



ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for TPS7H5005-SEP, Texas Instruments 4-V to 14-V, current mode, high speed radiation-tolerant PWM controller in Space Enhanced Plastic (SEP) optimized for DC-DC converters in space applications. The study was done to determine TID effects under high dose rate (HDR) up to 50 krad(Si). The results show that all samples passed within the specified limits up to 50 krad(Si).

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Trademarks

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1 Device Information

1.1 Product Description

The TPS7H5005-SEP is a radiation-tolerant, current mode, dual output PWM controller optimized for silicon (Si) and gallium nitride (GaN) based DC-DC converters in space applications. The switching frequency of the TPS7H5005-SEP can be configured from 100 kHz to 2 MHz while still maintaining a very low current consumption, which makes it ideal for fully exploiting the area reduction and high efficiency benefits of GaN based DC-DC converters. The device features integrated synchronous rectifier control outputs and dead-time programmability in order to target high efficiency and high performance topologies. In addition, the TPS7H5005-SEP supports single-ended converter topologies by providing the user flexibility to control the maximum duty cycle. The 0.613-V \pm 1% accurate internal reference allows design of high-current buck converters for FPGA core voltages.

The TPS7H5005-SEP can be driven using an external clock through the SYNC pin or run using its internal oscillator at a frequency programmed by the user. Other programmable features include the UVLO threshold, soft start, and slope compensation. The TPS7H5005-SEP is packaged in a very small 24-pin TSSOP (thin-shrink small outline package) package.

1.2 Device Details

Table 1-1 lists the device information used in the initial TID HDR characterization.

Table 1-1. Device and Exposure Details

TID Exposure Details	
TI Device	TPS7H5005-SEP
TI Part Name	TPS7H5005MPWTSEP
Package	24-pin TSSOP
Technology	LBC7
Quantity Tested	47
Lot Accept/Reject	All levels tested and passed up to 50 krad(Si)
HDR Radiation Facility	Texas Instruments - Dallas, TX
HDR Dose Level	20 krad(Si), 30 krad(Si), 50 krad(Si)
HDR Dose Rate	249.64 rads(Si)/s [247.52 to 253.16 rad(Si)/s]
HDR Radiation Source	Gammacell (Hopewell, GR420) Co-60
Irradiation Temperature	Ambient room temperature

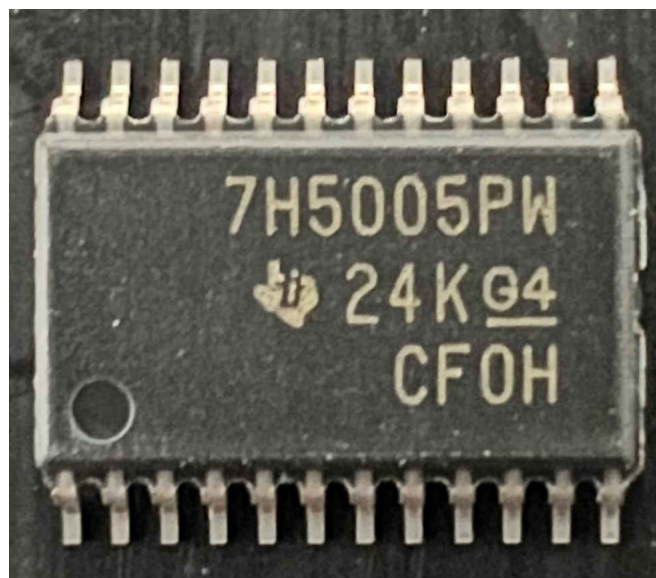


Figure 1-1. TPS7H5005-SEP Device

2 Total Dose Test Setup

2.1 Test Overview

The TPS7H5005-SEP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, Condition A was used. The product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production automated test equipment (ATE). All devices remained functional passing all parametric test limits.

2.2 Test Description and Facilities

The TPS7H5005-SEP HDR exposure was performed on biased and unbiased devices in a Co-60 gamma cell at TI facility in Dallas, Texas. The un-attenuated dose rate of this cell is 249.64 rads(Si)/s [247.52 to 253.16 rad(Si)/s]. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and full post-radiation electrical evaluation using Texas Instruments ATE was conducted. ATE test limits are set per data sheet electrical limits based on qualification and characterization data. Post-radiation measurements were taken within 30 minutes of removing 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 exposure were tested in two conditions, biased and unbiased, as described in the following.

2.3.1 Unbiased

For the unbiased HDR conditions, the exposure was performed with all pins grounded.

2.3.2 Biased

Figure 2-1 shows the diagram for HDR exposure with biased condition.

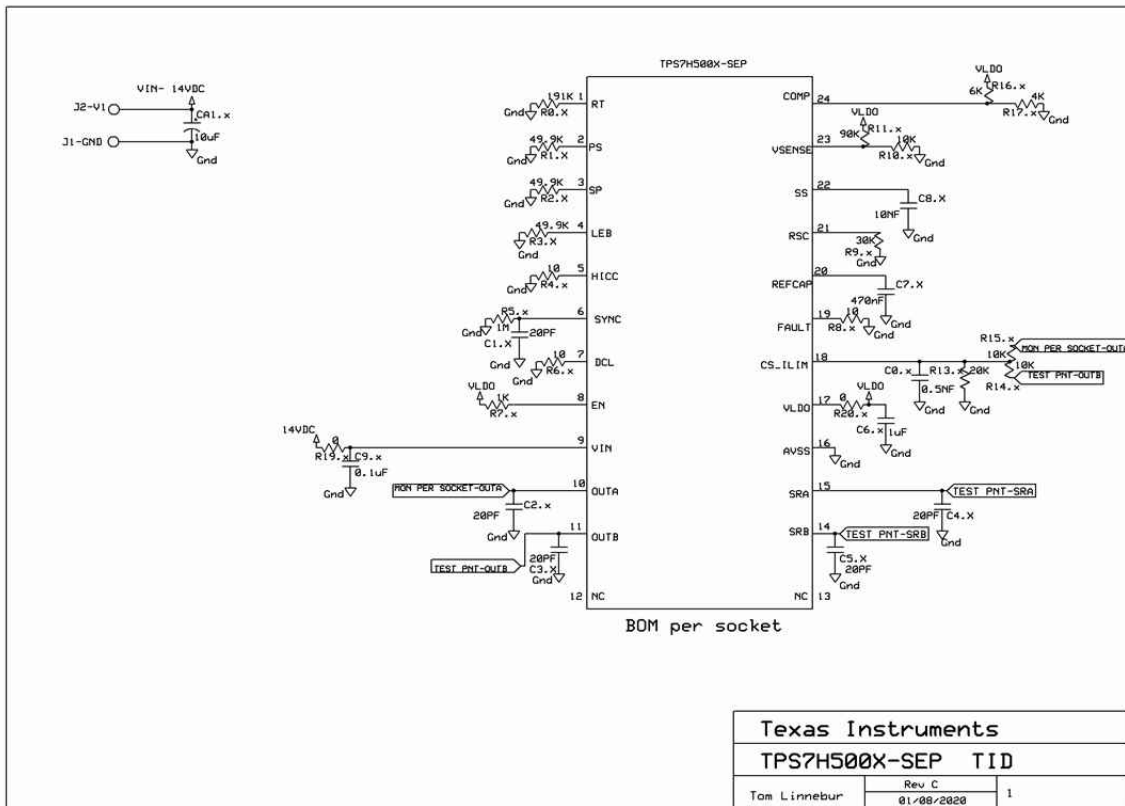


Figure 2-1. Bias Diagram Used in TID Exposure

2.4 Test Configuration and Condition

HDR devices were stressed at 20 krad(Si), 30 krad(Si), and 50 krad(Si) for biased and unbiased conditions.

Table 2-1. HDR: 20-krad(Si) to 50-krad(Si)/s Biased Device Information

Total Samples: 32		
Exposure Levels		
20 krad(Si)	30 krad(Si)	50 krad(Si)
1, 2, 3, 4, 5	11, 12, 13, 14, 15	21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42

Table 2-2. HDR: 20-krad(Si) to 50-krad(Si)/s Unbiased Device Information

Total Samples: 15		
Exposure Levels		
20 krad(Si)	30 krad(Si)	50 krad(Si)
6, 7, 8, 9, 10	16, 17, 18, 19, 20	43, 44, 45, 46, 47

3 TID Characterization Test Results

3.1 TID Characterization Summary Results

The parametric data for the TPS7H5005-SEP passes up to 50-krad(Si) HDR TID irradiation. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the TPS7H5005-SEP showed a strong degree of hardness to HDR TID irradiation up to 50 krad(Si) for both biased and unbiased exposure conditions. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level for both biased and unbiased. The parameters that did show a greater degree of change between pre- and post-irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters. See [TPS7H500x-SEP Radiation-Tolerant 2-MHz Current Mode PWM Controllers in Space Enhanced Plastic data sheet](#) for the data sheet electrical parameters and associated tests.

See [Appendix A](#) for specifications requiring clarification.

See [Appendix B](#) for HDR report up to 50 krad(Si).

3.2 Specification Compliance Matrix

Table 3-1. TPS7H5005-SEP Electrical Parameters Table

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
SUPPLY VOLTAGES AND CURRENTS						
IDD Operating supply current	$f_{SW} = 500$ kHz, No load for OUTA, OUTB, SRA, and SRB		6.25	8	mA	5.24 __IDD_ACT_500K_NOLOAD_4V, 5.25 __IDD_ACT_500K_NOLOAD_5V, 5.26 __IDD_ACT_500K_NOLOAD_12V, 5.27 __IDD_ACT_500K_NOLOAD_14V
	$f_{SW} = 1$ MHz, No load for OUTA, OUTB, SRA, and SRB		6.75	9.5	mA	5.28 __IDD_ACT_1M_NOLOAD_4V, 5.29 __IDD_ACT_1M_NOLOAD_5V, 5.30 __IDD_ACT_1M_NOLOAD_12V, 5.31 __IDD_ACT_1M_NOLOAD_14V
	$f_{SW} = 2$ MHz, No load for OUTA, OUTB, SRA, and SRB		8.5	13.5	mA	5.36 __IDD_ACT_2M_NOLOAD_4V, 5.37 __IDD_ACT_2M_NOLOAD_5V, 5.38 __IDD_ACT_2M_NOLOAD_12V, 5.39 __IDD_ACT_2M_NOLOAD_14V
	$f_{SW} = 500$ kHz, $C_{LOAD} = 100$ pF for OUTA, OUTB, SRA, and SRB		7.5	9.5	mA	5.48 __IDD_ACT_500K_4V, 5.49 __IDD_ACT_500K_5V, 5.50 __IDD_ACT_500K_12V, 5.51 __IDD_ACT_500K_14V
	$f_{SW} = 1$ MHz, $C_{LOAD} = 100$ pF for OUTA, OUTB, SRA, and SRB		9	12	mA	5.52 __IDD_ACT_1M_4V, 5.53 __IDD_ACT_1M_5V, 5.54 __IDD_ACT_1M_12V, 5.55 __IDD_ACT_1M_14V
	$f_{SW} = 2$ MHz, $C_{LOAD} = 100$ pF for OUTA, OUTB, SRA, and SRB		14	19.5	mA	5.60 __IDD_ACT_2M_4V, 5.61 __IDD_ACT_2M_5V, 5.62 __IDD_ACT_2M_12V, 5.63 __IDD_ACT_2M_14V
I _{DD(dis)} Standby current	EN = 0 V			3	mA	5.1 __IDD_DIS_4V, 5.2 __IDD_DIS_5V, 5.3 __IDD_DIS_12V, 5.4 __IDD_DIS_14V
VLDO Internal linear regulator output voltage	5 V ≤ VIN ≤ 14 V, f _{sw} ≤ 1 MHz	4.75	5	5.2	V	5.65 __V_LDO_100K_5V, 5.66 __V_LDO_100K_12V, 5.67 __V_LDO_100K_14V, 5.69 __V_LDO_200K_5V, 5.70 __V_LDO_200K_12V, 5.71 __V_LDO_200K_14V, 5.73 __V_LDO_500K_5V, 5.74 __V_LDO_500K_12V, 5.75 __V_LDO_500K_14V, 5.77 __V_LDO_1M_5V, 5.78 __V_LDO_1M_12V, 5.79 __V_LDO_1M_14V
	5 V ≤ VIN ≤ 14 V, f _{sw} = 2 MHz	4.65	5	5.2	V	5.85 __V_LDO_2M_5V, 5.86 __V_LDO_2M_12V, 5.87 __V_LDO_2M_14V
ENABLE AND UNDERVOLTAGE LOCKOUT						
V _{ENR} EN threshold rising		0.57	0.6	0.65	V	6.5 __V_EN_RISE_4V, 6.8 __V_EN_RISE_5V, 6.11 __V_EN_RISE_12V, 6.14 __V_EN_RISE_14V
V _{ENF} EN threshold falling		0.47	0.5	0.55	V	6.6 __V_EN_FALL_4V, 6.9 __V_EN_FALL_5V, 6.12 __V_EN_FALL_12V, 6.15 __V_EN_FALL_14V
V _{ENH} EN hysteresis voltage		85	95	105	mV	6.7 __V_EN_HYS_4V, 6.10 __V_EN_HYS_5V, 6.13 __V_EN_HYS_12V, 6.16 __V_EN_HYS_14V
I _{EN} EN pin input leakage current	VIN = 14 V, EN = 5 V		5	50	nA	6.1 __I_EN_LEAK_4V, 6.2 __I_EN_LEAK_5V, 6.3 __I_EN_LEAK_12V, 6.4 __I_EN_LEAK_14V
VLDO _{UVLOR} VLDO UVLO rising		3.44	3.55	3.66	V	6.34 __UVLO_VLDO_RISE_1MHz, 6.37 __UVLO_VLDO_RISE_100kHz, 6.40 __UVLO_VLDO_RISE_200kHz, 6.43 __UVLO_VLDO_RISE_500kHz, 6.46 __UVLO_VLDO_RISE_2MHz
VLDO _{UVLOF} VLDO UVLO falling		3.29	3.4	3.51	V	6.35 __UVLO_VLDO_FALL_1MHz, 6.38 __UVLO_VLDO_FALL_100kHz, 6.41 __UVLO_VLDO_FALL_200kHz, 6.44 __UVLO_VLDO_FALL_500kHz, 6.47 __UVLO_VLDO_FALL_2MHz
VLDO _{UVLOH} VLDO UVLO hysteresis		115	135	160	mV	6.36 __UVLO_VLDO_HYS_1MHz, 6.39 __UVLO_VLDO_HYS_100kHz, 6.42 __UVLO_VLDO_HYS_200kHz, 6.45 __UVLO_VLDO_HYS_500kHz, 6.48 __UVLO_VLDO_HYS_2MHz
SOFT START						
I _{SS} Soft-start current	SS = 0.3 V	1.98	2.7	3.32	μA	7.1 __I_SS_4V, 7.3 __I_SS_5V, 7.5 __I_SS_12V, 7.7 __I_SS_14V
ERROR AMPLIFIER						
E _{A_{gm}} Transconductance	-2 μA < I _{COMP} < 2 μA, V _(COMP) = 1 V	1150	1800	2500	μA/V	8.9 __EA_GM_4V, 8.10 __EA_GM_5V, 8.11 __EA_GM_12V, 8.12 __EA_GM_14V

Table 3-1. TPS7H5005-SEP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
EA _{ISRC} Error amplifier source current	V _(COMP) = 1 V, 100-mV input overdrive	100		190	μA	8.13 __EA_I_SOURCE_4V, 8.14 __EA_I_SOURCE_5V, 8.15 __EA_I_SOURCE_12V, 8.16 __EA_I_SOURCE_14V
EA _{ISNK} Error amplifier sink current	V _(COMP) = 1 V, 100-mV input overdrive	100		190	μA	8.17 __EA_I_SINK_4V, 8.18 __EA_I_SINK_5V, 8.19 __EA_I_SINK_12V, 8.20 __EA_I_SINK_14V
EA _{OS} Error amplifier offset voltage		-2		2	mV	8.5 __EA_OS_4V, 8.6 __EA_OS_5V, 8.7 __EA_OS_12V, 8.8 __EA_OS_14V
OSCILLATOR						
SYNC _{RT} SYNC out low-to-high rise time (10%/90%)	C _{LOAD} = 25 pF		6	15	ns	9.1 __T_SYNC_RISE_100kHz_4V, 9.5 __T_SYNC_RISE_200kHz_4V, 9.9 __T_SYNC_RISE_500kHz_4V, 9.13 __T_SYNC_RISE_1MHz_4V, 9.17 __T_SYNC_RISE_1p5MHz_4V, 9.21 __T_SYNC_RISE_2MHz_4V, 9.25 __T_SYNC_RISE_100kHz_5V, 9.29 __T_SYNC_RISE_200kHz_5V, 9.33 __T_SYNC_RISE_500kHz_5V, 9.37 __T_SYNC_RISE_1MHz_5V, 9.41 __T_SYNC_RISE_1p5MHz_5V, 9.45 __T_SYNC_RISE_2MHz_5V, 9.49 __T_SYNC_RISE_100kHz_12V, 9.53 __T_SYNC_RISE_200kHz_12V, 9.57 __T_SYNC_RISE_500kHz_12V, 9.61 __T_SYNC_RISE_1MHz_12V, 9.65 __T_SYNC_RISE_1p5MHz_12V, 9.69 __T_SYNC_RISE_2MHz_12V, 9.73 __T_SYNC_RISE_100kHz_14V, 9.77 __T_SYNC_RISE_200kHz_14V, 9.81 __T_SYNC_RISE_500kHz_14V, 9.85 __T_SYNC_RISE_1MHz_14V, 9.89 __T_SYNC_RISE_1p5MHz_14V, 9.93 __T_SYNC_RISE_2MHz_14V
SYNC _{FT} SYNC out high-to-low fall time (10%/90%)	C _{LOAD} = 25 pF		6	17	ns	9.2 __T_SYNC_FALL_100kHz_4V, 9.14 __T_SYNC_FALL_1MHz_4V, 9.22 __T_SYNC_FALL_2MHz_4V, 9.26 __T_SYNC_FALL_100kHz_5V, 9.38 __T_SYNC_FALL_1MHz_5V, 9.46 __T_SYNC_FALL_2MHz_5V, 9.74 __T_SYNC_FALL_100kHz_14V, 9.86 __T_SYNC_FALL_1MHz_14V, 9.94 __T_SYNC_FALL_2MHz_14V
SYNC _{OL} SYNC out low level	I _{OL} = 10 mA			500	mV	9.186 __SYNC_VOL_4V, 9.187 __SYNC_VOL_5V, 9.188 __SYNC_VOL_12V, 9.189 __SYNC_VOL_14V
EXT _{DT} Externally set frequency detection time	RT = Open, f = 200 kHz			20	μs	9.185 __T_SYNC_DETECT
FSW _{EXT} Externally set frequency	RT = 1.07 MΩ	95	105	115	kHz	9.4 __FSW_EXT_RT_100kHz_4V, 9.28 __FSW_EXT_RT_100kHz_5V, 9.52 __FSW_EXT_RT_100kHz_12V, 9.76 __FSW_EXT_RT_100kHz_14V
	RT = 511 kΩ	190	210	230	kHz	9.8 __FSW_EXT_RT_200kHz_4V, 9.32 __FSW_EXT_RT_200kHz_5V, 9.56 __FSW_EXT_RT_200kHz_12V, 9.80 __FSW_EXT_RT_200kHz_14V
	RT = 90.9 kΩ	900	1000	1100	kHz	9.16 __FSW_EXT_RT_1MHz_4V, 9.40 __FSW_EXT_RT_1MHz_5V, 9.64 __FSW_EXT_RT_1MHz_12V, 9.88 __FSW_EXT_RT_1MHz_14V
	RT = 34.8 kΩ	1700	2000	2300	kHz	9.24 __FSW_EXT_RT_2MHz_4V, 9.48 __FSW_EXT_RT_2MHz_5V, 9.72 __FSW_EXT_RT_2MHz_12V, 9.96 __FSW_EXT_RT_2MHz_14V
VOLTAGE REFERENCE						
VREF Internal voltage reference initial tolerance	Measured at COMP, 25°C	0.609	0.613	0.615	V	8.1 __VREF_4V, 8.2 __VREF_5V, 8.3 __VREF_12V, 8.4 __VREF_14V

Table 3-1. TPS7H5005-SEP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
REFCAP REFCAP voltage	REFCAP = 470 nF	1.213	1.225	1.237	V	5.88 __V_REFCAP_100K_4V, 5.89 __V_REFCAP_100K_5V, 5.90 __V_REFCAP_100K_12V, 5.91 __V_REFCAP_100K_14V, 5.92 __V_REFCAP_200K_4V, 5.93 __V_REFCAP_200K_5V, 5.94 __V_REFCAP_200K_12V, 5.95 __V_REFCAP_200K_14V, 5.96 __V_REFCAP_500K_4V, 5.97 __V_REFCAP_500K_5V, 5.98 __V_REFCAP_500K_12V, 5.99 __V_REFCAP_500K_14V, 5.100 __V_REFCAP_1M_4V, 5.101 __V_REFCAP_1M_5V, 5.102 __V_REFCAP_1M_12V, 5.103 __V_REFCAP_1M_14V, 5.104 __V_REFCAP_1P5M_4V, 5.105 __V_REFCAP_1P5M_5V, 5.106 __V_REFCAP_1P5M_12V, 5.107 __V_REFCAP_1P5M_14V, 5.108 __V_REFCAP_2M_4V, 5.109 __V_REFCAP_2M_5V, 5.110 __V_REFCAP_2M_12V, 5.111 __V_REFCAP_2M_14V
CURRENT SENSE, CURRENT LIMIT, AND HICCUF						
CCSR	COMP to CS_ILIM ratio	2.00	2.06	2.12		10.49 __CCSR_Ratio
V _{CS_ILIM} Current limit (over-current) threshold			1.05	1.09	V	10.1 __V_CS_ILIM_OC_Rise_4V, 10.3 __V_CS_ILIM_OC_Rise_5V, 10.5 __V_CS_ILIM_OC_Rise_12V, 10.7 __V_CS_ILIM_OC_Rise_14V
FAULT						
V _{FLTR} FLT threshold rising		0.57	0.6	0.65	V	12.1 __V_FAULT_RISE_4V, 12.4 __V_FAULT_RISE_5V, 12.7 __V_FAULT_RISE_12V, 12.10 __V_FAULT_RISE_14V
V _{FLTF} FLT threshold falling		0.47	0.5	0.55	V	12.2 __V_FAULT_FALL_4V, 12.5 __V_FAULT_FALL_5V, 12.8 __V_FAULT_FALL_12V, 12.11 __V_FAULT_FALL_14V
V _{FLTH} FLT hysteresis voltage		90	100	110	mV	12.3 __V_FAULT_HYS_4V, 12.6 __V_FAULT_HYS_5V, 12.9 __V_FAULT_HYS_12V, 12.12 __V_FAULT_HYS_14V
T _{FLT} FLT minimum pulse width	V _{FLT} = 1 V	0.4		1.4	μs	12.14 __T_FAULT_MIN
t _{DFLT} FLT delay duration	f _{sw} = 100 kHz	140	152	169	μs	12.15 __T_FAULT_DELAY_100kHz
	f _{sw} = 200 kHz	66	78	86	μs	12.17 __T_FAULT_DELAY_200kHz
	f _{sw} = 1 MHz	14	17	21	μs	12.21 __T_FAULT_DELAY_1MHz
	f _{sw} = 2 MHz	7	11	14	μs	12.23 __T_FAULT_DELAY_2MHz
PRIMARY AND SYNCHRONOUS RECTIFIER OUTPUTS						
Rise/fall time	R _{LOAD} = 50 kΩ, C _{LOAD} = 100 pF, 10% to 90%		10	17	ns	13.1 __OUTA_RISE_1MHz_4V, 13.9 __OUTA_RISE_1MHz_5V, 13.17 __OUTA_RISE_1MHz_12V, 13.25 __OUTA_RISE_1MHz_14V, 13.3 __OUTA_FALL_1MHz_4V, 13.11 __OUTA_FALL_1MHz_5V, 13.19 __OUTA_FALL_1MHz_12V, 13.27 __OUTA_FALL_1MHz_14V, 13.2 __OUTB_RISE_1MHz_4V, 13.10 __OUTB_RISE_1MHz_5V, 13.18 __OUTB_RISE_1MHz_12V, 13.26 __OUTB_RISE_1MHz_14V, 13.4 __OUTB_FALL_1MHz_4V, 13.12 __OUTB_FALL_1MHz_5V, 13.20 __OUTB_FALL_1MHz_12V, 13.28 __OUTB_FALL_1MHz_14V
t _{MIN} Minimum on-time LEB = 10 kΩ	LEB = 10 kΩ, 5 V ≤ VIN ≤ 14 V			85	ns	13.145 __OUT_T_ON_MIN

Table 3-1. TPS7H5005-SEP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
TD _{PS} Primary off to secondary on dead time	PS = floating, 5 V ≤ VIN ≤ 14 V, 90% of OUTx falling edge to 10% of SRx rising edge with OUTx and SRx floating	5	8	11	ns	13.37 __PSA_DT_0ns_1M_5V, 13.38 __PSB_DT_0ns_1M_5V, 13.41 __PSA_DT_0ns_1M_12V, 13.42 __PSB_DT_0ns_1M_12V, 13.45 __PSA_DT_0ns_1M_14V, 13.46 __PSB_DT_0ns_1M_14V
	PS = 49.9 kΩ, 5 V ≤ VIN ≤ 14 V, 90% of OUTx falling edge to 10% of SRx rising edge with OUTx and SRx floating	43	50	55	ns	13.53 __PSA_DT_50ns_1M_5V, 13.54 __PSB_DT_50ns_1M_5V, 13.57 __PSA_DT_50ns_1M_12V, 13.58 __PSB_DT_50ns_1M_12V, 13.61 __PSA_DT_50ns_1M_14V, 13.62 __PSB_DT_50ns_1M_14V
	PS = 107 kΩ, 5 V ≤ VIN ≤ 14 V, 90% of OUTx falling edge to 10% of SRx rising edge with OUTx and SRx floating	85	100	110	ns	13.69 __PSA_DT_100ns_1M_5V, 13.70 __PSB_DT_100ns_1M_5V, 13.73 __PSA_DT_100ns_1M_12V, 13.74 __PSB_DT_100ns_1M_12V, 13.77 __PSA_DT_100ns_1M_14V, 13.78 __PSB_DT_100ns_1M_14V
TD _{SP} Secondary off to primary on dead time	SP = floating, 5 V ≤ VIN ≤ 14 V, 90% of SRx falling edge to 10% of OUTx rising edge with OUTx and SRx floating	5	8	11	ns	13.39 __SPA_DT_0ns_1M_5V, 13.40 __SPB_DT_0ns_1M_5V, 13.43 __SPA_DT_0ns_1M_12V, 13.44 __SPB_DT_0ns_1M_12V, 13.47 __SPA_DT_0ns_1M_14V, 13.48 __SPB_DT_0ns_1M_14V
	SP = 49.9 kΩ, 5 V ≤ VIN ≤ 14 V, 90% of SRx falling edge to 10% of OUTx rising edge with OUTx and SRx floating	43	50	55	ns	13.55 __SPA_DT_50ns_1M_5V, 13.56 __SPB_DT_50ns_1M_5V, 13.59 __SPA_DT_50ns_1M_12V, 13.60 __SPB_DT_50ns_1M_12V, 13.63 __SPA_DT_50ns_1M_14V, 13.64 __SPB_DT_50ns_1M_14V
	SP = 100 kΩ, 5 V ≤ VIN ≤ 14 V, 90% of SRx falling edge to 10% of OUTx rising edge with OUTx and SRx floating	85	100	110	ns	13.71 __SPA_DT_100ns_1M_5V, 13.72 __SPB_DT_100ns_1M_5V, 13.75 __SPA_DT_100ns_1M_12V, 13.76 __SPB_DT_100ns_1M_12V, 13.79 __SPA_DT_100ns_1M_14V, 13.80 __SPB_DT_100ns_1M_14V
DUTY CYCLE						
D _{MAX} Maximum duty cycle	DCL = AVSS	45	48	50	%	13.160 __MAX_DC_DCL_AVSS
	DCL = floating	70	75	80	%	13.163 __MAX_DC_DCL_OPEN
	DCL =VLDO			100	%	13.166 __MAX_DC_DCL_VLDO

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [TPS7H500x-SEP Radiation-Tolerant 2-MHz Current Mode PWM Controllers in Space Enhanced Plastic data sheet](#)
- Texas Instruments, [TPS7H500xEVM Evaluation Module \(EVM\) user's guide](#)

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.

5 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision * (June 2022) to Revision A (July 2022)	Page
• Changed device name from PTPS7H5005MPWSEP to TPS7H5005MPWTSEP.....	2

A Appendix: Specifications Requiring Clarification

Table A-1. Specifications Requiring Clarification - Set #1

Data sheet specifications for which parametric data is unavailable were not included in the TID report. Functionality assured by ATE testing.

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET			
		MIN	TYP	MAX	UNIT
V _{IN} Operating voltage		4		14	V
F _{SYNC} SYNC in frequency range		200		4000	kHz
D _{SYNC} SYNC in duty cycle	Duty cycle of external clock	40		60	%

Table A-2. Specifications Requiring Clarification - Set #2

Data sheet specifications verified by bench testing were not included in the TID report. TID testing was by ATE.

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET			
		MIN	TYP	MAX	UNIT
E _{A_{DC}} DC gain	V _{SENSE} = 0.6 V		10000		V/V
E _{A_{r_o}} Error amplifier output resistance			7		MΩ
E _{A_{I_B}} Error amplifier bias current				35	nA
E _{A_{BW}} Bandwidth			10		MHz
S _{Y_NC_{I_L}} SYNC in low-level	V _{IN} < 5 V			0.8	V
	V _{IN} ≥ 5 V			0.8	
S _{Y_NC_{I_H}} SYNC in high-level	V _{IN} < 5 V		3.5		V
	V _{IN} ≥ 5 V		3.5		
(V _{LDO} - S _{Y_NC_{O_H}}) SYNC out high level	I _{O_H} = 10 mA			0.5	V

Table A-3. Specifications Requiring Clarification - Set #3

Data sheet specifications for which *MIN* and *MAX* values are unavailable were not included in the TID report. Functionality assured by ATE testing.

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET			
		MIN	TYP	MAX	UNIT
I _{HICC_DEL} Hiccup delay current	CS _{LIM} = 1.3 V, COMP = 3 V, V _{SENSE} = REFCAP/2 V, C _{HICC} = 3 nF, LEB = 49.9 kΩ, f _{SW} = 100 kHz		80		μA
I _{HICC_RST} Hiccup restart current			1		μA
V _{HICC_PU} Hiccup pull-up threshold			1.0		V
V _{HICC_SD} Hiccup shut-down threshold			0.6		V
V _{HICC_RS} T Hiccup restart threshold			0.3		V
Slope compensation	f _{SW} = 100 kHz, RSC = 1.18 MΩ		0.033		V/μs
	f _{SW} = 200 kHz, RSC = 562 kΩ		0.066		
	f _{SW} = 1000 kHz, RSC = 100 kΩ		0.333		
	f _{SW} = 2000 kHz, RSC = 49.9 kΩ		0.666		

Table A-3. Specifications Requiring Clarification - Set #3 (continued)

Data sheet specifications for which *MIN* and *MAX* values are unavailable were not included in the TID report. Functionality assured by ATE testing.

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET			
		MIN	TYP	MAX	UNIT
PRIMARY AND SYNCHRONOUS RECTIFIER OUTPUTS					
Low-level threshold	$I_{\text{SINK}} = 10 \text{ mA}$		0.5		V
High-level threshold	$I_{\text{SOURCE}} = 10 \text{ mA}$		4.5		V
R _{SRC_P} Output source resistance	$I_{\text{OUT}} = 20 \text{ mA}$		15		Ω
R _{SINK_P} Output sink resistance	$I_{\text{OUT}} = 20 \text{ mA}$		15		Ω

Table A-4. Specifications Requiring Clarification - Set #4

Data sheet specifications for which temperature condition was other than 25°C were not included in the TID report. TID testing was at 25°C only.

PARAMETER	TEST CONDITION	TPS7H5005-SEP DATA SHEET			
		MIN	TYP	MAX	UNIT
VREF Internal voltage reference	Measured at COMP, -55°C	0.607	0.609	0.612	V
	Measured at COMP, +125°C	0.611	0.614	0.617	

B Appendix: HDR TID Report Data

This appendix contains the HDR TID report data.

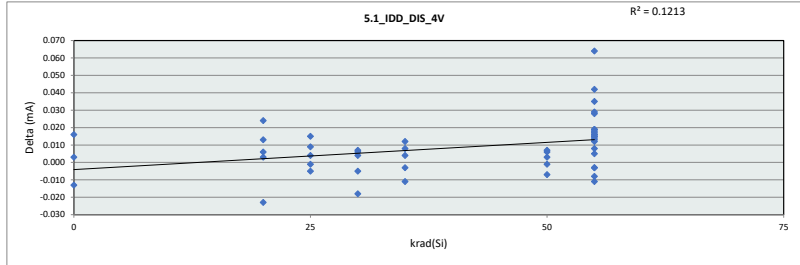
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

**HDR TID Report
TPS7H5005-SEP**

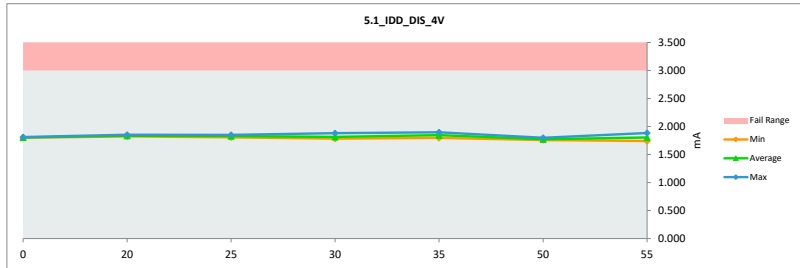
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.1 IDD_DIS_4V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	3
Min Limit	3



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.801	1.804	0.003
0	51	1.797	1.813	0.016
0	52	1.812	1.799	-0.013
25	1	1.812	1.807	-0.005
25	2	1.821	1.820	-0.001
25	3	1.824	1.833	0.009
25	4	1.828	1.843	0.015
25	5	1.847	1.851	0.004
20	6	1.829	1.853	0.024
20	7	1.817	1.830	0.013
20	8	1.845	1.848	0.003
20	9	1.847	1.824	-0.023
20	10	1.821	1.827	0.006
35	11	1.851	1.848	-0.003
35	12	1.845	1.834	-0.011
35	13	1.792	1.796	0.004
35	14	1.889	1.897	0.008
35	15	1.844	1.856	0.012
30	16	1.876	1.882	0.006
30	17	1.791	1.798	0.007
30	18	1.802	1.784	-0.018
30	19	1.805	1.809	0.004
30	20	1.807	1.802	-0.005
55	21	1.824	1.821	-0.003
55	22	1.811	1.825	0.014
55	23	1.796	1.824	0.028
55	24	1.777	1.782	0.005
55	25	1.838	1.880	0.042
55	26	1.781	1.810	0.029
55	27	1.785	1.782	-0.003
55	28	1.758	1.777	0.019
55	29	1.737	1.750	0.013
55	30	1.764	1.753	-0.011
55	31	1.729	1.741	0.012
55	32	1.867	1.885	0.018
55	33	1.816	1.851	0.035
55	34	1.803	1.867	0.064
55	35	1.755	1.747	-0.008
55	36	1.787	1.803	0.016
55	37	1.740	1.756	0.016
55	38	1.746	1.761	0.015
55	39	1.858	1.866	0.008
55	40	1.796	1.815	0.019
55	41	1.815	1.830	0.015
55	42	1.779	1.796	0.017
50	43	1.766	1.772	0.006
50	44	1.759	1.758	-0.001
50	45	1.772	1.765	-0.007
50	46	1.796	1.799	0.003
50	47	1.763	1.770	0.007
	Max	1.889	1.897	0.064
	Average	1.804	1.813	0.008
	Min	1.729	1.741	-0.023
	Std Dev	0.037	0.040	0.015

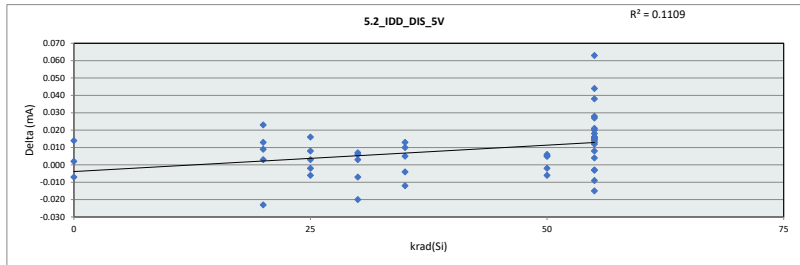
5.1 IDD_DIS_4V								
Test Site								
Tester								
Test Number								
Max Limit	3	mA						
Min Limit		mA						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	1.799	1.824	1.807	1.784	1.796	1.758	1.741	
Average	1.805	1.836	1.831	1.815	1.846	1.773	1.806	
Max	1.813	1.853	1.851	1.882	1.897	1.799	1.885	
UL	3.000	3.000	3.000	3.000	3.000	3.000	3.000	



**HDR TID Report
TPS7H5005-SEP**

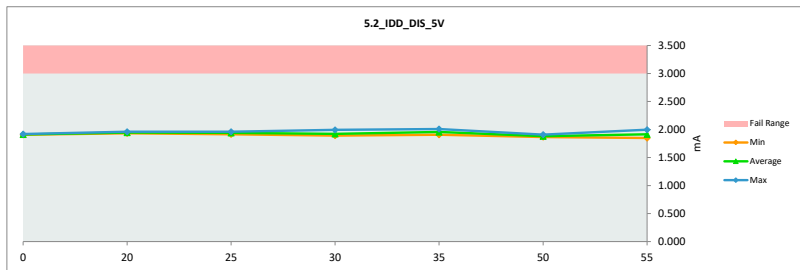
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.2_IDD_DIS_5V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	3
Min Limit	3



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.909	1.911	0.002
0	51	1.906	1.920	0.014
0	52	1.913	1.906	-0.007
25	1	1.922	1.916	-0.006
25	2	1.931	1.929	-0.002
25	3	1.935	1.943	0.008
25	4	1.938	1.954	0.016
25	5	1.959	1.962	0.003
20	6	1.939	1.962	0.023
20	7	1.926	1.939	0.013
20	8	1.955	1.958	0.003
20	9	1.956	1.933	-0.023
20	10	1.929	1.938	0.009
35	11	1.962	1.958	-0.004
35	12	1.957	1.945	-0.012
35	13	1.902	1.907	0.005
35	14	1.999	2.009	0.010
35	15	1.952	1.965	0.013
30	16	1.988	1.994	0.006
30	17	1.898	1.905	0.007
30	18	1.911	1.891	-0.020
30	19	1.916	1.919	0.003
30	20	1.917	1.910	-0.007
55	21	1.935	1.932	-0.003
55	22	1.923	1.936	0.013
55	23	1.907	1.934	0.027
55	24	1.884	1.888	0.004
55	25	1.946	1.990	0.044
55	26	1.890	1.918	0.028
55	27	1.895	1.892	-0.003
55	28	1.866	1.887	0.021
55	29	1.843	1.859	0.016
55	30	1.873	1.858	-0.015
55	31	1.837	1.849	0.012
55	32	1.978	1.996	0.018
55	33	1.925	1.963	0.038
55	34	1.914	1.977	0.063
55	35	1.865	1.856	-0.009
55	36	1.897	1.912	0.015
55	37	1.848	1.863	0.015
55	38	1.855	1.870	0.015
55	39	1.970	1.978	0.008
55	40	1.906	1.926	0.020
55	41	1.924	1.938	0.014
55	42	1.889	1.905	0.016
50	43	1.877	1.882	0.005
50	44	1.867	1.865	-0.002
50	45	1.879	1.873	-0.006
50	46	1.904	1.909	0.005
50	47	1.872	1.878	0.006
	Max	1.999	2.009	0.063
	Average	1.914	1.922	0.008
	Min	1.837	1.849	-0.023
	Std Dev	0.038	0.041	0.015

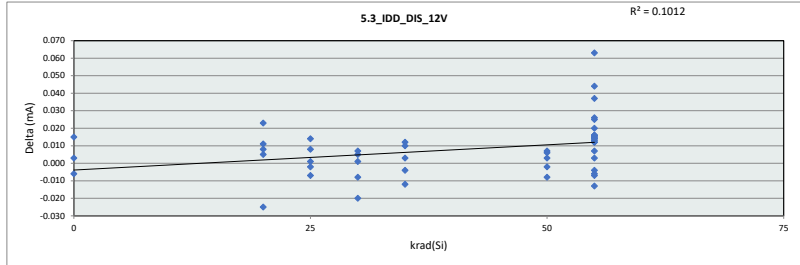
5.2_IDD_DIS_5V								
Test Site								
Tester								
Test Number								
Max Limit	3	mA						
Min Limit		mA						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	1.906	1.933	1.916	1.891	1.907	1.865	1.849	
Average	1.912	1.946	1.941	1.924	1.957	1.881	1.915	
Max	1.920	1.962	1.962	1.994	2.009	1.909	1.996	
UL	3.000	3.000	3.000	3.000	3.000	3.000	3.000	



**HDR TID Report
TPS7H5005-SEP**

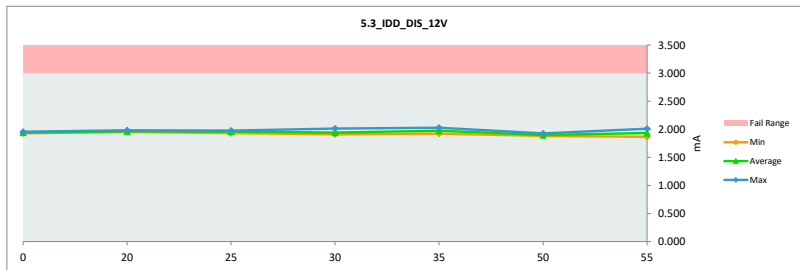
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.3_IDD_DIS_12V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	3
Min Limit	3



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.926	1.929	0.003
0	51	1.920	1.935	0.015
0	52	1.963	1.957	-0.006
25	1	1.937	1.930	-0.007
25	2	1.949	1.947	-0.002
25	3	1.955	1.963	0.008
25	4	1.959	1.973	0.014
25	5	1.977	1.978	0.001
20	6	1.959	1.982	0.023
20	7	1.945	1.956	0.011
20	8	1.975	1.980	0.005
20	9	1.977	1.952	-0.025
20	10	1.949	1.957	0.008
35	11	1.979	1.975	-0.004
35	12	1.977	1.965	-0.012
35	13	1.921	1.924	0.003
35	14	2.018	2.028	0.010
35	15	1.969	1.981	0.012
30	16	2.007	2.012	0.005
30	17	1.914	1.921	0.007
30	18	1.930	1.910	-0.020
30	19	1.938	1.939	0.001
30	20	1.936	1.928	-0.008
55	21	1.951	1.945	-0.006
55	22	1.939	1.951	0.012
55	23	1.926	1.951	0.025
55	24	1.902	1.905	0.003
55	25	1.964	2.008	0.044
55	26	1.907	1.933	0.026
55	27	1.913	1.909	-0.004
55	28	1.884	1.904	0.020
55	29	1.863	1.878	0.015
55	30	1.889	1.876	-0.013
55	31	1.854	1.866	0.012
55	32	1.995	2.011	0.016
55	33	1.946	1.983	0.037
55	34	1.934	1.997	0.063
55	35	1.884	1.877	-0.007
55	36	1.916	1.931	0.015
55	37	1.865	1.879	0.014
55	38	1.873	1.886	0.013
55	39	1.991	1.998	0.007
55	40	1.926	1.942	0.016
55	41	1.942	1.956	0.014
55	42	1.908	1.924	0.016
50	43	1.893	1.900	0.007
50	44	1.883	1.881	-0.002
50	45	1.897	1.889	-0.008
50	46	1.924	1.927	0.003
50	47	1.890	1.896	0.006
	Max	2.018	2.028	0.063
	Average	1.933	1.941	0.008
	Min	1.854	1.866	-0.025
	Std Dev	0.039	0.041	0.015

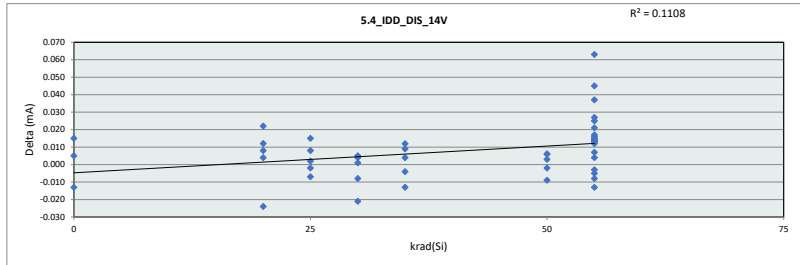
5.3_IDD_DIS_12V								
Test Site								
Tester								
Test Number								
Max Limit	3	mA						
Min Limit		mA						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	1.929	1.952	1.930	1.910	1.924	1.881	1.866	
Average	1.940	1.965	1.958	1.942	1.975	1.899	1.932	
Max	1.957	1.982	1.978	1.978	2.012	2.028	2.011	
UL	3.000	3.000	3.000	3.000	3.000	3.000	3.000	



**HDR TID Report
TPS7H5005-SEP**

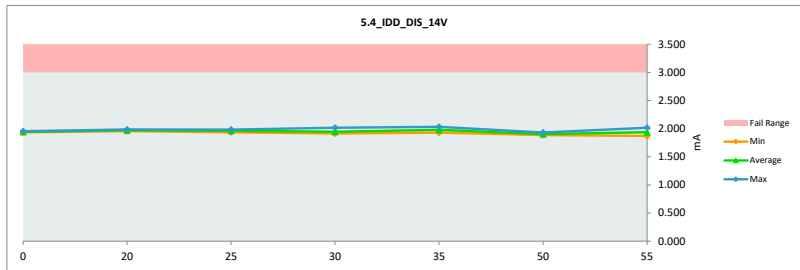
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.4_IDD_DIS_14V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	3
Min Limit	3



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.929	1.934	0.005
0	51	1.924	1.939	0.015
0	52	1.967	1.954	-0.013
25	1	1.941	1.934	-0.007
25	2	1.953	1.951	-0.002
25	3	1.959	1.967	0.008
25	4	1.963	1.978	0.015
25	5	1.981	1.983	0.002
20	6	1.964	1.986	0.022
20	7	1.948	1.960	0.012
20	8	1.980	1.984	0.004
20	9	1.981	1.957	-0.024
20	10	1.953	1.961	0.008
35	11	1.983	1.979	-0.004
35	12	1.981	1.968	-0.013
35	13	1.925	1.929	0.004
35	14	2.023	2.032	0.009
35	15	1.973	1.985	0.012
30	16	2.012	2.016	0.004
30	17	1.919	1.924	0.005
30	18	1.934	1.913	-0.021
30	19	1.942	1.943	0.001
30	20	1.940	1.932	-0.008
55	21	1.955	1.950	-0.005
55	22	1.944	1.957	0.013
55	23	1.930	1.955	0.025
55	24	1.905	1.909	0.004
55	25	1.968	2.013	0.045
55	26	1.911	1.938	0.027
55	27	1.917	1.914	-0.003
55	28	1.887	1.908	0.021
55	29	1.867	1.882	0.015
55	30	1.894	1.881	-0.013
55	31	1.858	1.870	0.012
55	32	1.998	2.015	0.017
55	33	1.951	1.988	0.037
55	34	1.939	2.002	0.063
55	35	1.889	1.881	-0.008
55	36	1.921	1.935	0.014
55	37	1.869	1.882	0.013
55	38	1.877	1.890	0.013
55	39	1.996	2.003	0.007
55	40	1.931	1.947	0.016
55	41	1.946	1.960	0.014
55	42	1.912	1.927	0.015
50	43	1.898	1.904	0.006
50	44	1.887	1.885	-0.002
50	45	1.902	1.893	-0.009
50	46	1.928	1.931	0.003
50	47	1.894	1.900	0.006
	Max	2.023	2.032	0.063
	Average	1.937	1.945	0.008
	Min	1.858	1.870	-0.024
	Std Dev	0.039	0.041	0.016

5.4_IDD_DIS_14V							
Test Site							
Tester							
Test Number							
Max Limit	3	mA					
Min Limit		mA					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	1.934	1.957	1.934	1.913	1.929	1.885	1.870
Average	1.942	1.970	1.963	1.946	1.979	1.903	1.937
Max	1.954	1.986	1.983	2.016	2.032	1.931	2.015
UL	3.000	3.000	3.000	3.000	3.000	3.000	3.000



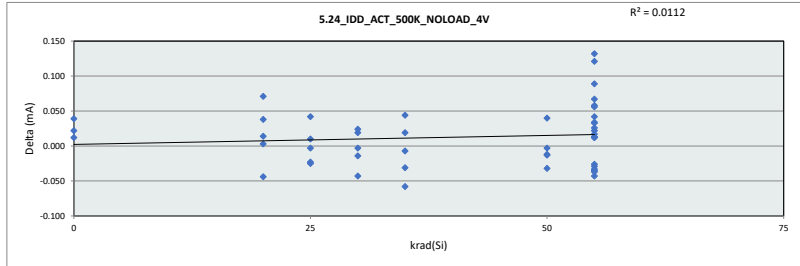
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.24_IDD_ACT_500K_NOLOAD

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

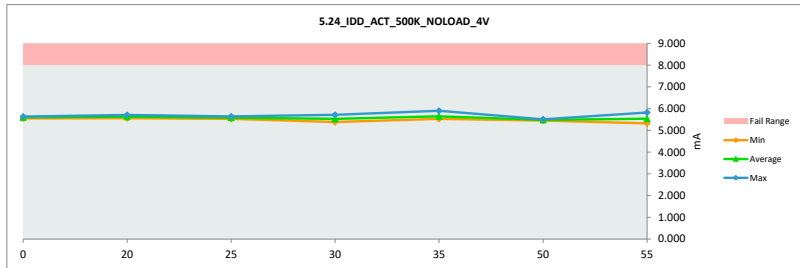
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.514	5.553	0.039
0	51	5.622	5.634	0.012
0	52	5.600	5.622	0.022
25	1	5.553	5.528	-0.025
25	2	5.576	5.553	-0.023
25	3	5.631	5.641	0.010
25	4	5.512	5.554	0.042
25	5	5.649	5.646	-0.003
20	6	5.606	5.677	0.071
20	7	5.669	5.707	0.038
20	8	5.602	5.616	0.014
20	9	5.639	5.595	-0.044
20	10	5.557	5.560	0.003
35	11	5.559	5.528	-0.031
35	12	5.684	5.626	-0.058
35	13	5.506	5.550	0.044
35	14	5.883	5.902	0.019
35	15	5.635	5.628	-0.007
30	16	5.729	5.715	-0.014
30	17	5.547	5.571	0.024
30	18	5.489	5.446	-0.043
30	19	5.526	5.545	0.019
30	20	5.385	5.382	-0.003
55	21	5.580	5.554	-0.026
55	22	5.566	5.579	0.013
55	23	5.576	5.610	0.034
55	24	5.439	5.406	-0.033
55	25	5.565	5.654	0.089
55	26	5.393	5.426	0.033
55	27	5.501	5.458	-0.043
55	28	5.459	5.501	0.042
55	29	5.351	5.322	-0.029
55	30	5.508	5.471	-0.037
55	31	5.369	5.382	0.013
55	32	5.763	5.819	0.056
55	33	5.574	5.706	0.132
55	34	5.493	5.614	0.121
55	35	5.406	5.371	-0.035
55	36	5.487	5.509	0.022
55	37	5.412	5.429	0.017
55	38	5.427	5.494	0.067
55	39	5.710	5.722	0.012
55	40	5.479	5.537	0.058
55	41	5.599	5.625	0.026
55	42	5.543	5.555	0.012
50	43	5.453	5.493	0.040
50	44	5.451	5.448	-0.003
50	45	5.530	5.498	-0.032
50	46	5.521	5.508	-0.013
50	47	5.479	5.467	-0.012
Max		5.883	5.902	0.132
Average		5.546	5.559	0.013
Min		5.351	5.322	-0.058
Std Dev		0.106	0.114	0.041



5.24_IDD_ACT_500K_NOLOAD

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	5.553	5.560	5.528	5.382	5.528	5.448	5.322
Average	5.603	5.631	5.584	5.532	5.647	5.483	5.534
Max	5.634	5.707	5.646	5.646	5.902	5.508	5.819
UL	8.000	8.000	8.000	8.000	8.000	8.000	8.000



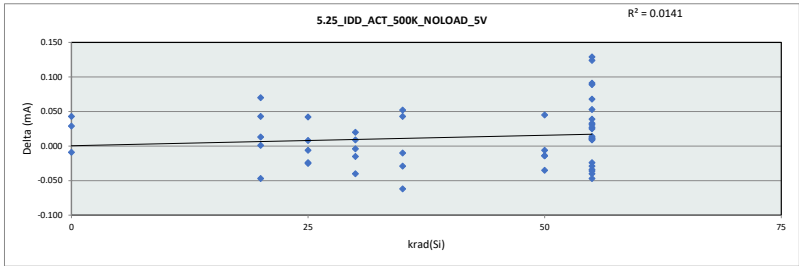
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.25_IDD_ACT_500K_NOLOAD

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

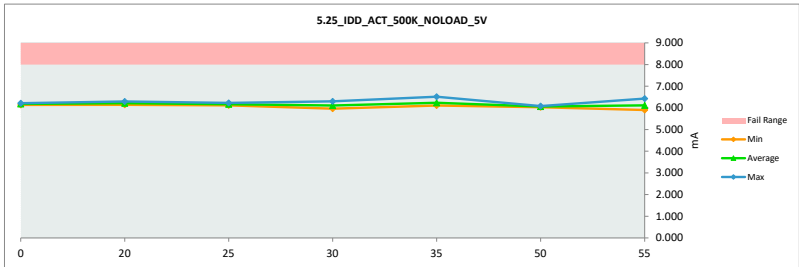
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.096	6.139	0.043
0	51	6.215	6.206	-0.009
0	52	6.186	6.215	0.029
25	1	6.139	6.114	-0.025
25	2	6.161	6.137	-0.024
25	3	6.218	6.226	0.008
25	4	6.095	6.137	0.042
25	5	6.235	6.229	-0.006
20	6	6.193	6.263	0.070
20	7	6.254	6.297	0.043
20	8	6.190	6.203	0.013
20	9	6.227	6.180	-0.047
20	10	6.141	6.142	0.001
35	11	6.138	6.109	-0.029
35	12	6.275	6.213	-0.062
35	13	6.089	6.132	0.043
35	14	6.464	6.516	0.052
35	15	6.221	6.211	-0.010
30	16	6.317	6.302	-0.015
30	17	6.126	6.146	0.020
30	18	6.064	6.024	-0.040
30	19	6.102	6.111	0.009
30	20	5.967	5.963	-0.004
55	21	6.159	6.135	-0.024
55	22	6.153	6.162	0.009
55	23	6.169	6.202	0.033
55	24	6.017	5.983	-0.034
55	25	6.147	6.238	0.091
55	26	5.974	6.005	0.031
55	27	6.085	6.038	-0.047
55	28	6.042	6.081	0.039
55	29	5.932	5.903	-0.029
55	30	6.100	6.060	-0.040
55	31	5.951	5.963	0.012
55	32	6.341	6.430	0.089
55	33	6.157	6.286	0.129
55	34	6.076	6.200	0.124
55	35	5.989	5.953	-0.036
55	36	6.067	6.094	0.027
55	37	5.996	6.010	0.014
55	38	6.010	6.078	0.068
55	39	6.297	6.307	0.010
55	40	6.062	6.115	0.053
55	41	6.183	6.208	0.025
55	42	6.127	6.138	0.011
50	43	6.034	6.079	0.045
50	44	6.035	6.029	-0.006
50	45	6.115	6.080	-0.035
50	46	6.098	6.084	-0.014
50	47	6.065	6.051	-0.014
	Max	6.464	6.516	0.129
	Average	6.130	6.143	0.013
	Min	5.932	5.903	-0.062
	Std Dev	0.107	0.119	0.043



5.25_IDD_ACT_500K_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	8
Min Limit	8

krad(Si)	0	20	25	30	35	50	55
LL							
Min	6.139	6.142	6.114	5.963	6.109	6.029	5.903
Average	6.187	6.217	6.169	6.109	6.236	6.065	6.118
Max	6.215	6.297	6.229	6.302	6.516	6.084	6.430
UL	8.000	8.000	8.000	8.000	8.000	8.000	8.000

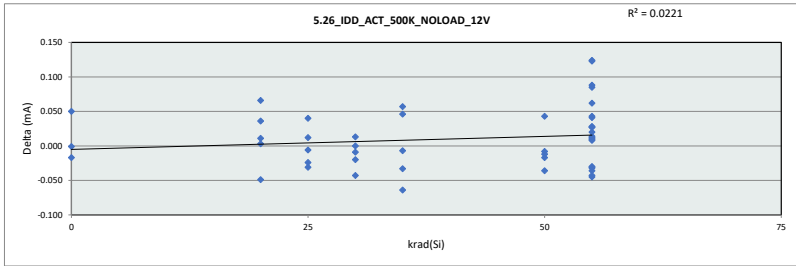


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.26_IDD_ACT_500K_NOLOAD

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

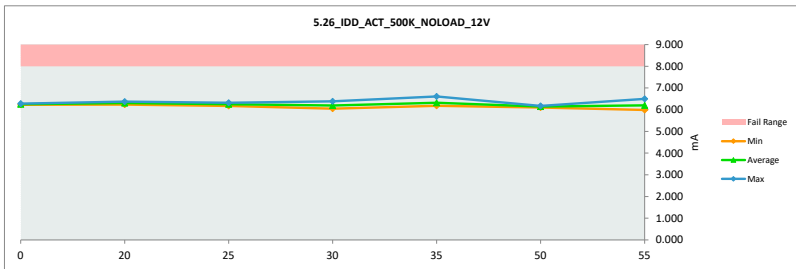


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.177	6.227	0.050
0	51	6.279	6.262	-0.017
0	52	6.280	6.279	-0.001
25	1	6.204	6.173	-0.031
25	2	6.244	6.220	-0.024
25	3	6.309	6.321	0.012
25	4	6.190	6.230	0.040
25	5	6.313	6.307	-0.006
20	6	6.287	6.353	0.066
20	7	6.337	6.373	0.036
20	8	6.290	6.301	0.011
20	9	6.319	6.270	-0.049
20	10	6.232	6.235	0.003
35	11	6.215	6.182	-0.033
35	12	6.368	6.304	-0.064
35	13	6.171	6.217	0.046
35	14	6.553	6.610	0.057
35	15	6.292	6.285	-0.007
30	16	6.405	6.385	-0.020
30	17	6.196	6.209	0.013
30	18	6.151	6.108	-0.043
30	19	6.204	6.204	0.000
30	20	6.055	6.046	-0.009
55	21	6.225	6.194	-0.031
55	22	6.225	6.236	0.011
55	23	6.252	6.279	0.027
55	24	6.097	6.054	-0.043
55	25	6.237	6.322	0.085
55	26	6.047	6.074	0.027
55	27	6.169	6.124	-0.045
55	28	6.118	6.159	0.041
55	29	6.020	5.988	-0.032
55	30	6.174	6.138	-0.036
55	31	6.025	6.039	0.014
55	32	6.409	6.497	0.088
55	33	6.254	6.378	0.124
55	34	6.168	6.291	0.123
55	35	6.079	6.049	-0.030
55	36	6.159	6.179	0.020
55	37	6.074	6.086	0.012
55	38	6.091	6.153	0.062
55	39	6.395	6.403	0.008
55	40	6.151	6.194	0.043
55	41	6.263	6.291	0.028
55	42	6.217	6.226	0.009
50	43	6.108	6.151	0.043
50	44	6.109	6.101	-0.008
50	45	6.198	6.162	-0.036
50	46	6.191	6.174	-0.017
50	47	6.151	6.139	-0.012
	Max	6.553	6.610	0.124
	Average	6.214	6.224	0.010
	Min	6.020	5.988	-0.064
	Std Dev	0.108	0.120	0.043

5.26_IDD_ACT_500K_NOLOAD

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	6.227	6.235	6.173	6.046	6.182	6.101	5.988
Average	6.256	6.306	6.250	6.190	6.320	6.145	6.198
Max	6.279	6.373	6.321	6.385	6.610	6.174	6.497
UL	8.000	8.000	8.000	8.000	8.000	8.000	8.000



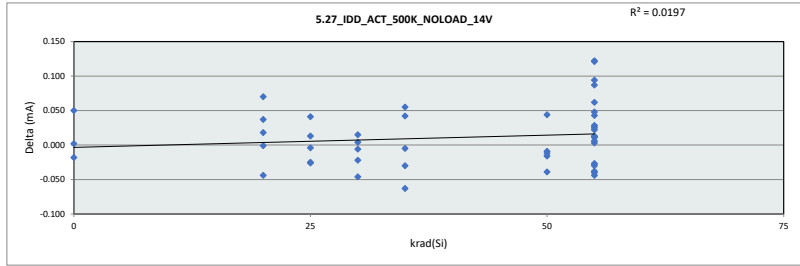
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.27_IDD_ACT_500K_NOLOAD

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

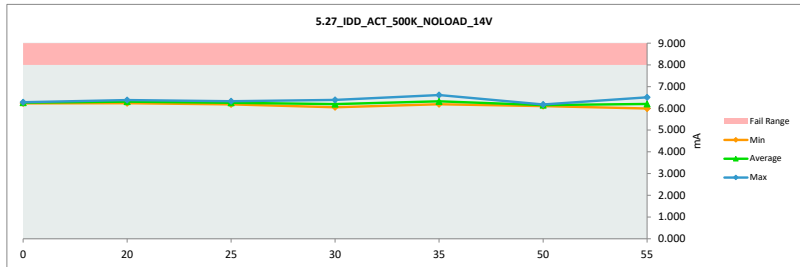
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.182	6.232	0.050
0	51	6.281	6.263	-0.018
0	52	6.283	6.285	0.002
25	1	6.207	6.181	-0.026
25	2	6.249	6.224	-0.025
25	3	6.313	6.326	0.013
25	4	6.193	6.234	0.041
25	5	6.317	6.313	-0.004
20	6	6.290	6.360	0.070
20	7	6.342	6.379	0.037
20	8	6.290	6.308	0.018
20	9	6.322	6.278	-0.044
20	10	6.238	6.237	-0.001
35	11	6.221	6.191	-0.030
35	12	6.370	6.307	-0.063
35	13	6.179	6.221	0.042
35	14	6.558	6.613	0.055
35	15	6.296	6.291	-0.005
30	16	6.409	6.387	-0.022
30	17	6.200	6.215	0.015
30	18	6.155	6.109	-0.046
30	19	6.208	6.212	0.004
30	20	6.056	6.050	-0.006
55	21	6.228	6.201	-0.027
55	22	6.229	6.240	0.011
55	23	6.258	6.286	0.028
55	24	6.101	6.061	-0.040
55	25	6.241	6.328	0.087
55	26	6.052	6.080	0.028
55	27	6.172	6.128	-0.044
55	28	6.120	6.163	0.043
55	29	6.024	5.994	-0.030
55	30	6.182	6.144	-0.038
55	31	6.031	6.043	0.012
55	32	6.412	6.506	0.094
55	33	6.259	6.381	0.122
55	34	6.173	6.294	0.121
55	35	6.082	6.055	-0.027
55	36	6.163	6.185	0.022
55	37	6.078	6.091	0.013
55	38	6.095	6.157	0.062
55	39	6.400	6.403	0.003
55	40	6.151	6.199	0.048
55	41	6.271	6.296	0.025
55	42	6.221	6.227	0.006
50	43	6.114	6.158	0.044
50	44	6.115	6.106	-0.009
50	45	6.205	6.166	-0.039
50	46	6.195	6.179	-0.016
50	47	6.154	6.142	-0.012
	Max	6.558	6.613	0.122
	Average	6.218	6.229	0.011
	Min	6.024	5.994	-0.063
	Std Dev	0.108	0.120	0.043



5.27_IDD_ACT_500K_NOLOAD

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	6.232	6.237	6.181	6.050	6.191	6.106	5.994
Average	6.260	6.312	6.256	6.195	6.325	6.150	6.203
Max	6.285	6.379	6.326	6.387	6.613	6.179	6.506
UL	8.000	8.000	8.000	8.000	8.000	8.000	8.000

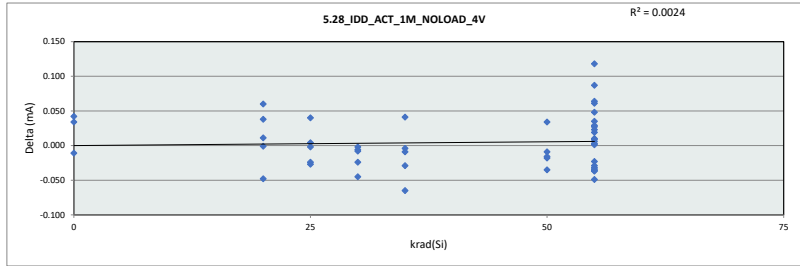


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.28_IDD_ACT_1M_NOLOAD_4V

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

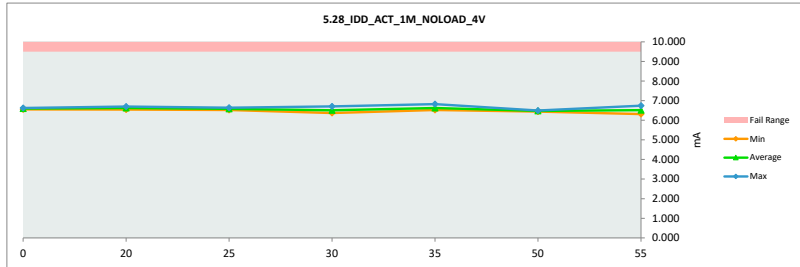


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.512	6.554	0.042
0	51	6.628	6.617	-0.011
0	52	6.594	6.628	0.034
25	1	6.551	6.527	-0.024
25	2	6.581	6.554	-0.027
25	3	6.634	6.638	0.004
25	4	6.511	6.551	0.040
25	5	6.641	6.639	-0.002
20	6	6.609	6.669	0.060
20	7	6.662	6.700	0.038
20	8	6.599	6.610	0.011
20	9	6.640	6.592	-0.048
20	10	6.549	6.548	-0.001
35	11	6.551	6.522	-0.029
35	12	6.686	6.621	-0.065
35	13	6.501	6.542	0.041
35	14	6.828	6.824	-0.004
35	15	6.627	6.618	-0.009
30	16	6.728	6.704	-0.024
30	17	6.534	6.526	-0.008
30	18	6.475	6.430	-0.045
30	19	6.510	6.508	-0.002
30	20	6.377	6.371	-0.006
55	21	6.573	6.544	-0.029
55	22	6.557	6.563	0.006
55	23	6.579	6.608	0.029
55	24	6.424	6.390	-0.034
55	25	6.559	6.646	0.087
55	26	6.388	6.415	0.027
55	27	6.505	6.456	-0.049
55	28	6.454	6.489	0.035
55	29	6.348	6.316	-0.032
55	30	6.507	6.470	-0.037
55	31	6.370	6.380	0.010
55	32	6.744	6.747	0.003
55	33	6.562	6.626	0.064
55	34	6.490	6.608	0.118
55	35	6.404	6.368	-0.036
55	36	6.481	6.504	0.023
55	37	6.412	6.421	0.009
55	38	6.426	6.487	0.061
55	39	6.703	6.680	-0.023
55	40	6.470	6.518	0.048
55	41	6.596	6.615	0.019
55	42	6.542	6.543	0.001
50	43	6.446	6.480	0.034
50	44	6.450	6.441	-0.009
50	45	6.533	6.498	-0.035
50	46	6.514	6.498	-0.016
50	47	6.487	6.469	-0.018
	Max	6.828	6.824	0.118
	Average	6.541	6.545	0.004
	Min	6.348	6.316	-0.065
	Std Dev	0.102	0.105	0.038

5.28_IDD_ACT_1M_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	9.5
Min Limit	9.5

krad(Si)	0	20	25	30	35	50	55
LL							
Min	6.554	6.548	6.527	6.371	6.522	6.441	6.316
Average	6.600	6.624	6.582	6.508	6.625	6.477	6.518
Max	6.628	6.700	6.639	6.704	6.824	6.498	6.747
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500



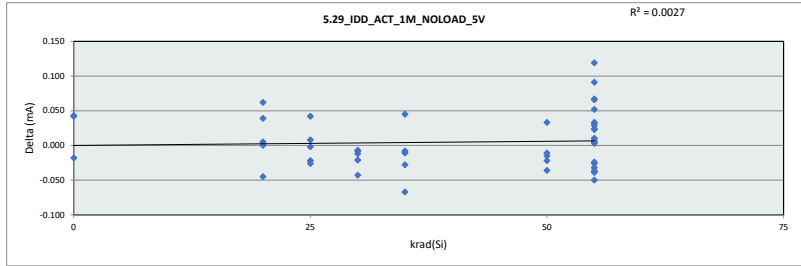
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.29_IDD_ACT_1M_NOLOAD_5V

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

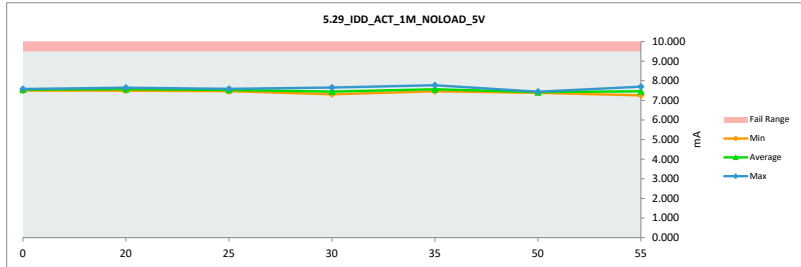
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.458	7.501	0.043
0	51	7.579	7.561	-0.018
0	52	7.537	7.579	0.042
25	1	7.495	7.473	-0.022
25	2	7.525	7.499	-0.026
25	3	7.579	7.587	0.008
25	4	7.460	7.502	0.042
25	5	7.587	7.585	-0.002
20	6	7.559	7.621	0.062
20	7	7.607	7.646	0.039
20	8	7.550	7.555	0.005
20	9	7.588	7.543	-0.045
20	10	7.491	7.491	0.000
35	11	7.491	7.463	-0.028
35	12	7.636	7.569	-0.067
35	13	7.441	7.486	0.045
35	14	7.780	7.772	-0.008
35	15	7.571	7.560	-0.011
30	16	7.676	7.655	-0.021
30	17	7.473	7.461	-0.012
30	18	7.409	7.366	-0.043
30	19	7.452	7.444	-0.008
30	20	7.317	7.310	-0.007
55	21	7.512	7.486	-0.026
55	22	7.499	7.504	0.005
55	23	7.529	7.558	0.029
55	24	7.364	7.327	-0.037
55	25	7.500	7.591	0.091
55	26	7.320	7.353	0.033
55	27	7.451	7.401	-0.050
55	28	7.394	7.426	0.032
55	29	7.287	7.255	-0.032
55	30	7.455	7.418	-0.037
55	31	7.310	7.320	0.010
55	32	7.698	7.701	0.003
55	33	7.507	7.574	0.067
55	34	7.433	7.552	0.119
55	35	7.345	7.306	-0.039
55	36	7.423	7.446	0.023
55	37	7.353	7.363	0.010
55	38	7.368	7.434	0.066
55	39	7.658	7.634	-0.024
55	40	7.409	7.461	0.052
55	41	7.541	7.565	0.024
55	42	7.484	7.490	0.006
50	43	7.394	7.427	0.033
50	44	7.394	7.383	-0.011
50	45	7.477	7.441	-0.036
50	46	7.453	7.438	-0.015
50	47	7.441	7.419	-0.022
Max		7.780	7.772	0.119
Average		7.485	7.490	0.005
Min		7.287	7.255	-0.067
Std Dev		0.106	0.108	0.039



5.29_IDD_ACT_1M_NOLOAD_5V

Test Site	
Tester	
Test Number	
Max Limit	9.5
Min Limit	9.5

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.501	7.491	7.473	7.310	7.463	7.383	7.255
Average	7.547	7.571	7.529	7.447	7.570	7.422	7.462
Max	7.579	7.646	7.587	7.655	7.772	7.441	7.701
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500

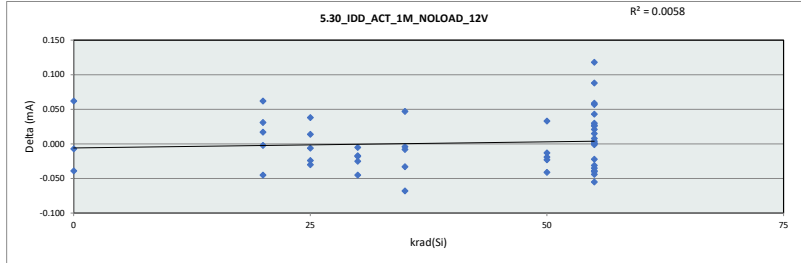


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.30_IDD_ACT_1M_NOLOAD_12V

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

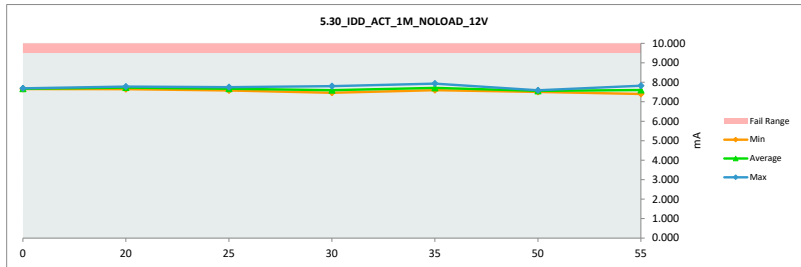


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.595	7.657	0.062
0	51	7.693	7.654	-0.039
0	52	7.700	7.693	-0.007
25	1	7.609	7.579	-0.030
25	2	7.669	7.645	-0.024
25	3	7.737	7.751	0.014
25	4	7.621	7.659	0.038
25	5	7.728	7.722	-0.006
20	6	7.718	7.780	0.062
20	7	7.752	7.783	0.031
20	8	7.710	7.727	0.017
20	9	7.744	7.699	-0.045
20	10	7.647	7.645	-0.002
35	11	7.625	7.592	-0.033
35	12	7.794	7.726	-0.068
35	13	7.584	7.631	0.047
35	14	7.935	7.931	-0.004
35	15	7.698	7.690	-0.008
30	16	7.824	7.799	-0.025
30	17	7.594	7.576	-0.018
30	18	7.558	7.513	-0.045
30	19	7.625	7.608	-0.017
30	20	7.465	7.460	-0.005
55	21	7.628	7.593	-0.035
55	22	7.628	7.629	0.001
55	23	7.674	7.695	0.021
55	24	7.498	7.454	-0.044
55	25	7.650	7.738	0.088
55	26	7.448	7.474	0.026
55	27	7.604	7.549	-0.055
55	28	7.531	7.561	0.030
55	29	7.439	7.400	-0.039
55	30	7.594	7.554	-0.040
55	31	7.440	7.448	0.008
55	32	7.823	7.822	-0.001
55	33	7.675	7.734	0.059
55	34	7.590	7.708	0.118
55	35	7.499	7.468	-0.031
55	36	7.577	7.592	0.015
55	37	7.489	7.493	0.004
55	38	7.507	7.564	0.057
55	39	7.825	7.803	-0.022
55	40	7.558	7.601	0.043
55	41	7.678	7.705	0.027
55	42	7.638	7.639	0.001
50	43	7.523	7.556	0.033
50	44	7.523	7.504	-0.019
50	45	7.626	7.585	-0.041
50	46	7.613	7.590	-0.023
50	47	7.582	7.569	-0.013
	Max	7.935	7.931	0.118
	Average	7.630	7.631	0.001
	Min	7.439	7.400	-0.068
	Std Dev	0.109	0.112	0.039

5.30_IDD_ACT_1M_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	9.5
Min Limit	9.5

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.654	7.645	7.579	7.460	7.592	7.504	7.400
Average	7.668	7.727	7.671	7.591	7.714	7.561	7.601
Max	7.693	7.783	7.751	7.799	7.931	7.590	7.822
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500

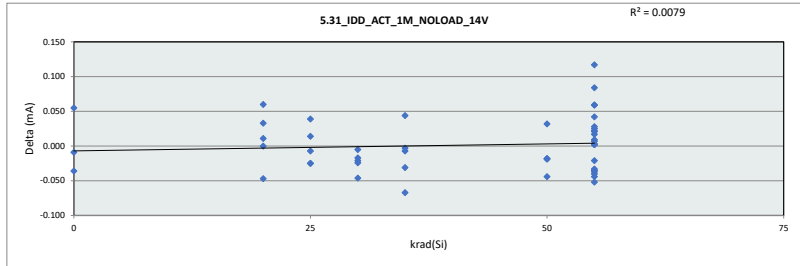


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.31_IDD_ACT_1M_NOLOAD_14V

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

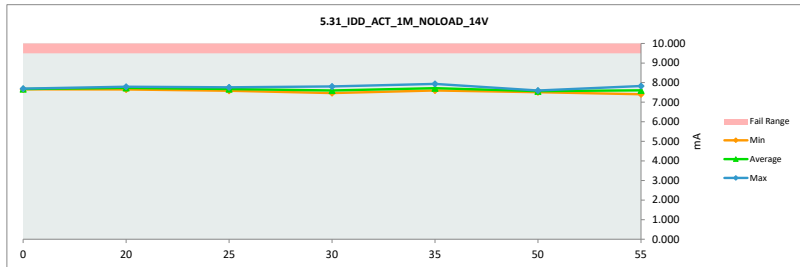


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.603	7.658	0.055
0	51	7.697	7.661	-0.036
0	52	7.706	7.697	-0.009
25	1	7.610	7.585	-0.025
25	2	7.673	7.648	-0.025
25	3	7.743	7.757	0.014
25	4	7.624	7.663	0.039
25	5	7.732	7.725	-0.007
20	6	7.724	7.784	0.060
20	7	7.756	7.789	0.033
20	8	7.718	7.729	0.011
20	9	7.752	7.705	-0.047
20	10	7.651	7.651	0.000
35	11	7.630	7.599	-0.031
35	12	7.798	7.731	-0.067
35	13	7.591	7.635	0.044
35	14	7.937	7.934	-0.003
35	15	7.702	7.695	-0.007
30	16	7.828	7.804	-0.024
30	17	7.600	7.579	-0.021
30	18	7.561	7.515	-0.046
30	19	7.630	7.613	-0.017
30	20	7.469	7.464	-0.005
55	21	7.633	7.598	-0.035
55	22	7.631	7.633	0.002
55	23	7.678	7.699	0.021
55	24	7.501	7.457	-0.044
55	25	7.656	7.740	0.084
55	26	7.454	7.479	0.025
55	27	7.604	7.552	-0.052
55	28	7.535	7.563	0.028
55	29	7.443	7.406	-0.037
55	30	7.598	7.558	-0.040
55	31	7.444	7.453	0.009
55	32	7.828	7.830	0.002
55	33	7.678	7.737	0.059
55	34	7.597	7.714	0.117
55	35	7.504	7.471	-0.033
55	36	7.580	7.597	0.017
55	37	7.493	7.500	0.007
55	38	7.513	7.572	0.059
55	39	7.828	7.807	-0.021
55	40	7.564	7.606	0.042
55	41	7.684	7.706	0.022
55	42	7.641	7.644	0.003
50	43	7.526	7.558	0.032
50	44	7.528	7.510	-0.018
50	45	7.631	7.587	-0.044
50	46	7.615	7.597	-0.018
50	47	7.593	7.574	-0.019
	Max	7.937	7.934	0.117
	Average	7.634	7.635	0.001
	Min	7.443	7.406	-0.067
	Std Dev	0.109	0.112	0.038

5.31_IDD_ACT_1M_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	9.5
Min Limit	9.5

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.658	7.651	7.585	7.464	7.599	7.510	7.406
Average	7.672	7.732	7.676	7.595	7.719	7.565	7.606
Max	7.697	7.789	7.757	7.804	7.934	7.597	7.830
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500



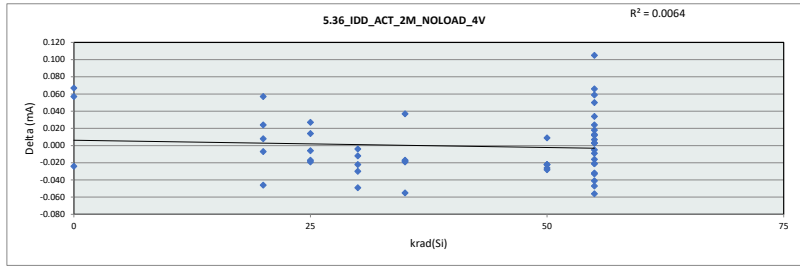
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.36_IDD_ACT_2M_NOLOAD_4V

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

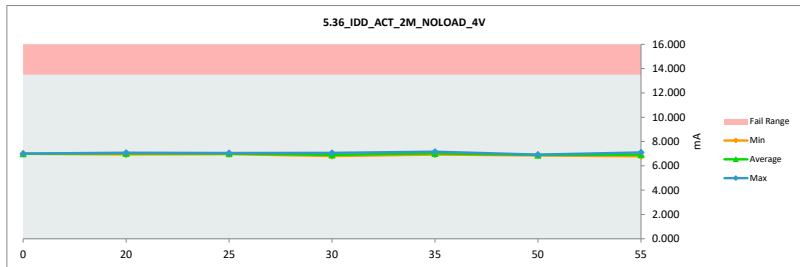
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.943	7.000	0.057
0	51	7.014	6.990	-0.024
0	52	6.947	7.014	0.067
25	1	6.979	6.962	-0.017
25	2	7.017	6.998	-0.019
25	3	7.046	7.060	0.014
25	4	6.940	6.967	0.027
25	5	7.065	7.059	-0.006
20	6	7.008	7.065	0.057
20	7	7.053	7.077	0.024
20	8	7.012	7.020	0.008
20	9	7.039	6.993	-0.046
20	10	6.950	6.943	-0.007
35	11	6.945	6.928	-0.017
35	12	7.078	7.023	-0.055
35	13	6.912	6.949	0.037
35	14	7.184	7.165	-0.019
35	15	7.082	7.064	-0.018
30	16	7.094	7.072	-0.022
30	17	6.942	6.912	-0.030
30	18	6.856	6.807	-0.049
30	19	6.900	6.896	-0.004
30	20	6.831	6.819	-0.012
55	21	6.955	6.923	-0.032
55	22	6.956	6.951	-0.005
55	23	7.028	7.031	0.003
55	24	6.851	6.810	-0.041
55	25	6.948	7.014	0.066
55	26	6.783	6.796	0.013
55	27	6.909	6.853	-0.056
55	28	6.859	6.862	0.003
55	29	6.809	6.788	-0.021
55	30	6.978	6.931	-0.047
55	31	6.854	6.845	-0.009
55	32	7.092	7.099	0.007
55	33	6.938	6.988	0.050
55	34	6.889	6.994	0.105
55	35	6.834	6.801	-0.033
55	36	6.885	6.897	0.012
55	37	6.825	6.849	0.024
55	38	6.867	6.926	0.059
55	39	7.068	7.047	-0.021
55	40	6.872	6.906	0.034
55	41	7.005	7.023	0.018
55	42	6.960	6.944	-0.016
50	43	6.880	6.889	0.009
50	44	6.874	6.852	-0.022
50	45	6.941	6.913	-0.028
50	46	6.919	6.897	-0.022
50	47	6.951	6.925	-0.026
Max	7.184	7.165	0.105	
Average	6.951	6.951	-0.001	
Min	6.783	6.788	-0.056	
Std Dev	0.088	0.090	0.036	



5.36_IDD_ACT_2M_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	13.5 mA
Min Limit	

krad(Si)	0	20	25	30	35	50	55
LL							
Min	6.990	6.943	6.962	6.807	6.928	6.852	6.788
Average	7.001	7.020	7.009	6.901	7.026	6.895	6.922
Max	7.014	7.077	7.060	7.072	7.165	6.925	7.099
UL	13.500	13.500	13.500	13.500	13.500	13.500	13.500



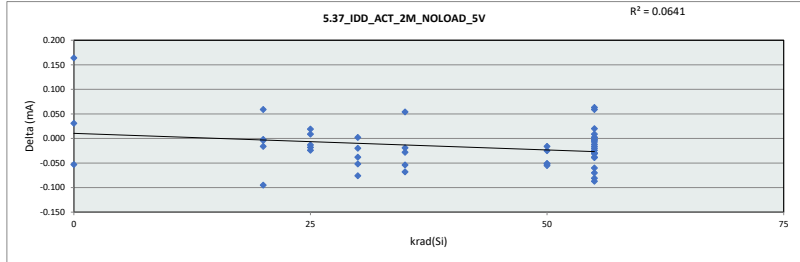
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.37_IDD_ACT_2M_NOLOAD_5V

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

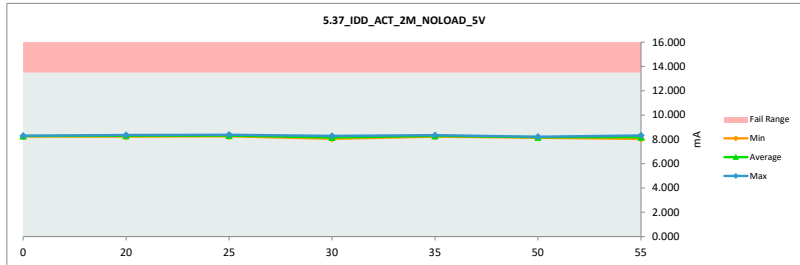
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.251	8.282	0.031
0	51	8.297	8.244	-0.053
0	52	8.133	8.297	0.164
25	1	8.281	8.257	-0.024
25	2	8.314	8.296	-0.018
25	3	8.358	8.377	0.019
25	4	8.266	8.275	0.009
25	5	8.381	8.368	-0.013
20	6	8.297	8.356	0.059
20	7	8.363	8.347	-0.016
20	8	8.320	8.318	-0.002
20	9	8.355	8.260	-0.095
20	10	8.234	8.230	-0.004
35	11	8.245	8.226	-0.019
35	12	8.371	8.303	-0.068
35	13	8.189	8.243	0.054
35	14	8.398	8.344	-0.054
35	15	8.348	8.320	-0.028
30	16	8.325	8.287	-0.038
30	17	8.237	8.185	-0.052
30	18	8.137	8.061	-0.076
30	19	8.203	8.205	0.002
30	20	8.065	8.045	-0.020
55	21	8.239	8.158	-0.081
55	22	8.260	8.221	-0.039
55	23	8.301	8.321	0.020
55	24	8.103	8.043	-0.060
55	25	8.240	8.242	0.002
55	26	8.069	8.053	-0.016
55	27	8.210	8.123	-0.087
55	28	8.177	8.107	-0.070
55	29	8.051	8.044	-0.007
55	30	8.227	8.197	-0.030
55	31	8.111	8.120	0.009
55	32	8.286	8.288	0.002
55	33	8.242	8.212	-0.030
55	34	8.201	8.264	0.063
55	35	8.114	8.090	-0.024
55	36	8.172	8.169	-0.003
55	37	8.112	8.100	-0.012
55	38	8.151	8.210	0.059
55	39	8.325	8.287	-0.038
55	40	8.168	8.165	-0.003
55	41	8.329	8.309	-0.020
55	42	8.262	8.231	-0.031
50	43	8.157	8.141	-0.016
50	44	8.188	8.136	-0.052
50	45	8.271	8.216	-0.055
50	46	8.236	8.185	-0.051
50	47	8.238	8.213	-0.025
	Max	8.398	8.377	0.164
	Average	8.236	8.219	-0.017
	Min	8.051	8.043	-0.095
	Std Dev	0.089	0.092	0.045



5.37_IDD_ACT_2M_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	13.5
Min Limit	13.5

krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.244	8.230	8.257	8.045	8.226	8.136	8.043
Average	8.274	8.302	8.315	8.157	8.287	8.178	8.180
Max	8.297	8.356	8.377	8.287	8.344	8.216	8.321
UL	13.500	13.500	13.500	13.500	13.500	13.500	13.500

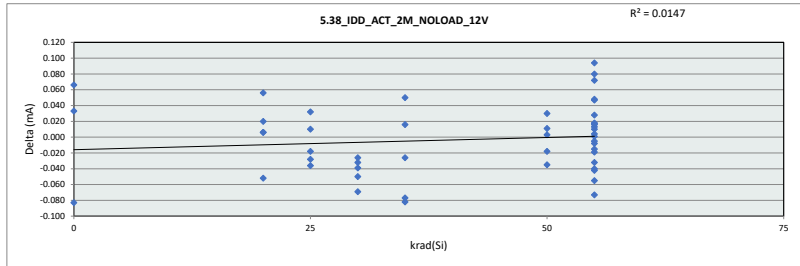


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.38_IDD_ACT_2M_NOLOAD_12V

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

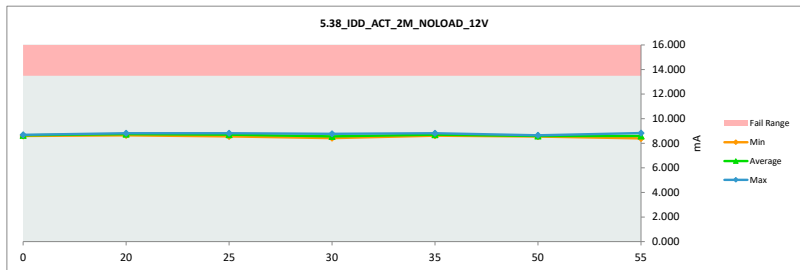


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.622	8.688	0.066
0	51	8.683	8.600	-0.083
0	52	8.650	8.683	0.033
25	1	8.590	8.554	-0.036
25	2	8.693	8.665	-0.028
25	3	8.803	8.813	0.010
25	4	8.676	8.708	0.032
25	5	8.751	8.733	-0.018
20	6	8.763	8.819	0.056
20	7	8.755	8.775	0.020
20	8	8.741	8.747	0.006
20	9	8.788	8.736	-0.052
20	10	8.639	8.645	0.006
35	11	8.638	8.612	-0.026
35	12	8.828	8.751	-0.077
35	13	8.573	8.623	0.050
35	14	8.899	8.817	-0.082
35	15	8.698	8.714	0.016
30	16	8.818	8.768	-0.050
30	17	8.565	8.539	-0.026
30	18	8.525	8.456	-0.069
30	19	8.654	8.622	-0.032
30	20	8.458	8.419	-0.039
55	21	8.577	8.535	-0.042
55	22	8.597	8.557	-0.040
55	23	8.689	8.674	-0.015
55	24	8.465	8.410	-0.055
55	25	8.661	8.733	0.072
55	26	8.416	8.397	-0.019
55	27	8.657	8.584	-0.073
55	28	8.533	8.543	0.010
55	29	8.447	8.463	0.016
55	30	8.599	8.603	0.004
55	31	8.466	8.513	0.047
55	32	8.672	8.664	-0.008
55	33	8.685	8.733	0.048
55	34	8.602	8.696	0.094
55	35	8.528	8.546	0.018
55	36	8.573	8.601	0.028
55	37	8.476	8.489	0.013
55	38	8.531	8.611	0.080
55	39	8.863	8.831	-0.032
55	40	8.559	8.560	0.001
55	41	8.700	8.717	0.017
55	42	8.660	8.655	-0.005
50	43	8.513	8.543	0.030
50	44	8.542	8.545	0.003
50	45	8.657	8.622	-0.035
50	46	8.654	8.636	-0.018
50	47	8.638	8.649	0.011
	Max	8.899	8.831	0.094
	Average	8.635	8.632	-0.003
	Min	8.416	8.397	-0.083
	Std Dev	0.112	0.111	0.043

5.38_IDD_ACT_2M_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	13.5
Min Limit	13.5

krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.600	8.645	8.554	8.419	8.612	8.543	8.397
Average	8.657	8.744	8.695	8.561	8.703	8.599	8.596
Max	8.688	8.819	8.813	8.768	8.817	8.649	8.831
UL	13.500	13.500	13.500	13.500	13.500	13.500	13.500

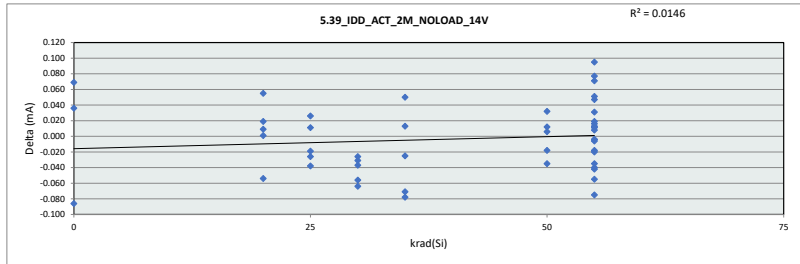


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.39_IDD_ACT_2M_NOLOAD_14V

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

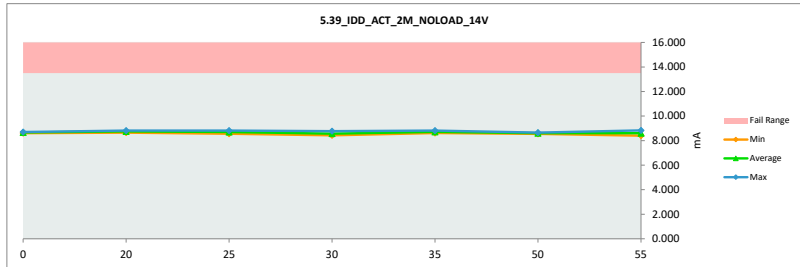


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.626	8.695	0.069
0	51	8.691	8.605	-0.086
0	52	8.655	8.691	0.036
25	1	8.598	8.560	-0.038
25	2	8.698	8.672	-0.026
25	3	8.805	8.816	0.011
25	4	8.682	8.708	0.026
25	5	8.756	8.737	-0.019
20	6	8.768	8.823	0.055
20	7	8.758	8.777	0.019
20	8	8.746	8.755	0.009
20	9	8.794	8.740	-0.054
20	10	8.647	8.648	0.001
35	11	8.643	8.618	-0.025
35	12	8.829	8.758	-0.071
35	13	8.575	8.625	0.050
35	14	8.900	8.822	-0.078
35	15	8.703	8.716	0.013
30	16	8.826	8.770	-0.056
30	17	8.571	8.545	-0.026
30	18	8.529	8.465	-0.064
30	19	8.657	8.626	-0.031
30	20	8.462	8.425	-0.037
55	21	8.582	8.540	-0.042
55	22	8.602	8.562	-0.040
55	23	8.694	8.676	-0.018
55	24	8.469	8.414	-0.055
55	25	8.664	8.735	0.071
55	26	8.421	8.401	-0.020
55	27	8.664	8.589	-0.075
55	28	8.540	8.548	0.008
55	29	8.452	8.468	0.016
55	30	8.601	8.612	0.011
55	31	8.470	8.517	0.047
55	32	8.676	8.670	-0.006
55	33	8.688	8.739	0.051
55	34	8.607	8.702	0.095
55	35	8.535	8.547	0.012
55	36	8.575	8.606	0.031
55	37	8.480	8.493	0.013
55	38	8.538	8.615	0.077
55	39	8.868	8.833	-0.035
55	40	8.566	8.562	-0.004
55	41	8.701	8.720	0.019
55	42	8.664	8.660	-0.004
50	43	8.517	8.549	0.032
50	44	8.544	8.550	0.006
50	45	8.662	8.627	-0.035
50	46	8.658	8.640	-0.018
50	47	8.640	8.652	0.012
	Max	8.900	8.833	0.095
	Average	8.640	8.636	-0.003
	Min	8.421	8.401	-0.086
	Std Dev	0.112	0.110	0.043

5.39_IDD_ACT_2M_NOLOAD

Test Site	
Tester	
Test Number	
Max Limit	13.5
Min Limit	13.5

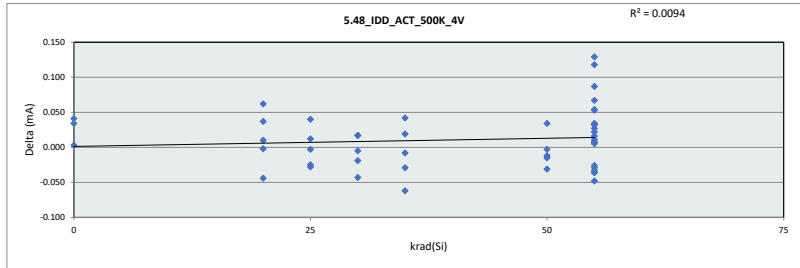
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.605	8.648	8.560	8.425	8.618	8.549	8.401
Average	8.664	8.749	8.699	8.566	8.708	8.604	8.600
Max	8.695	8.823	8.816	8.770	8.822	8.652	8.833
UL	13.500	13.500	13.500	13.500	13.500	13.500	13.500



**HDR TID Report
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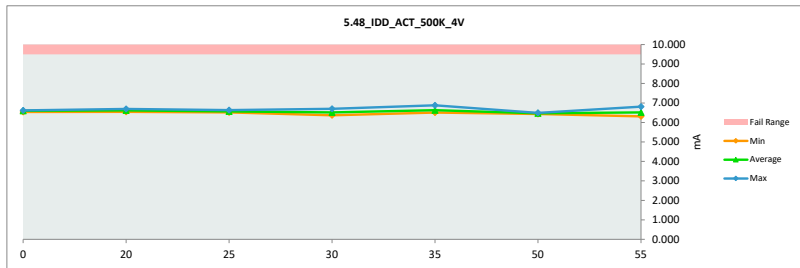
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.48_IDD_ACT_500K_4V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	9.5
Min Limit	9.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.501	6.542	0.041
0	51	6.619	6.622	0.003
0	52	6.585	6.619	0.034
25	1	6.541	6.516	-0.025
25	2	6.568	6.540	-0.028
25	3	6.616	6.628	0.012
25	4	6.499	6.539	0.040
25	5	6.635	6.632	-0.003
20	6	6.599	6.661	0.062
20	7	6.658	6.695	0.037
20	8	6.599	6.609	0.010
20	9	6.626	6.582	-0.044
20	10	6.547	6.545	-0.002
35	11	6.537	6.508	-0.029
35	12	6.677	6.615	-0.062
35	13	6.496	6.538	0.042
35	14	6.862	6.881	0.019
35	15	6.618	6.610	-0.008
30	16	6.722	6.703	-0.019
30	17	6.525	6.542	0.017
30	18	6.469	6.426	-0.043
30	19	6.504	6.521	0.017
30	20	6.376	6.371	-0.005
55	21	6.560	6.534	-0.026
55	22	6.554	6.561	0.007
55	23	6.578	6.611	0.033
55	24	6.425	6.389	-0.036
55	25	6.554	6.641	0.087
55	26	6.372	6.404	0.032
55	27	6.485	6.437	-0.048
55	28	6.445	6.479	0.034
55	29	6.342	6.313	-0.029
55	30	6.507	6.471	-0.036
55	31	6.361	6.366	0.005
55	32	6.755	6.809	0.054
55	33	6.553	6.682	0.129
55	34	6.484	6.602	0.118
55	35	6.396	6.363	-0.033
55	36	6.474	6.496	0.022
55	37	6.407	6.423	0.016
55	38	6.416	6.483	0.067
55	39	6.698	6.709	0.011
55	40	6.467	6.520	0.053
55	41	6.574	6.601	0.027
55	42	6.534	6.542	0.008
50	43	6.445	6.479	0.034
50	44	6.439	6.436	-0.003
50	45	6.522	6.491	-0.031
50	46	6.500	6.485	-0.015
50	47	6.475	6.463	-0.012
	Max	6.862	6.881	0.129
	Average	6.534	6.545	0.011
	Min	6.342	6.313	-0.062
	Std Dev	0.105	0.114	0.041

5.48_IDD_ACT_500K_4V		krad(Si)						
Test Site		0	20	25	30	35	50	55
Tester								
Test Number								
Max Limit	9.5	mA						
Min Limit		mA						
LL								
Min	6.542	6.545	6.516	6.371	6.508	6.436	6.313	
Average	6.594	6.618	6.571	6.513	6.630	6.471	6.520	
Max	6.622	6.695	6.632	6.703	6.881	6.491	6.809	
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500	

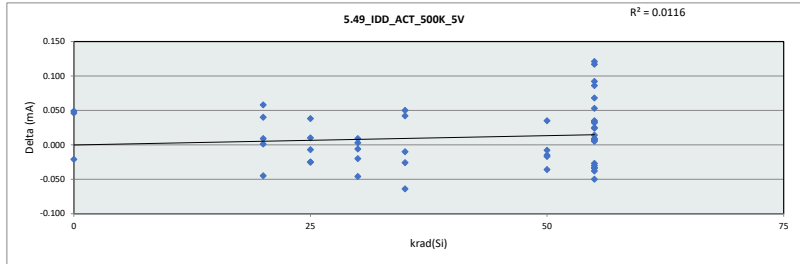


HDR TID Report TPS7H5005-SEP

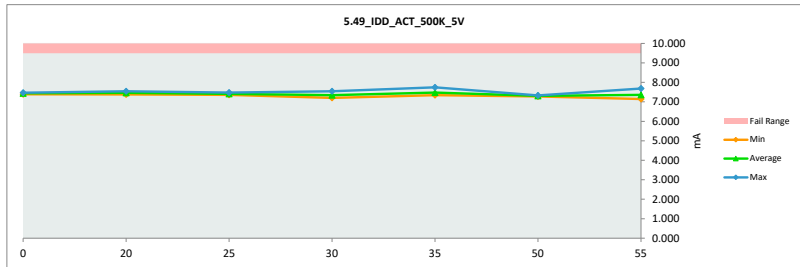
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.49_IDD_ACT_500K_5V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	9.5
Min Limit	9.5

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.340	7.389	0.049
0	51	7.471	7.450	-0.021
0	52	7.425	7.471	0.046
25	1	7.380	7.355	-0.025
25	2	7.403	7.378	-0.025
25	3	7.458	7.468	0.010
25	4	7.344	7.382	0.038
25	5	7.483	7.476	-0.007
20	6	7.445	7.503	0.058
20	7	7.504	7.544	0.040
20	8	7.445	7.454	0.009
20	9	7.471	7.426	-0.045
20	10	7.383	7.384	0.001
35	11	7.370	7.344	-0.026
35	12	7.526	7.462	-0.064
35	13	7.336	7.378	0.042
35	14	7.696	7.746	0.050
35	15	7.462	7.452	-0.010
30	16	7.566	7.546	-0.020
30	17	7.361	7.370	0.009
30	18	7.305	7.259	-0.046
30	19	7.339	7.342	0.003
30	20	7.211	7.205	-0.006
55	21	7.396	7.369	-0.027
55	22	7.400	7.405	0.005
55	23	7.432	7.464	0.032
55	24	7.260	7.227	-0.033
55	25	7.397	7.483	0.086
55	26	7.204	7.237	0.033
55	27	7.326	7.276	-0.050
55	28	7.282	7.317	0.035
55	29	7.176	7.146	-0.030
55	30	7.354	7.320	-0.034
55	31	7.195	7.203	0.008
55	32	7.594	7.686	0.092
55	33	7.397	7.518	0.121
55	34	7.328	7.445	0.117
55	35	7.234	7.196	-0.038
55	36	7.310	7.334	0.024
55	37	7.246	7.260	0.014
55	38	7.258	7.326	0.068
55	39	7.545	7.554	0.009
55	40	7.304	7.357	0.053
55	41	7.416	7.441	0.025
55	42	7.378	7.385	0.007
50	43	7.288	7.323	0.035
50	44	7.282	7.274	-0.008
50	45	7.367	7.331	-0.036
50	46	7.332	7.317	-0.015
50	47	7.320	7.303	-0.017
	Max	7.696	7.746	0.121
	Average	7.375	7.386	0.011
	Min	7.176	7.146	-0.064
	Std Dev	0.108	0.119	0.042



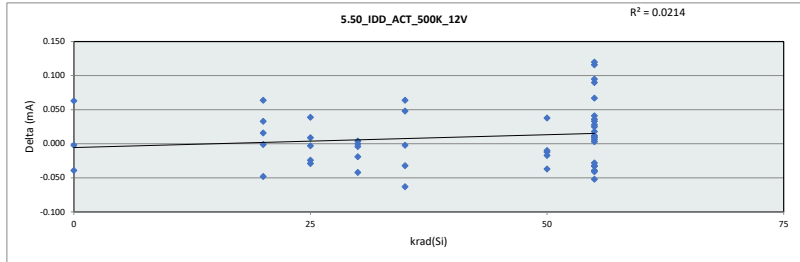
5.49_IDD_ACT_500K_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	9.5	mA						
Min Limit		mA						
LL								
Min	7.389	7.384	7.355	7.205	7.344	7.274	7.146	
Average	7.437	7.462	7.412	7.344	7.476	7.310	7.361	
Max	7.471	7.544	7.476	7.546	7.746	7.331	7.686	
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500	



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

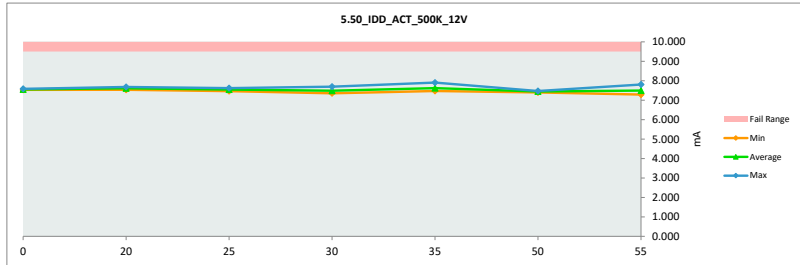
5.50_IDD_ACT_500K_12V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	9.5
Min Limit	9.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.470	7.533	0.063
0	51	7.583	7.544	-0.039
0	52	7.585	7.583	-0.002
25	1	7.492	7.463	-0.029
25	2	7.543	7.519	-0.024
25	3	7.609	7.618	0.009
25	4	7.495	7.534	0.039
25	5	7.614	7.611	-0.003
20	6	7.597	7.661	0.064
20	7	7.644	7.677	0.033
20	8	7.607	7.623	0.016
20	9	7.625	7.577	-0.048
20	10	7.536	7.535	-0.001
35	11	7.504	7.472	-0.032
35	12	7.682	7.619	-0.063
35	13	7.478	7.526	0.048
35	14	7.842	7.906	0.064
35	15	7.582	7.580	-0.002
30	16	7.712	7.693	-0.019
30	17	7.477	7.481	0.004
30	18	7.444	7.402	-0.042
30	19	7.508	7.504	-0.004
30	20	7.356	7.356	0.000
55	21	7.512	7.480	-0.032
55	22	7.526	7.529	0.003
55	23	7.575	7.600	0.025
55	24	7.392	7.351	-0.041
55	25	7.540	7.630	0.090
55	26	7.330	7.363	0.033
55	27	7.466	7.414	-0.052
55	28	7.412	7.448	0.036
55	29	7.323	7.290	-0.033
55	30	7.491	7.452	-0.039
55	31	7.321	7.333	0.012
55	32	7.714	7.809	0.095
55	33	7.552	7.668	0.116
55	34	7.477	7.597	0.120
55	35	7.384	7.356	-0.028
55	36	7.458	7.476	0.018
55	37	7.377	7.387	0.010
55	38	7.393	7.460	0.067
55	39	7.709	7.715	0.006
55	40	7.448	7.489	0.041
55	41	7.552	7.580	0.028
55	42	7.523	7.532	0.009
50	43	7.412	7.450	0.038
50	44	7.409	7.397	-0.012
50	45	7.509	7.472	-0.037
50	46	7.485	7.468	-0.017
50	47	7.459	7.449	-0.010
	Max	7.842	7.906	0.120
	Average	7.515	7.524	0.010
	Min	7.321	7.290	-0.063
	Std Dev	0.110	0.123	0.044

5.50_IDD_ACT_500K_12V	
Test Site	
Tester	
Test Number	
Max Limit	9.5
Min Limit	9.5

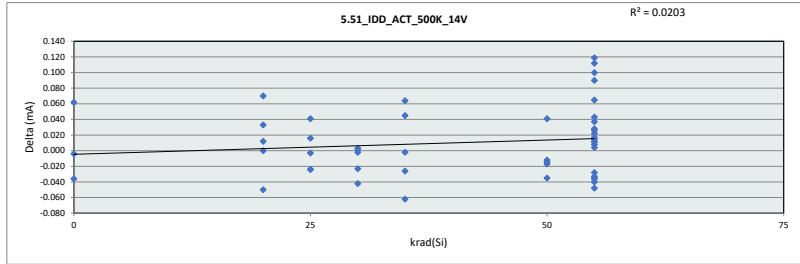
krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.533	7.535	7.463	7.356	7.472	7.397	7.290
Average	7.553	7.615	7.549	7.487	7.621	7.447	7.498
Max	7.583	7.677	7.618	7.618	7.906	7.472	7.809
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500



**HDR TID Report
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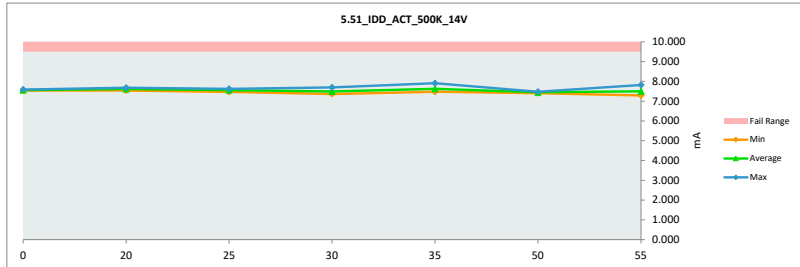
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.51_IDD_ACT_500K_14V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	9.5
Min Limit	9.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.476	7.538	0.062
0	51	7.586	7.550	-0.036
0	52	7.590	7.586	-0.004
25	1	7.494	7.470	-0.024
25	2	7.547	7.523	-0.024
25	3	7.611	7.627	0.016
25	4	7.497	7.538	0.041
25	5	7.620	7.617	-0.003
20	6	7.599	7.669	0.070
20	7	7.650	7.683	0.033
20	8	7.613	7.625	0.012
20	9	7.632	7.582	-0.050
20	10	7.539	7.539	0.000
35	11	7.503	7.477	-0.026
35	12	7.686	7.624	-0.062
35	13	7.482	7.527	0.045
35	14	7.845	7.909	0.064
35	15	7.589	7.587	-0.002
30	16	7.720	7.697	-0.023
30	17	7.483	7.486	0.003
30	18	7.450	7.408	-0.042
30	19	7.512	7.510	-0.002
30	20	7.358	7.360	0.002
55	21	7.515	7.487	-0.028
55	22	7.530	7.534	0.004
55	23	7.582	7.604	0.022
55	24	7.395	7.355	-0.040
55	25	7.543	7.633	0.090
55	26	7.337	7.365	0.028
55	27	7.466	7.418	-0.048
55	28	7.417	7.454	0.037
55	29	7.327	7.291	-0.036
55	30	7.492	7.459	-0.033
55	31	7.321	7.338	0.017
55	32	7.718	7.818	0.100
55	33	7.557	7.669	0.112
55	34	7.484	7.603	0.119
55	35	7.393	7.358	-0.035
55	36	7.464	7.479	0.015
55	37	7.380	7.392	0.012
55	38	7.398	7.463	0.065
55	39	7.713	7.721	0.008
55	40	7.452	7.495	0.043
55	41	7.556	7.582	0.026
55	42	7.529	7.540	0.011
50	43	7.413	7.454	0.041
50	44	7.416	7.404	-0.012
50	45	7.512	7.477	-0.035
50	46	7.488	7.473	-0.015
50	47	7.467	7.450	-0.017
	Max	7.845	7.909	0.119
	Average	7.519	7.529	0.010
	Min	7.321	7.291	-0.062
	Std Dev	0.110	0.123	0.043

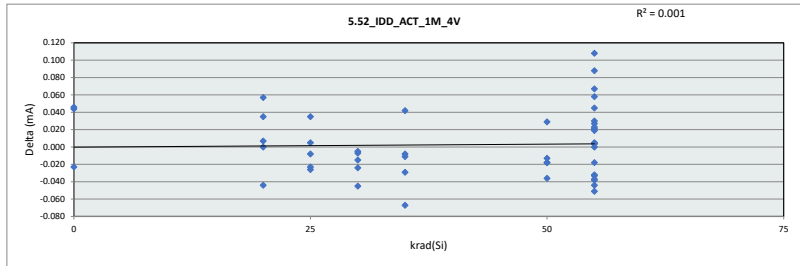
5.51_IDD_ACT_500K_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	9.5	mA						
Min Limit		mA						
LL								
Min	7.538	7.539	7.470	7.360	7.477	7.404	7.291	
Average	7.558	7.620	7.555	7.492	7.625	7.452	7.503	
Max	7.586	7.683	7.627	7.697	7.909	7.477	7.818	
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500	



**HDR TID Report
TPS7H5005-SEP**

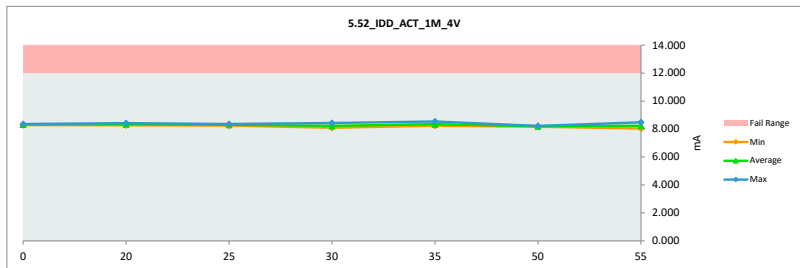
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.52_IDD_ACT_1M_4V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	12
Min Limit	12



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.236	8.280	0.044
0	51	8.364	8.341	-0.023
0	52	8.318	8.364	0.046
25	1	8.275	8.249	-0.026
25	2	8.304	8.281	-0.023
25	3	8.355	8.360	0.005
25	4	8.243	8.278	0.035
25	5	8.372	8.364	-0.008
20	6	8.337	8.394	0.057
20	7	8.389	8.424	0.035
20	8	8.333	8.340	0.007
20	9	8.363	8.319	-0.044
20	10	8.269	8.269	0.000
35	11	8.262	8.233	-0.029
35	12	8.421	8.354	-0.067
35	13	8.228	8.270	0.042
35	14	8.549	8.541	-0.008
35	15	8.349	8.338	-0.011
30	16	8.459	8.435	-0.024
30	17	8.250	8.235	-0.015
30	18	8.191	8.146	-0.045
30	19	8.226	8.221	-0.005
30	20	8.099	8.092	-0.007
55	21	8.286	8.254	-0.032
55	22	8.281	8.281	0.000
55	23	8.319	8.346	0.027
55	24	8.143	8.106	-0.037
55	25	8.287	8.375	0.088
55	26	8.096	8.126	0.030
55	27	8.227	8.176	-0.051
55	28	8.175	8.198	0.023
55	29	8.071	8.038	-0.033
55	30	8.243	8.205	-0.038
55	31	8.090	8.095	0.005
55	32	8.483	8.487	0.004
55	33	8.280	8.338	0.058
55	34	8.218	8.326	0.108
55	35	8.127	8.083	-0.044
55	36	8.199	8.220	0.021
55	37	8.141	8.145	0.004
55	38	8.146	8.213	0.067
55	39	8.429	8.411	-0.018
55	40	8.188	8.233	0.045
55	41	8.304	8.323	0.019
55	42	8.266	8.270	0.004
50	43	8.173	8.202	0.029
50	44	8.178	8.165	-0.013
50	45	8.261	8.225	-0.036
50	46	8.229	8.211	-0.018
50	47	8.220	8.202	-0.018
	Max	8.549	8.541	0.108
	Average	8.265	8.268	0.003
	Min	8.071	8.038	-0.067
	Std Dev	0.105	0.108	0.037

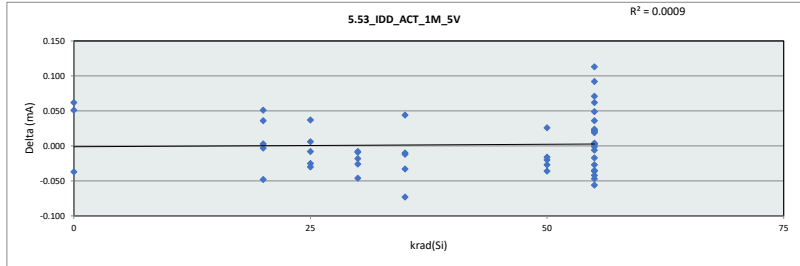
5.52_IDD_ACT_1M_4V								
Test Site								
Tester								
Test Number								
Max Limit	12	mA						
Min Limit		mA						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	8.280	8.269	8.249	8.092	8.233	8.165	8.038	
Average	8.328	8.349	8.306	8.226	8.347	8.201	8.239	
Max	8.364	8.424	8.364	8.435	8.541	8.225	8.487	
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	



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krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

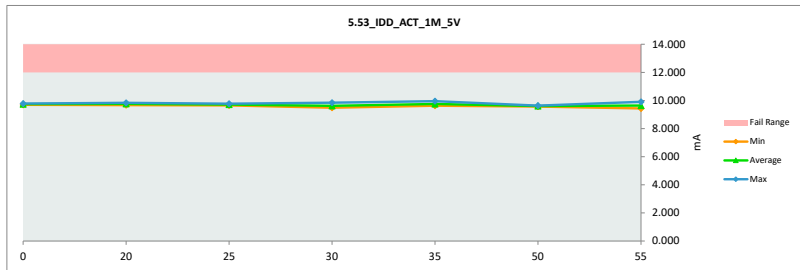
5.53_IDD_ACT_1M_5V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	12
Min Limit	12



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.640	9.691	0.051
0	51	9.785	9.748	-0.037
0	52	9.723	9.785	0.062
25	1	9.679	9.649	-0.030
25	2	9.709	9.684	-0.025
25	3	9.762	9.768	0.006
25	4	9.650	9.687	0.037
25	5	9.777	9.769	-0.008
20	6	9.754	9.805	0.051
20	7	9.799	9.835	0.036
20	8	9.748	9.751	0.003
20	9	9.774	9.726	-0.048
20	10	9.670	9.667	-0.003
35	11	9.664	9.631	-0.033
35	12	9.838	9.765	-0.073
35	13	9.628	9.672	0.044
35	14	9.963	9.951	-0.012
35	15	9.748	9.738	-0.010
30	16	9.872	9.846	-0.026
30	17	9.641	9.623	-0.018
30	18	9.584	9.538	-0.046
30	19	9.623	9.615	-0.008
30	20	9.497	9.488	-0.009
55	21	9.681	9.654	-0.027
55	22	9.690	9.684	-0.006
55	23	9.740	9.764	0.024
55	24	9.541	9.506	-0.035
55	25	9.693	9.785	0.092
55	26	9.485	9.521	0.036
55	27	9.637	9.581	-0.056
55	28	9.572	9.594	0.022
55	29	9.469	9.433	-0.036
55	30	9.650	9.608	-0.042
55	31	9.489	9.492	0.003
55	32	9.910	9.909	-0.001
55	33	9.680	9.742	0.062
55	34	9.624	9.737	0.113
55	35	9.528	9.481	-0.047
55	36	9.602	9.621	0.019
55	37	9.544	9.548	0.004
55	38	9.548	9.619	0.071
55	39	9.845	9.828	-0.017
55	40	9.588	9.637	0.049
55	41	9.706	9.727	0.021
55	42	9.675	9.677	0.002
50	43	9.579	9.605	0.026
50	44	9.585	9.565	-0.020
50	45	9.670	9.634	-0.036
50	46	9.626	9.610	-0.016
50	47	9.634	9.607	-0.027
	Max	9.963	9.951	0.113
	Average	9.670	9.672	0.002
	Min	9.469	9.433	-0.073
	Std Dev	0.110	0.113	0.040

5.53_IDD_ACT_1M_5V	
Test Site	
Tester	
Test Number	
Max Limit	12 mA
Min Limit	12 mA

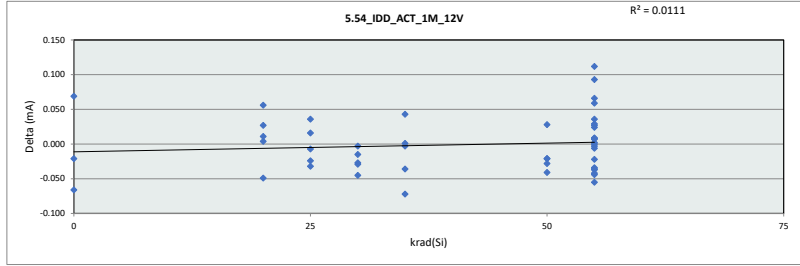
krad(Si)	0	20	25	30	35	50	55
LL							
Min	9.691	9.667	9.649	9.488	9.631	9.565	9.433
Average	9.741	9.757	9.711	9.622	9.751	9.604	9.643
Max	9.785	9.835	9.769	9.846	9.951	9.634	9.909
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000



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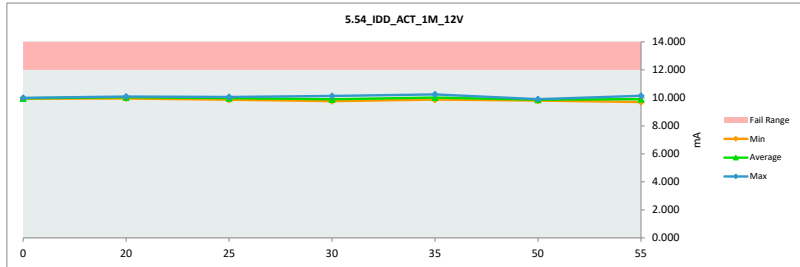
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.54_IDD_ACT_1M_12V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	12
Min Limit	12



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.899	9.968	0.069
0	51	10.004	9.938	-0.066
0	52	10.025	10.004	-0.021
25	1	9.901	9.869	-0.032
25	2	9.976	9.952	-0.024
25	3	10.050	10.066	0.016
25	4	9.941	9.977	0.036
25	5	10.033	10.026	-0.007
20	6	10.044	10.100	0.056
20	7	10.071	10.098	0.027
20	8	10.053	10.064	0.011
20	9	10.069	10.020	-0.049
20	10	9.953	9.957	0.004
35	11	9.919	9.883	-0.036
35	12	10.129	10.057	-0.072
35	13	9.902	9.945	0.043
35	14	10.246	10.247	0.001
35	15	9.989	9.986	-0.003
30	16	10.158	10.131	-0.027
30	17	9.876	9.847	-0.029
30	18	9.856	9.811	-0.045
30	19	9.937	9.922	-0.015
30	20	9.771	9.768	-0.003
55	21	9.913	9.879	-0.034
55	22	9.935	9.929	-0.006
55	23	10.015	10.024	0.009
55	24	9.791	9.747	-0.044
55	25	9.970	10.063	0.093
55	26	9.735	9.764	0.029
55	27	9.911	9.856	-0.055
55	28	9.835	9.859	0.024
55	29	9.744	9.702	-0.042
55	30	9.913	9.877	-0.036
55	31	9.731	9.738	0.007
55	32	10.148	10.148	0.000
55	33	9.977	10.036	0.059
55	34	9.911	10.023	0.112
55	35	9.817	9.780	-0.037
55	36	9.888	9.896	0.008
55	37	9.801	9.798	-0.003
55	38	9.814	9.880	0.066
55	39	10.153	10.131	-0.022
55	40	9.861	9.897	0.036
55	41	9.971	9.998	0.027
55	42	9.955	9.957	0.002
50	43	9.822	9.850	0.028
50	44	9.831	9.803	-0.028
50	45	9.949	9.908	-0.041
50	46	9.919	9.898	-0.021
50	47	9.909	9.888	-0.021
	Max	10.246	10.247	0.112
	Average	9.940	9.939	-0.001
	Min	9.731	9.702	-0.072
	Std Dev	0.116	0.120	0.040

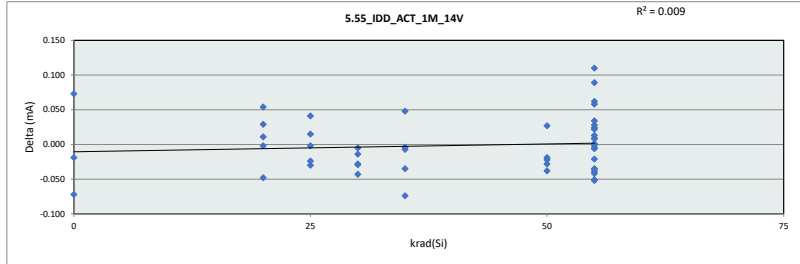
5.54_IDD_ACT_1M_12V								
Test Site								
Tester								
Test Number								
Max Limit	12	mA						
Min Limit		mA						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	9.938	9.957	9.869	9.768	9.883	9.803	9.702	
Average	9.970	10.048	9.978	9.896	10.024	9.869	9.908	
Max	10.004	10.100	10.066	10.131	10.247	9.908	10.148	
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	



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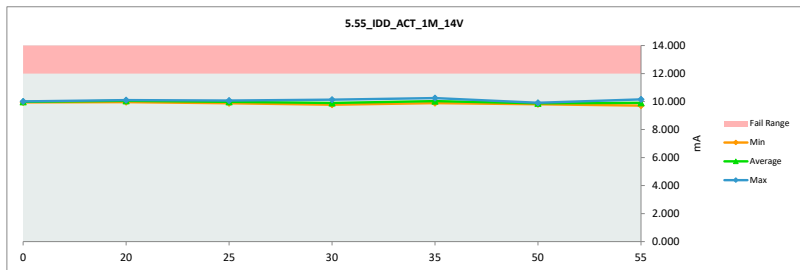
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.55_IDD_ACT_1M_14V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	12
Min Limit	12



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.904	9.977	0.073
0	51	10.012	9.940	-0.072
0	52	10.031	10.012	-0.019
25	1	9.904	9.874	-0.030
25	2	9.981	9.957	-0.024
25	3	10.053	10.068	0.015
25	4	9.944	9.985	0.041
25	5	10.037	10.035	-0.002
20	6	10.050	10.104	0.054
20	7	10.072	10.101	0.029
20	8	10.058	10.069	0.011
20	9	10.073	10.025	-0.048
20	10	9.960	9.958	-0.002
35	11	9.926	9.891	-0.035
35	12	10.138	10.064	-0.074
35	13	9.906	9.954	0.048
35	14	10.255	10.248	-0.007
35	15	9.995	9.991	-0.004
30	16	10.163	10.135	-0.028
30	17	9.882	9.853	-0.029
30	18	9.861	9.818	-0.043
30	19	9.941	9.927	-0.014
30	20	9.777	9.772	-0.005
55	21	9.917	9.882	-0.035
55	22	9.937	9.931	-0.006
55	23	10.020	10.029	0.009
55	24	9.800	9.749	-0.051
55	25	9.975	10.064	0.089
55	26	9.741	9.769	0.028
55	27	9.913	9.861	-0.052
55	28	9.837	9.859	0.022
55	29	9.746	9.710	-0.036
55	30	9.916	9.877	-0.039
55	31	9.736	9.744	0.008
55	32	10.153	10.152	-0.001
55	33	9.984	10.042	0.058
55	34	9.918	10.028	0.110
55	35	9.822	9.780	-0.042
55	36	9.890	9.903	0.013
55	37	9.805	9.806	0.001
55	38	9.822	9.884	0.062
55	39	10.160	10.139	-0.021
55	40	9.871	9.905	0.034
55	41	9.976	10.000	0.024
55	42	9.963	9.958	-0.005
50	43	9.829	9.856	0.027
50	44	9.837	9.809	-0.028
50	45	9.951	9.913	-0.038
50	46	9.922	9.903	-0.019
50	47	9.915	9.893	-0.022
	Max	10.255	10.248	0.110
	Average	9.946	9.944	-0.002
	Min	9.736	9.710	-0.074
	Std Dev	0.116	0.120	0.040

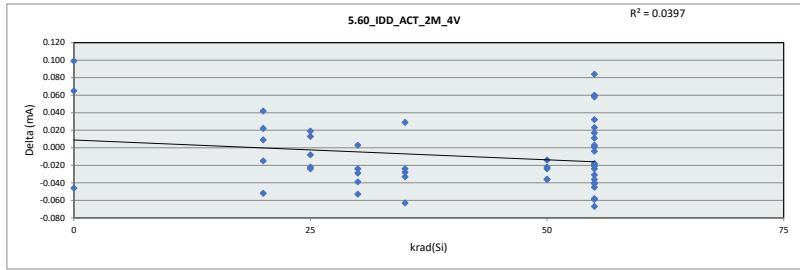
5.55_IDD_ACT_1M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	12	mA						
Min Limit	12	mA						
LL								
Min		9.940	9.958	9.874	9.772	9.891	9.809	9.710
Average		9.976	10.051	9.984	9.901	10.030	9.875	9.912
Max		10.012	10.104	10.068	10.135	10.248	9.913	10.152
UL		12.000	12.000	12.000	12.000	12.000	12.000	12.000



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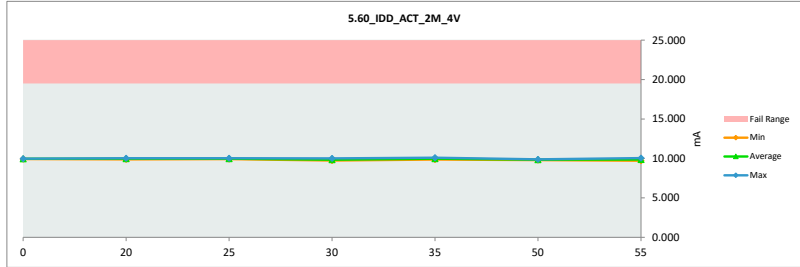
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.60_IDD_ACT_2M_4V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	19.5
Min Limit	19.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.899	9.964	0.065
0	51	9.971	9.925	-0.046
0	52	9.872	9.971	0.099
25	1	9.937	9.915	-0.022
25	2	9.982	9.958	-0.024
25	3	9.994	10.007	0.013
25	4	9.896	9.915	0.019
25	5	10.027	10.019	-0.008
20	6	9.960	10.002	0.042
20	7	10.005	10.027	0.022
20	8	9.977	9.986	0.009
20	9	9.985	9.933	-0.052
20	10	9.891	9.876	-0.015
35	11	9.885	9.861	-0.024
35	12	10.040	9.977	-0.063
35	13	9.867	9.896	0.029
35	14	10.121	10.093	-0.028
35	15	10.055	10.022	-0.033
30	16	10.046	10.017	-0.029
30	17	9.883	9.844	-0.039
30	18	9.784	9.731	-0.053
30	19	9.832	9.835	0.003
30	20	9.795	9.771	-0.024
55	21	9.873	9.828	-0.045
55	22	9.904	9.885	-0.019
55	23	10.017	9.999	-0.018
55	24	9.809	9.751	-0.058
55	25	9.901	9.961	0.060
55	26	9.699	9.710	0.011
55	27	9.851	9.784	-0.067
55	28	9.793	9.769	-0.024
55	29	9.774	9.743	-0.031
55	30	9.957	9.898	-0.059
55	31	9.831	9.791	-0.040
55	32	10.054	10.050	-0.004
55	33	9.860	9.892	0.032
55	34	9.837	9.921	0.084
55	35	9.785	9.744	-0.041
55	36	9.821	9.824	0.003
55	37	9.775	9.792	0.017
55	38	9.823	9.881	0.058
55	39	9.996	9.975	-0.021
55	40	9.807	9.830	0.023
55	41	9.934	9.935	0.001
55	42	9.920	9.884	-0.036
50	43	9.834	9.820	-0.014
50	44	9.828	9.792	-0.036
50	45	9.893	9.871	-0.022
50	46	9.854	9.830	-0.024
50	47	9.923	9.887	-0.036
	Max	10.121	10.093	0.099
	Average	9.901	9.892	-0.009
	Min	9.699	9.710	-0.067
	Std Dev	0.092	0.095	0.038

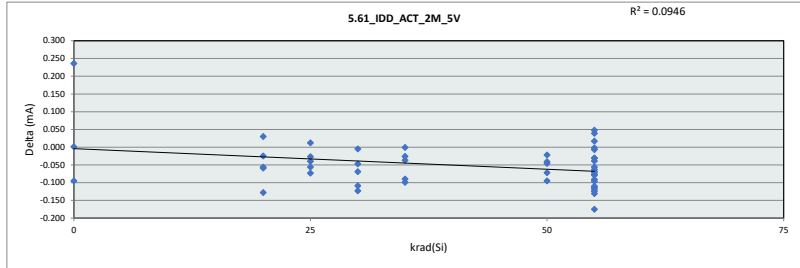
5.60_IDD_ACT_2M_4V								
Test Site								
Tester								
Test Number								
Max Limit	19.5	mA						
Min Limit		mA						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	9.925	9.876	9.915	9.731	9.861	9.792	9.710	
Average	9.953	9.965	9.963	9.840	9.970	9.840	9.857	
Max	9.971	10.027	10.019	10.017	10.093	9.887	10.050	
UL	19.500	19.500	19.500	19.500	19.500	19.500	19.500	



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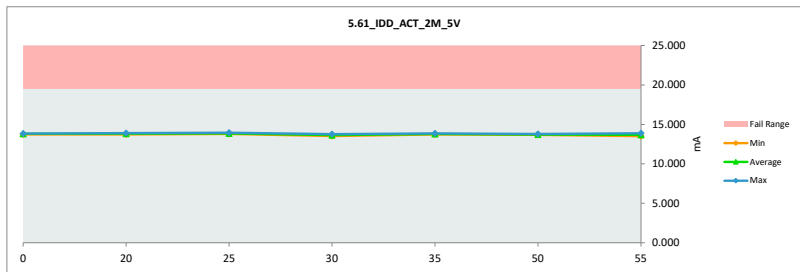
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.61_IDD_ACT_2M_5V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	19.5
Min Limit	19.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	13.838	13.839	0.001
0	51	13.824	13.729	-0.095
0	52	13.588	13.824	0.236
25	1	13.875	13.802	-0.073
25	2	13.903	13.847	-0.056
25	3	13.891	13.903	0.012
25	4	13.823	13.796	-0.027
25	5	13.987	13.947	-0.040
20	6	13.821	13.851	0.030
20	7	13.907	13.851	-0.056
20	8	13.919	13.894	-0.025
20	9	13.879	13.751	-0.128
20	10	13.787	13.728	-0.059
35	11	13.757	13.731	-0.026
35	12	13.906	13.816	-0.090
35	13	13.765	13.764	-0.001
35	14	13.876	13.777	-0.099
35	15	13.902	13.865	-0.037
30	16	13.836	13.767	-0.069
30	17	13.795	13.672	-0.123
30	18	13.633	13.524	-0.109
30	19	13.728	13.723	-0.005
30	20	13.586	13.539	-0.047
55	21	13.722	13.591	-0.131
55	22	13.828	13.718	-0.110
55	23	13.915	13.884	-0.031
55	24	13.657	13.544	-0.113
55	25	13.788	13.732	-0.056
55	26	13.588	13.512	-0.076
55	27	13.722	13.598	-0.124
55	28	13.717	13.542	-0.175
55	29	13.564	13.581	0.017
55	30	13.750	13.743	-0.007
55	31	13.612	13.651	0.039
55	32	13.793	13.762	-0.031
55	33	13.740	13.644	-0.096
55	34	13.750	13.748	-0.002
55	35	13.671	13.632	-0.039
55	36	13.724	13.645	-0.079
55	37	13.677	13.608	-0.069
55	38	13.702	13.750	0.048
55	39	13.804	13.741	-0.063
55	40	13.730	13.639	-0.091
55	41	13.839	13.770	-0.069
55	42	13.846	13.728	-0.118
50	43	13.713	13.672	-0.041
50	44	13.766	13.671	-0.095
50	45	13.824	13.778	-0.046
50	46	13.757	13.685	-0.072
50	47	13.774	13.752	-0.022
	Max	13.987	13.947	0.236
	Average	13.776	13.725	-0.051
	Min	13.564	13.512	-0.175
	Std Dev	0.100	0.107	0.064

5.61_IDD_ACT_2M_5V							
Test Site							
Tester							
Test Number							
Max Limit	19.5	mA					
Min Limit		mA					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	13.729	13.728	13.796	13.524	13.731	13.671	13.512
Average	13.797	13.815	13.859	13.645	13.791	13.712	13.671
Max	13.839	13.894	13.947	13.767	13.865	13.778	13.884
UL	19.500	19.500	19.500	19.500	19.500	19.500	19.500

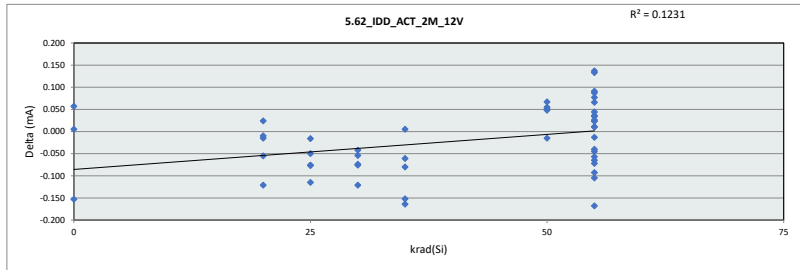


**HDR TID Report
TPS7H5005-SEP**

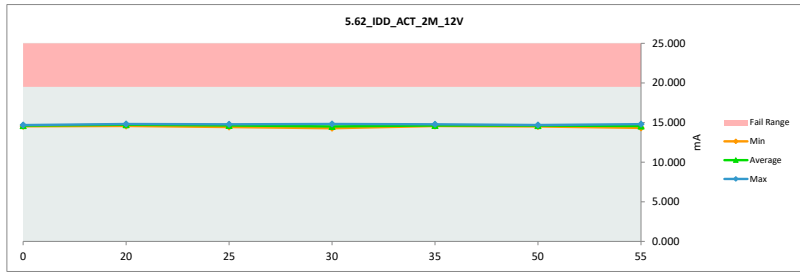
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.62_IDD_ACT_2M_12V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	19.5
Min Limit	19.5

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	14.600	14.657	0.057
0	51	14.683	14.530	-0.153
0	52	14.678	14.683	0.005
25	1	14.552	14.437	-0.115
25	2	14.672	14.595	-0.077
25	3	14.825	14.775	-0.050
25	4	14.698	14.682	-0.016
25	5	14.770	14.694	-0.076
20	6	14.788	14.812	0.024
20	7	14.779	14.764	-0.015
20	8	14.809	14.754	-0.055
20	9	14.832	14.711	-0.121
20	10	14.579	14.569	-0.010
35	11	14.641	14.561	-0.080
35	12	14.882	14.718	-0.164
35	13	14.551	14.556	0.005
35	14	14.940	14.788	-0.152
35	15	14.638	14.577	-0.061
30	16	14.897	14.821	-0.076
30	17	14.495	14.421	-0.074
30	18	14.463	14.409	-0.054
30	19	14.674	14.632	-0.042
30	20	14.404	14.283	-0.121
55	21	14.504	14.411	-0.093
55	22	14.586	14.521	-0.065
55	23	14.740	14.668	-0.072
55	24	14.410	14.353	-0.057
55	25	14.696	14.732	0.036
55	26	14.336	14.362	0.026
55	27	14.682	14.514	-0.168
55	28	14.510	14.497	-0.013
55	29	14.358	14.318	-0.040
55	30	14.530	14.596	0.066
55	31	14.357	14.494	0.137
55	32	14.664	14.619	-0.045
55	33	14.656	14.666	0.010
55	34	14.606	14.693	0.087
55	35	14.486	14.563	0.077
55	36	14.524	14.615	0.091
55	37	14.418	14.452	0.034
55	38	14.494	14.627	0.133
55	39	14.897	14.792	-0.105
55	40	14.526	14.537	0.011
55	41	14.654	14.698	0.044
55	42	14.654	14.677	0.023
50	43	14.444	14.511	0.067
50	44	14.497	14.545	0.048
50	45	14.683	14.668	-0.015
50	46	14.642	14.697	0.055
50	47	14.603	14.654	0.051
	Max	14.940	14.821	0.137
	Average	14.620	14.598	-0.022
	Min	14.336	14.283	-0.168
	Std Dev	0.151	0.134	0.076



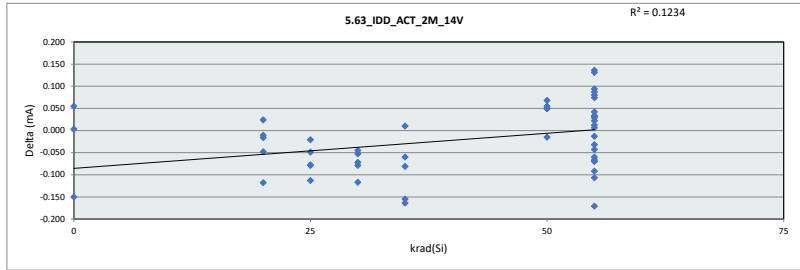
5.62_IDD_ACT_2M_12V		krad(Si)						
		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	19.5	mA						
Min Limit	19.5	mA						
LL								
Min		14.530	14.569	14.437	14.283	14.556	14.511	14.318
Average		14.623	14.722	14.637	14.513	14.640	14.615	14.564
Max		14.683	14.812	14.775	14.821	14.788	14.697	14.792
UL		19.500	19.500	19.500	19.500	19.500	19.500	19.500



**HDR TID Report
TPS7H5005-SEP**

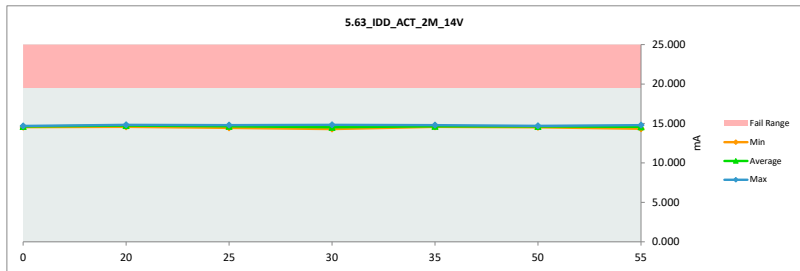
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.63_IDD_ACT_2M_14V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	19.5
Min Limit	19.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	14.606	14.661	0.055
0	51	14.687	14.537	-0.150
0	52	14.684	14.687	0.003
25	1	14.557	14.444	-0.113
25	2	14.676	14.597	-0.079
25	3	14.828	14.779	-0.049
25	4	14.704	14.683	-0.021
25	5	14.774	14.696	-0.078
20	6	14.793	14.817	0.024
20	7	14.783	14.767	-0.016
20	8	14.811	14.763	-0.048
20	9	14.836	14.718	-0.118
20	10	14.583	14.572	-0.011
35	11	14.646	14.565	-0.081
35	12	14.886	14.722	-0.164
35	13	14.554	14.564	0.010
35	14	14.945	14.790	-0.155
35	15	14.643	14.583	-0.060
30	16	14.905	14.826	-0.079
30	17	14.501	14.429	-0.072
30	18	14.466	14.413	-0.053
30	19	14.680	14.635	-0.045
30	20	14.408	14.291	-0.117
55	21	14.510	14.418	-0.092
55	22	14.594	14.524	-0.070
55	23	14.743	14.676	-0.067
55	24	14.415	14.355	-0.060
55	25	14.702	14.735	0.033
55	26	14.339	14.368	0.029
55	27	14.688	14.517	-0.171
55	28	14.510	14.497	-0.013
55	29	14.363	14.331	-0.032
55	30	14.534	14.608	0.074
55	31	14.364	14.495	0.131
55	32	14.667	14.624	-0.043
55	33	14.665	14.671	0.006
55	34	14.607	14.694	0.087
55	35	14.491	14.571	0.080
55	36	14.528	14.622	0.094
55	37	14.424	14.456	0.032
55	38	14.495	14.631	0.136
55	39	14.903	14.796	-0.107
55	40	14.528	14.540	0.012
55	41	14.659	14.701	0.042
55	42	14.655	14.677	0.022
50	43	14.447	14.515	0.068
50	44	14.503	14.552	0.049
50	45	14.687	14.672	-0.015
50	46	14.646	14.701	0.055
50	47	14.605	14.655	0.050
	Max	14.945	14.826	0.136
	Average	14.625	14.603	-0.022
	Min	14.339	14.291	-0.171
	Std Dev	0.151	0.133	0.076

5.63_IDD_ACT_2M_14V							
Test Site							
Tester							
Test Number							
Max Limit	19.5	mA					
Min Limit		mA					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	14.537	14.572	14.444	14.291	14.564	14.515	14.331
Average	14.628	14.727	14.640	14.519	14.645	14.619	14.569
Max	14.687	14.817	14.779	14.826	14.790	14.701	14.796
UL	19.500	19.500	19.500	19.500	19.500	19.500	19.500

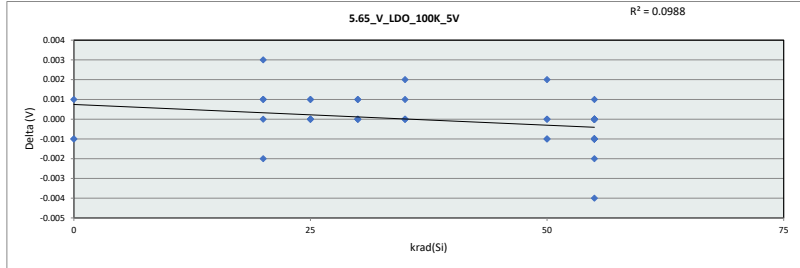


**HDR TID Report
TPS7H5005-SEP**

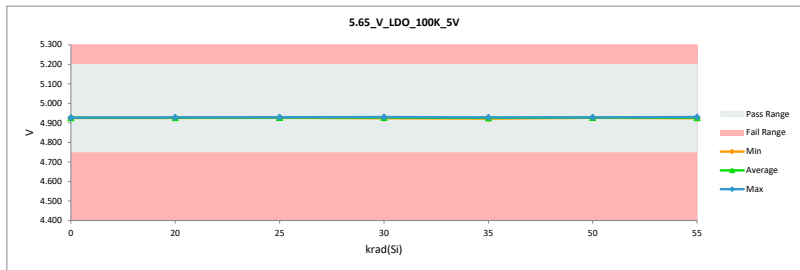
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.65_V_LDO_100K_5V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.75	4.75

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	4.928	4.927	-0.001
0	51	4.925	4.926	0.001
0	52	4.926	4.925	-0.001
25	1	4.928	4.929	0.001
25	2	4.928	4.929	0.001
25	3	4.926	4.926	0.000
25	4	4.928	4.928	0.000
25	5	4.926	4.926	0.000
20	6	4.927	4.925	-0.002
20	7	4.924	4.925	0.001
20	8	4.926	4.927	0.001
20	9	4.925	4.928	0.003
20	10	4.927	4.927	0.000
35	11	4.927	4.928	0.001
35	12	4.925	4.927	0.002
35	13	4.927	4.927	0.000
35	14	4.922	4.922	0.000
35	15	4.925	4.925	0.000
30	16	4.924	4.924	0.000
30	17	4.927	4.927	0.000
30	18	4.927	4.928	0.001
30	19	4.927	4.928	0.001
30	20	4.930	4.930	0.000
55	21	4.926	4.925	-0.001
55	22	4.926	4.926	0.000
55	23	4.926	4.925	-0.001
55	24	4.929	4.929	0.000
55	25	4.927	4.926	-0.001
55	26	4.928	4.928	0.000
55	27	4.927	4.928	0.001
55	28	4.928	4.924	-0.004
55	29	4.930	4.930	0.000
55	30	4.927	4.927	0.000
55	31	4.930	4.929	-0.001
55	32	4.924	4.924	0.000
55	33	4.925	4.924	-0.001
55	34	4.927	4.925	-0.002
55	35	4.929	4.928	-0.001
55	36	4.927	4.927	0.000
55	37	4.928	4.928	0.000
55	38	4.928	4.927	-0.001
55	39	4.924	4.924	0.000
55	40	4.927	4.926	-0.001
55	41	4.926	4.925	-0.001
55	42	4.926	4.926	0.000
50	43	4.928	4.927	-0.001
50	44	4.928	4.928	0.000
50	45	4.927	4.926	-0.001
50	46	4.927	4.927	0.000
50	47	4.926	4.928	0.002
Max		4.930	4.930	0.003
Average		4.927	4.927	0.000
Min		4.922	4.922	-0.004
Std Dev		0.002	0.002	0.001



5.65_V_LDO_100K_5V							
Test Site							
Tester							
Test Number							
Max Limit	5.2	V					
Min Limit	4.75	V					
krad(Si)	0	20	25	30	35	50	55
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.925	4.925	4.926	4.924	4.922	4.926	4.924
Average	4.926	4.926	4.928	4.927	4.926	4.927	4.926
Max	4.927	4.928	4.929	4.930	4.928	4.928	4.930
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200



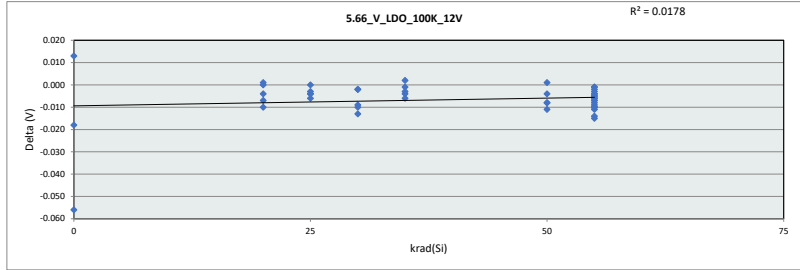
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.66_V_LDO_100K_12V

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

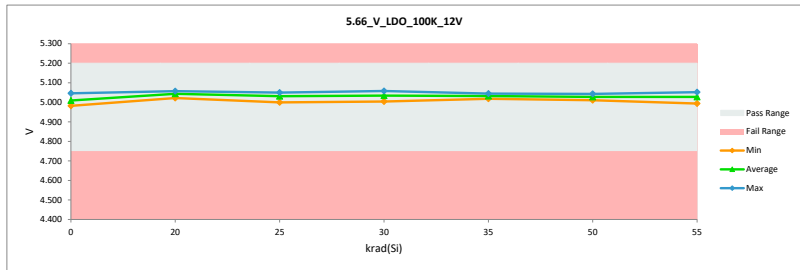
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.033	5.046	0.013
0	51	5.000	4.982	-0.018
0	52	5.056	5.000	-0.056
25	1	5.006	5.000	-0.006
25	2	5.037	5.034	-0.003
25	3	5.050	5.050	0.000
25	4	5.052	5.048	-0.004
25	5	5.029	5.025	-0.004
20	6	5.052	5.045	-0.007
20	7	5.032	5.022	-0.010
20	8	5.056	5.057	0.001
20	9	5.048	5.048	0.000
20	10	5.050	5.046	-0.004
35	11	5.025	5.021	-0.004
35	12	5.048	5.045	-0.003
35	13	5.040	5.034	-0.006
35	14	5.042	5.041	-0.001
35	15	5.016	5.018	0.002
30	16	5.039	5.030	-0.009
30	17	5.017	5.004	-0.013
30	18	5.041	5.039	-0.002
30	19	5.068	5.058	-0.010
30	20	5.042	5.040	-0.002
55	21	5.004	4.994	-0.010
55	22	5.019	5.014	-0.005
55	23	5.035	5.021	-0.014
55	24	5.029	5.019	-0.010
55	25	5.041	5.035	-0.006
55	26	5.021	5.011	-0.010
55	27	5.038	5.036	-0.002
55	28	5.028	5.021	-0.007
55	29	5.046	5.038	-0.008
55	30	5.027	5.023	-0.004
55	31	5.024	5.021	-0.003
55	32	5.011	5.005	-0.006
55	33	5.057	5.048	-0.009
55	34	5.048	5.042	-0.006
55	35	5.053	5.052	-0.001
55	36	5.045	5.035	-0.010
55	37	5.028	5.021	-0.007
55	38	5.032	5.021	-0.011
55	39	5.055	5.051	-0.004
55	40	5.042	5.027	-0.015
55	41	5.029	5.028	-0.001
55	42	5.043	5.038	-0.005
50	43	5.021	5.017	-0.004
50	44	5.022	5.011	-0.011
50	45	5.039	5.031	-0.008
50	46	5.051	5.043	-0.008
50	47	5.035	5.036	0.001
	Max	5.068	5.058	0.013
	Average	5.036	5.029	-0.007
	Min	5.000	4.982	-0.056
	Std Dev	0.015	0.017	0.009



5.66_V_LDO_100K_12V

Test Site	
Tester	
Test Number	
Max Limit	5.2
Min Limit	4.75

krad(Si)	0	20	25	30	35	50	55
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.982	5.022	5.000	5.004	5.018	5.011	4.994
Average	5.009	5.044	5.031	5.034	5.032	5.028	5.027
Max	5.046	5.057	5.050	5.058	5.045	5.043	5.052
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200



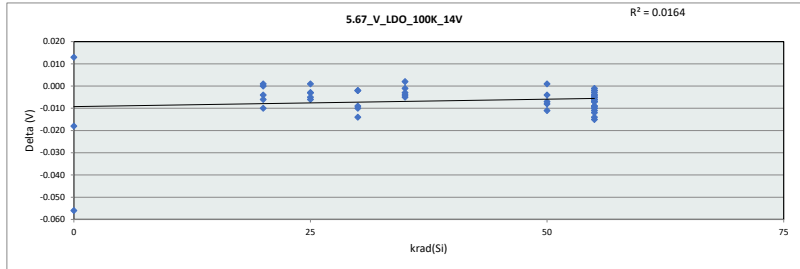
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.67_V_LDO_100K_14V

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

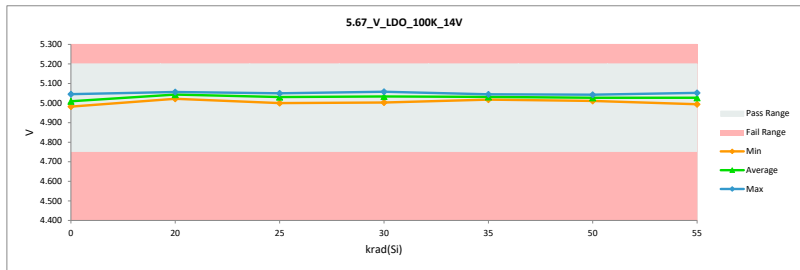
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.033	5.046	0.013
0	51	5.000	4.982	-0.018
0	52	5.056	5.000	-0.056
25	1	5.006	5.000	-0.006
25	2	5.037	5.034	-0.003
25	3	5.049	5.050	0.001
25	4	5.052	5.047	-0.005
25	5	5.028	5.025	-0.003
20	6	5.051	5.045	-0.006
20	7	5.032	5.022	-0.010
20	8	5.056	5.057	0.001
20	9	5.048	5.048	0.000
20	10	5.050	5.046	-0.004
35	11	5.025	5.021	-0.004
35	12	5.048	5.045	-0.003
35	13	5.039	5.034	-0.005
35	14	5.042	5.041	-0.001
35	15	5.016	5.018	0.002
30	16	5.039	5.030	-0.009
30	17	5.017	5.003	-0.014
30	18	5.041	5.039	-0.002
30	19	5.068	5.058	-0.010
30	20	5.042	5.040	-0.002
55	21	5.004	4.994	-0.010
55	22	5.019	5.014	-0.005
55	23	5.035	5.021	-0.014
55	24	5.030	5.018	-0.012
55	25	5.041	5.035	-0.006
55	26	5.021	5.011	-0.010
55	27	5.038	5.036	-0.002
55	28	5.028	5.021	-0.007
55	29	5.045	5.038	-0.007
55	30	5.027	5.023	-0.004
55	31	5.024	5.021	-0.003
55	32	5.011	5.005	-0.006
55	33	5.057	5.048	-0.009
55	34	5.048	5.042	-0.006
55	35	5.053	5.052	-0.001
55	36	5.044	5.035	-0.009
55	37	5.028	5.021	-0.007
55	38	5.032	5.021	-0.011
55	39	5.055	5.051	-0.004
55	40	5.042	5.027	-0.015
55	41	5.030	5.028	-0.002
55	42	5.043	5.038	-0.005
50	43	5.021	5.017	-0.004
50	44	5.022	5.011	-0.011
50	45	5.038	5.031	-0.007
50	46	5.051	5.043	-0.008
50	47	5.035	5.036	0.001
Max		5.068	5.058	0.013
Average		5.036	5.029	-0.007
Min		5.000	4.982	-0.056
Std Dev		0.015	0.017	0.009



5.67_V_LDO_100K_14V

Test Site	
Tester	
Test Number	
Max Limit	5.2
Min Limit	4.75

krad(Si)	0	20	25	30	35	50	55
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.982	5.022	5.000	5.003	5.018	5.011	4.994
Average	5.009	5.044	5.031	5.034	5.032	5.028	5.027
Max	5.046	5.057	5.050	5.058	5.045	5.043	5.052
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200

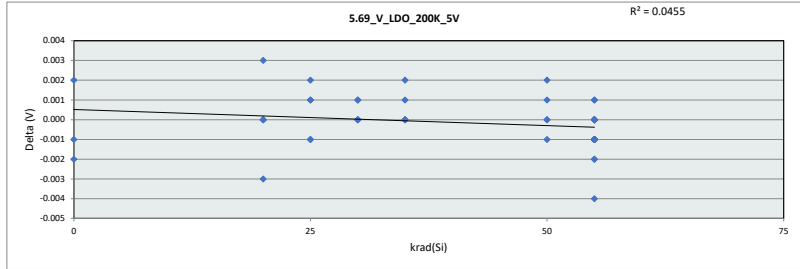


**HDR TID Report
TPS7H5005-SEP**

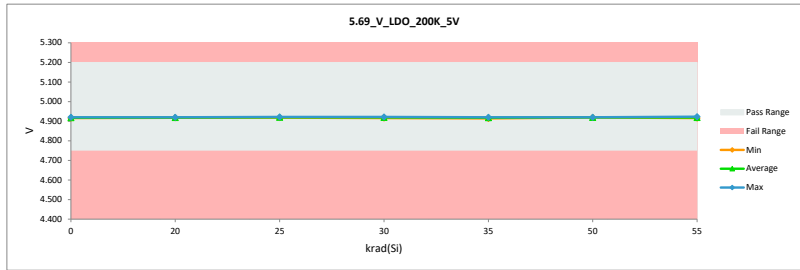
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.69_V_LDO_200K_5V	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	5.2 5.2
Min Limit	4.75 4.75

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	4.921	4.920	-0.001
0	51	4.916	4.918	0.002
0	52	4.918	4.916	-0.002
25	1	4.920	4.921	0.001
25	2	4.920	4.922	0.002
25	3	4.919	4.918	-0.001
25	4	4.921	4.920	-0.001
25	5	4.918	4.919	0.001
20	6	4.920	4.917	-0.003
20	7	4.917	4.917	0.000
20	8	4.919	4.919	0.000
20	9	4.917	4.920	0.003
20	10	4.920	4.920	0.000
35	11	4.919	4.920	0.001
35	12	4.917	4.919	0.002
35	13	4.920	4.920	0.000
35	14	4.914	4.914	0.000
35	15	4.917	4.917	0.000
30	16	4.916	4.916	0.000
30	17	4.919	4.919	0.000
30	18	4.920	4.921	0.001
30	19	4.919	4.920	0.001
30	20	4.922	4.922	0.000
55	21	4.918	4.917	-0.001
55	22	4.918	4.918	0.000
55	23	4.918	4.917	-0.001
55	24	4.922	4.922	0.000
55	25	4.920	4.919	-0.001
55	26	4.921	4.921	0.000
55	27	4.920	4.921	0.001
55	28	4.921	4.917	-0.004
55	29	4.922	4.923	0.001
55	30	4.919	4.919	0.000
55	31	4.922	4.922	0.000
55	32	4.916	4.916	0.000
55	33	4.918	4.916	-0.002
55	34	4.919	4.917	-0.002
55	35	4.921	4.921	0.000
55	36	4.920	4.919	-0.001
55	37	4.921	4.920	-0.001
55	38	4.920	4.919	-0.001
55	39	4.916	4.916	0.000
55	40	4.919	4.918	-0.001
55	41	4.918	4.917	-0.001
55	42	4.919	4.918	-0.001
50	43	4.920	4.919	-0.001
50	44	4.920	4.920	0.000
50	45	4.919	4.919	0.000
50	46	4.919	4.920	0.001
50	47	4.918	4.920	0.002
Max		4.922	4.923	0.003
Average		4.919	4.919	0.000
Min		4.914	4.914	-0.004
Std Dev		0.002	0.002	0.001



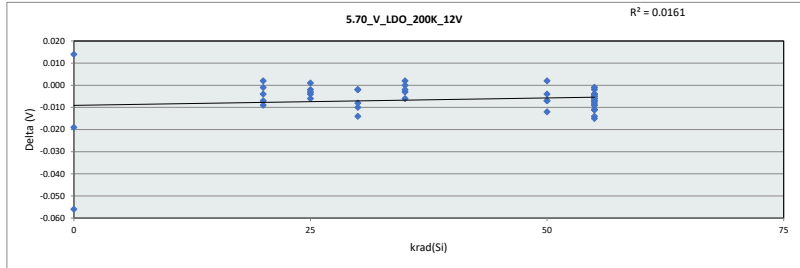
5.69_V_LDO_200K_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		5.2	V					
Min Limit		4.75	V					
krad(Si)		0	20	25	30	35	50	55
LL		4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min		4.916	4.917	4.918	4.916	4.914	4.919	4.916
Average		4.918	4.919	4.920	4.920	4.918	4.920	4.919
Max		4.920	4.920	4.922	4.922	4.920	4.920	4.923
UL		5.200	5.200	5.200	5.200	5.200	5.200	5.200



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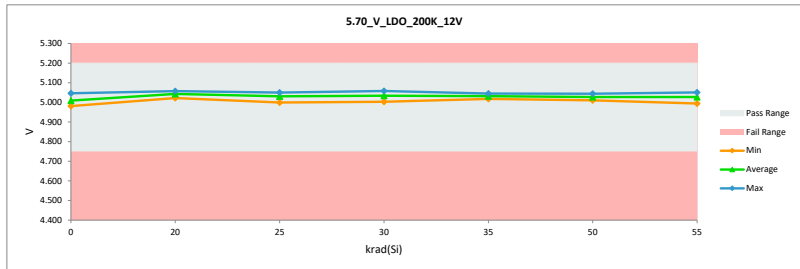
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.70_V_LDO_200K_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.75



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.032	5.046	0.014
0	51	5.000	4.981	-0.019
0	52	5.056	5.000	-0.056
25	1	5.005	4.999	-0.006
25	2	5.036	5.034	-0.002
25	3	5.049	5.050	0.001
25	4	5.051	5.047	-0.004
25	5	5.028	5.025	-0.003
20	6	5.051	5.044	-0.007
20	7	5.031	5.022	-0.009
20	8	5.055	5.057	0.002
20	9	5.048	5.047	-0.001
20	10	5.049	5.045	-0.004
35	11	5.024	5.021	-0.003
35	12	5.047	5.045	-0.002
35	13	5.039	5.033	-0.006
35	14	5.041	5.041	0.000
35	15	5.016	5.018	0.002
30	16	5.038	5.030	-0.008
30	17	5.017	5.003	-0.014
30	18	5.040	5.038	-0.002
30	19	5.068	5.058	-0.010
30	20	5.041	5.039	-0.002
55	21	5.003	4.994	-0.009
55	22	5.018	5.013	-0.005
55	23	5.034	5.020	-0.014
55	24	5.029	5.018	-0.011
55	25	5.040	5.035	-0.005
55	26	5.021	5.010	-0.011
55	27	5.038	5.036	-0.002
55	28	5.027	5.020	-0.007
55	29	5.045	5.038	-0.007
55	30	5.027	5.023	-0.004
55	31	5.024	5.020	-0.004
55	32	5.011	5.005	-0.006
55	33	5.056	5.048	-0.008
55	34	5.048	5.042	-0.006
55	35	5.052	5.051	-0.001
55	36	5.044	5.035	-0.009
55	37	5.027	5.020	-0.007
55	38	5.032	5.021	-0.011
55	39	5.054	5.050	-0.004
55	40	5.041	5.026	-0.015
55	41	5.029	5.028	-0.001
55	42	5.043	5.038	-0.005
50	43	5.020	5.016	-0.004
50	44	5.022	5.010	-0.012
50	45	5.038	5.031	-0.007
50	46	5.051	5.044	-0.007
50	47	5.034	5.036	0.002
	Max	5.068	5.058	0.014
	Average	5.035	5.029	-0.006
	Min	5.000	4.981	-0.056
	Std Dev	0.015	0.017	0.009

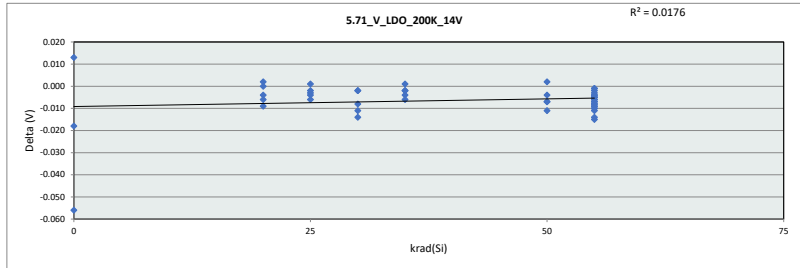
5.70_V_LDO_200K_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	5.2	V						
Min Limit	4.75	V						
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.981	5.022	4.999	5.003	5.018	5.018	5.010	4.994
Average	5.009	5.043	5.031	5.034	5.032	5.027	5.027	5.027
Max	5.046	5.057	5.050	5.058	5.045	5.044	5.051	5.051
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200	5.200



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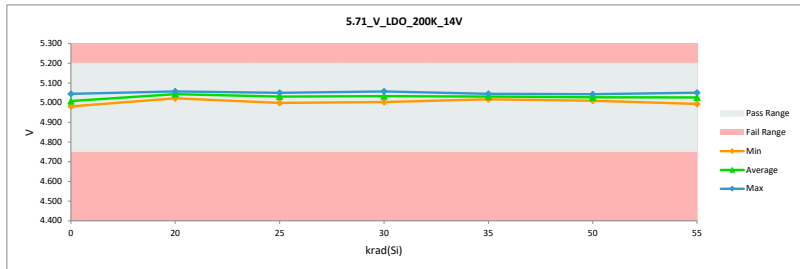
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.71_V_LDO_200K_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.75



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.032	5.045	0.013
0	51	4.999	4.981	-0.018
0	52	5.055	4.999	-0.056
25	1	5.005	4.999	-0.006
25	2	5.036	5.034	-0.002
25	3	5.049	5.050	0.001
25	4	5.051	5.047	-0.004
25	5	5.028	5.025	-0.003
20	6	5.051	5.045	-0.006
20	7	5.031	5.022	-0.009
20	8	5.055	5.057	0.002
20	9	5.047	5.047	0.000
20	10	5.049	5.045	-0.004
35	11	5.024	5.020	-0.004
35	12	5.047	5.045	-0.002
35	13	5.039	5.033	-0.006
35	14	5.042	5.040	-0.002
35	15	5.016	5.017	0.001
30	16	5.038	5.030	-0.008
30	17	5.017	5.003	-0.014
30	18	5.040	5.038	-0.002
30	19	5.068	5.057	-0.011
30	20	5.041	5.039	-0.002
55	21	5.003	4.994	-0.009
55	22	5.018	5.013	-0.005
55	23	5.034	5.020	-0.014
55	24	5.029	5.018	-0.011
55	25	5.040	5.034	-0.006
55	26	5.020	5.010	-0.010
55	27	5.037	5.036	-0.001
55	28	5.027	5.020	-0.007
55	29	5.045	5.038	-0.007
55	30	5.026	5.023	-0.003
55	31	5.024	5.020	-0.004
55	32	5.010	5.005	-0.005
55	33	5.056	5.048	-0.008
55	34	5.047	5.042	-0.005
55	35	5.052	5.051	-0.001
55	36	5.044	5.035	-0.009
55	37	5.028	5.020	-0.008
55	38	5.031	5.021	-0.010
55	39	5.054	5.050	-0.004
55	40	5.041	5.026	-0.015
55	41	5.029	5.027	-0.002
55	42	5.043	5.037	-0.006
50	43	5.020	5.016	-0.004
50	44	5.021	5.010	-0.011
50	45	5.038	5.031	-0.007
50	46	5.050	5.043	-0.007
50	47	5.034	5.036	0.002
	Max	5.068	5.057	0.013
	Average	5.035	5.029	-0.006
	Min	4.999	4.981	-0.056
	Std Dev	0.015	0.017	0.009

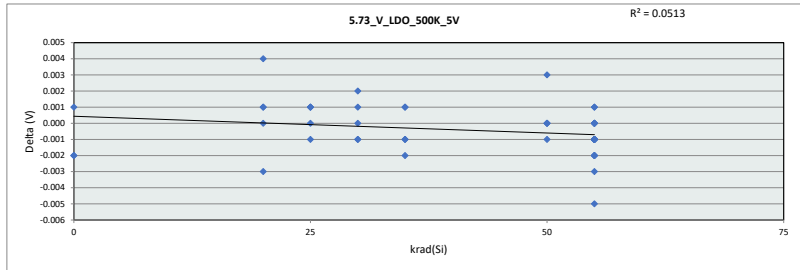
5.71_V_LDO_200K_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	5.2	V						
Min Limit	4.75	V						
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.981	5.022	4.999	5.003	5.017	5.010	4.994	4.994
Average	5.008	5.043	5.031	5.033	5.031	5.027	5.027	5.027
Max	5.045	5.057	5.050	5.057	5.045	5.043	5.051	5.051
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200	5.200



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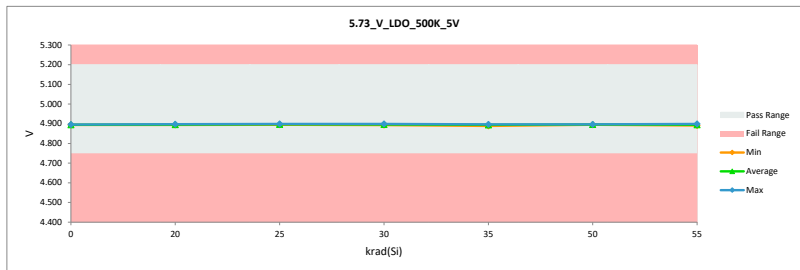
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.73_V_LDO_500K_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.75



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	4.898	4.896	-0.002
0	51	4.894	4.895	0.001
0	52	4.896	4.894	-0.002
25	1	4.898	4.899	0.001
25	2	4.898	4.899	0.001
25	3	4.895	4.895	0.000
25	4	4.898	4.897	-0.001
25	5	4.895	4.896	0.001
20	6	4.897	4.894	-0.003
20	7	4.894	4.894	0.000
20	8	4.895	4.896	0.001
20	9	4.894	4.898	0.004
20	10	4.896	4.897	0.001
35	11	4.896	4.897	0.001
35	12	4.895	4.896	0.001
35	13	4.897	4.896	-0.001
35	14	4.891	4.889	-0.002
35	15	4.895	4.894	-0.001
30	16	4.894	4.893	-0.001
30	17	4.897	4.896	-0.001
30	18	4.896	4.898	0.002
30	19	4.896	4.897	0.001
30	20	4.899	4.899	0.000
55	21	4.894	4.893	-0.001
55	22	4.895	4.895	0.000
55	23	4.895	4.893	-0.002
55	24	4.898	4.899	0.001
55	25	4.896	4.895	-0.001
55	26	4.898	4.897	-0.001
55	27	4.896	4.897	0.001
55	28	4.897	4.892	-0.005
55	29	4.899	4.899	0.000
55	30	4.895	4.895	0.000
55	31	4.898	4.898	0.000
55	32	4.893	4.891	-0.002
55	33	4.895	4.893	-0.002
55	34	4.896	4.893	-0.003
55	35	4.898	4.897	-0.001
55	36	4.896	4.895	-0.001
55	37	4.897	4.897	0.000
55	38	4.897	4.895	-0.002
55	39	4.893	4.892	-0.001
55	40	4.896	4.895	-0.001
55	41	4.895	4.894	-0.001
55	42	4.895	4.894	-0.001
50	43	4.896	4.896	0.000
50	44	4.897	4.896	-0.001
50	45	4.895	4.895	0.000
50	46	4.896	4.896	0.000
50	47	4.894	4.897	0.003
Max		4.899	4.899	0.004
Average		4.896	4.895	0.000
Min		4.891	4.889	-0.005
Std Dev		0.002	0.002	0.002

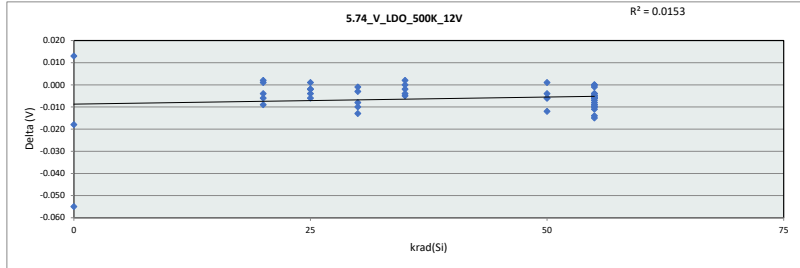
5.73_V_LDO_500K_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	5.2	V						
Min Limit	4.75	V						
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.894	4.894	4.895	4.893	4.889	4.895	4.891	
Average	4.895	4.896	4.897	4.897	4.894	4.896	4.895	
Max	4.896	4.898	4.899	4.899	4.897	4.897	4.899	
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200	5.200



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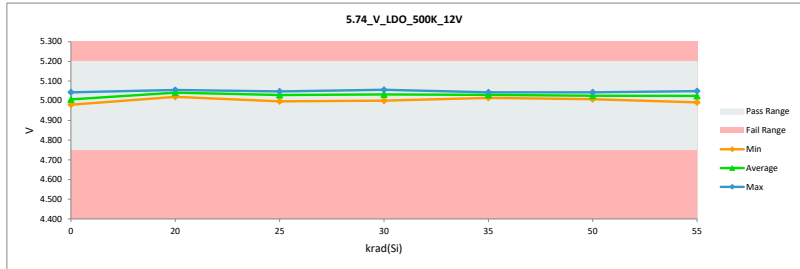
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.74_V_LDO_500K_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.75



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.030	5.043	0.013
0	51	4.998	4.980	-0.018
0	52	5.053	4.998	-0.055
25	1	5.003	4.997	-0.006
25	2	5.034	5.032	-0.002
25	3	5.047	5.048	0.001
25	4	5.049	5.045	-0.004
25	5	5.025	5.023	-0.002
20	6	5.049	5.043	-0.006
20	7	5.029	5.020	-0.009
20	8	5.053	5.055	0.002
20	9	5.045	5.046	0.001
20	10	5.047	5.043	-0.004
35	11	5.023	5.019	-0.004
35	12	5.045	5.043	-0.002
35	13	5.037	5.032	-0.005
35	14	5.040	5.040	0.000
35	15	5.013	5.015	0.002
30	16	5.037	5.029	-0.008
30	17	5.014	5.001	-0.013
30	18	5.038	5.037	-0.001
30	19	5.066	5.056	-0.010
30	20	5.040	5.037	-0.003
55	21	5.002	4.992	-0.010
55	22	5.016	5.011	-0.005
55	23	5.032	5.018	-0.014
55	24	5.027	5.016	-0.011
55	25	5.038	5.032	-0.006
55	26	5.019	5.010	-0.009
55	27	5.035	5.035	0.000
55	28	5.025	5.018	-0.007
55	29	5.042	5.036	-0.006
55	30	5.025	5.021	-0.004
55	31	5.022	5.018	-0.004
55	32	5.009	5.003	-0.006
55	33	5.054	5.046	-0.008
55	34	5.046	5.040	-0.006
55	35	5.049	5.049	0.000
55	36	5.042	5.033	-0.009
55	37	5.025	5.019	-0.006
55	38	5.030	5.020	-0.010
55	39	5.053	5.048	-0.005
55	40	5.040	5.025	-0.015
55	41	5.027	5.026	-0.001
55	42	5.041	5.036	-0.005
50	43	5.018	5.014	-0.004
50	44	5.020	5.008	-0.012
50	45	5.035	5.029	-0.006
50	46	5.049	5.043	-0.006
50	47	5.033	5.034	0.001
Max		5.066	5.056	0.013
Average		5.033	5.027	-0.006
Min		4.998	4.980	-0.055
Std Dev		0.015	0.017	0.009

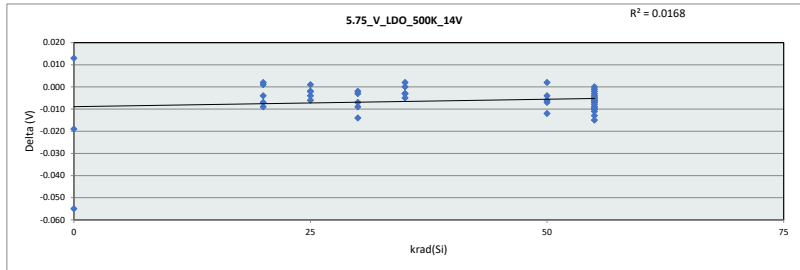
5.74_V_LDO_500K_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	5.2	V						
Min Limit	4.75	V						
krad(Si)								
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.980	5.020	4.997	5.001	5.015	5.008	4.992	4.992
Average	5.007	5.041	5.029	5.032	5.030	5.026	5.025	5.025
Max	5.043	5.055	5.048	5.056	5.043	5.043	5.049	5.049
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200	5.200



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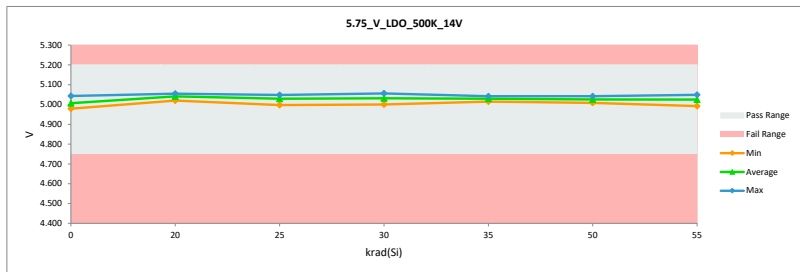
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.75_V_LDO_500K_14V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.75	4.75



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.030	5.043	0.013
0	51	4.998	4.979	-0.019
0	52	5.053	4.998	-0.055
25	1	5.003	4.997	-0.006
25	2	5.034	5.032	-0.002
25	3	5.047	5.048	0.001
25	4	5.049	5.045	-0.004
25	5	5.025	5.023	-0.002
20	6	5.049	5.042	-0.007
20	7	5.029	5.020	-0.009
20	8	5.053	5.055	0.002
20	9	5.045	5.046	0.001
20	10	5.047	5.043	-0.004
35	11	5.022	5.019	-0.003
35	12	5.045	5.042	-0.003
35	13	5.037	5.032	-0.005
35	14	5.039	5.039	0.000
35	15	5.013	5.015	0.002
30	16	5.036	5.029	-0.007
30	17	5.014	5.000	-0.014
30	18	5.038	5.036	-0.002
30	19	5.065	5.056	-0.009
30	20	5.040	5.037	-0.003
55	21	5.002	4.992	-0.010
55	22	5.016	5.010	-0.006
55	23	5.031	5.018	-0.013
55	24	5.026	5.016	-0.010
55	25	5.038	5.032	-0.006
55	26	5.019	5.010	-0.009
55	27	5.036	5.034	-0.002
55	28	5.025	5.018	-0.007
55	29	5.043	5.036	-0.007
55	30	5.025	5.021	-0.004
55	31	5.021	5.018	-0.003
55	32	5.008	5.003	-0.005
55	33	5.054	5.046	-0.008
55	34	5.046	5.040	-0.006
55	35	5.049	5.049	0.000
55	36	5.042	5.033	-0.009
55	37	5.025	5.018	-0.007
55	38	5.030	5.019	-0.011
55	39	5.052	5.048	-0.004
55	40	5.040	5.025	-0.015
55	41	5.027	5.026	-0.001
55	42	5.041	5.036	-0.005
50	43	5.018	5.014	-0.004
50	44	5.020	5.008	-0.012
50	45	5.035	5.029	-0.006
50	46	5.049	5.042	-0.007
50	47	5.032	5.034	0.002
Max		5.065	5.056	0.013
Average		5.033	5.027	-0.006
Min		4.998	4.979	-0.055
Std Dev		0.015	0.017	0.009

5.75_V_LDO_500K_14V							
Test Site							
Tester							
Test Number							
Max Limit	5.2	V					
Min Limit	4.75	V					
krad(Si)	0	20	25	30	35	50	55
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.979	5.020	4.997	5.000	5.015	5.008	4.992
Average	5.007	5.041	5.029	5.032	5.029	5.025	5.025
Max	5.043	5.055	5.048	5.056	5.042	5.042	5.049
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200

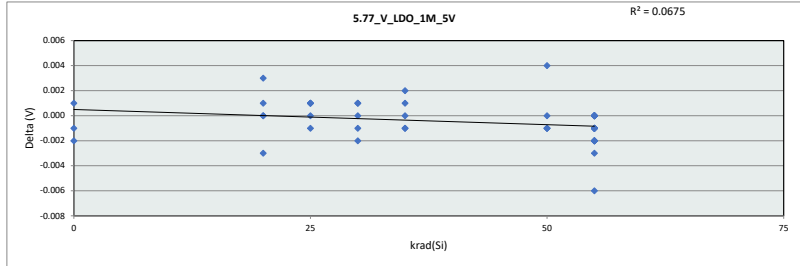


**HDR TID Report
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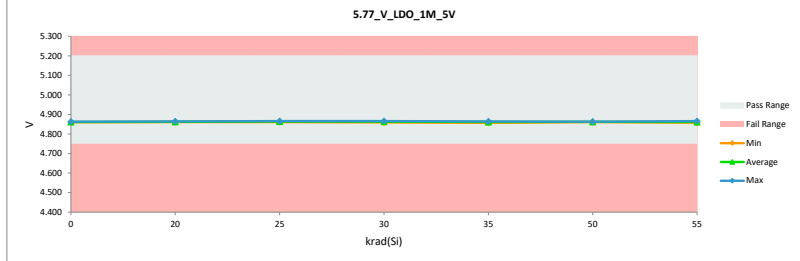
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.77_V_LDO_1M_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.75

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	4.864	4.863	-0.001
0	51	4.860	4.861	0.001
0	52	4.862	4.860	-0.002
25	1	4.865	4.866	0.001
25	2	4.865	4.866	0.001
25	3	4.862	4.861	-0.001
25	4	4.864	4.864	0.000
25	5	4.862	4.863	0.001
20	6	4.864	4.861	-0.003
20	7	4.861	4.861	0.000
20	8	4.862	4.862	0.000
20	9	4.861	4.864	0.003
20	10	4.863	4.864	0.001
35	11	4.863	4.864	0.001
35	12	4.861	4.863	0.002
35	13	4.864	4.863	-0.001
35	14	4.858	4.857	-0.001
35	15	4.861	4.861	0.000
30	16	4.861	4.859	-0.002
30	17	4.864	4.863	-0.001
30	18	4.863	4.864	0.001
30	19	4.863	4.864	0.001
30	20	4.866	4.866	0.000
55	21	4.861	4.859	-0.002
55	22	4.862	4.862	0.000
55	23	4.861	4.859	-0.002
55	24	4.866	4.866	0.000
55	25	4.863	4.862	-0.001
55	26	4.864	4.864	0.000
55	27	4.863	4.863	0.000
55	28	4.864	4.858	-0.006
55	29	4.866	4.866	0.000
55	30	4.862	4.861	-0.001
55	31	4.866	4.864	-0.002
55	32	4.860	4.859	-0.001
55	33	4.861	4.859	-0.002
55	34	4.862	4.859	-0.003
55	35	4.864	4.863	-0.001
55	36	4.862	4.862	0.000
55	37	4.863	4.863	0.000
55	38	4.863	4.862	-0.001
55	39	4.859	4.859	0.000
55	40	4.862	4.861	-0.001
55	41	4.862	4.860	-0.002
55	42	4.862	4.861	-0.001
50	43	4.863	4.862	-0.001
50	44	4.863	4.862	-0.001
50	45	4.862	4.861	-0.001
50	46	4.862	4.862	0.000
50	47	4.859	4.863	0.004
Max		4.866	4.866	0.004
Average		4.863	4.862	0.000
Min		4.858	4.857	-0.006
Std Dev		0.002	0.002	0.002



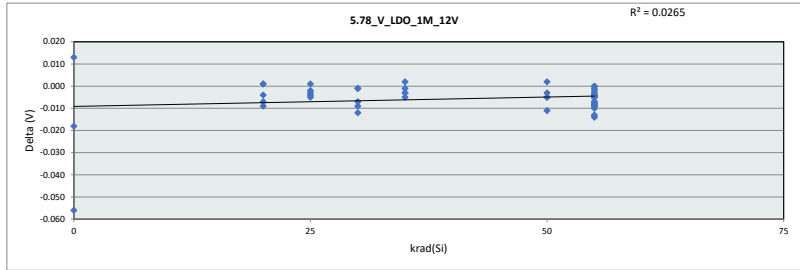
5.77_V_LDO_1M_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		5.2	V					
Min Limit		4.75	V					
krad(Si)		0	20	25	30	35	50	55
LL		4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min		4.860	4.861	4.861	4.861	4.857	4.861	4.858
Average		4.861	4.862	4.864	4.863	4.862	4.862	4.861
Max		4.863	4.864	4.866	4.866	4.864	4.864	4.866
UL		5.200	5.200	5.200	5.200	5.200	5.200	5.200



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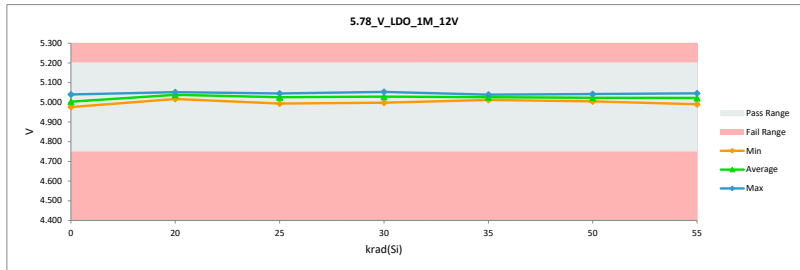
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.78_V_LDO_1M_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.75



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.027	5.040	0.013
0	51	4.994	4.976	-0.018
0	52	5.050	4.994	-0.056
25	1	4.999	4.994	-0.005
25	2	5.031	5.029	-0.002
25	3	5.044	5.045	0.001
25	4	5.046	5.042	-0.004
25	5	5.022	5.019	-0.003
20	6	5.046	5.039	-0.007
20	7	5.026	5.017	-0.009
20	8	5.051	5.052	0.001
20	9	5.042	5.043	0.001
20	10	5.044	5.040	-0.004
35	11	5.019	5.016	-0.003
35	12	5.042	5.039	-0.003
35	13	5.034	5.029	-0.005
35	14	5.036	5.035	-0.001
35	15	5.010	5.012	0.002
30	16	5.034	5.027	-0.007
30	17	5.010	4.998	-0.012
30	18	5.035	5.034	-0.001
30	19	5.062	5.053	-0.009
30	20	5.036	5.035	-0.001
55	21	4.999	4.990	-0.009
55	22	5.012	5.007	-0.005
55	23	5.027	5.014	-0.013
55	24	5.023	5.013	-0.010
55	25	5.034	5.030	-0.004
55	26	5.016	5.008	-0.008
55	27	5.032	5.032	0.000
55	28	5.022	5.015	-0.007
55	29	5.039	5.034	-0.005
55	30	5.021	5.019	-0.002
55	31	5.019	5.015	-0.004
55	32	5.005	5.000	-0.005
55	33	5.051	5.043	-0.008
55	34	5.043	5.038	-0.005
55	35	5.045	5.045	0.000
55	36	5.040	5.031	-0.009
55	37	5.022	5.015	-0.007
55	38	5.027	5.018	-0.009
55	39	5.049	5.046	-0.003
55	40	5.036	5.022	-0.014
55	41	5.024	5.023	-0.001
55	42	5.037	5.032	-0.005
50	43	5.014	5.011	-0.003
50	44	5.016	5.005	-0.011
50	45	5.032	5.027	-0.005
50	46	5.047	5.042	-0.005
50	47	5.030	5.032	0.002
Max		5.062	5.053	0.013
Average		5.030	5.024	-0.006
Min		4.994	4.976	-0.056
Std Dev		0.015	0.017	0.009

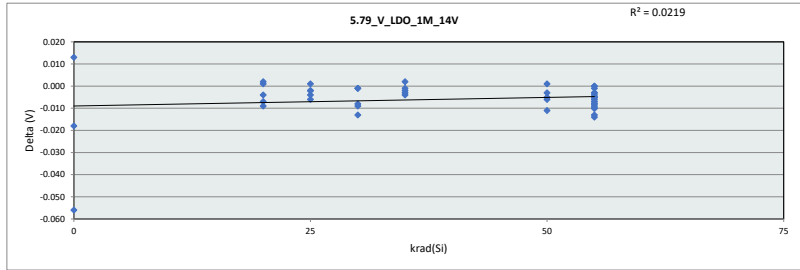
5.78_V_LDO_1M_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	5.2	V						
Min Limit	4.75	V						
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.976	5.017	4.994	4.998	5.012	5.005	5.005	4.990
Average	5.003	5.038	5.026	5.029	5.026	5.023	5.022	5.022
Max	5.040	5.052	5.045	5.045	5.039	5.042	5.046	5.046
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200	5.200



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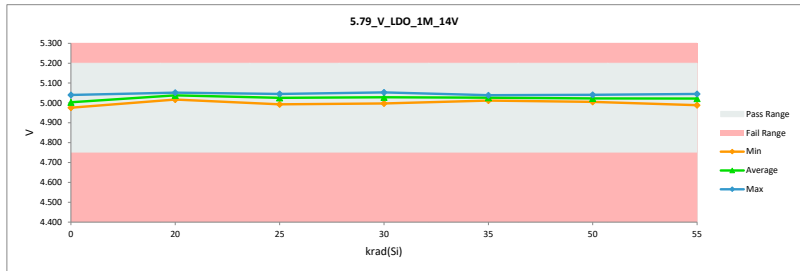
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.79_V_LDO_1M_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.75



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.027	5.040	0.013
0	51	4.994	4.976	-0.018
0	52	5.050	4.994	-0.056
25	1	4.999	4.993	-0.006
25	2	5.031	5.029	-0.002
25	3	5.044	5.045	0.001
25	4	5.046	5.042	-0.004
25	5	5.021	5.019	-0.002
20	6	5.046	5.039	-0.007
20	7	5.026	5.017	-0.009
20	8	5.050	5.052	0.002
20	9	5.042	5.043	0.001
20	10	5.044	5.040	-0.004
35	11	5.019	5.016	-0.003
35	12	5.041	5.039	-0.002
35	13	5.033	5.029	-0.004
35	14	5.036	5.035	-0.001
35	15	5.010	5.012	0.002
30	16	5.034	5.026	-0.008
30	17	5.010	4.997	-0.013
30	18	5.034	5.033	-0.001
30	19	5.062	5.053	-0.009
30	20	5.036	5.035	-0.001
55	21	4.999	4.989	-0.010
55	22	5.012	5.007	-0.005
55	23	5.027	5.014	-0.013
55	24	5.023	5.013	-0.010
55	25	5.034	5.029	-0.005
55	26	5.016	5.008	-0.008
55	27	5.032	5.032	0.000
55	28	5.022	5.015	-0.007
55	29	5.039	5.034	-0.005
55	30	5.021	5.018	-0.003
55	31	5.018	5.015	-0.003
55	32	5.005	5.000	-0.005
55	33	5.051	5.043	-0.008
55	34	5.043	5.037	-0.006
55	35	5.045	5.045	0.000
55	36	5.039	5.030	-0.009
55	37	5.022	5.015	-0.007
55	38	5.027	5.017	-0.010
55	39	5.049	5.045	-0.004
55	40	5.036	5.022	-0.014
55	41	5.024	5.023	-0.001
55	42	5.037	5.032	-0.005
50	43	5.014	5.011	-0.003
50	44	5.016	5.005	-0.011
50	45	5.031	5.026	-0.005
50	46	5.047	5.041	-0.006
50	47	5.030	5.031	0.001
	Max	5.062	5.053	0.013
	Average	5.030	5.024	-0.006
	Min	4.994	4.976	-0.056
	Std Dev	0.015	0.017	0.009

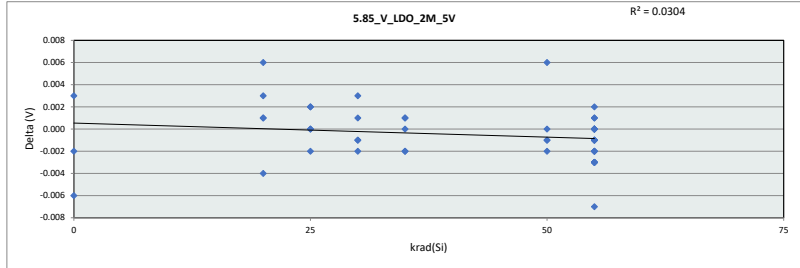
5.79_V_LDO_1M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	5.2	V						
Min Limit	4.75	V						
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.976	5.017	4.993	4.997	5.012	5.012	5.005	4.989
Average	5.003	5.038	5.026	5.029	5.026	5.026	5.023	5.022
Max	5.040	5.052	5.045	5.045	5.053	5.039	5.041	5.045
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200	5.200



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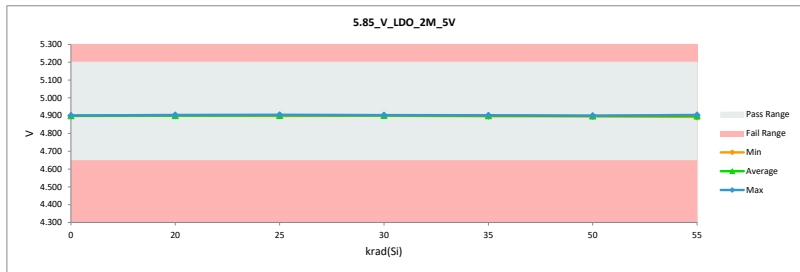
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.85_V_LDO_2M_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	5.2
Min Limit	4.65



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	4.902	4.900	-0.002
0	51	4.898	4.901	0.003
0	52	4.904	4.898	-0.006
25	1	4.902	4.904	0.002
25	2	4.903	4.905	0.002
25	3	4.900	4.898	-0.002
25	4	4.902	4.902	0.000
25	5	4.899	4.899	0.000
20	6	4.903	4.899	-0.004
20	7	4.897	4.900	0.003
20	8	4.899	4.900	0.001
20	9	4.898	4.904	0.006
20	10	4.901	4.902	0.001
35	11	4.901	4.902	0.001
35	12	4.900	4.901	0.001
35	13	4.901	4.901	0.000
35	14	4.899	4.897	-0.002
35	15	4.899	4.897	-0.002
30	16	4.901	4.899	-0.002
30	17	4.901	4.900	-0.001
30	18	4.900	4.903	0.003
30	19	4.900	4.901	0.001
30	20	4.904	4.903	-0.001
55	21	4.899	4.897	-0.002
55	22	4.899	4.900	0.001
55	23	4.897	4.895	-0.002
55	24	4.904	4.904	0.000
55	25	4.902	4.902	0.000
55	26	4.901	4.902	0.001
55	27	4.900	4.902	0.002
55	28	4.900	4.893	-0.007
55	29	4.903	4.902	-0.001
55	30	4.899	4.896	-0.003
55	31	4.903	4.900	-0.003
55	32	4.901	4.900	-0.001
55	33	4.899	4.898	-0.001
55	34	4.898	4.895	-0.003
55	35	4.901	4.899	-0.002
55	36	4.899	4.899	0.000
55	37	4.900	4.900	0.000
55	38	4.900	4.897	-0.003
55	39	4.898	4.898	0.000
55	40	4.899	4.899	0.000
55	41	4.899	4.896	-0.003
55	42	4.898	4.897	-0.001
50	43	4.900	4.899	-0.001
50	44	4.899	4.898	-0.001
50	45	4.898	4.896	-0.002
50	46	4.899	4.899	0.000
50	47	4.894	4.900	0.006
Max		4.904	4.905	0.006
Average		4.900	4.900	0.000
Min		4.894	4.893	-0.007
Std Dev		0.002	0.003	0.002

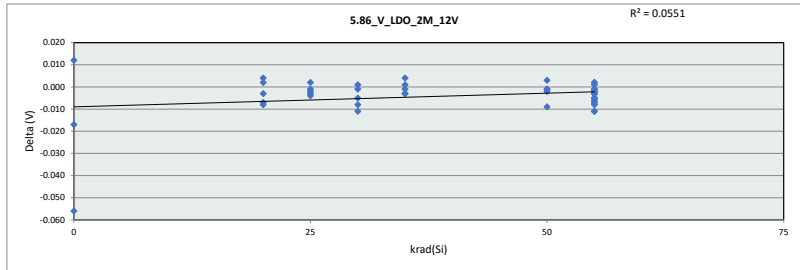
5.85_V_LDO_2M_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	5.2	V						
Min Limit	4.65	V						
krad(Si)		0	20	25	30	35	50	55
LL		4.650	4.650	4.650	4.650	4.650	4.650	4.650
Min		4.898	4.899	4.898	4.899	4.897	4.896	4.893
Average		4.900	4.901	4.902	4.901	4.900	4.898	4.899
Max		4.901	4.904	4.905	4.903	4.902	4.900	4.904
UL		5.200	5.200	5.200	5.200	5.200	5.200	5.200



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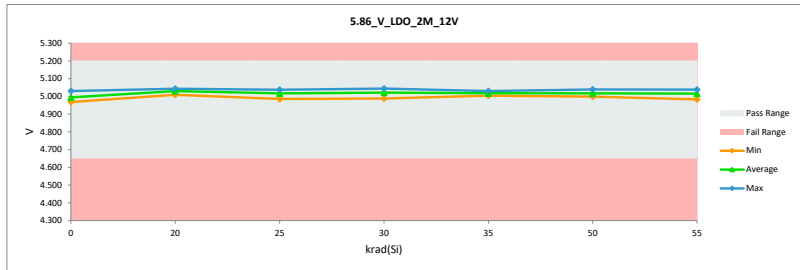
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.86_V_LDO_2M_12V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.65	4.65



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.018	5.030	0.012
0	51	4.985	4.968	-0.017
0	52	5.041	4.985	-0.056
25	1	4.989	4.985	-0.004
25	2	5.023	5.021	-0.002
25	3	5.035	5.037	0.002
25	4	5.037	5.034	-0.003
25	5	5.011	5.010	-0.001
20	6	5.038	5.030	-0.008
20	7	5.016	5.009	-0.007
20	8	5.041	5.043	0.002
20	9	5.032	5.036	0.004
20	10	5.034	5.031	-0.003
35	11	5.011	5.008	-0.003
35	12	5.031	5.030	-0.001
35	13	5.024	5.021	-0.003
35	14	5.026	5.027	0.001
35	15	5.000	5.004	0.004
30	16	5.025	5.020	-0.005
30	17	4.999	4.988	-0.011
30	18	5.025	5.026	0.001
30	19	5.052	5.044	-0.008
30	20	5.028	5.027	-0.001
55	21	4.990	4.983	-0.007
55	22	5.001	4.998	-0.003
55	23	5.016	5.005	-0.011
55	24	5.013	5.005	-0.008
55	25	5.024	5.023	-0.001
55	26	5.008	5.005	-0.003
55	27	5.024	5.026	0.002
55	28	5.013	5.008	-0.005
55	29	5.029	5.027	-0.002
55	30	5.013	5.012	-0.001
55	31	5.009	5.007	-0.002
55	32	4.996	4.994	-0.002
55	33	5.042	5.036	-0.006
55	34	5.034	5.031	-0.003
55	35	5.035	5.036	0.001
55	36	5.031	5.024	-0.007
55	37	5.012	5.007	-0.005
55	38	5.019	5.012	-0.007
55	39	5.040	5.038	-0.002
55	40	5.027	5.016	-0.011
55	41	5.016	5.018	0.002
55	42	5.028	5.025	-0.003
50	43	5.005	5.003	-0.002
50	44	5.007	4.998	-0.009
50	45	5.021	5.020	-0.001
50	46	5.040	5.039	-0.001
50	47	5.022	5.025	0.003
	Max	5.052	5.044	0.012
	Average	5.021	5.017	-0.004
	Min	4.985	4.968	-0.056
	Std Dev	0.015	0.017	0.009

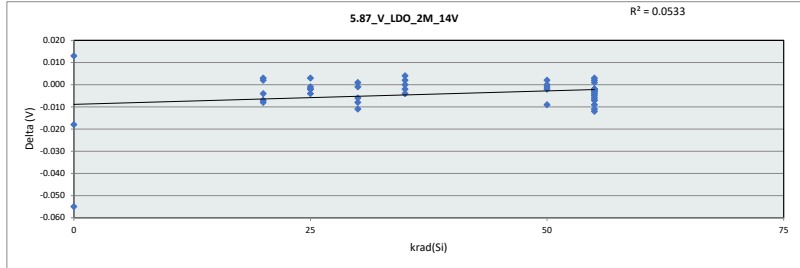
5.86_V_LDO_2M_12V							
Test Site							
Tester							
Test Number							
Max Limit	5.2	V					
Min Limit	4.65	V					
krad(Si)	0	20	25	30	35	50	55
LL	4.650	4.650	4.650	4.650	4.650	4.650	4.650
Min	4.968	5.009	4.985	4.988	5.004	4.998	4.983
Average	4.994	5.030	5.017	5.021	5.018	5.017	5.015
Max	5.030	5.043	5.037	5.044	5.030	5.039	5.038
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200



**HDR TID Report
TPS7H5005-SEP**

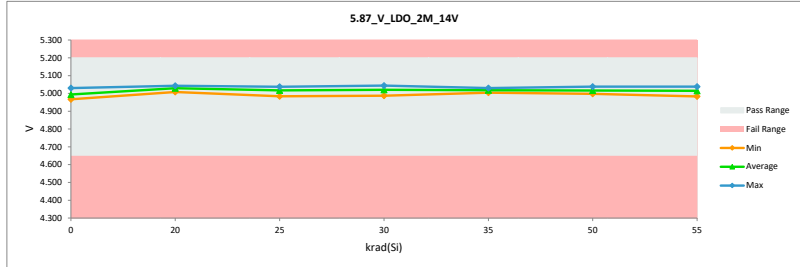
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.87_V_LDO_2M_14V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.65	4.65



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.017	5.030	0.013
0	51	4.985	4.967	-0.018
0	52	5.040	4.985	-0.055
25	1	4.988	4.984	-0.004
25	2	5.022	5.021	-0.001
25	3	5.034	5.037	0.003
25	4	5.036	5.034	-0.002
25	5	5.011	5.009	-0.002
20	6	5.037	5.030	-0.007
20	7	5.016	5.008	-0.008
20	8	5.041	5.043	0.002
20	9	5.032	5.035	0.003
20	10	5.034	5.030	-0.004
35	11	5.010	5.008	-0.002
35	12	5.030	5.030	0.000
35	13	5.024	5.020	-0.004
35	14	5.025	5.027	0.002
35	15	5.000	5.004	0.004
30	16	5.025	5.019	-0.006
30	17	4.998	4.987	-0.011
30	18	5.025	5.026	0.001
30	19	5.052	5.044	-0.008
30	20	5.028	5.027	-0.001
55	21	4.990	4.983	-0.007
55	22	5.001	4.998	-0.003
55	23	5.016	5.005	-0.011
55	24	5.013	5.004	-0.009
55	25	5.024	5.022	-0.002
55	26	5.008	5.005	-0.003
55	27	5.023	5.026	0.003
55	28	5.012	5.008	-0.004
55	29	5.029	5.027	-0.002
55	30	5.013	5.011	-0.002
55	31	5.009	5.007	-0.002
55	32	4.996	4.993	-0.003
55	33	5.041	5.036	-0.005
55	34	5.034	5.031	-0.003
55	35	5.034	5.036	0.002
55	36	5.030	5.024	-0.006
55	37	5.011	5.007	-0.004
55	38	5.019	5.012	-0.007
55	39	5.040	5.038	-0.002
55	40	5.027	5.015	-0.012
55	41	5.016	5.017	0.001
55	42	5.028	5.025	-0.003
50	43	5.004	5.003	-0.001
50	44	5.007	4.998	-0.009
50	45	5.020	5.020	0.000
50	46	5.040	5.038	-0.002
50	47	5.022	5.024	0.002
	Max	5.052	5.044	0.013
	Average	5.020	5.016	-0.004
	Min	4.985	4.967	-0.055
	Std Dev	0.015	0.017	0.009

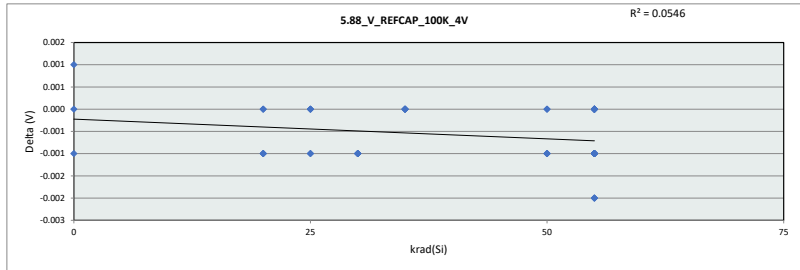
5.87_V_LDO_2M_14V							
Test Site							
Tester							
Test Number							
Max Limit	5.2	V					
Min Limit	4.65	V					
krad(Si)	0	20	25	30	35	50	55
LL	4.650	4.650	4.650	4.650	4.650	4.650	4.650
Min	4.967	5.008	4.984	4.987	5.004	4.998	4.983
Average	4.994	5.029	5.017	5.021	5.018	5.017	5.015
Max	5.030	5.043	5.037	5.044	5.030	5.038	5.038
UL	5.200	5.200	5.200	5.200	5.200	5.200	5.200



**HDR TID Report
TPS7H5005-SEP**

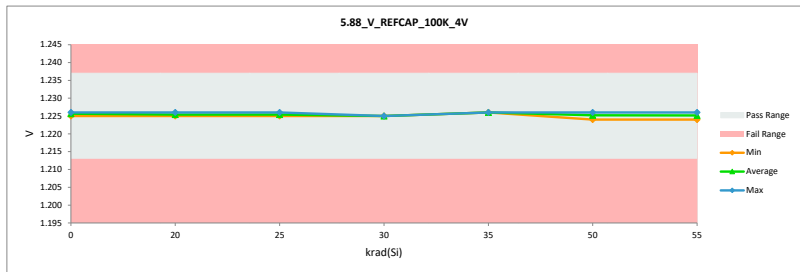
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.88_V_REFCAP_100K_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.226	1.226	0.000
0	51	1.225	1.226	0.001
0	52	1.226	1.225	-0.001
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.225	-0.001
25	4	1.226	1.226	0.000
25	5	1.225	1.225	0.000
20	6	1.226	1.225	-0.001
20	7	1.226	1.226	0.000
20	8	1.226	1.225	-0.001
20	9	1.226	1.225	-0.001
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.226	1.226	0.000
35	15	1.226	1.226	0.000
30	16	1.226	1.225	-0.001
30	17	1.226	1.225	-0.001
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.226	1.225	-0.001
55	24	1.226	1.224	-0.002
55	25	1.226	1.226	0.000
55	26	1.226	1.226	0.000
55	27	1.226	1.226	0.000
55	28	1.226	1.225	-0.001
55	29	1.226	1.226	0.000
55	30	1.226	1.226	0.000
55	31	1.226	1.225	-0.001
55	32	1.226	1.225	-0.001
55	33	1.225	1.225	0.000
55	34	1.226	1.224	-0.002
55	35	1.226	1.225	-0.001
55	36	1.225	1.225	0.000
55	37	1.226	1.225	-0.001
55	38	1.226	1.225	-0.001
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.226	1.226	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.226	0.000
50	46	1.226	1.226	0.000
50	47	1.225	1.224	-0.001
Max		1.226	1.226	0.001
Average		1.226	1.225	-0.001
Min		1.225	1.224	-0.002
Std Dev		0.000	0.001	0.001

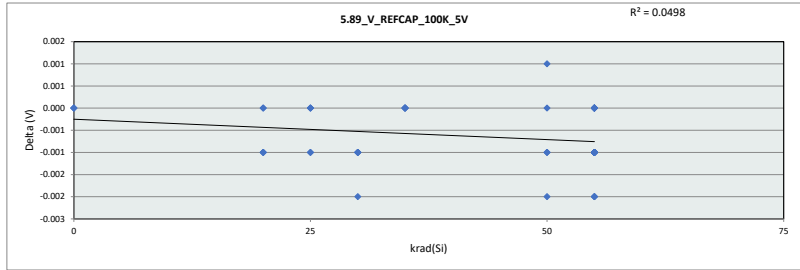
5.88_V_REFCAP_100K_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		1.237	V					
Min Limit		1.213	V					
krad(Si)		0	20	25	30	35	50	55
LL		1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min		1.225	1.225	1.225	1.225	1.226	1.224	1.224
Average		1.226	1.225	1.225	1.225	1.226	1.225	1.225
Max		1.226	1.226	1.226	1.226	1.226	1.226	1.226
UL		1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
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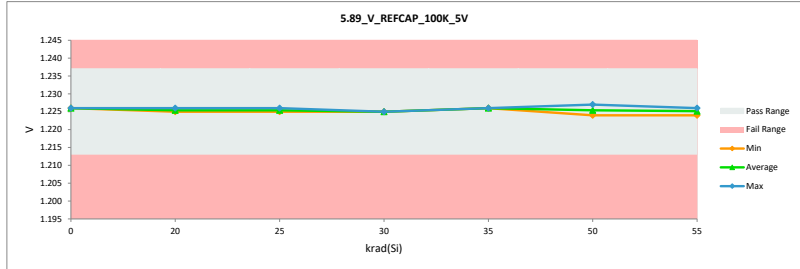
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.89_V_REFCAP_100K_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.226	1.226	0.000
0	51	1.226	1.226	0.000
0	52	1.226	1.226	0.000
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.225	-0.001
25	4	1.226	1.226	0.000
25	5	1.225	1.225	0.000
20	6	1.226	1.225	-0.001
20	7	1.226	1.226	0.000
20	8	1.226	1.225	-0.001
20	9	1.226	1.225	-0.001
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.226	1.226	0.000
35	15	1.226	1.226	0.000
30	16	1.226	1.225	-0.001
30	17	1.227	1.225	-0.002
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.226	1.225	-0.001
55	24	1.226	1.224	-0.002
55	25	1.226	1.226	0.000
55	26	1.226	1.226	0.000
55	27	1.226	1.226	0.000
55	28	1.226	1.225	-0.001
55	29	1.226	1.226	0.000
55	30	1.226	1.226	0.000
55	31	1.226	1.225	-0.001
55	32	1.226	1.225	-0.001
55	33	1.225	1.225	0.000
55	34	1.226	1.224	-0.002
55	35	1.226	1.225	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.225	-0.001
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.226	1.226	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.227	0.001
50	46	1.226	1.226	0.000
50	47	1.226	1.224	-0.002
Max		1.227	1.227	0.001
Average		1.226	1.225	-0.001
Min		1.225	1.224	-0.002
Std Dev		0.000	0.001	0.001

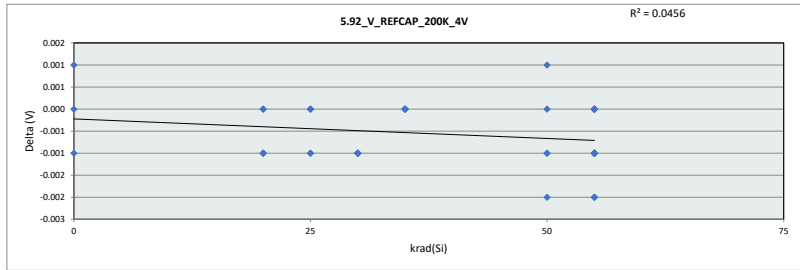
5.89_V_REFCAP_100K_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		1.237	V					
Min Limit		1.213	V					
krad(Si)		0	20	25	30	35	50	55
LL		1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min		1.226	1.225	1.225	1.225	1.226	1.224	1.224
Average		1.226	1.225	1.225	1.225	1.226	1.225	1.225
Max		1.226	1.226	1.226	1.226	1.226	1.227	1.226
UL		1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
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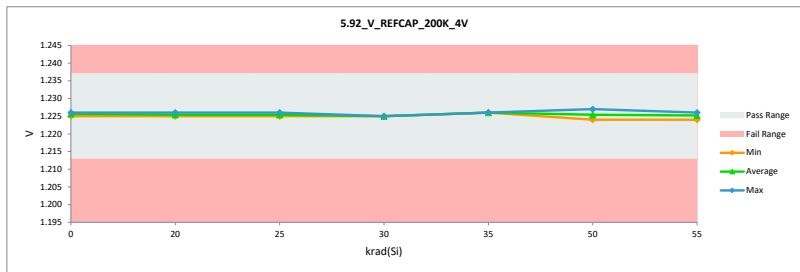
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.92_V_REFCAP_200K_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.226	1.226	0.000
0	51	1.225	1.226	0.001
0	52	1.226	1.225	-0.001
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.225	-0.001
25	4	1.226	1.226	0.000
25	5	1.225	1.225	0.000
20	6	1.226	1.225	-0.001
20	7	1.226	1.226	0.000
20	8	1.226	1.225	-0.001
20	9	1.226	1.225	-0.001
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.226	1.226	0.000
35	15	1.226	1.226	0.000
30	16	1.226	1.225	-0.001
30	17	1.226	1.225	-0.001
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.226	1.225	-0.001
55	24	1.226	1.224	-0.002
55	25	1.226	1.226	0.000
55	26	1.226	1.226	0.000
55	27	1.226	1.226	0.000
55	28	1.226	1.225	-0.001
55	29	1.226	1.226	0.000
55	30	1.226	1.226	0.000
55	31	1.226	1.225	-0.001
55	32	1.226	1.225	-0.001
55	33	1.225	1.225	0.000
55	34	1.226	1.224	-0.002
55	35	1.226	1.225	-0.001
55	36	1.225	1.225	0.000
55	37	1.226	1.225	-0.001
55	38	1.226	1.225	-0.001
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.226	1.226	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.227	0.001
50	46	1.226	1.226	0.000
50	47	1.226	1.224	-0.002
	Max	1.226	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.224	-0.002
	Std Dev	0.000	0.001	0.001

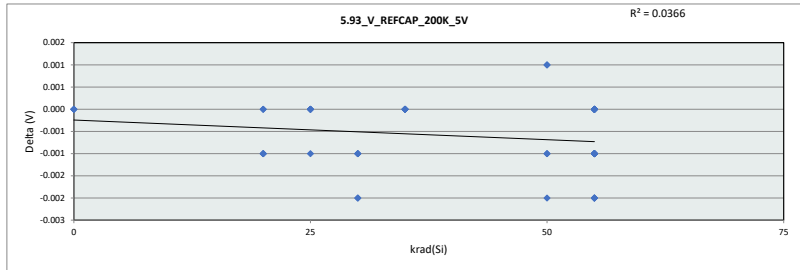
5.92_V_REFCAP_200K_4V							
Test Site							
Tester							
Test Number							
Max Limit	1.237	V					
Min Limit	1.213	V					
krad(Si)	0	20	25	30	35	50	55
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.225	1.225	1.226	1.224	1.224
Average	1.226	1.225	1.225	1.225	1.226	1.225	1.225
Max	1.226	1.226	1.226	1.226	1.226	1.227	1.226
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
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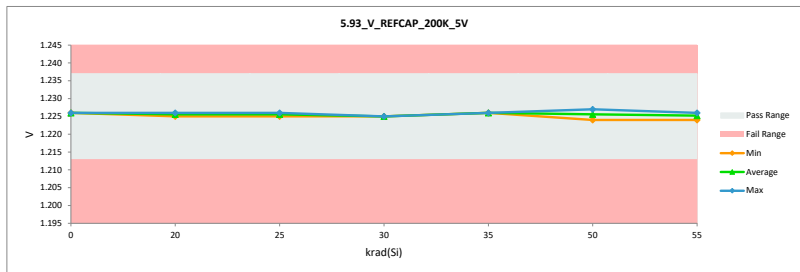
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.93_V_REFCAP_200K_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.226	1.226	0.000
0	51	1.226	1.226	0.000
0	52	1.226	1.226	0.000
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.226	1.226	0.000
25	5	1.225	1.225	0.000
20	6	1.226	1.225	-0.001
20	7	1.227	1.226	-0.001
20	8	1.226	1.225	-0.001
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.226	1.226	0.000
35	15	1.226	1.226	0.000
30	16	1.227	1.225	-0.002
30	17	1.227	1.225	-0.002
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.227	1.225	-0.002
55	24	1.226	1.224	-0.002
55	25	1.226	1.226	0.000
55	26	1.226	1.226	0.000
55	27	1.226	1.226	0.000
55	28	1.226	1.225	-0.001
55	29	1.226	1.226	0.000
55	30	1.226	1.226	0.000
55	31	1.226	1.225	-0.001
55	32	1.226	1.225	-0.001
55	33	1.225	1.225	0.000
55	34	1.226	1.224	-0.002
55	35	1.226	1.225	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.226	1.226	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.227	0.001
50	46	1.226	1.227	0.001
50	47	1.226	1.224	-0.002
Max		1.227	1.227	0.001
Average		1.226	1.225	-0.001
Min		1.225	1.224	-0.002
Std Dev		0.000	0.001	0.001

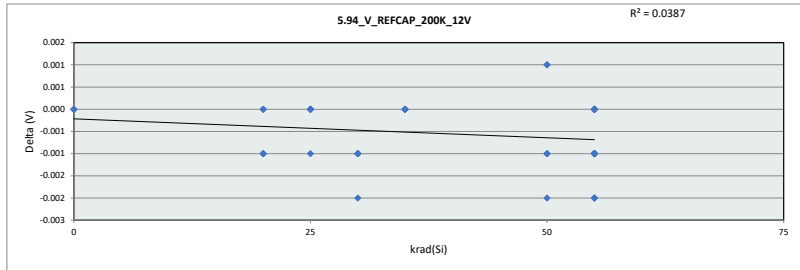
5.93_V_REFCAP_200K_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		1.237	V					
Min Limit		1.213	V					
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.225	1.225	1.226	1.226	1.224	1.224
Average	1.226	1.226	1.226	1.225	1.226	1.226	1.226	1.225
Max	1.226	1.226	1.226	1.225	1.226	1.226	1.227	1.226
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
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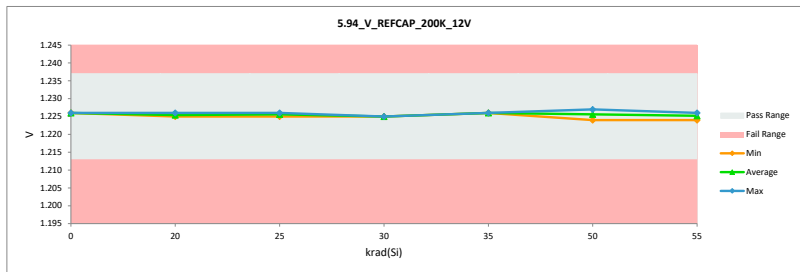
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.94_V_REFCAP_200K_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.226	1.226	0.000
0	51	1.226	1.226	0.000
0	52	1.226	1.226	0.000
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.226	1.226	0.000
25	5	1.225	1.225	0.000
20	6	1.226	1.225	-0.001
20	7	1.226	1.226	0.000
20	8	1.226	1.225	-0.001
20	9	1.226	1.225	-0.001
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.226	1.226	0.000
35	15	1.226	1.226	0.000
30	16	1.227	1.225	-0.002
30	17	1.226	1.225	-0.001
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.226	1.225	-0.001
55	24	1.226	1.224	-0.002
55	25	1.226	1.226	0.000
55	26	1.226	1.226	0.000
55	27	1.226	1.226	0.000
55	28	1.226	1.225	-0.001
55	29	1.226	1.226	0.000
55	30	1.226	1.226	0.000
55	31	1.226	1.225	-0.001
55	32	1.226	1.225	-0.001
55	33	1.225	1.225	0.000
55	34	1.226	1.224	-0.002
55	35	1.226	1.225	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.226	1.226	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.227	0.001
50	46	1.226	1.227	0.001
50	47	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.224	-0.002
	Std Dev	0.000	0.001	0.001

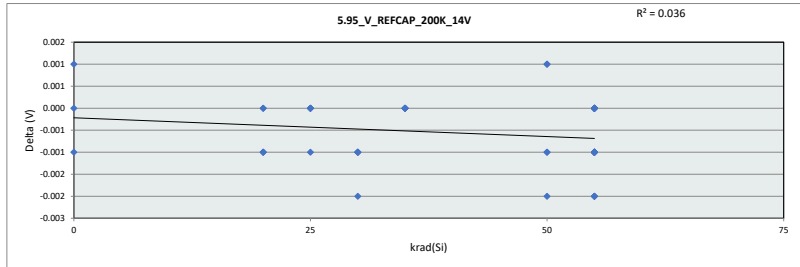
5.94_V_REFCAP_200K_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
krad(Si)								
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.225	1.225	1.226	1.226	1.224	1.224
Average	1.226	1.225	1.226	1.225	1.226	1.226	1.226	1.225
Max	1.226	1.226	1.226	1.226	1.226	1.226	1.227	1.226
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



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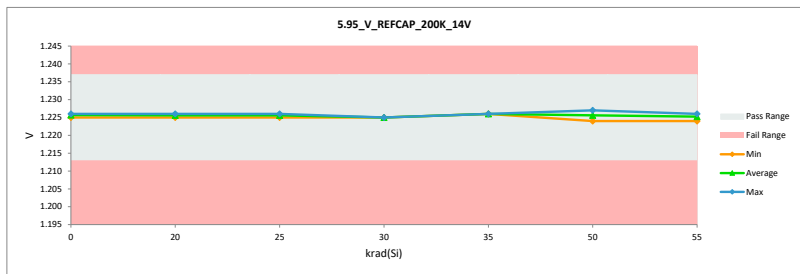
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.95_V_REFCAP_200K_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.226	1.226	0.000
0	51	1.225	1.226	0.001
0	52	1.226	1.225	-0.001
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.226	1.226	0.000
25	5	1.225	1.225	0.000
20	6	1.226	1.225	-0.001
20	7	1.227	1.226	-0.001
20	8	1.226	1.225	-0.001
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.226	1.226	0.000
35	15	1.226	1.226	0.000
30	16	1.226	1.225	-0.001
30	17	1.227	1.225	-0.002
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.226	1.225	-0.001
55	24	1.226	1.224	-0.002
55	25	1.226	1.226	0.000
55	26	1.226	1.226	0.000
55	27	1.226	1.226	0.000
55	28	1.226	1.225	-0.001
55	29	1.226	1.226	0.000
55	30	1.226	1.226	0.000
55	31	1.226	1.225	-0.001
55	32	1.226	1.225	-0.001
55	33	1.225	1.225	0.000
55	34	1.226	1.224	-0.002
55	35	1.226	1.225	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.226	1.226	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.227	0.001
50	46	1.226	1.227	0.001
50	47	1.226	1.224	-0.002
Max		1.227	1.227	0.001
Average		1.226	1.225	-0.001
Min		1.225	1.224	-0.002
Std Dev		0.000	0.001	0.001

5.95_V_REFCAP_200K_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		1.237	V					
Min Limit		1.213	V					
LL		1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min		1.225	1.225	1.225	1.225	1.226	1.224	1.224
Average		1.226	1.226	1.226	1.225	1.226	1.226	1.225
Max		1.226	1.226	1.226	1.225	1.226	1.226	1.226
UL		1.237	1.237	1.237	1.237	1.237	1.237	1.237

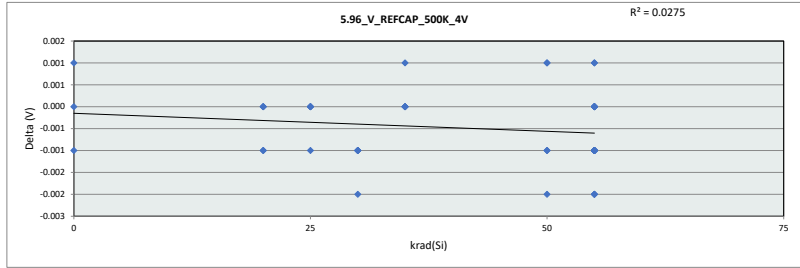


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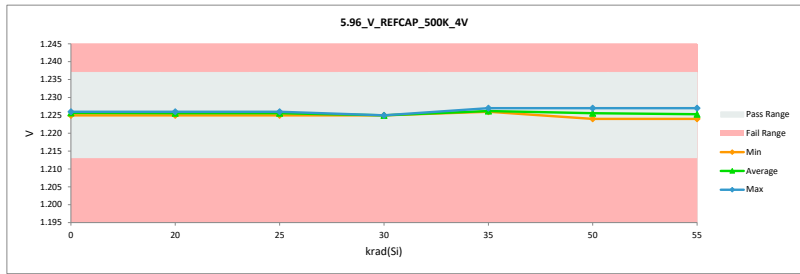
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.96_V_REFCAP_500K_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.226	1.226	0.000
0	51	1.225	1.226	0.001
0	52	1.226	1.225	-0.001
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.226	1.226	0.000
25	5	1.225	1.225	0.000
20	6	1.226	1.225	-0.001
20	7	1.226	1.226	0.000
20	8	1.226	1.225	-0.001
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.226	1.227	0.001
35	15	1.226	1.226	0.000
30	16	1.227	1.225	-0.002
30	17	1.226	1.225	-0.001
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.226	1.225	-0.001
55	24	1.226	1.224	-0.002
55	25	1.226	1.226	0.000
55	26	1.226	1.226	0.000
55	27	1.226	1.227	0.001
55	28	1.226	1.225	-0.001
55	29	1.226	1.226	0.000
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.225	-0.001
55	33	1.225	1.225	0.000
55	34	1.226	1.224	-0.002
55	35	1.226	1.225	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.226	1.226	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.227	0.001
50	46	1.226	1.227	0.001
50	47	1.226	1.224	-0.002
Max		1.227	1.227	0.001
Average		1.226	1.225	0.000
Min		1.225	1.224	-0.002
Std Dev		0.000	0.001	0.001



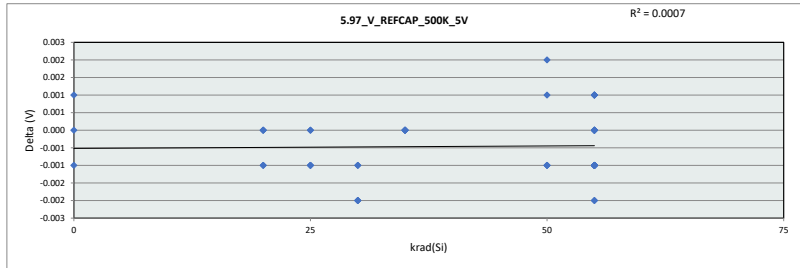
5.96_V_REFCAP_500K_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.225	1.225	1.225	1.226	1.224	1.224
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.225
Max	1.226	1.226	1.226	1.226	1.226	1.227	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



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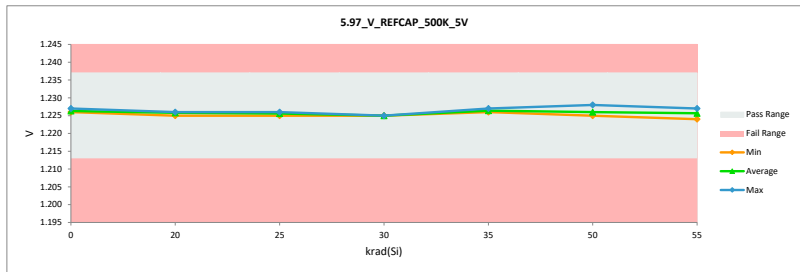
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.97_V_REFCAP_500K_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.227	1.226	-0.001
25	5	1.226	1.225	-0.001
20	6	1.226	1.225	-0.001
20	7	1.227	1.226	-0.001
20	8	1.226	1.226	0.000
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.225	-0.002
30	17	1.227	1.225	-0.002
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.227	1.225	-0.002
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.226	-0.001
55	26	1.226	1.227	0.001
55	27	1.226	1.227	0.001
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.225	-0.001
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.228	0.002
50	46	1.226	1.227	0.001
50	47	1.226	1.225	-0.001
Max		1.227	1.228	0.002
Average		1.226	1.226	0.000
Min		1.226	1.224	-0.002
Std Dev		0.000	0.001	0.001

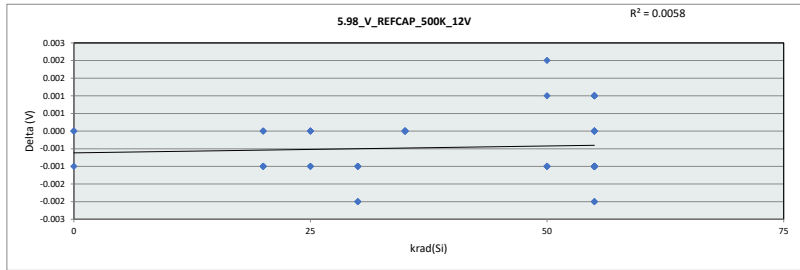
5.97_V_REFCAP_500K_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		1.237	V					
Min Limit		1.213	V					
krad(Si)		0	20	25	30	35	50	55
LL		1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min		1.226	1.225	1.225	1.225	1.226	1.225	1.224
Average		1.226	1.226	1.226	1.225	1.226	1.226	1.226
Max		1.227	1.226	1.226	1.225	1.227	1.228	1.227
UL		1.237	1.237	1.237	1.237	1.237	1.237	1.237



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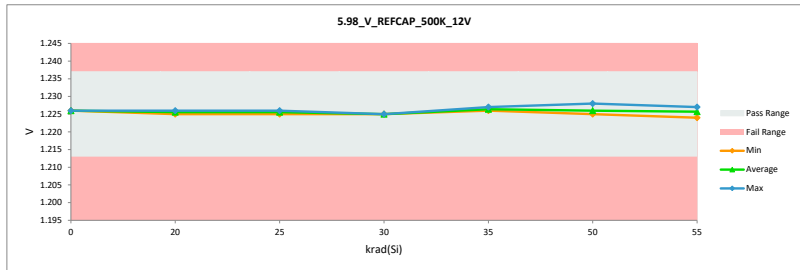
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.98_V_REFCAP_500K_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.226	0.000
0	52	1.226	1.226	0.000
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.226	1.226	0.000
25	5	1.226	1.225	-0.001
20	6	1.226	1.225	-0.001
20	7	1.227	1.226	-0.001
20	8	1.226	1.225	-0.001
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.225	-0.002
30	17	1.227	1.225	-0.002
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.226	0.000
55	22	1.226	1.224	-0.002
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.226	-0.001
55	26	1.226	1.227	0.001
55	27	1.226	1.227	0.001
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.225	-0.001
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.227	1.226	-0.001
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.228	0.002
50	46	1.226	1.227	0.001
50	47	1.226	1.225	-0.001
Max		1.227	1.228	0.002
Average		1.226	1.226	0.000
Min		1.226	1.224	-0.002
Std Dev		0.000	0.001	0.001

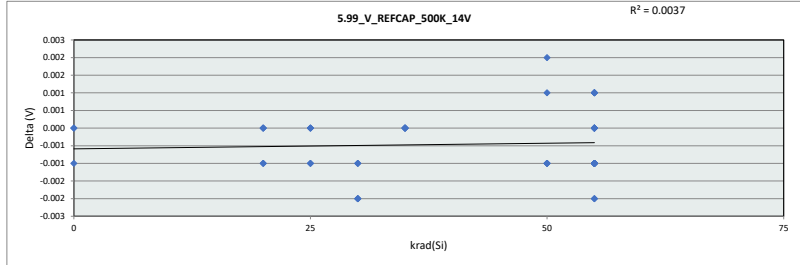
5.98_V_REFCAP_500K_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.225	1.225	1.226	1.226	1.225	1.224
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.226	1.226	1.226	1.227	1.227	1.228	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



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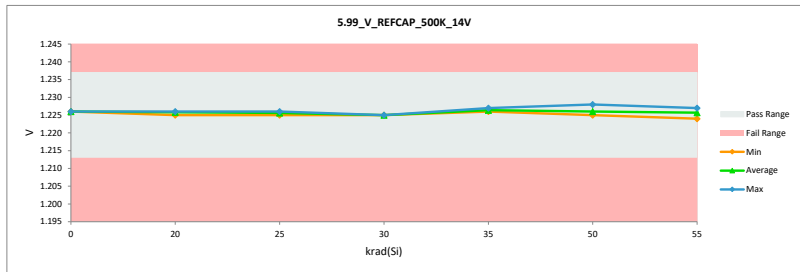
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.99_V_REFCAP_500K_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.226	0.000
0	52	1.226	1.226	0.000
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.226	1.226	0.000
25	5	1.226	1.225	-0.001
20	6	1.226	1.225	-0.001
20	7	1.227	1.226	-0.001
20	8	1.226	1.226	0.000
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.225	-0.002
30	17	1.227	1.225	-0.002
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.227	1.225	-0.002
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.226	-0.001
55	26	1.226	1.227	0.001
55	27	1.226	1.227	0.001
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.225	-0.001
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.228	0.002
50	46	1.226	1.227	0.001
50	47	1.226	1.225	-0.001
Max	1.227	1.228	0.002	
Average	1.226	1.226	0.000	
Min	1.226	1.224	-0.002	
Std Dev	0.000	0.001	0.001	

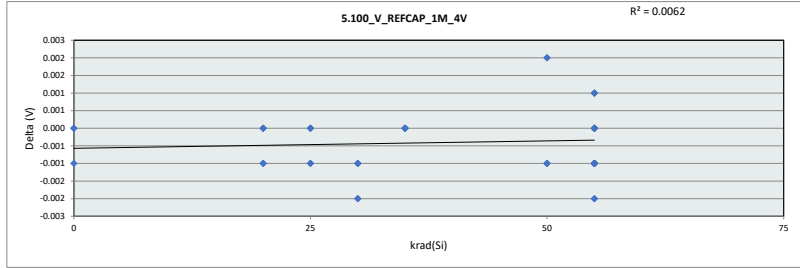
5.99_V_REFCAP_500K_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.225	1.225	1.225	1.226	1.225	1.224
Average	1.226	1.226	1.226	1.225	1.226	1.226	1.226	1.226
Max	1.226	1.226	1.226	1.225	1.227	1.227	1.228	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



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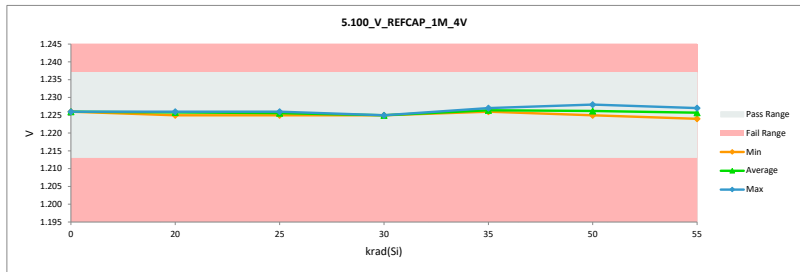
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.100_V_REFCAP_1M_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.226	0.000
0	52	1.226	1.226	0.000
25	1	1.226	1.226	0.000
25	2	1.226	1.225	-0.001
25	3	1.226	1.226	0.000
25	4	1.226	1.226	0.000
25	5	1.226	1.225	-0.001
20	6	1.226	1.225	-0.001
20	7	1.227	1.226	-0.001
20	8	1.226	1.226	0.000
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.225	-0.002
30	17	1.227	1.225	-0.002
30	18	1.226	1.225	-0.001
30	19	1.226	1.225	-0.001
30	20	1.226	1.225	-0.001
55	21	1.226	1.225	-0.001
55	22	1.226	1.224	-0.002
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.227	0.000
55	26	1.226	1.227	0.001
55	27	1.226	1.227	0.001
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.225	-0.001
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.226	0.000
55	39	1.226	1.226	0.000
55	40	1.226	1.225	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.225	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.228	0.002
50	46	1.226	1.228	0.002
50	47	1.226	1.225	-0.001
Max	1.227	1.228	0.002	
Average	1.226	1.226	0.000	
Min	1.226	1.224	-0.002	
Std Dev	0.000	0.001	0.001	

5.100_V_REFCAP_1M_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.225	1.225	1.226	1.226	1.225	1.224
Average	1.226	1.226	1.226	1.225	1.226	1.226	1.226	1.226
Max	1.226	1.226	1.226	1.225	1.227	1.227	1.228	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

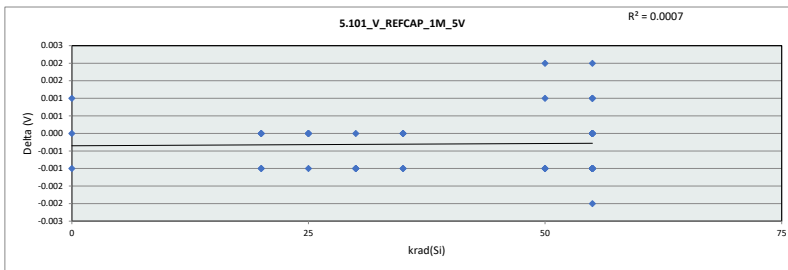


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krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

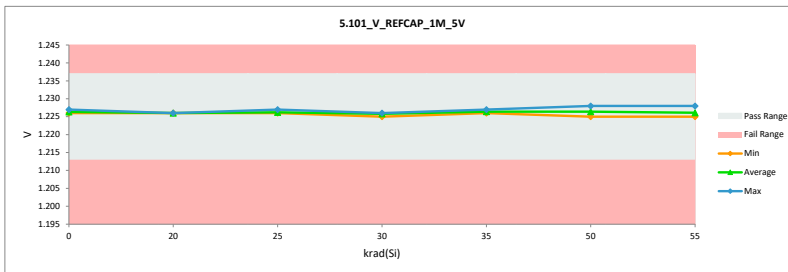
5.101_V_REFCAP_1M_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.227	1.226	-0.001
25	2	1.226	1.226	0.000
25	3	1.226	1.226	0.000
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.226	1.226	0.000
20	7	1.227	1.226	-0.001
20	8	1.226	1.226	0.000
20	9	1.226	1.226	0.000
20	10	1.227	1.226	-0.001
35	11	1.227	1.226	-0.001
35	12	1.227	1.226	-0.001
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.226	1.226	0.000
30	19	1.226	1.225	-0.001
30	20	1.227	1.226	-0.001
55	21	1.227	1.226	-0.001
55	22	1.226	1.225	-0.001
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.227	0.000
55	26	1.227	1.228	0.001
55	27	1.226	1.228	0.002
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.226	0.000
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.227	1.227	0.000
55	39	1.227	1.227	0.000
55	40	1.227	1.226	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.227	1.226	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.228	0.002
50	46	1.227	1.228	0.001
50	47	1.226	1.225	-0.001
Max		1.227	1.228	0.002
Average		1.226	1.226	0.000
Min		1.226	1.225	-0.002
Std Dev		0.001	0.001	0.001



5.101_V_REFCAP_1M_5V	
Test Site	
Tester	
Test Number	
Max Limit	1.237
Min Limit	1.213

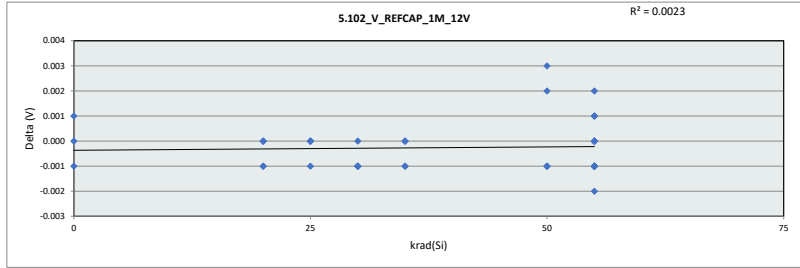
krad(Si)	0	20	25	30	35	50	55
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.226	1.226	1.225	1.226	1.225	1.225
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.227	1.226	1.227	1.226	1.227	1.228	1.228
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237



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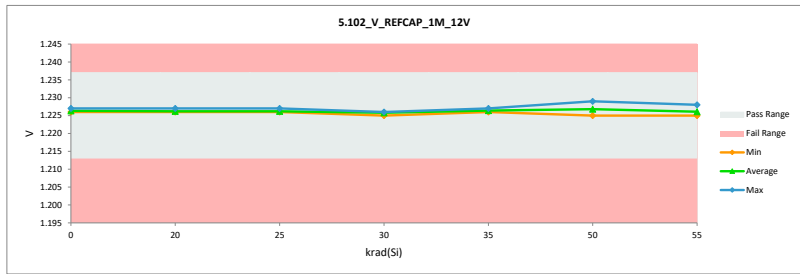
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.102_V_REFCAP_1M_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.227	1.226	-0.001
25	2	1.226	1.226	0.000
25	3	1.226	1.226	0.000
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.226	1.226	0.000
20	7	1.227	1.227	0.000
20	8	1.226	1.226	0.000
20	9	1.227	1.226	-0.001
20	10	1.227	1.226	-0.001
35	11	1.227	1.226	-0.001
35	12	1.227	1.226	-0.001
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.226	1.226	0.000
30	19	1.226	1.225	-0.001
30	20	1.227	1.226	-0.001
55	21	1.227	1.226	-0.001
55	22	1.226	1.225	-0.001
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.227	0.000
55	26	1.227	1.228	0.001
55	27	1.226	1.228	0.002
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.226	0.000
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.227	1.227	0.000
55	39	1.227	1.227	0.000
55	40	1.227	1.226	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.227	1.226	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.229	0.003
50	46	1.227	1.229	0.002
50	47	1.226	1.225	-0.001
Max		1.227	1.229	0.003
Average		1.226	1.226	0.000
Min		1.226	1.225	-0.002
Std Dev		0.001	0.001	0.001

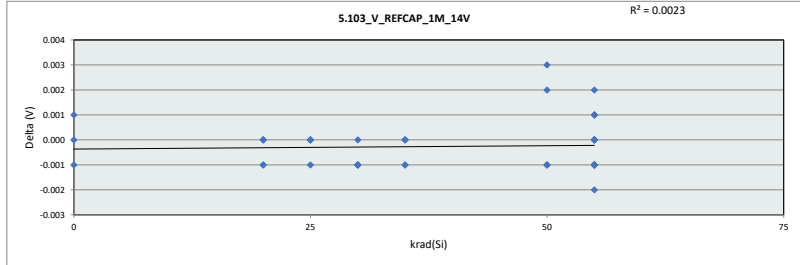
5.102_V_REFCAP_1M_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		1.237	V					
Min Limit		1.213	V					
krad(Si)		0	20	25	30	35	50	55
LL		1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min		1.226	1.226	1.226	1.225	1.226	1.225	1.225
Average		1.226	1.226	1.226	1.226	1.226	1.227	1.226
Max		1.227	1.227	1.227	1.226	1.227	1.229	1.228
UL		1.237	1.237	1.237	1.237	1.237	1.237	1.237



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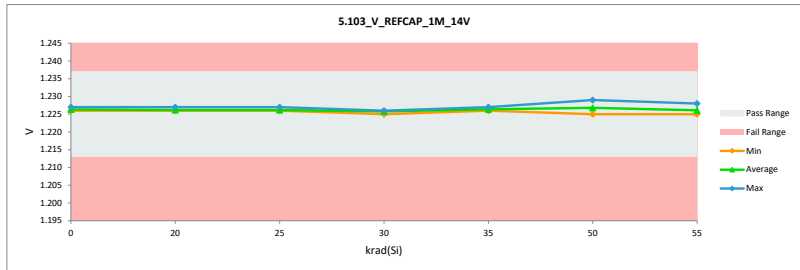
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.103_V_REFCAP_1M_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.227	1.226	-0.001
25	2	1.226	1.226	0.000
25	3	1.226	1.226	0.000
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.226	1.226	0.000
20	7	1.227	1.227	0.000
20	8	1.226	1.226	0.000
20	9	1.227	1.226	-0.001
20	10	1.227	1.226	-0.001
35	11	1.227	1.226	-0.001
35	12	1.227	1.226	-0.001
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.226	1.226	0.000
30	19	1.226	1.225	-0.001
30	20	1.227	1.226	-0.001
55	21	1.227	1.226	-0.001
55	22	1.226	1.225	-0.001
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.227	0.000
55	26	1.227	1.228	0.001
55	27	1.226	1.228	0.002
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.226	0.000
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.227	1.227	0.000
55	39	1.227	1.227	0.000
55	40	1.227	1.226	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.227	1.226	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.229	0.003
50	46	1.227	1.229	0.002
50	47	1.226	1.225	-0.001
Max		1.227	1.229	0.003
Average		1.226	1.226	0.000
Min		1.226	1.225	-0.002
Std Dev		0.001	0.001	0.001

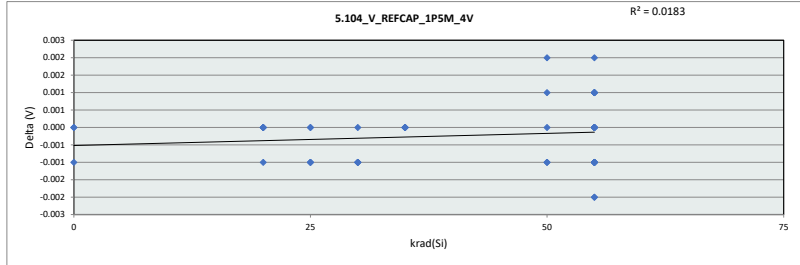
5.103_V_REFCAP_1M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		1.237	V					
Min Limit		1.213	V					
krad(Si)		0	20	25	30	35	50	55
LL		1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min		1.226	1.226	1.226	1.225	1.226	1.225	1.225
Average		1.226	1.226	1.226	1.226	1.226	1.227	1.226
Max		1.227	1.227	1.227	1.226	1.227	1.229	1.228
UL		1.237	1.237	1.237	1.237	1.237	1.237	1.237



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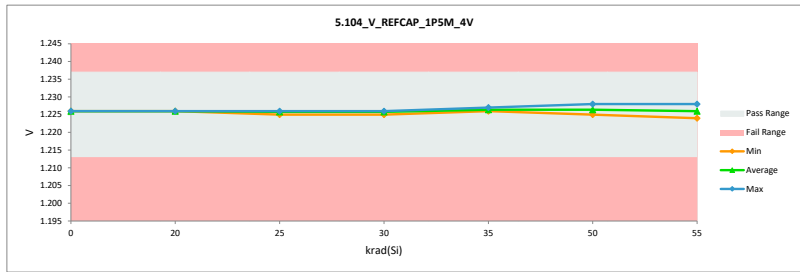
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.104_V_REFCAP_1P5M_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.226	0.000
0	52	1.226	1.226	0.000
25	1	1.227	1.226	-0.001
25	2	1.226	1.226	0.000
25	3	1.226	1.226	0.000
25	4	1.227	1.226	-0.001
25	5	1.226	1.225	-0.001
20	6	1.226	1.226	0.000
20	7	1.227	1.226	-0.001
20	8	1.226	1.226	0.000
20	9	1.226	1.226	0.000
20	10	1.226	1.226	0.000
35	11	1.226	1.226	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.226	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.226	1.226	0.000
30	19	1.226	1.225	-0.001
30	20	1.227	1.226	-0.001
55	21	1.226	1.226	0.000
55	22	1.226	1.224	-0.002
55	23	1.227	1.225	-0.002
55	24	1.226	1.225	-0.001
55	25	1.227	1.227	0.000
55	26	1.226	1.228	0.002
55	27	1.226	1.227	0.001
55	28	1.226	1.226	0.000
55	29	1.226	1.227	0.001
55	30	1.226	1.227	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.226	0.000
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.226	1.227	0.001
55	39	1.226	1.227	0.001
55	40	1.227	1.226	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.226	1.226	0.000
50	44	1.226	1.225	-0.001
50	45	1.226	1.228	0.002
50	46	1.227	1.228	0.001
50	47	1.226	1.225	-0.001
Max	1.227	1.228	0.002	
Average	1.226	1.226	0.000	
Min	1.226	1.224	-0.002	
Std Dev	0.000	0.001	0.001	

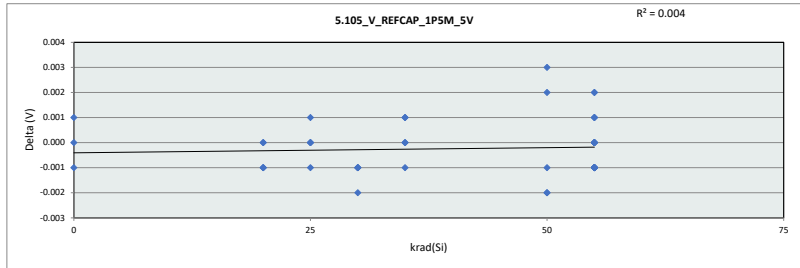
5.104_V_REFCAP_1P5M_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.226	1.225	1.225	1.226	1.226	1.225	1.224
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.226	1.226	1.226	1.226	1.227	1.228	1.228
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
TPS7H5005-SEP**

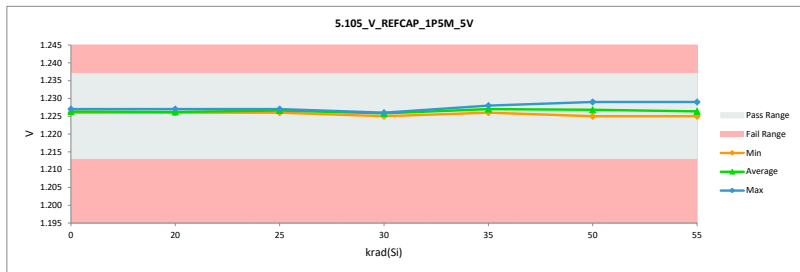
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.105_V_REFCAP_1P5M_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.227	1.227	0.000
25	2	1.227	1.226	-0.001
25	3	1.226	1.227	0.001
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.227	1.226	-0.001
20	7	1.227	1.227	0.000
20	8	1.226	1.226	0.000
20	9	1.227	1.226	-0.001
20	10	1.227	1.226	-0.001
35	11	1.227	1.227	0.000
35	12	1.227	1.226	-0.001
35	13	1.226	1.227	0.001
35	14	1.227	1.227	0.000
35	15	1.227	1.228	0.001
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.227	1.226	-0.001
30	19	1.227	1.225	-0.002
30	20	1.227	1.226	-0.001
55	21	1.227	1.226	-0.001
55	22	1.226	1.225	-0.001
55	23	1.227	1.226	-0.001
55	24	1.226	1.225	-0.001
55	25	1.227	1.228	0.001
55	26	1.227	1.229	0.002
55	27	1.227	1.228	0.001
55	28	1.226	1.226	0.000
55	29	1.226	1.228	0.002
55	30	1.227	1.228	0.001
55	31	1.227	1.226	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.226	0.000
55	34	1.226	1.225	-0.001
55	35	1.227	1.226	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.227	1.227	0.000
55	39	1.227	1.227	0.000
55	40	1.227	1.226	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.227	1.226	-0.001
50	44	1.227	1.225	-0.002
50	45	1.226	1.229	0.003
50	46	1.227	1.229	0.002
50	47	1.227	1.225	-0.002
Max		1.227	1.229	0.003
Average		1.227	1.226	0.000
Min		1.226	1.225	-0.002
Std Dev		0.000	0.001	0.001

5.105_V_REFCAP_1P5M_5V								
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
krad(Si)	0	20	25	30	35	50	55	
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	
Min	1.226	1.226	1.226	1.225	1.226	1.225	1.225	
Average	1.226	1.226	1.227	1.226	1.227	1.227	1.226	
Max	1.227	1.227	1.227	1.226	1.228	1.229	1.229	
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	

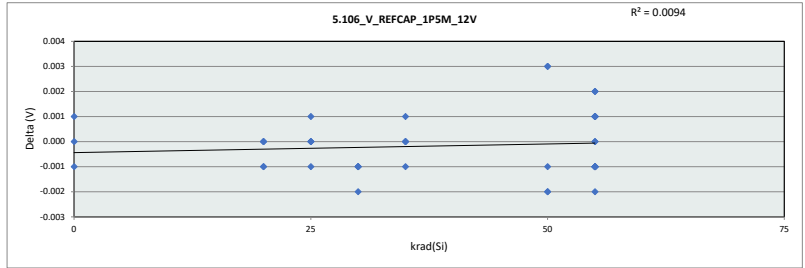


**HDR TID Report
TPS7H5005-SEP**

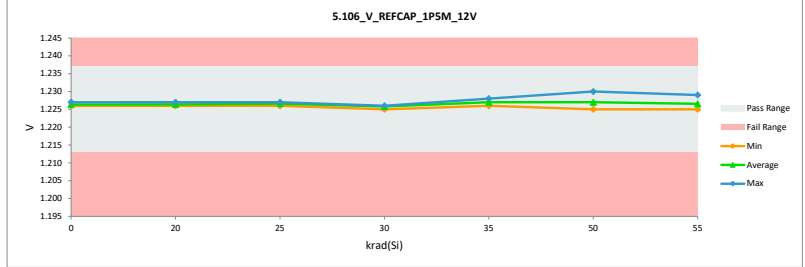
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.106_V_REFCAP_1P5M_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.227	1.227	0.000
25	2	1.227	1.226	-0.001
25	3	1.226	1.227	0.001
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.227	1.226	-0.001
20	7	1.227	1.227	0.000
20	8	1.226	1.226	0.000
20	9	1.227	1.227	0.000
20	10	1.227	1.226	-0.001
35	11	1.227	1.227	0.000
35	12	1.227	1.226	-0.001
35	13	1.227	1.227	0.000
35	14	1.227	1.227	0.000
35	15	1.227	1.228	0.001
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.227	1.226	-0.001
30	19	1.227	1.225	-0.002
30	20	1.227	1.226	-0.001
55	21	1.227	1.226	-0.001
55	22	1.226	1.225	-0.001
55	23	1.227	1.226	-0.001
55	24	1.226	1.225	-0.001
55	25	1.227	1.228	0.001
55	26	1.227	1.229	0.002
55	27	1.227	1.228	0.001
55	28	1.226	1.227	0.001
55	29	1.226	1.228	0.002
55	30	1.227	1.228	0.001
55	31	1.227	1.226	-0.001
55	32	1.226	1.227	0.001
55	33	1.226	1.226	0.000
55	34	1.227	1.225	-0.002
55	35	1.227	1.226	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.227	1.228	0.001
55	39	1.227	1.227	0.000
55	40	1.227	1.226	-0.001
55	41	1.227	1.228	0.001
55	42	1.226	1.225	-0.001
50	43	1.227	1.226	-0.001
50	44	1.227	1.225	-0.002
50	45	1.226	1.229	0.003
50	46	1.227	1.230	0.003
50	47	1.227	1.225	-0.002
	Max	1.227	1.230	0.003
	Average	1.227	1.227	0.000
	Min	1.226	1.225	-0.002
	Std Dev	0.000	0.001	0.001



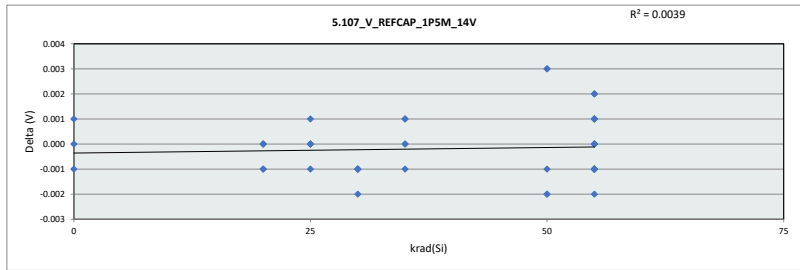
5.106_V_REFCAP_1P5M_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
krad(Si)								
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.226	1.226	1.226	1.226	1.226	1.225	1.225
Average	1.226	1.226	1.227	1.226	1.227	1.227	1.227	1.227
Max	1.227	1.227	1.227	1.227	1.226	1.228	1.230	1.229
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
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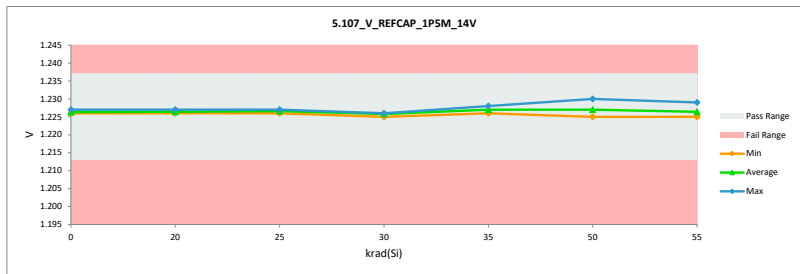
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.107_V_REFCAP_1P5M_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.227	1.227	0.000
25	2	1.227	1.226	-0.001
25	3	1.226	1.227	0.001
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.227	1.226	-0.001
20	7	1.227	1.227	0.000
20	8	1.226	1.226	0.000
20	9	1.227	1.227	0.000
20	10	1.227	1.226	-0.001
35	11	1.227	1.227	0.000
35	12	1.227	1.226	-0.001
35	13	1.226	1.227	0.001
35	14	1.227	1.227	0.000
35	15	1.227	1.228	0.001
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.227	1.226	-0.001
30	19	1.227	1.225	-0.002
30	20	1.227	1.226	-0.001
55	21	1.227	1.226	-0.001
55	22	1.226	1.225	-0.001
55	23	1.227	1.226	-0.001
55	24	1.226	1.225	-0.001
55	25	1.227	1.228	0.001
55	26	1.227	1.229	0.002
55	27	1.227	1.228	0.001
55	28	1.226	1.227	0.001
55	29	1.226	1.228	0.002
55	30	1.227	1.228	0.001
55	31	1.227	1.225	-0.002
55	32	1.226	1.226	0.000
55	33	1.226	1.226	0.000
55	34	1.226	1.225	-0.001
55	35	1.227	1.226	-0.001
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.227	1.228	0.001
55	39	1.227	1.227	0.000
55	40	1.227	1.226	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.227	1.226	-0.001
50	44	1.227	1.225	-0.002
50	45	1.226	1.229	0.003
50	46	1.227	1.230	0.003
50	47	1.227	1.225	-0.002
	Max	1.227	1.230	0.003
	Average	1.227	1.226	0.000
	Min	1.226	1.225	-0.002
	Std Dev	0.000	0.001	0.001

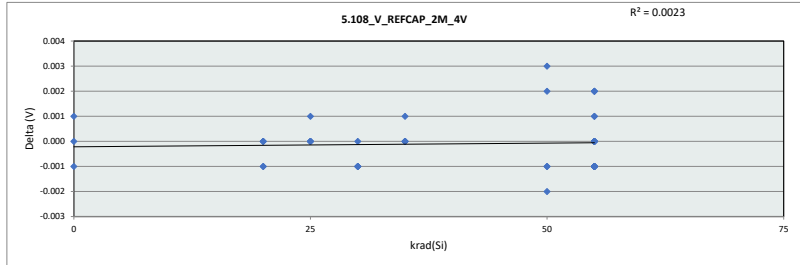
5.107_V_REFCAP_1P5M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
krad(Si)								
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.226	1.226	1.226	1.225	1.226	1.225	1.225
Average	1.226	1.226	1.227	1.226	1.227	1.227	1.227	1.226
Max	1.227	1.227	1.227	1.226	1.226	1.228	1.230	1.229
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
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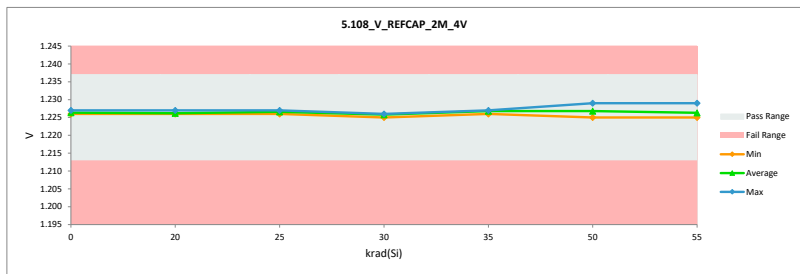
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.108_V_REFCAP_2M_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.226	1.226	0.000
25	1	1.227	1.227	0.000
25	2	1.226	1.226	0.000
25	3	1.226	1.227	0.001
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.226	1.226	0.000
20	7	1.227	1.227	0.000
20	8	1.226	1.226	0.000
20	9	1.227	1.226	-0.001
20	10	1.227	1.226	-0.001
35	11	1.227	1.227	0.000
35	12	1.226	1.226	0.000
35	13	1.226	1.227	0.001
35	14	1.227	1.227	0.000
35	15	1.227	1.227	0.000
30	16	1.227	1.226	-0.001
30	17	1.227	1.226	-0.001
30	18	1.226	1.226	0.000
30	19	1.226	1.225	-0.001
30	20	1.227	1.226	-0.001
55	21	1.227	1.226	-0.001
55	22	1.226	1.225	-0.001
55	23	1.227	1.226	-0.001
55	24	1.226	1.225	-0.001
55	25	1.227	1.228	0.001
55	26	1.227	1.229	0.002
55	27	1.226	1.228	0.002
55	28	1.226	1.226	0.000
55	29	1.226	1.228	0.002
55	30	1.227	1.228	0.001
55	31	1.226	1.225	-0.001
55	32	1.226	1.226	0.000
55	33	1.226	1.226	0.000
55	34	1.226	1.225	-0.001
55	35	1.226	1.226	0.000
55	36	1.226	1.225	-0.001
55	37	1.226	1.225	-0.001
55	38	1.227	1.227	0.000
55	39	1.227	1.227	0.000
55	40	1.227	1.226	-0.001
55	41	1.227	1.227	0.000
55	42	1.226	1.225	-0.001
50	43	1.227	1.226	-0.001
50	44	1.226	1.225	-0.001
50	45	1.226	1.229	0.003
50	46	1.227	1.229	0.002
50	47	1.227	1.225	-0.002
	Max	1.227	1.229	0.003
	Average	1.226	1.226	0.000
	Min	1.226	1.225	-0.002
	Std Dev	0.001	0.001	0.001

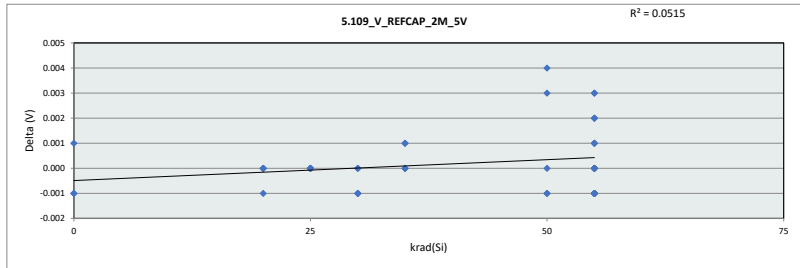
5.108_V_REFCAP_2M_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
krad(Si)								
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.226	1.226	1.225	1.226	1.226	1.225	1.225
Average	1.226	1.226	1.227	1.226	1.227	1.227	1.227	1.226
Max	1.227	1.227	1.227	1.227	1.226	1.227	1.229	1.229
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
TPS7H5005-SEP**

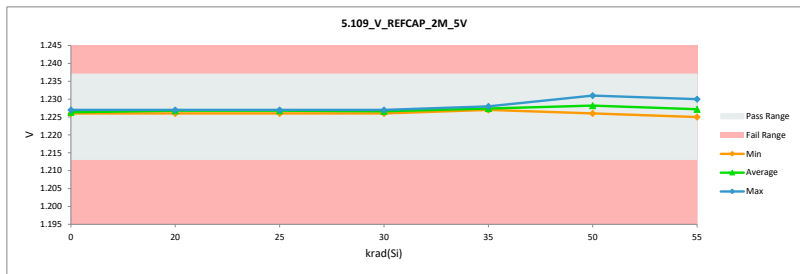
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.109_V_REFCAP_2M_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.226	-0.001
0	51	1.226	1.227	0.001
0	52	1.227	1.226	-0.001
25	1	1.227	1.227	0.000
25	2	1.227	1.227	0.000
25	3	1.227	1.227	0.000
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.227	1.227	0.000
20	7	1.227	1.227	0.000
20	8	1.227	1.226	-0.001
20	9	1.227	1.227	0.000
20	10	1.227	1.227	0.000
35	11	1.227	1.227	0.000
35	12	1.227	1.227	0.000
35	13	1.227	1.227	0.000
35	14	1.227	1.228	0.001
35	15	1.227	1.228	0.001
30	16	1.228	1.227	-0.001
30	17	1.227	1.227	0.000
30	18	1.227	1.227	0.000
30	19	1.227	1.226	-0.001
30	20	1.227	1.226	-0.001
55	21	1.227	1.227	0.000
55	22	1.226	1.225	-0.001
55	23	1.227	1.226	-0.001
55	24	1.227	1.226	-0.001
55	25	1.227	1.229	0.002
55	26	1.227	1.230	0.003
55	27	1.227	1.229	0.002
55	28	1.227	1.227	0.000
55	29	1.226	1.229	0.003
55	30	1.227	1.228	0.001
55	31	1.227	1.226	-0.001
55	32	1.227	1.227	0.000
55	33	1.226	1.227	0.001
55	34	1.227	1.226	-0.001
55	35	1.227	1.227	0.000
55	36	1.226	1.226	0.000
55	37	1.227	1.226	-0.001
55	38	1.227	1.229	0.002
55	39	1.227	1.228	0.001
55	40	1.227	1.226	-0.001
55	41	1.228	1.228	0.000
55	42	1.227	1.226	-0.001
50	43	1.227	1.227	0.000
50	44	1.227	1.226	-0.001
50	45	1.227	1.231	0.004
50	46	1.228	1.231	0.003
50	47	1.227	1.226	-0.001
	Max	1.228	1.231	0.004
	Average	1.227	1.227	0.000
	Min	1.226	1.225	-0.001
	Std Dev	0.000	0.001	0.001

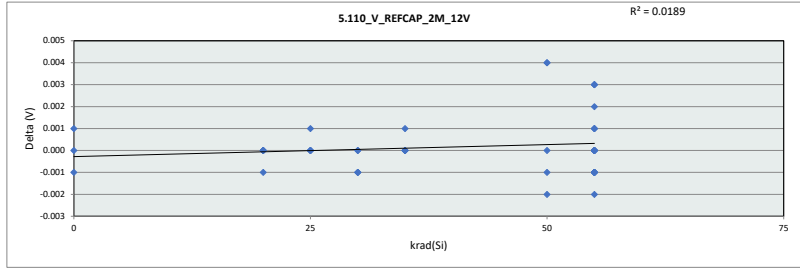
5.109_V_REFCAP_2M_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
krad(Si)								
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.226	1.226	1.226	1.227	1.227	1.226	1.225
Average	1.226	1.227	1.227	1.227	1.227	1.227	1.228	1.227
Max	1.227	1.227	1.227	1.227	1.227	1.228	1.231	1.230
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
TPS7H5005-SEP**

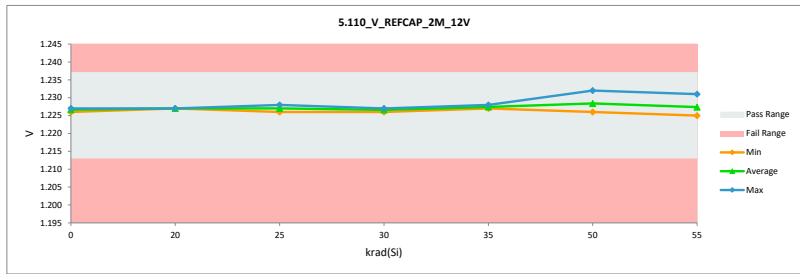
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.110_V_REFCAP_2M_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.227	0.000
0	51	1.226	1.227	0.001
0	52	1.227	1.226	-0.001
25	1	1.227	1.227	0.000
25	2	1.227	1.227	0.000
25	3	1.227	1.228	0.001
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.227	1.227	0.000
20	7	1.228	1.227	-0.001
20	8	1.227	1.227	0.000
20	9	1.227	1.227	0.000
20	10	1.227	1.227	0.000
35	11	1.227	1.227	0.000
35	12	1.227	1.227	0.000
35	13	1.227	1.227	0.000
35	14	1.228	1.228	0.000
35	15	1.227	1.228	0.001
30	16	1.228	1.227	-0.001
30	17	1.227	1.227	0.000
30	18	1.227	1.227	0.000
30	19	1.227	1.226	-0.001
30	20	1.227	1.226	-0.001
55	21	1.228	1.227	-0.001
55	22	1.227	1.225	-0.002
55	23	1.227	1.226	-0.001
55	24	1.227	1.226	-0.001
55	25	1.228	1.229	0.001
55	26	1.228	1.231	0.003
55	27	1.227	1.230	0.003
55	28	1.227	1.227	0.000
55	29	1.226	1.229	0.003
55	30	1.227	1.229	0.002
55	31	1.227	1.226	-0.001
55	32	1.227	1.227	0.000
55	33	1.227	1.227	0.000
55	34	1.227	1.226	-0.001
55	35	1.227	1.227	0.000
55	36	1.226	1.226	0.000
55	37	1.227	1.226	-0.001
55	38	1.228	1.229	0.001
55	39	1.227	1.228	0.001
55	40	1.227	1.227	0.000
55	41	1.228	1.228	0.000
55	42	1.227	1.226	-0.001
50	43	1.227	1.227	0.000
50	44	1.227	1.226	-0.001
50	45	1.227	1.231	0.004
50	46	1.228	1.232	0.004
50	47	1.228	1.226	-0.002
Max		1.228	1.232	0.004
Average		1.227	1.227	0.000
Min		1.226	1.225	-0.002
Std Dev		0.001	0.001	0.001

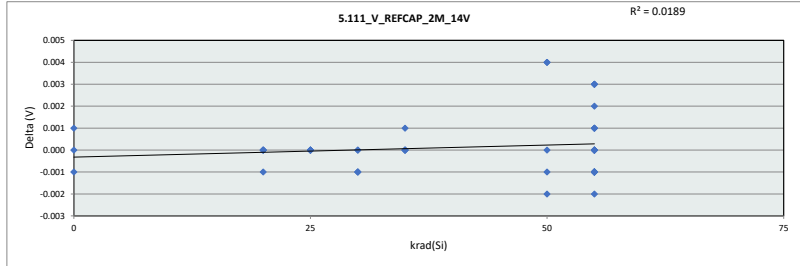
5.110_V_REFCAP_2M_12V							
Test Site							
Tester							
Test Number							
Max Limit	1.237	V					
Min Limit	1.213	V					
krad(Si)	0	20	25	30	35	50	55
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.227	1.226	1.226	1.227	1.226	1.225
Average	1.227	1.227	1.227	1.227	1.227	1.228	1.227
Max	1.227	1.227	1.228	1.227	1.227	1.228	1.231
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237



**HDR TID Report
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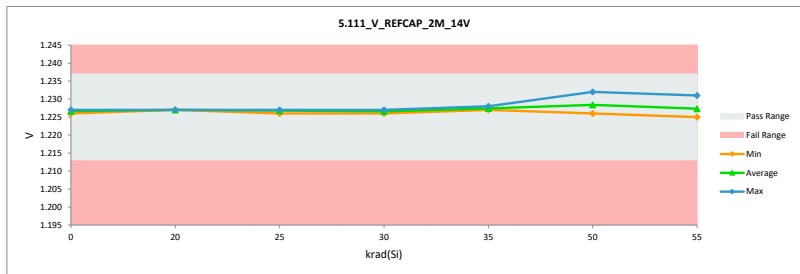
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

5.111_V_REFCAP_2M_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.237
Min Limit	1.213



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.227	1.227	0.000
0	51	1.226	1.227	0.001
0	52	1.227	1.226	-0.001
25	1	1.227	1.227	0.000
25	2	1.227	1.227	0.000
25	3	1.227	1.227	0.000
25	4	1.227	1.227	0.000
25	5	1.226	1.226	0.000
20	6	1.227	1.227	0.000
20	7	1.228	1.227	-0.001
20	8	1.227	1.227	0.000
20	9	1.227	1.227	0.000
20	10	1.227	1.227	0.000
35	11	1.227	1.227	0.000
35	12	1.227	1.227	0.000
35	13	1.227	1.227	0.000
35	14	1.228	1.228	0.000
35	15	1.227	1.228	0.001
30	16	1.228	1.227	-0.001
30	17	1.227	1.227	0.000
30	18	1.227	1.227	0.000
30	19	1.227	1.226	-0.001
30	20	1.227	1.226	-0.001
55	21	1.228	1.227	-0.001
55	22	1.227	1.225	-0.002
55	23	1.227	1.226	-0.001
55	24	1.227	1.226	-0.001
55	25	1.228	1.229	0.001
55	26	1.228	1.231	0.003
55	27	1.227	1.230	0.003
55	28	1.227	1.227	0.000
55	29	1.226	1.229	0.003
55	30	1.227	1.229	0.002
55	31	1.227	1.226	-0.001
55	32	1.227	1.227	0.000
55	33	1.227	1.227	0.000
55	34	1.227	1.226	-0.001
55	35	1.227	1.227	0.000
55	36	1.226	1.226	0.000
55	37	1.227	1.226	-0.001
55	38	1.228	1.229	0.001
55	39	1.227	1.228	0.001
55	40	1.227	1.226	-0.001
55	41	1.228	1.228	0.000
55	42	1.227	1.226	-0.001
50	43	1.227	1.227	0.000
50	44	1.227	1.226	-0.001
50	45	1.227	1.231	0.004
50	46	1.228	1.232	0.004
50	47	1.228	1.226	-0.002
Max		1.228	1.232	0.004
Average		1.227	1.227	0.000
Min		1.226	1.225	-0.002
Std Dev		0.001	0.001	0.001

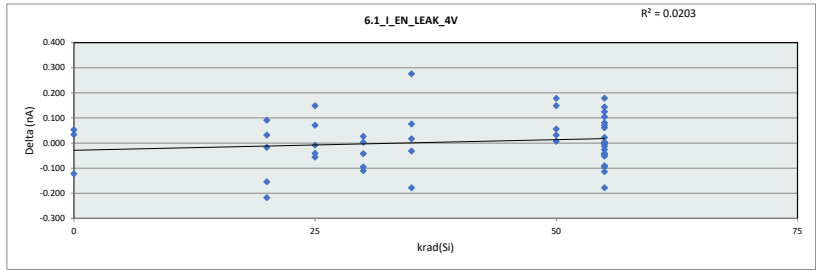
5.111_V_REFCAP_2M_14V								
Test Site								
Tester								
Test Number								
Max Limit	1.237	V						
Min Limit	1.213	V						
krad(Si)	0	20	25	30	35	50	55	
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	
Min	1.226	1.227	1.226	1.226	1.227	1.226	1.225	
Average	1.227	1.227	1.227	1.227	1.227	1.228	1.227	
Max	1.227	1.227	1.227	1.227	1.227	1.228	1.231	
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	



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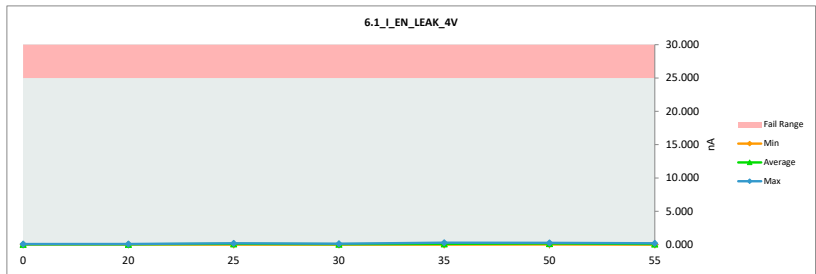
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.1_I_EN_LEAK_4V	
Test Site	
Tester	
Test Number	
Unit	nA nA
Max Limit	25 25
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.032	0.085	0.053
0	51	0.027	0.061	0.034
0	52	0.149	0.027	-0.122
25	1	0.071	0.142	0.071
25	2	0.134	0.093	-0.041
25	3	0.071	0.015	-0.056
25	4	0.041	0.190	0.149
25	5	0.110	0.102	-0.008
20	6	0.178	0.024	-0.154
20	7	0.051	0.083	0.032
20	8	0.002	0.093	0.091
20	9	0.241	0.024	-0.217
20	10	0.051	0.034	-0.017
35	11	0.012	0.288	0.276
35	12	0.007	0.083	0.076
35	13	0.085	0.102	0.017
35	14	0.037	0.005	-0.032
35	15	0.222	0.044	-0.178
30	16	0.110	0.015	-0.095
30	17	0.144	0.034	-0.110
30	18	0.066	0.093	0.027
30	19	0.076	0.034	-0.042
30	20	0.129	0.132	0.003
55	21	0.134	0.122	-0.012
55	22	0.046	0.171	0.125
55	23	0.183	0.142	-0.041
55	24	0.051	0.122	0.071
55	25	0.124	0.034	-0.090
55	26	0.037	0.181	0.144
55	27	0.076	0.024	-0.052
55	28	0.041	0.122	0.081
55	29	0.173	0.171	-0.002
55	30	0.202	0.024	-0.178
55	31	0.027	0.132	0.105
55	32	0.080	0.083	0.003
55	33	0.197	0.200	0.003
55	34	0.061	0.083	0.022
55	35	0.100	0.005	-0.095
55	36	0.022	0.083	0.061
55	37	0.119	0.005	-0.114
55	38	0.061	0.015	-0.046
55	39	0.076	0.073	-0.003
55	40	0.002	0.181	0.179
55	41	0.158	0.132	-0.026
55	42	0.178	0.132	-0.046
50	43	0.046	0.102	0.056
50	44	0.090	0.268	0.178
50	45	0.017	0.024	0.007
50	46	0.207	0.239	0.032
50	47	0.051	0.200	0.149
	Max	0.241	0.288	0.276
	Average	0.092	0.097	0.005
	Min	0.002	0.005	-0.217
	Std Dev	0.064	0.072	0.100

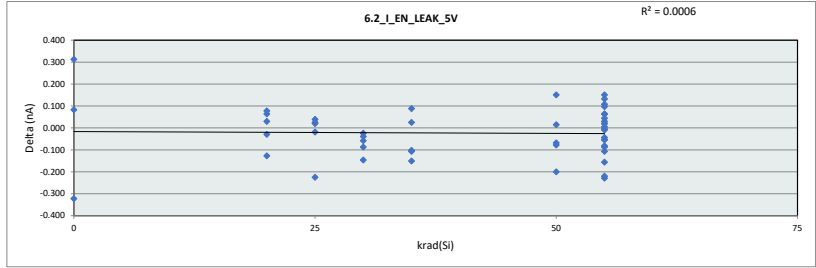
6.1_I_EN_LEAK_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		25	nA					
Min Limit			nA					
LL		0.027	0.024	0.015	0.015	0.005	0.024	0.005
Min		0.058	0.052	0.108	0.062	0.104	0.167	0.102
Average		0.085	0.093	0.190	0.132	0.288	0.268	0.200
Max		25.000	25.000	25.000	25.000	25.000	25.000	25.000
UL								



**HDR TID Report
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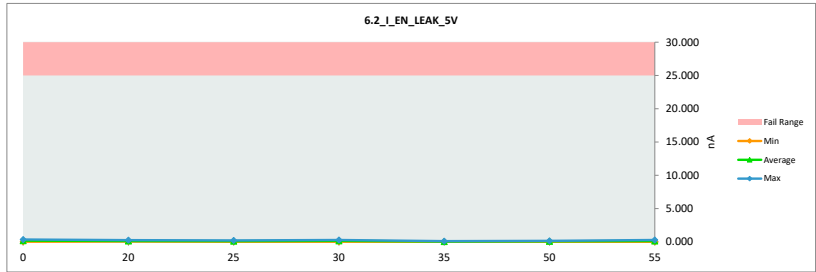
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.2_I_EN_LEAK_5V	
Test Site	
Tester	
Test Number	
Unit	nA
Max Limit	25
Min Limit	25



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.071	0.154	0.083
0	51	0.354	0.032	-0.322
0	52	0.041	0.354	0.313
25	1	0.432	0.207	-0.225
25	2	0.158	0.178	0.020
25	3	0.012	0.037	0.025
25	4	0.051	0.032	-0.019
25	5	0.032	0.071	0.039
20	6	0.178	0.256	0.078
20	7	0.119	0.090	-0.029
20	8	0.188	0.061	-0.127
20	9	0.168	0.198	0.030
20	10	0.007	0.071	0.064
35	11	0.178	0.027	-0.151
35	12	0.022	0.110	0.088
35	13	0.041	0.066	0.025
35	14	0.158	0.051	-0.107
35	15	0.119	0.017	-0.102
30	16	0.285	0.139	-0.146
30	17	0.168	0.129	-0.039
30	18	0.275	0.188	-0.087
30	19	0.056	0.032	-0.024
30	20	0.344	0.286	-0.058
55	21	0.017	0.168	0.151
55	22	0.071	0.168	0.097
55	23	0.183	0.203	0.020
55	24	0.129	0.159	0.030
55	25	0.227	0.007	-0.220
55	26	0.080	0.188	0.108
55	27	0.115	0.120	0.005
55	28	0.217	0.110	-0.107
55	29	0.168	0.159	-0.009
55	30	0.022	0.154	0.132
55	31	0.037	0.081	0.044
55	32	0.119	0.037	-0.082
55	33	0.066	0.012	-0.054
55	34	0.090	0.046	-0.044
55	35	0.095	0.159	0.064
55	36	0.119	0.066	-0.053
55	37	0.256	0.100	-0.156
55	38	0.158	0.071	-0.087
55	39	0.519	0.290	-0.229
55	40	0.105	0.100	-0.005
55	41	0.076	0.139	0.063
55	42	0.129	0.149	0.020
50	43	0.119	0.041	-0.078
50	44	0.139	0.071	-0.068
50	45	0.012	0.163	0.151
50	46	0.315	0.115	-0.200
50	47	0.017	0.032	0.015
	Max	0.519	0.354	0.313
	Average	0.141	0.118	-0.023
	Min	0.007	0.007	-0.322
	Std Dev	0.113	0.079	0.116

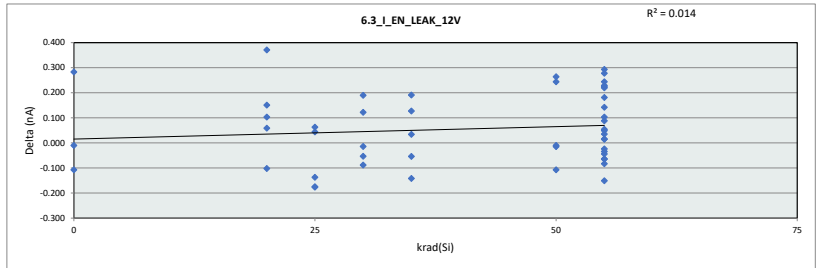
6.2_I_EN_LEAK_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	25	nA						
Min Limit		nA						
LL								
Min	0.032	0.061	0.032	0.032	0.017	0.032	0.007	
Average	0.180	0.135	0.105	0.155	0.054	0.084	0.122	
Max	0.354	0.256	0.207	0.286	0.110	0.163	0.290	
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000	



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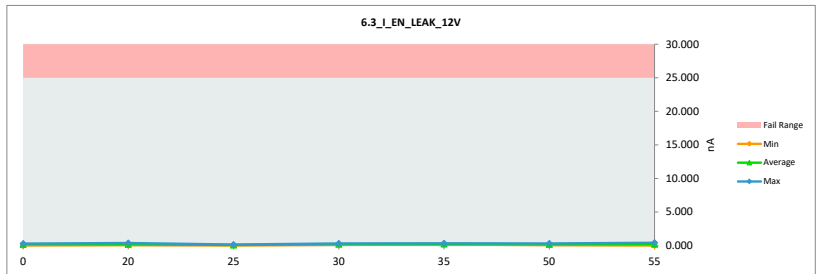
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.3_I_EN_LEAK_12V	
Test Site	
Tester	
Test Number	
Unit	nA nA
Max Limit	25 25
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.129	0.022	-0.107
0	51	0.290	0.280	-0.010
0	52	0.007	0.290	0.283
25	1	0.222	0.085	-0.137
25	2	0.241	0.066	-0.175
25	3	0.076	0.139	0.063
25	4	0.115	0.159	0.044
25	5	0.188	0.012	-0.176
20	6	0.241	0.139	-0.102
20	7	0.017	0.120	0.103
20	8	0.002	0.061	0.059
20	9	0.022	0.393	0.371
20	10	0.115	0.266	0.151
35	11	0.129	0.256	0.127
35	12	0.232	0.178	-0.054
35	13	0.085	0.276	0.191
35	14	0.310	0.168	-0.142
35	15	0.310	0.344	0.034
30	16	0.290	0.237	-0.053
30	17	0.193	0.315	0.122
30	18	0.188	0.100	-0.088
30	19	0.105	0.295	0.190
30	20	0.124	0.110	-0.014
55	21	0.046	0.061	0.015
55	22	0.193	0.422	0.229
55	23	0.232	0.188	-0.044
55	24	0.095	0.149	0.054
55	25	0.022	0.246	0.224
55	26	0.290	0.256	-0.034
55	27	0.193	0.129	-0.064
55	28	0.017	0.295	0.278
55	29	0.193	0.129	-0.064
55	30	0.051	0.295	0.244
55	31	0.012	0.305	0.293
55	32	0.202	0.422	0.220
55	33	0.124	0.266	0.142
55	34	0.046	0.081	0.035
55	35	0.041	0.090	0.049
55	36	0.212	0.393	0.181
55	37	0.032	0.120	0.088
55	38	0.095	0.012	-0.083
55	39	0.363	0.212	-0.151
55	40	0.329	0.305	-0.024
55	41	0.202	0.217	0.015
55	42	0.183	0.286	0.103
50	43	0.051	0.295	0.244
50	44	0.227	0.217	-0.010
50	45	0.115	0.100	-0.015
50	46	0.173	0.066	-0.107
50	47	0.061	0.325	0.264
	Max	0.363	0.422	0.371
	Average	0.149	0.204	0.055
	Min	0.002	0.012	-0.176
	Std Dev	0.099	0.111	0.142

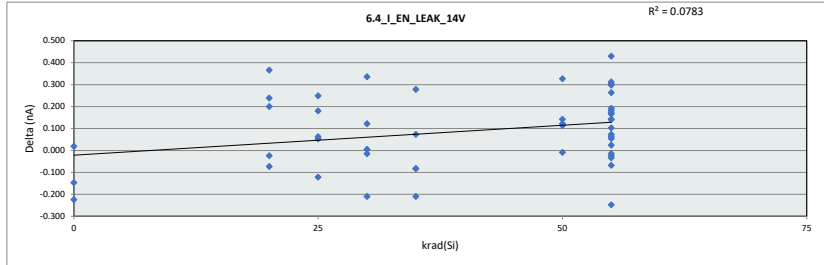
6.3_I_EN_LEAK_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	25	nA						
Min Limit		nA						
LL								
Min	0.022	0.061	0.012	0.100	0.168	0.066	0.012	
Average	0.197	0.196	0.092	0.211	0.244	0.201	0.222	
Max	0.290	0.393	0.159	0.315	0.344	0.325	0.422	
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000	



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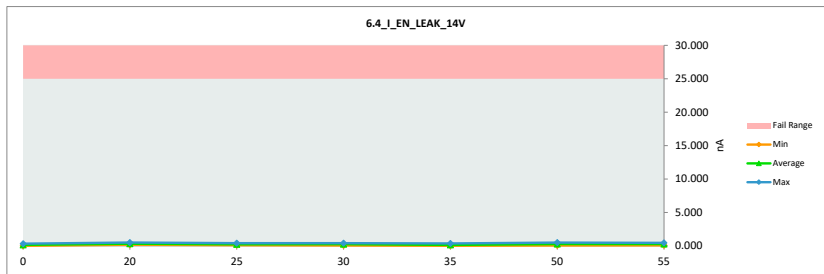
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.4_I_EN_LEAK_14V	
Test Site	
Tester	
Test Number	
Unit	nA nA
Max Limit	25 25
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.154	0.007	-0.147
0	51	0.329	0.105	-0.224
0	52	0.310	0.329	0.019
25	1	0.066	0.129	0.063
25	2	0.076	0.129	0.053
25	3	0.154	0.403	0.249
25	4	0.232	0.412	0.180
25	5	0.232	0.110	-0.122
20	6	0.066	0.305	0.239
20	7	0.251	0.178	-0.073
20	8	0.134	0.500	0.366
20	9	0.232	0.432	0.200
20	10	0.202	0.178	-0.024
35	11	0.193	0.110	-0.083
35	12	0.037	0.110	0.073
35	13	0.183	0.100	-0.083
35	14	0.076	0.354	0.278
35	15	0.232	0.022	-0.210
30	16	0.329	0.334	0.005
30	17	0.349	0.334	-0.015
30	18	0.007	0.129	0.122
30	19	0.076	0.412	0.336
30	20	0.261	0.051	-0.210
55	21	0.002	0.168	0.166
55	22	0.051	0.354	0.303
55	23	0.222	0.403	0.181
55	24	0.022	0.334	0.312
55	25	0.051	0.315	0.264
55	26	0.212	0.403	0.191
55	27	0.163	0.217	0.054
55	28	0.202	0.373	0.171
55	29	0.280	0.266	-0.014
55	30	0.076	0.100	0.024
55	31	0.002	0.432	0.430
55	32	0.183	0.325	0.142
55	33	0.407	0.383	-0.024
55	34	0.095	0.393	0.298
55	35	0.329	0.081	-0.248
55	36	0.261	0.334	0.073
55	37	0.095	0.159	0.064
55	38	0.124	0.090	-0.034
55	39	0.149	0.081	-0.068
55	40	0.310	0.451	0.141
55	41	0.056	0.159	0.103
55	42	0.046	0.237	0.191
50	43	0.080	0.071	-0.009
50	44	0.085	0.198	0.113
50	45	0.066	0.188	0.122
50	46	0.261	0.403	0.142
50	47	0.163	0.490	0.327
Max		0.407	0.500	0.430
Average		0.163	0.252	0.088
Min		0.002	0.007	-0.248
Std Dev		0.106	0.141	0.165

6.4_I_EN_LEAK_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	25	nA						
Min Limit		nA						
LL								
Min		0.007	0.178	0.110	0.051	0.022	0.071	0.081
Average		0.147	0.319	0.237	0.252	0.139	0.270	0.275
Max		0.329	0.500	0.412	0.412	0.354	0.490	0.451
UL		25.000	25.000	25.000	25.000	25.000	25.000	25.000

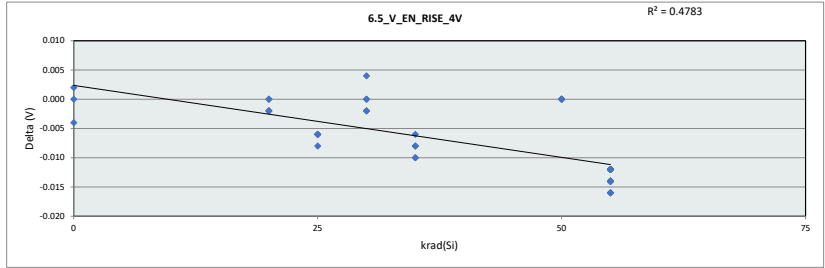


**HDR TID Report
TPS7H5005-SEP**

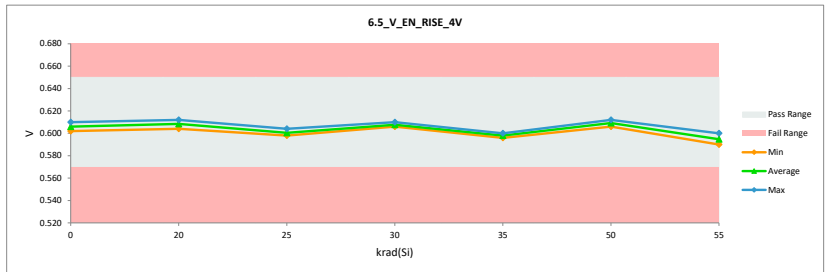
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.5_V_EN_RISE_4V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.65
Min Limit	0.57	0.57

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.610	0.610	0.000
0	51	0.606	0.602	-0.004
0	52	0.604	0.606	0.002
25	1	0.608	0.602	-0.006
25	2	0.606	0.598	-0.008
25	3	0.610	0.604	-0.006
25	4	0.606	0.600	-0.006
25	5	0.604	0.598	-0.006
20	6	0.610	0.610	0.000
20	7	0.612	0.612	0.000
20	8	0.606	0.604	-0.002
20	9	0.610	0.608	-0.002
20	10	0.610	0.608	-0.002
35	11	0.606	0.598	-0.008
35	12	0.610	0.600	-0.010
35	13	0.606	0.598	-0.008
35	14	0.606	0.596	-0.010
35	15	0.604	0.598	-0.006
30	16	0.608	0.606	-0.002
30	17	0.606	0.610	0.004
30	18	0.606	0.606	0.000
30	19	0.610	0.610	0.000
30	20	0.608	0.606	-0.002
55	21	0.610	0.598	-0.012
55	22	0.608	0.594	-0.014
55	23	0.606	0.592	-0.014
55	24	0.608	0.594	-0.014
55	25	0.604	0.592	-0.012
55	26	0.610	0.598	-0.012
55	27	0.608	0.596	-0.012
55	28	0.608	0.596	-0.012
55	29	0.610	0.596	-0.014
55	30	0.606	0.594	-0.012
55	31	0.610	0.598	-0.012
55	32	0.614	0.598	-0.016
55	33	0.610	0.596	-0.014
55	34	0.604	0.590	-0.014
55	35	0.606	0.592	-0.014
55	36	0.604	0.592	-0.012
55	37	0.608	0.594	-0.014
55	38	0.612	0.600	-0.012
55	39	0.608	0.594	-0.014
55	40	0.610	0.594	-0.016
55	41	0.606	0.594	-0.012
55	42	0.608	0.592	-0.016
50	43	0.606	0.606	0.000
50	44	0.610	0.610	0.000
50	45	0.610	0.610	0.000
50	46	0.608	0.608	0.000
50	47	0.612	0.612	0.000
Max		0.614	0.612	0.004
Average		0.608	0.600	-0.008
Min		0.604	0.590	-0.016
Std Dev		0.002	0.007	0.006



6.5_V_EN_RISE_4V							
Test Site							
Tester							
Test Number							
Max Limit	0.65	V					
Min Limit	0.57	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.602	0.604	0.598	0.606	0.596	0.606	0.590
Average	0.606	0.608	0.600	0.608	0.598	0.609	0.595
Max	0.610	0.612	0.604	0.610	0.600	0.612	0.600
UL	0.650	0.650	0.650	0.650	0.650	0.650	0.650

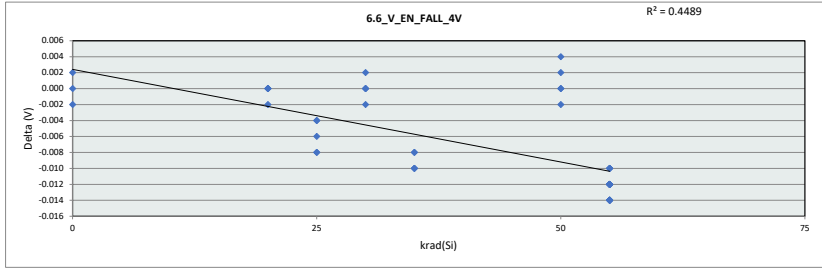


**HDR TID Report
TPS7H5005-SEP**

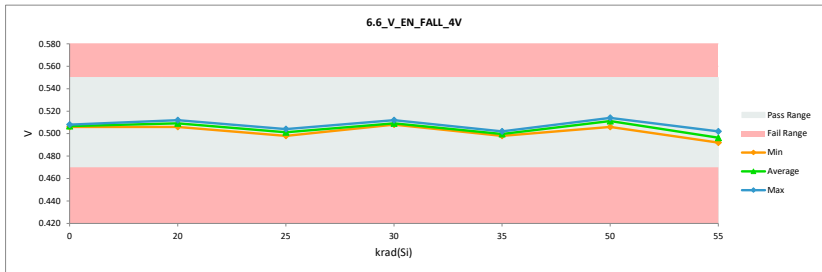
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.6_V_EN_FALL_4V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.55
Min Limit	0.47	0.47

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.510	0.508	-0.002
0	51	0.506	0.506	0.000
0	52	0.504	0.506	0.002
25	1	0.508	0.504	-0.004
25	2	0.506	0.498	-0.008
25	3	0.510	0.504	-0.006
25	4	0.508	0.500	-0.008
25	5	0.504	0.500	-0.004
20	6	0.510	0.510	0.000
20	7	0.512	0.512	0.000
20	8	0.506	0.506	0.000
20	9	0.510	0.510	0.000
20	10	0.510	0.508	-0.002
35	11	0.508	0.500	-0.008
35	12	0.512	0.502	-0.010
35	13	0.508	0.500	-0.008
35	14	0.508	0.498	-0.010
35	15	0.508	0.498	-0.010
30	16	0.508	0.508	0.000
30	17	0.508	0.510	0.002
30	18	0.508	0.508	0.000
30	19	0.512	0.512	0.000
30	20	0.510	0.508	-0.002
55	21	0.510	0.498	-0.012
55	22	0.508	0.496	-0.012
55	23	0.508	0.494	-0.014
55	24	0.510	0.498	-0.012
55	25	0.504	0.494	-0.010
55	26	0.510	0.500	-0.010
55	27	0.508	0.498	-0.010
55	28	0.510	0.500	-0.010
55	29	0.510	0.498	-0.012
55	30	0.506	0.494	-0.012
55	31	0.512	0.498	-0.014
55	32	0.514	0.502	-0.012
55	33	0.510	0.496	-0.014
55	34	0.506	0.492	-0.014
55	35	0.506	0.492	-0.014
55	36	0.506	0.492	-0.014
55	37	0.510	0.498	-0.012
55	38	0.514	0.502	-0.012
55	39	0.506	0.494	-0.012
55	40	0.510	0.496	-0.014
55	41	0.506	0.494	-0.012
55	42	0.508	0.494	-0.014
50	43	0.506	0.506	0.000
50	44	0.514	0.512	-0.002
50	45	0.510	0.514	0.004
50	46	0.508	0.510	0.002
50	47	0.514	0.514	0.000
Max		0.514	0.514	0.004
Average		0.509	0.502	-0.007
Min		0.504	0.492	-0.014
Std Dev		0.003	0.006	0.006



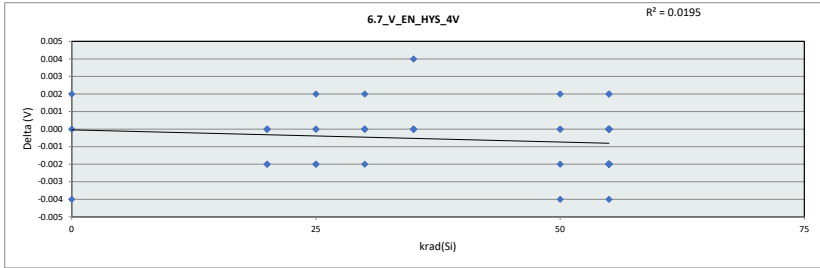
6.6_V_EN_FALL_4V							
Test Site							
Tester							
Test Number							
Max Limit	0.55	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.506	0.506	0.498	0.508	0.498	0.506	0.492
Average	0.507	0.509	0.501	0.509	0.500	0.511	0.496
Max	0.508	0.512	0.504	0.512	0.502	0.514	0.502
UL	0.550	0.550	0.550	0.550	0.550	0.550	0.550



**HDR TID Report
TPS7H5005-SEP**

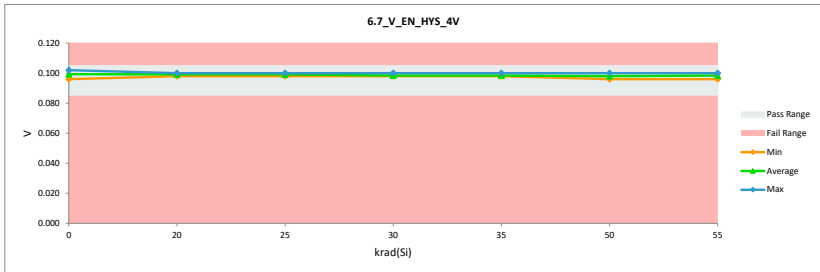
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.7_V_EN_HYS_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.105
Min Limit	0.085



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.100	0.102	0.002
0	51	0.100	0.096	-0.004
0	52	0.100	0.100	0.000
25	1	0.100	0.098	-0.002
25	2	0.100	0.100	0.000
25	3	0.100	0.100	0.000
25	4	0.098	0.100	0.002
25	5	0.100	0.098	-0.002
20	6	0.100	0.100	0.000
20	7	0.100	0.100	0.000
20	8	0.100	0.098	-0.002
20	9	0.100	0.098	-0.002
20	10	0.100	0.100	0.000
35	11	0.098	0.098	0.000
35	12	0.098	0.098	0.000
35	13	0.098	0.098	0.000
35	14	0.098	0.098	0.000
35	15	0.096	0.100	0.004
30	16	0.100	0.098	-0.002
30	17	0.098	0.100	0.002
30	18	0.098	0.098	0.000
30	19	0.098	0.098	0.000
30	20	0.098	0.098	0.000
55	21	0.100	0.100	0.000
55	22	0.100	0.098	-0.002
55	23	0.098	0.098	0.000
55	24	0.098	0.096	-0.002
55	25	0.100	0.098	-0.002
55	26	0.100	0.098	-0.002
55	27	0.100	0.098	-0.002
55	28	0.098	0.096	-0.002
55	29	0.100	0.098	-0.002
55	30	0.100	0.100	0.000
55	31	0.098	0.100	0.002
55	32	0.100	0.096	-0.004
55	33	0.100	0.100	0.000
55	34	0.098	0.098	0.000
55	35	0.100	0.100	0.000
55	36	0.098	0.100	0.002
55	37	0.098	0.096	-0.002
55	38	0.098	0.098	0.000
55	39	0.102	0.100	-0.002
55	40	0.100	0.098	-0.002
55	41	0.100	0.100	0.000
55	42	0.100	0.098	-0.002
50	43	0.100	0.100	0.000
50	44	0.096	0.098	0.002
50	45	0.100	0.096	-0.004
50	46	0.100	0.098	-0.002
50	47	0.098	0.098	0.000
Max		0.102	0.102	0.004
Average		0.099	0.099	-0.001
Min		0.096	0.096	-0.004
Std Dev		0.001	0.001	0.002

6.7_V_EN_HYS_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.105	V						
Min Limit	0.085	V						
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.096	0.098	0.098	0.098	0.098	0.096	0.096	0.096
Average	0.099	0.099	0.099	0.098	0.098	0.098	0.098	0.098
Max	0.102	0.100	0.100	0.100	0.100	0.100	0.100	0.100
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

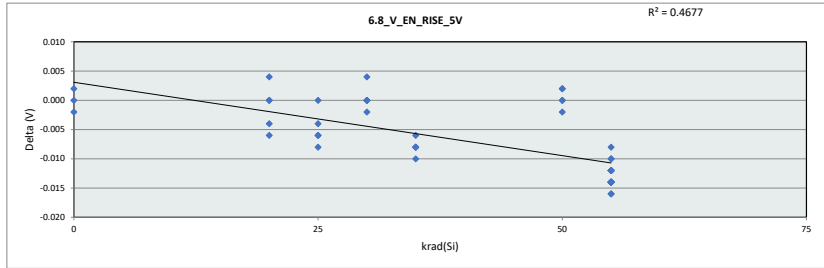


**HDR TID Report
TPS7H5005-SEP**

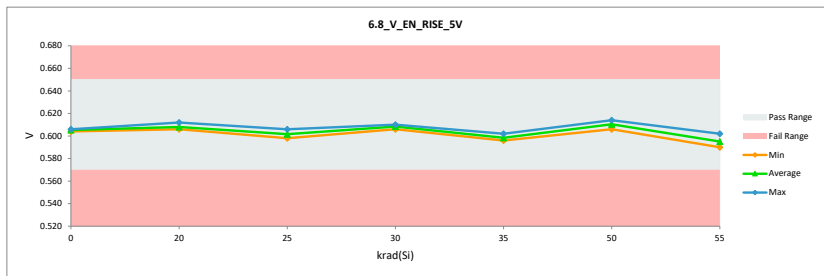
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.8_V_EN_RISE_5V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.65
Min Limit	0.57	0.57

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.606	0.606	0.000
0	51	0.606	0.604	-0.002
0	52	0.604	0.606	0.002
25	1	0.604	0.604	0.000
25	2	0.606	0.598	-0.008
25	3	0.610	0.606	-0.004
25	4	0.606	0.600	-0.006
25	5	0.606	0.600	-0.006
20	6	0.612	0.606	-0.006
20	7	0.612	0.612	0.000
20	8	0.606	0.606	0.000
20	9	0.606	0.610	0.004
20	10	0.610	0.606	-0.004
35	11	0.606	0.598	-0.008
35	12	0.610	0.602	-0.008
35	13	0.606	0.598	-0.008
35	14	0.606	0.596	-0.010
35	15	0.604	0.598	-0.006
30	16	0.608	0.606	-0.002
30	17	0.606	0.610	0.004
30	18	0.608	0.608	0.000
30	19	0.610	0.610	0.000
30	20	0.608	0.608	0.000
55	21	0.610	0.600	-0.010
55	22	0.608	0.596	-0.012
55	23	0.608	0.592	-0.016
55	24	0.608	0.594	-0.014
55	25	0.606	0.592	-0.014
55	26	0.612	0.600	-0.012
55	27	0.608	0.596	-0.012
55	28	0.610	0.598	-0.012
55	29	0.606	0.598	-0.008
55	30	0.606	0.594	-0.012
55	31	0.612	0.598	-0.014
55	32	0.612	0.600	-0.012
55	33	0.606	0.592	-0.014
55	34	0.604	0.590	-0.014
55	35	0.606	0.592	-0.014
55	36	0.606	0.592	-0.014
55	37	0.608	0.594	-0.014
55	38	0.612	0.602	-0.010
55	39	0.608	0.594	-0.014
55	40	0.606	0.594	-0.012
55	41	0.606	0.592	-0.014
55	42	0.608	0.592	-0.016
50	43	0.608	0.606	-0.002
50	44	0.610	0.610	0.000
50	45	0.610	0.612	0.002
50	46	0.610	0.610	0.000
50	47	0.612	0.614	0.002
	Max	0.612	0.614	0.004
	Average	0.608	0.601	-0.007
	Min	0.604	0.590	-0.016
	Std Dev	0.002	0.007	0.006



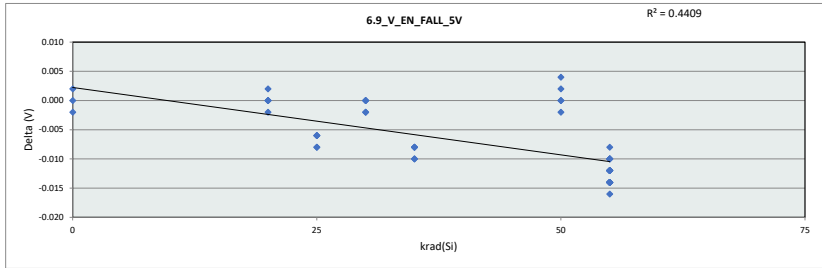
6.8_V_EN_RISE_5V							
Test Site							
Tester							
Test Number							
Max Limit	0.65	V					
Min Limit	0.57	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.604	0.606	0.598	0.606	0.596	0.606	0.590
Average	0.605	0.608	0.602	0.608	0.598	0.610	0.595
Max	0.606	0.612	0.606	0.610	0.602	0.614	0.602
UL	0.650	0.650	0.650	0.650	0.650	0.650	0.650



**HDR TID Report
TPS7H5005-SEP**

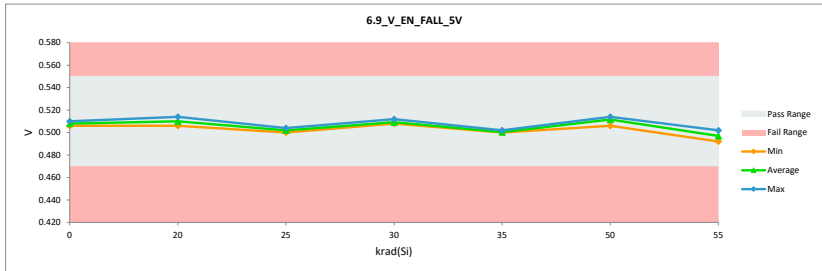
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.9_V_EN_FALL_5V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.55
Min Limit	0.47	0.47



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.510	0.510	0.000
0	51	0.508	0.506	-0.002
0	52	0.506	0.508	0.002
25	1	0.510	0.504	-0.006
25	2	0.506	0.500	-0.006
25	3	0.510	0.504	-0.006
25	4	0.510	0.502	-0.008
25	5	0.508	0.500	-0.008
20	6	0.510	0.510	0.000
20	7	0.512	0.514	0.002
20	8	0.506	0.506	0.000
20	9	0.510	0.510	0.000
20	10	0.512	0.510	-0.002
35	11	0.510	0.500	-0.010
35	12	0.512	0.502	-0.010
35	13	0.508	0.500	-0.008
35	14	0.508	0.500	-0.008
35	15	0.508	0.500	-0.008
30	16	0.510	0.508	-0.002
30	17	0.510	0.510	0.000
30	18	0.508	0.508	0.000
30	19	0.512	0.512	0.000
30	20	0.510	0.508	-0.002
55	21	0.510	0.500	-0.010
55	22	0.510	0.496	-0.014
55	23	0.508	0.494	-0.014
55	24	0.510	0.498	-0.012
55	25	0.504	0.494	-0.010
55	26	0.512	0.502	-0.010
55	27	0.512	0.498	-0.014
55	28	0.510	0.502	-0.008
55	29	0.510	0.498	-0.012
55	30	0.506	0.494	-0.012
55	31	0.512	0.498	-0.014
55	32	0.514	0.502	-0.012
55	33	0.510	0.496	-0.014
55	34	0.506	0.492	-0.014
55	35	0.508	0.494	-0.014
55	36	0.506	0.492	-0.014
55	37	0.510	0.498	-0.012
55	38	0.514	0.502	-0.012
55	39	0.508	0.496	-0.012
55	40	0.512	0.498	-0.014
55	41	0.506	0.496	-0.010
55	42	0.510	0.494	-0.016
50	43	0.508	0.506	-0.002
50	44	0.514	0.514	0.000
50	45	0.510	0.514	0.004
50	46	0.508	0.510	0.002
50	47	0.514	0.514	0.000
Max		0.514	0.514	0.004
Average		0.510	0.502	-0.007
Min		0.504	0.492	-0.016
Std Dev		0.002	0.006	0.006

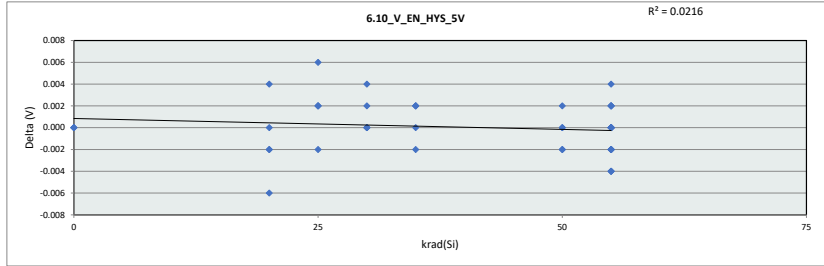
6.9_V_EN_FALL_5V							
Test Site							
Tester							
Test Number							
Max Limit	0.55	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.506	0.506	0.500	0.508	0.500	0.506	0.492
Average	0.508	0.510	0.502	0.509	0.500	0.512	0.497
Max	0.510	0.514	0.504	0.512	0.502	0.514	0.502
UL	0.550	0.550	0.550	0.550	0.550	0.550	0.550



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

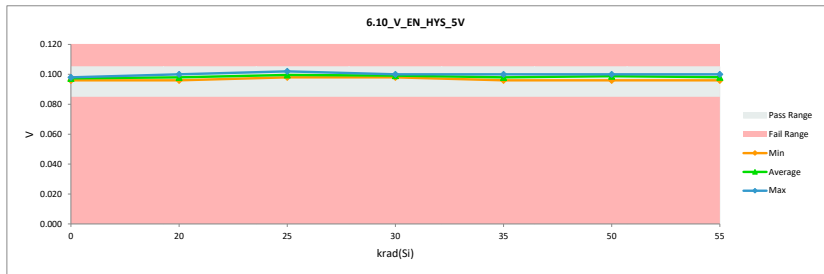
6.10_V_EN_HYS_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.105
Min Limit	0.085



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.096	0.096	0.000
0	51	0.098	0.098	0.000
0	52	0.098	0.098	0.000
25	1	0.094	0.100	0.006
25	2	0.100	0.098	-0.002
25	3	0.100	0.102	0.002
25	4	0.096	0.098	0.002
25	5	0.098	0.100	0.002
20	6	0.102	0.096	-0.006
20	7	0.100	0.098	-0.002
20	8	0.100	0.100	0.000
20	9	0.096	0.100	0.004
20	10	0.098	0.096	-0.002
35	11	0.096	0.098	0.002
35	12	0.098	0.100	0.002
35	13	0.098	0.098	0.000
35	14	0.098	0.096	-0.002
35	15	0.096	0.098	0.002
30	16	0.098	0.098	0.000
30	17	0.096	0.100	0.004
30	18	0.100	0.100	0.000
30	19	0.098	0.098	0.000
30	20	0.098	0.100	0.002
55	21	0.100	0.100	0.000
55	22	0.098	0.100	0.002
55	23	0.100	0.098	-0.002
55	24	0.098	0.096	-0.002
55	25	0.102	0.098	-0.004
55	26	0.100	0.098	-0.002
55	27	0.096	0.098	0.002
55	28	0.100	0.096	-0.004
55	29	0.096	0.100	0.004
55	30	0.100	0.100	0.000
55	31	0.100	0.100	0.000
55	32	0.098	0.098	0.000
55	33	0.096	0.096	0.000
55	34	0.098	0.098	0.000
55	35	0.098	0.098	0.000
55	36	0.100	0.100	0.000
55	37	0.098	0.096	-0.002
55	38	0.098	0.100	0.002
55	39	0.100	0.098	-0.002
55	40	0.094	0.096	0.002
55	41	0.100	0.096	-0.004
55	42	0.098	0.098	0.000
50	43	0.100	0.100	0.000
50	44	0.096	0.096	0.000
50	45	0.100	0.098	-0.002
50	46	0.102	0.100	-0.002
50	47	0.098	0.100	0.002
Max		0.102	0.102	0.006
Average		0.098	0.098	0.000
Min		0.094	0.096	-0.006
Std Dev		0.002	0.002	0.002

6.10_V_EN_HYS_5V	
Test Site	
Tester	
Test Number	
Max Limit	0.105
Min Limit	0.085

krad(Si)	0	20	25	30	35	50	55
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.096	0.096	0.098	0.098	0.096	0.096	0.096
Average	0.097	0.098	0.100	0.099	0.098	0.099	0.098
Max	0.098	0.100	0.102	0.100	0.100	0.100	0.100
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105

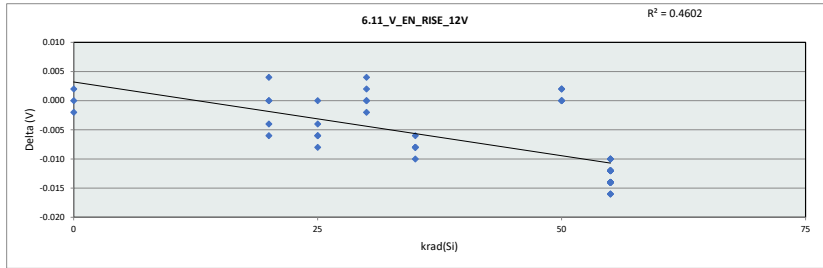


**HDR TID Report
TPS7H5005-SEP**

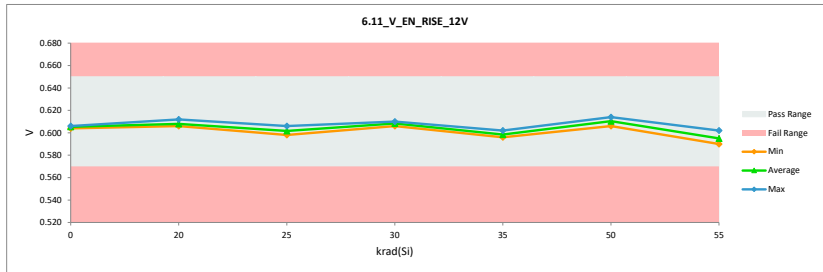
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.11 V_EN_RISE_12V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.65
Min Limit	0.57	0.57

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.606	0.606	0.000
0	51	0.606	0.604	-0.002
0	52	0.604	0.606	0.002
25	1	0.604	0.604	0.000
25	2	0.606	0.598	-0.008
25	3	0.610	0.606	-0.004
25	4	0.606	0.600	-0.006
25	5	0.606	0.600	-0.006
20	6	0.612	0.606	-0.006
20	7	0.612	0.612	0.000
20	8	0.606	0.606	0.000
20	9	0.606	0.610	0.004
20	10	0.610	0.606	-0.004
35	11	0.606	0.598	-0.008
35	12	0.610	0.602	-0.008
35	13	0.606	0.598	-0.008
35	14	0.606	0.596	-0.010
35	15	0.604	0.598	-0.006
30	16	0.608	0.606	-0.002
30	17	0.606	0.610	0.004
30	18	0.606	0.608	0.002
30	19	0.610	0.610	0.000
30	20	0.608	0.608	0.000
55	21	0.610	0.600	-0.010
55	22	0.608	0.596	-0.012
55	23	0.608	0.592	-0.016
55	24	0.608	0.594	-0.014
55	25	0.606	0.592	-0.014
55	26	0.612	0.600	-0.012
55	27	0.608	0.596	-0.012
55	28	0.610	0.598	-0.012
55	29	0.606	0.596	-0.010
55	30	0.606	0.594	-0.012
55	31	0.612	0.598	-0.014
55	32	0.612	0.600	-0.012
55	33	0.606	0.592	-0.014
55	34	0.604	0.590	-0.014
55	35	0.606	0.592	-0.014
55	36	0.606	0.592	-0.014
55	37	0.608	0.594	-0.014
55	38	0.612	0.602	-0.010
55	39	0.608	0.594	-0.014
55	40	0.606	0.594	-0.012
55	41	0.606	0.592	-0.014
55	42	0.608	0.592	-0.016
50	43	0.606	0.606	0.000
50	44	0.610	0.610	0.000
50	45	0.610	0.612	0.002
50	46	0.610	0.610	0.000
50	47	0.612	0.614	0.002
	Max	0.612	0.614	0.004
	Average	0.608	0.601	-0.007
	Min	0.604	0.590	-0.016
	Std Dev	0.002	0.007	0.006



6.11_V_EN_RISE_12V							
Test Site							
Tester							
Test Number							
Max Limit	0.65	V					
Min Limit	0.57	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.604	0.606	0.598	0.606	0.596	0.606	0.590
Average	0.605	0.608	0.602	0.608	0.598	0.610	0.595
Max	0.606	0.612	0.606	0.610	0.602	0.614	0.602
UL	0.650	0.650	0.650	0.650	0.650	0.650	0.650

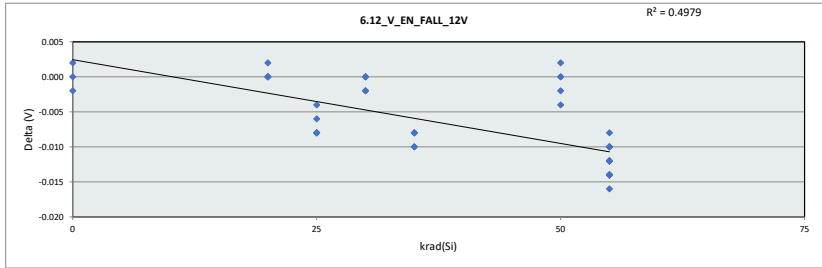


**HDR TID Report
TPS7H5005-SEP**

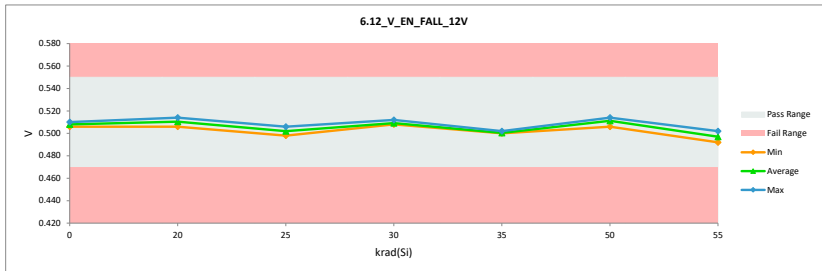
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.12_V_EN_FALL_12V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.55
Min Limit	0.47	0.47

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.510	0.510	0.000
0	51	0.508	0.506	-0.002
0	52	0.506	0.508	0.002
25	1	0.510	0.504	-0.006
25	2	0.506	0.498	-0.008
25	3	0.510	0.506	-0.004
25	4	0.510	0.502	-0.008
25	5	0.508	0.500	-0.008
20	6	0.510	0.510	0.000
20	7	0.512	0.514	0.002
20	8	0.506	0.506	0.000
20	9	0.510	0.510	0.000
20	10	0.512	0.512	0.000
35	11	0.510	0.500	-0.010
35	12	0.512	0.502	-0.010
35	13	0.508	0.500	-0.008
35	14	0.508	0.500	-0.008
35	15	0.508	0.500	-0.008
30	16	0.510	0.508	-0.002
30	17	0.510	0.510	0.000
30	18	0.508	0.508	0.000
30	19	0.512	0.512	0.000
30	20	0.510	0.508	-0.002
55	21	0.510	0.500	-0.010
55	22	0.510	0.496	-0.014
55	23	0.508	0.494	-0.014
55	24	0.510	0.498	-0.012
55	25	0.504	0.494	-0.010
55	26	0.512	0.502	-0.010
55	27	0.512	0.498	-0.014
55	28	0.510	0.502	-0.008
55	29	0.510	0.498	-0.012
55	30	0.506	0.494	-0.012
55	31	0.512	0.498	-0.014
55	32	0.514	0.502	-0.012
55	33	0.510	0.496	-0.014
55	34	0.506	0.492	-0.014
55	35	0.508	0.494	-0.014
55	36	0.506	0.492	-0.014
55	37	0.510	0.498	-0.012
55	38	0.514	0.502	-0.012
55	39	0.508	0.496	-0.012
55	40	0.512	0.498	-0.014
55	41	0.506	0.496	-0.010
55	42	0.510	0.494	-0.016
50	43	0.510	0.506	-0.004
50	44	0.514	0.512	-0.002
50	45	0.512	0.514	0.002
50	46	0.510	0.510	0.000
50	47	0.514	0.514	0.000
Max		0.514	0.514	0.002
Average		0.510	0.502	-0.007
Min		0.504	0.492	-0.016
Std Dev		0.002	0.006	0.006



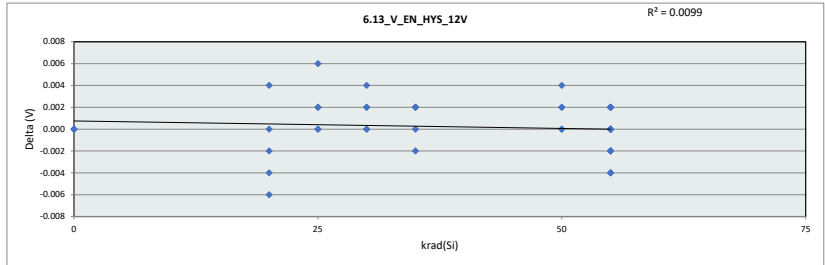
6.12_V_EN_FALL_12V							
Test Site							
Tester							
Test Number							
Max Limit	0.55	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.506	0.506	0.498	0.508	0.500	0.506	0.492
Average	0.508	0.510	0.502	0.509	0.500	0.511	0.497
Max	0.510	0.514	0.506	0.512	0.502	0.514	0.502
UL	0.550	0.550	0.550	0.550	0.550	0.550	0.550



**HDR TID Report
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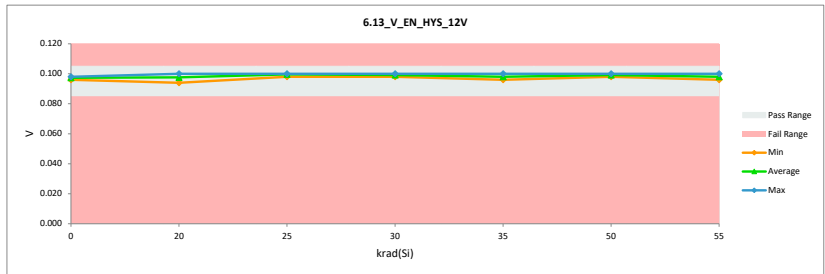
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.13_V_EN_HYS_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.105
Min Limit	0.085



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.096	0.096	0.000
0	51	0.098	0.098	0.000
0	52	0.098	0.098	0.000
25	1	0.094	0.100	0.006
25	2	0.100	0.100	0.000
25	3	0.100	0.100	0.000
25	4	0.096	0.098	0.002
25	5	0.098	0.100	0.002
20	6	0.102	0.096	-0.006
20	7	0.100	0.098	-0.002
20	8	0.100	0.100	0.000
20	9	0.096	0.100	0.004
20	10	0.098	0.094	-0.004
35	11	0.096	0.098	0.002
35	12	0.098	0.100	0.002
35	13	0.098	0.098	0.000
35	14	0.098	0.096	-0.002
35	15	0.096	0.098	0.002
30	16	0.098	0.098	0.000
30	17	0.096	0.100	0.004
30	18	0.098	0.100	0.002
30	19	0.098	0.098	0.000
30	20	0.098	0.100	0.002
55	21	0.100	0.100	0.000
55	22	0.098	0.100	0.002
55	23	0.100	0.098	-0.002
55	24	0.098	0.096	-0.002
55	25	0.102	0.098	-0.004
55	26	0.100	0.098	-0.002
55	27	0.096	0.098	0.002
55	28	0.100	0.096	-0.004
55	29	0.096	0.098	0.002
55	30	0.100	0.100	0.000
55	31	0.100	0.100	0.000
55	32	0.098	0.098	0.000
55	33	0.096	0.096	0.000
55	34	0.098	0.098	0.000
55	35	0.098	0.098	0.000
55	36	0.100	0.100	0.000
55	37	0.098	0.096	-0.002
55	38	0.098	0.100	0.002
55	39	0.100	0.098	-0.002
55	40	0.094	0.096	0.002
55	41	0.100	0.096	-0.004
55	42	0.098	0.098	0.000
50	43	0.096	0.100	0.004
50	44	0.096	0.098	0.002
50	45	0.098	0.098	0.000
50	46	0.100	0.100	0.000
50	47	0.098	0.100	0.002
	Max	0.102	0.100	0.006
	Average	0.098	0.098	0.000
	Min	0.094	0.094	-0.006
	Std Dev	0.002	0.002	0.002

6.13_V_EN_HYS_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.105	V						
Min Limit	0.085	V						
krad(Si)		0	20	25	30	35	50	55
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.096	0.094	0.098	0.098	0.098	0.096	0.098	0.096
Average	0.097	0.098	0.100	0.099	0.098	0.099	0.099	0.098
Max	0.098	0.100	0.100	0.100	0.100	0.100	0.100	0.100
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

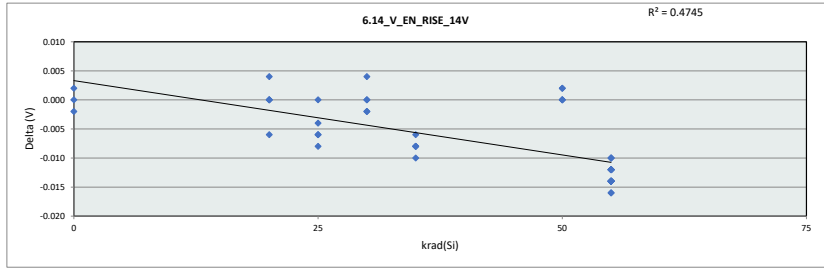


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TPS7H5005-SEP**

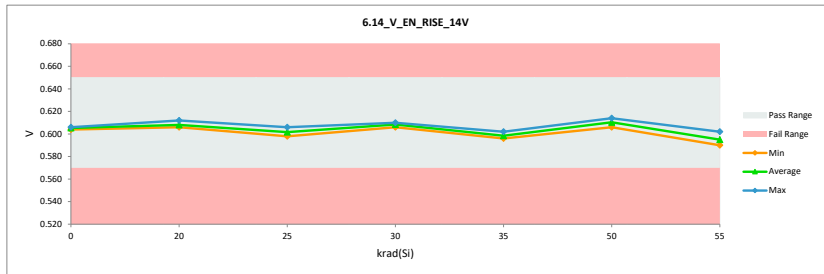
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.14_V_EN_RISE_14V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.65
Min Limit	0.57	0.57

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.606	0.606	0.000
0	51	0.606	0.604	-0.002
0	52	0.604	0.606	0.002
25	1	0.604	0.604	0.000
25	2	0.606	0.598	-0.008
25	3	0.610	0.606	-0.004
25	4	0.606	0.600	-0.006
25	5	0.606	0.600	-0.006
20	6	0.612	0.606	-0.006
20	7	0.612	0.612	0.000
20	8	0.606	0.606	0.000
20	9	0.606	0.610	0.004
20	10	0.606	0.606	0.000
35	11	0.606	0.598	-0.008
35	12	0.610	0.602	-0.008
35	13	0.606	0.598	-0.008
35	14	0.606	0.596	-0.010
35	15	0.604	0.598	-0.006
30	16	0.608	0.606	-0.002
30	17	0.606	0.610	0.004
30	18	0.608	0.608	0.000
30	19	0.612	0.610	-0.002
30	20	0.608	0.608	0.000
55	21	0.610	0.600	-0.010
55	22	0.608	0.596	-0.012
55	23	0.608	0.592	-0.016
55	24	0.608	0.594	-0.014
55	25	0.606	0.592	-0.014
55	26	0.612	0.600	-0.012
55	27	0.608	0.596	-0.012
55	28	0.610	0.598	-0.012
55	29	0.606	0.596	-0.010
55	30	0.606	0.594	-0.012
55	31	0.612	0.598	-0.014
55	32	0.612	0.600	-0.012
55	33	0.606	0.592	-0.014
55	34	0.604	0.590	-0.014
55	35	0.606	0.592	-0.014
55	36	0.606	0.592	-0.014
55	37	0.608	0.594	-0.014
55	38	0.612	0.602	-0.010
55	39	0.608	0.594	-0.014
55	40	0.606	0.594	-0.012
55	41	0.606	0.592	-0.014
55	42	0.608	0.592	-0.016
50	43	0.606	0.606	0.000
50	44	0.610	0.610	0.000
50	45	0.610	0.612	0.002
50	46	0.610	0.610	0.000
50	47	0.612	0.614	0.002
	Max	0.612	0.614	0.004
	Average	0.608	0.601	-0.007
	Min	0.604	0.590	-0.016
	Std Dev	0.002	0.007	0.006



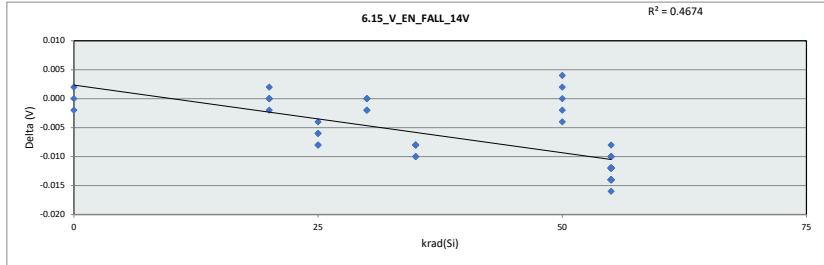
6.14_V_EN_RISE_14V							
Test Site							
Tester							
Test Number							
Max Limit	0.65	V					
Min Limit	0.57	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.604	0.606	0.598	0.606	0.596	0.606	0.590
Average	0.605	0.608	0.602	0.608	0.598	0.610	0.595
Max	0.606	0.612	0.606	0.610	0.602	0.614	0.602
UL	0.650	0.650	0.650	0.650	0.650	0.650	0.650



**HDR TID Report
TPS7H5005-SEP**

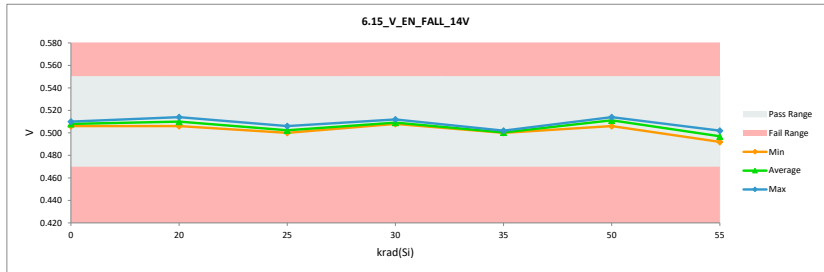
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.15_V_EN_FALL_14V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.55
Min Limit	0.47	0.47



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.510	0.510	0.000
0	51	0.508	0.506	-0.002
0	52	0.506	0.508	0.002
25	1	0.510	0.504	-0.006
25	2	0.506	0.500	-0.006
25	3	0.510	0.506	-0.004
25	4	0.510	0.502	-0.008
25	5	0.508	0.500	-0.008
20	6	0.510	0.510	0.000
20	7	0.512	0.514	0.002
20	8	0.506	0.506	0.000
20	9	0.510	0.510	0.000
20	10	0.512	0.510	-0.002
35	11	0.510	0.500	-0.010
35	12	0.512	0.502	-0.010
35	13	0.508	0.500	-0.008
35	14	0.508	0.500	-0.008
35	15	0.508	0.500	-0.008
30	16	0.510	0.508	-0.002
30	17	0.510	0.510	0.000
30	18	0.508	0.508	0.000
30	19	0.512	0.512	0.000
30	20	0.510	0.508	-0.002
55	21	0.510	0.500	-0.010
55	22	0.508	0.496	-0.012
55	23	0.508	0.494	-0.014
55	24	0.510	0.498	-0.012
55	25	0.504	0.494	-0.010
55	26	0.512	0.502	-0.010
55	27	0.512	0.498	-0.014
55	28	0.510	0.502	-0.008
55	29	0.510	0.498	-0.012
55	30	0.506	0.494	-0.012
55	31	0.512	0.498	-0.014
55	32	0.514	0.502	-0.012
55	33	0.510	0.496	-0.014
55	34	0.506	0.492	-0.014
55	35	0.508	0.494	-0.014
55	36	0.506	0.492	-0.014
55	37	0.510	0.498	-0.012
55	38	0.514	0.502	-0.012
55	39	0.508	0.496	-0.012
55	40	0.512	0.498	-0.014
55	41	0.506	0.496	-0.010
55	42	0.510	0.494	-0.016
50	43	0.510	0.506	-0.004
50	44	0.514	0.512	-0.002
50	45	0.510	0.514	0.004
50	46	0.508	0.510	0.002
50	47	0.514	0.514	0.000
	Max	0.514	0.514	0.004
	Average	0.510	0.502	-0.007
	Min	0.504	0.492	-0.016
	Std Dev	0.002	0.006	0.006

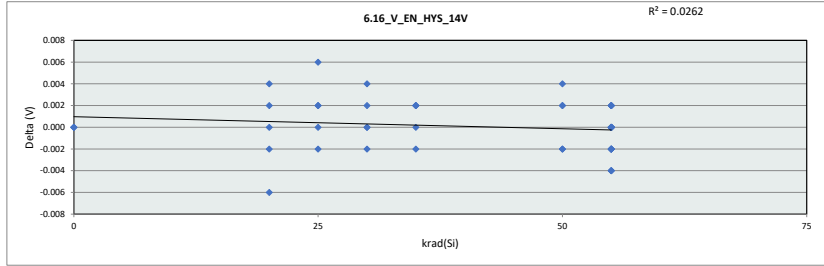
6.15_V_EN_FALL_14V							
Test Site							
Tester							
Test Number							
Max Limit	0.55	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.506	0.506	0.500	0.508	0.500	0.506	0.492
Average	0.508	0.510	0.502	0.509	0.500	0.511	0.497
Max	0.510	0.514	0.506	0.512	0.502	0.514	0.502
UL	0.550	0.550	0.550	0.550	0.550	0.550	0.550



**HDR TID Report
TPS7H5005-SEP**

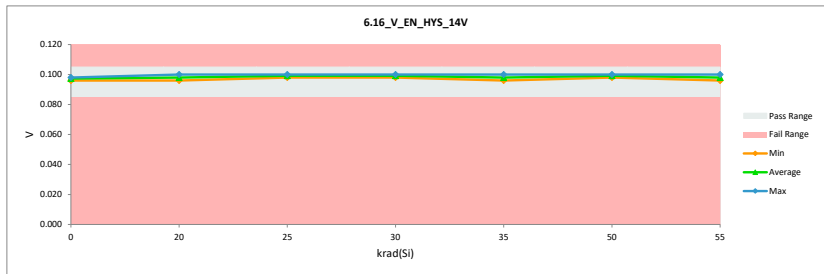
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.16_V_EN_HYS_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.105
Min Limit	0.085



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.096	0.096	0.000
0	51	0.098	0.098	0.000
0	52	0.098	0.098	0.000
25	1	0.094	0.100	0.006
25	2	0.100	0.098	-0.002
25	3	0.100	0.100	0.000
25	4	0.096	0.098	0.002
25	5	0.098	0.100	0.002
20	6	0.102	0.096	-0.006
20	7	0.100	0.098	-0.002
20	8	0.100	0.100	0.000
20	9	0.096	0.100	0.004
20	10	0.094	0.096	0.002
35	11	0.096	0.098	0.002
35	12	0.098	0.100	0.002
35	13	0.098	0.098	0.000
35	14	0.098	0.096	-0.002
35	15	0.096	0.098	0.002
30	16	0.098	0.098	0.000
30	17	0.096	0.100	0.004
30	18	0.100	0.100	0.000
30	19	0.100	0.098	-0.002
30	20	0.098	0.100	0.002
55	21	0.100	0.100	0.000
55	22	0.100	0.100	0.000
55	23	0.100	0.098	-0.002
55	24	0.098	0.096	-0.002
55	25	0.102	0.098	-0.004
55	26	0.100	0.098	-0.002
55	27	0.096	0.098	0.002
55	28	0.100	0.096	-0.004
55	29	0.096	0.098	0.002
55	30	0.100	0.100	0.000
55	31	0.100	0.100	0.000
55	32	0.098	0.098	0.000
55	33	0.096	0.096	0.000
55	34	0.098	0.098	0.000
55	35	0.098	0.098	0.000
55	36	0.100	0.100	0.000
55	37	0.098	0.096	-0.002
55	38	0.098	0.100	0.002
55	39	0.100	0.098	-0.002
55	40	0.094	0.096	0.002
55	41	0.100	0.096	-0.004
55	42	0.098	0.098	0.000
50	43	0.096	0.100	0.004
50	44	0.096	0.098	0.002
50	45	0.100	0.098	-0.002
50	46	0.102	0.100	-0.002
50	47	0.098	0.100	0.002
Max		0.102	0.100	0.006
Average		0.098	0.098	0.000
Min		0.094	0.096	-0.006
Std Dev		0.002	0.001	0.002

6.16_V_EN_HYS_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.105	V						
Min Limit	0.085	V						
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.096	0.096	0.098	0.098	0.098	0.096	0.098	0.096
Average	0.097	0.098	0.099	0.099	0.098	0.099	0.099	0.098
Max	0.098	0.100	0.100	0.100	0.100	0.100	0.100	0.100
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105



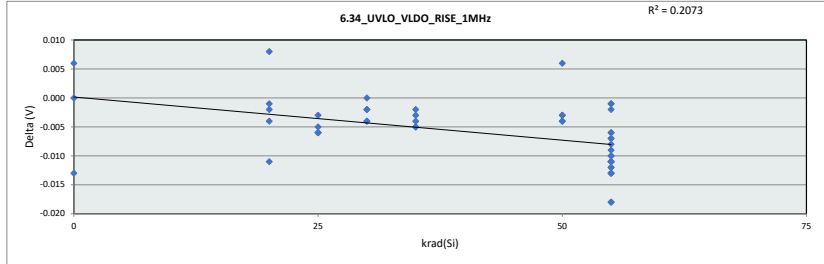
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.34 UVLO_VLDO_RISE_1MHz

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

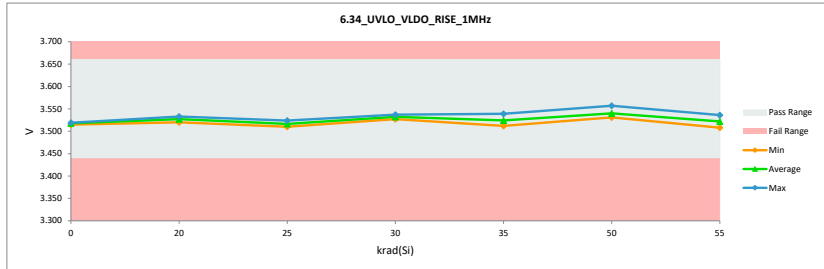
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.528	3.515	-0.013
0	51	3.519	3.519	0.000
0	52	3.513	3.519	0.006
25	1	3.524	3.518	-0.006
25	2	3.513	3.510	-0.003
25	3	3.526	3.520	-0.006
25	4	3.530	3.524	-0.006
25	5	3.515	3.510	-0.005
20	6	3.535	3.524	-0.011
20	7	3.535	3.533	-0.002
20	8	3.529	3.525	-0.004
20	9	3.525	3.533	0.008
20	10	3.521	3.520	-0.001
35	11	3.525	3.522	-0.003
35	12	3.529	3.525	-0.004
35	13	3.541	3.539	-0.002
35	14	3.528	3.523	-0.005
35	15	3.517	3.512	-0.005
30	16	3.535	3.533	-0.002
30	17	3.531	3.527	-0.004
30	18	3.533	3.529	-0.004
30	19	3.538	3.536	-0.002
30	20	3.537	3.537	0.000
55	21	3.542	3.524	-0.018
55	22	3.526	3.514	-0.012
55	23	3.532	3.522	-0.010
55	24	3.518	3.509	-0.009
55	25	3.530	3.524	-0.006
55	26	3.547	3.536	-0.011
55	27	3.534	3.523	-0.011
55	28	3.528	3.527	-0.001
55	29	3.527	3.514	-0.013
55	30	3.532	3.521	-0.011
55	31	3.539	3.527	-0.012
55	32	3.541	3.534	-0.007
55	33	3.551	3.533	-0.018
55	34	3.525	3.515	-0.010
55	35	3.533	3.520	-0.013
55	36	3.516	3.508	-0.008
55	37	3.530	3.529	-0.001
55	38	3.539	3.533	-0.006
55	39	3.526	3.519	-0.007
55	40	3.527	3.516	-0.011
55	41	3.527	3.514	-0.013
55	42	3.522	3.520	-0.002
50	43	3.542	3.538	-0.004
50	44	3.535	3.531	-0.004
50	45	3.529	3.535	0.006
50	46	3.542	3.539	-0.003
50	47	3.560	3.557	-0.003
	Max	3.560	3.557	0.008
	Average	3.531	3.525	-0.006
	Min	3.513	3.508	-0.018
	Std Dev	0.010	0.010	0.006



6.34 UVLO_VLDO_RISE_1MHz

Test Site	
Tester	
Test Number	
Max Limit	3.66
Min Limit	3.44

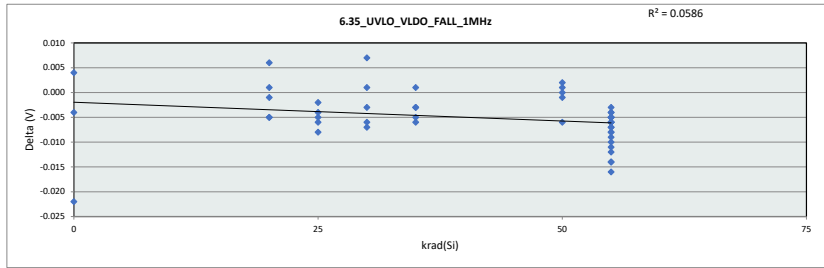
krad(Si)	0	20	25	30	35	50	55
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.515	3.520	3.510	3.527	3.512	3.531	3.508
Average	3.518	3.527	3.516	3.532	3.524	3.540	3.522
Max	3.519	3.533	3.524	3.537	3.539	3.557	3.536
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660



**HDR TID Report
TPS7H5005-SEP**

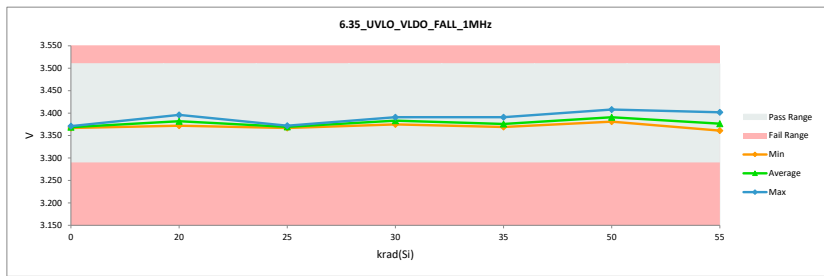
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.35_UVLO_VLDO_FALL_1MHz	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	3.51 3.51
Min Limit	3.29 3.29



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.390	3.368	-0.022
0	51	3.367	3.371	0.004
0	52	3.371	3.367	-0.004
25	1	3.373	3.371	-0.002
25	2	3.371	3.367	-0.004
25	3	3.375	3.369	-0.006
25	4	3.377	3.372	-0.005
25	5	3.376	3.368	-0.008
20	6	3.383	3.378	-0.005
20	7	3.395	3.396	0.001
20	8	3.380	3.379	-0.001
20	9	3.379	3.385	0.006
20	10	3.377	3.372	-0.005
35	11	3.373	3.370	-0.003
35	12	3.384	3.378	-0.006
35	13	3.390	3.391	0.001
35	14	3.376	3.371	-0.005
35	15	3.372	3.369	-0.003
30	16	3.388	3.389	0.001
30	17	3.382	3.375	-0.007
30	18	3.381	3.378	-0.003
30	19	3.389	3.383	-0.006
30	20	3.384	3.391	0.007
55	21	3.393	3.381	-0.012
55	22	3.384	3.378	-0.006
55	23	3.384	3.376	-0.008
55	24	3.368	3.361	-0.007
55	25	3.378	3.373	-0.005
55	26	3.406	3.402	-0.004
55	27	3.382	3.373	-0.009
55	28	3.388	3.377	-0.011
55	29	3.379	3.376	-0.003
55	30	3.384	3.380	-0.004
55	31	3.389	3.384	-0.005
55	32	3.392	3.382	-0.010
55	33	3.400	3.386	-0.014
55	34	3.378	3.364	-0.014
55	35	3.382	3.376	-0.006
55	36	3.377	3.361	-0.016
55	37	3.389	3.381	-0.008
55	38	3.394	3.389	-0.005
55	39	3.378	3.372	-0.006
55	40	3.381	3.375	-0.006
55	41	3.376	3.369	-0.007
55	42	3.375	3.370	-0.005
50	43	3.392	3.394	0.002
50	44	3.387	3.381	-0.006
50	45	3.381	3.382	0.001
50	46	3.390	3.389	-0.001
50	47	3.408	3.408	0.000
	Max	3.408	3.408	0.007
	Average	3.383	3.378	-0.005
	Min	3.367	3.361	-0.022
	Std Dev	0.009	0.010	0.005

6.35_UVLO_VLDO_FALL_1MHz		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit		3.51	V					
Min Limit		3.29	V					
LL		3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min		3.367	3.372	3.367	3.375	3.369	3.381	3.361
Average		3.369	3.382	3.369	3.383	3.376	3.391	3.377
Max		3.371	3.396	3.372	3.391	3.391	3.408	3.402
UL		3.510	3.510	3.510	3.510	3.510	3.510	3.510



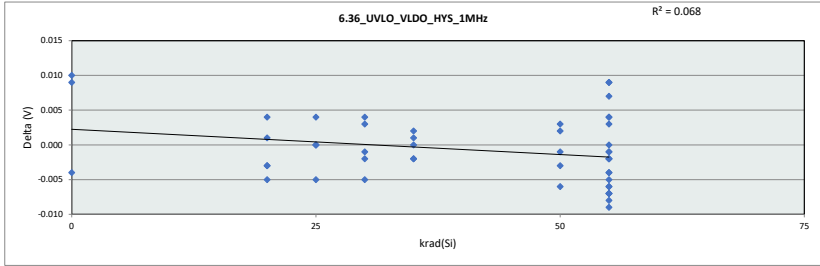
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.36 UVLO_VLDO_HYS_1MHz

Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.16
Min Limit	0.115

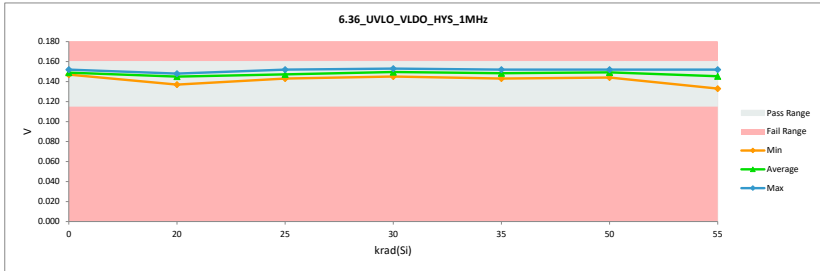
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.138	0.147	0.009
0	51	0.152	0.148	-0.004
0	52	0.142	0.152	0.010
25	1	0.152	0.147	-0.005
25	2	0.143	0.143	0.000
25	3	0.151	0.151	0.000
25	4	0.152	0.152	0.000
25	5	0.139	0.143	0.004
20	6	0.151	0.146	-0.005
20	7	0.140	0.137	-0.003
20	8	0.149	0.146	-0.003
20	9	0.147	0.148	0.001
20	10	0.144	0.148	0.004
35	11	0.152	0.152	0.000
35	12	0.145	0.147	0.002
35	13	0.150	0.148	-0.002
35	14	0.151	0.152	0.001
35	15	0.145	0.143	-0.002
30	16	0.147	0.145	-0.002
30	17	0.149	0.152	0.003
30	18	0.152	0.151	-0.001
30	19	0.149	0.153	0.004
30	20	0.152	0.147	-0.005
55	21	0.149	0.143	-0.006
55	22	0.142	0.136	-0.006
55	23	0.148	0.146	-0.002
55	24	0.150	0.148	-0.002
55	25	0.152	0.152	0.000
55	26	0.141	0.133	-0.008
55	27	0.152	0.150	-0.002
55	28	0.141	0.150	0.009
55	29	0.147	0.138	-0.009
55	30	0.148	0.141	-0.007
55	31	0.150	0.143	-0.007
55	32	0.149	0.152	0.003
55	33	0.151	0.147	-0.004
55	34	0.147	0.151	0.004
55	35	0.151	0.144	-0.007
55	36	0.138	0.147	0.009
55	37	0.141	0.148	0.007
55	38	0.145	0.144	-0.001
55	39	0.148	0.147	-0.001
55	40	0.146	0.142	-0.004
55	41	0.151	0.146	-0.005
55	42	0.146	0.150	0.004
50	43	0.150	0.144	-0.006
50	44	0.148	0.150	0.002
50	45	0.149	0.152	0.003
50	46	0.152	0.151	-0.001
50	47	0.152	0.149	-0.003
	Max	0.152	0.153	0.010
	Average	0.148	0.147	-0.001
	Min	0.138	0.133	-0.009
	Std Dev	0.004	0.005	0.005



6.36 UVLO_VLDO_HYS_1MHz

Test Site	
Tester	
Test Number	
Max Limit	0.16
Min Limit	0.115

krad(Si)	0	20	25	30	35	50	55
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.147	0.137	0.143	0.145	0.143	0.144	0.133
Average	0.149	0.145	0.147	0.150	0.148	0.149	0.145
Max	0.152	0.148	0.152	0.153	0.152	0.152	0.152
UL	0.160	0.160	0.160	0.160	0.160	0.160	0.160

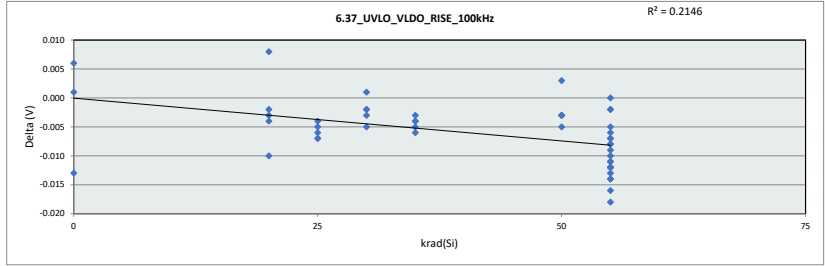


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.37 UVLO_VLDO_RISE_100kHz

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

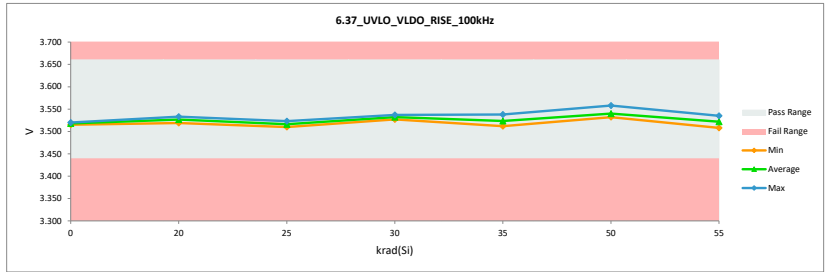


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.528	3.515	-0.013
0	51	3.519	3.520	0.001
0	52	3.513	3.519	0.006
25	1	3.524	3.517	-0.007
25	2	3.514	3.510	-0.004
25	3	3.526	3.520	-0.006
25	4	3.530	3.523	-0.007
25	5	3.516	3.511	-0.005
20	6	3.535	3.525	-0.010
20	7	3.535	3.532	-0.003
20	8	3.528	3.524	-0.004
20	9	3.525	3.533	0.008
20	10	3.521	3.519	-0.002
35	11	3.525	3.521	-0.004
35	12	3.529	3.525	-0.004
35	13	3.541	3.538	-0.003
35	14	3.528	3.522	-0.006
35	15	3.517	3.512	-0.005
30	16	3.536	3.533	-0.003
30	17	3.529	3.527	-0.002
30	18	3.533	3.528	-0.005
30	19	3.538	3.536	-0.002
30	20	3.536	3.537	0.001
55	21	3.542	3.524	-0.018
55	22	3.526	3.515	-0.011
55	23	3.533	3.523	-0.010
55	24	3.517	3.509	-0.008
55	25	3.529	3.523	-0.006
55	26	3.547	3.535	-0.012
55	27	3.535	3.523	-0.012
55	28	3.528	3.526	-0.002
55	29	3.527	3.514	-0.013
55	30	3.532	3.521	-0.011
55	31	3.540	3.528	-0.012
55	32	3.541	3.533	-0.008
55	33	3.551	3.535	-0.016
55	34	3.526	3.514	-0.012
55	35	3.533	3.519	-0.014
55	36	3.515	3.508	-0.007
55	37	3.530	3.528	-0.002
55	38	3.541	3.534	-0.007
55	39	3.525	3.520	-0.005
55	40	3.526	3.517	-0.009
55	41	3.527	3.513	-0.014
55	42	3.521	3.521	0.000
50	43	3.543	3.538	-0.005
50	44	3.535	3.532	-0.003
50	45	3.530	3.533	0.003
50	46	3.542	3.539	-0.003
50	47	3.561	3.558	-0.003
	Max	3.561	3.558	0.008
	Average	3.531	3.525	-0.006
	Min	3.513	3.508	-0.018
	Std Dev	0.010	0.010	0.005

6.37 UVLO_VLDO_RISE_100k

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

krad(Si)	0	20	25	30	35	50	55
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.515	3.519	3.510	3.527	3.512	3.532	3.508
Average	3.518	3.527	3.516	3.532	3.524	3.540	3.522
Max	3.520	3.533	3.523	3.537	3.538	3.558	3.535
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660

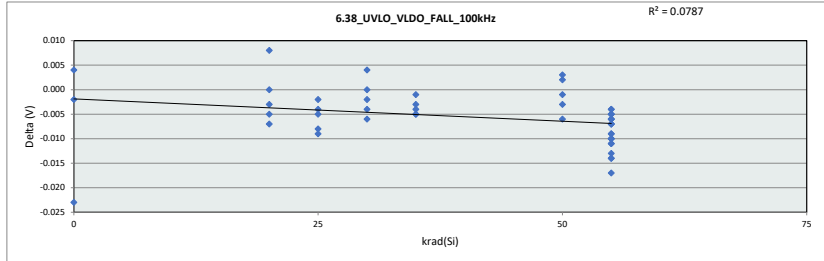


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.38_UVLO_VLDO_FALL_100kHz

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

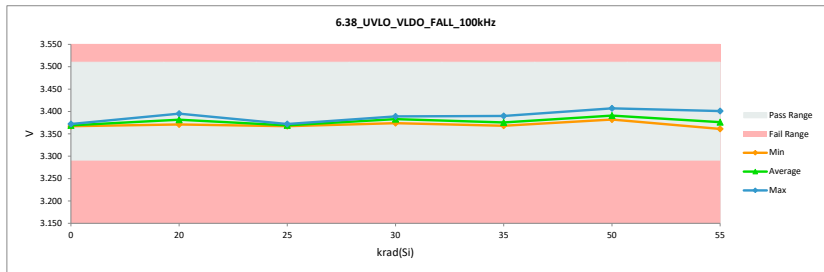


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.390	3.367	-0.023
0	51	3.368	3.372	0.004
0	52	3.370	3.368	-0.002
25	1	3.373	3.371	-0.002
25	2	3.371	3.367	-0.004
25	3	3.375	3.367	-0.008
25	4	3.377	3.372	-0.005
25	5	3.377	3.368	-0.009
20	6	3.384	3.377	-0.007
20	7	3.395	3.395	0.000
20	8	3.382	3.379	-0.003
20	9	3.378	3.386	0.008
20	10	3.376	3.371	-0.005
35	11	3.373	3.370	-0.003
35	12	3.383	3.378	-0.005
35	13	3.391	3.390	-0.001
35	14	3.376	3.372	-0.004
35	15	3.373	3.368	-0.005
30	16	3.389	3.389	0.000
30	17	3.380	3.374	-0.006
30	18	3.381	3.379	-0.002
30	19	3.388	3.384	-0.004
30	20	3.384	3.388	0.004
55	21	3.394	3.380	-0.014
55	22	3.385	3.378	-0.007
55	23	3.385	3.375	-0.010
55	24	3.368	3.361	-0.007
55	25	3.377	3.372	-0.005
55	26	3.405	3.401	-0.004
55	27	3.383	3.373	-0.010
55	28	3.388	3.377	-0.011
55	29	3.379	3.375	-0.004
55	30	3.385	3.380	-0.005
55	31	3.390	3.384	-0.006
55	32	3.393	3.382	-0.011
55	33	3.399	3.386	-0.013
55	34	3.378	3.364	-0.014
55	35	3.382	3.376	-0.006
55	36	3.378	3.361	-0.017
55	37	3.389	3.380	-0.009
55	38	3.394	3.388	-0.006
55	39	3.379	3.372	-0.007
55	40	3.384	3.374	-0.010
55	41	3.377	3.368	-0.009
55	42	3.375	3.370	-0.005
50	43	3.392	3.394	0.002
50	44	3.388	3.382	-0.006
50	45	3.380	3.383	0.003
50	46	3.391	3.388	-0.003
50	47	3.408	3.407	-0.001
	Max	3.408	3.407	0.008
	Average	3.383	3.378	-0.006
	Min	3.368	3.361	-0.023
	Std Dev	0.009	0.010	0.005

6.38_UVLO_VLDO_FALL_100k

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

krad(Si)	0	20	25	30	35	50	55
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.367	3.371	3.367	3.374	3.368	3.382	3.361
Average	3.369	3.382	3.369	3.383	3.376	3.391	3.376
Max	3.372	3.395	3.372	3.389	3.390	3.407	3.401
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510



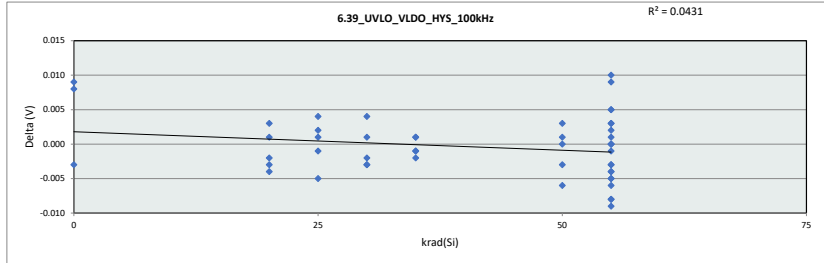
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.39 UVLO_VLDO_HYS_100kHz

Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.16
Min Limit	0.115

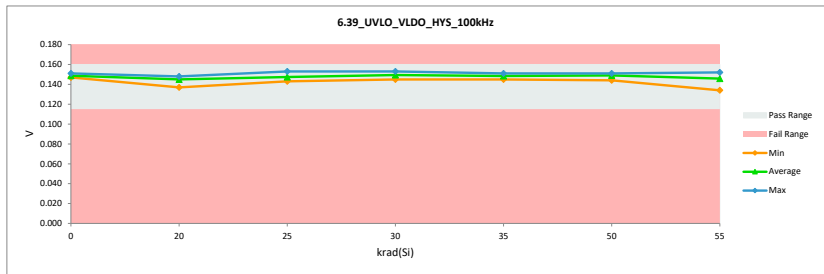
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.138	0.147	0.009
0	51	0.151	0.148	-0.003
0	52	0.143	0.151	0.008
25	1	0.151	0.146	-0.005
25	2	0.143	0.144	0.001
25	3	0.151	0.153	0.002
25	4	0.152	0.151	-0.001
25	5	0.139	0.143	0.004
20	6	0.151	0.147	-0.004
20	7	0.140	0.137	-0.003
20	8	0.147	0.145	-0.002
20	9	0.147	0.148	0.001
20	10	0.145	0.148	0.003
35	11	0.152	0.151	-0.001
35	12	0.146	0.147	0.001
35	13	0.150	0.148	-0.002
35	14	0.152	0.151	-0.001
35	15	0.144	0.145	0.001
30	16	0.147	0.145	-0.002
30	17	0.149	0.153	0.004
30	18	0.152	0.149	-0.003
30	19	0.150	0.151	0.001
30	20	0.152	0.149	-0.003
55	21	0.148	0.144	-0.004
55	22	0.140	0.137	-0.003
55	23	0.148	0.148	0.000
55	24	0.149	0.149	0.000
55	25	0.152	0.152	0.000
55	26	0.142	0.134	-0.008
55	27	0.153	0.150	-0.003
55	28	0.140	0.149	0.009
55	29	0.148	0.139	-0.009
55	30	0.147	0.141	-0.006
55	31	0.149	0.144	-0.005
55	32	0.148	0.151	0.003
55	33	0.152	0.148	-0.004
55	34	0.148	0.151	0.003
55	35	0.151	0.143	-0.008
55	36	0.137	0.147	0.010
55	37	0.142	0.147	0.005
55	38	0.147	0.146	-0.001
55	39	0.146	0.148	0.002
55	40	0.142	0.143	0.001
55	41	0.150	0.145	-0.005
55	42	0.146	0.151	0.005
50	43	0.150	0.144	-0.006
50	44	0.147	0.150	0.003
50	45	0.149	0.150	0.001
50	46	0.151	0.151	0.000
50	47	0.153	0.150	-0.003
Max		0.153	0.153	0.010
Average		0.147	0.147	0.000
Min		0.137	0.134	-0.009
Std Dev		0.004	0.004	0.004



6.39 UVLO_VLDO_HYS_100kHz

Test Site	
Tester	
Test Number	
Max Limit	0.16
Min Limit	0.115

krad(Si)	0	20	25	30	35	50	55
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.147	0.137	0.143	0.145	0.145	0.144	0.134
Average	0.149	0.145	0.147	0.149	0.148	0.149	0.146
Max	0.151	0.148	0.153	0.153	0.151	0.151	0.152
UL	0.160	0.160	0.160	0.160	0.160	0.160	0.160

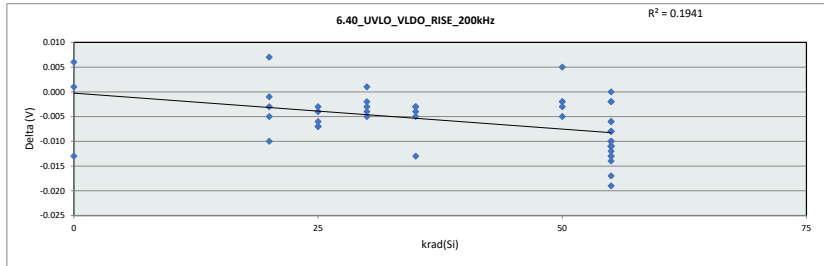


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.40 UVLO_VLDO_RISE_200kHz

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

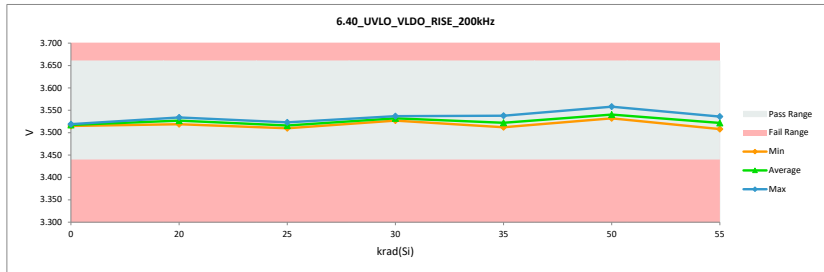


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.528	3.515	-0.013
0	51	3.518	3.519	0.001
0	52	3.512	3.518	0.006
25	1	3.524	3.517	-0.007
25	2	3.513	3.510	-0.003
25	3	3.526	3.519	-0.007
25	4	3.529	3.523	-0.006
25	5	3.515	3.511	-0.004
20	6	3.535	3.525	-0.010
20	7	3.535	3.532	-0.003
20	8	3.529	3.524	-0.005
20	9	3.527	3.534	0.007
20	10	3.520	3.519	-0.001
35	11	3.524	3.521	-0.003
35	12	3.529	3.525	-0.004
35	13	3.541	3.538	-0.003
35	14	3.528	3.515	-0.013
35	15	3.517	3.512	-0.005
30	16	3.536	3.533	-0.003
30	17	3.529	3.527	-0.002
30	18	3.533	3.528	-0.005
30	19	3.539	3.535	-0.004
30	20	3.536	3.537	0.001
55	21	3.542	3.523	-0.019
55	22	3.525	3.514	-0.011
55	23	3.533	3.522	-0.011
55	24	3.518	3.510	-0.008
55	25	3.530	3.524	-0.006
55	26	3.547	3.536	-0.011
55	27	3.535	3.523	-0.012
55	28	3.528	3.526	-0.002
55	29	3.527	3.514	-0.013
55	30	3.532	3.521	-0.011
55	31	3.539	3.529	-0.010
55	32	3.542	3.532	-0.010
55	33	3.551	3.534	-0.017
55	34	3.525	3.515	-0.010
55	35	3.533	3.520	-0.013
55	36	3.516	3.508	-0.008
55	37	3.530	3.528	-0.002
55	38	3.541	3.533	-0.008
55	39	3.525	3.519	-0.006
55	40	3.527	3.517	-0.010
55	41	3.527	3.513	-0.014
55	42	3.521	3.521	0.000
50	43	3.542	3.537	-0.005
50	44	3.535	3.532	-0.003
50	45	3.530	3.535	0.005
50	46	3.542	3.540	-0.002
50	47	3.560	3.558	-0.002
	Max	3.560	3.558	0.007
	Average	3.531	3.524	-0.006
	Min	3.512	3.508	-0.019
	Std Dev	0.010	0.010	0.006

6.40 UVLO_VLDO_RISE_200k

Test Site	
Tester	
Test Number	
Max Limit	3.66
Min Limit	3.44

krad(Si)	0	20	25	30	35	50	55
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.515	3.519	3.510	3.527	3.512	3.532	3.508
Average	3.517	3.527	3.516	3.532	3.522	3.540	3.522
Max	3.519	3.534	3.523	3.537	3.538	3.558	3.536
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660



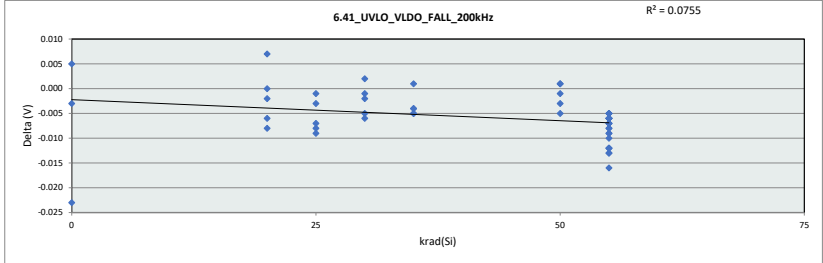
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.41 UVLO_VLDO_FALL_200kHz

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

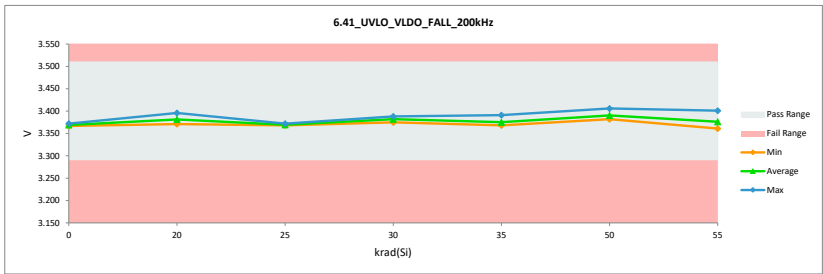
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.391	3.368	-0.023
0	51	3.367	3.372	0.005
0	52	3.370	3.367	-0.003
25	1	3.373	3.372	-0.001
25	2	3.371	3.368	-0.003
25	3	3.375	3.368	-0.007
25	4	3.379	3.371	-0.008
25	5	3.377	3.368	-0.009
20	6	3.384	3.376	-0.008
20	7	3.396	3.396	0.000
20	8	3.381	3.379	-0.002
20	9	3.378	3.385	0.007
20	10	3.377	3.371	-0.006
35	11	3.373	3.369	-0.004
35	12	3.383	3.378	-0.005
35	13	3.390	3.391	0.001
35	14	3.376	3.371	-0.005
35	15	3.372	3.368	-0.004
30	16	3.389	3.388	-0.001
30	17	3.380	3.375	-0.005
30	18	3.380	3.378	-0.002
30	19	3.389	3.383	-0.006
30	20	3.384	3.386	0.002
55	21	3.393	3.381	-0.012
55	22	3.384	3.377	-0.007
55	23	3.385	3.376	-0.009
55	24	3.368	3.361	-0.007
55	25	3.378	3.372	-0.006
55	26	3.406	3.401	-0.005
55	27	3.382	3.373	-0.009
55	28	3.388	3.376	-0.012
55	29	3.379	3.374	-0.005
55	30	3.385	3.379	-0.006
55	31	3.389	3.384	-0.005
55	32	3.392	3.382	-0.010
55	33	3.399	3.386	-0.013
55	34	3.377	3.364	-0.013
55	35	3.383	3.375	-0.008
55	36	3.378	3.362	-0.016
55	37	3.389	3.381	-0.008
55	38	3.394	3.388	-0.006
55	39	3.377	3.371	-0.006
55	40	3.385	3.373	-0.012
55	41	3.376	3.369	-0.007
55	42	3.376	3.370	-0.006
50	43	3.393	3.394	0.001
50	44	3.387	3.382	-0.005
50	45	3.381	3.382	0.001
50	46	3.391	3.388	-0.003
50	47	3.407	3.406	-0.001
Max		3.407	3.406	0.007
Average		3.383	3.377	-0.006
Min		3.367	3.361	-0.023
Std Dev		0.009	0.010	0.005



6.41 UVLO_VLDO_FALL_200k

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

krad(Si)	0	20	25	30	35	50	55
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.367	3.371	3.368	3.375	3.368	3.382	3.361
Average	3.369	3.381	3.369	3.382	3.375	3.390	3.376
Max	3.372	3.396	3.372	3.388	3.391	3.406	3.401
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510



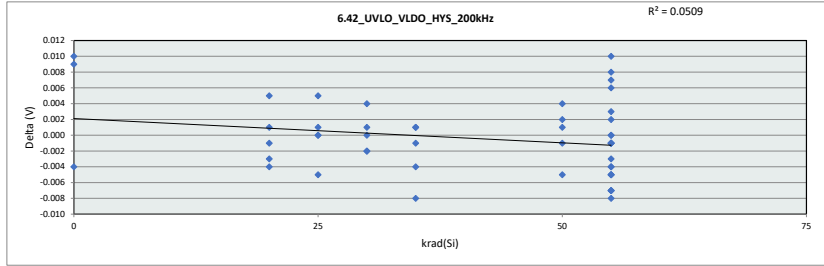
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.42_UVLO_VLDO_HYS_200kHz

Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.16
Min Limit	0.115

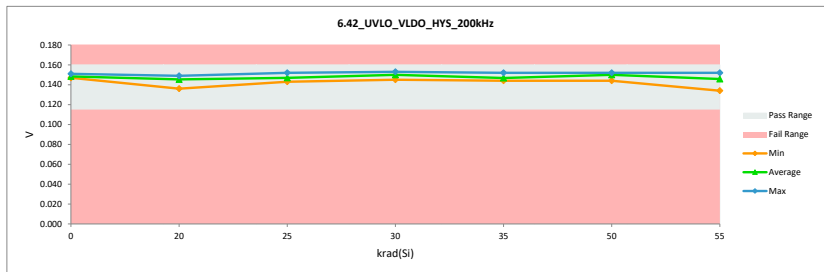
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.137	0.147	0.010
0	51	0.151	0.147	-0.004
0	52	0.142	0.151	0.009
25	1	0.151	0.146	-0.005
25	2	0.143	0.143	0.000
25	3	0.151	0.151	0.000
25	4	0.151	0.152	0.001
25	5	0.138	0.143	0.005
20	6	0.151	0.148	-0.003
20	7	0.140	0.136	-0.004
20	8	0.147	0.146	-0.001
20	9	0.148	0.149	0.001
20	10	0.143	0.148	0.005
35	11	0.151	0.152	0.001
35	12	0.146	0.147	0.001
35	13	0.151	0.147	-0.004
35	14	0.152	0.144	-0.008
35	15	0.145	0.144	-0.001
30	16	0.147	0.145	-0.002
30	17	0.149	0.153	0.004
30	18	0.152	0.150	-0.002
30	19	0.150	0.151	0.001
30	20	0.151	0.151	0.000
55	21	0.149	0.142	-0.007
55	22	0.141	0.137	-0.004
55	23	0.147	0.146	-0.001
55	24	0.150	0.149	-0.001
55	25	0.152	0.152	0.000
55	26	0.141	0.134	-0.007
55	27	0.153	0.150	-0.003
55	28	0.140	0.150	0.010
55	29	0.148	0.140	-0.008
55	30	0.147	0.142	-0.005
55	31	0.150	0.145	-0.005
55	32	0.151	0.151	0.000
55	33	0.152	0.148	-0.004
55	34	0.148	0.151	0.003
55	35	0.150	0.145	-0.005
55	36	0.138	0.146	0.008
55	37	0.141	0.147	0.006
55	38	0.147	0.146	-0.001
55	39	0.148	0.147	-0.001
55	40	0.141	0.143	0.002
55	41	0.151	0.144	-0.007
55	42	0.144	0.151	0.007
50	43	0.149	0.144	-0.005
50	44	0.148	0.150	0.002
50	45	0.148	0.152	0.004
50	46	0.151	0.152	0.001
50	47	0.153	0.152	-0.001
	Max	0.153	0.153	0.010
	Average	0.147	0.147	0.000
	Min	0.137	0.134	-0.008
	Std Dev	0.004	0.004	0.005



6.42_UVLO_VLDO_HYS_200kHz

Test Site	
Tester	
Test Number	
Max Limit	0.16
Min Limit	0.115

krad(Si)	0	20	25	30	35	50	55
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.147	0.136	0.143	0.145	0.144	0.144	0.134
Average	0.148	0.145	0.147	0.150	0.147	0.150	0.146
Max	0.151	0.149	0.152	0.153	0.152	0.152	0.152
UL	0.160	0.160	0.160	0.160	0.160	0.160	0.160

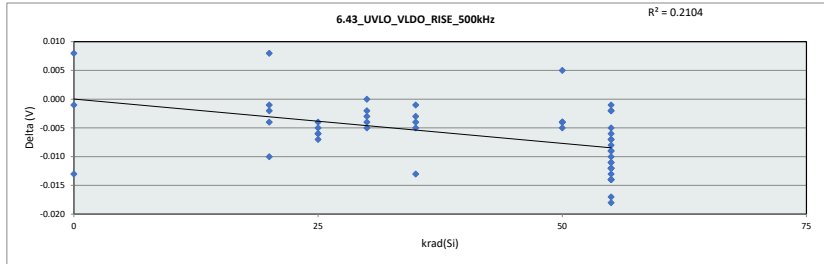


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.43 UVLO_VLDO_RISE_500kHz

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

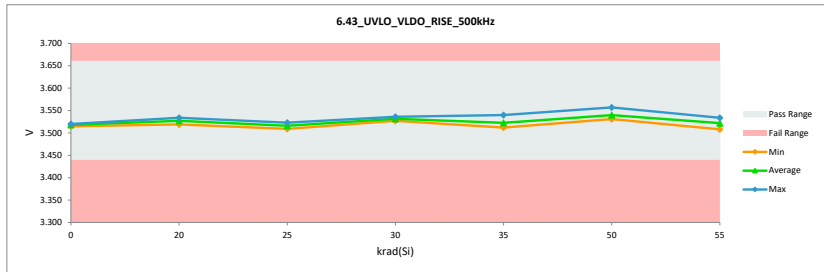


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.528	3.515	-0.013
0	51	3.520	3.519	-0.001
0	52	3.512	3.520	0.008
25	1	3.524	3.517	-0.007
25	2	3.514	3.509	-0.005
25	3	3.526	3.520	-0.006
25	4	3.529	3.523	-0.006
25	5	3.515	3.511	-0.004
20	6	3.535	3.525	-0.010
20	7	3.535	3.533	-0.002
20	8	3.528	3.524	-0.004
20	9	3.526	3.534	0.008
20	10	3.520	3.519	-0.001
35	11	3.524	3.521	-0.003
35	12	3.529	3.525	-0.004
35	13	3.541	3.540	-0.001
35	14	3.528	3.515	-0.013
35	15	3.517	3.512	-0.005
30	16	3.536	3.533	-0.003
30	17	3.529	3.527	-0.002
30	18	3.533	3.528	-0.005
30	19	3.538	3.534	-0.004
30	20	3.536	3.536	0.000
55	21	3.542	3.524	-0.018
55	22	3.526	3.515	-0.011
55	23	3.533	3.522	-0.011
55	24	3.517	3.509	-0.008
55	25	3.529	3.523	-0.006
55	26	3.548	3.534	-0.014
55	27	3.534	3.522	-0.012
55	28	3.528	3.526	-0.002
55	29	3.527	3.514	-0.013
55	30	3.533	3.521	-0.012
55	31	3.540	3.528	-0.012
55	32	3.542	3.533	-0.009
55	33	3.551	3.534	-0.017
55	34	3.525	3.516	-0.009
55	35	3.534	3.520	-0.014
55	36	3.515	3.508	-0.007
55	37	3.530	3.528	-0.002
55	38	3.540	3.533	-0.007
55	39	3.525	3.520	-0.005
55	40	3.527	3.517	-0.010
55	41	3.528	3.514	-0.014
55	42	3.522	3.521	-0.001
50	43	3.542	3.537	-0.005
50	44	3.535	3.531	-0.004
50	45	3.530	3.535	0.005
50	46	3.543	3.539	-0.004
50	47	3.561	3.557	-0.004
	Max	3.561	3.557	0.008
	Average	3.531	3.524	-0.006
	Min	3.512	3.508	-0.018
	Std Dev	0.010	0.010	0.006

6.43 UVLO_VLDO_RISE_500k

Test Site	
Tester	
Test Number	
Max Limit	3.66
Min Limit	3.44

krad(Si)	0	20	25	30	35	50	55
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.515	3.519	3.509	3.527	3.512	3.531	3.508
Average	3.518	3.527	3.516	3.532	3.523	3.540	3.522
Max	3.520	3.534	3.523	3.536	3.540	3.557	3.534
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660



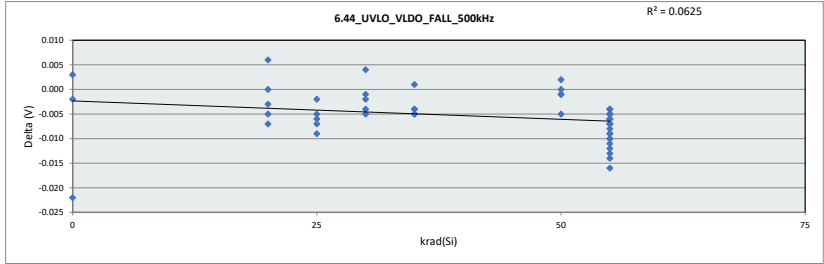
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.44 UVLO_VLDO_FALL_500kHz

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

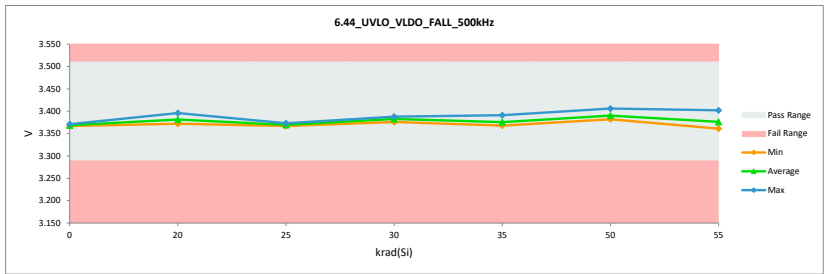
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.389	3.367	-0.022
0	51	3.368	3.371	0.003
0	52	3.370	3.368	-0.002
25	1	3.373	3.371	-0.002
25	2	3.372	3.367	-0.005
25	3	3.375	3.368	-0.007
25	4	3.379	3.373	-0.006
25	5	3.377	3.368	-0.009
20	6	3.383	3.376	-0.007
20	7	3.396	3.396	0.000
20	8	3.381	3.378	-0.003
20	9	3.379	3.385	0.006
20	10	3.377	3.372	-0.005
35	11	3.373	3.369	-0.004
35	12	3.384	3.379	-0.005
35	13	3.390	3.391	0.001
35	14	3.376	3.371	-0.005
35	15	3.372	3.368	-0.004
30	16	3.388	3.387	-0.001
30	17	3.380	3.376	-0.004
30	18	3.381	3.379	-0.002
30	19	3.388	3.383	-0.005
30	20	3.384	3.388	0.004
55	21	3.393	3.381	-0.012
55	22	3.384	3.377	-0.007
55	23	3.385	3.375	-0.010
55	24	3.368	3.361	-0.007
55	25	3.377	3.371	-0.006
55	26	3.406	3.402	-0.004
55	27	3.382	3.373	-0.009
55	28	3.388	3.377	-0.011
55	29	3.379	3.375	-0.004
55	30	3.385	3.379	-0.006
55	31	3.389	3.384	-0.005
55	32	3.392	3.382	-0.010
55	33	3.399	3.386	-0.013
55	34	3.378	3.364	-0.014
55	35	3.383	3.375	-0.008
55	36	3.377	3.361	-0.016
55	37	3.388	3.381	-0.007
55	38	3.394	3.389	-0.005
55	39	3.378	3.372	-0.006
55	40	3.380	3.375	-0.005
55	41	3.378	3.369	-0.009
55	42	3.375	3.371	-0.004
50	43	3.392	3.392	0.000
50	44	3.387	3.382	-0.005
50	45	3.380	3.382	0.002
50	46	3.390	3.389	-0.001
50	47	3.407	3.406	-0.001
	Max	3.407	3.406	0.006
	Average	3.383	3.378	-0.005
	Min	3.368	3.361	-0.022
	Std Dev	0.009	0.010	0.005



6.44 UVLO_VLDO_FALL_500kHz

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

krad(Si)	0	20	25	30	35	50	55
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.367	3.372	3.367	3.376	3.368	3.382	3.361
Average	3.369	3.381	3.369	3.383	3.376	3.390	3.376
Max	3.371	3.396	3.373	3.388	3.391	3.406	3.402
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510

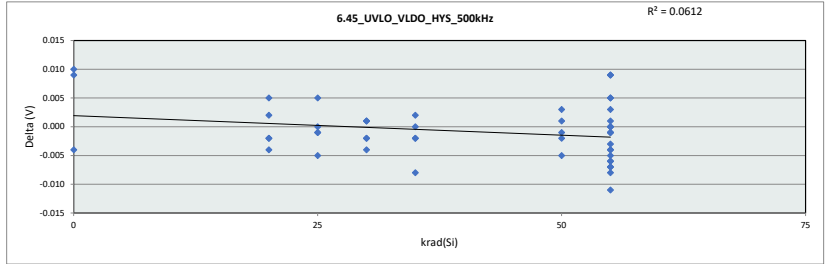


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

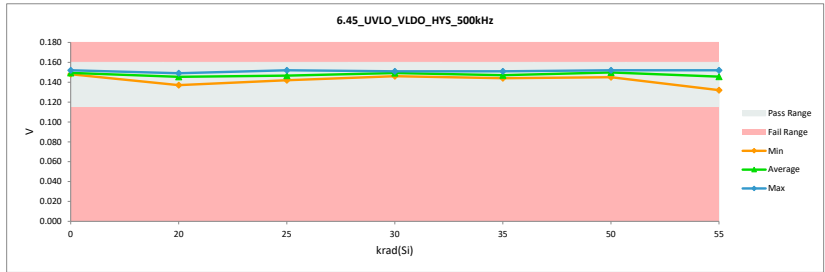
6.45_UVLO_VLDO_HYS_500kHz

Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.16
Min Limit	0.115



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.138	0.148	0.010
0	51	0.152	0.148	-0.004
0	52	0.143	0.152	0.009
25	1	0.151	0.146	-0.005
25	2	0.143	0.142	-0.001
25	3	0.152	0.152	0.000
25	4	0.151	0.150	-0.001
25	5	0.138	0.143	0.005
20	6	0.152	0.148	-0.004
20	7	0.139	0.137	-0.002
20	8	0.147	0.145	-0.002
20	9	0.147	0.149	0.002
20	10	0.143	0.148	0.005
35	11	0.151	0.151	0.000
35	12	0.145	0.147	0.002
35	13	0.151	0.149	-0.002
35	14	0.152	0.144	-0.008
35	15	0.146	0.144	-0.002
30	16	0.148	0.146	-0.002
30	17	0.150	0.151	0.001
30	18	0.152	0.150	-0.002
30	19	0.150	0.151	0.001
30	20	0.152	0.148	-0.004
55	21	0.149	0.143	-0.006
55	22	0.141	0.138	-0.003
55	23	0.147	0.147	0.000
55	24	0.149	0.148	-0.001
55	25	0.152	0.152	0.000
55	26	0.143	0.132	-0.011
55	27	0.151	0.150	-0.001
55	28	0.140	0.149	0.009
55	29	0.147	0.139	-0.008
55	30	0.148	0.141	-0.007
55	31	0.151	0.144	-0.007
55	32	0.150	0.151	0.001
55	33	0.152	0.148	-0.004
55	34	0.147	0.152	0.005
55	35	0.151	0.145	-0.006
55	36	0.138	0.147	0.009
55	37	0.142	0.147	0.005
55	38	0.146	0.145	-0.001
55	39	0.147	0.147	0.000
55	40	0.146	0.142	-0.004
55	41	0.150	0.145	-0.005
55	42	0.147	0.150	0.003
50	43	0.150	0.145	-0.005
50	44	0.148	0.149	0.001
50	45	0.149	0.152	0.003
50	46	0.153	0.151	-0.002
50	47	0.153	0.152	-0.001
	Max	0.153	0.152	0.010
	Average	0.148	0.147	-0.001
	Min	0.138	0.132	-0.011
	Std Dev	0.004	0.004	0.005

6.45_UVLO_VLDO_HYS_500kHz							
Test Site							
Tester							
Test Number							
Max Limit	0.16	V					
Min Limit	0.115	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.148	0.137	0.142	0.146	0.144	0.145	0.132
Average	0.149	0.145	0.147	0.149	0.147	0.150	0.146
Max	0.152	0.149	0.152	0.151	0.151	0.152	0.152
UL	0.160	0.160	0.160	0.160	0.160	0.160	0.160

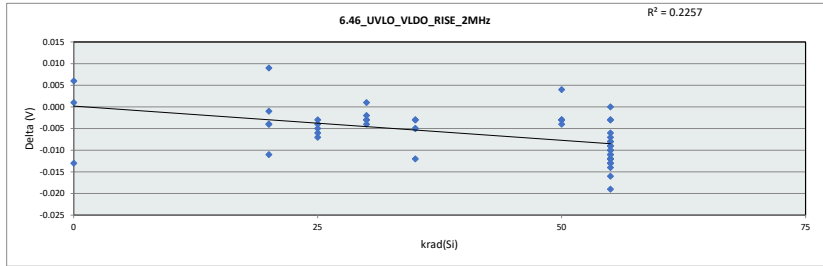


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.46 UVLO_VLDO_RISE_2MHz

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

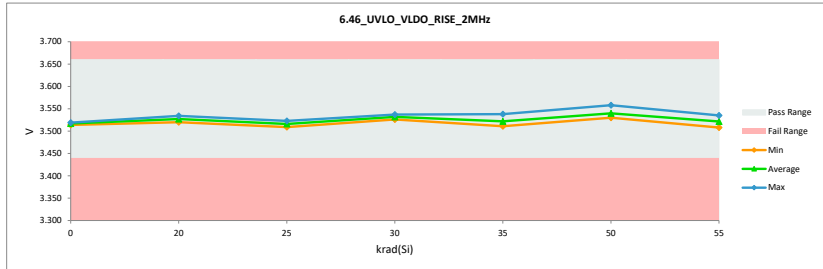


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.527	3.514	-0.013
0	51	3.518	3.519	0.001
0	52	3.512	3.518	0.006
25	1	3.523	3.517	-0.006
25	2	3.513	3.509	-0.004
25	3	3.525	3.520	-0.005
25	4	3.530	3.523	-0.007
25	5	3.514	3.511	-0.003
20	6	3.535	3.524	-0.011
20	7	3.536	3.532	-0.004
20	8	3.529	3.525	-0.004
20	9	3.525	3.534	0.009
20	10	3.521	3.520	-0.001
35	11	3.524	3.521	-0.003
35	12	3.529	3.524	-0.005
35	13	3.541	3.538	-0.003
35	14	3.528	3.516	-0.012
35	15	3.516	3.511	-0.005
30	16	3.536	3.533	-0.003
30	17	3.529	3.526	-0.003
30	18	3.532	3.528	-0.004
30	19	3.538	3.536	-0.002
30	20	3.536	3.537	0.001
55	21	3.542	3.523	-0.019
55	22	3.525	3.514	-0.011
55	23	3.533	3.522	-0.011
55	24	3.518	3.509	-0.009
55	25	3.529	3.523	-0.006
55	26	3.547	3.535	-0.012
55	27	3.534	3.522	-0.012
55	28	3.529	3.526	-0.003
55	29	3.527	3.513	-0.014
55	30	3.533	3.521	-0.012
55	31	3.540	3.528	-0.012
55	32	3.541	3.533	-0.008
55	33	3.551	3.535	-0.016
55	34	3.525	3.515	-0.010
55	35	3.533	3.520	-0.013
55	36	3.516	3.508	-0.008
55	37	3.530	3.527	-0.003
55	38	3.541	3.532	-0.009
55	39	3.526	3.519	-0.007
55	40	3.525	3.515	-0.010
55	41	3.527	3.514	-0.013
55	42	3.521	3.521	0.000
50	43	3.541	3.538	-0.003
50	44	3.534	3.530	-0.004
50	45	3.530	3.534	0.004
50	46	3.542	3.539	-0.003
50	47	3.561	3.558	-0.003
	Max	3.561	3.558	0.009
	Average	3.530	3.524	-0.006
	Min	3.512	3.508	-0.019
	Std Dev	0.010	0.010	0.006

6.46 UVLO_VLDO_RISE_2MHz

Test Site	
Tester	
Test Number	
Max Limit	3.66
Min Limit	3.44

krad(Si)	0	20	25	30	35	50	55
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.514	3.520	3.509	3.526	3.511	3.530	3.508
Average	3.517	3.527	3.516	3.532	3.522	3.540	3.522
Max	3.519	3.534	3.523	3.537	3.538	3.558	3.535
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660



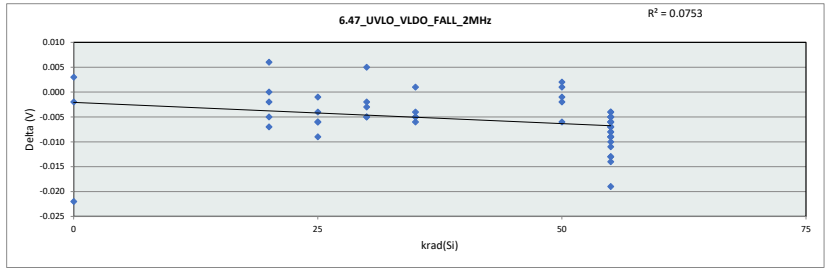
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.47 UVLO_VLDO_FALL_2MHz

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

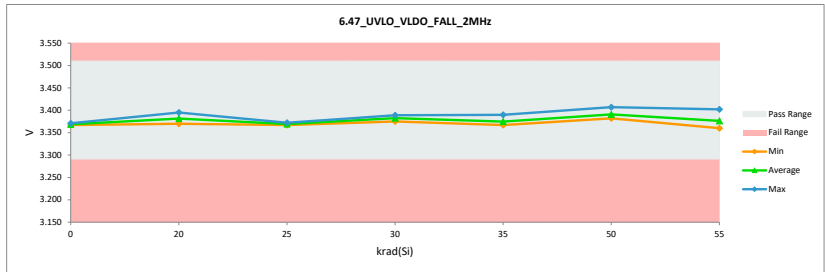
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	3.389	3.367	-0.022
0	51	3.368	3.371	0.003
0	52	3.370	3.368	-0.002
25	1	3.373	3.372	-0.001
25	2	3.371	3.367	-0.004
25	3	3.374	3.368	-0.006
25	4	3.378	3.372	-0.006
25	5	3.377	3.368	-0.009
20	6	3.383	3.378	-0.005
20	7	3.395	3.395	0.000
20	8	3.381	3.379	-0.002
20	9	3.379	3.385	0.006
20	10	3.377	3.370	-0.007
35	11	3.373	3.369	-0.004
35	12	3.383	3.377	-0.006
35	13	3.389	3.390	0.001
35	14	3.376	3.371	-0.005
35	15	3.372	3.367	-0.005
30	16	3.389	3.387	-0.002
30	17	3.380	3.375	-0.005
30	18	3.381	3.378	-0.003
30	19	3.388	3.383	-0.005
30	20	3.384	3.389	0.005
55	21	3.394	3.380	-0.014
55	22	3.384	3.377	-0.007
55	23	3.385	3.376	-0.009
55	24	3.368	3.360	-0.008
55	25	3.377	3.372	-0.005
55	26	3.407	3.402	-0.005
55	27	3.382	3.373	-0.009
55	28	3.388	3.377	-0.011
55	29	3.380	3.376	-0.004
55	30	3.386	3.379	-0.007
55	31	3.389	3.384	-0.005
55	32	3.392	3.382	-0.010
55	33	3.399	3.386	-0.013
55	34	3.377	3.364	-0.013
55	35	3.382	3.376	-0.006
55	36	3.379	3.360	-0.019
55	37	3.389	3.381	-0.008
55	38	3.395	3.389	-0.006
55	39	3.378	3.372	-0.006
55	40	3.381	3.374	-0.007
55	41	3.378	3.369	-0.009
55	42	3.375	3.371	-0.004
50	43	3.392	3.393	0.001
50	44	3.388	3.382	-0.006
50	45	3.381	3.383	0.002
50	46	3.391	3.389	-0.002
50	47	3.408	3.407	-0.001
	Max	3.408	3.407	0.006
	Average	3.383	3.378	-0.006
	Min	3.368	3.360	-0.022
	Std Dev	0.009	0.010	0.005



6.47 UVLO_VLDO_FALL_2MHz

Test Site	
Tester	
Test Number	
Max Limit	3.51
Min Limit	3.29

krad(Si)	0	20	25	30	35	50	55
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.367	3.370	3.367	3.375	3.367	3.382	3.360
Average	3.369	3.381	3.369	3.382	3.375	3.391	3.376
Max	3.371	3.395	3.372	3.389	3.390	3.407	3.402
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510



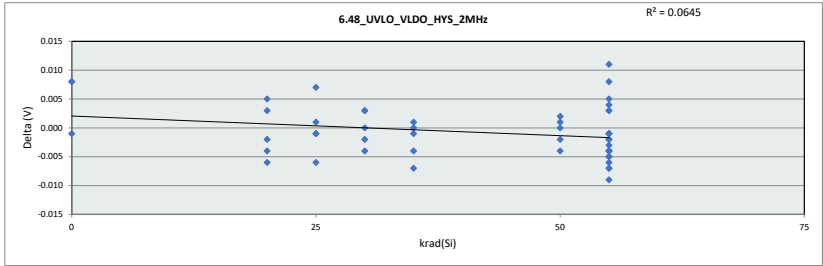
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

6.48_UVLO_VLDO_HYS_2MHz

Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.16
Min Limit	0.115

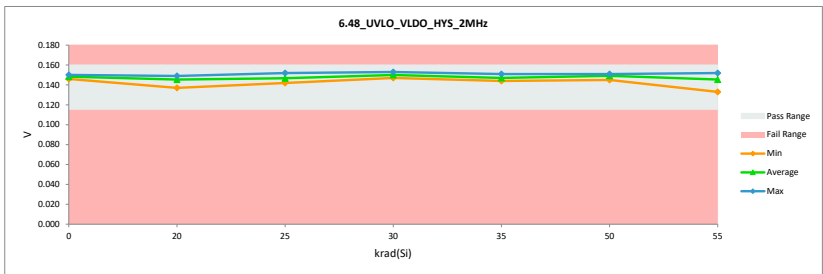
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.138	0.146	0.008
0	51	0.150	0.149	-0.001
0	52	0.142	0.150	0.008
25	1	0.151	0.145	-0.006
25	2	0.143	0.142	-0.001
25	3	0.151	0.152	0.001
25	4	0.152	0.151	-0.001
25	5	0.137	0.144	0.007
20	6	0.152	0.146	-0.006
20	7	0.141	0.137	-0.004
20	8	0.148	0.146	-0.002
20	9	0.146	0.149	0.003
20	10	0.144	0.149	0.005
35	11	0.152	0.151	-0.001
35	12	0.146	0.147	0.001
35	13	0.152	0.148	-0.004
35	14	0.152	0.145	-0.007
35	15	0.144	0.144	0.000
30	16	0.147	0.147	0.000
30	17	0.149	0.152	0.003
30	18	0.152	0.150	-0.002
30	19	0.150	0.153	0.003
30	20	0.152	0.148	-0.004
55	21	0.149	0.144	-0.005
55	22	0.141	0.137	-0.004
55	23	0.148	0.146	-0.002
55	24	0.150	0.149	-0.001
55	25	0.152	0.151	-0.001
55	26	0.140	0.133	-0.007
55	27	0.152	0.148	-0.004
55	28	0.141	0.149	0.008
55	29	0.147	0.138	-0.009
55	30	0.147	0.142	-0.005
55	31	0.151	0.145	-0.006
55	32	0.149	0.152	0.003
55	33	0.153	0.149	-0.004
55	34	0.148	0.151	0.003
55	35	0.151	0.144	-0.007
55	36	0.137	0.148	0.011
55	37	0.141	0.146	0.005
55	38	0.146	0.144	-0.002
55	39	0.148	0.147	-0.001
55	40	0.144	0.141	-0.003
55	41	0.149	0.145	-0.004
55	42	0.146	0.150	0.004
50	43	0.149	0.145	-0.004
50	44	0.147	0.148	0.001
50	45	0.149	0.151	0.002
50	46	0.151	0.151	0.000
50	47	0.153	0.151	-0.002
Max		0.153	0.153	0.011
Average		0.147	0.147	-0.001
Min		0.137	0.133	-0.009
Std Dev		0.004	0.004	0.005



6.48_UVLO_VLDO_HYS_2MHz

Test Site	
Tester	
Test Number	
Max Limit	0.16 V
Min Limit	0.115 V

krad(Si)	0	20	25	30	35	50	55
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.146	0.137	0.142	0.147	0.144	0.145	0.133
Average	0.148	0.145	0.147	0.150	0.147	0.149	0.145
Max	0.150	0.149	0.152	0.153	0.151	0.151	0.152
UL	0.160	0.160	0.160	0.160	0.160	0.160	0.160

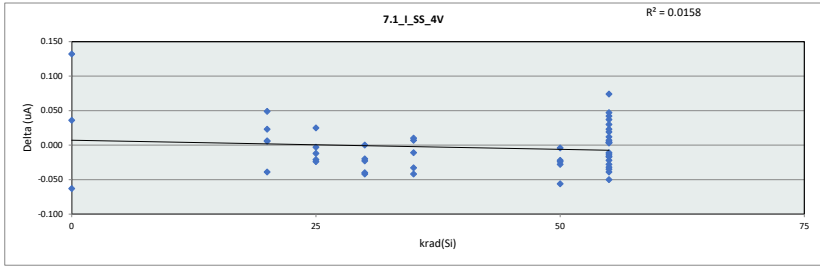


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

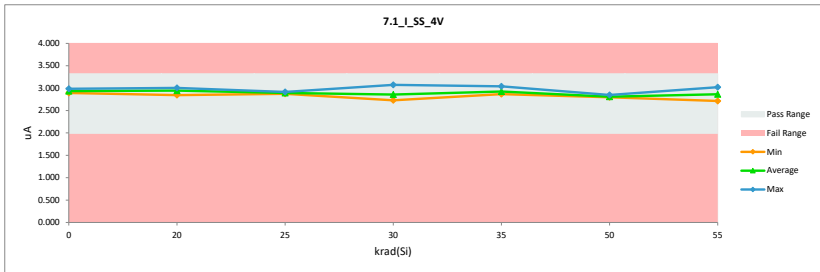
7.1_I_SS_4V	
Test Site	
Tester	
Test Number	
Unit	uA
Max Limit	3.32
Min Limit	1.98

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	2.854	2.986	0.132
0	51	2.893	2.929	0.036
0	52	2.956	2.893	-0.063
25	1	2.888	2.876	-0.012
25	2	2.902	2.899	-0.003
25	3	2.917	2.893	-0.024
25	4	2.849	2.874	0.025
25	5	2.937	2.916	-0.021
20	6	2.931	2.980	0.049
20	7	2.983	3.006	0.023
20	8	2.968	2.974	0.006
20	9	2.963	2.924	-0.039
20	10	2.839	2.845	0.006
35	11	2.932	2.890	-0.042
35	12	2.944	2.911	-0.033
35	13	2.906	2.913	0.007
35	14	3.031	3.041	0.010
35	15	2.879	2.868	-0.011
30	16	3.097	3.074	-0.023
30	17	2.810	2.810	0.000
30	18	2.889	2.847	-0.042
30	19	2.869	2.829	-0.040
30	20	2.750	2.730	-0.020
55	21	2.980	2.945	-0.035
55	22	2.874	2.858	-0.016
55	23	2.789	2.819	0.030
55	24	2.851	2.812	-0.039
55	25	2.949	3.023	0.074
55	26	2.861	2.868	0.007
55	27	2.903	2.871	-0.032
55	28	2.857	2.899	0.042
55	29	2.731	2.714	-0.017
55	30	2.778	2.728	-0.050
55	31	2.799	2.803	0.004
55	32	2.982	2.960	-0.022
55	33	2.892	2.929	0.037
55	34	2.882	2.929	0.047
55	35	2.795	2.767	-0.028
55	36	2.841	2.853	0.012
55	37	2.796	2.785	-0.011
55	38	2.767	2.790	0.023
55	39	2.984	2.971	-0.013
55	40	2.862	2.865	0.003
55	41	2.937	2.941	0.004
55	42	2.890	2.909	0.019
50	43	2.810	2.806	-0.004
50	44	2.825	2.797	-0.028
50	45	2.856	2.800	-0.056
50	46	2.821	2.797	-0.024
50	47	2.870	2.848	-0.022
	Max	3.097	3.074	0.132
	Average	2.883	2.880	-0.003
	Min	2.731	2.714	-0.063
	Std Dev	0.074	0.081	0.036



7.1_I_SS_4V	
Test Site	
Tester	
Test Number	
Max Limit	3.32 uA
Min Limit	1.98 uA

krad(Si)	0	20	25	30	35	50	55
LL	1.980	1.980	1.980	1.980	1.980	1.980	1.980
Min	2.893	2.845	2.874	2.730	2.868	2.797	2.714
Average	2.936	2.946	2.892	2.858	2.925	2.810	2.865
Max	2.986	3.006	2.916	3.074	3.041	2.848	3.023
UL	3.320	3.320	3.320	3.320	3.320	3.320	3.320

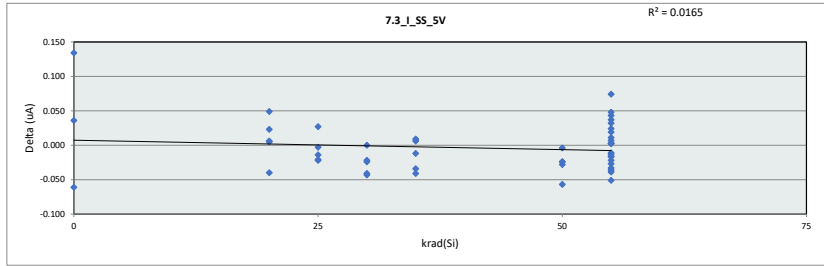


**HDR TID Report
TPS7H5005-SEP**

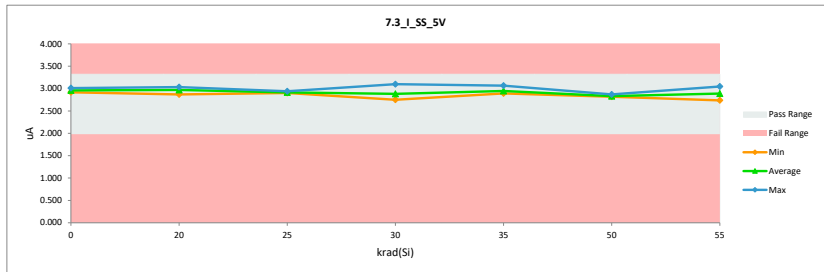
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

7.3_I_SS_5V	
Test Site	
Tester	
Test Number	
Unit	uA
Max Limit	3.32
Min Limit	1.98

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	2.877	3.011	0.134
0	51	2.917	2.953	0.036
0	52	2.978	2.917	-0.061
25	1	2.914	2.900	-0.014
25	2	2.925	2.922	-0.003
25	3	2.939	2.917	-0.022
25	4	2.873	2.900	0.027
25	5	2.960	2.939	-0.021
20	6	2.954	3.003	0.049
20	7	3.009	3.032	0.023
20	8	2.994	2.999	0.005
20	9	2.987	2.947	-0.040
20	10	2.862	2.868	0.006
35	11	2.955	2.914	-0.041
35	12	2.969	2.935	-0.034
35	13	2.930	2.936	0.006
35	14	3.056	3.065	0.009
35	15	2.903	2.891	-0.012
30	16	3.123	3.099	-0.024
30	17	2.833	2.833	0.000
30	18	2.912	2.869	-0.043
30	19	2.893	2.852	-0.041
30	20	2.772	2.750	-0.022
55	21	3.003	2.967	-0.036
55	22	2.897	2.881	-0.016
55	23	2.811	2.843	0.032
55	24	2.876	2.837	-0.039
55	25	2.974	3.048	0.074
55	26	2.884	2.891	0.007
55	27	2.928	2.895	-0.033
55	28	2.881	2.924	0.043
55	29	2.753	2.736	-0.017
55	30	2.802	2.751	-0.051
55	31	2.822	2.824	0.002
55	32	3.007	2.985	-0.022
55	33	2.915	2.952	0.037
55	34	2.905	2.953	0.048
55	35	2.817	2.790	-0.027
55	36	2.865	2.876	0.011
55	37	2.819	2.808	-0.011
55	38	2.789	2.813	0.024
55	39	3.008	2.995	-0.013
55	40	2.885	2.888	0.003
55	41	2.962	2.965	0.003
55	42	2.913	2.932	0.019
50	43	2.833	2.829	-0.004
50	44	2.848	2.820	-0.028
50	45	2.878	2.821	-0.057
50	46	2.843	2.819	-0.024
50	47	2.894	2.870	-0.024
Max		3.123	3.099	0.134
Average		2.907	2.903	-0.004
Min		2.753	2.736	-0.017
Std Dev		0.075	0.082	0.036



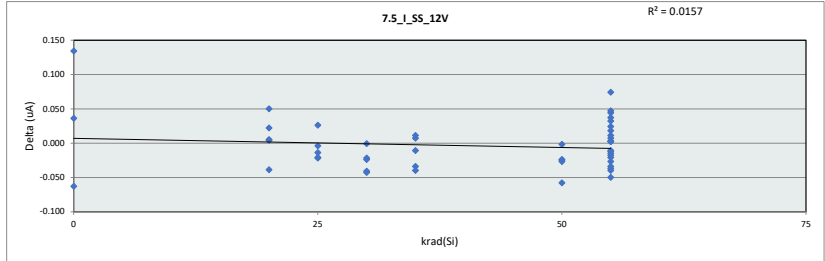
7.3_I_SS_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	3.32	uA						
Min Limit	1.98	uA						
LL	1.980	1.980	1.980	1.980	1.980	1.980	1.980	1.980
Min	2.917	2.868	2.900	2.750	2.891	2.819	2.736	2.736
Average	2.960	2.970	2.916	2.881	2.948	2.832	2.889	
Max	3.011	3.032	2.939	3.099	3.065	2.870	3.048	
UL	3.320	3.320	3.320	3.320	3.320	3.320	3.320	3.320



**HDR TID Report
TPS7H5005-SEP**

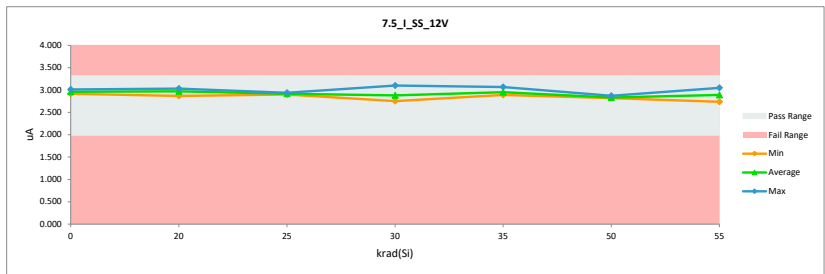
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

7.5_I_SS_12V	
Test Site	
Tester	
Test Number	
Unit	uA
Max Limit	3.32
Min Limit	1.98



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	2.879	3.013	0.134
0	51	2.917	2.953	0.036
0	52	2.980	2.917	-0.063
25	1	2.914	2.900	-0.014
25	2	2.927	2.923	-0.004
25	3	2.941	2.919	-0.022
25	4	2.876	2.902	0.026
25	5	2.961	2.940	-0.021
20	6	2.956	3.006	0.050
20	7	3.011	3.033	0.022
20	8	2.996	3.001	0.005
20	9	2.988	2.949	-0.039
20	10	2.865	2.869	0.004
35	11	2.956	2.916	-0.040
35	12	2.971	2.937	-0.034
35	13	2.932	2.939	0.007
35	14	3.057	3.068	0.011
35	15	2.903	2.892	-0.011
30	16	3.125	3.101	-0.024
30	17	2.834	2.833	-0.001
30	18	2.914	2.871	-0.043
30	19	2.895	2.854	-0.041
30	20	2.774	2.752	-0.022
55	21	3.004	2.967	-0.037
55	22	2.897	2.882	-0.015
55	23	2.813	2.845	0.032
55	24	2.877	2.837	-0.040
55	25	2.975	3.049	0.074
55	26	2.885	2.892	0.007
55	27	2.930	2.896	-0.034
55	28	2.882	2.926	0.044
55	29	2.755	2.737	-0.018
55	30	2.803	2.753	-0.050
55	31	2.823	2.825	0.002
55	32	3.007	2.986	-0.021
55	33	2.917	2.954	0.037
55	34	2.907	2.954	0.047
55	35	2.819	2.792	-0.027
55	36	2.867	2.878	0.011
55	37	2.820	2.809	-0.011
55	38	2.791	2.815	0.024
55	39	3.010	2.998	-0.012
55	40	2.887	2.890	0.003
55	41	2.964	2.966	0.002
55	42	2.915	2.933	0.018
50	43	2.834	2.832	-0.002
50	44	2.849	2.822	-0.027
50	45	2.880	2.822	-0.058
50	46	2.845	2.820	-0.025
50	47	2.896	2.872	-0.024
Max		3.125	3.101	0.134
Average		2.908	2.905	-0.004
Min		2.755	2.737	-0.063
Std Dev		0.075	0.082	0.036

7.5_I_SS_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	3.32	uA						
Min Limit	1.98	uA						
LL	1.980	1.980	1.980	1.980	1.980	1.980	1.980	1.980
Min	2.917	2.869	2.900	2.752	2.892	2.820	2.737	2.737
Average	2.961	2.972	2.917	2.882	2.950	2.834	2.890	2.890
Max	3.013	3.033	2.940	3.101	3.068	2.872	3.049	3.049
UL	3.320	3.320	3.320	3.320	3.320	3.320	3.320	3.320

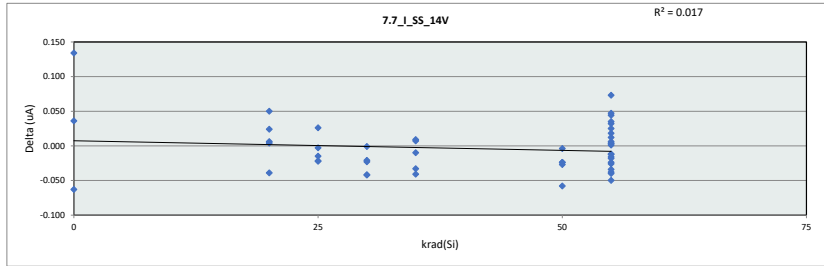


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

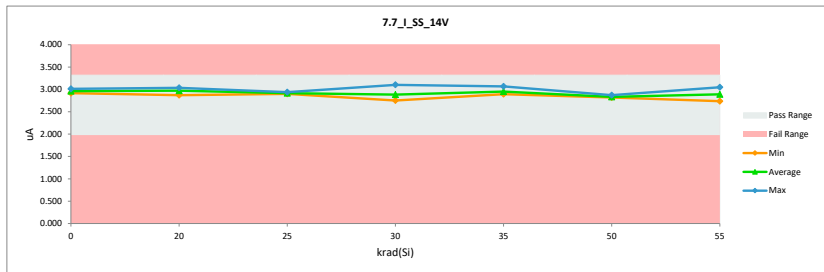
7.7_I_SS_14V	
Test Site	
Tester	
Test Number	
Unit	uA uA
Max Limit	3.32 3.32
Min Limit	1.98 1.98

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	2.879	3.013	0.134
0	51	2.917	2.953	0.036
0	52	2.980	2.917	-0.063
25	1	2.915	2.900	-0.015
25	2	2.927	2.924	-0.003
25	3	2.941	2.919	-0.022
25	4	2.876	2.902	0.026
25	5	2.962	2.940	-0.022
20	6	2.956	3.006	0.050
20	7	3.011	3.035	0.024
20	8	2.997	3.001	0.004
20	9	2.988	2.949	-0.039
20	10	2.865	2.871	0.006
35	11	2.957	2.916	-0.041
35	12	2.971	2.938	-0.033
35	13	2.931	2.938	0.007
35	14	3.058	3.067	0.009
35	15	2.903	2.893	-0.010
30	16	3.125	3.102	-0.023
30	17	2.834	2.833	-0.001
30	18	2.914	2.872	-0.042
30	19	2.896	2.854	-0.042
30	20	2.773	2.752	-0.021
55	21	3.004	2.966	-0.038
55	22	2.898	2.882	-0.016
55	23	2.813	2.845	0.032
55	24	2.877	2.837	-0.040
55	25	2.975	3.048	0.073
55	26	2.885	2.891	0.006
55	27	2.931	2.897	-0.034
55	28	2.882	2.926	0.044
55	29	2.755	2.737	-0.018
55	30	2.803	2.753	-0.050
55	31	2.824	2.825	0.001
55	32	3.009	2.985	-0.024
55	33	2.918	2.953	0.035
55	34	2.907	2.954	0.047
55	35	2.818	2.792	-0.026
55	36	2.866	2.878	0.012
55	37	2.821	2.809	-0.012
55	38	2.791	2.816	0.025
55	39	3.010	2.998	-0.012
55	40	2.887	2.890	0.003
55	41	2.963	2.967	0.004
55	42	2.915	2.933	0.018
50	43	2.834	2.830	-0.004
50	44	2.850	2.823	-0.027
50	45	2.880	2.822	-0.058
50	46	2.845	2.821	-0.024
50	47	2.896	2.872	-0.024
Max		3.125	3.102	0.134
Average		2.909	2.905	-0.004
Min		2.755	2.737	-0.063
Std Dev		0.075	0.082	0.036



7.7_I_SS_14V	
Test Site	
Tester	
Test Number	
Max Limit	3.32 uA
Min Limit	1.98 uA

krad(Si)	0	20	25	30	35	50	55
LL	1.980	1.980	1.980	1.980	1.980	1.980	1.980
Min	2.917	2.871	2.900	2.752	2.893	2.821	2.737
Average	2.961	2.972	2.917	2.883	2.950	2.834	2.890
Max	3.013	3.035	2.940	3.102	3.067	2.872	3.048
UL	3.320	3.320	3.320	3.320	3.320	3.320	3.320

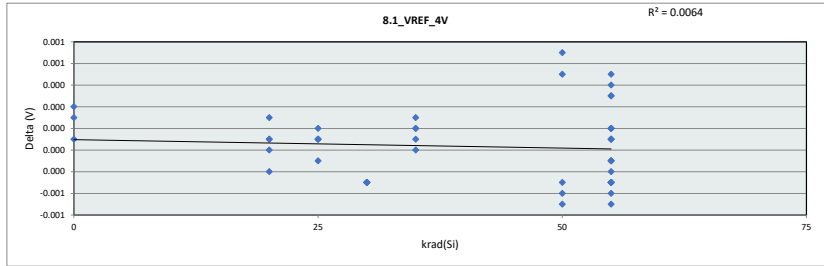


**HDR TID Report
TPS7H5005-SEP**

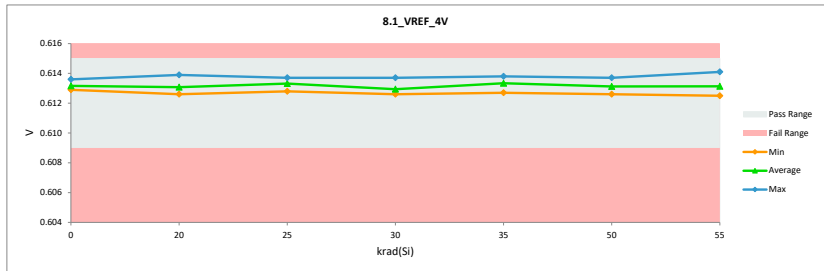
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.1_VREF_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.615
Min Limit	0.609

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.613	0.614	0.000
0	51	0.613	0.613	0.000
0	52	0.613	0.613	0.000
25	1	0.613	0.613	0.000
25	2	0.613	0.613	0.000
25	3	0.614	0.614	0.000
25	4	0.614	0.614	0.000
25	5	0.613	0.613	0.000
20	6	0.613	0.613	0.000
20	7	0.614	0.614	0.000
20	8	0.613	0.613	0.000
20	9	0.613	0.613	0.000
20	10	0.613	0.613	0.000
35	11	0.613	0.613	0.000
35	12	0.613	0.613	0.000
35	13	0.613	0.613	0.000
35	14	0.614	0.614	0.000
35	15	0.614	0.614	0.000
30	16	0.613	0.613	-0.001
30	17	0.613	0.613	-0.001
30	18	0.613	0.613	0.000
30	19	0.614	0.614	-0.001
30	20	0.613	0.613	-0.001
55	21	0.613	0.613	0.000
55	22	0.613	0.613	-0.001
55	23	0.613	0.613	0.000
55	24	0.613	0.613	0.000
55	25	0.613	0.613	0.000
55	26	0.613	0.614	0.000
55	27	0.613	0.613	0.000
55	28	0.614	0.614	0.000
55	29	0.613	0.613	0.001
55	30	0.614	0.614	0.000
55	31	0.614	0.613	-0.001
55	32	0.613	0.613	0.000
55	33	0.613	0.613	0.000
55	34	0.613	0.613	-0.001
55	35	0.613	0.613	0.000
55	36	0.613	0.613	0.000
55	37	0.614	0.613	0.000
55	38	0.613	0.613	0.000
55	39	0.613	0.613	0.000
55	40	0.613	0.613	0.000
55	41	0.613	0.613	0.000
55	42	0.613	0.613	0.000
50	43	0.613	0.613	-0.001
50	44	0.614	0.613	-0.001
50	45	0.613	0.614	0.001
50	46	0.613	0.614	0.001
50	47	0.613	0.613	-0.001
Max		0.614	0.614	0.001
Average		0.613	0.613	0.000
Min		0.613	0.613	-0.001
Std Dev		0.000	0.000	0.000



8.1_VREF_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.615	V						
Min Limit	0.609	V						
LL	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Average	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Max	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

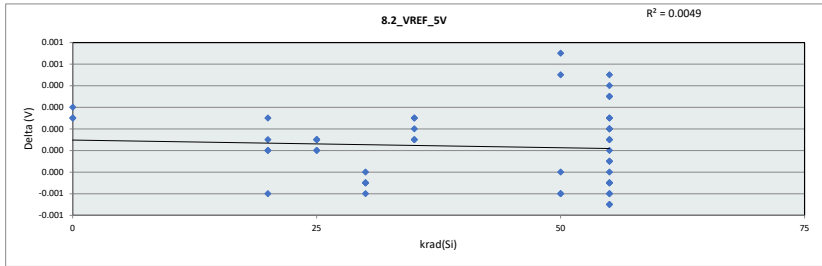


**HDR TID Report
TPS7H5005-SEP**

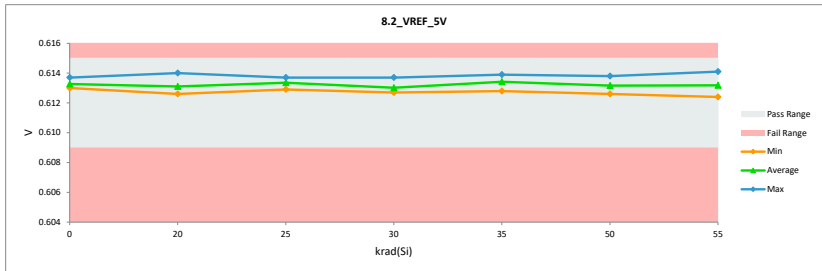
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.2_VREF_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.615
Min Limit	0.609

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.613	0.614	0.000
0	51	0.613	0.613	0.000
0	52	0.613	0.613	0.000
25	1	0.613	0.613	0.000
25	2	0.613	0.613	0.000
25	3	0.614	0.614	0.000
25	4	0.614	0.614	0.000
25	5	0.613	0.613	0.000
20	6	0.613	0.613	0.000
20	7	0.614	0.614	0.000
20	8	0.613	0.613	0.000
20	9	0.613	0.613	-0.001
20	10	0.613	0.613	0.000
35	11	0.613	0.613	0.000
35	12	0.613	0.613	0.000
35	13	0.613	0.613	0.000
35	14	0.614	0.614	0.000
35	15	0.614	0.614	0.000
30	16	0.613	0.613	-0.001
30	17	0.614	0.613	-0.001
30	18	0.613	0.613	0.000
30	19	0.614	0.614	-0.001
30	20	0.613	0.613	-0.001
55	21	0.613	0.613	0.000
55	22	0.613	0.613	-0.001
55	23	0.613	0.613	0.000
55	24	0.613	0.612	-0.001
55	25	0.613	0.613	0.000
55	26	0.614	0.614	0.000
55	27	0.613	0.613	0.000
55	28	0.614	0.614	0.000
55	29	0.613	0.613	0.000
55	30	0.614	0.614	0.000
55	31	0.614	0.613	-0.001
55	32	0.613	0.613	0.000
55	33	0.613	0.613	0.000
55	34	0.613	0.613	-0.001
55	35	0.613	0.613	0.000
55	36	0.613	0.613	0.000
55	37	0.614	0.613	-0.001
55	38	0.613	0.613	0.000
55	39	0.613	0.614	0.000
55	40	0.613	0.613	-0.001
55	41	0.613	0.613	0.000
55	42	0.613	0.613	0.000
50	43	0.613	0.613	0.000
50	44	0.614	0.613	-0.001
50	45	0.613	0.614	0.001
50	46	0.613	0.614	0.001
50	47	0.613	0.613	-0.001
	Max	0.614	0.614	0.001
	Average	0.613	0.613	0.000
	Min	0.613	0.612	-0.001
	Std Dev	0.000	0.000	0.000



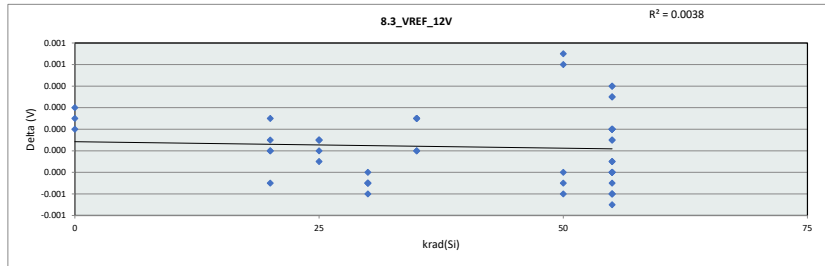
8.2_VREF_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.615	V						
Min Limit	0.609	V						
LL	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.612
Average	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Max	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615



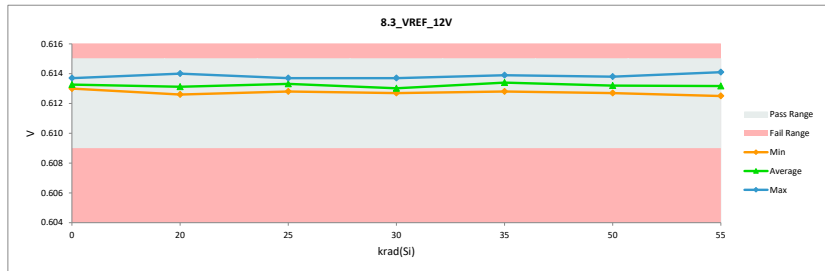
HDR TID Report TPS7H5005-SEP

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.3_VREF_12V				
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.613	0.614	0.000
0	51	0.613	0.613	0.000
0	52	0.613	0.613	0.000
25	1	0.613	0.613	0.000
25	2	0.613	0.613	0.000
25	3	0.614	0.614	0.000
25	4	0.614	0.614	0.000
25	5	0.613	0.613	0.000
20	6	0.613	0.613	0.000
20	7	0.614	0.614	0.000
20	8	0.613	0.613	0.000
20	9	0.613	0.613	0.000
20	10	0.613	0.613	0.000
35	11	0.613	0.613	0.000
35	12	0.613	0.613	0.000
35	13	0.613	0.613	0.000
35	14	0.614	0.614	0.000
35	15	0.614	0.614	0.000
30	16	0.613	0.613	-0.001
30	17	0.614	0.613	-0.001
30	18	0.613	0.613	0.000
30	19	0.614	0.614	-0.001
30	20	0.613	0.613	-0.001
55	21	0.613	0.613	0.000
55	22	0.613	0.613	-0.001
55	23	0.613	0.613	-0.001
55	24	0.613	0.613	-0.001
55	25	0.613	0.613	0.000
55	26	0.614	0.614	0.000
55	27	0.613	0.613	0.000
55	28	0.614	0.614	0.000
55	29	0.613	0.613	0.000
55	30	0.614	0.614	0.000
55	31	0.614	0.613	-0.001
55	32	0.613	0.613	0.000
55	33	0.613	0.613	0.000
55	34	0.613	0.613	-0.001
55	35	0.613	0.613	0.000
55	36	0.613	0.613	0.000
55	37	0.614	0.613	0.000
55	38	0.613	0.613	0.000
55	39	0.613	0.613	0.000
55	40	0.613	0.613	0.000
55	41	0.613	0.613	0.000
55	42	0.613	0.613	0.000
50	43	0.613	0.613	0.000
50	44	0.614	0.613	-0.001
50	45	0.613	0.614	0.001
50	46	0.613	0.614	0.001
50	47	0.613	0.613	-0.001
Max		0.614	0.614	0.001
Average		0.613	0.613	0.000
Min		0.613	0.613	-0.001
Std Dev		0.000	0.000	0.000



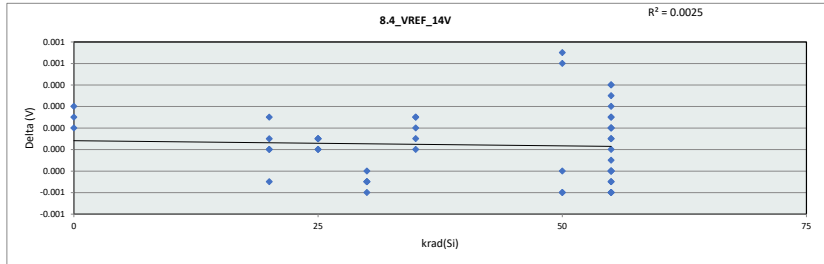
8.3_VREF_12V							
krad(Si)	0	20	25	30	35	50	55
LL	0.609	0.609	0.609	0.609	0.609	0.609	0.609
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Average	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Max	0.614	0.614	0.614	0.614	0.614	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615



**HDR TID Report
TPS7H5005-SEP**

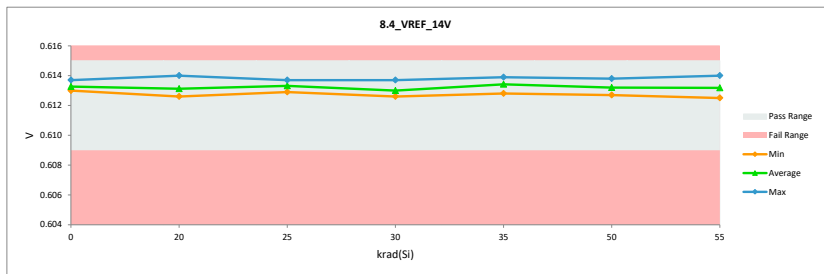
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.4_VREF_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.615
Min Limit	0.609



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.613	0.614	0.000
0	51	0.613	0.613	0.000
0	52	0.613	0.613	0.000
25	1	0.613	0.613	0.000
25	2	0.613	0.613	0.000
25	3	0.614	0.614	0.000
25	4	0.614	0.614	0.000
25	5	0.613	0.613	0.000
20	6	0.613	0.613	0.000
20	7	0.614	0.614	0.000
20	8	0.613	0.613	0.000
20	9	0.613	0.613	0.000
20	10	0.613	0.613	0.000
35	11	0.613	0.613	0.000
35	12	0.613	0.613	0.000
35	13	0.613	0.613	0.000
35	14	0.614	0.614	0.000
35	15	0.614	0.614	0.000
30	16	0.613	0.613	-0.001
30	17	0.614	0.613	-0.001
30	18	0.613	0.613	0.000
30	19	0.614	0.614	-0.001
30	20	0.613	0.613	-0.001
55	21	0.613	0.613	0.000
55	22	0.613	0.613	-0.001
55	23	0.613	0.613	0.000
55	24	0.613	0.613	-0.001
55	25	0.613	0.613	0.000
55	26	0.614	0.614	0.000
55	27	0.613	0.613	0.000
55	28	0.614	0.614	0.000
55	29	0.613	0.613	0.000
55	30	0.614	0.614	0.000
55	31	0.614	0.613	-0.001
55	32	0.613	0.613	0.000
55	33	0.613	0.613	0.000
55	34	0.613	0.613	-0.001
55	35	0.613	0.613	0.000
55	36	0.613	0.613	0.000
55	37	0.614	0.613	0.000
55	38	0.613	0.613	0.000
55	39	0.613	0.614	0.000
55	40	0.613	0.613	0.000
55	41	0.613	0.613	0.000
55	42	0.613	0.613	0.000
50	43	0.613	0.613	0.000
50	44	0.614	0.613	-0.001
50	45	0.613	0.614	0.001
50	46	0.613	0.614	0.001
50	47	0.613	0.613	-0.001
	Max	0.614	0.614	0.001
	Average	0.613	0.613	0.000
	Min	0.613	0.613	-0.001
	Std Dev	0.000	0.000	0.000

8.4_VREF_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.615	V						
Min Limit	0.609	V						
krad(Si)								
LL	0.609	0.609	0.609	0.609	0.609	0.609	0.609	0.609
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Average	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Max	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

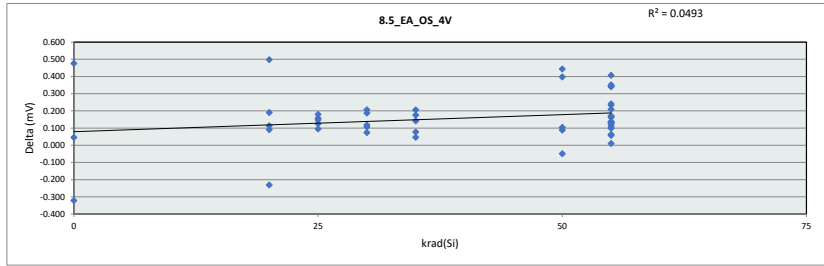


**HDR TID Report
TPS7H5005-SEP**

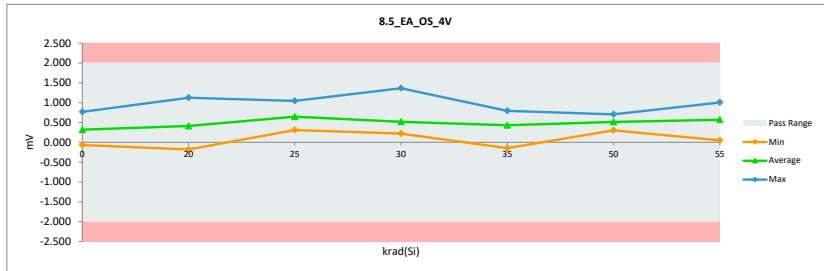
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.5_EA_OS_4V	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	2 2
Min Limit	-2 -2

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.291	0.766	0.475
0	51	0.255	-0.068	-0.323
0	52	0.211	0.255	0.044
25	1	0.190	0.336	0.146
25	2	0.215	0.309	0.094
25	3	0.865	1.043	0.179
25	4	0.511	0.666	0.156
25	5	0.750	0.874	0.124
20	6	0.010	0.507	0.497
20	7	0.935	1.125	0.189
20	8	0.323	0.412	0.089
20	9	0.426	0.194	-0.232
20	10	-0.293	-0.181	0.112
35	11	0.226	0.431	0.205
35	12	-0.194	-0.148	0.045
35	13	0.461	0.602	0.141
35	14	0.394	0.470	0.076
35	15	0.619	0.793	0.174
30	16	0.018	0.224	0.205
30	17	0.345	0.531	0.186
30	18	0.130	0.246	0.116
30	19	1.290	1.363	0.073
30	20	0.113	0.219	0.106
55	21	0.310	0.443	0.133
55	22	0.604	0.660	0.056
55	23	-0.158	0.050	0.208
55	24	0.105	0.344	0.240
55	25	-0.100	0.250	0.350
55	26	0.597	1.003	0.406
55	27	-0.021	0.320	0.341
55	28	0.829	0.997	0.168
55	29	0.078	0.418	0.340
55	30	0.748	0.980	0.232
55	31	0.891	0.988	0.097
55	32	0.263	0.432	0.169
55	33	0.843	0.979	0.136
55	34	0.288	0.448	0.161
55	35	0.263	0.371	0.108
55	36	0.340	0.403	0.062
55	37	0.852	0.862	0.010
55	38	0.176	0.520	0.345
55	39	0.450	0.579	0.130
55	40	0.357	0.493	0.136
55	41	0.216	0.337	0.121
55	42	0.449	0.578	0.128
50	43	0.214	0.301	0.087
50	44	0.601	0.705	0.103
50	45	0.048	0.490	0.442
50	46	0.167	0.564	0.397
50	47	0.564	0.514	-0.050
Max		1.290	1.363	0.497
Average		0.361	0.520	0.159
Min		-0.293	-0.181	-0.323
Std Dev		0.328	0.327	0.151



8.5_EA_OS_4V							
Test Site							
Tester							
Test Number							
Max Limit	2 mV						
Min Limit	-2 mV						
krad(Si)	0	20	25	30	35	50	55
LL	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000
Min	-0.068	-0.181	0.309	0.219	-0.148	0.301	0.050
Average	0.318	0.411	0.646	0.517	0.430	0.515	0.566
Max	0.766	1.125	1.043	1.363	0.793	0.705	1.003
UL	2.000	2.000	2.000	2.000	2.000	2.000	2.000

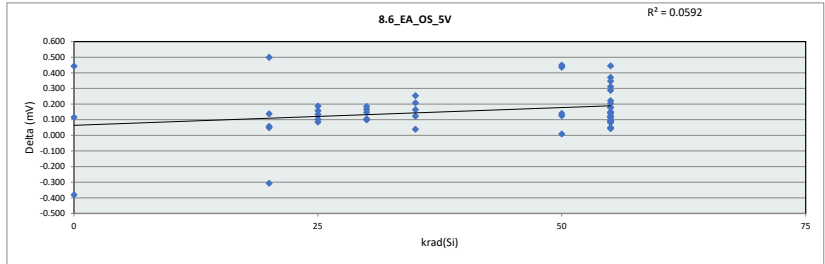


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

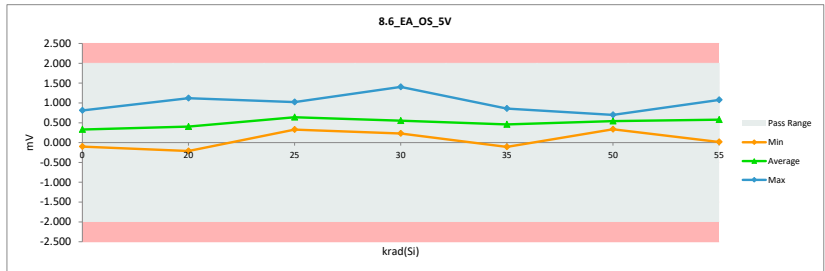
8.6_EA_OS_5V	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	2 2
Min Limit	-2 -2

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.370	0.811	0.442
0	51	0.280	-0.102	-0.382
0	52	0.166	0.280	0.114
25	1	0.198	0.355	0.157
25	2	0.194	0.328	0.134
25	3	0.834	1.020	0.186
25	4	0.535	0.635	0.101
25	5	0.773	0.857	0.084
20	6	0.066	0.564	0.498
20	7	0.983	1.119	0.136
20	8	0.335	0.392	0.056
20	9	0.464	0.156	-0.308
20	10	-0.259	-0.212	0.047
35	11	0.251	0.458	0.207
35	12	-0.230	-0.108	0.122
35	13	0.471	0.634	0.163
35	14	0.412	0.450	0.038
35	15	0.605	0.858	0.252
30	16	0.106	0.271	0.165
30	17	0.362	0.546	0.184
30	18	0.167	0.313	0.146
30	19	1.306	1.404	0.098
30	20	0.127	0.231	0.104
55	21	0.347	0.429	0.082
55	22	0.661	0.703	0.042
55	23	-0.164	0.014	0.178
55	24	0.165	0.282	0.117
55	25	-0.095	0.216	0.311
55	26	0.635	1.077	0.443
55	27	0.047	0.334	0.287
55	28	0.804	1.007	0.203
55	29	0.082	0.452	0.370
55	30	0.751	0.971	0.221
55	31	0.873	0.996	0.123
55	32	0.275	0.451	0.176
55	33	0.849	0.963	0.113
55	34	0.326	0.407	0.081
55	35	0.305	0.421	0.116
55	36	0.340	0.486	0.146
55	37	0.886	0.934	0.049
55	38	0.156	0.502	0.346
55	39	0.396	0.537	0.141
55	40	0.370	0.467	0.096
55	41	0.251	0.398	0.148
55	42	0.546	0.637	0.091
50	43	0.211	0.336	0.125
50	44	0.560	0.698	0.139
50	45	0.126	0.574	0.448
50	46	0.155	0.590	0.435
50	47	0.500	0.507	0.007
Max		1.306	1.404	0.498
Average		0.377	0.533	0.155
Min		-0.259	-0.212	-0.382
Std Dev		0.324	0.334	0.158



8.6_EA_OS_5V	
Test Site	
Tester	
Test Number	
Max Limit	2 mV
Min Limit	-2 mV

krad(Si)	0	20	25	30	35	50	55
LL	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000
Min	-0.102	-0.212	0.328	0.231	-0.108	0.336	0.014
Average	0.330	0.404	0.639	0.553	0.458	0.541	0.576
Max	0.811	1.119	1.020	1.404	0.858	0.698	1.078
UL	2.000	2.000	2.000	2.000	2.000	2.000	2.000

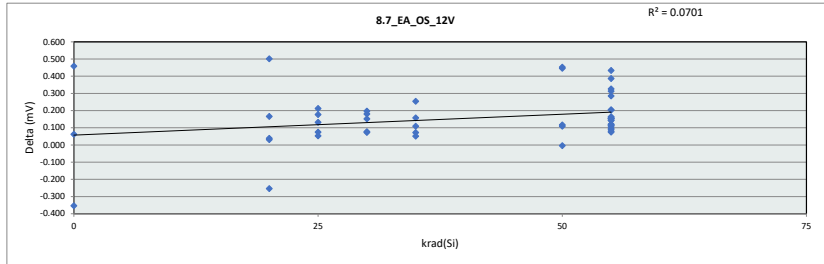


**HDR TID Report
TPS7H5005-SEP**

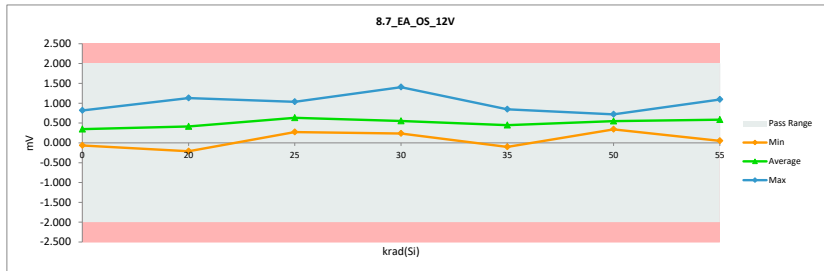
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.7_EA_OS_12V	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	2 2
Min Limit	-2 -2

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.359	0.817	0.458
0	51	0.288	-0.066	-0.354
0	52	0.227	0.288	0.061
25	1	0.199	0.331	0.131
25	2	0.221	0.274	0.053
25	3	0.825	1.036	0.212
25	4	0.546	0.621	0.074
25	5	0.721	0.898	0.177
20	6	0.071	0.572	0.501
20	7	0.965	1.131	0.166
20	8	0.361	0.399	0.038
20	9	0.432	0.178	-0.254
20	10	-0.242	-0.211	0.031
35	11	0.273	0.431	0.157
35	12	-0.172	-0.101	0.072
35	13	0.479	0.588	0.109
35	14	0.425	0.476	0.051
35	15	0.591	0.845	0.254
30	16	0.090	0.270	0.180
30	17	0.362	0.559	0.197
30	18	0.146	0.298	0.152
30	19	1.331	1.404	0.073
30	20	0.161	0.238	0.077
55	21	0.348	0.428	0.080
55	22	0.611	0.721	0.110
55	23	-0.113	0.051	0.163
55	24	0.176	0.293	0.117
55	25	-0.153	0.234	0.386
55	26	0.659	1.092	0.433
55	27	0.032	0.317	0.285
55	28	0.824	0.985	0.162
55	29	0.090	0.402	0.312
55	30	0.781	0.985	0.204
55	31	0.904	0.995	0.090
55	32	0.292	0.446	0.154
55	33	0.851	1.005	0.153
55	34	0.321	0.463	0.142
55	35	0.319	0.439	0.120
55	36	0.343	0.456	0.114
55	37	0.876	0.950	0.074
55	38	0.179	0.505	0.326
55	39	0.395	0.539	0.144
55	40	0.327	0.529	0.202
55	41	0.252	0.405	0.153
55	42	0.550	0.647	0.097
50	43	0.223	0.340	0.117
50	44	0.610	0.719	0.109
50	45	0.111	0.563	0.452
50	46	0.155	0.601	0.446
50	47	0.522	0.517	-0.005
Max	1.331	1.404	0.501	
Average	0.383	0.538	0.155	
Min	-0.242	-0.211	-0.354	
Std Dev	0.321	0.335	0.155	



8.7_EA_OS_12V								
Test Site								
Tester								
Test Number								
Max Limit	2	mV						
Min Limit	-2	mV						
krad(Si)	0	20	25	30	35	50	55	
LL	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000	
Min	-0.066	-0.211	0.274	0.238	-0.101	0.340	0.051	
Average	0.346	0.414	0.632	0.554	0.448	0.548	0.586	
Max	0.817	1.131	1.036	1.404	0.845	0.719	1.092	
UL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	

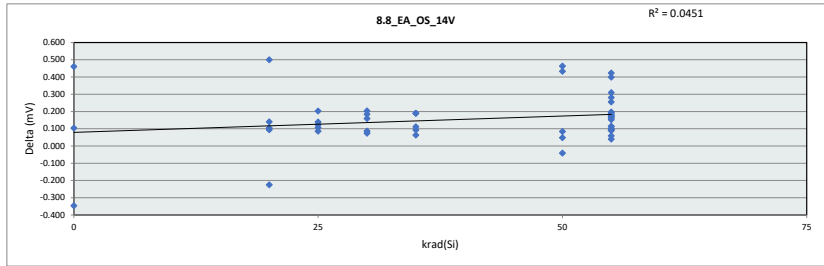


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

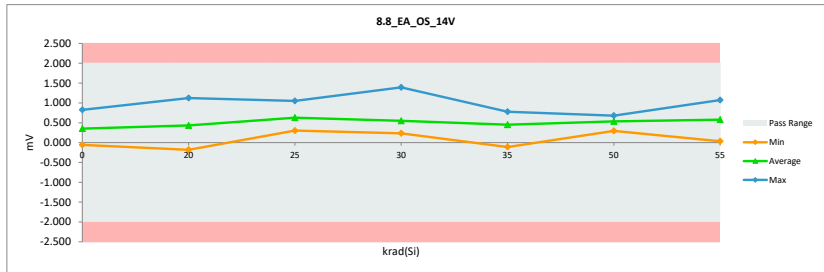
8.8_EA_OS_14V	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	2 2
Min Limit	-2 -2

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.364	0.824	0.460
0	51	0.290	-0.057	-0.347
0	52	0.187	0.290	0.103
25	1	0.178	0.316	0.138
25	2	0.218	0.303	0.085
25	3	0.848	1.050	0.202
25	4	0.537	0.660	0.123
25	5	0.703	0.809	0.106
20	6	0.070	0.570	0.500
20	7	0.985	1.125	0.140
20	8	0.335	0.438	0.103
20	9	0.434	0.208	-0.226
20	10	-0.275	-0.182	0.093
35	11	0.279	0.468	0.189
35	12	-0.175	-0.112	0.063
35	13	0.495	0.588	0.093
35	14	0.420	0.530	0.111
35	15	0.589	0.778	0.190
30	16	0.110	0.268	0.158
30	17	0.345	0.548	0.203
30	18	0.112	0.296	0.184
30	19	1.319	1.392	0.073
30	20	0.148	0.234	0.086
55	21	0.356	0.396	0.040
55	22	0.618	0.716	0.098
55	23	-0.162	0.035	0.196
55	24	0.138	0.311	0.173
55	25	-0.103	0.295	0.399
55	26	0.650	1.073	0.423
55	27	0.050	0.305	0.255
55	28	0.826	1.012	0.186
55	29	0.114	0.394	0.281
55	30	0.766	0.945	0.178
55	31	0.887	0.983	0.096
55	32	0.307	0.467	0.160
55	33	0.837	1.005	0.168
55	34	0.316	0.405	0.089
55	35	0.313	0.424	0.112
55	36	0.366	0.424	0.059
55	37	0.824	0.938	0.114
55	38	0.178	0.487	0.309
55	39	0.424	0.576	0.152
55	40	0.323	0.516	0.194
55	41	0.235	0.407	0.172
55	42	0.541	0.633	0.092
50	43	0.210	0.294	0.084
50	44	0.631	0.679	0.048
50	45	0.104	0.567	0.462
50	46	0.171	0.604	0.433
50	47	0.577	0.536	-0.041
	Max	1.319	1.392	0.500
	Average	0.380	0.535	0.155
	Min	-0.275	-0.182	-0.347
	Std Dev	0.322	0.328	0.151



8.8_EA_OS_14V	
Test Site	
Tester	
Test Number	
Max Limit	2 mV
Min Limit	-2 mV

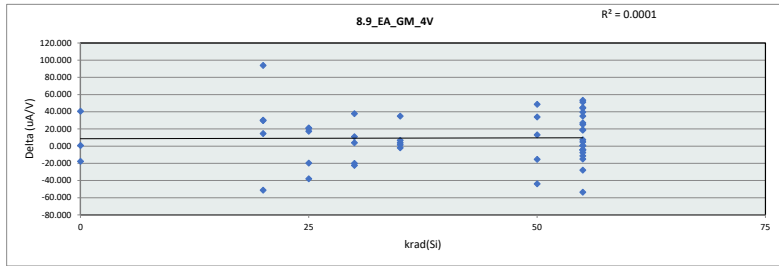
krad(Si)	0	20	25	30	35	50	55
LL	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000	-2.000
Min	-0.057	-0.182	0.303	0.234	-0.112	0.294	0.035
Average	0.352	0.432	0.628	0.548	0.451	0.536	0.580
Max	0.824	1.125	1.050	1.392	0.778	0.679	1.073
UL	2.000	2.000	2.000	2.000	2.000	2.000	2.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

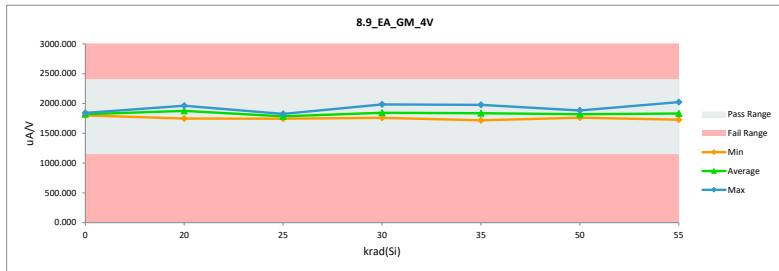
8.9_EA_GM_4V	
Test Site	
Tester	
Test Number	
Unit	uA/V
Max Limit	2400
Min Limit	1150



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1819.714	1820.326	0.612
0	51	1799.947	1840.485	40.538
0	52	1817.713	1799.947	-17.766
25	1	1766.767	1784.051	17.284
25	2	1765.084	1785.494	20.410
25	3	1844.755	1824.890	-19.865
25	4	1723.639	1744.764	21.125
25	5	1820.316	1782.260	-38.056
20	6	1909.594	1858.158	-51.436
20	7	1876.006	1905.582	29.576
20	8	1931.001	1961.078	30.077
20	9	1813.292	1907.141	93.849
20	10	1732.307	1746.844	14.537
35	11	1713.596	1717.305	3.709
35	12	1830.694	1832.144	1.450
35	13	1846.623	1844.613	-2.010
35	14	1941.223	1975.964	34.741
35	15	1803.323	1809.889	6.566
30	16	1946.911	1984.495	37.584
30	17	1812.783	1823.640	10.857
30	18	1839.506	1843.296	3.790
30	19	1832.574	1812.421	-20.153
30	20	1780.917	1758.314	-22.603
55	21	1954.874	1950.454	-4.420
55	22	1780.907	1781.361	0.454
55	23	1782.932	1836.154	53.222
55	24	1794.076	1765.976	-28.100
55	25	1972.108	2023.179	51.071
55	26	1710.407	1728.888	18.481
55	27	1797.209	1841.374	44.165
55	28	1749.203	1756.574	7.371
55	29	1765.623	1750.407	-15.216
55	30	1895.441	1841.788	-53.653
55	31	1713.613	1732.468	18.855
55	32	1877.329	1872.927	-4.402
55	33	1939.081	1927.651	-11.430
55	34	1831.204	1875.912	44.708
55	35	1742.092	1742.490	0.398
55	36	1806.566	1811.305	4.739
55	37	1765.893	1758.314	-7.579
55	38	1783.586	1823.075	39.489
55	39	1890.114	1924.953	34.839
55	40	1775.545	1802.451	26.906
55	41	1862.904	1887.934	25.030
55	42	1865.441	1861.095	-4.346
50	43	1777.332	1790.381	13.049
50	44	1777.323	1761.813	-15.510
50	45	1826.459	1782.516	-43.943
50	46	1833.285	1881.898	48.613
50	47	1842.132	1875.912	33.780
	Max	1972.108	2023.179	93.849
	Average	1821.619	1831.047	9.428
	Min	1710.407	1717.305	-53.653
	Std Dev	66.738	72.779	29.268

8.9_EA_GM_4V	
Test Site	
Tester	
Test Number	
Max Limit	2400
Min Limit	1150

krad(Si)	0	20	25	30	35	50	55
LL	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000
Min	1799.947	1746.844	1744.764	1758.314	1717.305	1761.813	1728.888
Average	1820.253	1875.761	1784.292	1844.433	1835.983	1818.504	1831.670
Max	1840.485	1961.078	1824.890	1984.495	1975.964	1881.898	2023.179
UL	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000

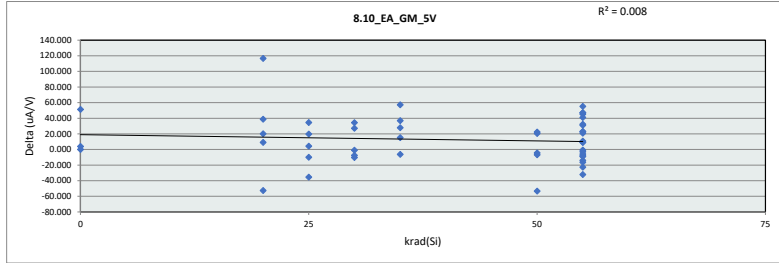


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

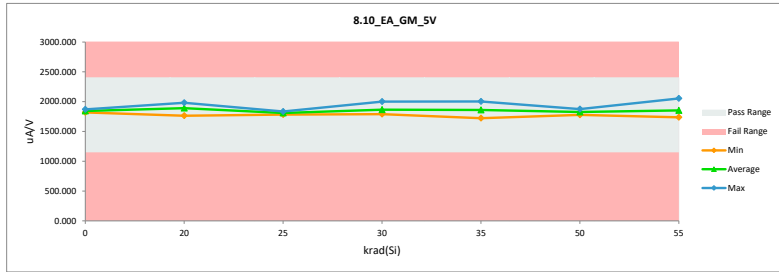
8.10_EA_GM_5V	
Test Site	
Tester	
Test Number	
Unit	uA/V
Max Limit	2400
Min Limit	1150

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1838.468	1842.132	3.664
0	51	1819.388	1870.641	51.253
0	52	1819.517	1819.388	-0.129
25	1	1808.221	1812.411	4.190
25	2	1781.635	1801.329	19.694
25	3	1870.516	1835.009	-35.507
25	4	1749.723	1784.061	34.338
25	5	1825.525	1815.520	-10.005
20	6	1904.014	1851.330	-52.684
20	7	1896.652	1916.586	19.934
20	8	1943.337	1981.951	38.614
20	9	1823.601	1940.011	116.410
20	10	1755.563	1764.546	8.983
35	11	1728.683	1722.321	-6.362
35	12	1836.395	1864.042	27.647
35	13	1836.385	1873.252	36.867
35	14	1946.392	2003.513	57.121
35	15	1819.990	1834.999	15.009
30	16	1967.413	2001.589	34.176
30	17	1832.384	1824.662	-7.722
30	18	1873.963	1872.927	-1.036
30	19	1845.394	1835.009	-10.385
30	20	1763.331	1790.381	27.050
55	21	1981.530	1990.617	9.087
55	22	1808.221	1807.422	-0.799
55	23	1797.199	1852.311	55.112
55	24	1797.662	1783.454	-14.208
55	25	2008.682	2053.816	45.134
55	26	1728.674	1737.572	8.898
55	27	1823.591	1864.373	40.782
55	28	1747.909	1794.854	46.945
55	29	1785.494	1768.872	-16.622
55	30	1892.256	1860.115	-32.141
55	31	1754.407	1777.257	22.850
55	32	1903.322	1894.232	-9.090
55	33	1969.307	1979.951	10.644
55	34	1839.002	1869.953	30.951
55	35	1776.438	1768.210	-8.228
55	36	1821.265	1815.205	-6.060
55	37	1791.739	1768.853	-22.886
55	38	1797.199	1844.197	46.998
55	39	1928.116	1924.953	-3.163
55	40	1813.792	1834.438	20.646
55	41	1871.361	1894.008	22.647
55	42	1853.713	1885.928	32.215
50	43	1790.114	1810.397	20.283
50	44	1781.986	1777.407	-4.579
50	45	1846.948	1793.415	-53.533
50	46	1853.713	1875.912	22.199
50	47	1876.930	1869.953	-6.977
Max		2008.682	2053.816	116.410
Average		1838.541	1851.106	12.565
Min		1728.674	1722.321	-53.533
Std Dev		67.154	73.720	30.191



8.10_EA_GM_5V	
Test Site	
Tester	
Test Number	
Max Limit	2400 uA/V
Min Limit	1150 uA/V

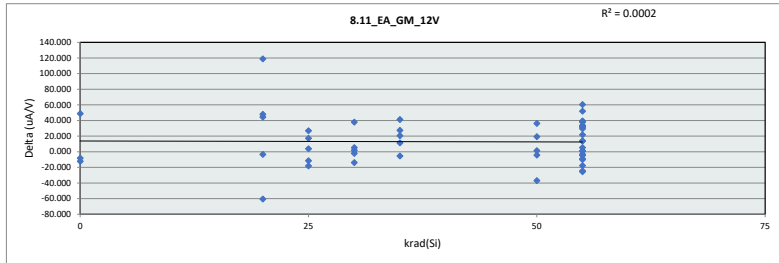
krad(Si)	0	20	25	30	35	50	55
LL	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000
Min	1819.388	1764.546	1784.061	1790.381	1722.321	1777.407	1737.572
Average	1844.054	1890.885	1809.666	1864.914	1859.625	1825.417	1853.209
Max	1870.641	1981.951	1835.009	2001.589	2003.513	1875.912	2053.816
UL	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000



**HDR TID Report
TPS7H5005-SEP**

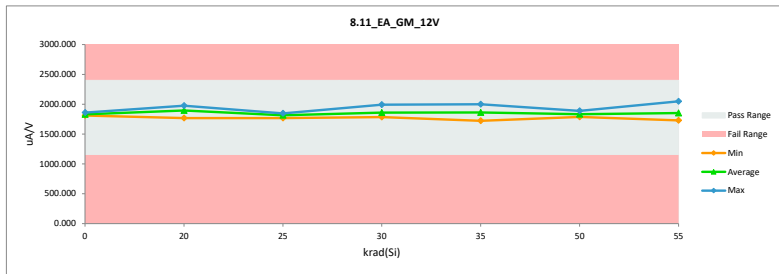
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.11_EA_GM_12V	
Test Site	
Tester	
Test Number	
Unit	uA/V
Max Limit	2400
Min Limit	1150



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1831.814	1819.388	-12.426
0	51	1811.002	1859.559	48.557
0	52	1819.388	1811.002	-8.386
25	1	1808.231	1834.999	26.768
25	2	1797.700	1801.329	3.629
25	3	1864.860	1846.501	-18.359
25	4	1751.275	1768.350	17.075
25	5	1835.762	1824.166	-11.596
20	6	1929.746	1869.119	-60.627
20	7	1889.358	1937.043	47.685
20	8	1930.990	1975.173	44.183
20	9	1808.231	1926.854	118.623
20	10	1772.497	1768.881	-3.616
35	11	1727.838	1722.330	-5.508
35	12	1858.837	1869.953	11.116
35	13	1820.642	1861.674	41.032
35	14	1978.527	1998.989	20.462
35	15	1825.019	1852.321	27.302
30	16	1954.532	1992.236	37.704
30	17	1830.105	1815.981	-14.124
30	18	1866.915	1864.622	-2.293
30	19	1843.275	1845.069	1.794
30	20	1780.917	1786.026	5.109
55	21	1985.892	1976.627	-9.265
55	22	1830.684	1804.943	-25.741
55	23	1807.228	1840.737	33.509
55	24	1808.231	1790.381	-17.850
55	25	2017.523	2048.825	31.302
55	26	1728.674	1729.628	0.954
55	27	1820.672	1859.064	38.392
55	28	1733.766	1785.627	51.861
55	29	1763.470	1784.953	21.483
55	30	1878.537	1868.266	-10.271
55	31	1769.039	1774.203	5.164
55	32	1878.653	1875.366	-3.287
55	33	1958.411	1987.739	29.328
55	34	1842.658	1881.909	39.251
55	35	1744.664	1758.323	13.659
55	36	1806.012	1806.858	0.846
55	37	1779.113	1774.203	-4.910
55	38	1786.311	1846.511	60.200
55	39	1943.348	1918.690	-24.658
55	40	1813.283	1845.354	32.071
55	41	1862.231	1900.121	37.890
55	42	1871.371	1885.059	13.688
50	43	1793.233	1812.421	19.188
50	44	1785.637	1786.977	1.340
50	45	1842.132	1805.011	-37.121
50	46	1853.723	1889.816	36.093
50	47	1874.329	1869.953	-4.376
	Max	2017.523	2048.825	118.623
	Average	1838.326	1851.183	12.857
	Min	1727.838	1722.330	-60.627
	Std Dev	68.533	72.571	29.609

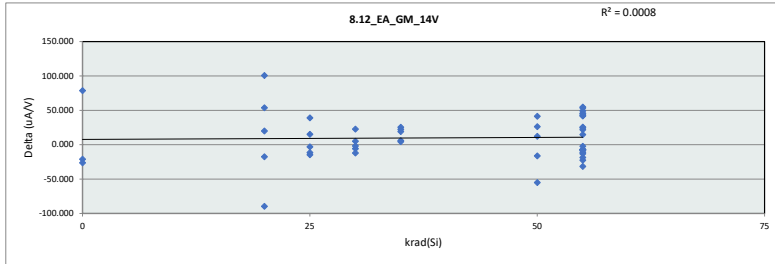
8.11_EA_GM_12V								
Test Site								
Tester								
Test Number								
Max Limit	2400	uA/V						
Min Limit	1150	uA/V						
krad(Si)	0	20	25	30	35	50	55	
LL	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000	
Min	1811.002	1768.881	1768.350	1786.026	1722.330	1786.977	1729.628	
Average	1829.983	1895.414	1815.069	1860.787	1861.053	1832.836	1851.972	
Max	1859.559	1975.173	1846.501	1992.236	1998.989	1889.816	2048.825	
UL	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000	



**HDR TID Report
TPS7H5005-SEP**

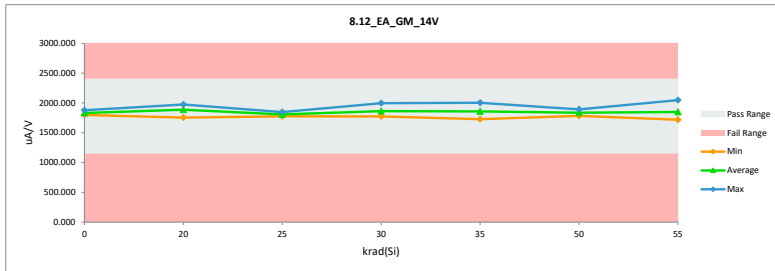
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.12_EA_GM_14V	
Test Site	
Tester	
Test Number	
Unit	uA/V
Max Limit	2400
Min Limit	1150



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1840.414	1819.388	-21.026
0	51	1798.751	1877.329	78.578
0	52	1825.029	1798.751	-26.278
25	1	1790.104	1786.987	-3.117
25	2	1797.199	1812.421	15.222
25	3	1861.168	1846.511	-14.657
25	4	1737.608	1776.589	38.981
25	5	1825.565	1814.096	-11.469
20	6	1934.018	1844.380	-89.638
20	7	1874.675	1928.449	53.774
20	8	1954.783	1974.743	19.960
20	9	1830.684	1931.268	100.584
20	10	1770.645	1753.078	-17.567
35	11	1721.490	1727.375	5.885
35	12	1843.569	1848.026	4.457
35	13	1842.284	1864.632	22.348
35	14	1976.639	2002.007	25.368
35	15	1822.194	1841.333	19.139
30	16	1973.082	1995.755	22.673
30	17	1825.376	1823.640	-1.736
30	18	1869.734	1874.727	4.993
30	19	1845.293	1839.456	-5.837
30	20	1786.302	1774.203	-12.099
55	21	1978.352	1955.854	-22.498
55	22	1803.788	1801.638	-2.150
55	23	1797.199	1846.511	49.312
55	24	1797.199	1778.604	-18.595
55	25	2002.162	2046.863	44.701
55	26	1725.066	1718.220	-6.846
55	27	1822.204	1864.032	41.828
55	28	1762.933	1787.425	24.492
55	29	1781.995	1768.872	-13.123
55	30	1888.348	1856.852	-31.496
55	31	1722.365	1744.274	21.909
55	32	1874.675	1889.454	14.779
55	33	1964.936	1957.360	-7.576
55	34	1842.132	1887.934	45.802
55	35	1764.333	1756.565	-7.768
55	36	1825.029	1818.018	-7.011
55	37	1775.545	1764.453	-11.092
55	38	1775.545	1830.345	54.800
55	39	1939.092	1931.257	-7.835
55	40	1803.701	1829.297	25.596
55	41	1871.361	1924.953	53.592
55	42	1859.559	1902.168	42.609
50	43	1787.815	1829.118	41.303
50	44	1799.937	1783.757	-16.180
50	45	1852.751	1797.719	-55.032
50	46	1865.441	1891.787	26.346
50	47	1869.671	1881.898	12.227
	Max	2002.162	2046.863	100.584
	Average	1837.995	1848.007	10.013
	Min	1721.490	1718.220	-89.638
	Std Dev	69.852	74.934	33.387

8.12_EA_GM_14V							
Test Site							
Tester							
Test Number							
Max Limit	2400	uA/V					
Min Limit	1150	uA/V					
krad(Si)	0	20	25	30	35	50	55
LL	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000	1150.000
Min	1798.751	1753.078	1776.589	1774.203	1727.375	1783.757	1718.220
Average	1831.823	1886.384	1807.321	1861.556	1856.675	1836.856	1848.225
Max	1877.329	1974.743	1846.511	1846.511	1995.755	2002.007	2046.863
UL	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000	2400.000



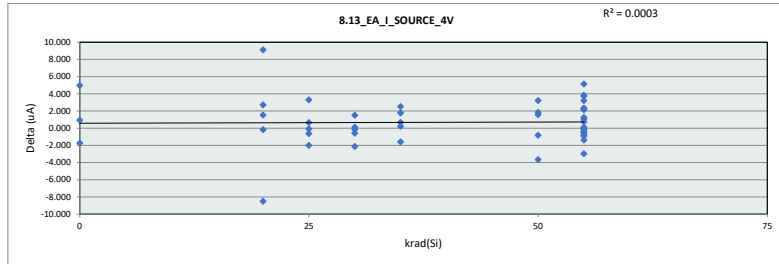
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.13_EA_I_SOURCE_4V

Test Site	
Tester	
Test Number	
Unit	uA uA
Max Limit	190 190
Min Limit	100 100

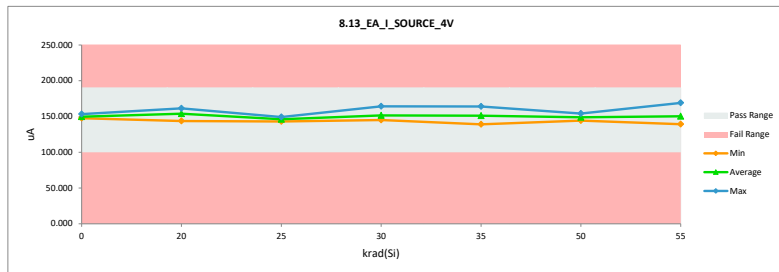
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	149.383	147.640	-1.743
0	51	148.320	153.272	4.952
0	52	147.404	148.320	0.916
25	1	146.031	145.931	-0.100
25	2	145.957	146.584	0.627
25	3	149.904	149.258	-0.646
25	4	139.764	143.038	3.274
25	5	148.174	146.166	-2.008
20	6	159.101	150.583	-8.518
20	7	152.935	155.626	2.691
20	8	159.995	161.506	1.511
20	9	149.100	158.197	9.097
20	10	143.953	143.769	-0.184
35	11	140.700	139.080	-1.620
35	12	151.800	152.462	0.662
35	13	149.281	151.781	2.500
35	14	162.255	164.012	1.757
35	15	147.841	148.046	0.205
30	16	162.787	164.267	1.480
30	17	148.617	148.713	0.096
30	18	153.413	152.825	-0.588
30	19	148.797	146.644	-2.153
30	20	145.174	145.007	-0.167
55	21	162.501	161.715	-0.786
55	22	145.958	145.512	-0.446
55	23	148.049	151.756	3.707
55	24	146.445	146.078	-0.367
55	25	165.218	169.027	3.809
55	26	138.226	139.269	1.043
55	27	149.435	151.711	2.276
55	28	140.237	143.440	3.203
55	29	144.888	143.500	-1.388
55	30	153.224	150.236	-2.988
55	31	140.170	140.126	-0.044
55	32	153.669	153.548	-0.121
55	33	159.411	159.510	0.099
55	34	149.130	154.250	5.120
55	35	141.618	142.345	0.727
55	36	147.649	146.711	-0.938
55	37	143.050	142.509	-0.541
55	38	146.388	148.520	2.132
55	39	157.234	157.094	-0.140
55	40	146.690	148.935	2.245
55	41	153.973	156.300	2.327
55	42	151.969	153.205	1.236
50	43	145.522	147.348	1.826
50	44	145.062	144.221	-0.841
50	45	149.393	145.720	-3.673
50	46	150.993	154.186	3.193
50	47	151.719	153.276	1.557
Max		165.218	169.027	9.097
Average		149.570	150.255	0.685
Min		138.226	139.080	-8.518
Std Dev		6.351	6.749	2.620



8.13_EA_I_SOURCE_4V

Test Site	
Tester	
Test Number	
Max Limit	190 uA
Min Limit	100 uA

krad(Si)	0	20	25	30	35	50	55
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	147.640	143.769	143.038	145.007	139.080	144.221	139.269
Average	149.744	153.936	146.195	151.491	151.076	148.950	150.241
Max	153.272	161.506	149.258	164.267	164.012	154.186	169.027
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000

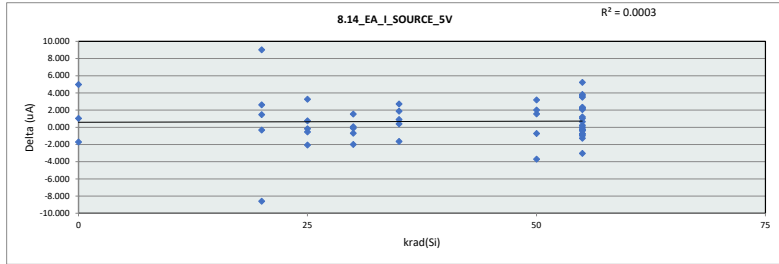


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

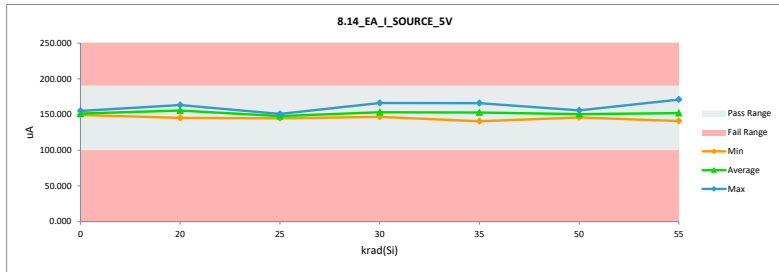
8.14_EA_I_SOURCE_5V	
Test Site	
Tester	
Test Number	
Unit	uA uA
Max Limit	190 190
Min Limit	100 100

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	151.114	149.381	-1.733
0	51	150.030	154.992	4.962
0	52	149.014	150.030	1.016
25	1	147.655	147.465	-0.190
25	2	147.584	148.314	0.730
25	3	151.391	150.839	-0.552
25	4	141.437	144.688	3.251
25	5	149.858	147.772	-2.086
20	6	160.950	152.335	-8.615
20	7	154.653	157.250	2.597
20	8	161.797	163.248	1.451
20	9	150.774	159.768	8.994
20	10	145.569	145.236	-0.333
35	11	142.237	140.571	-1.666
35	12	153.408	154.289	0.881
35	13	150.980	153.677	2.697
35	14	163.980	165.840	1.860
35	15	149.460	149.840	0.380
30	16	164.595	166.114	1.519
30	17	150.240	150.289	0.049
30	18	155.087	154.373	-0.714
30	19	150.443	148.418	-2.025
30	20	146.956	146.825	-0.131
55	21	164.471	163.472	-0.999
55	22	147.600	147.192	-0.408
55	23	149.703	153.343	3.640
55	24	148.318	147.506	-0.812
55	25	167.093	170.890	3.797
55	26	139.765	140.780	1.015
55	27	151.201	153.362	2.161
55	28	141.792	145.273	3.481
55	29	146.392	145.098	-1.294
55	30	155.125	152.074	-3.051
55	31	141.815	141.803	-0.012
55	32	155.473	155.203	-0.270
55	33	161.157	161.373	0.216
55	34	150.788	155.992	5.204
55	35	143.279	143.904	0.625
55	36	149.288	148.536	-0.752
55	37	144.525	144.137	-0.388
55	38	148.071	150.116	2.045
55	39	158.987	158.745	-0.242
55	40	148.277	150.589	2.312
55	41	155.522	157.799	2.277
55	42	153.760	154.945	1.185
50	43	147.189	149.183	1.994
50	44	146.568	145.831	-0.737
50	45	151.194	147.474	-3.720
50	46	152.642	155.810	3.168
50	47	153.405	154.943	1.538
Max		167.093	170.890	8.994
Average		151.252	151.939	0.686
Min		139.765	140.571	-8.615
Std Dev		6.422	6.797	2.634



8.14_EA_I_SOURCE_5V	
Test Site	
Tester	
Test Number	
Max Limit	190 uA
Min Limit	100 uA

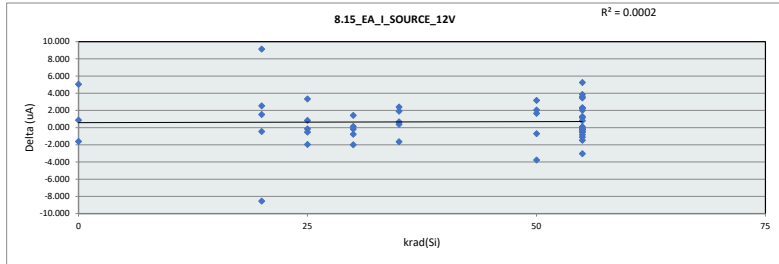
krad(Si)	0	20	25	30	35	50	55
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	149.381	145.236	144.688	146.825	140.571	145.831	140.780
Average	151.468	155.567	147.816	153.204	152.843	150.648	151.915
Max	154.992	163.248	150.839	166.114	165.840	155.810	170.890
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000



**HDR TID Report
TPS7H5005-SEP**

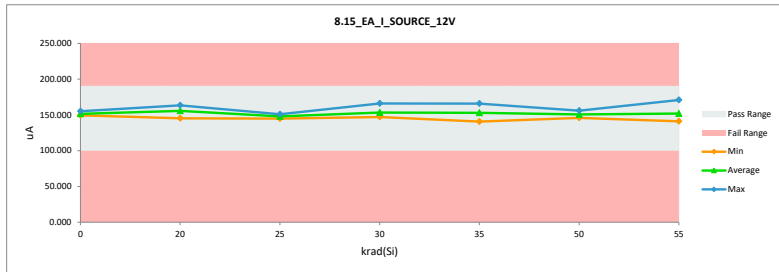
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.15_EA_I_SOURCE_12V	
Test Site	
Tester	
Test Number	
Unit	uA
Max Limit	190
Min Limit	100



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	151.088	149.456	-1.632
0	51	150.039	155.060	5.021
0	52	149.196	150.039	0.843
25	1	147.724	147.552	-0.172
25	2	147.656	148.478	0.822
25	3	151.472	150.933	-0.539
25	4	141.511	144.824	3.313
25	5	149.924	147.940	-1.984
20	6	161.005	152.438	-8.567
20	7	154.736	157.249	2.513
20	8	161.879	163.382	1.503
20	9	150.858	159.962	9.104
20	10	145.743	145.274	-0.469
35	11	142.337	140.675	-1.662
35	12	153.722	154.373	0.651
35	13	151.158	153.530	2.372
35	14	164.002	165.898	1.896
35	15	149.503	149.860	0.357
30	16	164.590	165.997	1.407
30	17	150.284	150.392	0.108
30	18	155.182	154.380	-0.802
30	19	150.549	148.538	-2.011
30	20	147.215	147.026	-0.189
55	21	164.478	163.342	-1.136
55	22	147.655	147.245	-0.410
55	23	149.798	153.352	3.554
55	24	148.350	147.813	-0.537
55	25	167.034	170.867	3.833
55	26	139.804	140.937	1.133
55	27	151.294	153.542	2.248
55	28	141.914	145.342	3.428
55	29	146.556	145.063	-1.493
55	30	155.154	152.104	-3.050
55	31	141.911	141.805	-0.106
55	32	155.563	155.332	-0.231
55	33	161.298	161.371	0.073
55	34	150.934	156.164	5.230
55	35	143.344	144.129	0.785
55	36	149.365	148.529	-0.836
55	37	144.709	144.167	-0.542
55	38	148.154	150.140	1.986
55	39	159.131	158.883	-0.248
55	40	148.404	150.699	2.295
55	41	155.595	157.841	2.246
55	42	153.720	154.992	1.272
50	43	147.241	149.257	2.016
50	44	146.682	145.956	-0.726
50	45	151.241	147.450	-3.791
50	46	152.803	155.952	3.149
50	47	153.417	155.055	1.638
	Max	167.034	170.867	9.104
	Average	151.338	152.012	0.673
	Min	139.804	140.675	-8.567
	Std Dev	6.402	6.771	2.639

8.15_EA_I_SOURCE_12V							
Test Site							
Tester							
Test Number							
Max Limit	190	uA					
Min Limit	100	uA					
krad(Si)	0	20	25	30	35	50	55
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	149.456	145.274	144.824	147.026	140.675	145.956	140.937
Average	151.518	155.661	147.945	153.267	152.867	150.734	151.985
Max	155.060	163.382	150.933	165.997	165.898	155.952	170.867
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000

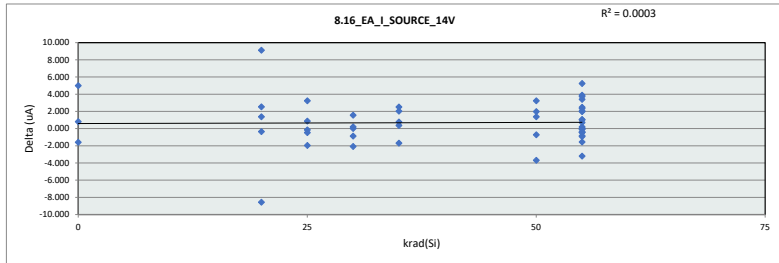


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.16_EA_I_SOURCE_14V

Test Site	
Tester	
Test Number	
Unit	uA
Max Limit	190
Min Limit	100

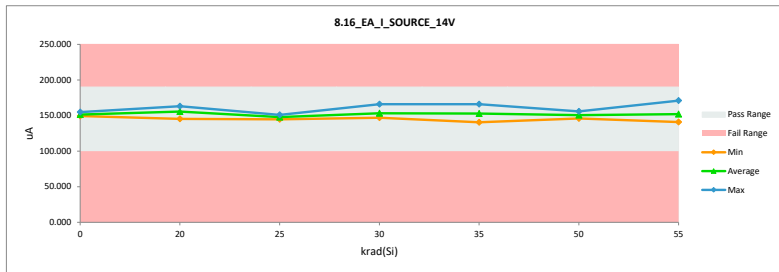


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	150.958	149.356	-1.602
0	51	149.913	154.901	4.988
0	52	149.113	149.913	0.800
25	1	147.554	147.388	-0.166
25	2	147.541	148.396	0.855
25	3	151.382	150.909	-0.473
25	4	141.455	144.689	3.234
25	5	149.791	147.828	-1.963
20	6	160.927	152.347	-8.580
20	7	154.723	157.251	2.528
20	8	161.829	163.196	1.367
20	9	150.762	159.871	9.109
20	10	145.738	145.378	-0.360
35	11	142.264	140.555	-1.709
35	12	153.534	154.300	0.766
35	13	151.001	153.510	2.509
35	14	163.949	165.964	2.015
35	15	149.398	149.752	0.354
30	16	164.468	166.011	1.543
30	17	150.178	150.369	0.191
30	18	155.132	154.248	-0.884
30	19	150.509	148.428	-2.081
30	20	146.979	146.986	0.007
55	21	164.305	163.374	-0.931
55	22	147.635	147.192	-0.443
55	23	149.682	153.403	3.721
55	24	148.163	147.717	-0.446
55	25	167.078	170.962	3.884
55	26	139.783	140.798	1.015
55	27	151.241	153.284	2.043
55	28	141.826	145.215	3.389
55	29	146.510	144.943	-1.567
55	30	155.112	151.894	-3.218
55	31	141.837	141.884	0.047
55	32	155.385	155.284	-0.101
55	33	161.135	161.328	0.193
55	34	150.808	156.037	5.229
55	35	143.300	143.988	0.688
55	36	149.295	148.440	-0.855
55	37	144.552	144.153	-0.399
55	38	148.091	150.054	1.963
55	39	158.969	158.901	-0.068
55	40	148.280	150.747	2.467
55	41	155.374	157.717	2.343
55	42	153.725	154.764	1.039
50	43	147.131	149.099	1.968
50	44	146.605	145.883	-0.722
50	45	151.212	147.523	-3.689
50	46	152.683	155.906	3.223
50	47	153.501	154.871	1.370
	Max	167.078	170.962	9.109
	Average	151.246	151.938	0.692
	Min	139.783	140.555	-8.580
	Std Dev	6.400	6.789	2.639

8.16_EA_I_SOURCE_14V

Test Site	
Tester	
Test Number	
Max Limit	190 uA
Min Limit	100 uA

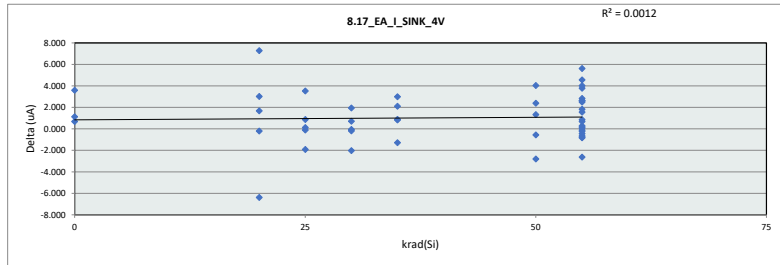
krad(Si)	0	20	25	30	35	50	55
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	149.356	145.378	144.689	146.986	140.555	145.883	140.798
Average	151.390	155.609	147.842	153.208	152.816	150.656	151.913
Max	154.901	163.196	150.909	166.011	165.964	155.906	170.962
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000



**HDR TID Report
TPS7H5005-SEP**

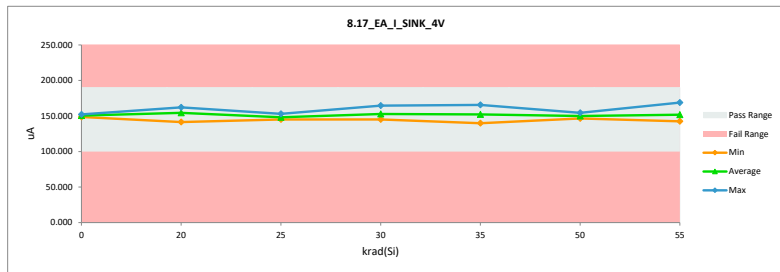
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

8.17_EA_I_SINK_4V	
Test Site	
Tester	
Test Number	
Unit	uA
Max Limit	190
Min Limit	100



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	149.908	151.023	1.115
0	51	148.660	152.250	3.590
0	52	147.990	148.660	0.670
25	1	146.222	146.331	0.109
25	2	146.469	147.335	0.866
25	3	153.082	152.970	-0.112
25	4	141.629	145.143	3.514
25	5	151.186	149.262	-1.924
20	6	158.388	151.991	-6.397
20	7	156.215	159.222	3.007
20	8	160.414	162.083	1.669
20	9	150.309	157.584	7.275
20	10	141.605	141.394	-0.211
35	11	141.138	139.835	-1.303
35	12	150.126	151.001	0.875
35	13	151.671	154.658	2.987
35	14	163.486	165.584	2.098
35	15	149.055	149.876	0.821
30	16	162.629	164.565	1.936
30	17	149.502	150.203	0.701
30	18	153.009	152.818	-0.191
30	19	153.752	151.717	-2.035
30	20	145.286	145.227	-0.059
55	21	163.495	162.719	-0.776
55	22	147.567	147.435	-0.132
55	23	146.214	150.234	4.020
55	24	146.198	145.743	-0.455
55	25	164.331	168.887	4.556
55	26	140.740	142.553	1.813
55	27	148.893	151.711	2.818
55	28	143.438	147.205	3.767
55	29	144.228	143.381	-0.847
55	30	155.854	153.214	-2.640
55	31	143.152	143.427	0.275
55	32	153.918	153.996	0.078
55	33	162.071	162.740	0.669
55	34	150.194	155.808	5.614
55	35	143.035	143.883	0.848
55	36	148.122	147.453	-0.669
55	37	146.610	146.378	-0.232
55	38	147.072	149.679	2.607
55	39	158.605	158.768	0.163
55	40	147.636	150.127	2.491
55	41	154.733	157.356	2.623
55	42	153.924	155.465	1.541
50	43	145.519	147.898	2.379
50	44	147.273	146.706	-0.567
50	45	149.445	146.631	-2.814
50	46	150.465	154.492	4.027
50	47	153.032	154.357	1.325
	Max	164.331	168.887	7.275
	Average	150.550	151.580	1.030
	Min	140.740	139.835	-6.397
	Std Dev	6.244	6.579	2.335

8.17_EA_I_SINK_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	190	uA						
Min Limit	100	uA						
krad(Si)								
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	148.660	141.394	145.143	145.227	139.835	146.631	142.553	142.553
Average	150.644	154.455	148.208	152.906	152.191	150.017	151.735	151.735
Max	152.250	162.083	152.970	164.565	165.584	154.492	168.887	168.887
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000

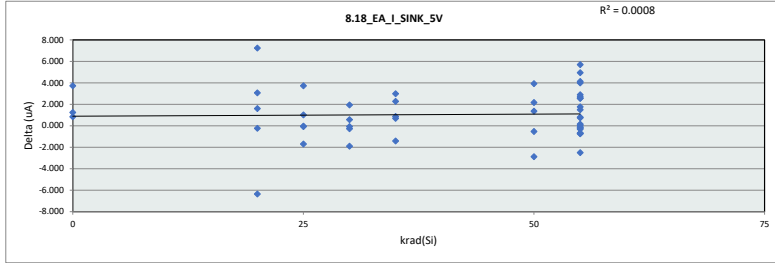


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

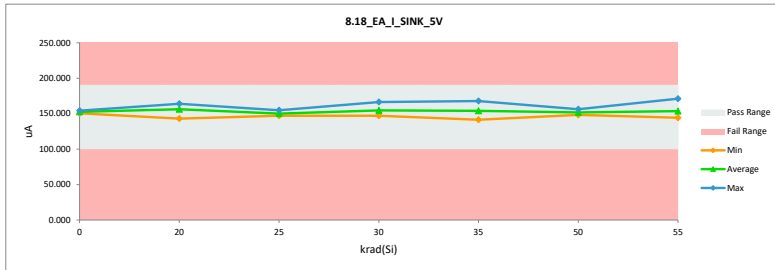
8.18_EA_I_SINK_5V	
Test Site	
Tester	
Test Number	
Unit	uA uA
Max Limit	190 190
Min Limit	100 100

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	151.590	152.816	1.226
0	51	150.554	154.268	3.714
0	52	149.729	150.554	0.825
25	1	148.065	148.029	-0.036
25	2	148.337	149.342	1.005
25	3	154.850	154.768	-0.082
25	4	143.312	147.027	3.715
25	5	152.982	151.273	-1.709
20	6	160.166	153.806	-6.360
20	7	157.976	161.033	3.057
20	8	162.409	164.009	1.600
20	9	152.188	159.419	7.231
20	10	143.353	143.111	-0.242
35	11	142.883	141.461	-1.422
35	12	152.006	152.690	0.684
35	13	153.547	156.521	2.974
35	14	165.495	167.759	2.264
35	15	150.722	151.585	0.863
30	16	164.394	166.325	1.931
30	17	151.380	151.935	0.555
30	18	154.775	154.493	-0.282
30	19	155.580	153.666	-1.914
30	20	147.211	147.125	-0.086
55	21	165.395	164.688	-0.707
55	22	149.361	149.159	-0.202
55	23	147.890	152.002	4.112
55	24	147.961	147.640	-0.321
55	25	166.255	171.186	4.931
55	26	142.494	144.244	1.750
55	27	150.736	153.614	2.878
55	28	145.165	149.148	3.983
55	29	145.922	145.174	-0.748
55	30	157.652	155.141	-2.511
55	31	145.015	145.155	0.140
55	32	155.958	155.854	-0.104
55	33	163.955	164.747	0.792
55	34	152.070	157.758	5.688
55	35	144.642	145.382	0.740
55	36	149.852	149.160	-0.692
55	37	148.288	148.073	-0.215
55	38	148.843	151.389	2.546
55	39	160.585	160.640	0.055
55	40	149.402	152.092	2.690
55	41	156.360	158.924	2.564
55	42	155.718	157.210	1.492
50	43	147.540	149.697	2.157
50	44	149.086	148.542	-0.544
50	45	151.144	148.254	-2.890
50	46	152.373	156.287	3.914
50	47	154.862	156.218	1.356
Max		166.255	171.186	7.231
Average		152.361	153.408	1.047
Min		142.494	141.461	-6.360
Std Dev		6.288	6.658	2.354



8.18_EA_I_SINK_5V	
Test Site	
Tester	
Test Number	
Max Limit	190 uA
Min Limit	100 uA

krad(Si)	0	20	25	30	35	50	55
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	150.554	143.111	147.027	147.125	141.461	148.254	144.244
Average	152.546	156.276	150.088	154.709	154.003	151.800	153.563
Max	154.268	164.009	154.768	166.325	167.759	156.287	171.186
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000

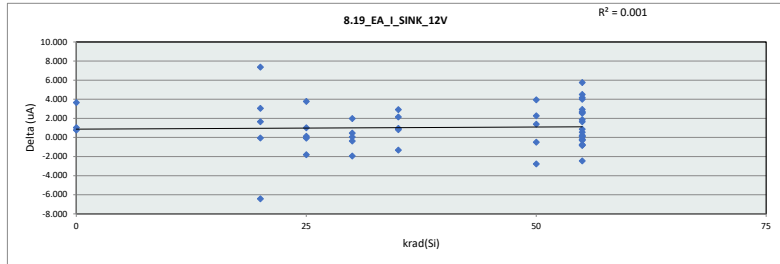


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

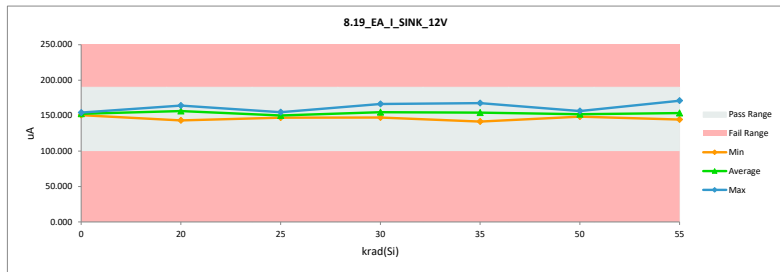
8.19_EA_I_SINK_12V	
Test Site	
Tester	
Test Number	
Unit	uA
Max Limit	190
Min Limit	100

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	151.847	152.872	1.025
0	51	150.645	154.282	3.637
0	52	149.877	150.645	0.768
25	1	148.090	148.202	0.112
25	2	148.412	149.419	1.007
25	3	154.937	154.859	-0.078
25	4	143.406	147.174	3.768
25	5	153.096	151.284	-1.812
20	6	160.289	153.857	-6.432
20	7	158.076	161.121	3.045
20	8	162.554	164.193	1.639
20	9	152.269	159.617	7.348
20	10	143.365	143.294	-0.071
35	11	142.930	141.587	-1.343
35	12	152.038	152.975	0.937
35	13	153.707	156.614	2.907
35	14	165.565	167.697	2.132
35	15	150.848	151.662	0.814
30	16	164.445	166.415	1.970
30	17	151.482	151.933	0.451
30	18	154.918	154.526	-0.392
30	19	155.613	153.660	-1.953
30	20	147.264	147.301	0.037
55	21	165.447	164.611	-0.836
55	22	149.508	149.306	-0.202
55	23	147.942	152.095	4.153
55	24	148.053	147.806	-0.247
55	25	166.485	170.969	4.484
55	26	142.518	144.363	1.845
55	27	150.840	153.756	2.916
55	28	145.300	149.291	3.991
55	29	146.075	145.266	-0.809
55	30	157.696	155.228	-2.468
55	31	145.074	145.270	0.196
55	32	155.962	156.075	0.113
55	33	164.230	164.763	0.533
55	34	152.145	157.880	5.735
55	35	144.806	145.654	0.848
55	36	149.960	149.204	-0.756
55	37	148.434	148.130	-0.304
55	38	148.916	151.449	2.533
55	39	160.663	160.763	0.100
55	40	149.526	152.141	2.615
55	41	156.401	159.081	2.680
55	42	155.682	157.313	1.631
50	43	147.596	149.845	2.249
50	44	149.217	148.717	-0.500
50	45	151.290	148.499	-2.791
50	46	152.523	156.453	3.930
50	47	154.947	156.326	1.379
Max		166.485	170.969	7.348
Average		152.458	153.509	1.051
Min		142.518	141.587	-6.432
Std Dev		6.298	6.616	2.351



8.19_EA_I_SINK_12V	
Test Site	
Tester	
Test Number	
Max Limit	190 uA
Min Limit	100 uA

krad(Si)	0	20	25	30	35	50	55
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	150.645	143.294	147.174	147.301	141.587	148.499	144.363
Average	152.600	156.416	150.188	154.767	154.107	151.968	153.655
Max	154.282	164.193	154.859	166.415	167.697	156.453	170.969
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000

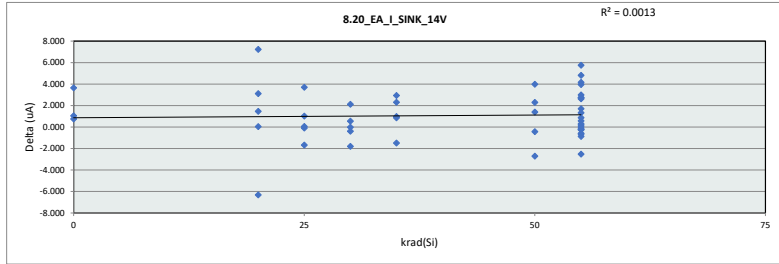


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

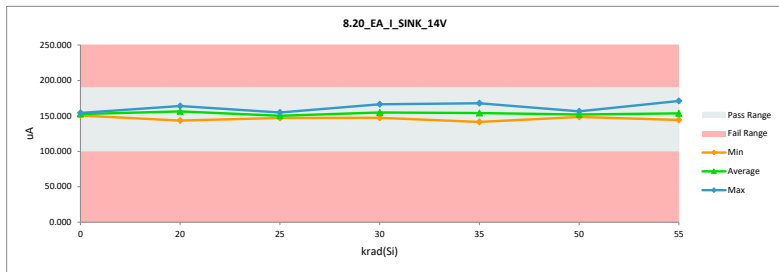
8.20_EA_I_SINK_14V	
Test Site	
Tester	
Test Number	
Unit	uA uA
Max Limit	190 190
Min Limit	100 100

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	151.753	152.779	1.026
0	51	150.518	154.155	3.637
0	52	149.775	150.518	0.743
25	1	148.022	148.056	0.034
25	2	148.387	149.396	1.009
25	3	154.901	154.797	-0.104
25	4	143.349	147.031	3.682
25	5	153.102	151.407	-1.695
20	6	160.149	153.825	-6.324
20	7	157.965	161.066	3.101
20	8	162.478	163.927	1.449
20	9	152.258	159.470	7.212
20	10	143.323	143.350	0.027
35	11	142.950	141.452	-1.498
35	12	151.945	152.914	0.969
35	13	153.601	156.525	2.924
35	14	165.461	167.755	2.294
35	15	150.782	151.630	0.848
30	16	164.311	166.416	2.105
30	17	151.329	151.869	0.540
30	18	154.945	154.545	-0.400
30	19	155.496	153.686	-1.810
30	20	147.297	147.266	-0.031
55	21	165.331	164.721	-0.610
55	22	149.446	149.205	-0.241
55	23	147.914	152.051	4.137
55	24	147.966	147.693	-0.273
55	25	166.224	171.027	4.803
55	26	142.507	144.200	1.693
55	27	150.761	153.738	2.977
55	28	145.252	149.192	3.940
55	29	146.037	145.152	-0.885
55	30	157.743	155.214	-2.529
55	31	145.081	145.366	0.285
55	32	155.888	155.886	-0.002
55	33	164.100	164.664	0.564
55	34	152.050	157.789	5.739
55	35	144.702	145.554	0.852
55	36	149.901	149.228	-0.673
55	37	148.340	148.162	-0.178
55	38	148.885	151.497	2.612
55	39	160.457	160.633	0.176
55	40	149.440	152.174	2.734
55	41	156.299	159.008	2.709
55	42	155.732	157.045	1.313
50	43	147.586	149.863	2.277
50	44	149.094	148.650	-0.444
50	45	151.210	148.482	-2.728
50	46	152.421	156.389	3.968
50	47	154.716	156.098	1.382
	Max	166.224	171.027	7.212
	Average	152.384	153.450	1.067
	Min	142.507	141.452	-6.324
	Std Dev	6.267	6.618	2.341



8.20_EA_I_SINK_14V	
Test Site	
Tester	
Test Number	
Max Limit	190 uA
Min Limit	100 uA

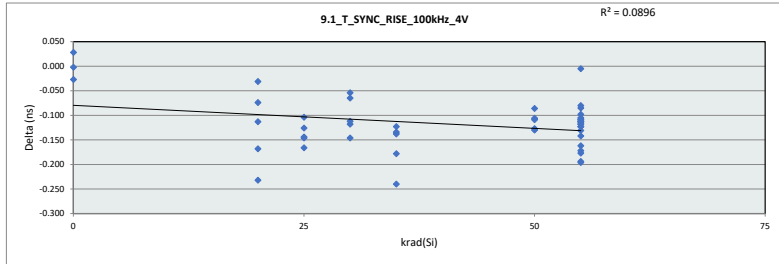
krad(Si)	0	20	25	30	35	50	55
LL	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Min	150.518	143.350	147.031	147.266	141.452	148.482	144.200
Average	152.484	156.328	150.137	154.756	154.055	151.896	153.600
Max	154.155	163.927	154.797	166.416	167.755	156.389	171.027
UL	190.000	190.000	190.000	190.000	190.000	190.000	190.000



**HDR TID Report
TPS7H5005-SEP**

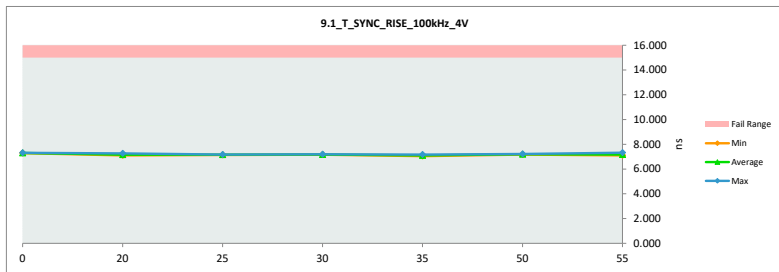
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.1_T_SYNC_RISE_100kHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	15
Min Limit	15



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.307	7.305	-0.002
0	51	7.313	7.286	-0.027
0	52	7.285	7.313	0.028
25	1	7.279	7.175	-0.104
25	2	7.281	7.137	-0.144
25	3	7.316	7.150	-0.166
25	4	7.316	7.170	-0.146
25	5	7.276	7.150	-0.126
20	6	7.269	7.156	-0.113
20	7	7.285	7.117	-0.168
20	8	7.293	7.262	-0.031
20	9	7.252	7.178	-0.074
20	10	7.332	7.100	-0.232
35	11	7.240	7.062	-0.178
35	12	7.282	7.042	-0.240
35	13	7.254	7.131	-0.123
35	14	7.302	7.168	-0.134
35	15	7.246	7.108	-0.138
30	16	7.269	7.157	-0.112
30	17	7.256	7.191	-0.065
30	18	7.316	7.170	-0.146
30	19	7.309	7.191	-0.118
30	20	7.221	7.167	-0.054
55	21	7.292	7.150	-0.142
55	22	7.283	7.198	-0.085
55	23	7.281	7.169	-0.112
55	24	7.318	7.195	-0.123
55	25	7.255	7.150	-0.105
55	26	7.261	7.163	-0.098
55	27	7.300	7.192	-0.108
55	28	7.283	7.165	-0.118
55	29	7.308	7.193	-0.115
55	30	7.289	7.209	-0.080
55	31	7.337	7.175	-0.162
55	32	7.305	7.187	-0.118
55	33	7.309	7.178	-0.131
55	34	7.300	7.192	-0.108
55	35	7.304	7.192	-0.112
55	36	7.324	7.319	-0.005
55	37	7.287	7.115	-0.172
55	38	7.292	7.098	-0.194
55	39	7.311	7.199	-0.112
55	40	7.300	7.177	-0.123
55	41	7.293	7.097	-0.196
55	42	7.317	7.140	-0.177
50	43	7.298	7.192	-0.106
50	44	7.339	7.212	-0.127
50	45	7.316	7.186	-0.130
50	46	7.279	7.170	-0.109
50	47	7.294	7.208	-0.086
	Max	7.339	7.319	0.028
	Average	7.291	7.174	-0.117
	Min	7.221	7.042	-0.240
	Std Dev	0.025	0.056	0.053

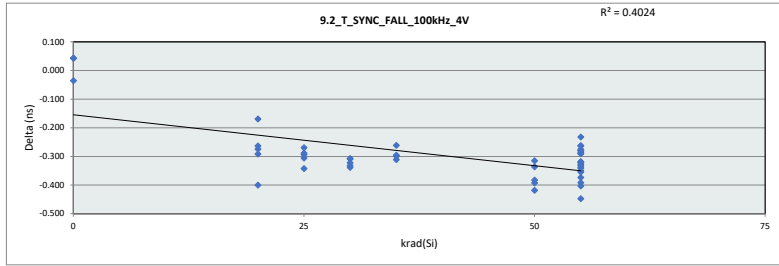
9.1_T_SYNC_RISE_100kHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
LL								
Min	7.286	7.100	7.137	7.157	7.042	7.170	7.097	
Average	7.301	7.163	7.156	7.175	7.102	7.194	7.175	
Max	7.313	7.262	7.175	7.191	7.168	7.212	7.319	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	



**HDR TID Report
TPS7H5005-SEP**

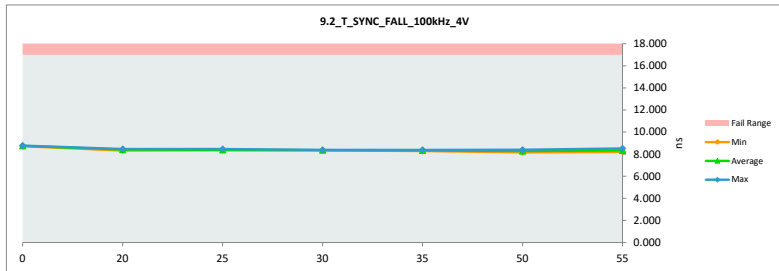
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.2_T_SYNC_FALL_100kHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.732	8.775	0.043
0	51	8.759	8.723	-0.036
0	52	8.717	8.759	0.042
25	1	8.700	8.357	-0.343
25	2	8.767	8.461	-0.306
25	3	8.650	8.356	-0.294
25	4	8.650	8.380	-0.270
25	5	8.690	8.401	-0.289
20	6	8.730	8.329	-0.401
20	7	8.736	8.461	-0.275
20	8	8.730	8.466	-0.264
20	9	8.617	8.447	-0.170
20	10	8.633	8.341	-0.292
35	11	8.580	8.284	-0.296
35	12	8.652	8.340	-0.312
35	13	8.627	8.328	-0.299
35	14	8.648	8.349	-0.299
35	15	8.645	8.383	-0.262
30	16	8.654	8.346	-0.308
30	17	8.682	8.343	-0.339
30	18	8.705	8.382	-0.323
30	19	8.720	8.387	-0.333
30	20	8.641	8.332	-0.309
55	21	8.692	8.371	-0.321
55	22	8.668	8.388	-0.280
55	23	8.676	8.357	-0.319
55	24	8.664	8.342	-0.322
55	25	8.667	8.377	-0.290
55	26	8.673	8.410	-0.263
55	27	8.807	8.516	-0.291
55	28	8.639	8.375	-0.264
55	29	8.632	8.399	-0.233
55	30	8.696	8.420	-0.276
55	31	8.749	8.421	-0.328
55	32	8.694	8.320	-0.374
55	33	8.596	8.316	-0.280
55	34	8.632	8.290	-0.342
55	35	8.604	8.266	-0.338
55	36	8.604	8.212	-0.392
55	37	8.867	8.512	-0.355
55	38	8.680	8.329	-0.351
55	39	8.730	8.282	-0.448
55	40	8.563	8.231	-0.332
55	41	8.601	8.315	-0.286
55	42	8.625	8.221	-0.404
50	43	8.542	8.159	-0.383
50	44	8.609	8.216	-0.393
50	45	8.638	8.322	-0.316
50	46	8.736	8.399	-0.337
50	47	8.742	8.323	-0.419
	Max	8.867	8.775	0.043
	Average	8.674	8.376	-0.297
	Min	8.542	8.159	-0.448
	Std Dev	0.063	0.121	0.095

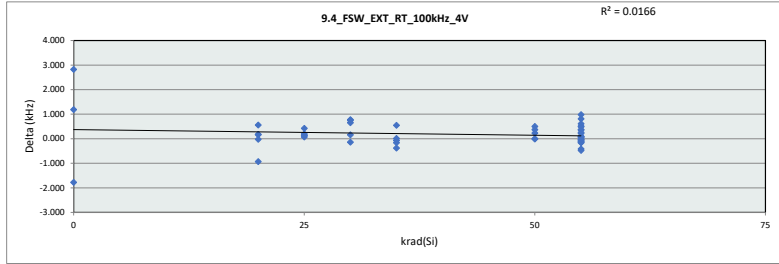
9.2_T_SYNC_FALL_100kHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit		ns						
LL								
Min	8.723	8.329	8.356	8.332	8.284	8.159	8.212	
Average	8.752	8.409	8.391	8.358	8.337	8.284	8.349	
Max	8.775	8.466	8.461	8.387	8.383	8.399	8.516	
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

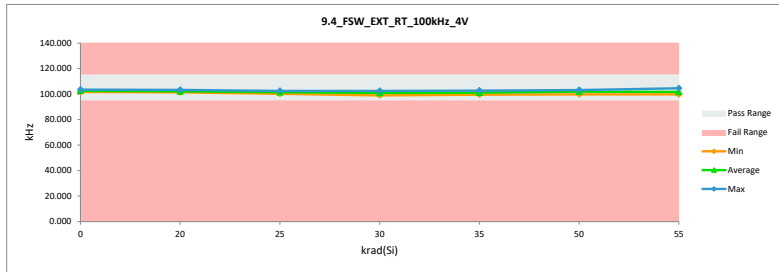
9.4_FSW_EXT_RT_100kHz_4V	
Test Site	
Tester	
Test Number	
Unit	kHz kHz
Max Limit	115 115
Min Limit	95 95



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.347	102.528	1.181
0	51	103.502	101.715	-1.787
0	52	100.689	103.502	2.813
25	1	101.282	101.345	0.063
25	2	100.190	100.305	0.115
25	3	100.854	101.043	0.189
25	4	102.072	102.207	0.135
25	5	102.153	102.567	0.414
20	6	102.343	101.405	-0.938
20	7	102.073	102.042	-0.031
20	8	103.184	103.343	0.159
20	9	101.495	102.045	0.550
20	10	101.594	101.764	0.170
35	11	99.522	99.525	0.003
35	12	103.025	102.640	-0.385
35	13	102.220	102.758	0.538
35	14	100.013	99.845	-0.168
35	15	100.912	100.837	-0.075
30	16	101.053	101.203	0.150
30	17	99.119	98.974	-0.145
30	18	101.037	101.679	0.642
30	19	99.516	100.282	0.766
30	20	101.748	102.494	0.746
55	21	100.308	100.810	0.502
55	22	101.620	101.590	-0.030
55	23	104.733	104.594	-0.139
55	24	102.160	101.988	-0.172
55	25	101.093	101.442	0.349
55	26	99.279	99.880	0.601
55	27	100.067	100.140	0.073
55	28	100.503	100.079	-0.424
55	29	101.585	101.484	-0.101
55	30	104.272	104.359	0.087
55	31	101.448	101.810	0.362
55	32	102.876	103.087	0.211
55	33	99.963	99.999	0.036
55	34	102.677	102.922	0.245
55	35	101.580	101.644	0.064
55	36	100.604	100.535	-0.069
55	37	102.906	102.871	-0.035
55	38	101.805	102.608	0.803
55	39	102.258	103.233	0.975
55	40	101.588	101.104	-0.484
55	41	99.288	99.767	0.479
55	42	102.690	102.552	-0.138
50	43	103.177	103.167	-0.010
50	44	101.958	102.323	0.365
50	45	102.245	102.469	0.224
50	46	99.267	99.760	0.493
50	47	102.214	102.200	-0.014
	Max	104.733	104.594	2.813
	Average	101.502	101.689	0.187
	Min	99.119	98.974	-1.787
	Std Dev	1.306	1.283	0.607

9.4_FSW_EXT_RT_100kHz_4V	
Test Site	
Tester	
Test Number	
Max Limit	115 kHz
Min Limit	95 kHz

krad(Si)	0	20	25	30	35	50	55
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	101.715	101.405	100.305	98.974	99.525	99.760	99.767
Average	102.582	102.120	101.493	100.926	101.121	101.984	101.750
Max	103.502	103.343	102.567	102.494	102.758	103.167	104.594
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000



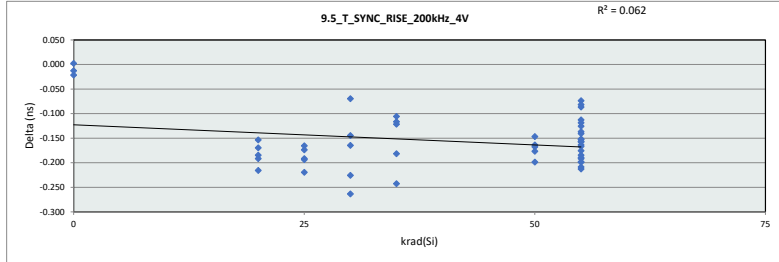
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.5_T_SYNC_RISE_200kHz_4V

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

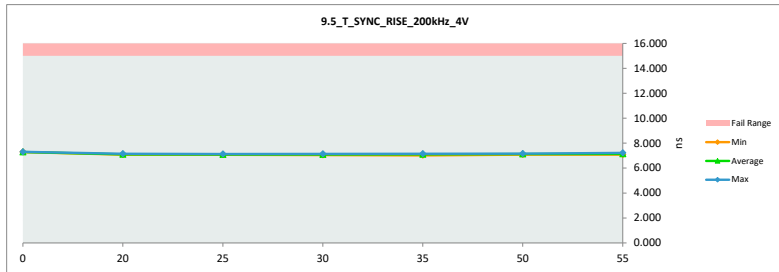
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.297	7.284	-0.013
0	51	7.305	7.283	-0.022
0	52	7.303	7.305	0.002
25	1	7.292	7.072	-0.220
25	2	7.281	7.107	-0.174
25	3	7.297	7.105	-0.192
25	4	7.295	7.129	-0.166
25	5	7.266	7.072	-0.194
20	6	7.290	7.098	-0.192
20	7	7.270	7.085	-0.185
20	8	7.305	7.151	-0.154
20	9	7.322	7.106	-0.216
20	10	7.260	7.090	-0.170
35	11	7.227	7.110	-0.117
35	12	7.260	7.017	-0.243
35	13	7.276	7.154	-0.122
35	14	7.274	7.092	-0.182
35	15	7.231	7.125	-0.106
30	16	7.250	7.105	-0.145
30	17	7.269	7.043	-0.226
30	18	7.304	7.139	-0.165
30	19	7.314	7.050	-0.264
30	20	7.192	7.122	-0.070
55	21	7.279	7.127	-0.152
55	22	7.241	7.104	-0.137
55	23	7.262	7.136	-0.126
55	24	7.310	7.118	-0.192
55	25	7.245	7.163	-0.082
55	26	7.270	7.196	-0.074
55	27	7.305	7.164	-0.141
55	28	7.258	7.145	-0.113
55	29	7.300	7.136	-0.164
55	30	7.285	7.132	-0.153
55	31	7.309	7.152	-0.157
55	32	7.304	7.217	-0.087
55	33	7.309	7.151	-0.158
55	34	7.306	7.139	-0.167
55	35	7.324	7.115	-0.209
55	36	7.301	7.102	-0.199
55	37	7.298	7.122	-0.176
55	38	7.297	7.084	-0.213
55	39	7.320	7.130	-0.190
55	40	7.306	7.107	-0.199
55	41	7.316	7.131	-0.185
55	42	7.308	7.189	-0.119
50	43	7.274	7.127	-0.147
50	44	7.322	7.145	-0.177
50	45	7.326	7.162	-0.164
50	46	7.288	7.120	-0.168
50	47	7.278	7.079	-0.199
	Max	7.326	7.305	0.002
	Average	7.286	7.131	-0.156
	Min	7.192	7.017	-0.264
	Std Dev	0.028	0.055	0.056



9.5_T_SYNC_RISE_200kHz_4V

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

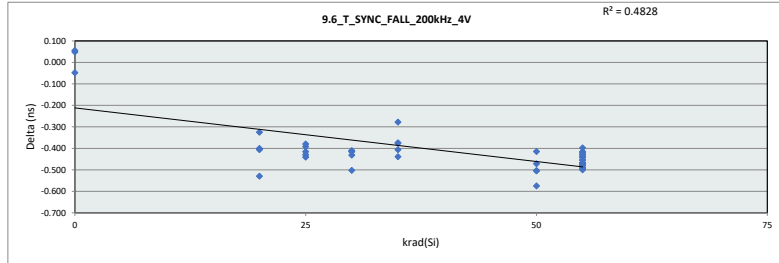
krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.283	7.085	7.072	7.043	7.017	7.079	7.084
Average	7.291	7.106	7.097	7.092	7.100	7.127	7.139
Max	7.305	7.151	7.129	7.139	7.154	7.162	7.217
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000



**HDR TID Report
TPS7H5005-SEP**

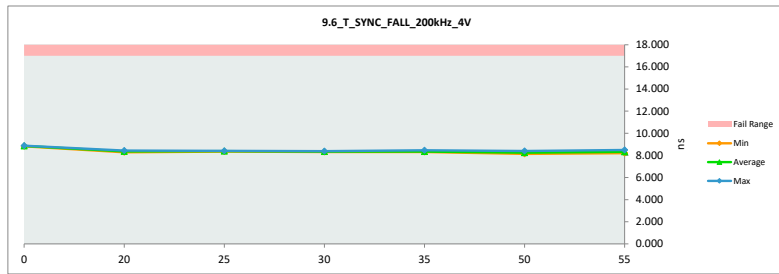
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.6_T_SYNC_FALL_200kHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.828	8.876	0.048
0	51	8.868	8.820	-0.048
0	52	8.813	8.868	0.055
25	1	8.788	8.358	-0.430
25	2	8.856	8.415	-0.441
25	3	8.755	8.339	-0.416
25	4	8.759	8.367	-0.392
25	5	8.787	8.407	-0.380
20	6	8.804	8.274	-0.530
20	7	8.836	8.430	-0.406
20	8	8.811	8.410	-0.401
20	9	8.708	8.383	-0.325
20	10	8.721	8.317	-0.404
35	11	8.677	8.301	-0.376
35	12	8.742	8.464	-0.278
35	13	8.713	8.338	-0.375
35	14	8.739	8.333	-0.406
35	15	8.742	8.303	-0.439
30	16	8.748	8.316	-0.432
30	17	8.776	8.360	-0.416
30	18	8.793	8.382	-0.411
30	19	8.812	8.309	-0.503
30	20	8.746	8.332	-0.414
55	21	8.786	8.316	-0.470
55	22	8.775	8.297	-0.478
55	23	8.766	8.299	-0.467
55	24	8.751	8.307	-0.444
55	25	8.759	8.343	-0.416
55	26	8.774	8.376	-0.398
55	27	8.919	8.491	-0.428
55	28	8.741	8.322	-0.419
55	29	8.740	8.312	-0.428
55	30	8.788	8.334	-0.454
55	31	8.855	8.386	-0.469
55	32	8.784	8.284	-0.500
55	33	8.699	8.262	-0.437
55	34	8.729	8.290	-0.439
55	35	8.707	8.212	-0.495
55	36	8.697	8.228	-0.469
55	37	8.965	8.486	-0.479
55	38	8.787	8.299	-0.488
55	39	8.815	8.337	-0.478
55	40	8.657	8.201	-0.456
55	41	8.705	8.228	-0.477
55	42	8.718	8.280	-0.438
50	43	8.640	8.135	-0.505
50	44	8.686	8.182	-0.504
50	45	8.739	8.267	-0.472
50	46	8.814	8.399	-0.415
50	47	8.824	8.249	-0.575
Max		8.965	8.876	0.055
Average		8.769	8.356	-0.412
Min		8.640	8.135	-0.575
Std Dev		0.063	0.146	0.121

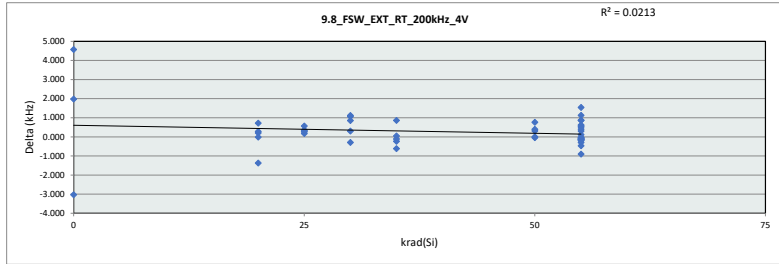
9.6_T_SYNC_FALL_200kHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	ns							
LL								
Min	8.820	8.274	8.339	8.309	8.301	8.135	8.201	
Average	8.855	8.363	8.377	8.340	8.348	8.246	8.313	
Max	8.876	8.430	8.415	8.382	8.464	8.399	8.491	
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	



**HDR TID Report
TPS7H5005-SEP**

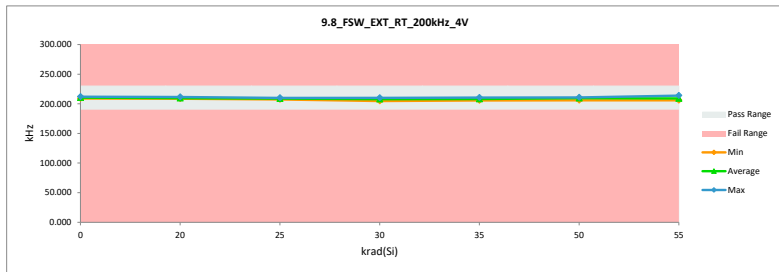
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.8_FSW_EXT_RT_200kHz_4V	
Test Site	
Tester	
Test Number	
Unit	kHz
Max Limit	230
Min Limit	190



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	208.492	210.465	1.973
0	51	211.964	208.932	-3.032
0	52	207.399	211.964	4.565
25	1	208.315	208.488	0.173
25	2	207.147	207.452	0.305
25	3	207.588	207.938	0.350
25	4	209.591	209.855	0.264
25	5	209.379	209.945	0.566
20	6	210.028	208.654	-1.374
20	7	209.478	209.461	-0.017
20	8	211.293	211.495	0.202
20	9	208.836	209.553	0.717
20	10	208.511	208.784	0.273
35	11	205.609	205.650	0.041
35	12	211.040	210.421	-0.619
35	13	209.662	210.521	0.859
35	14	206.544	206.305	-0.239
35	15	207.811	207.698	-0.113
30	16	208.415	208.714	0.299
30	17	204.978	204.684	-0.294
30	18	207.623	208.475	0.852
30	19	205.821	206.933	1.112
30	20	209.021	210.082	1.061
55	21	206.475	207.331	0.856
55	22	209.155	208.859	-0.296
55	23	213.953	213.808	-0.145
55	24	209.290	209.098	-0.192
55	25	208.261	208.880	0.619
55	26	204.976	205.842	0.866
55	27	206.891	206.849	-0.042
55	28	207.128	206.219	-0.909
55	29	208.566	208.447	-0.119
55	30	212.987	213.100	0.113
55	31	208.617	209.124	0.507
55	32	211.219	211.614	0.395
55	33	206.524	206.403	-0.121
55	34	210.404	210.700	0.296
55	35	208.743	208.703	-0.040
55	36	207.453	207.334	-0.119
55	37	210.746	210.645	-0.101
55	38	209.095	210.219	1.124
55	39	209.709	211.248	1.539
55	40	208.427	207.955	-0.472
55	41	205.250	205.812	0.562
55	42	210.478	210.299	-0.179
50	43	210.734	210.685	-0.049
50	44	209.482	209.791	0.309
50	45	210.103	210.493	0.390
50	46	205.229	205.988	0.759
50	47	210.521	210.520	-0.001
Max		213.953	213.808	4.565
Average		208.699	208.969	0.269
Min		204.976	204.684	-3.032
Std Dev		2.025	2.001	0.972

9.8_FSW_EXT_RT_200kHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	230	kHz						
Min Limit	190	kHz						
krad(Si)								
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	208.932	208.654	207.452	204.684	205.650	205.988	205.812	205.812
Average	210.454	209.589	208.736	207.778	208.119	209.495	209.022	209.022
Max	211.964	211.495	209.945	210.082	210.521	210.685	213.808	213.808
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

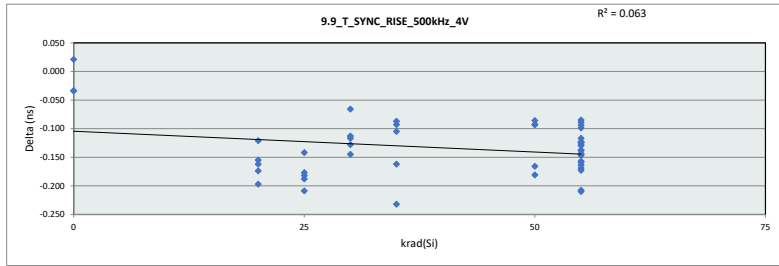


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.9_T_SYNC_RISE_500kHz_4V

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

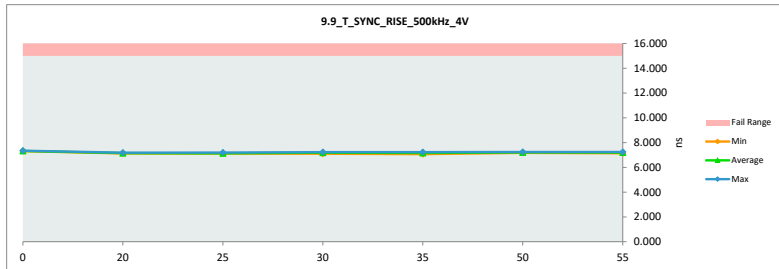


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.346	7.312	-0.034
0	51	7.344	7.310	-0.034
0	52	7.323	7.344	0.021
25	1	7.300	7.112	-0.188
25	2	7.295	7.118	-0.177
25	3	7.330	7.121	-0.209
25	4	7.335	7.193	-0.142
25	5	7.299	7.117	-0.182
20	6	7.322	7.125	-0.197
20	7	7.305	7.184	-0.121
20	8	7.321	7.159	-0.162
20	9	7.299	7.144	-0.155
20	10	7.319	7.145	-0.174
35	11	7.247	7.154	-0.093
35	12	7.299	7.067	-0.232
35	13	7.309	7.222	-0.087
35	14	7.324	7.219	-0.105
35	15	7.276	7.114	-0.162
30	16	7.304	7.159	-0.145
30	17	7.264	7.198	-0.066
30	18	7.341	7.224	-0.117
30	19	7.346	7.233	-0.113
30	20	7.228	7.100	-0.128
55	21	7.312	7.174	-0.138
55	22	7.317	7.170	-0.147
55	23	7.313	7.219	-0.094
55	24	7.343	7.135	-0.208
55	25	7.305	7.206	-0.099
55	26	7.302	7.175	-0.127
55	27	7.336	7.219	-0.117
55	28	7.299	7.214	-0.085
55	29	7.330	7.186	-0.144
55	30	7.331	7.242	-0.089
55	31	7.363	7.239	-0.124
55	32	7.360	7.222	-0.138
55	33	7.342	7.212	-0.130
55	34	7.316	7.157	-0.159
55	35	7.360	7.150	-0.210
55	36	7.345	7.222	-0.123
55	37	7.325	7.168	-0.157
55	38	7.324	7.151	-0.173
55	39	7.333	7.189	-0.144
55	40	7.331	7.207	-0.124
55	41	7.347	7.178	-0.169
55	42	7.330	7.166	-0.164
50	43	7.313	7.227	-0.086
50	44	7.351	7.170	-0.181
50	45	7.338	7.245	-0.093
50	46	7.302	7.209	-0.093
50	47	7.333	7.167	-0.166
	Max	7.363	7.344	0.021
	Average	7.320	7.186	-0.134
	Min	7.228	7.067	-0.232
	Std Dev	0.027	0.054	0.049

9.9_T_SYNC_RISE_500kHz_4V

Test Site	
Tester	
Test Number	
Max Limit	15
Min Limit	ns

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.310	7.125	7.112	7.100	7.067	7.167	7.135
Average	7.322	7.151	7.132	7.183	7.155	7.204	7.191
Max	7.344	7.184	7.193	7.233	7.222	7.245	7.242
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000

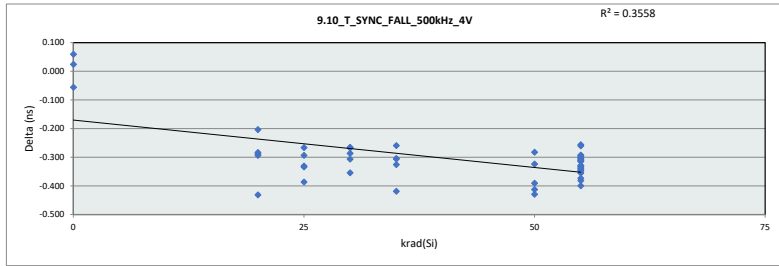


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.10_T_SYNC_FALL_500kHz_4V

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

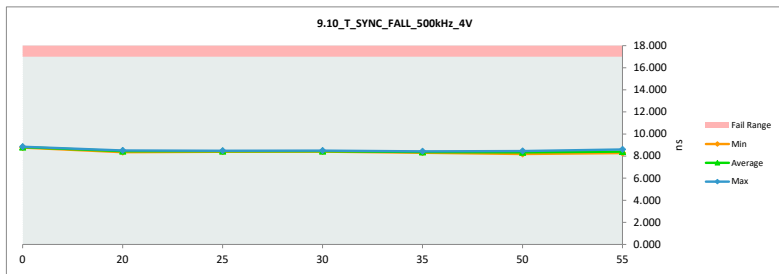


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.823	8.847	0.024
0	51	8.827	8.771	-0.056
0	52	8.768	8.827	0.059
25	1	8.768	8.434	-0.334
25	2	8.839	8.452	-0.387
25	3	8.721	8.390	-0.331
25	4	8.727	8.433	-0.294
25	5	8.755	8.488	-0.267
20	6	8.781	8.349	-0.432
20	7	8.808	8.514	-0.294
20	8	8.780	8.496	-0.284
20	9	8.670	8.466	-0.204
20	10	8.701	8.412	-0.289
35	11	8.642	8.337	-0.305
35	12	8.718	8.299	-0.419
35	13	8.688	8.428	-0.260
35	14	8.709	8.383	-0.326
35	15	8.715	8.409	-0.306
30	16	8.713	8.406	-0.307
30	17	8.725	8.457	-0.268
30	18	8.768	8.413	-0.355
30	19	8.767	8.501	-0.266
30	20	8.721	8.434	-0.287
55	21	8.756	8.450	-0.306
55	22	8.731	8.357	-0.374
55	23	8.728	8.415	-0.313
55	24	8.697	8.363	-0.334
55	25	8.735	8.428	-0.307
55	26	8.757	8.442	-0.315
55	27	8.888	8.577	-0.311
55	28	8.706	8.413	-0.293
55	29	8.698	8.437	-0.261
55	30	8.751	8.451	-0.300
55	31	8.827	8.427	-0.400
55	32	8.732	8.432	-0.300
55	33	8.650	8.321	-0.329
55	34	8.698	8.403	-0.295
55	35	8.678	8.337	-0.341
55	36	8.671	8.289	-0.382
55	37	8.929	8.598	-0.331
55	38	8.745	8.488	-0.257
55	39	8.787	8.449	-0.338
55	40	8.636	8.280	-0.356
55	41	8.677	8.331	-0.346
55	42	8.694	8.346	-0.348
50	43	8.602	8.189	-0.413
50	44	8.653	8.262	-0.391
50	45	8.707	8.424	-0.283
50	46	8.779	8.455	-0.324
50	47	8.799	8.369	-0.430
	Max	8.929	8.847	0.059
	Average	8.737	8.434	-0.303
	Min	8.602	8.189	-0.432
	Std Dev	0.064	0.123	0.094

9.10_T_SYNC_FALL_500kHz_4V

Test Site	
Tester	
Test Number	
Max Limit	17
Min Limit	ns

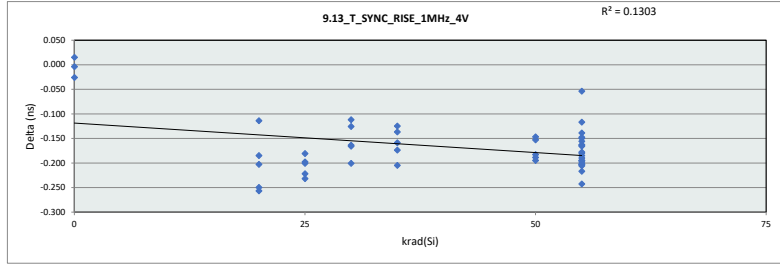
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.771	8.349	8.390	8.406	8.299	8.189	8.280
Average	8.815	8.447	8.439	8.442	8.371	8.340	8.411
Max	8.847	8.514	8.488	8.501	8.428	8.455	8.598
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

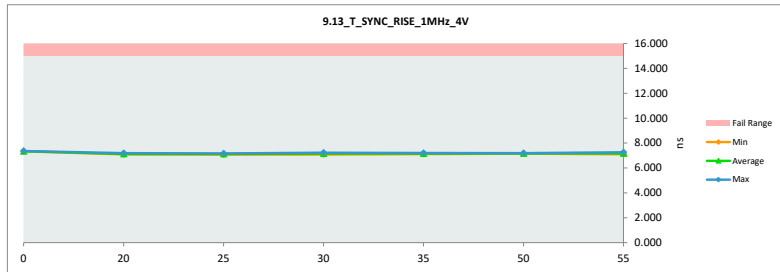
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.13_T_SYNC_RISE_1MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	15
Min Limit	15



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.347	7.362	0.015
0	51	7.339	7.335	-0.004
0	52	7.365	7.339	-0.026
25	1	7.336	7.138	-0.198
25	2	7.326	7.104	-0.222
25	3	7.350	7.169	-0.181
25	4	7.354	7.153	-0.201
25	5	7.303	7.071	-0.232
20	6	7.335	7.085	-0.250
20	7	7.315	7.112	-0.203
20	8	7.343	7.086	-0.257
20	9	7.302	7.188	-0.114
20	10	7.330	7.145	-0.185
35	11	7.300	7.163	-0.137
35	12	7.302	7.143	-0.159
35	13	7.328	7.203	-0.125
35	14	7.356	7.151	-0.205
35	15	7.291	7.117	-0.174
30	16	7.323	7.157	-0.166
30	17	7.298	7.186	-0.112
30	18	7.348	7.222	-0.126
30	19	7.366	7.165	-0.201
30	20	7.247	7.083	-0.164
55	21	7.317	7.151	-0.166
55	22	7.335	7.140	-0.195
55	23	7.341	7.138	-0.203
55	24	7.342	7.203	-0.139
55	25	7.316	7.153	-0.163
55	26	7.322	7.205	-0.117
55	27	7.347	7.191	-0.156
55	28	7.321	7.267	-0.054
55	29	7.353	7.203	-0.150
55	30	7.341	7.098	-0.243
55	31	7.377	7.175	-0.202
55	32	7.367	7.161	-0.206
55	33	7.371	7.191	-0.180
55	34	7.337	7.142	-0.195
55	35	7.365	7.175	-0.190
55	36	7.363	7.178	-0.185
55	37	7.329	7.151	-0.178
55	38	7.334	7.117	-0.217
55	39	7.357	7.159	-0.198
55	40	7.341	7.193	-0.148
55	41	7.346	7.182	-0.164
55	42	7.340	7.136	-0.204
50	43	7.329	7.146	-0.183
50	44	7.376	7.187	-0.189
50	45	7.352	7.157	-0.195
50	46	7.343	7.196	-0.147
50	47	7.334	7.181	-0.153
	Max	7.377	7.362	0.015
	Average	7.336	7.169	-0.167
	Min	7.247	7.071	-0.257
	Std Dev	0.025	0.059	0.056

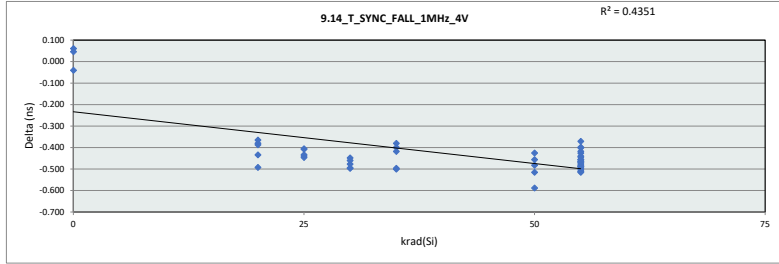
9.13_T_SYNC_RISE_1MHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
LL								
Min	7.335	7.085	7.071	7.083	7.117	7.146	7.098	
Average	7.345	7.123	7.127	7.163	7.155	7.173	7.169	
Max	7.362	7.188	7.169	7.222	7.203	7.196	7.267	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	



**HDR TID Report
TPS7H5005-SEP**

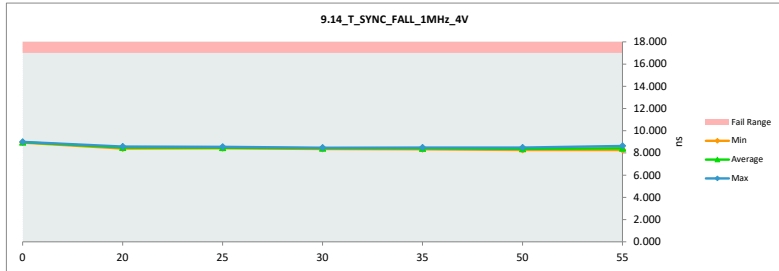
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.14_T_SYNC_FALL_1MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.936	8.996	0.060
0	51	8.972	8.931	-0.041
0	52	8.927	8.972	0.045
25	1	8.901	8.493	-0.408
25	2	8.977	8.543	-0.434
25	3	8.860	8.453	-0.407
25	4	8.866	8.426	-0.440
25	5	8.899	8.452	-0.447
20	6	8.926	8.433	-0.493
20	7	8.946	8.580	-0.366
20	8	8.932	8.544	-0.388
20	9	8.825	8.444	-0.381
20	10	8.827	8.392	-0.435
35	11	8.789	8.370	-0.419
35	12	8.871	8.374	-0.497
35	13	8.836	8.335	-0.501
35	14	8.858	8.458	-0.400
35	15	8.862	8.481	-0.381
30	16	8.853	8.357	-0.496
30	17	8.930	8.469	-0.461
30	18	8.908	8.459	-0.449
30	19	8.936	8.439	-0.497
30	20	8.853	8.375	-0.478
55	21	8.935	8.471	-0.464
55	22	8.872	8.415	-0.457
55	23	8.877	8.421	-0.456
55	24	8.867	8.380	-0.487
55	25	8.871	8.444	-0.427
55	26	8.883	8.464	-0.419
55	27	9.033	8.631	-0.402
55	28	8.848	8.338	-0.510
55	29	8.855	8.456	-0.399
55	30	8.899	8.527	-0.372
55	31	8.955	8.465	-0.490
55	32	8.890	8.422	-0.468
55	33	8.773	8.260	-0.513
55	34	8.838	8.397	-0.441
55	35	8.814	8.327	-0.487
55	36	8.803	8.322	-0.481
55	37	9.083	8.610	-0.473
55	38	8.885	8.440	-0.445
55	39	8.936	8.468	-0.468
55	40	8.770	8.269	-0.501
55	41	8.796	8.300	-0.496
55	42	8.844	8.328	-0.516
50	43	8.753	8.270	-0.483
50	44	8.798	8.282	-0.516
50	45	8.851	8.425	-0.426
50	46	8.944	8.487	-0.457
50	47	8.956	8.367	-0.589
	Max	9.083	8.996	0.060
	Average	8.882	8.455	-0.427
	Min	8.753	8.260	-0.589
	Std Dev	0.066	0.155	0.124

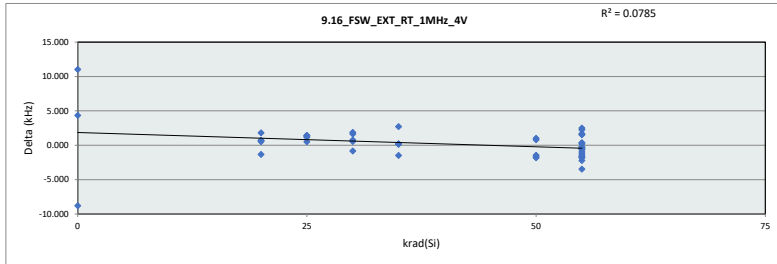
9.14_T_SYNC_FALL_1MHz_4V							
Test Site							
Tester							
Test Number							
Max Limit	17	ns					
Min Limit		ns					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.931	8.392	8.426	8.357	8.335	8.270	8.260
Average	8.966	8.479	8.473	8.420	8.404	8.366	8.416
Max	8.996	8.580	8.543	8.469	8.481	8.487	8.631
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

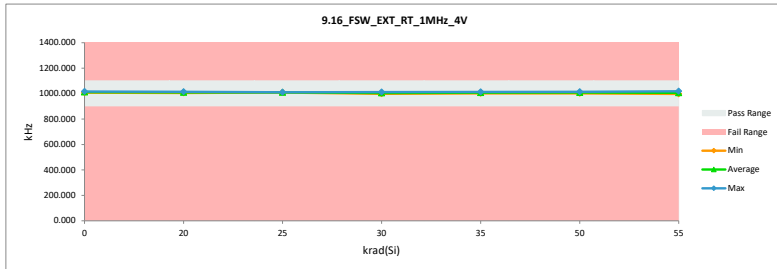
9.16_FSW_EXT_RT_1MHz_4V	
Test Site	
Tester	
Test Number	
Unit	kHz kHz
Max Limit	1100 1100
Min Limit	900 900



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1006.947	1011.269	4.322
0	51	1016.074	1007.245	-8.829
0	52	1005.065	1016.074	11.009
25	1	1007.187	1008.575	1.388
25	2	1008.557	1009.960	1.403
25	3	1007.305	1008.483	1.178
25	4	1009.980	1010.461	0.481
25	5	1007.857	1009.024	1.167
20	6	1011.416	1010.063	-1.353
20	7	1009.183	1009.694	0.511
20	8	1012.899	1013.578	0.679
20	9	1009.788	1010.452	0.664
20	10	1002.902	1004.677	1.775
35	11	1001.300	1001.423	0.123
35	12	1014.416	1012.902	-1.514
35	13	1007.855	1010.544	2.689
35	14	1005.102	1005.295	0.193
35	15	1004.873	1005.019	0.146
30	16	1011.435	1012.164	0.729
30	17	999.198	998.350	-0.848
30	18	1001.804	1002.334	0.530
30	19	1000.822	1002.671	1.849
30	20	1005.361	1006.977	1.616
55	21	999.486	1001.002	1.516
55	22	1007.485	1005.235	-2.250
55	23	1019.668	1018.397	-1.271
55	24	1004.242	1003.624	-0.618
55	25	1008.305	1009.961	1.656
55	26	995.939	997.482	1.543
55	27	1007.991	1006.249	-1.742
55	28	1003.109	999.606	-3.503
55	29	1003.850	1002.853	-0.997
55	30	1013.074	1012.761	-0.313
55	31	1005.161	1005.476	0.315
55	32	1018.004	1018.181	0.177
55	33	1000.799	999.276	-1.523
55	34	1008.764	1008.285	-0.479
55	35	1005.842	1004.027	-1.815
55	36	1003.588	1002.948	-0.640
55	37	1010.780	1009.041	-1.739
55	38	1006.132	1008.596	2.464
55	39	1009.112	1011.335	2.223
55	40	1002.218	1002.557	0.339
55	41	999.122	998.845	-0.277
55	42	1010.180	1009.739	-0.441
50	43	1007.180	1005.486	-1.694
50	44	1008.169	1006.323	-1.846
50	45	1011.574	1012.350	0.776
50	46	1001.028	1002.019	0.991
50	47	1015.954	1014.461	-1.493
	Max	1019.668	1018.397	11.009
	Average	1007.082	1007.267	0.185
	Min	995.939	997.482	-8.829
	Std Dev	5.091	5.074	2.507

9.16_FSW_EXT_RT_1MHz_4V	
Test Site	
Tester	
Test Number	
Max Limit	1100 kHz
Min Limit	900 kHz

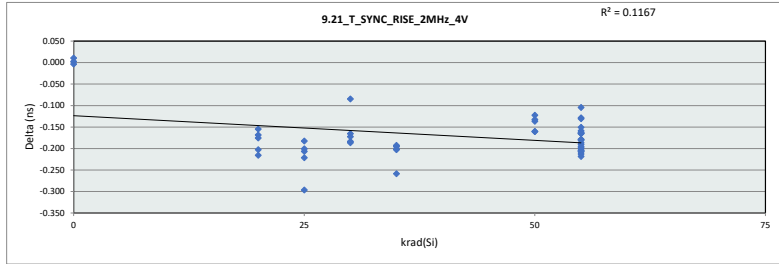
krad(Si)	0	20	25	30	35	50	55
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000
Min	1007.245	1004.677	1008.483	998.350	1001.423	1002.019	997.482
Average	1011.529	1009.693	1009.301	1004.499	1007.037	1008.128	1006.158
Max	1016.074	1013.578	1010.461	1012.164	1012.902	1014.461	1018.397
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000



**HDR TID Report
TPS7H5005-SEP**

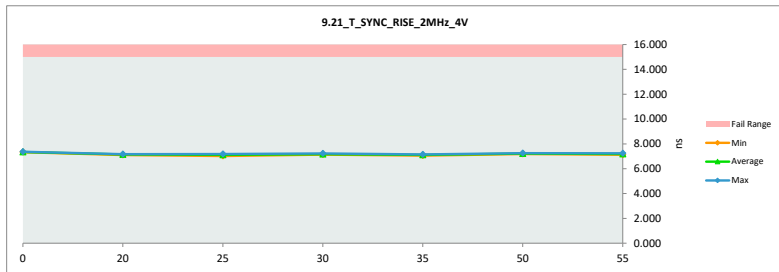
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.21_T_SYNC_RISE_2MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.363	7.365	0.002
0	51	7.330	7.340	0.010
0	52	7.334	7.330	-0.004
25	1	7.336	7.129	-0.207
25	2	7.319	7.022	-0.297
25	3	7.342	7.120	-0.222
25	4	7.382	7.181	-0.201
25	5	7.310	7.127	-0.183
20	6	7.335	7.166	-0.169
20	7	7.318	7.142	-0.176
20	8	7.313	7.097	-0.216
20	9	7.329	7.174	-0.155
20	10	7.345	7.142	-0.203
35	11	7.288	7.095	-0.193
35	12	7.318	7.059	-0.259
35	13	7.352	7.150	-0.202
35	14	7.334	7.138	-0.196
35	15	7.307	7.104	-0.203
30	16	7.322	7.135	-0.187
30	17	7.321	7.137	-0.184
30	18	7.371	7.198	-0.173
30	19	7.390	7.224	-0.166
30	20	7.253	7.168	-0.085
55	21	7.346	7.155	-0.191
55	22	7.337	7.150	-0.187
55	23	7.333	7.129	-0.204
55	24	7.378	7.213	-0.165
55	25	7.320	7.161	-0.159
55	26	7.329	7.200	-0.129
55	27	7.340	7.235	-0.105
55	28	7.335	7.184	-0.151
55	29	7.386	7.167	-0.219
55	30	7.364	7.233	-0.131
55	31	7.423	7.218	-0.205
55	32	7.357	7.194	-0.163
55	33	7.380	7.200	-0.180
55	34	7.354	7.188	-0.166
55	35	7.375	7.176	-0.199
55	36	7.398	7.185	-0.213
55	37	7.342	7.135	-0.207
55	38	7.356	7.191	-0.165
55	39	7.353	7.157	-0.196
55	40	7.391	7.212	-0.179
55	41	7.372	7.191	-0.181
55	42	7.374	7.166	-0.208
50	43	7.348	7.187	-0.161
50	44	7.389	7.252	-0.137
50	45	7.353	7.220	-0.133
50	46	7.349	7.188	-0.161
50	47	7.341	7.218	-0.123
	Max	7.423	7.365	0.010
	Average	7.347	7.177	-0.170
	Min	7.253	7.022	-0.297
	Std Dev	0.030	0.062	0.057

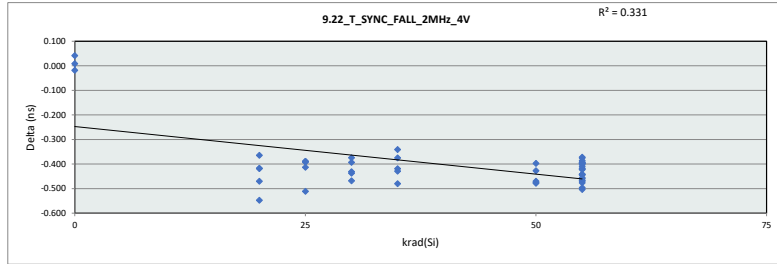
9.21_T_SYNC_RISE_2MHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
LL								
Min	7.330	7.097	7.022	7.135	7.059	7.187	7.129	
Average	7.345	7.144	7.116	7.172	7.109	7.213	7.184	
Max	7.365	7.174	7.181	7.224	7.150	7.252	7.235	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	



**HDR TID Report
TPS7H5005-SEP**

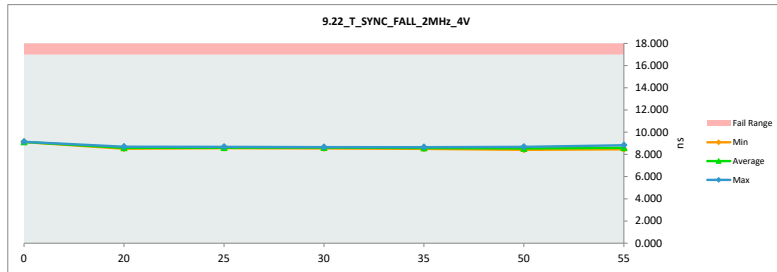
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.22_T_SYNC_FALL_2MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	17
Min Limit	17



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.071	9.112	0.041
0	51	9.134	9.115	-0.019
0	52	9.126	9.134	0.008
25	1	9.018	8.625	-0.393
25	2	9.100	8.686	-0.414
25	3	8.961	8.571	-0.390
25	4	8.963	8.573	-0.390
25	5	9.072	8.560	-0.512
20	6	9.053	8.505	-0.548
20	7	9.117	8.698	-0.419
20	8	9.072	8.654	-0.418
20	9	8.944	8.579	-0.365
20	10	9.003	8.532	-0.471
35	11	8.913	8.493	-0.420
35	12	9.026	8.650	-0.376
35	13	8.999	8.518	-0.481
35	14	9.039	8.609	-0.430
35	15	8.973	8.631	-0.342
30	16	9.039	8.570	-0.469
30	17	9.049	8.655	-0.394
30	18	9.093	8.655	-0.438
30	19	9.091	8.659	-0.432
30	20	8.914	8.539	-0.375
55	21	9.073	8.631	-0.442
55	22	9.049	8.606	-0.443
55	23	8.983	8.523	-0.460
55	24	8.982	8.561	-0.421
55	25	9.031	8.621	-0.410
55	26	9.060	8.673	-0.387
55	27	9.149	8.773	-0.376
55	28	9.004	8.606	-0.398
55	29	8.979	8.561	-0.418
55	30	8.990	8.617	-0.373
55	31	9.028	8.571	-0.457
55	32	9.061	8.557	-0.504
55	33	8.978	8.584	-0.394
55	34	8.983	8.589	-0.394
55	35	8.948	8.550	-0.398
55	36	8.978	8.508	-0.470
55	37	9.241	8.818	-0.423
55	38	9.014	8.569	-0.445
55	39	9.117	8.620	-0.497
55	40	8.939	8.462	-0.477
55	41	8.927	8.526	-0.401
55	42	8.988	8.521	-0.467
50	43	8.887	8.411	-0.476
50	44	8.931	8.452	-0.479
50	45	9.001	8.603	-0.398
50	46	9.104	8.676	-0.428
50	47	9.014	8.543	-0.471
Max		9.241	9.134	0.041
Average		9.024	8.621	-0.403
Min		8.887	8.411	-0.548
Std Dev		0.071	0.148	0.114

9.22_T_SYNC_FALL_2MHz_4V							
Test Site							
Tester							
Test Number							
Max Limit	17	ns					
Min Limit	ns						
krad(Si)	0	20	25	30	35	50	55
LL							
Min	9.112	8.505	8.560	8.539	8.493	8.411	8.462
Average	9.120	8.594	8.603	8.616	8.580	8.537	8.593
Max	9.134	8.698	8.686	8.659	8.650	8.676	8.818
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000

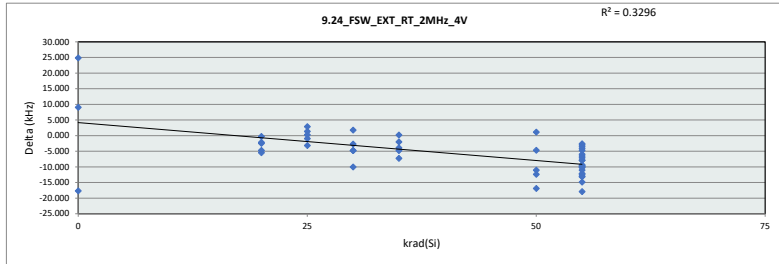


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.24_FSW_EXT_RT_2MHz_4V	
Test Site	
Tester	
Test Number	
Unit	kHz kHz
Max Limit	2300 2300
Min Limit	1700 1700

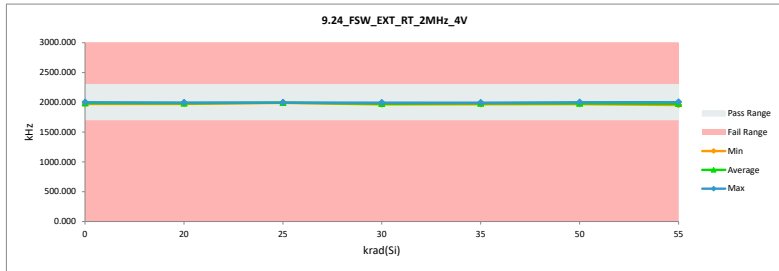
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1991.386	2000.424	9.038
0	51	1989.346	1971.646	-17.700
0	52	1964.536	1989.346	24.810
25	1	1994.143	1995.443	1.300
25	2	1997.430	1997.633	0.203
25	3	1989.692	1992.513	2.821
25	4	1993.698	1990.485	-3.213
25	5	1995.649	1994.680	-0.969
20	6	1987.221	1984.735	-2.486
20	7	1986.647	1981.877	-4.770
20	8	1998.062	1997.752	-0.310
20	9	1987.917	1982.433	-5.484
20	10	1975.362	1973.170	-2.192
35	11	1977.844	1978.027	0.183
35	12	1992.491	1988.545	-3.946
35	13	1987.976	1985.918	-2.058
35	14	1973.531	1968.717	-4.814
35	15	2001.208	1993.896	-7.312
30	16	1984.713	1981.956	-2.757
30	17	1977.949	1967.881	-10.068
30	18	1969.118	1964.297	-4.821
30	19	1973.346	1975.066	1.720
30	20	1998.898	1994.094	-4.804
55	21	1964.073	1958.071	-6.002
55	22	1986.561	1974.391	-12.170
55	23	2017.672	2002.778	-14.894
55	24	1989.262	1979.180	-10.082
55	25	1985.835	1977.876	-7.959
55	26	1962.038	1954.907	-7.131
55	27	1984.422	1974.582	-9.840
55	28	1976.500	1958.554	-17.946
55	29	1995.188	1990.439	-4.749
55	30	2010.394	2000.738	-9.656
55	31	2007.910	1994.880	-13.030
55	32	1988.175	1984.021	-4.154
55	33	1966.939	1954.548	-12.391
55	34	1984.225	1973.128	-11.097
55	35	1987.556	1981.005	-6.551
55	36	1976.447	1967.079	-9.368
55	37	1987.226	1983.660	-3.566
55	38	1992.552	1989.523	-3.029
55	39	1971.368	1968.703	-2.665
55	40	1975.527	1965.289	-10.238
55	41	1973.707	1965.804	-7.903
55	42	1992.934	1979.724	-13.210
50	43	1989.856	1972.903	-16.953
50	44	1989.815	1977.389	-12.426
50	45	1989.363	1990.451	1.088
50	46	1975.367	1970.648	-4.719
50	47	2013.193	2002.136	-11.057
Max		2017.672	2002.778	24.810
Average		1986.445	1980.859	-5.587
Min		1962.038	1954.548	-17.946
Std Dev		12.407	12.939	7.141



9.24_FSW_EXT_RT_2MHz_4V

9.24_FSW_EXT_RT_2MHz_4V	
Test Site	
Tester	
Test Number	
Max Limit	2300 kHz
Min Limit	1700 kHz

krad(Si)	0	20	25	30	35	50	55
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000
Min	1971.646	1973.170	1990.485	1964.297	1968.717	1970.648	1954.548
Average	1987.139	1983.993	1994.151	1976.659	1983.021	1982.705	1976.313
Max	2000.424	1997.752	1997.633	1994.094	1993.896	2002.136	2002.778
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

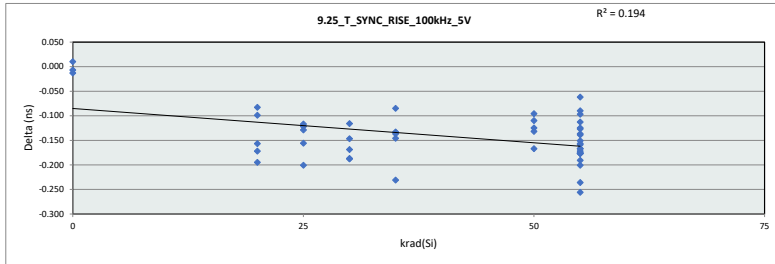


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.25_T_SYNC_RISE_100kHz_5V

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

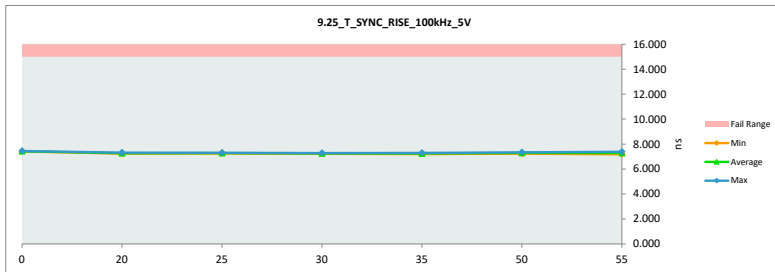


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.434	7.444	0.010
0	51	7.428	7.415	-0.013
0	52	7.435	7.428	-0.007
25	1	7.422	7.305	-0.117
25	2	7.419	7.290	-0.129
25	3	7.453	7.252	-0.201
25	4	7.393	7.271	-0.122
25	5	7.434	7.278	-0.156
20	6	7.414	7.242	-0.172
20	7	7.393	7.236	-0.157
20	8	7.453	7.258	-0.195
20	9	7.391	7.308	-0.083
20	10	7.411	7.312	-0.099
35	11	7.372	7.226	-0.146
35	12	7.391	7.254	-0.137
35	13	7.429	7.198	-0.231
35	14	7.413	7.280	-0.133
35	15	7.376	7.291	-0.085
30	16	7.407	7.220	-0.187
30	17	7.416	7.269	-0.147
30	18	7.450	7.281	-0.169
30	19	7.456	7.268	-0.188
30	20	7.343	7.227	-0.116
55	21	7.423	7.232	-0.191
55	22	7.417	7.278	-0.139
55	23	7.414	7.237	-0.177
55	24	7.422	7.325	-0.097
55	25	7.394	7.267	-0.127
55	26	7.402	7.289	-0.113
55	27	7.444	7.382	-0.062
55	28	7.399	7.262	-0.137
55	29	7.449	7.290	-0.159
55	30	7.447	7.280	-0.167
55	31	7.463	7.338	-0.125
55	32	7.436	7.285	-0.151
55	33	7.451	7.361	-0.090
55	34	7.426	7.250	-0.176
55	35	7.457	7.256	-0.201
55	36	7.458	7.222	-0.236
55	37	7.423	7.247	-0.176
55	38	7.433	7.276	-0.157
55	39	7.434	7.257	-0.177
55	40	7.475	7.303	-0.172
55	41	7.440	7.184	-0.256
55	42	7.478	7.311	-0.167
50	43	7.406	7.239	-0.167
50	44	7.430	7.334	-0.096
50	45	7.443	7.311	-0.132
50	46	7.409	7.299	-0.110
50	47	7.402	7.277	-0.125
	Max	7.478	7.444	0.010
	Average	7.424	7.283	-0.141
	Min	7.343	7.184	-0.256
	Std Dev	0.027	0.054	0.054

9.25_T_SYNC_RISE_100kHz_5V

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.415	7.236	7.252	7.220	7.198	7.239	7.184
Average	7.429	7.271	7.279	7.253	7.250	7.292	7.279
Max	7.444	7.312	7.305	7.281	7.291	7.334	7.382
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000

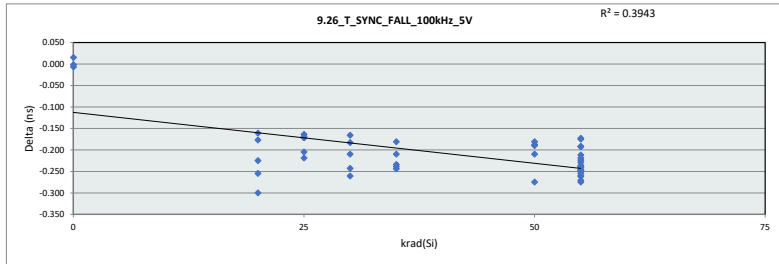


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.26_T_SYNC_FALL_100kHz_5V

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

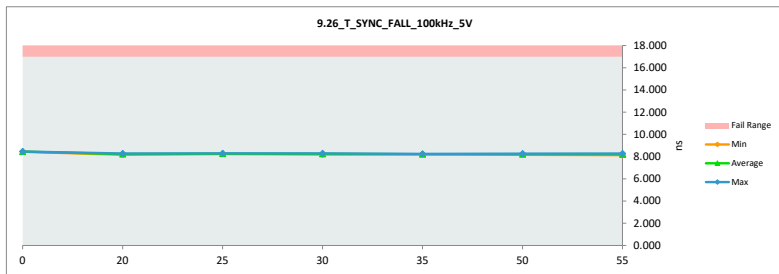


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.459	8.457	-0.002
0	51	8.447	8.440	-0.007
0	52	8.432	8.447	0.015
25	1	8.471	8.299	-0.172
25	2	8.464	8.259	-0.205
25	3	8.453	8.289	-0.164
25	4	8.449	8.230	-0.219
25	5	8.455	8.286	-0.169
20	6	8.454	8.229	-0.225
20	7	8.447	8.286	-0.161
20	8	8.457	8.157	-0.300
20	9	8.425	8.248	-0.177
20	10	8.453	8.198	-0.255
35	11	8.439	8.200	-0.239
35	12	8.442	8.232	-0.210
35	13	8.451	8.207	-0.244
35	14	8.426	8.245	-0.181
35	15	8.447	8.213	-0.234
30	16	8.449	8.206	-0.243
30	17	8.441	8.231	-0.210
30	18	8.456	8.290	-0.166
30	19	8.452	8.191	-0.261
30	20	8.444	8.261	-0.183
55	21	8.451	8.278	-0.173
55	22	8.446	8.205	-0.241
55	23	8.432	8.257	-0.175
55	24	8.449	8.230	-0.219
55	25	8.450	8.202	-0.248
55	26	8.436	8.196	-0.240
55	27	8.453	8.215	-0.238
55	28	8.423	8.211	-0.212
55	29	8.438	8.245	-0.193
55	30	8.457	8.210	-0.247
55	31	8.447	8.196	-0.251
55	32	8.443	8.194	-0.249
55	33	8.434	8.205	-0.229
55	34	8.423	8.168	-0.255
55	35	8.443	8.207	-0.236
55	36	8.423	8.163	-0.260
55	37	8.497	8.235	-0.262
55	38	8.426	8.234	-0.192
55	39	8.434	8.210	-0.224
55	40	8.423	8.152	-0.271
55	41	8.410	8.135	-0.275
55	42	8.441	8.195	-0.246
50	43	8.405	8.217	-0.188
50	44	8.426	8.216	-0.210
50	45	8.419	8.229	-0.190
50	46	8.442	8.261	-0.181
50	47	8.444	8.169	-0.275
	Max	8.497	8.457	0.015
	Average	8.443	8.235	-0.208
	Min	8.405	8.135	-0.300
	Std Dev	0.016	0.066	0.064

9.26_T_SYNC_FALL_100kHz_5V

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.440	8.157	8.230	8.191	8.200	8.169	8.135
Average	8.448	8.224	8.273	8.236	8.219	8.218	8.207
Max	8.457	8.286	8.299	8.299	8.245	8.261	8.278
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



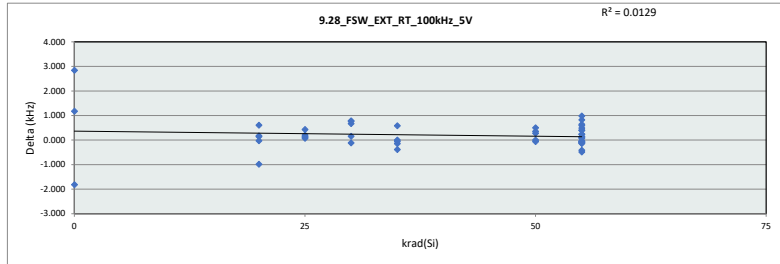
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.28_FSW_EXT_RT_100kHz_5V

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

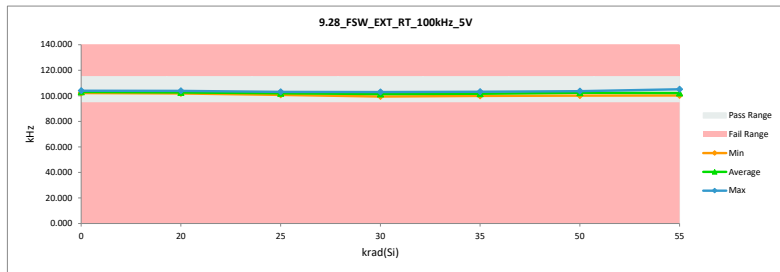
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.799	102.966	1.167
0	51	103.986	102.164	-1.822
0	52	101.151	103.986	2.835
25	1	101.778	101.843	0.065
25	2	100.644	100.760	0.116
25	3	101.307	101.503	0.196
25	4	102.564	102.695	0.131
25	5	102.645	103.071	0.426
20	6	102.853	101.864	-0.989
20	7	102.584	102.549	-0.035
20	8	103.713	103.849	0.136
20	9	101.932	102.530	0.598
20	10	102.019	102.186	0.167
35	11	99.975	99.971	-0.004
35	12	103.510	103.121	-0.389
35	13	102.658	103.235	0.577
35	14	100.429	100.276	-0.153
35	15	101.333	101.272	-0.061
30	16	101.521	101.670	0.149
30	17	99.544	99.426	-0.118
30	18	101.467	102.130	0.663
30	19	99.940	100.712	0.772
30	20	102.180	102.949	0.769
55	21	100.706	101.294	0.588
55	22	102.094	102.041	-0.053
55	23	105.254	105.127	-0.127
55	24	102.606	102.503	-0.103
55	25	101.524	101.916	0.392
55	26	99.699	100.335	0.636
55	27	100.434	100.561	0.127
55	28	100.943	100.522	-0.421
55	29	102.011	101.909	-0.102
55	30	104.708	104.817	0.109
55	31	101.865	102.262	0.397
55	32	103.356	103.589	0.233
55	33	100.412	100.472	0.060
55	34	103.161	103.393	0.232
55	35	102.027	102.161	0.134
55	36	101.070	101.014	-0.056
55	37	103.360	103.312	-0.048
55	38	102.246	103.061	0.815
55	39	102.698	103.676	0.978
55	40	102.075	101.584	-0.491
55	41	99.789	100.275	0.486
55	42	103.169	103.027	-0.142
50	43	103.625	103.621	-0.004
50	44	102.403	102.749	0.346
50	45	102.671	102.942	0.271
50	46	99.696	100.191	0.495
50	47	102.713	102.646	-0.067
Max		105.254	105.127	2.835
Average		101.957	102.155	0.198
Min		99.544	99.426	-1.822
Std Dev		1.322	1.293	0.616



9.28_FSW_EXT_RT_100kHz_5

Test Site	
Tester	
Test Number	
Max Limit	115 kHz
Min Limit	95 kHz

krad(Si)	0	20	25	30	35	50	55
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	102.164	101.864	100.760	99.426	99.971	100.191	100.275
Average	103.039	102.596	101.974	101.377	101.575	102.430	102.221
Max	103.986	103.849	103.071	102.949	103.235	103.621	105.127
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000



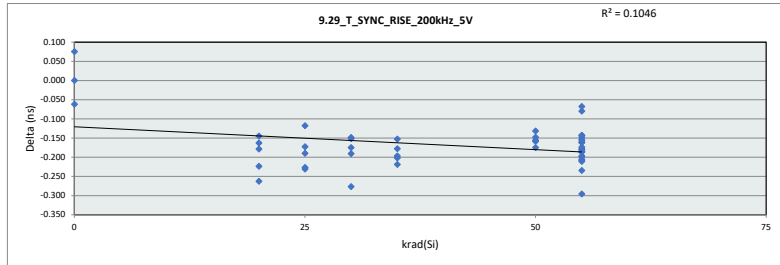
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.29_T_SYNC_RISE_200kHz_5V

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

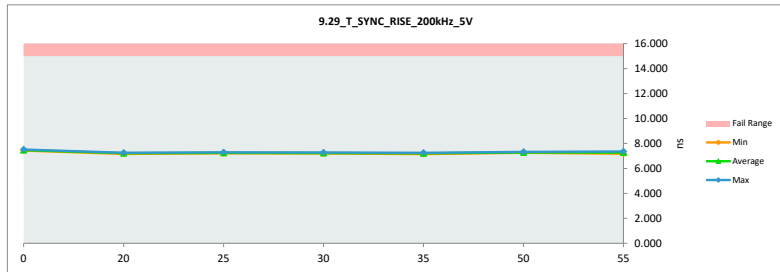
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.428	7.428	0.000
0	51	7.513	7.451	-0.062
0	52	7.438	7.513	0.075
25	1	7.438	7.207	-0.231
25	2	7.431	7.241	-0.190
25	3	7.438	7.211	-0.227
25	4	7.436	7.263	-0.173
25	5	7.405	7.287	-0.118
20	6	7.424	7.161	-0.263
20	7	7.403	7.240	-0.163
20	8	7.400	7.255	-0.145
20	9	7.401	7.222	-0.179
20	10	7.416	7.192	-0.224
35	11	7.366	7.147	-0.219
35	12	7.401	7.248	-0.153
35	13	7.422	7.225	-0.197
35	14	7.416	7.238	-0.178
35	15	7.392	7.190	-0.202
30	16	7.471	7.194	-0.277
30	17	7.394	7.245	-0.149
30	18	7.459	7.268	-0.191
30	19	7.452	7.277	-0.175
30	20	7.343	7.191	-0.152
55	21	7.418	7.244	-0.174
55	22	7.460	7.254	-0.206
55	23	7.414	7.252	-0.162
55	24	7.442	7.362	-0.080
55	25	7.414	7.271	-0.143
55	26	7.407	7.249	-0.158
55	27	7.449	7.287	-0.162
55	28	7.389	7.241	-0.148
55	29	7.457	7.303	-0.154
55	30	7.446	7.267	-0.179
55	31	7.469	7.272	-0.197
55	32	7.458	7.247	-0.211
55	33	7.446	7.261	-0.185
55	34	7.423	7.236	-0.187
55	35	7.439	7.259	-0.180
55	36	7.451	7.216	-0.235
55	37	7.429	7.230	-0.199
55	38	7.424	7.215	-0.209
55	39	7.425	7.357	-0.068
55	40	7.464	7.168	-0.296
55	41	7.432	7.289	-0.143
55	42	7.428	7.243	-0.185
50	43	7.421	7.273	-0.148
50	44	7.457	7.325	-0.132
50	45	7.452	7.296	-0.156
50	46	7.424	7.249	-0.175
50	47	7.416	7.257	-0.159
	Max	7.513	7.513	0.075
	Average	7.429	7.260	-0.168
	Min	7.343	7.147	-0.296
	Std Dev	0.029	0.068	0.062



9.29_T_SYNC_RISE_200kHz_5V

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.428	7.161	7.207	7.191	7.147	7.249	7.168
Average	7.464	7.214	7.242	7.235	7.210	7.280	7.260
Max	7.513	7.255	7.287	7.277	7.248	7.325	7.362
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000

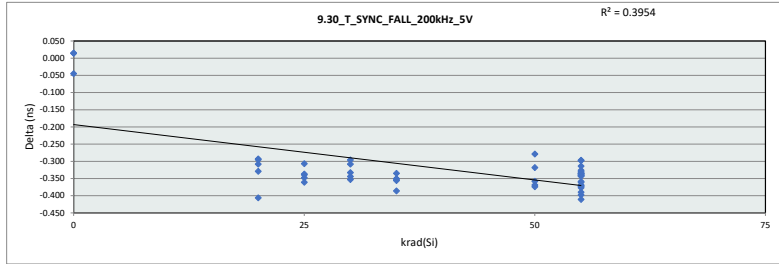


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.30_T_SYNC_FALL_200kHz_5V

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

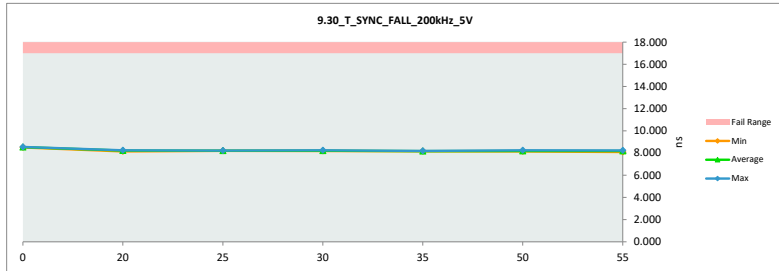


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.537	8.551	0.014
0	51	8.551	8.506	-0.045
0	52	8.536	8.551	0.015
25	1	8.564	8.225	-0.339
25	2	8.572	8.211	-0.361
25	3	8.541	8.193	-0.348
25	4	8.535	8.228	-0.307
25	5	8.549	8.212	-0.337
20	6	8.562	8.233	-0.329
20	7	8.549	8.143	-0.406
20	8	8.544	8.249	-0.295
20	9	8.533	8.225	-0.308
20	10	8.533	8.240	-0.293
35	11	8.540	8.154	-0.386
35	12	8.523	8.172	-0.351
35	13	8.542	8.191	-0.351
35	14	8.526	8.170	-0.356
35	15	8.517	8.182	-0.335
30	16	8.540	8.244	-0.296
30	17	8.529	8.196	-0.333
30	18	8.527	8.183	-0.344
30	19	8.528	8.220	-0.308
30	20	8.536	8.183	-0.353
55	21	8.527	8.201	-0.326
55	22	8.519	8.184	-0.335
55	23	8.538	8.177	-0.361
55	24	8.537	8.164	-0.373
55	25	8.538	8.208	-0.330
55	26	8.555	8.165	-0.390
55	27	8.534	8.237	-0.297
55	28	8.517	8.182	-0.335
55	29	8.523	8.181	-0.342
55	30	8.527	8.188	-0.339
55	31	8.532	8.218	-0.314
55	32	8.537	8.195	-0.342
55	33	8.501	8.130	-0.371
55	34	8.521	8.178	-0.343
55	35	8.529	8.152	-0.377
55	36	8.533	8.135	-0.398
55	37	8.575	8.206	-0.369
55	38	8.522	8.188	-0.334
55	39	8.533	8.174	-0.359
55	40	8.505	8.094	-0.411
55	41	8.499	8.201	-0.298
55	42	8.527	8.189	-0.338
50	43	8.510	8.192	-0.318
50	44	8.514	8.140	-0.374
50	45	8.515	8.157	-0.358
50	46	8.531	8.252	-0.279
50	47	8.529	8.160	-0.369
	Max	8.575	8.551	0.015
	Average	8.533	8.210	-0.323
	Min	8.499	8.094	-0.411
	Std Dev	0.016	0.090	0.087

9.30_T_SYNC_FALL_200kHz_5V

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.506	8.143	8.193	8.183	8.154	8.140	8.094
Average	8.536	8.218	8.214	8.205	8.174	8.180	8.179
Max	8.551	8.249	8.228	8.244	8.191	8.252	8.237
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



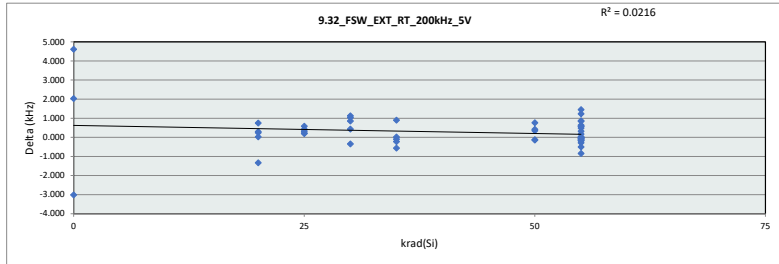
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.32_FSW_EXT_RT_200kHz_5V

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

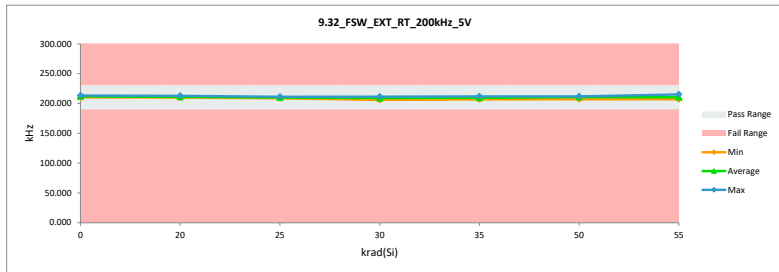
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	209.766	211.787	2.021
0	51	213.298	210.278	-3.020
0	52	208.699	213.298	4.599
25	1	209.659	209.874	0.215
25	2	208.384	208.704	0.320
25	3	208.832	209.246	0.414
25	4	210.889	211.075	0.186
25	5	210.711	211.289	0.578
20	6	211.362	210.018	-1.344
20	7	210.841	210.854	0.013
20	8	212.673	212.907	0.234
20	9	210.100	210.839	0.739
20	10	209.775	210.061	0.286
35	11	206.911	206.917	0.006
35	12	212.360	211.786	-0.574
35	13	210.974	211.864	0.890
35	14	207.799	207.564	-0.235
35	15	209.100	208.997	-0.103
30	16	209.729	210.152	0.423
30	17	206.274	205.922	-0.352
30	18	208.859	209.702	0.843
30	19	207.093	208.210	1.117
30	20	210.289	211.316	1.027
55	21	207.704	208.539	0.835
55	22	210.496	210.202	-0.294
55	23	215.396	215.219	-0.177
55	24	210.667	210.487	-0.180
55	25	209.591	210.168	0.577
55	26	206.230	207.083	0.853
55	27	208.105	208.113	0.008
55	28	208.383	207.530	-0.853
55	29	209.785	209.726	-0.059
55	30	214.271	214.430	0.159
55	31	209.845	210.413	0.568
55	32	212.548	213.024	0.476
55	33	207.750	207.758	0.008
55	34	211.735	212.042	0.307
55	35	210.007	209.980	-0.027
55	36	208.786	208.662	-0.124
55	37	212.042	212.001	-0.041
55	38	210.305	211.531	1.226
55	39	211.129	212.569	1.440
55	40	209.783	209.269	-0.514
55	41	206.526	207.154	0.628
55	42	211.756	211.661	-0.095
50	43	212.030	211.888	-0.142
50	44	210.763	211.100	0.337
50	45	211.345	211.752	0.407
50	46	206.409	207.165	0.756
50	47	211.795	211.656	-0.139
Max		215.396	215.219	4.599
Average		209.991	210.276	0.284
Min		206.230	205.922	-3.020
Std Dev		2.054	2.025	0.974



9.32_FSW_EXT_RT_200kHz_5

Test Site	
Tester	
Test Number	
Max Limit	230 kHz
Min Limit	190 kHz

krad(Si)	0	20	25	30	35	50	55
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	210.278	210.018	208.704	205.922	206.917	207.165	207.083
Average	211.788	210.936	210.038	209.060	209.426	210.712	210.344
Max	213.298	212.907	211.289	211.316	211.864	211.888	215.219
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000

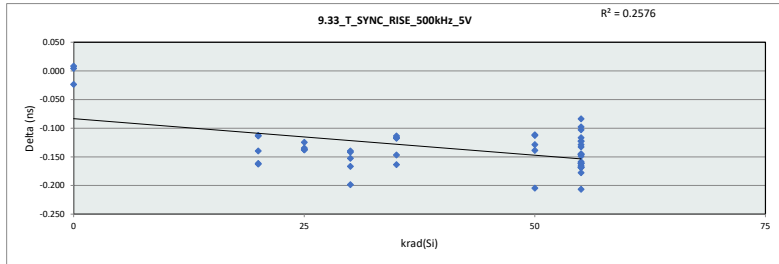


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.33_T_SYNC_RISE_500kHz_5V

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

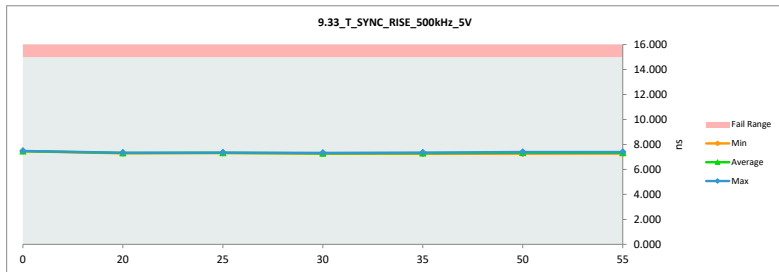


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.470	7.478	0.008
0	51	7.474	7.450	-0.024
0	52	7.470	7.474	0.004
25	1	7.457	7.319	-0.138
25	2	7.450	7.315	-0.135
25	3	7.460	7.323	-0.137
25	4	7.475	7.350	-0.125
25	5	7.453	7.315	-0.138
20	6	7.453	7.339	-0.114
20	7	7.448	7.285	-0.163
20	8	7.455	7.293	-0.162
20	9	7.424	7.311	-0.113
20	10	7.452	7.312	-0.140
35	11	7.412	7.248	-0.164
35	12	7.438	7.324	-0.114
35	13	7.470	7.323	-0.147
35	14	7.461	7.343	-0.118
35	15	7.410	7.293	-0.117
30	16	7.440	7.287	-0.153
30	17	7.432	7.290	-0.142
30	18	7.491	7.324	-0.167
30	19	7.488	7.289	-0.199
30	20	7.395	7.255	-0.140
55	21	7.460	7.301	-0.159
55	22	7.452	7.307	-0.145
55	23	7.450	7.304	-0.146
55	24	7.480	7.357	-0.123
55	25	7.444	7.346	-0.098
55	26	7.433	7.300	-0.133
55	27	7.475	7.313	-0.162
55	28	7.437	7.291	-0.146
55	29	7.483	7.380	-0.103
55	30	7.480	7.331	-0.149
55	31	7.483	7.366	-0.117
55	32	7.474	7.313	-0.161
55	33	7.478	7.309	-0.169
55	34	7.470	7.302	-0.168
55	35	7.484	7.400	-0.084
55	36	7.493	7.331	-0.162
55	37	7.457	7.291	-0.166
55	38	7.453	7.330	-0.123
55	39	7.471	7.342	-0.129
55	40	7.473	7.295	-0.178
55	41	7.492	7.323	-0.169
55	42	7.477	7.270	-0.207
50	43	7.455	7.343	-0.112
50	44	7.505	7.392	-0.113
50	45	7.474	7.345	-0.129
50	46	7.466	7.261	-0.205
50	47	7.473	7.334	-0.139
	Max	7.505	7.478	0.008
	Average	7.461	7.326	-0.135
	Min	7.395	7.248	-0.207
	Std Dev	0.023	0.048	0.042

9.33_T_SYNC_RISE_500kHz_5V

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

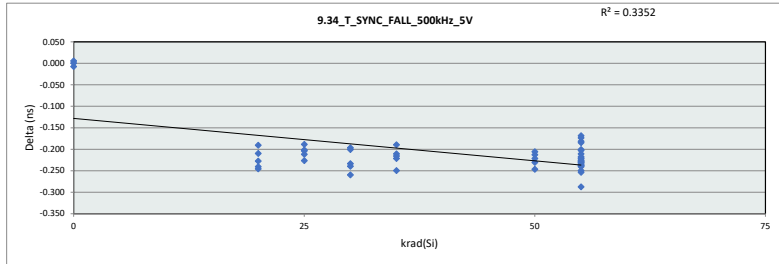
krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.450	7.285	7.315	7.255	7.248	7.261	7.270
Average	7.467	7.308	7.324	7.289	7.306	7.335	7.323
Max	7.478	7.339	7.350	7.324	7.343	7.392	7.400
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000



**HDR TID Report
TPS7H5005-SEP**

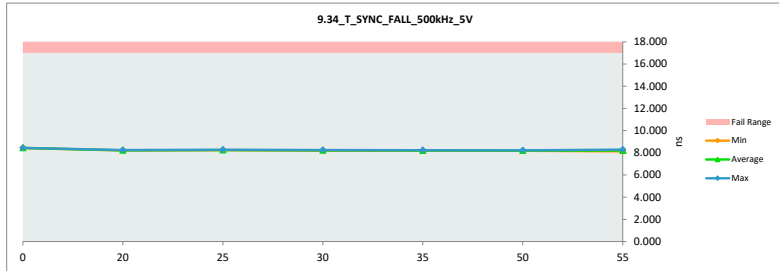
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.34_T_SYNC_FALL_500kHz_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.441	8.441	0.000
0	51	8.437	8.429	-0.008
0	52	8.432	8.437	0.005
25	1	8.458	8.269	-0.189
25	2	8.477	8.250	-0.227
25	3	8.437	8.233	-0.204
25	4	8.445	8.233	-0.212
25	5	8.436	8.234	-0.202
20	6	8.453	8.207	-0.246
20	7	8.447	8.219	-0.228
20	8	8.451	8.210	-0.241
20	9	8.440	8.249	-0.191
20	10	8.436	8.226	-0.210
35	11	8.430	8.180	-0.250
35	12	8.427	8.237	-0.190
35	13	8.435	8.224	-0.211
35	14	8.418	8.196	-0.222
35	15	8.425	8.209	-0.216
30	16	8.443	8.242	-0.201
30	17	8.432	8.235	-0.197
30	18	8.445	8.211	-0.234
30	19	8.452	8.192	-0.260
30	20	8.459	8.219	-0.240
55	21	8.440	8.207	-0.233
55	22	8.409	8.240	-0.169
55	23	8.433	8.215	-0.218
55	24	8.449	8.226	-0.223
55	25	8.439	8.218	-0.221
55	26	8.431	8.193	-0.238
55	27	8.466	8.284	-0.182
55	28	8.416	8.242	-0.174
55	29	8.427	8.199	-0.228
55	30	8.430	8.194	-0.236
55	31	8.419	8.218	-0.201
55	32	8.446	8.192	-0.254
55	33	8.419	8.234	-0.185
55	34	8.433	8.183	-0.250
55	35	8.410	8.171	-0.239
55	36	8.418	8.215	-0.203
55	37	8.472	8.261	-0.211
55	38	8.425	8.194	-0.231
55	39	8.436	8.195	-0.241
55	40	8.412	8.182	-0.230
55	41	8.415	8.127	-0.288
55	42	8.421	8.194	-0.227
50	43	8.416	8.185	-0.231
50	44	8.404	8.191	-0.213
50	45	8.416	8.194	-0.222
50	46	8.428	8.222	-0.206
50	47	8.437	8.190	-0.247
	Max	8.477	8.441	0.005
	Average	8.434	8.227	-0.208
	Min	8.404	8.127	-0.288
	Std Dev	0.016	0.060	0.058

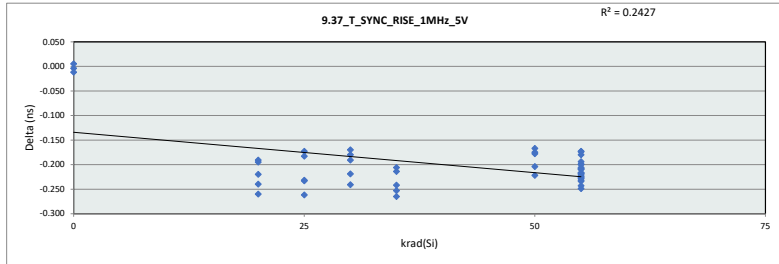
9.34_T_SYNC_FALL_500kHz_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit		ns						
LL								
Min	8.429	8.207	8.233	8.192	8.180	8.185	8.127	
Average	8.436	8.222	8.244	8.220	8.209	8.196	8.208	
Max	8.441	8.249	8.269	8.242	8.237	8.222	8.284	
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	



**HDR TID Report
TPS7H5005-SEP**

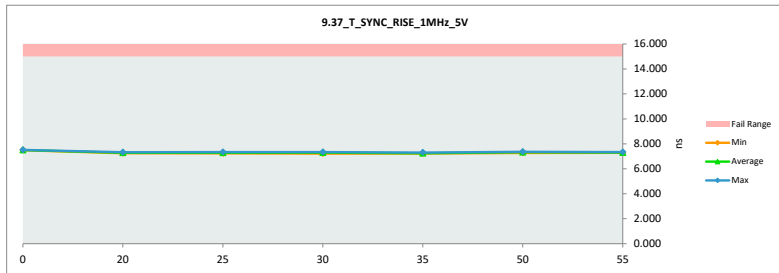
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.37_T_SYNC_RISE_1MHz_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.509	7.514	0.005
0	51	7.501	7.489	-0.012
0	52	7.505	7.501	-0.004
25	1	7.509	7.336	-0.173
25	2	7.482	7.250	-0.232
25	3	7.502	7.240	-0.262
25	4	7.523	7.290	-0.233
25	5	7.485	7.302	-0.183
20	6	7.504	7.244	-0.260
20	7	7.497	7.277	-0.220
20	8	7.517	7.326	-0.191
20	9	7.476	7.281	-0.195
20	10	7.516	7.276	-0.240
35	11	7.463	7.221	-0.242
35	12	7.484	7.219	-0.265
35	13	7.499	7.246	-0.253
35	14	7.505	7.299	-0.206
35	15	7.457	7.243	-0.214
30	16	7.479	7.309	-0.170
30	17	7.479	7.299	-0.180
30	18	7.535	7.344	-0.191
30	19	7.526	7.285	-0.241
30	20	7.434	7.215	-0.219
55	21	7.495	7.278	-0.217
55	22	7.504	7.276	-0.228
55	23	7.495	7.286	-0.209
55	24	7.546	7.314	-0.232
55	25	7.497	7.289	-0.208
55	26	7.494	7.320	-0.174
55	27	7.535	7.335	-0.200
55	28	7.484	7.285	-0.199
55	29	7.515	7.305	-0.210
55	30	7.536	7.318	-0.218
55	31	7.535	7.312	-0.223
55	32	7.529	7.280	-0.249
55	33	7.542	7.325	-0.217
55	34	7.523	7.296	-0.227
55	35	7.536	7.293	-0.243
55	36	7.519	7.299	-0.220
55	37	7.503	7.323	-0.180
55	38	7.503	7.309	-0.194
55	39	7.509	7.303	-0.206
55	40	7.511	7.277	-0.234
55	41	7.510	7.337	-0.173
55	42	7.515	7.290	-0.225
50	43	7.496	7.274	-0.222
50	44	7.544	7.366	-0.178
50	45	7.536	7.332	-0.204
50	46	7.509	7.334	-0.175
50	47	7.491	7.324	-0.167
	Max	7.546	7.514	0.005
	Average	7.506	7.306	-0.200
	Min	7.434	7.215	-0.265
	Std Dev	0.023	0.060	0.056

9.37_T_SYNC_RISE_1MHz_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
LL								
Min	7.489	7.244	7.240	7.215	7.219	7.274	7.276	
Average	7.501	7.281	7.284	7.290	7.246	7.326	7.302	
Max	7.514	7.326	7.336	7.344	7.299	7.344	7.337	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	



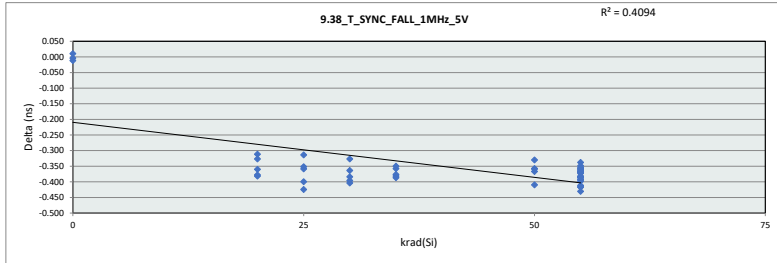
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.38_T_SYNC_FALL_1MHz_5V

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

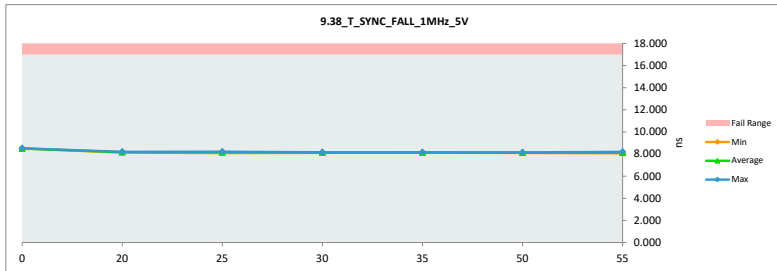
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.510	8.520	0.010
0	51	8.508	8.496	-0.012
0	52	8.512	8.508	-0.004
25	1	8.532	8.218	-0.314
25	2	8.546	8.194	-0.352
25	3	8.511	8.086	-0.425
25	4	8.509	8.109	-0.400
25	5	8.532	8.173	-0.359
20	6	8.517	8.139	-0.378
20	7	8.518	8.158	-0.360
20	8	8.530	8.203	-0.327
20	9	8.483	8.171	-0.312
20	10	8.515	8.133	-0.382
35	11	8.508	8.158	-0.350
35	12	8.502	8.120	-0.382
35	13	8.510	8.123	-0.387
35	14	8.502	8.144	-0.358
35	15	8.503	8.126	-0.377
30	16	8.514	8.130	-0.384
30	17	8.513	8.109	-0.404
30	18	8.522	8.126	-0.396
30	19	8.526	8.162	-0.364
30	20	8.490	8.163	-0.327
55	21	8.503	8.133	-0.370
55	22	8.506	8.123	-0.383
55	23	8.500	8.127	-0.373
55	24	8.525	8.108	-0.417
55	25	8.521	8.137	-0.384
55	26	8.510	8.141	-0.369
55	27	8.532	8.172	-0.360
55	28	8.484	8.146	-0.338
55	29	8.495	8.131	-0.364
55	30	8.500	8.117	-0.383
55	31	8.513	8.158	-0.355
55	32	8.494	8.107	-0.387
55	33	8.493	8.076	-0.417
55	34	8.492	8.106	-0.386
55	35	8.499	8.101	-0.398
55	36	8.492	8.098	-0.394
55	37	8.559	8.201	-0.358
55	38	8.502	8.071	-0.431
55	39	8.504	8.137	-0.367
55	40	8.487	8.075	-0.412
55	41	8.482	8.133	-0.349
55	42	8.494	8.102	-0.392
50	43	8.482	8.115	-0.367
50	44	8.495	8.137	-0.358
50	45	8.482	8.152	-0.330
50	46	8.505	8.146	-0.359
50	47	8.507	8.097	-0.410
	Max	8.559	8.520	0.010
	Average	8.507	8.156	-0.351
	Min	8.482	8.071	-0.431
	Std Dev	0.017	0.095	0.093



9.38_T_SYNC_FALL_1MHz_5V

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

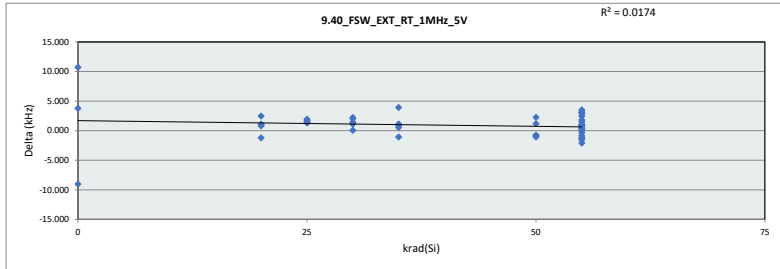
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.496	8.133	8.086	8.109	8.120	8.097	8.071
Average	8.508	8.161	8.156	8.138	8.134	8.129	8.123
Max	8.520	8.203	8.218	8.163	8.158	8.152	8.201
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

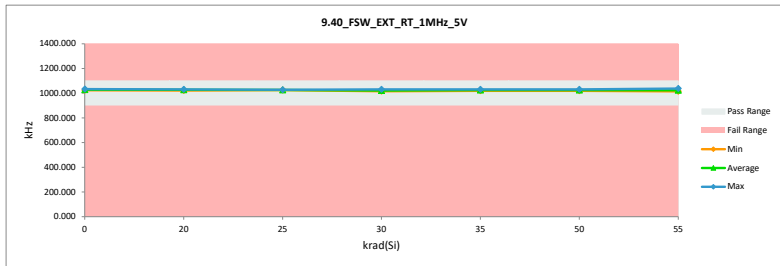
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.40_FSW_EXT_RT_1MHz_5V	
Test Site	
Tester	
Test Number	
Unit	kHz kHz
Max Limit	1100 1100
Min Limit	900 900



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1023.291	1027.030	3.739
0	51	1033.514	1024.458	-9.056
0	52	1022.817	1033.514	10.697
25	1	1023.803	1025.315	1.512
25	2	1024.413	1026.322	1.909
25	3	1024.282	1025.788	1.506
25	4	1026.653	1027.912	1.259
25	5	1024.469	1026.197	1.728
20	6	1028.533	1027.284	-1.249
20	7	1026.313	1027.354	1.041
20	8	1030.078	1030.861	0.783
20	9	1026.694	1027.764	1.070
20	10	1019.327	1021.759	2.432
35	11	1018.260	1018.779	0.519
35	12	1031.701	1030.613	-1.088
35	13	1023.851	1027.756	3.905
35	14	1023.005	1023.892	0.887
35	15	1020.265	1021.358	1.093
30	16	1029.477	1030.892	1.415
30	17	1015.303	1015.320	0.017
30	18	1018.343	1019.407	1.064
30	19	1017.709	1019.718	2.009
30	20	1020.371	1022.573	2.202
55	21	1016.211	1018.613	2.402
55	22	1024.516	1022.983	-1.533
55	23	1036.130	1036.404	0.274
55	24	1020.240	1020.504	0.264
55	25	1025.572	1028.653	3.081
55	26	1011.945	1014.768	2.823
55	27	1024.918	1024.029	-0.889
55	28	1019.613	1017.489	-2.124
55	29	1019.246	1018.887	-0.359
55	30	1028.188	1029.047	0.859
55	31	1020.016	1021.786	1.770
55	32	1036.682	1037.591	0.909
55	33	1017.867	1017.883	0.016
55	34	1025.583	1026.479	0.896
55	35	1021.684	1020.511	-1.173
55	36	1020.050	1020.580	0.530
55	37	1026.896	1025.522	-1.374
55	38	1021.911	1025.391	3.480
55	39	1026.768	1029.871	3.103
55	40	1019.122	1020.577	1.455
55	41	1015.653	1016.514	0.861
55	42	1026.583	1027.602	1.019
50	43	1023.286	1022.494	-0.792
50	44	1024.667	1023.566	-1.101
50	45	1028.401	1029.551	1.150
50	46	1017.524	1019.752	2.228
50	47	1032.023	1031.069	-0.954
	Max	1036.682	1037.591	10.697
	Average	1023.675	1024.600	0.924
	Min	1011.945	1014.768	-9.056
	Std Dev	5.344	5.214	2.459

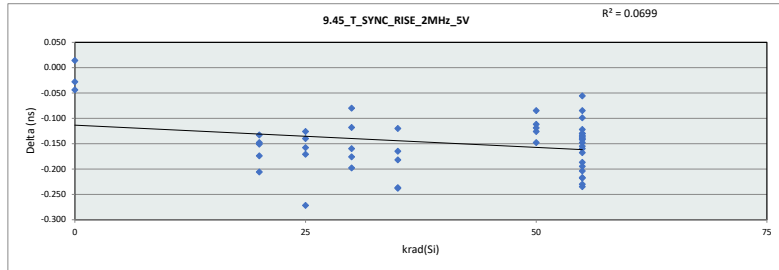
9.40_FSW_EXT_RT_1MHz_5V							
Test Site							
Tester							
Test Number							
Max Limit	1100 kHz						
Min Limit	900 kHz						
krad(Si)	0	20	25	30	35	50	55
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000
Min	1024.458	1021.759	1025.315	1015.320	1018.779	1019.752	1014.768
Average	1028.334	1027.004	1026.307	1021.582	1024.480	1025.286	1023.713
Max	1033.514	1030.861	1027.912	1030.892	1030.613	1031.069	1037.591
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000



**HDR TID Report
TPS7H5005-SEP**

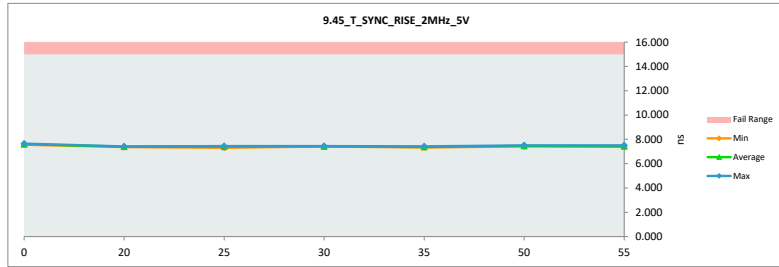
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.45_T_SYNC_RISE_2MHz_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.586	7.558	-0.028
0	51	7.650	7.606	-0.044
0	52	7.636	7.650	0.014
25	1	7.580	7.308	-0.272
25	2	7.543	7.403	-0.140
25	3	7.576	7.450	-0.126
25	4	7.610	7.452	-0.158
25	5	7.569	7.398	-0.171
20	6	7.568	7.362	-0.206
20	7	7.565	7.417	-0.148
20	8	7.587	7.413	-0.174
20	9	7.560	7.409	-0.151
20	10	7.537	7.404	-0.133
35	11	7.565	7.327	-0.238
35	12	7.575	7.393	-0.182
35	13	7.544	7.424	-0.120
35	14	7.614	7.377	-0.237
35	15	7.507	7.342	-0.165
30	16	7.599	7.423	-0.176
30	17	7.548	7.430	-0.118
30	18	7.615	7.417	-0.198
30	19	7.606	7.446	-0.160
30	20	7.488	7.408	-0.080
55	21	7.570	7.402	-0.168
55	22	7.593	7.406	-0.187
55	23	7.583	7.442	-0.141
55	24	7.561	7.505	-0.056
55	25	7.578	7.442	-0.136
55	26	7.550	7.420	-0.130
55	27	7.641	7.406	-0.235
55	28	7.568	7.408	-0.160
55	29	7.567	7.482	-0.085
55	30	7.562	7.463	-0.099
55	31	7.613	7.465	-0.148
55	32	7.639	7.435	-0.204
55	33	7.613	7.383	-0.230
55	34	7.563	7.424	-0.139
55	35	7.612	7.490	-0.122
55	36	7.593	7.398	-0.195
55	37	7.575	7.441	-0.134
55	38	7.563	7.421	-0.142
55	39	7.628	7.411	-0.217
55	40	7.601	7.383	-0.218
55	41	7.579	7.424	-0.155
55	42	7.589	7.459	-0.130
50	43	7.535	7.450	-0.085
50	44	7.590	7.464	-0.126
50	45	7.623	7.504	-0.119
50	46	7.576	7.428	-0.148
50	47	7.571	7.459	-0.112
	Max	7.650	7.650	0.014
	Average	7.581	7.433	-0.149
	Min	7.488	7.308	-0.272
	Std Dev	0.033	0.060	0.056

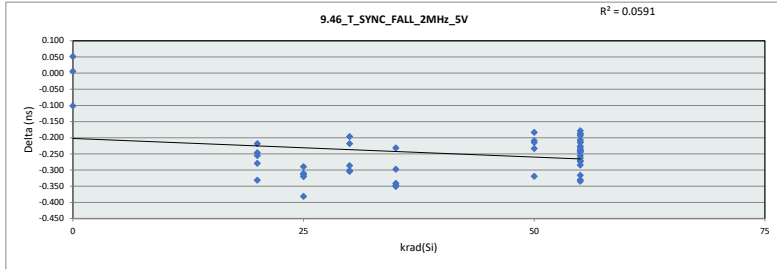
9.45_T_SYNC_RISE_2MHz_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
krad(Si)		0	20	25	30	35	50	55
LL								
Min		7.558	7.362	7.308	7.408	7.327	7.428	7.383
Average		7.605	7.401	7.402	7.425	7.373	7.461	7.432
Max		7.650	7.417	7.452	7.446	7.424	7.504	7.505
UL		15.000	15.000	15.000	15.000	15.000	15.000	15.000



**HDR TID Report
TPS7H5005-SEP**

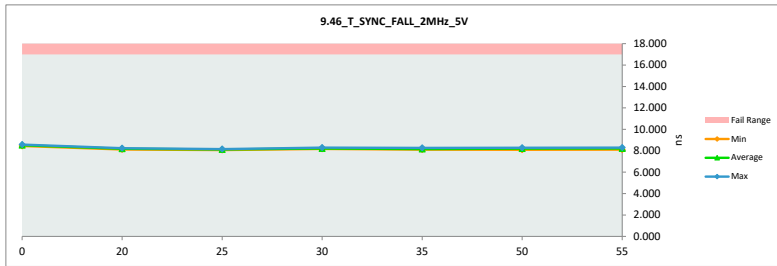
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.46_T_SYNC_FALL_2MHz_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.439	8.444	0.005
0	51	8.523	8.574	0.051
0	52	8.625	8.523	-0.102
25	1	8.453	8.132	-0.321
25	2	8.462	8.151	-0.311
25	3	8.430	8.140	-0.290
25	4	8.445	8.063	-0.382
25	5	8.432	8.117	-0.315
20	6	8.446	8.114	-0.332
20	7	8.488	8.241	-0.247
20	8	8.446	8.166	-0.280
20	9	8.418	8.199	-0.219
20	10	8.424	8.168	-0.256
35	11	8.452	8.101	-0.351
35	12	8.465	8.117	-0.348
35	13	8.430	8.132	-0.298
35	14	8.609	8.267	-0.342
35	15	8.425	8.193	-0.232
30	16	8.594	8.292	-0.302
30	17	8.427	8.230	-0.197
30	18	8.478	8.173	-0.305
30	19	8.434	8.215	-0.219
30	20	8.455	8.168	-0.287
55	21	8.478	8.206	-0.272
55	22	8.440	8.226	-0.214
55	23	8.434	8.099	-0.335
55	24	8.442	8.203	-0.239
55	25	8.466	8.287	-0.179
55	26	8.444	8.256	-0.188
55	27	8.441	8.203	-0.238
55	28	8.403	8.209	-0.194
55	29	8.422	8.215	-0.207
55	30	8.458	8.215	-0.243
55	31	8.503	8.247	-0.256
55	32	8.620	8.289	-0.331
55	33	8.434	8.219	-0.215
55	34	8.425	8.194	-0.231
55	35	8.475	8.201	-0.274
55	36	8.405	8.141	-0.264
55	37	8.498	8.271	-0.227
55	38	8.426	8.237	-0.189
55	39	8.574	8.257	-0.317
55	40	8.418	8.173	-0.245
55	41	8.404	8.119	-0.285
55	42	8.410	8.170	-0.240
50	43	8.445	8.211	-0.234
50	44	8.405	8.190	-0.215
50	45	8.412	8.092	-0.320
50	46	8.432	8.222	-0.210
50	47	8.465	8.281	-0.184
	Max	8.625	8.574	0.051
	Average	8.460	8.211	-0.249
	Min	8.403	8.063	-0.382
	Std Dev	0.056	0.096	0.080

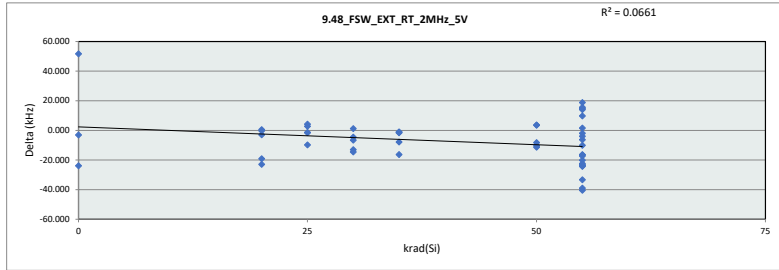
9.46_T_SYNC_FALL_2MHz_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit		ns						
LL								
Min		8.444	8.114	8.063	8.168	8.101	8.092	8.099
Average		8.514	8.178	8.121	8.216	8.162	8.199	8.211
Max		8.574	8.241	8.151	8.292	8.267	8.281	8.289
UL		17.000	17.000	17.000	17.000	17.000	17.000	17.000



HDR TID Report TPS7H5005-SEP

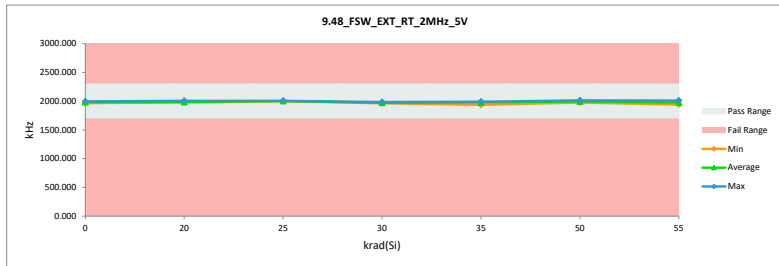
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.48_FSW_EXT_RT_2MHz_5V	
Test Site	
Tester	
Test Number	
Unit	kHz
Max Limit	2300
Min Limit	1700



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1999.959	1996.839	-3.120
0	51	1989.077	1965.152	-23.925
0	52	1937.441	1989.077	51.636
25	1	2001.330	1999.836	-1.494
25	2	1999.857	2002.540	2.683
25	3	2000.661	2004.848	4.187
25	4	2008.964	1999.066	-9.898
25	5	2007.932	2006.365	-1.567
20	6	1988.882	1988.532	-0.350
20	7	2000.914	1981.704	-19.210
20	8	2008.840	2005.830	-3.010
20	9	2000.783	1977.797	-22.986
20	10	1978.632	1979.085	0.453
35	11	1986.657	1984.985	-1.672
35	12	1995.581	1987.628	-7.953
35	13	1988.244	1987.094	-1.150
35	14	1953.119	1936.736	-16.383
35	15	1992.942	1991.607	-1.335
30	16	1971.665	1965.047	-6.618
30	17	1984.807	1970.177	-14.630
30	18	1975.421	1962.395	-13.026
30	19	1990.329	1985.751	-4.578
30	20	1981.542	1982.664	1.122
55	21	1969.187	1945.152	-24.035
55	22	1998.799	1975.180	-23.619
55	23	2012.657	2008.630	-4.027
55	24	1982.745	1980.762	-1.983
55	25	1997.090	1963.699	-33.391
55	26	1969.163	1951.820	-17.343
55	27	1992.546	1970.066	-22.480
55	28	1990.442	1949.935	-40.507
55	29	1983.382	2002.123	18.741
55	30	1997.641	2011.645	14.004
55	31	1995.281	2009.994	14.713
55	32	1962.033	1955.661	-6.372
55	33	1979.864	1940.848	-39.016
55	34	1996.241	1972.830	-23.411
55	35	1990.803	2006.319	15.516
55	36	1982.725	1966.198	-16.527
55	37	1990.967	1992.484	1.517
55	38	1995.441	2005.174	9.733
55	39	1963.667	1953.513	-10.154
55	40	1986.289	1961.905	-24.384
55	41	1986.089	1965.886	-20.203
55	42	2000.303	1983.873	-16.430
50	43	1992.676	1982.192	-10.484
50	44	2001.255	2004.838	3.583
50	45	2008.449	2000.173	-8.276
50	46	1988.461	1977.025	-11.436
50	47	2011.071	2014.522	3.451
	Max	2012.657	2014.522	51.636
	Average	1989.377	1982.064	-7.313
	Min	1937.441	1936.736	-40.507
	Std Dev	15.051	20.375	15.849

9.48_FSW_EXT_RT_2MHz_5V							
Test Site							
Tester							
Test Number							
Max Limit	2300	kHz					
Min Limit	1700	kHz					
krad(Si)	0	20	25	30	35	50	55
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000
Min	1965.152	1977.797	1999.066	1962.395	1936.736	1977.025	1940.848
Average	1983.689	1986.590	2002.531	1973.207	1977.610	1995.750	1976.077
Max	1996.839	2005.830	2006.365	1985.751	1991.607	2014.522	2011.645
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000



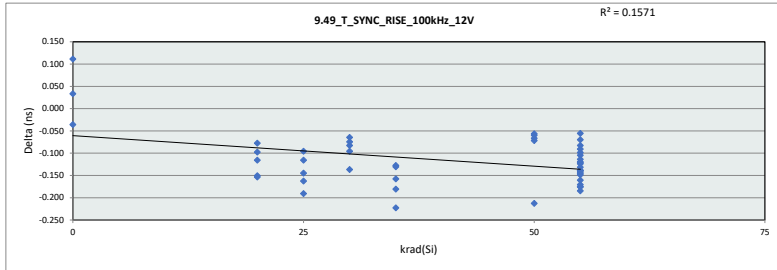
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.49_T_SYNC_RISE_100kHz_12

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

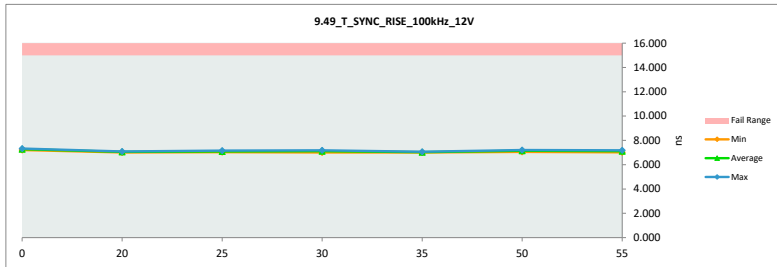
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.244	7.208	-0.036
0	51	7.296	7.329	0.033
0	52	7.185	7.296	0.111
25	1	7.280	7.164	-0.116
25	2	7.206	7.061	-0.145
25	3	7.216	7.025	-0.191
25	4	7.187	7.091	-0.096
25	5	7.246	7.083	-0.163
20	6	7.172	7.021	-0.151
20	7	7.193	7.077	-0.116
20	8	7.163	7.009	-0.154
20	9	7.161	7.063	-0.098
20	10	7.168	7.090	-0.078
35	11	7.189	7.031	-0.158
35	12	7.172	7.044	-0.128
35	13	7.186	7.005	-0.181
35	14	7.198	7.067	-0.131
35	15	7.231	7.008	-0.223
30	16	7.196	7.131	-0.065
30	17	7.264	7.181	-0.083
30	18	7.245	7.170	-0.075
30	19	7.195	7.099	-0.096
30	20	7.143	7.006	-0.137
55	21	7.283	7.159	-0.124
55	22	7.245	7.060	-0.185
55	23	7.224	7.154	-0.070
55	24	7.260	7.114	-0.146
55	25	7.187	7.088	-0.099
55	26	7.250	7.107	-0.143
55	27	7.236	7.116	-0.120
55	28	7.231	7.126	-0.105
55	29	7.238	7.124	-0.114
55	30	7.264	7.093	-0.171
55	31	7.298	7.122	-0.176
55	32	7.275	7.184	-0.091
55	33	7.193	7.054	-0.139
55	34	7.197	7.021	-0.176
55	35	7.205	7.065	-0.140
55	36	7.228	7.145	-0.083
55	37	7.254	7.122	-0.132
55	38	7.230	7.091	-0.139
55	39	7.179	7.057	-0.122
55	40	7.246	7.097	-0.149
55	41	7.217	7.161	-0.056
55	42	7.259	7.098	-0.161
50	43	7.252	7.185	-0.067
50	44	7.285	7.213	-0.072
50	45	7.224	7.167	-0.057
50	46	7.192	7.132	-0.060
50	47	7.270	7.057	-0.213
	Max	7.298	7.329	0.111
	Average	7.223	7.107	-0.116
	Min	7.143	7.005	-0.223
	Std Dev	0.039	0.070	0.058



9.49_T_SYNC_RISE_100kHz

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.208	7.009	7.025	7.006	7.005	7.057	7.021
Average	7.278	7.052	7.085	7.117	7.031	7.151	7.107
Max	7.329	7.090	7.164	7.181	7.067	7.213	7.184
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000



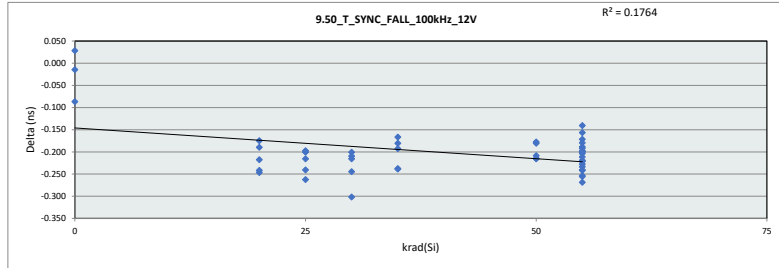
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.50_T_SYNC_FALL_100kHz_12V

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

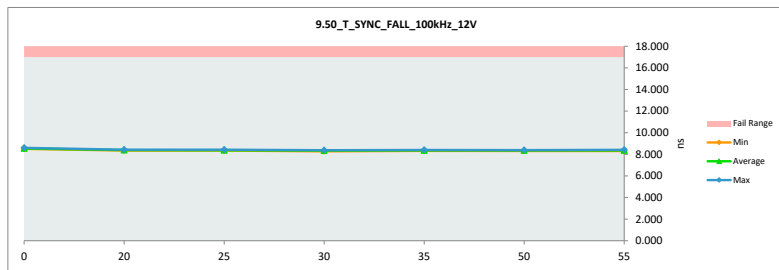
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.568	8.596	0.028
0	51	8.518	8.503	-0.015
0	52	8.605	8.518	-0.087
25	1	8.560	8.344	-0.216
25	2	8.604	8.341	-0.263
25	3	8.596	8.355	-0.241
25	4	8.619	8.421	-0.198
25	5	8.579	8.378	-0.201
20	6	8.615	8.425	-0.190
20	7	8.586	8.339	-0.247
20	8	8.614	8.372	-0.242
20	9	8.582	8.407	-0.175
20	10	8.588	8.370	-0.218
35	11	8.555	8.317	-0.238
35	12	8.581	8.342	-0.239
35	13	8.576	8.395	-0.181
35	14	8.566	8.399	-0.167
35	15	8.536	8.343	-0.193
30	16	8.575	8.273	-0.302
30	17	8.545	8.335	-0.210
30	18	8.579	8.363	-0.216
30	19	8.620	8.375	-0.245
30	20	8.577	8.376	-0.201
55	21	8.550	8.316	-0.234
55	22	8.549	8.408	-0.141
55	23	8.558	8.338	-0.220
55	24	8.543	8.302	-0.241
55	25	8.580	8.368	-0.212
55	26	8.536	8.356	-0.180
55	27	8.585	8.396	-0.189
55	28	8.552	8.330	-0.222
55	29	8.563	8.406	-0.157
55	30	8.552	8.348	-0.204
55	31	8.562	8.362	-0.200
55	32	8.551	8.359	-0.192
55	33	8.591	8.322	-0.269
55	34	8.571	8.371	-0.200
55	35	8.570	8.370	-0.200
55	36	8.569	8.397	-0.172
55	37	8.598	8.344	-0.254
55	38	8.563	8.321	-0.242
55	39	8.592	8.364	-0.228
55	40	8.559	8.303	-0.256
55	41	8.530	8.332	-0.198
55	42	8.560	8.340	-0.220
50	43	8.527	8.311	-0.216
50	44	8.538	8.360	-0.178
50	45	8.551	8.370	-0.181
50	46	8.593	8.384	-0.209
50	47	8.579	8.364	-0.215
Max		8.620	8.596	0.028
Average		8.570	8.369	-0.202
Min		8.518	8.273	-0.302
Std Dev		0.025	0.055	0.056



9.50_T_SYNC_FALL_100kHz

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.503	8.339	8.341	8.273	8.317	8.311	8.302
Average	8.539	8.383	8.368	8.344	8.359	8.358	8.352
Max	8.596	8.425	8.421	8.376	8.399	8.384	8.408
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



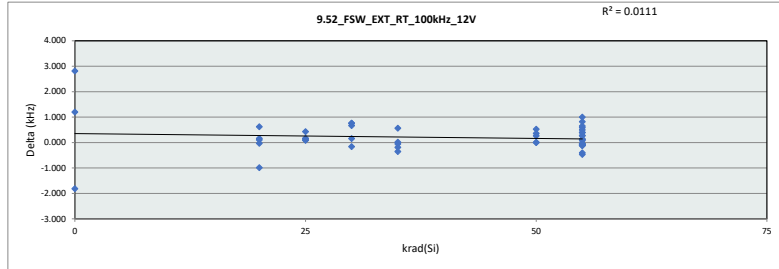
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.52_FSW_EXT_RT_100kHz_12V

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

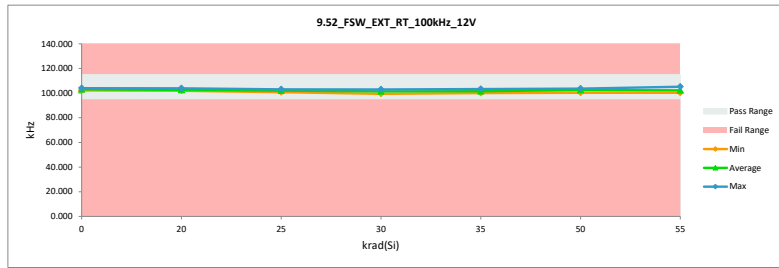
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.816	103.010	1.194
0	51	103.994	102.175	-1.819
0	52	101.185	103.994	2.809
25	1	101.783	101.868	0.085
25	2	100.667	100.759	0.092
25	3	101.369	101.521	0.152
25	4	102.576	102.733	0.157
25	5	102.670	103.093	0.423
20	6	102.879	101.883	-0.996
20	7	102.607	102.571	-0.036
20	8	103.770	103.870	0.100
20	9	101.951	102.566	0.615
20	10	102.048	102.203	0.155
35	11	99.981	99.992	0.011
35	12	103.539	103.177	-0.362
35	13	102.704	103.263	0.559
35	14	100.475	100.281	-0.194
35	15	101.361	101.302	-0.059
30	16	101.545	101.694	0.149
30	17	99.569	99.402	-0.167
30	18	101.479	102.137	0.658
30	19	99.997	100.746	0.749
30	20	102.213	102.971	0.758
55	21	100.710	101.293	0.583
55	22	102.101	102.053	-0.048
55	23	105.304	105.180	-0.124
55	24	102.633	102.505	-0.128
55	25	101.562	101.949	0.387
55	26	99.711	100.353	0.642
55	27	100.468	100.602	0.134
55	28	100.965	100.552	-0.413
55	29	102.037	101.931	-0.106
55	30	104.735	104.844	0.109
55	31	101.884	102.272	0.388
55	32	103.346	103.614	0.268
55	33	100.456	100.526	0.070
55	34	103.177	103.440	0.263
55	35	102.053	102.171	0.118
55	36	101.109	101.041	-0.068
55	37	103.388	103.334	-0.054
55	38	102.259	103.071	0.812
55	39	102.735	103.729	0.994
55	40	102.087	101.615	-0.472
55	41	99.812	100.301	0.489
55	42	103.173	103.078	-0.095
50	43	103.643	103.649	0.006
50	44	102.421	102.774	0.353
50	45	102.685	102.945	0.260
50	46	99.713	100.233	0.520
50	47	102.707	102.697	-0.010
Max		105.304	105.180	2.809
Average		101.981	102.179	0.198
Min		99.569	99.402	-1.819
Std Dev		1.321	1.298	0.614



9.52_FSW_EXT_RT_100kHz_1

Test Site	
Tester	
Test Number	
Max Limit	115 kHz
Min Limit	95 kHz

krad(Si)	0	20	25	30	35	50	55
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	102.175	101.883	100.759	99.402	99.992	100.233	100.301
Average	103.060	102.619	101.995	101.390	101.603	102.460	102.248
Max	103.994	103.870	103.093	102.971	103.263	103.649	105.180
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000

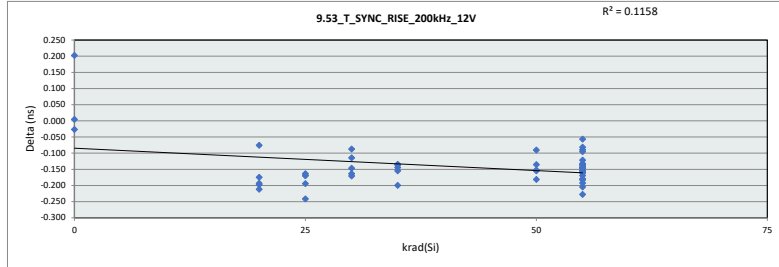


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.53_T_SYNC_RISE_200kHz_12V

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

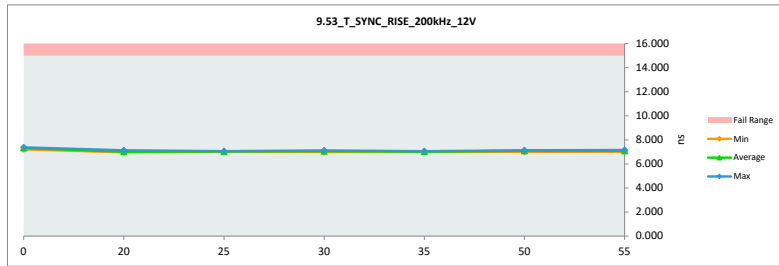


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.235	7.208	-0.027
0	51	7.373	7.377	0.004
0	52	7.171	7.373	0.202
25	1	7.303	7.061	-0.242
25	2	7.235	7.040	-0.195
25	3	7.182	7.012	-0.170
25	4	7.215	7.051	-0.164
25	5	7.206	7.036	-0.170
20	6	7.189	6.995	-0.194
20	7	7.207	7.131	-0.076
20	8	7.176	6.978	-0.198
20	9	7.179	7.004	-0.175
20	10	7.172	6.960	-0.212
35	11	7.194	6.994	-0.200
35	12	7.154	7.009	-0.145
35	13	7.178	7.043	-0.135
35	14	7.180	7.025	-0.155
35	15	7.195	7.058	-0.137
30	16	7.239	7.075	-0.164
30	17	7.211	7.123	-0.088
30	18	7.237	7.066	-0.171
30	19	7.192	7.077	-0.115
30	20	7.139	6.992	-0.147
55	21	7.281	7.111	-0.170
55	22	7.273	7.080	-0.193
55	23	7.204	7.058	-0.146
55	24	7.248	7.152	-0.096
55	25	7.193	7.034	-0.159
55	26	7.244	7.122	-0.122
55	27	7.226	7.071	-0.155
55	28	7.223	7.078	-0.145
55	29	7.227	7.065	-0.162
55	30	7.241	7.102	-0.139
55	31	7.279	7.051	-0.228
55	32	7.288	7.141	-0.147
55	33	7.220	7.015	-0.205
55	34	7.199	7.063	-0.136
55	35	7.202	7.112	-0.090
55	36	7.238	7.055	-0.183
55	37	7.221	7.088	-0.133
55	38	7.229	7.085	-0.144
55	39	7.247	7.067	-0.180
55	40	7.214	7.157	-0.057
55	41	7.245	7.163	-0.082
55	42	7.219	7.065	-0.154
50	43	7.234	7.081	-0.153
50	44	7.273	7.137	-0.136
50	45	7.220	7.129	-0.091
50	46	7.189	7.007	-0.182
50	47	7.209	7.054	-0.155
	Max	7.373	7.377	0.202
	Average	7.221	7.081	-0.140
	Min	7.139	6.960	-0.242
	Std Dev	0.041	0.080	0.069

9.53_T_SYNC_RISE_200kHz

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.208	6.960	7.012	6.992	6.994	7.007	7.015
Average	7.319	7.014	7.040	7.067	7.026	7.082	7.088
Max	7.377	7.131	7.061	7.123	7.058	7.137	7.163
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000



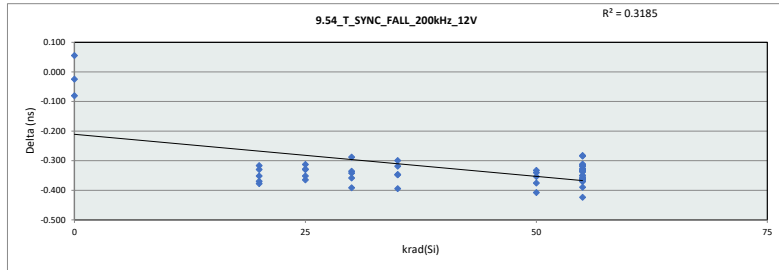
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.54_T_SYNC_FALL_200kHz_12V

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

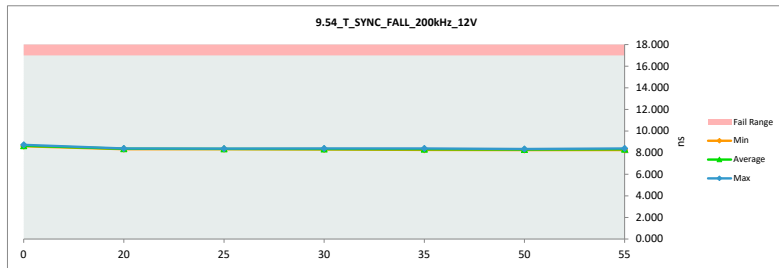
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.662	8.717	0.055
0	51	8.613	8.588	-0.025
0	52	8.694	8.613	-0.081
25	1	8.660	8.308	-0.352
25	2	8.697	8.332	-0.365
25	3	8.690	8.360	-0.330
25	4	8.682	8.369	-0.313
25	5	8.679	8.350	-0.329
20	6	8.710	8.340	-0.370
20	7	8.693	8.315	-0.378
20	8	8.706	8.376	-0.330
20	9	8.691	8.374	-0.317
20	10	8.691	8.339	-0.352
35	11	8.640	8.245	-0.395
35	12	8.682	8.382	-0.300
35	13	8.664	8.317	-0.347
35	14	8.666	8.318	-0.348
35	15	8.644	8.325	-0.319
30	16	8.669	8.381	-0.288
30	17	8.644	8.285	-0.359
30	18	8.678	8.336	-0.342
30	19	8.719	8.327	-0.392
30	20	8.669	8.333	-0.336
55	21	8.633	8.272	-0.361
55	22	8.636	8.272	-0.364
55	23	8.663	8.273	-0.390
55	24	8.657	8.374	-0.283
55	25	8.681	8.330	-0.351
55	26	8.628	8.271	-0.357
55	27	8.676	8.349	-0.327
55	28	8.642	8.306	-0.336
55	29	8.666	8.348	-0.318
55	30	8.660	8.375	-0.285
55	31	8.659	8.347	-0.312
55	32	8.640	8.326	-0.314
55	33	8.690	8.319	-0.371
55	34	8.648	8.318	-0.330
55	35	8.691	8.353	-0.338
55	36	8.652	8.302	-0.350
55	37	8.675	8.355	-0.320
55	38	8.655	8.286	-0.369
55	39	8.701	8.339	-0.362
55	40	8.662	8.238	-0.424
55	41	8.638	8.305	-0.333
55	42	8.655	8.318	-0.337
50	43	8.617	8.276	-0.341
50	44	8.617	8.241	-0.376
50	45	8.651	8.318	-0.333
50	46	8.686	8.278	-0.408
50	47	8.686	8.332	-0.354
	Max	8.719	8.717	0.055
	Average	8.666	8.341	-0.325
	Min	8.613	8.238	-0.424
	Std Dev	0.025	0.086	0.085



9.54_T_SYNC_FALL_200kHz

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.588	8.315	8.308	8.285	8.245	8.241	8.238
Average	8.639	8.349	8.344	8.332	8.317	8.289	8.317
Max	8.717	8.376	8.369	8.381	8.382	8.332	8.375
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000

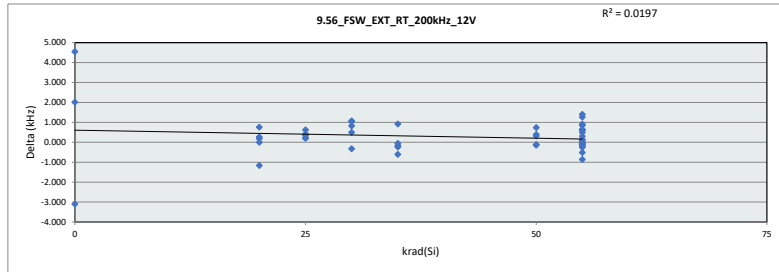


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

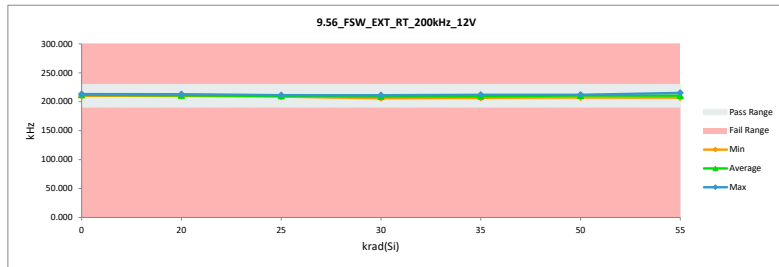
9.56_FSW_EXT_RT_200kHz_12V	
Test Site	
Tester	
Test Number	
Unit	kHz kHz
Max Limit	230 230
Min Limit	190 190

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	209.850	211.858	2.008
0	51	213.373	210.265	-3.108
0	52	208.830	213.373	4.543
25	1	209.733	209.942	0.209
25	2	208.451	208.789	0.338
25	3	208.929	209.336	0.407
25	4	210.999	211.200	0.201
25	5	210.775	211.393	0.618
20	6	211.460	210.294	-1.166
20	7	210.926	210.922	-0.004
20	8	212.797	212.984	0.187
20	9	210.215	210.968	0.753
20	10	209.869	210.129	0.260
35	11	206.993	206.934	-0.059
35	12	212.476	211.865	-0.611
35	13	211.046	211.961	0.915
35	14	207.911	207.665	-0.246
35	15	209.180	209.011	-0.169
30	16	209.798	210.292	0.494
30	17	206.343	206.014	-0.329
30	18	208.936	209.759	0.823
30	19	207.247	208.273	1.026
30	20	210.347	211.415	1.068
55	21	207.754	208.593	0.839
55	22	210.543	210.284	-0.259
55	23	215.468	215.275	-0.193
55	24	210.746	210.583	-0.163
55	25	209.682	210.273	0.591
55	26	206.275	207.180	0.905
55	27	208.199	208.192	-0.007
55	28	208.441	207.574	-0.867
55	29	209.890	209.817	-0.073
55	30	214.352	214.492	0.140
55	31	209.877	210.478	0.601
55	32	212.620	213.110	0.490
55	33	207.801	207.884	0.083
55	34	211.833	212.131	0.298
55	35	210.102	210.052	-0.050
55	36	208.884	208.794	-0.090
55	37	212.120	212.066	-0.054
55	38	210.362	211.626	1.264
55	39	211.242	212.643	1.401
55	40	209.861	209.346	-0.515
55	41	206.602	207.252	0.650
55	42	211.831	211.720	-0.111
50	43	212.073	211.956	-0.117
50	44	210.834	211.147	0.313
50	45	211.390	211.777	0.387
50	46	206.521	207.251	0.730
50	47	211.874	211.725	-0.149
	Max	215.468	215.275	4.543
	Average	210.073	210.357	0.284
	Min	206.275	206.014	-3.108
	Std Dev	2.053	2.023	0.971



9.56_FSW_EXT_RT_200kHz_1	
Test Site	
Tester	
Test Number	
Max Limit	230 kHz
Min Limit	190 kHz

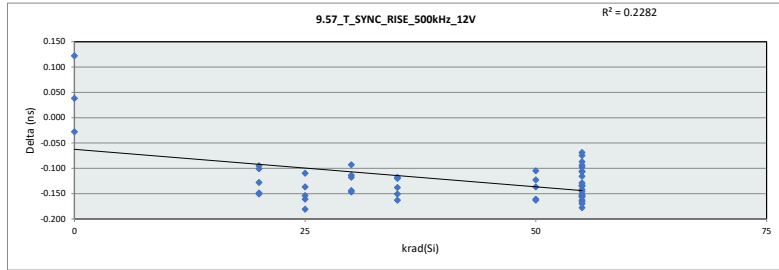
krad(Si)	0	20	25	30	35	50	55
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	210.265	210.129	208.789	206.014	206.934	207.251	207.180
Average	211.832	211.059	210.132	209.151	209.487	210.771	210.426
Max	213.373	212.984	211.393	211.415	211.961	211.956	215.275
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000



**HDR TID Report
TPS7H5005-SEP**

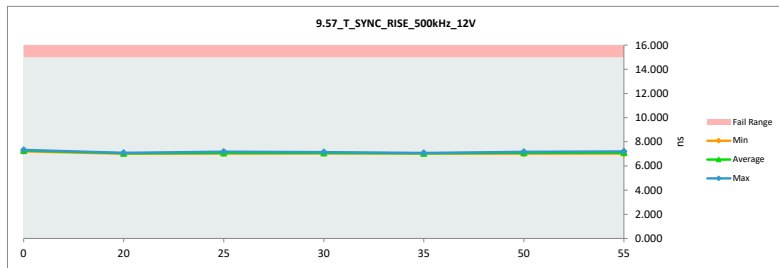
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.57_T_SYNC_RISE_500kHz_12	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.235	7.207	-0.028
0	51	7.290	7.328	0.038
0	52	7.168	7.290	0.122
25	1	7.287	7.177	-0.110
25	2	7.207	7.026	-0.181
25	3	7.199	7.038	-0.161
25	4	7.197	7.060	-0.137
25	5	7.210	7.056	-0.154
20	6	7.168	7.019	-0.149
20	7	7.209	7.081	-0.128
20	8	7.165	7.014	-0.151
20	9	7.153	7.052	-0.101
20	10	7.170	7.075	-0.095
35	11	7.188	7.037	-0.151
35	12	7.146	7.026	-0.120
35	13	7.201	7.038	-0.163
35	14	7.171	7.053	-0.118
35	15	7.214	7.076	-0.138
30	16	7.185	7.038	-0.147
30	17	7.240	7.147	-0.093
30	18	7.241	7.097	-0.144
30	19	7.176	7.058	-0.118
30	20	7.148	7.034	-0.114
55	21	7.280	7.211	-0.069
55	22	7.224	7.089	-0.135
55	23	7.208	7.092	-0.116
55	24	7.255	7.180	-0.075
55	25	7.188	7.059	-0.129
55	26	7.223	7.129	-0.094
55	27	7.231	7.061	-0.170
55	28	7.224	7.117	-0.107
55	29	7.200	7.102	-0.098
55	30	7.253	7.111	-0.142
55	31	7.285	7.179	-0.106
55	32	7.283	7.129	-0.154
55	33	7.196	7.039	-0.157
55	34	7.196	7.033	-0.163
55	35	7.204	7.058	-0.146
55	36	7.213	7.126	-0.087
55	37	7.244	7.066	-0.178
55	38	7.223	7.089	-0.134
55	39	7.173	7.021	-0.152
55	40	7.212	7.077	-0.135
55	41	7.225	7.059	-0.166
55	42	7.227	7.072	-0.155
50	43	7.255	7.132	-0.123
50	44	7.278	7.173	-0.105
50	45	7.225	7.088	-0.137
50	46	7.183	7.020	-0.163
50	47	7.205	7.044	-0.161
	Max	7.290	7.328	0.122
	Average	7.214	7.092	-0.122
	Min	7.146	7.014	-0.181
	Std Dev	0.038	0.068	0.052

9.57_T_SYNC_RISE_500kHz								
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	7.207	7.014	7.026	7.034	7.026	7.020	7.021	
Average	7.275	7.048	7.071	7.075	7.046	7.091	7.095	
Max	7.328	7.081	7.177	7.147	7.076	7.173	7.211	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	



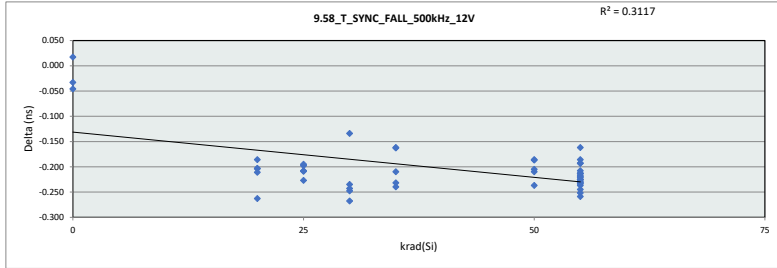
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.58_T_SYNC_FALL_500kHz_12

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

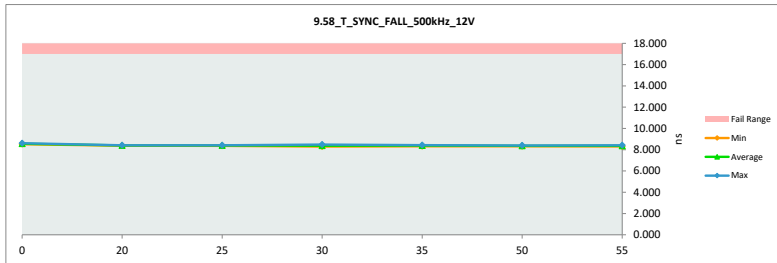
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.593	8.610	0.017
0	51	8.549	8.516	-0.033
0	52	8.595	8.549	-0.046
25	1	8.566	8.358	-0.208
25	2	8.644	8.417	-0.227
25	3	8.620	8.411	-0.209
25	4	8.614	8.416	-0.198
25	5	8.589	8.394	-0.195
20	6	8.630	8.367	-0.263
20	7	8.595	8.409	-0.186
20	8	8.616	8.405	-0.211
20	9	8.601	8.397	-0.204
20	10	8.618	8.415	-0.203
35	11	8.566	8.326	-0.240
35	12	8.594	8.432	-0.162
35	13	8.593	8.383	-0.210
35	14	8.605	8.373	-0.232
35	15	8.559	8.396	-0.163
30	16	8.601	8.366	-0.235
30	17	8.562	8.294	-0.268
30	18	8.610	8.476	-0.134
30	19	8.636	8.393	-0.243
30	20	8.592	8.344	-0.248
55	21	8.553	8.367	-0.186
55	22	8.562	8.333	-0.229
55	23	8.575	8.382	-0.193
55	24	8.583	8.421	-0.162
55	25	8.579	8.354	-0.225
55	26	8.561	8.341	-0.220
55	27	8.613	8.361	-0.252
55	28	8.556	8.322	-0.234
55	29	8.616	8.391	-0.225
55	30	8.577	8.359	-0.218
55	31	8.587	8.350	-0.237
55	32	8.550	8.305	-0.245
55	33	8.599	8.340	-0.259
55	34	8.598	8.372	-0.226
55	35	8.593	8.385	-0.208
55	36	8.591	8.359	-0.232
55	37	8.603	8.390	-0.213
55	38	8.580	8.359	-0.221
55	39	8.614	8.400	-0.214
55	40	8.558	8.365	-0.193
55	41	8.547	8.334	-0.213
55	42	8.602	8.370	-0.232
50	43	8.539	8.329	-0.210
50	44	8.558	8.321	-0.237
50	45	8.567	8.380	-0.187
50	46	8.600	8.395	-0.205
50	47	8.577	8.391	-0.186
	Max	8.644	8.610	0.017
	Average	8.588	8.384	-0.203
	Min	8.539	8.294	-0.268
	Std Dev	0.025	0.057	0.054



9.58_T_SYNC_FALL_500kHz

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

krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.516	8.367	8.358	8.294	8.326	8.321	8.305
Average	8.558	8.399	8.399	8.375	8.382	8.363	8.362
Max	8.610	8.415	8.417	8.476	8.432	8.395	8.421
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000

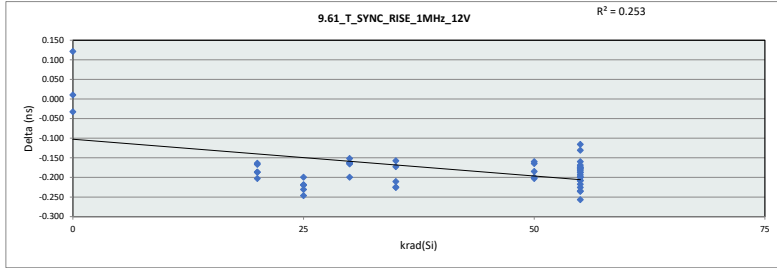


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.61_T_SYNC_RISE_1MHz_12V

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

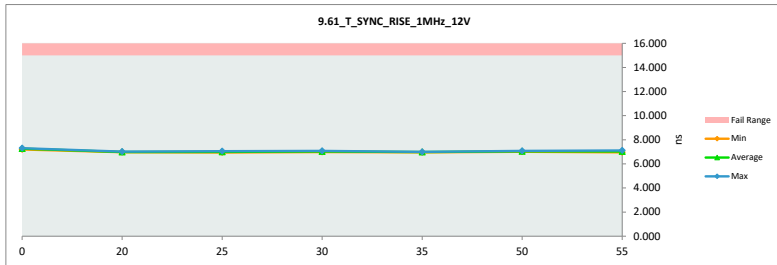


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.228	7.195	-0.033
0	51	7.291	7.301	0.010
0	52	7.170	7.291	0.121
25	1	7.282	7.051	-0.231
25	2	7.227	7.007	-0.220
25	3	7.190	6.971	-0.219
25	4	7.190	6.943	-0.247
25	5	7.196	6.996	-0.200
20	6	7.161	6.974	-0.187
20	7	7.186	7.022	-0.164
20	8	7.178	6.975	-0.203
20	9	7.138	6.971	-0.167
20	10	7.156	6.969	-0.187
35	11	7.170	6.997	-0.173
35	12	7.153	6.995	-0.158
35	13	7.203	6.978	-0.225
35	14	7.186	6.960	-0.226
35	15	7.202	6.991	-0.211
30	16	7.179	7.013	-0.166
30	17	7.234	7.071	-0.163
30	18	7.241	7.041	-0.200
30	19	7.166	7.014	-0.152
30	20	7.139	6.976	-0.163
55	21	7.273	7.073	-0.200
55	22	7.217	7.042	-0.175
55	23	7.197	7.028	-0.169
55	24	7.244	7.067	-0.177
55	25	7.183	7.052	-0.131
55	26	7.225	7.065	-0.160
55	27	7.227	7.111	-0.116
55	28	7.214	7.040	-0.174
55	29	7.233	7.024	-0.209
55	30	7.245	7.063	-0.182
55	31	7.288	7.100	-0.188
55	32	7.284	7.097	-0.187
55	33	7.160	6.981	-0.179
55	34	7.189	6.953	-0.236
55	35	7.187	6.993	-0.194
55	36	7.225	6.999	-0.226
55	37	7.235	7.000	-0.235
55	38	7.225	7.025	-0.200
55	39	7.166	6.958	-0.208
55	40	7.229	7.029	-0.200
55	41	7.236	7.018	-0.218
55	42	7.219	6.962	-0.257
50	43	7.239	7.054	-0.185
50	44	7.274	7.071	-0.203
50	45	7.226	7.066	-0.160
50	46	7.189	7.024	-0.165
50	47	7.200	7.000	-0.200
	Max	7.291	7.301	0.121
	Average	7.210	7.032	-0.178
	Min	7.138	6.943	-0.257
	Std Dev	0.039	0.073	0.063

9.61_T_SYNC_RISE_1MHz_12

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

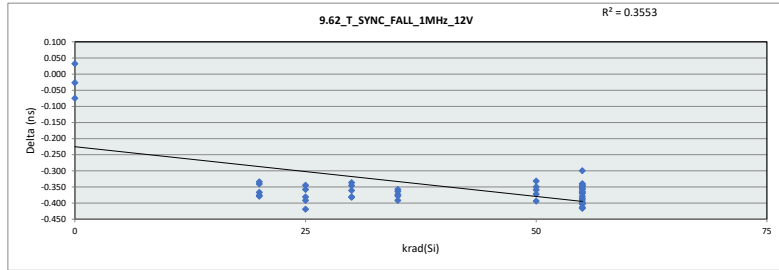
krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.195	6.969	6.943	6.976	6.960	7.000	6.953
Average	7.262	6.982	6.994	7.023	6.984	7.043	7.031
Max	7.301	7.022	7.051	7.071	6.997	7.071	7.111
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000



**HDR TID Report
TPS7H5005-SEP**

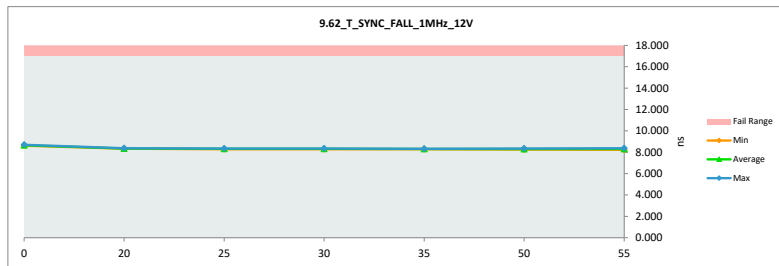
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.62_T_SYNC_FALL_1MHz_12V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.665	8.697	0.032
0	51	8.644	8.617	-0.027
0	52	8.719	8.644	-0.075
25	1	8.656	8.275	-0.381
25	2	8.717	8.298	-0.419
25	3	8.714	8.322	-0.392
25	4	8.695	8.350	-0.345
25	5	8.697	8.339	-0.358
20	6	8.712	8.333	-0.379
20	7	8.699	8.332	-0.367
20	8	8.714	8.373	-0.341
20	9	8.687	8.353	-0.334
20	10	8.711	8.335	-0.376
35	11	8.666	8.292	-0.374
35	12	8.686	8.322	-0.364
35	13	8.688	8.296	-0.392
35	14	8.675	8.317	-0.358
35	15	8.655	8.277	-0.378
30	16	8.688	8.342	-0.346
30	17	8.664	8.282	-0.382
30	18	8.689	8.352	-0.337
30	19	8.725	8.344	-0.381
30	20	8.671	8.310	-0.361
55	21	8.642	8.273	-0.369
55	22	8.658	8.256	-0.402
55	23	8.678	8.322	-0.356
55	24	8.675	8.324	-0.351
55	25	8.692	8.292	-0.400
55	26	8.659	8.313	-0.346
55	27	8.677	8.377	-0.300
55	28	8.666	8.308	-0.358
55	29	8.687	8.302	-0.385
55	30	8.668	8.304	-0.364
55	31	8.671	8.305	-0.366
55	32	8.644	8.231	-0.413
55	33	8.692	8.322	-0.370
55	34	8.676	8.334	-0.342
55	35	8.691	8.344	-0.347
55	36	8.686	8.270	-0.416
55	37	8.694	8.315	-0.379
55	38	8.672	8.332	-0.340
55	39	8.705	8.315	-0.390
55	40	8.669	8.266	-0.403
55	41	8.659	8.262	-0.397
55	42	8.684	8.268	-0.416
50	43	8.627	8.255	-0.372
50	44	8.641	8.247	-0.394
50	45	8.661	8.302	-0.359
50	46	8.701	8.351	-0.350
50	47	8.674	8.342	-0.332
	Max	8.725	8.697	0.032
	Average	8.680	8.331	-0.349
	Min	8.627	8.231	-0.419
	Std Dev	0.023	0.089	0.087

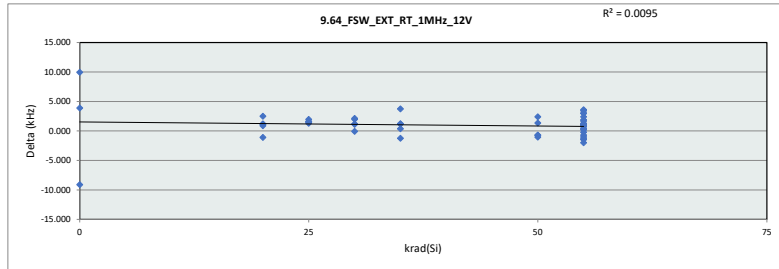
9.62_T_SYNC_FALL_1MHz_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit		ns						
krad(Si)								
LL								
Min	8.617	8.332	8.275	8.282	8.277	8.247	8.231	
Average	8.653	8.345	8.317	8.326	8.301	8.299	8.302	
Max	8.697	8.373	8.350	8.352	8.322	8.351	8.377	
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	



**HDR TID Report
TPS7H5005-SEP**

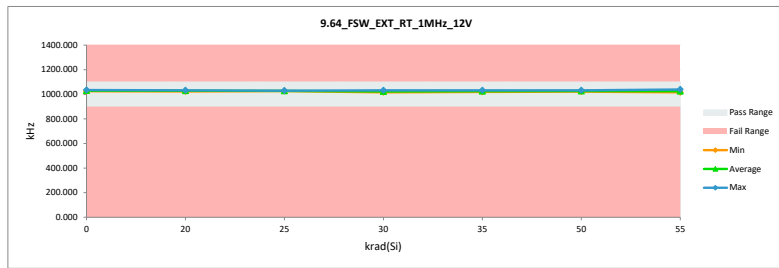
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.64_FSW_EXT_RT_1MHz_12V	
Test Site	
Tester	
Test Number	
Unit	kHz
Max Limit	1100
Min Limit	900



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1024.476	1028.355	3.879
0	51	1034.612	1025.478	-9.134
0	52	1024.683	1034.612	9.929
25	1	1024.769	1026.360	1.591
25	2	1025.640	1027.583	1.943
25	3	1025.884	1027.358	1.474
25	4	1028.236	1029.525	1.289
25	5	1025.778	1027.304	1.526
20	6	1030.065	1028.946	-1.119
20	7	1027.707	1028.813	1.106
20	8	1031.643	1032.515	0.872
20	9	1028.217	1029.392	1.175
20	10	1020.757	1023.224	2.467
35	11	1019.685	1020.035	0.350
35	12	1033.386	1032.137	-1.249
35	13	1025.280	1029.013	3.733
35	14	1024.650	1025.832	1.182
35	15	1021.336	1022.523	1.187
30	16	1031.209	1032.371	1.162
30	17	1016.432	1016.338	-0.094
30	18	1019.737	1020.858	1.121
30	19	1019.475	1021.434	1.959
30	20	1021.595	1023.706	2.111
55	21	1017.336	1019.722	2.386
55	22	1025.708	1024.220	-1.488
55	23	1037.349	1037.794	0.445
55	24	1021.429	1021.731	0.302
55	25	1027.048	1030.446	3.398
55	26	1013.195	1016.182	2.987
55	27	1026.398	1025.682	-0.716
55	28	1020.901	1018.888	-2.013
55	29	1020.417	1020.179	-0.238
55	30	1029.316	1030.299	0.983
55	31	1021.009	1022.883	1.874
55	32	1038.012	1039.163	1.151
55	33	1019.548	1019.721	0.173
55	34	1027.056	1028.101	1.045
55	35	1023.054	1022.008	-1.046
55	36	1021.453	1022.224	0.771
55	37	1028.031	1026.661	-1.370
55	38	1023.125	1026.711	3.586
55	39	1028.563	1031.541	2.978
55	40	1020.464	1022.145	1.681
55	41	1017.152	1018.178	1.026
55	42	1027.952	1029.211	1.259
50	43	1024.478	1023.749	-0.729
50	44	1025.907	1024.843	-1.064
50	45	1029.686	1031.012	1.326
50	46	1019.022	1021.397	2.375
50	47	1033.212	1032.469	-0.743
	Max	1038.012	1039.163	9.929
	Average	1025.041	1026.017	0.976
	Min	1013.195	1016.182	-9.134
	Std Dev	5.362	5.242	2.401

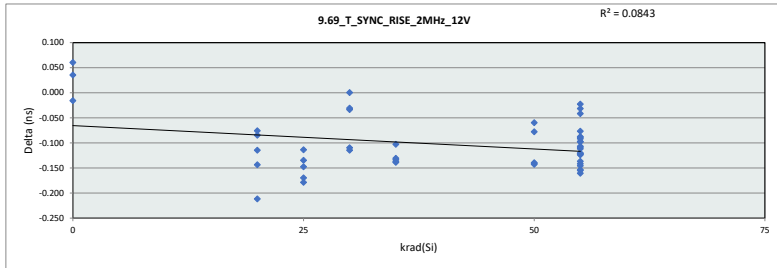
9.64_FSW_EXT_RT_1MHz_12V								
Test Site								
Tester								
Test Number								
Max Limit	1100	kHz						
Min Limit	900	kHz						
krad(Si)	0	20	25	30	35	50	55	
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000	
Min	1025.478	1023.224	1026.360	1016.338	1020.035	1021.397	1016.182	
Average	1029.482	1028.578	1027.626	1022.941	1025.908	1026.694	1025.168	
Max	1034.612	1032.515	1029.525	1032.371	1032.137	1032.469	1039.163	
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	



**HDR TID Report
TPS7H5005-SEP**

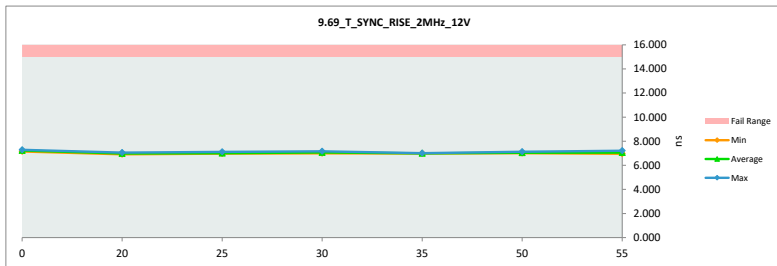
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.69_T_SYNC_RISE_2MHz_12V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.163	7.147	-0.016
0	51	7.252	7.287	0.035
0	52	7.192	7.252	0.060
25	1	7.224	7.110	-0.114
25	2	7.153	6.983	-0.170
25	3	7.116	6.968	-0.148
25	4	7.143	7.008	-0.135
25	5	7.170	6.991	-0.179
20	6	7.103	6.959	-0.144
20	7	7.134	7.058	-0.076
20	8	7.126	6.914	-0.212
20	9	7.094	6.979	-0.115
20	10	7.077	6.992	-0.085
35	11	7.131	6.993	-0.138
35	12	7.121	6.987	-0.134
35	13	7.105	7.002	-0.103
35	14	7.139	7.008	-0.131
35	15	7.141	7.002	-0.139
30	16	7.136	7.026	-0.110
30	17	7.159	7.159	0.000
30	18	7.193	7.159	-0.034
30	19	7.112	6.997	-0.115
30	20	7.041	7.010	-0.031
55	21	7.232	7.095	-0.137
55	22	7.169	7.045	-0.124
55	23	7.171	7.016	-0.155
55	24	7.163	7.121	-0.042
55	25	7.127	7.018	-0.109
55	26	7.157	7.011	-0.146
55	27	7.181	7.083	-0.098
55	28	7.139	7.116	-0.023
55	29	7.145	7.047	-0.098
55	30	7.174	7.085	-0.089
55	31	7.207	7.115	-0.092
55	32	7.243	7.211	-0.032
55	33	7.118	6.964	-0.154
55	34	7.128	6.986	-0.142
55	35	7.134	7.046	-0.088
55	36	7.164	7.052	-0.112
55	37	7.157	7.080	-0.077
55	38	7.150	7.029	-0.121
55	39	7.118	6.995	-0.123
55	40	7.141	7.020	-0.121
55	41	7.151	7.044	-0.107
55	42	7.153	6.992	-0.161
50	43	7.179	7.038	-0.141
50	44	7.205	7.127	-0.078
50	45	7.164	7.024	-0.140
50	46	7.088	7.028	-0.060
50	47	7.153	7.010	-0.143
	Max	7.252	7.287	0.060
	Average	7.151	7.048	-0.103
	Min	7.041	6.914	-0.212
	Std Dev	0.041	0.076	0.054

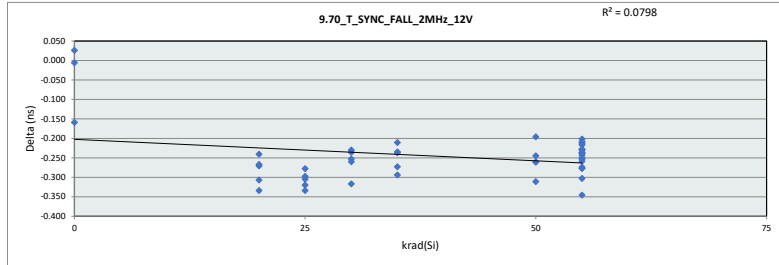
9.69_T_SYNC_RISE_2MHz_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
krad(Si)								
LL								
Min		7.147	6.914	6.968	6.997	6.987	7.010	6.964
Average		7.229	6.980	7.012	7.070	6.998	7.045	7.053
Max		7.287	7.058	7.110	7.159	7.008	7.127	7.211
UL		15.000	15.000	15.000	15.000	15.000	15.000	15.000



**HDR TID Report
TPS7H5005-SEP**

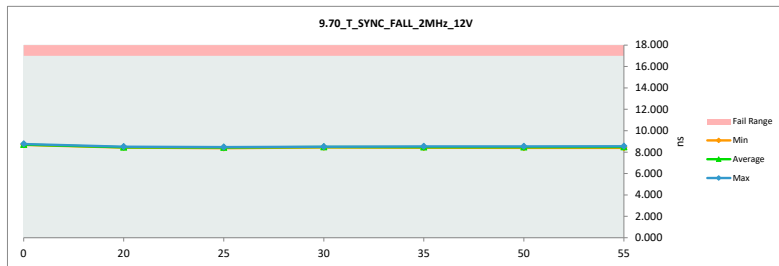
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.70_T_SYNC_FALL_2MHz_12V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	17
Min Limit	17



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.730	8.756	0.026
0	51	8.681	8.675	-0.006
0	52	8.840	8.681	-0.159
25	1	8.704	8.370	-0.334
25	2	8.768	8.470	-0.298
25	3	8.767	8.462	-0.305
25	4	8.772	8.452	-0.320
25	5	8.714	8.436	-0.278
20	6	8.760	8.426	-0.334
20	7	8.725	8.454	-0.271
20	8	8.745	8.504	-0.241
20	9	8.735	8.428	-0.307
20	10	8.727	8.460	-0.267
35	11	8.702	8.408	-0.294
35	12	8.716	8.505	-0.211
35	13	8.721	8.484	-0.237
35	14	8.771	8.536	-0.235
35	15	8.694	8.421	-0.273
30	16	8.739	8.486	-0.253
30	17	8.680	8.444	-0.236
30	18	8.764	8.447	-0.317
30	19	8.759	8.499	-0.260
30	20	8.715	8.485	-0.230
55	21	8.672	8.395	-0.277
55	22	8.679	8.451	-0.228
55	23	8.717	8.500	-0.217
55	24	8.689	8.475	-0.214
55	25	8.726	8.497	-0.229
55	26	8.687	8.458	-0.229
55	27	8.749	8.540	-0.209
55	28	8.697	8.458	-0.239
55	29	8.734	8.431	-0.303
55	30	8.724	8.473	-0.251
55	31	8.739	8.486	-0.253
55	32	8.837	8.491	-0.346
55	33	8.727	8.468	-0.259
55	34	8.728	8.454	-0.274
55	35	8.743	8.533	-0.210
55	36	8.714	8.470	-0.244
55	37	8.749	8.512	-0.237
55	38	8.712	8.510	-0.202
55	39	8.745	8.493	-0.252
55	40	8.708	8.431	-0.277
55	41	8.722	8.486	-0.236
55	42	8.715	8.477	-0.238
50	43	8.702	8.457	-0.245
50	44	8.707	8.396	-0.311
50	45	8.713	8.452	-0.261
50	46	8.730	8.534	-0.196
50	47	8.752	8.491	-0.261
	Max	8.840	8.756	0.026
	Average	8.729	8.482	-0.247
	Min	8.672	8.370	-0.346
	Std Dev	0.034	0.068	0.066

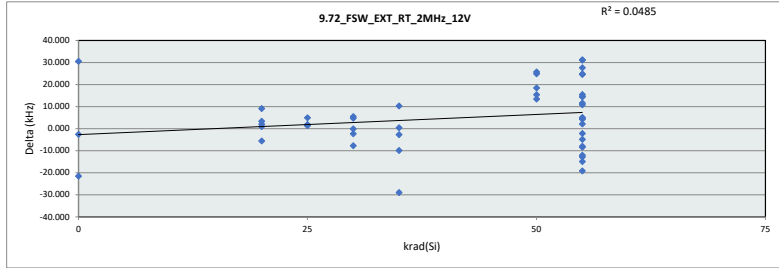
9.70_T_SYNC_FALL_2MHz_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit		ns						
LL								
Min		8.675	8.426	8.370	8.444	8.408	8.396	8.395
Average		8.704	8.454	8.438	8.472	8.471	8.466	8.477
Max		8.756	8.504	8.470	8.499	8.536	8.534	8.540
UL		17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

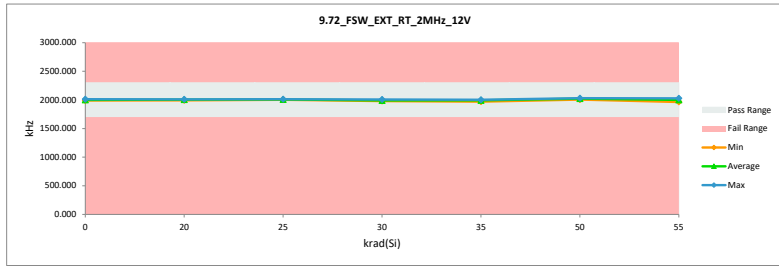
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.72_FSW_EXT_RT_2MHz_12V	
Test Site	
Tester	
Test Number	
Unit	kHz
Max Limit	2300
Min Limit	1700



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	2000.264	1997.651	-2.613
0	51	2012.133	1990.562	-21.571
0	52	1981.604	2012.133	30.529
25	1	2000.006	2001.602	1.596
25	2	2000.890	2005.793	4.903
25	3	2011.319	2013.132	1.813
25	4	2009.409	2010.800	1.391
25	5	2008.477	2009.914	1.437
20	6	2005.581	2008.903	3.322
20	7	2006.728	2008.694	1.966
20	8	2010.192	2011.068	0.876
20	9	2009.718	2004.081	-5.637
20	10	1982.473	1991.546	9.073
35	11	1998.703	1995.932	-2.771
35	12	2013.329	2003.409	-9.920
35	13	1989.014	1999.263	10.249
35	14	1998.191	1969.170	-29.021
35	15	1993.005	1993.416	0.411
30	16	2015.804	2008.047	-7.757
30	17	1984.925	1984.765	-0.160
30	18	1978.852	1984.240	5.388
30	19	1996.053	2000.753	4.700
30	20	1982.086	1979.749	-2.337
55	21	1975.976	1963.859	-12.117
55	22	1998.104	1995.902	-2.202
55	23	2014.554	2016.663	2.109
55	24	1983.531	1994.315	10.784
55	25	2006.706	2001.829	-4.877
55	26	1970.615	1975.613	4.998
55	27	2011.168	1991.926	-19.242
55	28	1993.404	1984.955	-8.449
55	29	1983.098	1998.490	15.392
55	30	1996.409	2027.602	31.193
55	31	1994.546	2025.604	31.058
55	32	1986.746	1978.713	-8.033
55	33	1988.740	1973.754	-14.986
55	34	1997.893	2002.111	4.218
55	35	1994.319	2021.918	27.599
55	36	1985.910	2010.461	24.551
55	37	1993.084	2007.732	14.648
55	38	1996.470	2021.248	24.778
55	39	2002.247	1989.335	-12.912
55	40	1989.253	1993.878	4.625
55	41	1989.141	2000.694	11.553
55	42	2002.759	2017.111	14.352
50	43	1992.913	2006.277	13.364
50	44	2003.744	2029.394	25.650
50	45	2011.719	2027.094	15.375
50	46	1994.661	2019.455	24.794
50	47	2012.510	2030.929	18.419
	Max	2015.804	2030.929	31.193
	Average	1997.180	2001.830	4.650
	Min	1970.615	1963.859	-29.021
	Std Dev	11.313	15.939	14.032

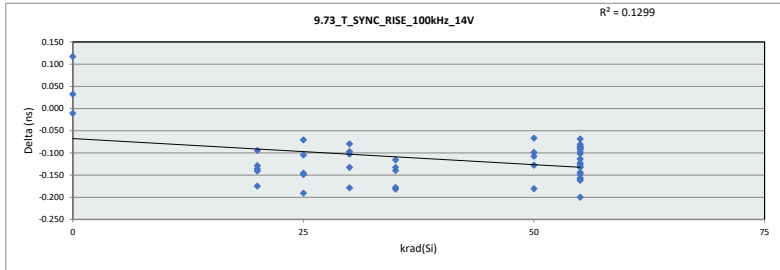
9.72_FSW_EXT_RT_2MHz_12V							
Test Site							
Tester							
Test Number							
Max Limit	2300	kHz					
Min Limit	1700	kHz					
krad(Si)	0	20	25	30	35	50	55
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000
Min	1990.562	1991.546	2001.602	1979.749	1969.170	2006.277	1963.859
Average	2000.115	2004.858	2008.248	1991.511	1992.238	2022.630	1999.714
Max	2012.133	2011.068	2013.132	2008.047	2003.409	2030.929	2027.602
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000



**HDR TID Report
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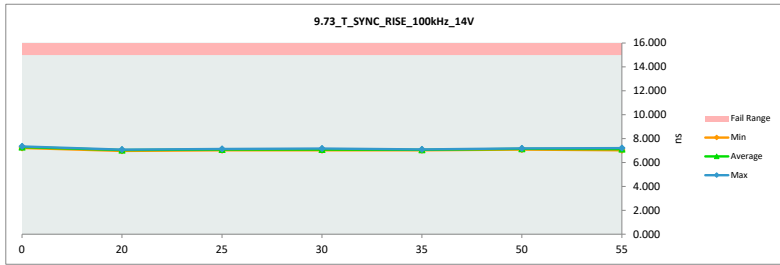
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.73_T_SYNC_RISE_100kHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.229	7.218	-0.011
0	51	7.312	7.344	0.032
0	52	7.195	7.312	0.117
25	1	7.277	7.128	-0.149
25	2	7.218	7.027	-0.191
25	3	7.222	7.076	-0.146
25	4	7.172	7.101	-0.071
25	5	7.208	7.103	-0.105
20	6	7.186	7.050	-0.136
20	7	7.211	7.070	-0.141
20	8	7.145	6.970	-0.175
20	9	7.168	7.039	-0.129
20	10	7.173	7.078	-0.095
35	11	7.206	7.028	-0.178
35	12	7.176	7.043	-0.133
35	13	7.213	7.031	-0.182
35	14	7.198	7.082	-0.116
35	15	7.237	7.097	-0.140
30	16	7.202	7.023	-0.179
30	17	7.246	7.166	-0.080
30	18	7.244	7.141	-0.103
30	19	7.191	7.058	-0.133
30	20	7.136	7.039	-0.097
55	21	7.288	7.157	-0.131
55	22	7.251	7.170	-0.081
55	23	7.222	7.077	-0.145
55	24	7.251	7.163	-0.088
55	25	7.211	7.109	-0.102
55	26	7.242	7.150	-0.092
55	27	7.254	7.140	-0.114
55	28	7.241	7.156	-0.085
55	29	7.236	7.167	-0.069
55	30	7.281	7.133	-0.148
55	31	7.316	7.116	-0.200
55	32	7.296	7.209	-0.087
55	33	7.218	7.095	-0.123
55	34	7.193	7.031	-0.162
55	35	7.221	7.130	-0.091
55	36	7.238	7.150	-0.088
55	37	7.238	7.105	-0.133
55	38	7.230	7.104	-0.126
55	39	7.179	7.019	-0.160
55	40	7.228	7.130	-0.098
55	41	7.230	7.073	-0.157
55	42	7.249	7.104	-0.145
50	43	7.246	7.147	-0.099
50	44	7.296	7.168	-0.128
50	45	7.246	7.179	-0.067
50	46	7.197	7.089	-0.108
50	47	7.299	7.118	-0.181
	Max	7.316	7.344	0.117
	Average	7.227	7.112	-0.115
	Min	7.136	6.970	-0.200
	Std Dev	0.041	0.070	0.055

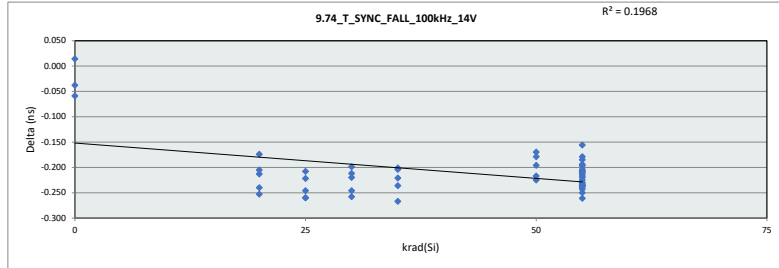
9.73_T_SYNC_RISE_100kHz		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
LL								
Min	7.218	6.970	7.027	7.023	7.028	7.089	7.019	
Average	7.291	7.041	7.087	7.085	7.056	7.140	7.122	
Max	7.344	7.078	7.128	7.166	7.097	7.179	7.209	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	



**HDR TID Report
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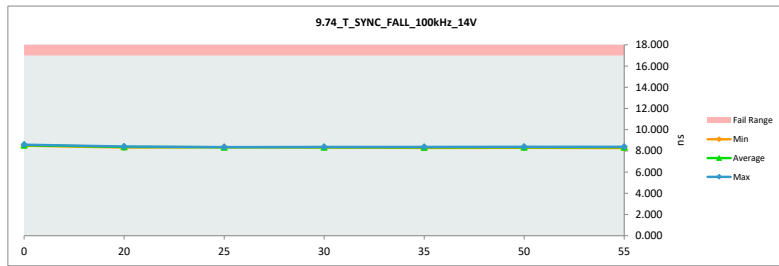
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.74_T_SYNC_FALL_100kHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.572	8.586	0.014
0	51	8.530	8.492	-0.038
0	52	8.589	8.530	-0.059
25	1	8.563	8.341	-0.222
25	2	8.606	8.346	-0.260
25	3	8.599	8.353	-0.246
25	4	8.609	8.349	-0.260
25	5	8.565	8.357	-0.208
20	6	8.590	8.385	-0.205
20	7	8.567	8.314	-0.253
20	8	8.604	8.391	-0.213
20	9	8.587	8.413	-0.174
20	10	8.591	8.351	-0.240
35	11	8.545	8.278	-0.267
35	12	8.584	8.380	-0.204
35	13	8.576	8.340	-0.236
35	14	8.586	8.365	-0.221
35	15	8.536	8.335	-0.201
30	16	8.565	8.345	-0.220
30	17	8.535	8.323	-0.212
30	18	8.586	8.340	-0.246
30	19	8.604	8.346	-0.258
30	20	8.567	8.368	-0.199
55	21	8.532	8.347	-0.185
55	22	8.546	8.333	-0.213
55	23	8.565	8.361	-0.204
55	24	8.567	8.334	-0.233
55	25	8.566	8.359	-0.207
55	26	8.536	8.293	-0.243
55	27	8.583	8.386	-0.197
55	28	8.532	8.353	-0.179
55	29	8.564	8.354	-0.210
55	30	8.541	8.333	-0.208
55	31	8.555	8.361	-0.194
55	32	8.532	8.271	-0.261
55	33	8.565	8.326	-0.239
55	34	8.566	8.331	-0.235
55	35	8.570	8.350	-0.220
55	36	8.557	8.321	-0.236
55	37	8.590	8.373	-0.217
55	38	8.552	8.322	-0.230
55	39	8.590	8.365	-0.225
55	40	8.566	8.329	-0.237
55	41	8.541	8.385	-0.156
55	42	8.570	8.320	-0.250
50	43	8.505	8.288	-0.217
50	44	8.525	8.300	-0.225
50	45	8.536	8.366	-0.170
50	46	8.568	8.372	-0.196
50	47	8.569	8.390	-0.179
	Max	8.609	8.586	0.014
	Average	8.565	8.357	-0.208
	Min	8.505	8.271	-0.267
	Std Dev	0.024	0.055	0.053

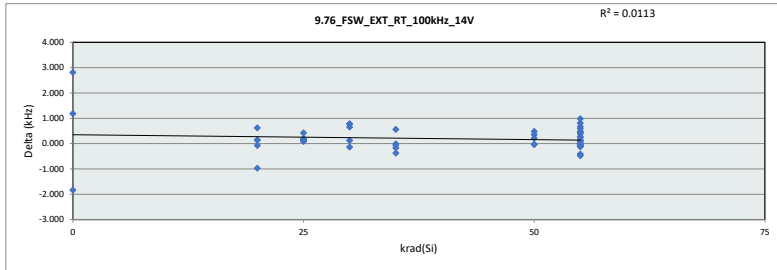
9.74_T_SYNC_FALL_100kHz							
Test Site							
Tester							
Test Number							
Max Limit	17	ns					
Min Limit		ns					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.492	8.314	8.341	8.323	8.278	8.288	8.271
Average	8.536	8.371	8.349	8.344	8.340	8.343	8.341
Max	8.586	8.413	8.357	8.368	8.380	8.390	8.386
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

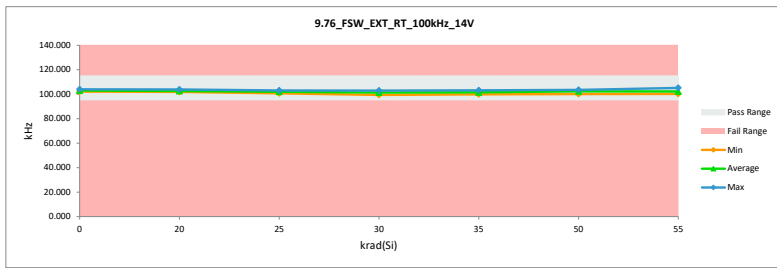
9.76_FSW_EXT_RT_100kHz_14V	
Test Site	
Tester	
Test Number	
Unit	kHz
Max Limit	115
Min Limit	95



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.822	103.002	1.180
0	51	103.997	102.158	-1.839
0	52	101.189	103.997	2.808
25	1	101.789	101.868	0.079
25	2	100.654	100.780	0.126
25	3	101.361	101.543	0.182
25	4	102.581	102.743	0.162
25	5	102.666	103.081	0.415
20	6	102.879	101.901	-0.978
20	7	102.616	102.536	-0.080
20	8	103.762	103.894	0.132
20	9	101.966	102.585	0.619
20	10	102.053	102.189	0.136
35	11	99.984	99.968	-0.016
35	12	103.532	103.151	-0.381
35	13	102.699	103.252	0.553
35	14	100.470	100.296	-0.174
35	15	101.353	101.287	-0.066
30	16	101.553	101.675	0.122
30	17	99.558	99.419	-0.139
30	18	101.483	102.135	0.652
30	19	99.979	100.756	0.777
30	20	102.211	102.981	0.770
55	21	100.723	101.310	0.587
55	22	102.111	102.064	-0.047
55	23	105.287	105.160	-0.127
55	24	102.629	102.536	-0.093
55	25	101.550	101.938	0.388
55	26	99.707	100.367	0.660
55	27	100.461	100.599	0.138
55	28	100.961	100.541	-0.420
55	29	102.026	101.925	-0.101
55	30	104.724	104.839	0.115
55	31	101.867	102.299	0.432
55	32	103.345	103.614	0.269
55	33	100.469	100.502	0.033
55	34	103.190	103.430	0.240
55	35	102.047	102.146	0.099
55	36	101.104	101.050	-0.054
55	37	103.375	103.344	-0.031
55	38	102.259	103.066	0.807
55	39	102.742	103.718	0.976
55	40	102.092	101.613	-0.479
55	41	99.804	100.280	0.476
55	42	103.149	103.048	-0.101
50	43	103.644	103.611	-0.033
50	44	102.420	102.769	0.349
50	45	102.679	102.894	0.215
50	46	99.724	100.199	0.475
50	47	102.708	102.669	-0.039
Max		105.287	105.160	2.808
Average		101.979	102.175	0.195
Min		99.558	99.419	-1.839
Std Dev		1.320	1.295	0.614

9.76_FSW_EXT_RT_100kHz_1	
Test Site	
Tester	
Test Number	
Max Limit	115 kHz
Min Limit	95 kHz

krad(Si)	0	20	25	30	35	50	55
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	102.158	101.901	100.780	99.419	99.968	100.199	100.280
Average	103.052	102.621	102.003	101.393	101.591	102.428	102.245
Max	103.997	103.894	103.081	102.981	103.252	103.611	105.160
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000

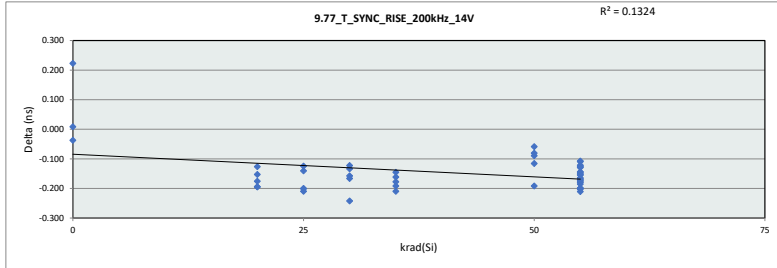


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.77_T_SYNC_RISE_200kHz_14V

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

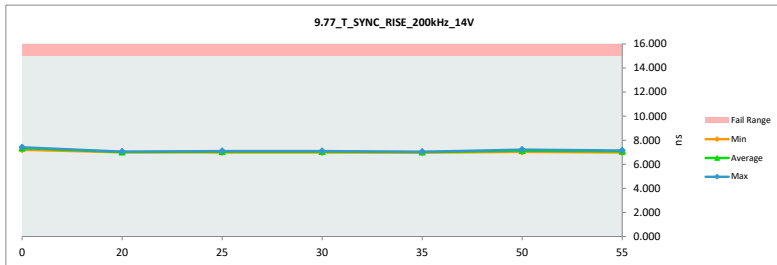


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.240	7.202	-0.038
0	51	7.406	7.414	0.008
0	52	7.184	7.406	0.222
25	1	7.301	7.100	-0.201
25	2	7.252	7.042	-0.210
25	3	7.182	6.981	-0.201
25	4	7.198	7.073	-0.125
25	5	7.227	7.086	-0.141
20	6	7.189	7.013	-0.176
20	7	7.202	7.049	-0.153
20	8	7.188	6.993	-0.195
20	9	7.160	7.033	-0.127
20	10	7.189	6.994	-0.195
35	11	7.186	7.040	-0.146
35	12	7.176	6.966	-0.210
35	13	7.197	7.035	-0.162
35	14	7.185	7.007	-0.178
35	15	7.209	7.017	-0.192
30	16	7.283	7.040	-0.243
30	17	7.228	7.105	-0.123
30	18	7.235	7.077	-0.158
30	19	7.184	7.050	-0.134
30	20	7.141	6.974	-0.167
55	21	7.273	7.145	-0.128
55	22	7.279	7.068	-0.211
55	23	7.215	7.105	-0.110
55	24	7.268	7.100	-0.168
55	25	7.184	7.004	-0.180
55	26	7.238	7.130	-0.108
55	27	7.247	7.122	-0.125
55	28	7.228	7.078	-0.150
55	29	7.216	7.061	-0.155
55	30	7.264	7.119	-0.145
55	31	7.287	7.088	-0.199
55	32	7.276	7.146	-0.130
55	33	7.215	7.012	-0.203
55	34	7.197	7.075	-0.122
55	35	7.209	7.055	-0.154
55	36	7.227	7.054	-0.173
55	37	7.251	7.086	-0.165
55	38	7.231	7.045	-0.186
55	39	7.179	6.979	-0.200
55	40	7.243	7.072	-0.171
55	41	7.236	7.058	-0.178
55	42	7.228	7.083	-0.145
50	43	7.247	7.157	-0.090
50	44	7.282	7.223	-0.059
50	45	7.219	7.138	-0.081
50	46	7.187	7.071	-0.116
50	47	7.219	7.027	-0.192
	Max	7.406	7.414	0.222
	Average	7.226	7.080	-0.146
	Min	7.141	6.966	-0.243
	Std Dev	0.045	0.088	0.071

9.77_T_SYNC_RISE_200kHz

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

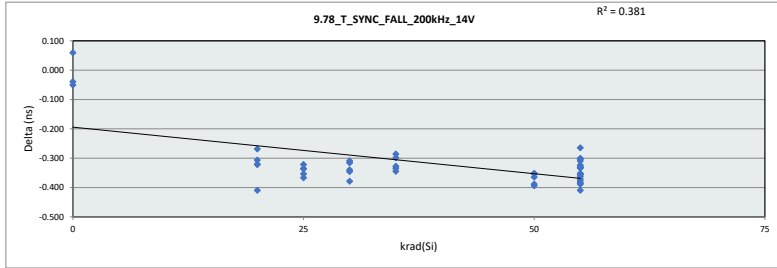
krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.202	6.993	6.981	6.974	6.966	7.027	6.979
Average	7.341	7.016	7.056	7.049	7.013	7.123	7.077
Max	7.414	7.049	7.100	7.105	7.040	7.223	7.146
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000



**HDR TID Report
TPS7H5005-SEP**

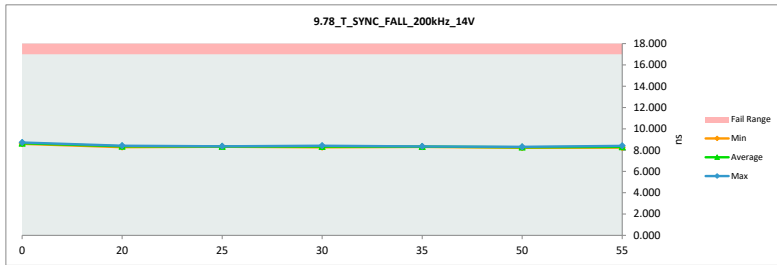
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.78_T_SYNC_FALL_200kHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.657	8.716	0.059
0	51	8.632	8.592	-0.040
0	52	8.683	8.632	-0.051
25	1	8.650	8.313	-0.337
25	2	8.695	8.359	-0.336
25	3	8.696	8.342	-0.354
25	4	8.697	8.330	-0.367
25	5	8.673	8.351	-0.322
20	6	8.689	8.367	-0.322
20	7	8.675	8.406	-0.269
20	8	8.698	8.391	-0.307
20	9	8.680	8.359	-0.321
20	10	8.692	8.282	-0.410
35	11	8.636	8.350	-0.286
35	12	8.676	8.341	-0.335
35	13	8.656	8.311	-0.345
35	14	8.660	8.332	-0.328
35	15	8.633	8.334	-0.299
30	16	8.655	8.309	-0.346
30	17	8.645	8.266	-0.379
30	18	8.670	8.354	-0.316
30	19	8.716	8.406	-0.310
30	20	8.677	8.337	-0.340
55	21	8.628	8.265	-0.363
55	22	8.641	8.312	-0.329
55	23	8.669	8.298	-0.371
55	24	8.655	8.352	-0.303
55	25	8.666	8.365	-0.301
55	26	8.643	8.310	-0.333
55	27	8.690	8.312	-0.378
55	28	8.640	8.316	-0.324
55	29	8.647	8.314	-0.333
55	30	8.652	8.320	-0.332
55	31	8.648	8.295	-0.353
55	32	8.628	8.240	-0.388
55	33	8.657	8.272	-0.385
55	34	8.677	8.321	-0.356
55	35	8.670	8.405	-0.265
55	36	8.664	8.275	-0.389
55	37	8.684	8.331	-0.353
55	38	8.642	8.308	-0.334
55	39	8.677	8.367	-0.310
55	40	8.652	8.242	-0.410
55	41	8.618	8.314	-0.304
55	42	8.658	8.301	-0.357
50	43	8.621	8.256	-0.365
50	44	8.615	8.221	-0.394
50	45	8.642	8.288	-0.354
50	46	8.672	8.283	-0.389
50	47	8.663	8.311	-0.352
	Max	8.716	8.716	0.059
	Average	8.661	8.339	-0.322
	Min	8.615	8.221	-0.410
	Std Dev	0.023	0.090	0.087

9.78_T_SYNC_FALL_200kHz							
Test Site							
Tester							
Test Number							
Max Limit	17	ns					
Min Limit		ns					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.592	8.282	8.313	8.266	8.311	8.221	8.240
Average	8.647	8.361	8.339	8.334	8.334	8.272	8.311
Max	8.716	8.406	8.359	8.406	8.350	8.311	8.405
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



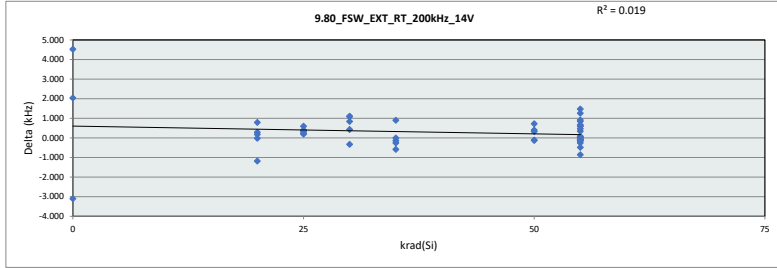
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.80_FSW_EXT_RT_200kHz_14V

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

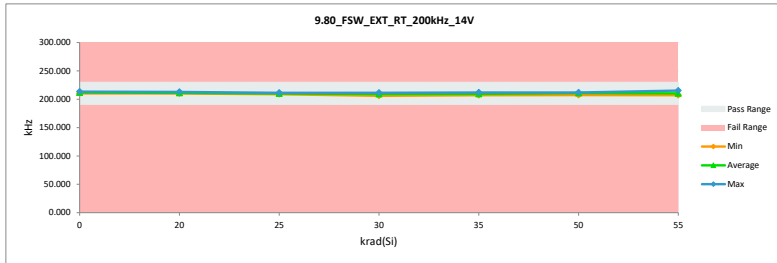
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	209.832	211.864	2.032
0	51	213.342	210.231	-3.111
0	52	208.825	213.342	4.517
25	1	209.717	209.899	0.182
25	2	208.451	208.775	0.324
25	3	208.933	209.327	0.394
25	4	210.973	211.207	0.234
25	5	210.754	211.346	0.592
20	6	211.443	210.254	-1.189
20	7	210.935	210.904	-0.031
20	8	212.788	212.960	0.172
20	9	210.194	210.972	0.778
20	10	209.868	210.151	0.283
35	11	206.972	206.960	-0.012
35	12	212.453	211.861	-0.592
35	13	211.053	211.946	0.893
35	14	207.896	207.630	-0.266
35	15	209.170	209.024	-0.146
30	16	209.796	210.218	0.422
30	17	206.354	206.015	-0.339
30	18	208.926	209.756	0.830
30	19	207.224	208.324	1.100
30	20	210.346	211.426	1.080
55	21	207.750	208.590	0.840
55	22	210.521	210.258	-0.263
55	23	215.447	215.311	-0.136
55	24	210.738	210.577	-0.161
55	25	209.664	210.244	0.580
55	26	206.272	207.179	0.907
55	27	208.178	208.209	0.031
55	28	208.456	207.591	-0.865
55	29	209.870	209.806	-0.064
55	30	214.352	214.426	0.074
55	31	209.896	210.499	0.603
55	32	212.641	213.100	0.459
55	33	207.795	207.843	0.048
55	34	211.808	212.144	0.336
55	35	210.089	210.081	-0.008
55	36	208.863	208.760	-0.103
55	37	212.112	212.034	-0.078
55	38	210.379	211.629	1.250
55	39	211.208	212.672	1.464
55	40	209.854	209.360	-0.494
55	41	206.595	207.251	0.656
55	42	211.842	211.715	-0.127
50	43	212.092	211.962	-0.130
50	44	210.841	211.157	0.316
50	45	211.408	211.797	0.389
50	46	206.524	207.241	0.717
50	47	211.868	211.744	-0.124
	Max	215.447	215.311	4.517
	Average	210.066	210.351	0.285
	Min	206.272	206.015	-3.111
	Std Dev	2.052	2.021	0.971



9.80_FSW_EXT_RT_200kHz_1

Test Site	
Tester	
Test Number	
Max Limit	230 kHz
Min Limit	190 kHz

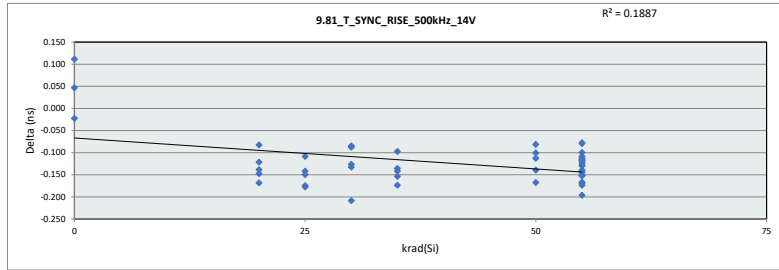
krad(Si)	0	20	25	30	35	50	55
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	210.231	210.151	208.775	206.015	206.960	207.241	207.179
Average	211.812	211.048	210.111	209.148	209.484	210.780	210.422
Max	213.342	212.960	211.346	211.426	211.946	211.962	215.311
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000



**HDR TID Report
TPS7H5005-SEP**

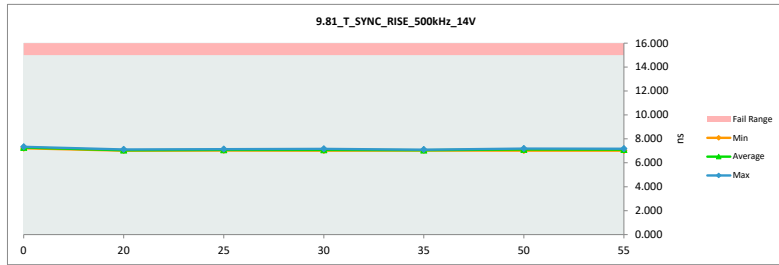
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.81_T_SYNC_RISE_500kHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	15
Min Limit	15



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.238	7.215	-0.023
0	51	7.289	7.335	0.046
0	52	7.178	7.289	0.111
25	1	7.275	7.133	-0.142
25	2	7.242	7.067	-0.175
25	3	7.170	7.061	-0.109
25	4	7.209	7.031	-0.178
25	5	7.221	7.071	-0.150
20	6	7.185	7.016	-0.169
20	7	7.198	7.115	-0.083
20	8	7.167	7.028	-0.139
20	9	7.175	7.053	-0.122
20	10	7.176	7.028	-0.148
35	11	7.188	7.034	-0.154
35	12	7.160	7.024	-0.136
35	13	7.223	7.081	-0.142
35	14	7.194	7.096	-0.098
35	15	7.209	7.035	-0.174
30	16	7.180	7.092	-0.088
30	17	7.241	7.156	-0.085
30	18	7.248	7.039	-0.209
30	19	7.184	7.057	-0.127
30	20	7.150	7.017	-0.133
55	21	7.276	7.176	-0.100
55	22	7.262	7.109	-0.153
55	23	7.204	7.124	-0.080
55	24	7.265	7.120	-0.145
55	25	7.209	7.079	-0.130
55	26	7.241	7.127	-0.114
55	27	7.244	7.047	-0.197
55	28	7.223	7.099	-0.124
55	29	7.217	7.139	-0.078
55	30	7.257	7.128	-0.129
55	31	7.283	7.164	-0.119
55	32	7.280	7.138	-0.142
55	33	7.188	7.048	-0.140
55	34	7.189	7.019	-0.170
55	35	7.213	7.094	-0.119
55	36	7.219	7.104	-0.115
55	37	7.240	7.123	-0.117
55	38	7.227	7.075	-0.152
55	39	7.185	7.018	-0.167
55	40	7.215	7.063	-0.152
55	41	7.231	7.122	-0.109
55	42	7.226	7.052	-0.174
50	43	7.242	7.129	-0.113
50	44	7.287	7.186	-0.101
50	45	7.237	7.097	-0.140
50	46	7.188	7.020	-0.168
50	47	7.205	7.123	-0.082
	Max	7.289	7.335	0.111
	Average	7.219	7.096	-0.123
	Min	7.150	7.016	-0.209
	Std Dev	0.036	0.067	0.054

9.81_T_SYNC_RISE_500kHz		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit	ns	ns						
LL								
Min	7.215	7.016	7.031	7.017	7.024	7.020	7.018	
Average	7.280	7.048	7.073	7.072	7.054	7.111	7.099	
Max	7.335	7.115	7.133	7.156	7.096	7.186	7.176	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	

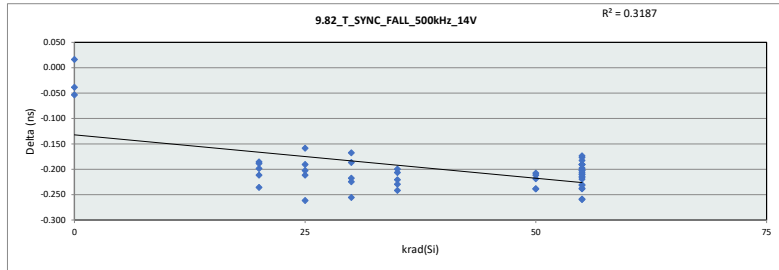


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.82_T_SYNC_FALL_500kHz_14V

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

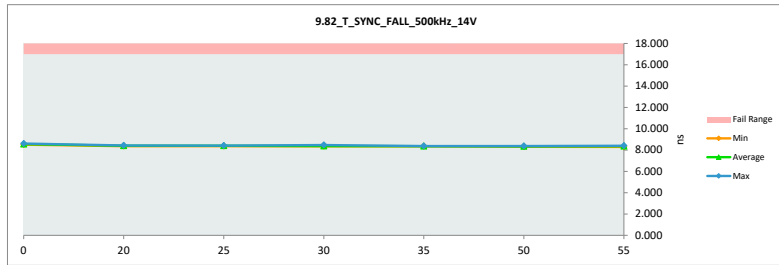


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.594	8.610	0.016
0	51	8.546	8.507	-0.039
0	52	8.600	8.546	-0.054
25	1	8.588	8.376	-0.212
25	2	8.627	8.365	-0.262
25	3	8.621	8.418	-0.203
25	4	8.605	8.414	-0.191
25	5	8.568	8.409	-0.159
20	6	8.602	8.366	-0.236
20	7	8.592	8.406	-0.186
20	8	8.625	8.426	-0.199
20	9	8.592	8.403	-0.189
20	10	8.597	8.385	-0.212
35	11	8.565	8.344	-0.221
35	12	8.595	8.353	-0.242
35	13	8.584	8.354	-0.230
35	14	8.580	8.373	-0.207
35	15	8.554	8.354	-0.200
30	16	8.580	8.355	-0.225
30	17	8.545	8.358	-0.187
30	18	8.601	8.345	-0.256
30	19	8.639	8.471	-0.168
30	20	8.590	8.372	-0.218
55	21	8.548	8.328	-0.220
55	22	8.549	8.372	-0.177
55	23	8.582	8.391	-0.191
55	24	8.565	8.382	-0.183
55	25	8.580	8.380	-0.200
55	26	8.563	8.365	-0.198
55	27	8.604	8.365	-0.239
55	28	8.565	8.350	-0.215
55	29	8.587	8.377	-0.210
55	30	8.565	8.358	-0.207
55	31	8.569	8.358	-0.211
55	32	8.548	8.345	-0.203
55	33	8.590	8.359	-0.231
55	34	8.584	8.393	-0.191
55	35	8.584	8.368	-0.216
55	36	8.573	8.313	-0.260
55	37	8.615	8.383	-0.232
55	38	8.577	8.403	-0.174
55	39	8.610	8.407	-0.203
55	40	8.564	8.326	-0.238
55	41	8.554	8.295	-0.259
55	42	8.567	8.376	-0.191
50	43	8.541	8.329	-0.212
50	44	8.543	8.304	-0.239
50	45	8.581	8.373	-0.208
50	46	8.594	8.375	-0.219
50	47	8.576	8.337	-0.239
Max		8.639	8.610	0.016
Average		8.581	8.380	-0.201
Min		8.541	8.295	-0.262
Std Dev		0.024	0.056	0.051

9.82_T_SYNC_FALL_500kHz

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

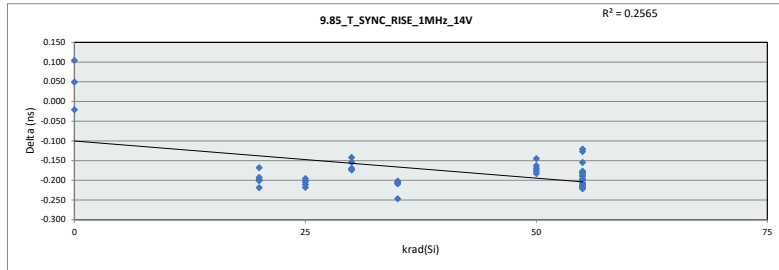
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.507	8.366	8.365	8.345	8.344	8.304	8.295
Average	8.554	8.397	8.396	8.380	8.356	8.344	8.363
Max	8.610	8.426	8.418	8.471	8.373	8.375	8.407
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

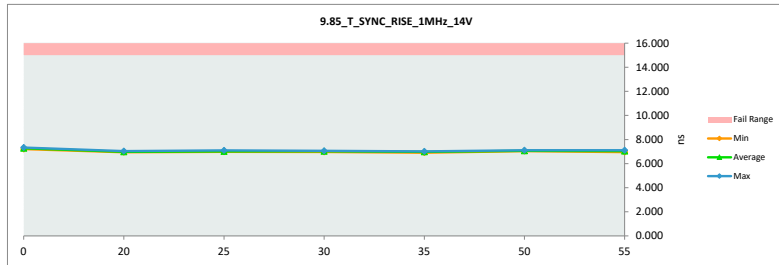
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.85_T_SYNC_RISE_1MHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.228	7.207	-0.021
0	51	7.284	7.333	0.049
0	52	7.180	7.284	0.104
25	1	7.292	7.096	-0.196
25	2	7.217	6.999	-0.218
25	3	7.191	6.980	-0.211
25	4	7.192	6.988	-0.204
25	5	7.214	7.012	-0.202
20	6	7.162	6.943	-0.219
20	7	7.211	7.043	-0.168
20	8	7.182	6.984	-0.198
20	9	7.151	6.958	-0.193
20	10	7.170	6.969	-0.201
35	11	7.178	6.976	-0.202
35	12	7.152	6.905	-0.247
35	13	7.202	6.993	-0.209
35	14	7.185	6.977	-0.208
35	15	7.221	7.015	-0.206
30	16	7.170	7.016	-0.154
30	17	7.237	7.063	-0.174
30	18	7.226	7.054	-0.172
30	19	7.164	7.022	-0.142
30	20	7.136	6.966	-0.170
55	21	7.275	7.057	-0.218
55	22	7.263	7.051	-0.212
55	23	7.204	7.077	-0.127
55	24	7.259	7.078	-0.181
55	25	7.185	6.988	-0.197
55	26	7.243	7.088	-0.155
55	27	7.231	7.110	-0.121
55	28	7.231	7.043	-0.188
55	29	7.221	7.032	-0.189
55	30	7.246	7.046	-0.200
55	31	7.290	7.101	-0.189
55	32	7.286	7.065	-0.221
55	33	7.194	7.004	-0.190
55	34	7.193	6.994	-0.199
55	35	7.207	6.991	-0.216
55	36	7.220	7.037	-0.183
55	37	7.244	7.067	-0.177
55	38	7.227	7.020	-0.207
55	39	7.170	6.956	-0.214
55	40	7.211	6.994	-0.217
55	41	7.231	7.010	-0.221
55	42	7.211	7.032	-0.179
50	43	7.250	7.067	-0.183
50	44	7.283	7.107	-0.176
50	45	7.220	7.050	-0.170
50	46	7.187	7.042	-0.145
50	47	7.212	7.049	-0.163
	Max	7.292	7.333	0.104
	Average	7.215	7.039	-0.176
	Min	7.136	6.905	-0.247
	Std Dev	0.039	0.076	0.063

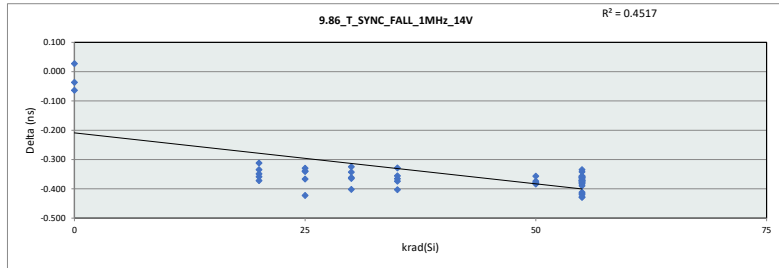
9.85_T_SYNC_RISE_1MHz_14							
Test Site							
Tester							
Test Number							
Max Limit	15	ns					
Min Limit		ns					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.207	6.943	6.980	6.966	6.905	7.042	6.956
Average	7.275	6.979	7.015	7.024	6.973	7.063	7.038
Max	7.333	7.043	7.096	7.063	7.015	7.107	7.110
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000



**HDR TID Report
TPS7H5005-SEP**

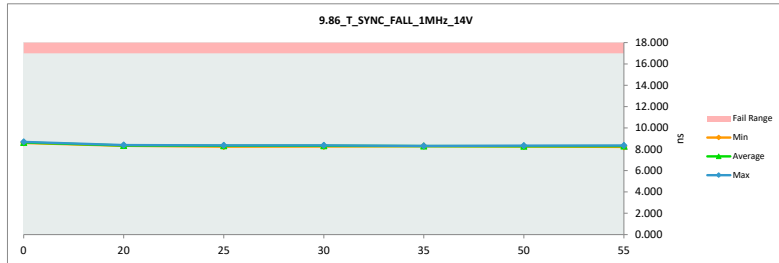
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.86_T_SYNC_FALL_1MHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.660	8.687	0.027
0	51	8.628	8.591	-0.037
0	52	8.692	8.628	-0.064
25	1	8.660	8.237	-0.423
25	2	8.700	8.370	-0.330
25	3	8.715	8.348	-0.367
25	4	8.697	8.357	-0.340
25	5	8.663	8.322	-0.341
20	6	8.708	8.359	-0.349
20	7	8.703	8.331	-0.372
20	8	8.704	8.392	-0.312
20	9	8.680	8.345	-0.335
20	10	8.696	8.337	-0.359
35	11	8.640	8.311	-0.329
35	12	8.675	8.309	-0.366
35	13	8.682	8.308	-0.374
35	14	8.682	8.279	-0.403
35	15	8.649	8.293	-0.356
30	16	8.678	8.335	-0.343
30	17	8.659	8.257	-0.402
30	18	8.700	8.335	-0.365
30	19	8.733	8.371	-0.362
30	20	8.668	8.343	-0.325
55	21	8.644	8.270	-0.374
55	22	8.639	8.274	-0.365
55	23	8.669	8.286	-0.383
55	24	8.664	8.329	-0.335
55	25	8.693	8.313	-0.380
55	26	8.657	8.286	-0.371
55	27	8.702	8.342	-0.360
55	28	8.661	8.249	-0.412
55	29	8.693	8.321	-0.372
55	30	8.663	8.289	-0.374
55	31	8.658	8.288	-0.370
55	32	8.634	8.255	-0.379
55	33	8.682	8.325	-0.357
55	34	8.679	8.317	-0.362
55	35	8.682	8.340	-0.342
55	36	8.673	8.257	-0.416
55	37	8.702	8.345	-0.357
55	38	8.661	8.271	-0.390
55	39	8.707	8.346	-0.361
55	40	8.678	8.249	-0.429
55	41	8.649	8.220	-0.429
55	42	8.668	8.248	-0.420
50	43	8.630	8.256	-0.374
50	44	8.648	8.267	-0.381
50	45	8.660	8.276	-0.384
50	46	8.700	8.343	-0.357
50	47	8.669	8.290	-0.379
	Max	8.733	8.687	0.027
	Average	8.675	8.326	-0.349
	Min	8.628	8.220	-0.429
	Std Dev	0.024	0.089	0.088

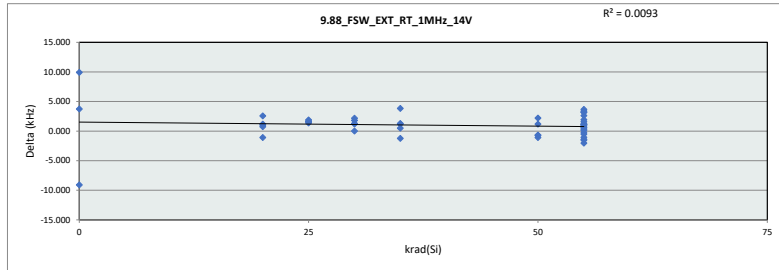
9.86_T_SYNC_FALL_1MHz_14							
Test Site							
Tester							
Test Number							
Max Limit	17 ns						
Min Limit	ns						
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.591	8.331	8.237	8.257	8.279	8.256	8.220
Average	8.635	8.353	8.327	8.328	8.300	8.286	8.292
Max	8.687	8.392	8.370	8.371	8.311	8.343	8.346
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



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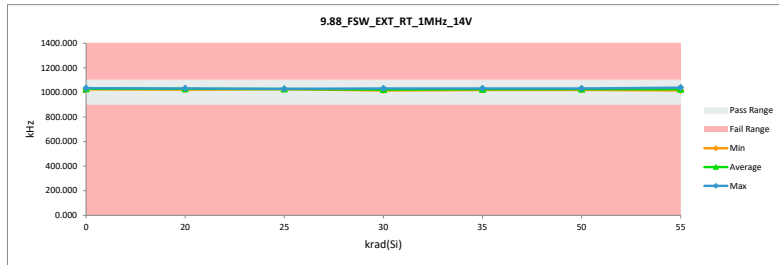
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.88_FSW_EXT_RT_1MHz_14V	
Test Site	
Tester	
Test Number	
Unit	kHz kHz
Max Limit	1100 1100
Min Limit	900 900



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1024.530	1028.255	3.725
0	51	1034.524	1025.409	-9.115
0	52	1024.634	1034.524	9.890
25	1	1024.645	1026.239	1.594
25	2	1025.633	1027.496	1.863
25	3	1025.809	1027.385	1.576
25	4	1028.209	1029.556	1.347
25	5	1025.767	1027.373	1.606
20	6	1030.041	1028.925	-1.116
20	7	1027.756	1028.764	1.008
20	8	1031.665	1032.394	0.729
20	9	1028.223	1029.372	1.149
20	10	1020.671	1023.223	2.552
35	11	1019.600	1020.067	0.467
35	12	1033.285	1032.029	-1.256
35	13	1025.201	1029.023	3.822
35	14	1024.573	1025.760	1.187
35	15	1021.232	1022.491	1.259
30	16	1031.120	1032.376	1.256
30	17	1016.339	1016.340	0.001
30	18	1019.634	1020.817	1.183
30	19	1019.483	1021.285	1.802
30	20	1021.586	1023.736	2.150
55	21	1017.180	1019.775	2.595
55	22	1025.658	1024.233	-1.425
55	23	1037.210	1037.734	0.524
55	24	1021.350	1021.604	0.254
55	25	1026.997	1030.356	3.359
55	26	1013.028	1016.194	3.166
55	27	1026.358	1025.802	-0.556
55	28	1020.913	1018.850	-2.063
55	29	1020.311	1020.011	-0.300
55	30	1029.294	1030.140	0.846
55	31	1020.933	1022.852	1.919
55	32	1038.024	1039.029	1.005
55	33	1019.475	1019.553	0.078
55	34	1027.080	1028.169	1.089
55	35	1023.019	1021.946	-1.073
55	36	1021.453	1022.007	0.554
55	37	1028.080	1026.540	-1.540
55	38	1023.061	1026.715	3.654
55	39	1028.448	1031.601	3.153
55	40	1020.466	1022.046	1.580
55	41	1017.015	1018.110	1.095
55	42	1027.832	1029.065	1.233
50	43	1024.282	1023.567	-0.715
50	44	1025.800	1024.702	-1.098
50	45	1029.645	1030.810	1.165
50	46	1019.008	1021.200	2.192
50	47	1033.156	1032.442	-0.714
	Max	1038.024	1039.029	9.890
	Average	1024.985	1025.958	0.973
	Min	1013.028	1016.194	-9.115
	Std Dev	5.375	5.240	2.406

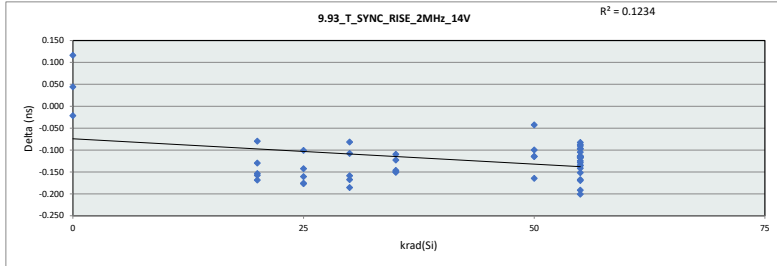
9.88_FSW_EXT_RT_1MHz_14V								
Test Site								
Tester								
Test Number								
Max Limit	1100	kHz						
Min Limit	900	kHz						
krad(Si)	0	20	25	30	35	50	55	
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000	
Min	1025.409	1023.223	1026.239	1016.340	1020.067	1021.200	1016.194	
Average	1029.396	1028.536	1027.610	1022.911	1025.874	1026.544	1025.106	
Max	1034.524	1032.394	1029.556	1032.376	1032.029	1032.442	1039.029	
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	



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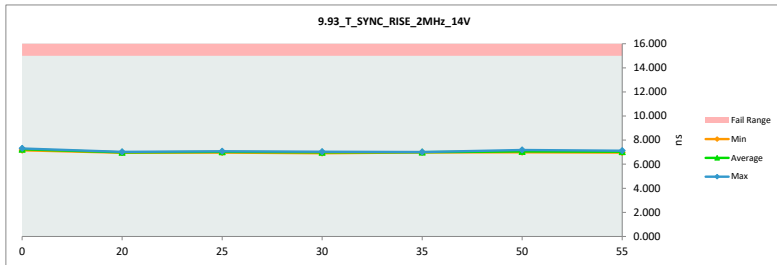
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.93_T_SYNC_RISE_2MHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	15 15
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.176	7.154	-0.022
0	51	7.260	7.304	0.044
0	52	7.144	7.260	0.116
25	1	7.230	7.069	-0.161
25	2	7.164	6.987	-0.177
25	3	7.137	6.961	-0.176
25	4	7.157	7.056	-0.101
25	5	7.178	7.035	-0.143
20	6	7.126	6.957	-0.169
20	7	7.156	7.026	-0.130
20	8	7.122	6.968	-0.154
20	9	7.095	7.015	-0.080
20	10	7.109	6.951	-0.158
35	11	7.132	7.009	-0.123
35	12	7.124	6.977	-0.147
35	13	7.119	7.009	-0.110
35	14	7.157	7.007	-0.150
35	15	7.142	6.991	-0.151
30	16	7.136	7.028	-0.108
30	17	7.166	7.007	-0.159
30	18	7.143	6.975	-0.168
30	19	7.112	7.030	-0.082
30	20	7.097	6.911	-0.186
55	21	7.195	7.107	-0.088
55	22	7.168	7.050	-0.118
55	23	7.165	7.049	-0.116
55	24	7.220	7.122	-0.098
55	25	7.140	7.057	-0.083
55	26	7.150	7.059	-0.091
55	27	7.202	7.010	-0.192
55	28	7.158	7.022	-0.136
55	29	7.141	7.036	-0.105
55	30	7.184	7.042	-0.142
55	31	7.215	7.118	-0.097
55	32	7.244	7.043	-0.201
55	33	7.123	7.008	-0.115
55	34	7.113	6.978	-0.135
55	35	7.128	7.003	-0.125
55	36	7.156	7.027	-0.129
55	37	7.163	7.049	-0.114
55	38	7.159	7.043	-0.116
55	39	7.132	6.964	-0.168
55	40	7.155	7.037	-0.118
55	41	7.154	7.002	-0.152
55	42	7.155	6.985	-0.170
50	43	7.175	7.060	-0.115
50	44	7.220	7.177	-0.043
50	45	7.178	7.078	-0.100
50	46	7.104	6.989	-0.115
50	47	7.154	6.989	-0.165
	Max	7.260	7.304	0.116
	Average	7.157	7.036	-0.121
	Min	7.095	6.911	-0.201
	Std Dev	0.037	0.072	0.056

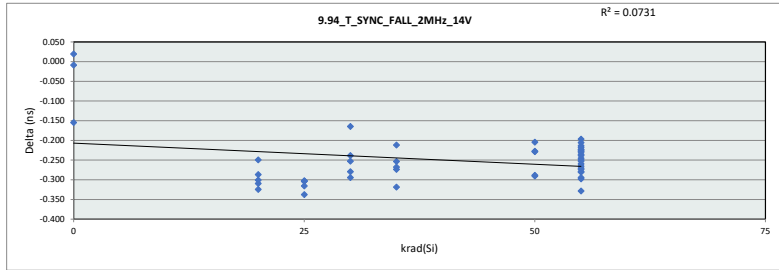
9.93_T_SYNC_RISE_2MHz_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	15	ns						
Min Limit		ns						
LL								
Min	7.154	6.951	6.961	6.911	6.977	6.989	6.964	
Average	7.239	6.983	7.022	6.990	6.999	7.059	7.037	
Max	7.304	7.026	7.069	7.030	7.009	7.177	7.122	
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	



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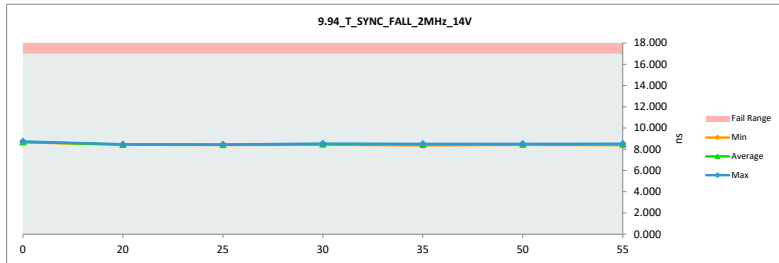
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.94_T_SYNC_FALL_2MHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.717	8.736	0.019
0	51	8.663	8.654	-0.009
0	52	8.818	8.663	-0.155
25	1	8.699	8.396	-0.303
25	2	8.751	8.447	-0.304
25	3	8.764	8.448	-0.316
25	4	8.764	8.426	-0.338
25	5	8.698	8.394	-0.304
20	6	8.749	8.424	-0.325
20	7	8.705	8.455	-0.250
20	8	8.739	8.452	-0.287
20	9	8.741	8.431	-0.310
20	10	8.768	8.467	-0.301
35	11	8.670	8.458	-0.212
35	12	8.709	8.455	-0.254
35	13	8.725	8.451	-0.274
35	14	8.776	8.508	-0.268
35	15	8.684	8.365	-0.319
30	16	8.728	8.448	-0.280
30	17	8.683	8.430	-0.253
30	18	8.749	8.454	-0.295
30	19	8.759	8.520	-0.239
30	20	8.694	8.529	-0.165
55	21	8.664	8.383	-0.281
55	22	8.688	8.442	-0.246
55	23	8.705	8.477	-0.228
55	24	8.687	8.462	-0.225
55	25	8.712	8.476	-0.236
55	26	8.701	8.427	-0.274
55	27	8.751	8.512	-0.239
55	28	8.696	8.478	-0.218
55	29	8.729	8.476	-0.253
55	30	8.728	8.430	-0.298
55	31	8.733	8.453	-0.280
55	32	8.791	8.496	-0.295
55	33	8.747	8.418	-0.329
55	34	8.715	8.492	-0.223
55	35	8.732	8.482	-0.250
55	36	8.715	8.509	-0.206
55	37	8.742	8.482	-0.260
55	38	8.719	8.522	-0.197
55	39	8.737	8.507	-0.230
55	40	8.693	8.422	-0.271
55	41	8.719	8.453	-0.266
55	42	8.711	8.497	-0.214
50	43	8.661	8.456	-0.205
50	44	8.699	8.408	-0.291
50	45	8.707	8.478	-0.229
50	46	8.736	8.508	-0.228
50	47	8.743	8.454	-0.289
	Max	8.818	8.736	0.019
	Average	8.722	8.472	-0.250
	Min	8.661	8.365	-0.338
	Std Dev	0.033	0.066	0.067

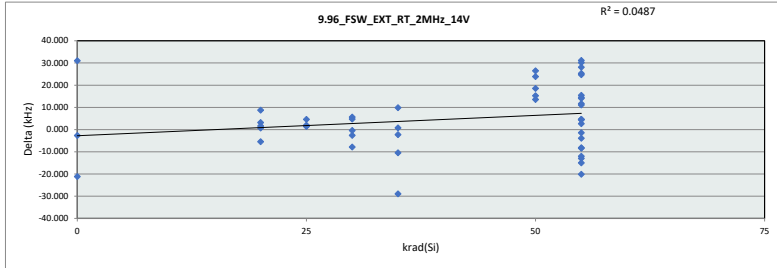
9.94_T_SYNC_FALL_2MHz_14							
Test Site							
Tester							
Test Number							
Max Limit	17	ns					
Min Limit		ns					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	8.654	8.424	8.394	8.430	8.365	8.408	8.383
Average	8.684	8.446	8.422	8.476	8.447	8.461	8.468
Max	8.736	8.467	8.448	8.529	8.508	8.508	8.522
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



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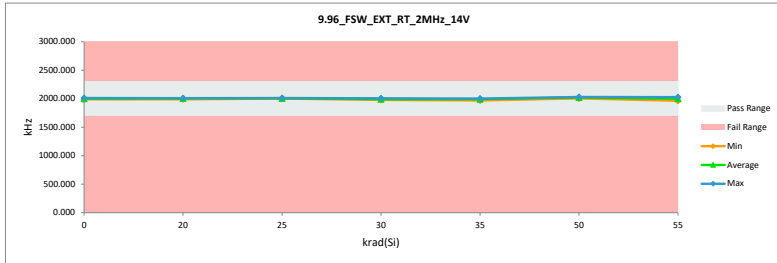
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.96_FSW_EXT_RT_2MHz_14V	
Test Site	
Tester	
Test Number	
Unit	kHz kHz
Max Limit	2300 2300
Min Limit	1700 1700



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	2000.005	1997.262	-2.743
0	51	2011.830	1990.580	-21.250
0	52	1980.925	2011.830	30.905
25	1	1999.736	2001.338	1.602
25	2	2000.748	2005.255	4.507
25	3	2011.165	2013.027	1.862
25	4	2009.117	2010.478	1.361
25	5	2008.406	2010.037	1.631
20	6	2005.335	2008.456	3.121
20	7	2006.360	2007.879	1.519
20	8	2010.139	2010.777	0.638
20	9	2009.486	2003.948	-5.538
20	10	1982.267	1990.950	8.683
35	11	1998.692	1996.333	-2.359
35	12	2013.376	2002.853	-10.523
35	13	1989.016	1998.790	9.774
35	14	1997.655	1968.624	-29.031
35	15	1992.705	1993.409	0.704
30	16	2015.409	2007.499	-7.910
30	17	1984.883	1984.429	-0.454
30	18	1978.670	1984.249	5.579
30	19	1995.784	2000.434	4.650
30	20	1982.052	1979.350	-2.702
55	21	1975.827	1963.728	-12.099
55	22	1997.876	1996.347	-1.529
55	23	2014.164	2016.736	2.572
55	24	1983.102	1994.138	11.036
55	25	2006.585	2002.631	-3.954
55	26	1970.558	1974.947	4.389
55	27	2011.091	1990.930	-20.161
55	28	1992.979	1984.534	-8.445
55	29	1982.696	1998.046	15.350
55	30	1996.052	2027.122	31.070
55	31	1994.481	2024.604	30.123
55	32	1986.767	1978.504	-8.263
55	33	1988.713	1973.671	-15.042
55	34	1997.358	2001.794	4.436
55	35	1993.962	2021.967	28.005
55	36	1985.644	2010.272	24.628
55	37	1992.890	2007.280	14.390
55	38	1996.095	2021.296	25.201
55	39	2001.863	1988.814	-13.049
55	40	1989.110	1993.670	4.560
55	41	1989.110	2000.685	11.575
55	42	2002.616	2016.649	14.033
50	43	1992.687	2006.178	13.491
50	44	2003.500	2029.919	26.419
50	45	2011.341	2026.538	15.197
50	46	1994.470	2018.271	23.801
50	47	2012.124	2030.626	18.502
Max		2015.409	2030.626	31.070
Average		1996.948	2001.554	4.605
Min		1970.558	1963.728	-29.031
Std Dev		11.298	15.938	14.047

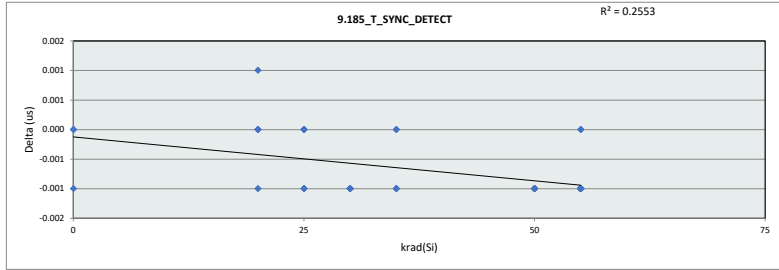
9.96_FSW_EXT_RT_2MHz_14V								
Test Site								
Tester								
Test Number								
Max Limit	2300 kHz							
Min Limit	1700 kHz							
krad(Si)	0	20	25	30	35	50	55	
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	
Min	1990.580	1990.950	2001.338	1979.350	1968.624	2006.178	1963.728	
Average	1999.891	2004.402	2008.027	1991.192	1992.002	2022.306	1999.471	
Max	2011.830	2010.777	2013.027	2007.499	2002.853	2030.626	2027.122	
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	



**HDR TID Report
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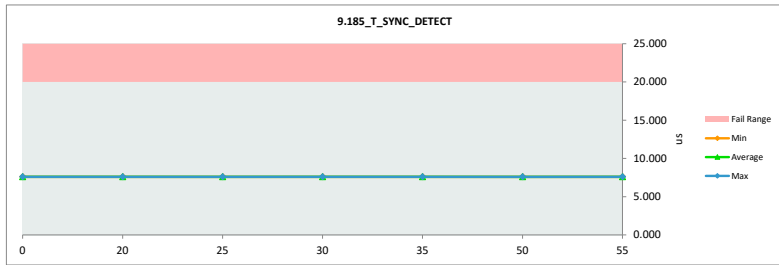
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.185_T_SYNC_DETECT	
Test Site	
Tester	
Test Number	
Unit	us
Max Limit	20
Min Limit	20



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.589	7.588	-0.001
0	51	7.587	7.587	0.000
0	52	7.587	7.587	0.000
25	1	7.589	7.589	0.000
25	2	7.588	7.588	0.000
25	3	7.589	7.588	-0.001
25	4	7.589	7.589	0.000
25	5	7.587	7.586	-0.001
20	6	7.588	7.589	0.001
20	7	7.586	7.586	0.000
20	8	7.587	7.587	0.000
20	9	7.589	7.588	-0.001
20	10	7.586	7.586	0.000
35	11	7.588	7.588	0.000
35	12	7.587	7.586	-0.001
35	13	7.587	7.587	0.000
35	14	7.587	7.586	-0.001
35	15	7.587	7.586	-0.001
30	16	7.587	7.586	-0.001
30	17	7.587	7.586	-0.001
30	18	7.587	7.586	-0.001
30	19	7.587	7.586	-0.001
30	20	7.589	7.588	-0.001
55	21	7.588	7.587	-0.001
55	22	7.587	7.586	-0.001
55	23	7.587	7.586	-0.001
55	24	7.587	7.587	0.000
55	25	7.587	7.586	-0.001
55	26	7.588	7.587	-0.001
55	27	7.589	7.588	-0.001
55	28	7.588	7.587	-0.001
55	29	7.587	7.586	-0.001
55	30	7.587	7.586	-0.001
55	31	7.589	7.588	-0.001
55	32	7.587	7.587	0.000
55	33	7.587	7.586	-0.001
55	34	7.587	7.586	-0.001
55	35	7.587	7.586	-0.001
55	36	7.587	7.586	-0.001
55	37	7.587	7.586	-0.001
55	38	7.587	7.586	-0.001
55	39	7.587	7.586	-0.001
55	40	7.587	7.586	-0.001
55	41	7.589	7.588	-0.001
55	42	7.587	7.586	-0.001
50	43	7.587	7.586	-0.001
50	44	7.587	7.586	-0.001
50	45	7.587	7.586	-0.001
50	46	7.587	7.586	-0.001
50	47	7.588	7.587	-0.001
	Max	7.589	7.589	0.001
	Average	7.587	7.587	-0.001
	Min	7.586	7.586	-0.001
	Std Dev	0.001	0.001	0.000

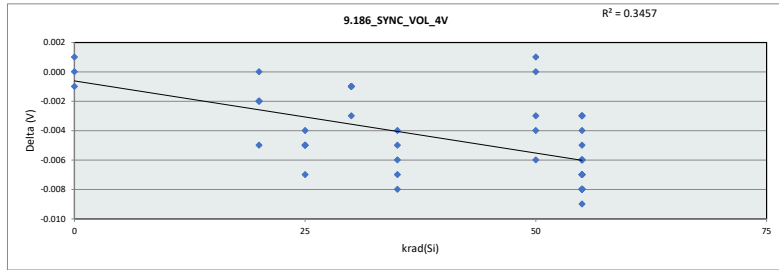
9.185_T_SYNC_DETECT							
Test Site							
Tester							
Test Number							
Max Limit	20	us					
Min Limit		us					
krad(Si)	0	20	25	30	35	50	55
LL							
Min	7.587	7.586	7.586	7.586	7.586	7.586	7.586
Average	7.587	7.587	7.588	7.586	7.587	7.586	7.587
Max	7.588	7.589	7.589	7.588	7.588	7.587	7.588
UL	20.000	20.000	20.000	20.000	20.000	20.000	20.000



**HDR TID Report
TPS7H5005-SEP**

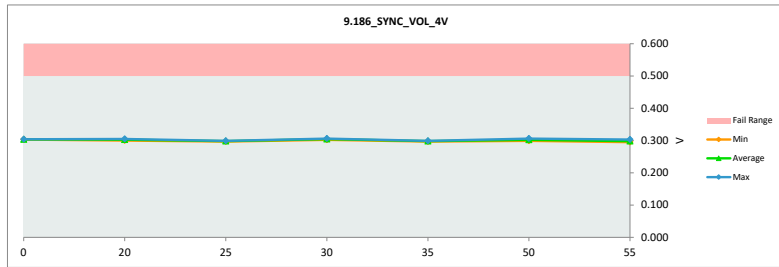
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.186_SYNC_VOL_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.5
Min Limit	0.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.304	0.304	0.000
0	51	0.304	0.303	-0.001
0	52	0.303	0.304	0.001
25	1	0.305	0.298	-0.007
25	2	0.304	0.299	-0.005
25	3	0.302	0.298	-0.004
25	4	0.302	0.297	-0.005
25	5	0.304	0.299	-0.005
20	6	0.305	0.300	-0.005
20	7	0.307	0.305	-0.002
20	8	0.307	0.305	-0.002
20	9	0.302	0.302	0.000
20	10	0.302	0.300	-0.002
35	11	0.304	0.299	-0.005
35	12	0.305	0.297	-0.008
35	13	0.305	0.298	-0.007
35	14	0.304	0.298	-0.006
35	15	0.303	0.299	-0.004
30	16	0.307	0.306	-0.001
30	17	0.305	0.304	-0.001
30	18	0.305	0.304	-0.001
30	19	0.305	0.302	-0.003
30	20	0.307	0.306	-0.001
55	21	0.303	0.296	-0.007
55	22	0.306	0.299	-0.007
55	23	0.306	0.300	-0.006
55	24	0.306	0.299	-0.007
55	25	0.307	0.303	-0.004
55	26	0.303	0.300	-0.003
55	27	0.305	0.302	-0.003
55	28	0.303	0.298	-0.005
55	29	0.303	0.300	-0.003
55	30	0.304	0.298	-0.006
55	31	0.305	0.297	-0.008
55	32	0.306	0.298	-0.008
55	33	0.303	0.296	-0.007
55	34	0.304	0.296	-0.008
55	35	0.304	0.297	-0.007
55	36	0.303	0.295	-0.008
55	37	0.307	0.299	-0.008
55	38	0.304	0.298	-0.006
55	39	0.305	0.296	-0.009
55	40	0.303	0.295	-0.008
55	41	0.304	0.298	-0.006
55	42	0.305	0.297	-0.008
50	43	0.303	0.299	-0.004
50	44	0.304	0.301	-0.003
50	45	0.304	0.305	0.001
50	46	0.306	0.306	0.000
50	47	0.306	0.300	-0.006
Max		0.307	0.306	0.001
Average		0.304	0.300	-0.005
Min		0.302	0.295	-0.009
Std Dev		0.001	0.003	0.003

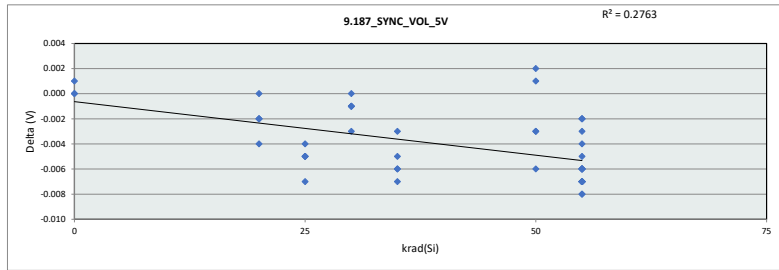
9.186_SYNC_VOL_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.5	V						
Min Limit		V						
LL								
Min		0.303	0.300	0.297	0.302	0.297	0.299	0.295
Average		0.304	0.302	0.298	0.304	0.298	0.302	0.298
Max		0.304	0.305	0.299	0.306	0.299	0.306	0.303
UL		0.500	0.500	0.500	0.500	0.500	0.500	0.500



**HDR TID Report
TPS7H5005-SEP**

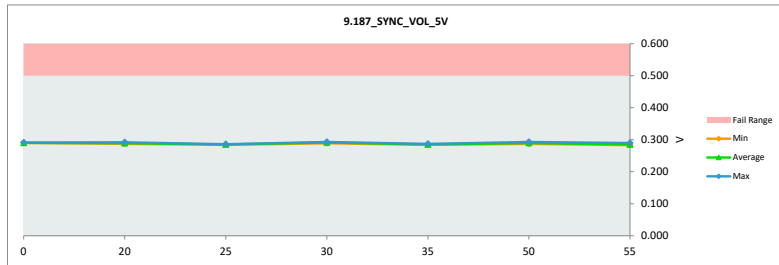
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.187_SYNC_VOL_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.5
Min Limit	0.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.290	0.291	0.001
0	51	0.290	0.290	0.000
0	52	0.290	0.290	0.000
25	1	0.292	0.285	-0.007
25	2	0.291	0.286	-0.005
25	3	0.289	0.285	-0.004
25	4	0.289	0.284	-0.005
25	5	0.291	0.286	-0.005
20	6	0.291	0.287	-0.004
20	7	0.294	0.292	-0.002
20	8	0.294	0.292	-0.002
20	9	0.289	0.289	0.000
20	10	0.289	0.287	-0.002
35	11	0.291	0.286	-0.005
35	12	0.291	0.284	-0.007
35	13	0.291	0.285	-0.006
35	14	0.291	0.285	-0.006
35	15	0.290	0.287	-0.003
30	16	0.294	0.293	-0.001
30	17	0.291	0.291	0.000
30	18	0.292	0.291	-0.001
30	19	0.292	0.289	-0.003
30	20	0.294	0.293	-0.001
55	21	0.290	0.283	-0.007
55	22	0.292	0.286	-0.006
55	23	0.293	0.287	-0.006
55	24	0.293	0.286	-0.007
55	25	0.293	0.290	-0.003
55	26	0.290	0.288	-0.002
55	27	0.292	0.290	-0.002
55	28	0.290	0.286	-0.004
55	29	0.290	0.288	-0.002
55	30	0.291	0.285	-0.006
55	31	0.292	0.285	-0.007
55	32	0.292	0.286	-0.006
55	33	0.290	0.284	-0.006
55	34	0.290	0.283	-0.007
55	35	0.291	0.284	-0.007
55	36	0.290	0.283	-0.007
55	37	0.293	0.286	-0.007
55	38	0.290	0.285	-0.005
55	39	0.291	0.283	-0.008
55	40	0.290	0.283	-0.007
55	41	0.291	0.285	-0.006
55	42	0.292	0.284	-0.008
50	43	0.290	0.287	-0.003
50	44	0.291	0.288	-0.003
50	45	0.291	0.293	0.002
50	46	0.292	0.293	0.001
50	47	0.293	0.287	-0.006
Max		0.294	0.293	0.002
Average		0.291	0.287	-0.004
Min		0.289	0.283	-0.008
Std Dev		0.001	0.003	0.003

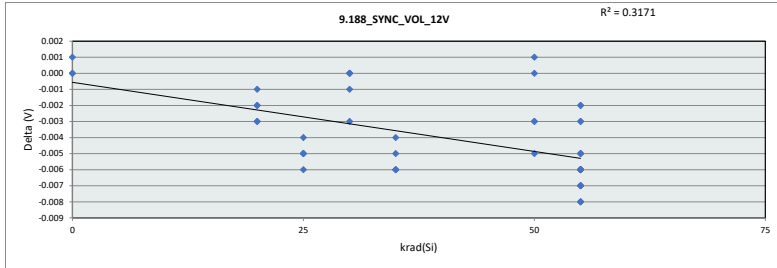
9.187_SYNC_VOL_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.5	V						
Min Limit		V						
LL								
Min	0.290	0.287	0.284	0.289	0.284	0.287	0.283	
Average	0.290	0.289	0.285	0.291	0.285	0.290	0.285	
Max	0.291	0.292	0.286	0.293	0.287	0.293	0.290	
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	



**HDR TID Report
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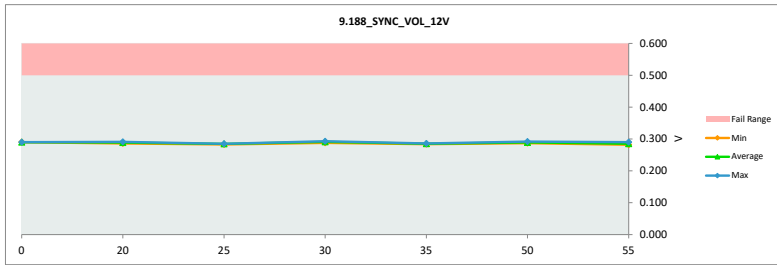
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.188_SYNC_VOL_12V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.5
Min Limit	0.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.290	0.290	0.000
0	51	0.290	0.290	0.000
0	52	0.289	0.290	0.001
25	1	0.291	0.285	-0.006
25	2	0.290	0.285	-0.005
25	3	0.289	0.285	-0.004
25	4	0.288	0.283	-0.005
25	5	0.290	0.285	-0.005
20	6	0.290	0.287	-0.003
20	7	0.293	0.291	-0.002
20	8	0.293	0.291	-0.002
20	9	0.289	0.288	-0.001
20	10	0.289	0.286	-0.003
35	11	0.291	0.286	-0.005
35	12	0.290	0.284	-0.006
35	13	0.291	0.285	-0.006
35	14	0.290	0.284	-0.006
35	15	0.290	0.286	-0.004
30	16	0.293	0.293	0.000
30	17	0.291	0.291	0.000
30	18	0.291	0.291	0.000
30	19	0.291	0.288	-0.003
30	20	0.293	0.292	-0.001
55	21	0.289	0.283	-0.006
55	22	0.292	0.285	-0.007
55	23	0.292	0.286	-0.006
55	24	0.292	0.286	-0.006
55	25	0.293	0.290	-0.003
55	26	0.289	0.287	-0.002
55	27	0.291	0.289	-0.002
55	28	0.290	0.285	-0.005
55	29	0.290	0.287	-0.003
55	30	0.291	0.285	-0.006
55	31	0.291	0.284	-0.007
55	32	0.292	0.286	-0.006
55	33	0.289	0.283	-0.006
55	34	0.290	0.282	-0.008
55	35	0.290	0.284	-0.006
55	36	0.290	0.282	-0.008
55	37	0.293	0.285	-0.008
55	38	0.290	0.285	-0.005
55	39	0.290	0.283	-0.007
55	40	0.289	0.283	-0.006
55	41	0.290	0.285	-0.005
55	42	0.291	0.284	-0.007
50	43	0.290	0.287	-0.003
50	44	0.291	0.288	-0.003
50	45	0.291	0.292	0.001
50	46	0.292	0.292	0.000
50	47	0.292	0.287	-0.005
Max		0.293	0.293	0.001
Average		0.291	0.287	-0.004
Min		0.288	0.282	-0.008
Std Dev		0.001	0.003	0.003

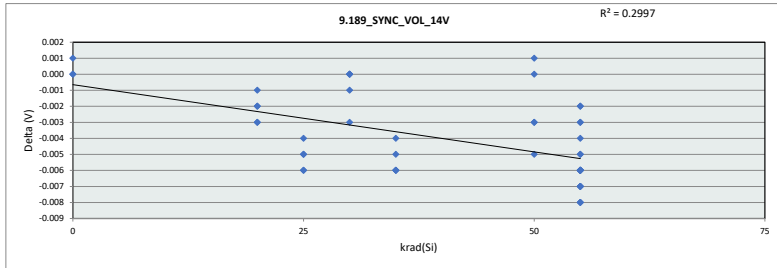
9.188_SYNC_VOL_12V								
Test Site								
Tester								
Test Number								
Max Limit	0.5	V						
Min Limit		V						
krad(Si)	0	20	25	30	35	50	55	
LL								
Min	0.290	0.286	0.283	0.288	0.284	0.287	0.282	
Average	0.290	0.289	0.285	0.291	0.285	0.289	0.285	
Max	0.290	0.291	0.285	0.293	0.286	0.292	0.290	
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	



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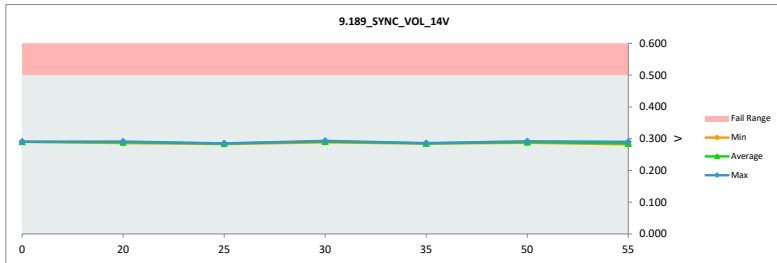
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

9.189_SYNC_VOL_14V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.5
Min Limit	0.5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.290	0.290	0.000
0	51	0.290	0.290	0.000
0	52	0.289	0.290	0.001
25	1	0.291	0.285	-0.006
25	2	0.290	0.285	-0.005
25	3	0.289	0.285	-0.004
25	4	0.289	0.283	-0.006
25	5	0.290	0.285	-0.005
20	6	0.290	0.287	-0.003
20	7	0.293	0.291	-0.002
20	8	0.293	0.291	-0.002
20	9	0.289	0.288	-0.001
20	10	0.289	0.286	-0.003
35	11	0.291	0.286	-0.005
35	12	0.290	0.284	-0.006
35	13	0.291	0.285	-0.006
35	14	0.290	0.284	-0.006
35	15	0.290	0.286	-0.004
30	16	0.293	0.293	0.000
30	17	0.291	0.291	0.000
30	18	0.291	0.291	0.000
30	19	0.291	0.288	-0.003
30	20	0.293	0.292	-0.001
55	21	0.289	0.283	-0.006
55	22	0.292	0.285	-0.007
55	23	0.292	0.286	-0.006
55	24	0.292	0.286	-0.006
55	25	0.293	0.290	-0.003
55	26	0.289	0.287	-0.002
55	27	0.291	0.289	-0.002
55	28	0.289	0.285	-0.004
55	29	0.290	0.287	-0.003
55	30	0.291	0.285	-0.006
55	31	0.291	0.284	-0.007
55	32	0.292	0.286	-0.006
55	33	0.289	0.283	-0.006
55	34	0.290	0.282	-0.008
55	35	0.290	0.284	-0.006
55	36	0.290	0.282	-0.008
55	37	0.293	0.285	-0.008
55	38	0.290	0.285	-0.005
55	39	0.290	0.283	-0.007
55	40	0.289	0.283	-0.006
55	41	0.290	0.285	-0.005
55	42	0.291	0.284	-0.007
50	43	0.290	0.287	-0.003
50	44	0.291	0.288	-0.003
50	45	0.291	0.292	0.001
50	46	0.292	0.292	0.000
50	47	0.292	0.287	-0.005
Max		0.293	0.293	0.001
Average		0.291	0.287	-0.004
Min		0.289	0.282	-0.008
Std Dev		0.001	0.003	0.003

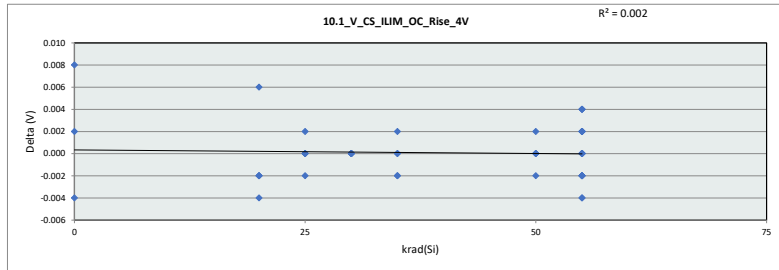
9.189_SYNC_VOL_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.5	V						
Min Limit		V						
LL								
Min	0.290	0.286	0.283	0.288	0.284	0.287	0.282	
Average	0.290	0.289	0.285	0.291	0.285	0.289	0.285	
Max	0.290	0.291	0.285	0.293	0.286	0.292	0.290	
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	



**HDR TID Report
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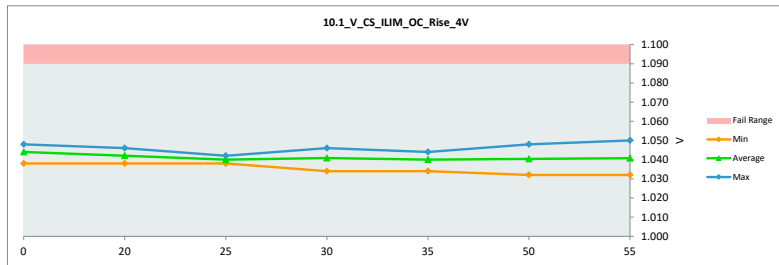
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

10.1_V_CS_ILIM_OC_Rise_4V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.09
Min Limit	1.09



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.046	1.048	0.002
0	51	1.038	1.046	0.008
0	52	1.042	1.038	-0.004
25	1	1.040	1.038	-0.002
25	2	1.040	1.042	0.002
25	3	1.038	1.038	0.000
25	4	1.040	1.040	0.000
25	5	1.042	1.042	0.000
20	6	1.044	1.040	-0.004
20	7	1.044	1.042	-0.002
20	8	1.046	1.044	-0.002
20	9	1.040	1.046	0.006
20	10	1.040	1.038	-0.002
35	11	1.036	1.034	-0.002
35	12	1.038	1.038	0.000
35	13	1.042	1.044	0.002
35	14	1.044	1.042	-0.002
35	15	1.042	1.042	0.000
30	16	1.040	1.040	0.000
30	17	1.040	1.040	0.000
30	18	1.044	1.044	0.000
30	19	1.034	1.034	0.000
30	20	1.046	1.046	0.000
55	21	1.046	1.044	-0.002
55	22	1.038	1.042	0.004
55	23	1.046	1.046	0.000
55	24	1.052	1.048	-0.004
55	25	1.044	1.046	0.002
55	26	1.042	1.042	0.000
55	27	1.042	1.040	-0.002
55	28	1.032	1.032	0.000
55	29	1.036	1.034	-0.002
55	30	1.038	1.038	0.000
55	31	1.044	1.046	0.002
55	32	1.044	1.044	0.000
55	33	1.036	1.032	-0.004
55	34	1.034	1.032	-0.002
55	35	1.040	1.044	0.004
55	36	1.040	1.042	0.002
55	37	1.036	1.040	0.004
55	38	1.048	1.050	0.002
55	39	1.034	1.036	0.002
55	40	1.040	1.038	-0.002
55	41	1.044	1.044	0.000
55	42	1.036	1.036	0.000
50	43	1.048	1.048	0.000
50	44	1.032	1.032	0.000
50	45	1.038	1.040	0.002
50	46	1.040	1.040	0.000
50	47	1.044	1.042	-0.002
Max		1.052	1.050	0.008
Average		1.041	1.041	0.000
Min		1.032	1.032	-0.004
Std Dev		0.004	0.005	0.002

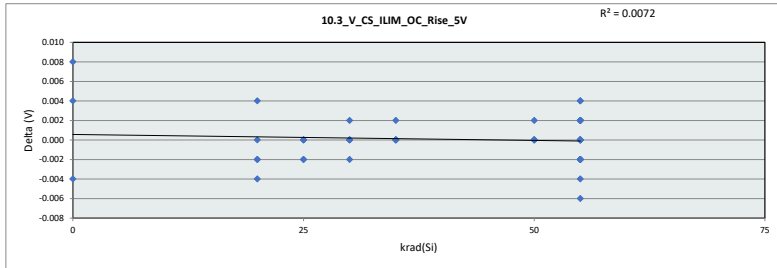
10.1_V_CS_ILIM_OC_Rise_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.09	V						
Min Limit	V							
LL								
Min	1.038	1.038	1.038	1.038	1.034	1.034	1.032	1.032
Average	1.044	1.042	1.040	1.041	1.040	1.040	1.040	1.041
Max	1.048	1.046	1.042	1.046	1.044	1.044	1.048	1.050
UL	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090



**HDR TID Report
TPS7H5005-SEP**

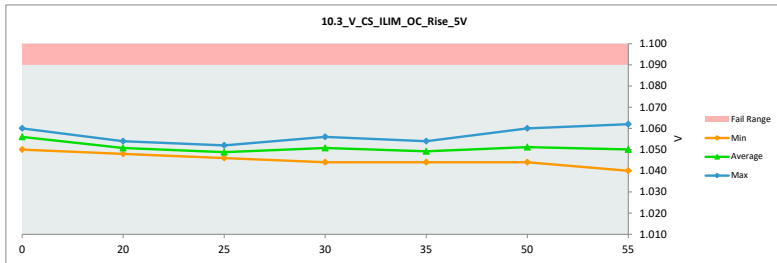
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

10.3_V_CS_ILIM_OC_Rise_5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.09
Min Limit	1.09



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.056	1.060	0.004
0	51	1.050	1.058	0.008
0	52	1.054	1.050	-0.004
25	1	1.050	1.048	-0.002
25	2	1.050	1.050	0.000
25	3	1.046	1.046	0.000
25	4	1.048	1.048	0.000
25	5	1.054	1.052	-0.002
20	6	1.052	1.048	-0.004
20	7	1.054	1.052	-0.002
20	8	1.054	1.052	-0.002
20	9	1.050	1.054	0.004
20	10	1.048	1.048	0.000
35	11	1.044	1.044	0.000
35	12	1.044	1.044	0.000
35	13	1.050	1.052	0.002
35	14	1.054	1.054	0.000
35	15	1.052	1.052	0.000
30	16	1.050	1.048	-0.002
30	17	1.048	1.050	0.002
30	18	1.056	1.056	0.000
30	19	1.044	1.044	0.000
30	20	1.056	1.056	0.000
55	21	1.056	1.054	-0.002
55	22	1.048	1.050	0.002
55	23	1.056	1.056	0.000
55	24	1.062	1.058	-0.004
55	25	1.054	1.056	0.002
55	26	1.050	1.048	-0.002
55	27	1.050	1.050	0.000
55	28	1.040	1.040	0.000
55	29	1.044	1.042	-0.002
55	30	1.048	1.048	0.000
55	31	1.052	1.056	0.004
55	32	1.054	1.054	0.000
55	33	1.046	1.040	-0.006
55	34	1.042	1.040	-0.002
55	35	1.052	1.054	0.002
55	36	1.050	1.052	0.002
55	37	1.046	1.050	0.004
55	38	1.060	1.062	0.002
55	39	1.044	1.046	0.002
55	40	1.050	1.048	-0.002
55	41	1.054	1.054	0.000
55	42	1.044	1.044	0.000
50	43	1.060	1.060	0.000
50	44	1.044	1.044	0.000
50	45	1.048	1.050	0.002
50	46	1.048	1.048	0.000
50	47	1.054	1.054	0.000
	Max	1.062	1.062	0.008
	Average	1.050	1.050	0.000
	Min	1.040	1.040	-0.006
	Std Dev	0.005	0.005	0.002

10.3_V_CS_ILIM_OC_Rise_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.09	V						
Min Limit	V							
LL								
Min	1.050	1.048	1.046	1.044	1.044	1.044	1.044	1.040
Average	1.056	1.051	1.049	1.051	1.049	1.051	1.051	1.050
Max	1.060	1.054	1.052	1.056	1.054	1.054	1.062	1.062
UL	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090

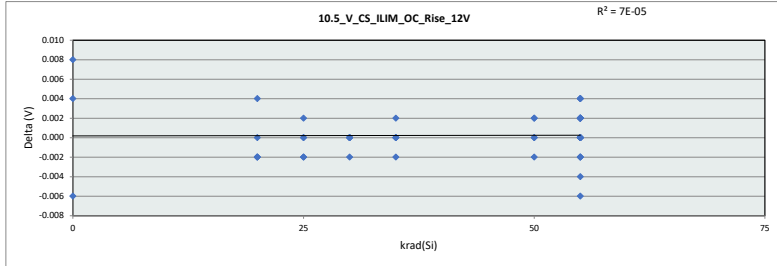


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

10.5_V_CS_ILIM_OC_Rise_12V

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

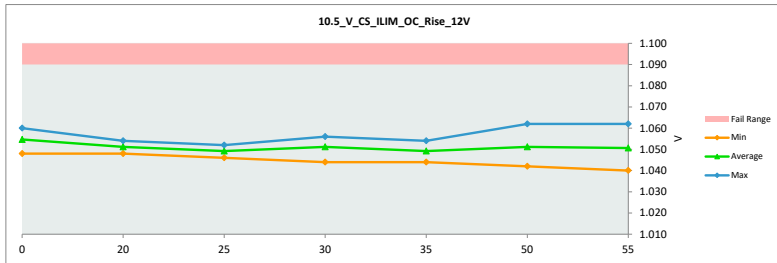


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.056	1.060	0.004
0	51	1.048	1.056	0.008
0	52	1.054	1.048	-0.006
25	1	1.050	1.048	-0.002
25	2	1.050	1.050	0.000
25	3	1.046	1.046	0.000
25	4	1.048	1.050	0.002
25	5	1.054	1.052	-0.002
20	6	1.052	1.050	-0.002
20	7	1.054	1.052	-0.002
20	8	1.054	1.052	-0.002
20	9	1.050	1.054	0.004
20	10	1.048	1.048	0.000
35	11	1.044	1.044	0.000
35	12	1.044	1.044	0.000
35	13	1.050	1.052	0.002
35	14	1.054	1.054	0.000
35	15	1.054	1.052	-0.002
30	16	1.050	1.050	0.000
30	17	1.050	1.050	0.000
30	18	1.056	1.056	0.000
30	19	1.044	1.044	0.000
30	20	1.058	1.056	-0.002
55	21	1.056	1.054	-0.002
55	22	1.048	1.052	0.004
55	23	1.056	1.056	0.000
55	24	1.062	1.058	-0.004
55	25	1.054	1.056	0.002
55	26	1.050	1.050	0.000
55	27	1.050	1.050	0.000
55	28	1.040	1.042	0.002
55	29	1.044	1.042	-0.002
55	30	1.048	1.050	0.002
55	31	1.052	1.056	0.004
55	32	1.054	1.054	0.000
55	33	1.046	1.040	-0.006
55	34	1.042	1.042	0.000
55	35	1.052	1.054	0.002
55	36	1.050	1.052	0.002
55	37	1.046	1.050	0.004
55	38	1.060	1.062	0.002
55	39	1.044	1.046	0.002
55	40	1.050	1.048	-0.002
55	41	1.054	1.054	0.000
55	42	1.046	1.046	0.000
50	43	1.060	1.062	0.002
50	44	1.044	1.042	-0.002
50	45	1.048	1.050	0.002
50	46	1.048	1.048	0.000
50	47	1.054	1.054	0.000
Max		1.062	1.062	0.008
Average		1.051	1.051	0.000
Min		1.040	1.040	-0.006
Std Dev		0.005	0.005	0.003

10.5_V_CS_ILIM_OC_Rise_12

Test Site	
Tester	
Test Number	
Max Limit	1.09
Min Limit	V

krad(Si)	0	20	25	30	35	50	55
LL							
Min	1.048	1.048	1.046	1.044	1.044	1.042	1.040
Average	1.055	1.051	1.049	1.051	1.049	1.051	1.051
Max	1.060	1.054	1.052	1.056	1.054	1.062	1.062
UL	1.090	1.090	1.090	1.090	1.090	1.090	1.090

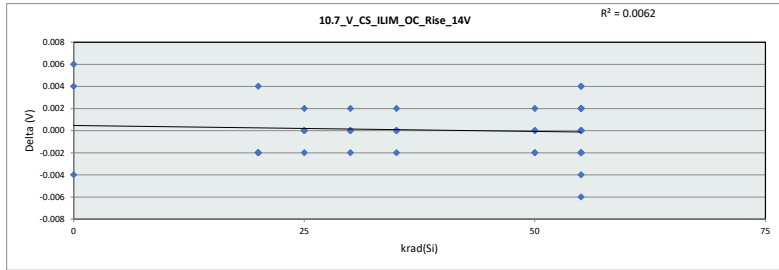


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

10.7_V_CS_ILIM_OC_Rise_14V

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

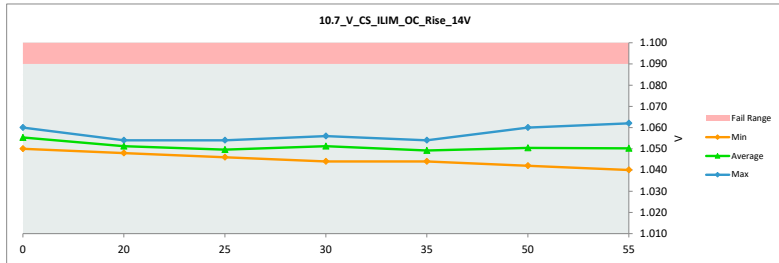


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	1.056	1.060	0.004
0	51	1.050	1.056	0.006
0	52	1.054	1.050	-0.004
25	1	1.050	1.048	-0.002
25	2	1.050	1.050	0.000
25	3	1.046	1.046	0.000
25	4	1.048	1.050	0.002
25	5	1.054	1.054	0.000
20	6	1.052	1.050	-0.002
20	7	1.054	1.052	-0.002
20	8	1.054	1.052	-0.002
20	9	1.050	1.054	0.004
20	10	1.050	1.048	-0.002
35	11	1.044	1.044	0.000
35	12	1.044	1.044	0.000
35	13	1.050	1.052	0.002
35	14	1.054	1.054	0.000
35	15	1.054	1.052	-0.002
30	16	1.050	1.050	0.000
30	17	1.048	1.050	0.002
30	18	1.056	1.056	0.000
30	19	1.046	1.044	-0.002
30	20	1.056	1.056	0.000
55	21	1.056	1.054	-0.002
55	22	1.048	1.052	0.004
55	23	1.056	1.056	0.000
55	24	1.062	1.056	-0.006
55	25	1.054	1.056	0.002
55	26	1.050	1.050	0.000
55	27	1.050	1.050	0.000
55	28	1.040	1.042	0.002
55	29	1.044	1.042	-0.002
55	30	1.048	1.048	0.000
55	31	1.054	1.056	0.002
55	32	1.054	1.054	0.000
55	33	1.044	1.040	-0.004
55	34	1.042	1.040	-0.002
55	35	1.052	1.054	0.002
55	36	1.050	1.050	0.000
55	37	1.046	1.050	0.004
55	38	1.060	1.062	0.002
55	39	1.044	1.046	0.002
55	40	1.050	1.048	-0.002
55	41	1.054	1.054	0.000
55	42	1.044	1.044	0.000
50	43	1.060	1.060	0.000
50	44	1.044	1.042	-0.002
50	45	1.048	1.050	0.002
50	46	1.048	1.048	0.000
50	47	1.054	1.052	-0.002
Max		1.062	1.062	0.006
Average		1.051	1.051	0.000
Min		1.040	1.040	-0.006
Std Dev		0.005	0.005	0.002

10.7_V_CS_ILIM_OC_Rise_14

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

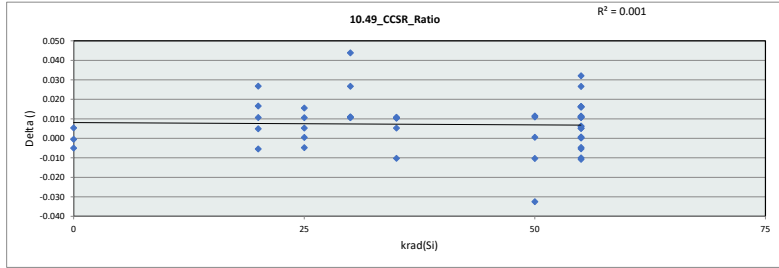
krad(Si)	0	20	25	30	35	50	55
LL							
Min	1.050	1.048	1.046	1.044	1.044	1.042	1.040
Average	1.055	1.051	1.050	1.051	1.049	1.050	1.050
Max	1.060	1.054	1.054	1.056	1.054	1.060	1.062
UL	1.090	1.090	1.090	1.090	1.090	1.090	1.090



**HDR TID Report
TPS7H5005-SEP**

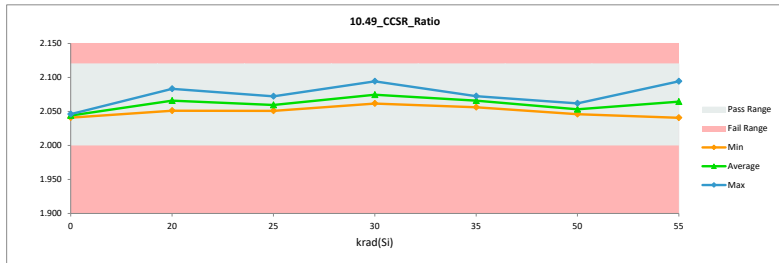
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

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



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	2.046	2.045	-0.001
0	51	2.041	2.046	0.005
0	52	2.046	2.041	-0.005
25	1	2.062	2.072	0.010
25	2	2.046	2.051	0.005
25	3	2.072	2.067	-0.005
25	4	2.041	2.056	0.015
25	5	2.051	2.051	0.000
20	6	2.051	2.078	0.027
20	7	2.067	2.083	0.016
20	8	2.046	2.051	0.005
20	9	2.067	2.062	-0.006
20	10	2.046	2.056	0.011
35	11	2.062	2.072	0.010
35	12	2.072	2.062	-0.010
35	13	2.062	2.072	0.011
35	14	2.062	2.067	0.005
35	15	2.046	2.056	0.011
30	16	2.056	2.067	0.011
30	17	2.051	2.094	0.044
30	18	2.056	2.067	0.011
30	19	2.051	2.062	0.011
30	20	2.056	2.083	0.027
55	21	2.057	2.089	0.032
55	22	2.046	2.056	0.011
55	23	2.045	2.046	0.000
55	24	2.083	2.072	-0.011
55	25	2.051	2.056	0.005
55	26	2.051	2.041	-0.010
55	27	2.078	2.094	0.016
55	28	2.061	2.067	0.006
55	29	2.046	2.051	0.005
55	30	2.067	2.083	0.016
55	31	2.041	2.056	0.016
55	32	2.056	2.073	0.016
55	33	2.051	2.046	-0.005
55	34	2.057	2.083	0.027
55	35	2.072	2.068	-0.005
55	36	2.046	2.056	0.011
55	37	2.056	2.062	0.006
55	38	2.062	2.073	0.011
55	39	2.067	2.078	0.011
55	40	2.045	2.057	0.011
55	41	2.061	2.062	0.001
55	42	2.051	2.051	0.000
50	43	2.045	2.046	0.000
50	44	2.045	2.056	0.011
50	45	2.045	2.057	0.011
50	46	2.056	2.046	-0.010
50	47	2.094	2.062	-0.033
Max		2.094	2.094	0.044
Average		2.056	2.063	0.007
Min		2.041	2.041	-0.033
Std Dev		0.012	0.014	0.013

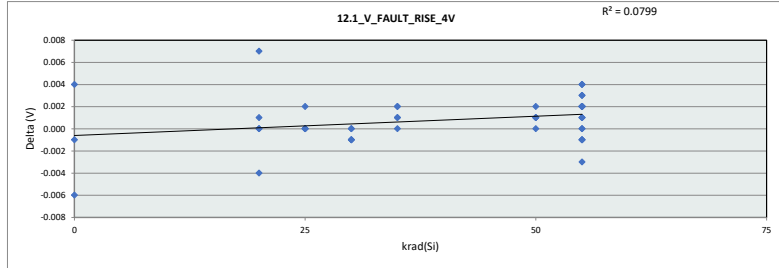
10.49_CCSR_Ratio		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	2.12							
Min Limit	2							
krad(Si)		0	20	25	30	35	50	55
LL		2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min		2.041	2.051	2.051	2.062	2.056	2.046	2.041
Average		2.044	2.066	2.060	2.075	2.066	2.053	2.065
Max		2.046	2.083	2.072	2.094	2.072	2.062	2.094
UL		2.120	2.120	2.120	2.120	2.120	2.120	2.120



**HDR TID Report
TPS7H5005-SEP**

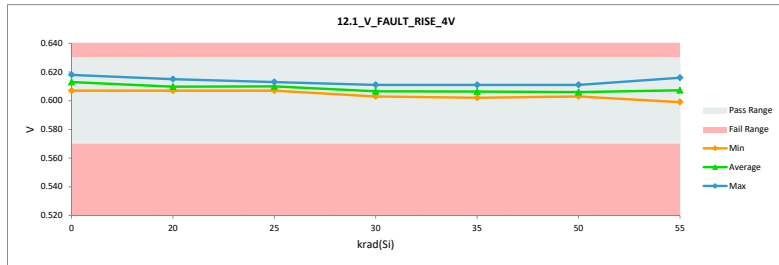
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.1_V_FAULT_RISE_4V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.57	0.57



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.613	0.607	-0.006
0	51	0.614	0.618	0.004
0	52	0.615	0.614	-0.001
25	1	0.608	0.610	0.002
25	2	0.611	0.611	0.000
25	3	0.613	0.613	0.000
25	4	0.609	0.609	0.000
25	5	0.607	0.607	0.000
20	6	0.613	0.609	-0.004
20	7	0.609	0.610	0.001
20	8	0.608	0.608	0.000
20	9	0.608	0.615	0.007
20	10	0.607	0.607	0.000
35	11	0.603	0.604	0.001
35	12	0.611	0.611	0.000
35	13	0.607	0.609	0.002
35	14	0.601	0.602	0.001
35	15	0.604	0.606	0.002
30	16	0.609	0.608	-0.001
30	17	0.604	0.603	-0.001
30	18	0.607	0.607	0.000
30	19	0.612	0.611	-0.001
30	20	0.604	0.604	0.000
55	21	0.605	0.605	0.000
55	22	0.603	0.605	0.002
55	23	0.613	0.614	0.001
55	24	0.606	0.605	-0.001
55	25	0.605	0.608	0.003
55	26	0.606	0.610	0.004
55	27	0.606	0.608	0.002
55	28	0.608	0.609	0.001
55	29	0.607	0.610	0.003
55	30	0.612	0.616	0.004
55	31	0.602	0.604	0.002
55	32	0.608	0.610	0.002
55	33	0.603	0.600	-0.003
55	34	0.601	0.601	0.000
55	35	0.601	0.600	-0.001
55	36	0.608	0.610	0.002
55	37	0.605	0.606	0.001
55	38	0.609	0.611	0.002
55	39	0.608	0.610	0.002
55	40	0.606	0.608	0.002
55	41	0.610	0.612	0.002
55	42	0.600	0.599	-0.001
50	43	0.604	0.606	0.002
50	44	0.610	0.611	0.001
50	45	0.604	0.605	0.001
50	46	0.604	0.605	0.001
50	47	0.603	0.603	0.000
	Max	0.615	0.618	0.007
	Average	0.607	0.608	0.001
	Min	0.600	0.599	-0.006
	Std Dev	0.004	0.004	0.002

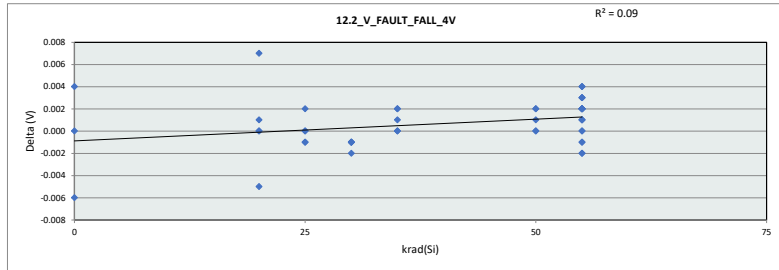
12.1_V_FAULT_RISE_4V							
Test Site							
Tester							
Test Number							
Max Limit	0.63	V					
Min Limit	0.57	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.607	0.607	0.607	0.603	0.602	0.603	0.599
Average	0.613	0.610	0.610	0.607	0.606	0.606	0.607
Max	0.618	0.615	0.613	0.611	0.611	0.611	0.616
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630



**HDR TID Report
TPS7H5005-SEP**

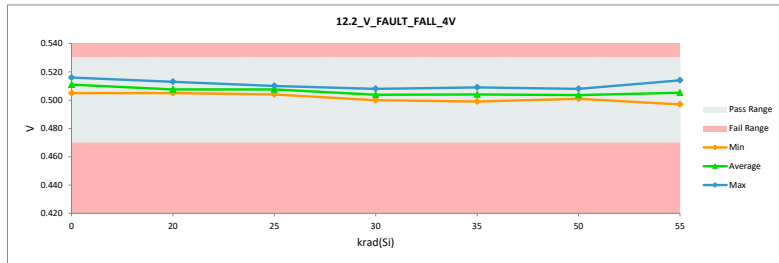
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.2_V_FAULT_FALL_4V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.511	0.505	-0.006
0	51	0.512	0.516	0.004
0	52	0.512	0.512	0.000
25	1	0.506	0.508	0.002
25	2	0.510	0.509	-0.001
25	3	0.510	0.510	0.000
25	4	0.507	0.507	0.000
25	5	0.505	0.504	-0.001
20	6	0.511	0.506	-0.005
20	7	0.507	0.508	0.001
20	8	0.506	0.506	0.000
20	9	0.506	0.513	0.007
20	10	0.505	0.505	0.000
35	11	0.500	0.501	0.001
35	12	0.509	0.509	0.000
35	13	0.505	0.507	0.002
35	14	0.499	0.499	0.000
35	15	0.502	0.504	0.002
30	16	0.507	0.506	-0.001
30	17	0.502	0.500	-0.002
30	18	0.505	0.504	-0.001
30	19	0.509	0.508	-0.001
30	20	0.502	0.501	-0.001
55	21	0.503	0.503	0.000
55	22	0.501	0.503	0.002
55	23	0.511	0.512	0.001
55	24	0.504	0.502	-0.002
55	25	0.503	0.506	0.003
55	26	0.504	0.508	0.004
55	27	0.504	0.507	0.003
55	28	0.506	0.507	0.001
55	29	0.505	0.508	0.003
55	30	0.510	0.514	0.004
55	31	0.500	0.501	0.001
55	32	0.506	0.508	0.002
55	33	0.500	0.498	-0.002
55	34	0.499	0.499	0.000
55	35	0.499	0.498	-0.001
55	36	0.506	0.508	0.002
55	37	0.502	0.504	0.002
55	38	0.507	0.509	0.002
55	39	0.505	0.507	0.002
55	40	0.504	0.506	0.002
55	41	0.508	0.510	0.002
55	42	0.498	0.497	-0.001
50	43	0.502	0.503	0.001
50	44	0.508	0.508	0.000
50	45	0.501	0.503	0.002
50	46	0.501	0.503	0.002
50	47	0.501	0.501	0.000
	Max	0.512	0.516	0.007
	Average	0.505	0.506	0.001
	Min	0.498	0.497	-0.006
	Std Dev	0.004	0.004	0.002

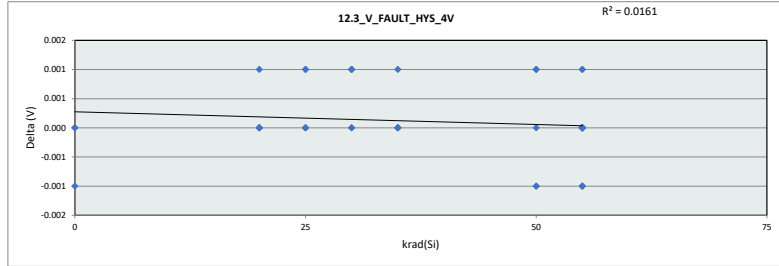
12.2_V_FAULT_FALL_4V							
Test Site							
Tester							
Test Number							
Max Limit	0.53	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.505	0.505	0.504	0.500	0.499	0.501	0.497
Average	0.511	0.508	0.508	0.504	0.504	0.504	0.505
Max	0.516	0.513	0.510	0.508	0.509	0.508	0.514
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530



**HDR TID Report
TPS7H5005-SEP**

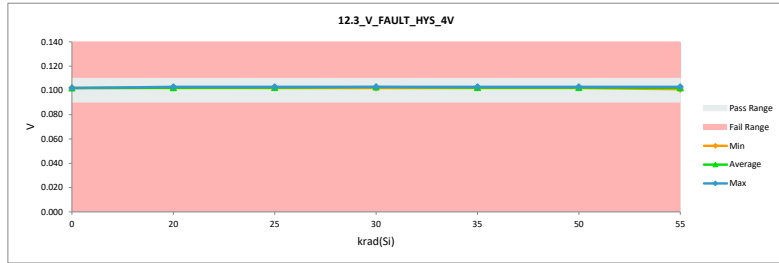
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.3_V_FAULT_HYS_4V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.11
Min Limit	0.09	0.09



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.102	0.102	0.000
0	51	0.102	0.102	0.000
0	52	0.103	0.102	-0.001
25	1	0.102	0.102	0.000
25	2	0.101	0.102	0.001
25	3	0.103	0.103	0.000
25	4	0.102	0.102	0.000
25	5	0.102	0.103	0.001
20	6	0.102	0.103	0.001
20	7	0.102	0.102	0.000
20	8	0.102	0.102	0.000
20	9	0.102	0.102	0.000
20	10	0.102	0.102	0.000
35	11	0.103	0.103	0.000
35	12	0.102	0.102	0.000
35	13	0.102	0.102	0.000
35	14	0.102	0.103	0.001
35	15	0.102	0.102	0.000
30	16	0.102	0.102	0.000
30	17	0.102	0.103	0.001
30	18	0.102	0.103	0.001
30	19	0.103	0.103	0.000
30	20	0.102	0.103	0.001
55	21	0.102	0.102	0.000
55	22	0.102	0.102	0.000
55	23	0.102	0.102	0.000
55	24	0.102	0.103	0.001
55	25	0.102	0.102	0.000
55	26	0.102	0.102	0.000
55	27	0.102	0.101	-0.001
55	28	0.102	0.102	0.000
55	29	0.102	0.102	0.000
55	30	0.102	0.102	0.000
55	31	0.102	0.103	0.001
55	32	0.102	0.102	0.000
55	33	0.103	0.102	-0.001
55	34	0.102	0.102	0.000
55	35	0.102	0.102	0.000
55	36	0.102	0.102	0.000
55	37	0.103	0.102	-0.001
55	38	0.102	0.102	0.000
55	39	0.103	0.103	0.000
55	40	0.102	0.102	0.000
55	41	0.102	0.102	0.000
55	42	0.102	0.102	0.000
50	43	0.102	0.103	0.001
50	44	0.102	0.103	0.001
50	45	0.103	0.102	-0.001
50	46	0.103	0.102	-0.001
50	47	0.102	0.102	0.000
Max		0.103	0.103	0.001
Average		0.102	0.102	0.000
Min		0.101	0.101	-0.001
Std Dev		0.000	0.000	0.001

12.3_V_FAULT_HYS_4V							
Test Site							
Tester							
Test Number							
Max Limit	0.11	V					
Min Limit	0.09	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Min	0.102	0.102	0.102	0.102	0.102	0.102	0.101
Average	0.102	0.102	0.102	0.103	0.102	0.102	0.102
Max	0.102	0.103	0.103	0.103	0.103	0.103	0.103
UL	0.110	0.110	0.110	0.110	0.110	0.110	0.110

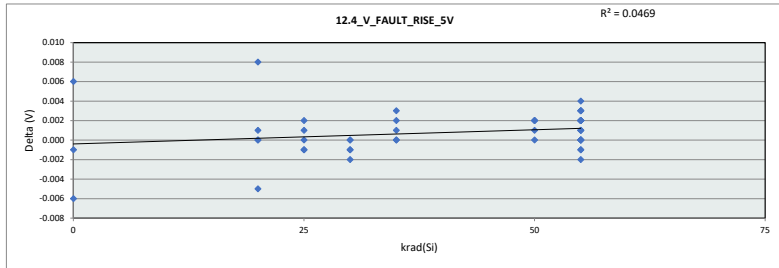


**HDR TID Report
TPS7H5005-SEP**

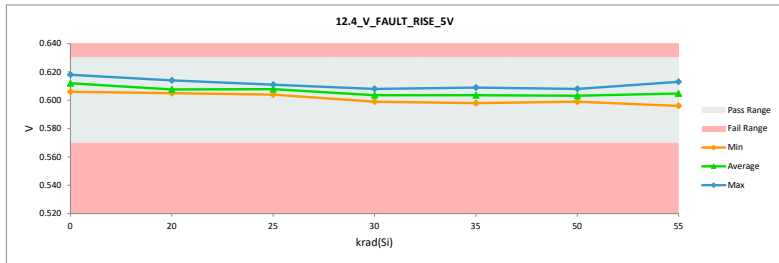
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.4_V_FAULT_RISE_5V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.57	0.57

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.612	0.606	-0.006
0	51	0.612	0.618	0.006
0	52	0.613	0.612	-0.001
25	1	0.606	0.608	0.002
25	2	0.609	0.609	0.000
25	3	0.610	0.611	0.001
25	4	0.608	0.607	-0.001
25	5	0.605	0.604	-0.001
20	6	0.612	0.607	-0.005
20	7	0.607	0.607	0.000
20	8	0.605	0.605	0.000
20	9	0.606	0.614	0.008
20	10	0.604	0.605	0.001
35	11	0.600	0.601	0.001
35	12	0.609	0.609	0.000
35	13	0.604	0.607	0.003
35	14	0.598	0.598	0.000
35	15	0.601	0.603	0.002
30	16	0.606	0.605	-0.001
30	17	0.601	0.599	-0.002
30	18	0.605	0.605	0.000
30	19	0.608	0.608	0.000
30	20	0.602	0.601	-0.001
55	21	0.602	0.602	0.000
55	22	0.601	0.603	0.002
55	23	0.611	0.611	0.000
55	24	0.603	0.602	-0.001
55	25	0.604	0.606	0.002
55	26	0.603	0.607	0.004
55	27	0.603	0.606	0.003
55	28	0.606	0.606	0.000
55	29	0.605	0.607	0.002
55	30	0.610	0.613	0.003
55	31	0.600	0.601	0.001
55	32	0.607	0.609	0.002
55	33	0.600	0.598	-0.002
55	34	0.599	0.599	0.000
55	35	0.597	0.597	0.000
55	36	0.606	0.607	0.001
55	37	0.602	0.604	0.002
55	38	0.606	0.609	0.003
55	39	0.605	0.607	0.002
55	40	0.604	0.606	0.002
55	41	0.608	0.609	0.001
55	42	0.597	0.596	-0.001
50	43	0.601	0.603	0.002
50	44	0.607	0.608	0.001
50	45	0.602	0.604	0.002
50	46	0.600	0.602	0.002
50	47	0.599	0.599	0.000
Max		0.613	0.618	0.008
Average		0.605	0.605	0.001
Min		0.597	0.596	-0.006
Std Dev		0.004	0.005	0.002



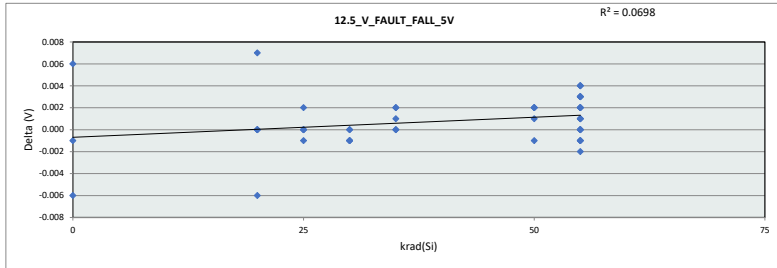
12.4_V_FAULT_RISE_5V							
Test Site							
Tester							
Test Number							
Max Limit	0.63	V					
Min Limit	0.57	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.606	0.605	0.604	0.599	0.598	0.599	0.596
Average	0.612	0.608	0.608	0.604	0.604	0.603	0.605
Max	0.618	0.614	0.611	0.608	0.609	0.608	0.613
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630



**HDR TID Report
TPS7H5005-SEP**

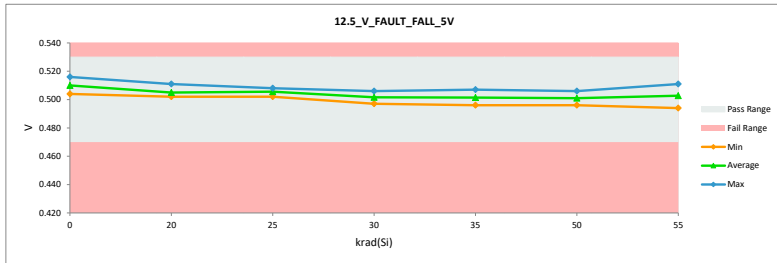
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.5_V_FAULT_FALL_5V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.510	0.504	-0.006
0	51	0.510	0.516	0.006
0	52	0.511	0.510	-0.001
25	1	0.504	0.506	0.002
25	2	0.507	0.507	0.000
25	3	0.508	0.508	0.000
25	4	0.506	0.505	-0.001
25	5	0.502	0.502	0.000
20	6	0.510	0.504	-0.006
20	7	0.505	0.505	0.000
20	8	0.503	0.503	0.000
20	9	0.504	0.511	0.007
20	10	0.502	0.502	0.000
35	11	0.498	0.499	0.001
35	12	0.507	0.507	0.000
35	13	0.502	0.504	0.002
35	14	0.496	0.496	0.000
35	15	0.499	0.501	0.002
30	16	0.504	0.503	-0.001
30	17	0.498	0.497	-0.001
30	18	0.503	0.503	0.000
30	19	0.506	0.506	0.000
30	20	0.500	0.499	-0.001
55	21	0.500	0.500	0.000
55	22	0.499	0.501	0.002
55	23	0.509	0.509	0.000
55	24	0.501	0.500	-0.001
55	25	0.501	0.504	0.003
55	26	0.501	0.505	0.004
55	27	0.501	0.504	0.003
55	28	0.504	0.504	0.000
55	29	0.503	0.506	0.003
55	30	0.507	0.511	0.004
55	31	0.498	0.499	0.001
55	32	0.505	0.506	0.001
55	33	0.498	0.496	-0.002
55	34	0.497	0.496	-0.001
55	35	0.495	0.495	0.000
55	36	0.503	0.504	0.001
55	37	0.500	0.502	0.002
55	38	0.504	0.508	0.004
55	39	0.502	0.505	0.003
55	40	0.502	0.504	0.002
55	41	0.505	0.507	0.002
55	42	0.495	0.494	-0.001
50	43	0.499	0.501	0.002
50	44	0.505	0.506	0.001
50	45	0.500	0.502	0.002
50	46	0.498	0.500	0.002
50	47	0.497	0.496	-0.001
	Max	0.511	0.516	0.007
	Average	0.502	0.503	0.001
	Min	0.495	0.494	-0.006
	Std Dev	0.004	0.005	0.002

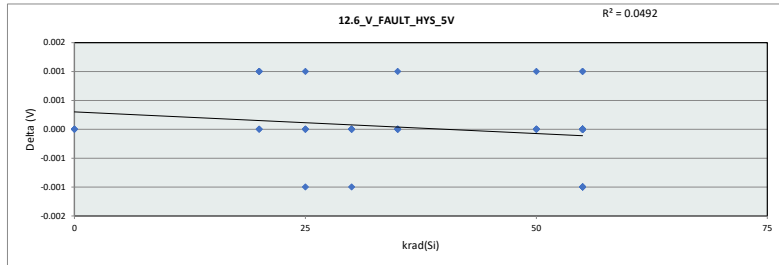
12.5_V_FAULT_FALL_5V							
Test Site							
Tester							
Test Number							
Max Limit	0.53	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.504	0.502	0.502	0.497	0.496	0.496	0.494
Average	0.510	0.505	0.506	0.502	0.501	0.501	0.503
Max	0.516	0.511	0.508	0.506	0.507	0.506	0.511
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530



**HDR TID Report
TPS7H5005-SEP**

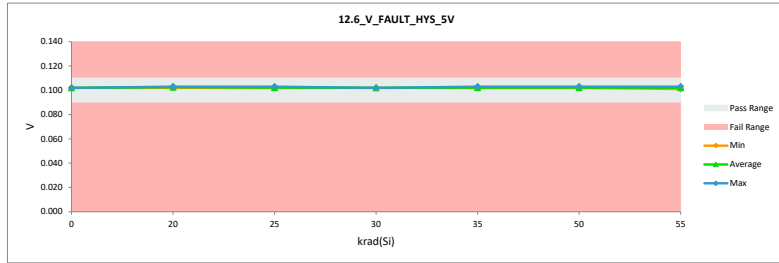
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.6_V_FAULT_HYS_5V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.11
Min Limit	0.09	0.09



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.102	0.102	0.000
0	51	0.102	0.102	0.000
0	52	0.102	0.102	0.000
25	1	0.102	0.102	0.000
25	2	0.102	0.102	0.000
25	3	0.102	0.103	0.001
25	4	0.102	0.102	0.000
25	5	0.103	0.102	-0.001
20	6	0.102	0.103	0.001
20	7	0.102	0.102	0.000
20	8	0.102	0.102	0.000
20	9	0.102	0.103	0.001
20	10	0.102	0.103	0.001
35	11	0.102	0.102	0.000
35	12	0.102	0.102	0.000
35	13	0.102	0.103	0.001
35	14	0.102	0.102	0.000
35	15	0.102	0.102	0.000
30	16	0.102	0.102	0.000
30	17	0.103	0.102	-0.001
30	18	0.102	0.102	0.000
30	19	0.102	0.102	0.000
30	20	0.102	0.102	0.000
55	21	0.102	0.102	0.000
55	22	0.102	0.102	0.000
55	23	0.102	0.102	0.000
55	24	0.102	0.102	0.000
55	25	0.103	0.102	-0.001
55	26	0.102	0.102	0.000
55	27	0.102	0.102	0.000
55	28	0.102	0.102	0.000
55	29	0.102	0.101	-0.001
55	30	0.103	0.102	-0.001
55	31	0.102	0.102	0.000
55	32	0.102	0.103	0.001
55	33	0.102	0.102	0.000
55	34	0.102	0.103	0.001
55	35	0.102	0.102	0.000
55	36	0.103	0.103	0.000
55	37	0.102	0.102	0.000
55	38	0.102	0.101	-0.001
55	39	0.103	0.102	-0.001
55	40	0.102	0.102	0.000
55	41	0.103	0.102	-0.001
55	42	0.102	0.102	0.000
50	43	0.102	0.102	0.000
50	44	0.102	0.102	0.000
50	45	0.102	0.102	0.000
50	46	0.102	0.102	0.000
50	47	0.102	0.103	0.001
Max		0.103	0.103	0.001
Average		0.102	0.102	0.000
Min		0.102	0.101	-0.001
Std Dev		0.000	0.000	0.001

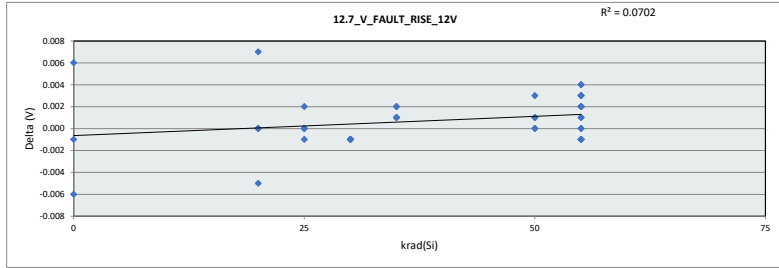
12.6_V_FAULT_HYS_5V							
Test Site							
Tester							
Test Number							
Max Limit	0.11	V					
Min Limit	0.09	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Min	0.102	0.102	0.102	0.102	0.102	0.102	0.101
Average	0.102	0.103	0.102	0.102	0.102	0.102	0.102
Max	0.102	0.103	0.103	0.102	0.103	0.103	0.103
UL	0.110	0.110	0.110	0.110	0.110	0.110	0.110



**HDR TID Report
TPS7H5005-SEP**

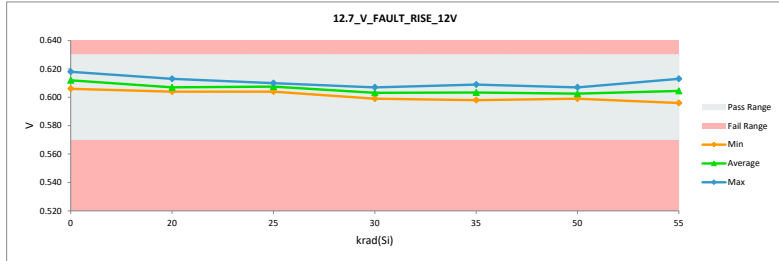
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.7_V_FAULT_RISE_12V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.57	0.57



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.612	0.606	-0.006
0	51	0.612	0.618	0.006
0	52	0.613	0.612	-0.001
25	1	0.606	0.608	0.002
25	2	0.609	0.609	0.000
25	3	0.610	0.610	0.000
25	4	0.608	0.607	-0.001
25	5	0.604	0.604	0.000
20	6	0.611	0.606	-0.005
20	7	0.607	0.607	0.000
20	8	0.605	0.605	0.000
20	9	0.606	0.613	0.007
20	10	0.604	0.604	0.000
35	11	0.600	0.601	0.001
35	12	0.608	0.609	0.001
35	13	0.604	0.606	0.002
35	14	0.597	0.598	0.001
35	15	0.601	0.603	0.002
30	16	0.606	0.605	-0.001
30	17	0.600	0.599	-0.001
30	18	0.605	0.604	-0.001
30	19	0.608	0.607	-0.001
30	20	0.602	0.601	-0.001
55	21	0.602	0.601	-0.001
55	22	0.601	0.602	0.001
55	23	0.610	0.611	0.001
55	24	0.603	0.602	-0.001
55	25	0.603	0.606	0.003
55	26	0.603	0.607	0.004
55	27	0.603	0.605	0.002
55	28	0.606	0.606	0.000
55	29	0.605	0.607	0.002
55	30	0.609	0.613	0.004
55	31	0.599	0.601	0.002
55	32	0.607	0.609	0.002
55	33	0.599	0.598	-0.001
55	34	0.598	0.598	0.000
55	35	0.597	0.596	-0.001
55	36	0.605	0.607	0.002
55	37	0.602	0.604	0.002
55	38	0.606	0.609	0.003
55	39	0.604	0.607	0.003
55	40	0.604	0.606	0.002
55	41	0.607	0.609	0.002
55	42	0.597	0.596	-0.001
50	43	0.600	0.603	0.003
50	44	0.607	0.607	0.000
50	45	0.602	0.603	0.001
50	46	0.600	0.601	0.001
50	47	0.599	0.599	0.000
Max		0.613	0.618	0.007
Average		0.604	0.605	0.001
Min		0.597	0.596	-0.006
Std Dev		0.004	0.005	0.002

12.7_V_FAULT_RISE_12V							
Test Site							
Tester							
Test Number							
Max Limit	0.63	V					
Min Limit	0.57	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.606	0.604	0.604	0.604	0.599	0.598	0.599
Average	0.612	0.607	0.608	0.603	0.603	0.603	0.605
Max	0.618	0.613	0.610	0.607	0.609	0.607	0.613
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630

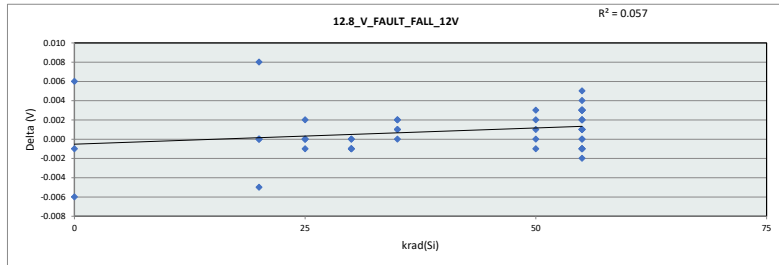


**HDR TID Report
TPS7H5005-SEP**

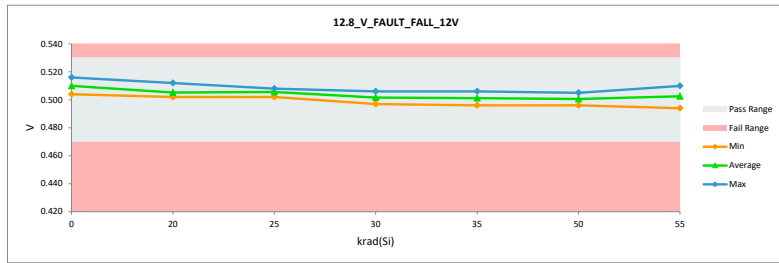
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.8_V_FAULT_FALL_12V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.510	0.504	-0.006
0	51	0.510	0.516	0.006
0	52	0.511	0.510	-0.001
25	1	0.504	0.506	0.002
25	2	0.507	0.507	0.000
25	3	0.508	0.508	0.000
25	4	0.506	0.505	-0.001
25	5	0.502	0.502	0.000
20	6	0.509	0.504	-0.005
20	7	0.505	0.505	0.000
20	8	0.503	0.503	0.000
20	9	0.504	0.512	0.008
20	10	0.502	0.502	0.000
35	11	0.498	0.499	0.001
35	12	0.506	0.506	0.000
35	13	0.502	0.504	0.002
35	14	0.495	0.496	0.001
35	15	0.499	0.501	0.002
30	16	0.504	0.503	-0.001
30	17	0.498	0.497	-0.001
30	18	0.503	0.503	0.000
30	19	0.506	0.506	0.000
30	20	0.500	0.499	-0.001
55	21	0.500	0.499	-0.001
55	22	0.499	0.500	0.001
55	23	0.508	0.509	0.001
55	24	0.501	0.500	-0.001
55	25	0.501	0.504	0.003
55	26	0.501	0.506	0.005
55	27	0.501	0.504	0.003
55	28	0.504	0.504	0.000
55	29	0.503	0.505	0.002
55	30	0.507	0.510	0.003
55	31	0.497	0.498	0.001
55	32	0.505	0.507	0.002
55	33	0.497	0.495	-0.002
55	34	0.496	0.496	0.000
55	35	0.495	0.494	-0.001
55	36	0.503	0.504	0.001
55	37	0.499	0.502	0.003
55	38	0.504	0.508	0.004
55	39	0.502	0.505	0.003
55	40	0.501	0.504	0.003
55	41	0.505	0.507	0.002
55	42	0.495	0.494	-0.001
50	43	0.498	0.501	0.003
50	44	0.505	0.505	0.000
50	45	0.500	0.502	0.002
50	46	0.498	0.499	0.001
50	47	0.497	0.496	-0.001
Max		0.511	0.516	0.008
Average		0.502	0.503	0.001
Min		0.495	0.494	-0.006
Std Dev		0.004	0.005	0.002



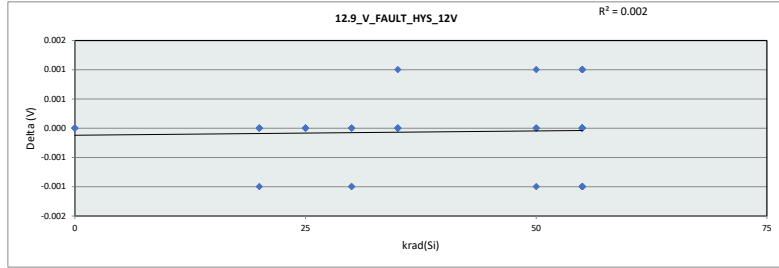
12.8_V_FAULT_FALL_12V							
Test Site							
Tester							
Test Number							
Max Limit	0.53	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.504	0.502	0.502	0.497	0.496	0.496	0.494
Average	0.510	0.505	0.506	0.502	0.501	0.501	0.503
Max	0.516	0.512	0.508	0.506	0.506	0.506	0.510
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530



**HDR TID Report
TPS7H5005-SEP**

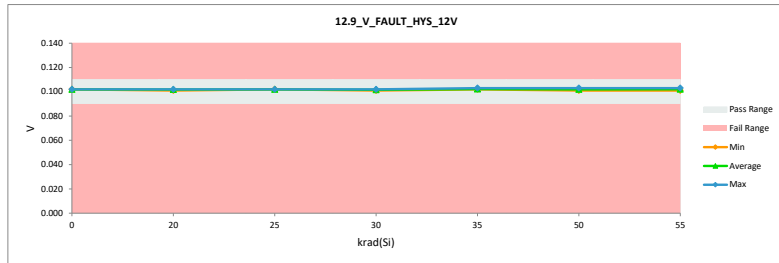
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.9_V_FAULT_HYS_12V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.11
Min Limit	0.09	0.09



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.102	0.102	0.000
0	51	0.102	0.102	0.000
0	52	0.102	0.102	0.000
25	1	0.102	0.102	0.000
25	2	0.102	0.102	0.000
25	3	0.102	0.102	0.000
25	4	0.102	0.102	0.000
25	5	0.102	0.102	0.000
20	6	0.102	0.102	0.000
20	7	0.102	0.102	0.000
20	8	0.102	0.102	0.000
20	9	0.102	0.101	-0.001
20	10	0.102	0.102	0.000
35	11	0.102	0.102	0.000
35	12	0.102	0.103	0.001
35	13	0.102	0.102	0.000
35	14	0.102	0.102	0.000
35	15	0.102	0.102	0.000
30	16	0.102	0.102	0.000
30	17	0.102	0.102	0.000
30	18	0.102	0.101	-0.001
30	19	0.102	0.101	-0.001
30	20	0.102	0.102	0.000
55	21	0.102	0.102	0.000
55	22	0.102	0.102	0.000
55	23	0.102	0.102	0.000
55	24	0.102	0.102	0.000
55	25	0.102	0.102	0.000
55	26	0.102	0.101	-0.001
55	27	0.102	0.101	-0.001
55	28	0.102	0.102	0.000
55	29	0.102	0.102	0.000
55	30	0.102	0.103	0.001
55	31	0.102	0.103	0.001
55	32	0.102	0.102	0.000
55	33	0.102	0.103	0.001
55	34	0.102	0.102	0.000
55	35	0.102	0.102	0.000
55	36	0.102	0.103	0.001
55	37	0.103	0.102	-0.001
55	38	0.102	0.101	-0.001
55	39	0.102	0.102	0.000
55	40	0.103	0.102	-0.001
55	41	0.102	0.102	0.000
55	42	0.102	0.102	0.000
50	43	0.102	0.102	0.000
50	44	0.102	0.102	0.000
50	45	0.102	0.101	-0.001
50	46	0.102	0.102	0.000
50	47	0.102	0.103	0.001
Max		0.103	0.103	0.001
Average		0.102	0.102	0.000
Min		0.102	0.101	-0.001
Std Dev		0.000	0.001	0.001

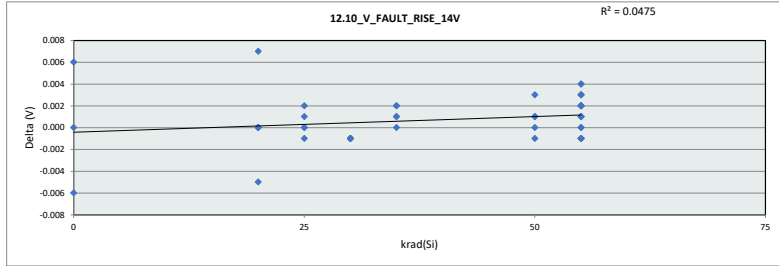
12.9_V_FAULT_HYS_12V							
Test Site							
Tester							
Test Number							
Max Limit	0.11	V					
Min Limit	0.09	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Min	0.102	0.101	0.102	0.101	0.102	0.101	0.101
Average	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Max	0.102	0.102	0.102	0.102	0.103	0.103	0.103
UL	0.110	0.110	0.110	0.110	0.110	0.110	0.110



**HDR TID Report
TPS7H5005-SEP**

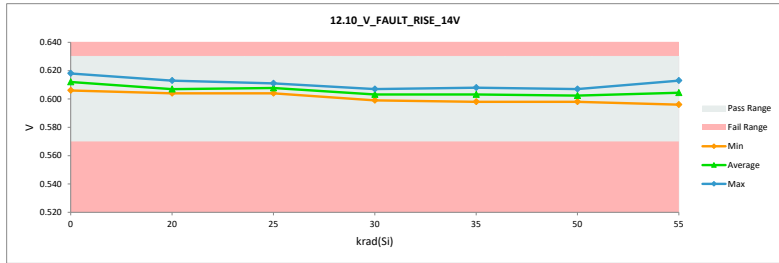
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.10_V_FAULT_RISE_14V	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.63 0.63
Min Limit	0.57 0.57



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.612	0.606	-0.006
0	51	0.612	0.618	0.006
0	52	0.612	0.612	0.000
25	1	0.606	0.608	0.002
25	2	0.609	0.609	0.000
25	3	0.610	0.611	0.001
25	4	0.608	0.607	-0.001
25	5	0.604	0.604	0.000
20	6	0.611	0.606	-0.005
20	7	0.607	0.607	0.000
20	8	0.605	0.605	0.000
20	9	0.606	0.613	0.007
20	10	0.604	0.604	0.000
35	11	0.600	0.601	0.001
35	12	0.608	0.608	0.000
35	13	0.604	0.606	0.002
35	14	0.597	0.598	0.001
35	15	0.601	0.603	0.002
30	16	0.606	0.605	-0.001
30	17	0.600	0.599	-0.001
30	18	0.605	0.604	-0.001
30	19	0.608	0.607	-0.001
30	20	0.602	0.601	-0.001
55	21	0.602	0.601	-0.001
55	22	0.601	0.603	0.002
55	23	0.610	0.611	0.001
55	24	0.603	0.602	-0.001
55	25	0.603	0.606	0.003
55	26	0.603	0.607	0.004
55	27	0.603	0.605	0.002
55	28	0.606	0.606	0.000
55	29	0.605	0.607	0.002
55	30	0.609	0.613	0.004
55	31	0.599	0.600	0.001
55	32	0.607	0.609	0.002
55	33	0.599	0.598	-0.001
55	34	0.598	0.598	0.000
55	35	0.597	0.596	-0.001
55	36	0.605	0.606	0.001
55	37	0.602	0.603	0.001
55	38	0.606	0.609	0.003
55	39	0.604	0.607	0.003
55	40	0.604	0.606	0.002
55	41	0.607	0.609	0.002
55	42	0.597	0.596	-0.001
50	43	0.600	0.603	0.003
50	44	0.607	0.607	0.000
50	45	0.602	0.603	0.001
50	46	0.600	0.601	0.001
50	47	0.599	0.598	-0.001
	Max	0.612	0.618	0.007
	Average	0.604	0.605	0.001
	Min	0.597	0.596	-0.006
	Std Dev	0.004	0.005	0.002

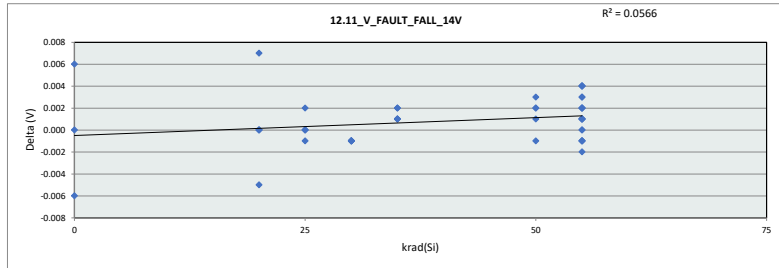
12.10_V_FAULT_RISE_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	0.63	V						
Min Limit	0.57	V						
LL	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570
Min	0.606	0.604	0.604	0.604	0.599	0.598	0.598	0.596
Average	0.612	0.607	0.608	0.603	0.603	0.602	0.602	0.604
Max	0.618	0.613	0.611	0.607	0.608	0.607	0.613	0.613
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630



**HDR TID Report
TPS7H5005-SEP**

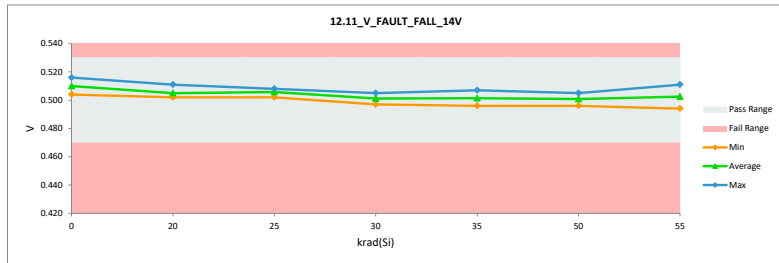
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.11_V_FAULT_FALL_14V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.510	0.504	-0.006
0	51	0.510	0.516	0.006
0	52	0.510	0.510	0.000
25	1	0.504	0.506	0.002
25	2	0.507	0.507	0.000
25	3	0.508	0.508	0.000
25	4	0.507	0.506	-0.001
25	5	0.502	0.502	0.000
20	6	0.509	0.504	-0.005
20	7	0.505	0.505	0.000
20	8	0.503	0.503	0.000
20	9	0.504	0.511	0.007
20	10	0.502	0.502	0.000
35	11	0.498	0.499	0.001
35	12	0.506	0.507	0.001
35	13	0.502	0.504	0.002
35	14	0.495	0.496	0.001
35	15	0.499	0.501	0.002
30	16	0.504	0.503	-0.001
30	17	0.498	0.497	-0.001
30	18	0.503	0.502	-0.001
30	19	0.506	0.505	-0.001
30	20	0.500	0.499	-0.001
55	21	0.500	0.499	-0.001
55	22	0.499	0.500	0.001
55	23	0.508	0.509	0.001
55	24	0.501	0.500	-0.001
55	25	0.501	0.505	0.004
55	26	0.501	0.505	0.004
55	27	0.501	0.504	0.003
55	28	0.504	0.504	0.000
55	29	0.503	0.505	0.002
55	30	0.507	0.511	0.004
55	31	0.497	0.499	0.002
55	32	0.505	0.506	0.001
55	33	0.497	0.495	-0.002
55	34	0.496	0.496	0.000
55	35	0.495	0.494	-0.001
55	36	0.503	0.504	0.001
55	37	0.500	0.501	0.001
55	38	0.504	0.508	0.004
55	39	0.502	0.505	0.003
55	40	0.502	0.504	0.002
55	41	0.506	0.508	0.002
55	42	0.495	0.494	-0.001
50	43	0.498	0.501	0.003
50	44	0.504	0.505	0.001
50	45	0.500	0.502	0.002
50	46	0.498	0.500	0.002
50	47	0.497	0.496	-0.001
Max		0.510	0.516	0.007
Average		0.502	0.503	0.001
Min		0.495	0.494	-0.006
Std Dev		0.004	0.005	0.002

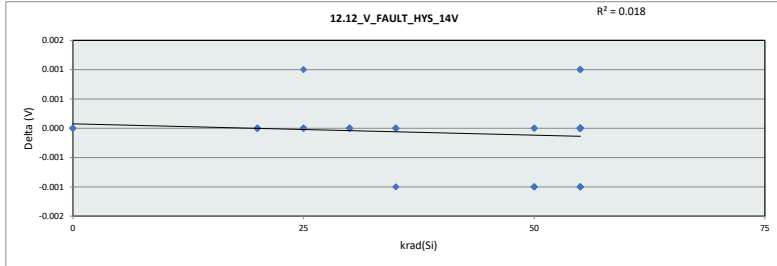
12.11_V_FAULT_FALL_14V							
Test Site							
Tester							
Test Number							
Max Limit	0.53	V					
Min Limit	0.47	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.470	0.470	0.470	0.470	0.470	0.470	0.470
Min	0.504	0.502	0.502	0.497	0.496	0.496	0.494
Average	0.510	0.505	0.506	0.501	0.501	0.501	0.503
Max	0.516	0.511	0.508	0.505	0.507	0.505	0.511
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530



**HDR TID Report
TPS7H5005-SEP**

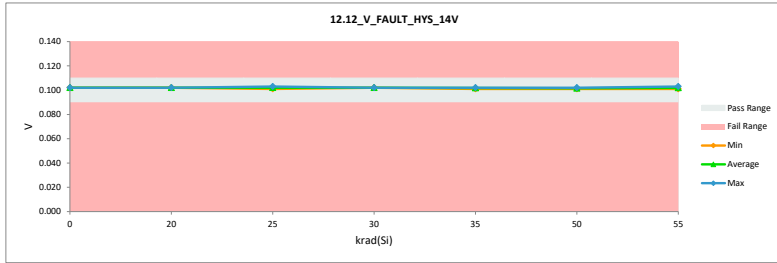
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.12_V_FAULT_HYS_14V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.11
Min Limit	0.09	0.09



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.102	0.102	0.000
0	51	0.102	0.102	0.000
0	52	0.102	0.102	0.000
25	1	0.102	0.102	0.000
25	2	0.102	0.102	0.000
25	3	0.102	0.103	0.001
25	4	0.101	0.101	0.000
25	5	0.102	0.102	0.000
20	6	0.102	0.102	0.000
20	7	0.102	0.102	0.000
20	8	0.102	0.102	0.000
20	9	0.102	0.102	0.000
20	10	0.102	0.102	0.000
35	11	0.102	0.102	0.000
35	12	0.102	0.101	-0.001
35	13	0.102	0.102	0.000
35	14	0.102	0.102	0.000
35	15	0.102	0.102	0.000
30	16	0.102	0.102	0.000
30	17	0.102	0.102	0.000
30	18	0.102	0.102	0.000
30	19	0.102	0.102	0.000
30	20	0.102	0.102	0.000
55	21	0.102	0.102	0.000
55	22	0.102	0.103	0.001
55	23	0.102	0.102	0.000
55	24	0.102	0.102	0.000
55	25	0.102	0.101	-0.001
55	26	0.102	0.102	0.000
55	27	0.102	0.101	-0.001
55	28	0.102	0.102	0.000
55	29	0.102	0.102	0.000
55	30	0.102	0.102	0.000
55	31	0.102	0.101	-0.001
55	32	0.102	0.103	0.001
55	33	0.102	0.103	0.001
55	34	0.102	0.102	0.000
55	35	0.102	0.102	0.000
55	36	0.102	0.102	0.000
55	37	0.102	0.102	0.000
55	38	0.102	0.101	-0.001
55	39	0.102	0.102	0.000
55	40	0.102	0.102	0.000
55	41	0.101	0.101	0.000
55	42	0.102	0.102	0.000
50	43	0.102	0.102	0.000
50	44	0.103	0.102	-0.001
50	45	0.102	0.101	-0.001
50	46	0.102	0.101	-0.001
50	47	0.102	0.102	0.000
Max		0.103	0.103	0.001
Average		0.102	0.102	0.000
Min		0.101	0.101	-0.001
Std Dev		0.000	0.001	0.000

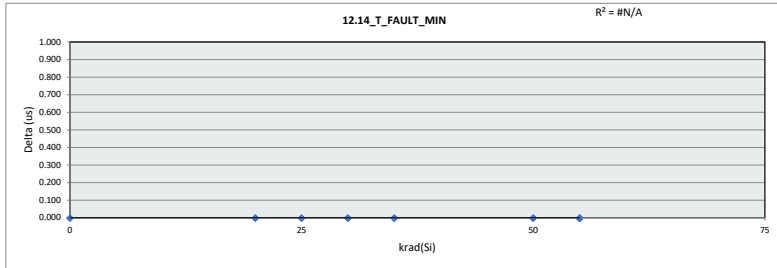
12.12_V_FAULT_HYS_14V							
Test Site							
Tester							
Test Number							
Max Limit	0.11	V					
Min Limit	0.09	V					
krad(Si)	0	20	25	30	35	50	55
LL	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Min	0.102	0.102	0.101	0.102	0.101	0.101	0.101
Average	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Max	0.102	0.102	0.103	0.102	0.102	0.102	0.103
UL	0.110	0.110	0.110	0.110	0.110	0.110	0.110



**HDR TID Report
TPS7H5005-SEP**

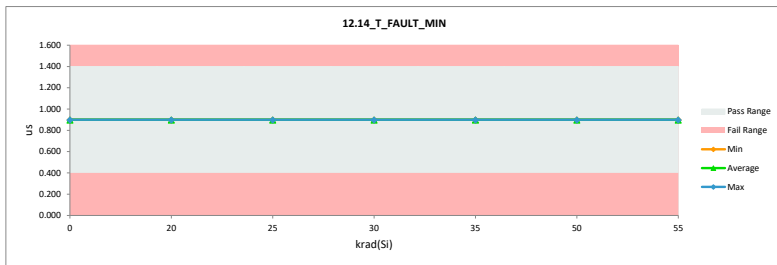
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.14_T_FAULT_MIN	
Test Site	
Tester	
Test Number	
Unit	us us
Max Limit	1.4 1.4
Min Limit	0.4 0.4



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	0.900	0.900	0.000
0	51	0.900	0.900	0.000
0	52	0.900	0.900	0.000
25	1	0.900	0.900	0.000
25	2	0.900	0.900	0.000
25	3	0.900	0.900	0.000
25	4	0.900	0.900	0.000
25	5	0.900	0.900	0.000
20	6	0.900	0.900	0.000
20	7	0.900	0.900	0.000
20	8	0.900	0.900	0.000
20	9	0.900	0.900	0.000
20	10	0.900	0.900	0.000
35	11	0.900	0.900	0.000
35	12	0.900	0.900	0.000
35	13	0.900	0.900	0.000
35	14	0.900	0.900	0.000
35	15	0.900	0.900	0.000
30	16	0.900	0.900	0.000
30	17	0.900	0.900	0.000
30	18	0.900	0.900	0.000
30	19	0.900	0.900	0.000
30	20	0.900	0.900	0.000
55	21	0.900	0.900	0.000
55	22	0.900	0.900	0.000
55	23	0.900	0.900	0.000
55	24	0.900	0.900	0.000
55	25	0.900	0.900	0.000
55	26	0.900	0.900	0.000
55	27	0.900	0.900	0.000
55	28	0.900	0.900	0.000
55	29	0.900	0.900	0.000
55	30	0.900	0.900	0.000
55	31	0.900	0.900	0.000
55	32	0.900	0.900	0.000
55	33	0.900	0.900	0.000
55	34	0.900	0.900	0.000
55	35	0.900	0.900	0.000
55	36	0.900	0.900	0.000
55	37	0.900	0.900	0.000
55	38	0.900	0.900	0.000
55	39	0.900	0.900	0.000
55	40	0.900	0.900	0.000
55	41	0.900	0.900	0.000
55	42	0.900	0.900	0.000
50	43	0.900	0.900	0.000
50	44	0.900	0.900	0.000
50	45	0.900	0.900	0.000
50	46	0.900	0.900	0.000
50	47	0.900	0.900	0.000
	Max	0.900	0.900	0.000
	Average	0.900	0.900	0.000
	Min	0.900	0.900	0.000
	Std Dev	0.000	0.000	0.000

12.14_T_FAULT_MIN		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	1.4 us							
Min Limit	0.4 us							
LL	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400
Min	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
Average	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
Max	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
UL	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400



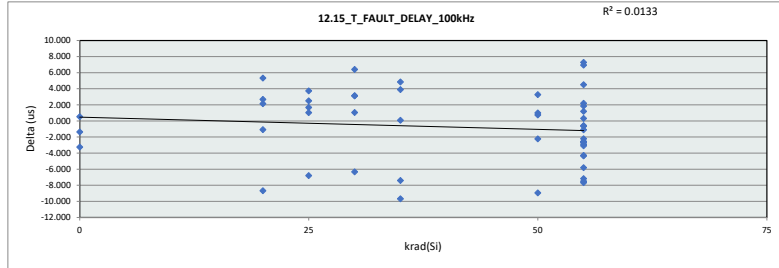
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.15_T_FAULT_DELAY_100kHz

Test Site	
Tester	
Test Number	
Unit	us us
Max Limit	169 169
Min Limit	140 140

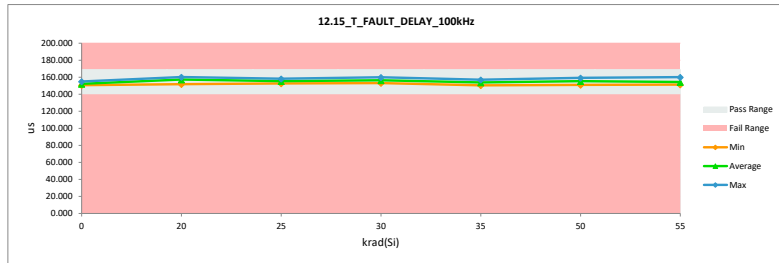
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	156.358	155.031	-1.327
0	51	150.648	151.217	0.569
0	52	153.858	150.648	-3.210
25	1	159.460	152.697	-6.763
25	2	152.331	156.110	3.779
25	3	151.206	152.926	1.720
25	4	157.259	158.339	1.080
25	5	154.953	157.496	2.543
20	6	153.477	158.846	5.369
20	7	158.102	160.277	2.175
20	8	153.723	156.449	2.726
20	9	160.335	159.292	-1.043
20	10	160.449	151.805	-8.644
35	11	152.669	156.612	3.943
35	12	160.145	150.509	-9.636
35	13	152.222	157.116	4.894
35	14	160.440	153.082	-7.358
35	15	152.505	152.619	0.114
30	16	153.957	155.047	1.090
30	17	153.638	160.083	6.445
30	18	154.505	157.678	3.173
30	19	152.834	155.992	3.158
30	20	159.459	153.171	-6.288
55	21	154.156	151.992	-2.164
55	22	158.577	155.524	-3.053
55	23	152.787	152.245	-0.542
55	24	154.869	154.256	-0.613
55	25	155.489	157.725	2.236
55	26	152.599	153.840	1.241
55	27	154.634	152.106	-2.528
55	28	159.823	152.697	-7.126
55	29	156.917	154.302	-2.615
55	30	154.013	152.945	-1.068
55	31	154.314	151.465	-2.849
55	32	159.820	154.044	-5.776
55	33	157.863	153.556	-4.307
55	34	159.691	152.061	-7.630
55	35	152.519	157.068	4.549
55	36	157.672	153.423	-4.249
55	37	157.319	154.775	-2.544
55	38	152.808	160.133	7.325
55	39	155.724	156.082	0.358
55	40	158.756	151.298	-7.458
55	41	152.030	159.018	6.988
55	42	153.547	155.437	1.890
50	43	157.615	155.430	-2.185
50	44	153.153	153.945	0.792
50	45	158.364	159.396	1.032
50	46	159.936	151.029	-8.907
50	47	154.163	157.474	3.311
Max	160.449	160.277	7.325	
Average	155.674	154.926	-0.748	
Min	150.648	150.509	-9.636	
Std Dev	2.938	2.800	4.447	



12.15_T_FAULT_DELAY_100kHz

Test Site	
Tester	
Test Number	
Max Limit	169 us
Min Limit	140 us

krad(Si)	0	20	25	30	35	50	55
LL	140.000	140.000	140.000	140.000	140.000	140.000	140.000
Min	150.648	151.805	152.697	153.171	150.509	151.029	151.298
Average	152.299	157.334	155.514	156.394	153.988	155.455	154.363
Max	155.031	160.277	158.339	160.083	157.116	159.396	160.133
UL	169.000	169.000	169.000	169.000	169.000	169.000	169.000



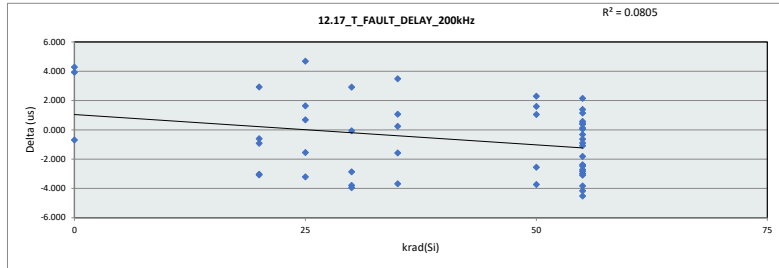
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.17_T_FAULT_DELAY_200kHz

Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	86	86
Min Limit	66	66

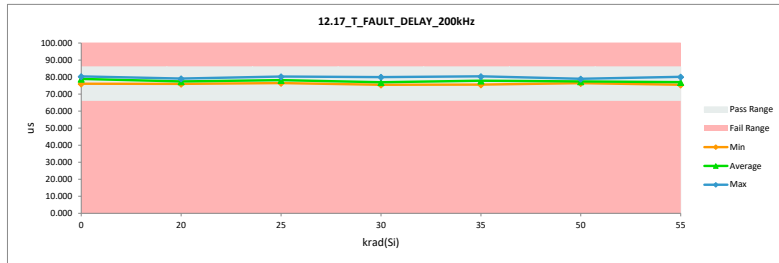
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	76.308	80.261	3.953
0	51	76.118	80.425	4.307
0	52	76.795	76.118	-0.677
25	1	76.884	77.590	0.706
25	2	80.411	78.882	-1.529
25	3	76.241	77.900	1.659
25	4	79.678	76.492	-3.186
25	5	75.590	80.293	4.703
20	6	76.202	79.144	2.942
20	7	78.064	77.166	-0.898
20	8	78.009	77.425	-0.584
20	9	80.428	77.411	-3.017
20	10	79.054	75.997	-3.057
35	11	79.344	80.430	1.086
35	12	75.666	75.931	0.265
35	13	76.949	80.452	3.503
35	14	79.231	75.568	-3.663
35	15	78.708	77.154	-1.554
30	16	76.516	76.475	-0.041
30	17	80.476	76.546	-3.930
30	18	80.087	76.311	-3.776
30	19	77.093	80.033	2.940
30	20	78.347	75.497	-2.850
55	21	80.226	76.418	-3.808
55	22	76.834	75.956	-0.878
55	23	80.419	77.347	-3.072
55	24	75.868	77.038	1.170
55	25	79.780	80.186	0.406
55	26	78.902	75.940	-2.962
55	27	79.926	78.862	-1.064
55	28	75.862	76.459	0.597
55	29	77.961	76.168	-1.793
55	30	76.592	76.669	0.077
55	31	77.624	79.034	1.410
55	32	77.136	77.608	0.472
55	33	77.477	79.643	2.166
55	34	80.313	75.819	-4.494
55	35	75.793	75.935	0.142
55	36	78.681	78.067	-0.614
55	37	76.821	76.518	-0.303
55	38	79.666	75.525	-4.141
55	39	77.967	75.603	-2.364
55	40	78.508	75.686	-2.822
55	41	79.776	77.319	-2.457
55	42	80.004	77.308	-2.696
50	43	80.167	76.451	-3.716
50	44	75.962	77.027	1.065
50	45	75.924	78.236	2.312
50	46	77.390	79.012	1.622
50	47	79.089	76.554	-2.535
	Max	80.476	80.452	4.703
	Average	78.057	77.438	-0.620
	Min	75.590	75.497	-4.494
	Std Dev	1.628	1.562	2.466



12.17_T_FAULT_DELAY_200kHz

Test Site		
Tester		
Test Number		
Max Limit	86	us
Min Limit	66	us

krad(Si)	0	20	25	30	35	50	55
LL	66.000	66.000	66.000	66.000	66.000	66.000	66.000
Min	76.118	75.997	76.492	75.497	75.568	76.451	75.525
Average	78.935	77.429	78.231	76.972	77.907	77.456	77.050
Max	80.425	79.144	80.293	80.033	80.452	79.012	80.186
UL	86.000	86.000	86.000	86.000	86.000	86.000	86.000

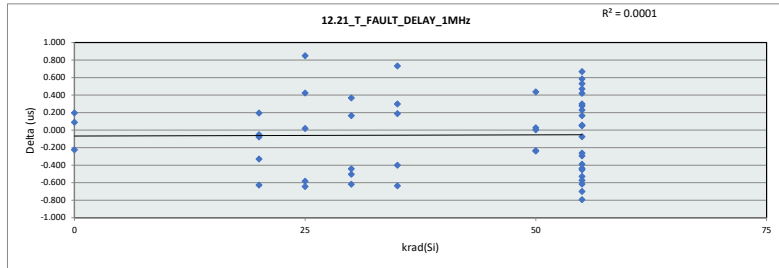


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.21_T_FAULT_DELAY_1MHz

Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	21	21
Min Limit	14	14

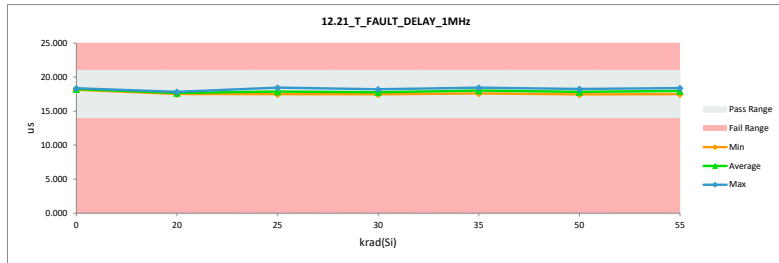


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	18.135	18.228	0.093
0	51	18.381	18.160	-0.221
0	52	18.181	18.381	0.200
25	1	17.770	17.792	0.022
25	2	17.615	18.467	0.852
25	3	18.084	17.504	-0.580
25	4	18.242	17.602	-0.640
25	5	17.708	18.134	0.426
20	6	17.651	17.849	0.198
20	7	17.852	17.526	-0.326
20	8	18.382	17.758	-0.624
20	9	17.749	17.674	-0.075
20	10	17.663	17.614	-0.049
35	11	17.627	18.363	0.736
35	12	18.022	17.624	-0.398
35	13	18.155	18.457	0.302
35	14	18.433	17.801	-0.632
35	15	17.707	17.898	0.191
30	16	17.858	18.228	0.370
30	17	18.081	17.643	-0.438
30	18	18.284	17.783	-0.501
30	19	18.102	17.488	-0.614
30	20	17.578	17.747	0.169
55	21	18.204	17.679	-0.525
55	22	17.742	18.216	0.474
55	23	18.271	18.325	0.054
55	24	17.988	17.539	-0.449
55	25	18.275	18.335	0.060
55	26	17.958	17.573	-0.385
55	27	18.294	17.598	-0.696
55	28	17.861	18.394	0.533
55	29	18.382	18.123	-0.259
55	30	18.196	18.364	0.168
55	31	17.598	18.269	0.671
55	32	17.704	18.127	0.423
55	33	17.750	18.051	0.301
55	34	17.988	17.697	-0.291
55	35	18.347	17.914	-0.433
55	36	18.155	18.083	-0.072
55	37	18.269	17.656	-0.613
55	38	17.661	17.942	0.281
55	39	18.085	17.515	-0.570
55	40	17.813	18.400	0.587
55	41	18.423	17.633	-0.790
55	42	17.606	17.838	0.232
50	43	17.707	17.472	-0.235
50	44	17.817	17.848	0.031
50	45	17.696	17.703	0.007
50	46	18.197	17.964	-0.233
50	47	17.834	18.274	0.440
	Max	18.433	18.467	0.852
	Average	17.982	17.925	-0.057
	Min	17.578	17.472	-0.790
	Std Dev	0.270	0.314	0.433

12.21_T_FAULT_DELAY_1MHz

Test Site		
Tester		
Test Number		
Max Limit	21	us
Min Limit	14	us

krad(Si)	0	20	25	30	35	50	55
LL	14.000	14.000	14.000	14.000	14.000	14.000	14.000
Min	18.160	17.526	17.504	17.488	17.624	17.472	17.515
Average	18.256	17.684	17.900	17.778	18.029	17.852	17.967
Max	18.381	17.849	18.467	18.228	18.457	18.274	18.400
UL	21.000	21.000	21.000	21.000	21.000	21.000	21.000

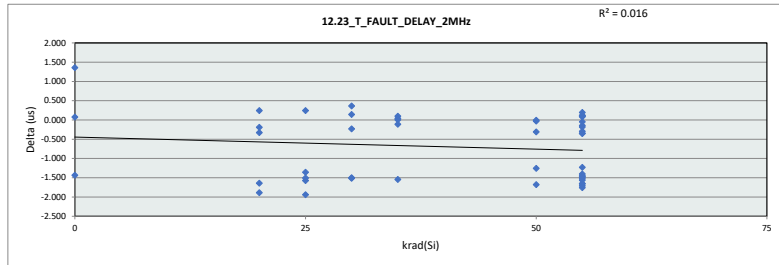


**HDR TID Report
TPS7H5005-SEP**

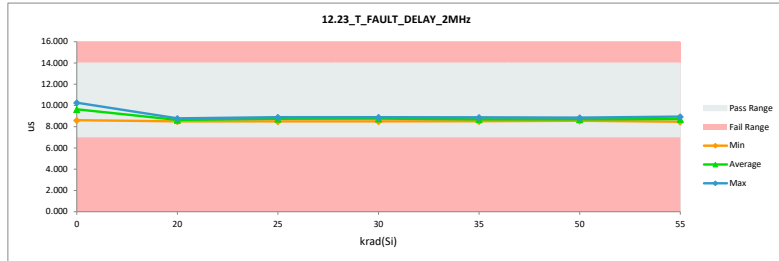
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

12.23_T_FAULT_DELAY_2MHz	
Test Site	
Tester	
Test Number	
Unit	us us
Max Limit	14 14
Min Limit	7 7

krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	10.181	10.263	0.082
0	51	10.044	8.614	-1.430
0	52	8.678	10.044	1.366
25	1	10.397	8.897	-1.500
25	2	10.435	8.503	-1.932
25	3	10.163	8.814	-1.349
25	4	10.376	8.807	-1.569
25	5	8.480	8.732	0.252
20	6	10.290	8.656	-1.634
20	7	8.851	8.531	-0.320
20	8	8.913	8.730	-0.183
20	9	10.387	8.504	-1.883
20	10	8.537	8.789	0.252
35	11	10.058	8.520	-1.538
35	12	8.694	8.589	-0.105
35	13	8.702	8.806	0.104
35	14	8.650	8.696	0.046
35	15	8.822	8.883	0.061
30	16	9.992	8.500	-1.492
30	17	8.534	8.905	0.371
30	18	8.895	8.669	-0.226
30	19	8.748	8.898	0.150
30	20	10.385	8.878	-1.507
55	21	9.982	8.759	-1.223
55	22	8.784	8.896	0.112
55	23	10.072	8.610	-1.462
55	24	10.167	8.648	-1.519
55	25	8.855	8.510	-0.345
55	26	10.364	8.717	-1.647
55	27	10.399	8.649	-1.750
55	28	10.434	8.878	-1.556
55	29	8.901	8.860	-0.041
55	30	8.526	8.652	0.126
55	31	10.331	8.630	-1.701
55	32	8.927	8.639	-0.288
55	33	10.407	8.758	-1.649
55	34	8.863	8.523	-0.340
55	35	8.728	8.831	0.103
55	36	8.700	8.902	0.202
55	37	10.404	8.923	-1.481
55	38	10.354	8.957	-1.397
55	39	8.646	8.471	-0.175
55	40	8.729	8.819	0.090
55	41	10.125	8.684	-1.441
55	42	8.771	8.634	-0.137
50	43	8.659	8.659	0.000
50	44	8.868	8.566	-0.302
50	45	10.368	8.696	-1.672
50	46	8.709	8.687	-0.022
50	47	10.107	8.857	-1.250
Max		10.435	10.263	1.366
Average		9.469	8.773	-0.696
Min		8.480	8.471	-1.932
Std Dev		0.780	0.316	0.838



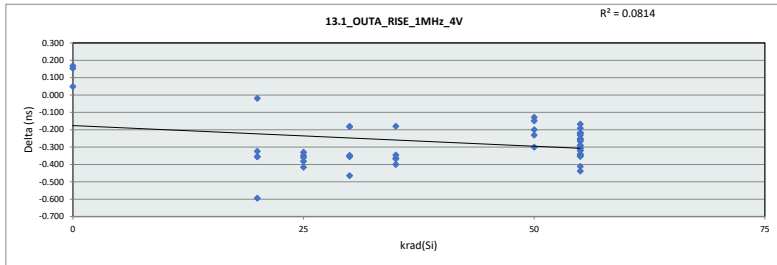
12.23_T_FAULT_DELAY_2MHz		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	14 us							
Min Limit	7 us							
LL		7.000	7.000	7.000	7.000	7.000	7.000	7.000
Min		8.614	8.504	8.503	8.500	8.520	8.566	8.471
Average		9.640	8.642	8.751	8.770	8.699	8.693	8.725
Max		10.263	8.789	8.897	8.905	8.883	8.857	8.957
UL		14.000	14.000	14.000	14.000	14.000	14.000	14.000



**HDR TID Report
TPS7H5005-SEP**

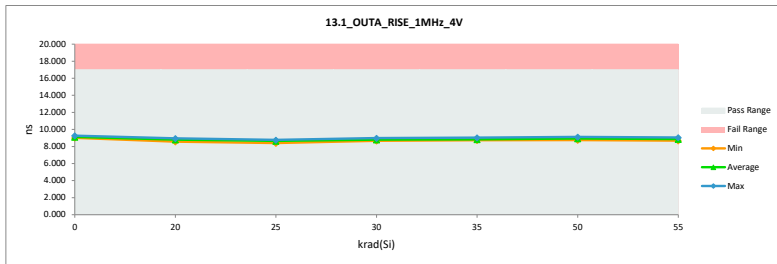
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.1_OUTA_RISE_1MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.966	9.016	0.050
0	51	9.100	9.270	0.170
0	52	8.945	9.100	0.155
25	1	8.753	8.406	-0.347
25	2	8.979	8.565	-0.414
25	3	9.134	8.776	-0.358
25	4	9.086	8.758	-0.328
25	5	9.156	8.776	-0.380
20	6	9.153	8.560	-0.593
20	7	9.248	8.894	-0.354
20	8	9.094	8.740	-0.354
20	9	8.901	8.883	-0.018
20	10	9.286	8.963	-0.323
35	11	9.127	8.761	-0.366
35	12	9.096	8.734	-0.362
35	13	9.099	8.754	-0.345
35	14	9.216	9.037	-0.179
35	15	9.277	8.878	-0.399
30	16	9.162	8.982	-0.180
30	17	9.059	8.879	-0.180
30	18	9.116	8.762	-0.354
30	19	9.187	8.724	-0.463
30	20	9.019	8.673	-0.346
55	21	9.129	8.839	-0.290
55	22	9.122	8.780	-0.342
55	23	9.152	8.887	-0.265
55	24	9.144	8.794	-0.350
55	25	9.093	8.876	-0.217
55	26	9.067	8.813	-0.254
55	27	9.150	8.798	-0.352
55	28	9.056	8.890	-0.166
55	29	9.243	8.833	-0.410
55	30	9.222	8.916	-0.306
55	31	9.117	8.680	-0.437
55	32	9.317	8.978	-0.339
55	33	9.278	9.048	-0.230
55	34	9.100	8.844	-0.256
55	35	9.148	8.846	-0.302
55	36	9.272	9.052	-0.220
55	37	9.015	8.697	-0.318
55	38	9.178	8.861	-0.317
55	39	9.182	8.894	-0.288
55	40	9.144	8.926	-0.218
55	41	9.125	8.874	-0.251
55	42	9.198	9.008	-0.190
50	43	9.228	9.029	-0.199
50	44	9.271	9.124	-0.147
50	45	8.986	8.757	-0.229
50	46	9.152	9.025	-0.127
50	47	9.071	8.772	-0.299
	Max	9.317	9.270	0.170
	Average	9.126	8.855	-0.272
	Min	8.753	8.406	-0.593
	Std Dev	0.107	0.155	0.141

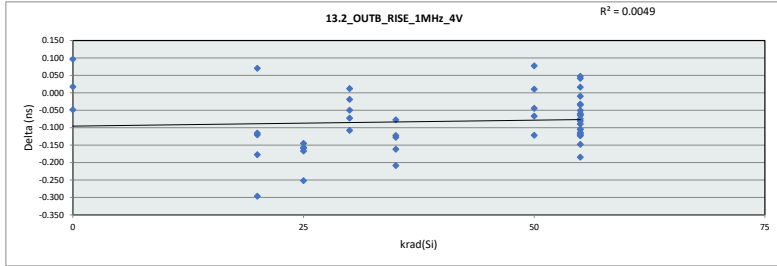
13.1_OUTA_RISE_1MHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	0	ns						
krad(Si)	0	20	25	30	35	50	55	
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.016	8.560	8.406	8.673	8.734	8.757	8.680	
Average	9.129	8.808	8.656	8.804	8.833	8.941	8.870	
Max	9.270	8.963	8.776	8.982	9.037	9.124	9.052	
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000



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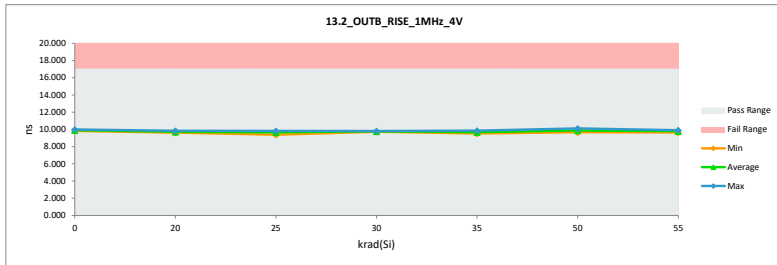
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.2_OUTB_RISE_1MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.806	9.824	0.018
0	51	9.893	9.990	0.097
0	52	9.941	9.893	-0.048
25	1	9.690	9.546	-0.144
25	2	9.633	9.382	-0.251
25	3	9.988	9.832	-0.156
25	4	9.951	9.793	-0.158
25	5	9.872	9.706	-0.166
20	6	9.926	9.630	-0.296
20	7	9.777	9.657	-0.120
20	8	9.835	9.658	-0.177
20	9	9.728	9.799	0.071
20	10	9.952	9.837	-0.115
35	11	9.715	9.593	-0.122
35	12	9.688	9.527	-0.161
35	13	9.808	9.600	-0.208
35	14	9.901	9.774	-0.127
35	15	9.941	9.864	-0.077
30	16	9.778	9.729	-0.049
30	17	9.782	9.795	0.013
30	18	9.884	9.812	-0.072
30	19	9.844	9.737	-0.107
30	20	9.791	9.773	-0.018
55	21	9.787	9.673	-0.114
55	22	9.846	9.662	-0.184
55	23	9.906	9.802	-0.104
55	24	9.873	9.793	-0.080
55	25	9.906	9.847	-0.059
55	26	9.796	9.813	0.017
55	27	9.859	9.850	-0.009
55	28	9.750	9.700	-0.050
55	29	9.852	9.894	0.042
55	30	9.866	9.744	-0.122
55	31	9.750	9.646	-0.104
55	32	9.983	9.865	-0.118
55	33	9.960	9.886	-0.074
55	34	9.813	9.752	-0.061
55	35	9.859	9.795	-0.064
55	36	9.953	9.831	-0.122
55	37	9.800	9.653	-0.147
55	38	9.860	9.746	-0.114
55	39	9.947	9.913	-0.034
55	40	9.875	9.843	-0.032
55	41	9.849	9.897	0.048
55	42	9.931	9.842	-0.089
50	43	9.863	9.874	0.011
50	44	10.038	10.116	0.078
50	45	9.885	9.841	-0.044
50	46	9.909	9.843	-0.066
50	47	9.790	9.669	-0.121
	Max	10.038	10.116	0.097
	Average	9.853	9.771	-0.082
	Min	9.633	9.382	-0.296
	Std Dev	0.086	0.126	0.082

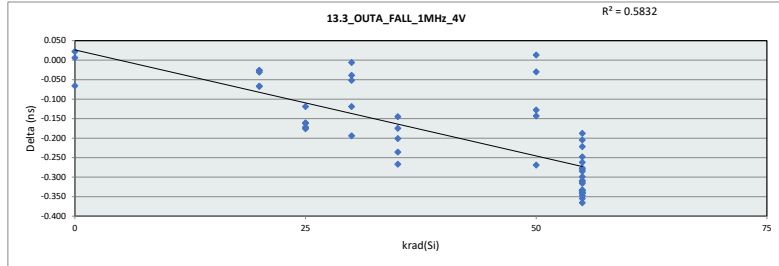
13.2_OUTB_RISE_1MHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	0	ns						
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.824	9.630	9.382	9.729	9.527	9.669	9.646	9.646
Average	9.902	9.716	9.652	9.769	9.672	9.869	9.793	9.793
Max	9.990	9.837	9.832	9.812	9.864	10.116	9.913	9.913
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000



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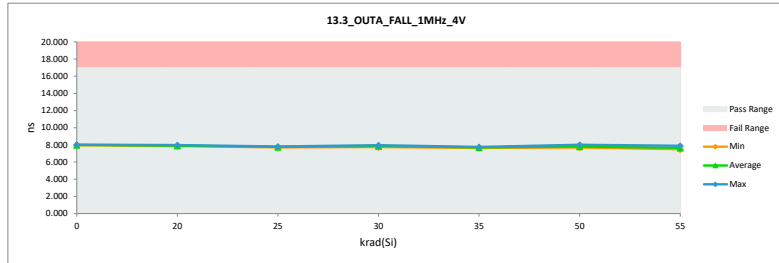
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.3_OUTA_FALL_1MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.004	8.027	0.023
0	51	8.025	7.960	-0.065
0	52	8.018	8.025	0.007
25	1	7.929	7.811	-0.118
25	2	7.980	7.819	-0.161
25	3	7.884	7.713	-0.171
25	4	7.876	7.716	-0.160
25	5	7.961	7.786	-0.175
20	6	7.938	7.872	-0.066
20	7	8.030	7.964	-0.066
20	8	8.014	7.988	-0.026
20	9	7.903	7.873	-0.030
20	10	7.884	7.859	-0.025
35	11	7.871	7.671	-0.200
35	12	7.955	7.720	-0.235
35	13	7.919	7.653	-0.266
35	14	7.912	7.738	-0.174
35	15	7.907	7.763	-0.144
30	16	7.970	7.965	-0.005
30	17	7.949	7.898	-0.051
30	18	7.974	7.936	-0.038
30	19	7.944	7.751	-0.193
30	20	7.926	7.808	-0.118
55	21	7.999	7.667	-0.332
55	22	7.965	7.631	-0.334
55	23	8.047	7.732	-0.315
55	24	7.963	7.665	-0.298
55	25	7.901	7.697	-0.204
55	26	8.036	7.849	-0.187
55	27	8.156	7.895	-0.261
55	28	8.000	7.689	-0.311
55	29	7.876	7.655	-0.221
55	30	7.961	7.714	-0.247
55	31	7.891	7.551	-0.340
55	32	7.956	7.648	-0.308
55	33	7.873	7.597	-0.276
55	34	7.935	7.570	-0.365
55	35	7.867	7.528	-0.339
55	36	7.848	7.502	-0.346
55	37	8.195	7.856	-0.339
55	38	7.974	7.695	-0.279
55	39	8.071	7.737	-0.334
55	40	7.872	7.518	-0.354
55	41	7.821	7.537	-0.284
55	42	7.884	7.551	-0.333
50	43	7.848	7.721	-0.127
50	44	7.840	7.698	-0.142
50	45	7.908	7.922	0.014
50	46	8.046	8.017	-0.029
50	47	8.005	7.737	-0.268
	Max	8.195	8.027	0.023
	Average	7.950	7.758	-0.192
	Min	7.821	7.502	-0.365
	Std Dev	0.077	0.145	0.120

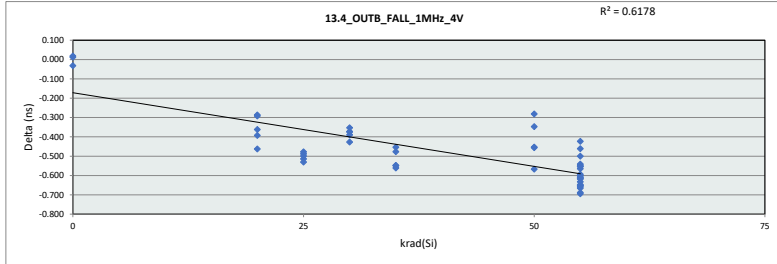
13.3_OUTA_FALL_1MHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	0	ns						
krad(Si)	0	20	25	30	35	50	55	
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.960	7.859	7.713	7.751	7.653	7.698	7.502	
Average	8.004	7.911	7.769	7.872	7.709	7.819	7.658	
Max	8.027	7.988	7.819	7.965	7.763	8.017	7.895	
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000



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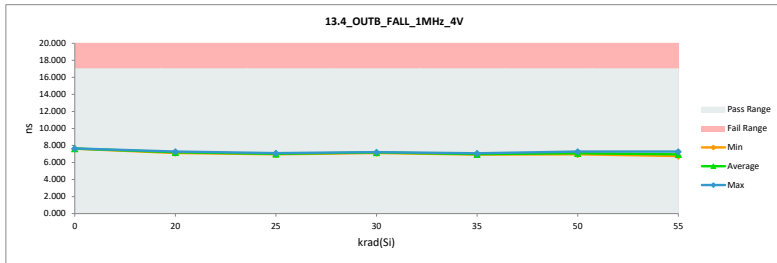
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.4_OUTB_FALL_1MHz_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.622	7.636	0.014
0	51	7.655	7.625	-0.030
0	52	7.635	7.655	0.020
25	1	7.512	7.000	-0.512
25	2	7.593	7.096	-0.497
25	3	7.488	7.012	-0.476
25	4	7.502	6.973	-0.529
25	5	7.533	7.047	-0.486
20	6	7.577	7.116	-0.461
20	7	7.642	7.251	-0.391
20	8	7.646	7.286	-0.360
20	9	7.507	7.222	-0.285
20	10	7.419	7.129	-0.290
35	11	7.423	6.948	-0.475
35	12	7.551	6.992	-0.559
35	13	7.489	6.942	-0.547
35	14	7.526	6.980	-0.546
35	15	7.535	7.083	-0.452
30	16	7.569	7.218	-0.351
30	17	7.558	7.187	-0.371
30	18	7.557	7.169	-0.388
30	19	7.548	7.123	-0.425
30	20	7.579	7.207	-0.372
55	21	7.629	7.037	-0.592
55	22	7.552	6.865	-0.687
55	23	7.627	6.975	-0.652
55	24	7.545	6.946	-0.599
55	25	7.541	6.990	-0.551
55	26	7.689	7.191	-0.498
55	27	7.741	7.282	-0.459
55	28	7.568	7.029	-0.539
55	29	7.516	7.095	-0.421
55	30	7.544	6.992	-0.552
55	31	7.381	6.766	-0.615
55	32	7.546	6.915	-0.631
55	33	7.501	6.855	-0.646
55	34	7.517	6.868	-0.649
55	35	7.445	6.839	-0.606
55	36	7.428	6.819	-0.609
55	37	7.731	7.067	-0.664
55	38	7.596	7.051	-0.545
55	39	7.687	7.072	-0.615
55	40	7.422	6.765	-0.657
55	41	7.450	6.887	-0.563
55	42	7.493	6.800	-0.693
50	43	7.432	6.978	-0.454
50	44	7.416	6.965	-0.451
50	45	7.483	7.203	-0.280
50	46	7.635	7.290	-0.345
50	47	7.546	6.981	-0.565
	Max	7.741	7.655	0.020
	Average	7.547	7.068	-0.478
	Min	7.381	6.765	-0.693
	Std Dev	0.084	0.200	0.164

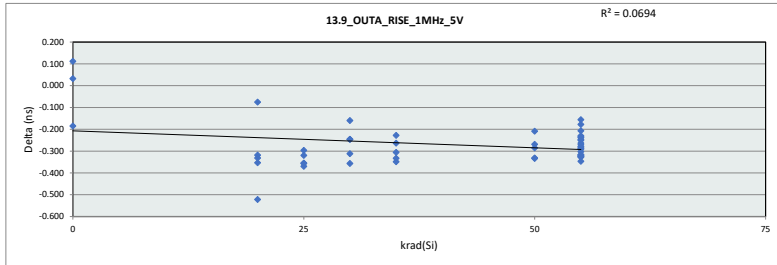
13.4_OUTB_FALL_1MHz_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	0	ns						
krad(Si)		0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.625	7.116	6.973	7.123	6.942	6.965	6.965	6.765
Average	7.639	7.201	7.026	7.181	6.989	7.083	7.290	7.282
Max	7.655	7.286	7.096	7.218	7.083	7.218	7.290	7.282
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000



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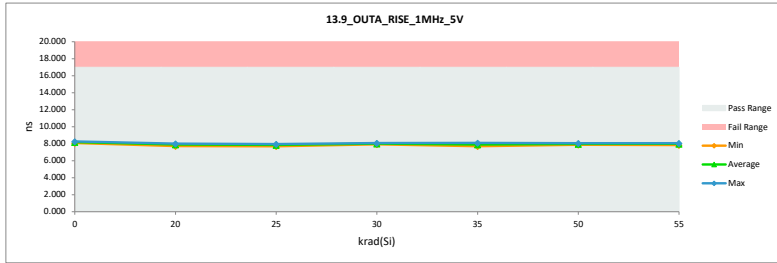
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.9_OUTA_RISE_1MHz_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.191	8.225	0.034
0	51	8.269	8.086	-0.183
0	52	8.156	8.269	0.113
25	1	8.017	7.699	-0.318
25	2	8.209	7.841	-0.368
25	3	8.241	7.888	-0.353
25	4	8.255	7.960	-0.295
25	5	8.263	7.908	-0.355
20	6	8.251	7.731	-0.520
20	7	8.212	7.882	-0.330
20	8	8.302	7.950	-0.352
20	9	8.092	8.018	-0.074
20	10	8.291	7.974	-0.317
35	11	8.218	7.914	-0.304
35	12	8.282	7.935	-0.347
35	13	8.241	7.910	-0.331
35	14	8.330	8.104	-0.226
35	15	7.974	7.712	-0.262
30	16	8.294	8.049	-0.245
30	17	8.236	8.078	-0.158
30	18	8.318	7.963	-0.355
30	19	8.318	8.008	-0.310
30	20	8.168	7.924	-0.244
55	21	8.279	8.046	-0.233
55	22	8.318	7.992	-0.326
55	23	8.343	7.998	-0.345
55	24	8.290	7.975	-0.315
55	25	8.264	7.946	-0.318
55	26	8.281	7.957	-0.324
55	27	8.227	8.051	-0.176
55	28	8.287	8.018	-0.269
55	29	8.181	7.865	-0.316
55	30	8.086	7.850	-0.236
55	31	8.280	7.993	-0.287
55	32	8.217	8.063	-0.154
55	33	8.264	8.059	-0.205
55	34	8.278	8.029	-0.249
55	35	8.258	8.013	-0.245
55	36	8.203	7.975	-0.228
55	37	8.208	7.919	-0.289
55	38	8.269	7.946	-0.323
55	39	8.314	8.035	-0.279
55	40	8.279	7.978	-0.301
55	41	8.284	8.005	-0.279
55	42	8.317	8.055	-0.262
50	43	8.258	7.974	-0.284
50	44	8.274	8.067	-0.207
50	45	8.199	7.869	-0.330
50	46	8.295	8.028	-0.267
50	47	8.271	7.939	-0.332
	Max	8.343	8.269	0.113
	Average	8.243	7.973	-0.270
	Min	7.974	7.699	-0.520
	Std Dev	0.075	0.106	0.100

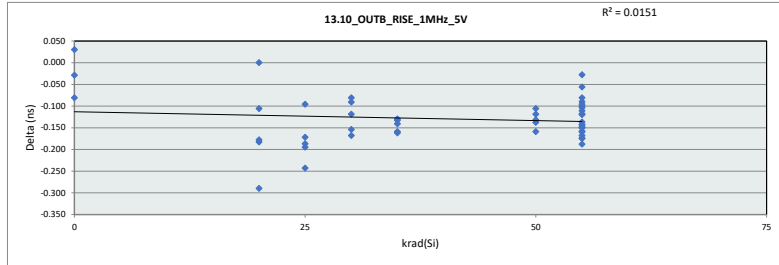
13.9_OUTA_RISE_1MHz_5V							
Test Site							
Tester							
Test Number							
Max Limit	17	ns					
Min Limit	0	ns					
krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.086	7.731	7.699	7.924	7.712	7.869	7.850
Average	8.193	7.911	7.859	8.004	7.915	7.975	7.989
Max	8.269	8.018	7.960	8.078	8.104	8.067	8.063
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



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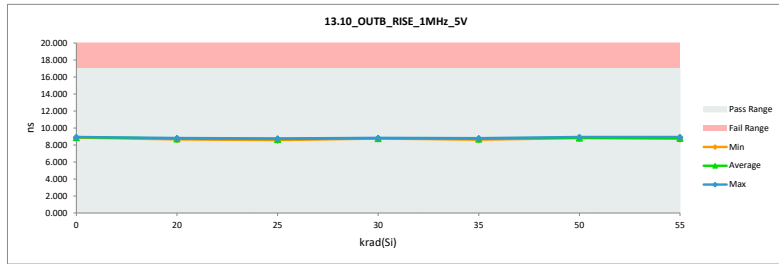
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.10_OUTB_RISE_1MHz_5V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	17
Min Limit	0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	8.903	8.934	0.031
0	51	8.948	8.868	-0.080
0	52	8.976	8.948	-0.028
25	1	8.785	8.690	-0.095
25	2	8.814	8.572	-0.242
25	3	8.944	8.773	-0.171
25	4	8.963	8.769	-0.194
25	5	8.936	8.750	-0.186
20	6	8.939	8.650	-0.289
20	7	8.900	8.795	-0.105
20	8	8.944	8.767	-0.177
20	9	8.821	8.822	0.001
20	10	8.964	8.782	-0.182
35	11	8.863	8.734	-0.129
35	12	8.790	8.629	-0.161
35	13	8.913	8.773	-0.140
35	14	8.969	8.811	-0.158
35	15	8.902	8.770	-0.132
30	16	8.869	8.779	-0.090
30	17	8.927	8.847	-0.080
30	18	8.963	8.810	-0.153
30	19	8.947	8.780	-0.167
30	20	8.871	8.753	-0.118
55	21	8.914	8.819	-0.095
55	22	8.912	8.725	-0.187
55	23	8.947	8.798	-0.149
55	24	8.957	8.815	-0.142
55	25	8.917	8.862	-0.055
55	26	8.909	8.736	-0.173
55	27	8.965	8.866	-0.099
55	28	8.881	8.734	-0.147
55	29	8.945	8.865	-0.080
55	30	8.941	8.792	-0.149
55	31	8.904	8.815	-0.089
55	32	9.002	8.885	-0.117
55	33	8.983	8.847	-0.136
55	34	8.930	8.773	-0.157
55	35	8.987	8.884	-0.103
55	36	9.008	8.866	-0.142
55	37	8.904	8.737	-0.167
55	38	8.979	8.805	-0.174
55	39	8.996	8.886	-0.110
55	40	8.980	8.861	-0.119
55	41	8.962	8.935	-0.027
55	42	8.981	8.822	-0.159
50	43	8.962	8.844	-0.118
50	44	9.042	8.937	-0.105
50	45	8.994	8.857	-0.137
50	46	9.017	8.859	-0.158
50	47	8.932	8.801	-0.131
	Max	9.042	8.948	0.031
	Average	8.934	8.805	-0.129
	Min	8.785	8.572	-0.289
	Std Dev	0.055	0.077	0.056

13.10_OUTB_RISE_1MHz_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	0	ns						
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.868	8.650	8.572	8.753	8.629	8.801	8.725	8.725
Average	8.917	8.763	8.711	8.794	8.743	8.860	8.824	8.824
Max	8.948	8.822	8.773	8.847	8.811	8.937	8.935	8.935
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000



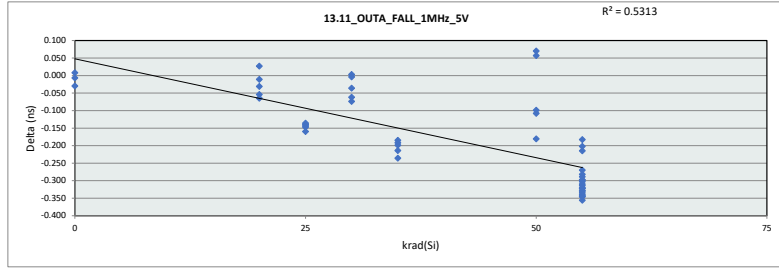
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.11_OUTA_FALL_1MHz_5V

Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0

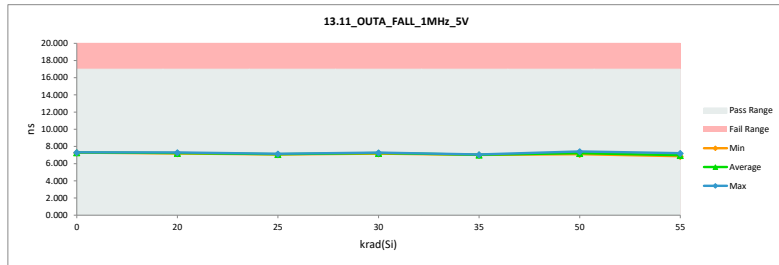
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.305	7.314	0.009
0	51	7.313	7.284	-0.029
0	52	7.319	7.313	-0.006
25	1	7.255	7.120	-0.135
25	2	7.285	7.146	-0.139
25	3	7.213	7.067	-0.146
25	4	7.210	7.067	-0.143
25	5	7.282	7.123	-0.159
20	6	7.254	7.190	-0.064
20	7	7.320	7.267	-0.053
20	8	7.324	7.294	-0.030
20	9	7.228	7.256	0.028
20	10	7.211	7.201	-0.010
35	11	7.210	7.026	-0.184
35	12	7.280	7.067	-0.213
35	13	7.250	7.015	-0.235
35	14	7.228	7.037	-0.191
35	15	7.247	7.049	-0.198
30	16	7.284	7.288	0.004
30	17	7.279	7.276	-0.003
30	18	7.290	7.229	-0.061
30	19	7.277	7.242	-0.035
30	20	7.246	7.173	-0.073
55	21	7.313	6.974	-0.339
55	22	7.269	6.947	-0.322
55	23	7.332	6.990	-0.342
55	24	7.282	6.954	-0.328
55	25	7.245	6.964	-0.281
55	26	7.338	7.156	-0.182
55	27	7.423	7.222	-0.201
55	28	7.310	7.013	-0.297
55	29	7.235	7.021	-0.214
55	30	7.310	7.008	-0.302
55	31	7.240	6.906	-0.334
55	32	7.276	6.988	-0.288
55	33	7.223	6.879	-0.344
55	34	7.280	6.961	-0.319
55	35	7.220	6.865	-0.355
55	36	7.233	6.888	-0.345
55	37	7.461	7.133	-0.328
55	38	7.314	7.001	-0.313
55	39	7.364	7.043	-0.321
55	40	7.186	6.877	-0.309
55	41	7.173	6.876	-0.297
55	42	7.240	6.971	-0.269
50	43	7.205	7.098	-0.107
50	44	7.200	7.102	-0.098
50	45	7.262	7.333	0.071
50	46	7.360	7.418	0.058
50	47	7.330	7.150	-0.180
	Max	7.461	7.418	0.071
	Average	7.275	7.096	-0.179
	Min	7.173	6.865	-0.355
	Std Dev	0.057	0.143	0.131



13.11_OUTA_FALL_1MHz_5V

Test Site	
Tester	
Test Number	
Max Limit	17 ns
Min Limit	0 ns

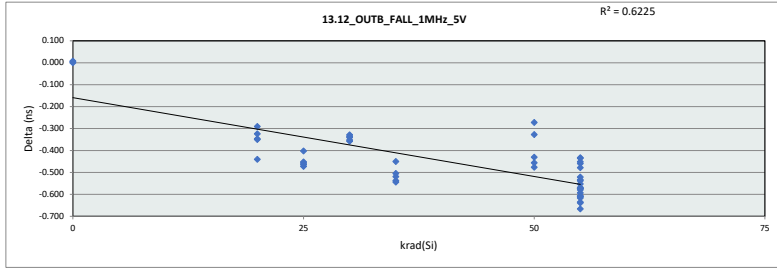
krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.284	7.190	7.067	7.173	7.015	7.098	6.865
Average	7.304	7.242	7.105	7.242	7.039	7.220	6.984
Max	7.314	7.294	7.146	7.288	7.067	7.418	7.222
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

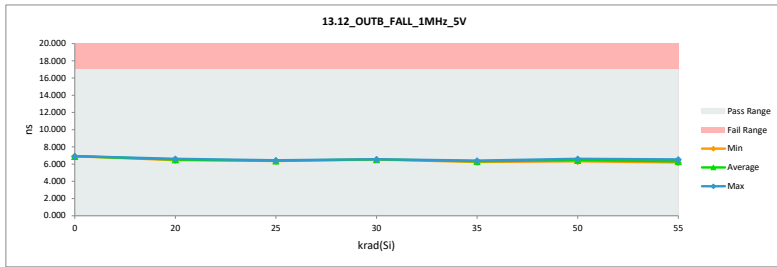
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.12_OUTB_FALL_1MHz_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.911	6.917	0.006
0	51	6.928	6.929	0.001
0	52	6.919	6.928	0.009
25	1	6.852	6.401	-0.451
25	2	6.907	6.444	-0.463
25	3	6.833	6.432	-0.401
25	4	6.838	6.367	-0.471
25	5	6.848	6.392	-0.456
20	6	6.920	6.481	-0.439
20	7	6.931	6.583	-0.348
20	8	6.938	6.615	-0.323
20	9	6.844	6.555	-0.289
20	10	6.804	6.458	-0.346
35	11	6.792	6.256	-0.536
35	12	6.868	6.365	-0.503
35	13	6.866	6.348	-0.518
35	14	6.849	6.306	-0.543
35	15	6.861	6.412	-0.449
30	16	6.888	6.561	-0.327
30	17	6.880	6.529	-0.351
30	18	6.892	6.536	-0.356
30	19	6.876	6.542	-0.334
30	20	6.890	6.551	-0.339
55	21	6.928	6.361	-0.567
55	22	6.864	6.227	-0.637
55	23	6.917	6.283	-0.634
55	24	6.888	6.283	-0.605
55	25	6.892	6.320	-0.572
55	26	6.960	6.528	-0.432
55	27	6.987	6.553	-0.434
55	28	6.905	6.368	-0.537
55	29	6.863	6.413	-0.450
55	30	6.847	6.370	-0.477
55	31	6.790	6.239	-0.551
55	32	6.879	6.347	-0.532
55	33	6.851	6.273	-0.578
55	34	6.865	6.255	-0.610
55	35	6.824	6.254	-0.570
55	36	6.814	6.206	-0.608
55	37	6.980	6.365	-0.615
55	38	6.907	6.449	-0.458
55	39	6.950	6.378	-0.572
55	40	6.808	6.216	-0.592
55	41	6.818	6.298	-0.520
55	42	6.861	6.196	-0.665
50	43	6.808	6.379	-0.429
50	44	6.790	6.335	-0.455
50	45	6.851	6.580	-0.271
50	46	6.947	6.621	-0.326
50	47	6.874	6.399	-0.475
	Max	6.987	6.929	0.009
	Average	6.876	6.428	-0.448
	Min	6.790	6.196	-0.665
	Std Dev	0.049	0.172	0.154

13.12_OUTB_FALL_1MHz_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	0	ns						
krad(Si)								
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	6.917	6.458	6.367	6.529	6.256	6.335	6.196	6.196
Average	6.925	6.538	6.407	6.544	6.337	6.463	6.326	6.326
Max	6.929	6.615	6.444	6.444	6.561	6.412	6.621	6.553
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000



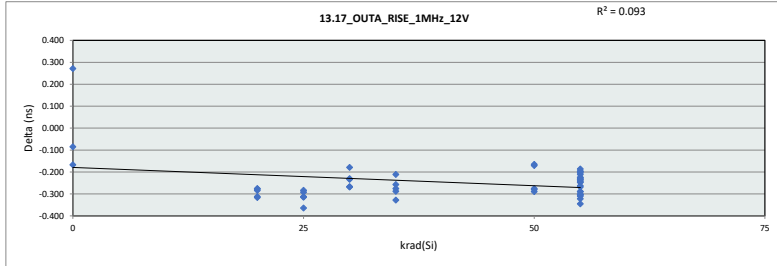
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.17_OUTA_RISE_1MHz_12V

Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0

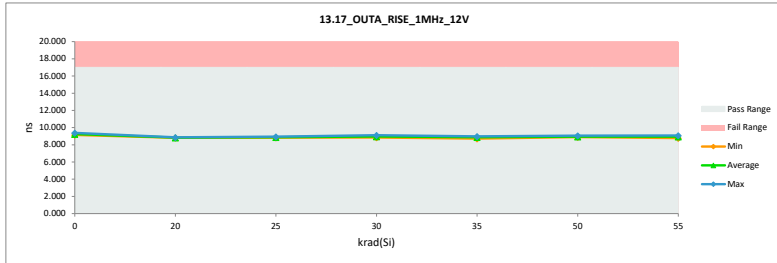
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.233	9.149	-0.084
0	51	9.386	9.220	-0.166
0	52	9.113	9.386	0.273
25	1	9.202	8.888	-0.314
25	2	9.226	8.944	-0.282
25	3	9.148	8.837	-0.311
25	4	9.190	8.827	-0.363
25	5	9.243	8.952	-0.291
20	6	9.146	8.872	-0.274
20	7	9.127	8.812	-0.315
20	8	9.157	8.846	-0.311
20	9	9.123	8.847	-0.276
20	10	9.091	8.808	-0.283
35	11	9.231	8.904	-0.327
35	12	9.180	8.893	-0.287
35	13	9.186	8.930	-0.256
35	14	9.188	8.978	-0.210
35	15	8.995	8.721	-0.274
30	16	9.198	8.966	-0.232
30	17	9.292	9.114	-0.178
30	18	9.211	8.982	-0.229
30	19	9.160	8.893	-0.267
30	20	9.112	8.846	-0.266
55	21	9.316	9.085	-0.231
55	22	9.308	9.006	-0.302
55	23	9.244	8.982	-0.262
55	24	9.278	9.034	-0.244
55	25	9.167	8.935	-0.232
55	26	9.273	9.050	-0.223
55	27	9.178	8.975	-0.203
55	28	9.261	8.994	-0.267
55	29	9.066	8.778	-0.288
55	30	9.034	8.849	-0.185
55	31	9.261	9.022	-0.239
55	32	9.239	9.042	-0.197
55	33	9.063	8.837	-0.226
55	34	9.164	8.820	-0.344
55	35	9.178	8.878	-0.300
55	36	9.118	8.830	-0.288
55	37	9.243	8.939	-0.304
55	38	9.211	8.890	-0.321
55	39	9.181	8.872	-0.309
55	40	9.153	8.958	-0.195
55	41	9.198	8.952	-0.246
55	42	9.195	8.985	-0.210
50	43	9.236	8.962	-0.274
50	44	9.241	9.072	-0.169
50	45	9.204	8.916	-0.288
50	46	9.098	8.934	-0.164
50	47	9.175	8.897	-0.278
	Max	9.386	9.386	0.273
	Average	9.188	8.942	-0.246
	Min	8.995	8.721	-0.363
	Std Dev	0.074	0.117	0.092



13.17_OUTA_RISE_1MHz_12V

Test Site	
Tester	
Test Number	
Max Limit	17 ns
Min Limit	0 ns

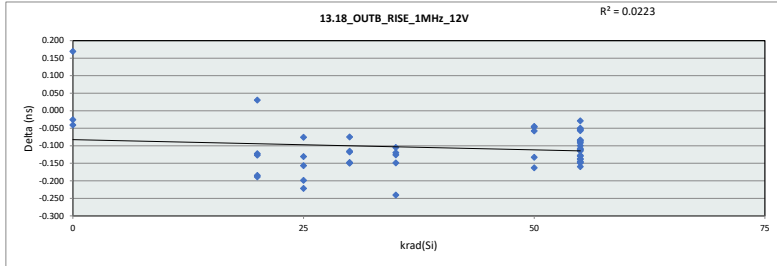
krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.149	8.808	8.827	8.846	8.721	8.897	8.778
Average	9.252	8.837	8.890	8.960	8.885	8.956	8.942
Max	9.386	8.872	8.952	9.114	8.978	9.072	9.085
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

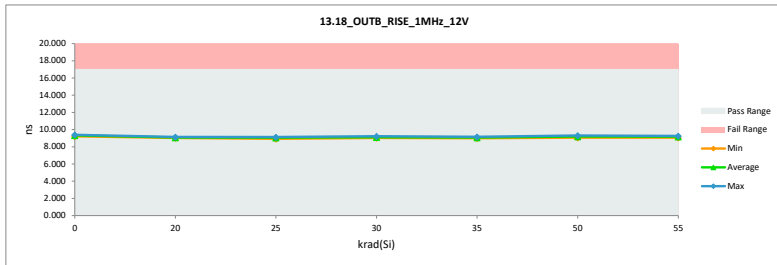
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.18_OUTB_RISE_1MHz_12V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.260	9.220	-0.040
0	51	9.395	9.370	-0.025
0	52	9.225	9.395	0.170
25	1	9.254	9.124	-0.130
25	2	9.152	8.931	-0.221
25	3	9.182	9.026	-0.156
25	4	9.214	9.139	-0.075
25	5	9.308	9.110	-0.198
20	6	9.228	9.044	-0.184
20	7	9.229	9.107	-0.122
20	8	9.226	9.038	-0.188
20	9	9.110	9.141	0.031
20	10	9.230	9.104	-0.126
35	11	9.255	9.130	-0.125
35	12	9.102	8.998	-0.104
35	13	9.261	9.021	-0.240
35	14	9.276	9.128	-0.148
35	15	9.283	9.164	-0.119
30	16	9.189	9.072	-0.117
30	17	9.306	9.232	-0.074
30	18	9.285	9.138	-0.147
30	19	9.175	9.026	-0.149
30	20	9.188	9.073	-0.115
55	21	9.348	9.260	-0.088
55	22	9.301	9.164	-0.137
55	23	9.275	9.184	-0.091
55	24	9.293	9.186	-0.107
55	25	9.212	9.085	-0.127
55	26	9.310	9.256	-0.054
55	27	9.251	9.199	-0.052
55	28	9.242	9.098	-0.144
55	29	9.268	9.240	-0.028
55	30	9.292	9.208	-0.084
55	31	9.296	9.167	-0.129
55	32	9.396	9.248	-0.148
55	33	9.215	9.159	-0.056
55	34	9.214	9.068	-0.146
55	35	9.279	9.120	-0.159
55	36	9.307	9.196	-0.111
55	37	9.264	9.181	-0.083
55	38	9.300	9.201	-0.099
55	39	9.243	9.133	-0.110
55	40	9.268	9.219	-0.049
55	41	9.279	9.165	-0.114
55	42	9.318	9.181	-0.137
50	43	9.328	9.196	-0.132
50	44	9.367	9.310	-0.057
50	45	9.261	9.217	-0.044
50	46	9.248	9.202	-0.046
50	47	9.230	9.068	-0.162
	Max	9.396	9.395	0.170
	Average	9.259	9.153	-0.106
	Min	9.102	8.931	-0.240
	Std Dev	0.061	0.090	0.066

13.18_OUTB_RISE_1MHz_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	17	ns						
Min Limit	0	ns						
krad(Si)								
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.220	9.038	8.931	9.026	8.998	9.068	9.068	9.068
Average	9.328	9.087	9.066	9.108	9.088	9.199	9.178	9.178
Max	9.395	9.141	9.139	9.232	9.164	9.310	9.260	9.260
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000	17.000

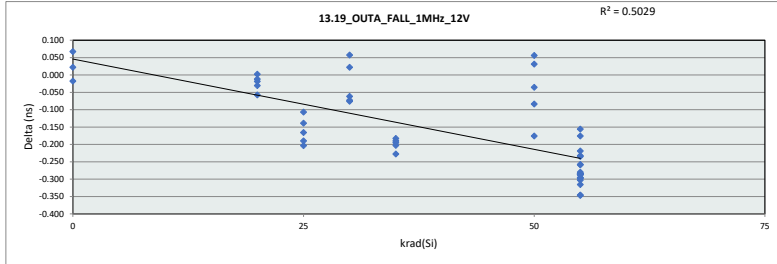


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.19_OUTA_FALL_1MHz_12V

Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0

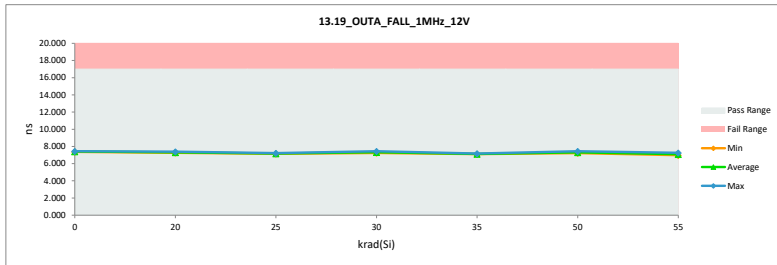


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.386	7.369	-0.017
0	51	7.426	7.449	0.023
0	52	7.358	7.426	0.068
25	1	7.395	7.230	-0.165
25	2	7.367	7.178	-0.189
25	3	7.279	7.173	-0.106
25	4	7.280	7.142	-0.138
25	5	7.381	7.178	-0.203
20	6	7.319	7.262	-0.057
20	7	7.398	7.401	0.003
20	8	7.365	7.354	-0.011
20	9	7.292	7.274	-0.018
20	10	7.284	7.254	-0.030
35	11	7.310	7.116	-0.194
35	12	7.333	7.106	-0.227
35	13	7.346	7.144	-0.202
35	14	7.305	7.116	-0.189
35	15	7.357	7.175	-0.182
30	16	7.356	7.379	0.023
30	17	7.382	7.440	0.058
30	18	7.372	7.311	-0.061
30	19	7.315	7.243	-0.072
30	20	7.341	7.266	-0.075
55	21	7.439	7.182	-0.257
55	22	7.384	7.039	-0.345
55	23	7.419	7.124	-0.295
55	24	7.374	7.078	-0.296
55	25	7.321	7.103	-0.218
55	26	7.427	7.252	-0.175
55	27	7.494	7.260	-0.234
55	28	7.406	7.110	-0.296
55	29	7.313	7.158	-0.155
55	30	7.376	7.091	-0.285
55	31	7.346	7.060	-0.286
55	32	7.381	7.102	-0.279
55	33	7.304	7.020	-0.284
55	34	7.329	6.983	-0.346
55	35	7.307	7.020	-0.287
55	36	7.315	7.032	-0.283
55	37	7.533	7.231	-0.302
55	38	7.387	7.155	-0.232
55	39	7.406	7.091	-0.315
55	40	7.283	6.999	-0.284
55	41	7.281	6.996	-0.285
55	42	7.315	7.057	-0.258
50	43	7.331	7.248	-0.083
50	44	7.317	7.282	-0.035
50	45	7.334	7.391	0.057
50	46	7.410	7.442	0.032
50	47	7.394	7.219	-0.175
Max	7.533	7.449	0.068	
Average	7.357	7.194	-0.163	
Min	7.279	6.983	-0.346	
Std Dev	0.054	0.130	0.124	

13.19_OUTA_FALL_1MHz_12V

Test Site	
Tester	
Test Number	
Max Limit	17 ns
Min Limit	0 ns

krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.369	7.254	7.142	7.243	7.106	7.219	6.983
Average	7.415	7.309	7.180	7.328	7.131	7.316	7.097
Max	7.449	7.401	7.230	7.440	7.175	7.442	7.260
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



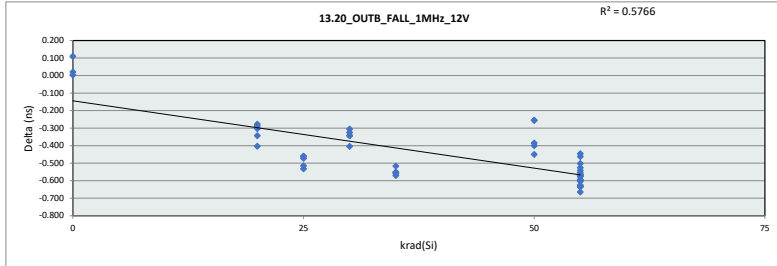
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.20_OUTB_FALL_1MHz_12V

Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0

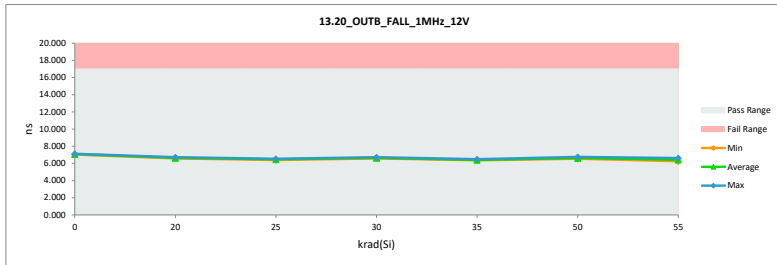
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.026	7.031	0.005
0	51	7.104	7.126	0.022
0	52	6.992	7.104	0.112
25	1	7.009	6.539	-0.470
25	2	7.002	6.472	-0.530
25	3	6.902	6.442	-0.460
25	4	6.911	6.398	-0.513
25	5	6.972	6.514	-0.458
20	6	6.969	6.568	-0.401
20	7	7.026	6.725	-0.301
20	8	7.020	6.679	-0.341
20	9	6.912	6.625	-0.287
20	10	6.867	6.592	-0.275
35	11	6.904	6.356	-0.548
35	12	6.935	6.380	-0.555
35	13	6.971	6.403	-0.568
35	14	6.932	6.379	-0.553
35	15	7.011	6.496	-0.515
30	16	6.984	6.661	-0.323
30	17	7.037	6.734	-0.303
30	18	6.984	6.644	-0.340
30	19	6.910	6.568	-0.342
30	20	7.006	6.604	-0.402
55	21	7.096	6.503	-0.593
55	22	7.005	6.375	-0.630
55	23	7.028	6.429	-0.599
55	24	7.006	6.406	-0.600
55	25	6.993	6.421	-0.572
55	26	7.101	6.577	-0.524
55	27	7.087	6.627	-0.460
55	28	7.031	6.478	-0.553
55	29	6.949	6.505	-0.444
55	30	6.995	6.455	-0.540
55	31	6.919	6.289	-0.630
55	32	7.026	6.452	-0.574
55	33	6.911	6.345	-0.566
55	34	6.935	6.342	-0.593
55	35	6.914	6.251	-0.663
55	36	6.905	6.271	-0.634
55	37	7.086	6.517	-0.569
55	38	7.023	6.523	-0.500
55	39	7.033	6.464	-0.569
55	40	6.912	6.348	-0.564
55	41	6.930	6.360	-0.570
55	42	6.964	6.341	-0.623
50	43	6.955	6.557	-0.398
50	44	6.938	6.555	-0.383
50	45	6.933	6.680	-0.253
50	46	7.019	6.766	-0.253
50	47	6.985	6.537	-0.448
	Max	7.104	7.126	0.112
	Average	6.981	6.528	-0.453
	Min	6.867	6.251	-0.663
	Std Dev	0.059	0.189	0.171



13.20_OUTB_FALL_1MHz_12V

Test Site	
Tester	
Test Number	
Max Limit	17 ns
Min Limit	0 ns

krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.031	6.568	6.398	6.568	6.356	6.537	6.251
Average	7.087	6.638	6.473	6.642	6.403	6.619	6.422
Max	7.126	6.725	6.539	6.734	6.496	6.766	6.627
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000

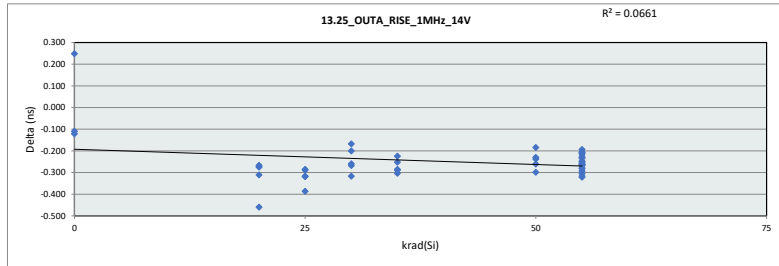


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.25_OUTA_RISE_1MHz_14V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	17
Min Limit	0

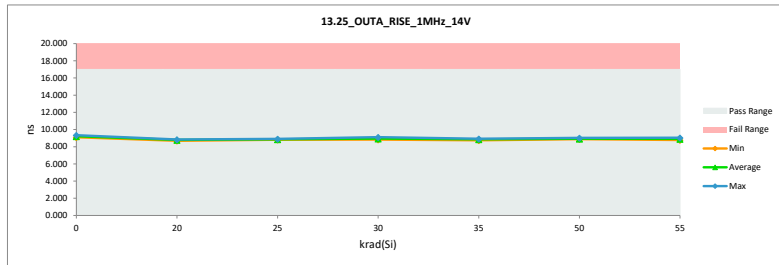
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.211	9.103	-0.108
0	51	9.343	9.223	-0.120
0	52	9.093	9.343	0.250
25	1	9.182	8.898	-0.284
25	2	9.202	8.915	-0.287
25	3	9.128	8.811	-0.317
25	4	9.178	8.863	-0.315
25	5	9.228	8.843	-0.385
20	6	9.148	8.690	-0.458
20	7	9.115	8.844	-0.271
20	8	9.142	8.833	-0.309
20	9	9.067	8.794	-0.273
20	10	9.057	8.792	-0.265
35	11	9.164	8.880	-0.284
35	12	9.162	8.875	-0.287
35	13	9.175	8.873	-0.302
35	14	9.175	8.924	-0.251
35	15	8.964	8.741	-0.223
30	16	9.169	8.970	-0.199
30	17	9.288	9.122	-0.166
30	18	9.213	8.955	-0.258
30	19	9.144	8.829	-0.315
30	20	9.105	8.839	-0.266
55	21	9.313	9.047	-0.266
55	22	9.300	9.020	-0.280
55	23	9.223	8.968	-0.255
55	24	9.246	9.033	-0.213
55	25	9.163	8.885	-0.278
55	26	9.245	8.983	-0.262
55	27	9.164	8.940	-0.224
55	28	9.238	8.935	-0.303
55	29	9.062	8.803	-0.259
55	30	9.010	8.777	-0.233
55	31	9.243	8.979	-0.264
55	32	9.203	8.998	-0.205
55	33	9.042	8.794	-0.248
55	34	9.131	8.840	-0.291
55	35	9.140	8.820	-0.320
55	36	9.075	8.870	-0.205
55	37	9.233	9.002	-0.231
55	38	9.173	8.981	-0.192
55	39	9.128	8.813	-0.315
55	40	9.165	8.905	-0.260
55	41	9.173	8.926	-0.247
55	42	9.192	8.983	-0.209
50	43	9.224	8.988	-0.236
50	44	9.216	9.033	-0.183
50	45	9.171	8.912	-0.259
50	46	9.106	8.877	-0.229
50	47	9.185	8.888	-0.297
	Max	9.343	9.343	0.250
	Average	9.168	8.919	-0.249
	Min	8.964	8.690	-0.458
	Std Dev	0.075	0.119	0.093



13.25_OUTA_RISE_1MHz_14V

13.25_OUTA_RISE_1MHz_14V	
Test Site	
Tester	
Test Number	
Max Limit	17
Min Limit	0

krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.103	8.690	8.811	8.829	8.741	8.877	8.777
Average	9.223	8.791	8.866	8.943	8.859	8.940	8.923
Max	9.343	8.844	8.915	9.122	8.924	9.033	9.047
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000

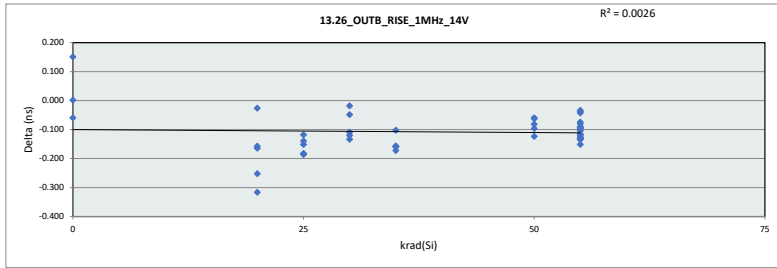


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.26_OUTB_RISE_1MHz_14V

Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0

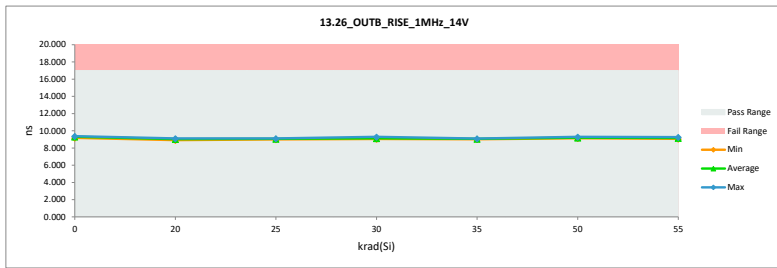


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	9.239	9.181	-0.058
0	51	9.375	9.378	0.003
0	52	9.223	9.375	0.152
25	1	9.276	9.095	-0.181
25	2	9.163	9.025	-0.138
25	3	9.148	8.998	-0.150
25	4	9.190	9.073	-0.117
25	5	9.297	9.112	-0.185
20	6	9.231	8.916	-0.315
20	7	9.260	9.104	-0.156
20	8	9.213	8.962	-0.251
20	9	9.133	9.108	-0.025
20	10	9.229	9.066	-0.163
35	11	9.243	9.085	-0.158
35	12	9.112	9.011	-0.101
35	13	9.233	9.078	-0.155
35	14	9.251	9.093	-0.158
35	15	9.273	9.102	-0.171
30	16	9.186	9.078	-0.108
30	17	9.315	9.298	-0.017
30	18	9.260	9.141	-0.119
30	19	9.173	9.041	-0.132
30	20	9.160	9.113	-0.047
55	21	9.343	9.254	-0.089
55	22	9.285	9.157	-0.128
55	23	9.272	9.140	-0.132
55	24	9.320	9.170	-0.150
55	25	9.195	9.063	-0.132
55	26	9.304	9.263	-0.041
55	27	9.237	9.204	-0.033
55	28	9.239	9.147	-0.092
55	29	9.250	9.213	-0.037
55	30	9.282	9.150	-0.132
55	31	9.275	9.183	-0.092
55	32	9.363	9.233	-0.130
55	33	9.216	9.101	-0.115
55	34	9.187	9.061	-0.126
55	35	9.242	9.139	-0.103
55	36	9.280	9.186	-0.094
55	37	9.246	9.130	-0.116
55	38	9.289	9.159	-0.130
55	39	9.204	9.131	-0.073
55	40	9.290	9.211	-0.079
55	41	9.290	9.194	-0.096
55	42	9.296	9.175	-0.121
50	43	9.331	9.209	-0.122
50	44	9.354	9.293	-0.061
50	45	9.253	9.173	-0.080
50	46	9.239	9.181	-0.058
50	47	9.223	9.128	-0.095
	Max	9.375	9.378	0.152
	Average	9.250	9.142	-0.108
	Min	9.112	8.916	-0.315
	Std Dev	0.059	0.092	0.068

13.26_OUTB_RISE_1MHz_14V

Test Site	
Tester	
Test Number	
Max Limit	17 ns
Min Limit	0 ns

krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.181	8.916	8.998	9.041	9.011	9.128	9.061
Average	9.311	9.031	9.061	9.134	9.074	9.197	9.167
Max	9.378	9.108	9.112	9.298	9.102	9.293	9.263
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000

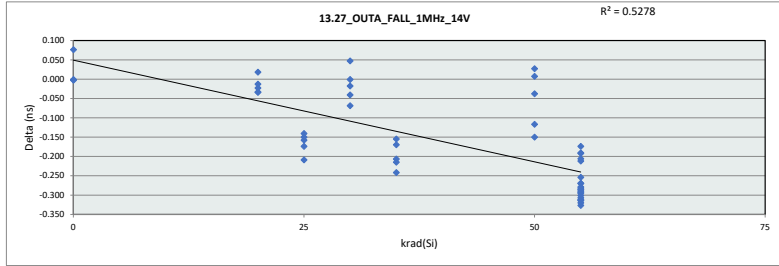


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.27_OUTA_FALL_1MHz_14V

Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0

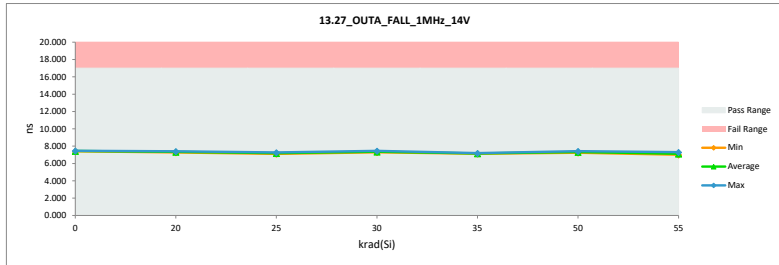


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.410	7.410	0.000
0	51	7.466	7.464	-0.002
0	52	7.389	7.466	0.077
25	1	7.416	7.267	-0.149
25	2	7.387	7.230	-0.157
25	3	7.300	7.160	-0.140
25	4	7.280	7.107	-0.173
25	5	7.397	7.189	-0.208
20	6	7.342	7.309	-0.033
20	7	7.437	7.415	-0.022
20	8	7.387	7.375	-0.012
20	9	7.304	7.323	0.019
20	10	7.311	7.278	-0.033
35	11	7.344	7.138	-0.206
35	12	7.346	7.132	-0.214
35	13	7.373	7.132	-0.241
35	14	7.320	7.166	-0.154
35	15	7.367	7.198	-0.169
30	16	7.384	7.384	0.000
30	17	7.417	7.465	0.048
30	18	7.399	7.382	-0.017
30	19	7.342	7.302	-0.040
30	20	7.360	7.292	-0.068
55	21	7.468	7.162	-0.306
55	22	7.397	7.085	-0.312
55	23	7.451	7.140	-0.311
55	24	7.396	7.110	-0.286
55	25	7.348	7.157	-0.191
55	26	7.465	7.260	-0.205
55	27	7.505	7.315	-0.190
55	28	7.428	7.135	-0.293
55	29	7.324	7.151	-0.173
55	30	7.398	7.145	-0.253
55	31	7.368	7.074	-0.294
55	32	7.412	7.099	-0.313
55	33	7.308	7.039	-0.269
55	34	7.372	7.053	-0.319
55	35	7.320	7.020	-0.300
55	36	7.319	7.034	-0.285
55	37	7.538	7.257	-0.281
55	38	7.400	7.189	-0.211
55	39	7.427	7.101	-0.326
55	40	7.300	7.010	-0.290
55	41	7.308	7.039	-0.269
55	42	7.330	7.052	-0.278
50	43	7.355	7.239	-0.116
50	44	7.345	7.308	-0.037
50	45	7.361	7.389	0.028
50	46	7.423	7.431	0.008
50	47	7.408	7.259	-0.149
	Max	7.538	7.466	0.077
	Average	7.379	7.217	-0.162
	Min	7.280	7.010	-0.326
	Std Dev	0.056	0.132	0.122

13.27_OUTA_FALL_1MHz_14V

Test Site	
Tester	
Test Number	
Max Limit	17 ns
Min Limit	0 ns

krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.410	7.278	7.107	7.292	7.132	7.239	7.010
Average	7.447	7.340	7.191	7.365	7.153	7.325	7.119
Max	7.466	7.415	7.267	7.465	7.198	7.431	7.315
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



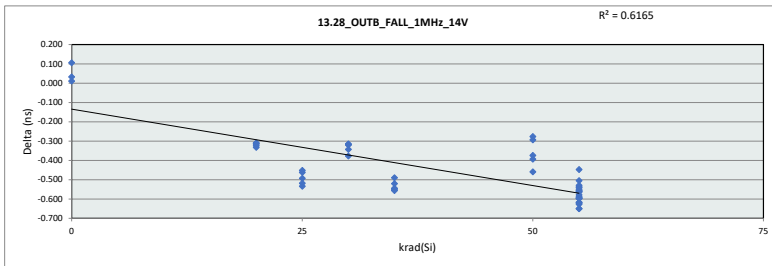
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.28_OUTB_FALL_1MHz_14V

Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	17 17
Min Limit	0 0

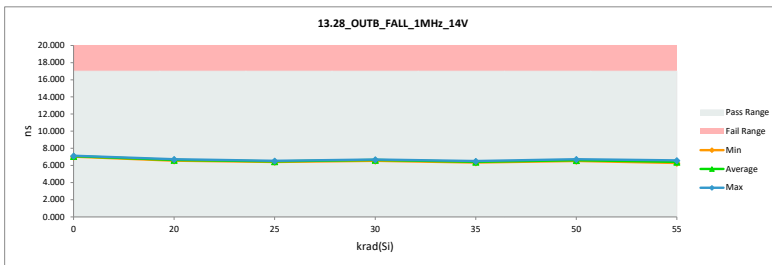
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.021	7.033	0.012
0	51	7.105	7.139	0.034
0	52	6.998	7.105	0.107
25	1	7.027	6.536	-0.491
25	2	7.006	6.545	-0.461
25	3	6.895	6.445	-0.450
25	4	6.940	6.408	-0.532
25	5	6.972	6.455	-0.517
20	6	6.966	6.635	-0.331
20	7	7.034	6.726	-0.308
20	8	7.010	6.700	-0.310
20	9	6.944	6.622	-0.322
20	10	6.874	6.560	-0.314
35	11	6.905	6.350	-0.555
35	12	6.948	6.429	-0.519
35	13	6.967	6.424	-0.543
35	14	6.951	6.404	-0.547
35	15	7.008	6.520	-0.488
30	16	6.987	6.670	-0.317
30	17	7.032	6.691	-0.341
30	18	6.998	6.685	-0.313
30	19	6.919	6.543	-0.376
30	20	6.996	6.678	-0.318
55	21	7.093	6.507	-0.586
55	22	7.010	6.361	-0.649
55	23	7.038	6.390	-0.648
55	24	7.010	6.414	-0.596
55	25	6.990	6.462	-0.528
55	26	7.092	6.553	-0.539
55	27	7.094	6.591	-0.503
55	28	7.031	6.496	-0.535
55	29	6.962	6.516	-0.446
55	30	7.001	6.383	-0.618
55	31	6.925	6.334	-0.591
55	32	7.016	6.422	-0.594
55	33	6.923	6.375	-0.548
55	34	6.938	6.312	-0.626
55	35	6.915	6.300	-0.615
55	36	6.913	6.293	-0.620
55	37	7.107	6.513	-0.594
55	38	7.024	6.461	-0.563
55	39	7.041	6.483	-0.558
55	40	6.910	6.353	-0.557
55	41	6.936	6.380	-0.556
55	42	6.958	6.381	-0.577
50	43	6.948	6.575	-0.373
50	44	6.946	6.554	-0.392
50	45	6.941	6.666	-0.275
50	46	7.028	6.736	-0.292
50	47	6.980	6.522	-0.458
	Max	7.107	7.139	0.107
	Average	6.985	6.533	-0.453
	Min	6.874	6.293	-0.649
	Std Dev	0.057	0.186	0.170



13.28_OUTB_FALL_1MHz_14V

Test Site	
Tester	
Test Number	
Max Limit	17 ns
Min Limit	0 ns

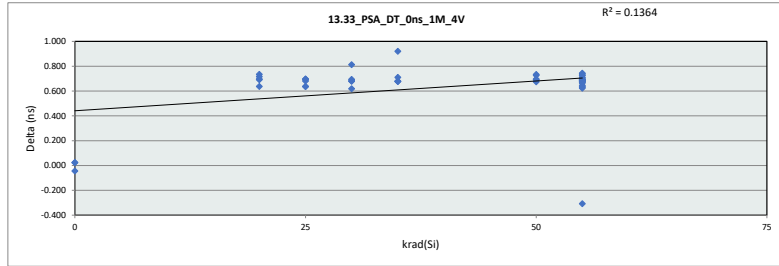
krad(Si)	0	20	25	30	35	50	55
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.033	6.560	6.408	6.543	6.350	6.522	6.293
Average	7.092	6.649	6.478	6.653	6.425	6.611	6.422
Max	7.139	6.726	6.545	6.691	6.520	6.736	6.591
UL	17.000	17.000	17.000	17.000	17.000	17.000	17.000



**HDR TID Report
TPS7H5005-SEP**

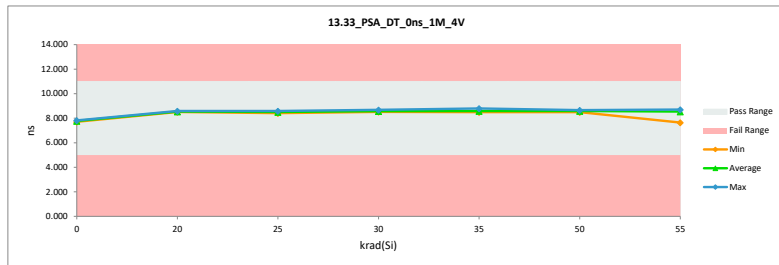
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.33_PSA_DT_0ns_1M_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.753	7.711	-0.042
0	51	7.795	7.822	0.027
0	52	7.770	7.795	0.025
25	1	7.782	8.420	0.638
25	2	7.823	8.523	0.700
25	3	7.868	8.508	0.640
25	4	7.892	8.589	0.697
25	5	7.841	8.525	0.684
20	6	7.841	8.578	0.737
20	7	7.823	8.517	0.694
20	8	7.870	8.588	0.718
20	9	7.844	8.543	0.699
20	10	7.869	8.509	0.640
35	11	7.819	8.499	0.680
35	12	7.826	8.539	0.713
35	13	7.911	8.591	0.680
35	14	7.874	8.797	0.923
35	15	7.828	8.509	0.681
30	16	7.878	8.574	0.696
30	17	7.886	8.567	0.681
30	18	7.869	8.684	0.815
30	19	7.858	8.541	0.683
30	20	7.895	8.516	0.621
55	21	7.915	8.613	0.698
55	22	7.881	8.514	0.633
55	23	7.847	8.532	0.685
55	24	7.918	8.613	0.695
55	25	7.960	8.706	0.746
55	26	7.827	8.505	0.678
55	27	7.796	8.444	0.648
55	28	7.897	8.627	0.730
55	29	7.915	8.582	0.667
55	30	7.909	8.650	0.741
55	31	7.853	8.580	0.727
55	32	7.951	7.646	-0.305
55	33	7.919	8.610	0.691
55	34	7.948	8.633	0.685
55	35	7.977	8.668	0.691
55	36	7.989	8.700	0.711
55	37	7.764	8.443	0.679
55	38	7.909	8.616	0.707
55	39	7.830	8.470	0.640
55	40	7.958	8.584	0.626
55	41	7.966	8.638	0.672
55	42	7.988	8.681	0.693
50	43	7.963	8.662	0.699
50	44	7.919	8.596	0.677
50	45	7.881	8.610	0.729
50	46	7.808	8.501	0.693
50	47	7.827	8.563	0.736
	Max	7.989	8.797	0.923
	Average	7.875	8.509	0.634
	Min	7.753	7.646	-0.305
	Std Dev	0.061	0.240	0.220

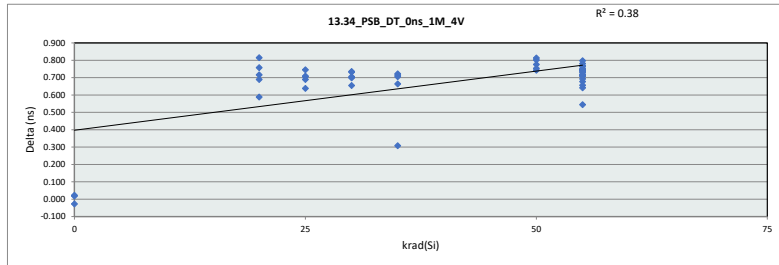
13.33_PSA_DT_0ns_1M_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	11	ns						
Min Limit	5	ns						
krad(Si)								
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	7.711	8.509	8.420	8.516	8.499	8.501	7.646	7.646
Average	7.776	8.547	8.513	8.576	8.587	8.586	8.548	8.548
Max	7.822	8.588	8.589	8.684	8.797	8.662	8.706	8.706
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

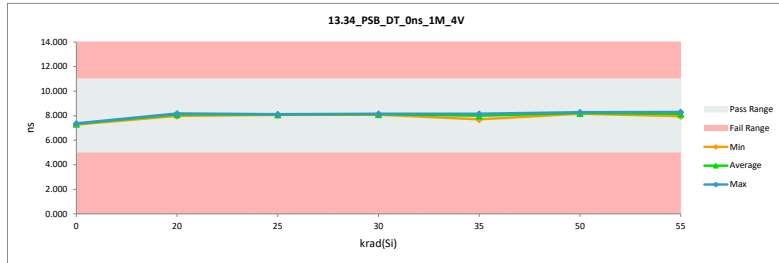
13.34_PSB_DT_0ns_1M_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	7.301	7.275	-0.026
0	51	7.351	7.375	0.024
0	52	7.331	7.351	0.020
25	1	7.361	8.108	0.747
25	2	7.400	8.108	0.708
25	3	7.350	8.060	0.710
25	4	7.431	8.122	0.691
25	5	7.422	8.062	0.640
20	6	7.297	8.113	0.816
20	7	7.417	8.108	0.691
20	8	7.463	8.181	0.718
20	9	7.390	7.980	0.590
20	10	7.375	8.134	0.759
35	11	7.335	8.000	0.665
35	12	7.356	8.072	0.716
35	13	7.430	8.153	0.723
35	14	7.386	7.695	0.309
35	15	7.361	8.068	0.707
30	16	7.425	8.162	0.737
30	17	7.421	8.121	0.700
30	18	7.443	8.150	0.707
30	19	7.422	8.078	0.656
30	20	7.339	8.072	0.733
55	21	7.390	8.141	0.751
55	22	7.404	8.172	0.768
55	23	7.391	8.133	0.742
55	24	7.468	8.147	0.679
55	25	7.556	8.304	0.748
55	26	7.307	8.077	0.770
55	27	7.339	8.056	0.717
55	28	7.424	8.171	0.747
55	29	7.413	8.125	0.712
55	30	7.429	8.180	0.751
55	31	7.357	8.156	0.799
55	32	7.455	8.001	0.546
55	33	7.454	8.190	0.736
55	34	7.528	8.238	0.710
55	35	7.449	8.169	0.720
55	36	7.470	8.128	0.658
55	37	7.316	7.959	0.643
55	38	7.416	8.147	0.731
55	39	7.375	8.140	0.765
55	40	7.483	8.265	0.782
55	41	7.441	8.135	0.694
55	42	7.474	8.219	0.745
50	43	7.491	8.268	0.777
50	44	7.488	8.291	0.803
50	45	7.424	8.179	0.755
50	46	7.345	8.160	0.815
50	47	7.421	8.165	0.744
	Max	7.556	8.304	0.816
	Average	7.406	8.077	0.671
	Min	7.297	7.275	-0.026
	Std Dev	0.059	0.212	0.187

13.34_PSB_DT_0ns_1M_4V	
Test Site	
Tester	
Test Number	
Max Limit	11 ns
Min Limit	5 ns

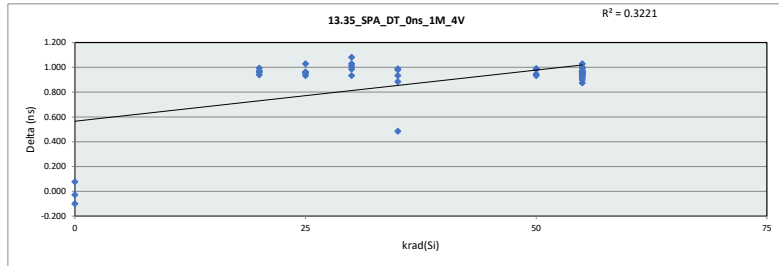
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	7.275	7.980	8.060	8.072	7.695	8.160	7.959
Average	7.334	8.103	8.092	8.117	7.998	8.213	8.148
Max	7.375	8.181	8.122	8.162	8.153	8.291	8.304
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

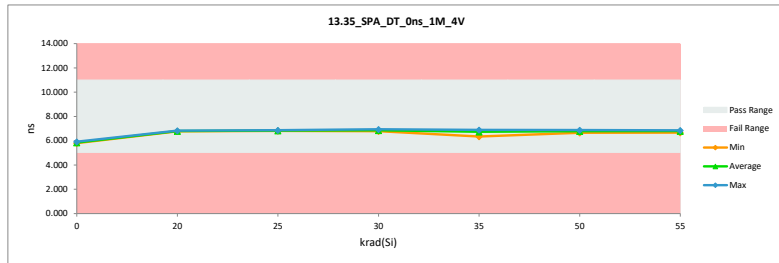
13.35_SPA_DT_0ns_1M_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.829	5.803	-0.026
0	51	5.923	5.826	-0.097
0	52	5.844	5.923	0.079
25	1	5.897	6.851	0.954
25	2	5.863	6.821	0.958
25	3	5.840	6.870	1.030
25	4	5.845	6.810	0.965
25	5	5.875	6.810	0.935
20	6	5.830	6.792	0.962
20	7	5.829	6.770	0.941
20	8	5.814	6.786	0.972
20	9	5.842	6.810	0.968
20	10	5.843	6.839	0.996
35	11	5.930	6.865	0.935
35	12	5.871	6.861	0.990
35	13	5.907	6.889	0.982
35	14	5.863	6.350	0.487
35	15	5.849	6.736	0.887
30	16	5.876	6.888	1.012
30	17	5.850	6.785	0.935
30	18	5.864	6.947	1.083
30	19	5.830	6.817	0.987
30	20	5.848	6.878	1.030
55	21	5.807	6.752	0.945
55	22	5.844	6.837	0.993
55	23	5.878	6.845	0.967
55	24	5.882	6.820	0.938
55	25	5.896	6.855	0.959
55	26	5.844	6.814	0.970
55	27	5.757	6.695	0.938
55	28	5.845	6.809	0.964
55	29	5.849	6.796	0.947
55	30	5.884	6.847	0.963
55	31	5.794	6.717	0.923
55	32	5.942	6.818	0.876
55	33	5.884	6.859	0.975
55	34	5.893	6.864	0.971
55	35	5.840	6.796	0.956
55	36	5.887	6.787	0.900
55	37	5.760	6.724	0.964
55	38	5.753	6.668	0.915
55	39	5.811	6.815	1.004
55	40	5.820	6.850	1.030
55	41	5.843	6.809	0.966
55	42	5.850	6.815	0.965
50	43	5.894	6.885	0.991
50	44	5.896	6.884	0.988
50	45	5.808	6.756	0.948
50	46	5.725	6.660	0.935
50	47	5.771	6.760	0.989
	Max	5.942	6.947	1.083
	Average	5.848	6.745	0.897
	Min	5.725	5.803	-0.097
	Std Dev	0.046	0.245	0.246

13.35_SPA_DT_0ns_1M_4V	
Test Site	
Tester	
Test Number	
Max Limit	11 ns
Min Limit	5 ns

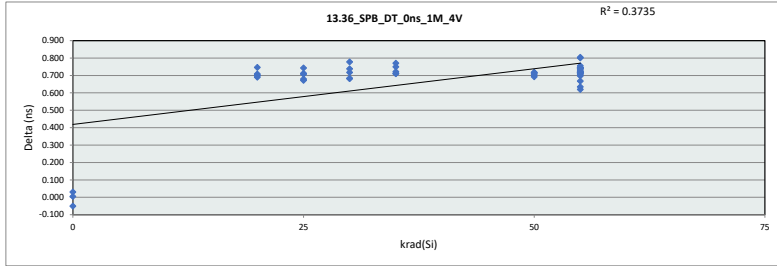
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	5.803	6.770	6.810	6.785	6.350	6.660	6.668
Average	5.851	6.799	6.832	6.863	6.740	6.789	6.800
Max	5.923	6.839	6.870	6.947	6.889	6.885	6.864
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
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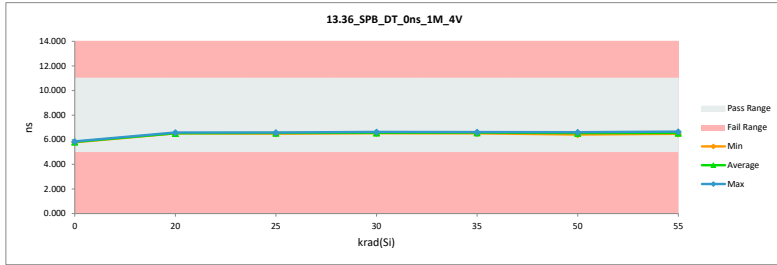
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.36_SPB_DT_0ns_1M_4V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	11
Min Limit	5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.789	5.795	0.006
0	51	5.869	5.820	-0.049
0	52	5.837	5.869	0.032
25	1	5.870	6.584	0.714
25	2	5.871	6.552	0.681
25	3	5.824	6.533	0.709
25	4	5.828	6.501	0.673
25	5	5.850	6.594	0.744
20	6	5.820	6.523	0.703
20	7	5.837	6.585	0.748
20	8	5.808	6.518	0.710
20	9	5.831	6.522	0.691
20	10	5.815	6.515	0.700
35	11	5.870	6.583	0.713
35	12	5.838	6.589	0.751
35	13	5.916	6.627	0.711
35	14	5.812	6.584	0.772
35	15	5.802	6.525	0.723
30	16	5.861	6.640	0.779
30	17	5.857	6.596	0.739
30	18	5.846	6.529	0.683
30	19	5.850	6.535	0.685
30	20	5.831	6.550	0.719
55	21	5.793	6.516	0.723
55	22	5.779	6.491	0.712
55	23	5.850	6.587	0.737
55	24	5.888	6.524	0.636
55	25	5.845	6.591	0.746
55	26	5.789	6.488	0.699
55	27	5.762	6.507	0.745
55	28	5.802	6.604	0.802
55	29	5.856	6.602	0.746
55	30	5.862	6.590	0.728
55	31	5.897	6.619	0.722
55	32	5.870	6.491	0.621
55	33	5.866	6.623	0.757
55	34	5.896	6.613	0.717
55	35	5.859	6.528	0.669
55	36	5.855	6.598	0.743
55	37	5.812	6.530	0.718
55	38	5.815	6.530	0.715
55	39	5.774	6.492	0.718
55	40	5.857	6.663	0.806
55	41	5.835	6.578	0.743
55	42	5.843	6.550	0.707
50	43	5.874	6.593	0.719
50	44	5.913	6.618	0.705
50	45	5.833	6.546	0.713
50	46	5.735	6.429	0.694
50	47	5.816	6.534	0.718
Max		5.916	6.663	0.806
Average		5.838	6.514	0.676
Min		5.735	5.795	-0.049
Std Dev		0.038	0.182	0.177

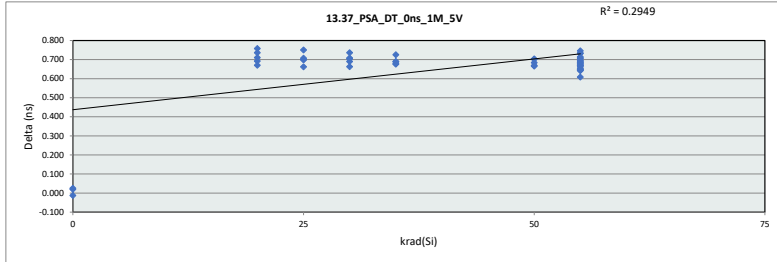
13.36_SPB_DT_0ns_1M_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	11	ns						
Min Limit	5	ns						
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	5.795	6.515	6.501	6.529	6.525	6.429	6.488	6.488
Average	5.828	6.533	6.553	6.570	6.582	6.544	6.560	6.560
Max	5.869	6.585	6.594	6.640	6.627	6.618	6.663	6.663
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000



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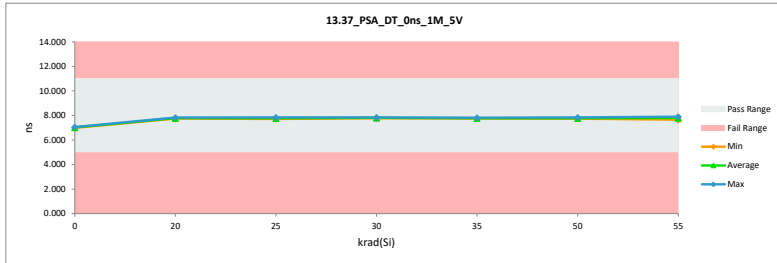
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.37_PSA_DT_0ns_1M_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.998	6.987	-0.011
0	51	7.033	7.055	0.022
0	52	7.006	7.033	0.027
25	1	7.003	7.712	0.709
25	2	7.075	7.777	0.702
25	3	7.089	7.753	0.664
25	4	7.088	7.840	0.752
25	5	7.058	7.759	0.701
20	6	7.088	7.760	0.672
20	7	7.055	7.749	0.694
20	8	7.095	7.833	0.738
20	9	7.052	7.812	0.760
20	10	7.064	7.776	0.712
35	11	7.071	7.749	0.678
35	12	7.069	7.759	0.690
35	13	7.118	7.798	0.680
35	14	7.090	7.817	0.727
35	15	7.059	7.751	0.692
30	16	7.107	7.772	0.665
30	17	7.087	7.793	0.706
30	18	7.109	7.847	0.738
30	19	7.089	7.799	0.710
30	20	7.127	7.819	0.692
55	21	7.129	7.823	0.694
55	22	7.099	7.835	0.736
55	23	7.059	7.770	0.711
55	24	7.132	7.806	0.674
55	25	7.152	7.900	0.748
55	26	7.064	7.733	0.669
55	27	7.042	7.688	0.646
55	28	7.097	7.803	0.706
55	29	7.102	7.773	0.671
55	30	7.121	7.772	0.651
55	31	7.079	7.734	0.655
55	32	7.136	7.800	0.664
55	33	7.126	7.770	0.644
55	34	7.126	7.860	0.734
55	35	7.169	7.819	0.650
55	36	7.149	7.829	0.680
55	37	7.026	7.722	0.696
55	38	7.123	7.811	0.688
55	39	7.044	7.654	0.610
55	40	7.143	7.859	0.716
55	41	7.144	7.824	0.680
55	42	7.168	7.855	0.687
50	43	7.154	7.840	0.686
50	44	7.103	7.774	0.671
50	45	7.088	7.756	0.668
50	46	7.031	7.736	0.705
50	47	7.057	7.762	0.705
	Max	7.169	7.900	0.760
	Average	7.090	7.741	0.651
	Min	6.998	6.987	-0.011
	Std Dev	0.043	0.189	0.166

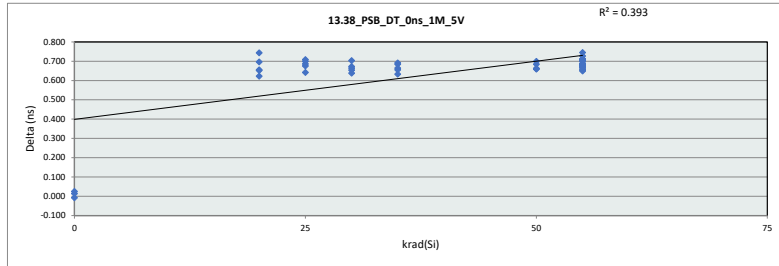
13.37_PSA_DT_0ns_1M_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	11 ns							
Min Limit	5 ns							
krad(Si)		0	20	25	30	35	50	55
LL		5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min		6.987	7.749	7.712	7.772	7.749	7.736	7.654
Average		7.025	7.786	7.768	7.806	7.775	7.774	7.793
Max		7.055	7.833	7.840	7.847	7.817	7.840	7.900
UL		11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

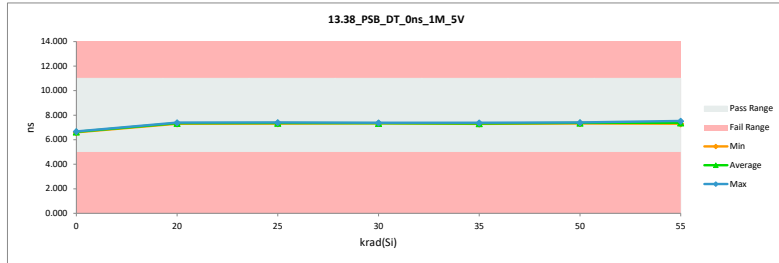
13.38_PSB_DT_0ns_1M_5V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	11
Min Limit	5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.610	6.604	-0.006
0	51	6.649	6.676	0.027
0	52	6.633	6.649	0.016
25	1	6.654	7.355	0.701
25	2	6.691	7.335	0.644
25	3	6.631	7.319	0.688
25	4	6.707	7.384	0.677
25	5	6.695	7.405	0.710
20	6	6.604	7.349	0.745
20	7	6.700	7.398	0.698
20	8	6.733	7.387	0.654
20	9	6.679	7.303	0.624
20	10	6.664	7.321	0.657
35	11	6.653	7.339	0.686
35	12	6.658	7.315	0.657
35	13	6.698	7.391	0.693
35	14	6.653	7.288	0.635
35	15	6.664	7.330	0.666
30	16	6.729	7.385	0.656
30	17	6.673	7.339	0.666
30	18	6.698	7.338	0.640
30	19	6.694	7.368	0.674
30	20	6.640	7.345	0.705
55	21	6.675	7.404	0.729
55	22	6.687	7.359	0.672
55	23	6.676	7.332	0.656
55	24	6.740	7.452	0.712
55	25	6.784	7.531	0.747
55	26	6.637	7.308	0.671
55	27	6.655	7.341	0.686
55	28	6.691	7.381	0.690
55	29	6.690	7.372	0.682
55	30	6.694	7.361	0.667
55	31	6.655	7.335	0.680
55	32	6.702	7.416	0.714
55	33	6.699	7.401	0.702
55	34	6.756	7.434	0.678
55	35	6.702	7.407	0.705
55	36	6.706	7.409	0.703
55	37	6.636	7.348	0.712
55	38	6.681	7.357	0.676
55	39	6.662	7.313	0.651
55	40	6.742	7.402	0.660
55	41	6.694	7.384	0.690
55	42	6.727	7.411	0.684
50	43	6.725	7.386	0.661
50	44	6.717	7.381	0.664
50	45	6.704	7.405	0.701
50	46	6.641	7.327	0.686
50	47	6.695	7.359	0.664
	Max	6.784	7.531	0.747
	Average	6.684	7.325	0.641
	Min	6.604	6.604	-0.006
	Std Dev	0.037	0.179	0.163

13.38_PSB_DT_0ns_1M_5V	
Test Site	
Tester	
Test Number	
Max Limit	11
Min Limit	5

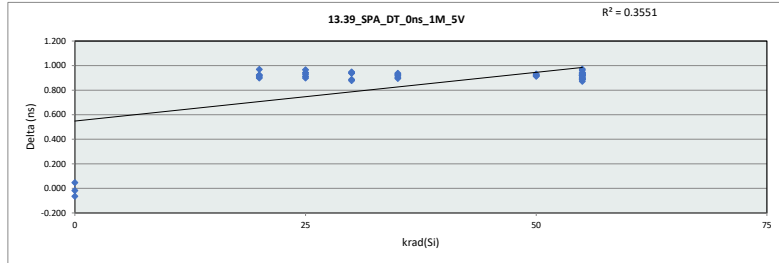
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	6.604	7.303	7.319	7.338	7.288	7.327	7.308
Average	6.643	7.352	7.360	7.355	7.333	7.372	7.384
Max	6.676	7.398	7.405	7.385	7.391	7.405	7.531
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
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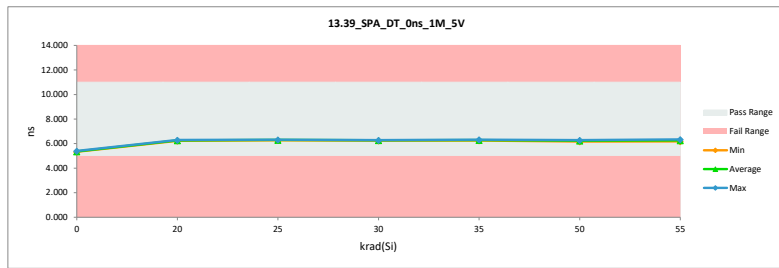
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.39_SPA_DT_Ons_1M_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.352	5.337	-0.015
0	51	5.404	5.342	-0.062
0	52	5.354	5.404	0.050
25	1	5.409	6.325	0.916
25	2	5.375	6.320	0.945
25	3	5.348	6.281	0.933
25	4	5.344	6.312	0.968
25	5	5.369	6.270	0.901
20	6	5.346	6.270	0.924
20	7	5.329	6.230	0.901
20	8	5.321	6.232	0.911
20	9	5.343	6.269	0.926
20	10	5.329	6.301	0.972
35	11	5.396	6.327	0.931
35	12	5.351	6.291	0.940
35	13	5.391	6.289	0.898
35	14	5.342	6.250	0.908
35	15	5.346	6.269	0.923
30	16	5.372	6.262	0.890
30	17	5.336	6.287	0.951
30	18	5.364	6.244	0.880
30	19	5.340	6.284	0.944
30	20	5.347	6.287	0.940
55	21	5.308	6.229	0.921
55	22	5.349	6.275	0.926
55	23	5.357	6.331	0.974
55	24	5.364	6.306	0.942
55	25	5.377	6.343	0.966
55	26	5.352	6.275	0.923
55	27	5.307	6.225	0.918
55	28	5.350	6.274	0.924
55	29	5.341	6.242	0.901
55	30	5.367	6.241	0.874
55	31	5.306	6.199	0.893
55	32	5.354	6.301	0.947
55	33	5.361	6.304	0.943
55	34	5.380	6.268	0.888
55	35	5.327	6.256	0.929
55	36	5.352	6.283	0.931
55	37	5.302	6.226	0.924
55	38	5.276	6.182	0.906
55	39	5.310	6.249	0.939
55	40	5.306	6.198	0.892
55	41	5.314	6.236	0.922
55	42	5.345	6.240	0.895
50	43	5.339	6.267	0.928
50	44	5.356	6.290	0.934
50	45	5.330	6.248	0.918
50	46	5.257	6.174	0.917
50	47	5.284	6.207	0.923
	Max	5.409	6.343	0.974
	Average	5.344	6.211	0.867
	Min	5.257	5.337	-0.062
	Std Dev	0.031	0.220	0.225

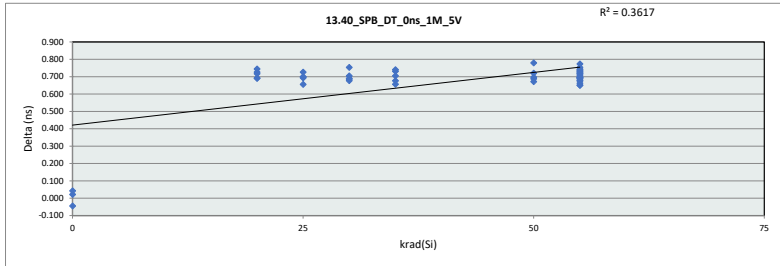
13.39_SPA_DT_Ons_1M_5V								
Test Site								
Tester								
Test Number								
Max Limit	11	ns						
Min Limit	5	ns						
krad(Si)	0	20	25	30	35	50	55	
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	
Min	5.337	6.230	6.270	6.244	6.250	6.174	6.182	
Average	5.361	6.260	6.302	6.273	6.285	6.237	6.258	
Max	5.404	6.301	6.325	6.287	6.327	6.290	6.343	
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	



**HDR TID Report
TPS7H5005-SEP**

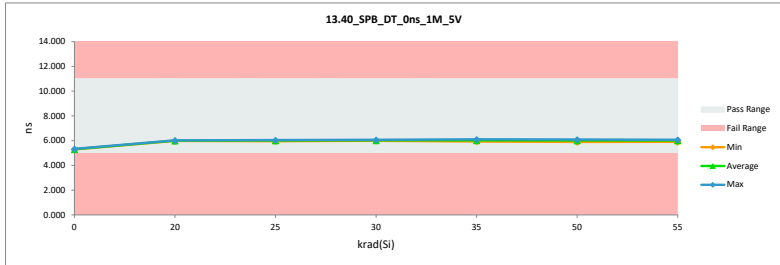
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.40_SPB_DT_Ons_1M_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.266	5.289	0.023
0	51	5.336	5.293	-0.043
0	52	5.292	5.336	0.044
25	1	5.352	6.047	0.695
25	2	5.341	6.042	0.701
25	3	5.288	6.016	0.728
25	4	5.298	5.955	0.657
25	5	5.301	6.001	0.700
20	6	5.262	5.981	0.719
20	7	5.305	5.999	0.694
20	8	5.288	6.016	0.728
20	9	5.290	5.982	0.692
20	10	5.276	6.022	0.746
35	11	5.329	6.035	0.706
35	12	5.312	6.054	0.742
35	13	5.375	6.108	0.733
35	14	5.278	5.936	0.658
35	15	5.281	5.959	0.678
30	16	5.349	6.040	0.691
30	17	5.311	6.066	0.755
30	18	5.328	6.016	0.688
30	19	5.307	5.986	0.679
30	20	5.323	6.029	0.706
55	21	5.273	6.014	0.741
55	22	5.254	5.932	0.678
55	23	5.313	5.965	0.652
55	24	5.346	6.042	0.696
55	25	5.326	6.059	0.733
55	26	5.268	5.963	0.695
55	27	5.261	6.036	0.775
55	28	5.292	6.019	0.727
55	29	5.318	5.970	0.652
55	30	5.308	5.986	0.678
55	31	5.365	6.072	0.707
55	32	5.328	6.042	0.714
55	33	5.317	6.072	0.755
55	34	5.352	6.052	0.700
55	35	5.306	5.998	0.692
55	36	5.299	5.997	0.698
55	37	5.301	6.036	0.735
55	38	5.292	6.013	0.721
55	39	5.244	5.908	0.664
55	40	5.332	6.020	0.688
55	41	5.314	6.035	0.721
55	42	5.325	6.070	0.745
50	43	5.314	6.013	0.699
50	44	5.369	6.091	0.722
50	45	5.292	6.073	0.781
50	46	5.227	5.900	0.673
50	47	5.281	5.971	0.690
Max	5.375	6.108	0.781	
Average	5.306	5.971	0.665	
Min	5.227	5.289	-0.043	
Std Dev	0.032	0.176	0.171	

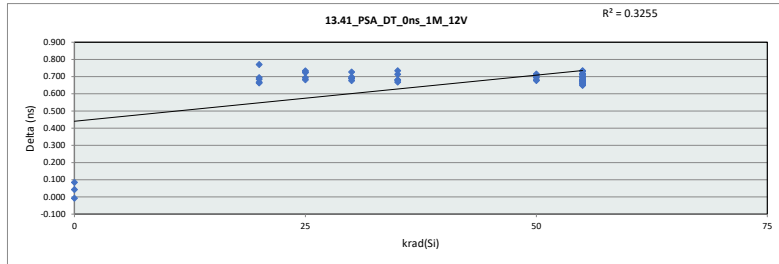
13.40_SPB_DT_Ons_1M_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	11	ns						
Min Limit	5	ns						
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	5.289	5.981	5.955	5.986	5.936	5.908	5.908	5.908
Average	5.306	6.000	6.012	6.027	6.018	6.010	6.014	6.014
Max	5.336	6.022	6.047	6.066	6.108	6.091	6.072	6.072
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

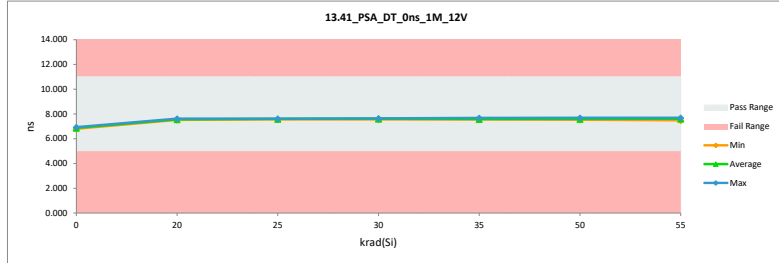
13.41_PSA_DT_Ons_1M_12V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.811	6.805	-0.006
0	51	6.895	6.940	0.045
0	52	6.808	6.895	0.087
25	1	6.895	7.590	0.695
25	2	6.877	7.605	0.728
25	3	6.879	7.562	0.683
25	4	6.895	7.630	0.735
25	5	6.886	7.611	0.725
20	6	6.861	7.526	0.665
20	7	6.875	7.571	0.696
20	8	6.899	7.586	0.687
20	9	6.857	7.629	0.772
20	10	6.875	7.544	0.669
35	11	6.895	7.610	0.715
35	12	6.874	7.557	0.683
35	13	6.946	7.682	0.736
35	14	6.903	7.584	0.681
35	15	6.889	7.559	0.670
30	16	6.917	7.607	0.690
30	17	6.946	7.624	0.678
30	18	6.928	7.657	0.729
30	19	6.860	7.553	0.693
30	20	6.941	7.641	0.700
55	21	6.976	7.627	0.651
55	22	6.936	7.652	0.716
55	23	6.884	7.598	0.714
55	24	6.966	7.665	0.699
55	25	6.976	7.674	0.698
55	26	6.892	7.626	0.734
55	27	6.852	7.540	0.688
55	28	6.932	7.613	0.681
55	29	6.911	7.631	0.720
55	30	6.958	7.640	0.682
55	31	6.912	7.574	0.662
55	32	6.991	7.654	0.663
55	33	6.917	7.596	0.679
55	34	6.942	7.642	0.700
55	35	6.940	7.625	0.685
55	36	6.962	7.636	0.674
55	37	6.849	7.554	0.705
55	38	6.938	7.616	0.678
55	39	6.832	7.487	0.655
55	40	6.958	7.694	0.736
55	41	6.962	7.631	0.669
55	42	6.980	7.657	0.677
50	43	6.981	7.698	0.717
50	44	6.944	7.623	0.679
50	45	6.909	7.591	0.682
50	46	6.838	7.534	0.696
50	47	6.867	7.573	0.706
	Max	6.991	7.698	0.772
	Average	6.908	7.564	0.656
	Min	6.808	6.805	-0.006
	Std Dev	0.046	0.181	0.159

13.41_PSA_DT_Ons_1M_12V	
Test Site	
Tester	
Test Number	
Max Limit	11 ns
Min Limit	5 ns

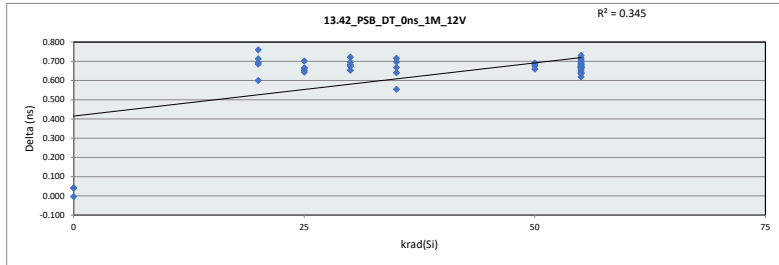
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	6.805	7.526	7.562	7.553	7.557	7.534	7.487
Average	6.880	7.571	7.600	7.616	7.598	7.604	7.620
Max	6.940	7.629	7.630	7.657	7.682	7.698	7.694
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
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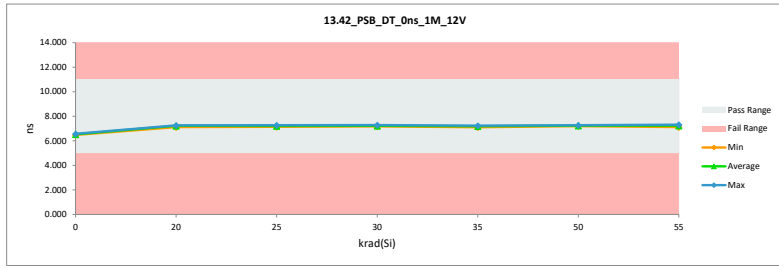
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.42_PSB_DT_Ons_1M_12V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.485	6.483	-0.002
0	51	6.531	6.574	0.043
0	52	6.488	6.531	0.043
25	1	6.558	7.224	0.666
25	2	6.553	7.219	0.666
25	3	6.489	7.144	0.655
25	4	6.557	7.202	0.645
25	5	6.568	7.271	0.703
20	6	6.479	7.240	0.761
20	7	6.563	7.257	0.694
20	8	6.578	7.265	0.687
20	9	6.525	7.127	0.602
20	10	6.514	7.228	0.714
35	11	6.523	7.221	0.698
35	12	6.507	7.176	0.669
35	13	6.551	7.107	0.556
35	14	6.525	7.242	0.717
35	15	6.546	7.188	0.642
30	16	6.571	7.268	0.697
30	17	6.565	7.288	0.723
30	18	6.554	7.209	0.655
30	19	6.530	7.215	0.685
30	20	6.503	7.179	0.676
55	21	6.568	7.211	0.643
55	22	6.562	7.234	0.672
55	23	6.539	7.270	0.731
55	24	6.599	7.292	0.693
55	25	6.647	7.318	0.671
55	26	6.503	7.124	0.621
55	27	6.521	7.173	0.652
55	28	6.565	7.251	0.686
55	29	6.554	7.214	0.660
55	30	6.573	7.282	0.709
55	31	6.552	7.226	0.674
55	32	6.572	7.291	0.719
55	33	6.545	7.232	0.687
55	34	6.602	7.305	0.703
55	35	6.545	7.184	0.639
55	36	6.555	7.220	0.665
55	37	6.509	7.208	0.699
55	38	6.572	7.246	0.674
55	39	6.497	7.135	0.638
55	40	6.602	7.287	0.685
55	41	6.553	7.224	0.671
55	42	6.582	7.260	0.678
50	43	6.602	7.263	0.661
50	44	6.586	7.270	0.684
50	45	6.544	7.235	0.691
50	46	6.507	7.199	0.692
50	47	6.551	7.228	0.677
	Max	6.647	7.318	0.761
	Average	6.547	7.185	0.637
	Min	6.479	6.483	-0.002
	Std Dev	0.035	0.174	0.159

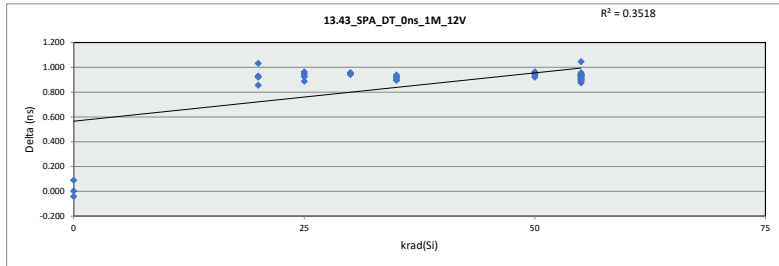
13.42_PSB_DT_Ons_1M_12V								
Test Site								
Tester								
Test Number								
Max Limit	11	ns						
Min Limit	5	ns						
krad(Si)	0	20	25	30	35	50	55	
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	
Min	6.483	7.127	7.144	7.179	7.107	7.199	7.124	
Average	6.529	7.223	7.212	7.232	7.187	7.239	7.236	
Max	6.574	7.265	7.271	7.288	7.242	7.270	7.318	
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

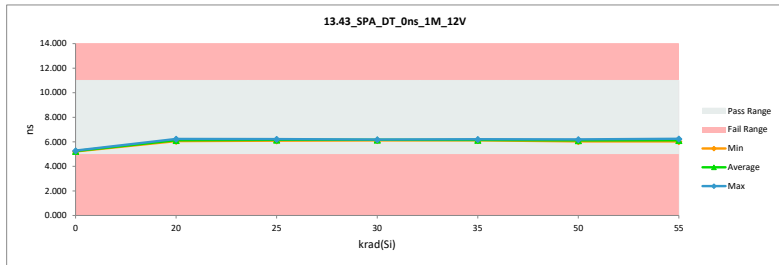
13.43_SPA_DT_Ons_1M_12V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.208	5.213	0.005
0	51	5.286	5.247	-0.039
0	52	5.194	5.286	0.092
25	1	5.289	6.217	0.928
25	2	5.241	6.190	0.949
25	3	5.206	6.096	0.890
25	4	5.186	6.152	0.966
25	5	5.220	6.149	0.929
20	6	5.194	6.052	0.858
20	7	5.202	6.236	1.034
20	8	5.178	6.109	0.931
20	9	5.203	6.133	0.930
20	10	5.195	6.118	0.923
35	11	5.266	6.206	0.940
35	12	5.213	6.138	0.925
35	13	5.245	6.142	0.897
35	14	5.200	6.122	0.922
35	15	5.224	6.130	0.906
30	16	5.224	6.183	0.959
30	17	5.229	6.176	0.947
30	18	5.210	6.166	0.956
30	19	5.174	6.119	0.945
30	20	5.217	6.172	0.955
55	21	5.194	6.124	0.930
55	22	5.220	6.163	0.943
55	23	5.221	6.125	0.904
55	24	5.226	6.166	0.940
55	25	5.248	6.158	0.910
55	26	5.245	6.122	0.877
55	27	5.156	6.097	0.941
55	28	5.211	6.155	0.944
55	29	5.187	6.125	0.938
55	30	5.217	6.164	0.947
55	31	5.178	6.118	0.940
55	32	5.235	6.160	0.925
55	33	5.215	6.174	0.959
55	34	5.226	6.154	0.928
55	35	5.188	6.078	0.890
55	36	5.206	6.116	0.910
55	37	5.174	6.104	0.930
55	38	5.143	6.038	0.895
55	39	5.156	6.064	0.908
55	40	5.161	6.074	0.913
55	41	5.200	6.140	0.940
55	42	5.199	6.247	1.048
50	43	5.232	6.198	0.966
50	44	5.220	6.178	0.958
50	45	5.176	6.099	0.923
50	46	5.105	6.039	0.934
50	47	5.138	6.086	0.948
	Max	5.289	6.247	1.048
	Average	5.206	6.084	0.879
	Min	5.105	5.213	-0.039
	Std Dev	0.035	0.218	0.222

13.43_SPA_DT_Ons_1M_12V	
Test Site	
Tester	
Test Number	
Max Limit	11 ns
Min Limit	5 ns

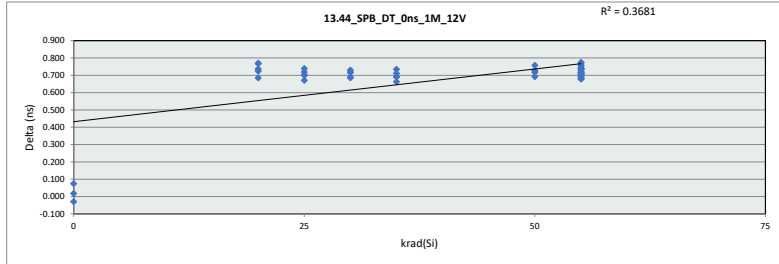
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	5.213	6.052	6.096	6.119	6.122	6.039	6.038
Average	5.249	6.130	6.161	6.163	6.148	6.120	6.130
Max	5.286	6.236	6.217	6.183	6.206	6.198	6.247
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

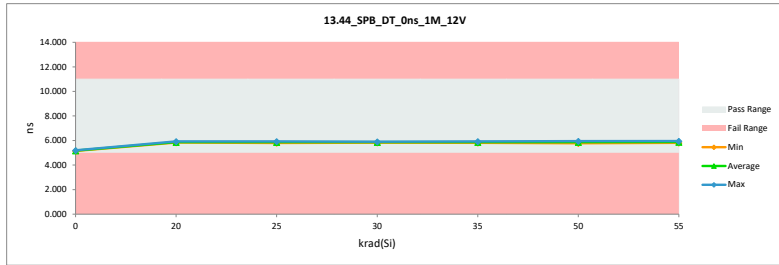
13.44_SPB_DT_Ons_1M_12V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	11
Min Limit	5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.130	5.149	0.019
0	51	5.203	5.175	-0.028
0	52	5.127	5.203	0.076
25	1	5.207	5.927	0.720
25	2	5.186	5.887	0.701
25	3	5.131	5.803	0.672
25	4	5.138	5.878	0.740
25	5	5.171	5.875	0.704
20	6	5.105	5.843	0.738
20	7	5.164	5.933	0.769
20	8	5.118	5.843	0.725
20	9	5.149	5.835	0.686
20	10	5.116	5.887	0.771
35	11	5.193	5.929	0.736
35	12	5.161	5.853	0.692
35	13	5.205	5.898	0.693
35	14	5.127	5.840	0.713
35	15	5.146	5.810	0.664
30	16	5.166	5.856	0.690
30	17	5.191	5.909	0.718
30	18	5.176	5.894	0.718
30	19	5.137	5.824	0.687
30	20	5.160	5.891	0.731
55	21	5.153	5.845	0.692
55	22	5.128	5.810	0.682
55	23	5.171	5.906	0.735
55	24	5.209	5.952	0.743
55	25	5.176	5.916	0.740
55	26	5.133	5.852	0.719
55	27	5.110	5.823	0.713
55	28	5.146	5.862	0.716
55	29	5.156	5.931	0.775
55	30	5.182	5.863	0.681
55	31	5.219	5.926	0.707
55	32	5.207	5.910	0.703
55	33	5.160	5.891	0.731
55	34	5.183	5.957	0.774
55	35	5.152	5.843	0.691
55	36	5.143	5.857	0.714
55	37	5.155	5.860	0.705
55	38	5.149	5.829	0.680
55	39	5.075	5.831	0.756
55	40	5.175	5.934	0.759
55	41	5.160	5.881	0.721
55	42	5.153	5.893	0.740
50	43	5.185	5.944	0.759
50	44	5.218	5.947	0.729
50	45	5.148	5.874	0.726
50	46	5.061	5.779	0.718
50	47	5.129	5.823	0.694
Max		5.219	5.957	0.775
Average		5.157	5.834	0.677
Min		5.061	5.149	-0.028
Std Dev		0.034	0.173	0.170

13.44_SPB_DT_Ons_1M_12V	
Test Site	
Tester	
Test Number	
Max Limit	11
Min Limit	5

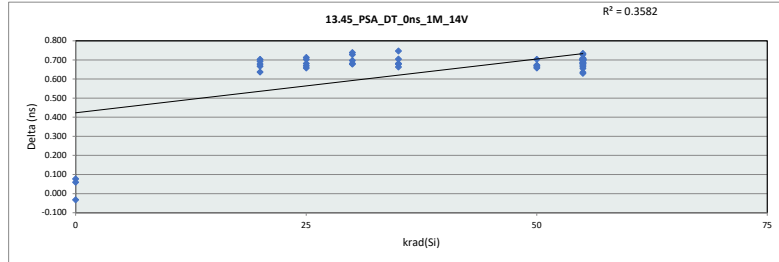
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	5.149	5.835	5.803	5.824	5.810	5.779	5.810
Average	5.176	5.868	5.874	5.875	5.866	5.873	5.881
Max	5.203	5.933	5.927	5.909	5.929	5.947	5.957
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



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krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

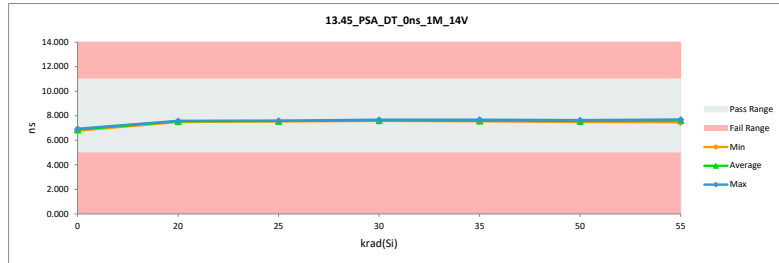
13.45_PSA_DT_0ns_1M_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.817	6.786	-0.031
0	51	6.883	6.944	0.061
0	52	6.805	6.883	0.078
25	1	6.886	7.545	0.659
25	2	6.885	7.589	0.704
25	3	6.895	7.565	0.670
25	4	6.886	7.568	0.682
25	5	6.883	7.597	0.714
20	6	6.857	7.551	0.694
20	7	6.881	7.560	0.679
20	8	6.889	7.593	0.704
20	9	6.852	7.490	0.638
20	10	6.881	7.549	0.668
35	11	6.903	7.585	0.682
35	12	6.879	7.585	0.706
35	13	6.940	7.688	0.748
35	14	6.897	7.576	0.679
35	15	6.892	7.556	0.664
30	16	6.919	7.601	0.682
30	17	6.940	7.680	0.740
30	18	6.912	7.610	0.698
30	19	6.858	7.587	0.729
30	20	6.939	7.618	0.679
55	21	6.976	7.678	0.702
55	22	6.941	7.622	0.681
55	23	6.889	7.618	0.729
55	24	6.958	7.661	0.703
55	25	6.972	7.675	0.703
55	26	6.920	7.622	0.702
55	27	6.856	7.522	0.666
55	28	6.931	7.638	0.707
55	29	6.910	7.581	0.671
55	30	6.932	7.612	0.680
55	31	6.912	7.621	0.709
55	32	6.964	7.699	0.735
55	33	6.921	7.618	0.697
55	34	6.942	7.578	0.636
55	35	6.945	7.649	0.704
55	36	6.959	7.657	0.698
55	37	6.870	7.558	0.688
55	38	6.938	7.622	0.684
55	39	6.852	7.483	0.631
55	40	6.960	7.670	0.710
55	41	6.964	7.621	0.657
55	42	6.978	7.665	0.687
50	43	6.976	7.640	0.664
50	44	6.944	7.648	0.704
50	45	6.904	7.578	0.674
50	46	6.833	7.492	0.659
50	47	6.872	7.543	0.671
	Max	6.978	7.699	0.748
	Average	6.908	7.558	0.650
	Min	6.805	6.786	-0.031
	Std Dev	0.043	0.183	0.159

13.45_PSA_DT_0ns_1M_14V	
Test Site	
Tester	
Test Number	
Max Limit	11 ns
Min Limit	5 ns

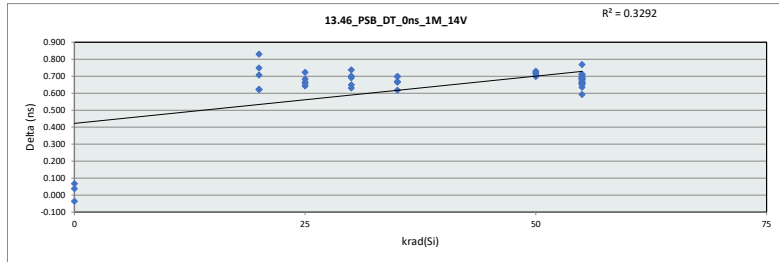
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	6.786	7.490	7.545	7.587	7.556	7.492	7.483
Average	6.871	7.549	7.573	7.619	7.598	7.580	7.621
Max	6.944	7.593	7.597	7.680	7.688	7.648	7.699
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



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krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

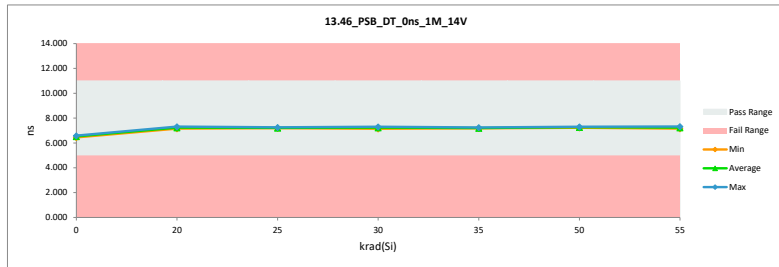
13.46_PSB_DT_Ons_1M_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	6.481	6.447	-0.034
0	51	6.551	6.591	0.040
0	52	6.481	6.551	0.070
25	1	6.551	7.196	0.645
25	2	6.566	7.235	0.669
25	3	6.479	7.204	0.725
25	4	6.532	7.192	0.660
25	5	6.573	7.259	0.686
20	6	6.487	7.319	0.832
20	7	6.563	7.314	0.751
20	8	6.568	7.191	0.623
20	9	6.533	7.158	0.625
20	10	6.514	7.223	0.709
35	11	6.518	7.185	0.667
35	12	6.514	7.185	0.671
35	13	6.559	7.179	0.620
35	14	6.513	7.214	0.701
35	15	6.544	7.245	0.701
30	16	6.576	7.279	0.703
30	17	6.568	7.308	0.740
30	18	6.559	7.210	0.651
30	19	6.528	7.221	0.693
30	20	6.512	7.145	0.633
55	21	6.568	7.232	0.664
55	22	6.569	7.253	0.684
55	23	6.541	7.228	0.687
55	24	6.610	7.325	0.715
55	25	6.635	7.307	0.672
55	26	6.489	7.260	0.771
55	27	6.517	7.196	0.679
55	28	6.566	7.219	0.653
55	29	6.542	7.230	0.688
55	30	6.547	7.208	0.661
55	31	6.538	7.250	0.712
55	32	6.575	7.267	0.692
55	33	6.540	7.200	0.660
55	34	6.600	7.292	0.692
55	35	6.546	7.243	0.697
55	36	6.552	7.263	0.711
55	37	6.522	7.180	0.658
55	38	6.558	7.224	0.666
55	39	6.519	7.156	0.637
55	40	6.590	7.251	0.661
55	41	6.555	7.247	0.692
55	42	6.577	7.172	0.595
50	43	6.594	7.297	0.703
50	44	6.587	7.304	0.717
50	45	6.542	7.243	0.701
50	46	6.503	7.225	0.722
50	47	6.554	7.286	0.732
	Max	6.635	7.325	0.832
	Average	6.546	7.192	0.646
	Min	6.479	6.447	-0.034
	Std Dev	0.034	0.176	0.164

13.46_PSB_DT_Ons_1M_14V	
Test Site	
Tester	
Test Number	
Max Limit	11 ns
Min Limit	5 ns

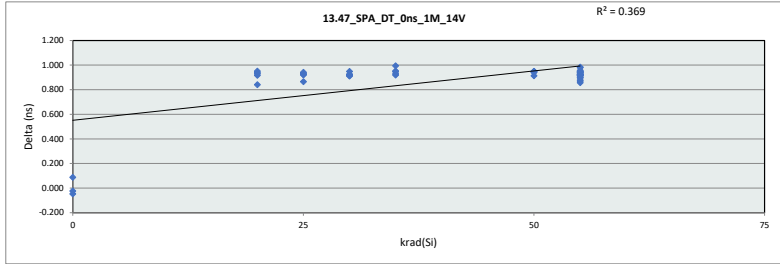
krad(Si)	0	20	25	30	35	50	55
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	6.447	7.158	7.192	7.145	7.179	7.225	7.156
Average	6.530	7.241	7.217	7.233	7.202	7.271	7.237
Max	6.591	7.319	7.259	7.308	7.245	7.304	7.325
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000



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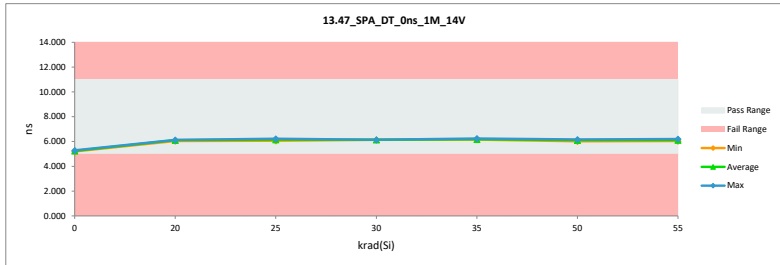
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.47_SPA_DT_0ns_1M_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	11 11
Min Limit	5 5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.218	5.197	-0.021
0	51	5.289	5.245	-0.044
0	52	5.199	5.289	0.090
25	1	5.289	6.224	0.935
25	2	5.243	6.167	0.924
25	3	5.212	6.156	0.944
25	4	5.197	6.065	0.868
25	5	5.237	6.162	0.925
20	6	5.194	6.135	0.941
20	7	5.197	6.130	0.933
20	8	5.170	6.124	0.954
20	9	5.195	6.039	0.844
20	10	5.190	6.110	0.920
35	11	5.273	6.195	0.922
35	12	5.211	6.160	0.949
35	13	5.246	6.243	0.997
35	14	5.198	6.153	0.955
35	15	5.227	6.158	0.931
30	16	5.229	6.146	0.917
30	17	5.227	6.141	0.914
30	18	5.212	6.139	0.927
30	19	5.181	6.132	0.951
30	20	5.219	6.147	0.928
55	21	5.200	6.123	0.923
55	22	5.210	6.193	0.983
55	23	5.222	6.123	0.901
55	24	5.240	6.155	0.915
55	25	5.243	6.143	0.900
55	26	5.215	6.202	0.987
55	27	5.147	6.099	0.952
55	28	5.206	6.131	0.925
55	29	5.194	6.154	0.960
55	30	5.237	6.159	0.922
55	31	5.178	6.128	0.950
55	32	5.233	6.180	0.947
55	33	5.209	6.153	0.944
55	34	5.225	6.165	0.940
55	35	5.174	6.100	0.926
55	36	5.190	6.129	0.939
55	37	5.163	6.085	0.922
55	38	5.154	6.035	0.881
55	39	5.166	6.039	0.873
55	40	5.161	6.076	0.915
55	41	5.196	6.127	0.931
55	42	5.184	6.044	0.860
50	43	5.230	6.173	0.943
50	44	5.222	6.170	0.948
50	45	5.163	6.115	0.952
50	46	5.099	6.015	0.916
50	47	5.139	6.090	0.951
Max		5.289	6.243	0.997
Average		5.205	6.079	0.874
Min		5.099	5.197	-0.044
Std Dev		0.036	0.219	0.223

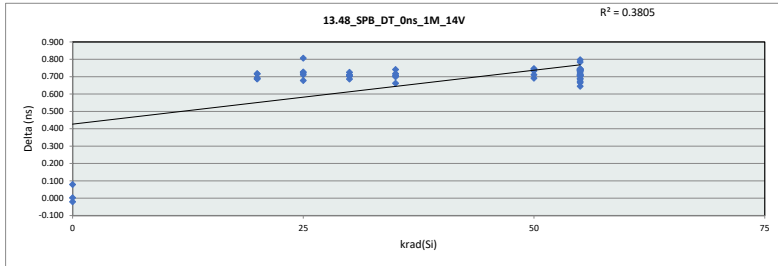
13.47_SPA_DT_0ns_1M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	11 ns							
Min Limit	5 ns							
krad(Si)		0	20	25	30	35	50	55
LL		5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min		5.197	6.039	6.065	6.132	6.153	6.015	6.035
Average		5.244	6.108	6.155	6.141	6.182	6.113	6.125
Max		5.289	6.135	6.224	6.147	6.243	6.173	6.202
UL		11.000	11.000	11.000	11.000	11.000	11.000	11.000



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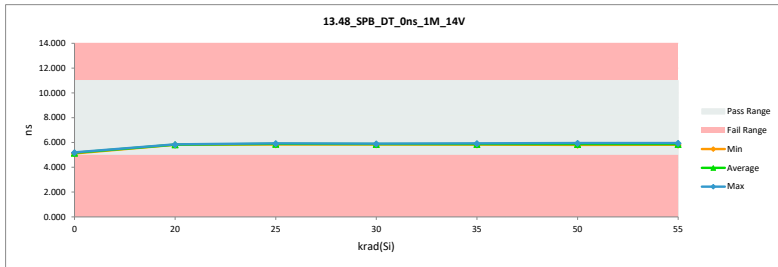
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.48_SPB_DT_0ns_1M_14V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	11
Min Limit	5



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	5.111	5.115	0.004
0	51	5.205	5.186	-0.019
0	52	5.124	5.205	0.081
25	1	5.204	5.933	0.729
25	2	5.186	5.899	0.713
25	3	5.118	5.842	0.724
25	4	5.118	5.926	0.808
25	5	5.157	5.837	0.680
20	6	5.108	5.826	0.718
20	7	5.163	5.852	0.689
20	8	5.111	5.830	0.719
20	9	5.153	5.843	0.690
20	10	5.124	5.819	0.695
35	11	5.190	5.933	0.743
35	12	5.148	5.858	0.710
35	13	5.210	5.874	0.664
35	14	5.124	5.825	0.701
35	15	5.142	5.861	0.719
30	16	5.178	5.905	0.727
30	17	5.188	5.893	0.705
30	18	5.172	5.860	0.688
30	19	5.127	5.840	0.713
30	20	5.165	5.872	0.707
55	21	5.149	5.892	0.743
55	22	5.128	5.833	0.705
55	23	5.166	5.874	0.708
55	24	5.211	5.940	0.729
55	25	5.153	5.952	0.799
55	26	5.125	5.866	0.741
55	27	5.108	5.818	0.710
55	28	5.149	5.837	0.688
55	29	5.164	5.811	0.647
55	30	5.191	5.858	0.667
55	31	5.220	5.930	0.710
55	32	5.194	5.934	0.740
55	33	5.158	5.905	0.747
55	34	5.193	5.932	0.739
55	35	5.153	5.828	0.675
55	36	5.136	5.853	0.717
55	37	5.151	5.885	0.734
55	38	5.134	5.848	0.714
55	39	5.080	5.827	0.747
55	40	5.172	5.909	0.737
55	41	5.159	5.850	0.691
55	42	5.147	5.933	0.786
50	43	5.183	5.876	0.693
50	44	5.222	5.957	0.735
50	45	5.125	5.838	0.713
50	46	5.063	5.808	0.745
50	47	5.133	5.881	0.748
	Max	5.222	5.957	0.808
	Average	5.154	5.830	0.676
	Min	5.063	5.115	-0.019
	Std Dev	0.036	0.174	0.170

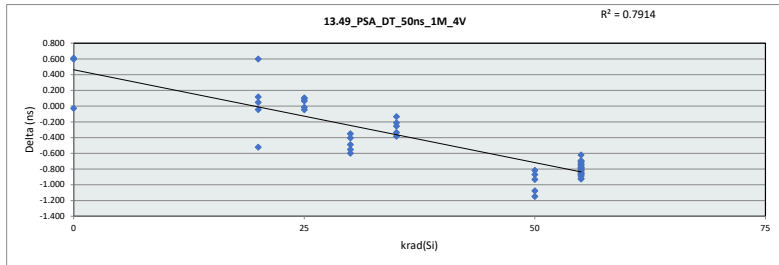
13.48_SPB_DT_0ns_1M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	11	ns						
Min Limit	5	ns						
krad(Si)								
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	5.115	5.819	5.837	5.840	5.825	5.808	5.811	5.811
Average	5.169	5.834	5.887	5.874	5.870	5.872	5.878	5.878
Max	5.205	5.852	5.933	5.905	5.933	5.957	5.952	5.952
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000



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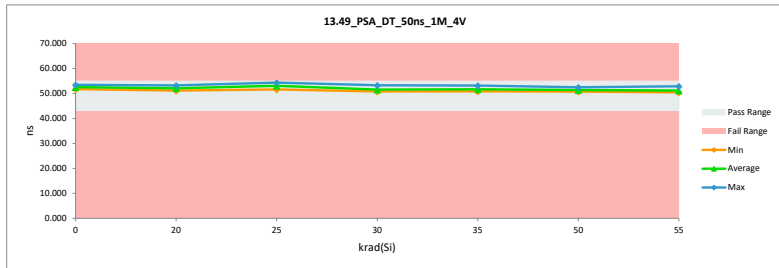
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.49_PSA_DT_50ns_1M_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	55 55
Min Limit	43 43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	52.894	53.496	0.602
0	51	51.757	52.371	0.614
0	52	51.781	51.757	-0.024
25	1	53.082	53.190	0.108
25	2	52.061	52.132	0.071
25	3	54.266	54.365	0.099
25	4	54.187	54.146	-0.041
25	5	51.637	51.626	-0.011
20	6	53.204	52.687	-0.517
20	7	51.219	51.179	-0.040
20	8	51.317	51.438	0.121
20	9	52.652	53.256	0.604
20	10	51.777	51.829	0.052
35	11	53.321	53.192	-0.129
35	12	51.099	50.890	-0.209
35	13	51.729	51.398	-0.331
35	14	51.287	51.037	-0.250
35	15	52.223	51.844	-0.379
30	16	51.673	51.325	-0.348
30	17	51.402	51.001	-0.401
30	18	51.976	51.429	-0.547
30	19	51.431	50.836	-0.595
30	20	53.774	53.290	-0.484
55	21	51.920	51.218	-0.702
55	22	51.312	50.469	-0.843
55	23	51.545	50.826	-0.719
55	24	51.919	51.135	-0.784
55	25	52.344	51.559	-0.785
55	26	51.652	50.844	-0.808
55	27	53.740	52.891	-0.849
55	28	51.500	50.759	-0.741
55	29	51.789	51.014	-0.775
55	30	52.086	51.278	-0.808
55	31	53.249	52.332	-0.917
55	32	51.668	50.797	-0.871
55	33	52.428	51.687	-0.741
55	34	51.570	50.803	-0.767
55	35	51.686	51.070	-0.616
55	36	51.689	50.822	-0.867
55	37	51.766	50.843	-0.923
55	38	52.007	51.121	-0.886
55	39	51.529	50.837	-0.692
55	40	51.170	50.478	-0.692
55	41	53.243	52.393	-0.850
55	42	51.744	50.923	-0.821
50	43	51.719	50.907	-0.812
50	44	52.484	51.619	-0.865
50	45	52.195	51.267	-0.928
50	46	51.903	50.759	-1.144
50	47	53.564	52.492	-1.072
	Max	54.266	54.365	0.614
	Average	52.143	51.657	-0.486
	Min	51.099	50.469	-1.144
	Std Dev	0.822	0.976	0.448

13.49_PSA_DT_50ns_1M_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	55	ns						
Min Limit	43	ns						
krad(Si)								
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	51.757	51.179	51.626	50.836	50.890	50.759	50.469	50.469
Average	52.541	52.078	53.092	51.576	51.672	51.409	51.186	51.186
Max	53.496	53.256	54.365	53.290	53.192	52.492	52.891	52.891
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

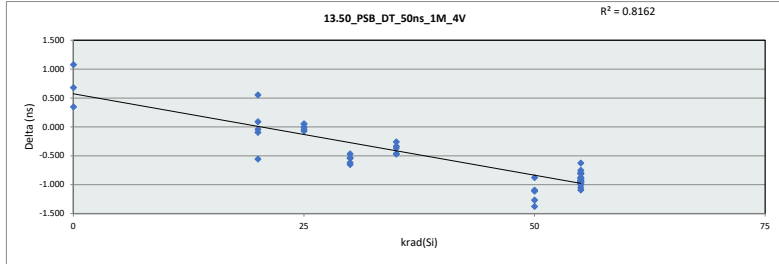


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.50_PSB_DT_50ns_1M_4V

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

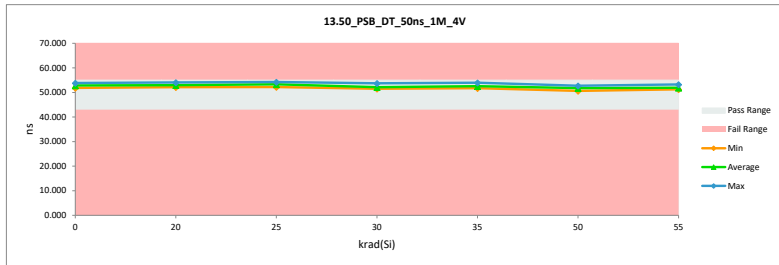


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	53.501	53.852	0.351
0	51	51.846	52.929	1.083
0	52	51.161	51.846	0.685
25	1	52.930	52.986	0.056
25	2	53.342	53.400	0.058
25	3	54.256	54.256	0.000
25	4	53.786	53.746	-0.040
25	5	52.272	52.204	-0.068
20	6	54.096	53.546	-0.550
20	7	52.320	52.230	-0.090
20	8	52.054	52.150	0.096
20	9	53.500	54.058	0.558
20	10	52.825	52.788	-0.037
35	11	54.307	53.946	-0.361
35	12	52.090	51.761	-0.329
35	13	52.634	52.379	-0.255
35	14	52.370	51.913	-0.457
35	15	53.402	52.935	-0.467
30	16	52.167	51.628	-0.539
30	17	51.968	51.506	-0.462
30	18	52.594	52.068	-0.526
30	19	52.340	51.694	-0.646
30	20	54.334	53.720	-0.614
55	21	53.028	52.227	-0.801
55	22	52.203	51.279	-0.924
55	23	52.352	51.543	-0.809
55	24	52.557	51.671	-0.886
55	25	52.633	51.835	-0.798
55	26	52.563	51.623	-0.940
55	27	54.325	53.281	-1.044
55	28	52.754	51.794	-0.960
55	29	52.977	52.015	-0.962
55	30	53.180	52.263	-0.917
55	31	53.981	52.895	-1.086
55	32	53.154	52.158	-0.996
55	33	53.371	52.419	-0.952
55	34	52.288	51.361	-0.927
55	35	52.457	51.837	-0.620
55	36	52.684	51.816	-0.868
55	37	52.202	51.415	-0.787
55	38	52.703	51.720	-0.983
55	39	52.141	51.260	-0.881
55	40	52.243	51.354	-0.889
55	41	53.787	52.834	-0.953
55	42	52.494	51.748	-0.746
50	43	52.907	52.035	-0.872
50	44	53.197	52.108	-1.089
50	45	51.740	50.633	-1.107
50	46	52.733	51.361	-1.372
50	47	54.002	52.740	-1.262
	Max	54.334	54.256	1.083
	Average	52.855	52.295	-0.560
	Min	51.161	50.633	-1.372
	Std Dev	0.756	0.857	0.527

13.50_PSB_DT_50ns_1M_4V

Test Site	
Tester	
Test Number	
Max Limit	55
Min Limit	43

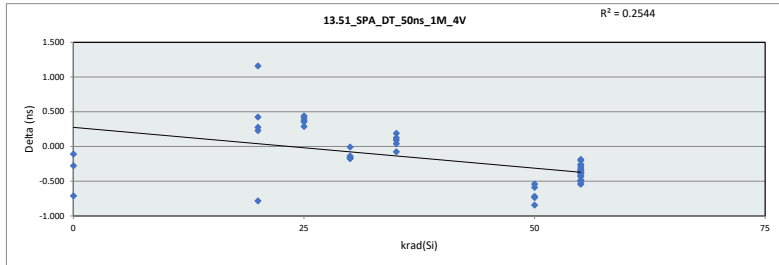
krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	51.846	52.150	52.204	51.506	51.761	50.633	51.260
Average	52.876	52.954	53.318	52.123	52.587	51.775	51.925
Max	53.852	54.058	54.256	53.720	53.946	52.740	53.281
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000



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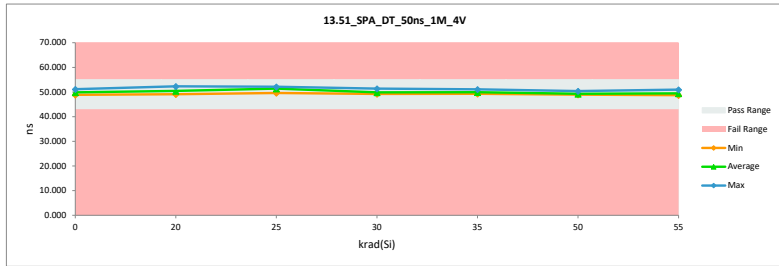
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.51_SPA_DT_50ns_1M_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	55 55
Min Limit	43 43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	51.426	51.153	-0.273
0	51	49.590	48.884	-0.706
0	52	49.695	49.590	-0.105
25	1	51.797	52.157	0.360
25	2	51.138	51.583	0.445
25	3	51.430	51.724	0.294
25	4	51.438	51.860	0.422
25	5	49.227	49.609	0.382
20	6	51.148	52.313	1.165
20	7	48.870	49.104	0.234
20	8	49.646	50.075	0.429
20	9	51.996	51.216	-0.780
20	10	49.118	49.399	0.281
35	11	51.154	51.083	-0.071
35	12	49.600	49.696	0.096
35	13	49.740	49.933	0.193
35	14	49.471	49.515	0.044
35	15	49.135	49.264	-0.129
30	16	49.349	49.216	-0.133
30	17	49.466	49.296	-0.170
30	18	50.083	49.919	-0.164
30	19	49.605	49.444	-0.161
30	20	51.367	51.363	-0.004
55	21	50.225	49.844	-0.381
55	22	49.559	49.239	-0.320
55	23	49.641	49.224	-0.417
55	24	49.648	49.449	-0.199
55	25	49.654	49.283	-0.371
55	26	49.992	49.459	-0.533
55	27	51.307	50.982	-0.325
55	28	50.122	49.755	-0.367
55	29	49.217	48.720	-0.497
55	30	49.337	48.993	-0.344
55	31	51.068	50.807	-0.261
55	32	49.431	49.250	-0.181
55	33	49.825	49.337	-0.488
55	34	49.666	49.188	-0.478
55	35	49.609	49.354	-0.255
55	36	49.232	48.941	-0.291
55	37	49.907	49.488	-0.419
55	38	49.332	48.973	-0.359
55	39	49.360	48.862	-0.498
55	40	49.311	48.772	-0.539
55	41	50.963	50.534	-0.429
55	42	49.408	49.026	-0.382
50	43	49.591	49.055	-0.536
50	44	49.713	48.982	-0.731
50	45	49.731	49.146	-0.585
50	46	49.619	48.906	-0.713
50	47	51.226	50.386	-0.840
	Max	51.996	52.313	1.165
	Average	50.024	49.827	-0.197
	Min	48.870	48.720	-0.840
	Std Dev	0.841	0.985	0.394

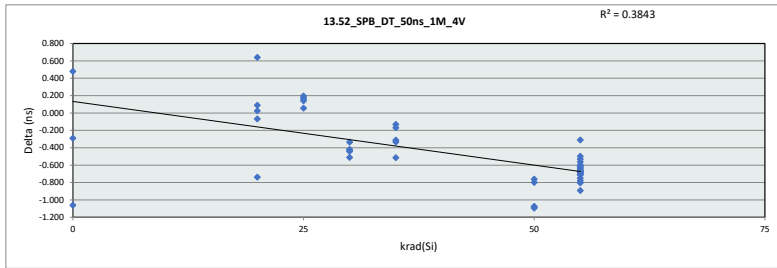
13.51_SPA_DT_50ns_1M_4V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	55	ns						
Min Limit	43	ns						
krad(Si)								
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	48.884	49.104	49.609	49.216	49.264	48.906	48.720	48.720
Average	49.876	50.421	51.387	49.848	49.898	49.295	49.431	49.431
Max	51.153	52.313	52.157	51.363	51.083	50.386	50.982	50.982
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000



**HDR TID Report
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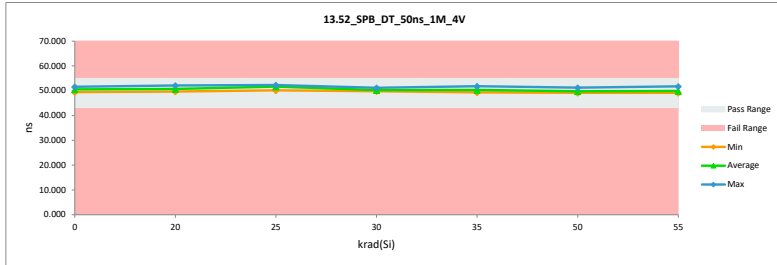
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.52_SPB_DT_50ns_1M_4V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	55 55
Min Limit	43 43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	51.901	51.613	-0.288
0	51	50.532	49.474	-1.058
0	52	50.050	50.532	0.482
25	1	52.256	52.315	0.059
25	2	51.519	51.690	0.171
25	3	51.770	51.942	0.172
25	4	52.115	52.259	0.144
25	5	49.969	50.167	0.198
20	6	51.479	52.121	0.642
20	7	50.213	50.148	-0.065
20	8	50.197	50.289	0.092
20	9	52.148	51.413	-0.735
20	10	49.653	49.681	0.028
35	11	52.358	51.847	-0.511
35	12	50.860	50.529	-0.331
35	13	50.354	50.225	-0.129
35	14	49.970	49.804	-0.166
35	15	49.641	49.332	-0.309
30	16	50.646	50.138	-0.508
30	17	50.194	49.778	-0.416
30	18	50.540	50.207	-0.333
30	19	50.571	50.133	-0.438
30	20	51.616	51.195	-0.421
55	21	50.970	50.309	-0.661
55	22	49.915	49.389	-0.526
55	23	50.119	49.423	-0.696
55	24	50.049	49.554	-0.495
55	25	49.816	49.190	-0.626
55	26	50.650	49.848	-0.802
55	27	52.001	51.254	-0.747
55	28	50.595	49.999	-0.596
55	29	50.219	49.330	-0.889
55	30	50.493	49.934	-0.559
55	31	52.491	51.804	-0.687
55	32	49.681	49.374	-0.307
55	33	50.593	49.960	-0.633
55	34	50.463	49.753	-0.710
55	35	50.550	49.900	-0.650
55	36	50.066	49.464	-0.602
55	37	50.384	49.682	-0.702
55	38	50.524	49.916	-0.608
55	39	50.071	49.294	-0.777
55	40	49.932	49.264	-0.668
55	41	51.996	51.317	-0.679
55	42	50.352	49.681	-0.671
50	43	50.330	49.571	-0.759
50	44	50.243	49.172	-1.071
50	45	50.514	49.718	-0.796
50	46	50.352	49.270	-1.082
50	47	52.351	51.260	-1.091
	Max	52.491	52.315	0.642
	Average	50.725	50.269	-0.456
	Min	49.641	49.172	-1.091
	Std Dev	0.829	0.936	0.400

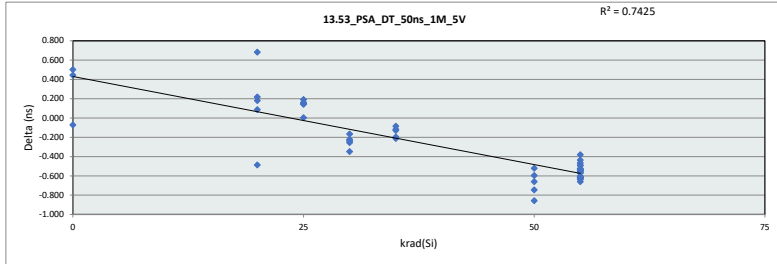
13.52_SPB_DT_50ns_1M_4V								
Test Site								
Tester								
Test Number								
Max Limit	55	ns						
Min Limit	43	ns						
krad(Si)	0	20	25	30	35	50	55	
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000	
Min	49.474	49.681	50.167	49.778	49.332	49.172	49.190	
Average	50.540	50.730	51.675	50.290	50.347	49.798	49.893	
Max	51.613	52.121	52.315	51.195	51.847	51.260	51.804	
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	



**HDR TID Report
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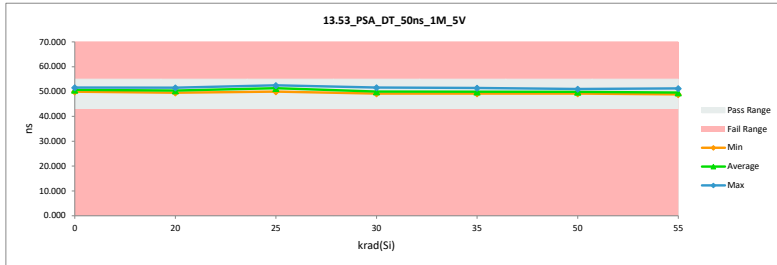
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.53_PSA_DT_50ns_1M_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	55 55
Min Limit	43 43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	51.197	51.643	0.446
0	51	49.941	50.446	0.505
0	52	50.010	49.941	-0.069
25	1	51.300	51.494	0.194
25	2	50.373	50.535	0.162
25	3	52.371	52.522	0.151
25	4	52.267	52.273	0.006
25	5	49.836	49.981	0.145
20	6	51.497	51.013	-0.484
20	7	49.450	49.540	0.090
20	8	49.491	49.711	0.220
20	9	50.872	51.557	0.685
20	10	49.888	50.071	0.183
35	11	51.554	51.472	-0.082
35	12	49.340	49.214	-0.126
35	13	49.909	49.714	-0.195
35	14	49.458	49.343	-0.115
35	15	50.265	50.056	-0.209
30	16	49.870	49.707	-0.163
30	17	49.693	49.473	-0.220
30	18	50.150	49.897	-0.253
30	19	49.563	49.217	-0.346
30	20	51.875	51.640	-0.235
55	21	50.113	49.587	-0.526
55	22	49.480	48.865	-0.615
55	23	49.750	49.286	-0.464
55	24	50.057	49.521	-0.536
55	25	50.419	49.875	-0.544
55	26	49.833	49.400	-0.433
55	27	51.884	51.251	-0.633
55	28	49.764	49.206	-0.558
55	29	49.919	49.397	-0.522
55	30	50.244	49.680	-0.564
55	31	51.492	50.873	-0.619
55	32	49.834	49.226	-0.608
55	33	50.556	50.069	-0.487
55	34	49.754	49.219	-0.535
55	35	49.875	49.497	-0.378
55	36	49.804	49.146	-0.658
55	37	49.933	49.315	-0.618
55	38	50.170	49.546	-0.624
55	39	49.764	49.221	-0.543
55	40	49.389	48.899	-0.490
55	41	51.435	50.835	-0.600
55	42	49.881	49.315	-0.566
50	43	49.912	49.393	-0.519
50	44	50.545	49.951	-0.594
50	45	50.354	49.697	-0.657
50	46	50.064	49.209	-0.855
50	47	51.783	51.041	-0.742
Max		52.371	52.522	0.685
Average		50.324	50.020	-0.304
Min		49.340	48.865	-0.855
Std Dev		0.815	0.922	0.358

13.53_PSA_DT_50ns_1M_5V							
Test Site							
Tester							
Test Number							
Max Limit	55	ns					
Min Limit	43	ns					
krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	49.941	49.540	49.981	49.217	49.214	49.209	48.865
Average	50.677	50.378	51.361	49.987	49.960	49.858	49.601
Max	51.643	51.557	52.522	51.640	51.472	51.041	51.251
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000

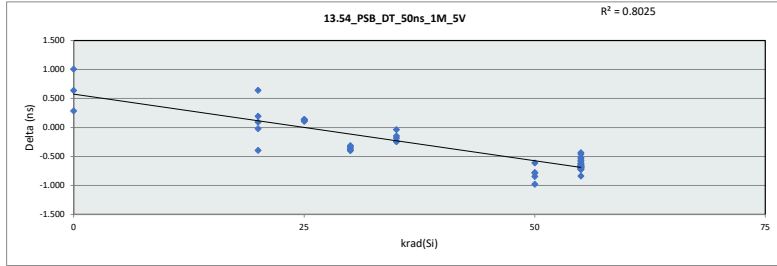


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.54_PSB_DT_50ns_1M_5V

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

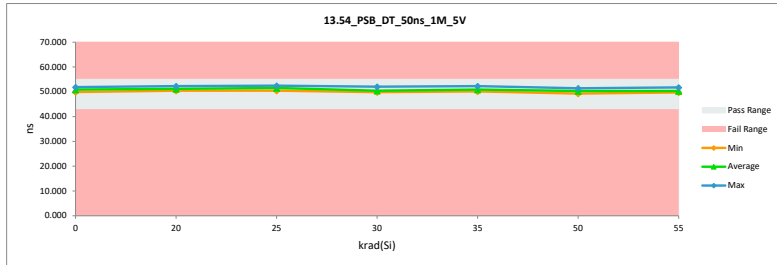


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	51.594	51.884	0.290
0	51	49.923	50.934	1.011
0	52	49.281	49.923	0.642
25	1	51.039	51.169	0.130
25	2	51.454	51.594	0.140
25	3	52.351	52.468	0.117
25	4	51.879	52.022	0.143
25	5	50.335	50.446	0.111
20	6	52.169	51.779	-0.390
20	7	50.579	50.564	-0.015
20	8	50.233	50.431	0.198
20	9	51.629	52.273	0.644
20	10	50.819	50.914	0.095
35	11	52.446	52.304	-0.142
35	12	50.315	50.136	-0.179
35	13	50.665	50.631	-0.034
35	14	50.569	50.330	-0.239
35	15	51.296	51.059	-0.237
30	16	50.244	49.914	-0.330
30	17	50.141	49.833	-0.308
30	18	50.717	50.364	-0.353
30	19	50.508	50.124	-0.384
30	20	52.429	52.033	-0.396
55	21	51.211	50.635	-0.576
55	22	50.348	49.723	-0.625
55	23	50.410	49.896	-0.514
55	24	50.611	49.999	-0.612
55	25	50.600	50.036	-0.564
55	26	50.764	50.072	-0.692
55	27	52.511	51.792	-0.719
55	28	50.931	50.277	-0.654
55	29	51.004	50.317	-0.687
55	30	51.223	50.554	-0.669
55	31	52.239	51.405	-0.834
55	32	51.157	50.439	-0.718
55	33	51.484	50.826	-0.658
55	34	50.455	49.783	-0.672
55	35	50.591	50.134	-0.457
55	36	50.805	50.184	-0.621
55	37	50.432	49.896	-0.536
55	38	50.875	50.229	-0.646
55	39	50.443	49.767	-0.676
55	40	50.485	49.783	-0.702
55	41	52.076	51.384	-0.692
55	42	50.493	50.063	-0.430
50	43	51.056	50.449	-0.607
50	44	51.326	50.544	-0.782
50	45	50.052	49.279	-0.773
50	46	50.945	49.971	-0.974
50	47	52.251	51.410	-0.841
	Max	52.511	52.468	1.011
	Average	50.988	50.640	-0.348
	Min	49.281	49.279	-0.974
	Std Dev	0.751	0.801	0.434

13.54_PSB_DT_50ns_1M_5V

Test Site	
Tester	
Test Number	
Max Limit	55 ns
Min Limit	43 ns

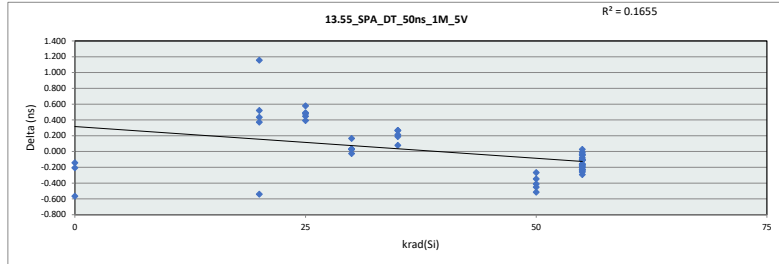
krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	49.923	50.431	50.446	49.833	50.136	49.279	49.723
Average	50.914	51.192	51.540	50.454	50.892	50.331	50.327
Max	51.884	52.273	52.468	52.033	52.304	51.410	51.792
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000



**HDR TID Report
TPS7H5005-SEP**

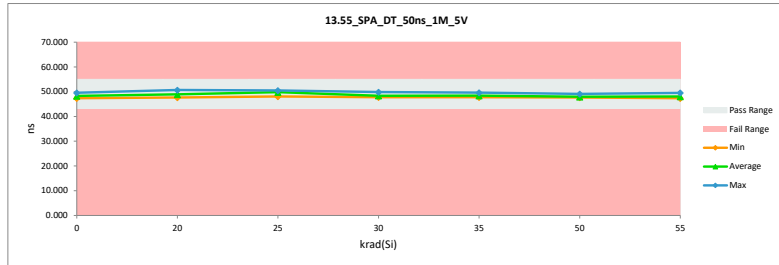
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.55_SPA_DT_50ns_1M_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	55 55
Min Limit	43 43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	49.762	49.558	-0.204
0	51	47.929	47.367	-0.562
0	52	48.068	47.929	-0.139
25	1	50.039	50.489	0.450
25	2	49.522	50.016	0.494
25	3	49.753	50.148	0.395
25	4	49.783	50.364	0.581
25	5	47.595	48.076	0.481
20	6	49.538	50.698	1.160
20	7	47.303	47.677	0.374
20	8	48.001	48.523	0.522
20	9	50.285	49.748	-0.537
20	10	47.519	47.955	0.436
35	11	49.538	49.620	0.082
35	12	47.948	48.140	0.192
35	13	48.113	48.384	0.271
35	14	47.796	48.012	0.216
35	15	47.512	47.781	0.269
30	16	47.764	47.796	0.032
30	17	47.843	47.875	0.032
30	18	48.399	48.376	-0.023
30	19	47.947	47.983	0.036
30	20	49.705	49.874	0.169
55	21	48.566	48.458	-0.108
55	22	47.915	47.882	-0.033
55	23	48.036	47.815	-0.221
55	24	48.032	48.025	-0.007
55	25	47.994	47.831	-0.163
55	26	48.363	48.073	-0.290
55	27	49.622	49.545	-0.077
55	28	48.456	48.302	-0.154
55	29	47.584	47.389	-0.195
55	30	47.726	47.624	-0.102
55	31	49.473	49.441	-0.032
55	32	47.803	47.833	0.030
55	33	48.228	47.985	-0.243
55	34	48.047	47.853	-0.194
55	35	47.944	47.898	-0.046
55	36	47.606	47.506	-0.100
55	37	48.275	48.099	-0.176
55	38	47.753	47.646	-0.107
55	39	47.782	47.553	-0.229
55	40	47.735	47.478	-0.257
55	41	49.382	49.158	-0.224
55	42	47.829	47.670	-0.159
50	43	47.964	47.700	-0.264
50	44	48.075	47.628	-0.447
50	45	48.117	47.773	-0.344
50	46	48.059	47.652	-0.407
50	47	49.618	49.107	-0.511
	Max	50.285	50.698	1.160
	Average	48.393	48.386	-0.007
	Min	47.303	47.367	-0.562
	Std Dev	0.823	0.931	0.334

13.55_SPA_DT_50ns_1M_5V							
Test Site							
Tester							
Test Number							
Max Limit	55	ns					
Min Limit	43	ns					
krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	47.367	47.677	48.076	47.796	47.781	47.628	47.389
Average	48.285	48.920	49.819	48.381	48.387	47.972	48.048
Max	49.558	50.698	50.489	49.874	49.620	49.107	49.545
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000

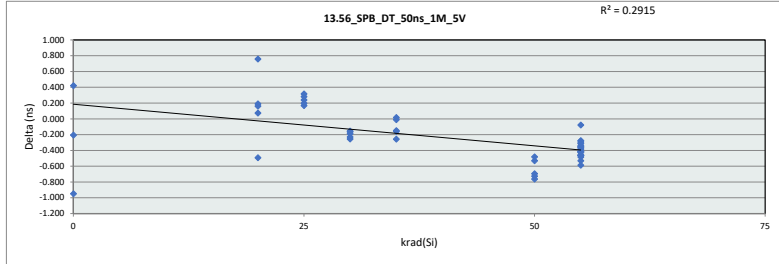


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.56_SPB_DT_50ns_1M_5V

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

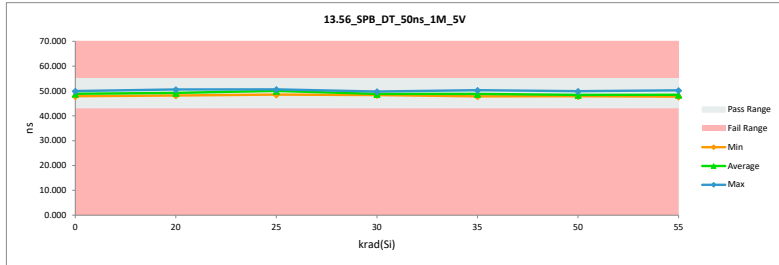


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	50.205	50.004	-0.201
0	51	48.821	47.877	-0.944
0	52	48.397	48.821	0.424
25	1	50.453	50.655	0.202
25	2	49.845	50.166	0.321
25	3	50.053	50.296	0.243
25	4	50.441	50.614	0.173
25	5	48.264	48.550	0.286
20	6	49.852	50.615	0.763
20	7	48.507	48.585	0.078
20	8	48.531	48.726	0.195
20	9	50.447	49.959	-0.488
20	10	47.998	48.164	0.166
35	11	50.585	50.333	-0.252
35	12	49.068	48.923	-0.145
35	13	48.697	48.718	0.021
35	14	48.250	48.243	-0.007
35	15	48.017	47.862	-0.155
30	16	48.915	48.689	-0.226
30	17	48.510	48.359	-0.151
30	18	48.867	48.684	-0.183
30	19	48.841	48.590	-0.251
30	20	49.940	49.780	-0.160
55	21	49.214	48.861	-0.353
55	22	48.227	47.950	-0.277
55	23	48.427	48.052	-0.375
55	24	48.410	48.110	-0.300
55	25	48.148	47.734	-0.414
55	26	48.951	48.424	-0.527
55	27	50.278	49.820	-0.458
55	28	48.943	48.590	-0.353
55	29	48.498	47.915	-0.583
55	30	48.830	48.497	-0.333
55	31	50.713	50.256	-0.457
55	32	48.015	47.941	-0.074
55	33	48.897	48.484	-0.413
55	34	48.743	48.264	-0.479
55	35	48.789	48.440	-0.349
55	36	48.373	48.065	-0.308
55	37	48.671	48.262	-0.409
55	38	48.787	48.515	-0.272
55	39	48.401	47.945	-0.456
55	40	48.283	47.824	-0.459
55	41	50.327	49.907	-0.420
55	42	48.659	48.271	-0.388
50	43	48.616	48.139	-0.477
50	44	48.600	47.879	-0.721
50	45	48.778	48.251	-0.527
50	46	48.717	47.959	-0.758
50	47	50.614	49.924	-0.690
	Max	50.713	50.655	0.763
	Average	49.028	48.790	-0.238
	Min	47.998	47.734	-0.944
	Std Dev	0.812	0.893	0.330

13.56_SPB_DT_50ns_1M_5V

Test Site	
Tester	
Test Number	
Max Limit	55
Min Limit	43

krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	47.877	48.164	48.550	48.359	47.862	47.879	47.734
Average	48.901	49.210	50.056	48.820	48.816	48.430	48.460
Max	50.004	50.615	50.655	49.780	50.333	49.924	50.256
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000

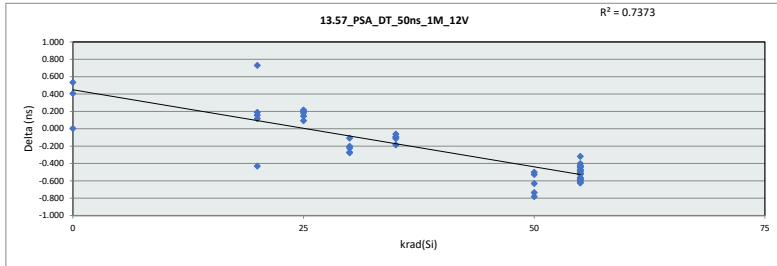


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.57_PSA_DT_50ns_1M_12V

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

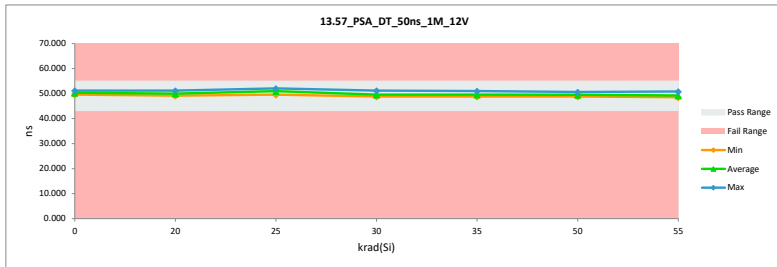


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	50.803	51.213	0.410
0	51	49.605	50.143	0.538
0	52	49.598	49.605	0.007
25	1	50.972	51.191	0.219
25	2	49.999	50.207	0.208
25	3	51.902	52.089	0.187
25	4	51.822	51.918	0.096
25	5	49.450	49.600	0.150
20	6	51.061	50.635	-0.426
20	7	49.068	49.188	0.120
20	8	49.068	49.227	0.159
20	9	50.446	51.180	0.734
20	10	49.467	49.660	0.193
35	11	51.161	51.052	-0.109
35	12	48.942	48.851	-0.091
35	13	49.505	49.414	-0.091
35	14	49.037	48.979	-0.058
35	15	49.899	49.717	-0.182
30	16	49.476	49.372	-0.104
30	17	49.351	49.152	-0.199
30	18	49.739	49.521	-0.218
30	19	49.110	48.839	-0.271
30	20	51.461	51.192	-0.269
55	21	49.787	49.313	-0.474
55	22	49.129	48.565	-0.564
55	23	49.366	48.944	-0.422
55	24	49.680	49.199	-0.481
55	25	49.993	49.475	-0.518
55	26	49.471	49.031	-0.440
55	27	51.448	50.863	-0.585
55	28	49.385	48.865	-0.520
55	29	49.509	49.013	-0.496
55	30	49.859	49.347	-0.512
55	31	51.128	50.513	-0.615
55	32	49.482	48.884	-0.598
55	33	50.115	49.679	-0.436
55	34	49.334	48.906	-0.428
55	35	49.440	49.125	-0.315
55	36	49.387	48.812	-0.575
55	37	49.562	48.942	-0.620
55	38	49.794	49.235	-0.559
55	39	49.326	48.860	-0.466
55	40	49.013	48.615	-0.398
55	41	51.046	50.468	-0.578
55	42	49.450	48.977	-0.473
50	43	49.557	49.059	-0.498
50	44	50.181	49.658	-0.523
50	45	49.954	49.327	-0.627
50	46	49.637	48.859	-0.778
50	47	51.381	50.649	-0.732
	Max	51.902	52.089	0.734
	Average	49.927	49.663	-0.265
	Min	48.942	48.565	-0.778
	Std Dev	0.807	0.904	0.349

13.57_PSA_DT_50ns_1M_12V

Test Site	
Tester	
Test Number	
Max Limit	55
Min Limit	43

krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	49.605	49.188	49.600	48.839	48.851	48.859	48.565
Average	50.320	49.978	51.001	49.615	49.603	49.510	49.256
Max	51.213	51.180	52.089	51.192	51.052	50.649	50.863
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000

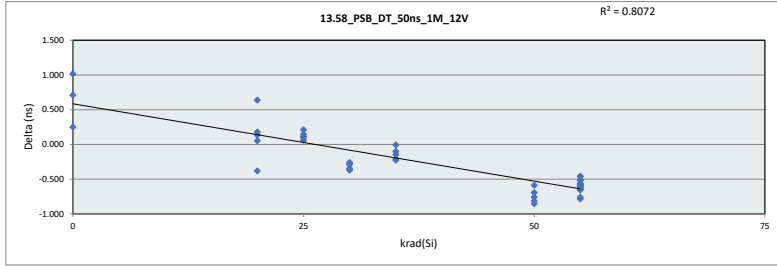


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.58_PSB_DT_50ns_1M_12V

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

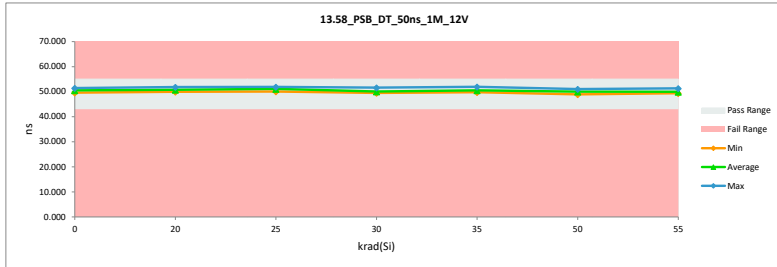


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	51.201	51.455	0.254
0	51	49.592	50.611	1.019
0	52	48.878	49.592	0.714
25	1	50.692	50.908	0.216
25	2	51.054	51.176	0.122
25	3	51.880	51.943	0.063
25	4	51.437	51.587	0.150
25	5	49.964	50.067	0.103
20	6	51.722	51.345	-0.377
20	7	50.183	50.241	0.058
20	8	49.802	49.985	0.183
20	9	51.200	51.843	0.643
20	10	50.363	50.504	0.141
35	11	52.051	51.957	-0.094
35	12	49.915	49.775	-0.140
35	13	50.259	50.256	-0.003
35	14	50.155	49.954	-0.201
35	15	50.893	50.672	-0.221
30	16	49.835	49.563	-0.272
30	17	49.782	49.527	-0.255
30	18	50.312	49.947	-0.365
30	19	50.051	49.768	-0.283
30	20	52.001	51.660	-0.341
55	21	50.879	50.256	-0.623
55	22	49.988	49.411	-0.577
55	23	50.007	49.493	-0.514
55	24	50.209	49.655	-0.554
55	25	50.176	49.673	-0.503
55	26	50.411	49.760	-0.651
55	27	52.099	51.344	-0.755
55	28	50.562	49.938	-0.624
55	29	50.575	49.949	-0.626
55	30	50.815	50.218	-0.597
55	31	51.847	51.069	-0.778
55	32	50.782	50.144	-0.638
55	33	51.010	50.440	-0.570
55	34	50.049	49.452	-0.597
55	35	50.175	49.722	-0.453
55	36	50.386	49.794	-0.592
55	37	50.066	49.556	-0.510
55	38	50.482	49.896	-0.586
55	39	50.018	49.431	-0.587
55	40	50.092	49.507	-0.585
55	41	51.674	51.098	-0.576
55	42	50.093	49.637	-0.456
50	43	50.705	50.122	-0.583
50	44	50.939	50.250	-0.689
50	45	49.686	48.933	-0.753
50	46	50.510	49.660	-0.850
50	47	51.862	51.055	-0.807
Max		52.099	51.957	1.019
Average		50.586	50.276	-0.310
Min		48.878	48.933	-0.850
Std Dev		0.742	0.778	0.419

13.58_PSB_DT_50ns_1M_12V

Test Site	
Tester	
Test Number	
Max Limit	55
Min Limit	43

krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	49.592	49.985	50.067	49.527	49.775	48.933	49.411
Average	50.553	50.784	51.136	50.093	50.523	50.004	49.975
Max	51.455	51.843	51.943	51.660	51.957	51.055	51.344
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000



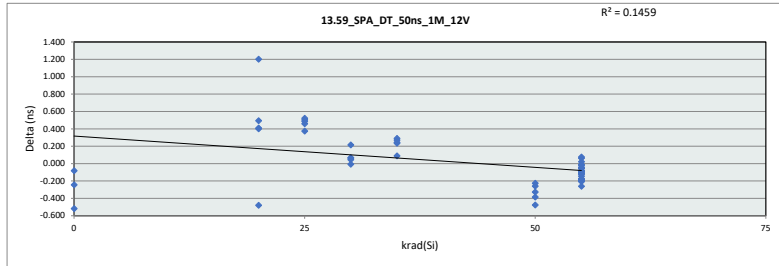
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.59_SPA_DT_50ns_1M_12V

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

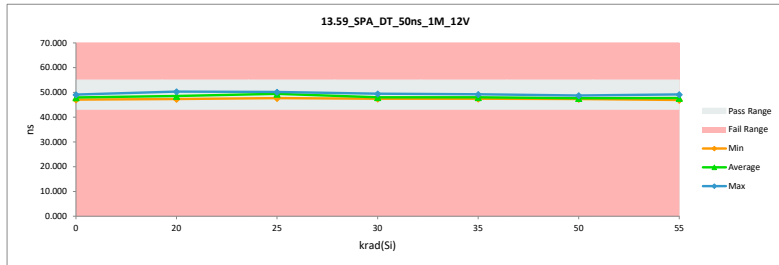
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	49.390	49.149	-0.241
0	51	47.606	47.092	-0.514
0	52	47.684	47.606	-0.078
25	1	49.712	50.202	0.490
25	2	49.140	49.647	0.507
25	3	49.339	49.716	0.377
25	4	49.388	49.913	0.525
25	5	47.244	47.706	0.462
20	6	49.134	50.339	1.205
20	7	46.933	47.346	0.413
20	8	47.603	48.100	0.497
20	9	49.887	49.411	-0.476
20	10	47.127	47.531	0.404
35	11	49.169	49.262	0.093
35	12	47.522	47.768	0.246
35	13	47.709	47.983	0.274
35	14	47.396	47.635	0.239
35	15	47.167	47.460	0.293
30	16	47.387	47.436	0.049
30	17	47.510	47.578	0.068
30	18	48.005	48.001	-0.004
30	19	47.506	47.577	0.071
30	20	49.297	49.515	0.218
55	21	48.255	48.146	-0.109
55	22	47.578	47.526	-0.052
55	23	47.654	47.474	-0.180
55	24	47.666	47.745	0.079
55	25	47.603	47.520	-0.083
55	26	48.011	47.807	-0.204
55	27	49.219	49.180	-0.039
55	28	48.090	48.014	-0.076
55	29	47.209	46.951	-0.258
55	30	47.391	47.339	-0.052
55	31	49.120	49.104	-0.016
55	32	47.461	47.527	0.066
55	33	47.805	47.624	-0.181
55	34	47.655	47.485	-0.170
55	35	47.546	47.570	0.024
55	36	47.215	47.208	-0.007
55	37	47.916	47.797	-0.119
55	38	47.405	47.302	-0.103
55	39	47.392	47.210	-0.182
55	40	47.370	47.175	-0.195
55	41	49.007	48.866	-0.141
55	42	47.451	47.359	-0.092
50	43	47.630	47.408	-0.222
50	44	47.711	47.329	-0.382
50	45	47.734	47.479	-0.255
50	46	47.641	47.317	-0.324
50	47	49.239	48.766	-0.473
Max		49.887	50.339	1.205
Average		48.017	48.044	0.027
Min		46.933	46.951	-0.514
Std Dev		0.820	0.917	0.319



13.59_SPA_DT_50ns_1M_12V

Test Site	
Tester	
Test Number	
Max Limit	55
Min Limit	43

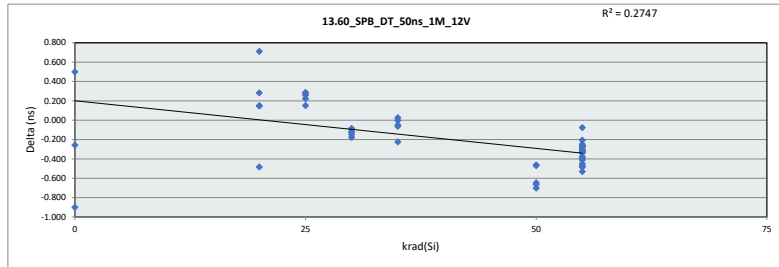
krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	47.092	47.346	47.706	47.436	47.460	47.317	46.951
Average	47.949	48.545	49.437	48.021	48.022	47.660	47.724
Max	49.149	50.339	50.202	49.515	49.262	48.766	49.180
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000



**HDR TID Report
TPS7H5005-SEP**

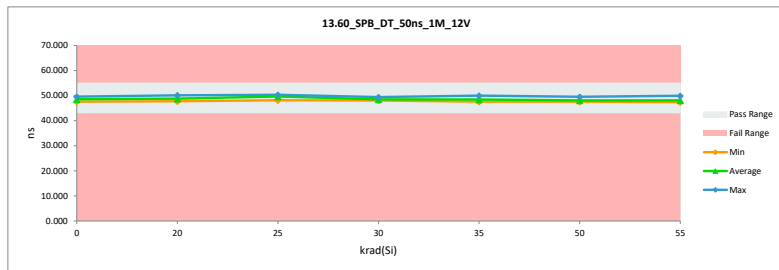
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.60_SPB_DT_50ns_1M_12V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	55
Min Limit	43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	49.844	49.591	-0.253
0	51	48.501	47.605	-0.896
0	52	47.998	48.501	0.503
25	1	50.130	50.357	0.227
25	2	49.483	49.773	0.290
25	3	49.653	49.808	0.155
25	4	50.026	50.312	0.286
25	5	47.902	48.165	0.263
20	6	49.448	50.163	0.715
20	7	48.126	48.277	0.151
20	8	48.110	48.396	0.286
20	9	50.029	49.550	-0.479
20	10	47.614	47.768	0.154
35	11	50.220	49.999	-0.221
35	12	48.649	48.589	-0.060
35	13	48.326	48.326	0.000
35	14	47.877	47.907	0.030
35	15	47.669	47.623	-0.046
30	16	48.527	48.353	-0.174
30	17	48.165	48.083	-0.082
30	18	48.484	48.362	-0.122
30	19	48.398	48.253	-0.145
30	20	49.552	49.437	-0.115
55	21	48.892	48.572	-0.320
55	22	47.888	47.685	-0.203
55	23	48.068	47.764	-0.304
55	24	48.070	47.812	-0.258
55	25	47.777	47.461	-0.316
55	26	48.609	48.126	-0.483
55	27	49.896	49.522	-0.374
55	28	48.582	48.308	-0.274
55	29	48.114	47.587	-0.527
55	30	48.466	48.198	-0.268
55	31	50.358	49.968	-0.390
55	32	47.693	47.620	-0.073
55	33	48.480	48.150	-0.330
55	34	48.345	47.876	-0.469
55	35	48.392	48.095	-0.297
55	36	47.981	47.735	-0.246
55	37	48.334	47.926	-0.408
55	38	48.429	48.168	-0.261
55	39	48.022	47.573	-0.449
55	40	47.916	47.526	-0.390
55	41	49.941	49.625	-0.316
55	42	48.272	47.938	-0.334
50	43	48.266	47.807	-0.459
50	44	48.254	47.610	-0.644
50	45	48.393	47.927	-0.466
50	46	48.314	47.616	-0.698
50	47	50.229	49.569	-0.660
	Max	50.358	50.357	0.715
	Average	48.654	48.459	-0.195
	Min	47.614	47.461	-0.896
	Std Dev	0.808	0.876	0.318

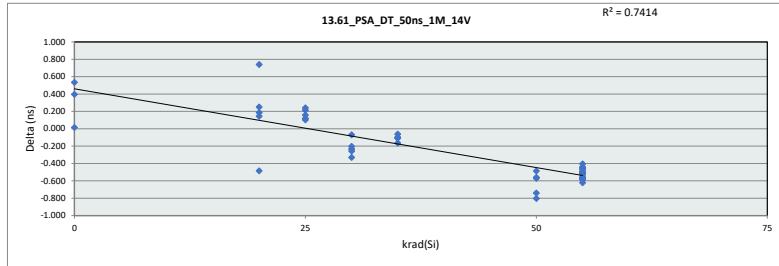
13.60_SPB_DT_50ns_1M_12V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	55	ns						
Min Limit	43	ns						
krad(Si)								
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	47.605	47.768	48.165	48.083	47.623	47.610	47.610	47.461
Average	48.566	48.831	49.683	48.498	48.489	48.106	48.147	
Max	49.591	50.163	50.357	49.437	49.999	49.569	49.968	
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000



**HDR TID Report
TPS7H5005-SEP**

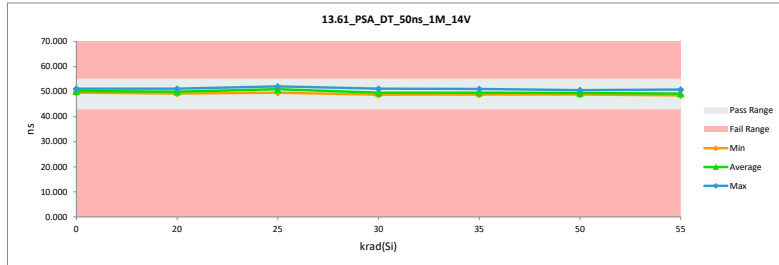
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.61_PSA_DT_50ns_1M_14V	
Test Site	
Tester	
Test Number	
Unit	ns
Max Limit	55
Min Limit	43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	50.810	51.209	0.399
0	51	49.603	50.141	0.538
0	52	49.585	49.603	0.018
25	1	50.976	51.220	0.244
25	2	50.000	50.161	0.161
25	3	51.904	52.121	0.217
25	4	51.824	51.929	0.105
25	5	49.456	49.578	0.122
20	6	51.061	50.579	-0.482
20	7	49.084	49.232	0.148
20	8	49.063	49.317	0.254
20	9	50.461	51.204	0.743
20	10	49.477	49.665	0.188
35	11	51.162	51.067	-0.095
35	12	48.936	48.877	-0.059
35	13	49.516	49.409	-0.107
35	14	49.034	48.933	-0.101
35	15	49.885	49.723	-0.162
30	16	49.467	49.400	-0.067
30	17	49.351	49.152	-0.199
30	18	49.757	49.503	-0.254
30	19	49.107	48.779	-0.328
30	20	51.432	51.203	-0.229
55	21	49.786	49.285	-0.501
55	22	49.132	48.570	-0.562
55	23	49.364	48.962	-0.402
55	24	49.681	49.188	-0.493
55	25	50.000	49.473	-0.527
55	26	49.472	49.032	-0.440
55	27	51.465	50.880	-0.585
55	28	49.397	48.838	-0.559
55	29	49.501	48.988	-0.513
55	30	49.865	49.371	-0.494
55	31	51.128	50.508	-0.620
55	32	49.478	48.919	-0.559
55	33	50.110	49.654	-0.456
55	34	49.342	48.842	-0.500
55	35	49.462	49.022	-0.440
55	36	49.392	48.817	-0.575
55	37	49.546	48.967	-0.579
55	38	49.788	49.215	-0.573
55	39	49.339	48.848	-0.491
55	40	49.007	48.540	-0.467
55	41	51.032	50.478	-0.554
55	42	49.448	48.960	-0.488
50	43	49.551	49.067	-0.484
50	44	50.176	49.619	-0.557
50	45	49.948	49.380	-0.568
50	46	49.655	48.854	-0.801
50	47	51.368	50.630	-0.738
	Max	51.904	52.121	0.743
	Average	49.928	49.658	-0.269
	Min	48.936	48.540	-0.801
	Std Dev	0.806	0.912	0.356

13.61_PSA_DT_50ns_1M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	55	ns						
Min Limit	43	ns						
krad(Si)								
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	49.603	49.232	49.578	48.779	48.877	48.854	48.540	48.540
Average	50.318	49.999	51.002	49.607	49.602	49.510	49.244	49.244
Max	51.209	51.204	52.121	51.203	51.067	50.630	50.880	50.880
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

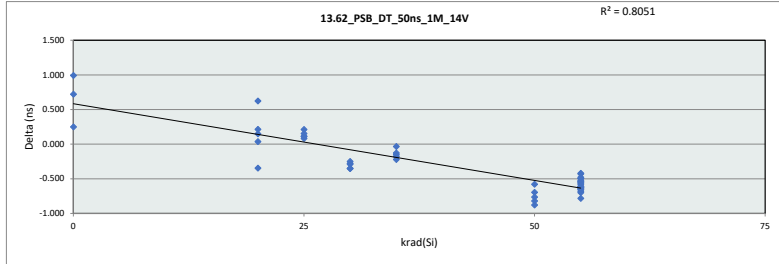


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.62_PSB_DT_50ns_1M_14V

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

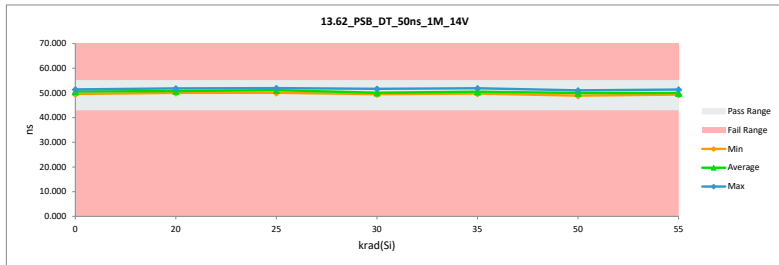


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	51.205	51.458	0.253
0	51	49.598	50.592	0.994
0	52	48.874	49.598	0.724
25	1	50.690	50.904	0.214
25	2	51.064	51.221	0.157
25	3	51.881	51.967	0.086
25	4	51.428	51.546	-0.118
25	5	49.947	50.062	-0.115
20	6	51.732	51.390	-0.342
20	7	50.171	50.211	0.040
20	8	49.813	50.029	0.216
20	9	51.198	51.824	0.626
20	10	50.363	50.516	0.153
35	11	52.057	51.909	-0.148
35	12	49.900	49.776	-0.124
35	13	50.262	50.232	-0.030
35	14	50.153	49.977	-0.176
35	15	50.884	50.666	-0.218
30	16	49.825	49.539	-0.286
30	17	49.778	49.503	-0.275
30	18	50.304	49.955	-0.349
30	19	50.049	49.803	-0.246
30	20	52.015	51.669	-0.346
55	21	50.866	50.340	-0.526
55	22	49.982	49.328	-0.654
55	23	50.010	49.534	-0.476
55	24	50.213	49.673	-0.540
55	25	50.168	49.675	-0.493
55	26	50.409	49.795	-0.614
55	27	52.103	51.408	-0.695
55	28	50.555	49.877	-0.678
55	29	50.567	50.005	-0.562
55	30	50.817	50.287	-0.530
55	31	51.840	51.061	-0.779
55	32	50.779	50.134	-0.645
55	33	50.998	50.418	-0.580
55	34	50.048	49.418	-0.630
55	35	50.163	49.745	-0.418
55	36	50.384	49.779	-0.605
55	37	50.048	49.554	-0.494
55	38	50.473	49.925	-0.548
55	39	50.015	49.399	-0.616
55	40	50.101	49.470	-0.631
55	41	51.674	51.060	-0.614
55	42	50.071	49.646	-0.425
50	43	50.693	50.117	-0.576
50	44	50.934	50.243	-0.691
50	45	49.676	48.915	-0.761
50	46	50.524	49.649	-0.875
50	47	51.875	51.058	-0.817
Max		52.103	51.967	0.994
Average		50.584	50.277	-0.306
Min		48.874	48.915	-0.875
Std Dev		0.745	0.781	0.417

13.62_PSB_DT_50ns_1M_14V

Test Site	
Tester	
Test Number	
Max Limit	55 ns
Min Limit	43 ns

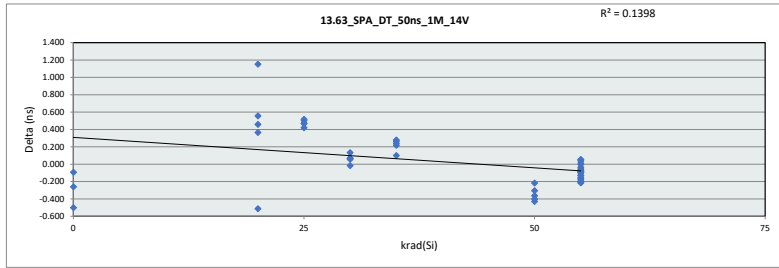
krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	49.598	50.029	50.062	49.503	49.776	48.915	49.328
Average	50.549	50.794	51.140	50.094	50.512	49.996	49.979
Max	51.458	51.824	51.967	51.669	51.909	51.058	51.408
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000



**HDR TID Report
TPS7H5005-SEP**

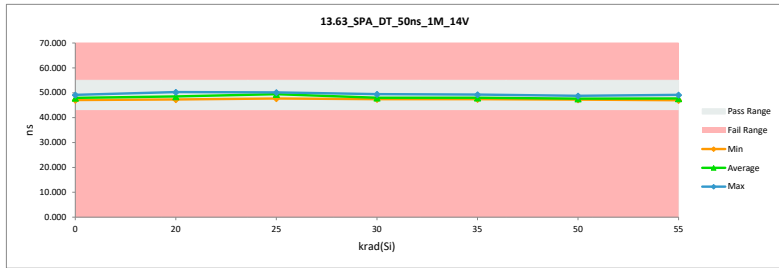
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.63_SPA_DT_50ns_1M_14V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	55 55
Min Limit	43 43



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	49.403	49.145	-0.258
0	51	47.599	47.100	-0.499
0	52	47.690	47.599	-0.091
25	1	49.700	50.170	0.470
25	2	49.136	49.642	0.506
25	3	49.337	49.760	0.423
25	4	49.384	49.903	0.519
25	5	47.225	47.696	0.471
20	6	49.128	50.282	1.154
20	7	46.941	47.309	0.368
20	8	47.589	48.147	0.558
20	9	49.896	49.386	-0.510
20	10	47.133	47.594	0.461
35	11	49.176	49.278	0.102
35	12	47.538	47.758	0.220
35	13	47.730	48.011	0.281
35	14	47.393	47.636	0.243
35	15	47.163	47.430	0.267
30	16	47.385	47.453	0.068
30	17	47.500	47.560	0.060
30	18	48.013	47.999	-0.014
30	19	47.507	47.580	0.073
30	20	49.326	49.461	0.135
55	21	48.242	48.165	-0.077
55	22	47.561	47.574	0.013
55	23	47.652	47.556	-0.096
55	24	47.663	47.704	0.041
55	25	47.602	47.548	-0.054
55	26	48.014	47.803	-0.211
55	27	49.228	49.165	-0.063
55	28	48.083	47.956	-0.127
55	29	47.205	46.996	-0.209
55	30	47.382	47.303	-0.079
55	31	49.114	49.080	-0.034
55	32	47.461	47.517	0.056
55	33	47.814	47.614	-0.200
55	34	47.650	47.488	-0.162
55	35	47.536	47.591	0.055
55	36	47.211	47.210	-0.001
55	37	47.919	47.791	-0.128
55	38	47.407	47.315	-0.092
55	39	47.384	47.208	-0.176
55	40	47.365	47.170	-0.195
55	41	49.009	48.855	-0.154
55	42	47.451	47.373	-0.078
50	43	47.609	47.394	-0.215
50	44	47.709	47.349	-0.360
50	45	47.735	47.432	-0.303
50	46	47.649	47.250	-0.399
50	47	49.210	48.783	-0.427
	Max	49.896	50.282	1.154
	Average	48.015	48.042	0.027
	Min	46.941	46.996	-0.510
	Std Dev	0.821	0.910	0.317

13.63_SPA_DT_50ns_1M_14V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	55	ns						
Min Limit	43	ns						
krad(Si)								
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	47.100	47.309	47.696	47.453	47.430	47.250	46.996	
Average	47.948	48.544	49.434	48.011	48.023	47.642	47.726	
Max	49.145	50.282	50.170	49.461	49.278	48.783	49.165	
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000



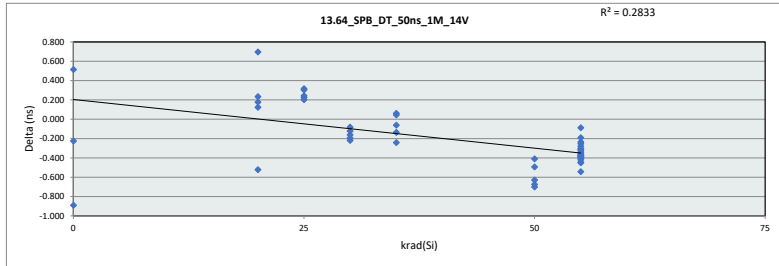
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.64_SPB_DT_50ns_1M_14V

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

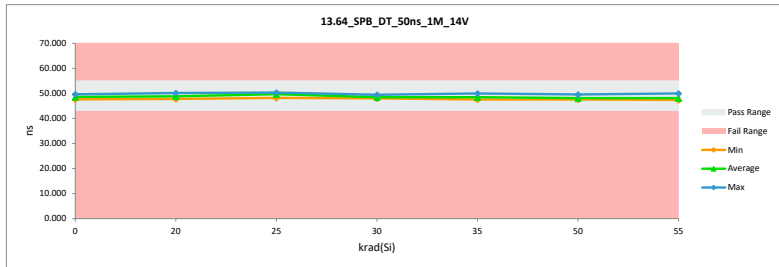
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	49.833	49.612	-0.221
0	51	48.508	47.621	-0.887
0	52	47.990	48.508	0.518
25	1	50.129	50.336	0.207
25	2	49.485	49.731	0.246
25	3	49.645	49.964	0.319
25	4	50.029	50.258	0.229
25	5	47.897	48.204	0.307
20	6	49.449	50.149	0.700
20	7	48.124	48.251	0.127
20	8	48.105	48.343	0.238
20	9	50.026	49.507	-0.519
20	10	47.618	47.799	0.181
35	11	50.223	49.985	-0.238
35	12	48.645	48.588	-0.057
35	13	48.327	48.376	0.049
35	14	47.889	47.953	0.064
35	15	47.685	47.553	-0.132
30	16	48.530	48.314	-0.216
30	17	48.165	48.046	-0.119
30	18	48.477	48.320	-0.157
30	19	48.409	48.219	-0.190
30	20	49.531	49.453	-0.078
55	21	48.893	48.594	-0.299
55	22	47.884	47.634	-0.250
55	23	48.071	47.734	-0.337
55	24	48.071	47.883	-0.188
55	25	47.780	47.411	-0.369
55	26	48.606	48.164	-0.442
55	27	49.897	49.529	-0.368
55	28	48.591	48.275	-0.316
55	29	48.114	47.575	-0.539
55	30	48.473	48.165	-0.308
55	31	50.348	49.953	-0.395
55	32	47.693	47.608	-0.085
55	33	48.482	48.125	-0.357
55	34	48.346	47.966	-0.380
55	35	48.388	48.042	-0.346
55	36	47.974	47.742	-0.232
55	37	48.329	47.942	-0.387
55	38	48.420	48.143	-0.277
55	39	48.025	47.579	-0.446
55	40	47.910	47.510	-0.400
55	41	49.952	49.537	-0.415
55	42	48.277	47.897	-0.380
50	43	48.272	47.866	-0.406
50	44	48.257	47.586	-0.671
50	45	48.382	47.892	-0.490
50	46	48.317	47.620	-0.697
50	47	50.227	49.602	-0.625
Max		50.348	50.336	0.700
Average		48.654	48.453	-0.201
Min		47.618	47.411	-0.887
Std Dev		0.806	0.876	0.320



13.64_SPB_DT_50ns_1M_14V

Test Site	
Tester	
Test Number	
Max Limit	55 ns
Min Limit	43 ns

krad(Si)	0	20	25	30	35	50	55
LL	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Min	47.621	47.799	48.204	48.046	47.553	47.586	47.411
Average	48.580	48.810	49.699	48.470	48.491	48.113	48.137
Max	49.612	50.149	50.336	49.453	49.985	49.602	49.953
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000



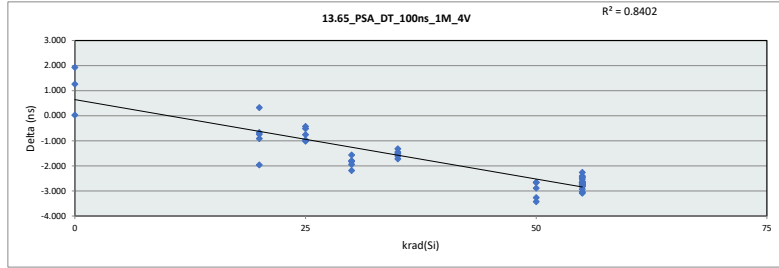
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.65_PSA_DT_100ns_1M_4V

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

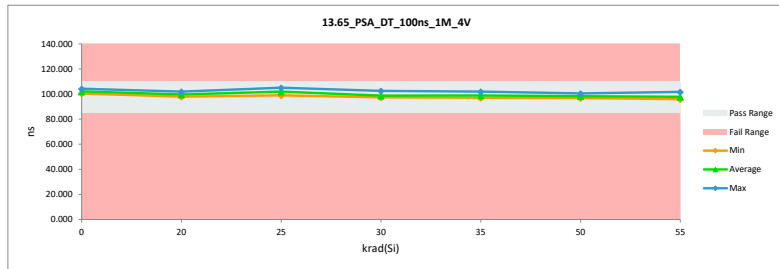
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	102.303	104.246	1.943
0	51	100.416	101.693	1.277
0	52	100.377	100.416	0.039
25	1	102.515	102.013	-0.502
25	2	100.050	99.307	-0.743
25	3	105.478	105.062	-0.416
25	4	105.545	104.542	-1.003
25	5	99.988	99.034	-0.954
20	6	102.729	100.778	-1.951
20	7	98.833	97.934	-0.899
20	8	98.984	98.326	-0.658
20	9	101.622	101.961	0.339
20	10	100.188	99.462	-0.726
35	11	103.303	101.995	-1.308
35	12	98.484	96.982	-1.502
35	13	99.772	98.182	-1.590
35	14	99.039	97.603	-1.436
35	15	101.540	99.834	-1.706
30	16	99.817	98.265	-1.552
30	17	99.235	97.423	-1.812
30	18	100.240	98.308	-1.932
30	19	99.502	97.329	-2.173
30	20	104.302	102.517	-1.785
55	21	100.403	97.750	-2.653
55	22	99.146	96.229	-2.917
55	23	99.596	96.990	-2.606
55	24	100.623	97.908	-2.715
55	25	101.519	98.871	-2.648
55	26	99.849	97.457	-2.392
55	27	104.598	101.792	-2.806
55	28	99.023	96.282	-2.741
55	29	100.436	97.698	-2.738
55	30	100.653	97.918	-2.735
55	31	102.627	99.585	-3.042
55	32	99.684	96.881	-2.803
55	33	101.784	99.270	-2.514
55	34	99.578	96.890	-2.688
55	35	99.684	97.435	-2.249
55	36	100.233	97.155	-3.078
55	37	100.363	97.336	-3.027
55	38	100.560	97.776	-2.784
55	39	99.404	96.948	-2.456
55	40	98.339	95.916	-2.423
55	41	102.802	100.161	-2.641
55	42	100.067	97.408	-2.659
50	43	99.776	97.123	-2.653
50	44	101.613	98.967	-2.646
50	45	101.084	98.209	-2.875
50	46	100.218	96.805	-3.413
50	47	103.767	100.514	-3.253
	Max	105.545	105.062	1.943
	Average	100.834	98.930	-1.904
	Min	98.339	95.916	-3.413
	Std Dev	1.767	2.237	1.168



13.65_PSA_DT_100ns_1M_4V

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	100.416	97.934	99.034	97.329	96.982	96.805	95.916
Average	102.118	99.692	101.992	98.768	98.919	98.324	97.803
Max	104.246	101.961	105.062	102.517	101.995	100.514	101.792
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



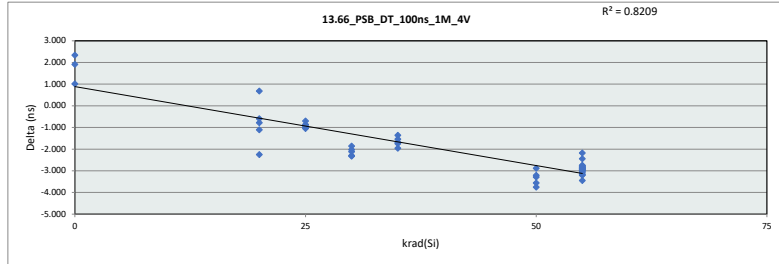
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.66_PSB_DT_100ns_1M_4V

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

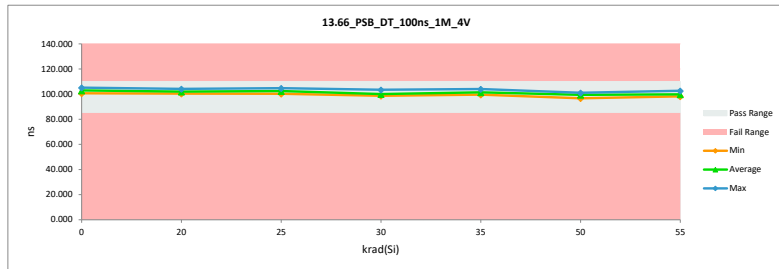
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	104.142	105.174	1.032
0	51	100.690	103.043	2.353
0	52	98.761	100.690	1.929
25	1	102.563	101.874	-0.689
25	2	103.177	102.331	-0.846
25	3	105.716	104.796	-0.920
25	4	104.175	103.207	-0.968
25	5	101.368	100.337	-1.031
20	6	104.980	102.748	-2.232
20	7	101.523	100.432	-1.091
20	8	100.977	100.400	-0.577
20	9	103.501	104.195	0.694
20	10	102.834	102.069	-0.765
35	11	105.693	104.027	-1.666
35	12	101.119	99.592	-1.527
35	13	101.972	100.630	-1.342
35	14	101.878	100.150	-1.728
35	15	104.828	102.887	-1.941
30	16	101.031	99.019	-2.012
30	17	100.485	98.640	-1.845
30	18	102.299	100.019	-2.280
30	19	101.630	99.320	-2.310
30	20	105.568	103.466	-2.102
55	21	103.265	100.433	-2.832
55	22	101.412	98.362	-3.050
55	23	101.573	98.840	-2.733
55	24	101.838	98.874	-2.964
55	25	102.329	99.546	-2.783
55	26	102.191	99.318	-2.873
55	27	105.841	102.711	-3.130
55	28	102.479	99.303	-3.176
55	29	103.253	100.323	-2.930
55	30	103.742	100.951	-2.791
55	31	104.722	101.287	-3.435
55	32	103.633	100.447	-3.186
55	33	104.360	101.404	-2.956
55	34	101.521	98.509	-3.012
55	35	101.915	99.750	-2.165
55	36	102.372	99.433	-2.939
55	37	101.409	98.670	-2.739
55	38	102.688	99.736	-2.952
55	39	101.234	98.382	-2.852
55	40	101.040	98.192	-2.848
55	41	104.273	101.393	-2.880
55	42	101.705	99.277	-2.428
50	43	102.708	99.838	-2.870
50	44	103.588	100.395	-3.193
50	45	99.963	96.692	-3.271
50	46	102.898	99.160	-3.738
50	47	104.640	101.096	-3.544
Max		105.841	105.174	2.353
Average		102.670	100.627	-2.043
Min		98.761	96.692	-3.738
Std Dev		1.611	1.885	1.360



13.66_PSB_DT_100ns_1M_4V

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	100.690	100.400	100.337	98.640	99.592	96.692	98.192
Average	102.969	101.969	102.509	100.093	101.457	99.436	99.779
Max	105.174	104.195	104.796	103.466	104.027	101.096	102.711
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



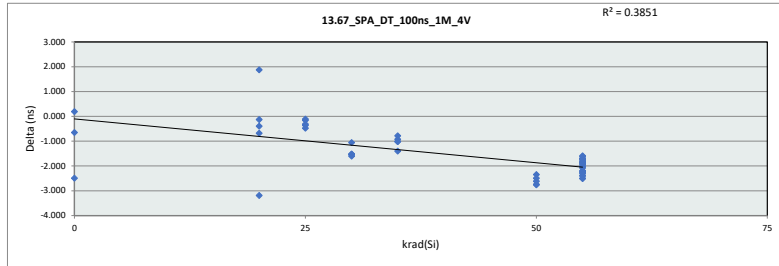
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.67_SPA_DT_100ns_1M_4V

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

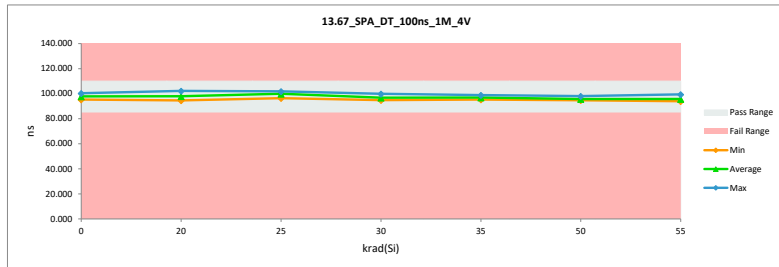
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.054	100.416	-0.638
0	51	97.810	95.328	-2.482
0	52	97.604	97.810	0.206
25	1	102.166	101.866	-0.300
25	2	100.044	99.899	-0.145
25	3	101.484	101.017	-0.467
25	4	100.733	100.632	-0.101
25	5	96.782	96.433	-0.349
20	6	100.356	102.244	1.888
20	7	95.302	94.633	-0.669
20	8	97.621	97.504	-0.117
20	9	102.596	99.418	-3.178
20	10	96.352	95.969	-0.383
35	11	100.328	98.941	-1.387
35	12	97.566	96.656	-0.910
35	13	98.065	97.290	-0.775
35	14	97.530	96.527	-1.003
35	15	96.280	95.275	-1.005
30	16	96.507	94.918	-1.589
30	17	97.366	95.845	-1.521
30	18	98.594	97.064	-1.530
30	19	97.880	96.375	-1.505
30	20	100.945	99.900	-1.045
55	21	99.065	97.064	-2.001
55	22	97.369	95.526	-1.843
55	23	97.429	95.214	-2.215
55	24	97.506	95.815	-1.691
55	25	97.708	95.785	-1.923
55	26	98.202	95.711	-2.491
55	27	101.072	99.491	-1.581
55	28	98.612	96.791	-1.821
55	29	96.368	93.990	-2.378
55	30	96.385	94.602	-1.783
55	31	100.078	98.355	-1.723
55	32	96.858	95.246	-1.612
55	33	97.872	95.577	-2.295
55	34	97.306	95.129	-2.177
55	35	97.490	95.801	-1.689
55	36	96.150	94.270	-1.880
55	37	98.923	96.667	-2.256
55	38	97.431	95.430	-2.001
55	39	97.217	94.829	-2.388
55	40	96.853	94.362	-2.491
55	41	99.519	97.515	-2.004
55	42	97.331	95.262	-2.069
50	43	97.084	94.749	-2.335
50	44	97.776	95.029	-2.747
50	45	98.445	95.966	-2.479
50	46	97.520	94.918	-2.602
50	47	100.820	98.092	-2.728
Max		102.596	102.244	1.888
Average		98.307	96.783	-1.524
Min		95.302	93.990	-3.178
Std Dev		1.732	2.118	0.963



13.67_SPA_DT_100ns_1M_4V

Test Site	
Tester	
Test Number	
Max Limit	110
Min Limit	85

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	95.328	94.633	96.433	94.918	95.275	94.749	93.990
Average	97.851	97.954	99.969	96.820	96.938	95.751	95.838
Max	100.416	102.244	101.866	99.900	98.941	98.092	99.491
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



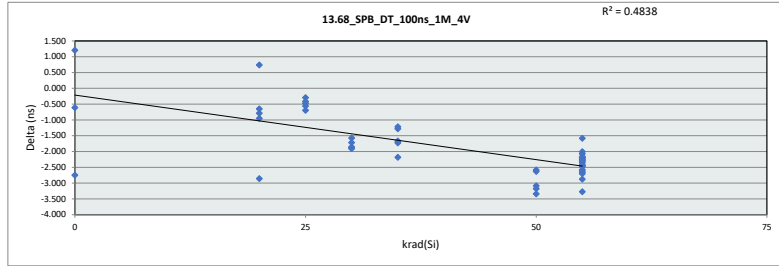
HDR TID Report TPS7H5005-SEP

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.68_SPB_DT_100ns_1M_4V

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

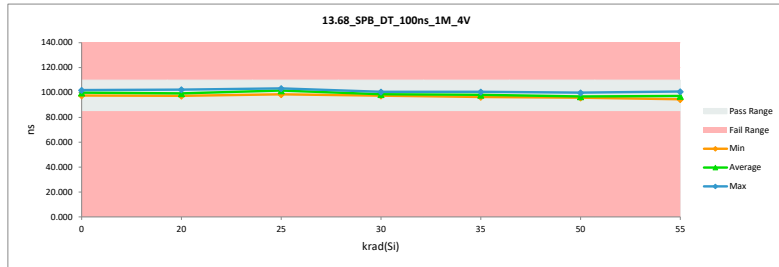
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	102.568	101.966	-0.602
0	51	100.252	97.515	-2.737
0	52	99.039	100.252	1.213
25	1	103.993	103.306	-0.687
25	2	101.742	101.455	-0.287
25	3	102.423	101.871	-0.552
25	4	103.208	102.743	-0.465
25	5	98.941	98.535	-0.406
20	6	101.612	102.362	0.750
20	7	98.684	97.740	-0.944
20	8	99.135	98.492	-0.643
20	9	103.338	100.488	-2.850
20	10	98.103	97.327	-0.776
35	11	102.785	100.611	-2.174
35	12	100.702	98.987	-1.715
35	13	99.415	98.208	-1.207
35	14	97.673	96.404	-1.269
35	15	98.054	96.395	-1.659
30	16	100.587	98.725	-1.862
30	17	99.151	97.444	-1.707
30	18	99.891	97.990	-1.901
30	19	100.287	98.439	-1.848
30	20	102.166	100.603	-1.563
55	21	100.259	97.911	-2.348
55	22	99.000	96.832	-2.168
55	23	99.185	96.758	-2.427
55	24	98.958	96.896	-2.062
55	25	98.361	96.054	-2.307
55	26	100.174	97.481	-2.693
55	27	102.365	100.107	-2.258
55	28	100.066	97.912	-2.154
55	29	98.714	95.451	-3.263
55	30	99.735	97.555	-2.180
55	31	103.373	100.769	-2.604
55	32	98.088	96.515	-1.573
55	33	99.488	97.056	-2.432
55	34	99.073	96.509	-2.564
55	35	99.404	96.938	-2.466
55	36	98.251	96.009	-2.242
55	37	99.850	97.429	-2.421
55	38	99.319	97.323	-1.996
55	39	97.848	95.199	-2.649
55	40	97.420	94.553	-2.867
55	41	101.469	99.266	-2.203
55	42	99.511	97.249	-2.262
50	43	99.046	96.424	-2.622
50	44	99.100	95.768	-3.332
50	45	98.699	96.125	-2.574
50	46	98.987	95.910	-3.077
50	47	103.059	99.894	-3.165
	Max	103.993	103.306	1.213
	Average	100.051	98.195	-1.856
	Min	97.420	94.553	-3.332
	Std Dev	1.735	2.132	0.993



13.68_SPB_DT_100ns_1M_4V

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	97.515	97.327	98.535	97.444	96.395	95.768	94.553
Average	99.911	99.282	101.582	98.640	98.121	96.824	97.171
Max	101.966	102.362	103.306	100.603	100.611	99.894	100.769
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



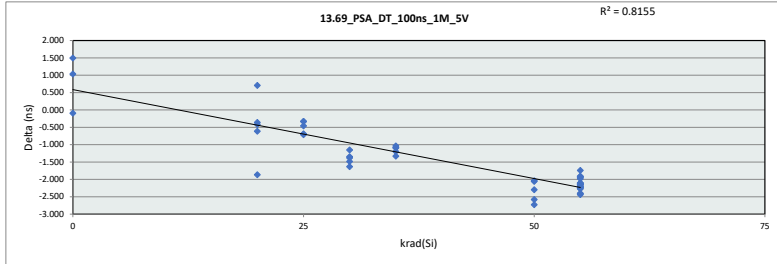
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.69_PSA_DT_100ns_1M_5V

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

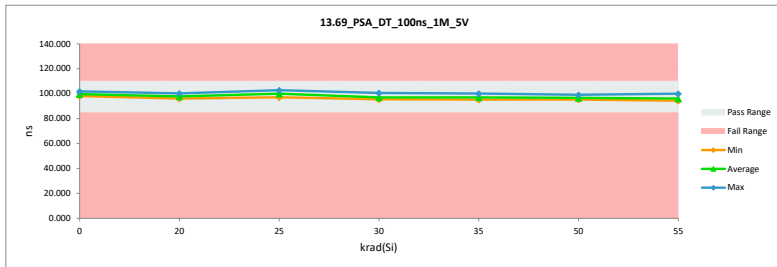
krad(Si)	Serial #	5005 Pre HDR	5005 Post HDR	Delta
0	50	100.392	101.894	1.502
0	51	98.152	99.194	1.042
0	52	98.237	98.152	-0.085
25	1	100.450	100.129	-0.321
25	2	98.162	97.713	-0.449
25	3	103.174	102.853	-0.321
25	4	103.156	102.454	-0.702
25	5	97.810	97.129	-0.681
20	6	100.816	98.958	-1.858
20	7	96.705	96.100	-0.605
20	8	96.732	96.379	-0.353
20	9	99.568	100.285	0.717
20	10	97.797	97.388	-0.409
35	11	101.140	100.112	-1.028
35	12	96.364	95.280	-1.084
35	13	97.580	96.389	-1.191
35	14	96.798	95.725	-1.073
35	15	98.977	97.655	-1.322
30	16	97.622	96.479	-1.143
30	17	97.192	95.819	-1.373
30	18	98.063	96.587	-1.476
30	19	97.137	95.514	-1.623
30	20	101.998	100.658	-1.340
55	21	98.249	96.152	-2.097
55	22	96.880	94.615	-2.265
55	23	97.401	95.429	-1.972
55	24	98.173	96.029	-2.144
55	25	99.054	96.924	-2.130
55	26	97.663	95.748	-1.915
55	27	102.234	99.988	-2.246
55	28	96.985	94.821	-2.164
55	29	98.085	95.872	-2.213
55	30	98.414	96.207	-2.207
55	31	100.658	98.229	-2.429
55	32	97.485	95.268	-2.217
55	33	99.424	97.495	-1.929
55	34	97.375	95.272	-2.103
55	35	97.514	95.783	-1.731
55	36	97.785	95.380	-2.405
55	37	98.053	95.659	-2.394
55	38	98.275	96.068	-2.207
55	39	97.324	95.400	-1.924
55	40	96.284	94.385	-1.899
55	41	100.726	98.592	-2.134
55	42	97.711	95.613	-2.098
50	43	97.575	95.544	-2.031
50	44	99.172	97.124	-2.048
50	45	98.821	96.531	-2.290
50	46	97.987	95.266	-2.721
50	47	101.735	99.163	-2.572
Max		103.174	102.853	1.502
Average		98.621	97.148	-1.473
Min		96.284	94.385	-2.721
Std Dev		1.759	2.105	0.959



13.69_PSA_DT_100ns_1M_5V

Test Site	
Tester	
Test Number	
Max Limit	110
Min Limit	85

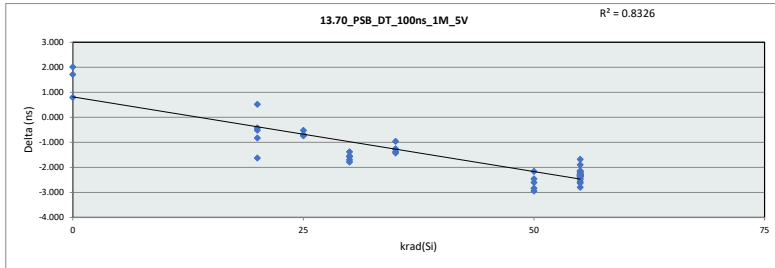
krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	98.152	96.100	97.129	95.514	95.280	95.266	94.385
Average	99.747	97.822	100.056	97.011	97.032	96.726	96.133
Max	101.894	100.285	102.853	100.658	100.112	99.163	99.988
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



**HDR TID Report
TPS7H5005-SEP**

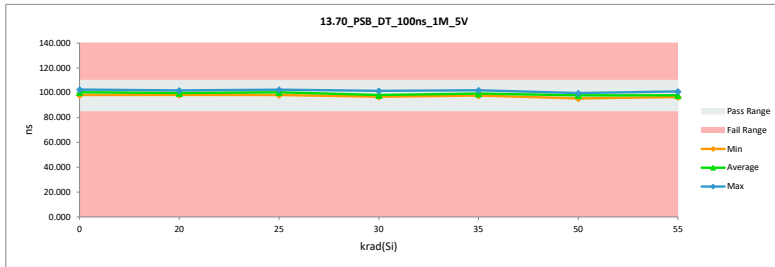
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.70_PSB_DT_100ns_1M_5V	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	110 110
Min Limit	85 85



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.728	102.538	0.810
0	51	98.194	100.215	2.021
0	52	96.472	98.194	1.722
25	1	100.210	99.701	-0.509
25	2	100.843	100.174	-0.669
25	3	103.213	102.499	-0.714
25	4	101.864	101.162	-0.702
25	5	98.846	98.126	-0.720
20	6	102.441	100.828	-1.613
20	7	99.290	98.475	-0.815
20	8	98.669	98.258	-0.411
20	9	101.332	101.862	0.530
20	10	99.979	99.475	-0.504
35	11	103.181	101.933	-1.248
35	12	98.946	97.685	-1.261
35	13	99.358	98.412	-0.946
35	14	99.477	98.110	-1.367
35	15	101.790	100.379	-1.411
30	16	98.479	96.910	-1.569
30	17	98.110	96.743	-1.367
30	18	99.891	98.116	-1.775
30	19	99.315	97.625	-1.690
30	20	103.042	101.506	-1.536
55	21	101.000	98.760	-2.240
55	22	98.918	96.604	-2.314
55	23	98.986	96.858	-2.128
55	24	99.196	96.933	-2.263
55	25	99.474	97.337	-2.137
55	26	100.012	97.695	-2.317
55	27	103.662	101.046	-2.616
55	28	100.176	97.757	-2.419
55	29	100.493	98.155	-2.338
55	30	101.060	98.783	-2.277
55	31	102.545	99.763	-2.782
55	32	100.911	98.349	-2.562
55	33	101.882	99.410	-2.472
55	34	99.190	96.879	-2.311
55	35	99.403	97.737	-1.666
55	36	99.881	97.622	-2.259
55	37	99.155	96.980	-2.175
55	38	100.323	97.981	-2.342
55	39	99.030	96.822	-2.208
55	40	98.873	96.512	-2.361
55	41	102.212	99.861	-2.351
55	42	99.038	97.154	-1.884
50	43	100.323	98.170	-2.153
50	44	101.061	98.613	-2.448
50	45	97.992	95.400	-2.592
50	46	100.442	97.510	-2.932
50	47	102.537	99.716	-2.821
	Max	103.662	102.538	2.021
	Average	100.249	98.667	-1.582
	Min	96.472	95.400	-2.932
	Std Dev	1.589	1.717	1.106

13.70_PSB_DT_100ns_1M_5V		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	110	ns						
Min Limit	85	ns						
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	98.194	98.258	98.126	96.743	97.685	95.400	96.512	
Average	100.316	99.780	100.332	98.180	99.304	97.882	97.954	
Max	102.538	101.862	102.499	101.506	101.933	99.716	101.046	
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000

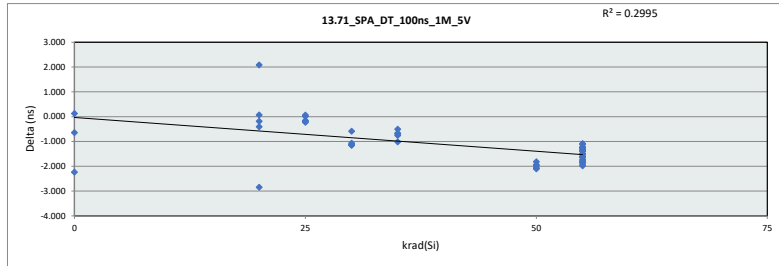


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.71_SPA_DT_100ns_1M_5V

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

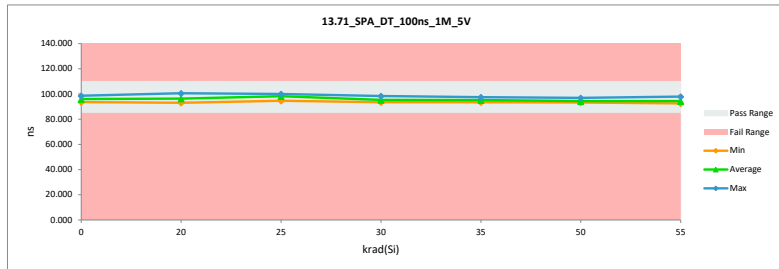


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	99.208	98.573	-0.635
0	51	95.804	93.575	-2.229
0	52	95.664	95.804	0.140
25	1	100.100	99.955	-0.145
25	2	98.260	98.283	0.023
25	3	99.540	99.324	-0.216
25	4	98.965	99.038	0.073
25	5	94.786	94.617	-0.169
20	6	98.515	100.608	2.093
20	7	93.440	93.045	-0.395
20	8	95.627	95.705	0.078
20	9	100.710	97.871	-2.839
20	10	94.418	94.244	-0.174
35	11	98.457	97.450	-1.007
35	12	95.480	94.824	-0.656
35	13	96.098	95.600	-0.498
35	14	95.432	94.685	-0.747
35	15	94.175	93.491	-0.684
30	16	94.641	93.504	-1.137
30	17	95.364	94.304	-1.060
30	18	96.511	95.388	-1.123
30	19	95.834	94.695	-1.139
30	20	99.008	98.430	-0.578
55	21	97.082	95.556	-1.526
55	22	95.371	93.987	-1.384
55	23	95.492	93.764	-1.728
55	24	95.572	94.358	-1.214
55	25	95.757	94.274	-1.483
55	26	96.272	94.299	-1.973
55	27	99.078	97.969	-1.109
55	28	96.611	95.279	-1.332
55	29	94.365	92.510	-1.855
55	30	94.400	93.118	-1.282
55	31	98.258	97.022	-1.236
55	32	94.859	93.784	-1.075
55	33	95.951	94.173	-1.778
55	34	95.336	93.696	-1.640
55	35	95.417	94.192	-1.225
55	36	94.177	92.815	-1.362
55	37	96.851	95.048	-1.803
55	38	95.491	94.006	-1.485
55	39	95.301	93.456	-1.845
55	40	94.969	93.029	-1.940
55	41	97.795	96.173	-1.622
55	42	95.462	93.864	-1.598
50	43	95.095	93.289	-1.806
50	44	95.677	93.583	-2.094
50	45	96.482	94.552	-1.930
50	46	95.557	93.585	-1.972
50	47	98.979	96.920	-2.059
Max	100.710	100.608	2.093	
Average	96.354	95.226	-1.128	
Min	93.440	92.510	-2.839	
Std Dev	1.762	2.063	0.841	

13.71_SPA_DT_100ns_1M_5V

Test Site	
Tester	
Test Number	
Max Limit	110
Min Limit	85

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	93.575	93.045	94.617	93.504	93.491	93.289	92.510
Average	95.984	96.295	98.243	95.264	95.210	94.386	94.381
Max	98.573	100.608	99.955	98.430	97.450	96.920	97.969
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



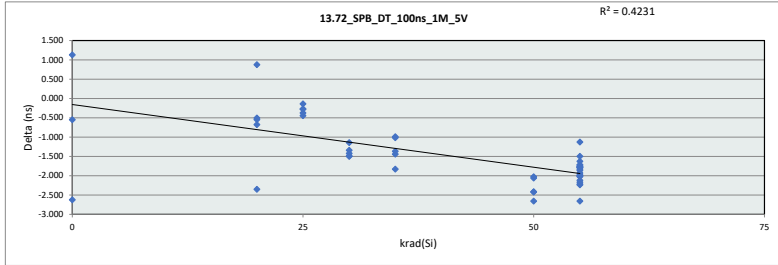
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.72_SPB_DT_100ns_1M_5V

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

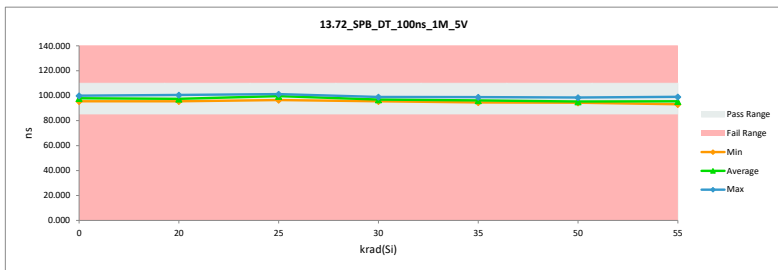
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	100.607	100.066	-0.541
0	51	98.113	95.499	-2.614
0	52	96.977	98.113	1.136
25	1	101.723	101.286	-0.437
25	2	99.756	99.626	-0.130
25	3	100.373	100.005	-0.368
25	4	101.235	100.970	-0.265
25	5	96.771	96.505	-0.266
20	6	99.742	100.623	0.881
20	7	96.523	95.853	-0.670
20	8	96.923	96.385	-0.538
20	9	101.234	98.890	-2.344
20	10	95.974	95.475	-0.499
35	11	100.668	98.847	-1.821
35	12	98.387	96.952	-1.435
35	13	97.358	96.351	-1.007
35	14	95.570	94.587	-0.983
35	15	95.917	94.558	-1.359
30	16	98.357	96.869	-1.488
30	17	96.898	95.564	-1.334
30	18	97.720	96.237	-1.483
30	19	98.028	96.613	-1.415
30	20	100.103	98.969	-1.134
55	21	98.077	96.255	-1.822
55	22	96.788	95.080	-1.708
55	23	97.062	95.139	-1.923
55	24	96.892	95.271	-1.621
55	25	96.251	94.398	-1.853
55	26	97.917	95.708	-2.209
55	27	100.275	98.557	-1.718
55	28	97.944	96.194	-1.750
55	29	96.435	93.787	-2.648
55	30	97.655	95.885	-1.770
55	31	101.142	99.149	-1.993
55	32	95.956	94.837	-1.119
55	33	97.305	95.304	-2.001
55	34	96.910	94.797	-2.113
55	35	97.167	95.152	-2.015
55	36	96.039	94.275	-1.764
55	37	97.643	95.673	-1.970
55	38	97.094	95.604	-1.490
55	39	95.821	93.661	-2.160
55	40	95.356	93.127	-2.229
55	41	99.607	97.834	-1.773
55	42	97.390	95.606	-1.784
50	43	96.813	94.793	-2.020
50	44	97.065	94.417	-2.648
50	45	96.547	94.493	-2.054
50	46	96.887	94.472	-2.415
50	47	100.961	98.555	-2.406
	Max	101.723	101.286	1.136
	Average	97.919	96.457	-1.462
	Min	95.356	93.127	-2.648
	Std Dev	1.758	2.081	0.844



13.72_SPB_DT_100ns_1M_5V

Test Site	
Tester	
Test Number	
Max Limit	110
Min Limit	85

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	95.499	95.475	96.505	95.564	94.558	94.417	93.127
Average	97.893	97.445	99.678	96.850	96.259	95.346	95.513
Max	100.066	100.623	101.286	98.969	98.847	98.555	99.149
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



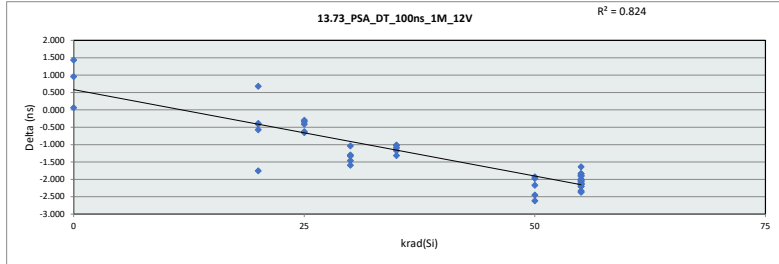
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.73_PSA_DT_100ns_1M_12V

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

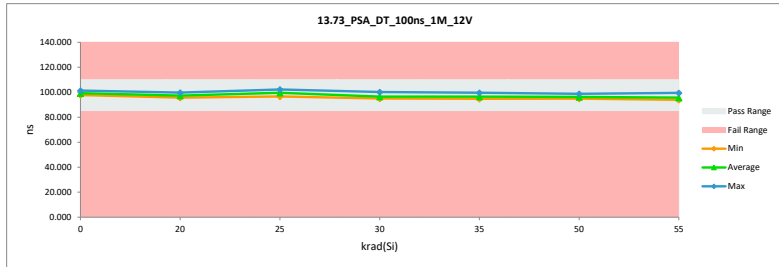
krad(Si)	Serial #	5005 Pre HDR	5005 Post HDR	Delta
0	50	99.949	101.389	1.440
0	51	97.789	98.751	0.962
0	52	97.722	97.789	0.067
25	1	100.070	99.779	-0.291
25	2	97.725	97.322	-0.403
25	3	102.580	102.244	-0.336
25	4	102.579	101.957	-0.622
25	5	97.341	96.693	-0.648
20	6	100.300	98.554	-1.746
20	7	96.260	95.695	-0.565
20	8	96.257	95.853	-0.404
20	9	99.092	99.779	0.687
20	10	97.265	96.882	-0.383
35	11	100.668	99.664	-1.004
35	12	95.886	94.797	-1.089
35	13	97.111	95.945	-1.166
35	14	96.266	95.244	-1.022
35	15	98.460	97.151	-1.309
30	16	97.138	96.108	-1.030
30	17	96.808	95.486	-1.322
30	18	97.576	96.121	-1.455
30	19	96.588	95.000	-1.588
30	20	101.453	100.162	-1.291
55	21	97.854	95.802	-2.052
55	22	96.453	94.255	-2.198
55	23	96.932	95.029	-1.903
55	24	97.689	95.656	-2.033
55	25	98.480	96.463	-2.017
55	26	97.231	95.400	-1.831
55	27	101.704	99.512	-2.192
55	28	96.590	94.467	-2.123
55	29	97.545	95.403	-2.142
55	30	97.950	95.824	-2.126
55	31	100.240	97.889	-2.351
55	32	97.025	94.905	-2.120
55	33	98.852	96.961	-1.891
55	34	96.883	94.886	-1.997
55	35	96.999	95.367	-1.632
55	36	97.274	94.951	-2.323
55	37	97.633	95.272	-2.361
55	38	97.821	95.695	-2.126
55	39	96.800	94.919	-1.881
55	40	95.801	93.975	-1.826
55	41	100.235	98.165	-2.070
55	42	97.200	95.208	-1.992
50	43	97.143	95.220	-1.923
50	44	98.683	96.717	-1.966
50	45	98.310	96.147	-2.163
50	46	97.467	94.859	-2.608
50	47	101.217	98.773	-2.444
Max		102.580	102.244	1.440
Average		98.138	96.722	-1.416
Min		95.801	93.975	-2.608
Std Dev		1.741	2.077	0.926



13.73_PSA_DT_100ns_1M_12

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	97.789	95.695	96.693	95.000	94.797	94.859	93.975
Average	99.310	97.353	99.599	96.575	96.560	96.343	95.727
Max	101.389	99.779	102.244	100.162	99.664	98.773	99.512
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



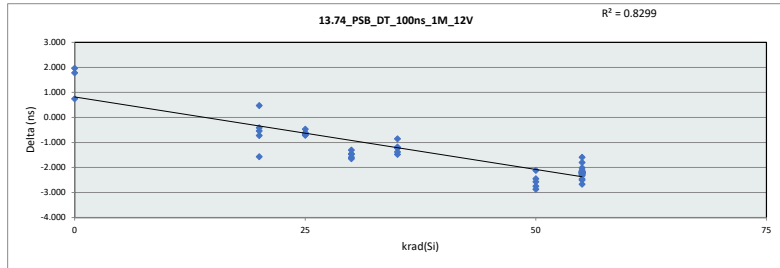
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.74_PSB_DT_100ns_1M_12V

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

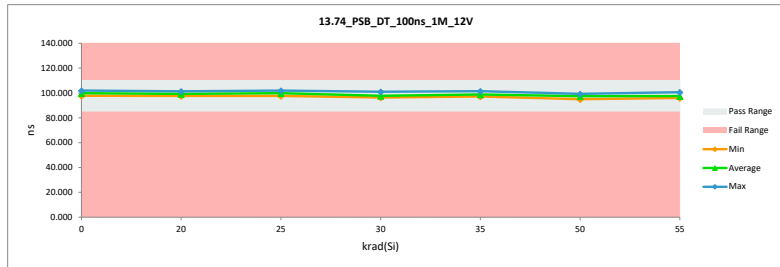
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.198	101.960	0.762
0	51	97.761	99.740	1.979
0	52	95.967	97.761	1.794
25	1	99.812	99.360	-0.452
25	2	100.312	99.711	-0.601
25	3	102.583	101.885	-0.698
25	4	101.290	100.668	-0.622
25	5	98.286	97.600	-0.686
20	6	101.878	100.321	-1.557
20	7	98.763	98.054	-0.709
20	8	98.090	97.694	-0.396
20	9	100.852	101.342	0.490
20	10	99.373	98.851	-0.522
35	11	102.632	101.465	-1.167
35	12	98.399	97.182	-1.217
35	13	98.757	97.915	-0.842
35	14	98.924	97.558	-1.366
35	15	101.213	99.749	-1.464
30	16	97.885	96.430	-1.455
30	17	97.659	96.368	-1.291
30	18	99.311	97.677	-1.634
30	19	98.699	97.124	-1.575
30	20	102.427	100.987	-1.440
55	21	100.533	98.372	-2.161
55	22	98.389	96.179	-2.210
55	23	98.466	96.371	-2.095
55	24	98.658	96.490	-2.168
55	25	98.838	96.843	-1.995
55	26	99.518	97.273	-2.245
55	27	103.103	100.659	-2.444
55	28	99.676	97.392	-2.284
55	29	99.871	97.689	-2.182
55	30	100.481	98.309	-2.172
55	31	102.069	99.415	-2.654
55	32	100.354	97.865	-2.489
55	33	101.206	98.978	-2.228
55	34	98.618	96.383	-2.235
55	35	98.772	97.196	-1.576
55	36	99.288	97.104	-2.184
55	37	98.684	96.521	-2.163
55	38	99.751	97.602	-2.149
55	39	98.484	96.309	-2.175
55	40	98.367	96.059	-2.308
55	41	101.719	99.475	-2.244
55	42	98.461	96.679	-1.782
50	43	99.826	97.727	-2.099
50	44	100.566	98.129	-2.437
50	45	97.542	94.988	-2.554
50	46	99.868	97.014	-2.854
50	47	102.043	99.311	-2.732
	Max	103.103	101.960	1.979
	Average	99.704	98.195	-1.510
	Min	95.967	94.988	-2.854
	Std Dev	1.580	1.702	1.075



13.74_PSB_DT_100ns_1M_12V

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	97.761	97.694	97.600	96.368	97.182	94.988	96.059
Average	99.820	99.252	99.845	97.717	98.774	97.434	97.507
Max	101.960	101.342	101.885	100.987	101.465	99.311	100.659
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



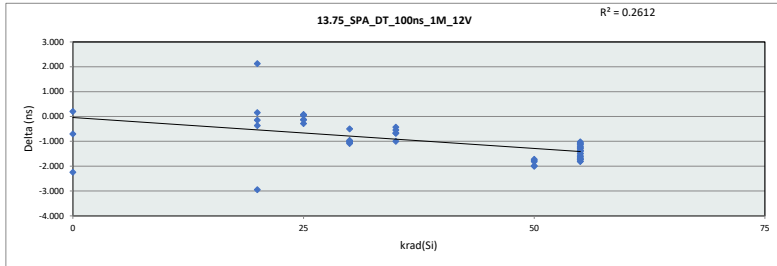
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.75_SPA_DT_100ns_1M_12V

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

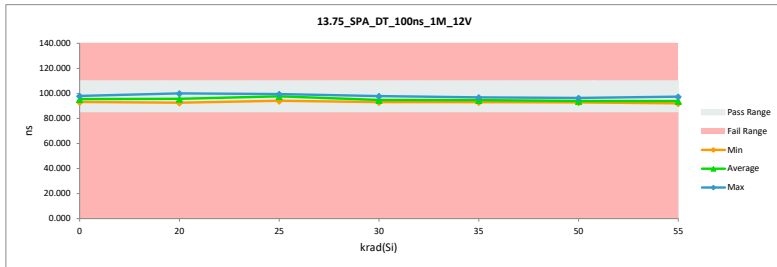
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	98.607	97.919	-0.688
0	51	95.334	93.104	-2.230
0	52	95.121	95.334	0.213
25	1	99.606	99.485	-0.121
25	2	97.670	97.762	0.092
25	3	98.868	98.594	-0.274
25	4	98.338	98.401	0.063
25	5	94.221	94.111	-0.110
20	6	97.874	100.016	2.142
20	7	92.901	92.546	-0.355
20	8	94.994	95.162	0.168
20	9	100.124	97.193	-2.931
20	10	93.802	93.669	-0.133
35	11	97.851	96.864	-0.987
35	12	94.818	94.284	-0.534
35	13	95.492	95.075	-0.417
35	14	94.796	94.141	-0.655
35	15	93.655	92.992	-0.663
30	16	94.054	92.981	-1.073
30	17	94.840	93.840	-1.000
30	18	95.877	94.854	-1.023
30	19	95.169	94.218	-0.951
30	20	98.341	97.853	-0.488
55	21	96.504	95.126	-1.378
55	22	94.806	93.541	-1.265
55	23	94.908	93.312	-1.596
55	24	94.961	93.913	-1.048
55	25	95.127	93.771	-1.356
55	26	95.677	93.882	-1.795
55	27	98.411	97.400	-1.011
55	28	96.015	94.798	-1.217
55	29	93.762	92.051	-1.711
55	30	93.852	92.648	-1.204
55	31	97.642	96.532	-1.110
55	32	94.313	93.239	-1.074
55	33	95.300	93.595	-1.705
55	34	94.736	93.158	-1.578
55	35	94.803	93.671	-1.132
55	36	93.577	92.290	-1.287
55	37	96.298	94.648	-1.650
55	38	94.916	93.539	-1.377
55	39	94.654	92.953	-1.701
55	40	94.372	92.588	-1.784
55	41	97.194	95.702	-1.492
55	42	94.900	93.435	-1.465
50	43	94.549	92.836	-1.713
50	44	95.062	93.091	-1.971
50	45	95.903	94.154	-1.749
50	46	94.913	93.112	-1.801
50	47	98.376	96.385	-1.991
Max		100.124	100.016	2.142
Average		95.758	94.715	-1.042
Min		92.901	92.051	-2.931
Std Dev		1.752	2.023	0.824



13.75_SPA_DT_100ns_1M_12V

Test Site	
Tester	
Test Number	
Max Limit	110
Min Limit	85

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	93.104	92.546	94.111	92.981	92.992	92.836	92.051
Average	95.452	95.717	97.671	94.749	94.671	93.916	93.900
Max	97.919	100.016	99.485	97.853	96.864	96.385	97.400
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



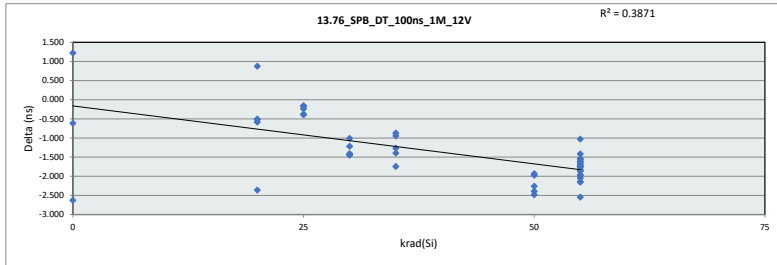
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.76_SPB_DT_100ns_1M_12V

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

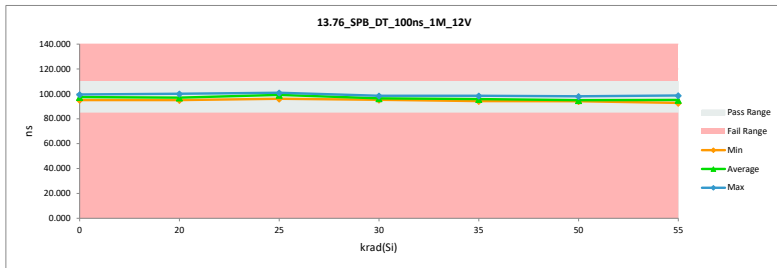
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	100.151	99.544	-0.607
0	51	97.699	95.078	-2.621
0	52	96.469	97.699	1.230
25	1	101.304	100.918	-0.386
25	2	99.277	99.130	-0.147
25	3	99.779	99.408	-0.371
25	4	100.672	100.500	-0.172
25	5	96.305	96.075	-0.230
20	6	99.240	100.126	0.886
20	7	96.056	95.479	-0.577
20	8	96.420	95.907	-0.513
20	9	100.747	98.395	-2.352
20	10	95.482	94.983	-0.499
35	11	100.202	98.466	-1.736
35	12	97.830	96.446	-1.384
35	13	96.876	95.939	-0.937
35	14	95.077	94.215	-0.862
35	15	95.430	94.171	-1.259
30	16	97.840	96.406	-1.434
30	17	96.460	95.250	-1.210
30	18	97.243	95.805	-1.438
30	19	97.486	96.086	-1.400
30	20	99.531	98.531	-1.000
55	21	97.652	95.916	-1.736
55	22	96.346	94.792	-1.554
55	23	96.575	94.826	-1.749
55	24	96.436	94.906	-1.530
55	25	95.686	93.945	-1.741
55	26	97.494	95.353	-2.141
55	27	99.734	98.124	-1.610
55	28	97.489	95.876	-1.613
55	29	95.922	93.383	-2.539
55	30	97.174	95.445	-1.729
55	31	100.674	98.703	-1.971
55	32	95.538	94.519	-1.019
55	33	96.704	94.894	-1.810
55	34	96.396	94.443	-1.953
55	35	96.635	94.778	-1.857
55	36	95.509	93.906	-1.603
55	37	97.180	95.336	-1.844
55	38	96.598	95.191	-1.407
55	39	95.316	93.276	-2.040
55	40	94.892	92.752	-2.140
55	41	99.110	97.446	-1.664
55	42	96.919	95.229	-1.690
50	43	96.377	94.411	-1.966
50	44	96.535	94.060	-2.475
50	45	96.039	94.116	-1.923
50	46	96.366	94.115	-2.251
50	47	100.462	98.080	-2.382
Max		101.304	100.918	1.230
Average		97.427	96.048	-1.379
Min		94.892	92.752	-2.621
Std Dev		1.755	2.045	0.823



13.76_SPB_DT_100ns_1M_12

Test Site	
Tester	
Test Number	
Max Limit	110
Min Limit	85

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	95.078	94.983	96.075	95.250	94.171	94.060	92.752
Average	97.440	96.978	99.206	96.416	95.847	94.956	95.138
Max	99.544	100.126	100.918	98.531	98.466	98.080	98.703
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



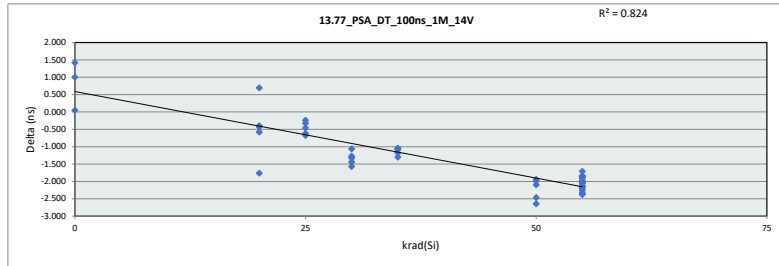
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.77_PSA_DT_100ns_1M_14V

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

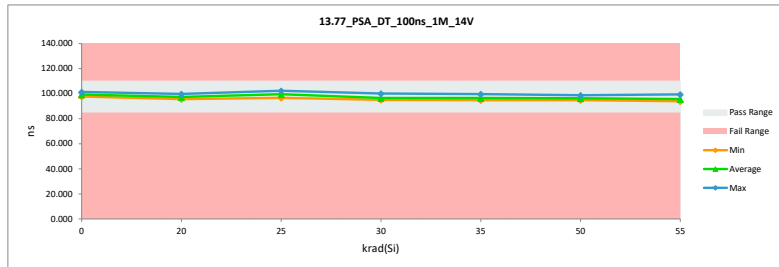
krad(Si)	Serial #	5005 Pre HDR	5005 Post HDR	Delta
0	50	99.950	101.379	1.429
0	51	97.776	98.787	1.011
0	52	97.722	97.776	0.054
25	1	100.060	99.741	-0.319
25	2	97.732	97.281	-0.451
25	3	102.583	102.354	-0.229
25	4	102.571	101.903	-0.668
25	5	97.348	96.735	-0.613
20	6	100.291	98.540	-1.751
20	7	96.255	95.684	-0.571
20	8	96.225	95.837	-0.388
20	9	99.068	99.773	0.705
20	10	97.262	96.842	-0.420
35	11	100.678	99.632	-1.046
35	12	95.884	94.813	-1.071
35	13	97.095	95.926	-1.169
35	14	96.269	95.233	-1.036
35	15	98.460	97.168	-1.292
30	16	97.132	96.075	-1.057
30	17	96.806	95.490	-1.316
30	18	97.569	96.141	-1.428
30	19	96.592	95.028	-1.564
30	20	101.435	100.170	-1.265
55	21	97.854	95.843	-2.011
55	22	96.475	94.224	-2.251
55	23	96.920	95.022	-1.898
55	24	97.678	95.647	-2.031
55	25	98.487	96.517	-1.970
55	26	97.245	95.398	-1.847
55	27	101.706	99.503	-2.203
55	28	96.556	94.436	-2.120
55	29	97.541	95.405	-2.136
55	30	97.942	95.791	-2.151
55	31	100.230	97.862	-2.368
55	32	97.029	94.889	-2.140
55	33	98.834	96.960	-1.874
55	34	96.875	94.881	-1.994
55	35	97.013	95.310	-1.703
55	36	97.242	94.918	-2.324
55	37	97.613	95.263	-2.350
55	38	97.813	95.683	-2.130
55	39	96.787	94.958	-1.829
55	40	95.807	93.958	-1.849
55	41	100.233	98.180	-2.053
55	42	97.199	95.198	-2.001
50	43	97.131	95.197	-1.934
50	44	98.678	96.698	-1.980
50	45	98.292	96.205	-2.087
50	46	97.467	94.829	-2.638
50	47	101.232	98.775	-2.457
Max		102.583	102.354	1.429
Average		98.133	96.717	-1.416
Min		95.807	93.958	-2.638
Std Dev		1.742	2.082	0.928



13.77_PSA_DT_100ns_1M_14

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	97.776	95.684	96.735	95.028	94.813	94.829	93.958
Average	99.314	97.335	99.603	96.581	96.554	96.341	95.720
Max	101.379	99.773	102.354	100.170	99.632	98.775	99.503
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000

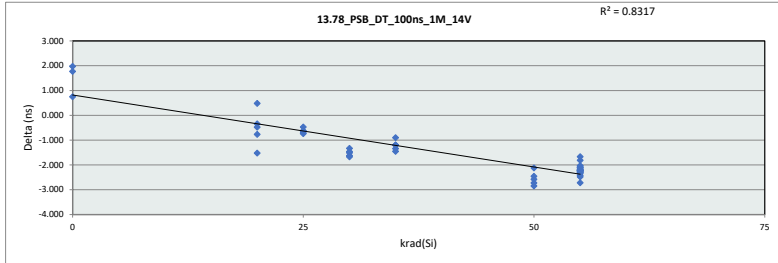


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.78_PSB_DT_100ns_1M_14V

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

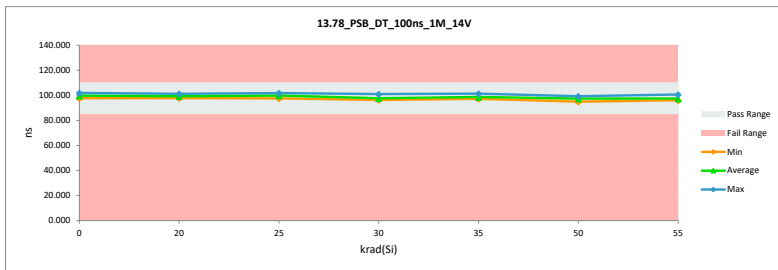


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	101.196	101.957	0.761
0	51	97.755	99.738	1.983
0	52	95.974	97.755	1.781
25	1	99.808	99.346	-0.462
25	2	100.344	99.732	-0.612
25	3	102.576	101.876	-0.700
25	4	101.292	100.671	-0.621
25	5	98.309	97.582	-0.727
20	6	101.836	100.325	-1.511
20	7	98.768	98.012	-0.756
20	8	98.109	97.774	-0.335
20	9	100.823	101.317	0.494
20	10	99.361	98.898	-0.463
35	11	102.622	101.438	-1.184
35	12	98.381	97.194	-1.187
35	13	98.774	97.884	-0.890
35	14	98.925	97.595	-1.330
35	15	101.207	99.766	-1.441
30	16	97.902	96.403	-1.499
30	17	97.648	96.328	-1.320
30	18	99.323	97.658	-1.665
30	19	98.702	97.088	-1.614
30	20	102.439	100.987	-1.452
55	21	100.542	98.330	-2.212
55	22	98.365	96.152	-2.213
55	23	98.449	96.413	-2.036
55	24	98.675	96.553	-2.122
55	25	98.844	96.819	-2.025
55	26	99.520	97.318	-2.202
55	27	103.108	100.693	-2.415
55	28	99.645	97.306	-2.339
55	29	99.871	97.669	-2.202
55	30	100.475	98.234	-2.241
55	31	102.062	99.353	-2.709
55	32	100.346	97.874	-2.472
55	33	101.225	98.941	-2.284
55	34	98.620	96.346	-2.274
55	35	98.760	97.105	-1.655
55	36	99.279	97.108	-2.171
55	37	98.680	96.587	-2.093
55	38	99.756	97.577	-2.179
55	39	98.458	96.364	-2.094
55	40	98.374	96.081	-2.293
55	41	101.725	99.486	-2.239
55	42	98.458	96.654	-1.804
50	43	99.802	97.694	-2.108
50	44	100.547	98.101	-2.446
50	45	97.550	94.980	-2.570
50	46	99.842	97.006	-2.836
50	47	102.037	99.325	-2.712
Max		103.108	101.957	1.983
Average		99.702	98.188	-1.514
Min		95.974	94.980	-2.836
Std Dev		1.578	1.701	1.076

13.78_PSB_DT_100ns_1M_14

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	97.755	97.774	97.582	96.328	97.194	94.980	96.081
Average	99.817	99.265	99.841	97.693	98.775	97.421	97.498
Max	101.957	101.317	101.876	100.987	101.438	99.325	100.693
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



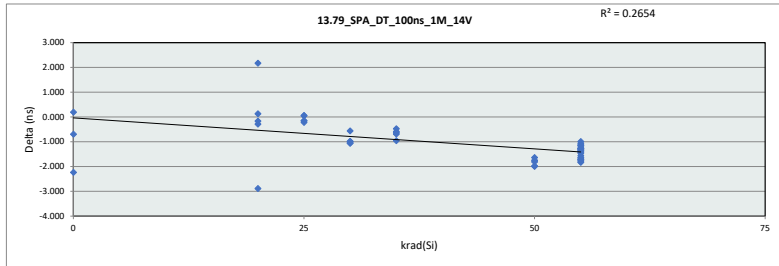
**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.79_SPA_DT_100ns_1M_14V

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

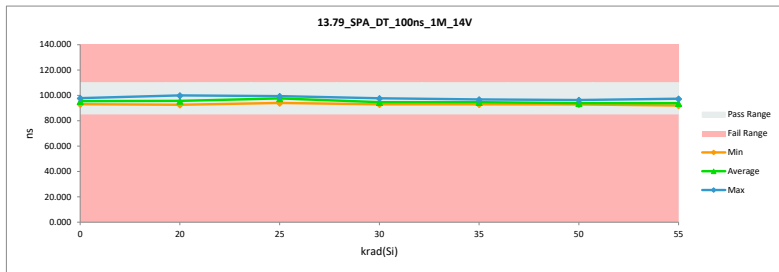
krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	98.601	97.914	-0.687
0	51	95.327	93.103	-2.224
0	52	95.120	95.327	0.207
25	1	99.590	99.455	-0.135
25	2	97.667	97.726	0.059
25	3	98.872	98.666	-0.206
25	4	98.313	98.384	0.071
25	5	94.209	94.065	-0.144
20	6	97.852	100.033	2.181
20	7	92.876	92.598	-0.278
20	8	94.974	95.113	0.139
20	9	100.088	97.214	-2.874
20	10	93.815	93.661	-0.154
35	11	97.832	96.889	-0.943
35	12	94.831	94.254	-0.577
35	13	95.490	95.026	-0.464
35	14	94.792	94.115	-0.677
35	15	93.639	93.014	-0.625
30	16	94.061	93.019	-1.042
30	17	94.828	93.859	-0.969
30	18	95.871	94.826	-1.045
30	19	95.165	94.177	-0.988
30	20	98.347	97.795	-0.552
55	21	96.500	95.129	-1.371
55	22	94.791	93.556	-1.235
55	23	94.907	93.283	-1.624
55	24	94.983	93.876	-1.107
55	25	95.095	93.752	-1.343
55	26	95.703	93.883	-1.820
55	27	98.394	97.412	-0.982
55	28	96.024	94.753	-1.271
55	29	93.765	92.039	-1.726
55	30	93.878	92.614	-1.264
55	31	97.660	96.506	-1.154
55	32	94.296	93.238	-1.058
55	33	95.285	93.638	-1.647
55	34	94.728	93.176	-1.552
55	35	94.783	93.638	-1.145
55	36	93.581	92.303	-1.278
55	37	96.289	94.579	-1.710
55	38	94.884	93.571	-1.313
55	39	94.646	92.922	-1.724
55	40	94.383	92.580	-1.803
55	41	97.181	95.730	-1.451
55	42	94.880	93.471	-1.409
50	43	94.514	92.888	-1.626
50	44	95.094	93.114	-1.980
50	45	95.905	94.167	-1.738
50	46	94.930	93.131	-1.799
50	47	98.354	96.387	-1.967
Max		100.088	100.033	2.181
Average		95.752	94.711	-1.040
Min		92.876	92.039	-2.874
Std Dev		1.749	2.020	0.820



13.79_SPA_DT_100ns_1M_14

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

krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	93.103	92.598	94.065	93.019	93.014	92.888	92.039
Average	95.448	95.724	97.659	94.735	94.660	93.937	93.893
Max	97.914	100.033	99.455	97.795	96.889	96.387	97.412
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000

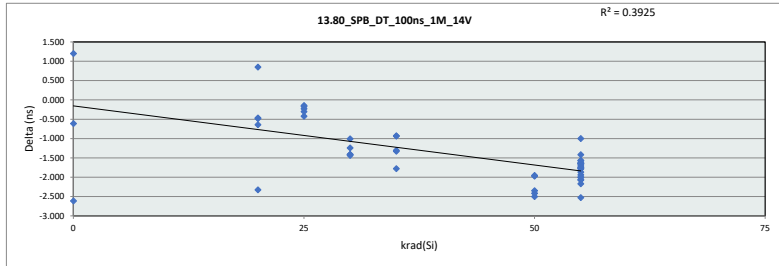


**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.80_SPB_DT_100ns_1M_14V

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

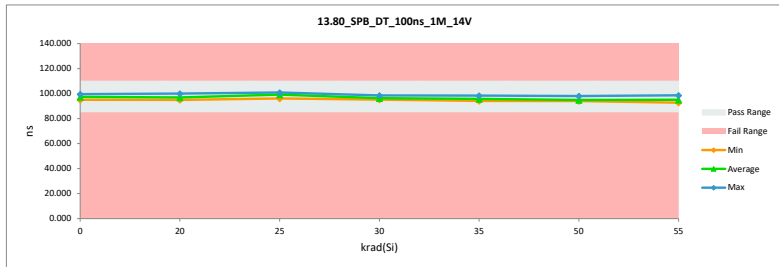


krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	100.149	99.543	-0.606
0	51	97.680	95.073	-2.607
0	52	96.473	97.680	1.207
25	1	101.308	100.894	-0.414
25	2	99.280	99.139	-0.141
25	3	99.777	99.482	-0.295
25	4	100.671	100.449	-0.222
25	5	96.279	96.116	-0.163
20	6	99.220	100.074	0.854
20	7	96.062	95.428	-0.634
20	8	96.410	95.936	-0.474
20	9	100.734	98.415	-2.319
20	10	95.459	94.998	-0.461
35	11	100.186	98.413	-1.773
35	12	97.809	96.489	-1.320
35	13	96.865	95.940	-0.925
35	14	95.068	94.142	-0.926
35	15	95.431	94.133	-1.298
30	16	97.829	96.423	-1.406
30	17	96.457	95.222	-1.235
30	18	97.222	95.792	-1.430
30	19	97.457	96.055	-1.402
30	20	99.539	98.537	-1.002
55	21	97.679	95.923	-1.756
55	22	96.336	94.776	-1.560
55	23	96.579	94.826	-1.753
55	24	96.438	94.871	-1.567
55	25	95.700	93.955	-1.745
55	26	97.470	95.403	-2.067
55	27	99.724	98.094	-1.630
55	28	97.505	95.879	-1.626
55	29	95.920	93.400	-2.520
55	30	97.156	95.524	-1.632
55	31	100.671	98.677	-1.994
55	32	95.514	94.522	-0.992
55	33	96.702	94.922	-1.780
55	34	96.381	94.450	-1.931
55	35	96.623	94.761	-1.862
55	36	95.499	93.862	-1.637
55	37	97.173	95.173	-2.000
55	38	96.607	95.197	-1.410
55	39	95.306	93.250	-2.056
55	40	94.908	92.745	-2.163
55	41	99.111	97.404	-1.707
55	42	96.904	95.235	-1.669
50	43	96.365	94.416	-1.949
50	44	96.536	94.042	-2.494
50	45	96.037	94.070	-1.967
50	46	96.367	94.023	-2.344
50	47	100.473	98.062	-2.411
	Max	101.308	100.894	1.207
	Average	97.421	96.037	-1.384
	Min	94.908	92.745	-2.607
	Std Dev	1.756	2.047	0.825

13.80_SPB_DT_100ns_1M_14

Test Site	
Tester	
Test Number	
Max Limit	110
Min Limit	85

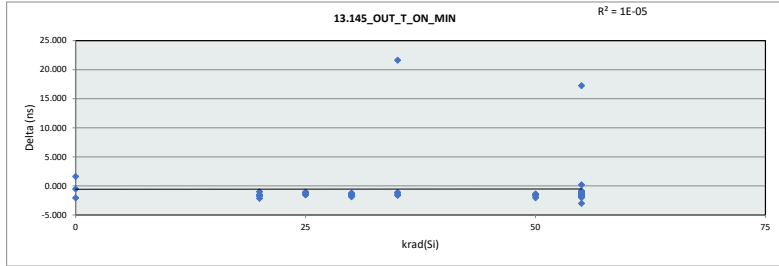
krad(Si)	0	20	25	30	35	50	55
LL	85.000	85.000	85.000	85.000	85.000	85.000	85.000
Min	95.073	94.998	96.116	95.222	94.133	94.023	92.745
Average	97.432	96.970	99.216	96.406	95.823	94.923	95.130
Max	99.543	100.074	100.894	98.537	98.413	98.062	98.677
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000



**HDR TID Report
TPS7H5005-SEP**

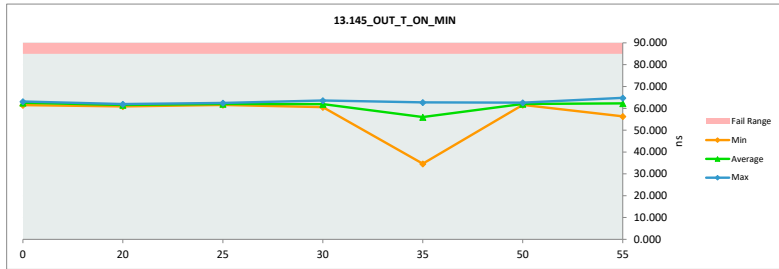
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.145_OUT_T_ON_MIN	
Test Site	
Tester	
Test Number	
Unit	ns ns
Max Limit	85 85
Min Limit	



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	63.552	63.060	-0.492
0	51	61.483	63.156	1.673
0	52	63.502	61.483	-2.019
25	1	63.297	62.294	-1.003
25	2	63.192	62.031	-1.161
25	3	63.964	62.475	-1.489
25	4	63.009	61.524	-1.485
25	5	62.998	61.769	-1.229
20	6	62.954	60.866	-2.088
20	7	63.151	61.480	-1.671
20	8	63.611	61.970	-1.641
20	9	62.550	61.586	-0.964
20	10	63.439	61.976	-1.463
35	11	63.872	62.733	-1.139
35	12	38.473	60.149	21.676
35	13	63.595	62.009	-1.586
35	14	35.725	34.653	-1.072
35	15	62.046	60.561	-1.485
30	16	62.363	60.727	-1.636
30	17	62.822	61.427	-1.395
30	18	64.742	63.569	-1.173
30	19	62.353	60.538	-1.815
30	20	64.950	63.547	-1.403
55	21	64.960	63.944	-1.016
55	22	63.075	63.306	0.231
55	23	62.729	61.368	-1.361
55	24	64.782	63.663	-1.119
55	25	63.836	62.153	-1.683
55	26	65.989	64.816	-1.173
55	27	64.052	63.248	-0.804
55	28	64.520	62.907	-1.613
55	29	63.866	62.864	-1.002
55	30	64.267	62.950	-1.317
55	31	64.328	62.726	-1.602
55	32	39.051	56.335	17.284
55	33	61.645	60.191	-1.454
55	34	64.053	62.343	-1.710
55	35	64.197	62.587	-1.610
55	36	64.009	62.722	-1.287
55	37	63.445	61.761	-1.684
55	38	64.227	62.260	-1.967
55	39	64.865	61.906	-2.959
55	40	63.594	61.900	-1.694
55	41	63.068	61.541	-1.527
55	42	63.626	62.058	-1.568
50	43	63.586	61.584	-2.002
50	44	63.917	62.356	-1.561
50	45	63.248	61.664	-1.584
50	46	63.914	62.580	-1.334
50	47	63.372	61.767	-1.605
Max		65.989	64.816	21.676
Average		62.037	61.502	-0.536
Min		35.725	34.653	-2.959
Std Dev		6.268	4.076	4.198

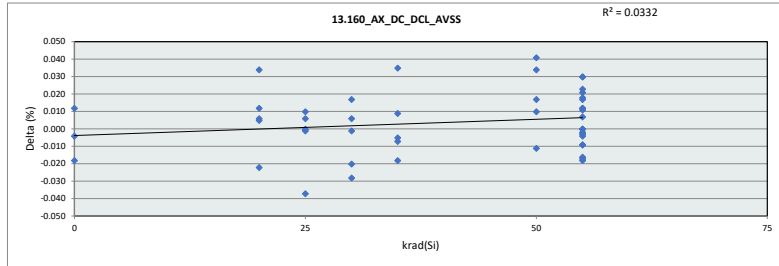
13.145_OUT_T_ON_MIN		0	20	25	30	35	50	55
Test Site								
Tester								
Test Number								
Max Limit	85	ns						
Min Limit		ns						
LL								
Min		61.483	60.866	61.524	60.538	34.653	61.584	56.335
Average		62.566	61.576	62.019	61.962	56.021	61.990	62.252
Max		63.156	61.976	62.475	63.569	62.733	62.580	64.816
UL		85.000	85.000	85.000	85.000	85.000	85.000	85.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

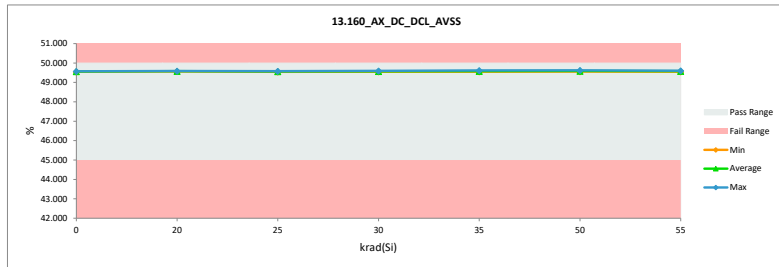
13.160_AX_DC_DCL_AVSS	
Test Site	
Tester	
Test Number	
Unit	% %
Max Limit	50 50
Min Limit	45 45



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	49.557	49.553	-0.004
0	51	49.562	49.574	0.012
0	52	49.580	49.562	-0.018
25	1	49.552	49.551	-0.001
25	2	49.584	49.584	0.000
25	3	49.569	49.575	0.006
25	4	49.582	49.545	-0.037
25	5	49.572	49.582	0.010
20	6	49.553	49.587	0.034
20	7	49.611	49.589	-0.022
20	8	49.569	49.575	0.006
20	9	49.553	49.565	0.012
20	10	49.585	49.590	0.005
35	11	49.575	49.568	-0.007
35	12	49.578	49.587	0.009
35	13	49.559	49.554	-0.005
35	14	49.593	49.575	-0.018
35	15	49.583	49.618	0.035
30	16	49.589	49.588	-0.001
30	17	49.596	49.576	-0.020
30	18	49.581	49.553	-0.028
30	19	49.591	49.597	0.006
30	20	49.554	49.571	0.017
55	21	49.588	49.584	-0.004
55	22	49.571	49.554	-0.017
55	23	49.553	49.583	0.030
55	24	49.574	49.565	-0.009
55	25	49.582	49.582	0.000
55	26	49.590	49.590	0.000
55	27	49.565	49.563	-0.002
55	28	49.584	49.601	0.017
55	29	49.584	49.575	-0.009
55	30	49.562	49.583	0.021
55	31	49.564	49.576	0.012
55	32	49.571	49.601	0.030
55	33	49.587	49.605	0.018
55	34	49.573	49.584	0.011
55	35	49.576	49.558	-0.018
55	36	49.595	49.602	0.007
55	37	49.572	49.556	-0.016
55	38	49.581	49.581	0.000
55	39	49.579	49.576	-0.003
55	40	49.584	49.607	0.023
55	41	49.578	49.590	0.012
55	42	49.574	49.572	-0.002
50	43	49.568	49.585	0.017
50	44	49.574	49.608	0.034
50	45	49.576	49.565	-0.011
50	46	49.583	49.624	0.041
50	47	49.551	49.561	0.010
Max		49.611	49.624	0.041
Average		49.575	49.579	0.004
Min		49.551	49.545	-0.037
Std Dev		0.013	0.018	0.017

13.160_AX_DC_DCL_AVSS	
Test Site	
Tester	
Test Number	
Max Limit	50 %
Min Limit	45 %

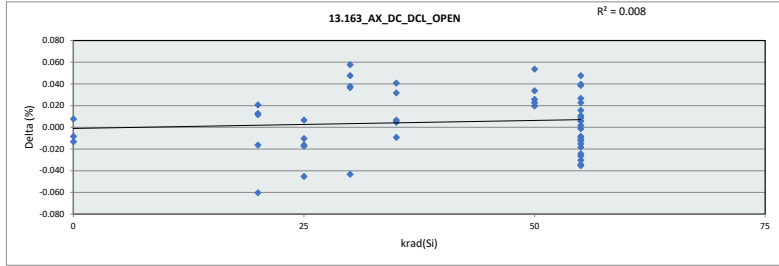
krad(Si)	0	20	25	30	35	50	55
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	49.553	49.565	49.545	49.553	49.554	49.561	49.554
Average	49.563	49.581	49.567	49.577	49.580	49.589	49.581
Max	49.574	49.590	49.584	49.597	49.618	49.624	49.607
UL	50.000	50.000	50.000	50.000	50.000	50.000	50.000



**HDR TID Report
TPS7H5005-SEP**

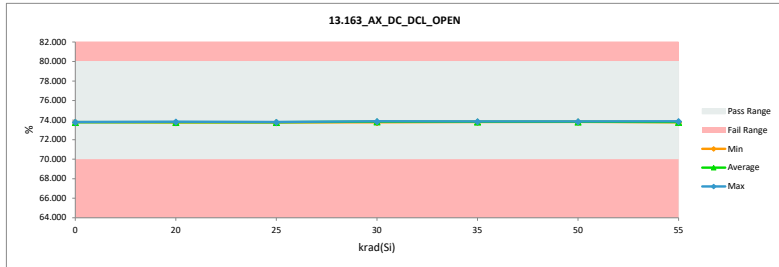
krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

13.163_AX_DC_DCL_OPEN		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	80	80
Min Limit	70	70



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	73.797	73.789	-0.008
0	51	73.796	73.804	0.008
0	52	73.809	73.796	-0.013
25	1	73.796	73.780	-0.016
25	2	73.804	73.787	-0.017
25	3	73.798	73.805	0.007
25	4	73.803	73.793	-0.010
25	5	73.815	73.770	-0.045
20	6	73.783	73.767	-0.016
20	7	73.838	73.778	-0.060
20	8	73.795	73.808	0.013
20	9	73.777	73.789	0.012
20	10	73.819	73.840	0.021
35	11	73.824	73.865	0.041
35	12	73.801	73.808	0.007
35	13	73.821	73.853	0.032
35	14	73.837	73.842	0.005
35	15	73.821	73.812	-0.009
30	16	73.824	73.781	-0.043
30	17	73.835	73.883	0.048
30	18	73.805	73.863	0.058
30	19	73.828	73.865	0.037
30	20	73.799	73.837	0.038
55	21	73.824	73.815	-0.009
55	22	73.820	73.786	-0.034
55	23	73.783	73.775	-0.008
55	24	73.810	73.780	-0.030
55	25	73.813	73.801	-0.012
55	26	73.837	73.813	-0.024
55	27	73.798	73.807	0.009
55	28	73.817	73.833	0.016
55	29	73.801	73.824	0.023
55	30	73.792	73.794	0.002
55	31	73.808	73.793	-0.015
55	32	73.774	73.822	0.048
55	33	73.811	73.850	0.039
55	34	73.807	73.789	-0.018
55	35	73.807	73.834	0.027
55	36	73.837	73.877	0.040
55	37	73.802	73.808	0.006
55	38	73.818	73.807	-0.011
55	39	73.800	73.774	-0.026
55	40	73.811	73.822	0.011
55	41	73.813	73.778	-0.035
55	42	73.809	73.808	-0.001
50	43	73.804	73.824	0.020
50	44	73.817	73.871	0.054
50	45	73.809	73.843	0.034
50	46	73.828	73.851	0.023
50	47	73.793	73.819	0.026
	Max	73.838	73.883	0.058
	Average	73.809	73.814	0.005
	Min	73.774	73.767	-0.060
	Std Dev	0.015	0.031	0.028

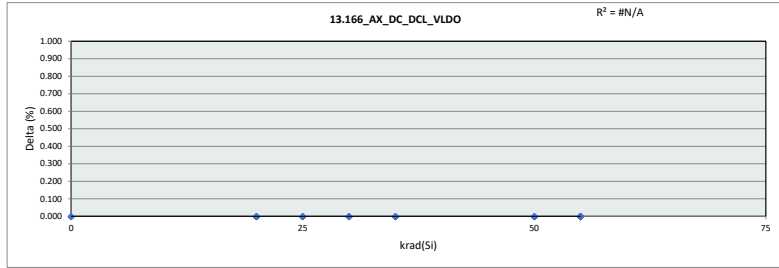
13.163_AX_DC_DCL_OPEN							
Test Site							
Tester							
Test Number							
Max Limit	80	%					
Min Limit	70	%					
krad(Si)	0	20	25	30	35	50	55
LL	70.000	70.000	70.000	70.000	70.000	70.000	70.000
Min	73.789	73.767	73.770	73.781	73.808	73.819	73.774
Average	73.796	73.796	73.787	73.846	73.836	73.842	73.809
Max	73.804	73.840	73.805	73.883	73.865	73.871	73.877
UL	80.000	80.000	80.000	80.000	80.000	80.000	80.000



**HDR TID Report
TPS7H5005-SEP**

krad(Si)	Description
20	20 krad Unbiased
25	20 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased

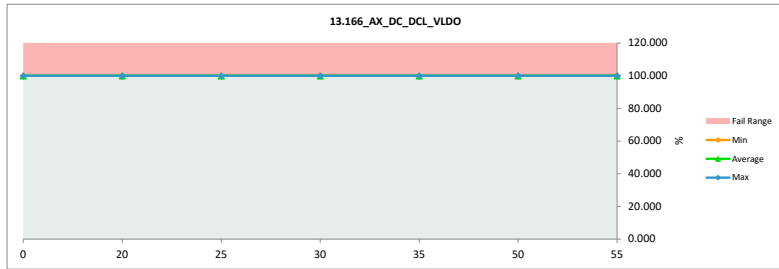
13.166_AX_DC_DCL_VLDO	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	100
Min Limit	100



krad(Si)	Serial #	5005_Pre_HDR	5005_Post_HDR	Delta
0	50	100.000	100.000	0.000
0	51	100.000	100.000	0.000
0	52	100.000	100.000	0.000
25	1	100.000	100.000	0.000
25	2	100.000	100.000	0.000
25	3	100.000	100.000	0.000
25	4	100.000	100.000	0.000
25	5	100.000	100.000	0.000
20	6	100.000	100.000	0.000
20	7	100.000	100.000	0.000
20	8	100.000	100.000	0.000
20	9	100.000	100.000	0.000
20	10	100.000	100.000	0.000
35	11	100.000	100.000	0.000
35	12	100.000	100.000	0.000
35	13	100.000	100.000	0.000
35	14	100.000	100.000	0.000
35	15	100.000	100.000	0.000
30	16	100.000	100.000	0.000
30	17	100.000	100.000	0.000
30	18	100.000	100.000	0.000
30	19	100.000	100.000	0.000
30	20	100.000	100.000	0.000
55	21	100.000	100.000	0.000
55	22	100.000	100.000	0.000
55	23	100.000	100.000	0.000
55	24	100.000	100.000	0.000
55	25	100.000	100.000	0.000
55	26	100.000	100.000	0.000
55	27	100.000	100.000	0.000
55	28	100.000	100.000	0.000
55	29	100.000	100.000	0.000
55	30	100.000	100.000	0.000
55	31	100.000	100.000	0.000
55	32	100.000	100.000	0.000
55	33	100.000	100.000	0.000
55	34	100.000	100.000	0.000
55	35	100.000	100.000	0.000
55	36	100.000	100.000	0.000
55	37	100.000	100.000	0.000
55	38	100.000	100.000	0.000
55	39	100.000	100.000	0.000
55	40	100.000	100.000	0.000
55	41	100.000	100.000	0.000
55	42	100.000	100.000	0.000
50	43	100.000	100.000	0.000
50	44	100.000	100.000	0.000
50	45	100.000	100.000	0.000
50	46	100.000	100.000	0.000
50	47	100.000	100.000	0.000
Max		100.000	100.000	0.000
Average		100.000	100.000	0.000
Min		100.000	100.000	0.000
Std Dev		0.000	0.000	0.000

13.166_AX_DC_DCL_VLDO	
Test Site	
Tester	
Test Number	
Max Limit	100 %
Min Limit	%

krad(Si)	0	20	25	30	35	50	55
LL							
Min	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Average	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Max	100.000	100.000	100.000	100.000	100.000	100.000	100.000
UL	100.000	100.000	100.000	100.000	100.000	100.000	100.000



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