Radiation Report

TPS7H5002-SP QMLP Total Ionizing Dose (TID) Report

ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for TPS7H5002-SP QMLP, Texas Instruments 4V to 14V radiation-hardness-assured, current mode, single output PWM controller optimized for DC-DC converters. The study was done to determine TID effects under high dose rate (HDR) up to 100 krad(Si). The results show that all samples passed within the specified limits up to 100 krad(Si).

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1 Device Information

1.1 Product Description

The TPS7H5002-SP QMLP is a single output radiation-tolerant PWM controller that supports buck applications and single ended isolated topologies. The controller ontains an integrated synchronous rectification output. Optimized for GaN power semiconductor based applications, the controller has configurable dead time and configurable leading edge blank time. The controller can be configured for maximum duty cycle of 75% or

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100%. As such, the DCL pin can be left floating or connected to VLDO. Connection of the DCL pin to AVSS is not permissible for this device. The TPS7H5002-SP QMLP features dead-time and leading edge blank time programmability to target high-efficiency and high-performance topologies 0.613V ±1% accurate internal reference allows design of high-current buck converters for FPGA core voltages.

The TPS7H5002-SP QMLP can be driven using an external clock through the SYNC pin or run using the internal oscillator at a frequency programmed by the user. Other programmable features include the UVLO threshold, soft start, and slope compensation. The TPS7H5002-SP QMLP 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	TPS7H5002-SP QMLP
TI Part Name	5962R1822202PYE
Package	24-pin TSSOP
Technology	LBC7
Quantity Tested	50
Lot Accept/Reject	All levels tested and passed up to 100 krad(Si)
HDR Radiation Facility	Texas Instruments - Dallas, TX
HDR Dose Level	3 krad(Si), 10 krad(Si), 30 krad(Si), 50 krad(Si), 100 krad(Si)
HDR Dose Rate	175.827 rads(Si)/s (175.824 to 175.830 rad(Si)/s)
HDR Radiation Source	Gammacell (Hopewell, GR420) Co-60
Irradiation Temperature	Ambient room temperature

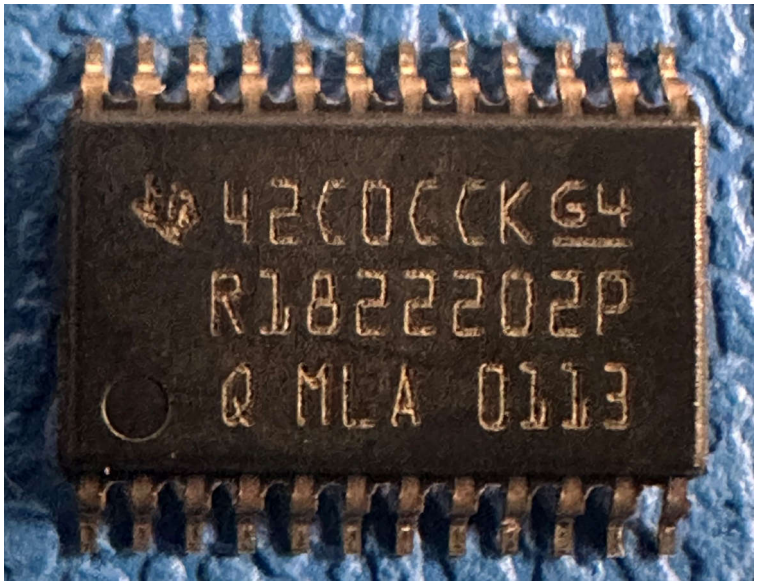

Figure 1-1. TPS7H5002-SP QMLP Device Photo

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2 Total Dose Test Setup

2.1 Test Overview

The TPS7H5002-SP QMLP 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 TPS7H5002-SP QMLP 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 175.827 rads(Si)/s (175.824 to 175.830 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.

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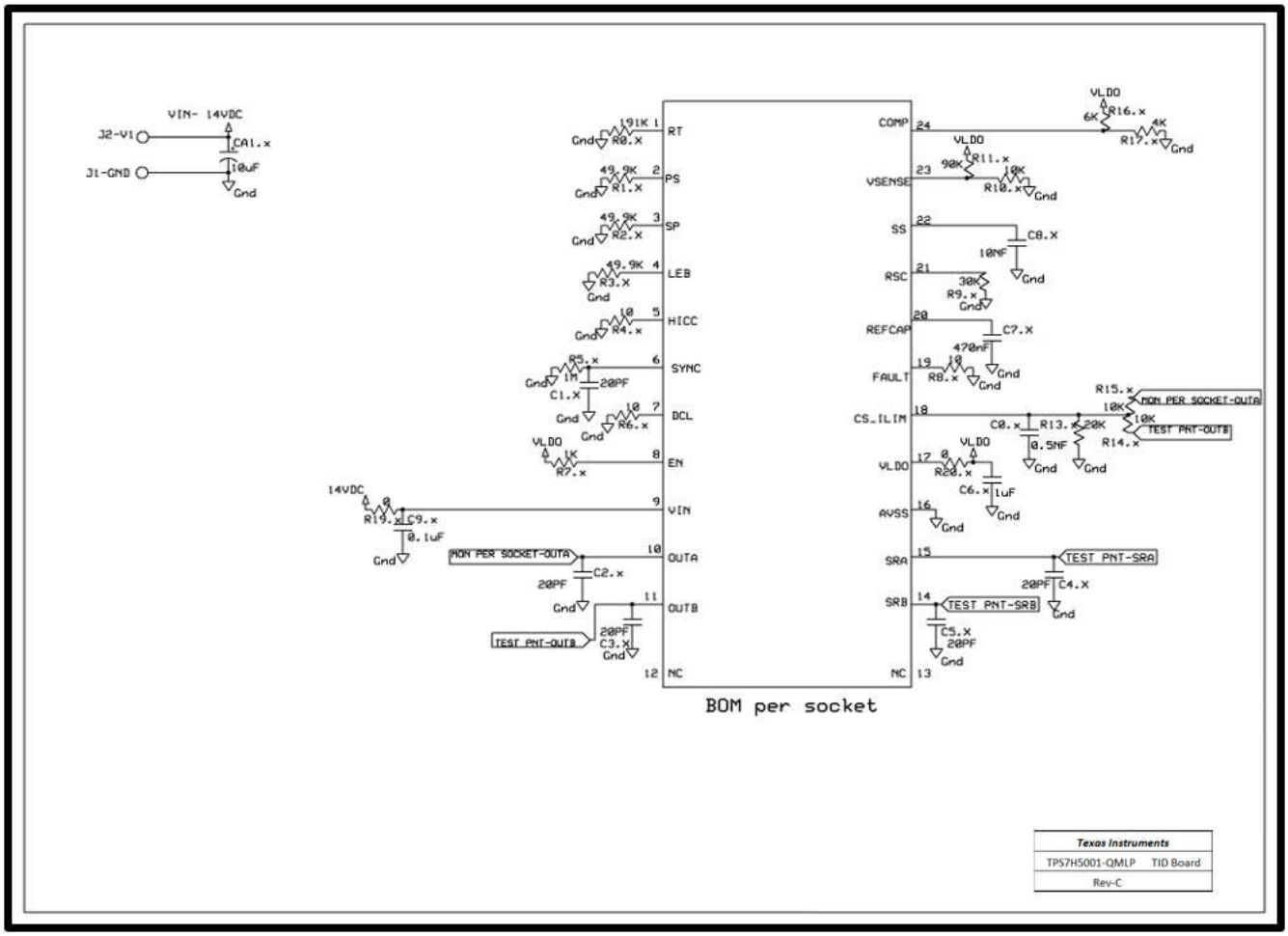

Figure 2-1. Bias Diagram Used in TID Exposure

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2.4 Test Configuration and Condition

HDR devices were stressed at 3 krad(Si), 10 krad(Si), 30 krad(Si), 50 krad(Si), and 100 krad(Si) for biased and unbiased conditions.

Table 2-1. HDR: 3-krad(Si) to 100-krad(Si)/s Biased Device Information

Total Samples: 25				
Exposure Levels				
3 krad(Si)	10 krad(Si)	30 krad(Si)	50 krad(Si)	100 krad(Si)
6, 7, 8, 9, 10	16, 17, 19, 20, 21	27, 28, 29, 30, 31	37, 38, 39, 40, 41	47, 48, 49, 50, 51

Table 2-2. HDR: 3-krad(Si) to 100-krad(Si)/s Unbiased Device Information

Total Samples: 25				
Exposure Levels				
3 krad(Si)	10 krad(Si)	30 krad(Si)	50 krad(Si)	100 krad(Si)
1, 2, 3, 4, 5	11, 12, 13, 14, 15	22, 23, 24, 25, 26	32, 33, 34, 35, 36	42, 43, 44, 45, 46

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3 TID Characterization Test Results

3.1 TID Characterization Summary Results

The parametric data for the TPS7H5002-SP QMLP passes up to 100-krad(Si) HDR TID irradiation. The drifts of the data sheet electrical parameters through HDR were within the data sheet limits.

Overall, the TPS7H5002-SP QMLP showed a strong degree of hardness to HDR TID irradiation up to 100 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 datas heet electrical parameters. See TPS7H500x-SP Radiation-Hardness-Assured 2-MHz Current Mode PWM Controllers for the data sheet electrical parameters and associated tests.

See Appendix A for specifications requiring clarification.

See Appendix B for HDR report up to 100 krad(Si).

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3.2 Specification Compliance Matrix

Table 3-1. TPS7H5002-SP QMLP Electrical Parameters Table

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
SUPPLY VOLTAGES AND CURRENTS						
IDD Operating supply current	f_{SW} = 500kHz, 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} = 1MHz, 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} = 2MHz, 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} = 500kHz, C_{LOAD} = 100pF 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} = 1MHz, C_{LOAD} = 100pF 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} = 2MHz, C_{LOAD} = 100pF 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 = 0V			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	5V ≤VIN ≤ 14V, fsw ≤ 1MHz	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
	5V ≤ VIN ≤ 14V, fsw = 2MHz	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 = 14V, EN = 5V		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 = 0.3V	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						
EA_{gm} Transconductance	-2µA < I_{COMP} < 2µA, $V_{(COMP)}$ = 1V	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

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Table 3-1. TPS7H5002-SP QMLP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
EA_{ISRC} Error amplifier source current	$V_{(COMP)}$ = 1V, 100mV 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	$V_{(COMP)}$ = 1V, 100mV 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} = 25pF		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} = 25pF		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}= 10mA			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 = 200kHz			20	µs	9.185__T_SYNC_DETECT
FSW_{EXT} Externally set frequency	RT = 1.07MΩ	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 = 511kΩ	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

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Table 3-1. TPS7H5002-SP QMLP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
REFCAP REFCAP voltage	REFCAP = 470nF	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 HICCUP						
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} = 1V	0.4		1.4	µs	12.14 __T_FAULT_MIN
t_{DFLT} FLT delay duration	f_{sw} = 100kHz	140	152	169	µs	12.15 __T_FAULT_DELAY_100kHz
	f_{sw} = 200kHz	66	78	86	µs	12.17 __T_FAULT_DELAY_200kHz
	f_{sw} = 1MHz	14	17	21	µs	12.21 __T_FAULT_DELAY_1MHz
	f_{sw} = 2MHz	7	11	14	µs	12.23 __T_FAULT_DELAY_2MHz
PRIMARY AND SYNCHRONOUS RECTIFIER OUTPUTS						
Rise/fall time	R_{LOAD} = 50kΩ, C_{LOAD} = 100pF, 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
t_{MIN} Minimum on-time LEB = 10 kΩ	LEB = 10kΩ, 5V ≤ VIN ≤ 14V			85	ns	13.145__OUT_T_ON_MIN

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Table 3-1. TPS7H5002-SP QMLP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
TD_{PS} Primary off to secondary on dead time	PS = floating, 5V ≤ VIN ≤ 14V, 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, 13.41 __PSA_DT_0ns_1M_12V, 13.45 __PSA_DT_0ns_1M_14V
	PS = 49.9kΩ, 5V ≤ VIN ≤ 14V, 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, 13.57 __PSA_DT_50ns_1M_12V, 13.61 __PSA_DT_50ns_1M_14V
	PS = 107kΩ, 5V ≤ VIN ≤ 14V, 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, 13.73 __PSA_DT_100ns_1M_12V, 13.77 __PSA_DT_100ns_1M_14V
TD_{SP} Secondary off to primary on dead time	SP = floating, 5V ≤ VIN ≤ 14V, 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, 13.43 __SPA_DT_0ns_1M_12V, 13.47 __SPA_DT_0ns_1M_14V
	SP = 49.9kΩ, 5V ≤ VIN ≤ 14V, 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, 13.59 __SPA_DT_50ns_1M_12V, 13.63 __SPA_DT_50ns_1M_14V
	SP = 100 kΩ, 5V ≤ VIN ≤ 14V, 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, 13.75 __SPA_DT_100ns_1M_12V, 13.79 __SPA_DT_100ns_1M_14V
DUTY CYCLE						
D_{MAX} Maximum duty cycle	DCL = floating	70	75	80	%	13.163__MAX_DC_DCL_OPEN
	DCL =VLDO			100	%	13.166__MAX_DC_DCL_VLDO

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4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, TPS7H500x-SP Radiation-Hardness-Assured 2-MHz Current Mode PWM Controllers
- 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.

A Appendix: Specifications Requiring Clarification

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

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET			
		MIN	TYP	MAX	UNIT
VIN 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

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET			
		MIN	TYP	MAX	UNIT
EA_{DC} DC gain	VSENSE = 0.6V		10000		V/V
EA_{ro} Error amplifier output resistance			7		MΩ
EA_{IB} Error amplifier bias current				35	nA
EA_{BW} Bandwidth			10		MHz
$SYNC_{IL}$ SYNC in low-level	VIN < 5V			0.8	V
	VIN ≥ 5V			0.8	
$SYNC_{IH}$ SYNC in high-level	VIN < 5V		3.5		V
	VIN ≥ 5V		3.5		
(VLDO - $SYNC_{OH}$) SYNC out high level	I_{OH} = 10mA			0.5	V

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

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET			
		MIN	TYP	MAX	UNIT
I_{HICC_DEL} Hiccup delay current	CS_LIM = 1.3V, COMP = 3V, VSENSE = REFCAP/2 V, C_{HICC} = 3nF, LEB = 49.9kΩ, f_{sw} = 100kHz		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

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

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET			
		MIN	TYP	MAX	UNIT
Slope compensation	f_{SW} = 100kHz, RSC = 1.18MΩ		0.033		V/µs
	f_{SW} = 200kHz, RSC = 562kΩ		0.066		
	f_{SW} = 1000kHz, RSC = 100kΩ		0.333		
	f_{SW} = 2000kHz, RSC = 49.9kΩ		0.666		

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

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP DATA SHEET			
		MIN	TYP	MAX	UNIT
PRIMARY AND SYNCHRONOUS RECTIFIER OUTPUTS					
Low-level threshold	I_{SINK} = 10mA		0.5		V
High-level threshold	I_{SOURCE} = 10mA		4.5		V
R_{SRC_P} Output source resistance	I_{OUT} = 20mA		15		Ω
R_{SINK_P} Output sink resistance	I_{OUT} = 20mA		15		Ω

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

PARAMETER	TEST CONDITION	TPS7H5002-SP QMLP 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.

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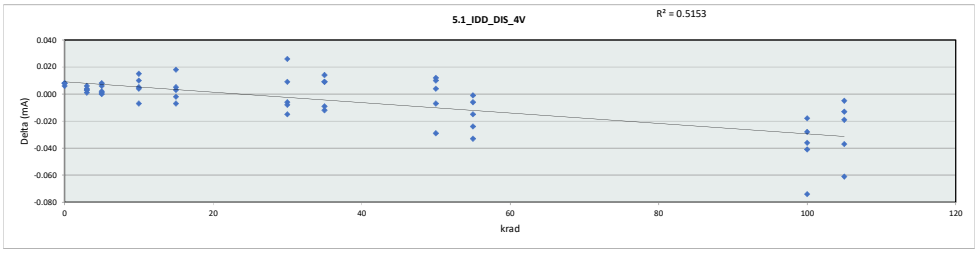
TID HDR Report
TPS7H5002-SP QMLP

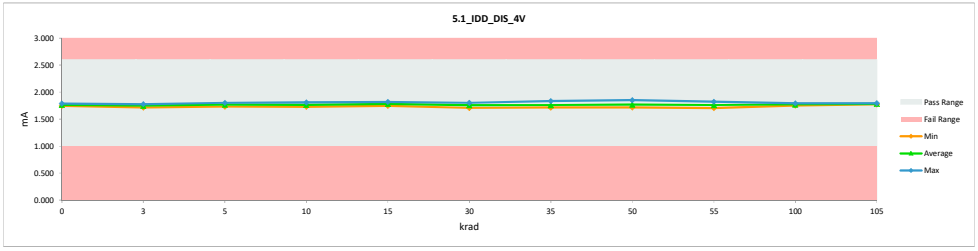
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	5.1_IDD_DIS_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	3	2.6
Min Limit	0	1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.779	1.787	0.008
0	69	1.737	1.745	0.008
0	70	1.759	1.765	0.006
3	1	1.729	1.733	0.004
3	2	1.711	1.714	0.003
3	3	1.758	1.761	0.003
3	4	1.757	1.758	0.001
3	5	1.771	1.777	0.006
5	6	1.763	1.764	0.001
5	7	1.730	1.730	0.000
5	8	1.781	1.787	0.006
5	9	1.760	1.768	0.008
5	10	1.798	1.800	0.002
10	11	1.749	1.753	0.004
10	12	1.815	1.808	-0.007
10	13	1.722	1.727	0.005
10	14	1.749	1.764	0.015
10	15	1.759	1.769	0.010
15	16	1.790	1.795	0.005
15	17	1.797	1.800	0.003
15	19	1.821	1.819	-0.002
15	20	1.752	1.745	-0.007
15	21	1.736	1.754	0.018
30	22	1.771	1.765	-0.006
30	23	1.778	1.770	-0.008
30	24	1.761	1.746	-0.015
30	25	1.681	1.707	0.026
30	26	1.793	1.802	0.009
35	27	1.753	1.762	0.009
35	28	1.819	1.833	0.014
35	29	1.748	1.739	-0.009
35	30	1.705	1.714	0.009
35	31	1.759	1.747	-0.012
50	32	1.838	1.850	0.012
50	33	1.706	1.716	0.010
50	34	1.749	1.720	-0.029
50	35	1.821	1.825	0.004
50	36	1.730	1.723	-0.007
55	37	1.819	1.795	-0.024
55	38	1.754	1.721	-0.033
55	39	1.719	1.704	-0.015
55	40	1.762	1.756	-0.006
55	41	1.822	1.821	-0.001
100	42	1.787	1.769	-0.018
100	43	1.816	1.775	-0.041
100	44	1.804	1.776	-0.028
100	45	1.865	1.791	-0.074
100	46	1.786	1.750	-0.036
105	47	1.810	1.773	-0.037
105	48	1.835	1.774	-0.061
105	49	1.795	1.782	-0.013
105	50	1.799	1.794	-0.005
105	51	1.791	1.772	-0.019
Max		1.865	1.850	0.026
Average		1.772	1.766	-0.006
Min		1.681	1.704	-0.074
Std Dev		0.039	0.034	0.019



	5.1_IDD_DIS_4V										
Test Site											
Tester											
Test Number											
Max Limit	2.6	mA									
Min Limit	1	mA									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Min	1.745	1.714	1.730	1.727	1.745	1.707	1.714	1.716	1.704	1.750	1.772
Average	1.766	1.749	1.770	1.764	1.783	1.758	1.759	1.767	1.759	1.772	1.779
Max	1.787	1.777	1.800	1.808	1.819	1.802	1.833	1.850	1.821	1.791	1.794
UL	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600

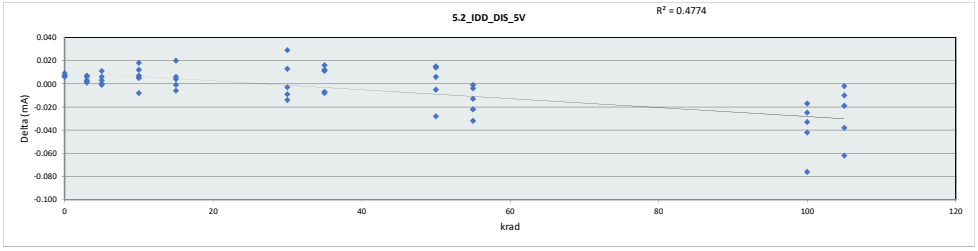


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

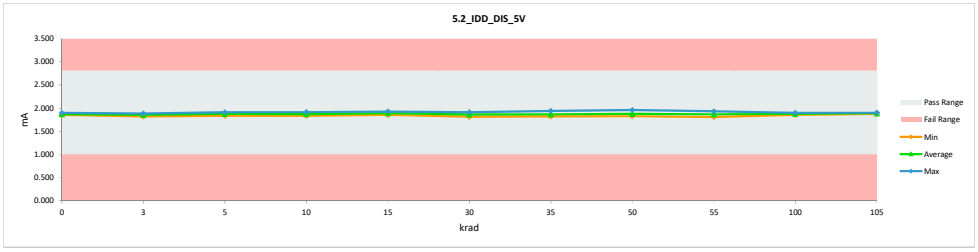
	5.2_IDD_DIS_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	3	2.8
Min Limit	0	1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.884	1.893	0.009
0	69	1.844	1.851	0.007
0	70	1.864	1.870	0.006
3	1	1.832	1.838	0.006
3	2	1.817	1.820	0.003
3	3	1.867	1.869	0.002
3	4	1.863	1.864	0.001
3	5	1.876	1.883	0.007
5	6	1.870	1.870	0.000
5	7	1.835	1.834	-0.001
5	8	1.888	1.894	0.006
5	9	1.864	1.875	0.011
5	10	1.905	1.908	0.003
10	11	1.855	1.860	0.005
10	12	1.923	1.915	-0.008
10	13	1.824	1.831	0.007
10	14	1.852	1.870	0.018
10	15	1.864	1.876	0.012
15	16	1.898	1.904	0.006
15	17	1.903	1.907	0.004
15	19	1.927	1.926	-0.001
15	20	1.857	1.851	-0.006
15	21	1.840	1.860	0.020
30	22	1.875	1.872	-0.003
30	23	1.882	1.873	-0.009
30	24	1.866	1.852	-0.014
30	25	1.784	1.813	0.029
30	26	1.896	1.909	0.013
35	27	1.856	1.868	0.012
35	28	1.924	1.940	0.016
35	29	1.850	1.843	-0.007
35	30	1.810	1.821	0.011
35	31	1.862	1.854	-0.008
50	32	1.944	1.958	0.014
50	33	1.808	1.823	0.015
50	34	1.853	1.825	-0.028
50	35	1.927	1.933	0.006
50	36	1.834	1.829	-0.005
55	37	1.924	1.902	-0.022
55	38	1.860	1.828	-0.032
55	39	1.822	1.809	-0.013
55	40	1.865	1.861	-0.004
55	41	1.930	1.929	-0.001
100	42	1.894	1.877	-0.017
100	43	1.921	1.879	-0.042
100	44	1.908	1.883	-0.025
100	45	1.972	1.896	-0.076
100	46	1.889	1.856	-0.033
105	47	1.918	1.880	-0.038
105	48	1.941	1.879	-0.062
105	49	1.899	1.889	-0.010
105	50	1.903	1.901	-0.002
105	51	1.896	1.877	-0.019
Max		1.972	1.958	0.029
Average		1.877	1.872	-0.004
Min		1.784	1.809	-0.076
Std Dev		0.040	0.034	0.020



	5.2_IDD_DIS_5V	
Test Site		
Tester		
Test Number		
Max Limit	2.8	mA
Min Limit	1	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Min	1.851	1.820	1.834	1.831	1.851	1.813	1.821	1.823	1.809	1.856	1.877
Average	1.871	1.855	1.876	1.870	1.890	1.864	1.865	1.874	1.866	1.878	1.885
Max	1.893	1.883	1.908	1.915	1.926	1.909	1.940	1.958	1.929	1.896	1.901
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800

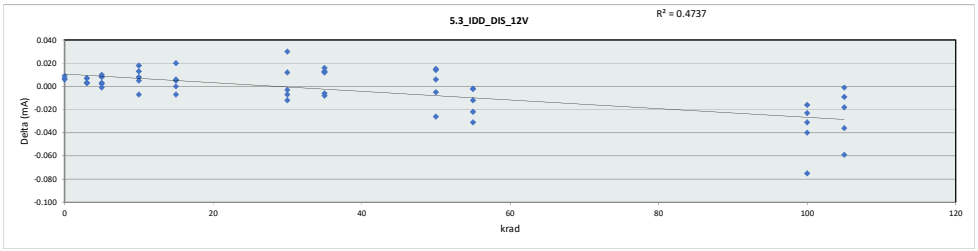


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

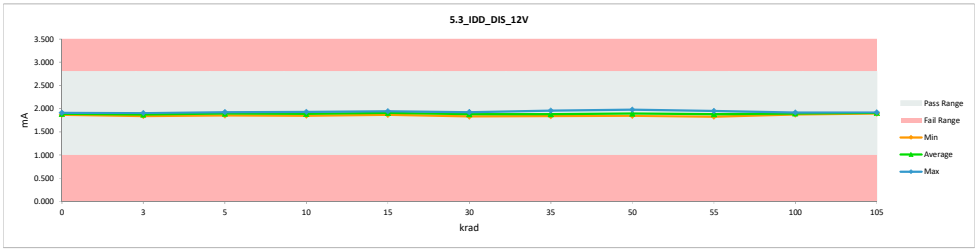
	5.3_IDD_DIS_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	3	2.8
Min Limit	0	1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.900	1.909	0.009
0	69	1.861	1.868	0.007
0	70	1.879	1.885	0.006
3	1	1.849	1.856	0.007
3	2	1.836	1.839	0.003
3	3	1.885	1.888	0.003
3	4	1.881	1.884	0.003
3	5	1.897	1.904	0.007
5	6	1.882	1.884	0.002
5	7	1.852	1.851	-0.001
5	8	1.904	1.912	0.008
5	9	1.881	1.891	0.010
5	10	1.922	1.925	0.003
10	11	1.872	1.877	0.005
10	12	1.936	1.929	-0.007
10	13	1.839	1.847	0.008
10	14	1.871	1.889	0.018
10	15	1.878	1.891	0.013
15	16	1.912	1.918	0.006
15	17	1.921	1.926	0.005
15	19	1.942	1.942	0.000
15	20	1.873	1.866	-0.007
15	21	1.857	1.877	0.020
30	22	1.892	1.889	-0.003
30	23	1.894	1.887	-0.007
30	24	1.885	1.873	-0.012
30	25	1.800	1.830	0.030
30	26	1.911	1.923	0.012
35	27	1.872	1.884	0.012
35	28	1.940	1.956	0.016
35	29	1.864	1.858	-0.006
35	30	1.824	1.837	0.013
35	31	1.883	1.875	-0.008
50	32	1.961	1.975	0.014
50	33	1.827	1.842	0.015
50	34	1.872	1.846	-0.026
50	35	1.946	1.952	0.006
50	36	1.850	1.845	-0.005
55	37	1.943	1.921	-0.022
55	38	1.874	1.843	-0.031
55	39	1.837	1.825	-0.012
55	40	1.880	1.878	-0.002
55	41	1.950	1.948	-0.002
100	42	1.912	1.896	-0.016
100	43	1.937	1.897	-0.040
100	44	1.925	1.902	-0.023
100	45	1.990	1.915	-0.075
100	46	1.905	1.874	-0.031
105	47	1.935	1.899	-0.036
105	48	1.957	1.898	-0.059
105	49	1.918	1.909	-0.009
105	50	1.920	1.919	-0.001
105	51	1.909	1.891	-0.018
Max		1.990	1.975	0.030
Average		1.893	1.890	-0.004
Min		1.800	1.825	-0.075
Std Dev		0.040	0.034	0.019



	5.3_IDD_DIS_12V	
Test Site		
Tester		
Test Number		
Max Limit	2.8	mA
Min Limit	1	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Min	1.868	1.839	1.851	1.847	1.866	1.830	1.837	1.842	1.825	1.874	1.891
Average	1.887	1.874	1.893	1.887	1.906	1.880	1.882	1.892	1.883	1.897	1.903
Max	1.909	1.904	1.925	1.929	1.942	1.923	1.956	1.975	1.948	1.915	1.919
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800

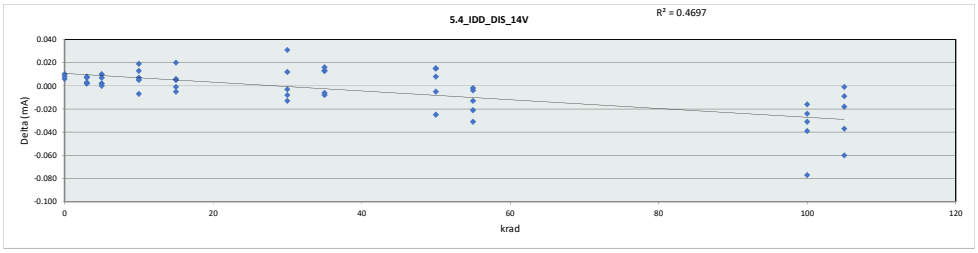


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

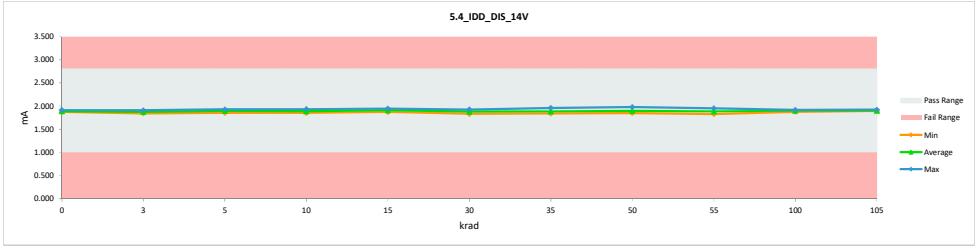
5.4_IDD_DIS_14V		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	3	2.8
Min Limit	0	1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.904	1.914	0.010
0	69	1.865	1.873	0.008
0	70	1.883	1.889	0.006
3	1	1.853	1.860	0.007
3	2	1.840	1.843	0.003
3	3	1.889	1.891	0.002
3	4	1.886	1.888	0.002
3	5	1.900	1.908	0.008
5	6	1.885	1.887	0.002
5	7	1.856	1.856	0.000
5	8	1.908	1.915	0.007
5	9	1.885	1.895	0.010
5	10	1.927	1.929	0.002
10	11	1.876	1.881	0.005
10	12	1.940	1.933	-0.007
10	13	1.844	1.851	0.007
10	14	1.874	1.893	0.019
10	15	1.882	1.895	0.013
15	16	1.916	1.922	0.006
15	17	1.925	1.930	0.005
15	19	1.947	1.946	-0.001
15	20	1.877	1.872	-0.005
15	21	1.862	1.882	0.020
30	22	1.896	1.893	-0.003
30	23	1.899	1.891	-0.008
30	24	1.889	1.876	-0.013
30	25	1.803	1.834	0.031
30	26	1.915	1.927	0.012
35	27	1.876	1.889	0.013
35	28	1.943	1.959	0.016
35	29	1.867	1.861	-0.006
35	30	1.828	1.841	0.013
35	31	1.887	1.879	-0.008
50	32	1.964	1.979	0.015
50	33	1.831	1.846	0.015
50	34	1.876	1.851	-0.025
50	35	1.948	1.956	0.008
50	36	1.854	1.849	-0.005
55	37	1.946	1.925	-0.021
55	38	1.877	1.846	-0.031
55	39	1.842	1.829	-0.013
55	40	1.885	1.881	-0.004
55	41	1.954	1.952	-0.002
100	42	1.916	1.900	-0.016
100	43	1.940	1.901	-0.039
100	44	1.929	1.905	-0.024
100	45	1.996	1.919	-0.077
100	46	1.909	1.878	-0.031
105	47	1.939	1.902	-0.037
105	48	1.962	1.902	-0.060
105	49	1.922	1.913	-0.009
105	50	1.924	1.923	-0.001
105	51	1.913	1.895	-0.018
Max		1.996	1.979	0.031
Average		1.897	1.893	-0.004
Min		1.803	1.829	-0.077
Std Dev		0.040	0.034	0.020



5.4_IDD_DIS_14V		
Test Site		
Tester		
Test Number		
Max Limit	2.8	mA
Min Limit	1	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Min	1.873	1.843	1.856	1.851	1.872	1.834	1.841	1.846	1.829	1.878	1.895
Average	1.892	1.878	1.896	1.891	1.910	1.884	1.886	1.896	1.887	1.901	1.907
Max	1.914	1.908	1.929	1.933	1.946	1.927	1.959	1.979	1.952	1.919	1.923
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800

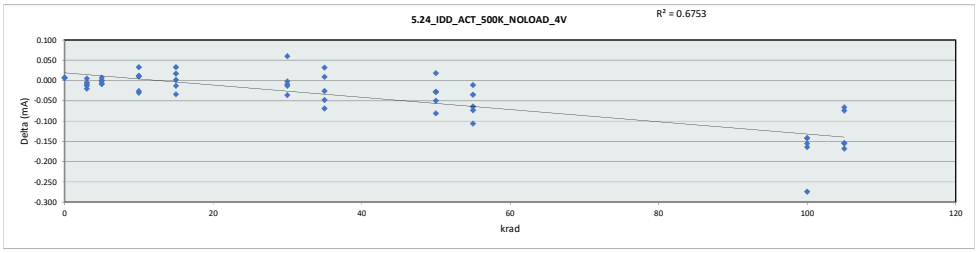


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

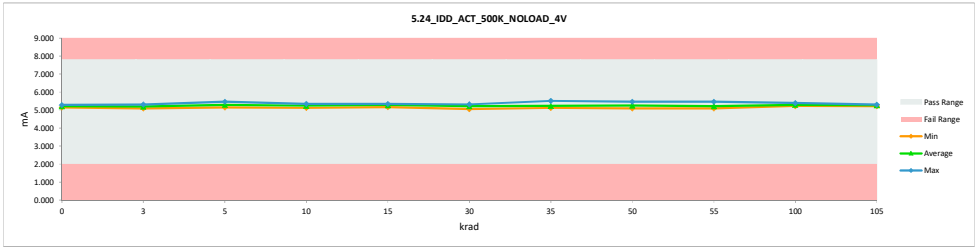
	5.24_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	8	7.8
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.275	5.282	0.007
0	69	5.207	5.214	0.007
0	70	5.139	5.145	0.006
3	1	5.107	5.094	-0.013
3	2	5.124	5.129	0.005
3	3	5.279	5.270	-0.009
3	4	5.212	5.207	-0.005
3	5	5.326	5.306	-0.020
5	6	5.269	5.270	0.001
5	7	5.146	5.145	-0.001
5	8	5.352	5.359	0.007
5	9	5.209	5.200	-0.009
5	10	5.471	5.464	-0.007
10	11	5.235	5.245	0.010
10	12	5.378	5.348	-0.030
10	13	5.148	5.122	-0.026
10	14	5.256	5.289	0.033
10	15	5.188	5.200	0.012
15	16	5.299	5.316	0.017
15	17	5.375	5.341	-0.034
15	19	5.338	5.340	0.002
15	20	5.248	5.235	-0.013
15	21	5.127	5.160	0.033
30	22	5.268	5.266	-0.002
30	23	5.309	5.273	-0.036
30	24	5.199	5.190	-0.009
30	25	4.997	5.057	0.060
30	26	5.330	5.317	-0.013
35	27	5.209	5.241	0.032
35	28	5.559	5.511	-0.048
35	29	5.248	5.179	-0.069
35	30	5.111	5.120	0.009
35	31	5.162	5.136	-0.026
50	32	5.490	5.462	-0.028
50	33	5.151	5.169	0.018
50	34	5.175	5.094	-0.081
50	35	5.413	5.385	-0.028
50	36	5.235	5.185	-0.050
55	37	5.402	5.296	-0.106
55	38	5.184	5.111	-0.073
55	39	5.126	5.091	-0.035
55	40	5.144	5.133	-0.011
55	41	5.525	5.461	-0.064
100	42	5.494	5.330	-0.164
100	43	5.528	5.386	-0.142
100	44	5.383	5.228	-0.155
100	45	5.542	5.268	-0.274
100	46	5.367	5.225	-0.142
105	47	5.374	5.220	-0.154
105	48	5.426	5.271	-0.155
105	49	5.374	5.300	-0.074
105	50	5.463	5.295	-0.168
105	51	5.357	5.291	-0.066
Max		5.559	5.511	0.060
Average		5.288	5.249	-0.039
Min		4.997	5.057	-0.274
Std Dev		0.134	0.105	0.066



	5.24_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Max Limit	7.8	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	5.145	5.094	5.145	5.122	5.160	5.057	5.120	5.094	5.091	5.225	5.220
Average	5.214	5.201	5.288	5.241	5.278	5.221	5.237	5.259	5.218	5.287	5.275
Max	5.282	5.306	5.464	5.348	5.341	5.317	5.511	5.462	5.461	5.386	5.300
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

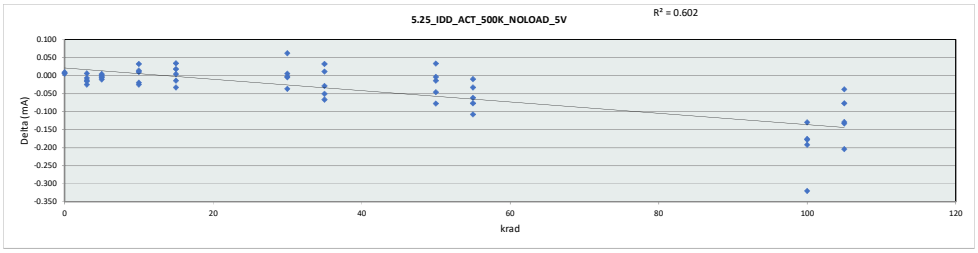


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

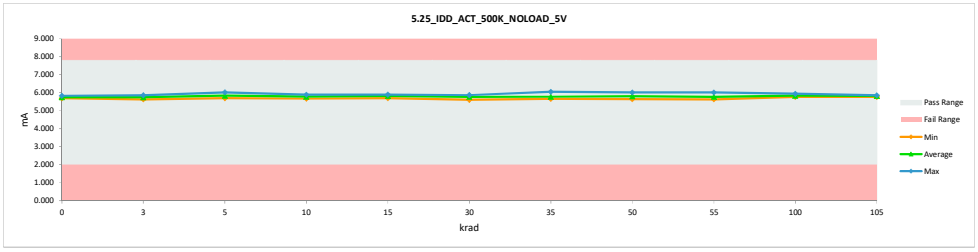
	5.25_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	8	7.8
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.820	5.829	0.009
0	69	5.750	5.757	0.007
0	70	5.681	5.686	0.005
3	1	5.647	5.631	-0.016
3	2	5.664	5.670	0.006
3	3	5.828	5.815	-0.013
3	4	5.756	5.749	-0.007
3	5	5.878	5.853	-0.025
5	6	5.818	5.816	-0.002
5	7	5.690	5.691	0.001
5	8	5.900	5.904	0.004
5	9	5.752	5.741	-0.011
5	10	6.019	6.013	-0.006
10	11	5.775	5.785	0.010
10	12	5.907	5.887	-0.020
10	13	5.688	5.663	-0.025
10	14	5.803	5.835	0.032
10	15	5.728	5.742	0.014
15	16	5.839	5.857	0.018
15	17	5.921	5.888	-0.033
15	19	5.886	5.890	0.004
15	20	5.790	5.776	-0.014
15	21	5.664	5.698	0.034
30	22	5.809	5.814	0.005
30	23	5.850	5.813	-0.037
30	24	5.739	5.736	-0.003
30	25	5.537	5.599	0.062
30	26	5.867	5.862	-0.005
35	27	5.752	5.784	0.032
35	28	6.094	6.043	-0.051
35	29	5.786	5.719	-0.067
35	30	5.649	5.660	0.011
35	31	5.705	5.676	-0.029
50	32	6.013	6.009	-0.004
50	33	5.683	5.716	0.033
50	34	5.718	5.640	-0.078
50	35	5.947	5.933	-0.014
50	36	5.776	5.730	-0.046
55	37	5.950	5.842	-0.108
55	38	5.730	5.653	-0.077
55	39	5.665	5.632	-0.033
55	40	5.683	5.673	-0.010
55	41	6.073	6.011	-0.062
100	42	6.053	5.875	-0.178
100	43	6.111	5.935	-0.176
100	44	5.964	5.772	-0.192
100	45	6.133	5.813	-0.320
100	46	5.893	5.763	-0.130
105	47	5.896	5.767	-0.129
105	48	5.954	5.821	-0.133
105	49	5.923	5.846	-0.077
105	50	6.045	5.841	-0.204
105	51	5.871	5.833	-0.038
Max		6.133	6.043	0.062
Average		5.832	5.792	-0.039
Min		5.537	5.599	-0.320
Std Dev		0.139	0.107	0.072



	5.25_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Max Limit	7.8	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	5.686	5.631	5.691	5.663	5.698	5.599	5.660	5.640	5.632	5.763	5.767
Average	5.757	5.744	5.833	5.782	5.822	5.765	5.776	5.806	5.762	5.832	5.822
Max	5.829	5.853	6.013	5.887	5.890	5.862	6.043	6.009	6.011	5.935	5.846
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

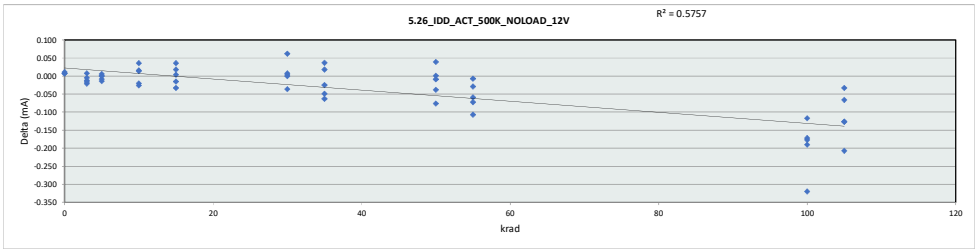


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

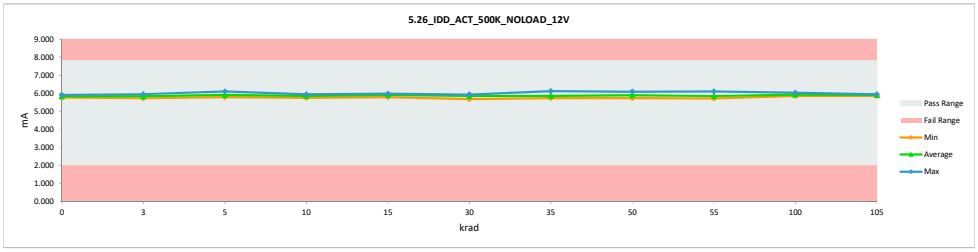
	5.26_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	8	7.8
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.893	5.900	0.007
0	69	5.821	5.832	0.011
0	70	5.741	5.749	0.008
3	1	5.728	5.712	-0.016
3	2	5.750	5.758	0.008
3	3	5.910	5.898	-0.012
3	4	5.839	5.834	-0.005
3	5	5.966	5.945	-0.021
5	6	5.870	5.870	0.000
5	7	5.768	5.769	0.001
5	8	5.975	5.981	0.006
5	9	5.825	5.811	-0.014
5	10	6.100	6.092	-0.008
10	11	5.848	5.862	0.014
10	12	5.962	5.942	-0.020
10	13	5.759	5.733	-0.026
10	14	5.885	5.921	0.036
10	15	5.795	5.811	0.016
15	16	5.899	5.917	0.018
15	17	6.005	5.972	-0.033
15	19	5.956	5.960	0.004
15	20	5.862	5.847	-0.015
15	21	5.740	5.776	0.036
30	22	5.879	5.887	0.008
30	23	5.908	5.872	-0.036
30	24	5.824	5.827	0.003
30	25	5.609	5.671	0.062
30	26	5.925	5.925	0.000
35	27	5.819	5.856	0.037
35	28	6.161	6.112	-0.049
35	29	5.850	5.787	-0.063
35	30	5.705	5.723	0.018
35	31	5.797	5.772	-0.025
50	32	6.085	6.086	0.001
50	33	5.766	5.805	0.039
50	34	5.804	5.728	-0.076
50	35	6.029	6.020	-0.009
50	36	5.839	5.801	-0.038
55	37	6.036	5.929	-0.107
55	38	5.785	5.713	-0.072
55	39	5.726	5.697	-0.029
55	40	5.746	5.739	-0.007
55	41	6.155	6.096	-0.059
100	42	6.129	5.952	-0.177
100	43	6.191	6.019	-0.172
100	44	6.043	5.853	-0.190
100	45	6.213	5.893	-0.320
100	46	5.959	5.842	-0.117
105	47	5.975	5.848	-0.127
105	48	6.035	5.909	-0.126
105	49	6.004	5.938	-0.066
105	50	6.126	5.919	-0.207
105	51	5.925	5.892	-0.033
Max		6.213	6.112	0.062
Average		5.905	5.868	-0.037
Min		5.609	5.671	-0.320
Std Dev		0.141	0.108	0.072



	5.26_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Max Limit	7.8	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	5.749	5.712	5.769	5.733	5.776	5.671	5.723	5.728	5.697	5.842	5.848
Average	5.827	5.829	5.905	5.854	5.894	5.836	5.850	5.888	5.835	5.912	5.901
Max	5.900	5.945	6.092	5.942	5.972	5.925	6.112	6.086	6.096	6.019	5.938
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

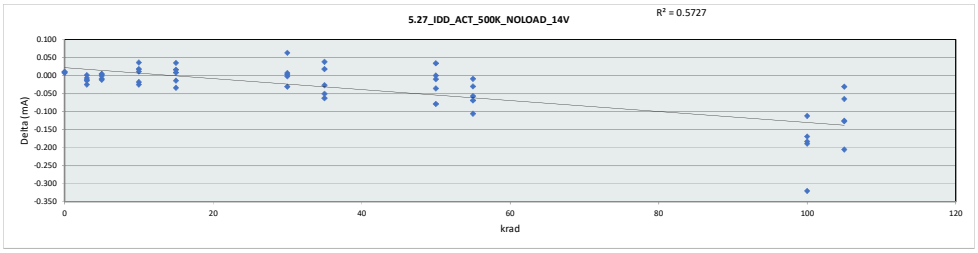


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

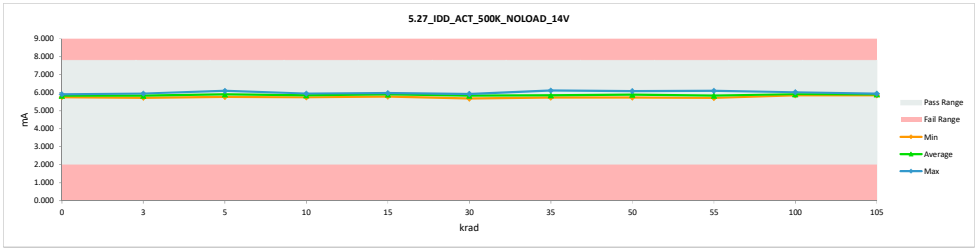
	5.27_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	8	7.8
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.895	5.905	0.010
0	69	5.829	5.836	0.007
0	70	5.744	5.754	0.010
3	1	5.730	5.716	-0.014
3	2	5.758	5.759	0.001
3	3	5.915	5.903	-0.012
3	4	5.846	5.839	-0.007
3	5	5.974	5.949	-0.025
5	6	5.874	5.878	0.004
5	7	5.773	5.772	-0.001
5	8	5.981	5.985	0.004
5	9	5.828	5.816	-0.012
5	10	6.106	6.097	-0.009
10	11	5.854	5.865	0.011
10	12	5.966	5.948	-0.018
10	13	5.762	5.737	-0.025
10	14	5.890	5.926	0.036
10	15	5.797	5.815	0.018
15	16	5.905	5.921	0.016
15	17	6.010	5.976	-0.034
15	19	5.956	5.964	0.008
15	20	5.865	5.851	-0.014
15	21	5.746	5.781	0.035
30	22	5.884	5.891	0.007
30	23	5.910	5.879	-0.031
30	24	5.828	5.831	0.003
30	25	5.613	5.676	0.063
30	26	5.930	5.928	-0.002
35	27	5.823	5.861	0.038
35	28	6.167	6.116	-0.051
35	29	5.855	5.792	-0.063
35	30	5.708	5.726	0.018
35	31	5.802	5.775	-0.027
50	32	6.089	6.089	0.000
50	33	5.773	5.807	0.034
50	34	5.811	5.732	-0.079
50	35	6.034	6.024	-0.010
50	36	5.842	5.806	-0.036
55	37	6.039	5.933	-0.106
55	38	5.790	5.721	-0.069
55	39	5.730	5.700	-0.030
55	40	5.754	5.745	-0.009
55	41	6.158	6.101	-0.057
100	42	6.138	5.955	-0.183
100	43	6.193	6.024	-0.169
100	44	6.047	5.858	-0.189
100	45	6.220	5.900	-0.320
100	46	5.960	5.848	-0.112
105	47	5.981	5.854	-0.127
105	48	6.037	5.912	-0.125
105	49	6.007	5.942	-0.065
105	50	6.129	5.924	-0.205
105	51	5.929	5.898	-0.031
Max		6.220	6.116	0.063
Average		5.909	5.872	-0.037
Min		5.613	5.676	-0.320
Std Dev		0.141	0.108	0.072



	5.27_IDD_ACT_500K_NOLOAD	
Test Site		
Tester		
Test Number		
Max Limit	7.8	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	5.754	5.716	5.772	5.737	5.781	5.676	5.726	5.732	5.700	5.848	5.854
Average	5.832	5.833	5.910	5.858	5.899	5.841	5.854	5.892	5.840	5.917	5.906
Max	5.905	5.949	6.097	5.948	5.976	5.928	6.116	6.089	6.101	6.024	5.942
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

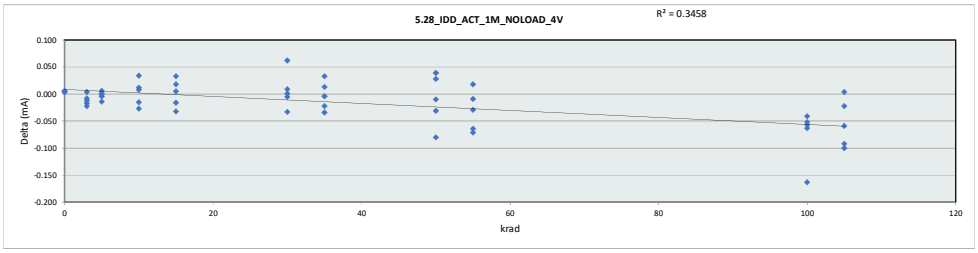


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

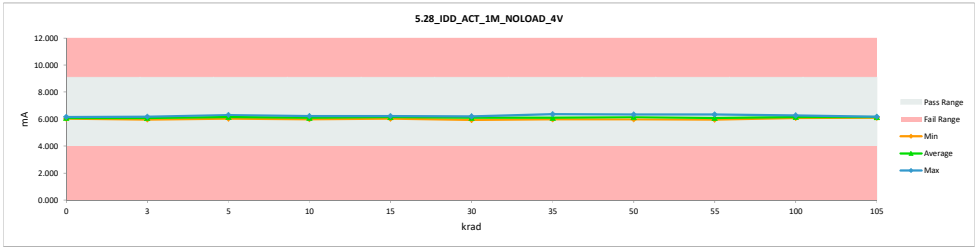
	5.28_IDD_ACT_1M_NOLOAD_4	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.1
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.152	6.158	0.006
0	69	6.080	6.084	0.004
0	70	6.016	6.020	0.004
3	1	5.983	5.966	-0.017
3	2	5.999	6.003	0.004
3	3	6.156	6.144	-0.012
3	4	6.084	6.076	-0.008
3	5	6.202	6.180	-0.022
5	6	6.144	6.145	0.001
5	7	6.023	6.023	0.000
5	8	6.229	6.235	0.006
5	9	6.082	6.068	-0.014
5	10	6.305	6.301	-0.004
10	11	6.101	6.109	0.008
10	12	6.232	6.217	-0.015
10	13	6.021	5.994	-0.027
10	14	6.125	6.159	0.034
10	15	6.054	6.066	0.012
15	16	6.165	6.183	0.018
15	17	6.248	6.216	-0.032
15	19	6.217	6.222	0.005
15	20	6.115	6.099	-0.016
15	21	5.998	6.031	0.033
30	22	6.128	6.137	0.009
30	23	6.180	6.147	-0.033
30	24	6.062	6.057	-0.005
30	25	5.870	5.932	0.062
30	26	6.193	6.194	0.001
35	27	6.078	6.111	0.033
35	28	6.364	6.360	-0.004
35	29	6.079	6.045	-0.034
35	30	5.973	5.986	0.013
35	31	6.026	6.004	-0.022
50	32	6.299	6.327	0.028
50	33	6.006	6.045	0.039
50	34	6.052	5.972	-0.080
50	35	6.274	6.264	-0.010
50	36	6.090	6.059	-0.031
55	37	6.230	6.166	-0.064
55	38	6.052	5.981	-0.071
55	39	5.983	5.954	-0.029
55	40	6.015	6.006	-0.009
55	41	6.311	6.329	0.018
100	42	6.253	6.190	-0.063
100	43	6.303	6.262	-0.041
100	44	6.152	6.100	-0.052
100	45	6.302	6.139	-0.163
100	46	6.146	6.089	-0.057
105	47	6.189	6.097	-0.092
105	48	6.249	6.149	-0.100
105	49	6.169	6.173	0.004
105	50	6.222	6.163	-0.059
105	51	6.181	6.159	-0.022
Max		6.364	6.360	0.062
Average		6.135	6.119	-0.016
Min		5.870	5.932	-0.163
Std Dev		0.109	0.103	0.039



	5.28_IDD_ACT_1M_NOLOAD_4	
Test Site		
Tester		
Test Number		
Max Limit	9.1	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	6.020	5.966	6.023	5.994	6.031	5.932	5.986	5.972	5.954	6.089	6.097
Average	6.087	6.074	6.154	6.109	6.150	6.093	6.101	6.133	6.087	6.156	6.148
Max	6.158	6.180	6.301	6.217	6.222	6.194	6.360	6.327	6.329	6.262	6.173
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

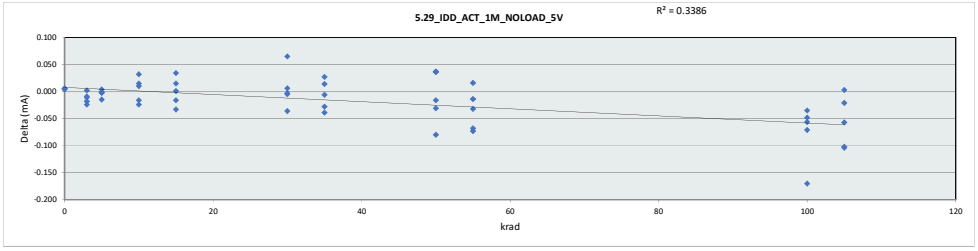


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

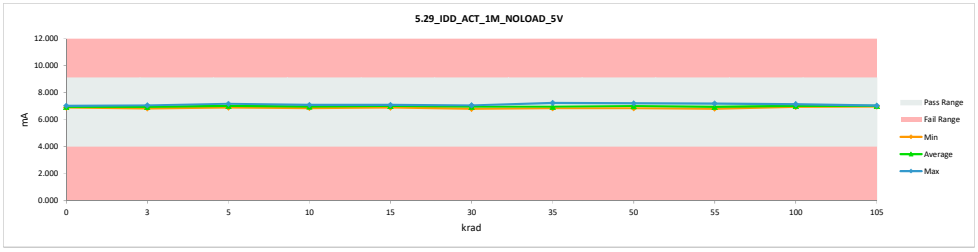
	5.29_IDD_ACT_1M_NOLOAD_5	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.1
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.027	7.031	0.004
0	69	6.948	6.953	0.005
0	70	6.887	6.893	0.006
3	1	6.851	6.833	-0.018
3	2	6.868	6.870	0.002
3	3	7.032	7.021	-0.011
3	4	6.956	6.947	-0.009
3	5	7.081	7.057	-0.024
5	6	7.023	7.021	-0.002
5	7	6.896	6.894	-0.002
5	8	7.110	7.114	0.004
5	9	6.951	6.936	-0.015
5	10	7.174	7.173	-0.001
10	11	6.964	6.974	0.010
10	12	7.106	7.090	-0.016
10	13	6.890	6.866	-0.024
10	14	7.001	7.033	0.032
10	15	6.920	6.935	0.015
15	16	7.031	7.046	0.015
15	17	7.128	7.095	-0.033
15	19	7.094	7.095	0.001
15	20	6.986	6.970	-0.016
15	21	6.863	6.897	0.034
30	22	7.003	7.009	0.006
30	23	7.054	7.018	-0.036
30	24	6.930	6.925	-0.005
30	25	6.741	6.806	0.065
30	26	7.067	7.064	-0.003
35	27	6.955	6.982	0.027
35	28	7.242	7.236	-0.006
35	29	6.945	6.906	-0.039
35	30	6.837	6.851	0.014
35	31	6.895	6.867	-0.028
50	32	7.168	7.204	0.036
50	33	6.882	6.919	0.037
50	34	6.926	6.846	-0.080
50	35	7.157	7.141	-0.016
50	36	6.969	6.938	-0.031
55	37	7.108	7.040	-0.068
55	38	6.924	6.851	-0.073
55	39	6.850	6.818	-0.032
55	40	6.884	6.870	-0.014
55	41	7.186	7.202	0.016
100	42	7.124	7.053	-0.071
100	43	7.181	7.146	-0.035
100	44	7.020	6.972	-0.048
100	45	7.177	7.007	-0.170
100	46	7.010	6.954	-0.056
105	47	7.072	6.970	-0.102
105	48	7.131	7.027	-0.104
105	49	7.041	7.044	0.003
105	50	7.093	7.036	-0.057
105	51	7.046	7.025	-0.021
Max		7.242	7.236	0.065
Average		7.008	6.990	-0.018
Min		6.741	6.806	-0.170
Std Dev		0.112	0.105	0.041



	5.29_IDD_ACT_1M_NOLOAD_5	
Test Site		
Tester		
Test Number		
Max Limit	9.1	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	6.893	6.833	6.894	6.866	6.897	6.806	6.851	6.846	6.818	6.954	6.970
Average	6.959	6.946	7.028	6.980	7.021	6.964	6.968	7.010	6.956	7.026	7.020
Max	7.031	7.057	7.173	7.090	7.095	7.064	7.236	7.204	7.202	7.146	7.044
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

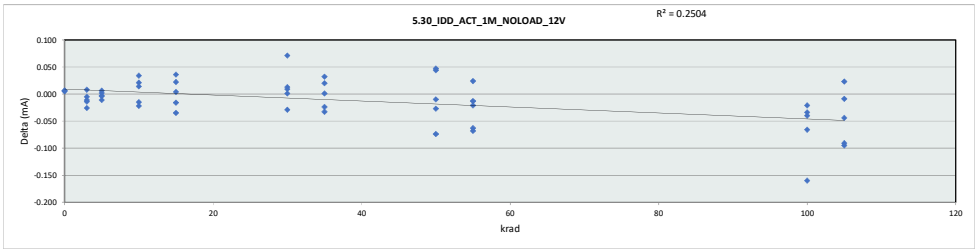


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

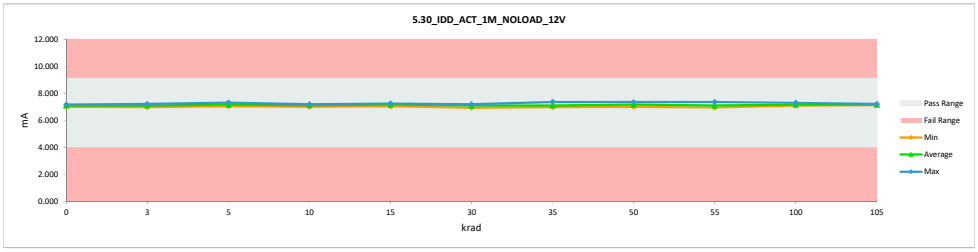
	5.30_IDD_ACT_1M_NOLOAD_
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	9.5
Min Limit	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.151	7.157	0.006
0	69	7.078	7.083	0.005
0	70	6.996	7.002	0.006
3	1	6.985	6.971	-0.014
3	2	7.013	7.021	0.008
3	3	7.170	7.159	-0.011
3	4	7.095	7.090	-0.005
3	5	7.239	7.213	-0.026
5	6	7.115	7.117	0.002
5	7	7.033	7.029	-0.004
5	8	7.244	7.250	0.006
5	9	7.073	7.062	-0.011
5	10	7.312	7.309	-0.003
10	11	7.090	7.104	0.014
10	12	7.202	7.187	-0.015
10	13	7.007	6.985	-0.022
10	14	7.144	7.178	0.034
10	15	7.033	7.054	0.021
15	16	7.132	7.154	0.022
15	17	7.273	7.238	-0.035
15	19	7.211	7.215	0.004
15	20	7.106	7.090	-0.016
15	21	6.995	7.031	0.036
30	22	7.127	7.140	0.013
30	23	7.153	7.124	-0.029
30	24	7.070	7.079	0.009
30	25	6.861	6.932	0.071
30	26	7.173	7.174	0.001
35	27	7.073	7.105	0.032
35	28	7.354	7.355	0.001
35	29	7.057	7.024	-0.033
35	30	6.938	6.958	0.020
35	31	7.054	7.030	-0.024
50	32	7.293	7.337	0.044
50	33	7.023	7.070	0.047
50	34	7.074	7.000	-0.074
50	35	7.296	7.286	-0.010
50	36	7.088	7.061	-0.027
55	37	7.250	7.187	-0.063
55	38	7.029	6.961	-0.068
55	39	6.952	6.931	-0.021
55	40	7.000	6.987	-0.013
55	41	7.324	7.348	0.024
100	42	7.252	7.186	-0.066
100	43	7.310	7.289	-0.021
100	44	7.141	7.107	-0.034
100	45	7.307	7.147	-0.160
100	46	7.129	7.089	-0.040
105	47	7.200	7.109	-0.091
105	48	7.270	7.175	-0.095
105	49	7.178	7.201	0.023
105	50	7.213	7.169	-0.044
105	51	7.139	7.130	-0.009
Max		7.354	7.355	0.071
Average		7.133	7.121	-0.012
Min		6.861	6.931	-0.160
Std Dev		0.114	0.108	0.040



	5.30_IDD_ACT_1M_NOLOAD_1	
Test Site		
Tester		
Test Number		
Max Limit	9.1	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.002	6.971	7.029	6.985	7.031	6.932	6.958	7.000	6.931	7.089	7.109
Average	7.081	7.091	7.153	7.102	7.146	7.090	7.094	7.151	7.083	7.164	7.157
Max	7.157	7.213	7.309	7.187	7.238	7.174	7.355	7.337	7.348	7.289	7.201
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

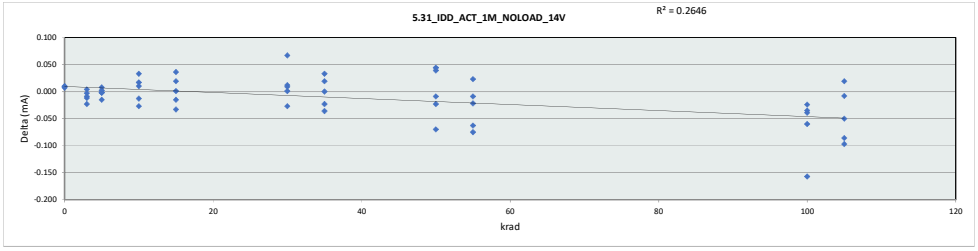


TID HDR Report
TPS7H5002-SP QMLP

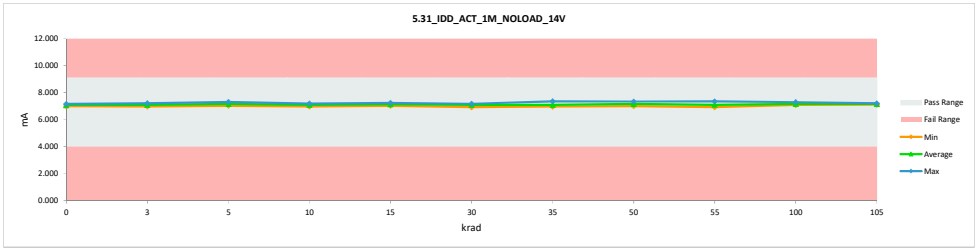
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	5.31_IDD_ACT_1M_NOLOAD_	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.1
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.154	7.163	0.009
0	69	7.080	7.087	0.007
0	70	6.996	7.006	0.010
3	1	6.988	6.976	-0.012
3	2	7.019	7.023	0.004
3	3	7.177	7.168	-0.009
3	4	7.099	7.096	-0.003
3	5	7.243	7.220	-0.023
5	6	7.118	7.120	0.002
5	7	7.034	7.032	-0.002
5	8	7.246	7.254	0.008
5	9	7.078	7.063	-0.015
5	10	7.315	7.313	-0.002
10	11	7.096	7.106	0.010
10	12	7.207	7.194	-0.013
10	13	7.015	6.988	-0.027
10	14	7.150	7.183	0.033
10	15	7.039	7.056	0.017
15	16	7.138	7.157	0.019
15	17	7.278	7.245	-0.033
15	19	7.219	7.220	0.001
15	20	7.111	7.096	-0.015
15	21	6.999	7.035	0.036
30	22	7.133	7.142	0.009
30	23	7.154	7.127	-0.027
30	24	7.072	7.084	0.012
30	25	6.866	6.933	0.067
30	26	7.177	7.178	0.001
35	27	7.077	7.110	0.033
35	28	7.361	7.361	0.000
35	29	7.064	7.028	-0.036
35	30	6.946	6.965	0.019
35	31	7.057	7.034	-0.023
50	32	7.301	7.340	0.039
50	33	7.031	7.075	0.044
50	34	7.075	7.005	-0.070
50	35	7.301	7.292	-0.009
50	36	7.088	7.065	-0.023
55	37	7.254	7.191	-0.063
55	38	7.036	6.961	-0.075
55	39	6.958	6.936	-0.022
55	40	7.002	6.993	-0.009
55	41	7.329	7.352	0.023
100	42	7.254	7.194	-0.060
100	43	7.315	7.291	-0.024
100	44	7.148	7.113	-0.035
100	45	7.309	7.152	-0.157
100	46	7.132	7.093	-0.039
105	47	7.201	7.115	-0.086
105	48	7.274	7.177	-0.097
105	49	7.185	7.204	0.019
105	50	7.222	7.172	-0.050
105	51	7.145	7.137	-0.008
	Max	7.361	7.361	0.067
	Average	7.137	7.125	-0.012
	Min	6.866	6.933	-0.157
	Std Dev	0.114	0.108	0.039



	5.31_IDD_ACT_1M_NOLOAD_1										
Test Site											
Tester											
Test Number											
Max Limit	9.1	mA									
Min Limit	4	mA									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.006	6.976	7.032	6.988	7.035	6.933	6.965	7.005	6.936	7.093	7.115
Average	7.085	7.097	7.156	7.105	7.151	7.093	7.100	7.155	7.087	7.169	7.161
Max	7.163	7.220	7.313	7.194	7.245	7.178	7.361	7.340	7.352	7.291	7.204
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

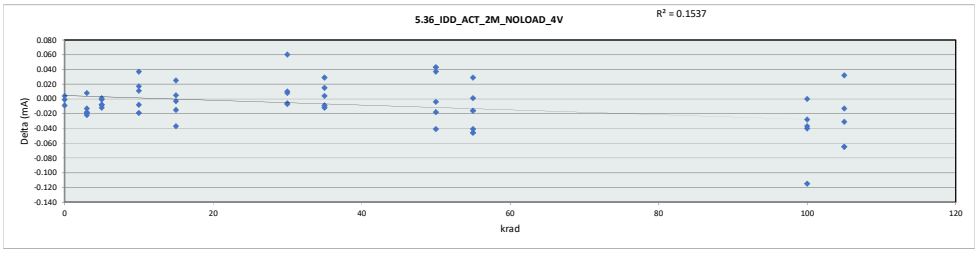


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

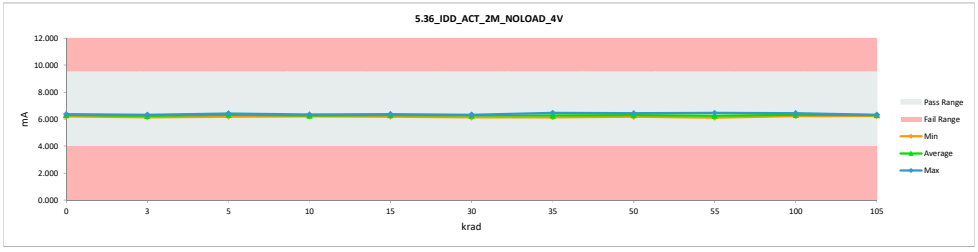
	5.36_IDD_ACT_2M_NOLOAD_4	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	13.5	9.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.373	6.364	-0.009
0	69	6.276	6.275	-0.001
0	70	6.198	6.202	0.004
3	1	6.150	6.132	-0.018
3	2	6.163	6.171	0.008
3	3	6.336	6.317	-0.019
3	4	6.291	6.278	-0.013
3	5	6.343	6.321	-0.022
5	6	6.311	6.312	0.001
5	7	6.187	6.179	-0.008
5	8	6.358	6.357	-0.001
5	9	6.264	6.252	-0.012
5	10	6.432	6.424	-0.008
10	11	6.229	6.240	0.011
10	12	6.347	6.339	-0.008
10	13	6.206	6.187	-0.019
10	14	6.255	6.292	0.037
10	15	6.193	6.210	0.017
15	16	6.334	6.339	0.005
15	17	6.413	6.376	-0.037
15	19	6.359	6.356	-0.003
15	20	6.251	6.236	-0.015
15	21	6.152	6.177	0.025
30	22	6.305	6.315	0.010
30	23	6.327	6.320	-0.007
30	24	6.222	6.216	-0.006
30	25	6.055	6.115	0.060
30	26	6.301	6.309	0.008
35	27	6.263	6.292	0.029
35	28	6.454	6.458	0.004
35	29	6.247	6.238	-0.009
35	30	6.118	6.133	0.015
35	31	6.211	6.199	-0.012
50	32	6.399	6.436	0.037
50	33	6.194	6.237	0.043
50	34	6.213	6.172	-0.041
50	35	6.414	6.410	-0.004
50	36	6.246	6.228	-0.018
55	37	6.357	6.316	-0.041
55	38	6.194	6.148	-0.046
55	39	6.128	6.112	-0.016
55	40	6.148	6.149	0.001
55	41	6.425	6.454	0.029
100	42	6.388	6.351	-0.037
100	43	6.427	6.427	0.000
100	44	6.306	6.278	-0.028
100	45	6.405	6.290	-0.115
100	46	6.266	6.226	-0.040
105	47	6.292	6.227	-0.065
105	48	6.361	6.296	-0.065
105	49	6.259	6.291	0.032
105	50	6.336	6.305	-0.031
105	51	6.335	6.322	-0.013
	Max	6.454	6.458	0.060
	Average	6.283	6.276	-0.008
	Min	6.055	6.112	-0.115
	Std Dev	0.094	0.090	0.030



	5.36_IDD_ACT_2M_NOLOAD_4	
Test Site		
Tester		
Test Number		
Max Limit	9.5	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	6.202	6.132	6.179	6.187	6.177	6.115	6.133	6.172	6.112	6.226	6.227
Average	6.280	6.244	6.305	6.254	6.297	6.255	6.264	6.297	6.236	6.314	6.288
Max	6.364	6.321	6.424	6.339	6.376	6.320	6.458	6.436	6.454	6.427	6.322
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500

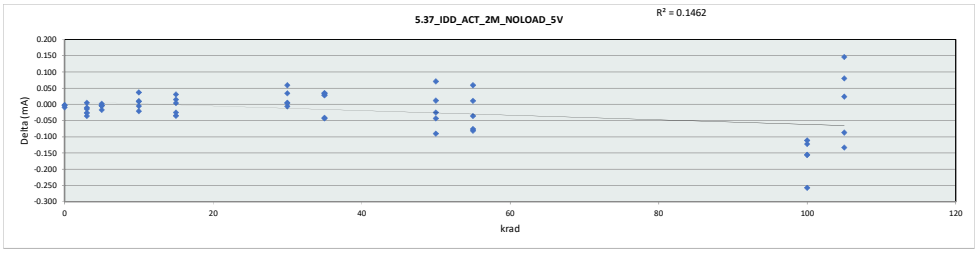


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

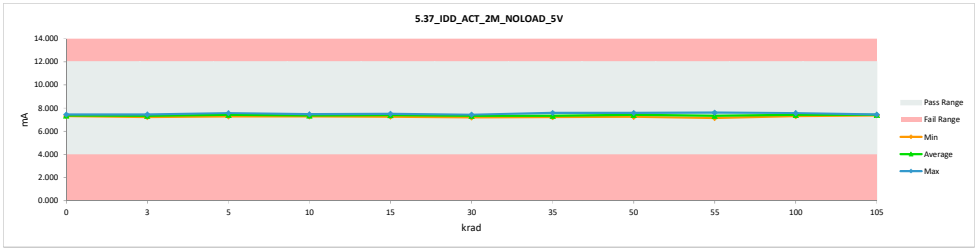
	5.37_IDD_ACT_2M_NOLOAD_5	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	13.5	12
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.460	7.451	-0.009
0	69	7.348	7.345	-0.003
0	70	7.310	7.308	-0.002
3	1	7.259	7.233	-0.026
3	2	7.265	7.270	0.005
3	3	7.451	7.437	-0.014
3	4	7.346	7.336	-0.010
3	5	7.491	7.455	-0.036
5	6	7.451	7.447	-0.004
5	7	7.281	7.277	-0.004
5	8	7.486	7.488	0.002
5	9	7.331	7.314	-0.017
5	10	7.580	7.576	-0.004
10	11	7.338	7.348	0.010
10	12	7.463	7.472	0.009
10	13	7.296	7.275	-0.021
10	14	7.393	7.430	0.037
10	15	7.318	7.313	-0.005
15	16	7.409	7.424	0.015
15	17	7.524	7.489	-0.035
15	19	7.504	7.508	0.004
15	20	7.354	7.329	-0.025
15	21	7.235	7.266	0.031
30	22	7.395	7.399	0.004
30	23	7.430	7.435	0.005
30	24	7.268	7.262	-0.006
30	25	7.146	7.205	0.059
30	26	7.394	7.428	0.034
35	27	7.336	7.364	0.028
35	28	7.552	7.585	0.033
35	29	7.337	7.294	-0.043
35	30	7.185	7.220	0.035
35	31	7.282	7.241	-0.041
50	32	7.482	7.553	0.071
50	33	7.359	7.334	-0.025
50	34	7.327	7.237	-0.090
50	35	7.574	7.586	0.012
50	36	7.378	7.335	-0.043
55	37	7.475	7.439	-0.036
55	38	7.327	7.246	-0.081
55	39	7.226	7.150	-0.076
55	40	7.269	7.280	0.011
55	41	7.546	7.605	0.059
100	42	7.576	7.421	-0.155
100	43	7.686	7.575	-0.111
100	44	7.501	7.379	-0.122
100	45	7.643	7.386	-0.257
100	46	7.471	7.315	-0.156
105	47	7.352	7.376	0.024
105	48	7.369	7.449	0.080
105	49	7.277	7.423	0.146
105	50	7.553	7.420	-0.133
105	51	7.513	7.426	-0.087
	Max	7.686	7.605	0.146
	Average	7.399	7.380	-0.018
	Min	7.146	7.150	-0.257
	Std Dev	0.120	0.110	0.066



	5.37_IDD_ACT_2M_NOLOAD_5	
Test Site		
Tester		
Test Number		
Max Limit	12	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.308	7.233	7.277	7.275	7.266	7.205	7.220	7.237	7.150	7.315	7.376
Average	7.368	7.346	7.420	7.368	7.403	7.346	7.341	7.409	7.344	7.415	7.419
Max	7.451	7.455	7.576	7.472	7.508	7.435	7.585	7.586	7.605	7.575	7.449
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

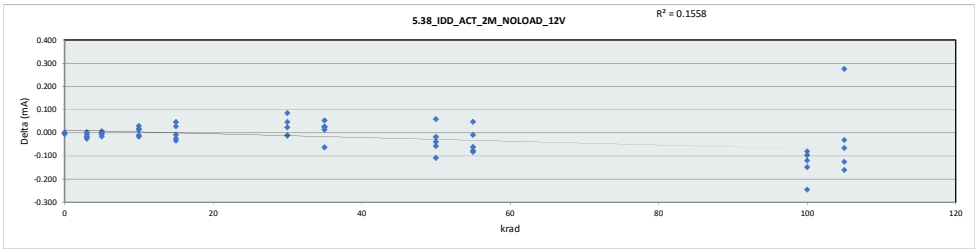


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

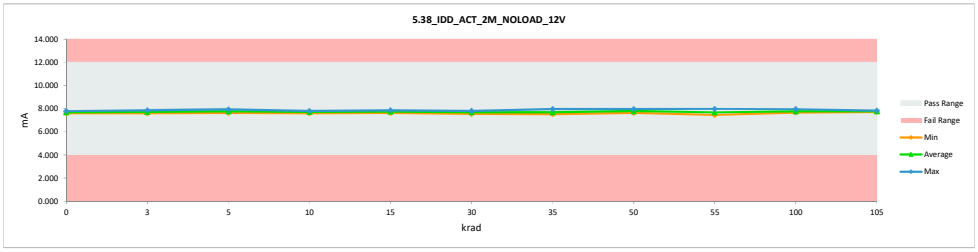
	5.38_IDD_ACT_2M_NOLOAD_	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	13.5	12
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.791	7.785	-0.006
0	69	7.689	7.689	0.000
0	70	7.614	7.614	0.000
3	1	7.608	7.590	-0.018
3	2	7.655	7.658	0.003
3	3	7.822	7.807	-0.015
3	4	7.709	7.702	-0.007
3	5	7.881	7.855	-0.026
5	6	7.724	7.726	0.002
5	7	7.634	7.628	-0.006
5	8	7.896	7.902	0.006
5	9	7.664	7.648	-0.016
5	10	7.933	7.928	-0.005
10	11	7.666	7.679	0.013
10	12	7.805	7.788	-0.017
10	13	7.610	7.599	-0.011
10	14	7.768	7.798	0.030
10	15	7.616	7.634	0.018
15	16	7.689	7.716	0.027
15	17	7.899	7.865	-0.034
15	19	7.849	7.840	-0.009
15	20	7.672	7.647	-0.025
15	21	7.576	7.622	0.046
30	22	7.755	7.742	-0.013
30	23	7.736	7.725	-0.011
30	24	7.604	7.650	0.046
30	25	7.459	7.544	0.085
30	26	7.765	7.788	0.023
35	27	7.649	7.702	0.053
35	28	7.949	7.962	0.013
35	29	7.668	7.605	-0.063
35	30	7.491	7.517	0.026
35	31	7.630	7.655	0.025
50	32	7.889	7.948	0.059
50	33	7.764	7.724	-0.040
50	34	7.745	7.636	-0.109
50	35	7.977	7.959	-0.018
50	36	7.724	7.666	-0.058
55	37	7.881	7.819	-0.062
55	38	7.615	7.537	-0.078
55	39	7.536	7.453	-0.083
55	40	7.601	7.591	-0.010
55	41	7.930	7.977	0.047
100	42	7.921	7.772	-0.149
100	43	8.051	7.954	-0.097
100	44	7.822	7.741	-0.081
100	45	7.998	7.752	-0.246
100	46	7.792	7.672	-0.120
105	47	7.466	7.741	0.275
105	48	7.993	7.832	-0.161
105	49	7.861	7.829	-0.032
105	50	7.888	7.762	-0.126
105	51	7.786	7.720	-0.066
Max		8.051	7.977	0.275
Average		7.749	7.730	-0.019
Min		7.459	7.453	-0.246
Std Dev		0.145	0.124	0.074



	5.38_IDD_ACT_2M_NOLOAD_1	
Test Site		
Tester		
Test Number		
Max Limit	12	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.614	7.590	7.628	7.599	7.622	7.544	7.517	7.636	7.453	7.672	7.720
Average	7.696	7.722	7.766	7.700	7.738	7.690	7.688	7.787	7.675	7.778	7.777
Max	7.785	7.855	7.928	7.798	7.865	7.788	7.962	7.959	7.977	7.954	7.832
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

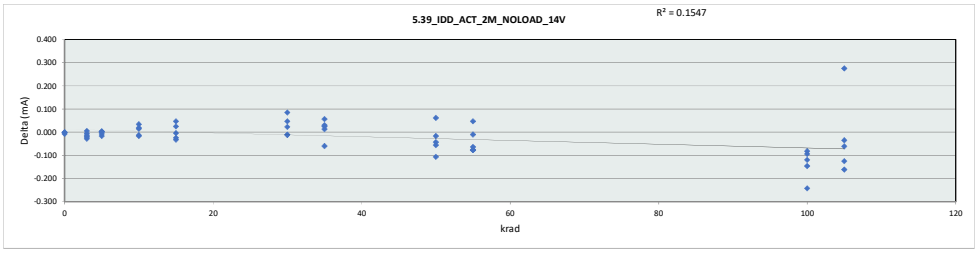


TID HDR Report
TPS7H5002-SP QMLP

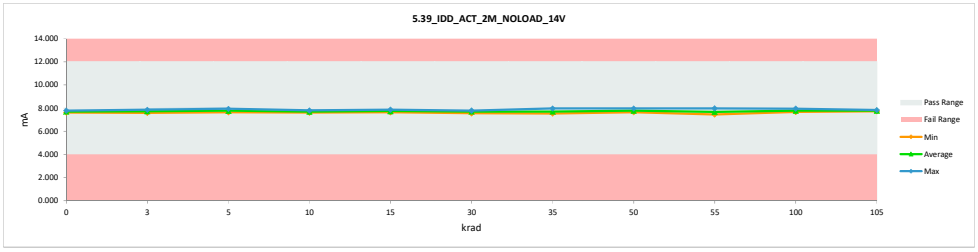
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	5.39_IDD_ACT_2M_NOLOAD_	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	13.5	12
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.796	7.789	-0.007
0	69	7.695	7.694	-0.001
0	70	7.617	7.617	0.000
3	1	7.611	7.591	-0.020
3	2	7.655	7.661	0.006
3	3	7.826	7.813	-0.013
3	4	7.713	7.708	-0.005
3	5	7.884	7.856	-0.028
5	6	7.726	7.730	0.004
5	7	7.637	7.630	-0.007
5	8	7.903	7.905	0.002
5	9	7.667	7.651	-0.016
5	10	7.933	7.934	0.001
10	11	7.667	7.682	0.015
10	12	7.807	7.791	-0.016
10	13	7.614	7.601	-0.013
10	14	7.770	7.804	0.034
10	15	7.620	7.639	0.019
15	16	7.697	7.722	0.025
15	17	7.903	7.871	-0.032
15	19	7.846	7.842	-0.004
15	20	7.675	7.651	-0.024
15	21	7.578	7.625	0.047
30	22	7.758	7.747	-0.011
30	23	7.741	7.730	-0.011
30	24	7.607	7.654	0.047
30	25	7.464	7.549	0.085
30	26	7.768	7.791	0.023
35	27	7.648	7.705	0.057
35	28	7.952	7.965	0.013
35	29	7.671	7.611	-0.060
35	30	7.491	7.521	0.030
35	31	7.632	7.657	0.025
50	32	7.890	7.952	0.062
50	33	7.769	7.726	-0.043
50	34	7.745	7.639	-0.106
50	35	7.979	7.963	-0.016
50	36	7.726	7.670	-0.056
55	37	7.887	7.824	-0.063
55	38	7.617	7.540	-0.077
55	39	7.535	7.458	-0.077
55	40	7.604	7.594	-0.010
55	41	7.936	7.983	0.047
100	42	7.924	7.778	-0.146
100	43	8.055	7.961	-0.094
100	44	7.828	7.746	-0.082
100	45	7.998	7.756	-0.242
100	46	7.795	7.676	-0.119
105	47	7.471	7.746	0.275
105	48	7.999	7.838	-0.161
105	49	7.868	7.833	-0.035
105	50	7.890	7.765	-0.125
105	51	7.790	7.729	-0.061
Max		8.055	7.983	0.275
Average		7.752	7.734	-0.018
Min		7.464	7.458	-0.242
Std Dev		0.145	0.124	0.073



	5.39_IDD_ACT_2M_NOLOAD_1										
Test Site											
Tester											
Test Number											
Max Limit	12	mA									
Min Limit	4	mA									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.617	7.591	7.630	7.601	7.625	7.549	7.521	7.639	7.458	7.676	7.729
Average	7.700	7.726	7.770	7.703	7.742	7.694	7.692	7.790	7.680	7.783	7.782
Max	7.789	7.856	7.934	7.804	7.871	7.791	7.965	7.963	7.983	7.961	7.838
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

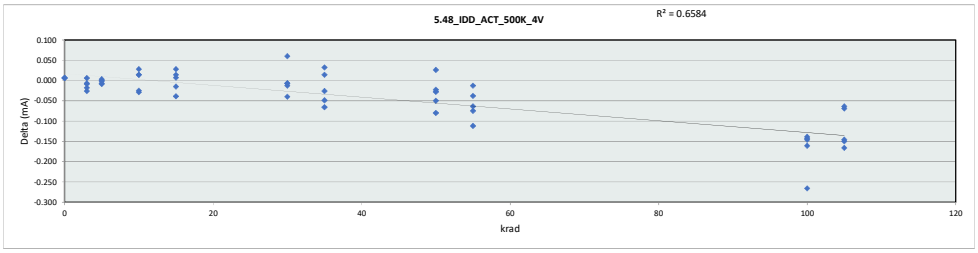


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

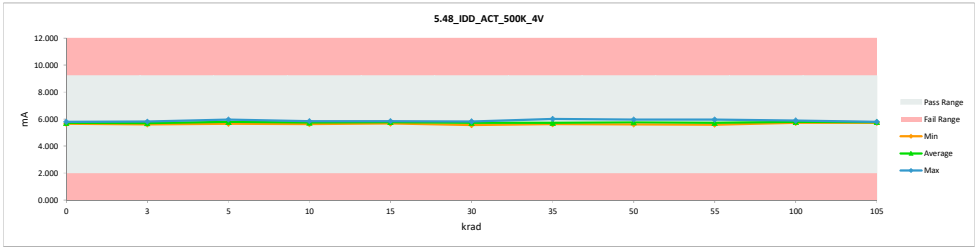
	5.48_IDD_ACT_500K_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.2
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.781	5.787	0.006
0	69	5.708	5.714	0.006
0	70	5.641	5.648	0.007
3	1	5.609	5.591	-0.018
3	2	5.624	5.630	0.006
3	3	5.779	5.770	-0.009
3	4	5.715	5.708	-0.007
3	5	5.833	5.807	-0.026
5	6	5.775	5.775	0.000
5	7	5.651	5.649	-0.002
5	8	5.856	5.859	0.003
5	9	5.711	5.702	-0.009
5	10	5.968	5.961	-0.007
10	11	5.730	5.744	0.014
10	12	5.876	5.847	-0.029
10	13	5.650	5.625	-0.025
10	14	5.761	5.789	0.028
10	15	5.685	5.699	0.014
15	16	5.792	5.806	0.014
15	17	5.881	5.842	-0.039
15	19	5.840	5.847	0.007
15	20	5.745	5.730	-0.015
15	21	5.633	5.661	0.028
30	22	5.774	5.767	-0.007
30	23	5.810	5.770	-0.040
30	24	5.698	5.691	-0.007
30	25	5.501	5.561	0.060
30	26	5.834	5.821	-0.013
35	27	5.707	5.739	0.032
35	28	6.057	6.008	-0.049
35	29	5.748	5.682	-0.066
35	30	5.601	5.615	0.014
35	31	5.660	5.634	-0.026
50	32	5.986	5.963	-0.023
50	33	5.647	5.673	0.026
50	34	5.676	5.596	-0.080
50	35	5.914	5.886	-0.028
50	36	5.739	5.689	-0.050
55	37	5.911	5.799	-0.112
55	38	5.685	5.610	-0.075
55	39	5.626	5.588	-0.038
55	40	5.648	5.635	-0.013
55	41	6.024	5.960	-0.064
100	42	5.987	5.826	-0.161
100	43	6.030	5.891	-0.139
100	44	5.874	5.728	-0.146
100	45	6.036	5.770	-0.266
100	46	5.863	5.720	-0.143
105	47	5.869	5.723	-0.146
105	48	5.926	5.776	-0.150
105	49	5.870	5.801	-0.069
105	50	5.963	5.797	-0.166
105	51	5.851	5.787	-0.064
Max		6.057	6.008	0.060
Average		5.788	5.749	-0.039
Min		5.501	5.561	-0.266
Std Dev		0.133	0.105	0.064



	5.48_IDD_ACT_500K_4V	
Test Site		
Tester		
Test Number		
Max Limit	9.2	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	5.648	5.591	5.649	5.625	5.661	5.561	5.615	5.596	5.588	5.720	5.723
Average	5.716	5.701	5.789	5.741	5.777	5.722	5.736	5.761	5.718	5.787	5.777
Max	5.787	5.807	5.961	5.847	5.847	5.821	6.008	5.963	5.960	5.891	5.801
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

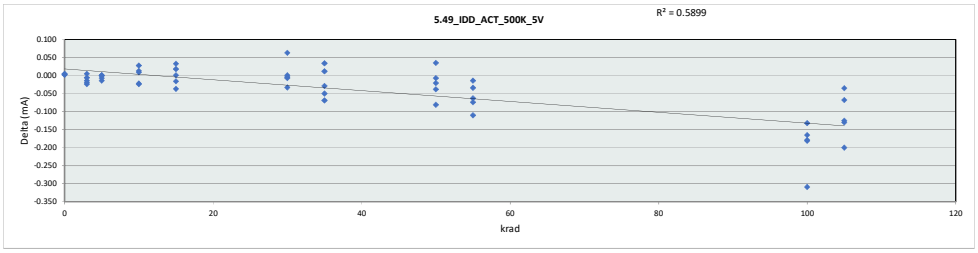


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

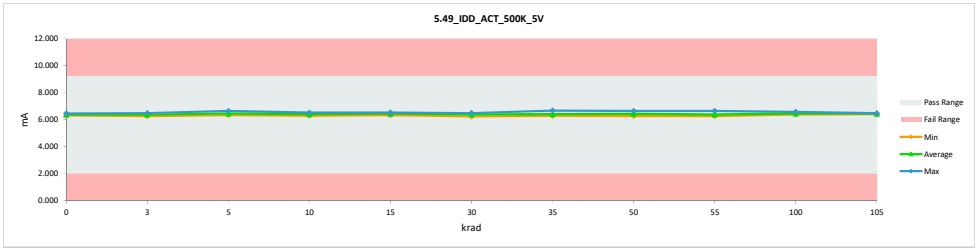
	5.49_IDD_ACT_500K_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.2
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.456	6.458	0.002
0	69	6.379	6.383	0.004
0	70	6.314	6.319	0.005
3	1	6.279	6.259	-0.020
3	2	6.292	6.297	0.005
3	3	6.457	6.443	-0.014
3	4	6.389	6.383	-0.006
3	5	6.512	6.488	-0.024
5	6	6.454	6.455	0.001
5	7	6.323	6.322	-0.001
5	8	6.532	6.533	0.001
5	9	6.383	6.369	-0.014
5	10	6.647	6.640	-0.007
10	11	6.401	6.410	0.009
10	12	6.539	6.517	-0.022
10	13	6.319	6.295	-0.024
10	14	6.437	6.465	0.028
10	15	6.354	6.367	0.013
15	16	6.458	6.476	0.018
15	17	6.559	6.522	-0.037
15	19	6.521	6.522	0.001
15	20	6.421	6.405	-0.016
15	21	6.300	6.333	0.033
30	22	6.442	6.443	0.001
30	23	6.478	6.445	-0.033
30	24	6.369	6.365	-0.004
30	25	6.169	6.232	0.063
30	26	6.499	6.492	-0.007
35	27	6.378	6.412	0.034
35	28	6.723	6.673	-0.050
35	29	6.415	6.346	-0.069
35	30	6.272	6.284	0.012
35	31	6.331	6.302	-0.029
50	32	6.642	6.635	-0.007
50	33	6.312	6.347	0.035
50	34	6.353	6.272	-0.081
50	35	6.582	6.561	-0.021
50	36	6.406	6.368	-0.038
55	37	6.585	6.475	-0.110
55	38	6.355	6.281	-0.074
55	39	6.289	6.255	-0.034
55	40	6.312	6.298	-0.014
55	41	6.700	6.637	-0.063
100	42	6.674	6.495	-0.179
100	43	6.737	6.572	-0.165
100	44	6.584	6.403	-0.181
100	45	6.750	6.441	-0.309
100	46	6.520	6.388	-0.132
105	47	6.527	6.397	-0.130
105	48	6.577	6.452	-0.125
105	49	6.544	6.476	-0.068
105	50	6.666	6.466	-0.200
105	51	6.493	6.458	-0.035
Max		6.750	6.673	0.063
Average		6.461	6.421	-0.039
Min		6.169	6.232	-0.309
Std Dev		0.137	0.106	0.070



	5.49_IDD_ACT_500K_5V	
Test Site		
Tester		
Test Number		
Max Limit	9.2	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	6.319	6.259	6.322	6.295	6.333	6.232	6.284	6.272	6.255	6.388	6.397
Average	6.387	6.374	6.464	6.411	6.452	6.395	6.403	6.437	6.389	6.460	6.450
Max	6.458	6.488	6.640	6.517	6.522	6.492	6.673	6.635	6.637	6.572	6.476
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

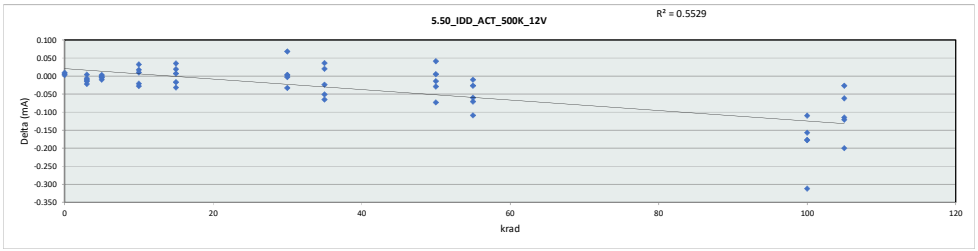


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

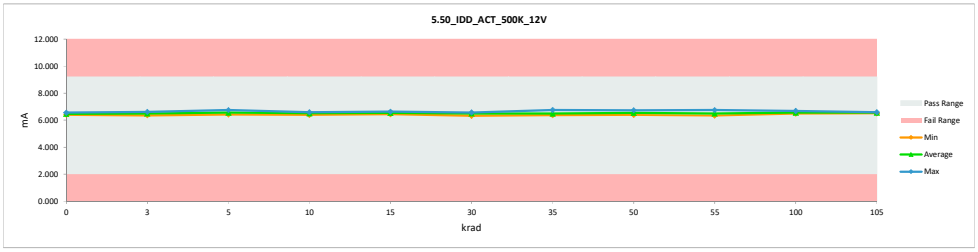
	5.50_IDD_ACT_500K_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.2
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.550	6.556	0.006
0	69	6.477	6.480	0.003
0	70	6.395	6.404	0.009
3	1	6.377	6.362	-0.015
3	2	6.406	6.410	0.004
3	3	6.564	6.553	-0.011
3	4	6.494	6.488	-0.006
3	5	6.630	6.608	-0.022
5	6	6.526	6.526	0.000
5	7	6.426	6.423	-0.003
5	8	6.636	6.639	0.003
5	9	6.477	6.467	-0.010
5	10	6.749	6.744	-0.005
10	11	6.496	6.506	0.010
10	12	6.610	6.589	-0.021
10	13	6.414	6.386	-0.028
10	14	6.545	6.577	0.032
10	15	6.441	6.458	0.017
15	16	6.536	6.555	0.019
15	17	6.668	6.636	-0.032
15	19	6.609	6.616	0.007
15	20	6.512	6.495	-0.017
15	21	6.400	6.435	0.035
30	22	6.537	6.540	0.003
30	23	6.554	6.521	-0.033
30	24	6.475	6.478	0.003
30	25	6.260	6.328	0.068
30	26	6.576	6.573	-0.003
35	27	6.470	6.506	0.036
35	28	6.813	6.762	-0.051
35	29	6.500	6.435	-0.065
35	30	6.348	6.368	0.020
35	31	6.453	6.429	-0.024
50	32	6.733	6.738	0.005
50	33	6.419	6.460	0.041
50	34	6.460	6.387	-0.073
50	35	6.688	6.674	-0.014
50	36	6.491	6.462	-0.029
55	37	6.693	6.584	-0.109
55	38	6.435	6.364	-0.071
55	39	6.367	6.340	-0.027
55	40	6.400	6.390	-0.010
55	41	6.805	6.745	-0.060
100	42	6.775	6.598	-0.177
100	43	6.837	6.680	-0.157
100	44	6.682	6.504	-0.178
100	45	6.857	6.545	-0.312
100	46	6.602	6.492	-0.110
105	47	6.627	6.506	-0.121
105	48	6.685	6.570	-0.115
105	49	6.656	6.594	-0.062
105	50	6.770	6.570	-0.200
105	51	6.565	6.538	-0.027
Max		6.857	6.762	0.068
Average		6.556	6.521	-0.035
Min		6.260	6.328	-0.312
Std Dev		0.140	0.108	0.070



	5.50_IDD_ACT_500K_12V	
Test Site		
Tester		
Test Number		
Max Limit	9.2	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	6.404	6.362	6.423	6.386	6.435	6.328	6.368	6.387	6.340	6.492	6.506
Average	6.480	6.484	6.560	6.503	6.547	6.488	6.500	6.544	6.485	6.564	6.556
Max	6.556	6.608	6.744	6.589	6.636	6.573	6.762	6.738	6.745	6.680	6.594
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

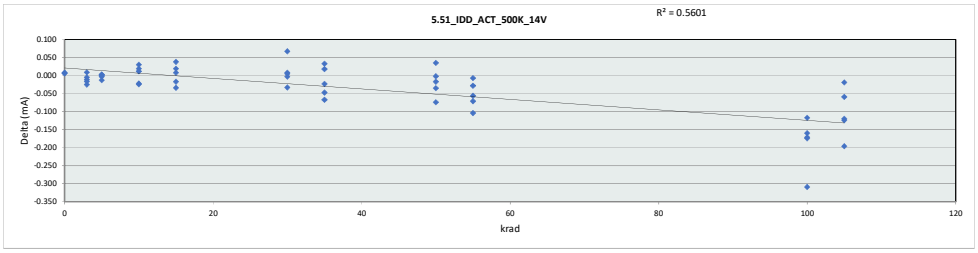


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

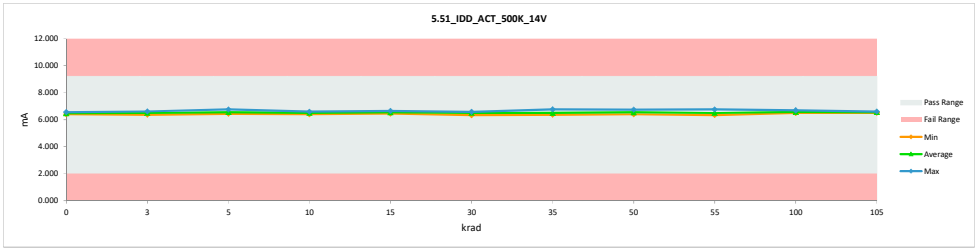
	5.51_IDD_ACT_500K_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.2
Min Limit	0	2

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.552	6.559	0.007
0	69	6.479	6.487	0.008
0	70	6.400	6.406	0.006
3	1	6.384	6.368	-0.016
3	2	6.408	6.417	0.009
3	3	6.567	6.556	-0.011
3	4	6.500	6.495	-0.005
3	5	6.635	6.610	-0.025
5	6	6.531	6.533	0.002
5	7	6.429	6.429	0.000
5	8	6.638	6.641	0.003
5	9	6.482	6.469	-0.013
5	10	6.753	6.750	-0.003
10	11	6.502	6.514	0.012
10	12	6.615	6.593	-0.022
10	13	6.415	6.391	-0.024
10	14	6.550	6.580	0.030
10	15	6.441	6.460	0.019
15	16	6.542	6.561	0.019
15	17	6.671	6.637	-0.034
15	19	6.610	6.618	0.008
15	20	6.517	6.500	-0.017
15	21	6.403	6.441	0.038
30	22	6.539	6.547	0.008
30	23	6.558	6.525	-0.033
30	24	6.481	6.486	0.005
30	25	6.266	6.333	0.067
30	26	6.581	6.578	-0.003
35	27	6.476	6.509	0.033
35	28	6.813	6.766	-0.047
35	29	6.504	6.437	-0.067
35	30	6.352	6.370	0.018
35	31	6.454	6.431	-0.023
50	32	6.742	6.740	-0.002
50	33	6.428	6.463	0.035
50	34	6.467	6.393	-0.074
50	35	6.694	6.677	-0.017
50	36	6.499	6.464	-0.035
55	37	6.695	6.591	-0.104
55	38	6.438	6.367	-0.071
55	39	6.375	6.347	-0.028
55	40	6.402	6.395	-0.007
55	41	6.807	6.751	-0.056
100	42	6.774	6.600	-0.174
100	43	6.845	6.685	-0.160
100	44	6.682	6.511	-0.171
100	45	6.862	6.553	-0.309
100	46	6.610	6.493	-0.117
105	47	6.632	6.508	-0.124
105	48	6.691	6.571	-0.120
105	49	6.655	6.596	-0.059
105	50	6.770	6.574	-0.196
105	51	6.565	6.546	-0.019
Max		6.862	6.766	0.067
Average		6.560	6.525	-0.035
Min		6.266	6.333	-0.309
Std Dev		0.140	0.108	0.069



	5.51_IDD_ACT_500K_14V	
Test Site		
Tester		
Test Number		
Max Limit	9.2	mA
Min Limit	2	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	6.406	6.368	6.429	6.391	6.441	6.333	6.370	6.393	6.347	6.493	6.508
Average	6.484	6.489	6.564	6.508	6.551	6.494	6.503	6.547	6.490	6.568	6.559
Max	6.559	6.610	6.750	6.593	6.637	6.578	6.766	6.740	6.751	6.685	6.596
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

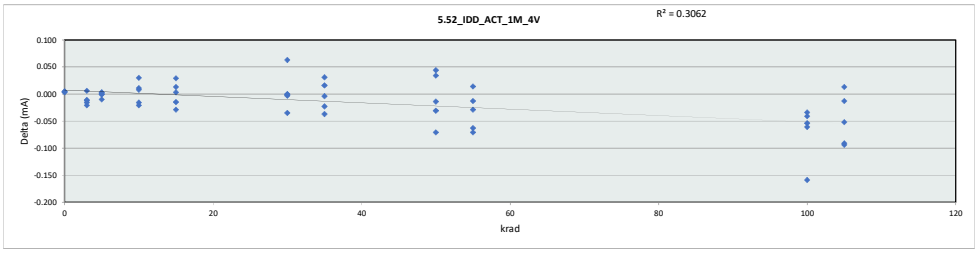


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

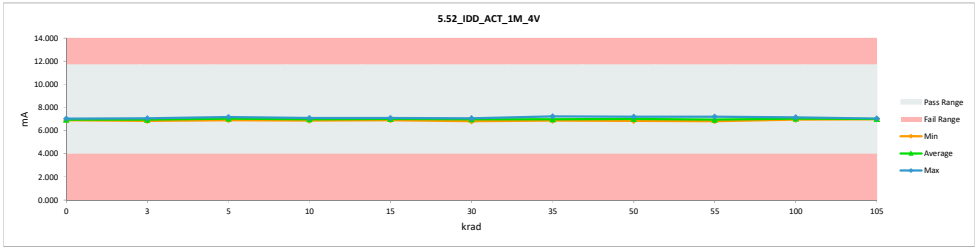
	5.52_IDD_ACT_1M_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	11.7
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.033	7.037	0.004
0	69	6.952	6.957	0.005
0	70	6.896	6.899	0.003
3	1	6.857	6.841	-0.016
3	2	6.870	6.876	0.006
3	3	7.029	7.017	-0.012
3	4	6.960	6.949	-0.011
3	5	7.081	7.060	-0.021
5	6	7.027	7.026	-0.001
5	7	6.901	6.901	0.000
5	8	7.111	7.114	0.003
5	9	6.954	6.944	-0.010
5	10	7.177	7.179	0.002
10	11	6.966	6.974	0.008
10	12	7.109	7.093	-0.016
10	13	6.894	6.873	-0.021
10	14	7.006	7.036	0.030
10	15	6.924	6.935	0.011
15	16	7.030	7.043	0.013
15	17	7.125	7.096	-0.029
15	19	7.096	7.099	0.003
15	20	6.983	6.968	-0.015
15	21	6.876	6.905	0.029
30	22	7.008	7.008	0.000
30	23	7.054	7.019	-0.035
30	24	6.931	6.930	-0.001
30	25	6.750	6.813	0.063
30	26	7.070	7.067	-0.003
35	27	6.954	6.985	0.031
35	28	7.237	7.233	-0.004
35	29	6.951	6.914	-0.037
35	30	6.838	6.854	0.016
35	31	6.896	6.873	-0.023
50	32	7.167	7.201	0.034
50	33	6.880	6.924	0.044
50	34	6.922	6.851	-0.071
50	35	7.153	7.139	-0.014
50	36	6.971	6.940	-0.031
55	37	7.109	7.046	-0.063
55	38	6.925	6.854	-0.071
55	39	6.849	6.820	-0.029
55	40	6.892	6.879	-0.013
55	41	7.183	7.197	0.014
100	42	7.115	7.054	-0.061
100	43	7.180	7.146	-0.034
100	44	7.017	6.976	-0.041
100	45	7.169	7.010	-0.159
100	46	7.008	6.954	-0.054
105	47	7.064	6.973	-0.091
105	48	7.121	7.027	-0.094
105	49	7.033	7.046	0.013
105	50	7.089	7.037	-0.052
105	51	7.045	7.032	-0.013
Max		7.237	7.233	0.063
Average		7.008	6.993	-0.015
Min		6.750	6.813	-0.159
Std Dev		0.109	0.103	0.038



	5.52_IDD_ACT_1M_4V	
Test Site		
Tester		
Test Number		
Max Limit	11.7	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	6.899	6.841	6.901	6.873	6.905	6.813	6.854	6.851	6.820	6.954	6.973
Average	6.964	6.949	7.033	6.982	7.022	6.967	6.972	7.011	6.959	7.028	7.023
Max	7.037	7.060	7.179	7.093	7.099	7.067	7.233	7.201	7.197	7.146	7.046
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

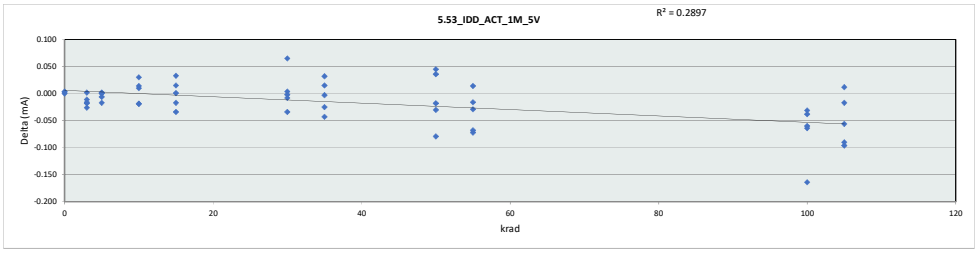


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

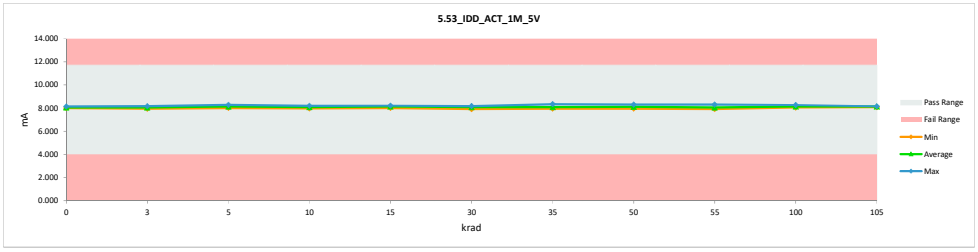
	5.53_IDD_ACT_1M_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	11.7
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.141	8.141	0.000
0	69	8.053	8.056	0.003
0	70	7.996	8.000	0.004
3	1	7.957	7.939	-0.018
3	2	7.972	7.974	0.002
3	3	8.139	8.123	-0.016
3	4	8.059	8.048	-0.011
3	5	8.195	8.169	-0.026
5	6	8.136	8.137	0.001
5	7	8.008	8.002	-0.006
5	8	8.224	8.226	0.002
5	9	8.055	8.038	-0.017
5	10	8.279	8.279	0.000
10	11	8.059	8.069	0.010
10	12	8.214	8.195	-0.019
10	13	7.993	7.974	-0.019
10	14	8.114	8.144	0.030
10	15	8.019	8.033	0.014
15	16	8.122	8.137	0.015
15	17	8.241	8.207	-0.034
15	19	8.209	8.210	0.001
15	20	8.084	8.067	-0.017
15	21	7.975	8.008	0.033
30	22	8.107	8.111	0.004
30	23	8.156	8.122	-0.034
30	24	8.031	8.023	-0.008
30	25	7.849	7.914	0.065
30	26	8.178	8.176	-0.002
35	27	8.053	8.085	0.032
35	28	8.346	8.343	-0.003
35	29	8.051	8.008	-0.043
35	30	7.933	7.948	0.015
35	31	7.991	7.966	-0.025
50	32	8.268	8.304	0.036
50	33	7.984	8.029	0.045
50	34	8.031	7.952	-0.079
50	35	8.270	8.252	-0.018
50	36	8.084	8.054	-0.030
55	37	8.220	8.152	-0.068
55	38	8.028	7.956	-0.072
55	39	7.941	7.912	-0.029
55	40	7.989	7.973	-0.016
55	41	8.288	8.302	0.014
100	42	8.211	8.147	-0.064
100	43	8.293	8.262	-0.031
100	44	8.115	8.077	-0.038
100	45	8.272	8.108	-0.164
100	46	8.108	8.048	-0.060
105	47	8.178	8.082	-0.096
105	48	8.227	8.137	-0.090
105	49	8.138	8.150	0.012
105	50	8.190	8.134	-0.056
105	51	8.144	8.127	-0.017
Max		8.346	8.343	0.065
Average		8.112	8.095	-0.017
Min		7.849	7.912	-0.164
Std Dev		0.113	0.107	0.039



	5.53_IDD_ACT_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	11.7	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	8.000	7.939	8.002	7.974	8.008	7.914	7.948	7.952	7.912	8.048	8.082
Average	8.066	8.051	8.136	8.083	8.126	8.069	8.070	8.118	8.059	8.128	8.126
Max	8.141	8.169	8.279	8.195	8.210	8.176	8.343	8.304	8.302	8.262	8.150
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

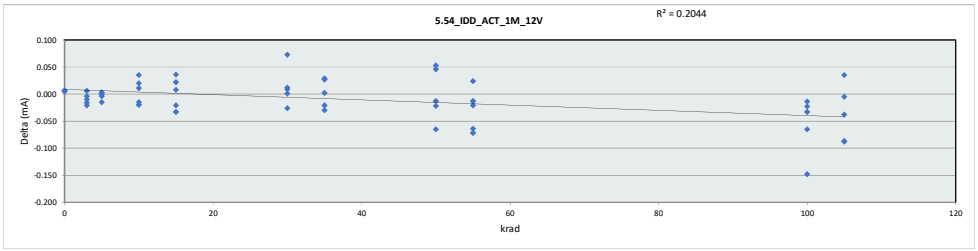


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

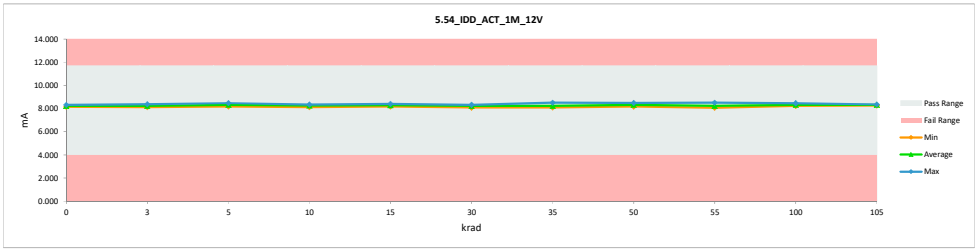
	5.54_IDD_ACT_1M_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	11.7
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.314	8.321	0.007
0	69	8.229	8.235	0.006
0	70	8.152	8.157	0.005
3	1	8.141	8.125	-0.016
3	2	8.178	8.184	0.006
3	3	8.330	8.320	-0.010
3	4	8.252	8.248	-0.004
3	5	8.407	8.386	-0.021
5	6	8.273	8.275	0.002
5	7	8.195	8.191	-0.004
5	8	8.414	8.413	-0.001
5	9	8.230	8.215	-0.015
5	10	8.468	8.471	0.003
10	11	8.237	8.248	0.011
10	12	8.355	8.340	-0.015
10	13	8.160	8.140	-0.020
10	14	8.311	8.346	0.035
10	15	8.181	8.201	0.020
15	16	8.267	8.289	0.022
15	17	8.442	8.409	-0.033
15	19	8.373	8.381	0.008
15	20	8.256	8.235	-0.021
15	21	8.157	8.193	0.036
30	22	8.279	8.291	0.012
30	23	8.299	8.273	-0.026
30	24	8.226	8.235	0.009
30	25	8.020	8.093	0.073
30	26	8.330	8.331	0.001
35	27	8.227	8.256	0.029
35	28	8.513	8.515	0.002
35	29	8.207	8.177	-0.030
35	30	8.078	8.105	0.027
35	31	8.209	8.188	-0.021
50	32	8.445	8.491	0.046
50	33	8.184	8.237	0.053
50	34	8.234	8.169	-0.065
50	35	8.467	8.454	-0.013
50	36	8.247	8.225	-0.022
55	37	8.417	8.353	-0.064
55	38	8.178	8.106	-0.072
55	39	8.091	8.070	-0.021
55	40	8.153	8.140	-0.013
55	41	8.482	8.506	0.024
100	42	8.393	8.328	-0.065
100	43	8.477	8.463	-0.014
100	44	8.288	8.265	-0.023
100	45	8.452	8.304	-0.148
100	46	8.271	8.238	-0.033
105	47	8.361	8.274	-0.087
105	48	8.430	8.342	-0.088
105	49	8.331	8.366	0.035
105	50	8.362	8.324	-0.038
105	51	8.282	8.277	-0.005
Max		8.513	8.515	0.073
Average		8.288	8.278	-0.010
Min		8.020	8.070	-0.148
Std Dev		0.117	0.111	0.038



	5.54_IDD_ACT_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	11.7	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	8.157	8.125	8.191	8.140	8.193	8.093	8.105	8.169	8.070	8.238	8.274
Average	8.238	8.253	8.313	8.255	8.301	8.245	8.248	8.315	8.235	8.320	8.317
Max	8.321	8.386	8.471	8.346	8.409	8.331	8.515	8.491	8.506	8.463	8.366
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

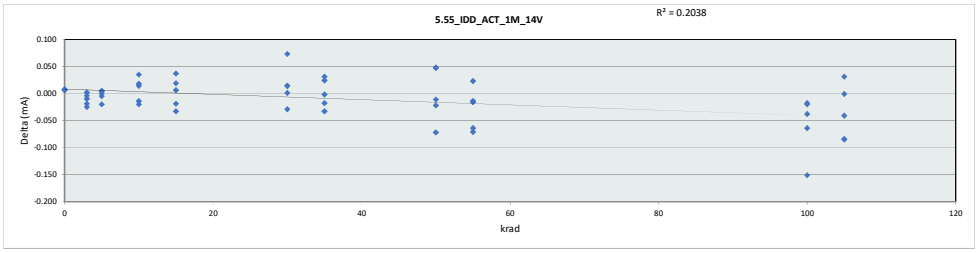


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

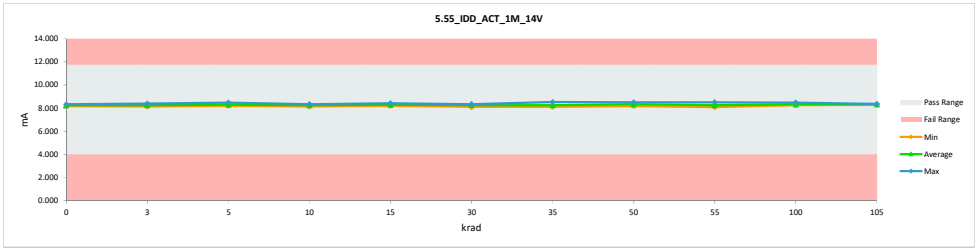
	5.55_IDD_ACT_1M_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	11.7
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.317	8.324	0.007
0	69	8.233	8.239	0.006
0	70	8.155	8.163	0.008
3	1	8.148	8.129	-0.019
3	2	8.182	8.184	0.002
3	3	8.336	8.326	-0.010
3	4	8.258	8.254	-0.004
3	5	8.413	8.388	-0.025
5	6	8.278	8.282	0.004
5	7	8.200	8.195	-0.005
5	8	8.417	8.422	0.005
5	9	8.236	8.216	-0.020
5	10	8.472	8.472	0.000
10	11	8.239	8.253	0.014
10	12	8.357	8.343	-0.014
10	13	8.167	8.147	-0.020
10	14	8.314	8.349	0.035
10	15	8.186	8.204	0.018
15	16	8.270	8.289	0.019
15	17	8.445	8.412	-0.033
15	19	8.377	8.383	0.006
15	20	8.258	8.239	-0.019
15	21	8.161	8.198	0.037
30	22	8.284	8.298	0.014
30	23	8.305	8.276	-0.029
30	24	8.228	8.242	0.014
30	25	8.025	8.098	0.073
30	26	8.336	8.337	0.001
35	27	8.230	8.261	0.031
35	28	8.518	8.516	-0.002
35	29	8.211	8.178	-0.033
35	30	8.083	8.107	0.024
35	31	8.211	8.193	-0.018
50	32	8.448	8.496	0.048
50	33	8.193	8.240	0.047
50	34	8.241	8.169	-0.072
50	35	8.468	8.457	-0.011
50	36	8.252	8.230	-0.022
55	37	8.425	8.361	-0.064
55	38	8.183	8.112	-0.071
55	39	8.093	8.077	-0.016
55	40	8.160	8.146	-0.014
55	41	8.486	8.509	0.023
100	42	8.397	8.333	-0.064
100	43	8.483	8.465	-0.018
100	44	8.292	8.272	-0.020
100	45	8.459	8.308	-0.151
100	46	8.277	8.239	-0.038
105	47	8.367	8.282	-0.085
105	48	8.434	8.350	-0.084
105	49	8.338	8.369	0.031
105	50	8.366	8.325	-0.041
105	51	8.284	8.283	-0.001
Max		8.518	8.516	0.073
Average		8.292	8.282	-0.010
Min		8.025	8.077	-0.151
Std Dev		0.117	0.111	0.039



	5.55_IDD_ACT_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	11.7	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	8.163	8.129	8.195	8.147	8.198	8.098	8.107	8.169	8.077	8.239	8.282
Average	8.242	8.256	8.317	8.259	8.304	8.250	8.251	8.318	8.241	8.323	8.322
Max	8.324	8.388	8.472	8.349	8.412	8.337	8.516	8.496	8.509	8.465	8.369
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

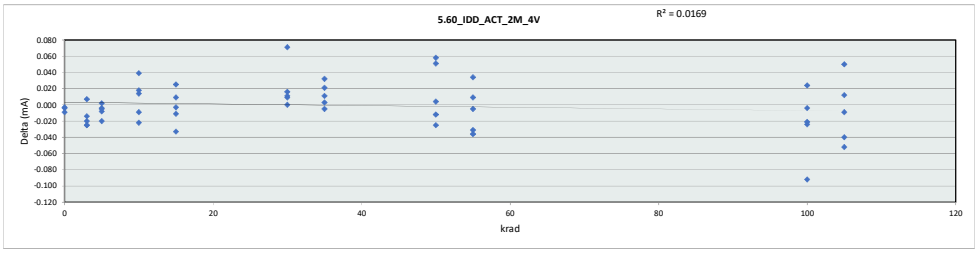


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

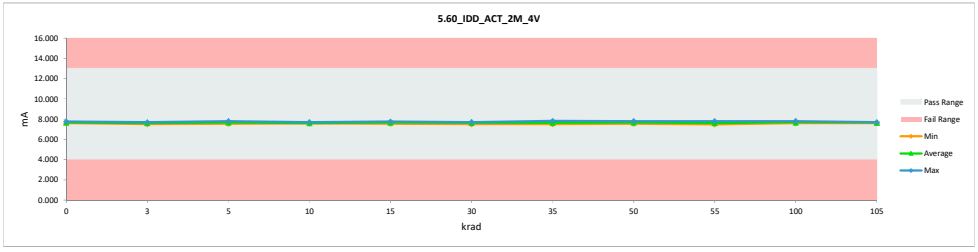
	5.60_IDD_ACT_2M_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	19.5	13
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.764	7.755	-0.009
0	69	7.651	7.647	-0.004
0	70	7.580	7.577	-0.003
3	1	7.513	7.493	-0.020
3	2	7.531	7.538	0.007
3	3	7.704	7.679	-0.025
3	4	7.668	7.654	-0.014
3	5	7.708	7.683	-0.025
5	6	7.694	7.696	0.002
5	7	7.553	7.545	-0.008
5	8	7.727	7.723	-0.004
5	9	7.638	7.618	-0.020
5	10	7.793	7.788	-0.005
10	11	7.576	7.590	0.014
10	12	7.708	7.699	-0.009
10	13	7.584	7.562	-0.022
10	14	7.612	7.651	0.039
10	15	7.544	7.562	0.018
15	16	7.683	7.692	0.009
15	17	7.783	7.750	-0.033
15	19	7.727	7.724	-0.003
15	20	7.596	7.585	-0.011
15	21	7.516	7.541	0.025
30	22	7.668	7.684	0.016
30	23	7.686	7.695	0.009
30	24	7.574	7.574	0.000
30	25	7.424	7.495	0.071
30	26	7.657	7.668	0.011
35	27	7.624	7.656	0.032
35	28	7.804	7.815	0.011
35	29	7.615	7.618	0.003
35	30	7.464	7.485	0.021
35	31	7.569	7.564	-0.005
50	32	7.739	7.790	0.051
50	33	7.557	7.615	0.058
50	34	7.571	7.546	-0.025
50	35	7.780	7.784	0.004
50	36	7.614	7.602	-0.012
55	37	7.720	7.684	-0.036
55	38	7.542	7.511	-0.031
55	39	7.467	7.462	-0.005
55	40	7.500	7.509	0.009
55	41	7.769	7.803	0.034
100	42	7.727	7.706	-0.021
100	43	7.784	7.808	0.024
100	44	7.654	7.650	-0.004
100	45	7.736	7.644	-0.092
100	46	7.604	7.580	-0.024
105	47	7.639	7.587	-0.052
105	48	7.701	7.661	-0.040
105	49	7.592	7.642	0.050
105	50	7.673	7.664	-0.009
105	51	7.678	7.690	0.012
Max		7.804	7.815	0.071
Average		7.641	7.640	-0.001
Min		7.424	7.462	-0.092
Std Dev		0.094	0.091	0.028



	5.60_IDD_ACT_2M_4V	
Test Site		
Tester		
Test Number		
Max Limit	13	mA
Min Limit	4	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.577	7.493	7.545	7.562	7.541	7.495	7.485	7.546	7.462	7.580	7.587
Average	7.660	7.609	7.674	7.613	7.658	7.623	7.628	7.667	7.594	7.678	7.649
Max	7.755	7.683	7.788	7.699	7.750	7.695	7.815	7.790	7.803	7.808	7.690
UL	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000

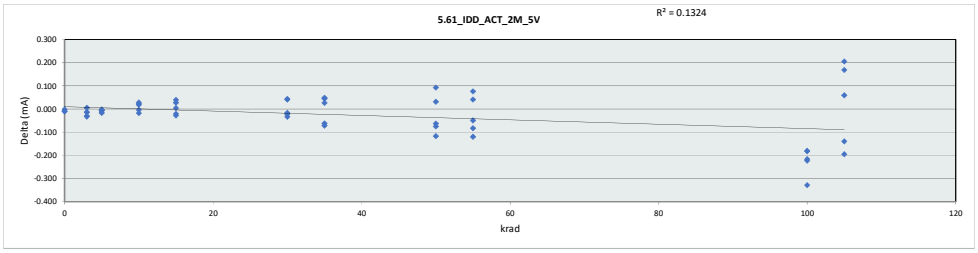


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

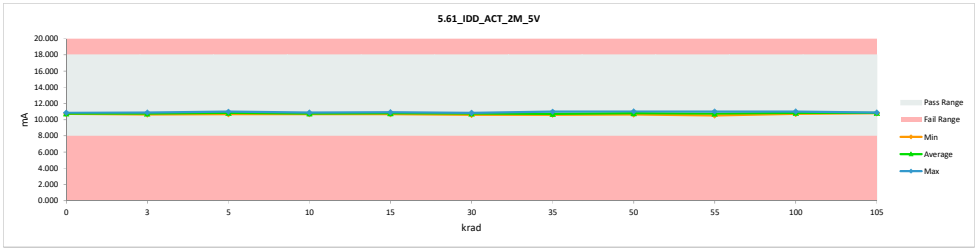
	5.61_IDD_ACT_2M_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	19.5	18
Min Limit	0	8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	10.865	10.854	-0.011
0	69	10.745	10.736	-0.009
0	70	10.717	10.715	-0.002
3	1	10.663	10.633	-0.030
3	2	10.663	10.668	0.005
3	3	10.853	10.839	-0.014
3	4	10.728	10.714	-0.014
3	5	10.917	10.884	-0.033
5	6	10.898	10.896	-0.002
5	7	10.668	10.662	-0.006
5	8	10.900	10.892	-0.008
5	9	10.708	10.691	-0.017
5	10	10.987	10.981	-0.006
10	11	10.726	10.748	0.022
10	12	10.857	10.875	0.018
10	13	10.689	10.671	-0.018
10	14	10.827	10.855	0.028
10	15	10.720	10.716	-0.004
15	16	10.775	10.802	0.027
15	17	10.929	10.901	-0.028
15	19	10.908	10.912	0.004
15	20	10.748	10.727	-0.021
15	21	10.636	10.675	0.039
30	22	10.800	10.783	-0.017
30	23	10.871	10.837	-0.034
30	24	10.647	10.624	-0.023
30	25	10.563	10.604	0.041
30	26	10.785	10.828	0.043
35	27	10.732	10.758	0.026
35	28	10.930	10.978	0.048
35	29	10.749	10.677	-0.072
35	30	10.566	10.610	0.044
35	31	10.680	10.618	-0.062
50	32	10.854	10.946	0.092
50	33	10.804	10.729	-0.075
50	34	10.743	10.626	-0.117
50	35	10.987	11.018	0.031
50	36	10.813	10.750	-0.063
55	37	10.904	10.855	-0.049
55	38	10.722	10.639	-0.083
55	39	10.630	10.510	-0.120
55	40	10.668	10.709	0.041
55	41	10.927	11.003	0.076
100	42	11.029	10.812	-0.217
100	43	11.187	11.005	-0.182
100	44	10.963	10.782	-0.181
100	45	11.107	10.778	-0.329
100	46	10.929	10.706	-0.223
105	47	10.723	10.782	0.059
105	48	10.716	10.884	0.168
105	49	10.612	10.817	0.205
105	50	11.012	10.817	-0.195
105	51	10.968	10.828	-0.140
Max		11.187	11.018	0.205
Average		10.807	10.780	-0.026
Min		10.563	10.510	-0.329
Std Dev		0.139	0.119	0.094



	5.61_IDD_ACT_2M_5V	
Test Site		
Tester		
Test Number		
Max Limit	18	mA
Min Limit	8	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000
Min	10.715	10.633	10.662	10.671	10.675	10.604	10.610	10.626	10.510	10.706	10.782
Average	10.768	10.748	10.824	10.773	10.803	10.735	10.728	10.814	10.743	10.817	10.826
Max	10.854	10.884	10.981	10.875	10.912	10.837	10.978	11.018	11.003	11.005	10.884
UL	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000

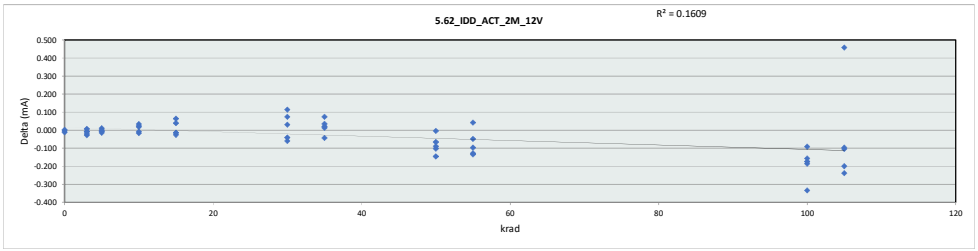


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

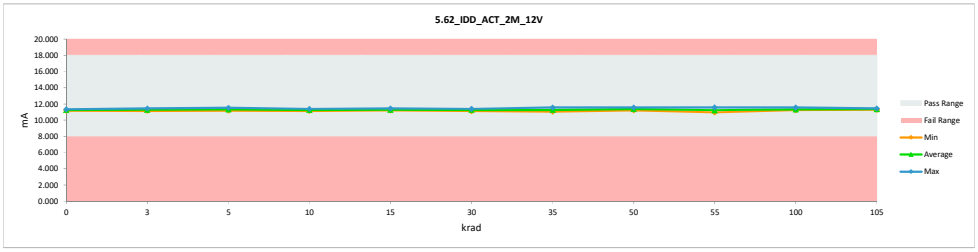
	5.62_IDD_ACT_2M_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	19.5	18
Min Limit	0	8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	11.369	11.357	-0.012
0	69	11.252	11.248	-0.004
0	70	11.178	11.180	0.002
3	1	11.173	11.152	-0.021
3	2	11.225	11.232	0.007
3	3	11.390	11.381	-0.009
3	4	11.262	11.255	-0.007
3	5	11.480	11.452	-0.028
5	6	11.322	11.333	0.011
5	7	11.185	11.179	-0.006
5	8	11.520	11.521	0.001
5	9	11.204	11.189	-0.015
5	10	11.517	11.512	-0.005
10	11	11.217	11.235	0.018
10	12	11.401	11.385	-0.016
10	13	11.167	11.159	-0.008
10	14	11.358	11.392	0.034
10	15	11.165	11.189	0.024
15	16	11.201	11.240	0.039
15	17	11.474	11.448	-0.026
15	19	11.439	11.425	-0.014
15	20	11.213	11.198	-0.015
15	21	11.139	11.203	0.064
30	22	11.351	11.291	-0.060
30	23	11.320	11.279	-0.041
30	24	11.118	11.192	0.074
30	25	11.002	11.116	0.114
30	26	11.368	11.398	0.030
35	27	11.184	11.258	0.074
35	28	11.547	11.568	0.021
35	29	11.190	11.147	-0.043
35	30	11.046	11.059	0.013
35	31	11.183	11.218	0.035
50	32	11.551	11.547	-0.004
50	33	11.389	11.299	-0.090
50	34	11.360	11.214	-0.146
50	35	11.631	11.565	-0.066
50	36	11.350	11.247	-0.103
55	37	11.512	11.415	-0.097
55	38	11.211	11.083	-0.128
55	39	11.095	10.961	-0.134
55	40	11.216	11.168	-0.048
55	41	11.533	11.575	0.042
100	42	11.520	11.334	-0.186
100	43	11.734	11.560	-0.174
100	44	11.410	11.319	-0.091
100	45	11.639	11.305	-0.334
100	46	11.386	11.229	-0.157
105	47	10.900	11.358	0.458
105	48	11.677	11.439	-0.238
105	49	11.531	11.427	-0.104
105	50	11.508	11.308	-0.200
105	51	11.380	11.283	-0.097
Max		11.734	11.575	0.458
Average		11.334	11.302	-0.031
Min		10.900	10.961	-0.334
Std Dev		0.181	0.142	0.109



	5.62_IDD_ACT_2M_12V	
Test Site		
Tester		
Test Number		
Max Limit	18	mA
Min Limit	8	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000
Min	11.180	11.152	11.179	11.159	11.198	11.116	11.059	11.214	10.961	11.229	11.283
Average	11.262	11.294	11.347	11.272	11.303	11.255	11.250	11.374	11.240	11.349	11.363
Max	11.357	11.452	11.521	11.392	11.448	11.398	11.568	11.565	11.575	11.560	11.439
UL	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000

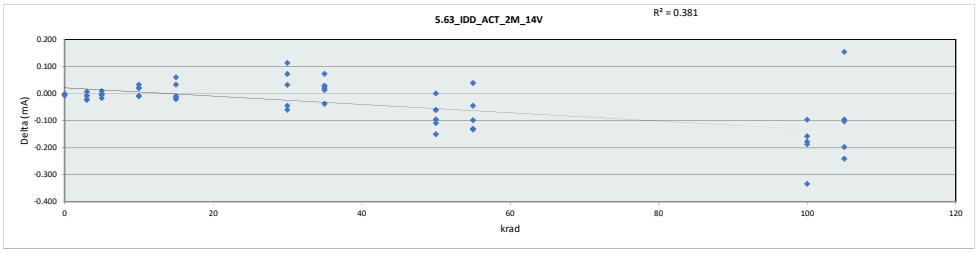


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

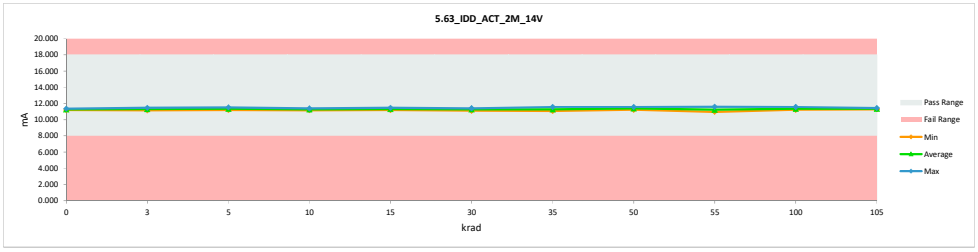
	5.63_IDD_ACT_2M_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	19.5	18
Min Limit	0	8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	11.371	11.364	-0.007
0	69	11.254	11.251	-0.003
0	70	11.183	11.181	-0.002
3	1	11.177	11.156	-0.021
3	2	11.228	11.235	0.007
3	3	11.395	11.388	-0.007
3	4	11.267	11.259	-0.008
3	5	11.482	11.458	-0.024
5	6	11.327	11.336	0.009
5	7	11.191	11.186	-0.005
5	8	11.528	11.525	-0.003
5	9	11.209	11.192	-0.017
5	10	11.519	11.517	-0.002
10	11	11.220	11.239	0.019
10	12	11.402	11.393	-0.009
10	13	11.172	11.162	-0.010
10	14	11.363	11.396	0.033
10	15	11.173	11.195	0.022
15	16	11.210	11.243	0.033
15	17	11.477	11.456	-0.021
15	19	11.439	11.429	-0.010
15	20	11.214	11.199	-0.015
15	21	11.145	11.205	0.060
30	22	11.352	11.292	-0.060
30	23	11.329	11.284	-0.045
30	24	11.123	11.195	0.072
30	25	11.007	11.120	0.113
30	26	11.368	11.400	0.032
35	27	11.189	11.262	0.073
35	28	11.551	11.571	0.020
35	29	11.192	11.154	-0.038
35	30	11.050	11.063	0.013
35	31	11.190	11.219	0.029
50	32	11.553	11.553	0.000
50	33	11.396	11.300	-0.096
50	34	11.365	11.215	-0.150
50	35	11.633	11.572	-0.061
50	36	11.358	11.249	-0.109
55	37	11.517	11.418	-0.099
55	38	11.216	11.085	-0.131
55	39	11.099	10.966	-0.133
55	40	11.219	11.174	-0.045
55	41	11.540	11.579	0.039
100	42	11.524	11.337	-0.187
100	43	11.740	11.562	-0.178
100	44	11.421	11.324	-0.097
100	45	11.643	11.309	-0.334
100	46	11.389	11.231	-0.158
105	47	11.207	11.361	0.154
105	48	11.682	11.441	-0.241
105	49	11.533	11.430	-0.103
105	50	11.511	11.313	-0.198
105	51	11.383	11.287	-0.096
Max		11.740	11.579	0.154
Average		11.344	11.306	-0.038
Min		11.007	10.966	-0.334
Std Dev		0.171	0.143	0.089



	5.63_IDD_ACT_2M_14V	
Test Site		
Tester		
Test Number		
Max Limit	18	mA
Min Limit	8	mA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000
Min	11.181	11.156	11.186	11.162	11.199	11.120	11.063	11.215	10.966	11.231	11.287
Average	11.265	11.299	11.351	11.277	11.306	11.258	11.254	11.378	11.244	11.353	11.366
Max	11.364	11.458	11.525	11.396	11.456	11.400	11.571	11.572	11.579	11.562	11.441
UL	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000

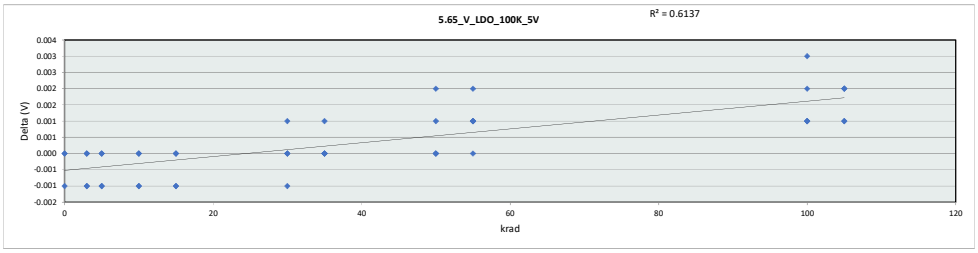


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

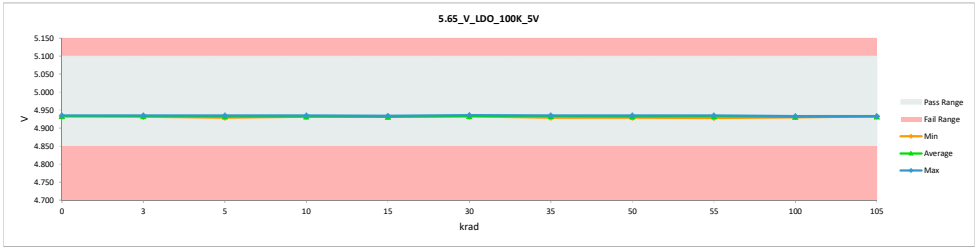
	5.65_V_LDO_100K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.1
Min Limit	4.75	4.85

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	4.933	4.933	0.000
0	69	4.933	4.932	-0.001
0	70	4.935	4.935	0.000
3	1	4.936	4.935	-0.001
3	2	4.935	4.935	0.000
3	3	4.932	4.931	-0.001
3	4	4.934	4.934	0.000
3	5	4.933	4.933	0.000
5	6	4.933	4.932	-0.001
5	7	4.935	4.935	0.000
5	8	4.932	4.932	0.000
5	9	4.933	4.933	0.000
5	10	4.930	4.929	-0.001
10	11	4.932	4.932	0.000
10	12	4.931	4.931	0.000
10	13	4.935	4.935	0.000
10	14	4.933	4.932	-0.001
10	15	4.934	4.933	-0.001
15	16	4.932	4.931	-0.001
15	17	4.931	4.931	0.000
15	19	4.931	4.931	0.000
15	20	4.932	4.932	0.000
15	21	4.935	4.934	-0.001
30	22	4.932	4.932	0.000
30	23	4.932	4.933	0.001
30	24	4.933	4.933	0.000
30	25	4.937	4.936	-0.001
30	26	4.932	4.932	0.000
35	27	4.933	4.933	0.000
35	28	4.929	4.929	0.000
35	29	4.934	4.934	0.000
35	30	4.934	4.934	0.000
35	31	4.934	4.935	0.001
50	32	4.929	4.929	0.000
50	33	4.934	4.934	0.000
50	34	4.933	4.935	0.002
50	35	4.931	4.932	0.001
50	36	4.933	4.933	0.000
55	37	4.931	4.932	0.001
55	38	4.932	4.934	0.002
55	39	4.934	4.935	0.001
55	40	4.934	4.935	0.001
55	41	4.928	4.928	0.000
100	42	4.929	4.930	0.001
100	43	4.930	4.931	0.001
100	44	4.932	4.933	0.001
100	45	4.929	4.932	0.003
100	46	4.931	4.933	0.002
105	47	4.931	4.933	0.002
105	48	4.930	4.932	0.002
105	49	4.931	4.932	0.001
105	50	4.931	4.932	0.001
105	51	4.930	4.932	0.002
	Max	4.937	4.936	0.003
	Average	4.932	4.933	0.000
	Min	4.928	4.928	-0.001
	Std Dev	0.002	0.002	0.001



	5.65_V_LDO_100K_5V	
Test Site		
Tester		
Test Number		
Max Limit	5.1	V
Min Limit	4.85	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850
Min	4.932	4.931	4.929	4.931	4.931	4.932	4.929	4.929	4.928	4.930	4.932
Average	4.933	4.934	4.932	4.933	4.932	4.933	4.933	4.933	4.933	4.932	4.932
Max	4.935	4.935	4.935	4.935	4.934	4.936	4.935	4.935	4.935	4.933	4.933
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

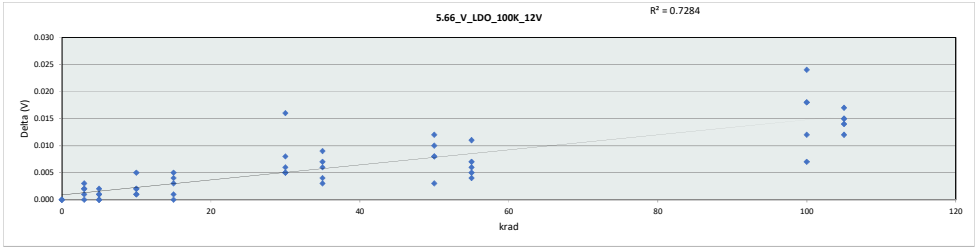


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

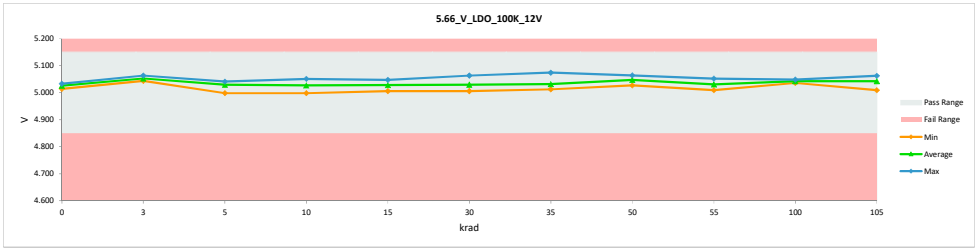
	5.66_V_LDO_100K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.85

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.030	5.030	0.000
0	69	5.033	5.033	0.000
0	70	5.014	5.014	0.000
3	1	5.042	5.044	0.002
3	2	5.059	5.059	0.000
3	3	5.043	5.045	0.002
3	4	5.048	5.051	0.003
3	5	5.062	5.063	0.001
5	6	4.996	4.998	0.002
5	7	5.041	5.041	0.000
5	8	5.040	5.041	0.001
5	9	5.030	5.030	0.000
5	10	5.038	5.039	0.001
10	11	5.031	5.032	0.001
10	12	4.997	4.998	0.001
10	13	5.025	5.027	0.002
10	14	5.049	5.051	0.002
10	15	5.020	5.025	0.005
15	16	5.003	5.006	0.003
15	17	5.046	5.047	0.001
15	19	5.019	5.023	0.004
15	20	5.024	5.024	0.000
15	21	5.037	5.042	0.005
30	22	5.026	5.034	0.008
30	23	5.000	5.006	0.006
30	24	5.047	5.063	0.016
30	25	5.029	5.034	0.005
30	26	5.006	5.011	0.005
35	27	5.025	5.028	0.003
35	28	5.016	5.020	0.004
35	29	5.017	5.023	0.006
35	30	5.003	5.012	0.009
35	31	5.067	5.074	0.007
50	32	5.027	5.035	0.008
50	33	5.055	5.058	0.003
50	34	5.052	5.064	0.012
50	35	5.043	5.051	0.008
50	36	5.017	5.027	0.010
55	37	5.046	5.052	0.006
55	38	5.004	5.009	0.005
55	39	5.009	5.020	0.011
55	40	5.020	5.024	0.004
55	41	5.040	5.047	0.007
100	42	5.029	5.036	0.007
100	43	5.030	5.048	0.018
100	44	5.026	5.044	0.018
100	45	5.033	5.045	0.012
100	46	5.018	5.042	0.024
105	47	5.033	5.047	0.014
105	48	5.044	5.056	0.012
105	49	5.045	5.062	0.017
105	50	5.026	5.041	0.015
105	51	4.994	5.009	0.015
	Max	5.067	5.074	0.024
	Average	5.029	5.036	0.006
	Min	4.994	4.998	0.000
	Std Dev	0.018	0.018	0.006



	5.66_V_LDO_100K_12V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.85	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850
Min	5.014	5.044	4.998	4.998	5.006	5.006	5.012	5.027	5.009	5.036	5.009
Average	5.026	5.052	5.030	5.027	5.028	5.030	5.031	5.047	5.030	5.043	5.043
Max	5.033	5.063	5.041	5.051	5.047	5.063	5.074	5.064	5.052	5.048	5.062
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

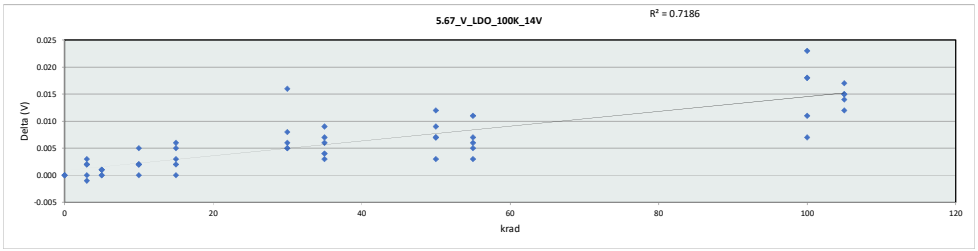


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

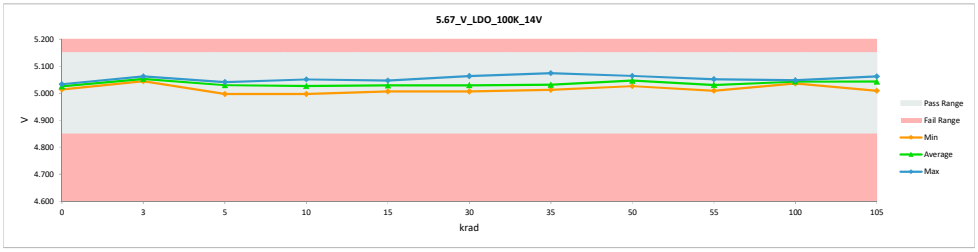
	5.67_V_LDO_100K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.85

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.030	5.030	0.000
0	69	5.033	5.033	0.000
0	70	5.014	5.014	0.000
3	1	5.042	5.044	0.002
3	2	5.060	5.059	-0.001
3	3	5.043	5.045	0.002
3	4	5.048	5.051	0.003
3	5	5.062	5.062	0.000
5	6	4.996	4.997	0.001
5	7	5.041	5.041	0.000
5	8	5.040	5.041	0.001
5	9	5.030	5.030	0.000
5	10	5.038	5.039	0.001
10	11	5.030	5.032	0.002
10	12	4.997	4.997	0.000
10	13	5.025	5.027	0.002
10	14	5.049	5.051	0.002
10	15	5.020	5.025	0.005
15	16	5.003	5.006	0.003
15	17	5.045	5.047	0.002
15	19	5.018	5.023	0.005
15	20	5.024	5.024	0.000
15	21	5.036	5.042	0.006
30	22	5.025	5.033	0.008
30	23	5.000	5.006	0.006
30	24	5.047	5.063	0.016
30	25	5.029	5.034	0.005
30	26	5.006	5.011	0.005
35	27	5.025	5.028	0.003
35	28	5.016	5.020	0.004
35	29	5.017	5.023	0.006
35	30	5.003	5.012	0.009
35	31	5.067	5.074	0.007
50	32	5.027	5.034	0.007
50	33	5.055	5.058	0.003
50	34	5.052	5.064	0.012
50	35	5.043	5.050	0.007
50	36	5.017	5.026	0.009
55	37	5.046	5.052	0.006
55	38	5.004	5.009	0.005
55	39	5.009	5.020	0.011
55	40	5.020	5.023	0.003
55	41	5.040	5.047	0.007
100	42	5.029	5.036	0.007
100	43	5.030	5.048	0.018
100	44	5.026	5.044	0.018
100	45	5.033	5.044	0.011
100	46	5.019	5.042	0.023
105	47	5.033	5.047	0.014
105	48	5.044	5.056	0.012
105	49	5.045	5.062	0.017
105	50	5.026	5.041	0.015
105	51	4.994	5.009	0.015
	Max	5.067	5.074	0.023
	Average	5.029	5.035	0.006
	Min	4.994	4.997	-0.001
	Std Dev	0.018	0.018	0.006



	5.67_V_LDO_100K_14V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.85	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850
Min	5.014	5.044	4.997	4.997	5.006	5.006	5.012	5.026	5.009	5.036	5.009
Average	5.026	5.052	5.030	5.026	5.028	5.029	5.031	5.046	5.030	5.043	5.043
Max	5.033	5.062	5.041	5.051	5.047	5.063	5.074	5.064	5.052	5.048	5.062
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

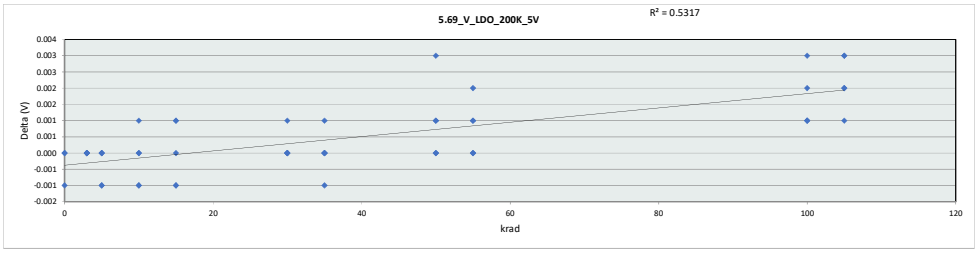


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

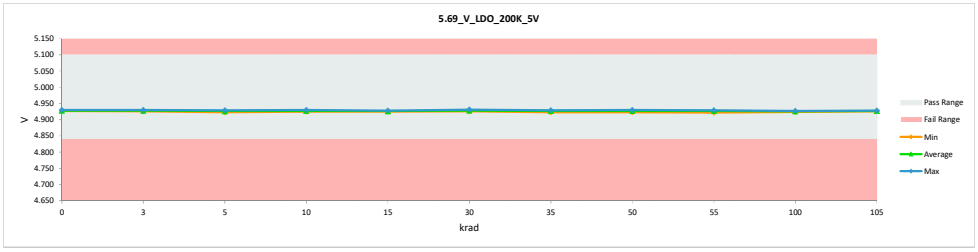
	5.69_V_LDO_200K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.1
Min Limit	4.75	4.84

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	4.927	4.927	0.000
0	69	4.928	4.927	-0.001
0	70	4.930	4.930	0.000
3	1	4.930	4.930	0.000
3	2	4.929	4.929	0.000
3	3	4.926	4.926	0.000
3	4	4.928	4.928	0.000
3	5	4.927	4.927	0.000
5	6	4.927	4.926	-0.001
5	7	4.929	4.929	0.000
5	8	4.927	4.927	0.000
5	9	4.927	4.927	0.000
5	10	4.924	4.923	-0.001
10	11	4.927	4.926	-0.001
10	12	4.925	4.925	0.000
10	13	4.929	4.930	0.001
10	14	4.927	4.926	-0.001
10	15	4.928	4.928	0.000
15	16	4.926	4.926	0.000
15	17	4.925	4.926	0.001
15	19	4.926	4.925	-0.001
15	20	4.926	4.927	0.001
15	21	4.929	4.928	-0.001
30	22	4.926	4.926	0.000
30	23	4.926	4.927	0.001
30	24	4.928	4.928	0.000
30	25	4.931	4.931	0.000
30	26	4.926	4.926	0.000
35	27	4.928	4.927	-0.001
35	28	4.923	4.923	0.000
35	29	4.928	4.928	0.000
35	30	4.929	4.929	0.000
35	31	4.928	4.929	0.001
50	32	4.923	4.923	0.000
50	33	4.928	4.928	0.000
50	34	4.927	4.930	0.003
50	35	4.925	4.926	0.001
50	36	4.927	4.928	0.001
55	37	4.925	4.926	0.001
55	38	4.926	4.928	0.002
55	39	4.928	4.929	0.001
55	40	4.929	4.929	0.000
55	41	4.922	4.922	0.000
100	42	4.923	4.924	0.001
100	43	4.924	4.925	0.001
100	44	4.926	4.927	0.001
100	45	4.923	4.926	0.003
100	46	4.925	4.927	0.002
105	47	4.925	4.928	0.003
105	48	4.924	4.927	0.003
105	49	4.925	4.926	0.001
105	50	4.924	4.926	0.002
105	51	4.925	4.927	0.002
Max		4.931	4.931	0.003
Average		4.926	4.927	0.000
Min		4.922	4.922	-0.001
Std Dev		0.002	0.002	0.001



	5.69_V_LDO_200K_5V	
Test Site		
Tester		
Test Number		
Max Limit	5.1	V
Min Limit	4.84	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840
Min	4.927	4.926	4.923	4.925	4.925	4.926	4.923	4.923	4.922	4.924	4.926
Average	4.928	4.928	4.926	4.927	4.926	4.928	4.927	4.927	4.927	4.926	4.927
Max	4.930	4.930	4.929	4.930	4.928	4.931	4.929	4.930	4.929	4.927	4.928
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

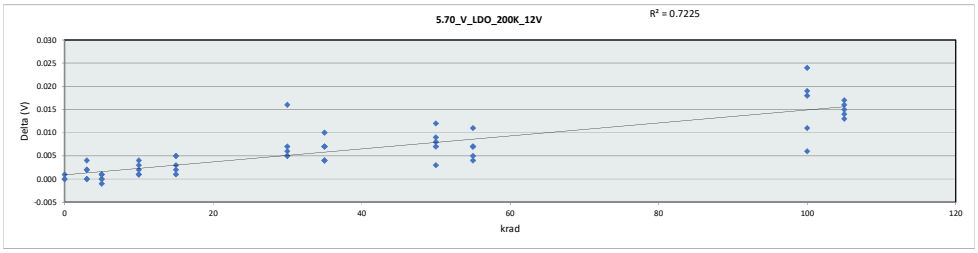


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

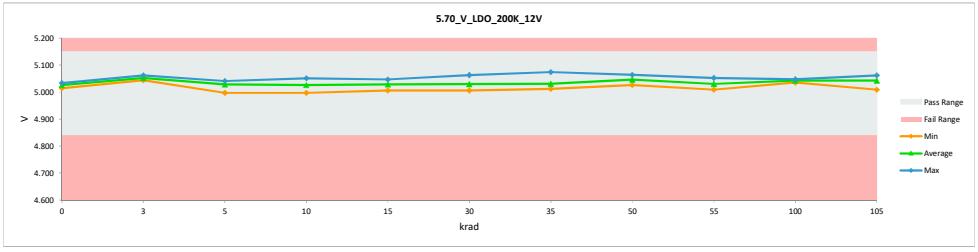
	5.70_V_LDO_200K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.84

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.030	5.030	0.000
0	69	5.033	5.033	0.000
0	70	5.013	5.014	0.001
3	1	5.042	5.044	0.002
3	2	5.059	5.059	0.000
3	3	5.043	5.045	0.002
3	4	5.047	5.051	0.004
3	5	5.062	5.062	0.000
5	6	4.996	4.997	0.001
5	7	5.041	5.040	-0.001
5	8	5.040	5.041	0.001
5	9	5.029	5.029	0.000
5	10	5.038	5.038	0.000
10	11	5.030	5.032	0.002
10	12	4.996	4.997	0.001
10	13	5.025	5.026	0.001
10	14	5.048	5.051	0.003
10	15	5.020	5.024	0.004
15	16	5.003	5.006	0.003
15	17	5.045	5.047	0.002
15	19	5.018	5.023	0.005
15	20	5.023	5.024	0.001
15	21	5.036	5.041	0.005
30	22	5.026	5.033	0.007
30	23	5.000	5.006	0.006
30	24	5.047	5.063	0.016
30	25	5.029	5.034	0.005
30	26	5.006	5.011	0.005
35	27	5.024	5.028	0.004
35	28	5.016	5.020	0.004
35	29	5.016	5.023	0.007
35	30	5.002	5.012	0.010
35	31	5.067	5.074	0.007
50	32	5.026	5.034	0.008
50	33	5.054	5.057	0.003
50	34	5.052	5.064	0.012
50	35	5.043	5.050	0.007
50	36	5.017	5.026	0.009
55	37	5.045	5.052	0.007
55	38	5.004	5.009	0.005
55	39	5.009	5.020	0.011
55	40	5.019	5.023	0.004
55	41	5.040	5.047	0.007
100	42	5.029	5.035	0.006
100	43	5.029	5.048	0.019
100	44	5.026	5.044	0.018
100	45	5.033	5.044	0.011
100	46	5.018	5.042	0.024
105	47	5.032	5.046	0.014
105	48	5.043	5.056	0.013
105	49	5.045	5.062	0.017
105	50	5.026	5.041	0.015
105	51	4.993	5.009	0.016
	Max	5.067	5.074	0.024
	Average	5.029	5.035	0.006
	Min	4.993	4.997	-0.001
	Std Dev	0.018	0.018	0.006



	5.70_V_LDO_200K_12V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.84	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840
Min	5.014	5.044	4.997	4.997	5.006	5.006	5.012	5.026	5.009	5.035	5.009
Average	5.026	5.052	5.029	5.026	5.028	5.029	5.031	5.046	5.030	5.043	5.043
Max	5.033	5.062	5.041	5.051	5.047	5.063	5.074	5.064	5.052	5.048	5.062
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

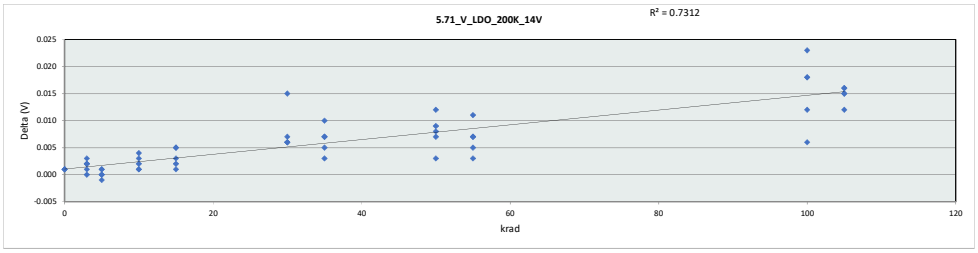


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

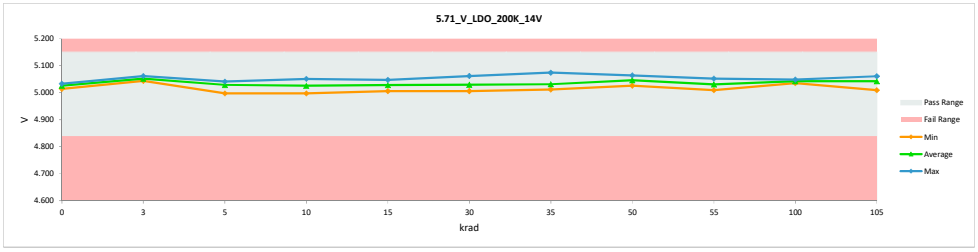
	5.71_V_LDO_200K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.84

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.029	5.030	0.001
0	69	5.032	5.033	0.001
0	70	5.013	5.014	0.001
3	1	5.042	5.044	0.002
3	2	5.059	5.059	0.000
3	3	5.043	5.045	0.002
3	4	5.047	5.050	0.003
3	5	5.061	5.062	0.001
5	6	4.996	4.997	0.001
5	7	5.041	5.040	-0.001
5	8	5.040	5.041	0.001
5	9	5.029	5.029	0.000
5	10	5.038	5.038	0.000
10	11	5.030	5.032	0.002
10	12	4.996	4.997	0.001
10	13	5.025	5.026	0.001
10	14	5.048	5.051	0.003
10	15	5.020	5.024	0.004
15	16	5.003	5.006	0.003
15	17	5.045	5.047	0.002
15	19	5.018	5.023	0.005
15	20	5.023	5.024	0.001
15	21	5.036	5.041	0.005
30	22	5.026	5.033	0.007
30	23	5.000	5.006	0.006
30	24	5.047	5.062	0.015
30	25	5.028	5.034	0.006
30	26	5.005	5.011	0.006
35	27	5.024	5.027	0.003
35	28	5.015	5.020	0.005
35	29	5.016	5.023	0.007
35	30	5.002	5.012	0.010
35	31	5.067	5.074	0.007
50	32	5.026	5.034	0.008
50	33	5.054	5.057	0.003
50	34	5.052	5.064	0.012
50	35	5.043	5.050	0.007
50	36	5.017	5.026	0.009
55	37	5.045	5.052	0.007
55	38	5.004	5.009	0.005
55	39	5.008	5.019	0.011
55	40	5.020	5.023	0.003
55	41	5.040	5.047	0.007
100	42	5.029	5.035	0.006
100	43	5.030	5.048	0.018
100	44	5.025	5.043	0.018
100	45	5.032	5.044	0.012
100	46	5.018	5.041	0.023
105	47	5.032	5.047	0.015
105	48	5.043	5.055	0.012
105	49	5.045	5.061	0.016
105	50	5.026	5.041	0.015
105	51	4.993	5.009	0.016
	Max	5.067	5.074	0.023
	Average	5.029	5.035	0.006
	Min	4.993	4.997	-0.001
	Std Dev	0.018	0.018	0.006



	5.71_V_LDO_200K_14V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.84	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840	4.840
Min	5.014	5.044	4.997	4.997	5.006	5.006	5.012	5.026	5.009	5.035	5.009
Average	5.026	5.052	5.029	5.026	5.028	5.029	5.031	5.046	5.030	5.042	5.043
Max	5.033	5.062	5.041	5.051	5.047	5.062	5.074	5.064	5.052	5.048	5.061
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

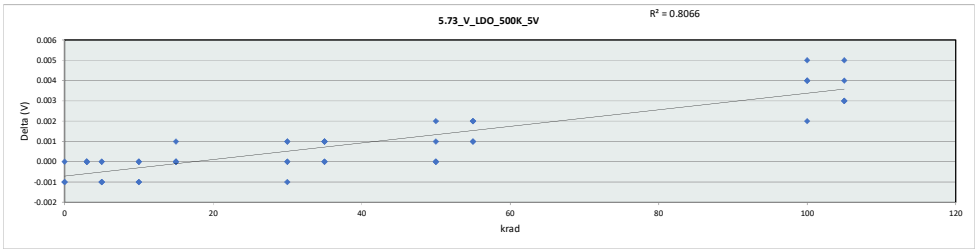


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

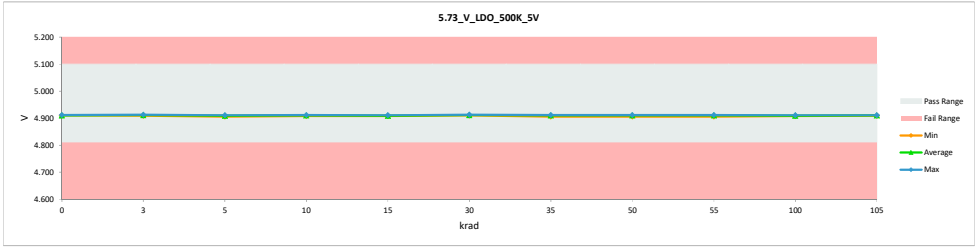
	5.73_V_LDO_500K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.1
Min Limit	4.75	4.81

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	4.911	4.910	-0.001
0	69	4.910	4.910	0.000
0	70	4.913	4.912	-0.001
3	1	4.913	4.913	0.000
3	2	4.912	4.912	0.000
3	3	4.909	4.909	0.000
3	4	4.911	4.911	0.000
3	5	4.910	4.910	0.000
5	6	4.910	4.910	0.000
5	7	4.912	4.911	-0.001
5	8	4.910	4.909	-0.001
5	9	4.911	4.910	-0.001
5	10	4.906	4.906	0.000
10	11	4.909	4.909	0.000
10	12	4.908	4.908	0.000
10	13	4.912	4.912	0.000
10	14	4.911	4.910	-0.001
10	15	4.912	4.911	-0.001
15	16	4.909	4.909	0.000
15	17	4.908	4.909	0.001
15	19	4.908	4.908	0.000
15	20	4.909	4.909	0.000
15	21	4.911	4.911	0.000
30	22	4.909	4.910	0.001
30	23	4.910	4.910	0.000
30	24	4.911	4.911	0.000
30	25	4.914	4.913	-0.001
30	26	4.909	4.910	0.001
35	27	4.910	4.910	0.000
35	28	4.905	4.906	0.001
35	29	4.911	4.912	0.001
35	30	4.911	4.911	0.000
35	31	4.911	4.912	0.001
50	32	4.906	4.906	0.000
50	33	4.911	4.911	0.000
50	34	4.910	4.912	0.002
50	35	4.909	4.909	0.000
50	36	4.910	4.911	0.001
55	37	4.908	4.910	0.002
55	38	4.909	4.911	0.002
55	39	4.911	4.912	0.001
55	40	4.911	4.912	0.001
55	41	4.904	4.906	0.002
100	42	4.904	4.908	0.004
100	43	4.905	4.909	0.004
100	44	4.907	4.911	0.004
100	45	4.904	4.909	0.005
100	46	4.908	4.910	0.002
105	47	4.907	4.911	0.004
105	48	4.906	4.909	0.003
105	49	4.907	4.910	0.003
105	50	4.905	4.910	0.005
105	51	4.907	4.910	0.003
Max		4.914	4.913	0.005
Average		4.909	4.910	0.001
Min		4.904	4.906	-0.001
Std Dev		0.002	0.002	0.002



	5.73_V_LDO_500K_5V	
Test Site		
Tester		
Test Number		
Max Limit	5.1	V
Min Limit	4.81	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810
Min	4.910	4.909	4.906	4.908	4.908	4.910	4.906	4.906	4.906	4.908	4.909
Average	4.911	4.911	4.909	4.910	4.909	4.911	4.910	4.910	4.910	4.909	4.910
Max	4.912	4.913	4.911	4.912	4.911	4.913	4.912	4.912	4.912	4.911	4.911
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

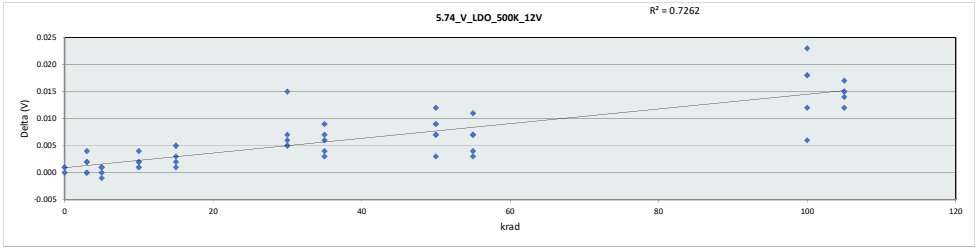


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

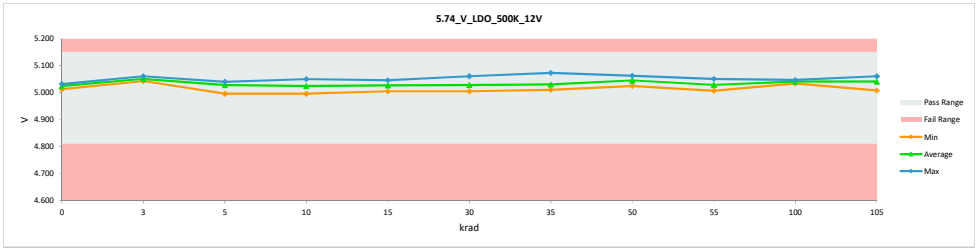
	5.74_V_LDO_500K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.81

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.029	5.029	0.000
0	69	5.031	5.032	0.001
0	70	5.012	5.013	0.001
3	1	5.041	5.043	0.002
3	2	5.058	5.058	0.000
3	3	5.042	5.044	0.002
3	4	5.046	5.050	0.004
3	5	5.061	5.061	0.000
5	6	4.995	4.996	0.001
5	7	5.040	5.039	-0.001
5	8	5.039	5.040	0.001
5	9	5.028	5.028	0.000
5	10	5.036	5.037	0.001
10	11	5.029	5.031	0.002
10	12	4.995	4.996	0.001
10	13	5.024	5.025	0.001
10	14	5.048	5.050	0.002
10	15	5.019	5.023	0.004
15	16	5.002	5.005	0.003
15	17	5.044	5.046	0.002
15	19	5.017	5.022	0.005
15	20	5.022	5.023	0.001
15	21	5.035	5.040	0.005
30	22	5.025	5.032	0.007
30	23	4.999	5.005	0.006
30	24	5.046	5.061	0.015
30	25	5.028	5.033	0.005
30	26	5.005	5.010	0.005
35	27	5.023	5.026	0.003
35	28	5.015	5.019	0.004
35	29	5.016	5.022	0.006
35	30	5.002	5.011	0.009
35	31	5.066	5.073	0.007
50	32	5.026	5.033	0.007
50	33	5.053	5.056	0.003
50	34	5.051	5.063	0.012
50	35	5.042	5.049	0.007
50	36	5.016	5.025	0.009
55	37	5.044	5.051	0.007
55	38	5.003	5.007	0.004
55	39	5.007	5.018	0.011
55	40	5.019	5.022	0.003
55	41	5.039	5.046	0.007
100	42	5.028	5.034	0.006
100	43	5.029	5.047	0.018
100	44	5.024	5.042	0.018
100	45	5.031	5.043	0.012
100	46	5.018	5.041	0.023
105	47	5.031	5.045	0.014
105	48	5.042	5.054	0.012
105	49	5.044	5.061	0.017
105	50	5.025	5.040	0.015
105	51	4.993	5.008	0.015
Max		5.066	5.073	0.023
Average		5.028	5.034	0.006
Min		4.993	4.996	-0.001
Std Dev		0.018	0.018	0.006



	5.74_V_LDO_500K_12V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.81	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810
Min	5.013	5.043	4.996	4.996	5.005	5.005	5.011	5.025	5.007	5.034	5.008
Average	5.025	5.051	5.028	5.025	5.027	5.028	5.030	5.045	5.029	5.041	5.042
Max	5.032	5.061	5.040	5.050	5.046	5.061	5.073	5.063	5.051	5.047	5.061
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

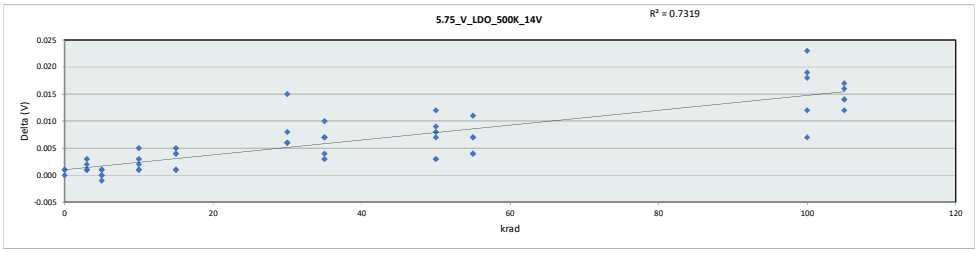


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

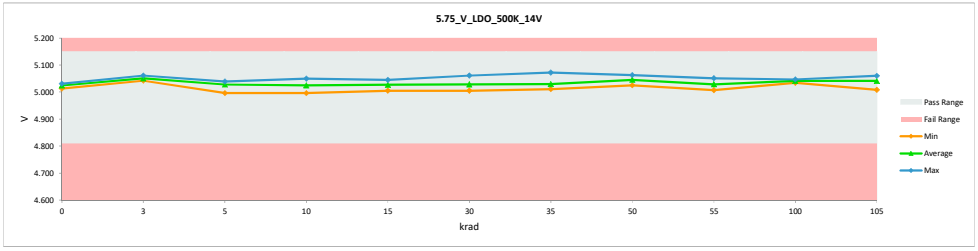
	5.75_V_LDO_500K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.81

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.028	5.029	0.001
0	69	5.031	5.031	0.000
0	70	5.012	5.013	0.001
3	1	5.040	5.042	0.002
3	2	5.057	5.058	0.001
3	3	5.042	5.043	0.001
3	4	5.046	5.049	0.003
3	5	5.060	5.061	0.001
5	6	4.995	4.996	0.001
5	7	5.040	5.039	-0.001
5	8	5.039	5.039	0.000
5	9	5.028	5.028	0.000
5	10	5.036	5.037	0.001
10	11	5.029	5.031	0.002
10	12	4.995	4.996	0.001
10	13	5.024	5.025	0.001
10	14	5.047	5.050	0.003
10	15	5.018	5.023	0.005
15	16	5.001	5.005	0.004
15	17	5.044	5.045	0.001
15	19	5.017	5.021	0.004
15	20	5.022	5.023	0.001
15	21	5.035	5.040	0.005
30	22	5.024	5.032	0.008
30	23	4.999	5.005	0.006
30	24	5.046	5.061	0.015
30	25	5.027	5.033	0.006
30	26	5.004	5.010	0.006
35	27	5.023	5.026	0.003
35	28	5.015	5.019	0.004
35	29	5.015	5.022	0.007
35	30	5.001	5.011	0.010
35	31	5.065	5.072	0.007
50	32	5.025	5.033	0.008
50	33	5.053	5.056	0.003
50	34	5.051	5.063	0.012
50	35	5.042	5.049	0.007
50	36	5.016	5.025	0.009
55	37	5.044	5.051	0.007
55	38	5.003	5.007	0.004
55	39	5.007	5.018	0.011
55	40	5.018	5.022	0.004
55	41	5.039	5.046	0.007
100	42	5.027	5.034	0.007
100	43	5.028	5.047	0.019
100	44	5.024	5.042	0.018
100	45	5.031	5.043	0.012
100	46	5.017	5.040	0.023
105	47	5.031	5.045	0.014
105	48	5.042	5.054	0.012
105	49	5.043	5.060	0.017
105	50	5.025	5.039	0.014
105	51	4.992	5.008	0.016
Max		5.065	5.072	0.023
Average		5.028	5.034	0.006
Min		4.992	4.996	-0.001
Std Dev		0.018	0.018	0.006



	5.75_V_LDO_500K_14V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.81	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810	4.810
Min	5.013	5.042	4.996	4.996	5.005	5.005	5.011	5.025	5.007	5.034	5.008
Average	5.024	5.051	5.028	5.025	5.027	5.028	5.030	5.045	5.029	5.041	5.041
Max	5.031	5.061	5.039	5.050	5.045	5.061	5.072	5.063	5.051	5.047	5.060
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

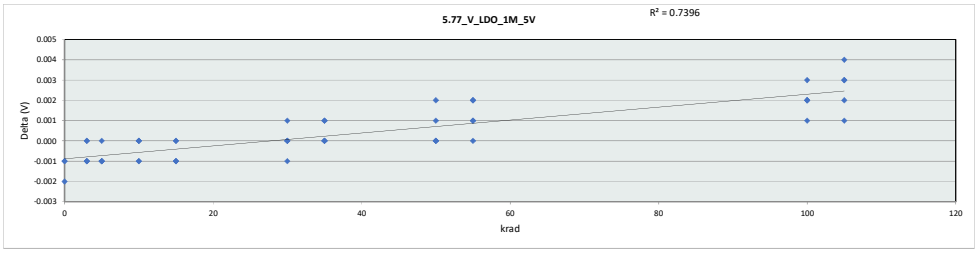


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

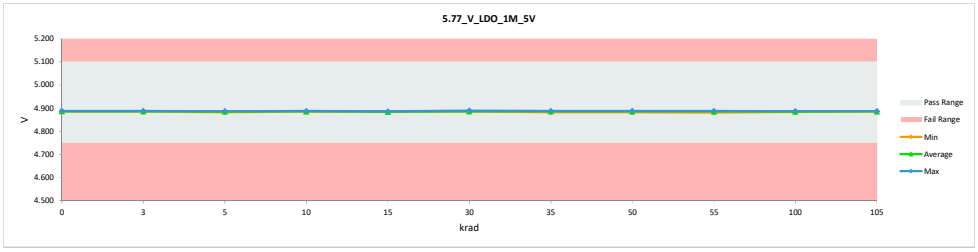
	5.77_V_LDO_1M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.1
Min Limit	4.75	4.75

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	4.888	4.886	-0.002
0	69	4.886	4.885	-0.001
0	70	4.889	4.888	-0.001
3	1	4.889	4.888	-0.001
3	2	4.888	4.888	0.000
3	3	4.884	4.884	0.000
3	4	4.888	4.887	-0.001
3	5	4.886	4.885	-0.001
5	6	4.886	4.885	-0.001
5	7	4.887	4.887	0.000
5	8	4.886	4.885	-0.001
5	9	4.887	4.886	-0.001
5	10	4.883	4.882	-0.001
10	11	4.885	4.885	0.000
10	12	4.884	4.884	0.000
10	13	4.888	4.888	0.000
10	14	4.887	4.886	-0.001
10	15	4.888	4.887	-0.001
15	16	4.885	4.884	-0.001
15	17	4.884	4.884	0.000
15	19	4.884	4.883	-0.001
15	20	4.885	4.885	0.000
15	21	4.887	4.886	-0.001
30	22	4.885	4.885	0.000
30	23	4.885	4.886	0.001
30	24	4.887	4.887	0.000
30	25	4.890	4.889	-0.001
30	26	4.885	4.885	0.000
35	27	4.886	4.886	0.000
35	28	4.882	4.882	0.000
35	29	4.887	4.888	0.001
35	30	4.887	4.887	0.000
35	31	4.887	4.888	0.001
50	32	4.882	4.882	0.000
50	33	4.887	4.887	0.000
50	34	4.886	4.888	0.002
50	35	4.885	4.886	0.001
50	36	4.886	4.886	0.000
55	37	4.884	4.886	0.002
55	38	4.884	4.886	0.002
55	39	4.887	4.888	0.001
55	40	4.887	4.888	0.001
55	41	4.881	4.881	0.000
100	42	4.882	4.883	0.001
100	43	4.882	4.884	0.002
100	44	4.885	4.887	0.002
100	45	4.882	4.885	0.003
100	46	4.884	4.886	0.002
105	47	4.883	4.887	0.004
105	48	4.882	4.885	0.003
105	49	4.884	4.885	0.001
105	50	4.883	4.886	0.003
105	51	4.883	4.885	0.002
Max		4.890	4.889	0.004
Average		4.885	4.886	0.000
Min		4.881	4.881	-0.002
Std Dev		0.002	0.002	0.001



	5.77_V_LDO_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	5.1	V
Min Limit	4.75	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750	4.750
Min	4.885	4.884	4.882	4.884	4.883	4.885	4.882	4.882	4.881	4.883	4.885
Average	4.886	4.886	4.885	4.886	4.884	4.886	4.886	4.886	4.886	4.885	4.886
Max	4.888	4.888	4.887	4.888	4.886	4.889	4.888	4.888	4.888	4.887	4.887
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

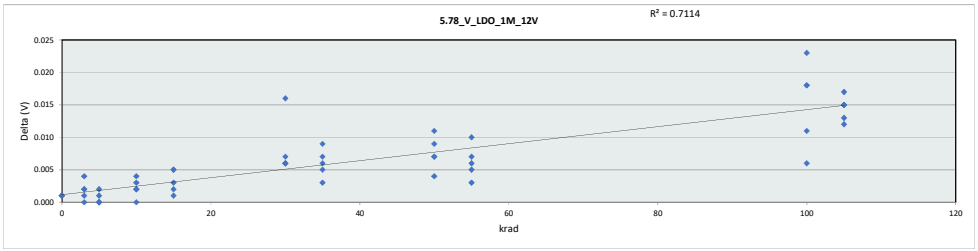


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

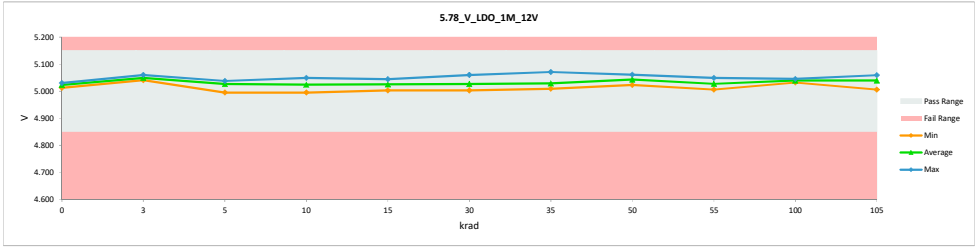
	5.78_V_LDO_1M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.85

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.027	5.028	0.001
0	69	5.029	5.030	0.001
0	70	5.011	5.012	0.001
3	1	5.039	5.041	0.002
3	2	5.056	5.056	0.000
3	3	5.040	5.042	0.002
3	4	5.044	5.048	0.004
3	5	5.059	5.060	0.001
5	6	4.993	4.995	0.002
5	7	5.038	5.038	0.000
5	8	5.037	5.038	0.001
5	9	5.027	5.027	0.000
5	10	5.035	5.035	0.000
10	11	5.028	5.030	0.002
10	12	4.993	4.995	0.002
10	13	5.023	5.023	0.000
10	14	5.046	5.049	0.003
10	15	5.017	5.021	0.004
15	16	5.000	5.003	0.003
15	17	5.042	5.044	0.002
15	19	5.015	5.020	0.005
15	20	5.020	5.021	0.001
15	21	5.033	5.038	0.005
30	22	5.023	5.030	0.007
30	23	4.997	5.003	0.006
30	24	5.044	5.060	0.016
30	25	5.026	5.032	0.006
30	26	5.003	5.009	0.006
35	27	5.022	5.025	0.003
35	28	5.013	5.018	0.005
35	29	5.014	5.020	0.006
35	30	5.000	5.009	0.009
35	31	5.064	5.071	0.007
50	32	5.024	5.031	0.007
50	33	5.051	5.055	0.004
50	34	5.050	5.061	0.011
50	35	5.040	5.047	0.007
50	36	5.014	5.023	0.009
55	37	5.043	5.049	0.006
55	38	5.001	5.006	0.005
55	39	5.006	5.016	0.010
55	40	5.017	5.020	0.003
55	41	5.037	5.044	0.007
100	42	5.026	5.032	0.006
100	43	5.027	5.045	0.018
100	44	5.022	5.040	0.018
100	45	5.030	5.041	0.011
100	46	5.016	5.039	0.023
105	47	5.030	5.043	0.013
105	48	5.040	5.052	0.012
105	49	5.042	5.059	0.017
105	50	5.023	5.038	0.015
105	51	4.991	5.006	0.015
	Max	5.064	5.071	0.023
	Average	5.026	5.032	0.006
	Min	4.991	4.995	0.000
	Std Dev	0.018	0.018	0.006



	5.78_V_LDO_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.85	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850
Min	5.012	5.041	4.995	4.995	5.003	5.003	5.009	5.023	5.006	5.032	5.006
Average	5.023	5.049	5.027	5.024	5.025	5.027	5.029	5.043	5.027	5.039	5.040
Max	5.030	5.060	5.038	5.049	5.044	5.060	5.071	5.061	5.049	5.045	5.059
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

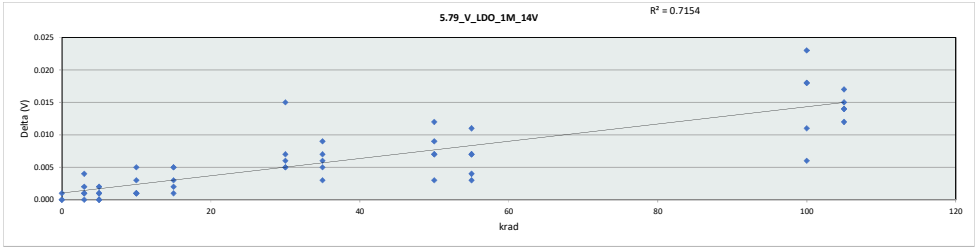


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

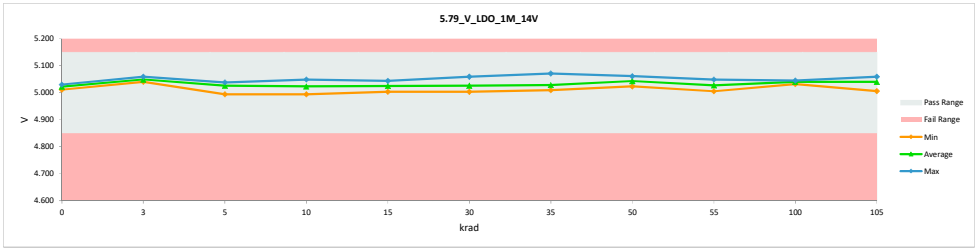
	5.79_V_LDO_1M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.75	4.85

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.027	5.027	0.000
0	69	5.029	5.030	0.001
0	70	5.011	5.011	0.000
3	1	5.039	5.040	0.001
3	2	5.055	5.056	0.001
3	3	5.040	5.042	0.002
3	4	5.044	5.048	0.004
3	5	5.059	5.059	0.000
5	6	4.993	4.994	0.001
5	7	5.038	5.038	0.000
5	8	5.036	5.038	0.002
5	9	5.026	5.026	0.000
5	10	5.034	5.035	0.001
10	11	5.028	5.029	0.001
10	12	4.993	4.994	0.001
10	13	5.022	5.023	0.001
10	14	5.046	5.049	0.003
10	15	5.016	5.021	0.005
15	16	5.000	5.003	0.003
15	17	5.042	5.044	0.002
15	19	5.015	5.020	0.005
15	20	5.020	5.021	0.001
15	21	5.033	5.038	0.005
30	22	5.023	5.030	0.007
30	23	4.997	5.003	0.006
30	24	5.044	5.059	0.015
30	25	5.026	5.031	0.005
30	26	5.003	5.008	0.005
35	27	5.021	5.024	0.003
35	28	5.013	5.018	0.005
35	29	5.014	5.020	0.006
35	30	5.000	5.009	0.009
35	31	5.064	5.071	0.007
50	32	5.024	5.031	0.007
50	33	5.051	5.054	0.003
50	34	5.049	5.061	0.012
50	35	5.040	5.047	0.007
50	36	5.014	5.023	0.009
55	37	5.042	5.049	0.007
55	38	5.001	5.005	0.004
55	39	5.005	5.016	0.011
55	40	5.017	5.020	0.003
55	41	5.037	5.044	0.007
100	42	5.026	5.032	0.006
100	43	5.027	5.045	0.018
100	44	5.022	5.040	0.018
100	45	5.030	5.041	0.011
100	46	5.016	5.039	0.023
105	47	5.029	5.043	0.014
105	48	5.040	5.052	0.012
105	49	5.042	5.059	0.017
105	50	5.023	5.037	0.014
105	51	4.991	5.006	0.015
Max		5.064	5.071	0.023
Average		5.026	5.032	0.006
Min		4.991	4.994	0.000
Std Dev		0.018	0.018	0.006



	5.79_V_LDO_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.85	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850	4.850
Min	5.011	5.040	4.994	4.994	5.003	5.003	5.009	5.023	5.005	5.032	5.006
Average	5.023	5.049	5.026	5.023	5.025	5.026	5.028	5.043	5.027	5.039	5.039
Max	5.030	5.059	5.038	5.049	5.044	5.059	5.071	5.061	5.049	5.045	5.059
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

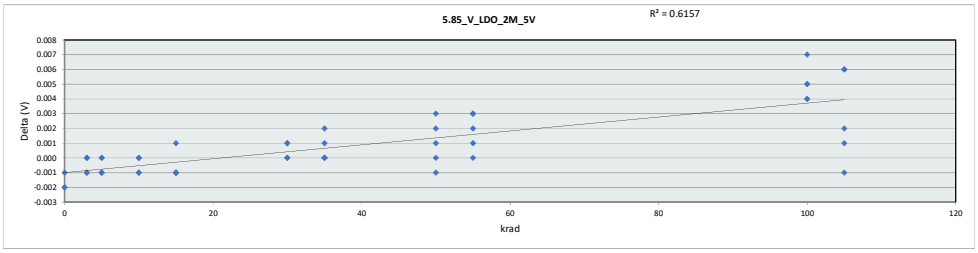


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

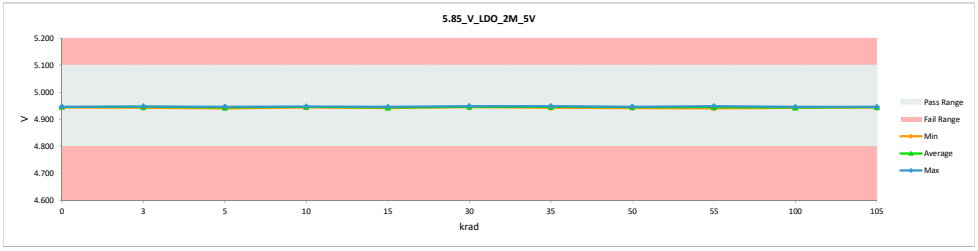
	5.85_V_LDO_2M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.1
Min Limit	4.65	4.8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	4.947	4.945	-0.002
0	69	4.945	4.943	-0.002
0	70	4.947	4.946	-0.001
3	1	4.947	4.947	0.000
3	2	4.947	4.947	0.000
3	3	4.943	4.942	-0.001
3	4	4.947	4.946	-0.001
3	5	4.944	4.944	0.000
5	6	4.944	4.943	-0.001
5	7	4.946	4.946	0.000
5	8	4.945	4.944	-0.001
5	9	4.945	4.945	0.000
5	10	4.941	4.940	-0.001
10	11	4.943	4.943	0.000
10	12	4.943	4.943	0.000
10	13	4.947	4.947	0.000
10	14	4.946	4.945	-0.001
10	15	4.947	4.946	-0.001
15	16	4.944	4.943	-0.001
15	17	4.942	4.943	0.001
15	19	4.942	4.941	-0.001
15	20	4.944	4.943	-0.001
15	21	4.946	4.945	-0.001
30	22	4.943	4.944	0.001
30	23	4.944	4.945	0.001
30	24	4.947	4.947	0.000
30	25	4.948	4.948	0.000
30	26	4.945	4.945	0.000
35	27	4.944	4.944	0.000
35	28	4.942	4.942	0.000
35	29	4.946	4.948	0.002
35	30	4.946	4.946	0.000
35	31	4.946	4.947	0.001
50	32	4.942	4.941	-0.001
50	33	4.944	4.945	0.001
50	34	4.943	4.946	0.003
50	35	4.944	4.944	0.000
50	36	4.943	4.945	0.002
55	37	4.943	4.945	0.002
55	38	4.941	4.944	0.003
55	39	4.945	4.948	0.003
55	40	4.945	4.946	0.001
55	41	4.939	4.939	0.000
100	42	4.937	4.942	0.005
100	43	4.938	4.942	0.004
100	44	4.941	4.945	0.004
100	45	4.937	4.944	0.007
100	46	4.940	4.945	0.005
105	47	4.943	4.945	0.002
105	48	4.942	4.943	0.001
105	49	4.945	4.944	-0.001
105	50	4.939	4.945	0.006
105	51	4.938	4.944	0.006
	Max	4.948	4.948	0.007
	Average	4.944	4.944	0.001
	Min	4.937	4.939	-0.002
	Std Dev	0.003	0.002	0.002



	5.85_V_LDO_2M_5V	
Test Site		
Tester		
Test Number		
Max Limit	5.1	V
Min Limit	4.8	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800
Min	4.943	4.942	4.940	4.943	4.941	4.944	4.942	4.941	4.939	4.942	4.943
Average	4.945	4.945	4.944	4.945	4.943	4.946	4.945	4.944	4.944	4.944	4.944
Max	4.946	4.947	4.946	4.947	4.945	4.948	4.948	4.946	4.948	4.945	4.945
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

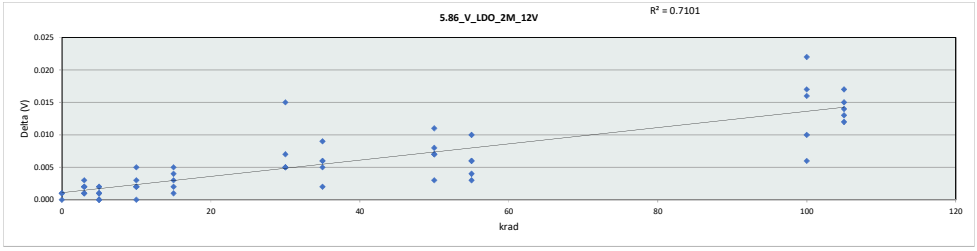


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

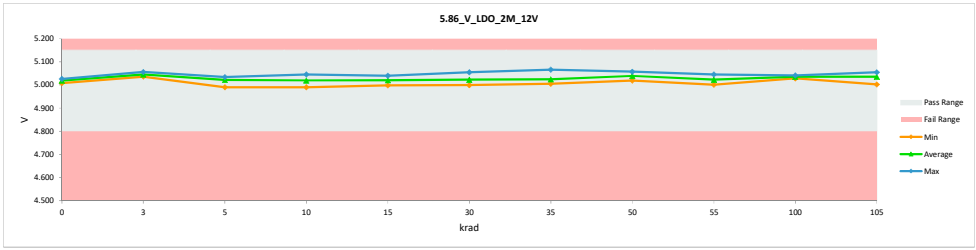
	5.86_V_LDO_2M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.65	4.8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.023	5.024	0.001
0	69	5.025	5.026	0.001
0	70	5.008	5.008	0.000
3	1	5.034	5.036	0.002
3	2	5.051	5.052	0.001
3	3	5.037	5.039	0.002
3	4	5.041	5.044	0.003
3	5	5.055	5.056	0.001
5	6	4.988	4.990	0.002
5	7	5.034	5.034	0.000
5	8	5.032	5.033	0.001
5	9	5.022	5.022	0.000
5	10	5.030	5.031	0.001
10	11	5.024	5.026	0.002
10	12	4.988	4.990	0.002
10	13	5.019	5.019	0.000
10	14	5.042	5.045	0.003
10	15	5.012	5.017	0.005
15	16	4.995	4.998	0.003
15	17	5.039	5.040	0.001
15	19	5.012	5.017	0.005
15	20	5.015	5.017	0.002
15	21	5.029	5.033	0.004
30	22	5.019	5.026	0.007
30	23	4.994	4.999	0.005
30	24	5.040	5.055	0.015
30	25	5.023	5.028	0.005
30	26	4.999	5.004	0.005
35	27	5.018	5.020	0.002
35	28	5.008	5.013	0.005
35	29	5.011	5.017	0.006
35	30	4.996	5.005	0.009
35	31	5.060	5.066	0.006
50	32	5.020	5.027	0.007
50	33	5.047	5.050	0.003
50	34	5.046	5.057	0.011
50	35	5.036	5.043	0.007
50	36	5.011	5.019	0.008
55	37	5.039	5.045	0.006
55	38	4.997	5.001	0.004
55	39	5.001	5.011	0.010
55	40	5.013	5.016	0.003
55	41	5.034	5.040	0.006
100	42	5.022	5.028	0.006
100	43	5.024	5.041	0.017
100	44	5.019	5.035	0.016
100	45	5.026	5.036	0.010
100	46	5.013	5.035	0.022
105	47	5.025	5.038	0.013
105	48	5.036	5.048	0.012
105	49	5.038	5.055	0.017
105	50	5.019	5.034	0.015
105	51	4.988	5.002	0.014
	Max	5.060	5.066	0.022
	Average	5.022	5.028	0.006
	Min	4.988	4.990	0.000
	Std Dev	0.018	0.018	0.005



	5.86_V_LDO_2M_12V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.8	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800
Min	5.008	5.036	4.990	4.990	4.998	4.999	5.005	5.019	5.001	5.028	5.002
Average	5.019	5.045	5.022	5.019	5.021	5.022	5.024	5.039	5.023	5.035	5.035
Max	5.026	5.056	5.034	5.045	5.040	5.055	5.066	5.057	5.045	5.041	5.055
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

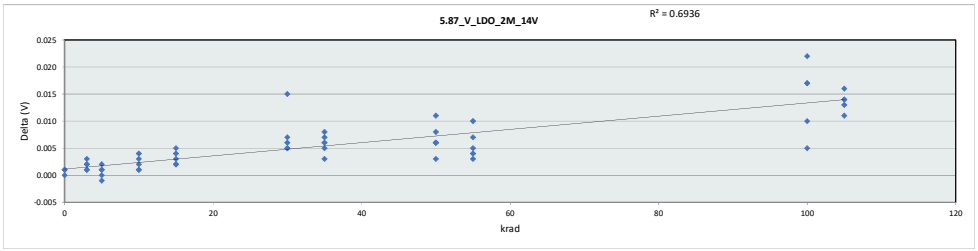


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

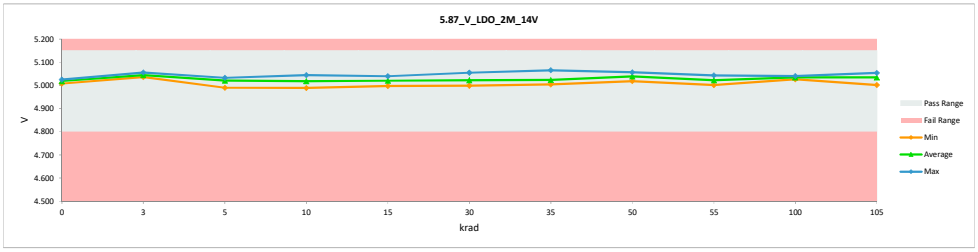
	5.87_V_LDO_2M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.15
Min Limit	4.65	4.8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	5.023	5.024	0.001
0	69	5.025	5.025	0.000
0	70	5.007	5.008	0.001
3	1	5.034	5.036	0.002
3	2	5.051	5.052	0.001
3	3	5.036	5.038	0.002
3	4	5.040	5.043	0.003
3	5	5.055	5.056	0.001
5	6	4.988	4.990	0.002
5	7	5.034	5.033	-0.001
5	8	5.032	5.033	0.001
5	9	5.022	5.022	0.000
5	10	5.030	5.031	0.001
10	11	5.024	5.026	0.002
10	12	4.988	4.989	0.001
10	13	5.018	5.019	0.001
10	14	5.042	5.045	0.003
10	15	5.012	5.016	0.004
15	16	4.995	4.998	0.003
15	17	5.038	5.040	0.002
15	19	5.012	5.016	0.004
15	20	5.015	5.017	0.002
15	21	5.028	5.033	0.005
30	22	5.019	5.026	0.007
30	23	4.993	4.999	0.006
30	24	5.040	5.055	0.015
30	25	5.023	5.028	0.005
30	26	4.999	5.004	0.005
35	27	5.017	5.020	0.003
35	28	5.008	5.013	0.005
35	29	5.010	5.017	0.007
35	30	4.996	5.004	0.008
35	31	5.060	5.066	0.006
50	32	5.020	5.026	0.006
50	33	5.047	5.050	0.003
50	34	5.046	5.057	0.011
50	35	5.036	5.042	0.006
50	36	5.011	5.019	0.008
55	37	5.039	5.044	0.005
55	38	4.997	5.001	0.004
55	39	5.001	5.011	0.010
55	40	5.013	5.016	0.003
55	41	5.033	5.040	0.007
100	42	5.022	5.027	0.005
100	43	5.024	5.041	0.017
100	44	5.018	5.035	0.017
100	45	5.026	5.036	0.010
100	46	5.013	5.035	0.022
105	47	5.025	5.038	0.013
105	48	5.036	5.047	0.011
105	49	5.038	5.054	0.016
105	50	5.019	5.033	0.014
105	51	4.988	5.002	0.014
Max		5.060	5.066	0.022
Average		5.022	5.028	0.006
Min		4.988	4.989	-0.001
Std Dev		0.018	0.018	0.005



	5.87_V_LDO_2M_14V	
Test Site		
Tester		
Test Number		
Max Limit	5.15	V
Min Limit	4.8	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800	4.800
Min	5.008	5.036	4.990	4.989	4.998	4.999	5.004	5.019	5.001	5.027	5.002
Average	5.019	5.045	5.022	5.019	5.021	5.022	5.024	5.039	5.022	5.035	5.035
Max	5.025	5.056	5.033	5.045	5.040	5.055	5.066	5.057	5.044	5.041	5.054
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

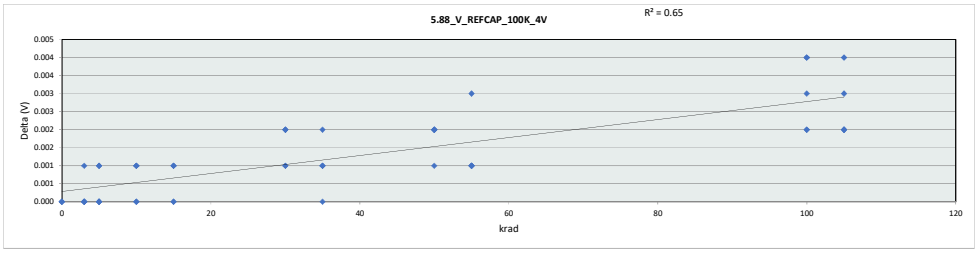


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

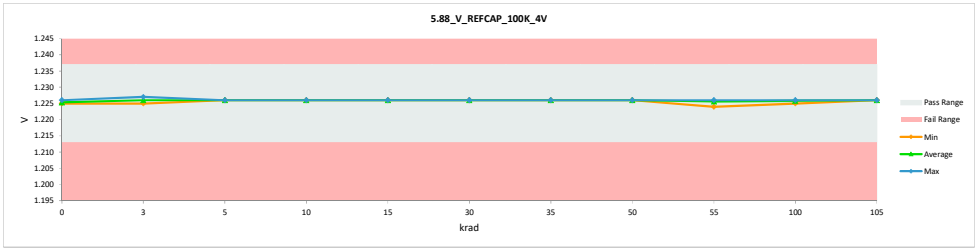
	5.88_V_REFCAP_100K_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.225	0.000
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.225	1.226	0.001
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.226	0.000
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.226	0.001
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.225	0.004
100	45	1.224	1.226	0.002
100	46	1.222	1.226	0.004
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.226	0.002
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.004
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.225	1.226
Average	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.226	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	1.237	1.237	1.237	1.237

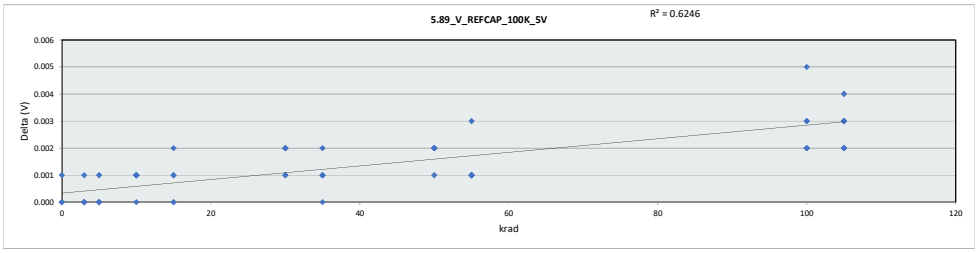


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

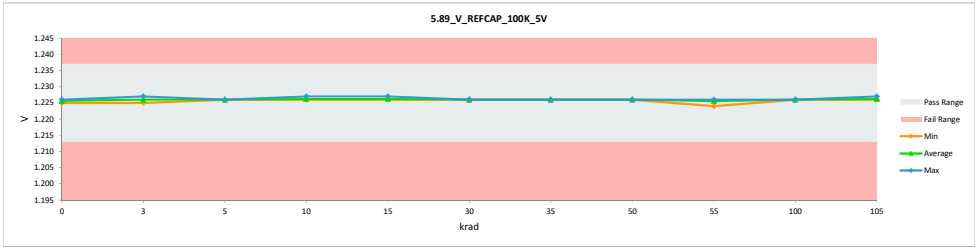
	5.89_V_REFCAP_100K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.226	0.001
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.226	1.226	0.000
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.226	0.003
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

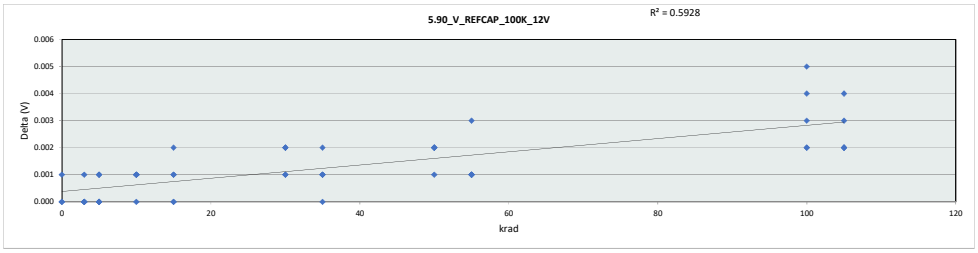


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

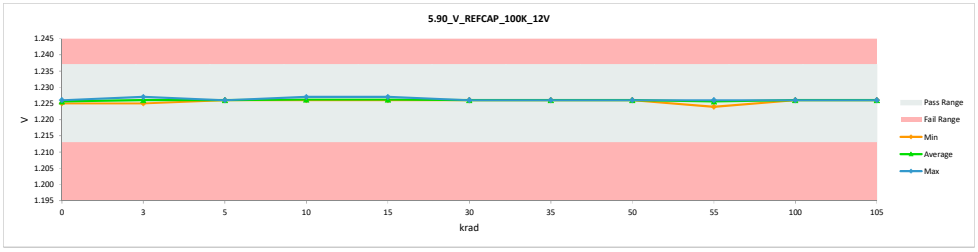
	5.90_V_REFCAP_100K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.226	0.001
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.225	1.226	0.001
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.222	1.226	0.004
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.226	0.002
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



	5.90_V_REFCAP_100K_12V	
Test Site		
Tester		
Test Number		
Max Limit	1.237	V
Min Limit	1.213	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.227	1.227	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	1.237	1.237	1.237	1.237

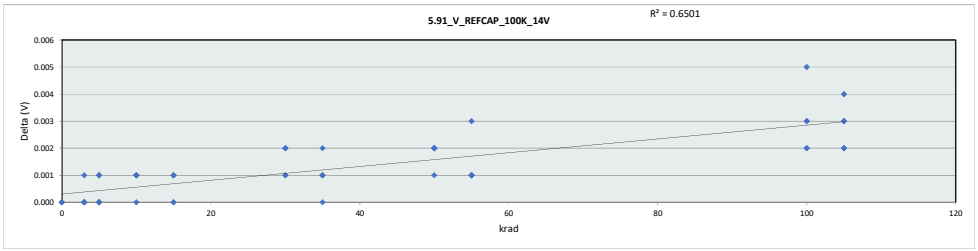


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

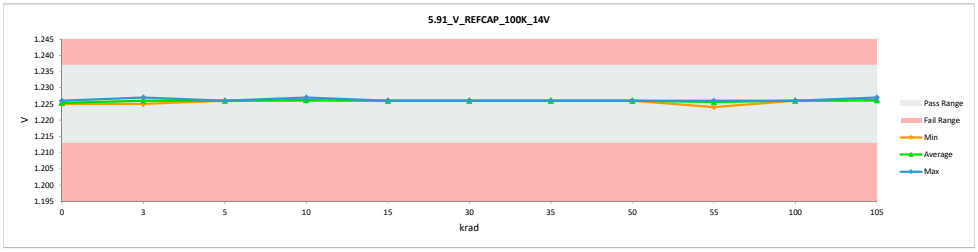
	5.91_V_REFCAP_100K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.225	0.000
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.225	1.226	0.001
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.226	0.001
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.226	0.003
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



	5.91_V_REFCAP_100K_14V	
Test Site		
Tester		
Test Number		
Max Limit	1.237	V
Min Limit	1.213	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.227	1.226	1.226	1.226	1.226	1.226	1.226	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

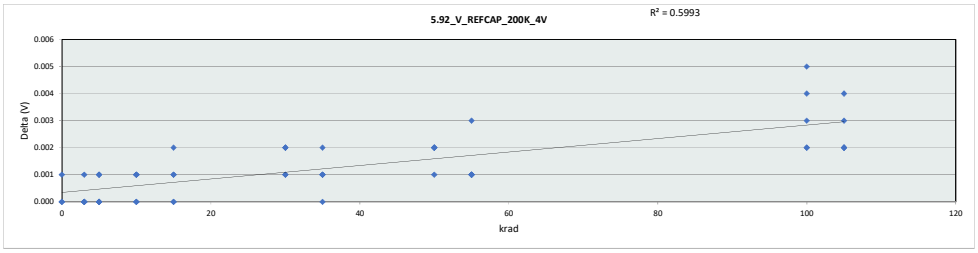


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

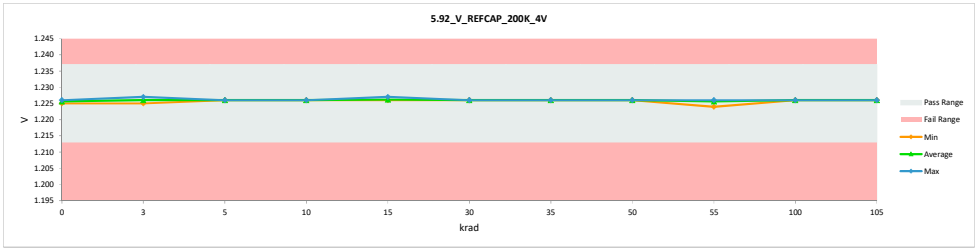
	5.92_V_REFCAP_200K_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.226	0.001
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.225	1.226	0.001
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.226	0.000
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.222	1.226	0.004
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.226	0.002
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.226	1.227	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	1.237	1.237	1.237	1.237

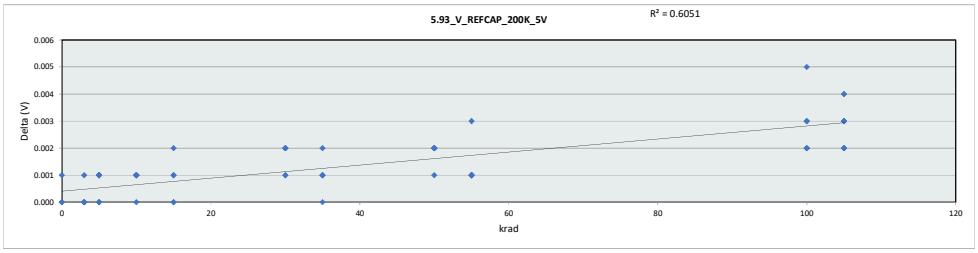


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

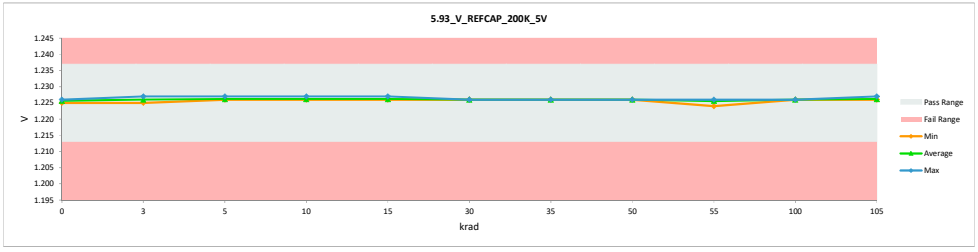
	5.93_V_REFCAP_200K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.226	0.001
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.225	1.226	0.001
5	8	1.226	1.227	0.001
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.226	0.003
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

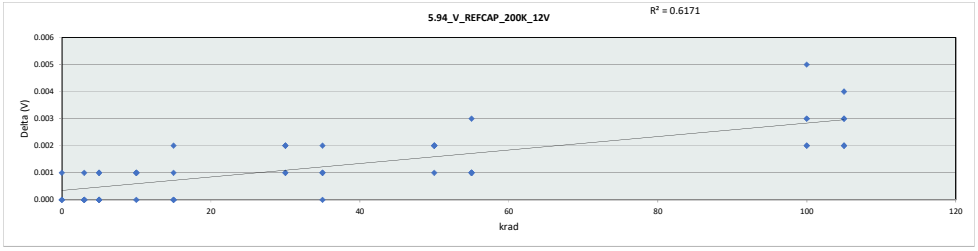


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

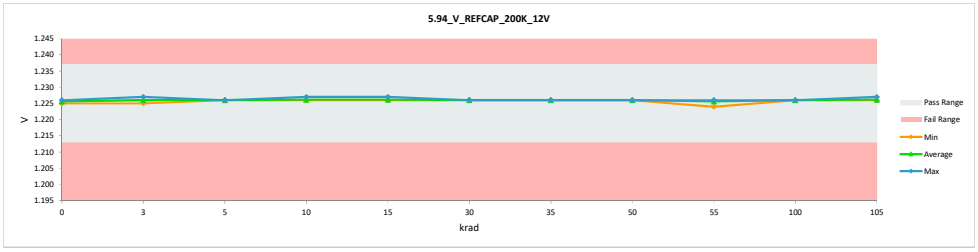
	5.94_V_REFCAP_200K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.226	0.001
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.225	1.226	0.001
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.226	0.003
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

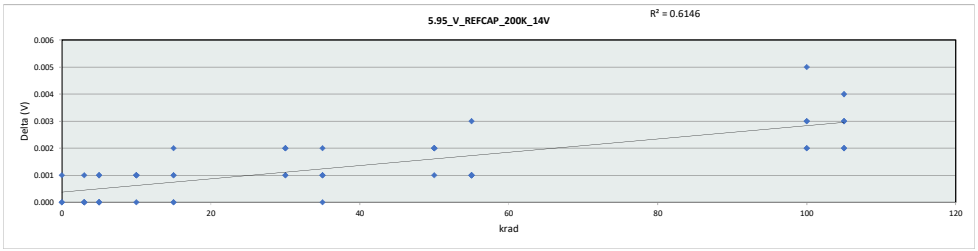


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

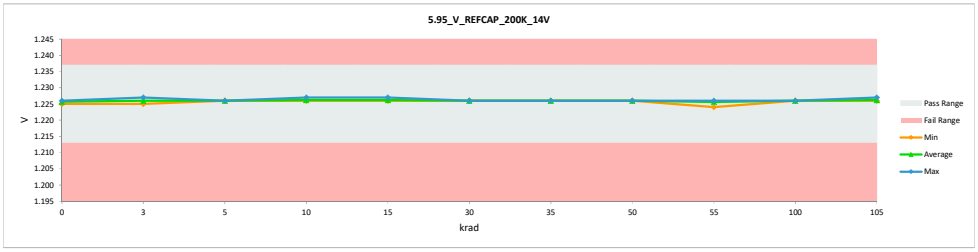
	5.95_V_REFCAP_200K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.225	1.226	0.001
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.226	1.227	0.001
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.225	1.226	0.001
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.226	0.003
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.226	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

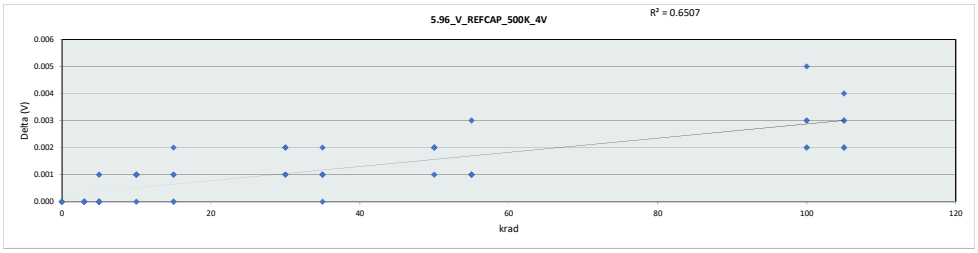


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

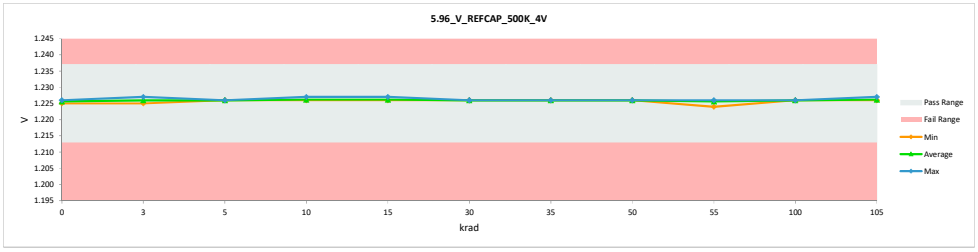
	5.96_V_REFCAP_500K_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.225	1.225	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.226	1.226	0.000
5	8	1.226	1.226	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.225	1.226	0.001
30	22	1.224	1.226	0.002
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.224	1.226	0.002
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.226	0.003
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.225	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

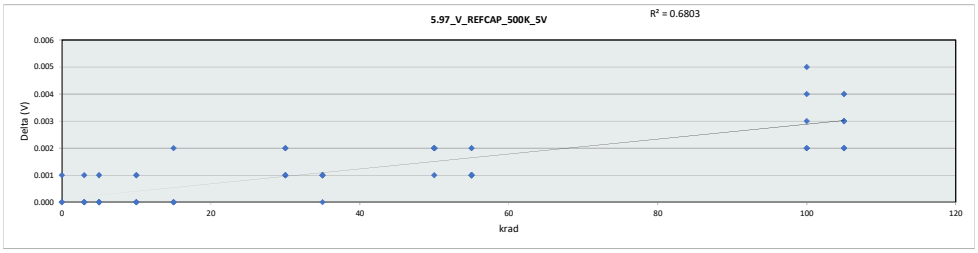


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

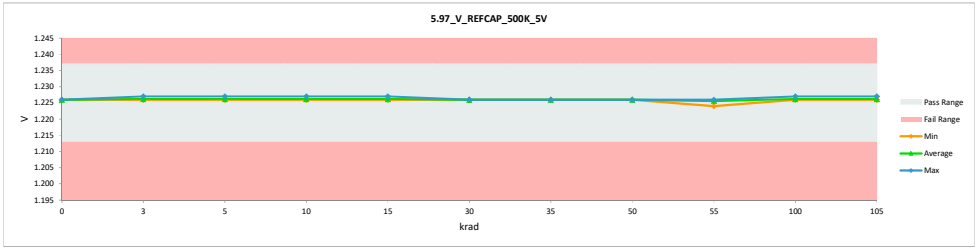
	5.97_V_REFCAP_500K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.225	1.226	0.001
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.226	1.226	0.000
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

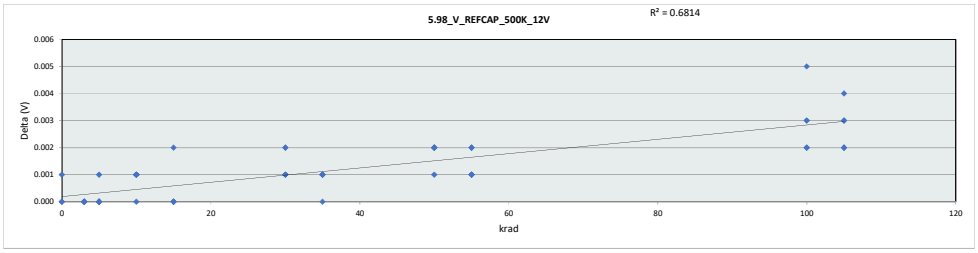


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

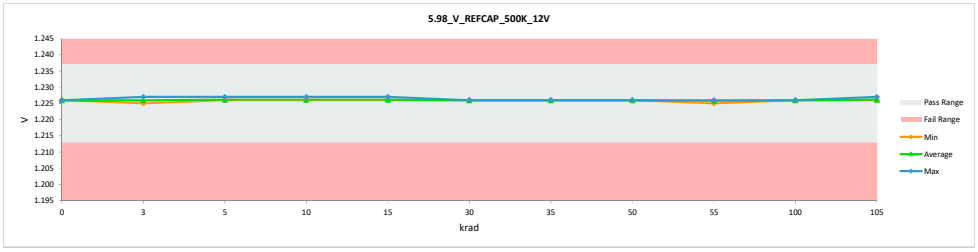
	5.98_V_REFCAP_500K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.225	1.226	0.001
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.225	1.226	0.001
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.226	1.226	0.000
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.225	1.226	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.226	0.003
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.225	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

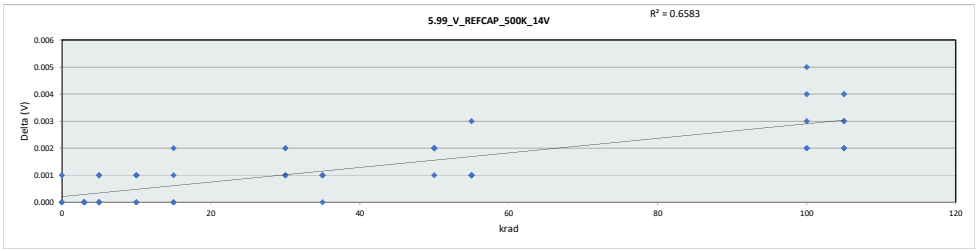


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

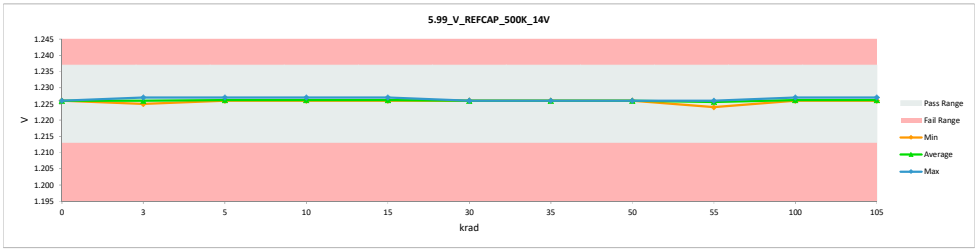
	5.99_V_REFCAP_500K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.225	1.226	0.001
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.225	0.000
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.226	1.226	0.000
5	8	1.226	1.227	0.001
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.223	1.226	0.003
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.226	1.226	1.226	1.226	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

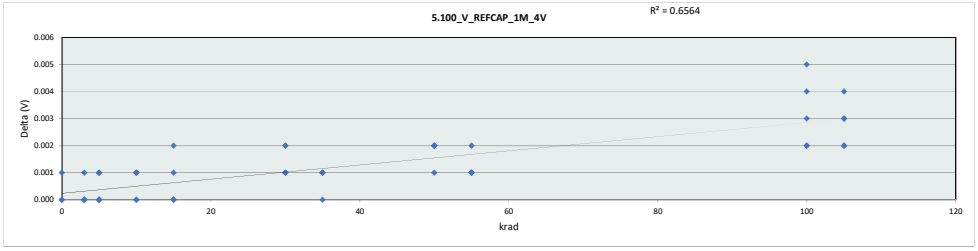


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

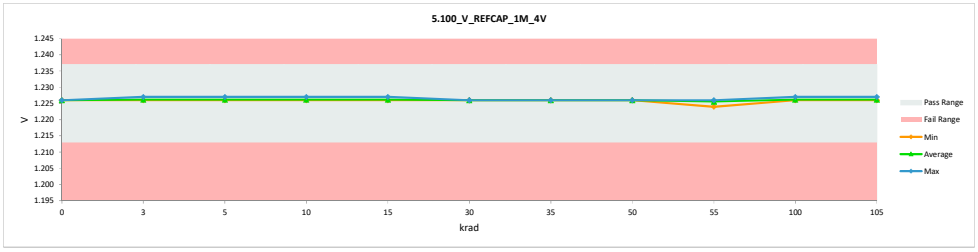
	5.100_V_REFCAP_1M_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.225	1.226	0.001
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.226	0.000
5	6	1.225	1.226	0.001
5	7	1.226	1.226	0.000
5	8	1.226	1.227	0.001
5	9	1.226	1.226	0.000
5	10	1.226	1.226	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.225	1.226	0.001
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.225	1.226	0.001
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

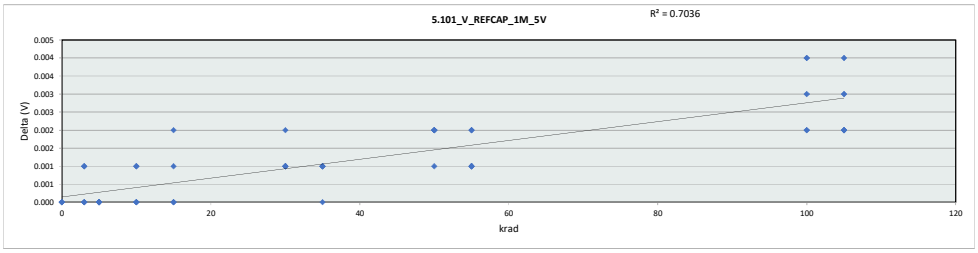


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

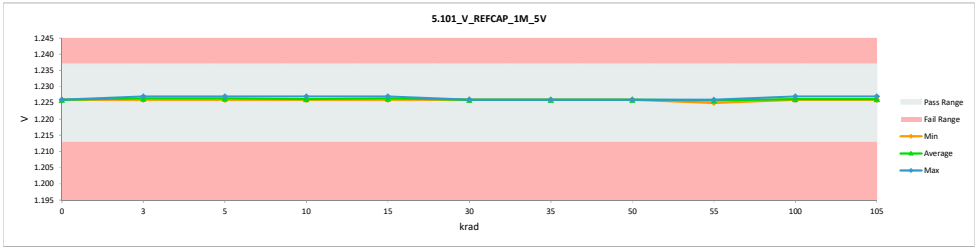
	5.101_V_REFCAP_1M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.226	0.000
15	19	1.226	1.226	0.000
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.225	1.226	0.001
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.225	1.226	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.224	1.226	0.002
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

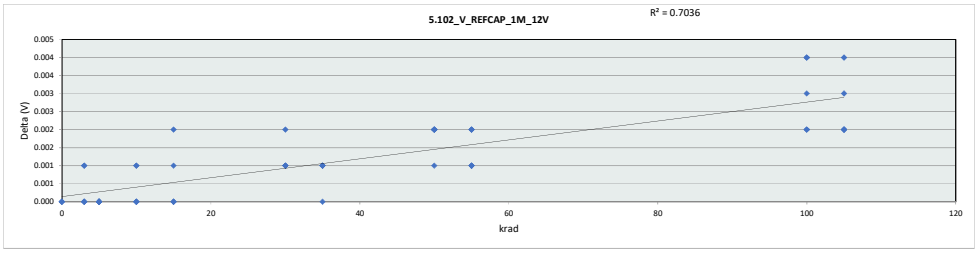


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

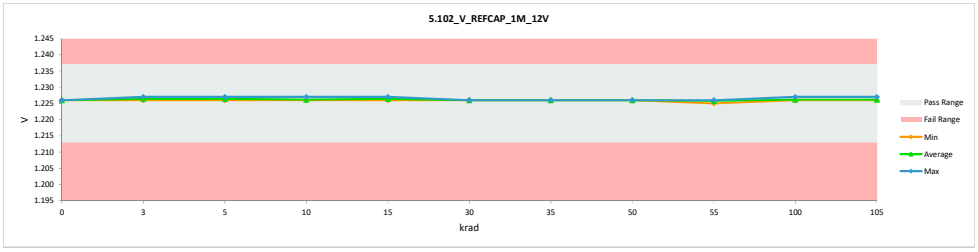
	5.102_V_REFCAP_1M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.226	0.000
15	19	1.226	1.226	0.000
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.225	1.226	0.001
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.225	1.226	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.224	1.226	0.002
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

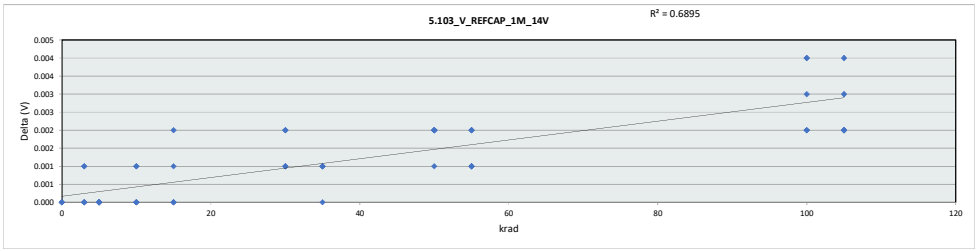


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

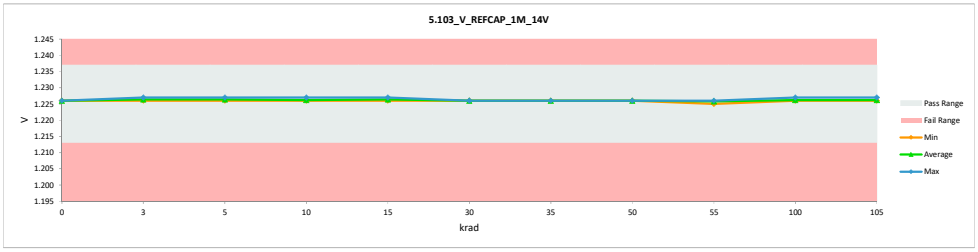
	5.103_V_REFCAP_1M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.226	0.000
15	19	1.226	1.226	0.000
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.225	1.226	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.224	1.226	0.002
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

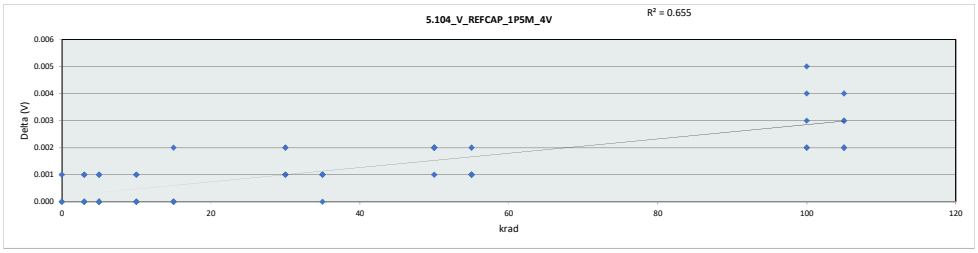


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

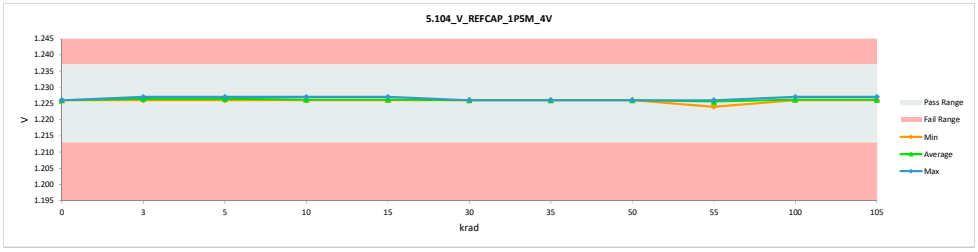
	5.104_V_REFCAP_1P5M_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.225	1.226	0.001
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.225	1.226	0.001
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.226	1.227	0.001
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.226	0.000
15	17	1.226	1.226	0.000
15	19	1.226	1.226	0.000
15	20	1.225	1.227	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.226	0.001
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.225	1.226	0.001
55	39	1.223	1.224	0.001
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.221	1.226	0.005
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.223	1.226	0.003
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.227	0.005
Average		1.225	1.226	0.001
Min		1.221	1.224	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.224	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.227	1.226	1.226	1.226	1.226	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

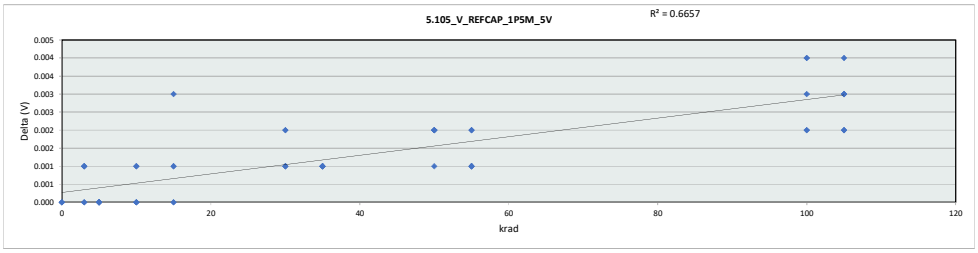


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

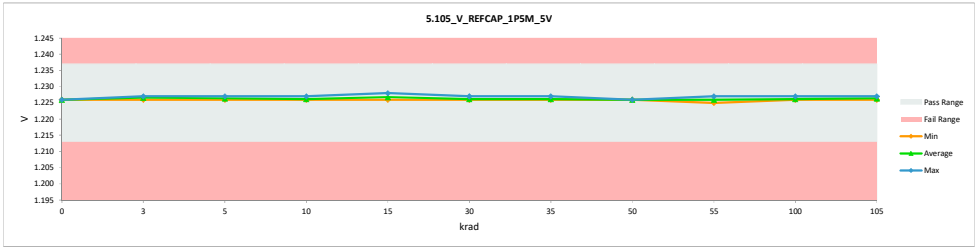
	5.105_V_REFCAP_1P5M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.227	0.001
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.227	0.001
15	19	1.226	1.226	0.000
15	20	1.225	1.228	0.003
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.225	1.226	0.001
30	25	1.225	1.227	0.002
30	26	1.224	1.226	0.002
35	27	1.226	1.227	0.001
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.226	1.227	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.227	0.003
105	48	1.224	1.226	0.002
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.228	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	0.000
Std Dev		0.001	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	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.227	1.226	1.226	1.227	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.228	1.227	1.227	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	1.237	1.237	1.237

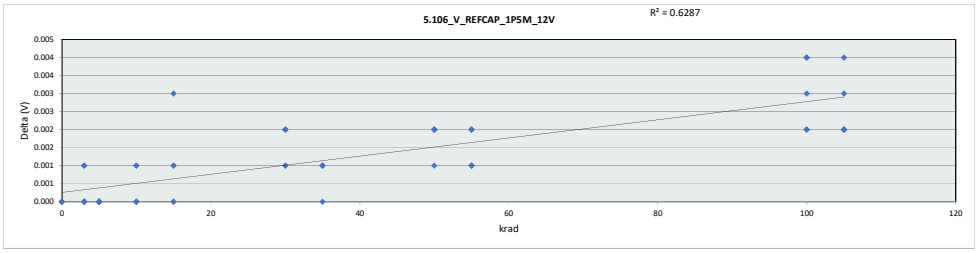


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

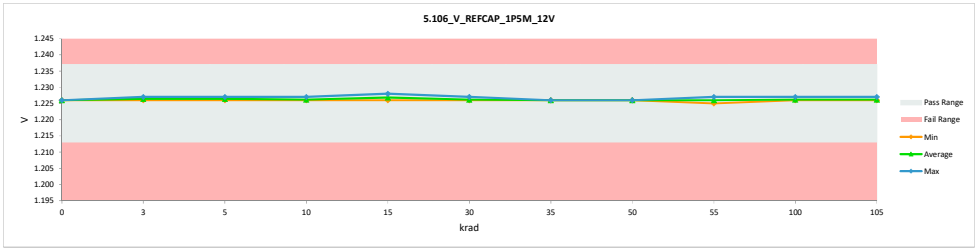
	5.106_V_REFCAP_1P5M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.227	0.001
15	19	1.226	1.226	0.000
15	20	1.225	1.228	0.003
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.224	1.226	0.002
30	25	1.225	1.227	0.002
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.226	1.227	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.224	1.226	0.002
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
	Max	1.227	1.228	0.004
	Average	1.225	1.226	0.001
	Min	1.222	1.225	0.000
	Std Dev	0.001	0.001	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.227	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.228	1.227	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	1.237	1.237	1.237

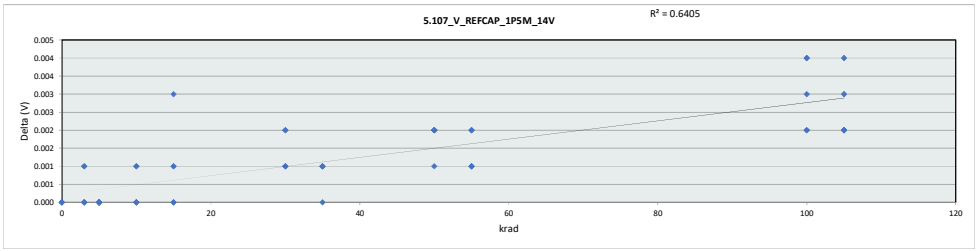


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

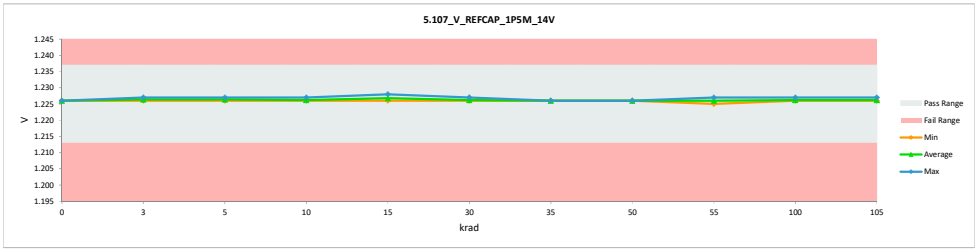
	5.107_V_REFCAP_1P5M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.227	0.001
15	19	1.226	1.226	0.000
15	20	1.225	1.228	0.003
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.225	1.226	0.001
30	25	1.225	1.227	0.002
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.226	1.227	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.224	1.226	0.002
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.228	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	0.000
Std Dev		0.001	0.001	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.227	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.228	1.227	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	1.237	1.237	1.237

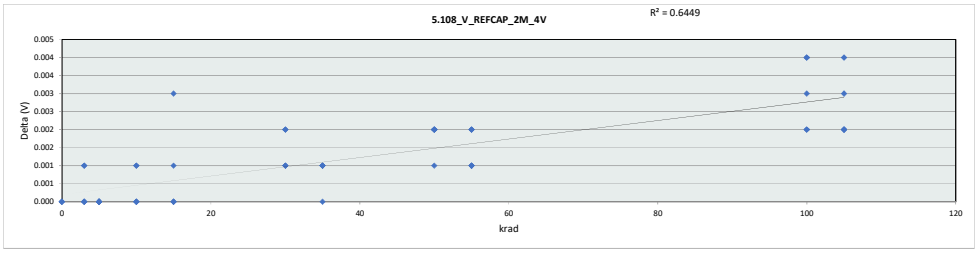


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

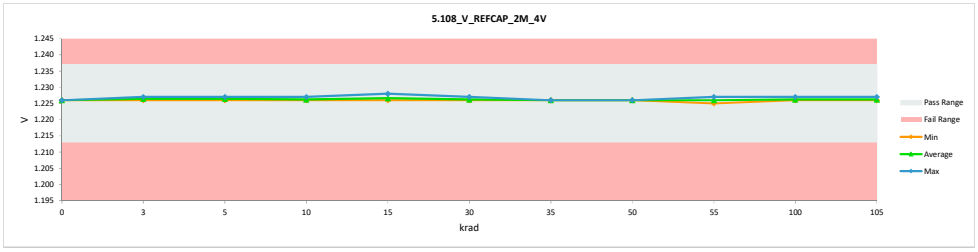
	5.108_V_REFCAP_2M_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.226	1.226	0.000
3	2	1.226	1.226	0.000
3	3	1.227	1.227	0.000
3	4	1.225	1.226	0.001
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.226	0.000
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.226	0.000
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.226	0.000
15	19	1.226	1.226	0.000
15	20	1.225	1.228	0.003
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.225	1.226	0.001
30	24	1.225	1.226	0.001
30	25	1.225	1.227	0.002
30	26	1.224	1.226	0.002
35	27	1.226	1.226	0.000
35	28	1.225	1.226	0.001
35	29	1.225	1.226	0.001
35	30	1.225	1.226	0.001
35	31	1.225	1.226	0.001
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.226	0.002
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.226	1.227	0.001
55	39	1.223	1.225	0.002
55	40	1.225	1.226	0.001
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.226	0.002
100	46	1.223	1.227	0.004
105	47	1.224	1.226	0.002
105	48	1.224	1.226	0.002
105	49	1.222	1.226	0.004
105	50	1.224	1.227	0.003
105	51	1.224	1.226	0.002
Max		1.227	1.228	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	0.000
Std Dev		0.001	0.000	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.226	1.226	1.226	1.227	1.226	1.226	1.226	1.226	1.226	1.226
Max	1.226	1.227	1.227	1.227	1.228	1.227	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	1.237	1.237	1.237

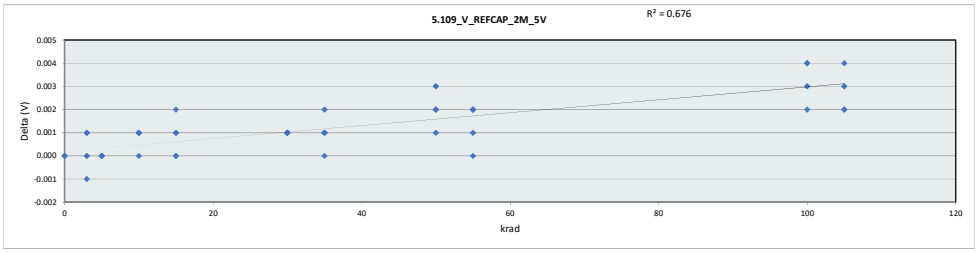


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

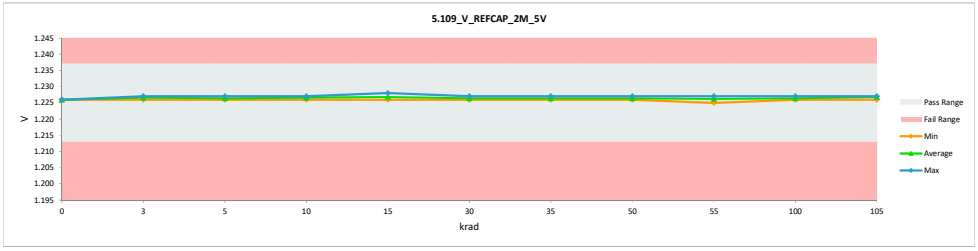
	5.109_V_REFCAP_2M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.227	1.226	-0.001
3	2	1.226	1.227	0.001
3	3	1.227	1.227	0.000
3	4	1.226	1.226	0.000
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.227	0.001
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.227	0.001
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.226	1.227	0.001
15	19	1.226	1.226	0.000
15	20	1.226	1.228	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.226	1.227	0.001
30	24	1.225	1.226	0.001
30	25	1.226	1.227	0.001
30	26	1.225	1.226	0.001
35	27	1.226	1.227	0.001
35	28	1.225	1.226	0.001
35	29	1.226	1.226	0.000
35	30	1.225	1.226	0.001
35	31	1.225	1.227	0.002
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.227	0.003
50	35	1.224	1.226	0.002
50	36	1.224	1.227	0.003
55	37	1.224	1.226	0.002
55	38	1.226	1.227	0.001
55	39	1.223	1.225	0.002
55	40	1.226	1.226	0.000
55	41	1.225	1.227	0.002
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.227	0.003
100	46	1.223	1.227	0.004
105	47	1.225	1.227	0.002
105	48	1.224	1.227	0.003
105	49	1.222	1.226	0.004
105	50	1.225	1.227	0.002
105	51	1.224	1.227	0.003
Max		1.227	1.228	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	-0.001
Std Dev		0.001	0.001	0.001



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
Max	1.226	1.227	1.227	1.227	1.228	1.227	1.227	1.227	1.227	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

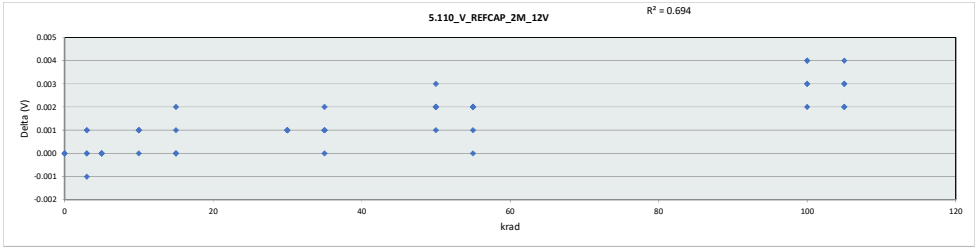


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

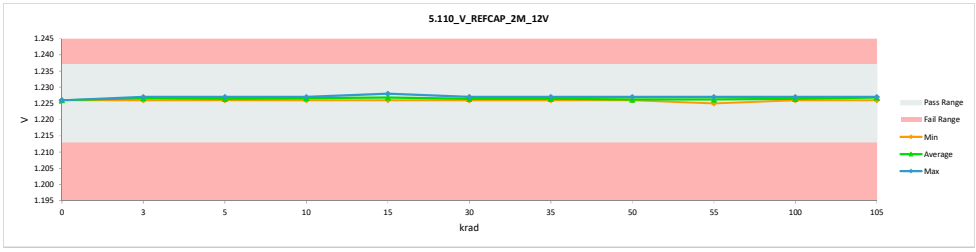
	5.110_V_REFCAP_2M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.227	1.226	-0.001
3	2	1.226	1.227	0.001
3	3	1.227	1.227	0.000
3	4	1.226	1.226	0.000
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.227	0.001
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.227	0.001
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.227	1.227	0.000
15	19	1.226	1.226	0.000
15	20	1.226	1.228	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.226	1.227	0.001
30	24	1.225	1.226	0.001
30	25	1.226	1.227	0.001
30	26	1.225	1.226	0.001
35	27	1.226	1.227	0.001
35	28	1.225	1.226	0.001
35	29	1.226	1.226	0.000
35	30	1.225	1.226	0.001
35	31	1.225	1.227	0.002
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.227	0.003
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.226	1.227	0.001
55	39	1.223	1.225	0.002
55	40	1.226	1.226	0.000
55	41	1.225	1.227	0.002
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.227	0.003
100	46	1.223	1.227	0.004
105	47	1.225	1.227	0.002
105	48	1.224	1.227	0.003
105	49	1.222	1.226	0.004
105	50	1.225	1.227	0.002
105	51	1.224	1.227	0.003
Max		1.227	1.228	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	-0.001
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	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
Max	1.226	1.227	1.227	1.227	1.228	1.227	1.227	1.227	1.227	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

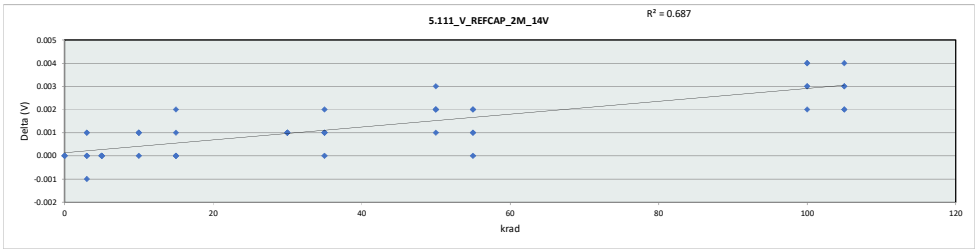


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

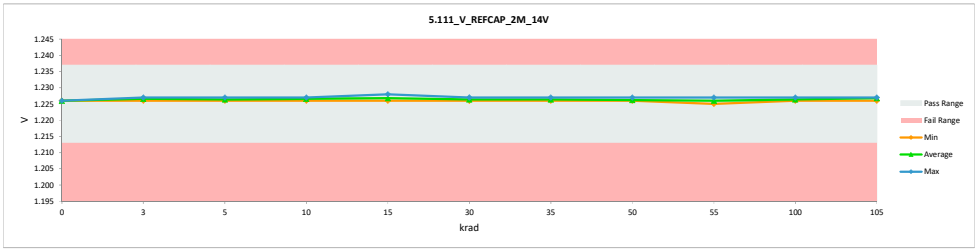
	5.111_V_REFCAP_2M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.226	1.226	0.000
0	69	1.226	1.226	0.000
0	70	1.226	1.226	0.000
3	1	1.227	1.226	-0.001
3	2	1.226	1.227	0.001
3	3	1.227	1.227	0.000
3	4	1.226	1.226	0.000
3	5	1.226	1.227	0.001
5	6	1.226	1.226	0.000
5	7	1.226	1.226	0.000
5	8	1.227	1.227	0.000
5	9	1.226	1.226	0.000
5	10	1.227	1.227	0.000
10	11	1.226	1.227	0.001
10	12	1.225	1.226	0.001
10	13	1.226	1.226	0.000
10	14	1.226	1.227	0.001
10	15	1.226	1.227	0.001
15	16	1.226	1.227	0.001
15	17	1.227	1.227	0.000
15	19	1.226	1.226	0.000
15	20	1.226	1.228	0.002
15	21	1.226	1.226	0.000
30	22	1.225	1.226	0.001
30	23	1.226	1.227	0.001
30	24	1.225	1.226	0.001
30	25	1.226	1.227	0.001
30	26	1.225	1.226	0.001
35	27	1.226	1.227	0.001
35	28	1.225	1.226	0.001
35	29	1.226	1.226	0.000
35	30	1.225	1.226	0.001
35	31	1.225	1.227	0.002
50	32	1.224	1.226	0.002
50	33	1.225	1.226	0.001
50	34	1.224	1.227	0.003
50	35	1.224	1.226	0.002
50	36	1.224	1.226	0.002
55	37	1.224	1.226	0.002
55	38	1.226	1.227	0.001
55	39	1.223	1.225	0.002
55	40	1.226	1.226	0.000
55	41	1.225	1.226	0.001
100	42	1.224	1.226	0.002
100	43	1.223	1.226	0.003
100	44	1.222	1.226	0.004
100	45	1.224	1.227	0.003
100	46	1.223	1.227	0.004
105	47	1.225	1.227	0.002
105	48	1.224	1.227	0.003
105	49	1.222	1.226	0.004
105	50	1.225	1.227	0.002
105	51	1.224	1.227	0.003
Max		1.227	1.228	0.004
Average		1.225	1.226	0.001
Min		1.222	1.225	-0.001
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	0	3	5	10	15	30	35	50	55	100	105
LL	1.213	1.213	1.213	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	1.226	1.226	1.225	1.226	1.226
Average	1.226	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.226	1.226	1.227
Max	1.226	1.227	1.227	1.227	1.228	1.227	1.227	1.227	1.227	1.227	1.227
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

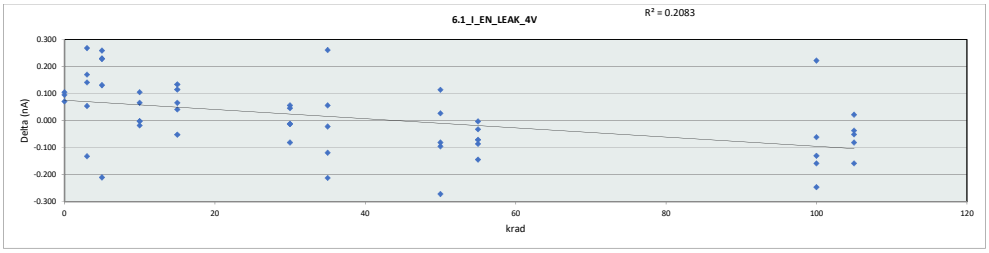


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

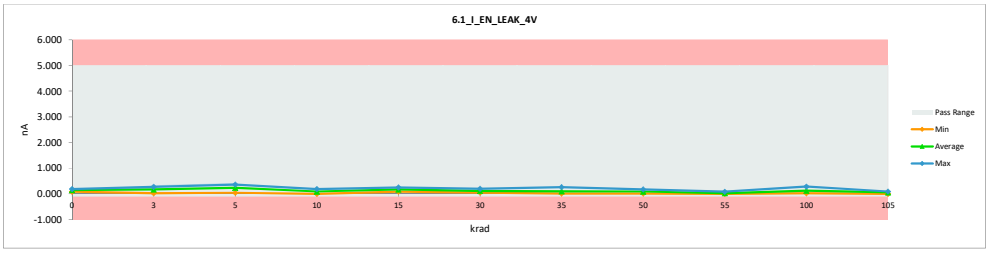
	6.1_I_EN_LEAK_4V	
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	50	5
Min Limit	-0.1	-0.1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.068	0.163	0.095
0	69	0.088	0.193	0.105
0	70	0.010	0.081	0.071
3	1	0.156	0.024	-0.132
3	2	0.010	0.278	0.268
3	3	0.059	0.200	0.141
3	4	0.098	0.268	0.170
3	5	0.029	0.083	0.054
5	6	0.000	0.259	0.259
5	7	0.254	0.044	-0.210
5	8	0.098	0.229	0.131
5	9	0.137	0.366	0.229
5	10	0.049	0.278	0.229
10	11	0.020	0.002	-0.018
10	12	0.088	0.193	0.105
10	13	0.107	0.105	-0.002
10	14	0.029	0.027	-0.002
10	15	0.068	0.134	0.066
15	16	0.215	0.163	-0.052
15	17	0.049	0.090	0.041
15	19	0.185	0.251	0.066
15	20	0.020	0.154	0.134
15	21	0.078	0.193	0.115
30	22	0.078	0.134	0.056
30	23	0.088	0.076	-0.012
30	24	0.156	0.202	0.046
30	25	0.127	0.046	-0.081
30	26	0.117	0.105	-0.012
35	27	0.156	0.134	-0.022
35	28	0.000	0.261	0.261
35	29	0.156	0.037	-0.119
35	30	0.224	0.012	-0.212
35	31	0.010	0.066	0.056
50	32	0.185	0.090	-0.095
50	33	0.059	0.173	0.114
50	34	0.127	0.046	-0.081
50	35	0.283	0.012	-0.271
50	36	0.117	0.144	0.027
55	37	0.176	0.032	-0.144
55	38	0.010	0.007	-0.003
55	39	0.117	0.085	-0.032
55	40	0.078	0.007	-0.071
55	41	0.088	0.002	-0.086
100	42	0.215	0.085	-0.130
100	43	0.234	0.076	-0.158
100	44	0.273	0.027	-0.246
100	45	0.224	0.163	-0.061
100	46	0.059	0.281	0.222
105	47	0.039	0.002	-0.037
105	48	0.146	0.095	-0.051
105	49	0.166	0.085	-0.081
105	50	0.059	0.081	0.022
105	51	0.195	0.037	-0.158
Max		0.283	0.366	0.268
Average		0.111	0.120	0.010
Min		0.000	0.002	-0.271
Std Dev		0.076	0.092	0.133



	6.1_I_EN_LEAK_4V	
Test Site		
Tester		
Test Number		
Max Limit	5	nA
Min Limit	-0.1	nA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
Min	0.081	0.024	0.044	0.002	0.090	0.046	0.012	0.012	0.002	0.027	0.002
Average	0.146	0.171	0.235	0.092	0.170	0.113	0.102	0.093	0.027	0.126	0.060
Max	0.193	0.278	0.366	0.193	0.251	0.202	0.261	0.173	0.085	0.281	0.095
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

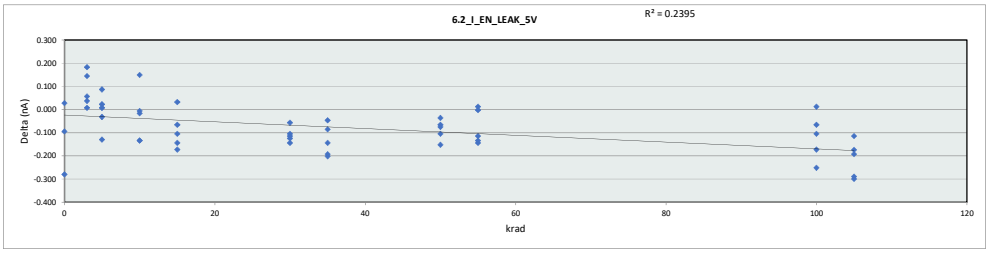


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

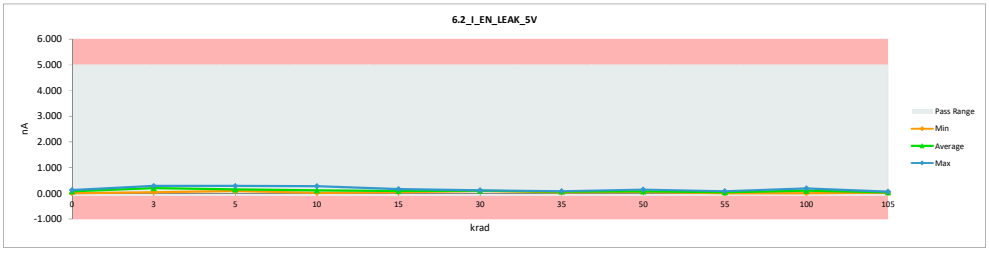
	6.2_I_EN_LEAK_5V	
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	50	5
Min Limit	-0.1	-0.1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.217	0.122	-0.095
0	69	0.056	0.083	0.027
0	70	0.285	0.005	-0.280
3	1	0.207	0.263	0.056
3	2	0.012	0.156	0.144
3	3	0.032	0.039	0.007
3	4	0.081	0.263	0.182
3	5	0.246	0.283	0.037
5	6	0.276	0.146	-0.130
5	7	0.041	0.127	0.086
5	8	0.276	0.283	0.007
5	9	0.120	0.088	-0.032
5	10	0.095	0.117	0.022
10	11	0.041	0.034	-0.007
10	12	0.168	0.034	-0.134
10	13	0.198	0.181	-0.017
10	14	0.129	0.278	0.149
10	15	0.149	0.015	-0.134
15	16	0.217	0.073	-0.144
15	17	0.129	0.161	0.032
15	19	0.139	0.034	-0.105
15	20	0.129	0.063	-0.066
15	21	0.266	0.093	-0.173
30	22	0.188	0.083	-0.105
30	23	0.198	0.083	-0.115
30	24	0.159	0.102	-0.057
30	25	0.227	0.102	-0.125
30	26	0.256	0.112	-0.144
35	27	0.276	0.083	-0.193
35	28	0.110	0.063	-0.047
35	29	0.120	0.034	-0.086
35	30	0.246	0.044	-0.202
35	31	0.198	0.054	-0.144
50	32	0.207	0.054	-0.153
50	33	0.159	0.054	-0.105
50	34	0.207	0.141	-0.066
50	35	0.120	0.044	-0.076
50	36	0.110	0.073	-0.037
55	37	0.120	0.005	-0.115
55	38	0.188	0.054	-0.134
55	39	0.027	0.024	-0.003
55	40	0.071	0.083	0.012
55	41	0.188	0.044	-0.144
100	42	0.393	0.141	-0.252
100	43	0.071	0.005	-0.066
100	44	0.110	0.005	-0.105
100	45	0.344	0.171	-0.173
100	46	0.178	0.190	0.012
105	47	0.324	0.024	-0.300
105	48	0.334	0.044	-0.290
105	49	0.198	0.024	-0.174
105	50	0.159	0.044	-0.115
105	51	0.256	0.063	-0.193
Max		0.393	0.283	0.182
Average		0.175	0.094	-0.080
Min		0.012	0.005	-0.300
Std Dev		0.088	0.076	0.106



	6.2_I_EN_LEAK_5V	
Test Site		
Tester		
Test Number		
Max Limit	5	nA
Min Limit	-0.1	nA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
Min	0.005	0.039	0.088	0.015	0.034	0.083	0.034	0.044	0.005	0.005	0.024
Average	0.070	0.201	0.152	0.108	0.085	0.096	0.056	0.073	0.042	0.102	0.040
Max	0.122	0.283	0.283	0.278	0.161	0.112	0.083	0.141	0.083	0.190	0.063
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

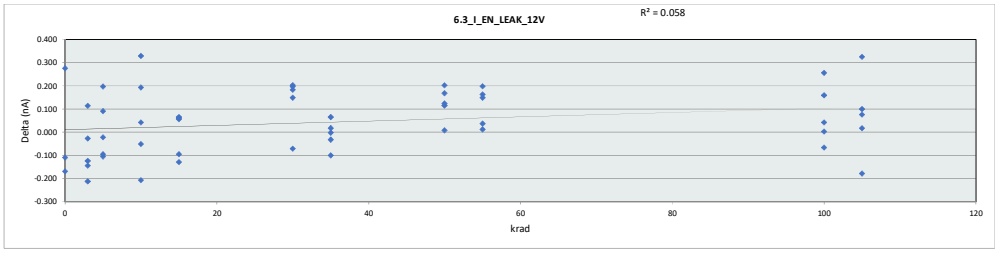


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

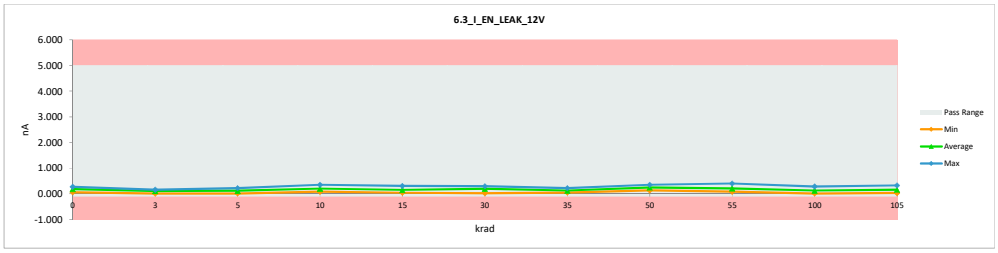
	6.3_I_EN_LEAK_12V	
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	50	5
Min Limit	-0.1	-0.1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.232	0.063	-0.169
0	69	0.002	0.278	0.276
0	70	0.329	0.220	-0.109
3	1	0.032	0.146	0.114
3	2	0.290	0.146	-0.144
3	3	0.202	0.078	-0.124
3	4	0.222	0.010	-0.212
3	5	0.193	0.166	-0.027
5	6	0.115	0.020	-0.095
5	7	0.046	0.137	0.091
5	8	0.222	0.117	-0.105
5	9	0.027	0.224	0.197
5	10	0.110	0.088	-0.022
10	11	0.056	0.249	0.193
10	12	0.222	0.171	-0.051
10	13	0.139	0.181	0.042
10	14	0.027	0.356	0.329
10	15	0.290	0.083	-0.207
15	16	0.173	0.229	0.056
15	17	0.168	0.073	-0.095
15	19	0.173	0.044	-0.129
15	20	0.061	0.122	0.061
15	21	0.242	0.307	0.065
30	22	0.095	0.024	-0.071
30	23	0.115	0.298	0.183
30	24	0.032	0.229	0.197
30	25	0.061	0.210	0.149
30	26	0.007	0.210	0.203
35	27	0.095	0.063	-0.032
35	28	0.037	0.102	0.065
35	29	0.222	0.220	-0.002
35	30	0.154	0.054	-0.100
35	31	0.202	0.220	0.018
50	32	0.154	0.356	0.202
50	33	0.193	0.317	0.124
50	34	0.022	0.190	0.168
50	35	0.124	0.132	0.008
50	36	0.134	0.249	0.115
55	37	0.041	0.190	0.149
55	38	0.100	0.298	0.198
55	39	0.056	0.093	0.037
55	40	0.071	0.083	0.012
55	41	0.242	0.405	0.163
100	42	0.081	0.015	-0.066
100	43	0.051	0.054	0.003
100	44	0.032	0.288	0.256
100	45	0.041	0.083	0.042
100	46	0.061	0.220	0.159
105	47	0.002	0.102	0.100
105	48	0.002	0.327	0.325
105	49	0.124	0.200	0.076
105	50	0.134	0.151	0.017
105	51	0.212	0.034	-0.178
Max		0.329	0.405	0.329
Average		0.122	0.168	0.046
Min		0.002	0.010	-0.212
Std Dev		0.086	0.101	0.138



	6.3_I_EN_LEAK_12V	
Test Site		
Tester		
Test Number		
Max Limit	5	nA
Min Limit	-0.1	nA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
Min	0.063	0.010	0.020	0.083	0.044	0.024	0.054	0.132	0.083	0.015	0.034
Average	0.187	0.109	0.117	0.208	0.155	0.194	0.132	0.249	0.214	0.132	0.163
Max	0.278	0.166	0.224	0.356	0.307	0.298	0.220	0.356	0.405	0.288	0.327
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

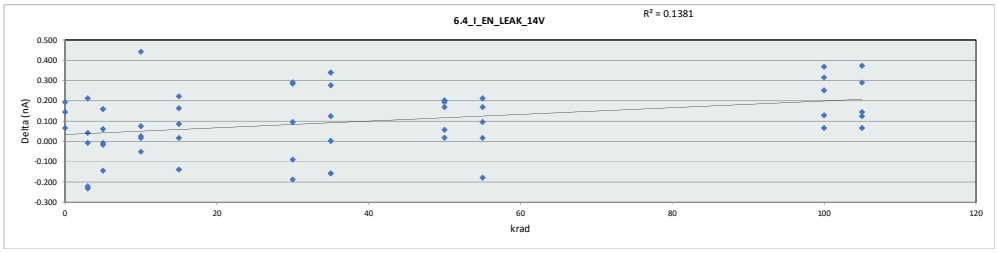


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

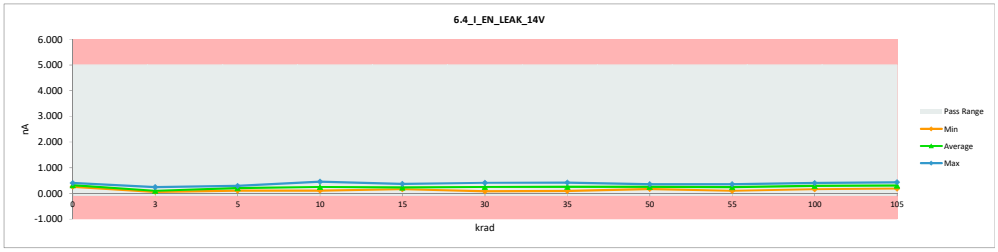
	6.4_I_EN_LEAK_14V	
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	50	5
Min Limit	-0.1	-0.1

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.154	0.298	0.144
0	69	0.212	0.405	0.193
0	70	0.193	0.259	0.066
3	1	0.076	0.068	-0.008
3	2	0.095	0.137	0.042
3	3	0.032	0.244	0.212
3	4	0.232	0.000	-0.232
3	5	0.281	0.059	-0.222
5	6	0.173	0.234	0.061
5	7	0.134	0.293	0.159
5	8	0.115	0.107	-0.008
5	9	0.222	0.205	-0.017
5	10	0.320	0.176	-0.144
10	11	0.163	0.112	-0.051
10	12	0.012	0.454	0.442
10	13	0.251	0.268	0.017
10	14	0.242	0.268	0.026
10	15	0.076	0.151	0.075
15	16	0.300	0.161	-0.139
15	17	0.037	0.200	0.163
15	19	0.085	0.171	0.086
15	20	0.232	0.249	0.017
15	21	0.144	0.366	0.222
30	22	0.222	0.132	-0.090
30	23	0.124	0.415	0.291
30	24	0.222	0.317	0.095
30	25	0.022	0.307	0.285
30	26	0.271	0.083	-0.188
35	27	0.251	0.093	-0.158
35	28	0.051	0.327	0.276
35	29	0.085	0.424	0.339
35	30	0.100	0.102	0.002
35	31	0.232	0.356	0.124
50	32	0.202	0.259	0.057
50	33	0.163	0.356	0.193
50	34	0.105	0.307	0.202
50	35	0.002	0.171	0.169
50	36	0.202	0.220	0.018
55	37	0.105	0.317	0.212
55	38	0.222	0.239	0.017
55	39	0.012	0.181	0.169
55	40	0.281	0.102	-0.179
55	41	0.261	0.356	0.095
100	42	0.134	0.200	0.066
100	43	0.124	0.376	0.252
100	44	0.022	0.337	0.315
100	45	0.032	0.161	0.129
100	46	0.037	0.405	0.368
105	47	0.310	0.434	0.124
105	48	0.017	0.307	0.290
105	49	0.134	0.200	0.066
105	50	0.046	0.190	0.144
105	51	0.061	0.434	0.373
Max		0.320	0.454	0.442
Average		0.148	0.245	0.097
Min		0.002	0.000	-0.232
Std Dev		0.092	0.114	0.160



	6.4_I_EN_LEAK_14V	
Test Site		
Tester		
Test Number		
Max Limit	5	nA
Min Limit	-0.1	nA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100	-0.100
Min	0.259	0.059	0.107	0.112	0.161	0.083	0.093	0.171	0.102	0.161	0.190
Average	0.321	0.102	0.203	0.251	0.229	0.251	0.260	0.263	0.239	0.296	0.313
Max	0.405	0.244	0.293	0.454	0.366	0.415	0.424	0.356	0.356	0.405	0.434
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

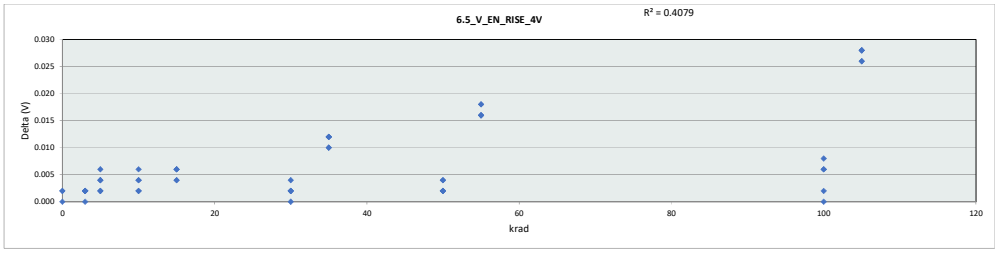


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

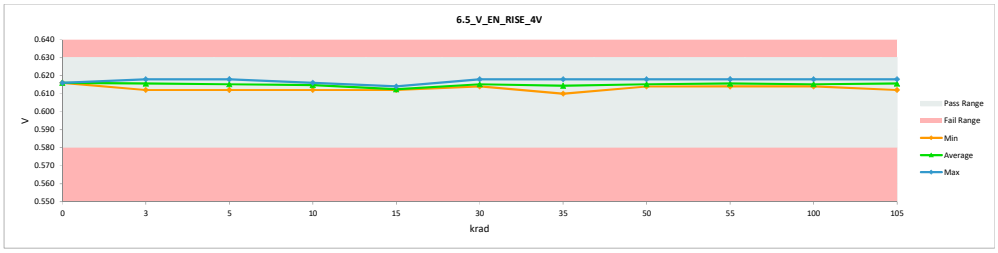
	6.5_V_EN_RISE_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.616	0.616	0.000
0	69	0.614	0.616	0.002
0	70	0.614	0.616	0.002
3	1	0.612	0.612	0.000
3	2	0.612	0.614	0.002
3	3	0.616	0.618	0.002
3	4	0.614	0.616	0.002
3	5	0.616	0.618	0.002
5	6	0.612	0.616	0.004
5	7	0.614	0.616	0.002
5	8	0.610	0.612	0.002
5	9	0.612	0.618	0.006
5	10	0.610	0.614	0.004
10	11	0.610	0.614	0.004
10	12	0.610	0.616	0.006
10	13	0.614	0.616	0.002
10	14	0.610	0.612	0.002
10	15	0.612	0.616	0.004
15	16	0.606	0.612	0.006
15	17	0.608	0.614	0.006
15	19	0.608	0.612	0.004
15	20	0.608	0.612	0.004
15	21	0.606	0.612	0.006
30	22	0.616	0.616	0.000
30	23	0.612	0.614	0.002
30	24	0.612	0.614	0.002
30	25	0.614	0.618	0.004
30	26	0.612	0.614	0.002
35	27	0.604	0.614	0.010
35	28	0.604	0.616	0.012
35	29	0.600	0.610	0.010
35	30	0.602	0.614	0.012
35	31	0.606	0.618	0.012
50	32	0.614	0.616	0.002
50	33	0.610	0.614	0.004
50	34	0.612	0.614	0.002
50	35	0.610	0.614	0.004
50	36	0.616	0.618	0.002
55	37	0.600	0.616	0.016
55	38	0.598	0.614	0.016
55	39	0.596	0.614	0.018
55	40	0.602	0.618	0.016
55	41	0.598	0.616	0.018
100	42	0.608	0.614	0.006
100	43	0.614	0.614	0.000
100	44	0.610	0.616	0.006
100	45	0.612	0.614	0.002
100	46	0.610	0.618	0.008
105	47	0.586	0.612	0.026
105	48	0.588	0.616	0.028
105	49	0.588	0.616	0.028
105	50	0.588	0.616	0.028
105	51	0.592	0.618	0.026
Max		0.616	0.618	0.028
Average		0.608	0.615	0.007
Min		0.586	0.610	0.000
Std Dev		0.008	0.002	0.008



	6.5_V_EN_RISE_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.616	0.612	0.612	0.612	0.612	0.614	0.610	0.614	0.614	0.614	0.612
Average	0.616	0.616	0.615	0.615	0.612	0.615	0.614	0.615	0.616	0.615	0.616
Max	0.616	0.618	0.618	0.616	0.614	0.618	0.618	0.618	0.618	0.618	0.618
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

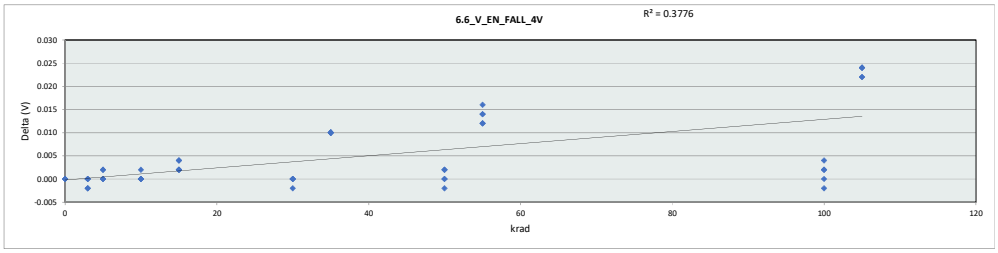


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

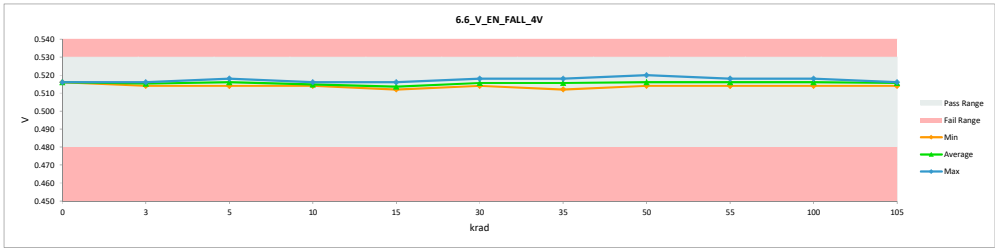
	6.6_V_EN_FALL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.516	0.516	0.000
0	69	0.516	0.516	0.000
0	70	0.516	0.516	0.000
3	1	0.514	0.514	0.000
3	2	0.514	0.514	0.000
3	3	0.518	0.516	-0.002
3	4	0.516	0.516	0.000
3	5	0.518	0.516	-0.002
5	6	0.516	0.516	0.000
5	7	0.516	0.516	0.000
5	8	0.514	0.516	0.002
5	9	0.516	0.518	0.002
5	10	0.514	0.514	0.000
10	11	0.514	0.514	0.000
10	12	0.514	0.514	0.000
10	13	0.516	0.516	0.000
10	14	0.512	0.514	0.002
10	15	0.516	0.516	0.000
15	16	0.512	0.514	0.002
15	17	0.514	0.516	0.002
15	19	0.510	0.512	0.002
15	20	0.510	0.514	0.004
15	21	0.508	0.512	0.004
30	22	0.518	0.516	-0.002
30	23	0.516	0.516	0.000
30	24	0.514	0.514	0.000
30	25	0.518	0.518	0.000
30	26	0.514	0.514	0.000
35	27	0.508	0.518	0.010
35	28	0.506	0.516	0.010
35	29	0.502	0.512	0.010
35	30	0.504	0.514	0.010
35	31	0.508	0.518	0.010
50	32	0.516	0.516	0.000
50	33	0.514	0.514	0.000
50	34	0.514	0.516	0.002
50	35	0.516	0.514	-0.002
50	36	0.518	0.520	0.002
55	37	0.504	0.516	0.012
55	38	0.502	0.516	0.014
55	39	0.500	0.514	0.014
55	40	0.506	0.518	0.012
55	41	0.500	0.516	0.016
100	42	0.512	0.514	0.002
100	43	0.516	0.516	0.000
100	44	0.514	0.516	0.002
100	45	0.518	0.516	-0.002
100	46	0.514	0.518	0.004
105	47	0.492	0.514	0.022
105	48	0.492	0.516	0.024
105	49	0.492	0.516	0.024
105	50	0.492	0.516	0.024
105	51	0.494	0.516	0.022
Max		0.518	0.520	0.024
Average		0.511	0.515	0.005
Min		0.492	0.512	-0.002
Std Dev		0.008	0.002	0.008



	6.6_V_EN_FALL_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.516	0.514	0.514	0.514	0.512	0.514	0.512	0.514	0.514	0.514	0.514
Average	0.516	0.515	0.516	0.515	0.514	0.516	0.516	0.516	0.516	0.516	0.516
Max	0.516	0.516	0.518	0.516	0.516	0.518	0.518	0.520	0.518	0.518	0.516
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

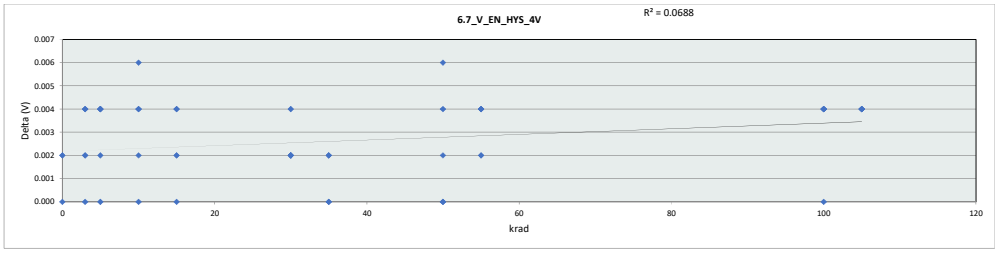


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

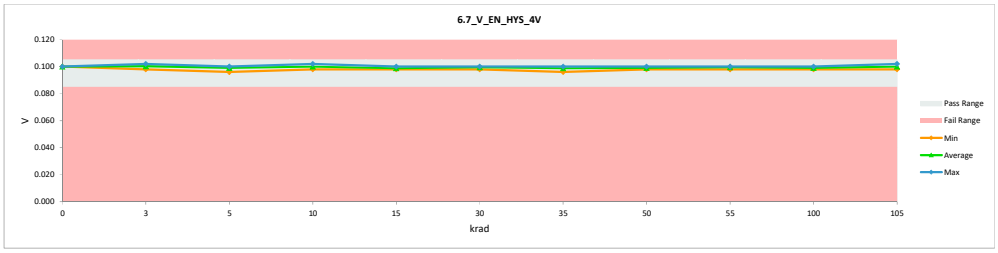
	6.7_V_EN_HYS_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.105	0.105
Min Limit	0.085	0.085

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.100	0.100	0.000
0	69	0.098	0.100	0.002
0	70	0.098	0.100	0.002
3	1	0.098	0.098	0.000
3	2	0.098	0.100	0.002
3	3	0.098	0.102	0.004
3	4	0.098	0.100	0.002
3	5	0.098	0.102	0.004
5	6	0.096	0.100	0.004
5	7	0.098	0.100	0.002
5	8	0.096	0.096	0.000
5	9	0.096	0.100	0.004
5	10	0.096	0.100	0.004
10	11	0.096	0.100	0.004
10	12	0.096	0.102	0.006
10	13	0.098	0.100	0.002
10	14	0.098	0.098	0.000
10	15	0.096	0.100	0.004
15	16	0.094	0.098	0.004
15	17	0.094	0.098	0.004
15	19	0.098	0.100	0.002
15	20	0.098	0.098	0.000
15	21	0.098	0.100	0.002
30	22	0.098	0.100	0.002
30	23	0.096	0.098	0.002
30	24	0.098	0.100	0.002
30	25	0.096	0.100	0.004
30	26	0.098	0.100	0.002
35	27	0.096	0.096	0.000
35	28	0.098	0.100	0.002
35	29	0.098	0.098	0.000
35	30	0.098	0.100	0.002
35	31	0.098	0.100	0.002
50	32	0.098	0.100	0.002
50	33	0.096	0.100	0.004
50	34	0.098	0.098	0.000
50	35	0.094	0.100	0.006
50	36	0.098	0.098	0.000
55	37	0.096	0.100	0.004
55	38	0.096	0.098	0.002
55	39	0.096	0.100	0.004
55	40	0.096	0.100	0.004
55	41	0.098	0.100	0.002
100	42	0.096	0.100	0.004
100	43	0.098	0.098	0.000
100	44	0.096	0.100	0.004
100	45	0.094	0.098	0.004
100	46	0.096	0.100	0.004
105	47	0.094	0.098	0.004
105	48	0.096	0.100	0.004
105	49	0.096	0.100	0.004
105	50	0.096	0.100	0.004
105	51	0.098	0.102	0.004
Max		0.100	0.102	0.006
Average		0.097	0.100	0.003
Min		0.094	0.096	0.000
Std Dev		0.001	0.001	0.002



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.100	0.098	0.096	0.098	0.098	0.098	0.096	0.098	0.098	0.098	0.098
Average	0.100	0.100	0.099	0.100	0.099	0.100	0.099	0.099	0.100	0.099	0.100
Max	0.100	0.102	0.100	0.102	0.100	0.100	0.100	0.100	0.100	0.100	0.102
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

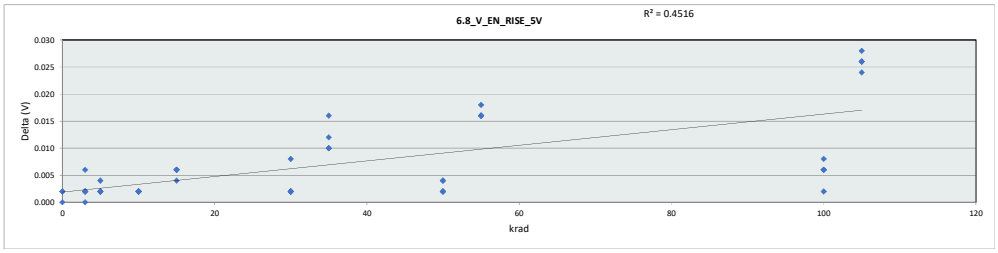


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

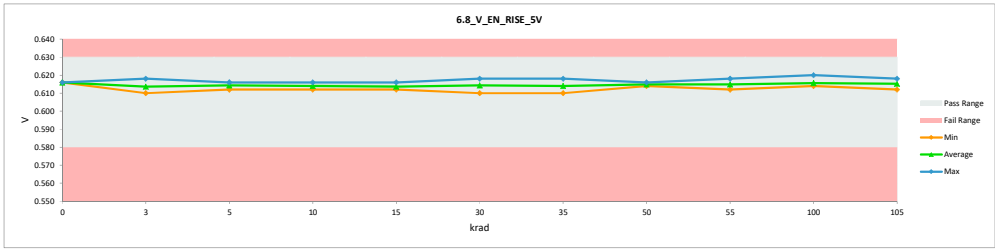
	6.8_V_EN_RISE_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.616	0.616	0.000
0	69	0.614	0.616	0.002
0	70	0.614	0.616	0.002
3	1	0.610	0.612	0.002
3	2	0.608	0.610	0.002
3	3	0.612	0.618	0.006
3	4	0.614	0.614	0.000
3	5	0.612	0.614	0.002
5	6	0.612	0.616	0.004
5	7	0.614	0.616	0.002
5	8	0.610	0.612	0.002
5	9	0.612	0.614	0.002
5	10	0.612	0.614	0.002
10	11	0.612	0.614	0.002
10	12	0.610	0.612	0.002
10	13	0.614	0.616	0.002
10	14	0.610	0.612	0.002
10	15	0.614	0.616	0.002
15	16	0.608	0.614	0.006
15	17	0.610	0.616	0.006
15	19	0.608	0.612	0.004
15	20	0.608	0.614	0.006
15	21	0.606	0.612	0.006
30	22	0.614	0.616	0.002
30	23	0.612	0.614	0.002
30	24	0.608	0.610	0.002
30	25	0.610	0.618	0.008
30	26	0.612	0.614	0.002
35	27	0.604	0.614	0.010
35	28	0.600	0.616	0.016
35	29	0.600	0.610	0.010
35	30	0.602	0.612	0.010
35	31	0.606	0.618	0.012
50	32	0.614	0.616	0.002
50	33	0.612	0.614	0.002
50	34	0.610	0.614	0.004
50	35	0.612	0.614	0.002
50	36	0.612	0.616	0.004
55	37	0.600	0.616	0.016
55	38	0.600	0.616	0.016
55	39	0.596	0.612	0.016
55	40	0.602	0.618	0.016
55	41	0.594	0.612	0.018
100	42	0.608	0.614	0.006
100	43	0.608	0.614	0.006
100	44	0.610	0.616	0.006
100	45	0.612	0.614	0.002
100	46	0.612	0.620	0.008
105	47	0.588	0.614	0.026
105	48	0.588	0.612	0.024
105	49	0.590	0.616	0.026
105	50	0.588	0.616	0.028
105	51	0.592	0.618	0.026
Max		0.616	0.620	0.028
Average		0.607	0.615	0.007
Min		0.588	0.610	0.000
Std Dev		0.008	0.002	0.008



	6.8_V_EN_RISE_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.616	0.610	0.612	0.612	0.612	0.610	0.610	0.614	0.612	0.614	0.612
Average	0.616	0.614	0.614	0.614	0.614	0.614	0.614	0.615	0.615	0.616	0.615
Max	0.616	0.618	0.616	0.616	0.616	0.618	0.618	0.616	0.618	0.620	0.618
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

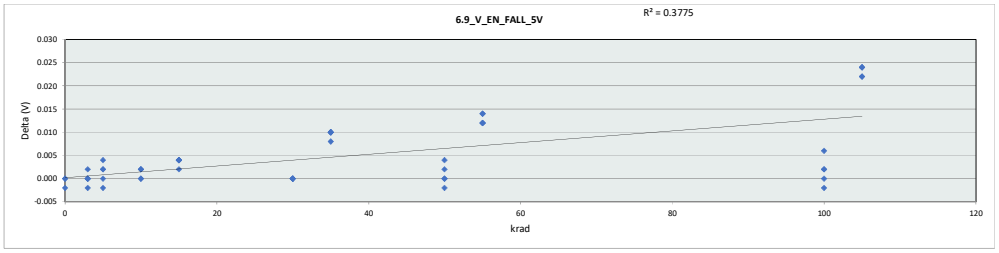


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

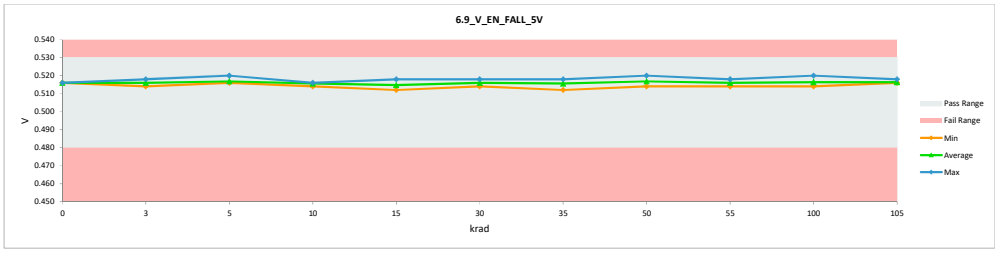
	6.9_V_EN_FALL_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.518	0.516	-0.002
0	69	0.516	0.516	0.000
0	70	0.516	0.516	0.000
3	1	0.514	0.516	0.002
3	2	0.514	0.514	0.000
3	3	0.518	0.518	0.000
3	4	0.516	0.516	0.000
3	5	0.518	0.516	-0.002
5	6	0.516	0.516	0.000
5	7	0.518	0.516	-0.002
5	8	0.514	0.516	0.002
5	9	0.516	0.520	0.004
5	10	0.514	0.516	0.002
10	11	0.514	0.516	0.002
10	12	0.514	0.516	0.002
10	13	0.516	0.516	0.000
10	14	0.512	0.514	0.002
10	15	0.516	0.516	0.000
15	16	0.512	0.514	0.002
15	17	0.514	0.518	0.004
15	19	0.510	0.514	0.004
15	20	0.512	0.516	0.004
15	21	0.508	0.512	0.004
30	22	0.518	0.518	0.000
30	23	0.516	0.516	0.000
30	24	0.514	0.514	0.000
30	25	0.518	0.518	0.000
30	26	0.514	0.514	0.000
35	27	0.508	0.518	0.010
35	28	0.508	0.516	0.008
35	29	0.502	0.512	0.010
35	30	0.504	0.514	0.010
35	31	0.508	0.518	0.010
50	32	0.518	0.516	-0.002
50	33	0.514	0.514	0.000
50	34	0.514	0.518	0.004
50	35	0.516	0.516	0.000
50	36	0.518	0.520	0.002
55	37	0.504	0.516	0.012
55	38	0.504	0.516	0.012
55	39	0.500	0.514	0.014
55	40	0.506	0.518	0.012
55	41	0.502	0.516	0.014
100	42	0.512	0.514	0.002
100	43	0.516	0.516	0.000
100	44	0.514	0.516	0.002
100	45	0.518	0.516	-0.002
100	46	0.514	0.520	0.006
105	47	0.494	0.516	0.022
105	48	0.492	0.516	0.024
105	49	0.494	0.518	0.024
105	50	0.492	0.516	0.024
105	51	0.494	0.516	0.022
Max		0.518	0.520	0.024
Average		0.511	0.516	0.005
Min		0.492	0.512	-0.002
Std Dev		0.007	0.002	0.007



	6.9_V_EN_FALL_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.516	0.514	0.516	0.514	0.512	0.514	0.512	0.514	0.514	0.514	0.516
Average	0.516	0.516	0.517	0.516	0.515	0.516	0.516	0.517	0.516	0.516	0.516
Max	0.516	0.518	0.520	0.516	0.518	0.518	0.518	0.520	0.518	0.520	0.518
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

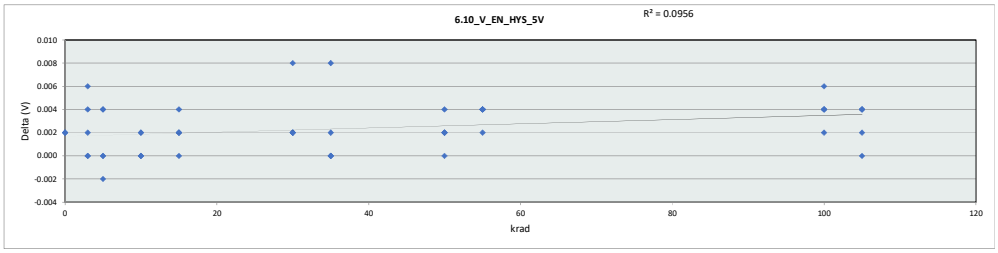


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

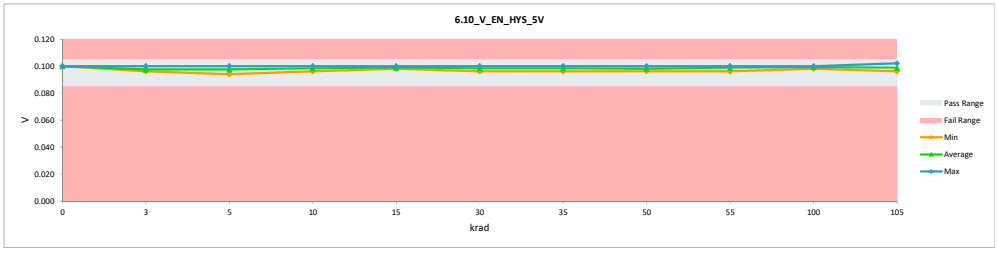
	6.10_V_EN_HYS_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.105	0.105
Min Limit	0.085	0.085

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.098	0.100	0.002
0	69	0.098	0.100	0.002
0	70	0.098	0.100	0.002
3	1	0.096	0.096	0.000
3	2	0.094	0.096	0.002
3	3	0.094	0.100	0.006
3	4	0.098	0.098	0.000
3	5	0.094	0.098	0.004
5	6	0.096	0.100	0.004
5	7	0.096	0.100	0.004
5	8	0.096	0.096	0.000
5	9	0.096	0.094	-0.002
5	10	0.098	0.098	0.000
10	11	0.098	0.098	0.000
10	12	0.096	0.096	0.000
10	13	0.098	0.100	0.002
10	14	0.098	0.098	0.000
10	15	0.098	0.100	0.002
15	16	0.096	0.100	0.004
15	17	0.096	0.098	0.002
15	19	0.098	0.098	0.000
15	20	0.096	0.098	0.002
15	21	0.098	0.100	0.002
30	22	0.096	0.098	0.002
30	23	0.096	0.098	0.002
30	24	0.094	0.096	0.002
30	25	0.092	0.100	0.008
30	26	0.098	0.100	0.002
35	27	0.096	0.096	0.000
35	28	0.092	0.100	0.008
35	29	0.098	0.098	0.000
35	30	0.098	0.098	0.000
35	31	0.098	0.100	0.002
50	32	0.096	0.100	0.004
50	33	0.098	0.100	0.002
50	34	0.096	0.096	0.000
50	35	0.096	0.098	0.002
50	36	0.094	0.096	0.002
55	37	0.096	0.100	0.004
55	38	0.096	0.100	0.004
55	39	0.096	0.098	0.002
55	40	0.096	0.100	0.004
55	41	0.092	0.096	0.004
100	42	0.096	0.100	0.004
100	43	0.092	0.098	0.006
100	44	0.096	0.100	0.004
100	45	0.094	0.098	0.004
100	46	0.098	0.100	0.002
105	47	0.094	0.098	0.004
105	48	0.096	0.096	0.000
105	49	0.096	0.098	0.002
105	50	0.096	0.100	0.004
105	51	0.098	0.102	0.004
Max		0.098	0.102	0.008
Average		0.096	0.098	0.002
Min		0.092	0.094	-0.002
Std Dev		0.002	0.002	0.002



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.100	0.096	0.094	0.096	0.098	0.096	0.096	0.096	0.096	0.098	0.096
Average	0.100	0.098	0.098	0.098	0.099	0.098	0.098	0.098	0.099	0.099	0.099
Max	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.102
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

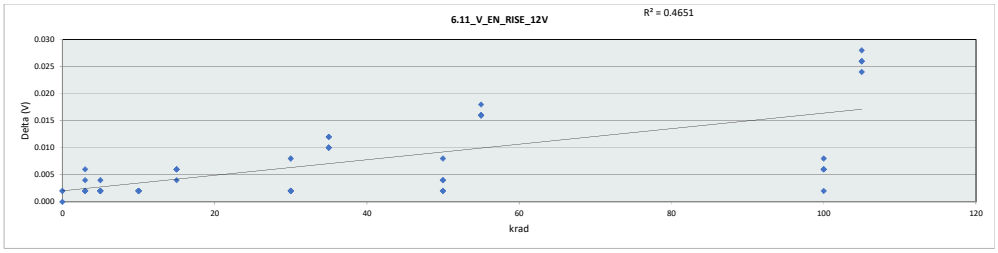


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

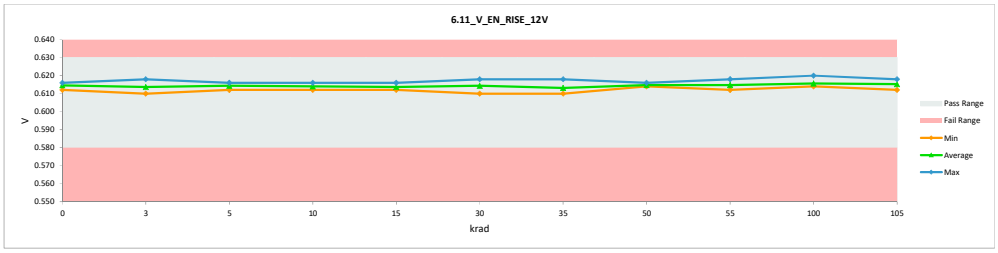
	6.11_V_EN_RISE_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.616	0.616	0.000
0	69	0.610	0.612	0.002
0	70	0.614	0.616	0.002
3	1	0.610	0.612	0.002
3	2	0.608	0.610	0.002
3	3	0.612	0.618	0.006
3	4	0.610	0.614	0.004
3	5	0.612	0.614	0.002
5	6	0.612	0.616	0.004
5	7	0.614	0.616	0.002
5	8	0.610	0.612	0.002
5	9	0.612	0.614	0.002
5	10	0.612	0.614	0.002
10	11	0.612	0.614	0.002
10	12	0.610	0.612	0.002
10	13	0.614	0.616	0.002
10	14	0.610	0.612	0.002
10	15	0.614	0.616	0.002
15	16	0.608	0.614	0.006
15	17	0.610	0.616	0.006
15	19	0.608	0.612	0.004
15	20	0.608	0.614	0.006
15	21	0.606	0.612	0.006
30	22	0.614	0.616	0.002
30	23	0.612	0.614	0.002
30	24	0.608	0.610	0.002
30	25	0.610	0.618	0.008
30	26	0.612	0.614	0.002
35	27	0.604	0.614	0.010
35	28	0.600	0.612	0.012
35	29	0.600	0.610	0.010
35	30	0.602	0.612	0.010
35	31	0.606	0.618	0.012
50	32	0.608	0.616	0.008
50	33	0.612	0.614	0.002
50	34	0.610	0.614	0.004
50	35	0.612	0.614	0.002
50	36	0.612	0.616	0.004
55	37	0.600	0.616	0.016
55	38	0.600	0.616	0.016
55	39	0.596	0.612	0.016
55	40	0.602	0.618	0.016
55	41	0.594	0.612	0.018
100	42	0.608	0.614	0.006
100	43	0.608	0.614	0.006
100	44	0.610	0.616	0.006
100	45	0.612	0.614	0.002
100	46	0.612	0.620	0.008
105	47	0.588	0.614	0.026
105	48	0.588	0.612	0.024
105	49	0.590	0.616	0.026
105	50	0.588	0.616	0.028
105	51	0.592	0.618	0.026
Max		0.616	0.620	0.028
Average		0.607	0.614	0.008
Min		0.588	0.610	0.000
Std Dev		0.007	0.002	0.008



	6.11_V_EN_RISE_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.612	0.610	0.612	0.612	0.612	0.610	0.610	0.614	0.612	0.614	0.612
Average	0.615	0.614	0.614	0.614	0.614	0.614	0.613	0.615	0.615	0.616	0.615
Max	0.616	0.618	0.616	0.616	0.616	0.618	0.618	0.616	0.618	0.620	0.618
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

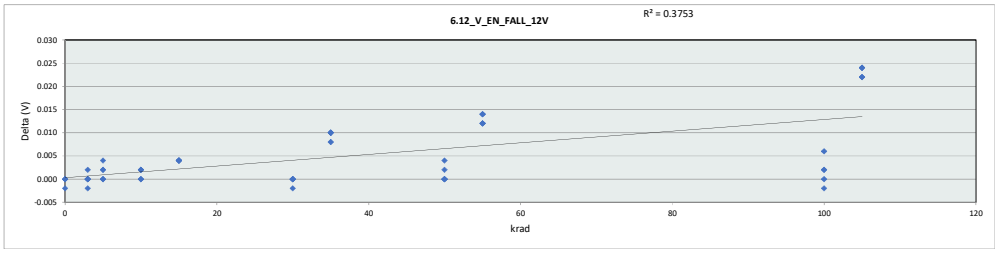


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

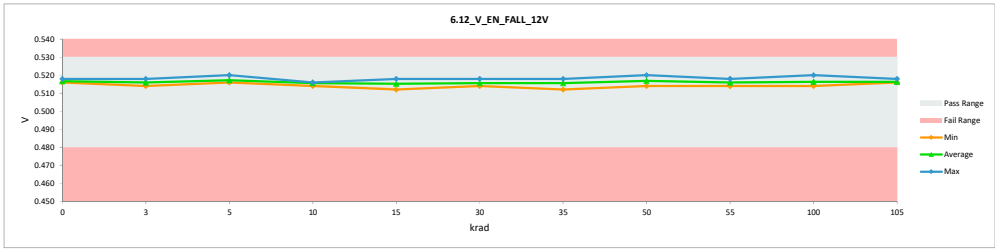
	6.12_V_EN_FALL_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.518	0.516	-0.002
0	69	0.518	0.518	0.000
0	70	0.516	0.516	0.000
3	1	0.514	0.516	0.002
3	2	0.514	0.514	0.000
3	3	0.518	0.518	0.000
3	4	0.516	0.516	0.000
3	5	0.518	0.516	-0.002
5	6	0.516	0.516	0.000
5	7	0.518	0.518	0.000
5	8	0.514	0.516	0.002
5	9	0.516	0.520	0.004
5	10	0.514	0.516	0.002
10	11	0.514	0.516	0.002
10	12	0.514	0.516	0.002
10	13	0.516	0.516	0.000
10	14	0.512	0.514	0.002
10	15	0.516	0.516	0.000
15	16	0.512	0.516	0.004
15	17	0.514	0.518	0.004
15	19	0.510	0.514	0.004
15	20	0.512	0.516	0.004
15	21	0.508	0.512	0.004
30	22	0.518	0.516	-0.002
30	23	0.516	0.516	0.000
30	24	0.514	0.514	0.000
30	25	0.518	0.518	0.000
30	26	0.514	0.514	0.000
35	27	0.508	0.518	0.010
35	28	0.508	0.516	0.008
35	29	0.502	0.512	0.010
35	30	0.504	0.514	0.010
35	31	0.508	0.518	0.010
50	32	0.516	0.516	0.000
50	33	0.514	0.514	0.000
50	34	0.514	0.518	0.004
50	35	0.516	0.516	0.000
50	36	0.518	0.520	0.002
55	37	0.504	0.516	0.012
55	38	0.504	0.516	0.012
55	39	0.500	0.514	0.014
55	40	0.506	0.518	0.012
55	41	0.502	0.516	0.014
100	42	0.512	0.514	0.002
100	43	0.516	0.516	0.000
100	44	0.514	0.516	0.002
100	45	0.518	0.516	-0.002
100	46	0.514	0.520	0.006
105	47	0.494	0.516	0.022
105	48	0.492	0.516	0.024
105	49	0.494	0.518	0.024
105	50	0.492	0.516	0.024
105	51	0.494	0.516	0.022
Max		0.518	0.520	0.024
Average		0.511	0.516	0.005
Min		0.492	0.512	-0.002
Std Dev		0.007	0.002	0.007



	6.12_V_EN_FALL_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.516	0.514	0.516	0.514	0.512	0.514	0.512	0.514	0.514	0.514	0.516
Average	0.517	0.516	0.517	0.516	0.515	0.516	0.516	0.517	0.516	0.516	0.516
Max	0.518	0.518	0.520	0.516	0.518	0.518	0.518	0.520	0.518	0.520	0.518
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

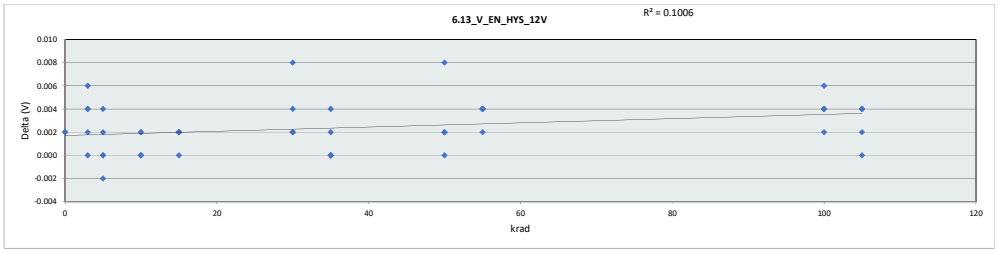


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

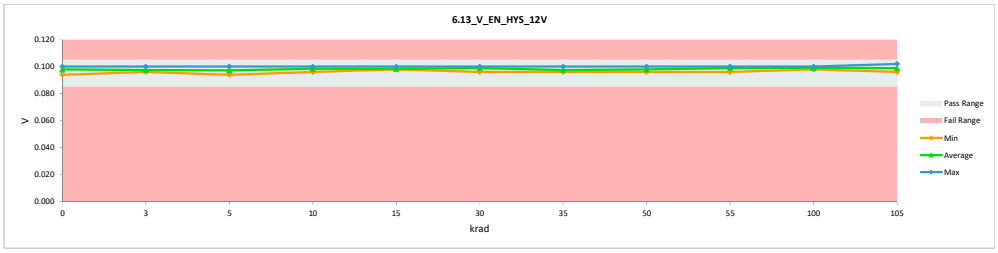
	6.13_V_EN_HYS_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.105	0.105
Min Limit	0.085	0.085

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.098	0.100	0.002
0	69	0.092	0.094	0.002
0	70	0.098	0.100	0.002
3	1	0.096	0.096	0.000
3	2	0.094	0.096	0.002
3	3	0.094	0.100	0.006
3	4	0.094	0.098	0.004
3	5	0.094	0.098	0.004
5	6	0.096	0.100	0.004
5	7	0.096	0.098	0.002
5	8	0.096	0.096	0.000
5	9	0.096	0.094	-0.002
5	10	0.098	0.098	0.000
10	11	0.098	0.098	0.000
10	12	0.096	0.096	0.000
10	13	0.098	0.100	0.002
10	14	0.098	0.098	0.000
10	15	0.098	0.100	0.002
15	16	0.096	0.098	0.002
15	17	0.096	0.098	0.002
15	19	0.098	0.098	0.000
15	20	0.096	0.098	0.002
15	21	0.098	0.100	0.002
30	22	0.096	0.100	0.004
30	23	0.096	0.098	0.002
30	24	0.094	0.096	0.002
30	25	0.092	0.100	0.008
30	26	0.098	0.100	0.002
35	27	0.096	0.096	0.000
35	28	0.092	0.096	0.004
35	29	0.098	0.098	0.000
35	30	0.098	0.098	0.000
35	31	0.098	0.100	0.002
50	32	0.092	0.100	0.008
50	33	0.098	0.100	0.002
50	34	0.096	0.096	0.000
50	35	0.096	0.098	0.002
50	36	0.094	0.096	0.002
55	37	0.096	0.100	0.004
55	38	0.096	0.100	0.004
55	39	0.096	0.098	0.002
55	40	0.096	0.100	0.004
55	41	0.092	0.096	0.004
100	42	0.096	0.100	0.004
100	43	0.092	0.098	0.006
100	44	0.096	0.100	0.004
100	45	0.094	0.098	0.004
100	46	0.098	0.100	0.002
105	47	0.094	0.098	0.004
105	48	0.096	0.096	0.000
105	49	0.096	0.098	0.002
105	50	0.096	0.100	0.004
105	51	0.098	0.102	0.004
Max		0.098	0.102	0.008
Average		0.096	0.098	0.002
Min		0.092	0.094	-0.002
Std Dev		0.002	0.002	0.002



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.094	0.096	0.094	0.096	0.098	0.096	0.096	0.096	0.096	0.098	0.096
Average	0.098	0.098	0.097	0.098	0.098	0.099	0.098	0.098	0.099	0.099	0.099
Max	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.102
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

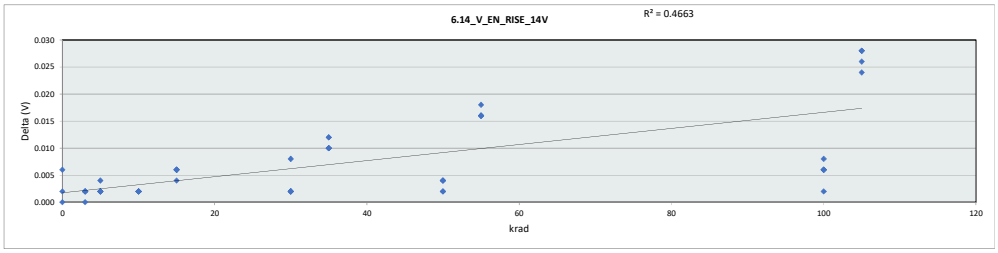


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

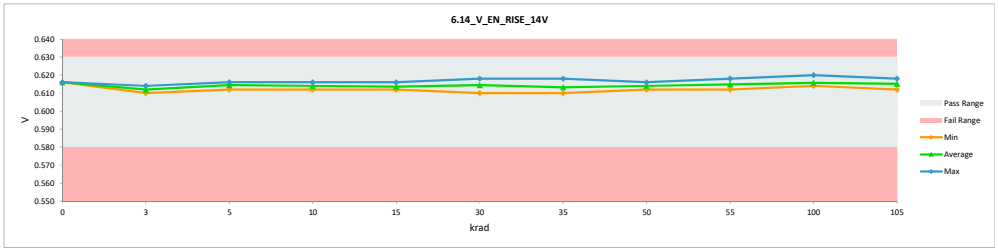
	6.14_V_EN_RISE_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.616	0.616	0.000
0	69	0.610	0.616	0.006
0	70	0.614	0.616	0.002
3	1	0.610	0.612	0.002
3	2	0.608	0.610	0.002
3	3	0.612	0.612	0.000
3	4	0.610	0.612	0.002
3	5	0.612	0.614	0.002
5	6	0.612	0.616	0.004
5	7	0.614	0.616	0.002
5	8	0.610	0.612	0.002
5	9	0.612	0.614	0.002
5	10	0.612	0.614	0.002
10	11	0.612	0.614	0.002
10	12	0.610	0.612	0.002
10	13	0.614	0.616	0.002
10	14	0.610	0.612	0.002
10	15	0.614	0.616	0.002
15	16	0.608	0.614	0.006
15	17	0.610	0.616	0.006
15	19	0.608	0.612	0.004
15	20	0.608	0.614	0.006
15	21	0.606	0.612	0.006
30	22	0.614	0.616	0.002
30	23	0.612	0.614	0.002
30	24	0.608	0.610	0.002
30	25	0.610	0.618	0.008
30	26	0.612	0.614	0.002
35	27	0.604	0.614	0.010
35	28	0.600	0.612	0.012
35	29	0.600	0.610	0.010
35	30	0.602	0.612	0.010
35	31	0.606	0.618	0.012
50	32	0.608	0.612	0.004
50	33	0.612	0.614	0.002
50	34	0.610	0.614	0.004
50	35	0.612	0.614	0.002
50	36	0.612	0.616	0.004
55	37	0.600	0.616	0.016
55	38	0.600	0.616	0.016
55	39	0.596	0.612	0.016
55	40	0.602	0.618	0.016
55	41	0.594	0.612	0.018
100	42	0.608	0.614	0.006
100	43	0.608	0.614	0.006
100	44	0.610	0.616	0.006
100	45	0.612	0.614	0.002
100	46	0.612	0.620	0.008
105	47	0.586	0.614	0.028
105	48	0.588	0.612	0.024
105	49	0.588	0.616	0.028
105	50	0.588	0.616	0.028
105	51	0.592	0.618	0.026
Max		0.616	0.620	0.028
Average		0.607	0.614	0.007
Min		0.586	0.610	0.000
Std Dev		0.008	0.002	0.008



	6.14_V_EN_RISE_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.616	0.610	0.612	0.612	0.612	0.610	0.610	0.612	0.612	0.614	0.612
Average	0.616	0.612	0.614	0.614	0.614	0.614	0.613	0.614	0.615	0.616	0.615
Max	0.616	0.614	0.616	0.616	0.616	0.618	0.618	0.616	0.618	0.620	0.618
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

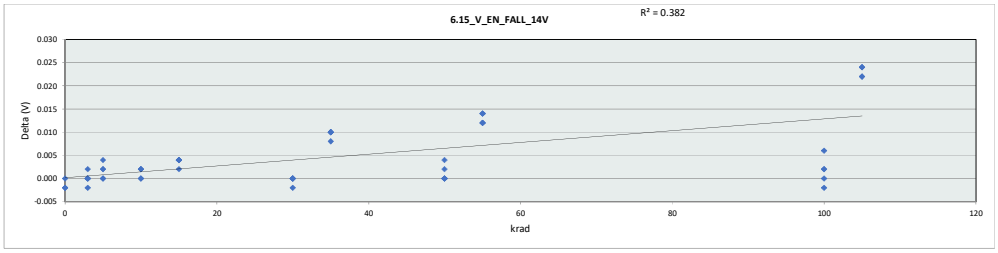


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

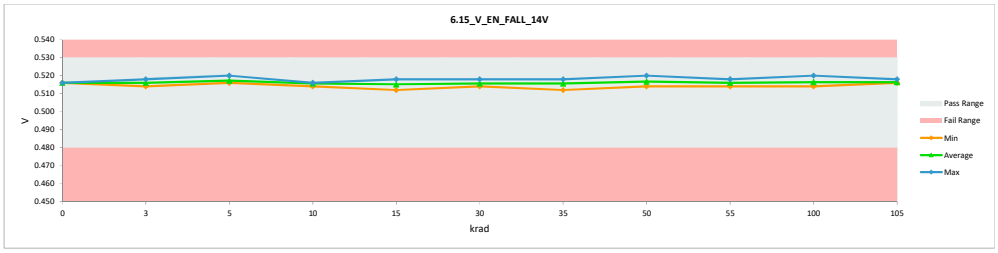
	6.15_V_EN_FALL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.518	0.516	-0.002
0	69	0.518	0.516	-0.002
0	70	0.516	0.516	0.000
3	1	0.514	0.516	0.002
3	2	0.514	0.514	0.000
3	3	0.518	0.518	0.000
3	4	0.516	0.516	0.000
3	5	0.518	0.516	-0.002
5	6	0.516	0.516	0.000
5	7	0.518	0.518	0.000
5	8	0.514	0.516	0.002
5	9	0.516	0.520	0.004
5	10	0.514	0.516	0.002
10	11	0.514	0.516	0.002
10	12	0.514	0.516	0.002
10	13	0.516	0.516	0.000
10	14	0.512	0.514	0.002
10	15	0.516	0.516	0.000
15	16	0.512	0.516	0.004
15	17	0.514	0.518	0.004
15	19	0.510	0.514	0.004
15	20	0.512	0.516	0.004
15	21	0.510	0.512	0.002
30	22	0.518	0.516	-0.002
30	23	0.516	0.516	0.000
30	24	0.514	0.514	0.000
30	25	0.518	0.518	0.000
30	26	0.514	0.514	0.000
35	27	0.508	0.518	0.010
35	28	0.508	0.516	0.008
35	29	0.502	0.512	0.010
35	30	0.504	0.514	0.010
35	31	0.508	0.518	0.010
50	32	0.516	0.516	0.000
50	33	0.514	0.514	0.000
50	34	0.514	0.518	0.004
50	35	0.516	0.516	0.000
50	36	0.518	0.520	0.002
55	37	0.504	0.516	0.012
55	38	0.504	0.516	0.012
55	39	0.500	0.514	0.014
55	40	0.506	0.518	0.012
55	41	0.502	0.516	0.014
100	42	0.512	0.514	0.002
100	43	0.516	0.516	0.000
100	44	0.514	0.516	0.002
100	45	0.518	0.516	-0.002
100	46	0.514	0.520	0.006
105	47	0.494	0.516	0.022
105	48	0.492	0.516	0.024
105	49	0.494	0.518	0.024
105	50	0.492	0.516	0.024
105	51	0.494	0.516	0.022
Max		0.518	0.520	0.024
Average		0.511	0.516	0.005
Min		0.492	0.512	-0.002
Std Dev		0.007	0.002	0.007



	6.15_V_EN_FALL_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.516	0.514	0.516	0.514	0.512	0.514	0.512	0.514	0.514	0.514	0.516
Average	0.516	0.516	0.517	0.516	0.515	0.516	0.516	0.517	0.516	0.516	0.516
Max	0.516	0.518	0.520	0.516	0.518	0.518	0.518	0.520	0.518	0.520	0.518
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

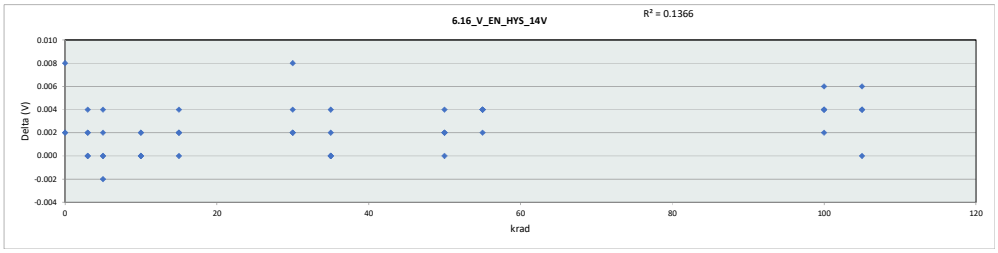


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

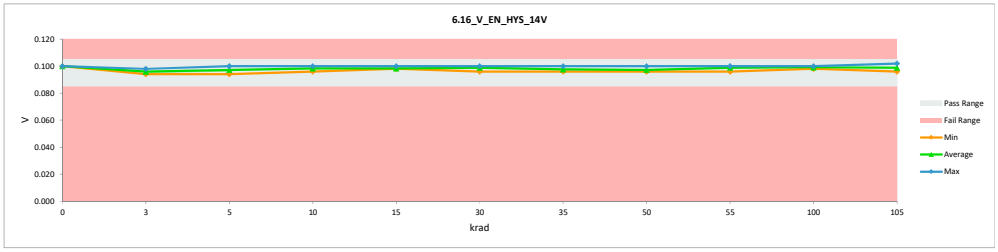
	6.16_V_EN_HYS_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.105	0.105
Min Limit	0.085	0.085

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.098	0.100	0.002
0	69	0.092	0.100	0.008
0	70	0.098	0.100	0.002
3	1	0.096	0.096	0.000
3	2	0.094	0.096	0.002
3	3	0.094	0.094	0.000
3	4	0.094	0.096	0.002
3	5	0.094	0.098	0.004
5	6	0.096	0.100	0.004
5	7	0.096	0.098	0.002
5	8	0.096	0.096	0.000
5	9	0.096	0.094	-0.002
5	10	0.098	0.098	0.000
10	11	0.098	0.098	0.000
10	12	0.096	0.096	0.000
10	13	0.098	0.100	0.002
10	14	0.098	0.098	0.000
10	15	0.098	0.100	0.002
15	16	0.096	0.098	0.002
15	17	0.096	0.098	0.002
15	19	0.098	0.098	0.000
15	20	0.096	0.098	0.002
15	21	0.096	0.100	0.004
30	22	0.096	0.100	0.004
30	23	0.096	0.098	0.002
30	24	0.094	0.096	0.002
30	25	0.092	0.100	0.008
30	26	0.098	0.100	0.002
35	27	0.096	0.096	0.000
35	28	0.092	0.096	0.004
35	29	0.098	0.098	0.000
35	30	0.098	0.098	0.000
35	31	0.098	0.100	0.002
50	32	0.092	0.096	0.004
50	33	0.098	0.100	0.002
50	34	0.096	0.096	0.000
50	35	0.096	0.098	0.002
50	36	0.094	0.096	0.002
55	37	0.096	0.100	0.004
55	38	0.096	0.100	0.004
55	39	0.096	0.098	0.002
55	40	0.096	0.100	0.004
55	41	0.092	0.096	0.004
100	42	0.096	0.100	0.004
100	43	0.092	0.098	0.006
100	44	0.096	0.100	0.004
100	45	0.094	0.098	0.004
100	46	0.098	0.100	0.002
105	47	0.092	0.098	0.006
105	48	0.096	0.096	0.000
105	49	0.094	0.098	0.004
105	50	0.096	0.100	0.004
105	51	0.098	0.102	0.004
Max		0.098	0.102	0.008
Average		0.096	0.098	0.002
Min		0.092	0.094	-0.002
Std Dev		0.002	0.002	0.002



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.100	0.094	0.094	0.096	0.098	0.096	0.096	0.096	0.096	0.098	0.096
Average	0.100	0.096	0.097	0.098	0.098	0.099	0.098	0.097	0.099	0.099	0.099
Max	0.100	0.098	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.102
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

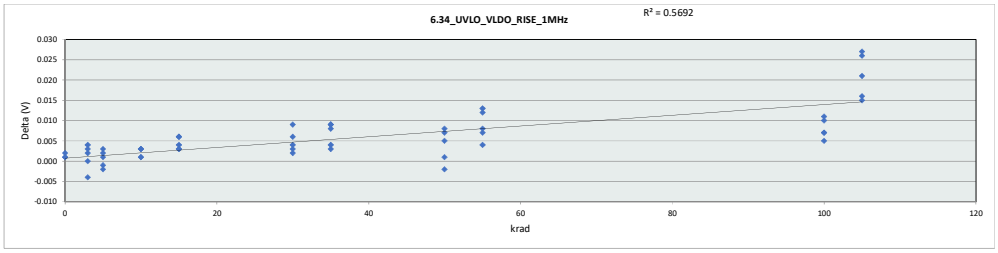


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

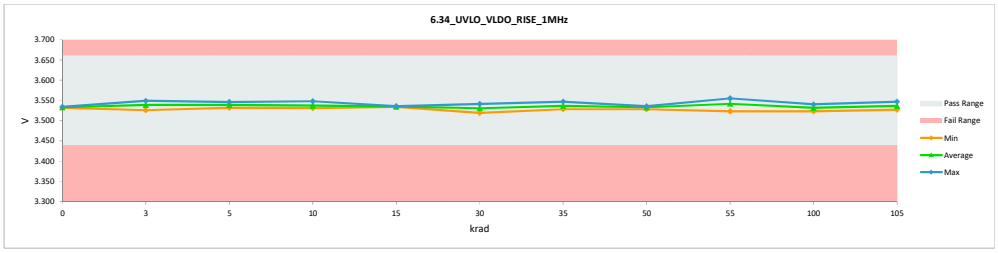
	6.34_UVLO_VLDO_RISE_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.531	3.532	0.001
0	69	3.532	3.533	0.001
0	70	3.532	3.534	0.002
3	1	3.526	3.526	0.000
3	2	3.540	3.543	0.003
3	3	3.542	3.538	-0.004
3	4	3.534	3.538	0.004
3	5	3.547	3.549	0.002
5	6	3.547	3.546	-0.001
5	7	3.535	3.536	0.001
5	8	3.529	3.532	0.003
5	9	3.538	3.536	-0.002
5	10	3.544	3.546	0.002
10	11	3.531	3.534	0.003
10	12	3.528	3.531	0.003
10	13	3.538	3.541	0.003
10	14	3.547	3.548	0.001
10	15	3.533	3.534	0.001
15	16	3.530	3.534	0.004
15	17	3.533	3.536	0.003
15	19	3.529	3.535	0.006
15	20	3.529	3.535	0.006
15	21	3.531	3.534	0.003
30	22	3.530	3.533	0.003
30	23	3.521	3.523	0.002
30	24	3.531	3.537	0.006
30	25	3.537	3.541	0.004
30	26	3.510	3.519	0.009
35	27	3.519	3.528	0.009
35	28	3.534	3.543	0.009
35	29	3.539	3.547	0.008
35	30	3.526	3.530	0.004
35	31	3.530	3.533	0.003
50	32	3.523	3.528	0.005
50	33	3.529	3.536	0.007
50	34	3.526	3.534	0.008
50	35	3.530	3.531	0.001
50	36	3.538	3.536	-0.002
55	37	3.537	3.550	0.013
55	38	3.520	3.527	0.007
55	39	3.515	3.523	0.008
55	40	3.549	3.553	0.004
55	41	3.543	3.555	0.012
100	42	3.520	3.527	0.007
100	43	3.535	3.540	0.005
100	44	3.516	3.523	0.007
100	45	3.525	3.536	0.011
100	46	3.522	3.532	0.010
105	47	3.510	3.531	0.021
105	48	3.512	3.539	0.027
105	49	3.531	3.547	0.016
105	50	3.513	3.539	0.026
105	51	3.512	3.527	0.015
Max		3.549	3.555	0.027
Average		3.530	3.536	0.006
Min		3.510	3.519	-0.004
Std Dev		0.010	0.008	0.006



	6.34_UVLO_VLDO_RISE_1MHz	
Test Site		
Tester		
Test Number		
Max Limit	3.66	V
Min Limit	3.44	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.532	3.526	3.532	3.531	3.534	3.519	3.528	3.528	3.523	3.523	3.527
Average	3.533	3.539	3.539	3.538	3.535	3.531	3.536	3.533	3.542	3.532	3.537
Max	3.534	3.549	3.546	3.548	3.536	3.541	3.547	3.536	3.555	3.540	3.547
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

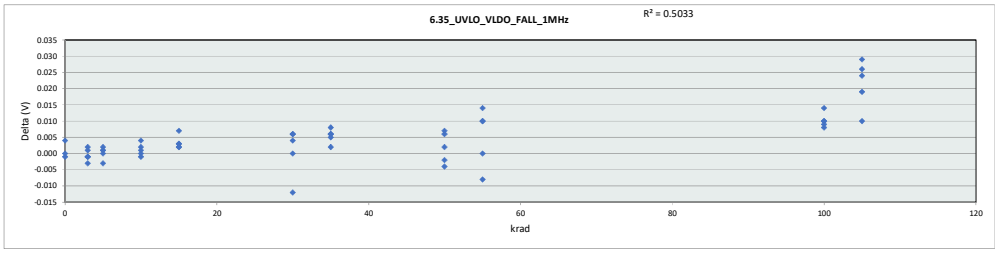


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

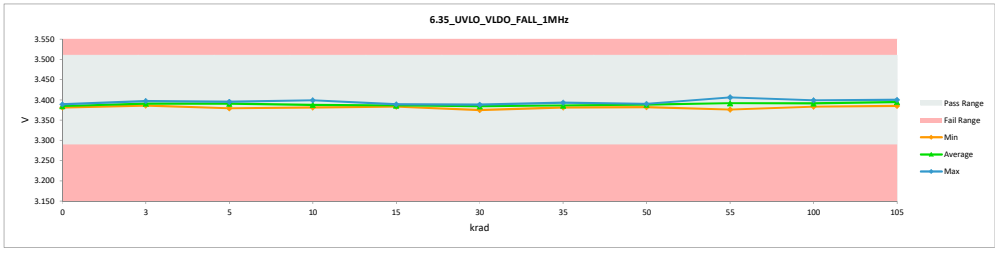
	6.35_UVLO_VLDO_FALL_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.384	3.384	0.000
0	69	3.382	3.381	-0.001
0	70	3.385	3.389	0.004
3	1	3.389	3.388	-0.001
3	2	3.389	3.391	0.002
3	3	3.391	3.390	-0.001
3	4	3.385	3.386	0.001
3	5	3.400	3.397	-0.003
5	6	3.395	3.395	0.000
5	7	3.392	3.394	0.002
5	8	3.378	3.379	0.001
5	9	3.392	3.393	0.001
5	10	3.396	3.393	-0.003
10	11	3.383	3.382	-0.001
10	12	3.377	3.381	0.004
10	13	3.387	3.389	0.002
10	14	3.399	3.399	0.000
10	15	3.385	3.386	0.001
15	16	3.385	3.388	0.003
15	17	3.387	3.389	0.002
15	19	3.379	3.386	0.007
15	20	3.383	3.385	0.002
15	21	3.380	3.383	0.003
30	22	3.381	3.385	0.004
30	23	3.369	3.375	0.006
30	24	3.384	3.384	0.000
30	25	3.400	3.388	-0.012
30	26	3.382	3.388	0.006
35	27	3.377	3.382	0.005
35	28	3.383	3.389	0.006
35	29	3.391	3.393	0.002
35	30	3.375	3.381	0.006
35	31	3.378	3.386	0.008
50	32	3.381	3.388	0.007
50	33	3.384	3.390	0.006
50	34	3.394	3.390	-0.004
50	35	3.384	3.382	-0.002
50	36	3.387	3.389	0.002
55	37	3.390	3.400	0.010
55	38	3.384	3.376	-0.008
55	39	3.367	3.377	0.010
55	40	3.400	3.400	0.000
55	41	3.392	3.406	0.014
100	42	3.373	3.383	0.010
100	43	3.386	3.394	0.008
100	44	3.377	3.386	0.009
100	45	3.380	3.394	0.014
100	46	3.389	3.399	0.010
105	47	3.375	3.385	0.010
105	48	3.364	3.388	0.024
105	49	3.380	3.399	0.019
105	50	3.371	3.400	0.029
105	51	3.373	3.399	0.026
Max		3.400	3.406	0.029
Average		3.384	3.389	0.005
Min		3.364	3.375	-0.012
Std Dev		0.008	0.007	0.008



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.381	3.386	3.379	3.381	3.383	3.375	3.381	3.382	3.376	3.383	3.385
Average	3.385	3.390	3.391	3.387	3.386	3.384	3.386	3.388	3.392	3.391	3.394
Max	3.389	3.397	3.395	3.399	3.389	3.388	3.393	3.390	3.406	3.399	3.400
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

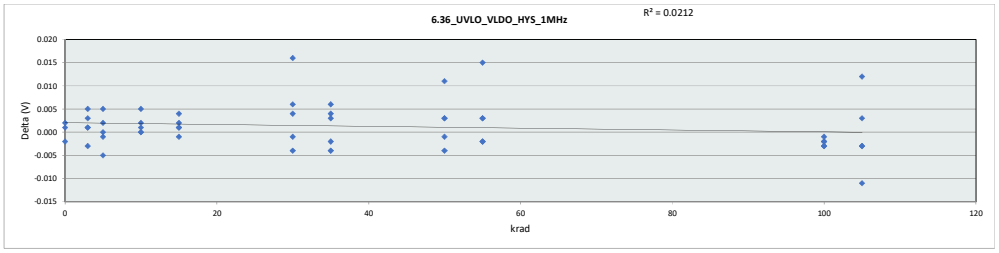


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

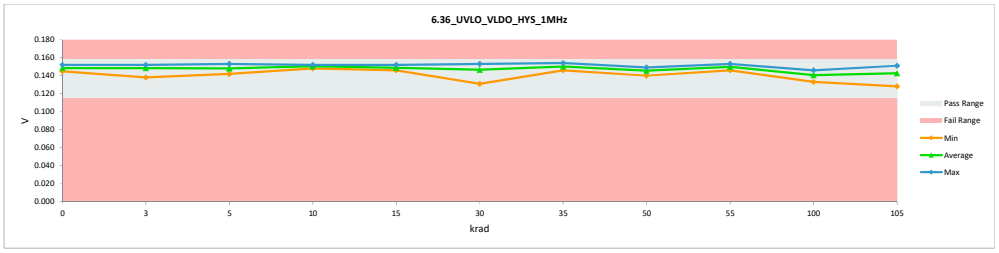
	6.36_UVLO_VLDO_HYS_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.16	0.158
Min Limit	0.115	0.115

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.147	0.148	0.001
0	69	0.150	0.152	0.002
0	70	0.147	0.145	-0.002
3	1	0.137	0.138	0.001
3	2	0.151	0.152	0.001
3	3	0.151	0.148	-0.003
3	4	0.149	0.152	0.003
3	5	0.147	0.152	0.005
5	6	0.152	0.151	-0.001
5	7	0.142	0.142	0.000
5	8	0.151	0.153	0.002
5	9	0.147	0.142	-0.005
5	10	0.148	0.153	0.005
10	11	0.147	0.152	0.005
10	12	0.150	0.150	0.000
10	13	0.151	0.152	0.001
10	14	0.148	0.150	0.002
10	15	0.148	0.148	0.000
15	16	0.145	0.146	0.001
15	17	0.145	0.147	0.002
15	19	0.150	0.149	-0.001
15	20	0.146	0.150	0.004
15	21	0.151	0.152	0.001
30	22	0.149	0.148	-0.001
30	23	0.152	0.148	-0.004
30	24	0.147	0.153	0.006
30	25	0.137	0.153	0.016
30	26	0.127	0.131	0.004
35	27	0.142	0.146	0.004
35	28	0.151	0.154	0.003
35	29	0.148	0.154	0.006
35	30	0.151	0.149	-0.002
35	31	0.151	0.147	-0.004
50	32	0.141	0.140	-0.001
50	33	0.144	0.147	0.003
50	34	0.133	0.144	0.011
50	35	0.146	0.149	0.003
50	36	0.151	0.147	-0.004
55	37	0.147	0.150	0.003
55	38	0.136	0.151	0.015
55	39	0.148	0.146	-0.002
55	40	0.150	0.153	0.003
55	41	0.151	0.149	-0.002
100	42	0.147	0.144	-0.003
100	43	0.148	0.146	-0.002
100	44	0.139	0.137	-0.002
100	45	0.146	0.143	-0.003
100	46	0.134	0.133	-0.001
105	47	0.135	0.147	0.012
105	48	0.148	0.151	0.003
105	49	0.151	0.148	-0.003
105	50	0.142	0.139	-0.003
105	51	0.139	0.128	-0.011
Max		0.152	0.154	0.016
Average		0.146	0.147	0.001
Min		0.127	0.128	-0.011
Std Dev		0.006	0.006	0.005



	6.36_UVLO_VLDO_HYS_1MHz	
Test Site		
Tester		
Test Number		
Max Limit	0.158	V
Min Limit	0.115	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.145	0.138	0.142	0.148	0.146	0.131	0.146	0.140	0.146	0.133	0.128
Average	0.148	0.148	0.148	0.150	0.149	0.147	0.150	0.145	0.150	0.141	0.143
Max	0.152	0.152	0.153	0.152	0.152	0.153	0.154	0.149	0.153	0.146	0.151
UL	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

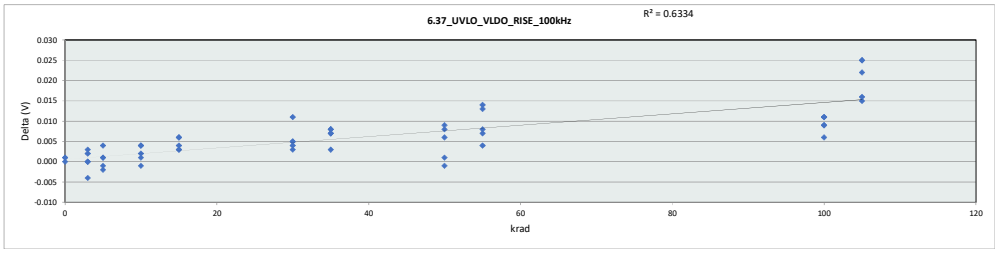


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

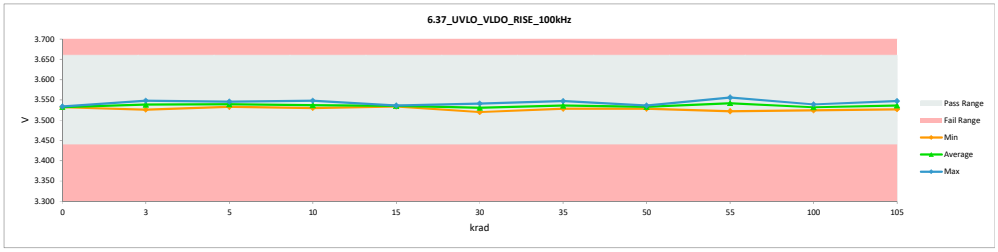
	6.37_UVLO_VLDO_RISE_100k	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.532	3.532	0.000
0	69	3.531	3.532	0.001
0	70	3.533	3.534	0.001
3	1	3.526	3.526	0.000
3	2	3.541	3.543	0.002
3	3	3.542	3.538	-0.004
3	4	3.535	3.538	0.003
3	5	3.548	3.548	0.000
5	6	3.548	3.546	-0.002
5	7	3.535	3.536	0.001
5	8	3.529	3.533	0.004
5	9	3.537	3.536	-0.001
5	10	3.545	3.546	0.001
10	11	3.530	3.534	0.004
10	12	3.529	3.530	0.001
10	13	3.537	3.541	0.004
10	14	3.546	3.548	0.002
10	15	3.533	3.532	-0.001
15	16	3.531	3.534	0.003
15	17	3.532	3.536	0.004
15	19	3.529	3.535	0.006
15	20	3.529	3.535	0.006
15	21	3.532	3.535	0.003
30	22	3.529	3.534	0.005
30	23	3.520	3.523	0.003
30	24	3.531	3.536	0.005
30	25	3.537	3.541	0.004
30	26	3.509	3.520	0.011
35	27	3.520	3.528	0.008
35	28	3.534	3.542	0.008
35	29	3.540	3.547	0.007
35	30	3.524	3.531	0.007
35	31	3.530	3.533	0.003
50	32	3.522	3.528	0.006
50	33	3.528	3.536	0.008
50	34	3.525	3.534	0.009
50	35	3.531	3.532	0.001
50	36	3.537	3.536	-0.001
55	37	3.537	3.550	0.013
55	38	3.519	3.527	0.008
55	39	3.515	3.522	0.007
55	40	3.550	3.554	0.004
55	41	3.542	3.556	0.014
100	42	3.519	3.528	0.009
100	43	3.533	3.539	0.006
100	44	3.515	3.524	0.009
100	45	3.525	3.536	0.011
100	46	3.522	3.533	0.011
105	47	3.509	3.531	0.022
105	48	3.514	3.539	0.025
105	49	3.532	3.547	0.015
105	50	3.514	3.539	0.025
105	51	3.511	3.527	0.016
Max		3.550	3.556	0.025
Average		3.530	3.536	0.006
Min		3.509	3.520	-0.004
Std Dev		0.010	0.008	0.006



	6.37_UVLO_VLDO_RISE_100kH	
Test Site		
Tester		
Test Number		
Max Limit	3.66	V
Min Limit	3.44	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.532	3.526	3.533	3.530	3.534	3.520	3.528	3.528	3.522	3.524	3.527
Average	3.533	3.539	3.539	3.537	3.535	3.531	3.536	3.533	3.542	3.532	3.537
Max	3.534	3.548	3.546	3.548	3.536	3.541	3.547	3.536	3.556	3.539	3.547
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

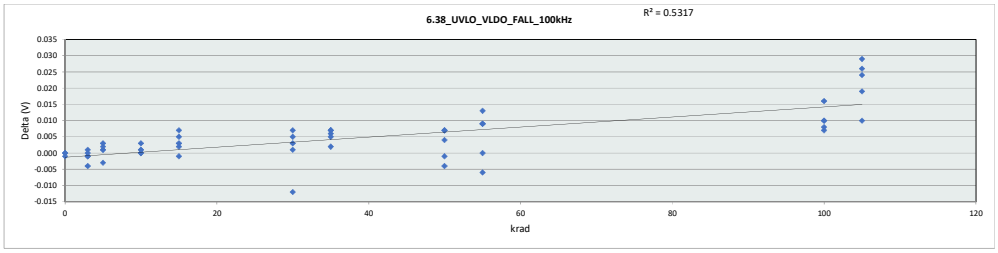


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

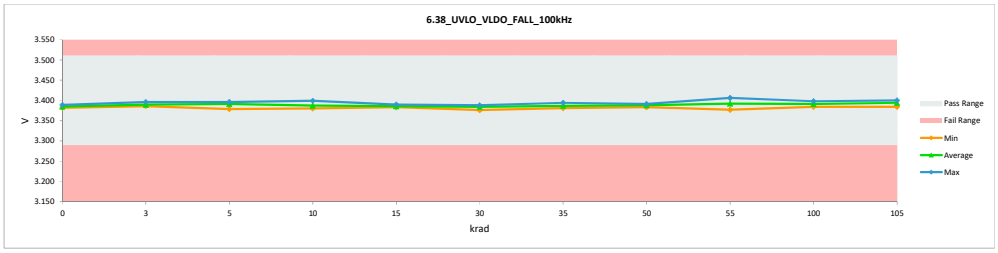
	6.38_UVLO_VLDO_FALL_100k	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.385	3.384	-0.001
0	69	3.382	3.382	0.000
0	70	3.389	3.389	0.000
3	1	3.389	3.388	-0.001
3	2	3.391	3.390	-0.001
3	3	3.390	3.390	0.000
3	4	3.385	3.386	0.001
3	5	3.400	3.396	-0.004
5	6	3.395	3.396	0.001
5	7	3.392	3.394	0.002
5	8	3.378	3.379	0.001
5	9	3.391	3.394	0.003
5	10	3.396	3.393	-0.003
10	11	3.383	3.383	0.000
10	12	3.377	3.380	0.003
10	13	3.388	3.389	0.001
10	14	3.399	3.399	0.000
10	15	3.385	3.386	0.001
15	16	3.384	3.389	0.005
15	17	3.387	3.390	0.003
15	19	3.378	3.385	0.007
15	20	3.384	3.383	-0.001
15	21	3.381	3.383	0.002
30	22	3.381	3.384	0.003
30	23	3.369	3.376	0.007
30	24	3.384	3.385	0.001
30	25	3.400	3.388	-0.012
30	26	3.383	3.388	0.005
35	27	3.377	3.382	0.005
35	28	3.383	3.390	0.007
35	29	3.392	3.394	0.002
35	30	3.375	3.381	0.006
35	31	3.378	3.385	0.007
50	32	3.380	3.387	0.007
50	33	3.384	3.391	0.007
50	34	3.394	3.390	-0.004
50	35	3.384	3.383	-0.001
50	36	3.385	3.389	0.004
55	37	3.390	3.399	0.009
55	38	3.383	3.377	-0.006
55	39	3.368	3.377	0.009
55	40	3.400	3.400	0.000
55	41	3.393	3.406	0.013
100	42	3.374	3.384	0.010
100	43	3.386	3.393	0.007
100	44	3.378	3.386	0.008
100	45	3.379	3.395	0.016
100	46	3.388	3.398	0.010
105	47	3.374	3.384	0.010
105	48	3.364	3.388	0.024
105	49	3.380	3.399	0.019
105	50	3.371	3.400	0.029
105	51	3.373	3.399	0.026
Max		3.400	3.406	0.029
Average		3.384	3.389	0.005
Min		3.364	3.376	-0.012
Std Dev		0.008	0.007	0.008



	6.38_UVLO_VLDO_FALL_100kH	
Test Site		
Tester		
Test Number		
Max Limit	3.51	V
Min Limit	3.29	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.382	3.386	3.379	3.380	3.383	3.376	3.381	3.383	3.377	3.384	3.384
Average	3.385	3.390	3.391	3.387	3.386	3.384	3.386	3.388	3.392	3.391	3.394
Max	3.389	3.396	3.396	3.399	3.390	3.388	3.394	3.391	3.406	3.398	3.400
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

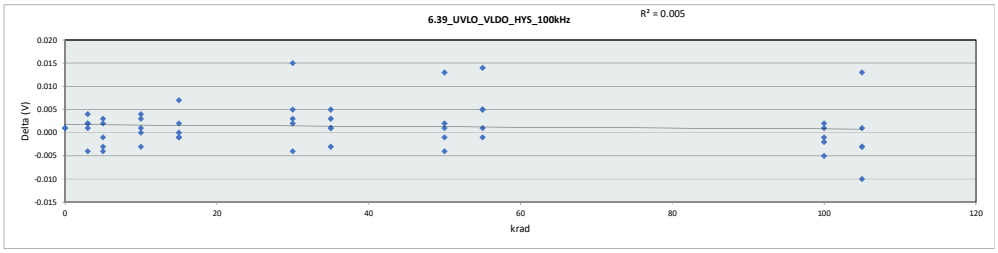


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

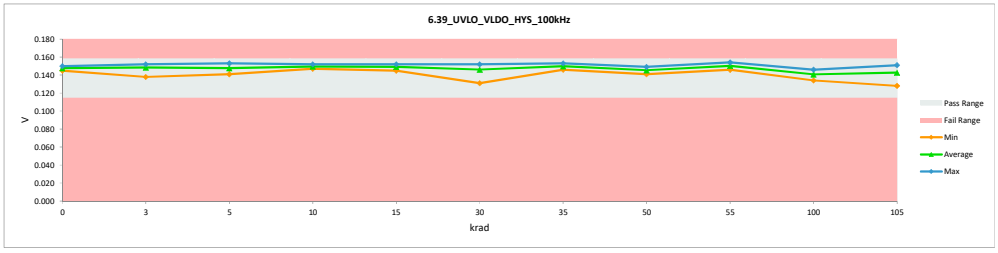
	6.39_UVLO_VLDO_HYS_100kH	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.16	0.158
Min Limit	0.115	0.115

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.147	0.148	0.001
0	69	0.149	0.150	0.001
0	70	0.144	0.145	0.001
3	1	0.137	0.138	0.001
3	2	0.150	0.152	0.002
3	3	0.152	0.148	-0.004
3	4	0.150	0.152	0.002
3	5	0.148	0.152	0.004
5	6	0.153	0.150	-0.003
5	7	0.142	0.141	-0.001
5	8	0.151	0.153	0.002
5	9	0.146	0.142	-0.004
5	10	0.149	0.152	0.003
10	11	0.147	0.151	0.004
10	12	0.152	0.149	-0.003
10	13	0.149	0.152	0.003
10	14	0.148	0.149	0.001
10	15	0.147	0.147	0.000
15	16	0.147	0.146	-0.001
15	17	0.145	0.145	0.000
15	19	0.151	0.150	-0.001
15	20	0.145	0.152	0.007
15	21	0.150	0.152	0.002
30	22	0.148	0.150	0.002
30	23	0.151	0.147	-0.004
30	24	0.148	0.151	0.003
30	25	0.137	0.152	0.015
30	26	0.126	0.131	0.005
35	27	0.143	0.146	0.003
35	28	0.151	0.152	0.001
35	29	0.148	0.153	0.005
35	30	0.149	0.150	0.001
35	31	0.151	0.148	-0.003
50	32	0.142	0.141	-0.001
50	33	0.144	0.145	0.001
50	34	0.131	0.144	0.013
50	35	0.147	0.149	0.002
50	36	0.152	0.148	-0.004
55	37	0.146	0.151	0.005
55	38	0.136	0.150	0.014
55	39	0.147	0.146	-0.001
55	40	0.149	0.154	0.005
55	41	0.149	0.150	0.001
100	42	0.145	0.144	-0.001
100	43	0.148	0.146	-0.002
100	44	0.136	0.138	0.002
100	45	0.147	0.142	-0.005
100	46	0.133	0.134	0.001
105	47	0.135	0.148	0.013
105	48	0.150	0.151	0.001
105	49	0.151	0.148	-0.003
105	50	0.142	0.139	-0.003
105	51	0.138	0.128	-0.010
	Max	0.153	0.154	0.015
	Average	0.146	0.147	0.001
	Min	0.126	0.128	-0.010
	Std Dev	0.006	0.006	0.005



	6.39_UVLO_VLDO_HYS_100kH	
Test Site		
Tester		
Test Number		
Max Limit	0.158	V
Min Limit	0.115	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.145	0.138	0.141	0.147	0.145	0.131	0.146	0.141	0.146	0.134	0.128
Average	0.148	0.148	0.148	0.150	0.149	0.146	0.150	0.145	0.150	0.141	0.143
Max	0.150	0.152	0.153	0.152	0.152	0.152	0.153	0.149	0.154	0.146	0.151
UL	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

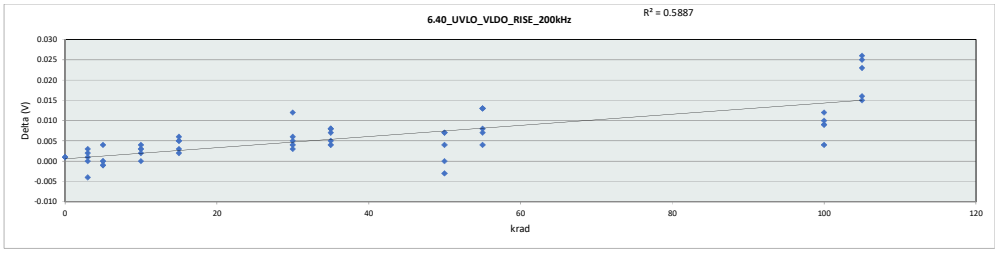


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

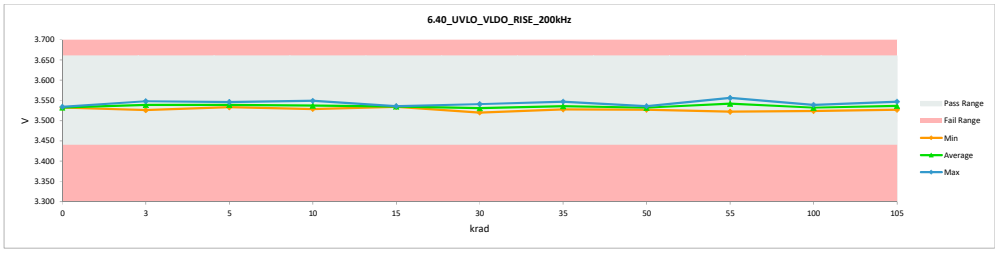
	6.40_UVLO_VLDO_RISE_200k	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.531	3.532	0.001
0	69	3.531	3.532	0.001
0	70	3.533	3.534	0.001
3	1	3.526	3.526	0.000
3	2	3.541	3.543	0.002
3	3	3.543	3.539	-0.004
3	4	3.535	3.538	0.003
3	5	3.547	3.548	0.001
5	6	3.547	3.546	-0.001
5	7	3.535	3.535	0.000
5	8	3.529	3.533	0.004
5	9	3.537	3.536	-0.001
5	10	3.545	3.545	0.000
10	11	3.530	3.534	0.004
10	12	3.529	3.529	0.000
10	13	3.538	3.541	0.003
10	14	3.546	3.549	0.003
10	15	3.531	3.533	0.002
15	16	3.531	3.534	0.003
15	17	3.531	3.536	0.005
15	19	3.529	3.534	0.005
15	20	3.529	3.535	0.006
15	21	3.532	3.534	0.002
30	22	3.529	3.533	0.004
30	23	3.520	3.523	0.003
30	24	3.531	3.537	0.006
30	25	3.536	3.541	0.005
30	26	3.508	3.520	0.012
35	27	3.520	3.528	0.008
35	28	3.534	3.542	0.008
35	29	3.540	3.547	0.007
35	30	3.525	3.530	0.005
35	31	3.529	3.533	0.004
50	32	3.523	3.527	0.004
50	33	3.529	3.536	0.007
50	34	3.526	3.533	0.007
50	35	3.530	3.530	0.000
50	36	3.538	3.535	-0.003
55	37	3.537	3.550	0.013
55	38	3.520	3.528	0.008
55	39	3.515	3.522	0.007
55	40	3.550	3.554	0.004
55	41	3.543	3.556	0.013
100	42	3.519	3.528	0.009
100	43	3.535	3.539	0.004
100	44	3.515	3.524	0.009
100	45	3.525	3.537	0.012
100	46	3.522	3.532	0.010
105	47	3.508	3.531	0.023
105	48	3.513	3.539	0.026
105	49	3.532	3.547	0.015
105	50	3.514	3.539	0.025
105	51	3.511	3.527	0.016
Max		3.550	3.556	0.026
Average		3.530	3.536	0.006
Min		3.508	3.520	-0.004
Std Dev		0.010	0.008	0.006



	6.40_UVLO_VLDO_RISE_200k	
Test Site		
Tester		
Test Number		
Max Limit	3.66	V
Min Limit	3.44	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.532	3.526	3.533	3.529	3.534	3.520	3.528	3.527	3.522	3.524	3.527
Average	3.533	3.539	3.539	3.537	3.535	3.531	3.536	3.532	3.542	3.532	3.537
Max	3.534	3.548	3.546	3.549	3.536	3.541	3.547	3.536	3.556	3.539	3.547
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

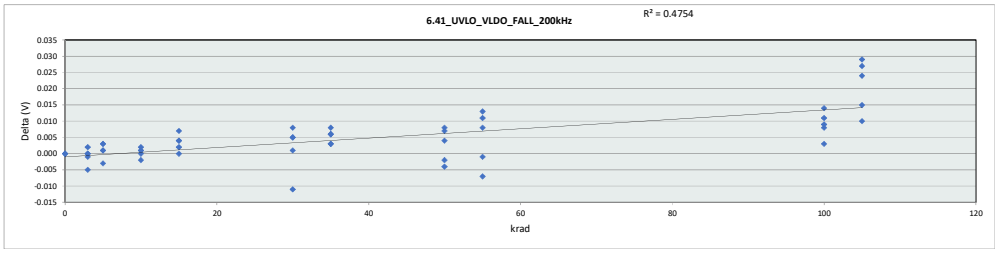


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

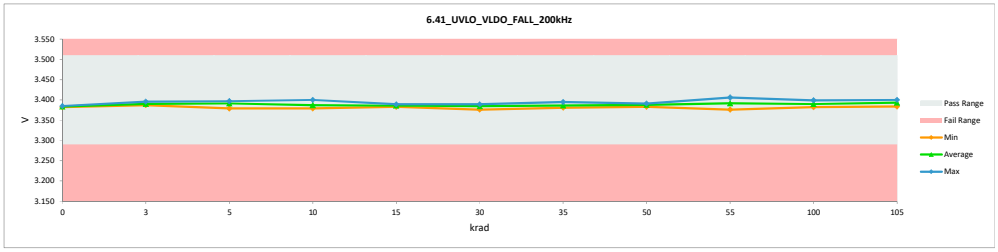
	6.41_UVLO_VLDO_FALL_200k	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.384	3.384	0.000
0	69	3.382	3.382	0.000
0	70	3.385	3.385	0.000
3	1	3.388	3.388	0.000
3	2	3.391	3.391	0.000
3	3	3.391	3.390	-0.001
3	4	3.385	3.387	0.002
3	5	3.401	3.396	-0.005
5	6	3.394	3.397	0.003
5	7	3.391	3.394	0.003
5	8	3.378	3.379	0.001
5	9	3.392	3.393	0.001
5	10	3.396	3.393	-0.003
10	11	3.384	3.382	-0.002
10	12	3.378	3.379	0.001
10	13	3.387	3.388	0.001
10	14	3.398	3.400	0.002
10	15	3.386	3.386	0.000
15	16	3.384	3.388	0.004
15	17	3.387	3.389	0.002
15	19	3.379	3.386	0.007
15	20	3.384	3.384	0.000
15	21	3.379	3.383	0.004
30	22	3.380	3.385	0.005
30	23	3.368	3.376	0.008
30	24	3.384	3.385	0.001
30	25	3.400	3.389	-0.011
30	26	3.383	3.388	0.005
35	27	3.378	3.381	0.003
35	28	3.383	3.389	0.006
35	29	3.392	3.395	0.003
35	30	3.375	3.381	0.006
35	31	3.378	3.386	0.008
50	32	3.380	3.388	0.008
50	33	3.384	3.391	0.007
50	34	3.393	3.389	-0.004
50	35	3.385	3.383	-0.002
50	36	3.385	3.389	0.004
55	37	3.391	3.399	0.008
55	38	3.383	3.376	-0.007
55	39	3.367	3.378	0.011
55	40	3.400	3.399	-0.001
55	41	3.393	3.406	0.013
100	42	3.374	3.382	0.008
100	43	3.386	3.389	0.003
100	44	3.377	3.386	0.009
100	45	3.379	3.393	0.014
100	46	3.388	3.399	0.011
105	47	3.374	3.384	0.010
105	48	3.364	3.388	0.024
105	49	3.379	3.394	0.015
105	50	3.371	3.400	0.029
105	51	3.372	3.399	0.027
	Max	3.401	3.406	0.029
	Average	3.384	3.389	0.005
	Min	3.364	3.376	-0.011
	Std Dev	0.008	0.007	0.008



	6.41_UVLO_VLDO_FALL_200k	
Test Site		
Tester		
Test Number		
Max Limit	3.51	V
Min Limit	3.29	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.382	3.387	3.379	3.379	3.383	3.376	3.381	3.383	3.376	3.382	3.384
Average	3.384	3.390	3.391	3.387	3.386	3.385	3.386	3.388	3.392	3.390	3.393
Max	3.385	3.396	3.397	3.400	3.389	3.389	3.395	3.391	3.406	3.399	3.400
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

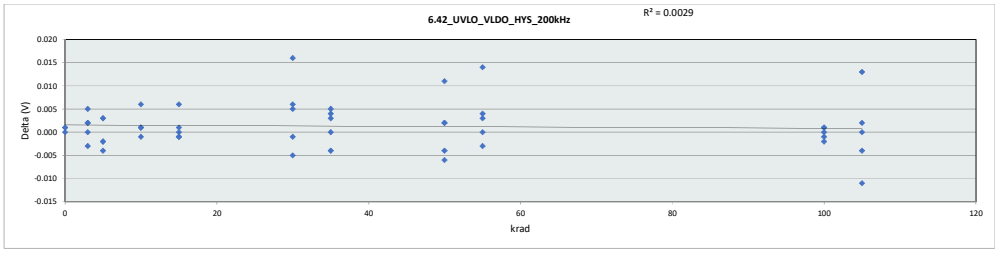


TID HDR Report
TPS7H5002-SP QMLP

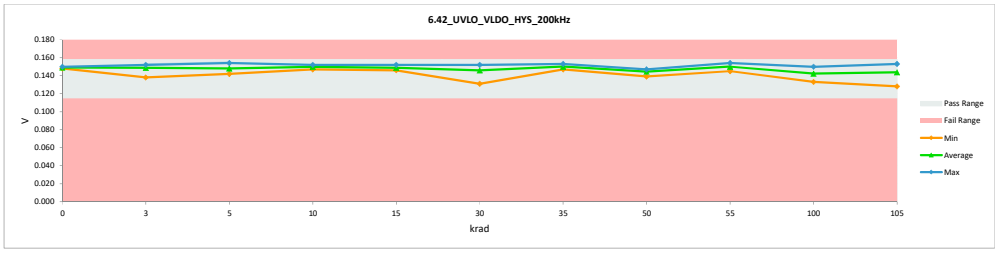
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	6.42_UVLO_VLDO_HYS_200kH	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.16	0.158
Min Limit	0.115	0.115

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.148	0.148	0.000
0	69	0.149	0.150	0.001
0	70	0.148	0.149	0.001
3	1	0.138	0.138	0.000
3	2	0.150	0.152	0.002
3	3	0.152	0.149	-0.003
3	4	0.150	0.152	0.002
3	5	0.147	0.152	0.005
5	6	0.153	0.149	-0.004
5	7	0.144	0.142	-0.002
5	8	0.151	0.154	0.003
5	9	0.145	0.143	-0.002
5	10	0.149	0.152	0.003
10	11	0.146	0.152	0.006
10	12	0.151	0.150	-0.001
10	13	0.151	0.152	0.001
10	14	0.147	0.148	0.001
10	15	0.146	0.147	0.001
15	16	0.147	0.146	-0.001
15	17	0.145	0.146	0.001
15	19	0.150	0.149	-0.001
15	20	0.145	0.151	0.006
15	21	0.152	0.152	0.000
30	22	0.149	0.148	-0.001
30	23	0.152	0.147	-0.005
30	24	0.147	0.152	0.005
30	25	0.136	0.152	0.016
30	26	0.125	0.131	0.006
35	27	0.142	0.147	0.005
35	28	0.150	0.153	0.003
35	29	0.148	0.152	0.004
35	30	0.150	0.150	0.000
35	31	0.152	0.148	-0.004
50	32	0.143	0.139	-0.004
50	33	0.144	0.146	0.002
50	34	0.133	0.144	0.011
50	35	0.145	0.147	0.002
50	36	0.152	0.146	-0.006
55	37	0.147	0.150	0.003
55	38	0.137	0.151	0.014
55	39	0.148	0.145	-0.003
55	40	0.150	0.154	0.004
55	41	0.150	0.150	0.000
100	42	0.145	0.146	0.001
100	43	0.149	0.150	0.001
100	44	0.138	0.138	0.000
100	45	0.146	0.144	-0.002
100	46	0.134	0.133	-0.001
105	47	0.134	0.147	0.013
105	48	0.149	0.151	0.002
105	49	0.153	0.153	0.000
105	50	0.143	0.139	-0.004
105	51	0.139	0.128	-0.011
	Max	0.153	0.154	0.016
	Average	0.146	0.147	0.001
	Min	0.125	0.128	-0.011
	Std Dev	0.006	0.006	0.005



	6.42_UVLO_VLDO_HYS_200kH										
Test Site											
Tester											
Test Number											
Max Limit	0.158	V									
Min Limit	0.115	V									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.148	0.138	0.142	0.147	0.146	0.131	0.147	0.139	0.145	0.133	0.128
Average	0.149	0.149	0.148	0.150	0.149	0.146	0.150	0.144	0.150	0.142	0.144
Max	0.150	0.152	0.154	0.152	0.152	0.152	0.153	0.147	0.154	0.150	0.153
UL	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

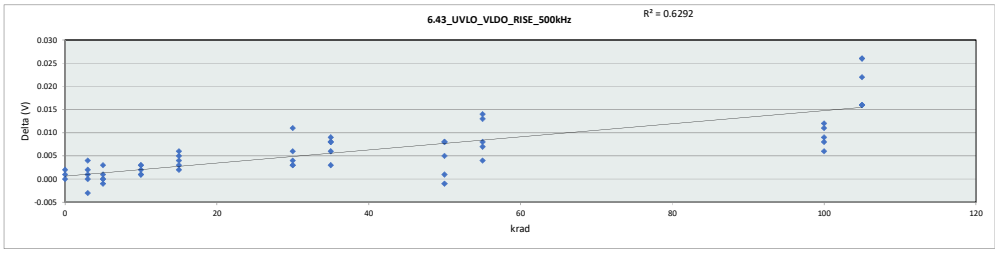


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

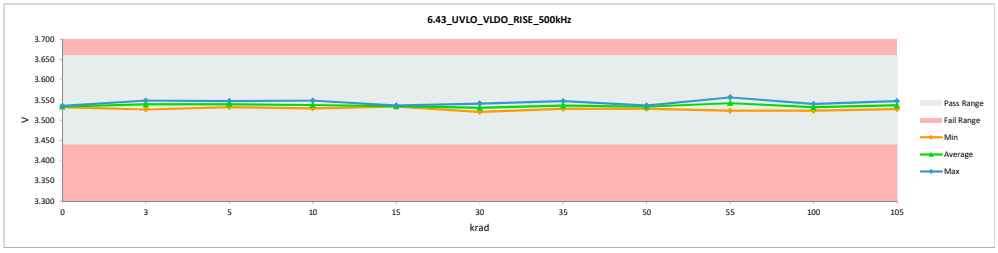
	6.43_UVLO_VLDO_RISE_500k	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.531	3.532	0.001
0	69	3.532	3.532	0.000
0	70	3.533	3.535	0.002
3	1	3.526	3.526	0.000
3	2	3.541	3.543	0.002
3	3	3.542	3.539	-0.003
3	4	3.534	3.538	0.004
3	5	3.547	3.548	0.001
5	6	3.547	3.547	0.000
5	7	3.535	3.535	0.000
5	8	3.529	3.532	0.003
5	9	3.537	3.536	-0.001
5	10	3.545	3.546	0.001
10	11	3.531	3.534	0.003
10	12	3.528	3.529	0.001
10	13	3.538	3.541	0.003
10	14	3.546	3.548	0.002
10	15	3.532	3.533	0.001
15	16	3.531	3.533	0.002
15	17	3.532	3.536	0.004
15	19	3.529	3.534	0.005
15	20	3.529	3.535	0.006
15	21	3.531	3.534	0.003
30	22	3.529	3.532	0.003
30	23	3.520	3.523	0.003
30	24	3.531	3.537	0.006
30	25	3.537	3.541	0.004
30	26	3.509	3.520	0.011
35	27	3.520	3.528	0.008
35	28	3.534	3.543	0.009
35	29	3.539	3.547	0.008
35	30	3.524	3.530	0.006
35	31	3.529	3.532	0.003
50	32	3.523	3.528	0.005
50	33	3.528	3.536	0.008
50	34	3.526	3.534	0.008
50	35	3.530	3.531	0.001
50	36	3.537	3.536	-0.001
55	37	3.537	3.550	0.013
55	38	3.520	3.527	0.007
55	39	3.515	3.523	0.008
55	40	3.549	3.553	0.004
55	41	3.542	3.556	0.014
100	42	3.518	3.527	0.009
100	43	3.534	3.540	0.006
100	44	3.515	3.523	0.008
100	45	3.525	3.537	0.012
100	46	3.521	3.532	0.011
105	47	3.509	3.531	0.022
105	48	3.513	3.539	0.026
105	49	3.531	3.547	0.016
105	50	3.514	3.540	0.026
105	51	3.511	3.527	0.016
Max		3.549	3.556	0.026
Average		3.530	3.536	0.006
Min		3.509	3.520	-0.003
Std Dev		0.010	0.008	0.006



	6.43_UVLO_VLDO_RISE_500kH	
Test Site		
Tester		
Test Number		
Max Limit	3.66	V
Min Limit	3.44	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.532	3.526	3.532	3.529	3.533	3.520	3.528	3.528	3.523	3.523	3.527
Average	3.533	3.539	3.539	3.537	3.534	3.531	3.536	3.533	3.542	3.532	3.537
Max	3.535	3.548	3.547	3.548	3.536	3.541	3.547	3.536	3.556	3.540	3.547
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

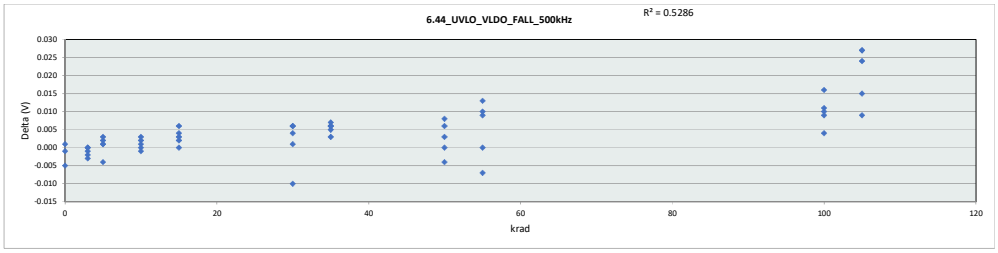


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

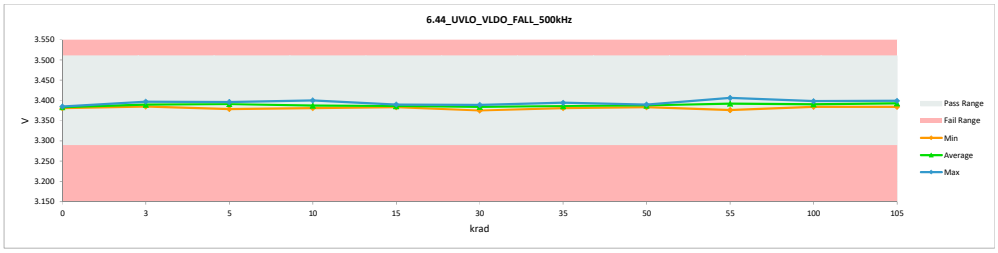
	6.44_UVLO_VLDO_FALL_500k	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.383	3.384	0.001
0	69	3.382	3.381	-0.001
0	70	3.390	3.385	-0.005
3	1	3.389	3.387	-0.002
3	2	3.390	3.390	0.000
3	3	3.391	3.390	-0.001
3	4	3.385	3.385	0.000
3	5	3.400	3.397	-0.003
5	6	3.395	3.396	0.001
5	7	3.391	3.394	0.003
5	8	3.378	3.379	0.001
5	9	3.392	3.394	0.002
5	10	3.396	3.392	-0.004
10	11	3.383	3.382	-0.001
10	12	3.378	3.381	0.003
10	13	3.387	3.388	0.001
10	14	3.398	3.400	0.002
10	15	3.385	3.385	0.000
15	16	3.384	3.388	0.004
15	17	3.387	3.390	0.003
15	19	3.379	3.385	0.006
15	20	3.384	3.384	0.000
15	21	3.381	3.383	0.002
30	22	3.380	3.384	0.004
30	23	3.369	3.375	0.006
30	24	3.384	3.385	0.001
30	25	3.399	3.389	-0.010
30	26	3.382	3.388	0.006
35	27	3.379	3.382	0.003
35	28	3.383	3.388	0.005
35	29	3.388	3.394	0.006
35	30	3.375	3.381	0.006
35	31	3.378	3.385	0.007
50	32	3.380	3.388	0.008
50	33	3.384	3.390	0.006
50	34	3.394	3.390	-0.004
50	35	3.383	3.383	0.000
50	36	3.385	3.388	0.003
55	37	3.390	3.400	0.010
55	38	3.384	3.377	-0.007
55	39	3.367	3.376	0.009
55	40	3.400	3.400	0.000
55	41	3.393	3.406	0.013
100	42	3.373	3.384	0.011
100	43	3.385	3.389	0.004
100	44	3.377	3.386	0.009
100	45	3.379	3.395	0.016
100	46	3.388	3.398	0.010
105	47	3.375	3.384	0.009
105	48	3.364	3.388	0.024
105	49	3.380	3.395	0.015
105	50	3.372	3.399	0.027
105	51	3.372	3.399	0.027
Max		3.400	3.406	0.027
Average		3.384	3.388	0.004
Min		3.364	3.375	-0.010
Std Dev		0.008	0.007	0.007



	6.44_UVLO_VLDO_FALL_500kH	
Test Site		
Tester		
Test Number		
Max Limit	3.51	V
Min Limit	3.29	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.381	3.385	3.379	3.381	3.383	3.375	3.381	3.383	3.376	3.384	3.384
Average	3.383	3.390	3.391	3.387	3.386	3.384	3.386	3.388	3.392	3.390	3.393
Max	3.385	3.397	3.396	3.400	3.390	3.389	3.394	3.390	3.406	3.398	3.399
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

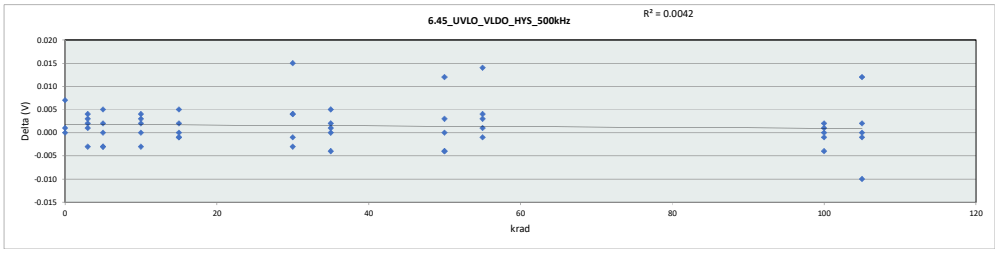


TID HDR Report
TPS7H5002-SP QMLP

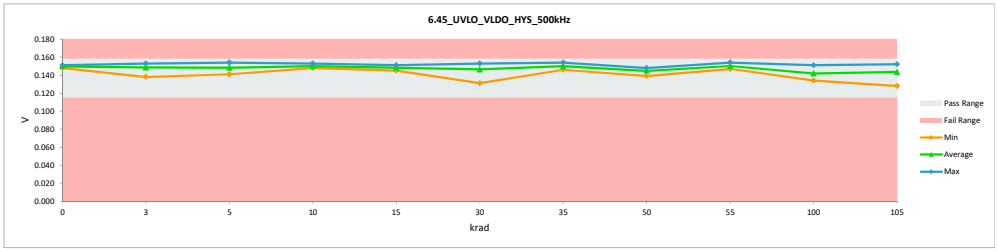
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	6.45_UVLO_VLDO_HYS_500kH	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.16	0.158
Min Limit	0.115	0.115

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.148	0.148	0.000
0	69	0.150	0.151	0.001
0	70	0.143	0.150	0.007
3	1	0.137	0.138	0.001
3	2	0.151	0.153	0.002
3	3	0.151	0.148	-0.003
3	4	0.149	0.153	0.004
3	5	0.148	0.151	0.003
5	6	0.151	0.151	0.000
5	7	0.144	0.141	-0.003
5	8	0.151	0.153	0.002
5	9	0.145	0.142	-0.003
5	10	0.149	0.154	0.005
10	11	0.148	0.152	0.004
10	12	0.151	0.148	-0.003
10	13	0.150	0.153	0.003
10	14	0.148	0.148	0.000
10	15	0.146	0.148	0.002
15	16	0.146	0.145	-0.001
15	17	0.144	0.146	0.002
15	19	0.150	0.149	-0.001
15	20	0.145	0.150	0.005
15	21	0.151	0.151	0.000
30	22	0.149	0.148	-0.001
30	23	0.151	0.148	-0.003
30	24	0.148	0.152	0.004
30	25	0.138	0.153	0.015
30	26	0.127	0.131	0.004
35	27	0.141	0.146	0.005
35	28	0.152	0.154	0.002
35	29	0.151	0.152	0.001
35	30	0.150	0.150	0.000
35	31	0.151	0.147	-0.004
50	32	0.143	0.139	-0.004
50	33	0.143	0.146	0.003
50	34	0.132	0.144	0.012
50	35	0.147	0.147	0.000
50	36	0.152	0.148	-0.004
55	37	0.147	0.150	0.003
55	38	0.136	0.150	0.014
55	39	0.148	0.147	-0.001
55	40	0.150	0.154	0.004
55	41	0.149	0.150	0.001
100	42	0.145	0.144	-0.001
100	43	0.149	0.151	0.002
100	44	0.138	0.138	0.000
100	45	0.146	0.142	-0.004
100	46	0.133	0.134	0.001
105	47	0.134	0.146	0.012
105	48	0.149	0.151	0.002
105	49	0.152	0.152	0.000
105	50	0.142	0.141	-0.001
105	51	0.138	0.128	-0.010
Max		0.152	0.154	0.015
Average		0.146	0.147	0.001
Min		0.127	0.128	-0.010
Std Dev		0.006	0.006	0.005



	6.45_UVLO_VLDO_HYS_500kH										
Test Site											
Tester											
Test Number											
Max Limit	0.158	V									
Min Limit	0.115	V									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.148	0.138	0.141	0.148	0.145	0.131	0.146	0.139	0.147	0.134	0.128
Average	0.150	0.149	0.148	0.150	0.148	0.146	0.150	0.145	0.150	0.142	0.144
Max	0.151	0.153	0.154	0.153	0.151	0.153	0.154	0.148	0.154	0.151	0.152
UL	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

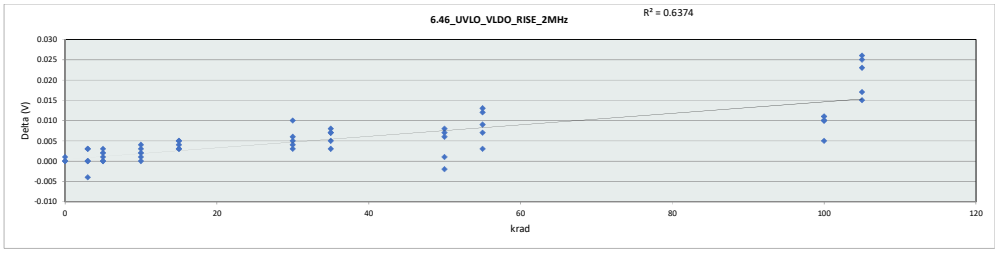


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

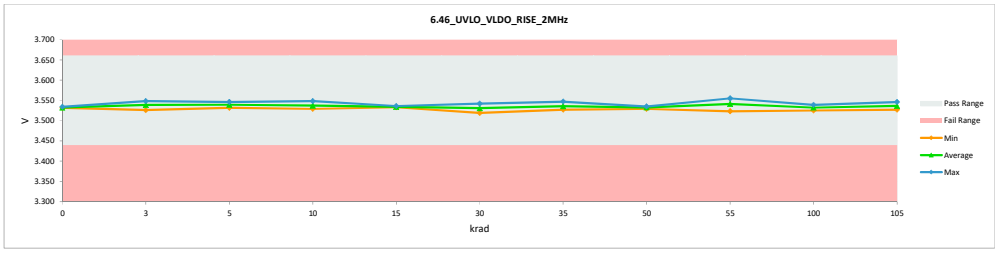
	6.46_UVLO_VLDO_RISE_2MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.532	3.532	0.000
0	69	3.532	3.532	0.000
0	70	3.533	3.534	0.001
3	1	3.526	3.526	0.000
3	2	3.540	3.543	0.003
3	3	3.543	3.539	-0.004
3	4	3.535	3.538	0.003
3	5	3.548	3.548	0.000
5	6	3.546	3.546	0.000
5	7	3.533	3.535	0.002
5	8	3.529	3.532	0.003
5	9	3.537	3.537	0.000
5	10	3.545	3.546	0.001
10	11	3.530	3.534	0.004
10	12	3.529	3.529	0.000
10	13	3.538	3.541	0.003
10	14	3.546	3.548	0.002
10	15	3.532	3.533	0.001
15	16	3.530	3.533	0.003
15	17	3.532	3.536	0.004
15	19	3.529	3.534	0.005
15	20	3.529	3.534	0.005
15	21	3.531	3.534	0.003
30	22	3.530	3.533	0.003
30	23	3.520	3.524	0.004
30	24	3.531	3.537	0.006
30	25	3.537	3.542	0.005
30	26	3.509	3.519	0.010
35	27	3.520	3.527	0.007
35	28	3.534	3.542	0.008
35	29	3.540	3.547	0.007
35	30	3.525	3.530	0.005
35	31	3.530	3.533	0.003
50	32	3.523	3.529	0.006
50	33	3.528	3.535	0.007
50	34	3.526	3.534	0.008
50	35	3.530	3.531	0.001
50	36	3.537	3.535	-0.002
55	37	3.537	3.550	0.013
55	38	3.520	3.527	0.007
55	39	3.514	3.523	0.009
55	40	3.549	3.552	0.003
55	41	3.543	3.555	0.012
100	42	3.519	3.529	0.010
100	43	3.534	3.539	0.005
100	44	3.515	3.525	0.010
100	45	3.525	3.536	0.011
100	46	3.522	3.532	0.010
105	47	3.509	3.532	0.023
105	48	3.512	3.538	0.026
105	49	3.531	3.546	0.015
105	50	3.514	3.539	0.025
105	51	3.510	3.527	0.017
Max		3.549	3.555	0.026
Average		3.530	3.536	0.006
Min		3.509	3.519	-0.004
Std Dev		0.010	0.008	0.006



	6.46_UVLO_VLDO_RISE_2MHz	
Test Site		
Tester		
Test Number		
Max Limit	3.66	V
Min Limit	3.44	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440	3.440
Min	3.532	3.526	3.532	3.529	3.533	3.519	3.527	3.529	3.523	3.525	3.527
Average	3.533	3.539	3.539	3.537	3.534	3.531	3.536	3.533	3.541	3.532	3.536
Max	3.534	3.548	3.546	3.548	3.536	3.542	3.547	3.535	3.555	3.539	3.546
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

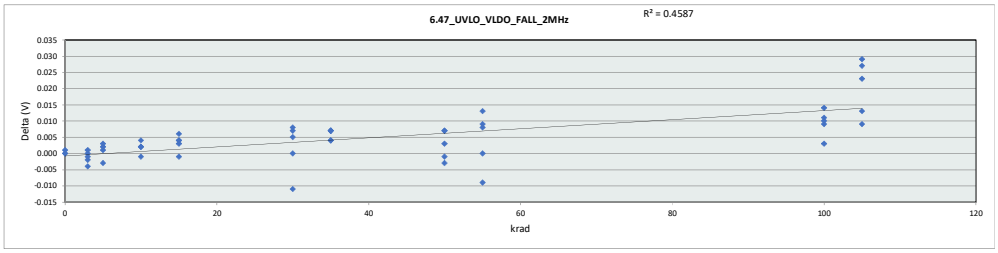


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

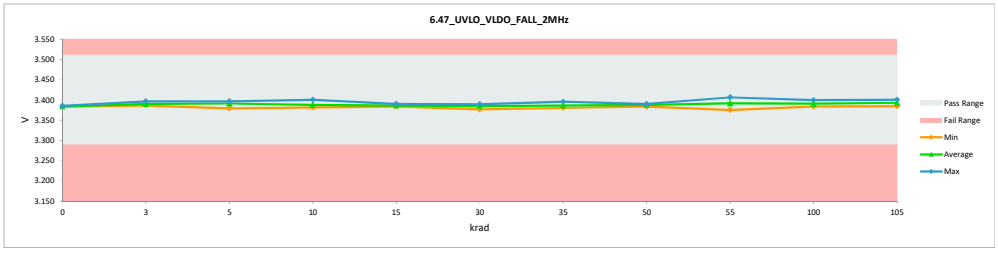
	6.47_UVLO_VLDO_FALL_2MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	3.383	3.383	0.000
0	69	3.382	3.383	0.001
0	70	3.385	3.385	0.000
3	1	3.389	3.387	-0.002
3	2	3.390	3.390	0.000
3	3	3.391	3.390	-0.001
3	4	3.385	3.386	0.001
3	5	3.400	3.396	-0.004
5	6	3.394	3.396	0.002
5	7	3.391	3.394	0.003
5	8	3.377	3.379	0.002
5	9	3.392	3.393	0.001
5	10	3.396	3.393	-0.003
10	11	3.383	3.382	-0.001
10	12	3.377	3.381	0.004
10	13	3.386	3.388	0.002
10	14	3.398	3.400	0.002
10	15	3.384	3.386	0.002
15	16	3.385	3.388	0.003
15	17	3.386	3.390	0.004
15	19	3.379	3.385	0.006
15	20	3.384	3.383	-0.001
15	21	3.380	3.384	0.004
30	22	3.381	3.386	0.005
30	23	3.368	3.376	0.008
30	24	3.384	3.384	0.000
30	25	3.399	3.388	-0.011
30	26	3.382	3.389	0.007
35	27	3.378	3.382	0.004
35	28	3.382	3.389	0.007
35	29	3.388	3.395	0.007
35	30	3.376	3.380	0.004
35	31	3.378	3.385	0.007
50	32	3.380	3.387	0.007
50	33	3.383	3.390	0.007
50	34	3.392	3.389	-0.003
50	35	3.384	3.383	-0.001
50	36	3.385	3.388	0.003
55	37	3.391	3.399	0.008
55	38	3.384	3.375	-0.009
55	39	3.368	3.377	0.009
55	40	3.400	3.400	0.000
55	41	3.393	3.406	0.013
100	42	3.373	3.383	0.010
100	43	3.386	3.389	0.003
100	44	3.377	3.386	0.009
100	45	3.380	3.394	0.014
100	46	3.388	3.399	0.011
105	47	3.375	3.384	0.009
105	48	3.365	3.388	0.023
105	49	3.380	3.393	0.013
105	50	3.371	3.400	0.029
105	51	3.371	3.398	0.027
Max		3.400	3.406	0.029
Average		3.384	3.388	0.005
Min		3.365	3.375	-0.011
Std Dev		0.008	0.007	0.007



	6.47_UVLO_VLDO_FALL_2MHz	
Test Site		
Tester		
Test Number		
Max Limit	3.51	V
Min Limit	3.29	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290
Min	3.383	3.386	3.379	3.381	3.383	3.376	3.380	3.383	3.375	3.383	3.384
Average	3.384	3.390	3.391	3.387	3.386	3.385	3.386	3.387	3.391	3.390	3.393
Max	3.385	3.396	3.396	3.400	3.390	3.389	3.395	3.390	3.406	3.399	3.400
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

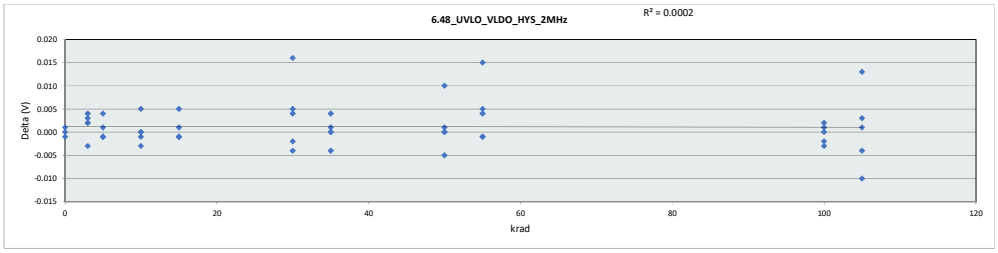


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

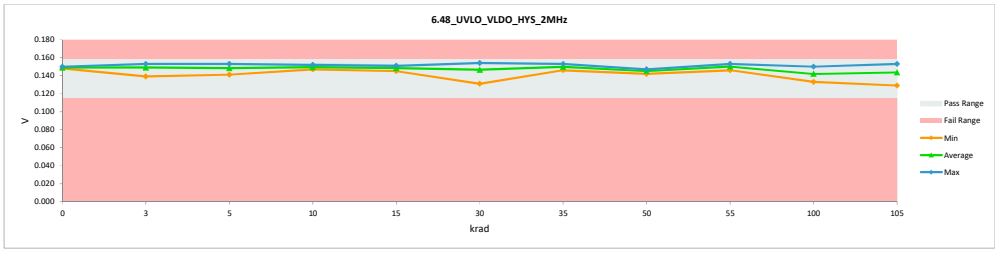
	6.48_UVLO_VLDO_HYS_2MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.16	0.158
Min Limit	0.115	0.115

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.149	0.148	-0.001
0	69	0.150	0.150	0.000
0	70	0.148	0.149	0.001
3	1	0.137	0.139	0.002
3	2	0.150	0.153	0.003
3	3	0.152	0.149	-0.003
3	4	0.150	0.152	0.002
3	5	0.148	0.152	0.004
5	6	0.152	0.151	-0.001
5	7	0.142	0.141	-0.001
5	8	0.152	0.153	0.001
5	9	0.145	0.144	-0.001
5	10	0.149	0.153	0.004
10	11	0.147	0.152	0.005
10	12	0.151	0.148	-0.003
10	13	0.152	0.152	0.000
10	14	0.148	0.148	0.000
10	15	0.148	0.147	-0.001
15	16	0.146	0.145	-0.001
15	17	0.146	0.147	0.001
15	19	0.150	0.149	-0.001
15	20	0.146	0.151	0.005
15	21	0.151	0.150	-0.001
30	22	0.149	0.147	-0.002
30	23	0.152	0.148	-0.004
30	24	0.148	0.153	0.005
30	25	0.138	0.154	0.016
30	26	0.127	0.131	0.004
35	27	0.142	0.146	0.004
35	28	0.152	0.153	0.001
35	29	0.152	0.152	0.000
35	30	0.150	0.150	0.000
35	31	0.152	0.148	-0.004
50	32	0.142	0.142	0.000
50	33	0.145	0.145	0.000
50	34	0.134	0.144	0.010
50	35	0.146	0.147	0.001
50	36	0.152	0.147	-0.005
55	37	0.146	0.151	0.005
55	38	0.136	0.151	0.015
55	39	0.147	0.146	-0.001
55	40	0.149	0.153	0.004
55	41	0.150	0.149	-0.001
100	42	0.147	0.145	-0.002
100	43	0.148	0.150	0.002
100	44	0.138	0.139	0.001
100	45	0.145	0.142	-0.003
100	46	0.133	0.133	0.000
105	47	0.134	0.147	0.013
105	48	0.147	0.150	0.003
105	49	0.152	0.153	0.001
105	50	0.143	0.139	-0.004
105	51	0.139	0.129	-0.010
	Max	0.152	0.154	0.016
	Average	0.146	0.147	0.001
	Min	0.127	0.129	-0.010
	Std Dev	0.006	0.006	0.005



	6.48_UVLO_VLDO_HYS_2MHz	
Test Site		
Tester		
Test Number		
Max Limit	0.158	V
Min Limit	0.115	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Min	0.148	0.139	0.141	0.147	0.145	0.131	0.146	0.142	0.146	0.133	0.129
Average	0.149	0.149	0.148	0.149	0.148	0.147	0.150	0.145	0.150	0.142	0.144
Max	0.150	0.153	0.153	0.152	0.151	0.154	0.153	0.147	0.153	0.150	0.153
UL	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

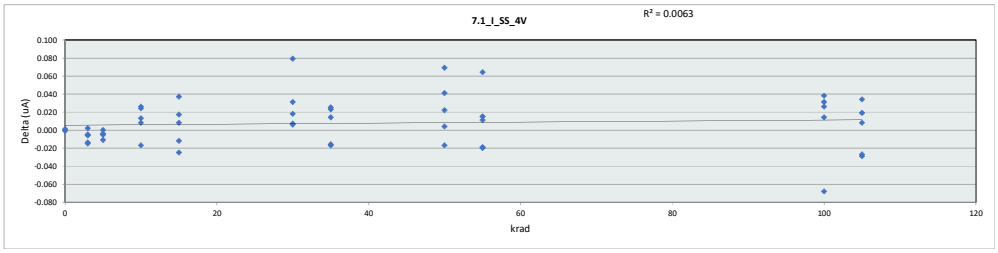


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

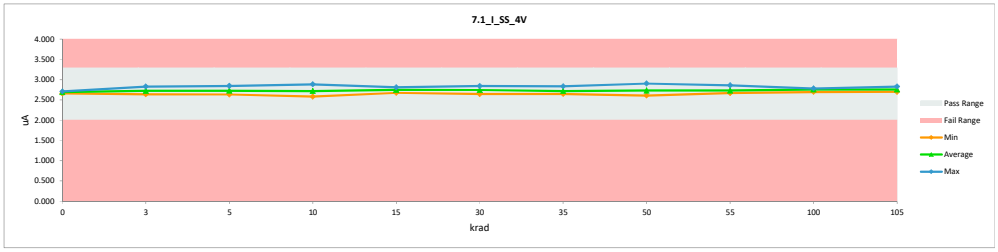
	7.1_I_SS_4V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	3.32	3.29
Min Limit	1.98	2.01

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2.709	2.708	-0.001
0	69	2.660	2.660	0.000
0	70	2.707	2.708	0.001
3	1	2.654	2.639	-0.015
3	2	2.660	2.662	0.002
3	3	2.801	2.795	-0.006
3	4	2.709	2.704	-0.005
3	5	2.842	2.828	-0.014
5	6	2.701	2.696	-0.005
5	7	2.660	2.656	-0.004
5	8	2.810	2.810	0.000
5	9	2.646	2.635	-0.011
5	10	2.850	2.845	-0.005
10	11	2.719	2.743	0.024
10	12	2.875	2.883	0.008
10	13	2.598	2.581	-0.017
10	14	2.732	2.758	0.026
10	15	2.623	2.636	0.013
15	16	2.782	2.799	0.017
15	17	2.747	2.735	-0.012
15	19	2.800	2.808	0.008
15	20	2.758	2.733	-0.025
15	21	2.635	2.672	0.037
30	22	2.758	2.764	0.006
30	23	2.769	2.776	0.007
30	24	2.673	2.691	0.018
30	25	2.565	2.644	0.079
30	26	2.812	2.843	0.031
35	27	2.770	2.784	0.014
35	28	2.811	2.834	0.023
35	29	2.665	2.648	-0.017
35	30	2.661	2.686	0.025
35	31	2.663	2.647	-0.016
50	32	2.834	2.903	0.069
50	33	2.584	2.625	0.041
50	34	2.684	2.667	-0.017
50	35	2.843	2.865	0.022
50	36	2.603	2.607	0.004
55	37	2.744	2.725	-0.019
55	38	2.747	2.727	-0.020
55	39	2.654	2.669	0.015
55	40	2.665	2.676	0.011
55	41	2.793	2.857	0.064
100	42	2.760	2.774	0.014
100	43	2.754	2.780	0.026
100	44	2.753	2.784	0.031
100	45	2.815	2.747	-0.068
100	46	2.659	2.697	0.038
105	47	2.757	2.728	-0.029
105	48	2.807	2.780	-0.027
105	49	2.667	2.701	0.034
105	50	2.750	2.758	0.008
105	51	2.810	2.829	0.019
Max		2.875	2.903	0.079
Average		2.727	2.734	0.008
Min		2.565	2.581	-0.068
Std Dev		0.077	0.078	0.026



	7.1_I_SS_4V	
Test Site		
Tester		
Test Number		
Max Limit	3.29	uA
Min Limit	2.01	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010
Min	2.660	2.639	2.635	2.581	2.672	2.644	2.647	2.607	2.669	2.697	2.701
Average	2.692	2.726	2.728	2.720	2.749	2.744	2.720	2.733	2.731	2.756	2.759
Max	2.708	2.828	2.845	2.883	2.808	2.843	2.834	2.903	2.857	2.784	2.829
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

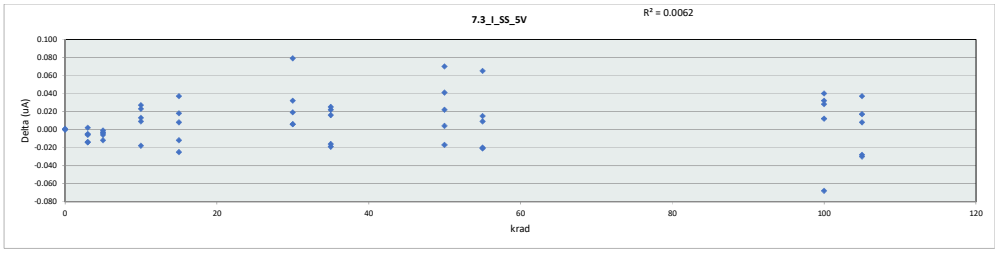


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

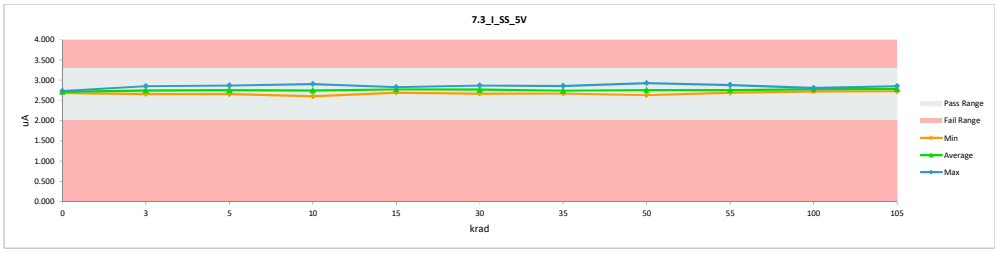
	7.3_I_SS_5V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	3.32	3.29
Min Limit	1.98	2.01

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2.732	2.732	0.000
0	69	2.681	2.681	0.000
0	70	2.729	2.730	0.001
3	1	2.674	2.660	-0.014
3	2	2.681	2.683	0.002
3	3	2.823	2.818	-0.005
3	4	2.730	2.724	-0.006
3	5	2.865	2.851	-0.014
5	6	2.721	2.718	-0.003
5	7	2.682	2.678	-0.004
5	8	2.834	2.833	-0.001
5	9	2.667	2.655	-0.012
5	10	2.873	2.867	-0.006
10	11	2.741	2.764	0.023
10	12	2.897	2.906	0.009
10	13	2.619	2.601	-0.018
10	14	2.754	2.781	0.027
10	15	2.644	2.657	0.013
15	16	2.804	2.822	0.018
15	17	2.768	2.756	-0.012
15	19	2.821	2.829	0.008
15	20	2.780	2.755	-0.025
15	21	2.656	2.693	0.037
30	22	2.780	2.786	0.006
30	23	2.792	2.798	0.006
30	24	2.694	2.713	0.019
30	25	2.588	2.667	0.079
30	26	2.835	2.867	0.032
35	27	2.791	2.807	0.016
35	28	2.835	2.857	0.022
35	29	2.687	2.668	-0.019
35	30	2.683	2.708	0.025
35	31	2.684	2.668	-0.016
50	32	2.856	2.926	0.070
50	33	2.605	2.646	0.041
50	34	2.704	2.687	-0.017
50	35	2.865	2.887	0.022
50	36	2.625	2.629	0.004
55	37	2.768	2.748	-0.020
55	38	2.770	2.749	-0.021
55	39	2.675	2.690	0.015
55	40	2.687	2.696	0.009
55	41	2.815	2.880	0.065
100	42	2.785	2.797	0.012
100	43	2.775	2.803	0.028
100	44	2.776	2.808	0.032
100	45	2.836	2.768	-0.068
100	46	2.679	2.719	0.040
105	47	2.779	2.749	-0.030
105	48	2.831	2.803	-0.028
105	49	2.687	2.724	0.037
105	50	2.772	2.780	0.008
105	51	2.833	2.850	0.017
Max		2.897	2.926	0.079
Average		2.748	2.756	0.008
Min		2.588	2.601	-0.068
Std Dev		0.077	0.079	0.026



	7.3_I_SS_5V	
Test Site		
Tester		
Test Number		
Max Limit	3.29	uA
Min Limit	2.01	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010
Min	2.681	2.660	2.655	2.601	2.693	2.667	2.668	2.629	2.690	2.719	2.724
Average	2.714	2.747	2.750	2.742	2.771	2.766	2.742	2.755	2.753	2.779	2.781
Max	2.732	2.851	2.867	2.906	2.829	2.867	2.857	2.926	2.880	2.808	2.850
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

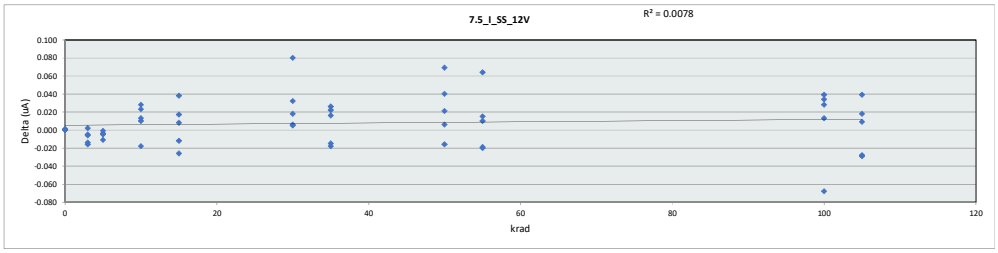


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

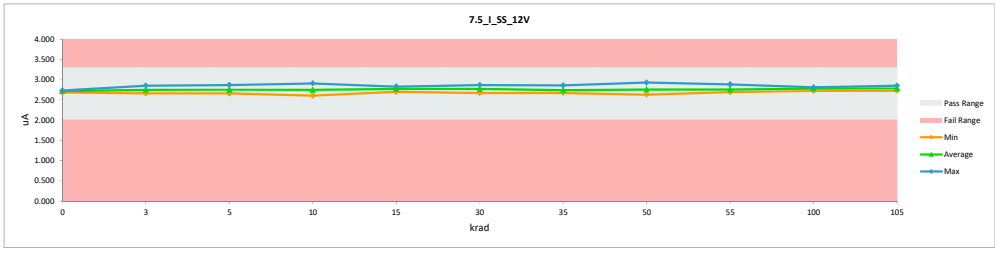
	7.5_I_SS_12V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	3.32	3.29
Min Limit	1.98	2.01

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2.732	2.732	0.000
0	69	2.681	2.681	0.000
0	70	2.728	2.729	0.001
3	1	2.675	2.659	-0.016
3	2	2.681	2.683	0.002
3	3	2.823	2.818	-0.005
3	4	2.730	2.724	-0.006
3	5	2.865	2.851	-0.014
5	6	2.721	2.717	-0.004
5	7	2.683	2.679	-0.004
5	8	2.834	2.833	-0.001
5	9	2.667	2.656	-0.011
5	10	2.873	2.868	-0.005
10	11	2.741	2.764	0.023
10	12	2.896	2.906	0.010
10	13	2.619	2.601	-0.018
10	14	2.754	2.782	0.028
10	15	2.644	2.657	0.013
15	16	2.804	2.821	0.017
15	17	2.768	2.756	-0.012
15	19	2.821	2.829	0.008
15	20	2.781	2.755	-0.026
15	21	2.656	2.694	0.038
30	22	2.780	2.786	0.006
30	23	2.792	2.797	0.005
30	24	2.695	2.713	0.018
30	25	2.587	2.667	0.080
30	26	2.834	2.866	0.032
35	27	2.791	2.807	0.016
35	28	2.835	2.857	0.022
35	29	2.686	2.668	-0.018
35	30	2.682	2.708	0.026
35	31	2.684	2.669	-0.015
50	32	2.856	2.925	0.069
50	33	2.607	2.647	0.040
50	34	2.704	2.688	-0.016
50	35	2.866	2.887	0.021
50	36	2.623	2.629	0.006
55	37	2.768	2.749	-0.019
55	38	2.769	2.749	-0.020
55	39	2.674	2.689	0.015
55	40	2.686	2.696	0.010
55	41	2.816	2.880	0.064
100	42	2.785	2.798	0.013
100	43	2.775	2.803	0.028
100	44	2.774	2.808	0.034
100	45	2.836	2.768	-0.068
100	46	2.679	2.718	0.039
105	47	2.778	2.749	-0.029
105	48	2.831	2.803	-0.028
105	49	2.686	2.725	0.039
105	50	2.772	2.781	0.009
105	51	2.831	2.849	0.018
Max		2.896	2.925	0.080
Average		2.748	2.756	0.008
Min		2.587	2.601	-0.068
Std Dev		0.077	0.078	0.026



	7.5_I_SS_12V	
Test Site		
Tester		
Test Number		
Max Limit	3.29	uA
Min Limit	2.01	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010
Min	2.681	2.659	2.656	2.601	2.694	2.667	2.668	2.629	2.689	2.718	2.725
Average	2.714	2.747	2.751	2.742	2.771	2.766	2.742	2.755	2.753	2.779	2.781
Max	2.732	2.851	2.868	2.906	2.829	2.866	2.857	2.925	2.880	2.808	2.849
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

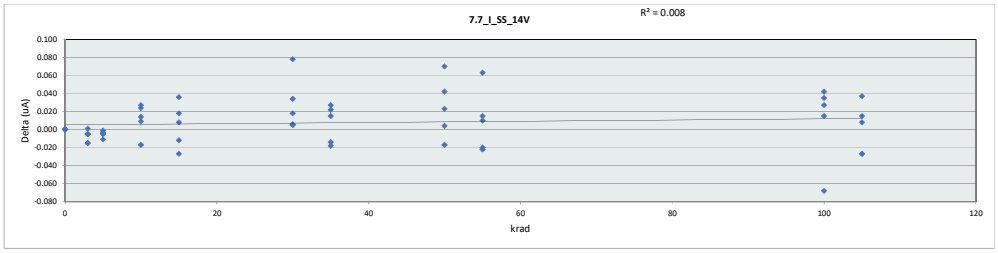


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

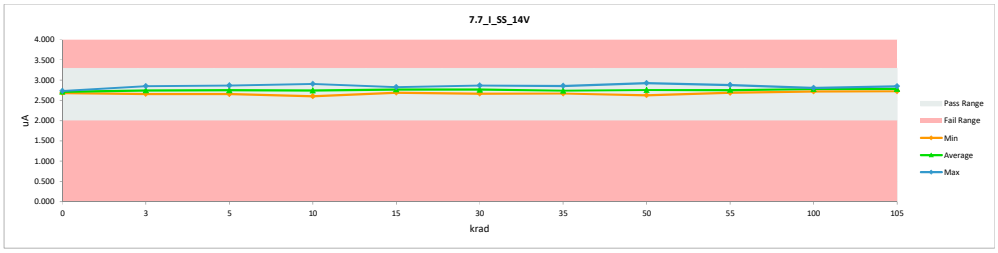
	7.7_I_SS_14V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	3.32	3.29
Min Limit	1.98	2.01

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2.732	2.732	0.000
0	69	2.681	2.681	0.000
0	70	2.728	2.729	0.001
3	1	2.675	2.660	-0.015
3	2	2.682	2.683	0.001
3	3	2.823	2.818	-0.005
3	4	2.730	2.725	-0.005
3	5	2.866	2.851	-0.015
5	6	2.721	2.718	-0.003
5	7	2.682	2.678	-0.004
5	8	2.834	2.833	-0.001
5	9	2.666	2.655	-0.011
5	10	2.873	2.868	-0.005
10	11	2.740	2.764	0.024
10	12	2.896	2.905	0.009
10	13	2.619	2.602	-0.017
10	14	2.755	2.782	0.027
10	15	2.644	2.658	0.014
15	16	2.804	2.822	0.018
15	17	2.769	2.757	-0.012
15	19	2.821	2.829	0.008
15	20	2.781	2.754	-0.027
15	21	2.657	2.693	0.036
30	22	2.780	2.786	0.006
30	23	2.792	2.797	0.005
30	24	2.696	2.714	0.018
30	25	2.588	2.666	0.078
30	26	2.833	2.867	0.034
35	27	2.791	2.806	0.015
35	28	2.834	2.856	0.022
35	29	2.686	2.668	-0.018
35	30	2.682	2.709	0.027
35	31	2.683	2.669	-0.014
50	32	2.856	2.926	0.070
50	33	2.606	2.648	0.042
50	34	2.704	2.687	-0.017
50	35	2.865	2.888	0.023
50	36	2.624	2.628	0.004
55	37	2.768	2.748	-0.020
55	38	2.771	2.749	-0.022
55	39	2.675	2.690	0.015
55	40	2.686	2.696	0.010
55	41	2.816	2.879	0.063
100	42	2.783	2.798	0.015
100	43	2.776	2.803	0.027
100	44	2.774	2.809	0.035
100	45	2.837	2.769	-0.068
100	46	2.677	2.719	0.042
105	47	2.777	2.750	-0.027
105	48	2.831	2.804	-0.027
105	49	2.687	2.724	0.037
105	50	2.772	2.780	0.008
105	51	2.833	2.848	0.015
Max		2.896	2.926	0.078
Average		2.748	2.756	0.008
Min		2.588	2.602	-0.068
Std Dev		0.077	0.078	0.026



	7.7_I_SS_14V	
Test Site		
Tester		
Test Number		
Max Limit	3.29	uA
Min Limit	2.01	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010
Min	2.681	2.660	2.655	2.602	2.693	2.666	2.668	2.628	2.690	2.719	2.724
Average	2.714	2.747	2.750	2.742	2.771	2.766	2.742	2.755	2.752	2.780	2.781
Max	2.732	2.851	2.868	2.905	2.829	2.867	2.856	2.926	2.879	2.809	2.848
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

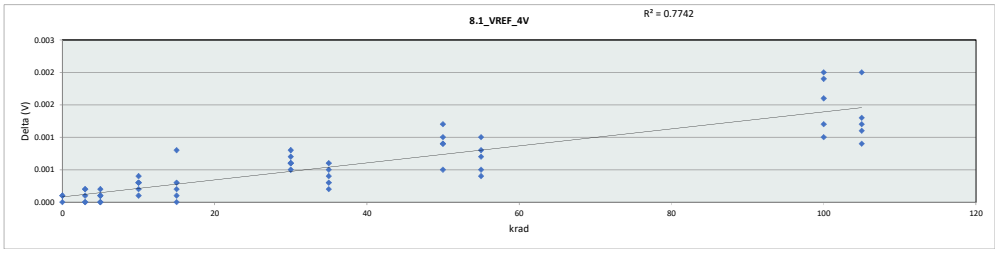


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

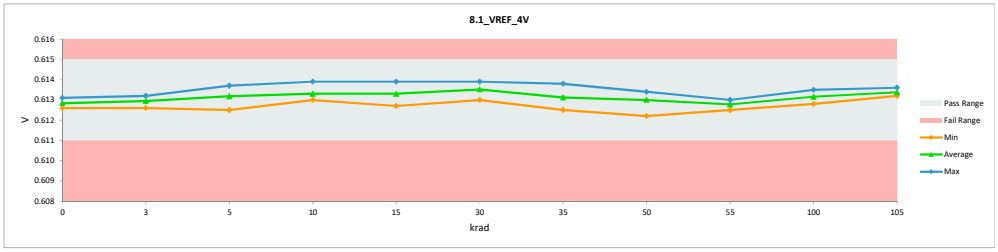
	8.1_VREF_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.615	0.615
Min Limit	0.609	0.611

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.613	0.613	0.000
0	69	0.613	0.613	0.000
0	70	0.613	0.613	0.000
3	1	0.613	0.613	0.000
3	2	0.613	0.613	0.000
3	3	0.613	0.613	0.000
3	4	0.612	0.613	0.000
3	5	0.613	0.613	0.000
5	6	0.613	0.613	0.000
5	7	0.613	0.613	0.000
5	8	0.614	0.614	0.000
5	9	0.613	0.613	0.000
5	10	0.613	0.613	0.000
10	11	0.613	0.613	0.000
10	12	0.613	0.613	0.000
10	13	0.613	0.613	0.000
10	14	0.614	0.614	0.000
10	15	0.613	0.613	0.000
15	16	0.613	0.614	0.000
15	17	0.613	0.613	0.000
15	19	0.613	0.613	0.000
15	20	0.613	0.614	0.001
15	21	0.613	0.613	0.000
30	22	0.613	0.613	0.001
30	23	0.613	0.613	0.001
30	24	0.612	0.613	0.001
30	25	0.613	0.614	0.001
30	26	0.613	0.614	0.001
35	27	0.613	0.613	0.000
35	28	0.613	0.613	0.000
35	29	0.613	0.614	0.000
35	30	0.612	0.613	0.001
35	31	0.612	0.613	0.001
50	32	0.612	0.613	0.001
50	33	0.612	0.613	0.001
50	34	0.611	0.612	0.001
50	35	0.613	0.613	0.001
50	36	0.612	0.613	0.001
55	37	0.612	0.613	0.001
55	38	0.612	0.613	0.000
55	39	0.612	0.613	0.001
55	40	0.613	0.613	0.000
55	41	0.612	0.613	0.001
100	42	0.612	0.613	0.001
100	43	0.612	0.613	0.002
100	44	0.611	0.613	0.002
100	45	0.612	0.613	0.001
100	46	0.611	0.613	0.002
105	47	0.612	0.613	0.001
105	48	0.612	0.613	0.001
105	49	0.612	0.614	0.002
105	50	0.612	0.613	0.001
105	51	0.613	0.614	0.001
Max		0.614	0.614	0.002
Average		0.613	0.613	0.001
Min		0.611	0.612	0.000
Std Dev		0.001	0.000	0.001



	8.1_VREF_4V		
Test Site			
Tester			
Test Number			
Max Limit	0.615	V	
Min Limit	0.611	V	

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.612	0.613	0.613	0.613
Average	0.613	0.613	0.613	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.613
Max	0.613	0.613	0.614	0.614	0.614	0.614	0.614	0.613	0.613	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

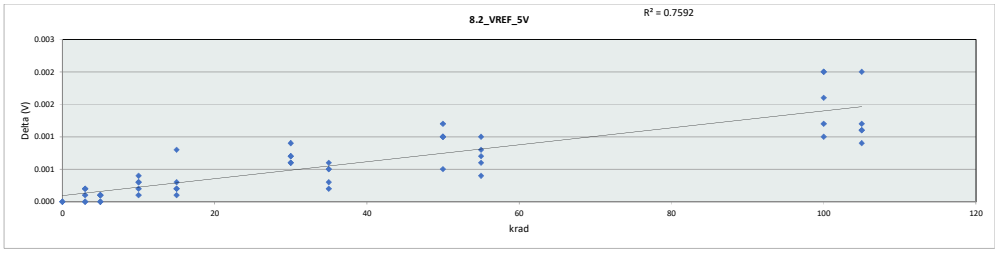


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

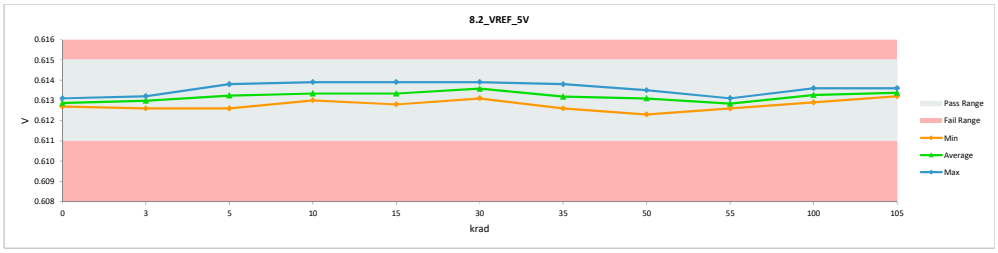
	8.2_VREF_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.615	0.615
Min Limit	0.609	0.611

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.613	0.613	0.000
0	69	0.613	0.613	0.000
0	70	0.613	0.613	0.000
3	1	0.613	0.613	0.000
3	2	0.613	0.613	0.000
3	3	0.613	0.613	0.000
3	4	0.612	0.613	0.000
3	5	0.613	0.613	0.000
5	6	0.613	0.613	0.000
5	7	0.613	0.613	0.000
5	8	0.614	0.614	0.000
5	9	0.613	0.613	0.000
5	10	0.613	0.613	0.000
10	11	0.613	0.613	0.000
10	12	0.613	0.613	0.000
10	13	0.613	0.613	0.000
10	14	0.614	0.614	0.000
10	15	0.613	0.613	0.000
15	16	0.613	0.614	0.000
15	17	0.613	0.613	0.000
15	19	0.613	0.613	0.000
15	20	0.613	0.614	0.001
15	21	0.613	0.613	0.000
30	22	0.613	0.613	0.001
30	23	0.613	0.614	0.001
30	24	0.612	0.613	0.001
30	25	0.613	0.614	0.001
30	26	0.613	0.614	0.001
35	27	0.613	0.613	0.000
35	28	0.613	0.613	0.000
35	29	0.613	0.614	0.000
35	30	0.612	0.613	0.001
35	31	0.613	0.613	0.001
50	32	0.612	0.613	0.001
50	33	0.613	0.613	0.000
50	34	0.611	0.612	0.001
50	35	0.613	0.613	0.001
50	36	0.612	0.613	0.001
55	37	0.612	0.613	0.001
55	38	0.612	0.613	0.001
55	39	0.612	0.613	0.001
55	40	0.613	0.613	0.000
55	41	0.612	0.613	0.001
100	42	0.612	0.613	0.001
100	43	0.612	0.614	0.002
100	44	0.611	0.613	0.002
100	45	0.612	0.613	0.001
100	46	0.611	0.613	0.002
105	47	0.612	0.613	0.001
105	48	0.612	0.613	0.001
105	49	0.612	0.614	0.002
105	50	0.612	0.613	0.001
105	51	0.613	0.614	0.001
Max		0.614	0.614	0.002
Average		0.613	0.613	0.001
Min		0.611	0.612	0.000
Std Dev		0.001	0.000	0.001



	8.2_VREF_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.615	V
Min Limit	0.611	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.612	0.613	0.613	0.613
Average	0.613	0.613	0.613	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.613
Max	0.613	0.613	0.614	0.614	0.614	0.614	0.614	0.614	0.613	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

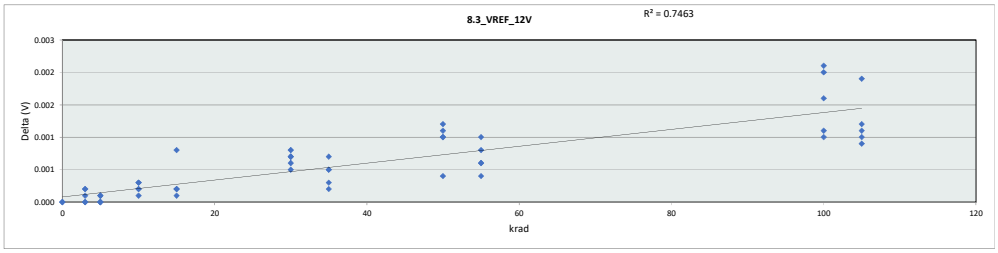


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

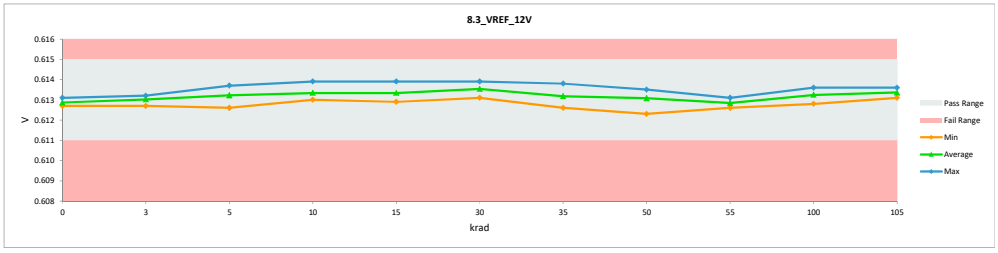
	8.3_VREF_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.615	0.615
Min Limit	0.609	0.611

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.613	0.613	0.000
0	69	0.613	0.613	0.000
0	70	0.613	0.613	0.000
3	1	0.613	0.613	0.000
3	2	0.613	0.613	0.000
3	3	0.613	0.613	0.000
3	4	0.613	0.613	0.000
3	5	0.613	0.613	0.000
5	6	0.613	0.613	0.000
5	7	0.613	0.613	0.000
5	8	0.614	0.614	0.000
5	9	0.613	0.613	0.000
5	10	0.613	0.613	0.000
10	11	0.613	0.613	0.000
10	12	0.613	0.613	0.000
10	13	0.613	0.613	0.000
10	14	0.614	0.614	0.000
10	15	0.613	0.613	0.000
15	16	0.613	0.614	0.000
15	17	0.613	0.613	0.000
15	19	0.613	0.613	0.000
15	20	0.613	0.614	0.001
15	21	0.613	0.613	0.000
30	22	0.613	0.613	0.001
30	23	0.613	0.613	0.001
30	24	0.612	0.613	0.001
30	25	0.613	0.614	0.001
30	26	0.613	0.614	0.001
35	27	0.613	0.613	0.000
35	28	0.613	0.613	0.000
35	29	0.613	0.614	0.000
35	30	0.612	0.613	0.001
35	31	0.612	0.613	0.001
50	32	0.612	0.613	0.001
50	33	0.613	0.613	0.000
50	34	0.611	0.612	0.001
50	35	0.613	0.613	0.001
50	36	0.612	0.613	0.001
55	37	0.612	0.613	0.001
55	38	0.612	0.613	0.001
55	39	0.612	0.613	0.001
55	40	0.613	0.613	0.000
55	41	0.612	0.613	0.001
100	42	0.612	0.613	0.001
100	43	0.612	0.614	0.002
100	44	0.611	0.613	0.002
100	45	0.612	0.613	0.001
100	46	0.611	0.613	0.002
105	47	0.612	0.613	0.001
105	48	0.612	0.613	0.001
105	49	0.612	0.614	0.002
105	50	0.612	0.613	0.001
105	51	0.613	0.614	0.001
	Max	0.614	0.614	0.002
	Average	0.613	0.613	0.001
	Min	0.611	0.612	0.000
	Std Dev	0.001	0.000	0.001



	8.3_VREF_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.615	V
Min Limit	0.611	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.612	0.613	0.613	0.613
Average	0.613	0.613	0.613	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.613
Max	0.613	0.613	0.614	0.614	0.614	0.614	0.614	0.614	0.613	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

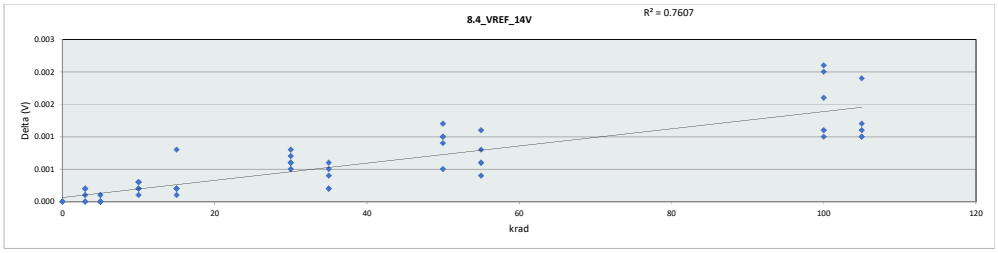


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

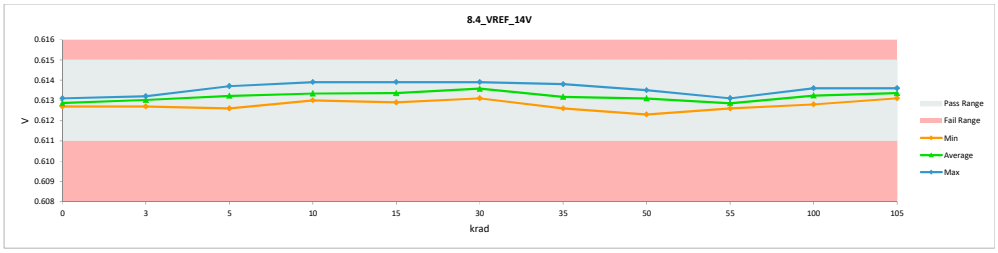
	8.4_VREF_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.615	0.615
Min Limit	0.609	0.611

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.613	0.613	0.000
0	69	0.613	0.613	0.000
0	70	0.613	0.613	0.000
3	1	0.613	0.613	0.000
3	2	0.613	0.613	0.000
3	3	0.613	0.613	0.000
3	4	0.613	0.613	0.000
3	5	0.613	0.613	0.000
5	6	0.613	0.613	0.000
5	7	0.613	0.613	0.000
5	8	0.614	0.614	0.000
5	9	0.613	0.613	0.000
5	10	0.613	0.613	0.000
10	11	0.613	0.613	0.000
10	12	0.613	0.613	0.000
10	13	0.613	0.613	0.000
10	14	0.614	0.614	0.000
10	15	0.613	0.613	0.000
15	16	0.613	0.614	0.000
15	17	0.613	0.613	0.000
15	19	0.613	0.613	0.000
15	20	0.613	0.614	0.001
15	21	0.613	0.613	0.000
30	22	0.613	0.613	0.001
30	23	0.613	0.614	0.001
30	24	0.612	0.613	0.001
30	25	0.613	0.614	0.001
30	26	0.613	0.614	0.001
35	27	0.613	0.613	0.000
35	28	0.613	0.613	0.000
35	29	0.614	0.614	0.000
35	30	0.612	0.613	0.001
35	31	0.613	0.613	0.001
50	32	0.612	0.613	0.001
50	33	0.613	0.613	0.000
50	34	0.611	0.612	0.001
50	35	0.613	0.613	0.001
50	36	0.613	0.613	0.001
55	37	0.612	0.613	0.001
55	38	0.612	0.613	0.001
55	39	0.612	0.613	0.001
55	40	0.613	0.613	0.000
55	41	0.612	0.613	0.001
100	42	0.612	0.613	0.001
100	43	0.612	0.614	0.002
100	44	0.611	0.613	0.002
100	45	0.612	0.613	0.001
100	46	0.611	0.613	0.002
105	47	0.612	0.613	0.001
105	48	0.612	0.613	0.001
105	49	0.612	0.614	0.002
105	50	0.612	0.613	0.001
105	51	0.613	0.614	0.001
Max		0.614	0.614	0.002
Average		0.613	0.613	0.001
Min		0.611	0.612	0.000
Std Dev		0.001	0.000	0.001



	8.4_VREF_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.615	V
Min Limit	0.611	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611	0.611
Min	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.612	0.613	0.613	0.613
Average	0.613	0.613	0.613	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.613
Max	0.613	0.613	0.614	0.614	0.614	0.614	0.614	0.614	0.613	0.614	0.614
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

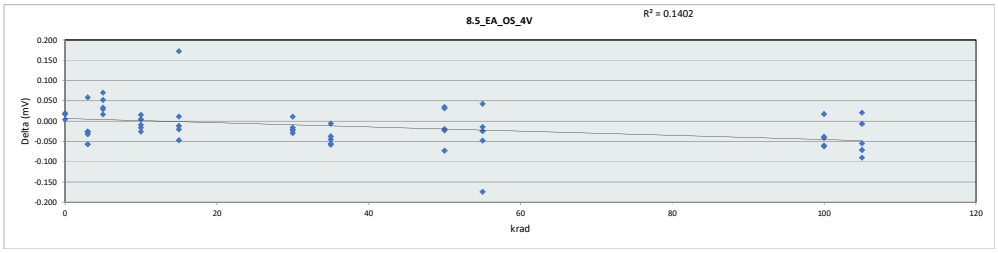


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

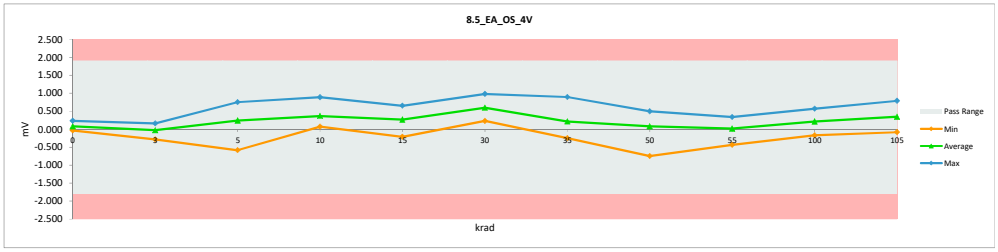
	8.5_EA_OS_4V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	2	1.9
Min Limit	-2	-1.8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.218	0.235	0.017
0	69	0.016	0.036	0.019
0	70	-0.038	-0.034	0.004
3	1	0.219	0.161	-0.057
3	2	0.059	0.032	-0.027
3	3	-0.005	-0.038	-0.032
3	4	0.011	-0.015	-0.026
3	5	-0.344	-0.285	0.058
5	6	0.680	0.750	0.070
5	7	-0.044	-0.015	0.029
5	8	0.486	0.538	0.052
5	9	0.503	0.519	0.016
5	10	-0.618	-0.585	0.033
10	11	0.055	0.070	0.015
10	12	0.445	0.418	-0.026
10	13	0.249	0.240	-0.010
10	14	0.880	0.885	0.004
10	15	0.240	0.223	-0.017
15	16	0.453	0.464	0.011
15	17	-0.199	-0.211	-0.012
15	19	-0.012	-0.059	-0.048
15	20	0.480	0.652	0.172
15	21	0.511	0.490	-0.021
30	22	0.523	0.502	-0.021
30	23	0.525	0.509	-0.016
30	24	0.218	0.229	0.010
30	25	0.796	0.767	-0.030
30	26	1.004	0.981	-0.023
35	27	-0.095	-0.151	-0.056
35	28	0.568	0.561	-0.006
35	29	0.932	0.894	-0.038
35	30	-0.208	-0.253	-0.045
35	31	0.076	0.018	-0.058
50	32	0.354	0.385	0.031
50	33	-0.024	-0.044	-0.020
50	34	-0.782	-0.748	0.035
50	35	0.570	0.497	-0.073
50	36	0.327	0.303	-0.023
55	37	0.210	0.162	-0.048
55	38	-0.260	-0.434	-0.174
55	39	0.355	0.340	-0.015
55	40	0.168	0.143	-0.025
55	41	-0.189	-0.147	0.042
100	42	0.343	0.282	-0.061
100	43	0.550	0.567	0.017
100	44	0.319	0.257	-0.062
100	45	-0.135	-0.174	-0.039
100	46	0.172	0.130	-0.042
105	47	0.177	0.105	-0.072
105	48	0.418	0.363	-0.056
105	49	0.794	0.787	-0.007
105	50	-0.104	-0.083	0.021
105	51	0.640	0.550	-0.090
	Max	1.004	0.981	0.172
	Average	0.236	0.222	-0.014
	Min	-0.782	-0.748	-0.174
	Std Dev	0.373	0.376	0.050



	8.5_EA_OS_4V	
Test Site		
Tester		
Test Number		
Max Limit	1.9	mV
Min Limit	-1.8	mV

krad	0	3	5	10	15	30	35	50	55	100	105
LL	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800
Min	-0.034	-0.286	-0.585	0.070	-0.211	0.229	-0.253	-0.748	-0.434	-0.174	-0.083
Average	0.079	-0.029	0.241	0.367	0.267	0.597	0.214	0.079	0.013	0.213	0.344
Max	0.235	0.161	0.750	0.885	0.652	0.981	0.894	0.497	0.340	0.568	0.787
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

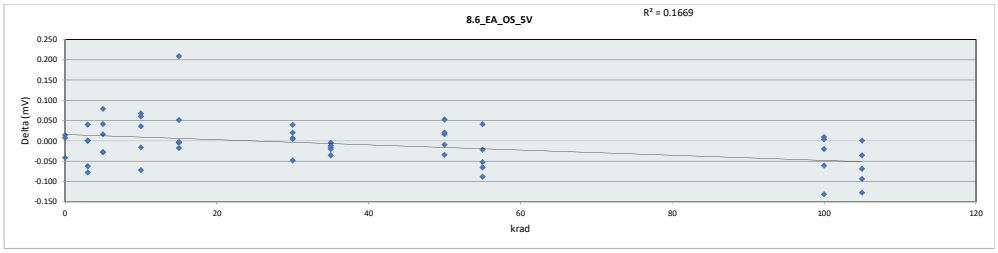


TID HDR Report
TPS7H5002-SP QMLP

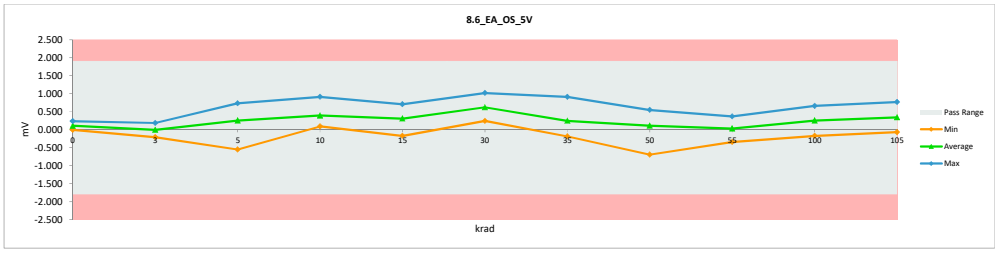
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	8.6_EA_OS_5V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	2	1.9
Min Limit	-2	-1.8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.275	0.233	-0.042
0	69	0.086	0.094	0.007
0	70	-0.019	-0.005	0.014
3	1	0.264	0.185	-0.078
3	2	0.098	0.035	-0.063
3	3	-0.034	-0.035	0.000
3	4	0.001	0.001	0.000
3	5	-0.249	-0.209	0.040
5	6	0.690	0.731	0.041
5	7	0.019	-0.009	-0.028
5	8	0.528	0.544	0.016
5	9	0.583	0.555	-0.028
5	10	-0.632	-0.553	0.079
10	11	0.023	0.090	0.067
10	12	0.480	0.408	-0.072
10	13	0.283	0.267	-0.016
10	14	0.878	0.913	0.035
10	15	0.214	0.274	0.060
15	16	0.431	0.482	0.051
15	17	-0.168	-0.172	-0.005
15	19	0.032	0.029	-0.003
15	20	0.496	0.705	0.208
15	21	0.522	0.504	-0.018
30	22	0.514	0.520	0.006
30	23	0.511	0.531	0.020
30	24	0.238	0.243	0.005
30	25	0.839	0.791	-0.048
30	26	0.981	1.020	0.039
35	27	-0.076	-0.081	-0.005
35	28	0.540	0.527	-0.012
35	29	0.947	0.911	-0.036
35	30	-0.173	-0.189	-0.016
35	31	0.089	0.069	-0.020
50	32	0.413	0.379	-0.034
50	33	-0.031	-0.041	-0.010
50	34	-0.749	-0.696	0.052
50	35	0.529	0.549	0.020
50	36	0.349	0.364	0.016
55	37	0.224	0.136	-0.089
55	38	-0.279	-0.344	-0.065
55	39	0.388	0.366	-0.022
55	40	0.204	0.151	-0.053
55	41	-0.195	-0.154	0.041
100	42	0.392	0.260	-0.132
100	43	0.655	0.658	0.004
100	44	0.365	0.345	-0.020
100	45	-0.111	-0.173	-0.061
100	46	0.163	0.172	0.009
105	47	0.220	0.092	-0.128
105	48	0.436	0.367	-0.069
105	49	0.767	0.767	0.000
105	50	-0.038	-0.073	-0.036
105	51	0.642	0.548	-0.094
	Max	0.981	1.020	0.208
	Average	0.256	0.247	-0.009
	Min	-0.749	-0.696	-0.132
	Std Dev	0.369	0.369	0.056



	8.6_EA_OS_5V										
Test Site											
Tester											
Test Number											
Max Limit	1.9	mV									
Min Limit	-1.8	mV									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800
Min	-0.005	-0.209	-0.553	0.090	-0.173	0.243	-0.189	-0.696	-0.344	-0.173	-0.073
Average	0.107	-0.005	0.254	0.390	0.309	0.621	0.247	0.111	0.031	0.253	0.340
Max	0.233	0.185	0.731	0.913	0.705	1.020	0.911	0.549	0.366	0.658	0.767
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

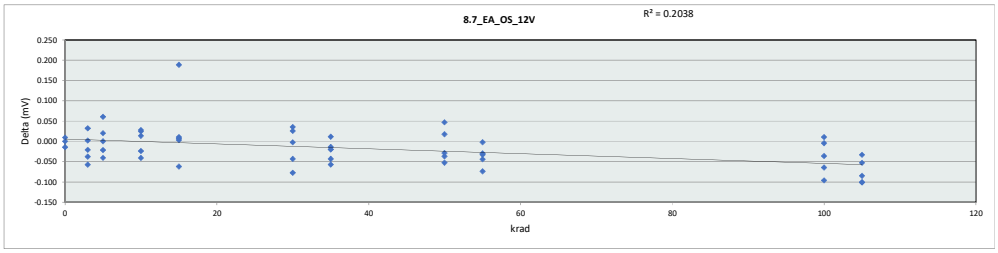


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

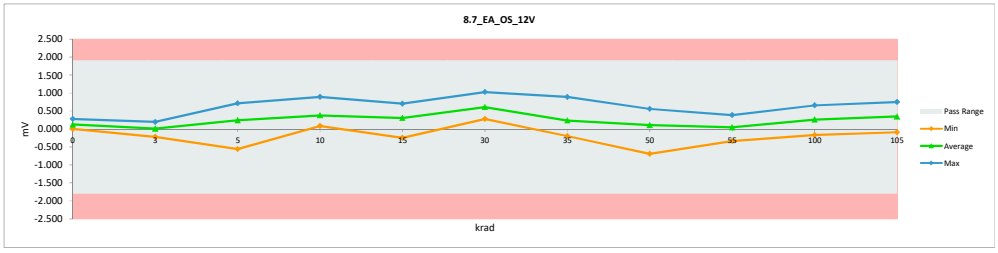
	8.7_EA_OS_12V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	2	1.9
Min Limit	-2	-1.8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.296	0.281	-0.015
0	69	0.090	0.090	0.000
0	70	-0.007	0.002	0.009
3	1	0.220	0.198	-0.021
3	2	0.095	0.097	0.002
3	3	0.029	-0.029	-0.058
3	4	0.042	0.004	-0.038
3	5	-0.252	-0.220	0.032
5	6	0.718	0.718	0.000
5	7	-0.001	-0.042	-0.041
5	8	0.516	0.536	0.020
5	9	0.574	0.553	-0.022
5	10	-0.617	-0.557	0.060
10	11	0.056	0.084	0.028
10	12	0.451	0.410	-0.041
10	13	0.293	0.269	-0.024
10	14	0.882	0.896	0.014
10	15	0.224	0.248	0.024
15	16	0.496	0.503	0.007
15	17	-0.181	-0.243	-0.062
15	19	0.054	0.064	0.010
15	20	0.518	0.707	0.188
15	21	0.503	0.506	0.003
30	22	0.517	0.515	-0.003
30	23	0.514	0.471	-0.044
30	24	0.255	0.281	0.025
30	25	0.828	0.750	-0.078
30	26	0.994	1.029	0.035
35	27	-0.061	-0.075	-0.014
35	28	0.572	0.515	-0.057
35	29	0.935	0.891	-0.044
35	30	-0.176	-0.196	-0.020
35	31	0.048	0.060	0.011
50	32	0.415	0.379	-0.037
50	33	-0.005	-0.058	-0.053
50	34	-0.736	-0.689	0.047
50	35	0.587	0.558	-0.029
50	36	0.355	0.372	0.017
55	37	0.189	0.156	-0.033
55	38	-0.259	-0.333	-0.074
55	39	0.389	0.387	-0.002
55	40	0.208	0.178	-0.030
55	41	-0.127	-0.172	-0.044
100	42	0.392	0.327	-0.065
100	43	0.663	0.658	-0.005
100	44	0.324	0.334	0.010
100	45	-0.072	-0.168	-0.096
100	46	0.205	0.169	-0.036
105	47	0.217	0.116	-0.101
105	48	0.446	0.393	-0.053
105	49	0.854	0.753	-0.101
105	50	-0.057	-0.091	-0.034
105	51	0.655	0.570	-0.085
Max		0.994	1.029	0.188
Average		0.266	0.248	-0.017
Min		-0.736	-0.689	-0.101
Std Dev		0.368	0.367	0.048



	8.7_EA_OS_12V	
Test Site		
Tester		
Test Number		
Max Limit	1.9	mV
Min Limit	-1.8	mV

krad	0	3	5	10	15	30	35	50	55	100	105
LL	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800
Min	0.002	-0.220	-0.557	0.084	-0.243	0.281	-0.196	-0.689	-0.333	-0.168	-0.091
Average	0.124	0.010	0.242	0.382	0.307	0.609	0.239	0.112	0.043	0.264	0.348
Max	0.281	0.198	0.718	0.896	0.707	1.029	0.891	0.558	0.387	0.658	0.753
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

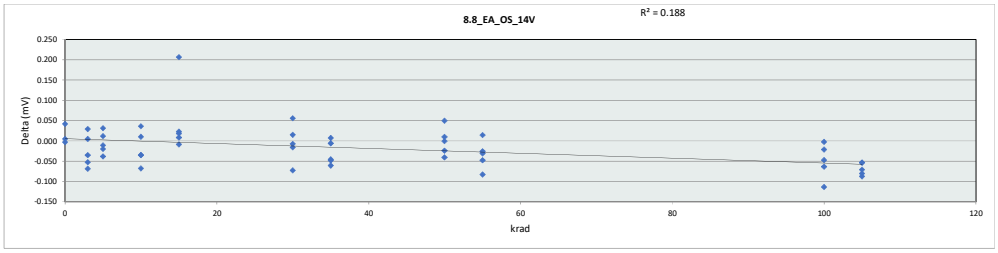


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

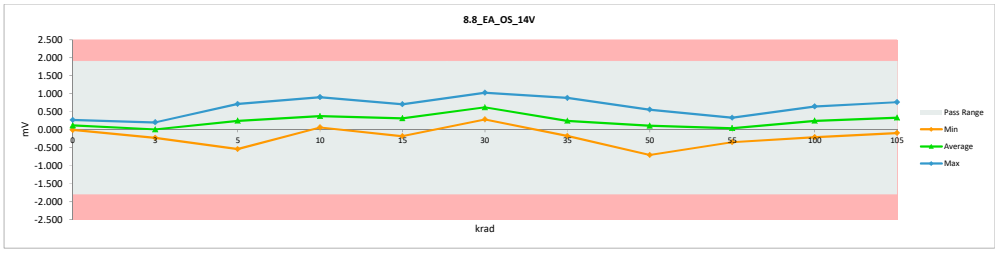
	8.8_EA_OS_14V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	2	1.9
Min Limit	-2	-1.8

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.272	0.268	-0.004
0	69	0.058	0.099	0.041
0	70	-0.013	-0.008	0.005
3	1	0.271	0.202	-0.069
3	2	0.092	0.096	0.004
3	3	0.017	-0.036	-0.053
3	4	0.034	-0.001	-0.035
3	5	-0.257	-0.228	0.029
5	6	0.722	0.711	-0.011
5	7	0.005	-0.015	-0.020
5	8	0.504	0.515	0.011
5	9	0.593	0.554	-0.039
5	10	-0.573	-0.542	0.031
10	11	0.095	0.060	-0.035
10	12	0.457	0.389	-0.068
10	13	0.267	0.277	0.010
10	14	0.868	0.904	0.035
10	15	0.292	0.257	-0.036
15	16	0.482	0.500	0.018
15	17	-0.171	-0.180	-0.009
15	19	0.037	0.059	0.022
15	20	0.501	0.707	0.206
15	21	0.489	0.497	0.008
30	22	0.517	0.500	-0.016
30	23	0.551	0.544	-0.008
30	24	0.228	0.283	0.055
30	25	0.822	0.749	-0.073
30	26	1.011	1.025	0.015
35	27	-0.028	-0.076	-0.048
35	28	0.566	0.520	-0.046
35	29	0.942	0.881	-0.061
35	30	-0.172	-0.179	-0.006
35	31	0.073	0.080	0.007
50	32	0.411	0.370	-0.041
50	33	-0.044	-0.035	0.009
50	34	-0.754	-0.705	0.049
50	35	0.581	0.556	-0.024
50	36	0.365	0.364	-0.001
55	37	0.198	0.212	0.014
55	38	-0.264	-0.347	-0.083
55	39	0.378	0.330	-0.048
55	40	0.204	0.173	-0.031
55	41	-0.131	-0.157	-0.026
100	42	0.368	0.304	-0.064
100	43	0.647	0.644	-0.003
100	44	0.347	0.325	-0.021
100	45	-0.095	-0.209	-0.114
100	46	0.212	0.164	-0.048
105	47	0.139	0.085	-0.054
105	48	0.438	0.350	-0.088
105	49	0.835	0.763	-0.072
105	50	-0.038	-0.093	-0.054
105	51	0.644	0.563	-0.081
Max		1.011	1.025	0.206
Average		0.264	0.247	-0.017
Min		-0.754	-0.705	-0.114
Std Dev		0.367	0.365	0.050



	8.8_EA_OS_14V	
Test Site		
Tester		
Test Number		
Max Limit	1.9	mV
Min Limit	-1.8	mV

krad	0	3	5	10	15	30	35	50	55	100	105
LL	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800	-1.800
Min	-0.008	-0.228	-0.542	0.060	-0.180	0.283	-0.179	-0.705	-0.347	-0.209	-0.093
Average	0.120	0.006	0.245	0.377	0.317	0.620	0.245	0.110	0.042	0.246	0.334
Max	0.268	0.202	0.711	0.904	0.707	1.025	0.881	0.556	0.330	0.644	0.763
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

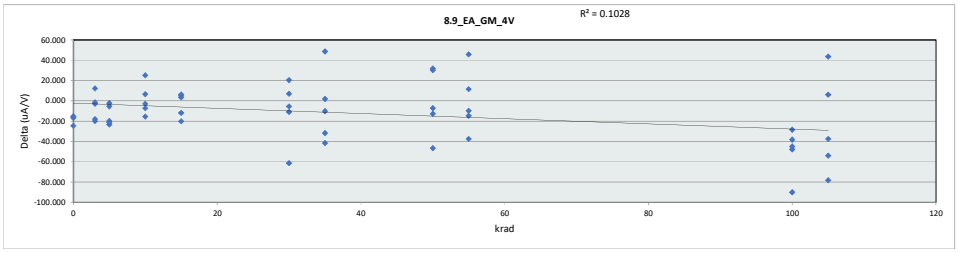


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

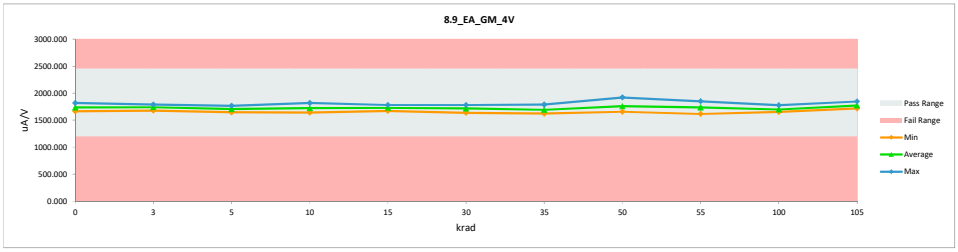
	8.9_EA_GM_4V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2500	2450
Min Limit	1150	1200

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1841.950	1817.329	-24.621
0	69	1744.011	1728.674	-15.337
0	70	1680.730	1663.779	-16.951
3	1	1763.739	1745.626	-18.113
3	2	1698.769	1678.628	-20.141
3	3	1780.407	1778.943	-1.464
3	4	1778.727	1790.821	12.094
3	5	1707.101	1704.101	-3.000
5	6	1684.214	1664.241	-19.973
5	7	1669.915	1646.569	-23.346
5	8	1749.540	1744.011	-5.529
5	9	1786.131	1764.889	-21.242
5	10	1723.108	1720.731	-2.377
10	11	1780.888	1787.368	6.480
10	12	1823.581	1816.316	-7.265
10	13	1698.769	1683.150	-15.619
10	14	1663.424	1688.435	25.011
10	15	1641.992	1638.936	-3.056
15	16	1759.974	1764.899	4.925
15	17	1686.635	1692.856	6.221
15	19	1777.662	1780.888	3.226
15	20	1747.882	1727.651	-20.231
15	21	1684.214	1672.262	-11.952
30	22	1735.137	1742.083	6.946
30	23	1803.304	1741.721	-61.583
30	24	1667.276	1687.577	20.301
30	25	1643.013	1637.433	-5.580
30	26	1791.720	1780.699	-11.021
35	27	1729.013	1697.145	-31.868
35	28	1785.219	1786.901	1.682
35	29	1665.183	1623.497	-41.686
35	30	1589.271	1637.824	48.553
35	31	1724.233	1713.893	-10.340
50	32	1862.759	1855.456	-7.303
50	33	1625.243	1656.993	31.750
50	34	1718.590	1671.795	-46.795
50	35	1889.954	1920.117	30.163
50	36	1701.897	1689.047	-12.850
55	37	1889.358	1851.769	-37.589
55	38	1713.596	1703.686	-9.910
55	39	1629.774	1615.003	-14.771
55	40	1709.362	1720.731	11.369
55	41	1746.044	1791.720	45.676
100	42	1737.158	1698.778	-38.380
100	43	1820.642	1775.526	-45.116
100	44	1698.778	1650.773	-48.005
100	45	1781.399	1691.124	-90.275
100	46	1699.862	1671.279	-28.583
105	47	1878.390	1799.918	-78.472
105	48	1795.968	1741.803	-54.165
105	49	1716.445	1760.011	43.566
105	50	1753.921	1716.357	-37.564
105	51	1839.456	1845.404	5.948
	Max	1889.954	1920.117	48.553
	Average	1739.912	1727.871	-12.041
	Min	1589.271	1615.003	-90.275
	Std Dev	69.331	66.789	28.582



	8.9_EA_GM_4V	
Test Site		
Tester		
Test Number		
Max Limit	2450	uA/V
Min Limit	1200	uA/V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000
Min	1663.779	1678.628	1646.569	1638.936	1672.262	1637.433	1623.497	1656.993	1615.003	1650.773	1716.357
Average	1736.594	1739.624	1708.088	1722.841	1727.711	1717.903	1691.852	1758.682	1736.582	1697.496	1772.699
Max	1817.329	1790.821	1764.889	1816.316	1780.888	1780.699	1786.901	1920.117	1851.769	1775.526	1845.404
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

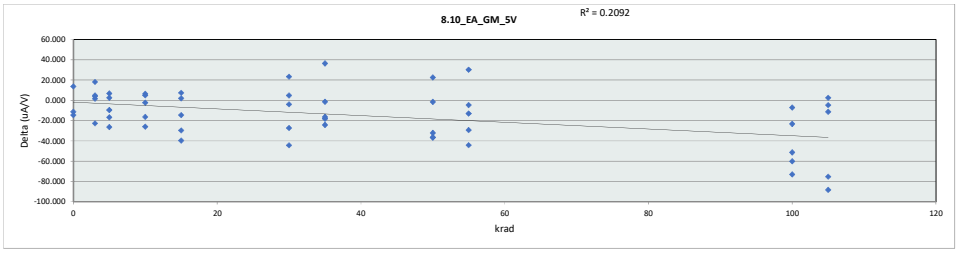


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

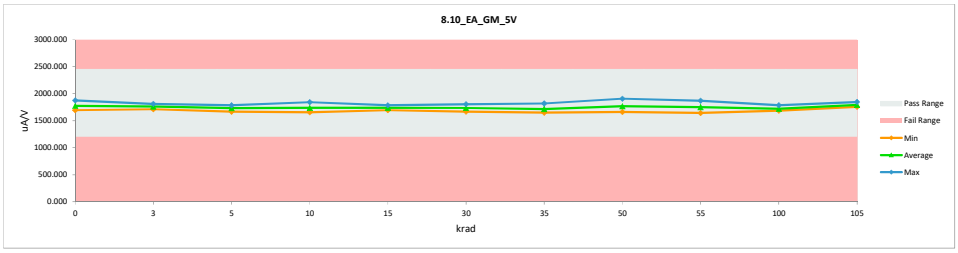
	8.10_EA_GM_5V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2500	2450
Min Limit	1150	1200

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1859.548	1873.147	13.599
0	69	1759.623	1748.146	-11.477
0	70	1708.631	1693.915	-14.716
3	1	1779.547	1780.898	1.351
3	2	1707.805	1711.603	3.798
3	3	1791.720	1809.723	18.003
3	4	1808.221	1785.304	-22.917
3	5	1724.986	1729.592	4.606
5	6	1713.596	1687.102	-26.494
5	7	1665.704	1668.005	2.301
5	8	1763.591	1770.187	6.596
5	9	1801.967	1785.067	-16.900
5	10	1748.619	1738.869	-9.750
10	11	1825.009	1798.837	-26.172
10	12	1835.823	1842.112	6.289
10	13	1706.163	1703.686	-2.477
10	14	1683.023	1687.832	4.809
10	15	1671.678	1655.080	-16.598
15	16	1779.094	1780.888	1.794
15	17	1722.622	1707.874	-14.748
15	19	1814.391	1784.478	-29.913
15	20	1778.745	1738.860	-39.885
15	21	1686.619	1693.890	7.271
30	22	1756.142	1728.656	-27.486
30	23	1814.705	1770.197	-44.508
30	24	1687.721	1710.922	23.201
30	25	1660.494	1665.183	4.689
30	26	1808.211	1804.070	-4.141
35	27	1742.716	1726.140	-16.576
35	28	1836.375	1818.067	-18.308
35	29	1657.402	1655.832	-1.570
35	30	1611.133	1647.401	36.268
35	31	1753.105	1728.665	-24.440
50	32	1892.416	1890.689	-1.727
50	33	1638.080	1660.494	22.414
50	34	1725.510	1688.715	-36.795
50	35	1939.069	1906.653	-32.416
50	36	1723.613	1686.856	-36.757
55	37	1913.875	1869.515	-44.360
55	38	1744.002	1714.436	-29.566
55	39	1646.585	1641.767	-4.818
55	40	1737.581	1724.339	-13.242
55	41	1772.928	1802.965	30.037
100	42	1746.081	1738.860	-7.221
100	43	1846.603	1786.292	-60.311
100	44	1740.583	1689.089	-51.494
100	45	1781.437	1708.222	-73.215
100	46	1707.639	1684.223	-23.416
105	47	1906.144	1817.703	-88.441
105	48	1829.846	1754.398	-75.448
105	49	1780.898	1783.217	2.319
105	50	1765.948	1754.388	-11.560
105	51	1852.864	1847.884	-4.980
	Max	1939.069	1906.653	36.268
	Average	1761.442	1746.810	-14.632
	Min	1611.133	1641.767	-88.441
	Std Dev	73.443	65.905	25.930



	8.10_EA_GM_5V	
Test Site		
Tester		
Test Number		
Max Limit	2450	uA/V
Min Limit	1200	uA/V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000
Min	1693.915	1711.603	1668.005	1655.080	1693.890	1665.183	1647.401	1660.494	1641.767	1684.223	1754.388
Average	1771.736	1763.424	1729.846	1737.509	1741.198	1735.806	1715.221	1766.681	1750.604	1721.337	1791.518
Max	1873.147	1809.723	1785.067	1842.112	1784.478	1804.070	1818.067	1906.653	1869.515	1786.292	1847.884
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

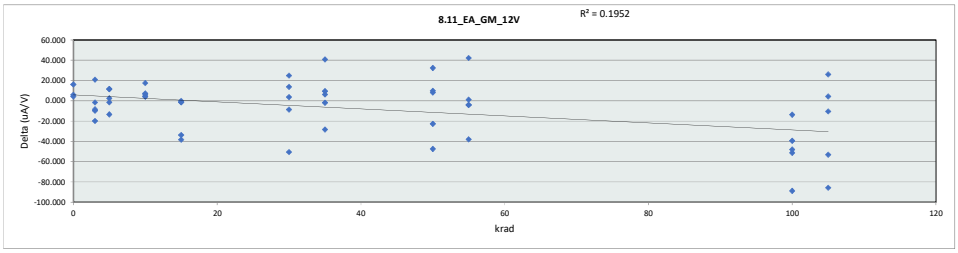


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

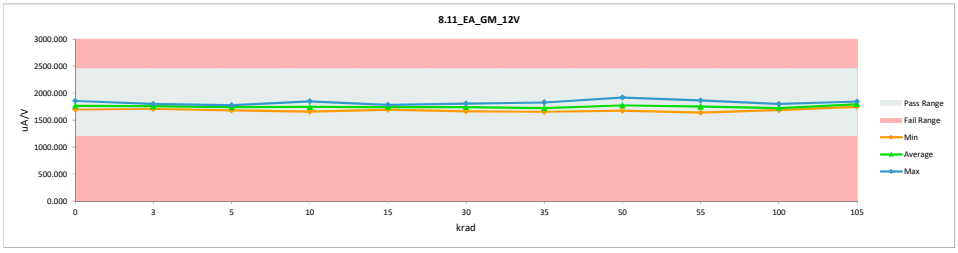
	8.11_EA_GM_12V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2500	2450
Min Limit	1150	1200

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1847.904	1853.703	5.799
0	69	1733.757	1749.704	15.947
0	70	1689.038	1693.095	4.057
3	1	1786.292	1766.320	-19.972
3	2	1716.085	1706.163	-9.922
3	3	1778.510	1799.233	20.723
3	4	1797.180	1788.730	-8.450
3	5	1732.718	1730.921	-1.797
5	6	1697.686	1709.292	11.606
5	7	1681.707	1680.091	-1.616
5	8	1761.961	1773.237	11.276
5	9	1789.007	1775.517	-13.490
5	10	1746.744	1749.185	2.441
10	11	1790.353	1807.695	17.342
10	12	1842.112	1847.894	5.782
10	13	1709.458	1713.587	4.129
10	14	1686.788	1693.898	7.110
10	15	1651.187	1655.170	3.983
15	16	1781.030	1780.888	-0.142
15	17	1724.250	1722.692	-1.558
15	19	1819.369	1780.888	-38.481
15	20	1762.553	1728.656	-33.897
15	21	1690.664	1689.038	-1.626
30	22	1754.388	1757.890	3.502
30	23	1818.432	1767.828	-50.604
30	24	1694.985	1708.631	13.646
30	25	1634.410	1659.156	24.746
30	26	1813.773	1805.069	-8.704
35	27	1741.965	1713.596	-28.369
35	28	1819.369	1825.505	6.136
35	29	1651.114	1660.494	9.380
35	30	1612.791	1653.506	40.715
35	31	1747.891	1745.890	-2.001
50	32	1879.642	1889.347	9.705
50	33	1639.264	1671.487	32.223
50	34	1721.093	1673.596	-47.497
50	35	1910.268	1918.405	8.137
50	36	1731.493	1708.622	-22.871
55	37	1899.992	1861.890	-38.102
55	38	1722.772	1718.590	-4.182
55	39	1637.433	1638.448	1.015
55	40	1732.047	1727.802	-4.245
55	41	1767.548	1809.606	42.058
100	42	1785.209	1733.757	-51.452
100	43	1836.687	1797.180	-39.507
100	44	1738.860	1690.655	-48.205
100	45	1796.805	1707.831	-88.974
100	46	1697.455	1683.682	-13.773
105	47	1907.792	1821.947	-85.845
105	48	1824.999	1771.786	-53.213
105	49	1758.010	1783.880	25.870
105	50	1757.872	1747.363	-10.509
105	51	1837.934	1842.112	4.178
	Max	1910.268	1918.405	42.058
	Average	1756.390	1748.890	-7.500
	Min	1612.791	1638.448	-88.974
	Std Dev	71.420	64.756	27.990



	8.11_EA_GM_12V	
Test Site		
Tester		
Test Number		
Max Limit	2450	uA/V
Min Limit	1200	uA/V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000
Min	1693.095	1706.163	1680.091	1655.170	1689.038	1659.156	1653.506	1671.487	1638.448	1683.682	1747.363
Average	1765.501	1758.273	1737.464	1743.649	1740.432	1739.715	1719.798	1772.291	1751.267	1722.621	1793.418
Max	1853.703	1799.233	1775.517	1847.894	1780.888	1805.069	1825.505	1918.405	1861.890	1797.180	1842.112
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

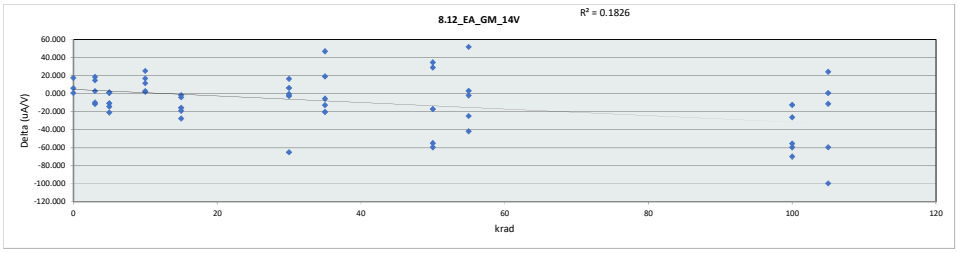


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

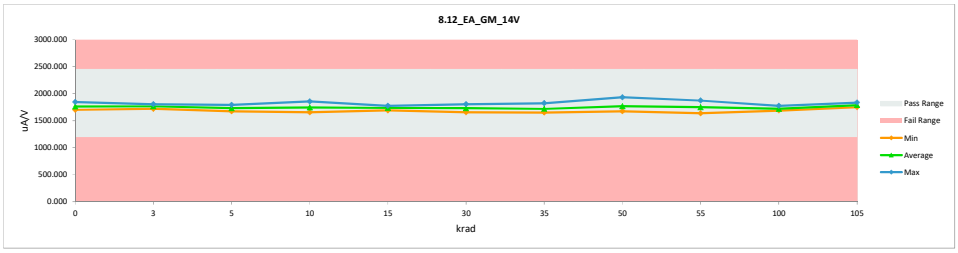
	8.12_EA_GM_14V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2500	2450
Min Limit	1150	1200

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1844.998	1845.567	0.569
0	69	1728.674	1745.953	17.279
0	70	1693.018	1698.778	5.760
3	1	1780.888	1769.151	-11.737
3	2	1703.686	1718.132	14.446
3	3	1780.888	1799.098	18.210
3	4	1813.773	1803.788	-9.985
3	5	1728.665	1731.198	2.533
5	6	1703.686	1704.742	1.056
5	7	1687.764	1673.062	-14.702
5	8	1761.739	1762.257	0.518
5	9	1802.684	1791.720	-10.964
5	10	1741.721	1720.581	-21.140
10	11	1793.539	1804.739	11.200
10	12	1828.779	1853.703	24.924
10	13	1713.587	1716.085	2.498
10	14	1679.855	1696.553	16.698
10	15	1652.333	1654.191	1.858
15	16	1787.501	1759.623	-27.878
15	17	1713.604	1709.249	-4.355
15	19	1794.758	1775.536	-19.222
15	20	1756.087	1740.158	-15.929
15	21	1690.868	1689.047	-1.821
30	22	1749.185	1746.381	-2.804
30	23	1806.751	1741.432	-65.319
30	24	1696.322	1712.590	16.268
30	25	1652.749	1652.032	-0.717
30	26	1797.180	1803.149	5.969
35	27	1738.869	1725.847	-13.022
35	28	1804.691	1823.462	18.771
35	29	1657.107	1651.195	-5.912
35	30	1606.198	1652.781	46.583
35	31	1754.398	1733.748	-20.650
50	32	1889.347	1871.945	-17.402
50	33	1640.290	1674.649	34.359
50	34	1728.665	1673.454	-55.211
50	35	1903.992	1932.692	28.700
50	36	1744.011	1684.214	-59.797
55	37	1914.377	1872.426	-41.951
55	38	1733.748	1708.622	-25.126
55	39	1632.398	1635.230	2.832
55	40	1722.180	1719.920	-2.260
55	41	1751.083	1802.674	51.591
100	42	1744.528	1731.833	-12.695
100	43	1835.230	1775.536	-59.694
100	44	1744.021	1688.358	-55.663
100	45	1785.798	1715.742	-70.056
100	46	1712.765	1686.144	-26.621
105	47	1913.886	1814.165	-99.721
105	48	1819.369	1759.632	-59.737
105	49	1757.154	1781.068	23.914
105	50	1747.090	1747.463	0.373
105	51	1847.884	1836.375	-11.509
Max		1914.377	1932.692	51.591
Average		1754.988	1745.616	-9.372
Min		1606.198	1635.230	-99.721
Std Dev		70.741	65.248	30.409



	8.12_EA_GM_14V	
Test Site		
Tester		
Test Number		
Max Limit	2450	uA/V
Min Limit	1200	uA/V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000	1200.000
Min	1698.778	1718.132	1673.062	1654.191	1689.047	1652.032	1651.195	1673.454	1635.230	1686.144	1747.463
Average	1763.433	1764.273	1730.472	1745.054	1734.723	1731.117	1717.407	1767.391	1747.774	1719.523	1787.741
Max	1845.567	1803.788	1791.720	1853.703	1775.536	1803.149	1823.462	1932.692	1872.426	1775.536	1836.375
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

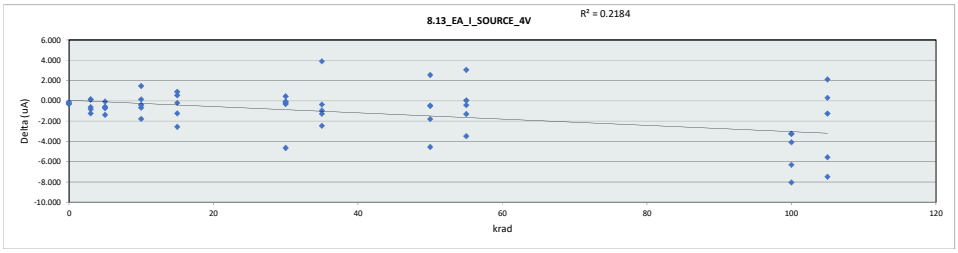


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

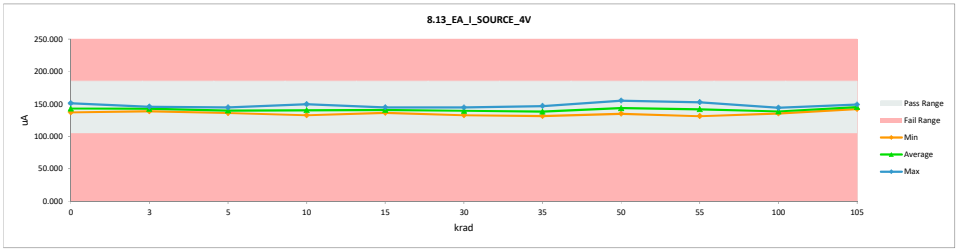
	8.13_EA_I_SOURCE_4V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	151.451	151.106	-0.345
0	69	141.041	140.806	-0.235
0	70	137.266	137.145	-0.121
3	1	143.848	143.222	-0.626
3	2	138.464	138.608	0.144
3	3	145.733	145.847	0.114
3	4	146.973	145.730	-1.243
3	5	140.480	139.647	-0.833
5	6	136.715	135.976	-0.739
5	7	136.125	136.043	-0.082
5	8	141.977	141.390	-0.587
5	9	145.869	144.480	-1.389
5	10	142.357	141.705	-0.652
10	11	145.885	145.482	-0.403
10	12	149.452	149.591	0.139
10	13	139.226	137.431	-1.795
10	14	134.508	135.962	1.454
10	15	133.327	132.653	-0.674
15	16	143.323	143.854	0.531
15	17	139.418	139.202	-0.216
15	19	146.086	144.833	-1.253
15	20	142.524	139.958	-2.566
15	21	135.398	136.287	0.889
30	22	140.877	140.562	-0.315
30	23	147.186	142.537	-4.649
30	24	137.615	137.506	-0.109
30	25	132.131	132.565	0.434
30	26	144.674	144.563	-0.111
35	27	141.878	139.418	-2.460
35	28	147.188	146.821	-0.367
35	29	132.228	131.269	-0.959
35	30	129.714	133.596	3.882
35	31	141.374	140.084	-1.290
50	32	154.539	154.060	-0.479
50	33	132.268	134.807	2.539
50	34	141.375	136.812	-4.563
50	35	155.531	155.031	-0.500
50	36	138.613	136.805	-1.808
55	37	156.191	152.700	-3.491
55	38	140.674	139.363	-1.311
55	39	131.526	131.095	-0.431
55	40	140.123	140.151	0.028
55	41	143.378	146.428	3.050
100	42	142.266	139.008	-3.258
100	43	150.336	144.018	-6.318
100	44	139.571	135.471	-4.100
100	45	146.392	138.337	-8.055
100	46	139.150	135.879	-3.271
105	47	156.003	148.502	-7.501
105	48	149.006	143.433	-5.573
105	49	141.098	143.197	2.099
105	50	141.795	142.092	0.297
105	51	150.251	148.986	-1.265
	Max	156.191	155.031	3.882
	Average	142.309	141.171	-1.139
	Min	129.714	131.095	-8.055
	Std Dev	6.398	5.702	2.358



	8.13_EA_I_SOURCE_4V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	137.145	138.608	135.976	132.653	136.287	132.565	131.269	134.807	131.095	135.471	142.092
Average	143.019	142.611	139.919	140.224	140.827	139.547	138.238	143.503	141.947	138.543	145.242
Max	151.106	145.847	144.480	149.591	144.833	144.563	146.821	155.031	152.700	144.018	148.986
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

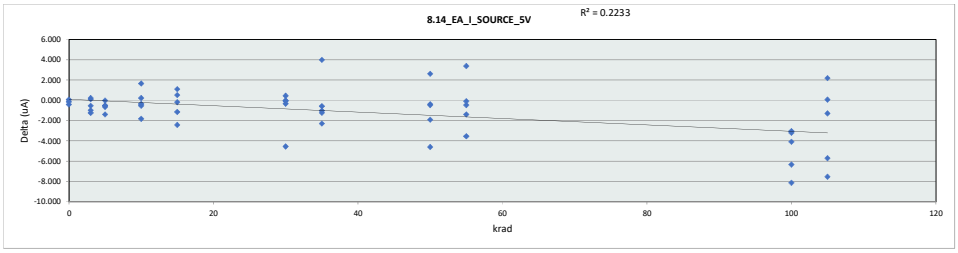


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

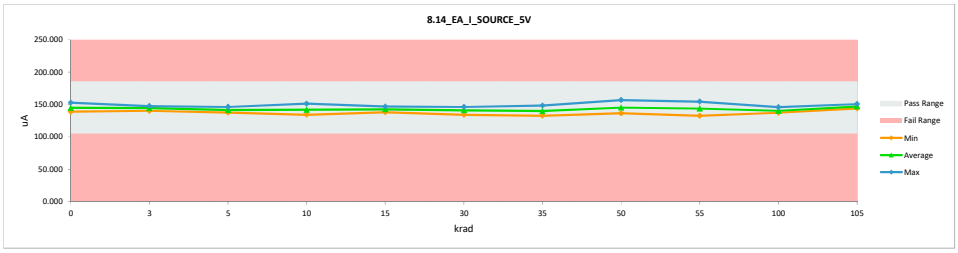
	8.14_EA_I_SOURCE_5V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	153.141	152.713	-0.428
0	69	142.622	142.474	-0.148
0	70	138.758	138.822	0.064
3	1	145.504	144.947	-0.557
3	2	140.164	140.261	0.097
3	3	147.296	147.510	0.214
3	4	148.565	147.315	-1.250
3	5	142.211	141.213	-0.998
5	6	138.217	137.544	-0.673
5	7	137.704	137.666	-0.038
5	8	143.538	143.014	-0.524
5	9	147.513	146.107	-1.406
5	10	143.797	143.260	-0.537
10	11	147.458	147.082	-0.376
10	12	150.958	151.166	0.208
10	13	140.674	138.838	-1.836
10	14	136.042	137.685	1.643
10	15	134.673	134.113	-0.560
15	16	144.912	145.421	0.509
15	17	140.948	140.755	-0.193
15	19	147.759	146.598	-1.161
15	20	144.137	141.689	-2.448
15	21	136.846	137.929	1.083
30	22	142.486	142.135	-0.351
30	23	148.778	144.206	-4.572
30	24	138.997	138.916	-0.081
30	25	133.565	133.991	0.426
30	26	146.143	146.109	-0.034
35	27	143.278	140.982	-2.296
35	28	148.995	148.397	-0.598
35	29	133.824	132.795	-1.029
35	30	131.288	135.261	3.973
35	31	142.895	141.657	-1.238
50	32	156.109	155.703	-0.406
50	33	133.663	136.264	2.601
50	34	142.921	138.310	-4.611
50	35	157.299	156.823	-0.476
50	36	140.343	138.418	-1.925
55	37	157.942	154.379	-3.563
55	38	142.439	141.035	-1.404
55	39	133.082	132.606	-0.476
55	40	141.786	141.686	-0.100
55	41	144.802	148.171	3.369
100	42	143.816	140.592	-3.224
100	43	152.073	145.725	-6.348
100	44	141.214	137.118	-4.096
100	45	148.027	139.880	-8.147
100	46	140.471	137.416	-3.055
105	47	157.770	150.220	-7.550
105	48	150.729	145.007	-5.722
105	49	142.631	144.806	2.175
105	50	143.698	143.757	0.059
105	51	151.842	150.534	-1.308
	Max	157.942	156.823	3.973
	Average	143.893	142.774	-1.119
	Min	131.288	132.606	-8.147
	Std Dev	6.458	5.743	2.394



	8.14_EA_I_SOURCE_5V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	138.822	140.261	137.544	134.113	137.929	133.991	132.795	136.264	132.606	137.118	143.757
Average	144.670	144.249	141.518	141.777	142.478	141.071	139.818	145.104	143.575	140.146	146.865
Max	152.713	147.510	146.107	151.166	146.598	146.109	148.397	156.823	154.379	145.725	150.534
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

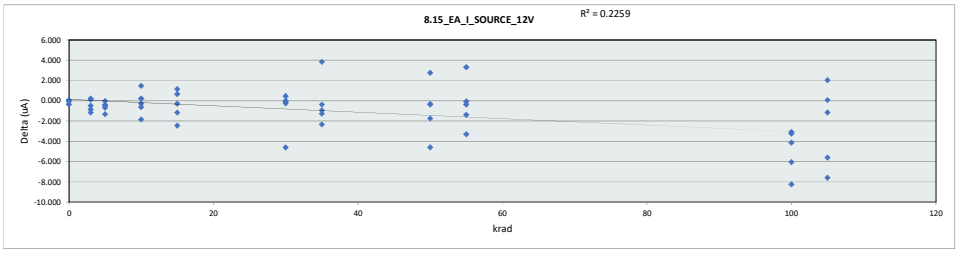


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

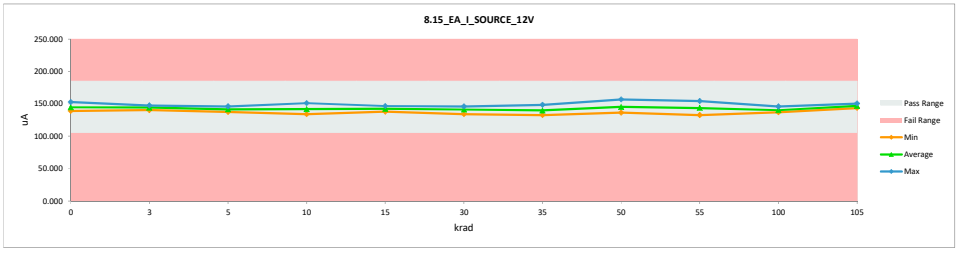
	8.15_EA_I_SOURCE_12V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	153.112	152.755	-0.357
0	69	142.642	142.601	-0.041
0	70	138.824	138.898	0.074
3	1	145.440	144.960	-0.480
3	2	140.242	140.462	0.220
3	3	147.415	147.528	0.113
3	4	148.614	147.438	-1.176
3	5	142.232	141.372	-0.860
5	6	138.263	137.566	-0.697
5	7	137.690	137.653	-0.037
5	8	143.555	143.133	-0.422
5	9	147.476	146.154	-1.322
5	10	143.806	143.309	-0.497
10	11	147.509	147.231	-0.278
10	12	150.890	151.106	0.216
10	13	140.736	138.888	-1.848
10	14	136.153	137.623	1.470
10	15	134.807	134.178	-0.629
15	16	144.811	145.462	0.651
15	17	141.045	140.753	-0.292
15	19	147.815	146.645	-1.170
15	20	144.174	141.726	-2.448
15	21	136.875	138.020	1.145
30	22	142.467	142.214	-0.253
30	23	148.716	144.105	-4.611
30	24	139.100	139.021	-0.079
30	25	133.622	134.065	0.443
30	26	146.182	146.164	-0.018
35	27	143.323	140.988	-2.335
35	28	148.807	148.427	-0.380
35	29	133.752	132.797	-0.955
35	30	131.438	135.271	3.833
35	31	143.118	141.844	-1.274
50	32	156.087	155.715	-0.372
50	33	133.639	136.394	2.755
50	34	143.020	138.419	-4.601
50	35	157.235	156.907	-0.328
50	36	140.258	138.502	-1.756
55	37	157.778	154.476	-3.302
55	38	142.457	141.072	-1.385
55	39	133.051	132.689	-0.362
55	40	141.814	141.748	-0.066
55	41	144.819	148.124	3.305
100	42	143.870	140.784	-3.086
100	43	151.864	145.814	-6.050
100	44	141.289	137.156	-4.133
100	45	148.257	140.013	-8.244
100	46	140.720	137.468	-3.252
105	47	157.867	150.268	-7.599
105	48	150.659	145.053	-5.606
105	49	142.871	144.896	2.025
105	50	143.560	143.615	0.055
105	51	151.718	150.567	-1.151
	Max	157.867	156.907	3.833
	Average	143.915	142.831	-1.084
	Min	131.438	132.689	-8.244
	Std Dev	6.423	5.735	2.381



	8.15_EA_I_SOURCE_12V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	138.898	140.462	137.566	134.178	138.020	134.065	132.797	136.394	132.689	137.156	143.615
Average	144.751	144.352	141.563	141.805	142.521	141.114	139.865	145.187	143.622	140.247	146.880
Max	152.755	147.528	146.154	151.106	146.645	146.164	148.427	156.907	154.476	145.814	150.567
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

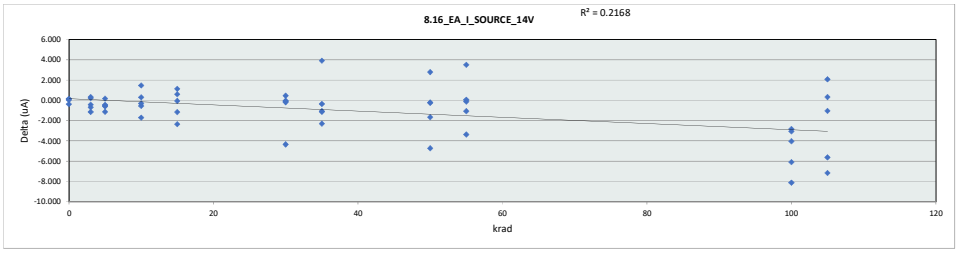


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

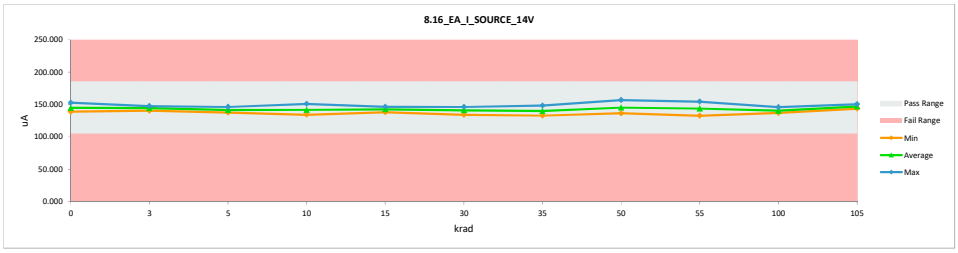
	8.16_EA_I_SOURCE_14V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	152.997	152.592	-0.405
0	69	142.525	142.551	0.026
0	70	138.689	138.816	0.127
3	1	145.353	144.917	-0.436
3	2	140.061	140.373	0.312
3	3	147.224	147.430	0.206
3	4	148.440	147.281	-1.159
3	5	142.077	141.374	-0.703
5	6	138.106	137.491	-0.615
5	7	137.586	137.749	0.163
5	8	143.423	142.965	-0.458
5	9	147.237	146.089	-1.148
5	10	143.820	143.270	-0.550
10	11	147.388	147.070	-0.318
10	12	150.674	150.955	0.281
10	13	140.614	138.889	-1.725
10	14	136.109	137.558	1.449
10	15	134.742	134.170	-0.572
15	16	144.726	145.314	0.588
15	17	140.815	140.740	-0.075
15	19	147.717	146.545	-1.172
15	20	144.005	141.633	-2.372
15	21	136.817	137.928	1.111
30	22	142.314	142.116	-0.198
30	23	148.517	144.162	-4.355
30	24	139.100	138.997	-0.103
30	25	133.580	134.017	0.437
30	26	146.145	146.083	-0.062
35	27	143.261	140.946	-2.315
35	28	148.678	148.302	-0.376
35	29	133.854	132.764	-1.090
35	30	131.340	135.234	3.894
35	31	142.874	141.722	-1.152
50	32	155.946	155.674	-0.272
50	33	133.574	136.350	2.776
50	34	143.113	138.362	-4.751
50	35	157.007	156.784	-0.223
50	36	140.087	138.405	-1.682
55	37	157.820	154.436	-3.384
55	38	142.094	141.007	-1.087
55	39	132.850	132.706	-0.144
55	40	141.606	141.650	0.044
55	41	144.560	148.040	3.480
100	42	143.553	140.705	-2.848
100	43	151.795	145.695	-6.100
100	44	141.090	137.043	-4.047
100	45	148.095	139.956	-8.139
100	46	140.457	137.379	-3.078
105	47	157.390	150.206	-7.184
105	48	150.658	145.017	-5.641
105	49	142.778	144.839	2.061
105	50	143.255	143.561	0.306
105	51	151.464	150.406	-1.058
	Max	157.820	156.784	3.894
	Average	143.774	142.760	-1.014
	Min	131.340	132.706	-8.139
	Std Dev	6.396	5.712	2.365



	8.16_EA_I_SOURCE_14V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	138.816	140.373	137.491	134.170	137.928	134.017	132.764	136.350	132.706	137.043	143.561
Average	144.653	144.275	141.513	141.728	142.432	141.075	139.794	145.115	143.568	140.156	146.806
Max	152.592	147.430	146.089	150.955	146.545	146.083	148.302	156.784	154.436	145.695	150.406
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

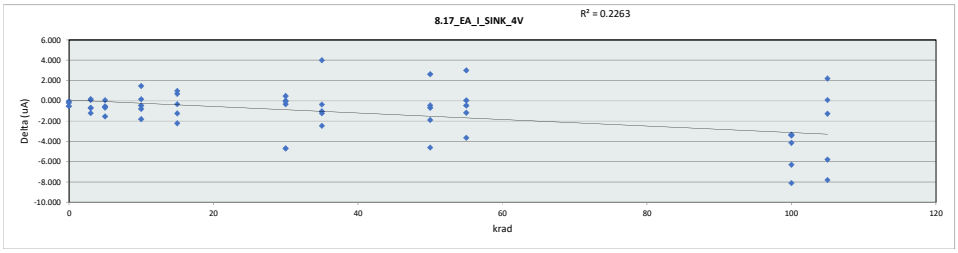


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

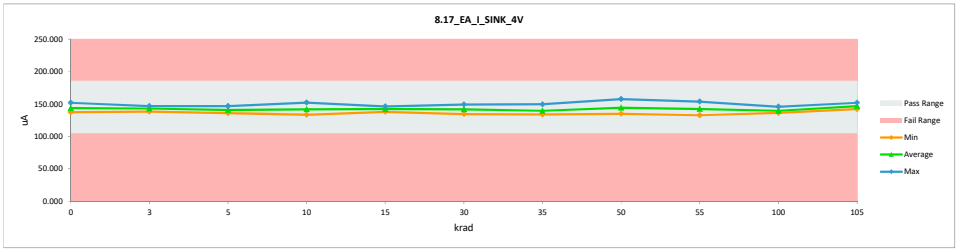
	8.17_EA_I_SINK_4V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	152.411	151.876	-0.535
0	69	141.591	141.394	-0.197
0	70	137.363	137.312	-0.051
3	1	144.682	143.978	-0.704
3	2	138.140	138.305	0.165
3	3	146.465	146.534	0.069
3	4	147.426	146.206	-1.220
3	5	140.220	139.516	-0.704
5	6	139.033	138.353	-0.680
5	7	135.759	135.821	0.062
5	8	143.552	142.960	-0.592
5	9	148.107	146.562	-1.545
5	10	140.588	140.025	-0.563
10	11	146.823	146.349	-0.474
10	12	151.873	152.025	0.152
10	13	140.047	138.232	-1.815
10	14	137.513	138.974	1.461
10	15	134.021	133.220	-0.801
15	16	145.461	146.138	0.677
15	17	139.151	138.816	-0.335
15	19	146.703	145.457	-1.246
15	20	144.568	142.353	-2.215
15	21	136.955	137.917	0.962
30	22	143.010	142.669	-0.341
30	23	148.406	143.700	-4.706
30	24	138.652	138.599	-0.053
30	25	134.055	134.517	0.462
30	26	149.165	149.159	-0.006
35	27	141.542	139.081	-2.461
35	28	149.707	149.337	-0.370
35	29	135.882	134.847	-1.035
35	30	129.620	133.618	3.998
35	31	142.134	140.905	-1.229
50	32	156.094	155.404	-0.690
50	33	132.452	135.079	2.627
50	34	139.450	134.844	-4.606
50	35	157.969	157.515	-0.454
50	36	140.537	138.640	-1.897
55	37	157.277	153.629	-3.648
55	38	139.759	138.576	-1.183
55	39	133.014	132.550	-0.464
55	40	140.245	140.275	0.030
55	41	143.485	146.486	3.001
100	42	143.988	140.640	-3.348
100	43	152.079	145.776	-6.303
100	44	140.833	136.687	-4.146
100	45	146.277	138.159	-8.118
100	46	139.795	136.380	-3.415
105	47	157.109	149.287	-7.822
105	48	149.558	143.764	-5.794
105	49	144.699	146.896	2.197
105	50	141.935	142.010	0.075
105	51	153.139	151.872	-1.267
	Max	157.969	157.515	3.998
	Average	143.402	142.250	-1.153
	Min	129.620	132.550	-8.118
	Std Dev	6.673	6.040	2.405



	8.17_EA_I_SINK_4V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	137.312	138.305	135.821	133.220	137.917	134.517	133.618	134.844	132.550	136.380	142.010
Average	143.527	142.908	140.744	141.760	142.136	141.729	139.558	144.296	142.303	139.528	146.766
Max	151.876	146.534	146.562	152.025	146.138	149.159	149.337	157.515	153.629	145.776	151.872
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

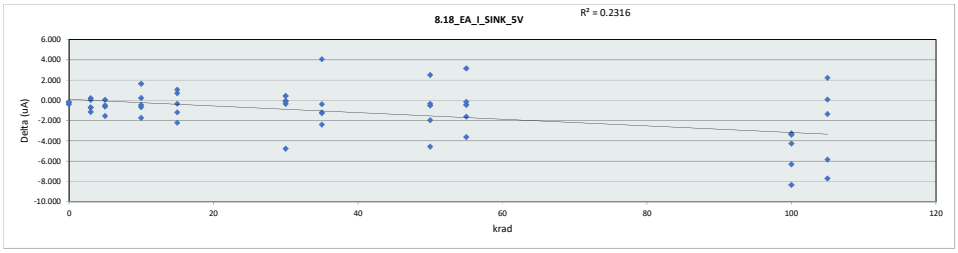


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

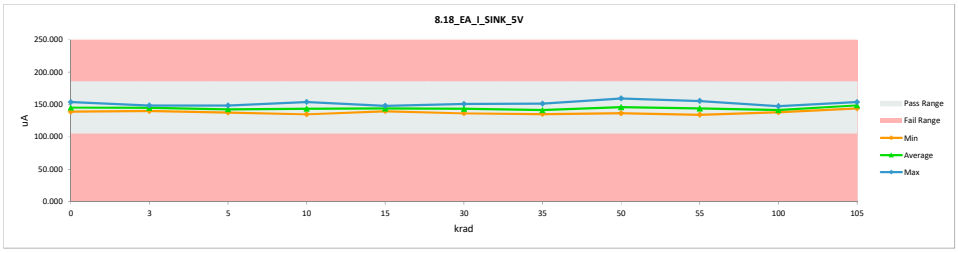
	8.18_EA_I_SINK_5V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	154.077	153.663	-0.414
0	69	143.105	142.932	-0.173
0	70	139.114	138.856	-0.258
3	1	146.333	145.625	-0.708
3	2	139.924	140.123	0.199
3	3	148.210	148.245	0.035
3	4	149.230	148.068	-1.162
3	5	141.935	141.204	-0.731
5	6	140.665	140.044	-0.621
5	7	137.492	137.538	0.046
5	8	145.247	144.740	-0.507
5	9	149.794	148.248	-1.546
5	10	142.227	141.608	-0.619
10	11	148.622	148.140	-0.482
10	12	153.576	153.784	0.208
10	13	141.491	139.742	-1.749
10	14	139.160	140.779	1.619
10	15	135.521	134.842	-0.679
15	16	147.195	147.883	0.688
15	17	140.696	140.343	-0.353
15	19	148.323	147.129	-1.194
15	20	146.320	144.104	-2.216
15	21	138.628	139.671	1.043
30	22	144.762	144.400	-0.362
30	23	150.120	145.338	-4.782
30	24	140.225	140.118	-0.107
30	25	135.675	136.097	0.422
30	26	150.872	150.782	-0.090
35	27	143.163	140.762	-2.401
35	28	151.629	151.231	-0.398
35	29	137.617	136.349	-1.268
35	30	131.136	135.179	4.043
35	31	143.710	142.500	-1.210
50	32	157.599	157.254	-0.345
50	33	134.103	136.590	2.487
50	34	141.026	136.450	-4.576
50	35	159.825	159.292	-0.533
50	36	142.303	140.329	-1.974
55	37	159.108	155.479	-3.629
55	38	141.861	140.232	-1.629
55	39	134.556	134.092	-0.464
55	40	141.972	141.811	-0.161
55	41	145.015	148.152	3.137
100	42	145.891	142.496	-3.395
100	43	153.711	147.390	-6.321
100	44	142.612	138.330	-4.282
100	45	148.271	139.915	-8.356
100	46	141.326	138.055	-3.271
105	47	158.811	151.093	-7.718
105	48	151.310	145.454	-5.856
105	49	146.506	148.712	2.206
105	50	143.762	143.829	0.067
105	51	154.912	153.539	-1.373
Max		159.825	159.292	4.043
Average		145.100	143.935	-1.164
Min		131.136	134.092	-8.356
Std Dev		6.713	6.102	2.424



	8.18_EA_I_SINK_5V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	138.856	140.123	137.538	134.842	139.671	136.097	135.179	136.450	134.092	138.055	143.829
Average	145.150	144.653	142.436	143.457	143.826	143.347	141.204	145.983	143.953	141.237	148.525
Max	153.663	148.245	148.248	153.784	147.883	150.782	151.231	159.292	155.479	147.390	153.539
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

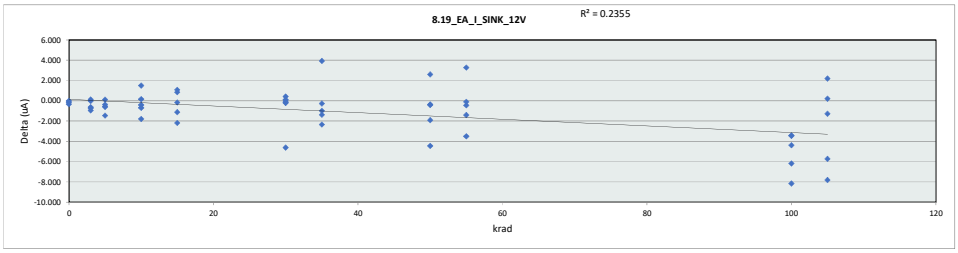


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

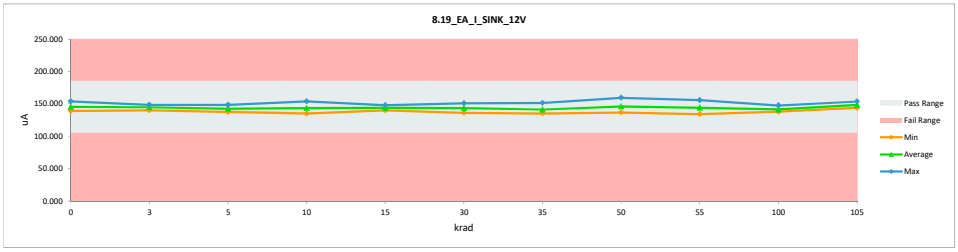
	8.19_EA_I_SINK_12V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	154.091	153.750	-0.341
0	69	143.162	142.998	-0.164
0	70	139.059	139.048	-0.011
3	1	146.385	145.753	-0.632
3	2	139.994	140.125	0.131
3	3	148.291	148.257	-0.034
3	4	149.189	148.233	-0.956
3	5	142.136	141.395	-0.741
5	6	140.707	140.091	-0.616
5	7	137.521	137.637	0.116
5	8	145.283	144.906	-0.377
5	9	149.812	148.348	-1.464
5	10	142.258	141.704	-0.554
10	11	148.700	148.287	-0.413
10	12	153.567	153.721	0.154
10	13	141.579	139.771	-1.808
10	14	139.332	140.830	1.498
10	15	135.642	134.939	-0.703
15	16	147.153	147.993	0.840
15	17	140.736	140.570	-0.166
15	19	148.356	147.233	-1.123
15	20	146.374	144.186	-2.188
15	21	138.742	139.807	1.065
30	22	144.780	144.553	-0.227
30	23	150.164	145.536	-4.628
30	24	140.319	140.192	-0.127
30	25	135.829	136.235	0.406
30	26	150.826	150.909	0.083
35	27	143.171	140.831	-2.340
35	28	151.553	151.280	-0.273
35	29	137.532	136.536	-0.996
35	30	131.357	135.268	3.911
35	31	144.095	142.705	-1.390
50	32	157.721	157.353	-0.368
50	33	134.100	136.697	2.597
50	34	141.057	136.599	-4.458
50	35	159.800	159.386	-0.414
50	36	142.281	140.366	-1.915
55	37	159.041	155.527	-3.514
55	38	141.710	140.293	-1.417
55	39	134.664	134.208	-0.456
55	40	141.993	141.891	-0.102
55	41	145.037	148.301	3.264
100	42	145.902	142.480	-3.422
100	43	153.679	147.495	-6.184
100	44	142.787	138.395	-4.392
100	45	148.212	140.042	-8.170
100	46	141.495	138.041	-3.454
105	47	158.913	151.091	-7.822
105	48	151.276	145.541	-5.735
105	49	146.629	148.817	2.188
105	50	143.664	143.864	0.200
105	51	154.866	153.585	-1.281
	Max	159.800	159.386	3.911
	Average	145.142	144.030	-1.112
	Min	131.357	134.208	-8.170
	Std Dev	6.684	6.091	2.415



	8.19_EA_I_SINK_12V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	139.048	140.125	137.637	134.939	139.807	136.235	135.268	136.599	134.208	138.041	143.864
Average	145.265	144.753	142.537	143.510	143.958	143.485	141.324	146.080	144.044	141.291	148.580
Max	153.750	148.257	148.348	153.721	147.993	150.909	151.280	159.386	155.527	147.495	153.585
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

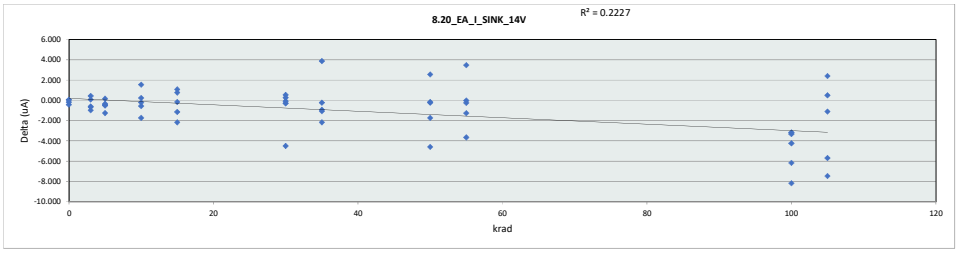


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

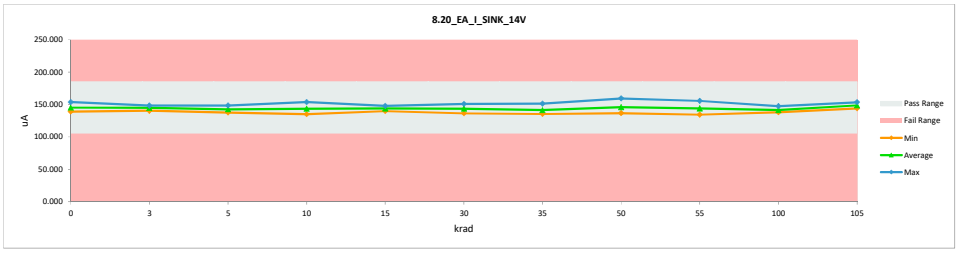
	8.20_EA_I_SINK_14V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	190	185
Min Limit	100	105

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	154.055	153.620	-0.435
0	69	143.148	142.954	-0.194
0	70	138.943	138.985	0.042
3	1	146.306	145.624	-0.682
3	2	139.757	140.178	0.421
3	3	148.151	148.214	0.063
3	4	149.068	148.082	-0.986
3	5	141.912	141.291	-0.621
5	6	140.610	140.082	-0.528
5	7	137.508	137.657	0.149
5	8	145.175	144.758	-0.417
5	9	149.592	148.325	-1.267
5	10	142.052	141.698	-0.354
10	11	148.451	148.229	-0.222
10	12	153.378	153.604	0.226
10	13	141.530	139.790	-1.740
10	14	139.329	140.857	1.528
10	15	135.490	134.912	-0.578
15	16	147.071	147.827	0.756
15	17	140.588	140.412	-0.176
15	19	148.296	147.137	-1.159
15	20	146.289	144.111	-2.178
15	21	138.665	139.724	1.059
30	22	144.733	144.428	-0.305
30	23	149.834	145.320	-4.514
30	24	140.303	140.206	-0.097
30	25	135.669	136.195	0.526
30	26	150.564	150.817	0.253
35	27	143.025	140.838	-2.187
35	28	151.417	151.174	-0.243
35	29	137.416	136.470	-0.946
35	30	131.325	135.188	3.863
35	31	143.670	142.590	-1.080
50	32	157.403	157.227	-0.176
50	33	134.096	136.631	2.535
50	34	141.135	136.533	-4.602
50	35	159.538	159.290	-0.248
50	36	142.060	140.313	-1.747
55	37	159.021	155.346	-3.675
55	38	141.515	140.232	-1.283
55	39	134.490	134.219	-0.271
55	40	141.829	141.795	-0.034
55	41	144.805	148.269	3.464
100	42	145.655	142.472	-3.183
100	43	153.592	147.410	-6.182
100	44	142.594	138.344	-4.250
100	45	148.179	139.990	-8.189
100	46	141.345	138.015	-3.330
105	47	158.571	151.095	-7.476
105	48	151.207	145.501	-5.706
105	49	146.362	148.742	2.380
105	50	143.388	143.864	0.476
105	51	154.624	153.503	-1.121
Max		159.538	159.290	3.863
Average		144.995	143.964	-1.031
Min		131.325	134.219	-8.189
Std Dev		6.652	6.065	2.412



	8.20_EA_I_SINK_14V	
Test Site		
Tester		
Test Number		
Max Limit	185	uA
Min Limit	105	uA

krad	0	3	5	10	15	30	35	50	55	100	105
LL	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000	105.000
Min	138.985	140.178	137.657	134.912	139.724	136.195	135.188	136.533	134.219	138.015	143.864
Average	145.186	144.678	142.504	143.478	143.842	143.393	141.252	145.999	143.972	141.246	148.541
Max	153.620	148.214	148.325	153.604	147.827	150.817	151.174	159.290	155.346	147.410	153.503
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

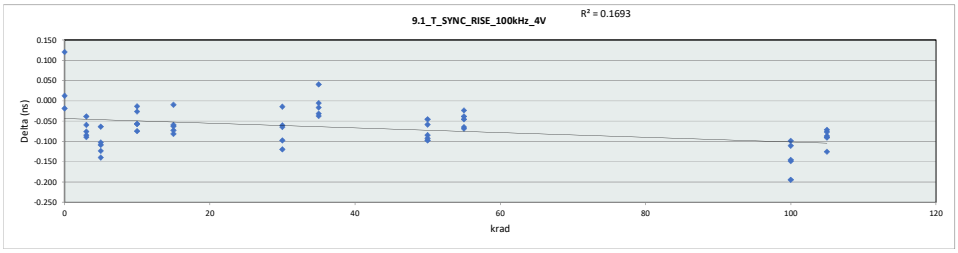


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

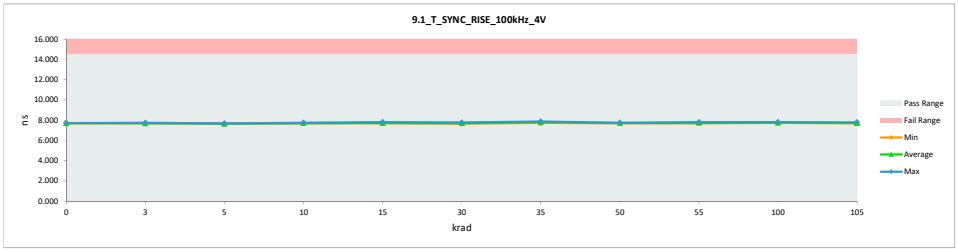
	9.1_T_SYNC_RISE_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.565	7.685	0.120
0	69	7.723	7.704	-0.019
0	70	7.713	7.725	0.012
3	1	7.763	7.703	-0.060
3	2	7.749	7.659	-0.090
3	3	7.830	7.745	-0.085
3	4	7.744	7.705	-0.039
3	5	7.737	7.661	-0.076
5	6	7.777	7.668	-0.109
5	7	7.770	7.667	-0.103
5	8	7.740	7.676	-0.064
5	9	7.800	7.676	-0.124
5	10	7.774	7.634	-0.140
10	11	7.805	7.748	-0.057
10	12	7.746	7.671	-0.075
10	13	7.698	7.684	-0.014
10	14	7.780	7.753	-0.027
10	15	7.743	7.685	-0.058
15	16	7.798	7.738	-0.060
15	17	7.758	7.685	-0.073
15	19	7.724	7.714	-0.010
15	20	7.889	7.807	-0.082
15	21	7.805	7.742	-0.063
30	22	7.770	7.650	-0.120
30	23	7.776	7.678	-0.098
30	24	7.824	7.759	-0.065
30	25	7.761	7.746	-0.015
30	26	7.785	7.724	-0.061
35	27	7.796	7.836	0.040
35	28	7.783	7.745	-0.038
35	29	7.758	7.726	-0.032
35	30	7.864	7.858	-0.006
35	31	7.797	7.780	-0.017
50	32	7.814	7.716	-0.098
50	33	7.839	7.746	-0.093
50	34	7.779	7.720	-0.059
50	35	7.766	7.681	-0.085
50	36	7.793	7.747	-0.046
55	37	7.695	7.671	-0.024
55	38	7.825	7.760	-0.065
55	39	7.841	7.795	-0.046
55	40	7.771	7.732	-0.039
55	41	7.869	7.800	-0.069
100	42	7.951	7.802	-0.149
100	43	7.846	7.735	-0.111
100	44	7.866	7.720	-0.146
100	45	7.945	7.750	-0.195
100	46	7.892	7.793	-0.099
105	47	7.753	7.662	-0.091
105	48	7.838	7.751	-0.087
105	49	7.867	7.795	-0.072
105	50	7.795	7.669	-0.126
105	51	7.801	7.724	-0.077
Max		7.951	7.858	0.120
Average		7.790	7.725	-0.066
Min		7.565	7.634	-0.195
Std Dev		0.064	0.050	0.051



	9.1_T_SYNC_RISE_100kHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14.5	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.685	7.659	7.634	7.671	7.685	7.650	7.726	7.681	7.671	7.720	7.662
Average	7.705	7.695	7.664	7.708	7.737	7.711	7.789	7.722	7.752	7.760	7.720
Max	7.725	7.745	7.676	7.753	7.807	7.759	7.858	7.747	7.800	7.802	7.795
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

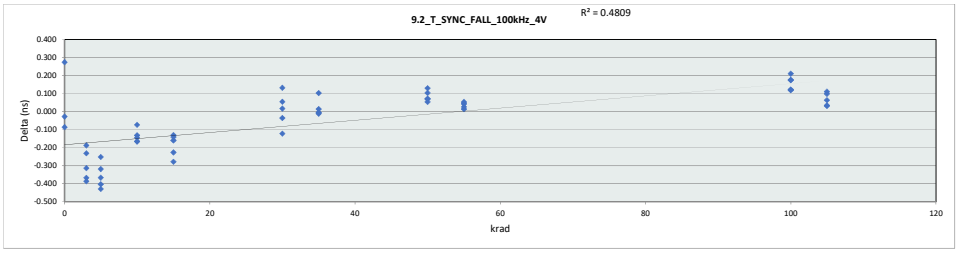


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

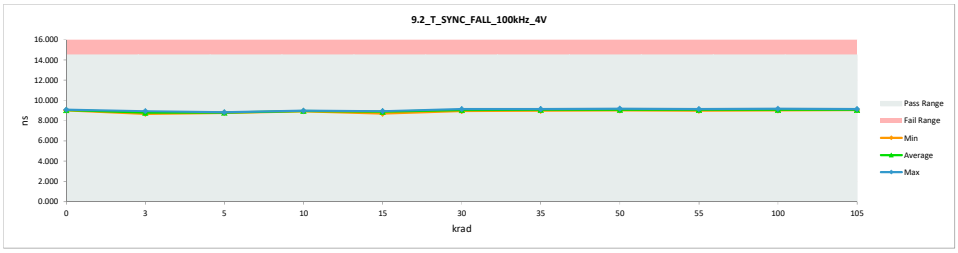
	9.2_T_SYNC_FALL_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.755	9.028	0.273
0	69	9.102	9.074	-0.028
0	70	9.126	9.039	-0.087
3	1	9.122	8.934	-0.188
3	2	9.100	8.868	-0.232
3	3	9.170	8.802	-0.368
3	4	9.068	8.681	-0.387
3	5	9.027	8.713	-0.314
5	6	9.123	8.756	-0.367
5	7	9.074	8.822	-0.252
5	8	9.097	8.778	-0.319
5	9	9.216	8.786	-0.430
5	10	9.187	8.783	-0.404
10	11	9.136	8.971	-0.165
10	12	9.111	8.979	-0.132
10	13	9.132	8.965	-0.167
10	14	9.049	8.975	-0.074
10	15	9.065	8.920	-0.145
15	16	9.065	8.904	-0.161
15	17	8.976	8.697	-0.279
15	19	9.161	8.934	-0.227
15	20	9.084	8.942	-0.142
15	21	9.072	8.941	-0.131
30	22	9.068	8.945	-0.123
30	23	9.034	8.998	-0.036
30	24	9.077	9.131	0.054
30	25	8.976	8.992	0.016
30	26	8.982	9.113	0.131
35	27	9.129	9.124	-0.005
35	28	9.010	9.002	-0.008
35	29	9.069	9.082	0.013
35	30	9.028	9.130	0.102
35	31	8.994	8.981	-0.013
50	32	9.008	9.111	0.103
50	33	9.050	9.179	0.129
50	34	8.959	9.028	0.069
50	35	8.994	9.064	0.070
50	36	8.964	9.017	0.053
55	37	8.966	8.979	0.013
55	38	9.036	9.062	0.026
55	39	8.996	9.049	0.053
55	40	9.023	9.070	0.047
55	41	9.107	9.148	0.041
100	42	8.999	9.174	0.175
100	43	8.885	9.003	0.118
100	44	8.894	9.068	0.174
100	45	8.896	9.106	0.210
100	46	8.887	9.009	0.122
105	47	8.938	9.048	0.110
105	48	9.009	9.043	0.034
105	49	9.049	9.147	0.098
105	50	9.012	9.043	0.031
105	51	8.977	9.040	0.063
Max		9.216	9.179	0.273
Average		9.038	8.984	-0.054
Min		8.755	8.681	-0.430
Std Dev		0.086	0.126	0.175



	9.2_T_SYNC_FALL_100kHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14.5	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.028	8.681	8.756	8.920	8.697	8.945	8.981	9.017	8.979	9.003	9.040
Average	9.047	8.800	8.785	8.962	8.884	9.036	9.064	9.080	9.062	9.072	9.064
Max	9.074	8.934	8.822	8.979	8.942	9.131	9.130	9.179	9.148	9.174	9.147
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

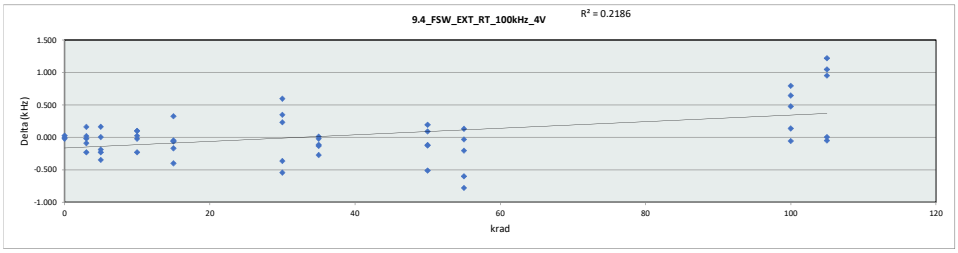


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

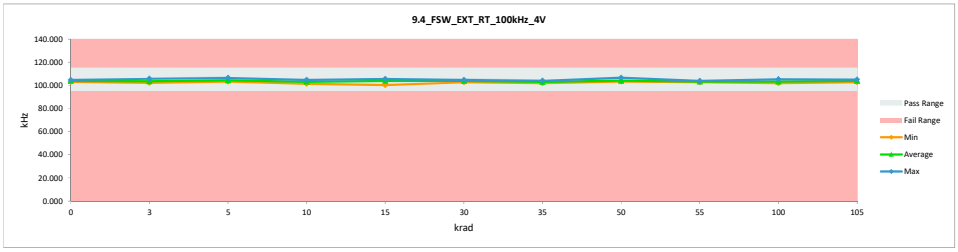
	9.4_FSW_EXT_RT_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	104.178	104.155	-0.023
0	69	103.061	103.051	-0.010
0	70	104.616	104.638	0.022
3	1	102.592	102.358	-0.234
3	2	102.120	102.278	0.158
3	3	103.357	103.264	-0.093
3	4	103.875	103.892	0.017
3	5	105.646	105.624	-0.022
5	6	106.211	106.370	0.159
5	7	104.735	104.501	-0.234
5	8	104.334	103.982	-0.352
5	9	103.431	103.240	-0.191
5	10	103.438	103.438	0.000
10	11	102.821	102.841	0.020
10	12	101.270	101.368	0.098
10	13	104.123	104.097	-0.026
10	14	104.991	104.756	-0.235
10	15	102.202	102.298	0.096
15	16	100.309	100.138	-0.171
15	17	105.316	105.249	-0.067
15	19	105.585	105.534	-0.051
15	20	103.619	103.215	-0.404
15	21	105.125	105.446	0.321
30	22	104.315	103.948	-0.367
30	23	102.402	102.631	0.229
30	24	104.220	104.563	0.343
30	25	104.184	104.776	0.592
30	26	104.624	104.077	-0.547
35	27	102.548	102.524	-0.024
35	28	104.065	103.948	-0.117
35	29	103.282	103.147	-0.135
35	30	102.076	101.800	-0.276
35	31	103.100	103.108	0.008
50	32	103.359	103.229	-0.130
50	33	103.259	103.449	0.190
50	34	103.971	103.850	-0.121
50	35	104.008	103.492	-0.516
50	36	106.415	106.503	0.088
55	37	104.529	103.747	-0.782
55	38	103.622	103.749	0.127
55	39	103.182	103.146	-0.036
55	40	103.278	102.674	-0.604
55	41	103.484	103.277	-0.207
100	42	102.190	102.324	0.134
100	43	104.602	105.243	0.641
100	44	102.533	103.006	0.473
100	45	103.032	103.823	0.791
100	46	101.974	101.913	-0.061
105	47	104.145	104.145	0.000
105	48	103.879	104.923	1.044
105	49	103.043	104.258	1.215
105	50	102.641	103.589	0.948
105	51	102.719	102.666	-0.053
Max		106.415	106.503	1.215
Average		103.616	103.646	0.031
Min		100.309	100.138	-0.782
Std Dev		1.200	1.226	0.389



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	103.051	102.278	103.240	101.368	100.138	102.631	101.800	103.229	102.674	101.913	102.666
Average	103.948	103.483	104.306	103.072	103.916	103.999	102.905	104.105	103.319	103.262	103.916
Max	104.638	105.624	106.370	104.756	105.534	104.776	103.948	106.503	103.749	105.243	104.923
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

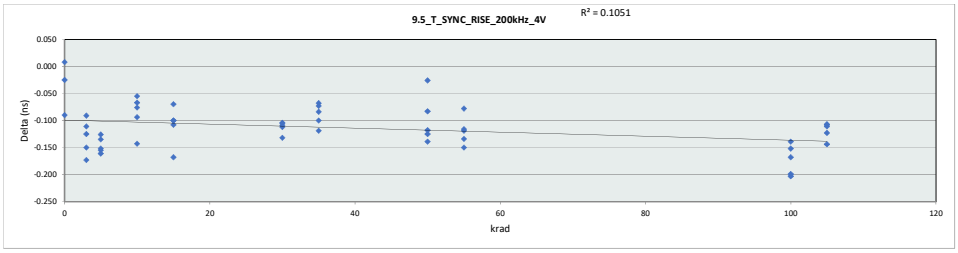


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

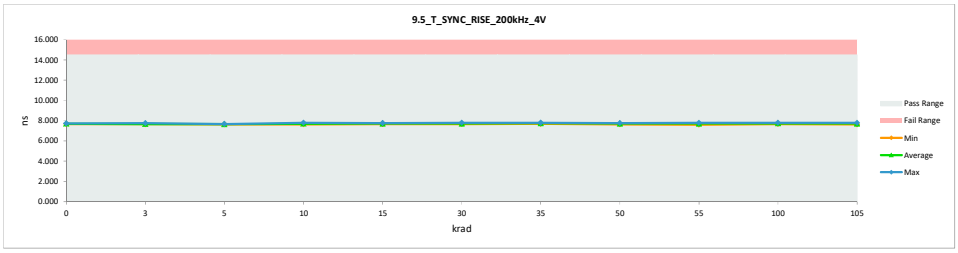
	9.5_T_SYNC_RISE_200kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.661	7.669	0.008
0	69	7.747	7.722	-0.025
0	70	7.767	7.677	-0.090
3	1	7.769	7.644	-0.125
3	2	7.754	7.663	-0.091
3	3	7.857	7.746	-0.111
3	4	7.849	7.676	-0.173
3	5	7.789	7.639	-0.150
5	6	7.766	7.640	-0.126
5	7	7.788	7.633	-0.155
5	8	7.818	7.666	-0.152
5	9	7.816	7.655	-0.161
5	10	7.760	7.625	-0.135
10	11	7.838	7.783	-0.055
10	12	7.790	7.647	-0.143
10	13	7.723	7.629	-0.094
10	14	7.778	7.702	-0.076
10	15	7.761	7.694	-0.067
15	16	7.818	7.718	-0.100
15	17	7.833	7.665	-0.168
15	19	7.752	7.682	-0.070
15	20	7.854	7.754	-0.100
15	21	7.817	7.709	-0.108
30	22	7.815	7.683	-0.132
30	23	7.780	7.675	-0.105
30	24	7.901	7.792	-0.109
30	25	7.791	7.687	-0.104
30	26	7.798	7.686	-0.112
35	27	7.858	7.774	-0.084
35	28	7.807	7.688	-0.119
35	29	7.780	7.707	-0.073
35	30	7.887	7.787	-0.100
35	31	7.811	7.743	-0.068
50	32	7.819	7.736	-0.083
50	33	7.787	7.761	-0.026
50	34	7.814	7.696	-0.118
50	35	7.757	7.632	-0.125
50	36	7.867	7.728	-0.139
55	37	7.753	7.603	-0.150
55	38	7.865	7.731	-0.134
55	39	7.879	7.760	-0.119
55	40	7.768	7.690	-0.078
55	41	7.893	7.777	-0.116
100	42	7.947	7.779	-0.168
100	43	7.879	7.680	-0.199
100	44	7.876	7.673	-0.203
100	45	7.937	7.785	-0.152
100	46	7.891	7.752	-0.139
105	47	7.738	7.615	-0.123
105	48	7.870	7.726	-0.144
105	49	7.886	7.775	-0.111
105	50	7.807	7.699	-0.108
105	51	7.854	7.747	-0.107
Max		7.947	7.792	0.008
Average		7.815	7.702	-0.113
Min		7.661	7.603	-0.203
Std Dev		0.057	0.051	0.041



	9.5_T_SYNC_RISE_200kHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14.5	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.669	7.639	7.625	7.629	7.665	7.675	7.688	7.632	7.603	7.673	7.615
Average	7.689	7.674	7.644	7.691	7.706	7.705	7.740	7.711	7.712	7.734	7.712
Max	7.722	7.746	7.666	7.783	7.754	7.792	7.787	7.761	7.777	7.785	7.775
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

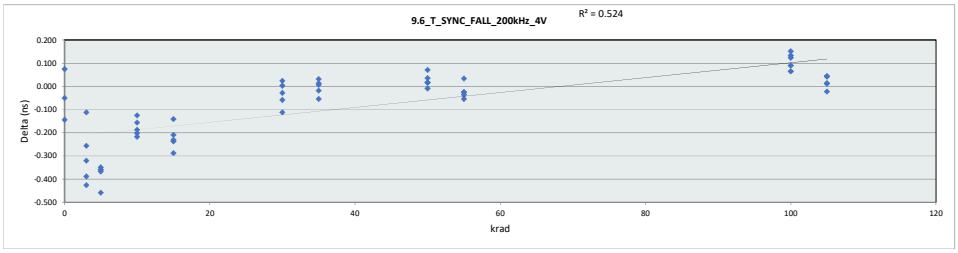


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

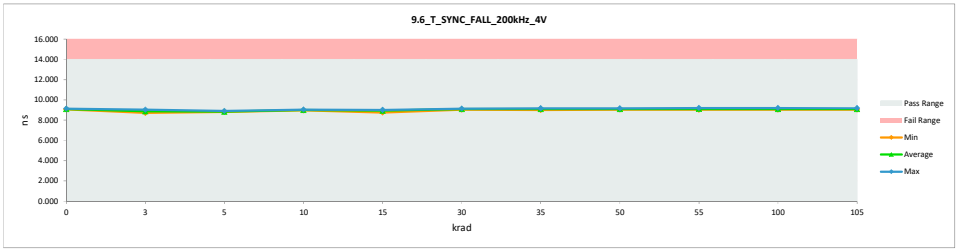
	9.6_T_SYNC_FALL_200kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	9.000	9.074	0.074
0	69	9.186	9.135	-0.051
0	70	9.236	9.091	-0.145
3	1	9.146	9.033	-0.113
3	2	9.167	8.910	-0.257
3	3	9.234	8.845	-0.389
3	4	9.139	8.712	-0.427
3	5	9.133	8.812	-0.321
5	6	9.190	8.830	-0.360
5	7	9.198	8.848	-0.350
5	8	9.191	8.823	-0.368
5	9	9.262	8.902	-0.360
5	10	9.282	8.823	-0.459
10	11	9.189	9.001	-0.188
10	12	9.161	9.004	-0.157
10	13	9.190	8.972	-0.218
10	14	9.174	9.048	-0.126
10	15	9.159	8.956	-0.203
15	16	9.158	8.926	-0.232
15	17	9.047	8.758	-0.289
15	19	9.210	8.972	-0.238
15	20	9.148	9.006	-0.142
15	21	9.187	8.977	-0.210
30	22	9.150	9.037	-0.113
30	23	9.117	9.058	-0.059
30	24	9.136	9.138	0.002
30	25	9.102	9.073	-0.029
30	26	9.100	9.123	0.023
35	27	9.187	9.168	-0.019
35	28	9.038	9.051	0.013
35	29	9.154	9.160	0.006
35	30	9.084	9.115	0.031
35	31	9.066	9.011	-0.055
50	32	9.111	9.127	0.016
50	33	9.130	9.165	0.035
50	34	9.046	9.061	0.015
50	35	9.035	9.105	0.070
50	36	9.065	9.055	-0.010
55	37	9.081	9.026	-0.055
55	38	9.150	9.113	-0.037
55	39	9.127	9.100	-0.027
55	40	9.125	9.100	-0.025
55	41	9.175	9.208	0.033
100	42	9.084	9.207	0.123
100	43	8.961	9.050	0.089
100	44	8.971	9.104	0.133
100	45	8.975	9.126	0.151
100	46	8.971	9.035	0.064
105	47	9.014	9.055	0.041
105	48	9.073	9.050	-0.023
105	49	9.133	9.177	0.044
105	50	9.094	9.105	0.011
105	51	9.063	9.076	0.013
Max		9.282	9.208	0.151
Average		9.123	9.027	-0.096
Min		8.961	8.712	-0.459
Std Dev		0.075	0.118	0.159



	9.6_T_SYNC_FALL_200kHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.074	8.712	8.823	8.956	8.758	9.037	9.011	9.055	9.026	9.035	9.050
Average	9.100	8.862	8.845	8.996	8.928	9.086	9.101	9.103	9.109	9.104	9.093
Max	9.135	9.033	8.902	9.048	9.006	9.138	9.168	9.165	9.208	9.207	9.177
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

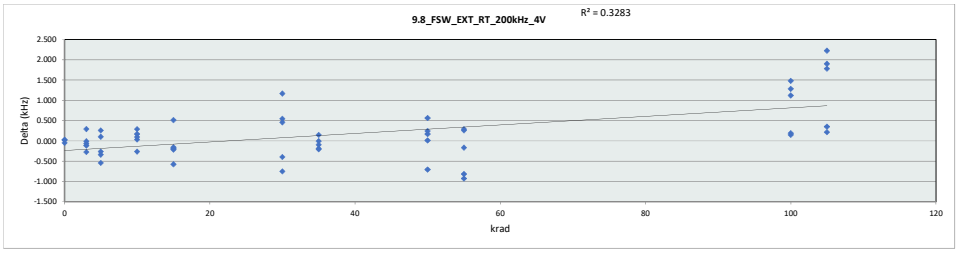


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

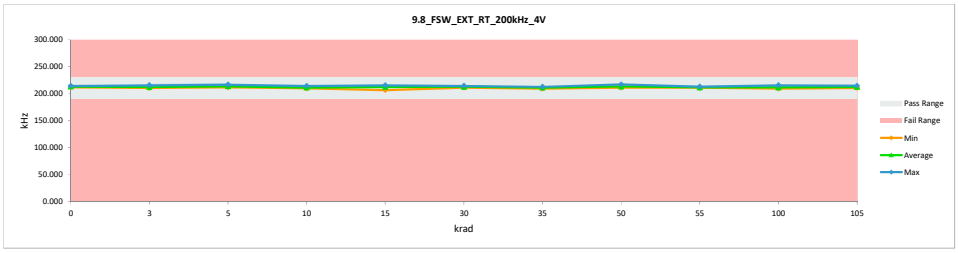
	9.8_FSW_EXT_RT_200kHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	213.788	213.735	-0.053
0	69	211.546	211.566	0.020
0	70	214.090	214.116	0.026
3	1	210.812	210.536	-0.276
3	2	210.330	210.619	0.289
3	3	211.990	211.872	-0.118
3	4	212.637	212.626	-0.011
3	5	215.191	215.122	-0.069
5	6	216.291	216.546	0.255
5	7	214.127	213.786	-0.341
5	8	213.680	213.135	-0.545
5	9	212.072	211.805	-0.267
5	10	211.757	211.855	0.098
10	11	210.214	210.247	0.033
10	12	209.454	209.621	0.167
10	13	213.102	213.196	0.094
10	14	214.305	214.040	-0.265
10	15	209.758	210.045	0.287
15	16	206.826	206.608	-0.218
15	17	215.315	215.155	-0.160
15	19	215.395	215.203	-0.192
15	20	211.480	210.900	-0.580
15	21	214.372	214.881	0.509
30	22	212.994	212.595	-0.399
30	23	210.680	211.221	0.541
30	24	212.724	213.178	0.454
30	25	213.155	214.319	1.164
30	26	213.594	212.841	-0.753
35	27	210.977	210.784	-0.193
35	28	212.693	212.594	-0.099
35	29	211.605	211.597	-0.008
35	30	209.479	209.271	-0.208
35	31	211.046	211.191	0.145
50	32	211.445	211.453	0.008
50	33	211.907	212.469	0.562
50	34	213.015	213.181	0.166
50	35	213.198	212.490	-0.708
50	36	216.676	216.919	0.243
55	37	213.836	212.906	-0.930
55	38	212.072	212.327	0.255
55	39	210.528	210.815	0.287
55	40	211.776	210.957	-0.819
55	41	211.431	211.262	-0.169
100	42	209.494	209.681	0.187
100	43	214.030	215.309	1.279
100	44	210.363	211.481	1.118
100	45	210.551	212.028	1.477
100	46	209.180	209.323	0.143
105	47	213.018	213.229	0.211
105	48	212.490	214.386	1.896
105	49	210.740	212.960	2.220
105	50	210.080	211.857	1.777
105	51	210.335	210.683	0.348
Max		216.676	216.919	2.220
Average		212.144	212.312	0.168
Min		206.826	206.608	-0.930
Std Dev		1.975	1.968	0.657



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	211.566	210.536	211.805	209.621	206.608	211.221	209.271	211.453	210.815	209.323	210.683
Average	213.139	212.155	213.425	211.430	212.549	212.831	211.087	213.302	211.653	211.564	212.623
Max	214.116	215.122	216.546	214.040	215.203	214.319	212.594	216.919	212.906	215.309	214.386
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

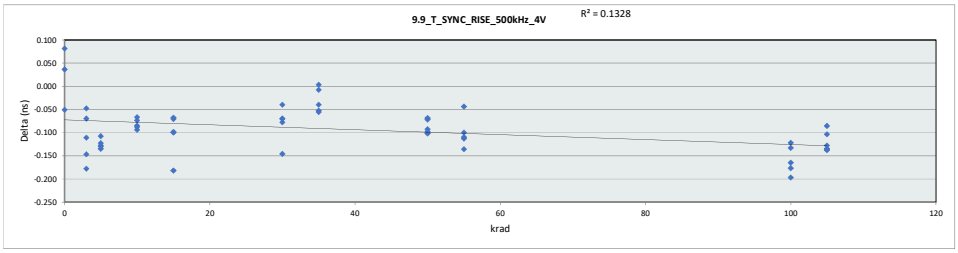


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

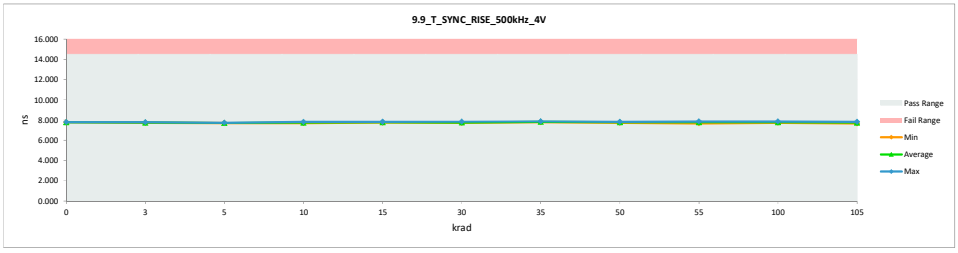
	9.9_T_SYNC_RISE_500kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.735	7.771	0.036
0	69	7.715	7.796	0.081
0	70	7.827	7.776	-0.051
3	1	7.808	7.738	-0.070
3	2	7.801	7.753	-0.048
3	3	7.903	7.792	-0.111
3	4	7.903	7.725	-0.178
3	5	7.868	7.721	-0.147
5	6	7.829	7.699	-0.130
5	7	7.833	7.725	-0.108
5	8	7.843	7.715	-0.128
5	9	7.853	7.730	-0.123
5	10	7.824	7.689	-0.135
10	11	7.883	7.816	-0.067
10	12	7.777	7.692	-0.085
10	13	7.783	7.709	-0.074
10	14	7.868	7.774	-0.094
10	15	7.812	7.724	-0.088
15	16	7.847	7.748	-0.099
15	17	7.925	7.743	-0.182
15	19	7.826	7.755	-0.071
15	20	7.898	7.830	-0.068
15	21	7.863	7.763	-0.100
30	22	7.877	7.731	-0.146
30	23	7.774	7.704	-0.070
30	24	7.916	7.838	-0.078
30	25	7.828	7.788	-0.040
30	26	7.835	7.764	-0.071
35	27	7.875	7.867	-0.008
35	28	7.835	7.782	-0.053
35	29	7.813	7.816	0.003
35	30	7.890	7.850	-0.040
35	31	7.856	7.800	-0.056
50	32	7.865	7.796	-0.069
50	33	7.893	7.821	-0.072
50	34	7.866	7.773	-0.093
50	35	7.819	7.721	-0.098
50	36	7.897	7.795	-0.102
55	37	7.807	7.671	-0.136
55	38	7.918	7.808	-0.110
55	39	7.909	7.865	-0.044
55	40	7.861	7.761	-0.100
55	41	7.959	7.846	-0.113
100	42	7.972	7.839	-0.133
100	43	7.934	7.737	-0.197
100	44	7.909	7.732	-0.177
100	45	7.981	7.859	-0.122
100	46	7.959	7.794	-0.165
105	47	7.763	7.659	-0.104
105	48	7.900	7.765	-0.135
105	49	7.913	7.827	-0.086
105	50	7.848	7.720	-0.128
105	51	7.895	7.757	-0.138
Max		7.981	7.867	0.081
Average		7.860	7.767	-0.093
Min		7.715	7.659	-0.197
Std Dev		0.058	0.052	0.052



	9.9_T_SYNC_RISE_500kHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14.5	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.771	7.721	7.689	7.692	7.743	7.704	7.782	7.721	7.671	7.732	7.659
Average	7.781	7.746	7.712	7.743	7.768	7.765	7.823	7.781	7.790	7.792	7.746
Max	7.796	7.792	7.730	7.816	7.830	7.838	7.867	7.821	7.865	7.859	7.827
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

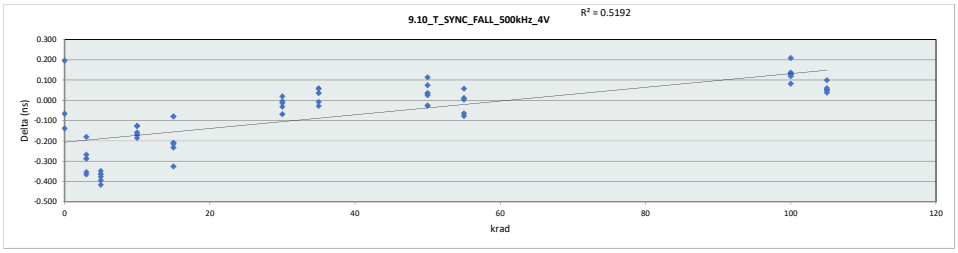


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

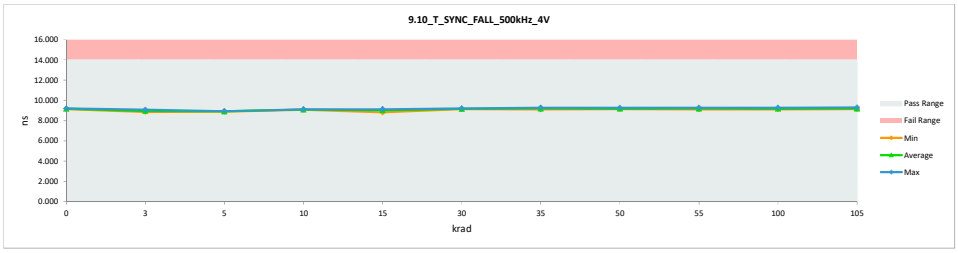
	9.10_T_SYNC_FALL_500kHz_4	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	9.008	9.204	0.196
0	69	9.248	9.182	-0.066
0	70	9.291	9.152	-0.139
3	1	9.254	9.073	-0.181
3	2	9.253	8.985	-0.268
3	3	9.254	8.966	-0.288
3	4	9.227	8.861	-0.366
3	5	9.230	8.876	-0.354
5	6	9.279	8.902	-0.377
5	7	9.322	8.927	-0.395
5	8	9.256	8.892	-0.364
5	9	9.335	8.918	-0.417
5	10	9.285	8.937	-0.348
10	11	9.247	9.121	-0.126
10	12	9.209	9.082	-0.127
10	13	9.281	9.095	-0.186
10	14	9.269	9.099	-0.170
10	15	9.230	9.071	-0.159
15	16	9.237	9.022	-0.215
15	17	9.137	8.811	-0.326
15	19	9.297	9.088	-0.209
15	20	9.199	9.119	-0.080
15	21	9.299	9.066	-0.233
30	22	9.205	9.136	-0.069
30	23	9.183	9.151	-0.032
30	24	9.215	9.210	-0.005
30	25	9.155	9.141	-0.014
30	26	9.177	9.196	0.019
35	27	9.247	9.282	0.035
35	28	9.136	9.128	-0.008
35	29	9.180	9.237	0.057
35	30	9.160	9.218	0.058
35	31	9.132	9.104	-0.028
50	32	9.132	9.245	0.113
50	33	9.191	9.265	0.074
50	34	9.105	9.130	0.025
50	35	9.140	9.175	0.035
50	36	9.169	9.143	-0.026
55	37	9.169	9.105	-0.064
55	38	9.259	9.182	-0.077
55	39	9.143	9.200	0.057
55	40	9.220	9.231	0.011
55	41	9.275	9.278	0.003
100	42	9.160	9.279	0.119
100	43	9.046	9.128	0.082
100	44	9.033	9.169	0.136
100	45	9.036	9.244	0.208
100	46	9.010	9.135	0.125
105	47	9.108	9.146	0.038
105	48	9.113	9.165	0.052
105	49	9.194	9.293	0.099
105	50	9.152	9.211	0.059
105	51	9.137	9.185	0.048
Max		9.335	9.293	0.208
Average		9.193	9.116	-0.077
Min		9.008	8.811	-0.417
Std Dev		0.080	0.120	0.168



	9.10_T_SYNC_FALL_500kHz_4	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.152	8.861	8.892	9.071	8.811	9.136	9.104	9.130	9.105	9.128	9.146
Average	9.179	8.952	8.915	9.094	9.021	9.167	9.194	9.192	9.199	9.191	9.200
Max	9.204	9.073	8.937	9.121	9.119	9.210	9.282	9.265	9.278	9.279	9.293
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

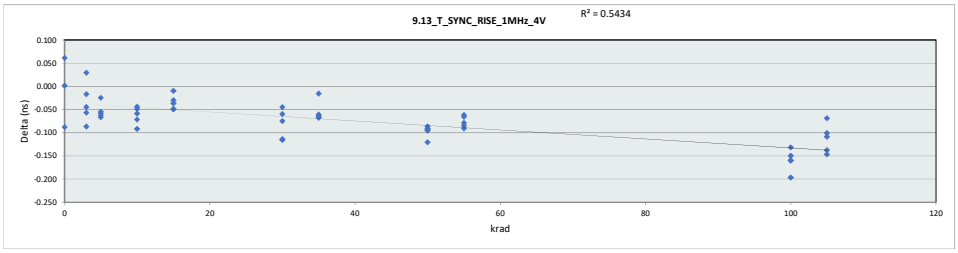


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

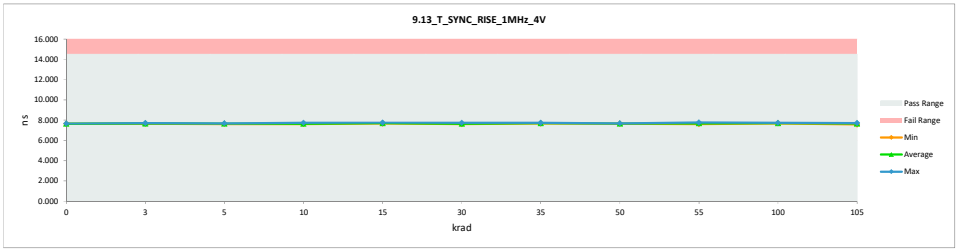
	9.13_T_SYNC_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.585	7.646	0.061
0	69	7.663	7.664	0.001
0	70	7.724	7.636	-0.088
3	1	7.657	7.686	0.029
3	2	7.669	7.652	-0.017
3	3	7.764	7.719	-0.045
3	4	7.759	7.672	-0.087
3	5	7.732	7.675	-0.057
5	6	7.730	7.672	-0.058
5	7	7.722	7.697	-0.025
5	8	7.724	7.661	-0.063
5	9	7.756	7.689	-0.067
5	10	7.680	7.625	-0.055
10	11	7.787	7.738	-0.049
10	12	7.676	7.632	-0.044
10	13	7.669	7.610	-0.059
10	14	7.748	7.656	-0.092
10	15	7.712	7.640	-0.072
15	16	7.729	7.679	-0.050
15	17	7.698	7.688	-0.010
15	19	7.700	7.663	-0.037
15	20	7.790	7.760	-0.030
15	21	7.776	7.727	-0.049
30	22	7.748	7.634	-0.114
30	23	7.712	7.637	-0.075
30	24	7.798	7.738	-0.060
30	25	7.719	7.603	-0.116
30	26	7.723	7.678	-0.045
35	27	7.798	7.737	-0.061
35	28	7.731	7.664	-0.067
35	29	7.694	7.678	-0.016
35	30	7.805	7.737	-0.068
35	31	7.751	7.687	-0.064
50	32	7.793	7.672	-0.121
50	33	7.767	7.671	-0.096
50	34	7.751	7.659	-0.092
50	35	7.739	7.646	-0.093
50	36	7.779	7.692	-0.087
55	37	7.666	7.600	-0.066
55	38	7.792	7.707	-0.085
55	39	7.813	7.751	-0.062
55	40	7.721	7.642	-0.079
55	41	7.855	7.764	-0.091
100	42	7.897	7.747	-0.150
100	43	7.871	7.674	-0.197
100	44	7.821	7.689	-0.132
100	45	7.892	7.732	-0.160
100	46	7.837	7.677	-0.160
105	47	7.715	7.568	-0.147
105	48	7.778	7.709	-0.069
105	49	7.831	7.722	-0.109
105	50	7.737	7.636	-0.101
105	51	7.804	7.666	-0.138
Max		7.897	7.764	0.061
Average		7.751	7.677	-0.073
Min		7.585	7.568	-0.197
Std Dev		0.063	0.043	0.047



	9.13_T_SYNC_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14.5	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.636	7.652	7.625	7.610	7.663	7.603	7.664	7.646	7.600	7.674	7.568
Average	7.649	7.681	7.669	7.655	7.703	7.658	7.701	7.668	7.693	7.704	7.660
Max	7.664	7.719	7.697	7.738	7.760	7.738	7.737	7.692	7.764	7.747	7.722
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

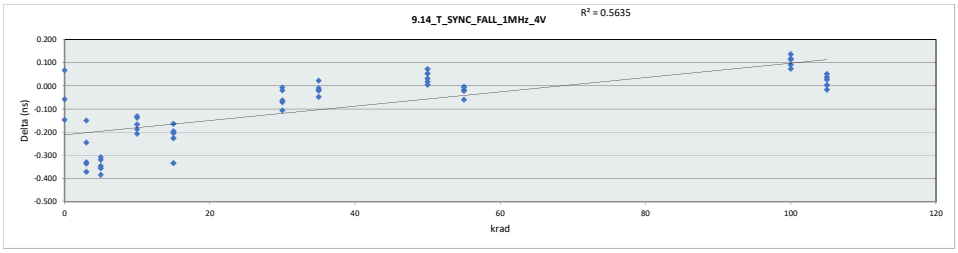


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

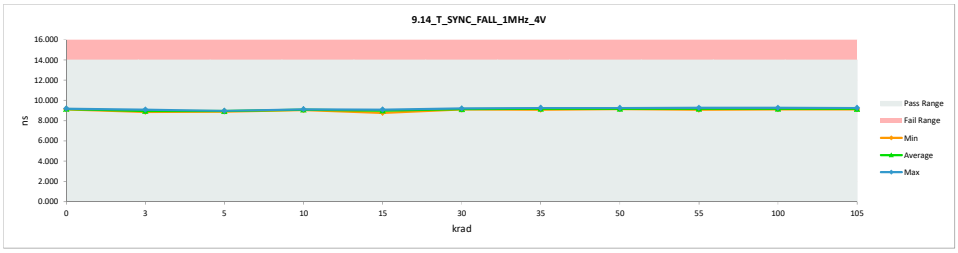
	9.14_T_SYNC_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	9.085	9.152	0.067
0	69	9.243	9.185	-0.058
0	70	9.272	9.125	-0.147
3	1	9.232	9.082	-0.150
3	2	9.235	8.990	-0.245
3	3	9.295	8.965	-0.330
3	4	9.235	8.864	-0.371
3	5	9.207	8.871	-0.336
5	6	9.255	8.909	-0.346
5	7	9.272	8.964	-0.308
5	8	9.250	8.931	-0.319
5	9	9.325	8.969	-0.356
5	10	9.326	8.942	-0.384
10	11	9.258	9.120	-0.138
10	12	9.256	9.049	-0.207
10	13	9.246	9.079	-0.167
10	14	9.234	9.103	-0.131
10	15	9.226	9.038	-0.188
15	16	9.206	8.980	-0.226
15	17	9.108	8.774	-0.334
15	19	9.270	9.065	-0.205
15	20	9.217	9.053	-0.164
15	21	9.280	9.084	-0.196
30	22	9.199	9.093	-0.106
30	23	9.183	9.112	-0.071
30	24	9.226	9.206	-0.020
30	25	9.167	9.104	-0.063
30	26	9.179	9.171	-0.008
35	27	9.270	9.249	-0.021
35	28	9.148	9.129	-0.019
35	29	9.210	9.200	-0.010
35	30	9.172	9.194	0.022
35	31	9.130	9.082	-0.048
50	32	9.167	9.198	0.031
50	33	9.181	9.253	0.072
50	34	9.105	9.158	0.053
50	35	9.125	9.142	0.017
50	36	9.138	9.142	0.004
55	37	9.134	9.074	-0.060
55	38	9.185	9.178	-0.007
55	39	9.166	9.148	-0.018
55	40	9.209	9.187	-0.022
55	41	9.264	9.260	-0.004
100	42	9.175	9.265	0.090
100	43	9.048	9.121	0.073
100	44	9.031	9.167	0.136
100	45	9.080	9.197	0.117
100	46	9.013	9.126	0.113
105	47	9.113	9.139	0.026
105	48	9.122	9.159	0.037
105	49	9.198	9.249	0.051
105	50	9.135	9.138	0.003
105	51	9.146	9.129	-0.017
	Max	9.326	9.265	0.136
	Average	9.192	9.099	-0.092
	Min	9.013	8.774	-0.384
	Std Dev	0.072	0.109	0.147



	9.14_T_SYNC_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.125	8.864	8.909	9.038	8.774	9.093	9.082	9.142	9.074	9.121	9.129
Average	9.154	8.954	8.943	9.078	8.991	9.137	9.171	9.179	9.169	9.175	9.163
Max	9.185	9.082	8.969	9.120	9.084	9.206	9.249	9.253	9.260	9.265	9.249
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

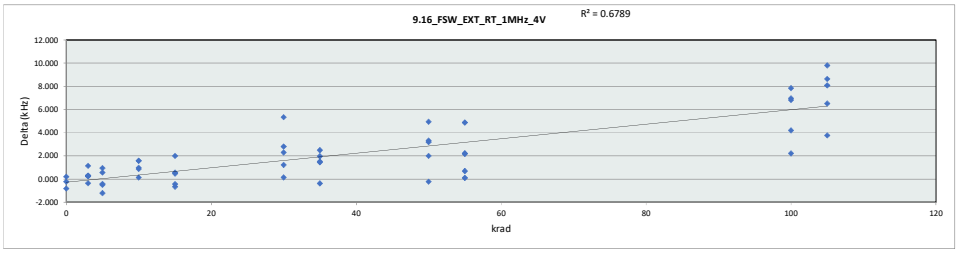


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

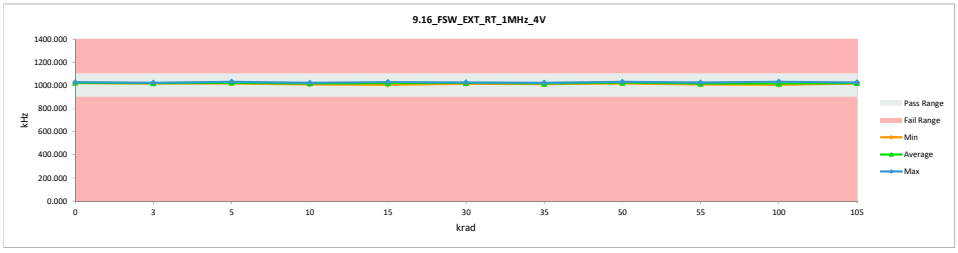
	9.16_FSW_EXT_RT_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1027.427	1026.596	-0.831
0	69	1017.791	1017.544	-0.247
0	70	1024.434	1024.622	0.188
3	1	1016.568	1016.194	-0.374
3	2	1017.096	1018.222	1.126
3	3	1017.519	1017.795	0.276
3	4	1016.675	1016.954	0.279
3	5	1022.732	1022.948	0.216
5	6	1029.336	1030.272	0.936
5	7	1023.091	1022.659	-0.432
5	8	1027.012	1025.781	-1.231
5	9	1017.682	1017.163	-0.519
5	10	1019.777	1020.331	0.554
10	11	1007.222	1008.074	0.852
10	12	1020.568	1021.529	0.961
10	13	1020.682	1022.245	1.563
10	14	1021.944	1022.065	0.121
10	15	1011.069	1012.627	1.558
15	16	1004.443	1004.991	0.548
15	17	1025.987	1026.447	0.460
15	19	1028.763	1028.318	-0.445
15	20	1010.349	1009.675	-0.674
15	21	1020.587	1022.572	1.985
30	22	1017.598	1018.799	1.201
30	23	1017.941	1020.726	2.785
30	24	1011.615	1013.897	2.282
30	25	1020.206	1025.526	5.320
30	26	1022.543	1022.670	0.127
35	27	1016.063	1015.672	-0.391
35	28	1019.653	1021.082	1.429
35	29	1016.951	1018.449	1.498
35	30	1006.605	1009.076	2.471
35	31	1010.267	1012.222	1.955
50	32	1013.954	1017.270	3.316
50	33	1018.113	1023.042	4.929
50	34	1020.667	1023.838	3.171
50	35	1024.959	1024.720	-0.239
50	36	1027.749	1029.734	1.985
55	37	1023.313	1023.984	0.671
55	38	1015.925	1018.097	2.172
55	39	1003.406	1008.268	4.862
55	40	1018.681	1018.766	0.085
55	41	1011.432	1013.630	2.198
100	42	1003.630	1005.831	2.201
100	43	1024.672	1031.624	6.952
100	44	1010.747	1018.574	7.827
100	45	1007.219	1014.015	6.796
100	46	1005.094	1009.274	4.180
105	47	1021.188	1024.939	3.751
105	48	1016.258	1024.323	8.065
105	49	1008.659	1018.444	9.785
105	50	1008.108	1016.722	8.614
105	51	1008.804	1015.305	6.501
	Max	1029.336	1031.624	9.785
	Average	1016.996	1019.135	2.139
	Min	1003.406	1004.991	-1.231
	Std Dev	7.009	6.320	2.718



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000
Min	1017.544	1016.194	1017.163	1008.074	1004.991	1013.897	1009.076	1017.270	1008.268	1005.831	1015.305
Average	1022.921	1018.423	1023.241	1017.308	1018.401	1020.324	1015.300	1023.721	1016.549	1015.864	1019.947
Max	1026.596	1022.948	1030.272	1022.245	1028.318	1025.526	1021.082	1029.734	1023.984	1031.624	1024.939
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

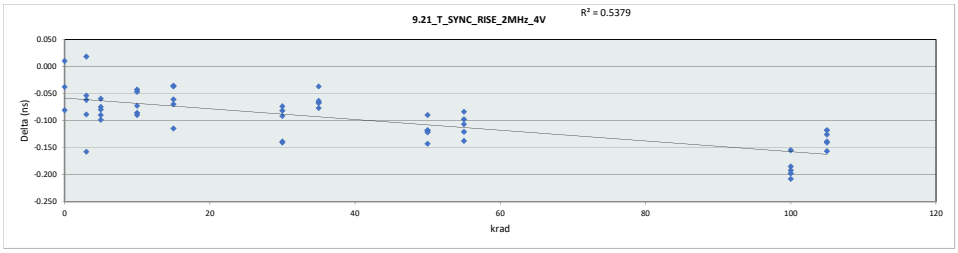


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

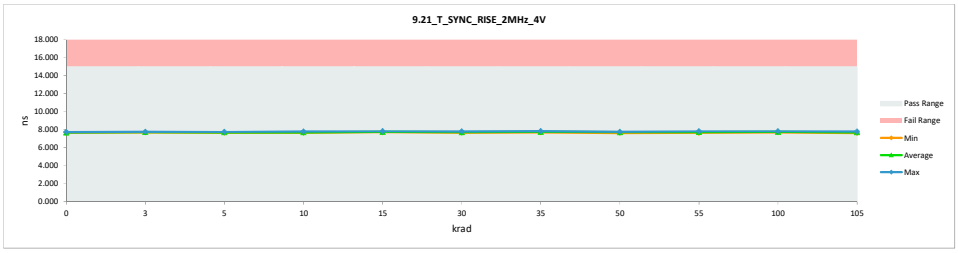
	9.21_T_SYNC_RISE_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	15
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.654	7.664	0.010
0	69	7.758	7.677	-0.081
0	70	7.772	7.734	-0.038
3	1	7.743	7.761	0.018
3	2	7.756	7.694	-0.062
3	3	7.851	7.762	-0.089
3	4	7.845	7.687	-0.158
3	5	7.775	7.721	-0.054
5	6	7.769	7.694	-0.075
5	7	7.820	7.730	-0.090
5	8	7.777	7.697	-0.080
5	9	7.798	7.738	-0.060
5	10	7.749	7.650	-0.099
10	11	7.875	7.789	-0.086
10	12	7.728	7.638	-0.090
10	13	7.713	7.670	-0.043
10	14	7.770	7.723	-0.047
10	15	7.775	7.702	-0.073
15	16	7.830	7.715	-0.115
15	17	7.813	7.743	-0.070
15	19	7.752	7.716	-0.036
15	20	7.879	7.818	-0.061
15	21	7.818	7.781	-0.037
30	22	7.819	7.678	-0.141
30	23	7.792	7.653	-0.139
30	24	7.890	7.808	-0.082
30	25	7.822	7.748	-0.074
30	26	7.774	7.682	-0.092
35	27	7.864	7.800	-0.064
35	28	7.749	7.712	-0.037
35	29	7.765	7.697	-0.068
35	30	7.903	7.836	-0.067
35	31	7.813	7.736	-0.077
50	32	7.841	7.751	-0.090
50	33	7.847	7.729	-0.118
50	34	7.839	7.717	-0.122
50	35	7.771	7.628	-0.143
50	36	7.855	7.736	-0.119
55	37	7.720	7.636	-0.084
55	38	7.857	7.759	-0.098
55	39	7.917	7.810	-0.107
55	40	7.801	7.680	-0.121
55	41	7.912	7.774	-0.138
100	42	7.987	7.789	-0.198
100	43	7.896	7.704	-0.192
100	44	7.902	7.694	-0.208
100	45	7.977	7.822	-0.155
100	46	7.937	7.752	-0.185
105	47	7.752	7.634	-0.118
105	48	7.870	7.729	-0.141
105	49	7.908	7.782	-0.126
105	50	7.798	7.659	-0.139
105	51	7.879	7.722	-0.157
Max		7.987	7.836	0.018
Average		7.820	7.724	-0.097
Min		7.654	7.628	-0.208
Std Dev		0.069	0.053	0.048



	9.21_T_SYNC_RISE_2MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	15	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.664	7.687	7.650	7.638	7.715	7.653	7.697	7.628	7.636	7.694	7.634
Average	7.692	7.725	7.702	7.704	7.755	7.714	7.756	7.712	7.732	7.752	7.705
Max	7.734	7.762	7.738	7.789	7.818	7.808	7.836	7.751	7.810	7.822	7.782
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000

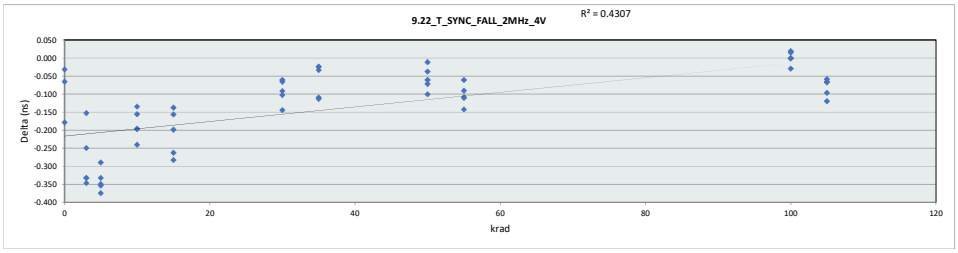


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

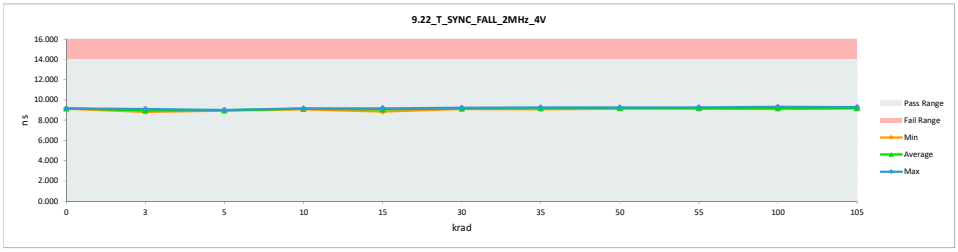
	9.22_T_SYNC_FALL_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	9.192	9.160	-0.032
0	69	9.226	9.160	-0.066
0	70	9.311	9.132	-0.179
3	1	9.261	9.108	-0.153
3	2	9.272	9.022	-0.250
3	3	9.294	8.961	-0.333
3	4	9.156	8.823	-0.333
3	5	9.242	8.895	-0.347
5	6	9.229	8.939	-0.290
5	7	9.305	8.972	-0.333
5	8	9.345	8.995	-0.350
5	9	9.362	8.987	-0.375
5	10	9.371	9.017	-0.354
10	11	9.357	9.160	-0.197
10	12	9.316	9.119	-0.197
10	13	9.314	9.158	-0.156
10	14	9.283	9.148	-0.135
10	15	9.324	9.083	-0.241
15	16	9.263	9.000	-0.263
15	17	9.123	8.840	-0.283
15	19	9.347	9.148	-0.199
15	20	9.284	9.127	-0.157
15	21	9.318	9.180	-0.138
30	22	9.239	9.094	-0.145
30	23	9.262	9.159	-0.103
30	24	9.292	9.226	-0.066
30	25	9.245	9.153	-0.092
30	26	9.245	9.184	-0.061
35	27	9.289	9.255	-0.034
35	28	9.205	9.180	-0.025
35	29	9.292	9.182	-0.110
35	30	9.251	9.227	-0.024
35	31	9.189	9.075	-0.114
50	32	9.266	9.254	-0.012
50	33	9.309	9.208	-0.101
50	34	9.208	9.147	-0.061
50	35	9.250	9.212	-0.038
50	36	9.235	9.163	-0.072
55	37	9.269	9.126	-0.143
55	38	9.288	9.179	-0.109
55	39	9.258	9.197	-0.061
55	40	9.309	9.198	-0.111
55	41	9.365	9.274	-0.091
100	42	9.320	9.318	-0.002
100	43	9.141	9.111	-0.030
100	44	9.147	9.162	0.015
100	45	9.200	9.219	0.019
100	46	9.177	9.177	0.000
105	47	9.231	9.165	-0.066
105	48	9.265	9.197	-0.068
105	49	9.342	9.283	-0.059
105	50	9.300	9.180	-0.120
105	51	9.258	9.161	-0.097
Max		9.371	9.318	0.019
Average		9.267	9.128	-0.139
Min		9.123	8.823	-0.375
Std Dev		0.059	0.108	0.110



	9.22_T_SYNC_FALL_2MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	9.132	8.823	8.939	9.083	8.840	9.094	9.075	9.147	9.126	9.111	9.161
Average	9.151	8.962	8.982	9.134	9.059	9.163	9.184	9.197	9.195	9.197	9.197
Max	9.160	9.108	9.017	9.160	9.180	9.226	9.255	9.254	9.274	9.318	9.283
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

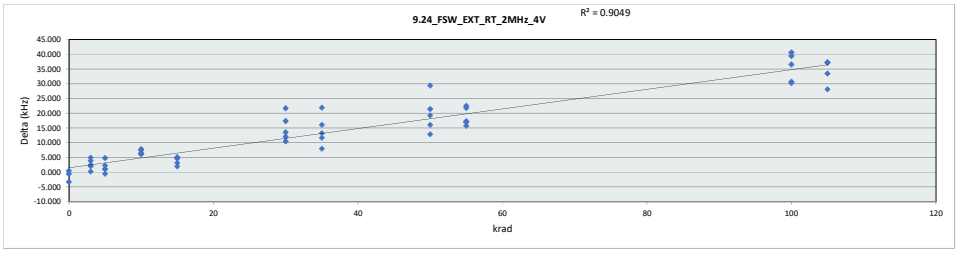


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

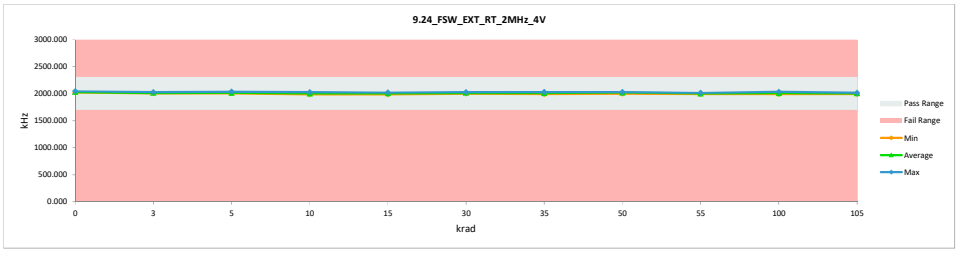
	9.24_FSW_EXT_RT_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2046.221	2042.863	-3.358
0	69	2024.553	2023.908	-0.645
0	70	2025.236	2025.688	0.452
3	1	2003.983	2005.920	1.937
3	2	2006.129	2011.038	4.909
3	3	2013.217	2013.413	0.196
3	4	2023.055	2025.486	2.431
3	5	2001.795	2005.603	3.808
5	6	2030.800	2035.552	4.752
5	7	2008.532	2009.561	1.029
5	8	2010.305	2009.706	-0.599
5	9	2015.656	2016.647	0.991
5	10	2004.831	2007.040	2.209
10	11	1978.446	1984.577	6.131
10	12	1998.124	2005.533	7.409
10	13	2019.032	2026.817	7.785
10	14	1998.053	2004.143	6.090
10	15	1988.868	1995.312	6.444
15	16	1989.252	1992.378	3.126
15	17	2015.365	2020.422	5.057
15	19	2014.593	2016.491	1.898
15	20	1981.707	1986.292	4.585
15	21	2003.795	2008.697	4.902
30	22	2005.227	2017.219	11.992
30	23	1997.783	2019.401	21.618
30	24	1985.762	1999.222	13.460
30	25	2008.241	2025.534	17.293
30	26	1993.398	2003.812	10.414
35	27	2005.510	2013.438	7.928
35	28	1986.634	1998.227	11.593
35	29	2007.466	2029.302	21.836
35	30	1979.901	1993.057	13.156
35	31	1997.958	2013.950	15.992
50	32	1977.700	1996.909	19.209
50	33	2005.771	2027.107	21.336
50	34	1998.958	2028.267	29.309
50	35	2005.692	2018.518	12.826
50	36	2010.626	2026.616	15.990
55	37	1996.899	2014.138	17.239
55	38	1987.456	2009.219	21.763
55	39	1967.609	1990.047	22.438
55	40	1991.499	2007.173	15.674
55	41	1977.653	1994.548	16.895
100	42	1969.567	2000.223	30.656
100	43	1993.575	2032.909	39.334
100	44	1984.109	2020.584	36.475
100	45	1957.569	1998.108	40.539
100	46	1961.017	1991.187	30.170
105	47	1981.396	2009.448	28.052
105	48	1975.635	2012.636	37.001
105	49	1954.749	1991.863	37.114
105	50	1963.725	2000.992	37.267
105	51	1981.764	2015.154	33.390
Max		2046.221	2042.863	40.539
Average		1996.460	2010.790	14.330
Min		1954.749	1984.577	-3.358
Std Dev		19.317	13.550	12.513



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000
Min	2023.908	2005.603	2007.040	1984.577	1986.292	1999.222	1993.057	1996.909	1990.047	1991.187	1991.863
Average	2030.820	2012.292	2015.701	2003.276	2004.856	2013.038	2009.595	2019.483	2003.025	2008.602	2006.019
Max	2042.863	2025.486	2035.552	2026.817	2020.422	2025.534	2029.302	2028.267	2014.138	2032.909	2015.154
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

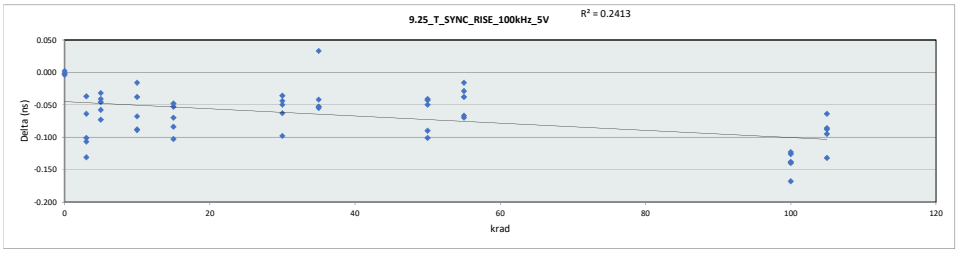


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

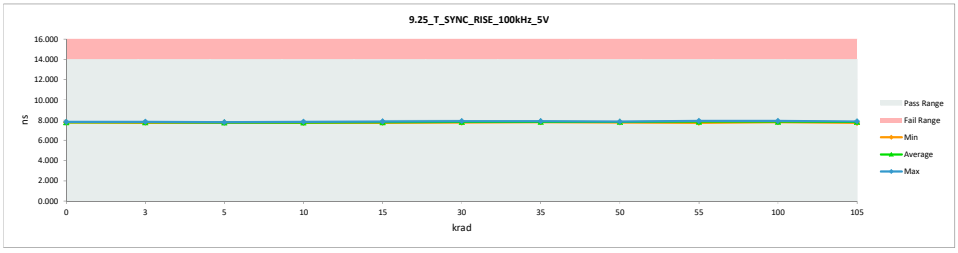
	9.25_T_SYNC_RISE_100kHz_5	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.764	7.760	-0.004
0	69	7.817	7.815	-0.002
0	70	7.778	7.780	0.002
3	1	7.835	7.798	-0.037
3	2	7.828	7.764	-0.064
3	3	7.925	7.824	-0.101
3	4	7.868	7.737	-0.131
3	5	7.852	7.745	-0.107
5	6	7.812	7.780	-0.032
5	7	7.820	7.779	-0.041
5	8	7.808	7.762	-0.046
5	9	7.829	7.756	-0.073
5	10	7.793	7.735	-0.058
10	11	7.920	7.832	-0.088
10	12	7.805	7.716	-0.089
10	13	7.766	7.728	-0.038
10	14	7.796	7.780	-0.016
10	15	7.848	7.780	-0.068
15	16	7.902	7.818	-0.084
15	17	7.837	7.734	-0.103
15	19	7.808	7.760	-0.048
15	20	7.919	7.849	-0.070
15	21	7.872	7.819	-0.053
30	22	7.845	7.782	-0.063
30	23	7.844	7.746	-0.098
30	24	7.931	7.895	-0.036
30	25	7.885	7.841	-0.044
30	26	7.847	7.797	-0.050
35	27	7.925	7.872	-0.053
35	28	7.762	7.795	0.033
35	29	7.834	7.792	-0.042
35	30	7.932	7.879	-0.053
35	31	7.866	7.811	-0.055
50	32	7.907	7.806	-0.101
50	33	7.886	7.843	-0.043
50	34	7.892	7.802	-0.090
50	35	7.816	7.766	-0.050
50	36	7.855	7.814	-0.041
55	37	7.736	7.720	-0.016
55	38	7.929	7.891	-0.038
55	39	7.943	7.876	-0.067
55	40	7.859	7.789	-0.070
55	41	7.931	7.902	-0.029
100	42	8.033	7.910	-0.123
100	43	7.933	7.793	-0.140
100	44	7.941	7.803	-0.138
100	45	8.037	7.869	-0.168
100	46	7.972	7.846	-0.126
105	47	7.781	7.717	-0.064
105	48	7.931	7.799	-0.132
105	49	7.958	7.870	-0.088
105	50	7.887	7.792	-0.095
105	51	7.900	7.814	-0.086
Max		8.037	7.910	0.033
Average		7.868	7.802	-0.066
Min		7.736	7.716	-0.168
Std Dev		0.067	0.051	0.040



	9.25_T_SYNC_RISE_100kHz_5	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.760	7.737	7.735	7.716	7.734	7.746	7.792	7.766	7.720	7.793	7.717
Average	7.785	7.774	7.762	7.767	7.796	7.812	7.830	7.806	7.836	7.844	7.798
Max	7.815	7.824	7.780	7.832	7.849	7.895	7.879	7.843	7.902	7.910	7.870
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

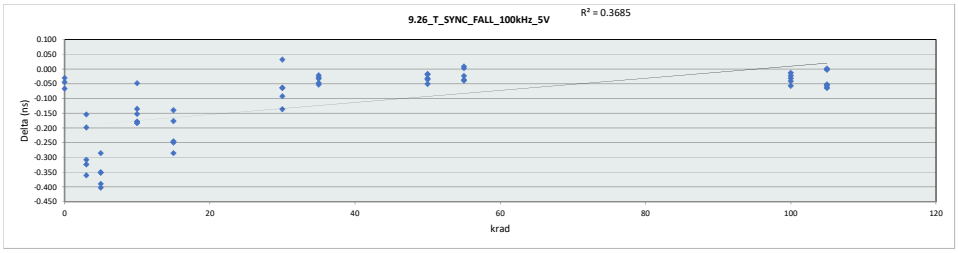


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

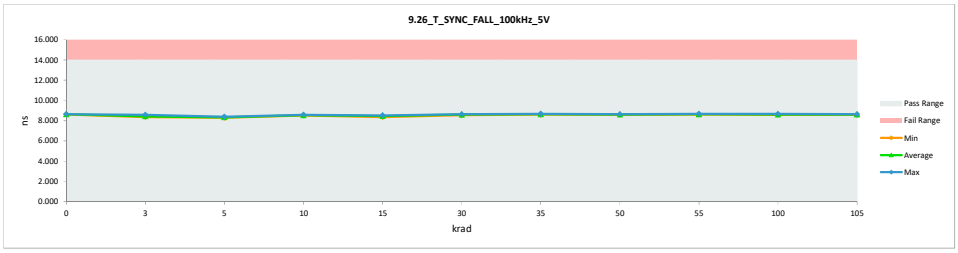
	9.26_T_SYNC_FALL_100kHz_5	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.691	8.646	-0.045
0	69	8.677	8.610	-0.067
0	70	8.679	8.648	-0.031
3	1	8.737	8.582	-0.155
3	2	8.657	8.458	-0.199
3	3	8.707	8.346	-0.361
3	4	8.696	8.372	-0.324
3	5	8.671	8.363	-0.308
5	6	8.669	8.383	-0.286
5	7	8.692	8.341	-0.351
5	8	8.680	8.328	-0.352
5	9	8.716	8.326	-0.390
5	10	8.680	8.277	-0.403
10	11	8.678	8.542	-0.136
10	12	8.686	8.533	-0.153
10	13	8.721	8.537	-0.184
10	14	8.630	8.581	-0.049
10	15	8.698	8.519	-0.179
15	16	8.686	8.436	-0.250
15	17	8.644	8.358	-0.286
15	19	8.680	8.434	-0.246
15	20	8.677	8.500	-0.177
15	21	8.662	8.522	-0.140
30	22	8.667	8.530	-0.137
30	23	8.689	8.596	-0.093
30	24	8.664	8.600	-0.064
30	25	8.690	8.625	-0.065
30	26	8.609	8.640	0.031
35	27	8.663	8.615	-0.048
35	28	8.659	8.630	-0.029
35	29	8.701	8.667	-0.034
35	30	8.700	8.678	-0.022
35	31	8.645	8.591	-0.054
50	32	8.642	8.624	-0.018
50	33	8.675	8.639	-0.036
50	34	8.626	8.607	-0.019
50	35	8.658	8.607	-0.051
50	36	8.620	8.588	-0.032
55	37	8.589	8.597	0.008
55	38	8.647	8.607	-0.040
55	39	8.673	8.675	0.002
55	40	8.654	8.617	-0.037
55	41	8.630	8.606	-0.024
100	42	8.642	8.584	-0.058
100	43	8.597	8.574	-0.023
100	44	8.638	8.606	-0.032
100	45	8.674	8.660	-0.014
100	46	8.660	8.618	-0.042
105	47	8.661	8.603	-0.058
105	48	8.635	8.570	-0.065
105	49	8.631	8.628	-0.003
105	50	8.676	8.623	-0.053
105	51	8.609	8.610	0.001
Max		8.737	8.678	0.031
Average		8.665	8.548	-0.117
Min		8.589	8.277	-0.403
Std Dev		0.031	0.108	0.121



	9.26_T_SYNC_FALL_100kHz_5	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.610	8.346	8.277	8.519	8.358	8.530	8.591	8.588	8.597	8.574	8.570
Average	8.635	8.424	8.331	8.542	8.450	8.598	8.636	8.613	8.620	8.608	8.607
Max	8.648	8.582	8.383	8.581	8.522	8.640	8.678	8.639	8.675	8.660	8.628
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

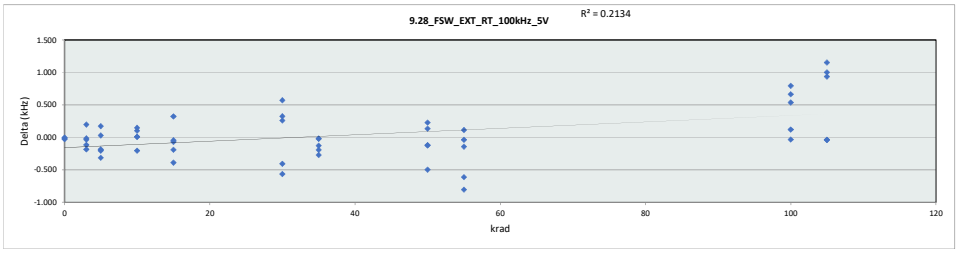


TID HDR Report
TPS7H5002-SP QMLP

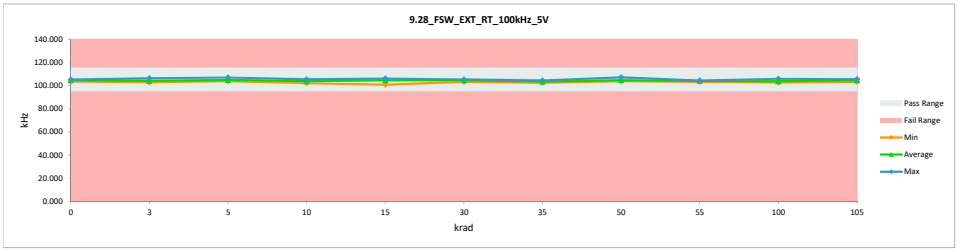
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	9.28_FSW_EXT_RT_100kHz_5	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	104.649	104.628	-0.021
0	69	103.546	103.542	-0.004
0	70	105.140	105.111	-0.029
3	1	103.049	102.862	-0.187
3	2	102.572	102.768	0.196
3	3	103.847	103.729	-0.118
3	4	104.391	104.374	-0.017
3	5	106.164	106.128	-0.036
5	6	106.720	106.891	0.171
5	7	105.202	104.995	-0.207
5	8	104.836	104.521	-0.315
5	9	103.875	103.688	-0.187
5	10	103.894	103.921	0.027
10	11	103.274	103.280	0.006
10	12	101.755	101.856	0.101
10	13	104.610	104.619	0.009
10	14	105.524	105.317	-0.207
10	15	102.674	102.818	0.144
15	16	100.779	100.586	-0.193
15	17	105.875	105.803	-0.072
15	19	106.021	105.974	-0.047
15	20	104.078	103.688	-0.390
15	21	105.594	105.915	0.321
30	22	104.800	104.391	-0.409
30	23	102.830	103.089	0.259
30	24	104.716	105.038	0.322
30	25	104.673	105.242	0.569
30	26	105.151	104.585	-0.566
35	27	102.990	102.966	-0.024
35	28	104.551	104.421	-0.130
35	29	103.834	103.639	-0.195
35	30	102.587	102.313	-0.274
35	31	103.604	103.585	-0.019
50	32	103.787	103.662	-0.125
50	33	103.730	103.955	0.225
50	34	104.466	104.345	-0.121
50	35	104.490	103.990	-0.500
50	36	106.914	107.047	0.133
55	37	105.075	104.268	-0.807
55	38	104.087	104.197	0.110
55	39	103.689	103.649	-0.040
55	40	103.738	103.122	-0.616
55	41	103.936	103.791	-0.145
100	42	102.682	102.800	0.118
100	43	105.099	105.761	0.662
100	44	102.946	103.482	0.536
100	45	103.495	104.287	0.792
100	46	102.451	102.415	-0.036
105	47	104.673	104.631	-0.042
105	48	104.418	105.417	0.999
105	49	103.538	104.690	1.152
105	50	103.109	104.045	0.936
105	51	103.162	103.123	-0.039
	Max	106.914	107.047	1.152
	Average	104.100	104.131	0.032
	Min	100.779	100.586	-0.807
	Std Dev	1.213	1.235	0.385



	9.28_FSW_EXT_RT_100kHz_5V										
Test Site											
Tester											
Test Number											
Max Limit	115	kHz									
Min Limit	95	kHz									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	103.542	102.768	103.688	101.856	100.586	103.089	102.313	103.662	103.122	102.415	103.123
Average	104.427	103.972	104.803	103.578	104.393	104.469	103.385	104.600	103.805	103.749	104.381
Max	105.111	106.128	106.891	105.317	105.974	105.242	104.421	107.047	104.268	105.761	105.417
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

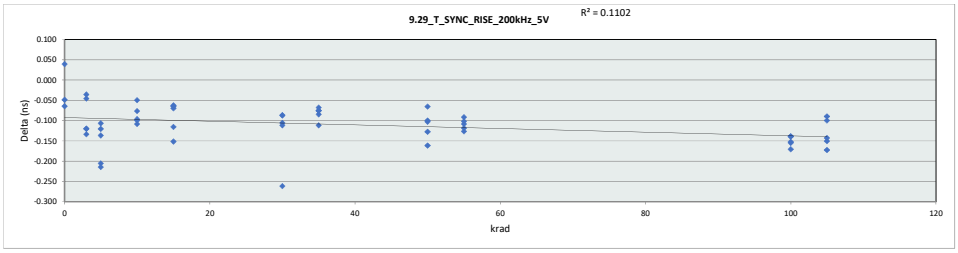


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

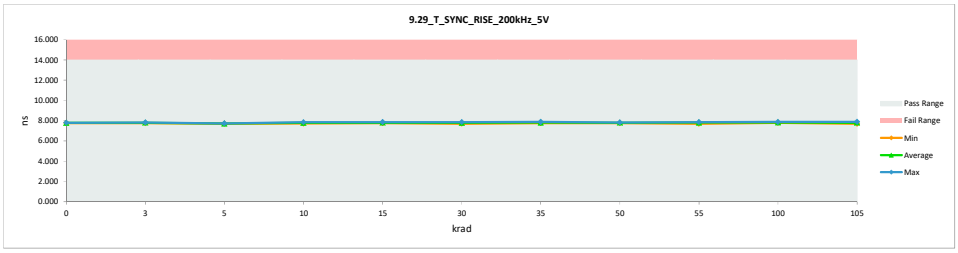
	9.29_T_SYNC_RISE_200kHz_5	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.723	7.762	0.039
0	69	7.826	7.777	-0.049
0	70	7.858	7.793	-0.065
3	1	7.868	7.822	-0.046
3	2	7.803	7.767	-0.036
3	3	7.950	7.816	-0.134
3	4	7.903	7.782	-0.121
3	5	7.869	7.749	-0.120
5	6	7.834	7.713	-0.121
5	7	7.925	7.710	-0.215
5	8	7.910	7.704	-0.206
5	9	7.871	7.734	-0.137
5	10	7.837	7.730	-0.107
10	11	7.952	7.843	-0.109
10	12	7.832	7.732	-0.100
10	13	7.812	7.715	-0.097
10	14	7.887	7.810	-0.077
10	15	7.835	7.785	-0.050
15	16	7.859	7.794	-0.065
15	17	7.903	7.751	-0.152
15	19	7.814	7.751	-0.063
15	20	7.931	7.861	-0.070
15	21	7.925	7.809	-0.116
30	22	7.961	7.699	-0.262
30	23	7.854	7.742	-0.112
30	24	7.950	7.862	-0.088
30	25	7.882	7.776	-0.106
30	26	7.885	7.798	-0.087
35	27	7.930	7.845	-0.085
35	28	7.846	7.770	-0.076
35	29	7.873	7.761	-0.112
35	30	7.941	7.865	-0.076
35	31	7.882	7.814	-0.068
50	32	7.942	7.814	-0.128
50	33	7.916	7.813	-0.103
50	34	7.872	7.772	-0.100
50	35	7.814	7.748	-0.066
50	36	7.957	7.795	-0.162
55	37	7.804	7.685	-0.119
55	38	7.941	7.832	-0.109
55	39	7.958	7.856	-0.102
55	40	7.877	7.785	-0.092
55	41	7.976	7.849	-0.127
100	42	8.023	7.870	-0.153
100	43	7.917	7.778	-0.139
100	44	7.952	7.812	-0.140
100	45	8.027	7.872	-0.155
100	46	7.964	7.793	-0.171
105	47	7.845	7.694	-0.151
105	48	7.962	7.789	-0.173
105	49	7.977	7.887	-0.090
105	50	7.873	7.773	-0.100
105	51	7.958	7.815	-0.143
Max		8.027	7.887	0.039
Average		7.896	7.786	-0.110
Min		7.723	7.685	-0.262
Std Dev		0.061	0.051	0.049



	9.29_T_SYNC_RISE_200kHz_5	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.762	7.749	7.704	7.715	7.751	7.699	7.761	7.748	7.685	7.778	7.694
Average	7.777	7.787	7.718	7.777	7.793	7.775	7.811	7.788	7.801	7.825	7.792
Max	7.793	7.822	7.734	7.843	7.861	7.862	7.865	7.814	7.856	7.872	7.887
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

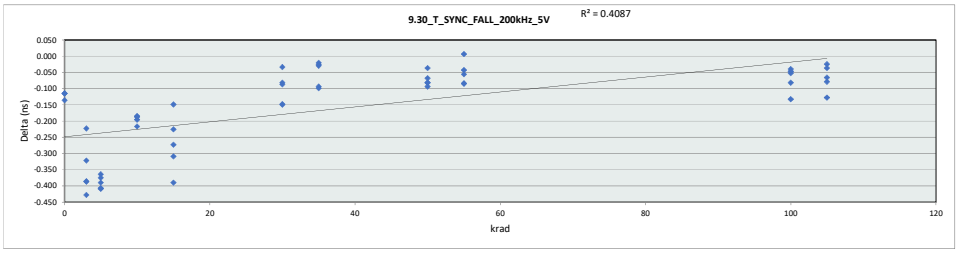


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

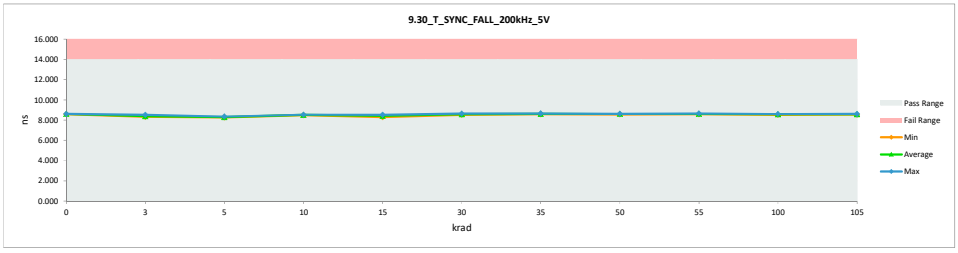
	9.30_T_SYNC_FALL_200kHz_5	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.703	8.588	-0.115
0	69	8.702	8.587	-0.115
0	70	8.743	8.607	-0.136
3	1	8.724	8.501	-0.223
3	2	8.744	8.422	-0.322
3	3	8.716	8.329	-0.387
3	4	8.748	8.320	-0.428
3	5	8.720	8.334	-0.386
5	6	8.691	8.316	-0.375
5	7	8.709	8.345	-0.364
5	8	8.677	8.268	-0.409
5	9	8.702	8.295	-0.407
5	10	8.642	8.252	-0.390
10	11	8.697	8.501	-0.196
10	12	8.691	8.505	-0.186
10	13	8.718	8.530	-0.188
10	14	8.704	8.519	-0.185
10	15	8.696	8.479	-0.217
15	16	8.673	8.400	-0.273
15	17	8.677	8.287	-0.390
15	19	8.709	8.400	-0.309
15	20	8.673	8.524	-0.149
15	21	8.711	8.485	-0.226
30	22	8.661	8.513	-0.148
30	23	8.694	8.544	-0.150
30	24	8.695	8.613	-0.082
30	25	8.694	8.607	-0.087
30	26	8.668	8.634	-0.034
35	27	8.646	8.616	-0.030
35	28	8.684	8.590	-0.094
35	29	8.663	8.642	-0.021
35	30	8.657	8.631	-0.026
35	31	8.669	8.570	-0.099
50	32	8.599	8.562	-0.037
50	33	8.689	8.607	-0.082
50	34	8.661	8.593	-0.068
50	35	8.699	8.617	-0.082
50	36	8.662	8.568	-0.094
55	37	8.674	8.590	-0.084
55	38	8.649	8.564	-0.085
55	39	8.636	8.642	0.006
55	40	8.658	8.615	-0.043
55	41	8.644	8.588	-0.056
100	42	8.647	8.600	-0.047
100	43	8.649	8.516	-0.133
100	44	8.630	8.577	-0.053
100	45	8.634	8.594	-0.040
100	46	8.660	8.578	-0.082
105	47	8.625	8.600	-0.025
105	48	8.661	8.533	-0.128
105	49	8.652	8.586	-0.066
105	50	8.639	8.602	-0.037
105	51	8.642	8.563	-0.079
Max		8.748	8.642	0.006
Average		8.678	8.518	-0.160
Min		8.599	8.252	-0.428
Std Dev		0.033	0.112	0.129



	9.30_T_SYNC_FALL_200kHz_5	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.587	8.320	8.252	8.479	8.287	8.513	8.570	8.562	8.564	8.516	8.533
Average	8.594	8.381	8.295	8.507	8.419	8.582	8.610	8.589	8.600	8.573	8.577
Max	8.607	8.501	8.345	8.530	8.524	8.634	8.642	8.617	8.642	8.600	8.602
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

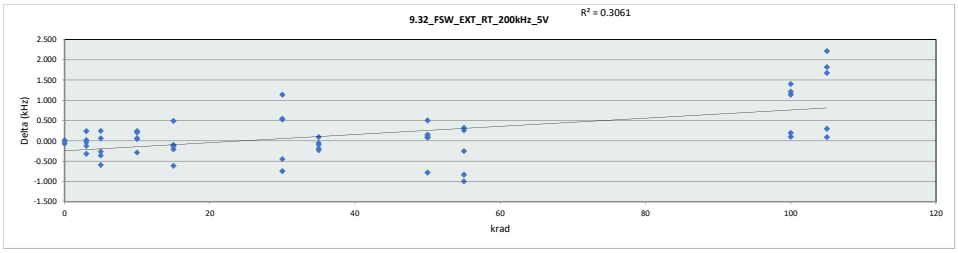


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

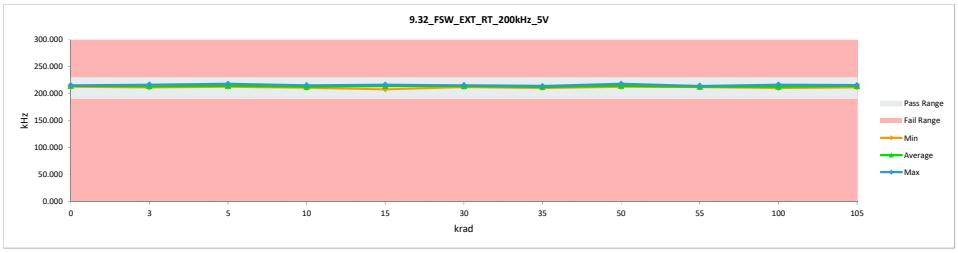
	9.32_FSW_EXT_RT_200kHz_5	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	215.106	215.032	-0.074
0	69	212.864	212.848	-0.016
0	70	215.448	215.459	0.011
3	1	212.173	211.854	-0.319
3	2	211.636	211.872	0.236
3	3	213.386	213.256	-0.130
3	4	214.059	214.076	0.017
3	5	216.627	216.588	-0.039
5	6	217.706	217.950	0.244
5	7	215.466	215.100	-0.366
5	8	215.064	214.467	-0.597
5	9	213.344	213.075	-0.269
5	10	213.057	213.115	0.058
10	11	211.489	211.534	0.045
10	12	210.838	211.039	0.201
10	13	214.506	214.566	0.060
10	14	215.841	215.551	-0.290
10	15	211.142	211.380	0.238
15	16	208.091	207.883	-0.208
15	17	216.764	216.633	-0.131
15	19	216.565	216.461	-0.104
15	20	212.850	212.232	-0.618
15	21	215.742	216.232	0.490
30	22	214.378	213.926	-0.452
30	23	211.962	212.486	0.524
30	24	214.061	214.601	0.540
30	25	214.532	215.669	1.137
30	26	214.966	214.218	-0.748
35	27	212.281	212.085	-0.196
35	28	214.111	214.011	-0.100
35	29	213.026	212.972	-0.054
35	30	210.921	210.690	-0.231
35	31	212.475	212.565	0.090
50	32	212.701	212.781	0.080
50	33	213.280	213.783	0.503
50	34	214.401	214.487	0.086
50	35	214.581	213.796	-0.785
50	36	218.153	218.304	0.151
55	37	215.349	214.348	-1.001
55	38	213.378	213.634	0.256
55	39	211.917	212.235	0.318
55	40	213.105	212.268	-0.837
55	41	212.844	212.589	-0.255
100	42	210.851	211.047	0.196
100	43	215.476	216.685	1.209
100	44	211.674	212.811	1.137
100	45	211.983	213.382	1.399
100	46	210.581	210.679	0.098
105	47	214.577	214.664	0.087
105	48	214.013	215.827	1.814
105	49	212.118	214.329	2.211
105	50	211.439	213.109	1.670
105	51	211.646	211.942	0.296
Max		218.153	218.304	2.211
Average		213.520	213.663	0.143
Min		208.091	207.883	-1.001
Std Dev		1.998	1.991	0.650



	9.32_FSW_EXT_RT_200kHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	230	kHz
Min Limit	190	kHz

krad	0	3	5	10	15	30	35	50	55	100	105
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	212.848	211.854	213.075	211.039	207.883	212.486	210.690	212.781	212.235	210.679	211.942
Average	214.446	213.529	214.741	212.814	213.888	214.180	212.465	214.630	213.015	212.921	213.974
Max	215.459	216.588	217.950	215.551	216.633	215.669	214.011	218.304	214.348	216.685	215.827
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

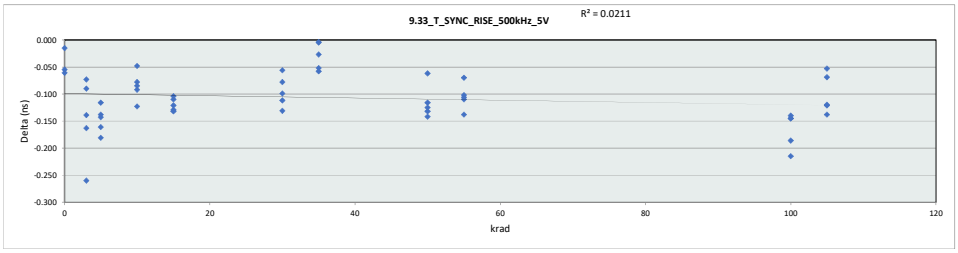


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

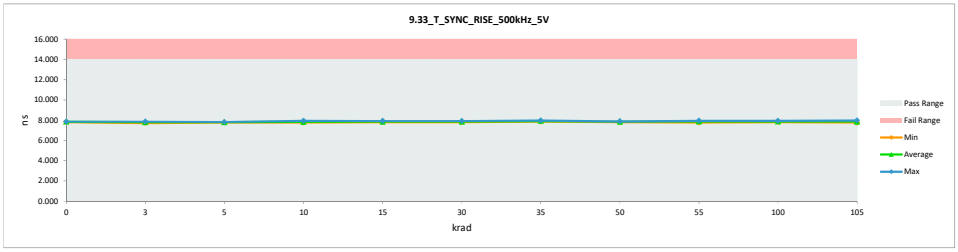
	9.33_T_SYNC_RISE_500kHz_5	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.869	7.814	-0.055
0	69	7.873	7.858	-0.015
0	70	7.907	7.846	-0.061
3	1	7.926	7.836	-0.090
3	2	7.884	7.811	-0.073
3	3	8.017	7.854	-0.163
3	4	7.980	7.720	-0.260
3	5	7.946	7.807	-0.139
5	6	7.911	7.773	-0.138
5	7	7.992	7.811	-0.181
5	8	7.948	7.787	-0.161
5	9	7.963	7.820	-0.143
5	10	7.893	7.777	-0.116
10	11	7.972	7.924	-0.048
10	12	7.852	7.767	-0.085
10	13	7.876	7.784	-0.092
10	14	7.940	7.862	-0.078
10	15	7.912	7.789	-0.123
15	16	7.962	7.841	-0.121
15	17	7.957	7.825	-0.132
15	19	7.947	7.818	-0.129
15	20	8.025	7.921	-0.104
15	21	7.983	7.873	-0.110
30	22	7.903	7.791	-0.112
30	23	7.944	7.813	-0.131
30	24	7.973	7.917	-0.056
30	25	7.952	7.853	-0.099
30	26	7.938	7.860	-0.078
35	27	7.977	7.950	-0.027
35	28	7.864	7.860	-0.004
35	29	7.890	7.885	-0.005
35	30	8.002	7.950	-0.052
35	31	7.923	7.865	-0.058
50	32	7.934	7.872	-0.062
50	33	8.007	7.882	-0.125
50	34	7.967	7.851	-0.116
50	35	7.916	7.784	-0.132
50	36	8.009	7.867	-0.142
55	37	7.867	7.757	-0.110
55	38	8.012	7.906	-0.106
55	39	8.008	7.938	-0.070
55	40	7.961	7.823	-0.138
55	41	8.009	7.907	-0.102
100	42	8.089	7.874	-0.215
100	43	7.996	7.810	-0.186
100	44	8.014	7.869	-0.145
100	45	8.076	7.931	-0.145
100	46	8.009	7.869	-0.140
105	47	7.878	7.757	-0.121
105	48	7.991	7.871	-0.120
105	49	8.016	7.963	-0.053
105	50	7.905	7.836	-0.069
105	51	8.004	7.866	-0.138
Max		8.089	7.963	-0.004
Average		7.954	7.847	-0.107
Min		7.852	7.720	-0.260
Std Dev		0.055	0.055	0.050



	9.33_T_SYNC_RISE_500kHz_5	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.814	7.720	7.773	7.767	7.818	7.791	7.860	7.784	7.757	7.810	7.757
Average	7.839	7.806	7.794	7.825	7.856	7.847	7.902	7.851	7.866	7.871	7.859
Max	7.858	7.854	7.820	7.924	7.921	7.917	7.950	7.882	7.938	7.931	7.963
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

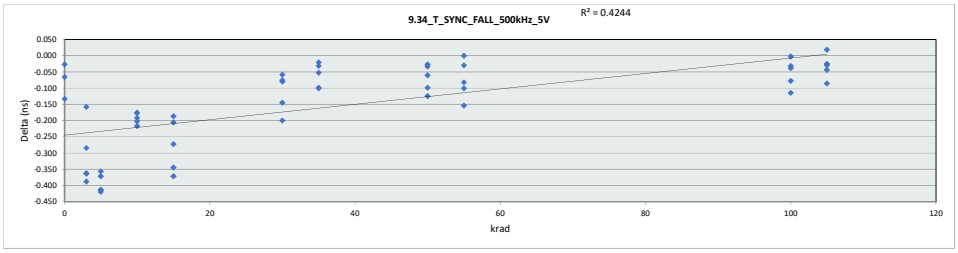


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

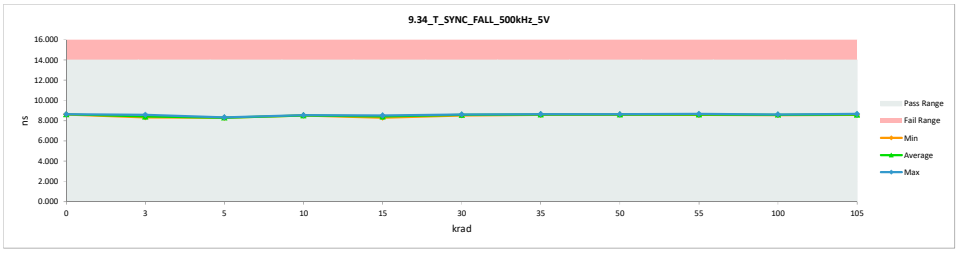
	9.34_T_SYNC_FALL_500kHz_5	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.677	8.611	-0.066
0	69	8.663	8.636	-0.027
0	70	8.760	8.626	-0.134
3	1	8.727	8.569	-0.158
3	2	8.727	8.442	-0.285
3	3	8.687	8.324	-0.363
3	4	8.702	8.338	-0.364
3	5	8.756	8.368	-0.388
5	6	8.700	8.328	-0.372
5	7	8.673	8.316	-0.357
5	8	8.726	8.313	-0.413
5	9	8.710	8.290	-0.420
5	10	8.689	8.274	-0.415
10	11	8.689	8.513	-0.176
10	12	8.709	8.517	-0.192
10	13	8.727	8.550	-0.177
10	14	8.710	8.507	-0.203
10	15	8.720	8.503	-0.217
15	16	8.695	8.422	-0.273
15	17	8.676	8.304	-0.372
15	19	8.720	8.375	-0.345
15	20	8.688	8.482	-0.206
15	21	8.693	8.506	-0.187
30	22	8.722	8.522	-0.200
30	23	8.690	8.545	-0.145
30	24	8.669	8.593	-0.076
30	25	8.672	8.613	-0.059
30	26	8.692	8.612	-0.080
35	27	8.679	8.580	-0.099
35	28	8.646	8.614	-0.032
35	29	8.675	8.654	-0.021
35	30	8.679	8.626	-0.053
35	31	8.669	8.568	-0.101
50	32	8.644	8.583	-0.061
50	33	8.669	8.642	-0.027
50	34	8.643	8.609	-0.034
50	35	8.692	8.593	-0.099
50	36	8.724	8.599	-0.125
55	37	8.712	8.558	-0.154
55	38	8.679	8.578	-0.101
55	39	8.659	8.658	-0.001
55	40	8.672	8.642	-0.030
55	41	8.683	8.600	-0.083
100	42	8.641	8.609	-0.032
100	43	8.660	8.545	-0.115
100	44	8.683	8.605	-0.078
100	45	8.653	8.614	-0.039
100	46	8.581	8.578	-0.003
105	47	8.634	8.604	-0.030
105	48	8.592	8.566	-0.026
105	49	8.641	8.659	0.018
105	50	8.662	8.576	-0.086
105	51	8.622	8.578	-0.044
	Max	8.760	8.659	0.018
	Average	8.682	8.529	-0.153
	Min	8.581	8.274	-0.420
	Std Dev	0.036	0.113	0.131



	9.34_T_SYNC_FALL_500kHz_5	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.611	8.324	8.274	8.503	8.304	8.522	8.568	8.583	8.558	8.545	8.566
Average	8.624	8.408	8.304	8.518	8.418	8.577	8.608	8.605	8.607	8.590	8.597
Max	8.636	8.569	8.328	8.550	8.506	8.613	8.654	8.642	8.658	8.614	8.659
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

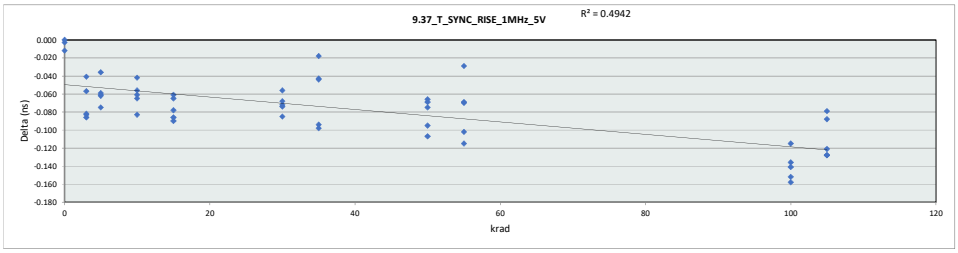


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

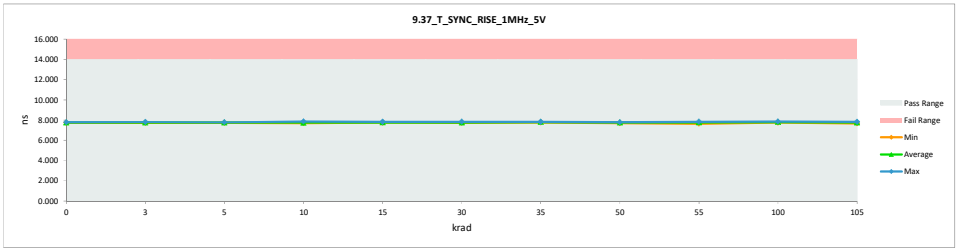
	9.37_T_SYNC_RISE_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.732	7.729	-0.003
0	69	7.753	7.741	-0.012
0	70	7.786	7.786	0.000
3	1	7.785	7.744	-0.041
3	2	7.796	7.710	-0.086
3	3	7.864	7.807	-0.057
3	4	7.856	7.773	-0.083
3	5	7.830	7.748	-0.082
5	6	7.798	7.739	-0.059
5	7	7.811	7.775	-0.036
5	8	7.821	7.759	-0.062
5	9	7.822	7.761	-0.061
5	10	7.794	7.719	-0.075
10	11	7.905	7.863	-0.042
10	12	7.748	7.687	-0.061
10	13	7.752	7.696	-0.056
10	14	7.824	7.741	-0.083
10	15	7.805	7.740	-0.065
15	16	7.857	7.767	-0.090
15	17	7.818	7.740	-0.078
15	19	7.800	7.739	-0.061
15	20	7.886	7.821	-0.065
15	21	7.863	7.777	-0.086
30	22	7.799	7.714	-0.085
30	23	7.801	7.727	-0.074
30	24	7.904	7.836	-0.068
30	25	7.827	7.755	-0.072
30	26	7.807	7.751	-0.056
35	27	7.863	7.819	-0.044
35	28	7.794	7.751	-0.043
35	29	7.845	7.751	-0.094
35	30	7.921	7.823	-0.098
35	31	7.839	7.821	-0.018
50	32	7.844	7.769	-0.075
50	33	7.834	7.768	-0.066
50	34	7.824	7.755	-0.069
50	35	7.793	7.686	-0.107
50	36	7.872	7.777	-0.095
55	37	7.751	7.636	-0.115
55	38	7.851	7.822	-0.029
55	39	7.907	7.837	-0.070
55	40	7.829	7.760	-0.069
55	41	7.906	7.804	-0.102
100	42	7.961	7.825	-0.136
100	43	7.888	7.747	-0.141
100	44	7.894	7.779	-0.115
100	45	7.998	7.846	-0.152
100	46	7.931	7.773	-0.158
105	47	7.754	7.666	-0.088
105	48	7.879	7.758	-0.121
105	49	7.903	7.824	-0.079
105	50	7.857	7.729	-0.128
105	51	7.899	7.771	-0.128
Max		7.998	7.863	0.000
Average		7.839	7.763	-0.076
Min		7.732	7.636	-0.158
Std Dev		0.057	0.047	0.035



	9.37_T_SYNC_RISE_1MHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.729	7.710	7.719	7.687	7.739	7.714	7.751	7.686	7.636	7.747	7.666
Average	7.752	7.756	7.751	7.745	7.769	7.757	7.793	7.751	7.772	7.794	7.750
Max	7.786	7.807	7.775	7.863	7.821	7.836	7.823	7.777	7.837	7.846	7.824
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

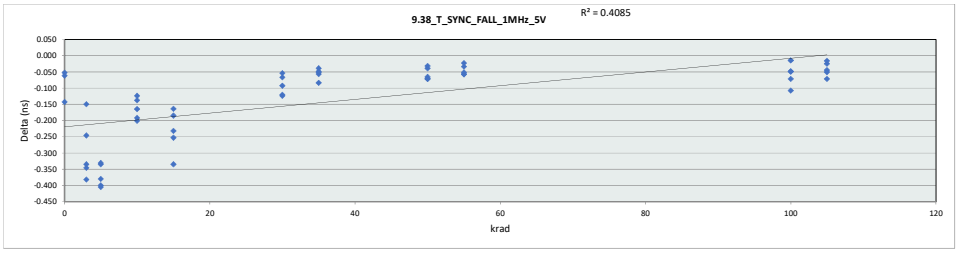


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

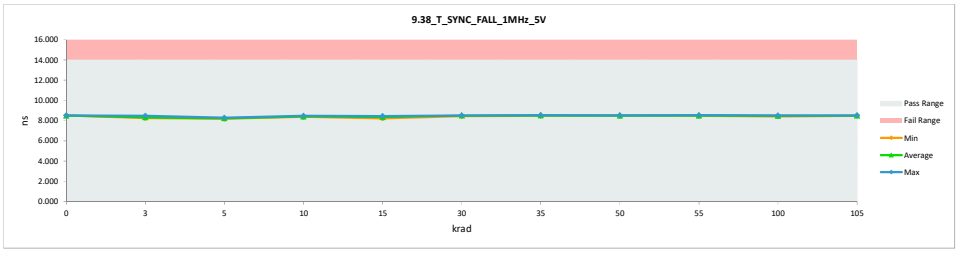
	9.38_T_SYNC_FALL_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.579	8.526	-0.053
0	69	8.574	8.512	-0.062
0	70	8.637	8.494	-0.143
3	1	8.619	8.469	-0.150
3	2	8.614	8.368	-0.246
3	3	8.625	8.243	-0.382
3	4	8.605	8.259	-0.346
3	5	8.628	8.293	-0.335
5	6	8.612	8.281	-0.331
5	7	8.619	8.284	-0.335
5	8	8.612	8.212	-0.400
5	9	8.617	8.212	-0.405
5	10	8.559	8.179	-0.380
10	11	8.584	8.383	-0.201
10	12	8.572	8.434	-0.138
10	13	8.595	8.471	-0.124
10	14	8.602	8.437	-0.165
10	15	8.585	8.393	-0.192
15	16	8.596	8.343	-0.253
15	17	8.572	8.237	-0.335
15	19	8.555	8.323	-0.232
15	20	8.588	8.403	-0.185
15	21	8.606	8.442	-0.164
30	22	8.565	8.441	-0.124
30	23	8.593	8.472	-0.121
30	24	8.583	8.516	-0.067
30	25	8.610	8.517	-0.093
30	26	8.562	8.508	-0.054
35	27	8.565	8.508	-0.057
35	28	8.576	8.524	-0.052
35	29	8.589	8.540	-0.049
35	30	8.575	8.536	-0.039
35	31	8.567	8.483	-0.084
50	32	8.561	8.495	-0.066
50	33	8.555	8.523	-0.032
50	34	8.559	8.520	-0.039
50	35	8.580	8.508	-0.072
50	36	8.563	8.491	-0.072
55	37	8.565	8.513	-0.052
55	38	8.539	8.482	-0.057
55	39	8.573	8.539	-0.034
55	40	8.576	8.518	-0.058
55	41	8.534	8.511	-0.023
100	42	8.553	8.504	-0.049
100	43	8.538	8.430	-0.108
100	44	8.534	8.485	-0.049
100	45	8.528	8.513	-0.015
100	46	8.539	8.467	-0.072
105	47	8.516	8.500	-0.016
105	48	8.545	8.473	-0.072
105	49	8.564	8.513	-0.051
105	50	8.562	8.517	-0.045
105	51	8.506	8.481	-0.025
Max		8.637	8.540	-0.015
Average		8.576	8.438	-0.138
Min		8.506	8.179	-0.405
Std Dev		0.030	0.102	0.118



	9.38_T_SYNC_FALL_1MHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.494	8.243	8.179	8.383	8.237	8.441	8.483	8.491	8.482	8.430	8.473
Average	8.511	8.326	8.234	8.424	8.350	8.491	8.518	8.507	8.513	8.480	8.497
Max	8.526	8.469	8.284	8.471	8.442	8.517	8.540	8.523	8.539	8.513	8.517
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

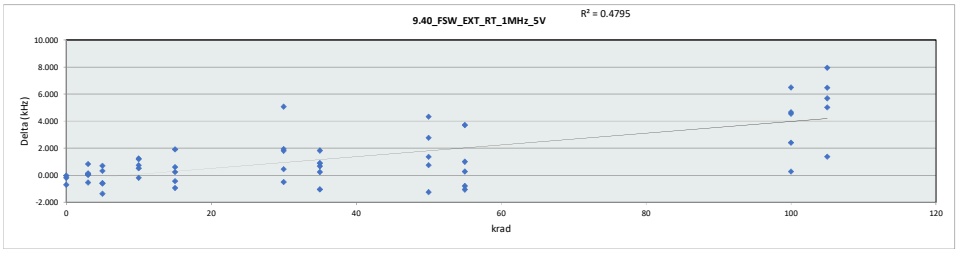


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

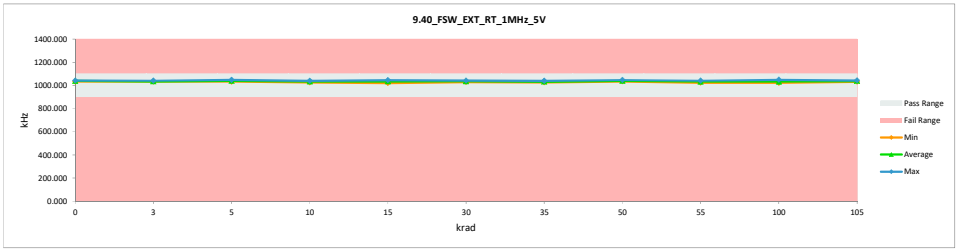
	9.40_FSW_EXT_RT_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1043.002	1042.279	-0.723
0	69	1033.524	1033.312	-0.212
0	70	1040.812	1040.772	-0.040
3	1	1033.357	1032.802	-0.555
3	2	1033.666	1034.479	0.813
3	3	1034.673	1034.697	0.024
3	4	1032.703	1032.823	0.120
3	5	1040.310	1040.337	0.027
5	6	1046.556	1047.242	0.686
5	7	1039.716	1039.123	-0.593
5	8	1045.516	1044.132	-1.384
5	9	1033.165	1032.537	-0.628
5	10	1036.683	1036.986	0.303
10	11	1024.203	1024.703	0.500
10	12	1038.980	1039.700	0.720
10	13	1036.539	1037.768	1.229
10	14	1039.969	1039.760	-0.209
10	15	1028.264	1029.436	1.172
15	16	1020.123	1020.709	0.586
15	17	1043.591	1043.807	0.216
15	19	1045.575	1045.120	-0.455
15	20	1027.505	1026.551	-0.954
15	21	1036.858	1038.752	1.894
30	22	1033.725	1034.155	0.430
30	23	1035.139	1036.931	1.792
30	24	1027.712	1029.641	1.929
30	25	1036.616	1041.668	5.052
30	26	1041.529	1041.008	-0.521
35	27	1032.558	1031.492	-1.066
35	28	1038.916	1039.575	0.659
35	29	1033.837	1034.052	0.215
35	30	1024.307	1026.120	1.813
35	31	1026.795	1027.671	0.876
50	32	1032.200	1034.947	2.747
50	33	1034.479	1038.795	4.316
50	34	1037.785	1039.128	1.343
50	35	1043.776	1042.513	-1.263
50	36	1045.811	1046.545	0.734
55	37	1041.964	1041.150	-0.814
55	38	1033.841	1034.097	0.256
55	39	1020.325	1024.015	3.690
55	40	1036.746	1035.675	-1.071
55	41	1030.138	1031.127	0.989
100	42	1021.643	1021.904	0.261
100	43	1044.293	1048.934	4.641
100	44	1028.377	1034.854	6.477
100	45	1026.325	1030.853	4.528
100	46	1023.392	1025.784	2.392
105	47	1041.647	1043.005	1.358
105	48	1036.485	1042.158	5.673
105	49	1028.185	1036.113	7.928
105	50	1026.349	1032.802	6.453
105	51	1026.583	1031.581	4.998
Max		1046.556	1048.934	7.928
Average		1034.467	1035.776	1.309
Min		1020.123	1020.709	-1.384
Std Dev		7.112	6.639	2.242



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000
Min	1033.312	1032.802	1032.537	1024.703	1020.709	1029.641	1026.120	1034.947	1024.015	1021.904	1031.581
Average	1038.788	1035.028	1040.004	1034.273	1034.988	1036.681	1031.782	1040.386	1033.213	1032.466	1037.132
Max	1042.279	1040.337	1047.242	1039.760	1045.120	1041.668	1039.575	1046.545	1041.150	1048.934	1043.005
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

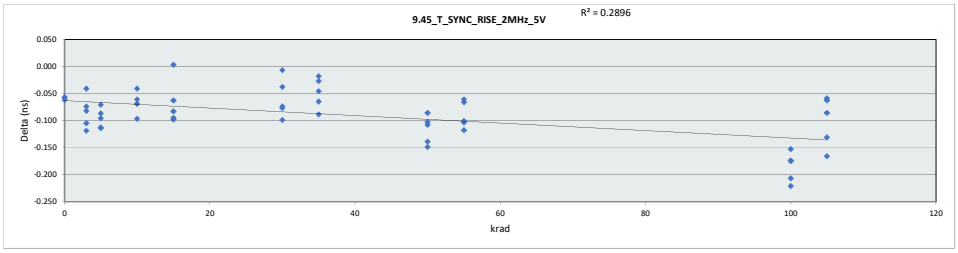


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

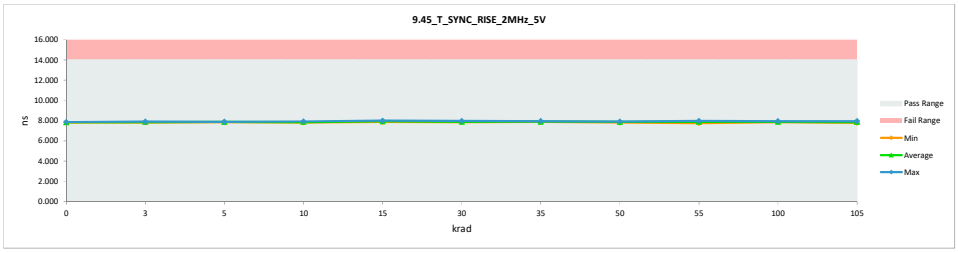
	9.45_T_SYNC_RISE_2MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.872	7.810	-0.062
0	69	7.898	7.841	-0.057
0	70	7.921	7.864	-0.057
3	1	7.921	7.880	-0.041
3	2	7.894	7.820	-0.074
3	3	8.009	7.904	-0.105
3	4	7.986	7.867	-0.119
3	5	7.938	7.856	-0.082
5	6	7.953	7.882	-0.071
5	7	7.990	7.877	-0.113
5	8	7.984	7.888	-0.096
5	9	7.956	7.869	-0.087
5	10	7.953	7.839	-0.114
10	11	8.025	7.928	-0.097
10	12	7.872	7.831	-0.041
10	13	7.893	7.824	-0.069
10	14	7.967	7.906	-0.061
10	15	7.914	7.845	-0.069
15	16	7.933	7.936	0.003
15	17	7.985	7.887	-0.098
15	19	7.955	7.892	-0.063
15	20	8.090	7.995	-0.095
15	21	8.002	7.919	-0.083
30	22	7.941	7.842	-0.099
30	23	7.927	7.850	-0.077
30	24	8.006	7.968	-0.038
30	25	7.969	7.895	-0.074
30	26	7.878	7.871	-0.007
35	27	7.979	7.933	-0.046
35	28	7.887	7.869	-0.018
35	29	7.950	7.885	-0.065
35	30	7.978	7.951	-0.027
35	31	8.000	7.911	-0.089
50	32	7.957	7.871	-0.086
50	33	8.060	7.911	-0.149
50	34	7.988	7.880	-0.108
50	35	7.910	7.807	-0.103
50	36	8.032	7.893	-0.139
55	37	7.880	7.762	-0.118
55	38	8.018	7.917	-0.101
55	39	8.029	7.968	-0.061
55	40	7.967	7.863	-0.104
55	41	7.995	7.929	-0.066
100	42	8.091	7.917	-0.174
100	43	8.075	7.868	-0.207
100	44	8.011	7.858	-0.153
100	45	8.126	7.951	-0.175
100	46	8.087	7.866	-0.221
105	47	7.875	7.789	-0.086
105	48	7.973	7.910	-0.063
105	49	8.007	7.948	-0.059
105	50	7.964	7.833	-0.131
105	51	8.024	7.858	-0.166
Max		8.126	7.995	0.003
Average		7.972	7.882	-0.090
Min		7.872	7.762	-0.221
Std Dev		0.062	0.047	0.046



	9.45_T_SYNC_RISE_2MHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.810	7.820	7.839	7.824	7.887	7.842	7.869	7.807	7.762	7.858	7.789
Average	7.838	7.865	7.871	7.867	7.926	7.885	7.910	7.872	7.888	7.892	7.868
Max	7.864	7.904	7.888	7.928	7.995	7.968	7.951	7.911	7.968	7.951	7.948
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

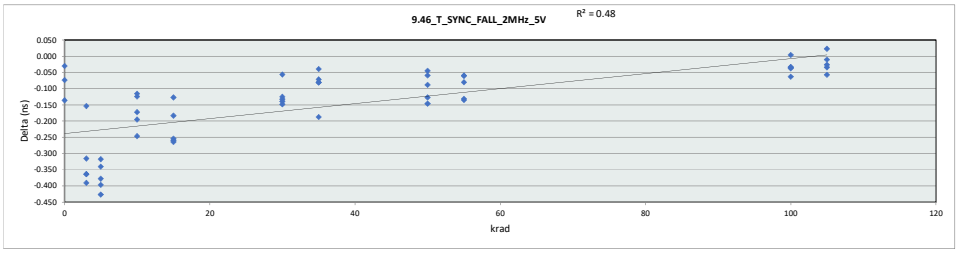


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

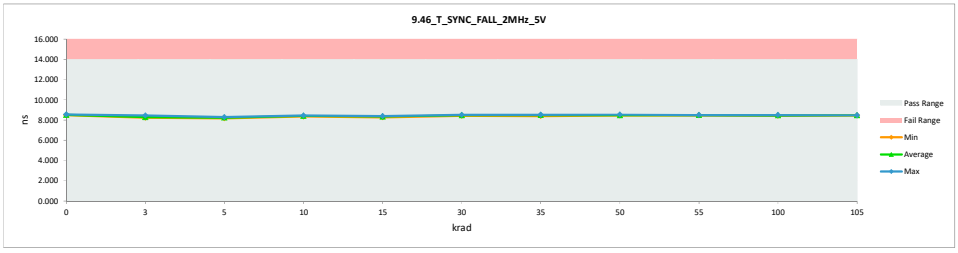
	9.46_T_SYNC_FALL_2MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.578	8.547	-0.031
0	69	8.553	8.479	-0.074
0	70	8.652	8.515	-0.137
3	1	8.602	8.448	-0.154
3	2	8.604	8.288	-0.316
3	3	8.630	8.266	-0.364
3	4	8.639	8.248	-0.391
3	5	8.584	8.220	-0.364
5	6	8.600	8.282	-0.318
5	7	8.615	8.274	-0.341
5	8	8.627	8.249	-0.378
5	9	8.613	8.186	-0.427
5	10	8.559	8.162	-0.397
10	11	8.546	8.421	-0.125
10	12	8.579	8.383	-0.196
10	13	8.615	8.442	-0.173
10	14	8.551	8.435	-0.116
10	15	8.593	8.346	-0.247
15	16	8.537	8.277	-0.260
15	17	8.596	8.331	-0.265
15	19	8.571	8.316	-0.255
15	20	8.512	8.384	-0.128
15	21	8.567	8.383	-0.184
30	22	8.555	8.415	-0.140
30	23	8.618	8.469	-0.149
30	24	8.606	8.473	-0.133
30	25	8.611	8.485	-0.126
30	26	8.563	8.506	-0.057
35	27	8.582	8.501	-0.081
35	28	8.526	8.486	-0.040
35	29	8.605	8.523	-0.082
35	30	8.565	8.493	-0.072
35	31	8.580	8.392	-0.188
50	32	8.547	8.458	-0.089
50	33	8.574	8.528	-0.046
50	34	8.569	8.441	-0.128
50	35	8.541	8.481	-0.060
50	36	8.616	8.469	-0.147
55	37	8.595	8.463	-0.132
55	38	8.613	8.477	-0.136
55	39	8.568	8.487	-0.081
55	40	8.551	8.490	-0.061
55	41	8.535	8.474	-0.061
100	42	8.465	8.431	-0.034
100	43	8.509	8.471	-0.038
100	44	8.517	8.482	-0.035
100	45	8.497	8.500	0.003
100	46	8.476	8.412	-0.064
105	47	8.534	8.476	-0.058
105	48	8.443	8.465	0.022
105	49	8.492	8.465	-0.027
105	50	8.460	8.449	-0.011
105	51	8.504	8.469	-0.035
Max		8.652	8.547	0.022
Average		8.565	8.415	-0.150
Min		8.443	8.162	-0.427
Std Dev		0.048	0.097	0.119



	9.46_T_SYNC_FALL_2MHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.479	8.220	8.162	8.346	8.277	8.415	8.392	8.441	8.463	8.412	8.449
Average	8.514	8.294	8.231	8.405	8.338	8.470	8.479	8.475	8.478	8.459	8.465
Max	8.547	8.448	8.282	8.442	8.384	8.506	8.523	8.528	8.490	8.500	8.476
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

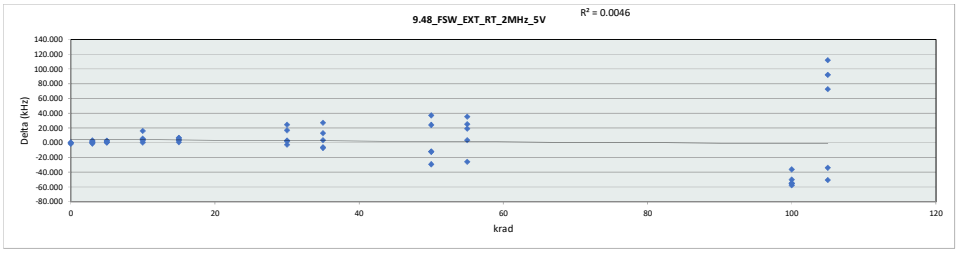


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

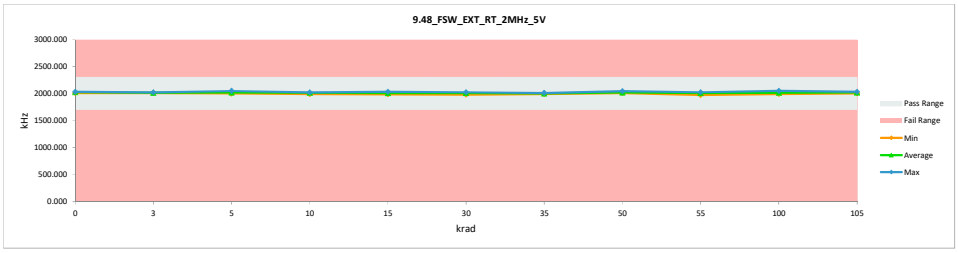
	9.48_FSW_EXT_RT_2MHz_5V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2035.721	2033.966	-1.755
0	69	2012.181	2012.011	-0.170
0	70	2030.689	2031.052	0.363
3	1	2011.719	2010.433	-1.286
3	2	2012.592	2015.310	2.718
3	3	2020.832	2022.143	1.311
3	4	2008.219	2008.361	0.142
3	5	2019.894	2020.408	0.514
5	6	2046.760	2049.252	2.492
5	7	2010.106	2010.833	0.727
5	8	2022.248	2022.287	0.039
5	9	2002.798	2003.019	0.221
5	10	2021.988	2024.601	2.613
10	11	1988.320	1990.874	2.554
10	12	2006.020	2021.865	15.845
10	13	2017.882	2022.151	4.269
10	14	2017.656	2023.045	5.389
10	15	2005.472	2005.575	0.103
15	16	1985.775	1989.753	3.978
15	17	2024.034	2027.127	3.093
15	19	2028.020	2034.490	6.470
15	20	1987.856	1988.456	0.600
15	21	2002.186	2008.305	6.119
30	22	2012.872	2010.041	-2.831
30	23	2007.945	2024.638	16.693
30	24	1979.272	1981.320	2.048
30	25	2021.174	2023.983	2.809
30	26	1991.469	2015.819	24.350
35	27	2000.479	2003.854	3.375
35	28	1984.498	2011.486	26.988
35	29	2018.727	2012.362	-6.365
35	30	1983.222	1996.021	12.799
35	31	2002.274	1995.120	-7.154
50	32	1971.675	2008.536	36.861
50	33	2052.724	2023.334	-29.390
50	34	2022.764	2010.552	-12.212
50	35	2019.872	2043.782	23.910
50	36	2042.849	2030.562	-12.287
55	37	2022.973	2026.334	3.361
55	38	1992.185	2011.210	19.025
55	39	1999.907	1973.874	-26.033
55	40	1999.455	2024.388	24.933
55	41	1983.812	2018.953	35.141
100	42	2046.999	1996.715	-50.284
100	43	2103.894	2048.944	-54.950
100	44	2057.480	2021.135	-36.345
100	45	2062.071	2004.126	-57.945
100	46	2049.155	1993.623	-55.532
105	47	1959.583	2032.051	72.468
105	48	1922.885	2034.643	111.758
105	49	1919.841	2011.796	91.955
105	50	2056.639	2005.954	-50.685
105	51	2053.016	2019.019	-33.997
Max		2103.894	2049.252	111.758
Average		2012.466	2014.896	2.430
Min		1919.841	1973.874	-57.945
Std Dev		31.922	15.965	31.393



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000
Min	2012.011	2008.361	2003.019	1990.874	1988.456	1981.320	1995.120	2008.536	1973.874	1993.623	2005.954
Average	2025.676	2015.331	2021.998	2012.702	2009.626	2011.160	2003.769	2023.353	2010.952	2012.909	2020.693
Max	2033.966	2022.143	2049.252	2023.045	2034.490	2024.638	2012.362	2043.782	2026.334	2048.944	2034.643
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

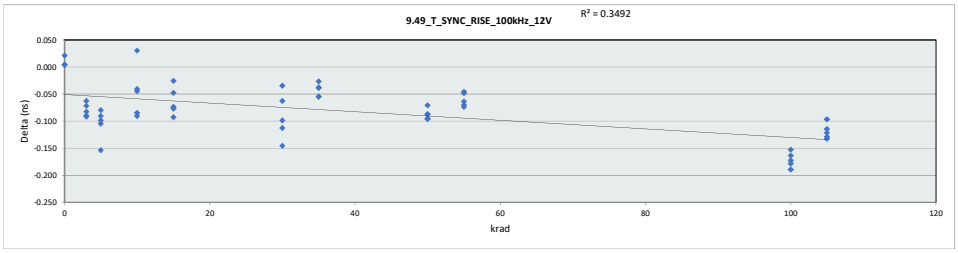


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

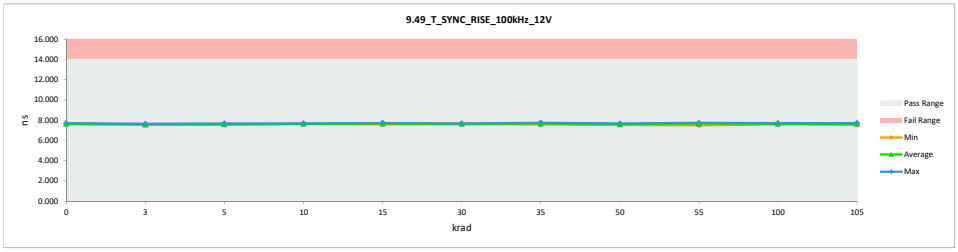
	9.49_T_SYNC_RISE_100kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.594	7.598	0.004
0	69	7.660	7.664	0.004
0	70	7.675	7.696	0.021
3	1	7.672	7.609	-0.063
3	2	7.621	7.549	-0.072
3	3	7.727	7.635	-0.092
3	4	7.674	7.591	-0.083
3	5	7.646	7.556	-0.090
5	6	7.783	7.678	-0.105
5	7	7.671	7.591	-0.080
5	8	7.686	7.595	-0.091
5	9	7.762	7.608	-0.154
5	10	7.644	7.545	-0.099
10	11	7.774	7.683	-0.091
10	12	7.690	7.649	-0.041
10	13	7.601	7.631	0.030
10	14	7.663	7.618	-0.045
10	15	7.729	7.644	-0.085
15	16	7.776	7.699	-0.077
15	17	7.672	7.579	-0.093
15	19	7.710	7.636	-0.074
15	20	7.751	7.725	-0.026
15	21	7.696	7.648	-0.048
30	22	7.719	7.620	-0.099
30	23	7.749	7.603	-0.146
30	24	7.715	7.680	-0.035
30	25	7.758	7.645	-0.113
30	26	7.741	7.678	-0.063
35	27	7.742	7.715	-0.027
35	28	7.692	7.654	-0.038
35	29	7.721	7.682	-0.039
35	30	7.808	7.753	-0.055
35	31	7.629	7.574	-0.055
50	32	7.760	7.664	-0.096
50	33	7.701	7.605	-0.096
50	34	7.666	7.595	-0.071
50	35	7.620	7.533	-0.087
50	36	7.758	7.670	-0.088
55	37	7.567	7.497	-0.070
55	38	7.803	7.729	-0.074
55	39	7.793	7.744	-0.049
55	40	7.714	7.668	-0.046
55	41	7.740	7.676	-0.064
100	42	7.867	7.694	-0.173
100	43	7.766	7.587	-0.179
100	44	7.773	7.609	-0.164
100	45	7.853	7.700	-0.153
100	46	7.856	7.666	-0.190
105	47	7.666	7.551	-0.115
105	48	7.724	7.591	-0.133
105	49	7.742	7.645	-0.097
105	50	7.713	7.591	-0.122
105	51	7.847	7.718	-0.129
Max		7.867	7.753	0.030
Average		7.718	7.637	-0.081
Min		7.567	7.497	-0.190
Std Dev		0.068	0.058	0.048



	9.49_T_SYNC_RISE_100kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.598	7.549	7.545	7.618	7.579	7.603	7.574	7.533	7.497	7.587	7.551
Average	7.653	7.588	7.603	7.645	7.657	7.645	7.676	7.613	7.663	7.651	7.619
Max	7.696	7.635	7.678	7.683	7.725	7.680	7.753	7.670	7.744	7.700	7.718
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

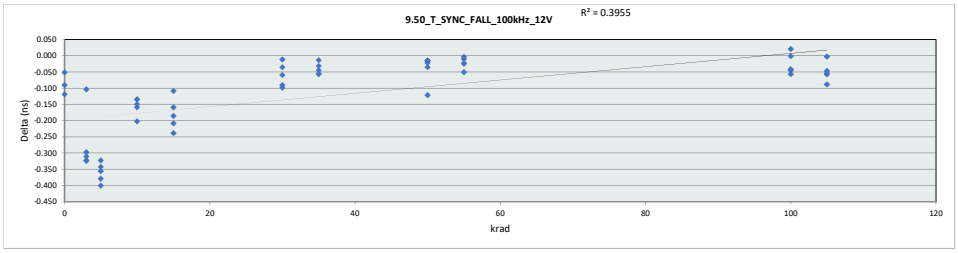


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

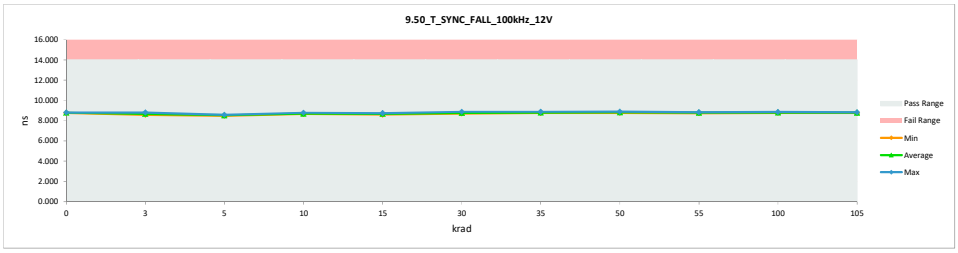
	9.50_T_SYNC_FALL_100kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.852	8.800	-0.052
0	69	8.895	8.804	-0.091
0	70	8.879	8.760	-0.119
3	1	8.909	8.805	-0.104
3	2	8.958	8.647	-0.311
3	3	8.892	8.594	-0.298
3	4	8.904	8.581	-0.323
3	5	8.939	8.615	-0.324
5	6	8.846	8.490	-0.356
5	7	8.905	8.582	-0.323
5	8	8.890	8.547	-0.343
5	9	8.925	8.524	-0.401
5	10	8.872	8.493	-0.379
10	11	8.885	8.726	-0.159
10	12	8.805	8.670	-0.135
10	13	8.858	8.723	-0.135
10	14	8.932	8.782	-0.150
10	15	8.857	8.654	-0.203
15	16	8.806	8.597	-0.209
15	17	8.860	8.621	-0.239
15	19	8.779	8.620	-0.159
15	20	8.852	8.666	-0.186
15	21	8.849	8.740	-0.109
30	22	8.811	8.720	-0.091
30	23	8.808	8.709	-0.099
30	24	8.905	8.869	-0.036
30	25	8.847	8.787	-0.060
30	26	8.794	8.782	-0.012
35	27	8.866	8.834	-0.032
35	28	8.821	8.776	-0.045
35	29	8.839	8.825	-0.014
35	30	8.821	8.765	-0.056
35	31	8.930	8.873	-0.057
50	32	8.826	8.810	-0.016
50	33	8.896	8.881	-0.015
50	34	8.863	8.841	-0.022
50	35	8.872	8.836	-0.036
50	36	8.892	8.770	-0.122
55	37	8.833	8.829	-0.004
55	38	8.797	8.746	-0.051
55	39	8.798	8.787	-0.011
55	40	8.826	8.803	-0.023
55	41	8.850	8.825	-0.025
100	42	8.872	8.827	-0.045
100	43	8.819	8.777	-0.042
100	44	8.834	8.854	0.020
100	45	8.858	8.801	-0.057
100	46	8.799	8.797	-0.002
105	47	8.874	8.785	-0.089
105	48	8.871	8.824	-0.047
105	49	8.882	8.827	-0.055
105	50	8.864	8.806	-0.058
105	51	8.759	8.756	-0.003
Max		8.958	8.881	0.020
Average		8.858	8.739	-0.119
Min		8.759	8.490	-0.401
Std Dev		0.044	0.104	0.117



	9.50_T_SYNC_FALL_100kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.760	8.581	8.490	8.654	8.597	8.709	8.765	8.770	8.746	8.777	8.756
Average	8.788	8.648	8.527	8.711	8.649	8.773	8.815	8.828	8.798	8.811	8.800
Max	8.804	8.805	8.582	8.782	8.740	8.869	8.873	8.881	8.829	8.854	8.827
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

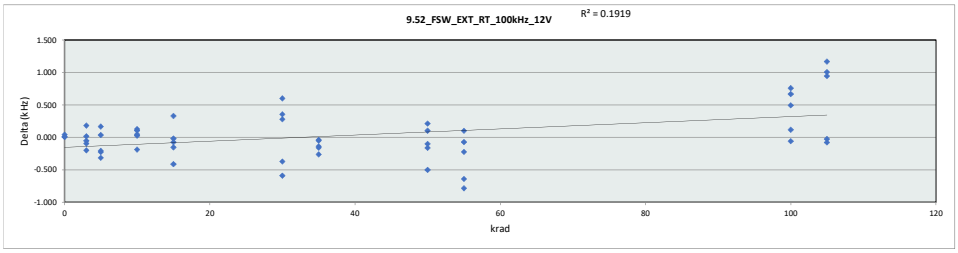


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

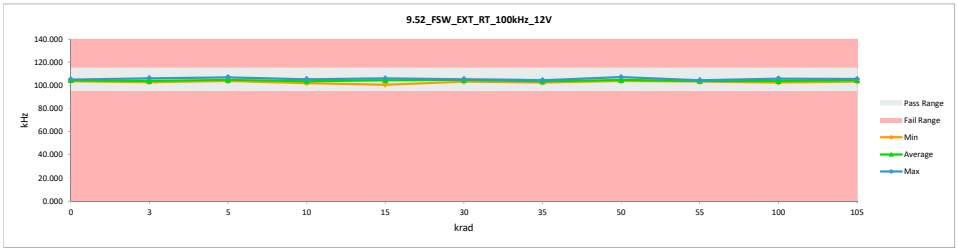
	9.52_FSW_EXT_RT_100kHz_1	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	104.658	104.661	0.003
0	69	103.563	103.567	0.004
0	70	105.104	105.142	0.038
3	1	103.083	102.880	-0.203
3	2	102.616	102.794	0.178
3	3	103.871	103.772	-0.099
3	4	104.411	104.423	0.012
3	5	106.209	106.153	-0.056
5	6	106.730	106.893	0.163
5	7	105.245	105.014	-0.231
5	8	104.851	104.533	-0.318
5	9	103.915	103.704	-0.211
5	10	103.896	103.929	0.033
10	11	103.286	103.328	0.042
10	12	101.747	101.871	0.124
10	13	104.625	104.648	0.023
10	14	105.560	105.369	-0.191
10	15	102.746	102.848	0.102
15	16	100.768	100.610	-0.158
15	17	105.908	105.830	-0.078
15	19	106.029	106.008	-0.021
15	20	104.103	103.687	-0.416
15	21	105.609	105.935	0.326
30	22	104.807	104.431	-0.376
30	23	102.829	103.105	0.276
30	24	104.760	105.112	0.352
30	25	104.674	105.271	0.597
30	26	105.192	104.598	-0.594
35	27	103.036	102.994	-0.042
35	28	104.587	104.446	-0.141
35	29	103.846	103.682	-0.164
35	30	102.597	102.330	-0.267
35	31	103.671	103.616	-0.055
50	32	103.817	103.713	-0.104
50	33	103.798	104.007	0.209
50	34	104.518	104.352	-0.166
50	35	104.537	104.032	-0.505
50	36	106.970	107.069	0.099
55	37	105.092	104.304	-0.788
55	38	104.078	104.176	0.098
55	39	103.730	103.653	-0.077
55	40	103.781	103.136	-0.645
55	41	104.021	103.792	-0.229
100	42	102.709	102.823	0.114
100	43	105.135	105.798	0.663
100	44	103.008	103.497	0.489
100	45	103.531	104.285	0.754
100	46	102.492	102.429	-0.063
105	47	104.714	104.684	-0.030
105	48	104.464	105.467	1.003
105	49	103.554	104.718	1.164
105	50	103.122	104.063	0.941
105	51	103.199	103.116	-0.083
Max		106.970	107.069	1.164
Average		104.128	104.157	0.028
Min		100.768	100.610	-0.788
Std Dev		1.215	1.238	0.387



	9.52_FSW_EXT_RT_100kHz_12	
Test Site		
Tester		
Test Number		
Max Limit	115	kHz
Min Limit	95	kHz

krad	0	3	5	10	15	30	35	50	55	100	105
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	103.567	102.794	103.704	101.871	100.610	103.105	102.330	103.713	103.136	102.429	103.116
Average	104.457	104.004	104.815	103.613	104.414	104.503	103.414	104.635	103.812	103.766	104.410
Max	105.142	106.153	106.893	105.369	106.008	105.271	104.446	107.069	104.304	105.798	105.467
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

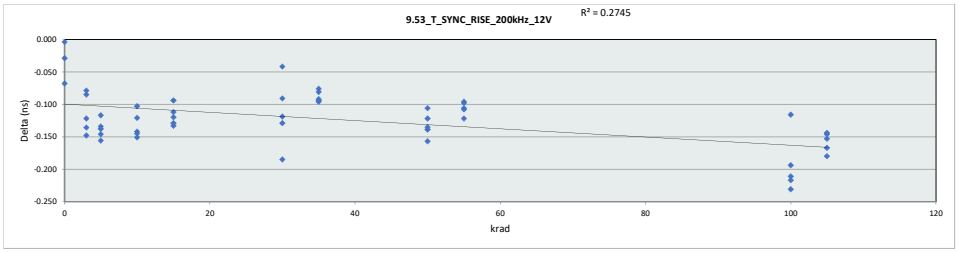


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

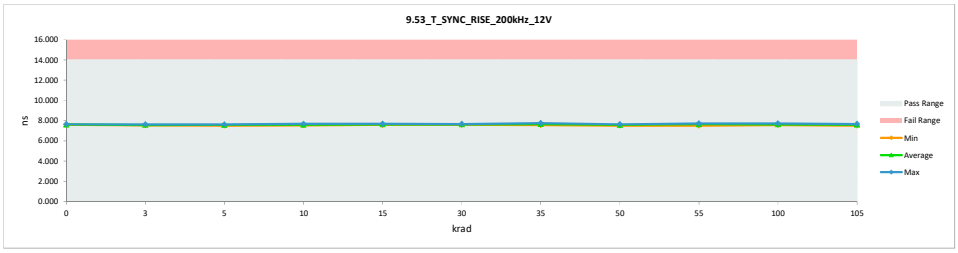
	9.53_T_SYNC_RISE_200kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.590	7.586	-0.004
0	69	7.656	7.627	-0.029
0	70	7.715	7.647	-0.068
3	1	7.665	7.580	-0.085
3	2	7.616	7.537	-0.079
3	3	7.762	7.626	-0.136
3	4	7.712	7.564	-0.148
3	5	7.644	7.522	-0.122
5	6	7.749	7.615	-0.134
5	7	7.715	7.559	-0.156
5	8	7.693	7.576	-0.117
5	9	7.745	7.599	-0.146
5	10	7.657	7.519	-0.138
10	11	7.788	7.685	-0.103
10	12	7.695	7.574	-0.121
10	13	7.679	7.534	-0.145
10	14	7.727	7.585	-0.142
10	15	7.760	7.609	-0.151
15	16	7.766	7.672	-0.094
15	17	7.693	7.573	-0.120
15	19	7.734	7.601	-0.133
15	20	7.794	7.682	-0.112
15	21	7.751	7.622	-0.129
30	22	7.767	7.582	-0.185
30	23	7.722	7.631	-0.091
30	24	7.764	7.635	-0.129
30	25	7.724	7.605	-0.119
30	26	7.713	7.671	-0.042
35	27	7.778	7.702	-0.076
35	28	7.722	7.626	-0.096
35	29	7.728	7.636	-0.092
35	30	7.830	7.749	-0.081
35	31	7.651	7.557	-0.094
50	32	7.721	7.615	-0.106
50	33	7.718	7.561	-0.157
50	34	7.703	7.564	-0.139
50	35	7.649	7.514	-0.135
50	36	7.763	7.641	-0.122
55	37	7.599	7.501	-0.098
55	38	7.812	7.706	-0.106
55	39	7.820	7.724	-0.096
55	40	7.737	7.629	-0.108
55	41	7.761	7.639	-0.122
100	42	7.843	7.727	-0.116
100	43	7.790	7.559	-0.231
100	44	7.777	7.583	-0.194
100	45	7.860	7.649	-0.211
100	46	7.855	7.638	-0.217
105	47	7.680	7.513	-0.167
105	48	7.745	7.601	-0.144
105	49	7.801	7.648	-0.153
105	50	7.735	7.589	-0.146
105	51	7.849	7.669	-0.180
Max		7.860	7.749	-0.004
Average		7.734	7.611	-0.124
Min		7.590	7.501	-0.231
Std Dev		0.063	0.058	0.043



	9.53_T_SYNC_RISE_200kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.586	7.522	7.519	7.534	7.573	7.582	7.557	7.514	7.501	7.559	7.513
Average	7.620	7.566	7.574	7.597	7.630	7.625	7.654	7.579	7.640	7.631	7.604
Max	7.647	7.626	7.615	7.685	7.682	7.671	7.749	7.641	7.724	7.727	7.669
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

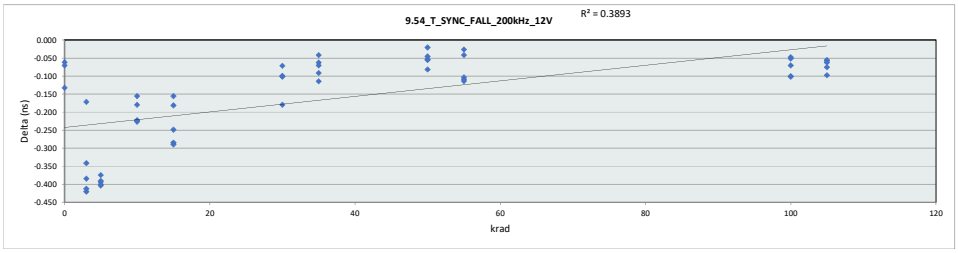


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

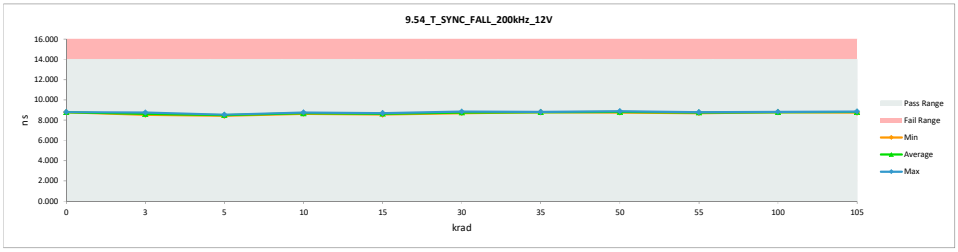
	9.54_T_SYNC_FALL_200kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.869	8.807	-0.062
0	69	8.873	8.802	-0.071
0	70	8.905	8.772	-0.133
3	1	8.925	8.753	-0.172
3	2	8.990	8.648	-0.342
3	3	8.954	8.533	-0.421
3	4	8.946	8.533	-0.413
3	5	8.970	8.585	-0.385
5	6	8.824	8.433	-0.391
5	7	8.925	8.550	-0.375
5	8	8.915	8.521	-0.394
5	9	8.919	8.518	-0.401
5	10	8.895	8.491	-0.404
10	11	8.887	8.663	-0.224
10	12	8.821	8.641	-0.180
10	13	8.929	8.702	-0.227
10	14	8.917	8.761	-0.156
10	15	8.881	8.658	-0.223
15	16	8.842	8.557	-0.285
15	17	8.887	8.597	-0.290
15	19	8.867	8.618	-0.249
15	20	8.855	8.673	-0.182
15	21	8.859	8.703	-0.156
30	22	8.877	8.697	-0.180
30	23	8.820	8.720	-0.100
30	24	8.916	8.844	-0.072
30	25	8.877	8.775	-0.102
30	26	8.867	8.766	-0.101
35	27	8.888	8.773	-0.115
35	28	8.849	8.778	-0.071
35	29	8.856	8.793	-0.063
35	30	8.814	8.772	-0.042
35	31	8.914	8.822	-0.092
50	32	8.863	8.807	-0.056
50	33	8.902	8.881	-0.021
50	34	8.878	8.832	-0.046
50	35	8.896	8.842	-0.054
50	36	8.834	8.752	-0.082
55	37	8.889	8.780	-0.109
55	38	8.812	8.698	-0.114
55	39	8.802	8.775	-0.027
55	40	8.825	8.783	-0.042
55	41	8.893	8.789	-0.104
100	42	8.887	8.785	-0.102
100	43	8.875	8.774	-0.101
100	44	8.864	8.812	-0.052
100	45	8.881	8.833	-0.048
100	46	8.847	8.776	-0.071
105	47	8.878	8.780	-0.098
105	48	8.902	8.839	-0.063
105	49	8.913	8.857	-0.056
105	50	8.870	8.794	-0.076
105	51	8.792	8.734	-0.058
Max		8.990	8.881	-0.021
Average		8.880	8.720	-0.160
Min		8.792	8.433	-0.421
Std Dev		0.042	0.109	0.124



	9.54_T_SYNC_FALL_200kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.772	8.533	8.433	8.641	8.557	8.697	8.772	8.752	8.698	8.774	8.734
Average	8.794	8.610	8.503	8.685	8.630	8.760	8.788	8.823	8.765	8.796	8.801
Max	8.807	8.753	8.550	8.761	8.703	8.844	8.822	8.881	8.789	8.833	8.857
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

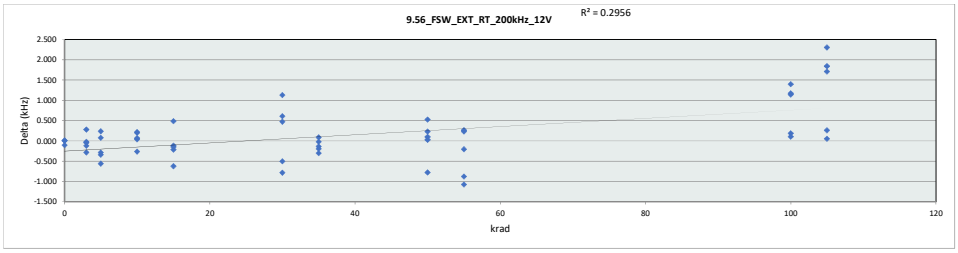


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

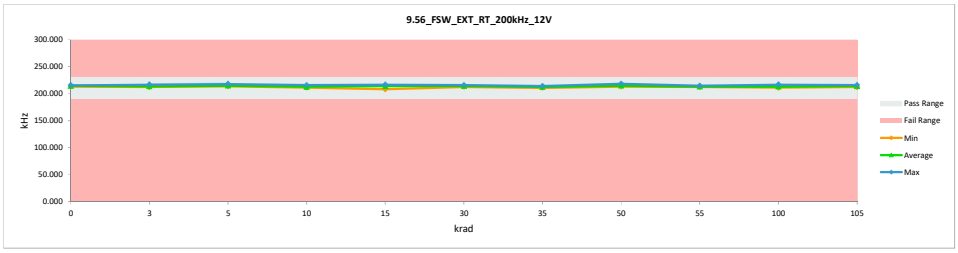
	9.56_FSW_EXT_RT_200kHz_1	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	215.204	215.096	-0.108
0	69	212.944	212.952	0.008
0	70	215.518	215.516	-0.002
3	1	212.250	211.965	-0.285
3	2	211.737	212.015	0.278
3	3	213.441	213.318	-0.123
3	4	214.183	214.159	-0.024
3	5	216.748	216.701	-0.047
5	6	217.733	217.967	0.234
5	7	215.575	215.231	-0.344
5	8	215.145	214.582	-0.563
5	9	213.467	213.179	-0.288
5	10	213.137	213.209	0.072
10	11	211.549	211.585	0.036
10	12	210.857	211.055	0.198
10	13	214.541	214.606	0.065
10	14	215.958	215.692	-0.266
10	15	211.229	211.445	0.216
15	16	208.186	207.967	-0.219
15	17	216.893	216.742	-0.151
15	19	216.631	216.511	-0.120
15	20	212.920	212.295	-0.625
15	21	215.830	216.314	0.484
30	22	214.469	213.964	-0.505
30	23	211.987	212.595	0.608
30	24	214.194	214.666	0.472
30	25	214.626	215.753	1.127
30	26	215.074	214.287	-0.787
35	27	212.337	212.140	-0.197
35	28	214.234	214.093	-0.141
35	29	213.107	213.083	-0.024
35	30	211.005	210.700	-0.305
35	31	212.610	212.693	0.083
50	32	212.802	212.828	0.026
50	33	213.425	213.949	0.524
50	34	214.540	214.637	0.097
50	35	214.656	213.875	-0.781
50	36	218.213	218.442	0.229
55	37	215.514	214.437	-1.077
55	38	213.429	213.658	0.229
55	39	212.034	212.296	0.262
55	40	213.212	212.331	-0.881
55	41	212.944	212.736	-0.208
100	42	210.921	211.106	0.185
100	43	215.592	216.763	1.171
100	44	211.764	212.905	1.141
100	45	212.081	213.477	1.396
100	46	210.666	210.769	0.103
105	47	214.693	214.745	0.052
105	48	214.103	215.941	1.838
105	49	212.193	214.496	2.303
105	50	211.501	213.207	1.706
105	51	211.744	212.003	0.259
	Max	218.213	218.442	2.303
	Average	213.610	213.749	0.138
	Min	208.186	207.967	-1.077
	Std Dev	2.003	1.997	0.664



	9.56_FSW_EXT_RT_200kHz_12	
Test Site		
Tester		
Test Number		
Max Limit	230	kHz
Min Limit	190	kHz

krad	0	3	5	10	15	30	35	50	55	100	105
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	212.952	211.965	213.179	211.055	207.967	212.595	210.700	212.828	212.296	210.769	212.003
Average	214.521	213.632	214.834	212.877	213.966	214.253	212.542	214.746	213.092	213.004	214.078
Max	215.516	216.701	217.967	215.692	216.742	215.753	214.093	218.442	214.437	216.763	215.941
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

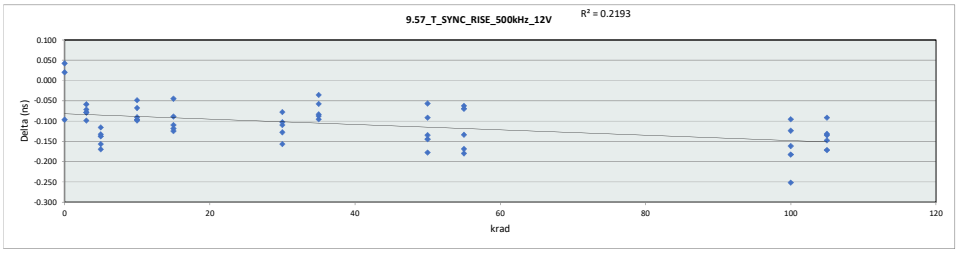


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

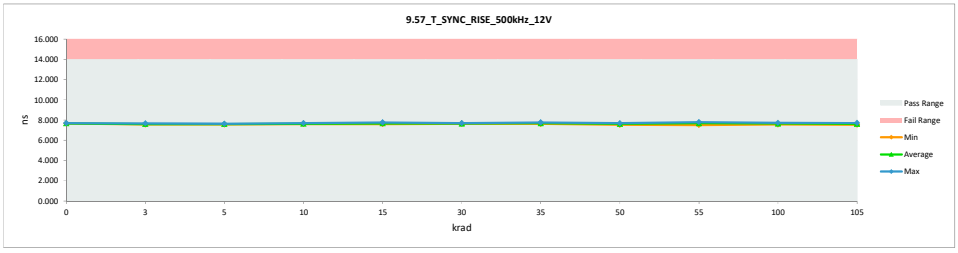
	9.57_T_SYNC_RISE_500kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.636	7.656	0.020
0	69	7.650	7.692	0.042
0	70	7.750	7.653	-0.097
3	1	7.703	7.644	-0.059
3	2	7.626	7.547	-0.079
3	3	7.746	7.674	-0.072
3	4	7.691	7.612	-0.079
3	5	7.676	7.577	-0.099
5	6	7.796	7.626	-0.170
5	7	7.758	7.620	-0.138
5	8	7.750	7.593	-0.157
5	9	7.747	7.631	-0.116
5	10	7.681	7.548	-0.133
10	11	7.799	7.700	-0.099
10	12	7.716	7.667	-0.049
10	13	7.690	7.599	-0.091
10	14	7.696	7.599	-0.097
10	15	7.696	7.628	-0.068
15	16	7.777	7.688	-0.089
15	17	7.718	7.599	-0.119
15	19	7.757	7.632	-0.125
15	20	7.806	7.761	-0.045
15	21	7.786	7.676	-0.110
30	22	7.785	7.628	-0.157
30	23	7.790	7.662	-0.128
30	24	7.768	7.658	-0.110
30	25	7.742	7.639	-0.103
30	26	7.769	7.691	-0.078
35	27	7.813	7.717	-0.096
35	28	7.727	7.639	-0.088
35	29	7.726	7.690	-0.036
35	30	7.812	7.754	-0.058
35	31	7.696	7.612	-0.084
50	32	7.744	7.687	-0.057
50	33	7.716	7.624	-0.092
50	34	7.750	7.605	-0.145
50	35	7.700	7.522	-0.178
50	36	7.812	7.677	-0.135
55	37	7.664	7.495	-0.169
55	38	7.853	7.719	-0.134
55	39	7.864	7.801	-0.063
55	40	7.864	7.684	-0.180
55	41	7.779	7.709	-0.070
100	42	7.824	7.700	-0.124
100	43	7.810	7.558	-0.252
100	44	7.797	7.614	-0.183
100	45	7.822	7.726	-0.096
100	46	7.826	7.664	-0.162
105	47	7.675	7.540	-0.135
105	48	7.773	7.601	-0.172
105	49	7.795	7.663	-0.132
105	50	7.722	7.630	-0.092
105	51	7.857	7.709	-0.148
Max		7.864	7.801	0.042
Average		7.753	7.646	-0.107
Min		7.626	7.495	-0.252
Std Dev		0.060	0.061	0.051



	9.57_T_SYNC_RISE_500kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.653	7.547	7.548	7.599	7.599	7.628	7.612	7.522	7.495	7.558	7.540
Average	7.667	7.611	7.604	7.639	7.671	7.656	7.682	7.623	7.682	7.652	7.629
Max	7.692	7.674	7.631	7.700	7.761	7.691	7.754	7.687	7.801	7.726	7.709
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

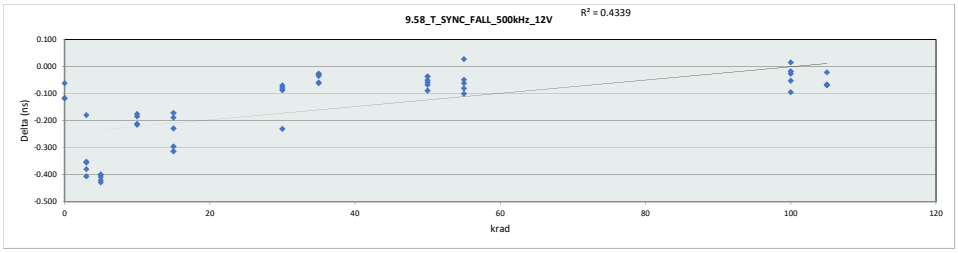


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

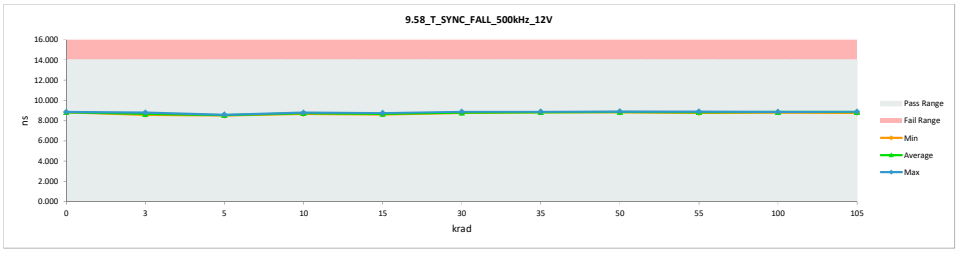
	9.58_T_SYNC_FALL_500kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.955	8.838	-0.117
0	69	8.932	8.814	-0.118
0	70	8.911	8.849	-0.062
3	1	8.968	8.788	-0.180
3	2	9.020	8.668	-0.352
3	3	8.954	8.599	-0.355
3	4	8.990	8.584	-0.406
3	5	9.034	8.654	-0.380
5	6	8.916	8.507	-0.409
5	7	9.013	8.584	-0.429
5	8	9.009	8.588	-0.421
5	9	8.959	8.559	-0.400
5	10	8.932	8.531	-0.401
10	11	8.920	8.744	-0.176
10	12	8.880	8.666	-0.214
10	13	8.950	8.737	-0.213
10	14	8.968	8.783	-0.185
10	15	8.927	8.712	-0.215
15	16	8.856	8.627	-0.229
15	17	8.936	8.640	-0.296
15	19	8.936	8.622	-0.314
15	20	8.896	8.707	-0.189
15	21	8.924	8.752	-0.172
30	22	8.974	8.743	-0.231
30	23	8.846	8.770	-0.076
30	24	8.959	8.871	-0.088
30	25	8.900	8.817	-0.083
30	26	8.860	8.790	-0.070
35	27	8.901	8.842	-0.059
35	28	8.836	8.810	-0.026
35	29	8.879	8.848	-0.031
35	30	8.853	8.818	-0.035
35	31	8.940	8.878	-0.062
50	32	8.890	8.853	-0.037
50	33	8.961	8.902	-0.059
50	34	8.940	8.850	-0.090
50	35	8.932	8.864	-0.068
50	36	8.862	8.811	-0.051
55	37	8.941	8.840	-0.101
55	38	8.842	8.761	-0.081
55	39	8.839	8.866	0.027
55	40	8.899	8.837	-0.062
55	41	8.932	8.883	-0.049
100	42	8.880	8.862	-0.018
100	43	8.889	8.794	-0.095
100	44	8.886	8.859	-0.027
100	45	8.910	8.857	-0.053
100	46	8.845	8.860	0.015
105	47	8.897	8.875	-0.022
105	48	8.935	8.867	-0.068
105	49	8.950	8.882	-0.068
105	50	8.933	8.866	-0.067
105	51	8.845	8.776	-0.069
Max		9.034	8.902	0.027
Average		8.920	8.768	-0.152
Min		8.836	8.507	-0.429
Std Dev		0.049	0.108	0.133



	9.58_T_SYNC_FALL_500kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.814	8.584	8.507	8.666	8.622	8.743	8.810	8.811	8.761	8.794	8.776
Average	8.834	8.659	8.554	8.728	8.670	8.798	8.839	8.856	8.837	8.846	8.853
Max	8.849	8.788	8.588	8.783	8.752	8.871	8.878	8.902	8.883	8.862	8.882
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

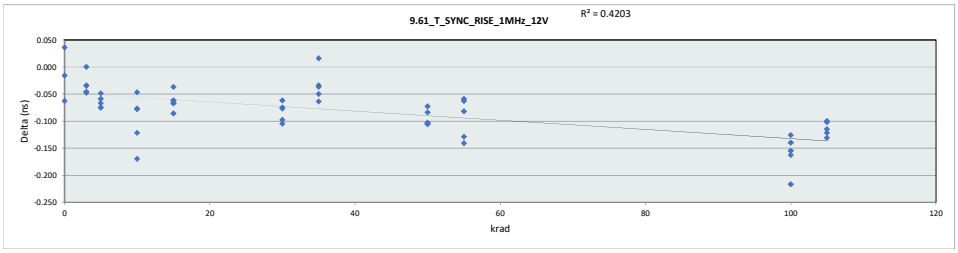


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

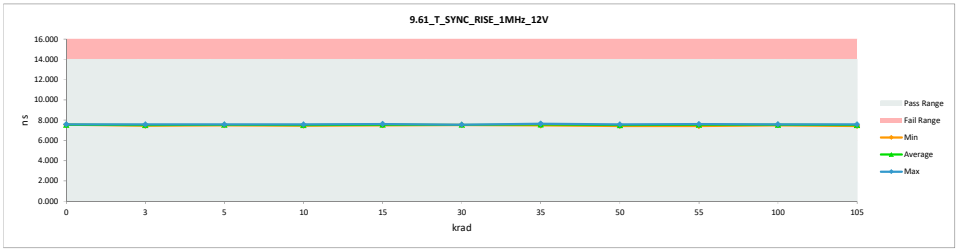
	9.61_T_SYNC_RISE_1MHz_12	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.504	7.540	0.036
0	69	7.603	7.540	-0.063
0	70	7.601	7.585	-0.016
3	1	7.546	7.546	0.000
3	2	7.492	7.446	-0.046
3	3	7.619	7.571	-0.048
3	4	7.563	7.528	-0.035
3	5	7.518	7.484	-0.034
5	6	7.647	7.572	-0.075
5	7	7.601	7.526	-0.075
5	8	7.581	7.532	-0.049
5	9	7.623	7.564	-0.059
5	10	7.565	7.498	-0.067
10	11	7.745	7.575	-0.170
10	12	7.579	7.532	-0.047
10	13	7.537	7.460	-0.077
10	14	7.585	7.463	-0.122
10	15	7.621	7.543	-0.078
15	16	7.661	7.594	-0.067
15	17	7.568	7.501	-0.067
15	19	7.593	7.507	-0.086
15	20	7.668	7.631	-0.037
15	21	7.623	7.561	-0.062
30	22	7.614	7.509	-0.105
30	23	7.621	7.546	-0.075
30	24	7.646	7.548	-0.098
30	25	7.616	7.554	-0.062
30	26	7.633	7.556	-0.077
35	27	7.682	7.618	-0.064
35	28	7.587	7.537	-0.050
35	29	7.599	7.562	-0.037
35	30	7.638	7.654	0.016
35	31	7.513	7.479	-0.034
50	32	7.629	7.524	-0.105
50	33	7.595	7.522	-0.073
50	34	7.557	7.473	-0.084
50	35	7.533	7.427	-0.106
50	36	7.674	7.571	-0.103
55	37	7.480	7.421	-0.059
55	38	7.677	7.614	-0.063
55	39	7.729	7.588	-0.141
55	40	7.651	7.522	-0.129
55	41	7.646	7.564	-0.082
100	42	7.716	7.590	-0.126
100	43	7.666	7.503	-0.163
100	44	7.677	7.522	-0.155
100	45	7.728	7.588	-0.140
100	46	7.765	7.548	-0.217
105	47	7.529	7.427	-0.102
105	48	7.608	7.508	-0.100
105	49	7.665	7.534	-0.131
105	50	7.601	7.486	-0.115
105	51	7.698	7.576	-0.122
Max		7.765	7.654	0.036
Average		7.615	7.535	-0.080
Min		7.480	7.421	-0.217
Std Dev		0.065	0.051	0.047



	9.61_T_SYNC_RISE_1MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.540	7.446	7.498	7.460	7.501	7.509	7.479	7.427	7.421	7.503	7.427
Average	7.555	7.515	7.538	7.515	7.559	7.543	7.570	7.503	7.542	7.550	7.506
Max	7.585	7.571	7.572	7.575	7.631	7.556	7.654	7.571	7.614	7.590	7.576
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

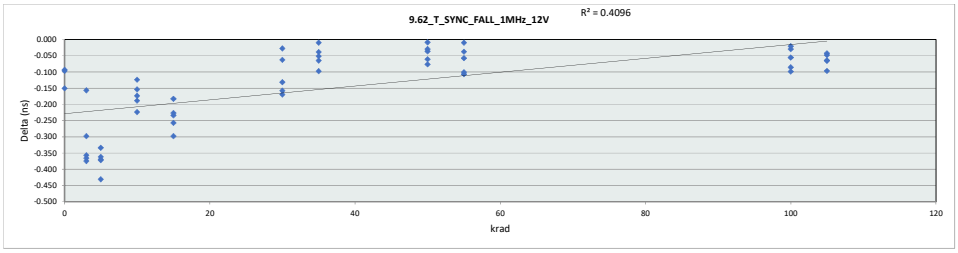


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

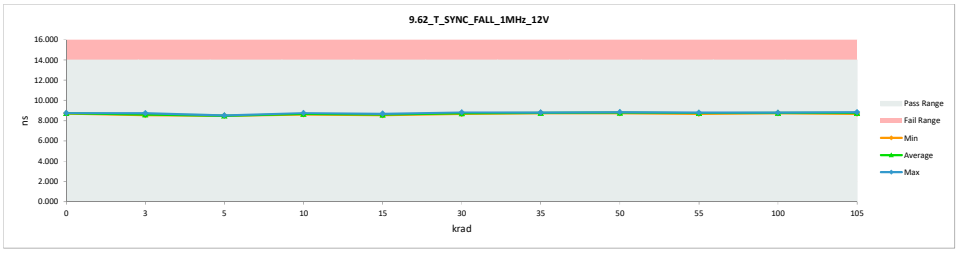
	9.62_T_SYNC_FALL_1MHz_12	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.846	8.752	-0.094
0	69	8.829	8.732	-0.097
0	70	8.861	8.710	-0.151
3	1	8.898	8.741	-0.157
3	2	8.914	8.616	-0.298
3	3	8.894	8.537	-0.357
3	4	8.922	8.556	-0.366
3	5	8.954	8.579	-0.375
5	6	8.798	8.464	-0.334
5	7	8.879	8.517	-0.362
5	8	8.886	8.516	-0.370
5	9	8.899	8.468	-0.431
5	10	8.854	8.482	-0.372
10	11	8.828	8.639	-0.189
10	12	8.780	8.626	-0.154
10	13	8.854	8.680	-0.174
10	14	8.866	8.742	-0.124
10	15	8.829	8.605	-0.224
15	16	8.780	8.523	-0.257
15	17	8.875	8.577	-0.298
15	19	8.825	8.591	-0.234
15	20	8.839	8.612	-0.227
15	21	8.868	8.685	-0.183
30	22	8.851	8.681	-0.170
30	23	8.821	8.663	-0.158
30	24	8.876	8.813	-0.063
30	25	8.851	8.719	-0.132
30	26	8.767	8.739	-0.028
35	27	8.829	8.764	-0.065
35	28	8.771	8.732	-0.039
35	29	8.811	8.759	-0.052
35	30	8.752	8.742	-0.010
35	31	8.903	8.805	-0.098
50	32	8.789	8.780	-0.009
50	33	8.869	8.832	-0.037
50	34	8.854	8.824	-0.030
50	35	8.851	8.774	-0.077
50	36	8.782	8.721	-0.061
55	37	8.871	8.764	-0.107
55	38	8.774	8.673	-0.101
55	39	8.759	8.749	-0.010
55	40	8.818	8.760	-0.058
55	41	8.831	8.793	-0.038
100	42	8.802	8.772	-0.030
100	43	8.832	8.746	-0.086
100	44	8.802	8.781	-0.021
100	45	8.825	8.769	-0.056
100	46	8.822	8.723	-0.099
105	47	8.814	8.771	-0.043
105	48	8.862	8.797	-0.065
105	49	8.868	8.820	-0.048
105	50	8.813	8.716	-0.097
105	51	8.752	8.687	-0.065
Max		8.954	8.832	-0.009
Average		8.838	8.691	-0.147
Min		8.752	8.464	-0.431
Std Dev		0.046	0.101	0.120



	9.62_T_SYNC_FALL_1MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.710	8.537	8.464	8.605	8.523	8.663	8.732	8.721	8.673	8.723	8.687
Average	8.731	8.606	8.489	8.658	8.598	8.723	8.760	8.786	8.748	8.758	8.758
Max	8.752	8.741	8.517	8.742	8.685	8.813	8.805	8.832	8.793	8.781	8.820
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

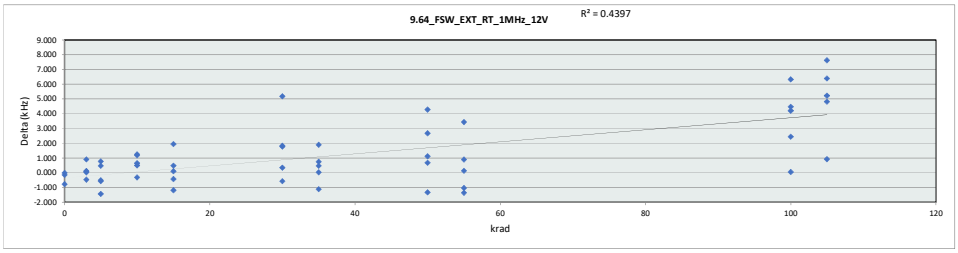


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

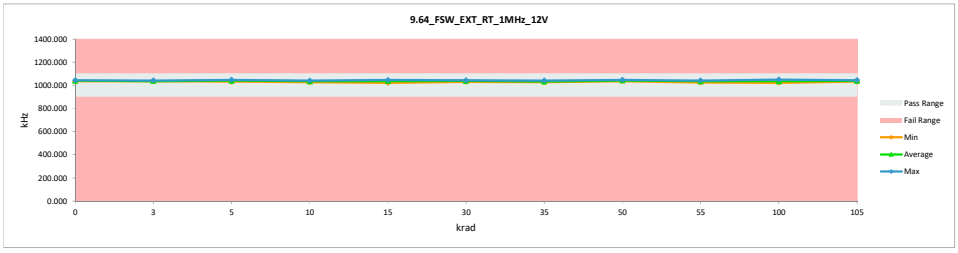
	9.64_FSW_EXT_RT_1MHz_12V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1044.059	1043.273	-0.786
0	69	1034.563	1034.408	-0.155
0	70	1041.880	1041.859	-0.021
3	1	1034.678	1034.199	-0.479
3	2	1035.038	1035.929	0.891
3	3	1035.971	1036.050	0.079
3	4	1033.896	1033.997	0.101
3	5	1041.917	1041.928	0.011
5	6	1047.319	1048.080	0.761
5	7	1040.982	1040.456	-0.526
5	8	1047.149	1045.699	-1.450
5	9	1034.196	1033.608	-0.588
5	10	1037.966	1038.426	0.460
10	11	1025.428	1025.915	0.487
10	12	1040.066	1040.697	0.631
10	13	1037.596	1038.831	1.235
10	14	1041.591	1041.269	-0.322
10	15	1029.449	1030.615	1.166
15	16	1021.108	1021.573	0.465
15	17	1045.141	1045.231	0.090
15	19	1046.768	1046.322	-0.446
15	20	1028.822	1027.624	-1.198
15	21	1038.092	1040.027	1.935
30	22	1034.916	1035.250	0.334
30	23	1036.049	1037.868	1.819
30	24	1029.061	1030.826	1.765
30	25	1037.697	1042.867	5.170
30	26	1042.909	1042.321	-0.588
35	27	1033.615	1032.492	-1.123
35	28	1040.481	1040.941	0.460
35	29	1035.071	1035.094	0.023
35	30	1025.311	1027.186	1.875
35	31	1028.259	1028.992	0.733
50	32	1033.706	1036.364	2.658
50	33	1035.884	1040.153	4.269
50	34	1039.379	1040.484	1.105
50	35	1045.382	1044.041	-1.341
50	36	1047.040	1047.703	0.663
55	37	1043.571	1042.527	-1.044
55	38	1034.904	1035.021	0.117
55	39	1021.409	1024.840	3.431
55	40	1038.066	1036.700	-1.366
55	41	1031.755	1032.640	0.885
100	42	1023.011	1023.050	0.039
100	43	1045.923	1050.384	4.461
100	44	1029.719	1036.037	6.318
100	45	1027.901	1032.094	4.193
100	46	1024.755	1027.188	2.433
105	47	1043.559	1044.468	0.909
105	48	1038.442	1043.657	5.215
105	49	1030.047	1037.657	7.610
105	50	1027.698	1034.080	6.382
105	51	1027.671	1032.479	4.808
	Max	1047.319	1050.384	7.610
	Average	1035.790	1037.008	1.218
	Min	1021.108	1021.573	-1.450
	Std Dev	7.158	6.712	2.203



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000
Min	1034.408	1033.997	1033.608	1025.915	1021.573	1030.826	1027.186	1036.364	1024.840	1023.050	1032.479
Average	1039.847	1036.421	1041.254	1035.465	1036.155	1037.826	1032.941	1041.749	1034.346	1033.751	1038.468
Max	1043.273	1041.928	1048.080	1041.269	1046.322	1042.867	1040.941	1047.703	1042.527	1050.384	1044.468
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

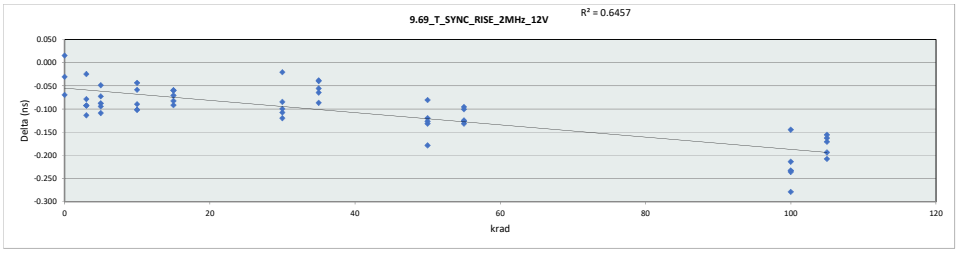


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

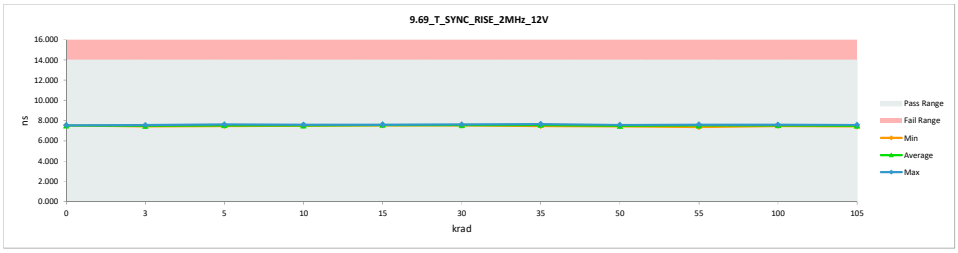
	9.69_T_SYNC_RISE_2MHz_12	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.501	7.516	0.015
0	69	7.543	7.512	-0.031
0	70	7.613	7.543	-0.070
3	1	7.532	7.507	-0.025
3	2	7.514	7.435	-0.079
3	3	7.651	7.558	-0.093
3	4	7.605	7.512	-0.093
3	5	7.553	7.439	-0.114
5	6	7.710	7.622	-0.088
5	7	7.591	7.518	-0.073
5	8	7.622	7.573	-0.049
5	9	7.621	7.526	-0.095
5	10	7.585	7.476	-0.109
10	11	7.636	7.592	-0.044
10	12	7.625	7.523	-0.102
10	13	7.558	7.499	-0.059
10	14	7.595	7.493	-0.102
10	15	7.621	7.531	-0.090
15	16	7.652	7.592	-0.060
15	17	7.588	7.528	-0.060
15	19	7.622	7.551	-0.071
15	20	7.692	7.609	-0.083
15	21	7.644	7.552	-0.092
30	22	7.654	7.534	-0.120
30	23	7.620	7.512	-0.108
30	24	7.639	7.618	-0.021
30	25	7.605	7.520	-0.085
30	26	7.670	7.570	-0.100
35	27	7.665	7.600	-0.065
35	28	7.608	7.569	-0.039
35	29	7.599	7.559	-0.040
35	30	7.713	7.657	-0.056
35	31	7.562	7.475	-0.087
50	32	7.579	7.498	-0.081
50	33	7.623	7.503	-0.120
50	34	7.631	7.452	-0.179
50	35	7.569	7.437	-0.132
50	36	7.716	7.589	-0.127
55	37	7.485	7.360	-0.125
55	38	7.706	7.610	-0.096
55	39	7.737	7.605	-0.132
55	40	7.659	7.558	-0.101
55	41	7.680	7.553	-0.127
100	42	7.739	7.594	-0.145
100	43	7.745	7.509	-0.236
100	44	7.764	7.485	-0.279
100	45	7.797	7.564	-0.233
100	46	7.760	7.546	-0.214
105	47	7.586	7.423	-0.163
105	48	7.683	7.512	-0.171
105	49	7.721	7.527	-0.194
105	50	7.632	7.476	-0.156
105	51	7.793	7.585	-0.208
Max		7.797	7.657	0.015
Average		7.638	7.532	-0.106
Min		7.485	7.360	-0.279
Std Dev		0.073	0.058	0.059



	9.69_T_SYNC_RISE_2MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.512	7.435	7.476	7.493	7.528	7.512	7.475	7.437	7.360	7.485	7.423
Average	7.524	7.490	7.543	7.528	7.566	7.551	7.572	7.496	7.537	7.540	7.505
Max	7.543	7.558	7.622	7.592	7.609	7.618	7.657	7.589	7.610	7.594	7.585
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

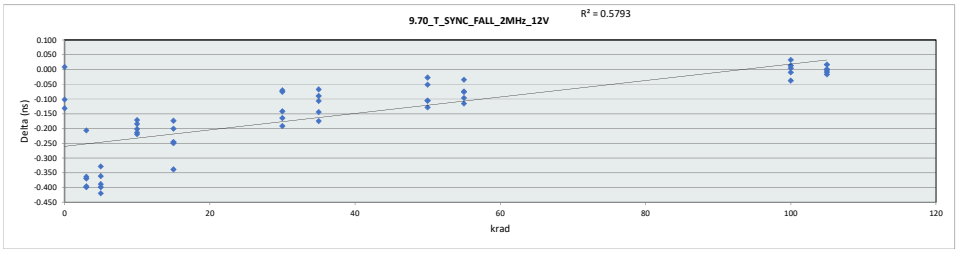


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

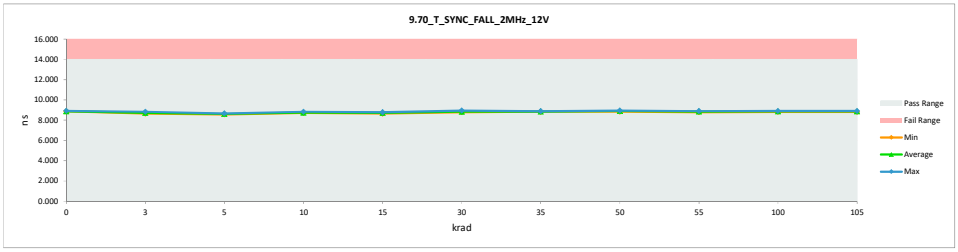
	9.70_T_SYNC_FALL_2MHz_12	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.910	8.918	0.008
0	69	8.976	8.874	-0.102
0	70	9.001	8.869	-0.132
3	1	9.038	8.831	-0.207
3	2	9.075	8.711	-0.364
3	3	9.053	8.683	-0.370
3	4	9.053	8.654	-0.399
3	5	9.094	8.698	-0.396
5	6	8.908	8.579	-0.329
5	7	9.032	8.670	-0.362
5	8	9.028	8.639	-0.389
5	9	9.002	8.603	-0.399
5	10	8.995	8.575	-0.420
10	11	8.957	8.743	-0.214
10	12	8.899	8.727	-0.172
10	13	8.979	8.794	-0.185
10	14	9.034	8.832	-0.202
10	15	8.925	8.705	-0.220
15	16	8.898	8.652	-0.246
15	17	9.035	8.696	-0.339
15	19	8.970	8.720	-0.250
15	20	8.931	8.730	-0.201
15	21	8.962	8.788	-0.174
30	22	8.996	8.804	-0.192
30	23	8.938	8.796	-0.142
30	24	9.015	8.944	-0.071
30	25	9.006	8.841	-0.165
30	26	8.911	8.835	-0.076
35	27	8.987	8.842	-0.145
35	28	8.906	8.838	-0.068
35	29	8.973	8.866	-0.107
35	30	8.931	8.841	-0.090
35	31	9.059	8.884	-0.175
50	32	8.882	8.854	-0.028
50	33	9.059	8.953	-0.106
50	34	9.016	8.910	-0.106
50	35	8.984	8.932	-0.052
50	36	8.968	8.839	-0.129
55	37	8.932	8.897	-0.035
55	38	8.913	8.797	-0.116
55	39	8.926	8.850	-0.076
55	40	8.937	8.862	-0.075
55	41	8.984	8.887	-0.097
100	42	8.892	8.854	-0.038
100	43	8.886	8.890	0.004
100	44	8.883	8.896	0.013
100	45	8.878	8.910	0.032
100	46	8.829	8.819	-0.010
105	47	8.884	8.875	-0.009
105	48	8.917	8.900	-0.017
105	49	8.899	8.915	0.016
105	50	8.880	8.880	0.000
105	51	8.822	8.821	-0.001
Max		9.094	8.953	0.032
Average		8.959	8.806	-0.153
Min		8.822	8.575	-0.420
Std Dev		0.065	0.099	0.131



	9.70_T_SYNC_FALL_2MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.869	8.654	8.575	8.705	8.652	8.796	8.838	8.839	8.797	8.819	8.821
Average	8.887	8.715	8.613	8.760	8.717	8.844	8.854	8.898	8.859	8.874	8.878
Max	8.918	8.831	8.670	8.832	8.788	8.944	8.884	8.953	8.897	8.910	8.915
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

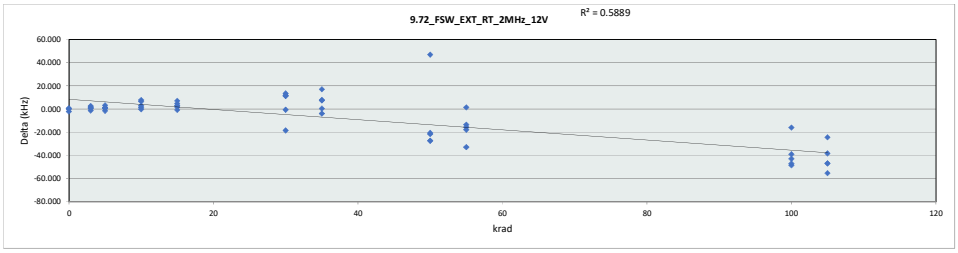


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

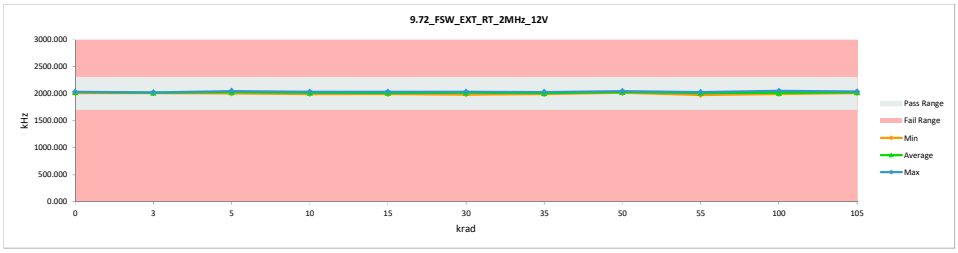
	9.72_FSW_EXT_RT_2MHz_12V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2035.446	2033.104	-2.342
0	69	2013.071	2012.925	-0.146
0	70	2030.689	2031.234	0.545
3	1	2013.282	2011.838	-1.444
3	2	2015.010	2017.475	2.465
3	3	2022.363	2023.914	1.551
3	4	2007.787	2008.957	1.170
3	5	2023.514	2023.890	0.376
5	6	2046.760	2049.782	3.022
5	7	2010.852	2011.106	0.254
5	8	2046.153	2044.509	-1.644
5	9	2002.945	2003.845	0.900
5	10	2027.356	2028.478	1.122
10	11	1991.708	1994.487	2.779
10	12	2029.290	2036.852	7.562
10	13	2015.664	2021.964	6.300
10	14	2026.669	2026.390	-0.279
10	15	2006.357	2007.568	1.211
15	16	1984.587	1989.106	4.519
15	17	2026.683	2029.568	2.885
15	19	2034.082	2035.604	1.522
15	20	1991.551	1990.620	-0.931
15	21	2003.721	2010.665	6.944
30	22	2028.845	2010.215	-18.630
30	23	2025.028	2024.199	-0.829
30	24	1972.261	1983.335	11.074
30	25	2011.469	2024.691	13.222
30	26	2025.923	2037.474	11.551
35	27	1997.932	2005.685	7.753
35	28	2015.435	2032.351	16.916
35	29	2015.525	2011.431	-4.094
35	30	1996.069	1996.338	0.269
35	31	1989.857	1997.103	7.246
50	32	1977.770	2024.537	46.767
50	33	2046.755	2025.059	-21.696
50	34	2041.163	2013.537	-27.626
50	35	2067.924	2047.111	-20.813
50	36	2058.512	2030.965	-27.547
55	37	2044.912	2029.242	-15.670
55	38	2028.550	2010.560	-17.990
55	39	2006.388	1973.381	-33.007
55	40	2038.659	2025.023	-13.636
55	41	2020.007	2021.257	1.250
100	42	2037.691	1998.544	-39.147
100	43	2099.264	2051.978	-47.286
100	44	2039.670	2023.505	-16.165
100	45	2054.821	2006.148	-48.673
100	46	2039.153	1995.991	-43.162
105	47	2090.623	2035.127	-55.496
105	48	2085.151	2038.123	-47.028
105	49	2065.985	2018.891	-47.094
105	50	2046.292	2007.841	-38.451
105	51	2043.905	2019.373	-24.532
	Max	2099.264	2051.978	46.767
	Average	2026.737	2018.168	-8.569
	Min	1972.261	1973.381	-55.496
	Std Dev	26.816	17.129	20.490



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000
Min	2012.925	2008.957	2003.845	1994.487	1989.106	1983.335	1996.338	2013.537	1973.381	1995.991	2007.841
Average	2025.754	2017.215	2027.544	2017.452	2011.113	2015.983	2008.582	2028.242	2011.893	2015.233	2023.871
Max	2033.104	2023.914	2049.782	2036.852	2035.604	2037.474	2032.351	2047.111	2029.242	2051.978	2038.123
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

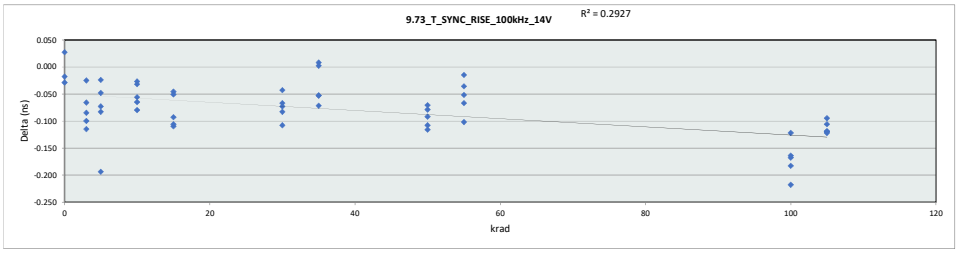


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

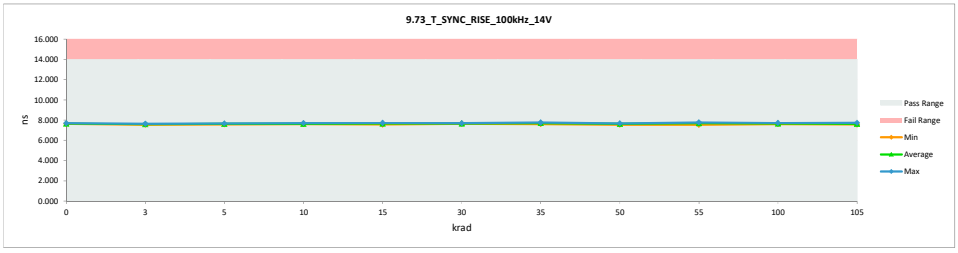
	9.73_T_SYNC_RISE_100kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.597	7.624	0.027
0	69	7.657	7.628	-0.029
0	70	7.706	7.688	-0.018
3	1	7.652	7.627	-0.025
3	2	7.628	7.543	-0.085
3	3	7.738	7.638	-0.100
3	4	7.693	7.578	-0.115
3	5	7.610	7.544	-0.066
5	6	7.858	7.664	-0.194
5	7	7.628	7.604	-0.024
5	8	7.666	7.618	-0.048
5	9	7.747	7.664	-0.083
5	10	7.645	7.572	-0.073
10	11	7.773	7.693	-0.080
10	12	7.721	7.656	-0.065
10	13	7.623	7.591	-0.032
10	14	7.638	7.611	-0.027
10	15	7.707	7.651	-0.056
15	16	7.801	7.708	-0.093
15	17	7.669	7.559	-0.110
15	19	7.696	7.645	-0.051
15	20	7.798	7.692	-0.106
15	21	7.702	7.656	-0.046
30	22	7.680	7.637	-0.043
30	23	7.715	7.648	-0.067
30	24	7.772	7.664	-0.108
30	25	7.764	7.691	-0.073
30	26	7.764	7.681	-0.083
35	27	7.792	7.739	-0.053
35	28	7.688	7.696	0.008
35	29	7.707	7.709	0.002
35	30	7.817	7.745	-0.072
35	31	7.657	7.604	-0.053
50	32	7.719	7.648	-0.071
50	33	7.709	7.630	-0.079
50	34	7.694	7.586	-0.108
50	35	7.637	7.545	-0.092
50	36	7.794	7.678	-0.116
55	37	7.547	7.532	-0.015
55	38	7.828	7.726	-0.102
55	39	7.813	7.761	-0.052
55	40	7.713	7.677	-0.036
55	41	7.777	7.710	-0.067
100	42	7.830	7.708	-0.122
100	43	7.798	7.615	-0.183
100	44	7.798	7.634	-0.164
100	45	7.872	7.704	-0.168
100	46	7.870	7.652	-0.218
105	47	7.683	7.561	-0.122
105	48	7.735	7.616	-0.119
105	49	7.743	7.637	-0.106
105	50	7.723	7.603	-0.120
105	51	7.819	7.724	-0.095
Max		7.872	7.761	0.027
Average		7.725	7.646	-0.079
Min		7.547	7.532	-0.218
Std Dev		0.075	0.056	0.050



	9.73_T_SYNC_RISE_100kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.624	7.543	7.572	7.591	7.559	7.637	7.604	7.545	7.532	7.615	7.561
Average	7.647	7.586	7.624	7.640	7.652	7.664	7.699	7.617	7.681	7.663	7.628
Max	7.688	7.638	7.664	7.693	7.708	7.691	7.745	7.678	7.761	7.708	7.724
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

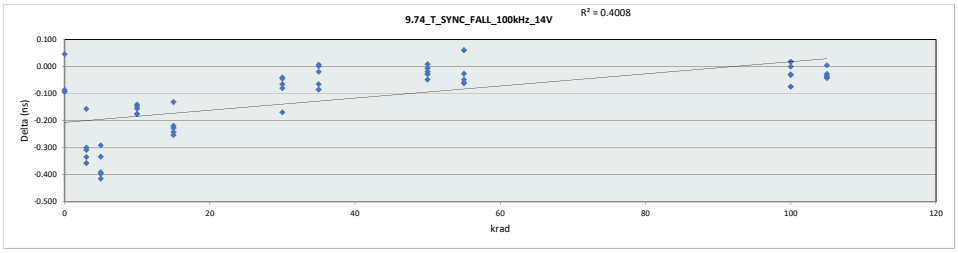


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

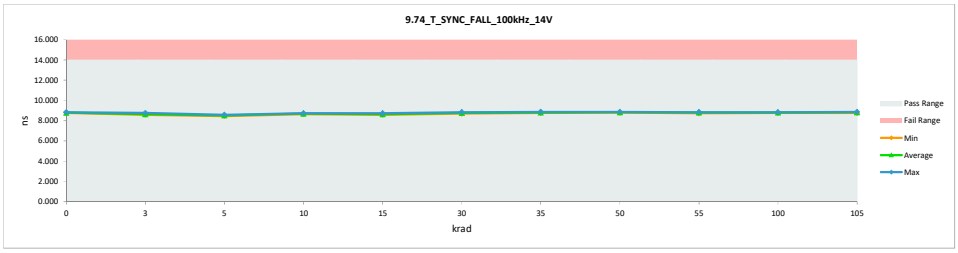
	9.74_T_SYNC_FALL_100kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.781	8.826	0.045
0	69	8.870	8.776	-0.094
0	70	8.866	8.779	-0.087
3	1	8.915	8.758	-0.157
3	2	8.983	8.625	-0.358
3	3	8.897	8.588	-0.309
3	4	8.926	8.591	-0.335
3	5	8.932	8.632	-0.300
5	6	8.877	8.462	-0.415
5	7	8.878	8.586	-0.292
5	8	8.906	8.514	-0.392
5	9	8.897	8.500	-0.397
5	10	8.846	8.512	-0.334
10	11	8.881	8.705	-0.176
10	12	8.820	8.644	-0.176
10	13	8.849	8.701	-0.148
10	14	8.882	8.741	-0.141
10	15	8.827	8.671	-0.156
15	16	8.808	8.588	-0.220
15	17	8.854	8.600	-0.254
15	19	8.843	8.615	-0.228
15	20	8.873	8.630	-0.243
15	21	8.857	8.725	-0.132
30	22	8.859	8.689	-0.170
30	23	8.765	8.684	-0.081
30	24	8.881	8.836	-0.045
30	25	8.866	8.800	-0.066
30	26	8.820	8.779	-0.041
35	27	8.861	8.775	-0.086
35	28	8.825	8.805	-0.020
35	29	8.853	8.787	-0.066
35	30	8.790	8.791	0.001
35	31	8.861	8.867	0.006
50	32	8.838	8.818	-0.020
50	33	8.901	8.872	-0.029
50	34	8.831	8.839	0.008
50	35	8.866	8.817	-0.049
50	36	8.789	8.782	-0.007
55	37	8.880	8.820	-0.060
55	38	8.746	8.719	-0.027
55	39	8.786	8.846	0.060
55	40	8.876	8.813	-0.063
55	41	8.888	8.839	-0.049
100	42	8.854	8.779	-0.075
100	43	8.805	8.822	0.017
100	44	8.845	8.815	-0.030
100	45	8.822	8.821	-0.001
100	46	8.796	8.764	-0.032
105	47	8.846	8.805	-0.041
105	48	8.863	8.827	-0.036
105	49	8.863	8.867	0.004
105	50	8.867	8.824	-0.043
105	51	8.780	8.752	-0.028
Max		8.983	8.872	0.060
Average		8.853	8.733	-0.120
Min		8.746	8.462	-0.415
Std Dev		0.045	0.108	0.127



	9.74_T_SYNC_FALL_100kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.776	8.588	8.462	8.644	8.588	8.684	8.775	8.782	8.719	8.764	8.752
Average	8.794	8.639	8.515	8.692	8.632	8.758	8.805	8.826	8.807	8.800	8.815
Max	8.826	8.758	8.586	8.741	8.725	8.836	8.867	8.872	8.846	8.822	8.867
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

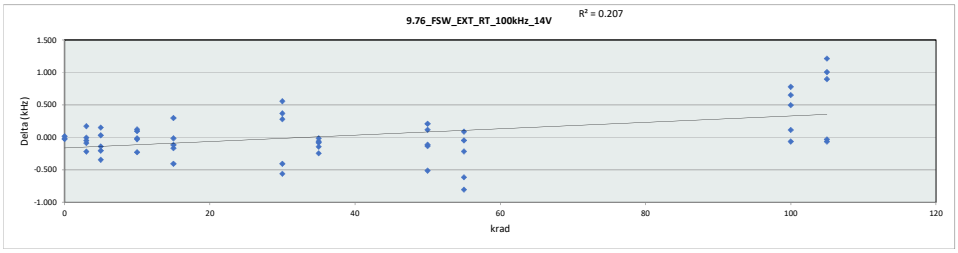


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

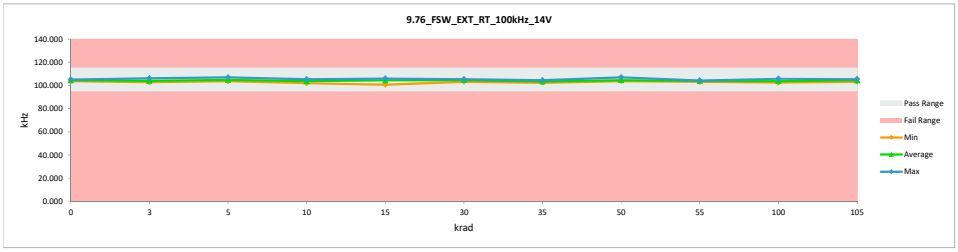
	9.76_FSW_EXT_RT_100kHz_1	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	104.658	104.633	-0.025
0	69	103.559	103.574	0.015
0	70	105.135	105.111	-0.024
3	1	103.083	102.862	-0.221
3	2	102.632	102.803	0.171
3	3	103.864	103.774	-0.090
3	4	104.394	104.388	-0.006
3	5	106.205	106.154	-0.051
5	6	106.725	106.873	0.148
5	7	105.206	104.999	-0.207
5	8	104.870	104.524	-0.346
5	9	103.867	103.724	-0.143
5	10	103.905	103.934	0.029
10	11	103.301	103.271	-0.030
10	12	101.756	101.851	0.095
10	13	104.648	104.631	-0.017
10	14	105.562	105.331	-0.231
10	15	102.697	102.819	0.122
15	16	100.762	100.594	-0.168
15	17	105.911	105.794	-0.117
15	19	106.029	106.013	-0.016
15	20	104.108	103.700	-0.408
15	21	105.615	105.911	0.296
30	22	104.808	104.399	-0.409
30	23	102.829	103.107	0.278
30	24	104.737	105.105	0.368
30	25	104.719	105.274	0.555
30	26	105.147	104.584	-0.563
35	27	103.033	102.969	-0.064
35	28	104.546	104.462	-0.084
35	29	103.833	103.686	-0.147
35	30	102.584	102.336	-0.248
35	31	103.659	103.642	-0.017
50	32	103.788	103.672	-0.116
50	33	103.775	103.982	0.207
50	34	104.495	104.360	-0.135
50	35	104.528	104.013	-0.515
50	36	106.940	107.055	0.115
55	37	105.097	104.290	-0.807
55	38	104.102	104.189	0.087
55	39	103.714	103.665	-0.049
55	40	103.769	103.152	-0.617
55	41	103.990	103.772	-0.218
100	42	102.728	102.840	0.112
100	43	105.128	105.779	0.651
100	44	103.003	103.498	0.495
100	45	103.537	104.314	0.777
100	46	102.497	102.431	-0.066
105	47	104.726	104.659	-0.067
105	48	104.446	105.451	1.005
105	49	103.530	104.742	1.212
105	50	103.168	104.063	0.895
105	51	103.154	103.122	-0.032
Max		106.940	107.055	1.212
Average		104.123	104.149	0.026
Min		100.762	100.594	-0.807
Std Dev		1.214	1.235	0.386



	9.76_FSW_EXT_RT_100kHz_14	
Test Site		
Tester		
Test Number		
Max Limit	115	kHz
Min Limit	95	kHz

krad	0	3	5	10	15	30	35	50	55	100	105
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	103.574	102.803	103.724	101.851	100.594	103.107	102.336	103.672	103.152	102.431	103.122
Average	104.439	103.996	104.811	103.581	104.402	104.494	103.419	104.616	103.814	103.772	104.407
Max	105.111	106.154	106.873	105.331	106.013	105.274	104.462	107.055	104.290	105.779	105.451
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

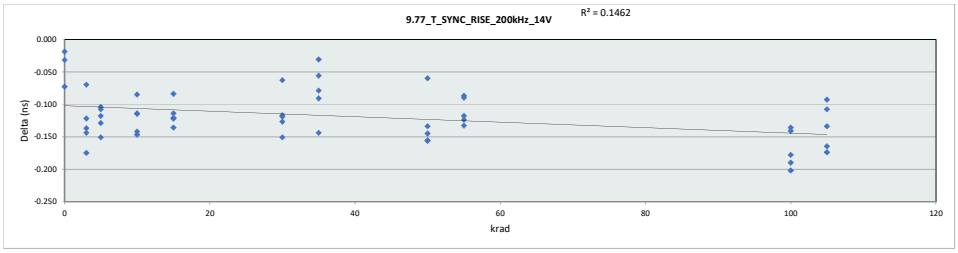


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

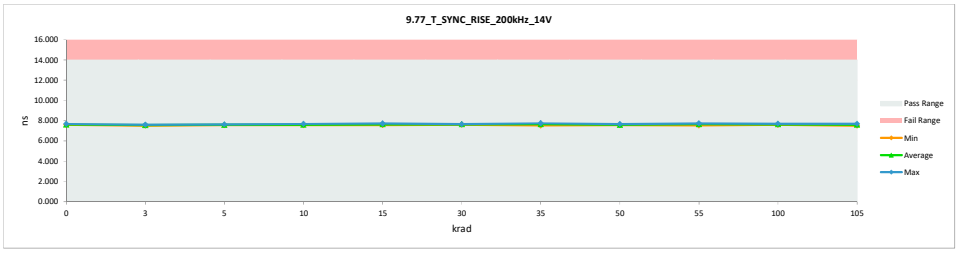
	9.77_T_SYNC_RISE_200kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.608	7.589	-0.019
0	69	7.658	7.585	-0.073
0	70	7.704	7.672	-0.032
3	1	7.663	7.593	-0.070
3	2	7.652	7.508	-0.144
3	3	7.767	7.592	-0.175
3	4	7.694	7.557	-0.137
3	5	7.642	7.520	-0.122
5	6	7.749	7.620	-0.129
5	7	7.695	7.577	-0.118
5	8	7.699	7.548	-0.151
5	9	7.715	7.611	-0.104
5	10	7.663	7.555	-0.108
10	11	7.785	7.670	-0.115
10	12	7.725	7.611	-0.114
10	13	7.647	7.562	-0.085
10	14	7.694	7.552	-0.142
10	15	7.746	7.599	-0.147
15	16	7.794	7.673	-0.121
15	17	7.696	7.560	-0.136
15	19	7.713	7.599	-0.114
15	20	7.793	7.709	-0.084
15	21	7.751	7.629	-0.122
30	22	7.744	7.593	-0.151
30	23	7.755	7.636	-0.119
30	24	7.774	7.647	-0.127
30	25	7.707	7.644	-0.063
30	26	7.772	7.655	-0.117
35	27	7.754	7.723	-0.031
35	28	7.694	7.638	-0.056
35	29	7.732	7.641	-0.091
35	30	7.817	7.738	-0.079
35	31	7.667	7.523	-0.144
50	32	7.764	7.619	-0.145
50	33	7.707	7.551	-0.156
50	34	7.705	7.549	-0.156
50	35	7.613	7.553	-0.060
50	36	7.794	7.660	-0.134
55	37	7.613	7.526	-0.087
55	38	7.829	7.696	-0.133
55	39	7.846	7.722	-0.124
55	40	7.744	7.626	-0.118
55	41	7.777	7.687	-0.090
100	42	7.846	7.705	-0.141
100	43	7.773	7.583	-0.190
100	44	7.793	7.591	-0.202
100	45	7.821	7.685	-0.136
100	46	7.825	7.647	-0.178
105	47	7.673	7.508	-0.165
105	48	7.761	7.587	-0.174
105	49	7.762	7.654	-0.108
105	50	7.712	7.578	-0.134
105	51	7.787	7.694	-0.093
Max		7.846	7.738	-0.019
Average		7.732	7.614	-0.118
Min		7.608	7.508	-0.202
Std Dev		0.061	0.060	0.040



	9.77_T_SYNC_RISE_200kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.585	7.508	7.548	7.552	7.560	7.593	7.523	7.549	7.526	7.583	7.508
Average	7.615	7.554	7.582	7.599	7.634	7.635	7.653	7.586	7.651	7.642	7.604
Max	7.672	7.593	7.620	7.670	7.709	7.655	7.738	7.660	7.722	7.705	7.694
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

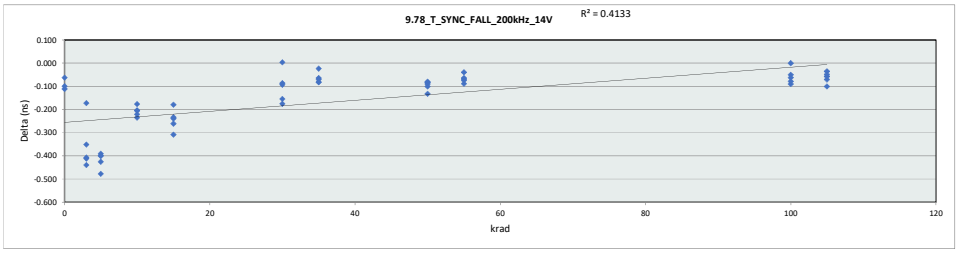


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

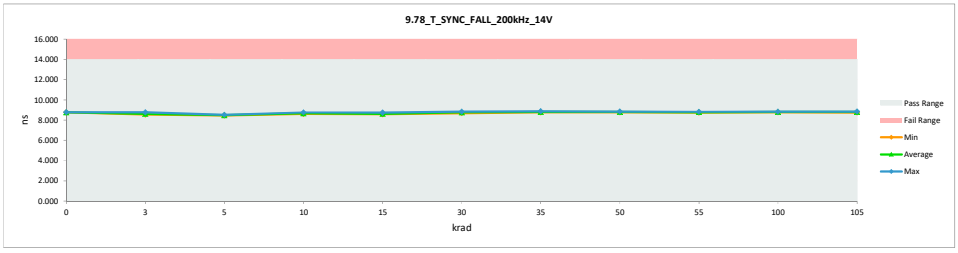
	9.78_T_SYNC_FALL_200kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.821	8.758	-0.063
0	69	8.891	8.779	-0.112
0	70	8.869	8.769	-0.100
3	1	8.940	8.767	-0.173
3	2	8.964	8.612	-0.352
3	3	8.941	8.529	-0.412
3	4	8.947	8.539	-0.408
3	5	8.989	8.549	-0.440
5	6	8.831	8.440	-0.391
5	7	8.936	8.510	-0.426
5	8	8.922	8.521	-0.401
5	9	8.941	8.463	-0.478
5	10	8.887	8.488	-0.399
10	11	8.915	8.679	-0.236
10	12	8.819	8.615	-0.204
10	13	8.879	8.673	-0.206
10	14	8.924	8.747	-0.177
10	15	8.871	8.650	-0.221
15	16	8.808	8.574	-0.234
15	17	8.899	8.590	-0.309
15	19	8.867	8.605	-0.262
15	20	8.888	8.648	-0.240
15	21	8.903	8.723	-0.180
30	22	8.892	8.716	-0.176
30	23	8.832	8.677	-0.155
30	24	8.913	8.826	-0.087
30	25	8.855	8.761	-0.094
30	26	8.777	8.780	0.003
35	27	8.879	8.796	-0.083
35	28	8.835	8.764	-0.071
35	29	8.833	8.768	-0.065
35	30	8.806	8.782	-0.024
35	31	8.950	8.868	-0.082
50	32	8.867	8.766	-0.101
50	33	8.929	8.838	-0.091
50	34	8.907	8.826	-0.081
50	35	8.890	8.757	-0.133
50	36	8.839	8.755	-0.084
55	37	8.883	8.813	-0.070
55	38	8.797	8.722	-0.075
55	39	8.828	8.788	-0.040
55	40	8.846	8.757	-0.089
55	41	8.886	8.821	-0.065
100	42	8.858	8.795	-0.063
100	43	8.848	8.757	-0.091
100	44	8.863	8.784	-0.079
100	45	8.835	8.834	-0.001
100	46	8.832	8.781	-0.051
105	47	8.874	8.803	-0.071
105	48	8.888	8.787	-0.101
105	49	8.887	8.838	-0.049
105	50	8.850	8.792	-0.058
105	51	8.768	8.732	-0.036
Max		8.989	8.868	0.003
Average		8.875	8.712	-0.164
Min		8.768	8.440	-0.478
Std Dev		0.049	0.111	0.132



	9.78_T_SYNC_FALL_200kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.758	8.529	8.440	8.615	8.574	8.677	8.764	8.755	8.722	8.757	8.732
Average	8.769	8.599	8.484	8.673	8.628	8.752	8.796	8.788	8.780	8.790	8.790
Max	8.779	8.767	8.521	8.747	8.723	8.826	8.868	8.838	8.821	8.834	8.838
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

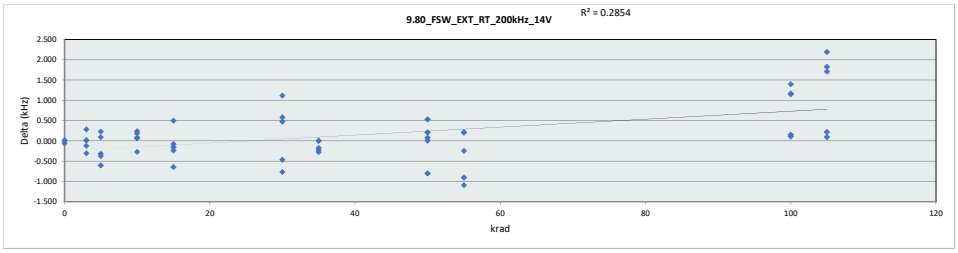


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

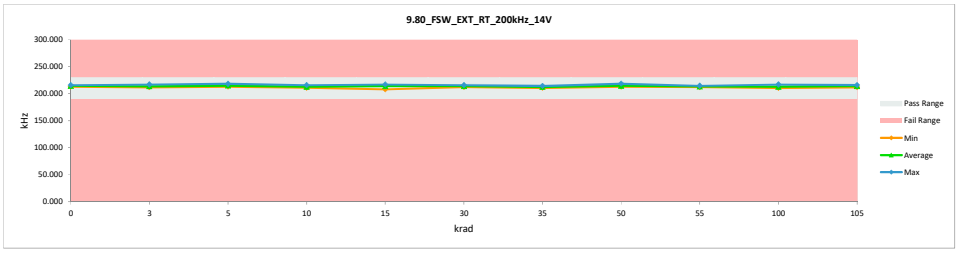
	9.80_FSW_EXT_RT_200kHz_1	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	215.145	215.077	-0.068
0	69	212.926	212.940	0.014
0	70	215.502	215.496	-0.006
3	1	212.265	211.956	-0.309
3	2	211.694	211.974	0.280
3	3	213.454	213.330	-0.124
3	4	214.153	214.167	0.014
3	5	216.706	216.716	0.010
5	6	217.751	217.979	0.228
5	7	215.554	215.178	-0.376
5	8	215.181	214.575	-0.606
5	9	213.457	213.136	-0.321
5	10	213.139	213.227	0.088
10	11	211.513	211.576	0.063
10	12	210.854	211.035	0.181
10	13	214.545	214.622	0.077
10	14	215.926	215.652	-0.274
10	15	211.214	211.447	0.233
15	16	208.172	207.935	-0.237
15	17	216.851	216.693	-0.158
15	19	216.590	216.511	-0.079
15	20	212.933	212.285	-0.648
15	21	215.817	216.314	0.497
30	22	214.449	213.980	-0.469
30	23	211.983	212.561	0.578
30	24	214.212	214.684	0.472
30	25	214.592	215.705	1.113
30	26	215.051	214.278	-0.773
35	27	212.362	212.137	-0.225
35	28	214.201	214.024	-0.177
35	29	213.079	213.077	-0.002
35	30	210.988	210.708	-0.280
35	31	212.632	212.634	0.002
50	32	212.814	212.817	0.003
50	33	213.384	213.913	0.529
50	34	214.541	214.617	0.076
50	35	214.682	213.877	-0.805
50	36	218.207	218.412	0.205
55	37	215.480	214.386	-1.094
55	38	213.456	213.661	0.205
55	39	212.037	212.241	0.204
55	40	213.224	212.315	-0.909
55	41	212.923	212.672	-0.251
100	42	210.898	211.046	0.148
100	43	215.582	216.747	1.165
100	44	211.740	212.885	1.145
100	45	212.085	213.479	1.394
100	46	210.685	210.794	0.109
105	47	214.679	214.769	0.090
105	48	214.087	215.907	1.820
105	49	212.214	214.401	2.187
105	50	211.486	213.192	1.706
105	51	211.761	211.974	0.213
	Max	218.207	218.412	2.187
	Average	213.601	213.730	0.129
	Min	208.172	207.935	-1.094
	Std Dev	1.999	1.998	0.658



	9.80_FSW_EXT_RT_200kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	230	kHz
Min Limit	190	kHz

krad	0	3	5	10	15	30	35	50	55	100	105
LL	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000	190.000
Min	212.940	211.956	213.136	211.035	207.935	212.561	210.708	212.817	212.241	210.794	211.974
Average	214.504	213.629	214.819	212.866	213.948	214.242	212.516	214.727	213.055	212.990	214.049
Max	215.496	216.716	217.979	215.652	216.693	215.705	214.024	218.412	214.386	216.747	215.907
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

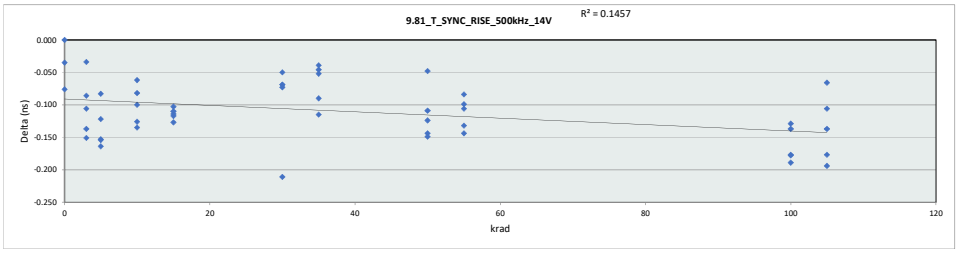


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

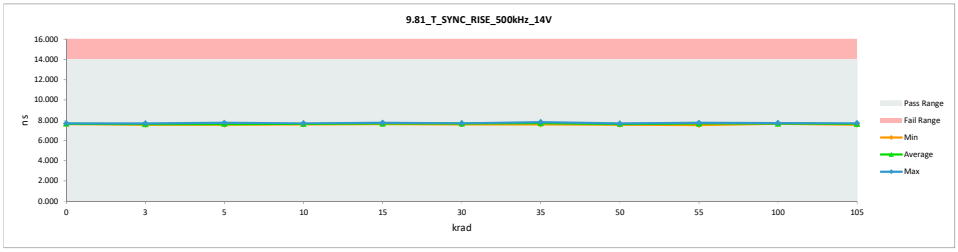
	9.81_T_SYNC_RISE_500kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.648	7.613	-0.035
0	69	7.668	7.668	0.000
0	70	7.762	7.686	-0.076
3	1	7.677	7.643	-0.034
3	2	7.624	7.538	-0.086
3	3	7.818	7.681	-0.137
3	4	7.692	7.586	-0.106
3	5	7.706	7.555	-0.151
5	6	7.816	7.733	-0.083
5	7	7.753	7.589	-0.164
5	8	7.749	7.595	-0.154
5	9	7.803	7.650	-0.153
5	10	7.672	7.550	-0.122
10	11	7.780	7.698	-0.082
10	12	7.700	7.638	-0.062
10	13	7.711	7.585	-0.126
10	14	7.705	7.605	-0.100
10	15	7.764	7.629	-0.135
15	16	7.820	7.717	-0.103
15	17	7.734	7.607	-0.127
15	19	7.758	7.644	-0.114
15	20	7.845	7.735	-0.110
15	21	7.779	7.662	-0.117
30	22	7.797	7.586	-0.211
30	23	7.761	7.692	-0.069
30	24	7.763	7.690	-0.073
30	25	7.727	7.677	-0.050
30	26	7.767	7.698	-0.069
35	27	7.833	7.718	-0.115
35	28	7.716	7.670	-0.046
35	29	7.741	7.702	-0.039
35	30	7.855	7.803	-0.052
35	31	7.670	7.580	-0.090
50	32	7.762	7.653	-0.109
50	33	7.693	7.645	-0.048
50	34	7.698	7.554	-0.144
50	35	7.694	7.570	-0.124
50	36	7.822	7.673	-0.149
55	37	7.621	7.515	-0.106
55	38	7.853	7.709	-0.144
55	39	7.833	7.734	-0.099
55	40	7.781	7.649	-0.132
55	41	7.805	7.721	-0.084
100	42	7.851	7.714	-0.137
100	43	7.807	7.630	-0.177
100	44	7.829	7.640	-0.189
100	45	7.874	7.696	-0.178
100	46	7.816	7.687	-0.129
105	47	7.683	7.546	-0.137
105	48	7.811	7.634	-0.177
105	49	7.727	7.661	-0.066
105	50	7.739	7.633	-0.106
105	51	7.887	7.693	-0.194
Max		7.887	7.803	0.000
Average		7.758	7.649	-0.110
Min		7.621	7.515	-0.211
Std Dev		0.066	0.061	0.046



	9.81_T_SYNC_RISE_500kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.613	7.538	7.550	7.585	7.607	7.586	7.580	7.554	7.515	7.630	7.546
Average	7.656	7.601	7.623	7.631	7.673	7.669	7.695	7.619	7.666	7.673	7.633
Max	7.686	7.681	7.733	7.698	7.735	7.698	7.803	7.673	7.734	7.714	7.693
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

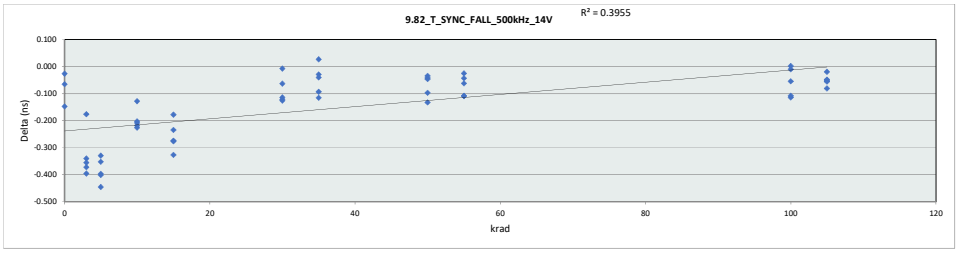


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

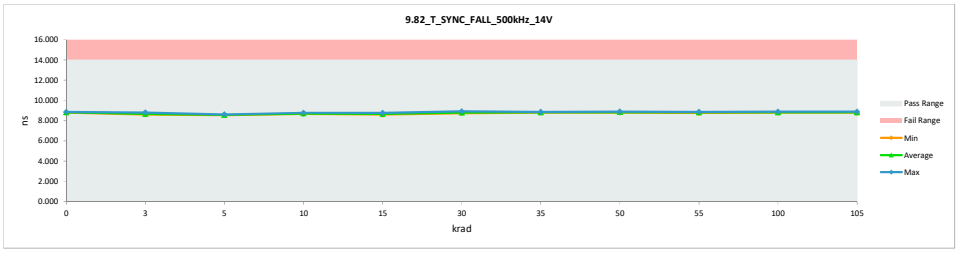
	9.82_T_SYNC_FALL_500kHz_1	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.878	8.851	-0.027
0	69	8.916	8.850	-0.066
0	70	8.936	8.788	-0.148
3	1	8.979	8.802	-0.177
3	2	9.004	8.631	-0.373
3	3	8.965	8.624	-0.341
3	4	9.005	8.609	-0.396
3	5	8.985	8.629	-0.356
5	6	8.885	8.555	-0.330
5	7	8.970	8.617	-0.353
5	8	9.009	8.563	-0.446
5	9	8.937	8.540	-0.397
5	10	8.935	8.533	-0.402
10	11	8.888	8.759	-0.129
10	12	8.880	8.671	-0.209
10	13	8.933	8.714	-0.219
10	14	8.987	8.784	-0.203
10	15	8.896	8.669	-0.227
15	16	8.878	8.603	-0.275
15	17	8.974	8.647	-0.327
15	19	8.912	8.635	-0.277
15	20	8.898	8.663	-0.235
15	21	8.926	8.747	-0.179
30	22	8.900	8.773	-0.127
30	23	8.861	8.739	-0.122
30	24	8.931	8.923	-0.008
30	25	8.918	8.803	-0.115
30	26	8.866	8.802	-0.064
35	27	8.908	8.792	-0.116
35	28	8.870	8.829	-0.041
35	29	8.873	8.843	-0.030
35	30	8.802	8.828	0.026
35	31	8.951	8.857	-0.094
50	32	8.895	8.852	-0.043
50	33	8.943	8.896	-0.047
50	34	8.886	8.851	-0.035
50	35	8.917	8.819	-0.098
50	36	8.919	8.786	-0.133
55	37	8.931	8.821	-0.110
55	38	8.863	8.754	-0.109
55	39	8.866	8.840	-0.026
55	40	8.870	8.826	-0.044
55	41	8.939	8.876	-0.063
100	42	8.918	8.809	-0.109
100	43	8.915	8.800	-0.115
100	44	8.884	8.885	0.001
100	45	8.903	8.848	-0.055
100	46	8.845	8.834	-0.011
105	47	8.904	8.853	-0.051
105	48	8.872	8.852	-0.020
105	49	8.928	8.879	-0.049
105	50	8.889	8.807	-0.082
105	51	8.835	8.779	-0.056
Max		9.009	8.923	0.026
Average		8.913	8.761	-0.152
Min		8.802	8.533	-0.446
Std Dev		0.045	0.105	0.128



	9.82_T_SYNC_FALL_500kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.788	8.609	8.533	8.669	8.603	8.739	8.792	8.786	8.754	8.800	8.779
Average	8.830	8.659	8.562	8.719	8.659	8.808	8.830	8.841	8.823	8.835	8.834
Max	8.851	8.802	8.617	8.784	8.747	8.923	8.857	8.896	8.876	8.885	8.879
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

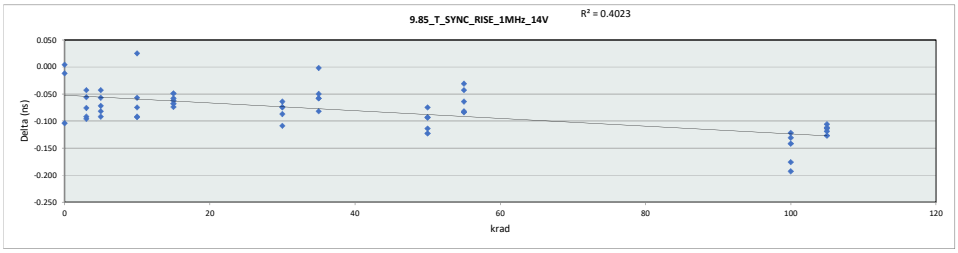


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

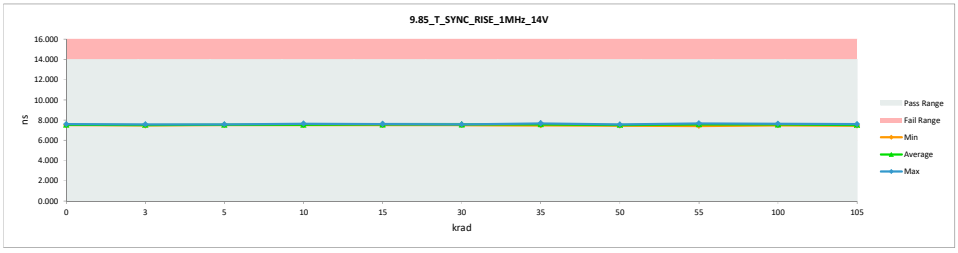
	9.85_T_SYNC_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.507	7.511	0.004
0	69	7.597	7.493	-0.104
0	70	7.593	7.581	-0.012
3	1	7.555	7.512	-0.043
3	2	7.518	7.462	-0.056
3	3	7.644	7.568	-0.076
3	4	7.613	7.521	-0.092
3	5	7.571	7.475	-0.096
5	6	7.633	7.576	-0.057
5	7	7.596	7.504	-0.092
5	8	7.588	7.506	-0.082
5	9	7.622	7.550	-0.072
5	10	7.558	7.515	-0.043
10	11	7.611	7.636	0.025
10	12	7.603	7.528	-0.075
10	13	7.549	7.492	-0.057
10	14	7.598	7.506	-0.092
10	15	7.604	7.511	-0.093
15	16	7.664	7.602	-0.062
15	17	7.580	7.506	-0.074
15	19	7.604	7.536	-0.068
15	20	7.674	7.616	-0.058
15	21	7.610	7.561	-0.049
30	22	7.619	7.510	-0.109
30	23	7.633	7.558	-0.075
30	24	7.647	7.573	-0.074
30	25	7.630	7.566	-0.064
30	26	7.660	7.573	-0.087
35	27	7.692	7.610	-0.082
35	28	7.601	7.551	-0.050
35	29	7.628	7.570	-0.058
35	30	7.673	7.671	-0.002
35	31	7.541	7.483	-0.058
50	32	7.646	7.523	-0.123
50	33	7.601	7.508	-0.093
50	34	7.575	7.481	-0.094
50	35	7.521	7.446	-0.075
50	36	7.680	7.566	-0.114
55	37	7.504	7.420	-0.084
55	38	7.675	7.611	-0.064
55	39	7.707	7.664	-0.043
55	40	7.612	7.581	-0.031
55	41	7.658	7.576	-0.082
100	42	7.746	7.624	-0.122
100	43	7.681	7.488	-0.193
100	44	7.657	7.526	-0.131
100	45	7.759	7.583	-0.176
100	46	7.704	7.562	-0.142
105	47	7.553	7.439	-0.114
105	48	7.632	7.505	-0.127
105	49	7.660	7.554	-0.106
105	50	7.602	7.483	-0.119
105	51	7.703	7.591	-0.112
Max		7.759	7.671	0.025
Average		7.621	7.541	-0.080
Min		7.504	7.420	-0.193
Std Dev		0.057	0.055	0.040



	9.85_T_SYNC_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.493	7.462	7.504	7.492	7.506	7.510	7.483	7.446	7.420	7.488	7.439
Average	7.528	7.508	7.530	7.535	7.564	7.556	7.577	7.505	7.570	7.557	7.514
Max	7.581	7.568	7.576	7.636	7.616	7.573	7.671	7.566	7.664	7.624	7.591
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

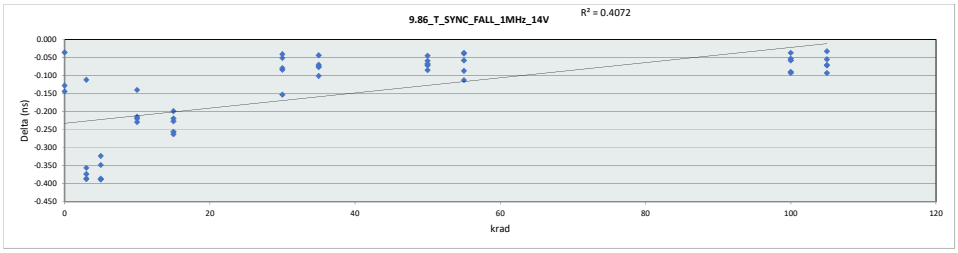


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

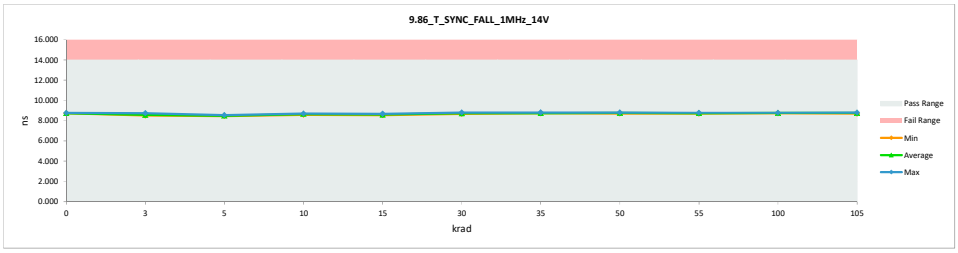
	9.86_T_SYNC_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.799	8.763	-0.036
0	69	8.884	8.756	-0.128
0	70	8.865	8.721	-0.144
3	1	8.850	8.738	-0.112
3	2	8.938	8.565	-0.373
3	3	8.889	8.502	-0.387
3	4	8.911	8.525	-0.386
3	5	8.916	8.560	-0.356
5	6	8.785	8.462	-0.323
5	7	8.892	8.544	-0.348
5	8	8.902	8.514	-0.388
5	9	8.869	8.481	-0.388
5	10	8.841	8.455	-0.386
10	11	8.893	8.664	-0.229
10	12	8.795	8.576	-0.219
10	13	8.839	8.699	-0.140
10	14	8.908	8.694	-0.214
10	15	8.810	8.591	-0.219
15	16	8.775	8.548	-0.227
15	17	8.853	8.590	-0.263
15	19	8.833	8.577	-0.256
15	20	8.823	8.604	-0.219
15	21	8.872	8.673	-0.199
30	22	8.827	8.674	-0.153
30	23	8.763	8.679	-0.084
30	24	8.848	8.807	-0.041
30	25	8.831	8.752	-0.079
30	26	8.787	8.736	-0.051
35	27	8.806	8.732	-0.074
35	28	8.790	8.720	-0.070
35	29	8.789	8.745	-0.044
35	30	8.826	8.725	-0.101
35	31	8.881	8.804	-0.077
50	32	8.813	8.768	-0.045
50	33	8.867	8.808	-0.059
50	34	8.871	8.799	-0.072
50	35	8.845	8.777	-0.068
50	36	8.783	8.698	-0.085
55	37	8.859	8.746	-0.113
55	38	8.774	8.687	-0.087
55	39	8.778	8.739	-0.039
55	40	8.805	8.768	-0.037
55	41	8.837	8.779	-0.058
100	42	8.827	8.769	-0.058
100	43	8.807	8.717	-0.090
100	44	8.811	8.758	-0.053
100	45	8.819	8.782	-0.037
100	46	8.819	8.726	-0.093
105	47	8.807	8.774	-0.033
105	48	8.851	8.779	-0.072
105	49	8.845	8.790	-0.055
105	50	8.834	8.741	-0.093
105	51	8.765	8.694	-0.071
Max		8.938	8.808	-0.033
Average		8.836	8.684	-0.152
Min		8.763	8.455	-0.388
Std Dev		0.043	0.101	0.118



	9.86_T_SYNC_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.721	8.502	8.455	8.576	8.548	8.674	8.720	8.698	8.687	8.717	8.694
Average	8.747	8.578	8.491	8.645	8.598	8.730	8.745	8.770	8.744	8.750	8.756
Max	8.763	8.738	8.544	8.699	8.673	8.807	8.804	8.808	8.779	8.782	8.790
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

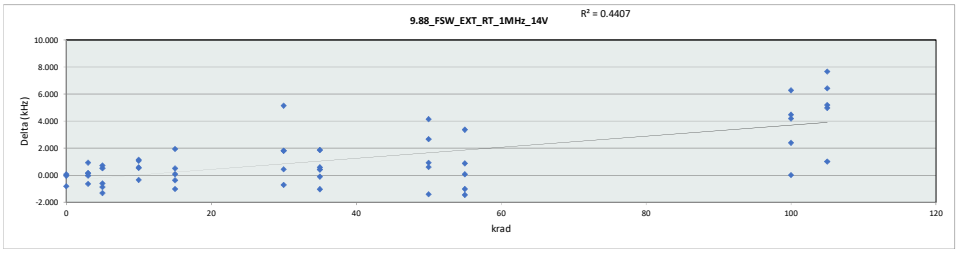


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

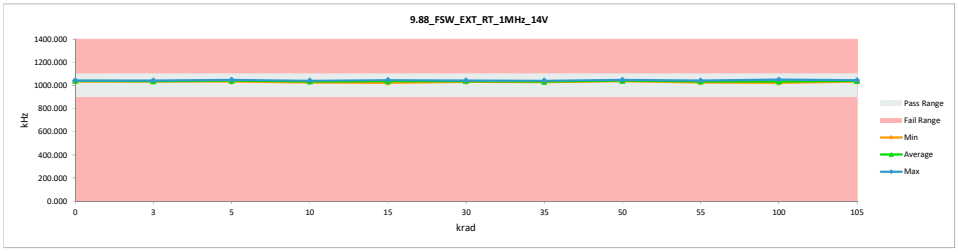
	9.88_FSW_EXT_RT_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1043.939	1043.111	-0.828
0	69	1034.336	1034.288	-0.048
0	70	1041.702	1041.761	0.059
3	1	1034.655	1034.001	-0.654
3	2	1034.914	1035.835	0.921
3	3	1035.978	1035.934	-0.044
3	4	1033.851	1033.991	0.140
3	5	1041.738	1041.866	0.128
5	6	1047.291	1047.993	0.702
5	7	1040.952	1040.337	-0.615
5	8	1047.044	1045.712	-1.332
5	9	1034.326	1033.436	-0.890
5	10	1037.902	1038.403	0.501
10	11	1025.419	1025.939	0.520
10	12	1040.059	1040.630	0.571
10	13	1037.583	1038.637	1.054
10	14	1041.454	1041.091	-0.363
10	15	1029.379	1030.512	1.133
15	16	1021.047	1021.537	0.490
15	17	1045.027	1045.090	0.063
15	19	1046.600	1046.210	-0.390
15	20	1028.628	1027.593	-1.035
15	21	1037.970	1039.896	1.926
30	22	1034.781	1035.204	0.423
30	23	1035.999	1037.795	1.796
30	24	1029.000	1030.785	1.785
30	25	1037.624	1042.757	5.133
30	26	1042.907	1042.172	-0.735
35	27	1033.549	1032.502	-1.047
35	28	1040.413	1040.819	0.406
35	29	1035.083	1034.966	-0.117
35	30	1025.296	1027.143	1.847
35	31	1028.383	1028.950	0.567
50	32	1033.607	1036.258	2.651
50	33	1035.844	1039.970	4.126
50	34	1039.436	1040.342	0.906
50	35	1045.401	1043.978	-1.423
50	36	1046.994	1047.581	0.587
55	37	1043.524	1042.494	-1.030
55	38	1034.883	1034.934	0.051
55	39	1021.373	1024.729	3.356
55	40	1038.062	1036.595	-1.467
55	41	1031.654	1032.516	0.862
100	42	1022.940	1022.940	0.000
100	43	1045.839	1050.303	4.464
100	44	1029.695	1035.959	6.264
100	45	1027.806	1031.988	4.182
100	46	1024.689	1027.071	2.382
105	47	1043.406	1044.402	0.996
105	48	1038.316	1043.497	5.181
105	49	1029.973	1037.620	7.647
105	50	1027.580	1033.985	6.405
105	51	1027.449	1032.411	4.962
	Max	1047.291	1050.303	7.647
	Average	1035.723	1036.914	1.192
	Min	1021.047	1021.537	-1.467
	Std Dev	7.152	6.699	2.210



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000	900.000
Min	1034.288	1033.991	1033.436	1025.939	1021.537	1030.785	1027.143	1036.258	1024.729	1022.940	1032.411
Average	1039.720	1036.325	1041.176	1035.362	1036.065	1037.743	1032.876	1041.626	1034.254	1033.652	1038.383
Max	1043.111	1041.866	1047.993	1041.091	1046.210	1042.757	1040.819	1047.581	1042.494	1050.303	1044.402
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

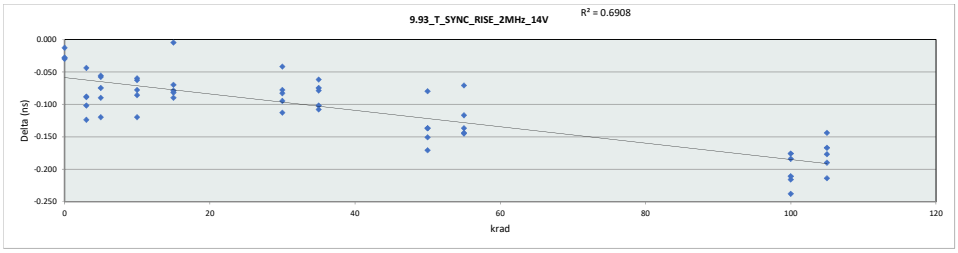


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

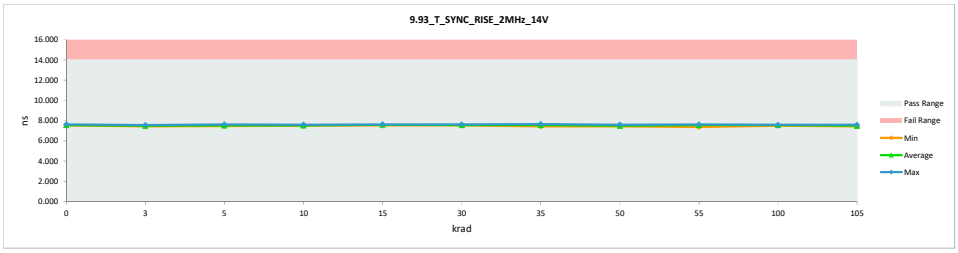
	9.93_T_SYNC_RISE_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.550	7.522	-0.028
0	69	7.555	7.525	-0.030
0	70	7.637	7.624	-0.013
3	1	7.573	7.529	-0.044
3	2	7.549	7.425	-0.124
3	3	7.649	7.560	-0.089
3	4	7.600	7.498	-0.102
3	5	7.572	7.484	-0.088
5	6	7.682	7.624	-0.058
5	7	7.600	7.525	-0.075
5	8	7.614	7.558	-0.056
5	9	7.631	7.541	-0.090
5	10	7.588	7.468	-0.120
10	11	7.685	7.599	-0.086
10	12	7.624	7.561	-0.063
10	13	7.568	7.508	-0.060
10	14	7.570	7.492	-0.078
10	15	7.648	7.528	-0.120
15	16	7.634	7.629	-0.005
15	17	7.610	7.520	-0.090
15	19	7.638	7.568	-0.070
15	20	7.713	7.634	-0.079
15	21	7.638	7.556	-0.082
30	22	7.600	7.522	-0.078
30	23	7.656	7.561	-0.095
30	24	7.674	7.632	-0.042
30	25	7.658	7.545	-0.113
30	26	7.663	7.580	-0.083
35	27	7.665	7.590	-0.075
35	28	7.615	7.507	-0.108
35	29	7.596	7.534	-0.062
35	30	7.734	7.655	-0.079
35	31	7.553	7.451	-0.102
50	32	7.605	7.525	-0.080
50	33	7.641	7.490	-0.151
50	34	7.616	7.445	-0.171
50	35	7.584	7.447	-0.137
50	36	7.734	7.597	-0.137
55	37	7.525	7.381	-0.144
55	38	7.744	7.627	-0.117
55	39	7.750	7.613	-0.137
55	40	7.640	7.569	-0.071
55	41	7.711	7.566	-0.145
100	42	7.770	7.586	-0.184
100	43	7.705	7.529	-0.176
100	44	7.716	7.500	-0.216
100	45	7.794	7.583	-0.211
100	46	7.771	7.533	-0.238
105	47	7.606	7.429	-0.177
105	48	7.670	7.526	-0.144
105	49	7.728	7.538	-0.190
105	50	7.659	7.445	-0.214
105	51	7.752	7.585	-0.167
Max		7.794	7.655	-0.005
Average		7.646	7.539	-0.107
Min		7.525	7.381	-0.238
Std Dev		0.066	0.061	0.054



	9.93_T_SYNC_RISE_2MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	7.522	7.425	7.468	7.492	7.520	7.522	7.451	7.445	7.381	7.500	7.429
Average	7.557	7.499	7.543	7.538	7.581	7.568	7.547	7.501	7.551	7.546	7.505
Max	7.624	7.560	7.624	7.599	7.634	7.632	7.655	7.597	7.627	7.586	7.585
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

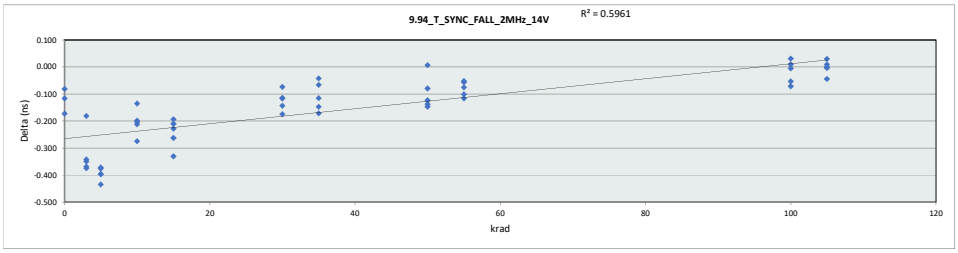


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

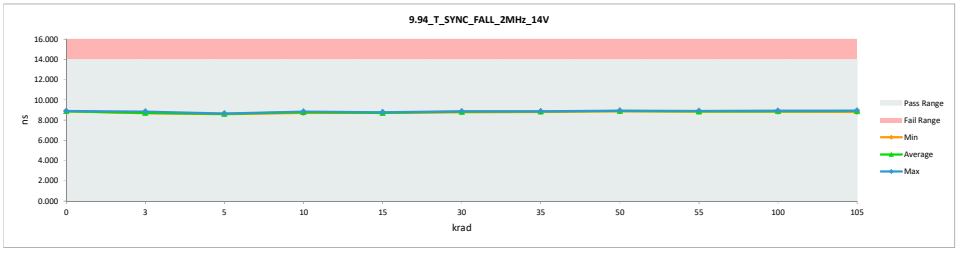
	9.94_T_SYNC_FALL_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	14
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.974	8.892	-0.082
0	69	8.969	8.852	-0.117
0	70	9.030	8.857	-0.173
3	1	9.030	8.848	-0.182
3	2	9.050	8.707	-0.343
3	3	9.070	8.695	-0.375
3	4	9.053	8.684	-0.369
3	5	9.023	8.673	-0.350
5	6	8.960	8.583	-0.377
5	7	9.017	8.645	-0.372
5	8	9.041	8.644	-0.397
5	9	9.026	8.591	-0.435
5	10	8.980	8.583	-0.397
10	11	8.958	8.745	-0.213
10	12	8.894	8.690	-0.204
10	13	8.978	8.842	-0.136
10	14	9.026	8.827	-0.199
10	15	8.981	8.706	-0.275
15	16	8.879	8.685	-0.194
15	17	9.039	8.708	-0.331
15	19	8.947	8.718	-0.229
15	20	8.948	8.685	-0.263
15	21	8.989	8.778	-0.211
30	22	8.956	8.781	-0.175
30	23	8.932	8.788	-0.144
30	24	8.984	8.867	-0.117
30	25	8.976	8.861	-0.115
30	26	8.897	8.823	-0.074
35	27	8.981	8.833	-0.148
35	28	8.853	8.810	-0.043
35	29	8.988	8.872	-0.116
35	30	8.905	8.838	-0.067
35	31	9.044	8.872	-0.172
50	32	8.889	8.895	0.006
50	33	9.080	8.932	-0.148
50	34	9.032	8.894	-0.138
50	35	9.006	8.926	-0.080
50	36	8.974	8.850	-0.124
55	37	8.942	8.866	-0.076
55	38	8.918	8.816	-0.102
55	39	8.936	8.819	-0.117
55	40	8.923	8.866	-0.057
55	41	8.964	8.911	-0.053
100	42	8.891	8.837	-0.054
100	43	8.860	8.869	0.009
100	44	8.880	8.874	-0.006
100	45	8.900	8.930	0.030
100	46	8.889	8.817	-0.072
105	47	8.875	8.871	-0.004
105	48	8.905	8.914	0.009
105	49	8.932	8.931	-0.001
105	50	8.855	8.884	0.029
105	51	8.842	8.797	-0.045
Max		9.080	8.932	0.030
Average		8.960	8.802	-0.158
Min		8.842	8.583	-0.435
Std Dev		0.063	0.097	0.128



	9.94_T_SYNC_FALL_2MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	8.852	8.673	8.583	8.690	8.685	8.781	8.810	8.850	8.816	8.817	8.797
Average	8.867	8.721	8.609	8.762	8.715	8.824	8.845	8.899	8.856	8.865	8.879
Max	8.892	8.848	8.645	8.842	8.778	8.867	8.872	8.932	8.911	8.930	8.931
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

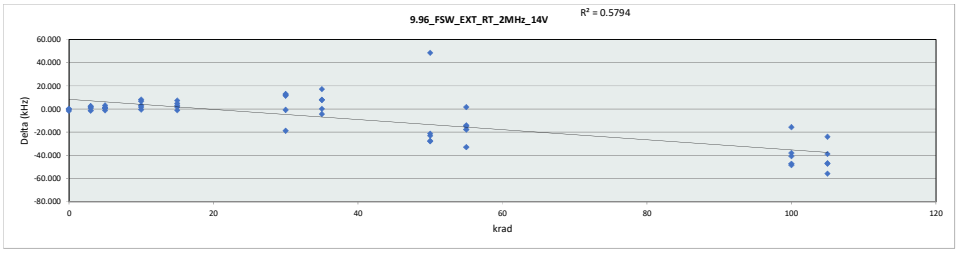


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

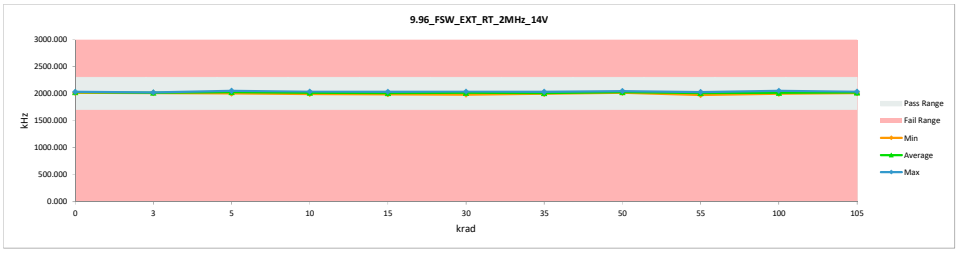
	9.96_FSW_EXT_RT_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2035.104	2033.323	-1.781
0	69	2012.839	2012.501	-0.338
0	70	2030.618	2030.849	0.231
3	1	2013.389	2011.874	-1.515
3	2	2014.748	2017.210	2.462
3	3	2021.703	2023.306	1.603
3	4	2007.504	2009.229	1.725
3	5	2023.546	2024.198	0.652
5	6	2046.806	2049.779	2.973
5	7	2010.349	2011.380	1.031
5	8	2045.862	2044.545	-1.317
5	9	2002.893	2003.311	0.418
5	10	2027.071	2028.330	1.259
10	11	1991.175	1994.195	3.020
10	12	2028.791	2036.918	8.127
10	13	2015.400	2021.993	6.593
10	14	2026.597	2026.022	-0.575
10	15	2005.837	2007.427	1.590
15	16	1984.513	1989.174	4.661
15	17	2026.255	2029.227	2.972
15	19	2033.700	2035.230	1.530
15	20	1991.270	1990.099	-1.171
15	21	2003.445	2010.613	7.168
30	22	2028.718	2009.865	-18.853
30	23	2024.690	2023.807	-0.883
30	24	1971.594	1983.014	11.420
30	25	2011.479	2024.333	12.854
30	26	2025.305	2037.332	12.027
35	27	1997.699	2005.572	7.873
35	28	2015.264	2032.333	17.069
35	29	2015.647	2011.133	-4.514
35	30	1996.045	1996.109	0.064
35	31	1989.493	1997.243	7.750
50	32	1976.396	2024.828	48.432
50	33	2048.092	2024.898	-23.194
50	34	2041.189	2013.247	-27.942
50	35	2067.874	2046.592	-21.282
50	36	2058.750	2031.072	-27.678
55	37	2044.167	2029.298	-14.869
55	38	2028.305	2010.470	-17.835
55	39	2006.228	1973.298	-32.930
55	40	2038.954	2024.753	-14.201
55	41	2019.656	2021.145	1.489
100	42	2036.623	1998.523	-38.100
100	43	2099.306	2051.945	-47.361
100	44	2039.455	2023.675	-15.780
100	45	2054.465	2005.952	-48.513
100	46	2036.528	1995.788	-40.740
105	47	2090.759	2034.866	-55.893
105	48	2085.092	2037.861	-47.231
105	49	2065.609	2018.650	-46.959
105	50	2046.422	2007.521	-38.901
105	51	2043.302	2019.222	-24.080
	Max	2099.306	2051.945	48.432
	Average	2026.463	2018.020	-8.442
	Min	1971.594	1973.298	-55.893
	Std Dev	26.924	17.146	20.574



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

krad	0	3	5	10	15	30	35	50	55	100	105
LL	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000	1700.000
Min	2012.501	2009.229	2003.311	1994.195	1989.174	1983.014	1996.109	2013.247	1973.298	1995.788	2007.521
Average	2025.558	2017.163	2027.469	2017.311	2010.869	2015.670	2008.478	2028.127	2011.793	2015.177	2023.624
Max	2033.323	2024.198	2049.779	2036.918	2035.230	2037.332	2032.333	2046.592	2029.298	2051.945	2037.861
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

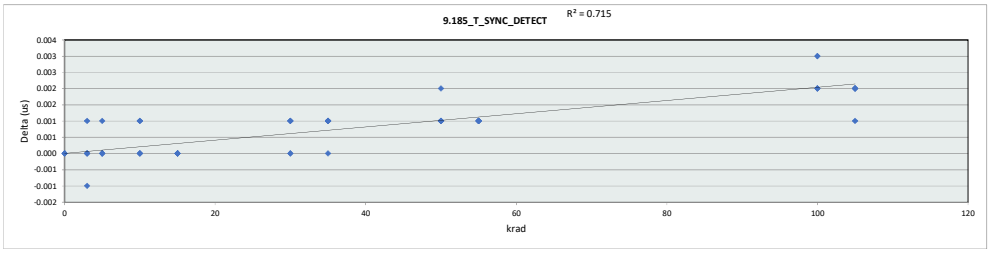


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

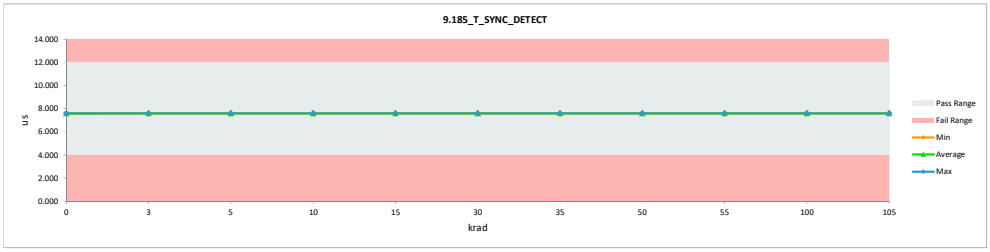
	9.185_T_SYNC_DETECT	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	20	12
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.587	7.587	0.000
0	69	7.588	7.588	0.000
0	70	7.589	7.589	0.000
3	1	7.589	7.588	-0.001
3	2	7.588	7.588	0.000
3	3	7.590	7.590	0.000
3	4	7.588	7.589	0.001
3	5	7.588	7.588	0.000
5	6	7.587	7.587	0.000
5	7	7.589	7.589	0.000
5	8	7.588	7.589	0.001
5	9	7.589	7.589	0.000
5	10	7.588	7.588	0.000
10	11	7.587	7.588	0.001
10	12	7.588	7.588	0.000
10	13	7.588	7.588	0.000
10	14	7.588	7.588	0.000
10	15	7.588	7.589	0.001
15	16	7.589	7.589	0.000
15	17	7.589	7.589	0.000
15	19	7.589	7.589	0.000
15	20	7.589	7.589	0.000
15	21	7.587	7.587	0.000
30	22	7.589	7.589	0.000
30	23	7.588	7.589	0.001
30	24	7.588	7.589	0.001
30	25	7.587	7.588	0.001
30	26	7.588	7.588	0.000
35	27	7.589	7.589	0.000
35	28	7.588	7.589	0.001
35	29	7.588	7.589	0.001
35	30	7.589	7.590	0.001
35	31	7.587	7.588	0.001
50	32	7.587	7.589	0.002
50	33	7.587	7.588	0.001
50	34	7.588	7.589	0.001
50	35	7.587	7.588	0.001
50	36	7.587	7.588	0.001
55	37	7.587	7.588	0.001
55	38	7.588	7.589	0.001
55	39	7.589	7.590	0.001
55	40	7.588	7.589	0.001
55	41	7.588	7.589	0.001
100	42	7.586	7.588	0.002
100	43	7.585	7.588	0.003
100	44	7.585	7.588	0.003
100	45	7.587	7.589	0.002
100	46	7.586	7.588	0.002
105	47	7.586	7.588	0.002
105	48	7.586	7.588	0.002
105	49	7.588	7.589	0.001
105	50	7.586	7.588	0.002
105	51	7.586	7.588	0.002
Max		7.590	7.590	0.003
Average		7.588	7.588	0.001
Min		7.585	7.587	-0.001
Std Dev		0.001	0.001	0.001



	9.185_T_SYNC_DETECT	
Test Site		
Tester		
Test Number		
Max Limit	12	us
Min Limit	4	us

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.587	7.588	7.587	7.588	7.587	7.588	7.588	7.588	7.588	7.588	7.588
Average	7.588	7.589	7.588	7.588	7.589	7.589	7.589	7.588	7.589	7.588	7.588
Max	7.589	7.590	7.589	7.589	7.589	7.589	7.590	7.589	7.590	7.589	7.589
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

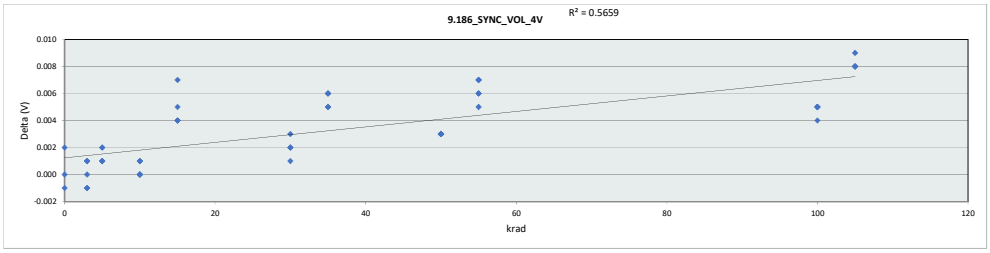


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

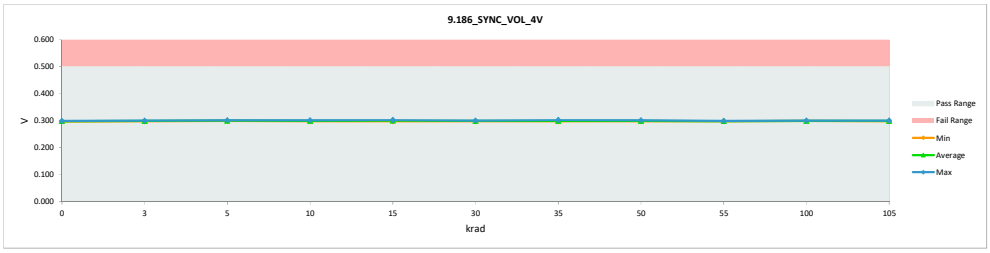
	9.186_SYNC_VOL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.297	0.299	0.002
0	69	0.297	0.297	0.000
0	70	0.300	0.299	-0.001
3	1	0.299	0.298	-0.001
3	2	0.299	0.300	0.001
3	3	0.301	0.300	-0.001
3	4	0.299	0.299	0.000
3	5	0.297	0.298	0.001
5	6	0.298	0.300	0.002
5	7	0.298	0.299	0.001
5	8	0.300	0.301	0.001
5	9	0.299	0.301	0.002
5	10	0.298	0.299	0.001
10	11	0.298	0.298	0.000
10	12	0.298	0.299	0.001
10	13	0.299	0.299	0.000
10	14	0.300	0.301	0.001
10	15	0.299	0.299	0.000
15	16	0.295	0.299	0.004
15	17	0.294	0.298	0.004
15	19	0.295	0.300	0.005
15	20	0.295	0.302	0.007
15	21	0.295	0.299	0.004
30	22	0.298	0.300	0.002
30	23	0.297	0.298	0.001
30	24	0.296	0.298	0.002
30	25	0.298	0.300	0.002
30	26	0.297	0.300	0.003
35	27	0.293	0.299	0.006
35	28	0.293	0.299	0.006
35	29	0.297	0.302	0.005
35	30	0.293	0.298	0.005
35	31	0.292	0.298	0.006
50	32	0.295	0.298	0.003
50	33	0.297	0.300	0.003
50	34	0.295	0.298	0.003
50	35	0.298	0.301	0.003
50	36	0.296	0.299	0.003
55	37	0.293	0.299	0.006
55	38	0.293	0.298	0.005
55	39	0.291	0.298	0.007
55	40	0.293	0.299	0.006
55	41	0.291	0.298	0.007
100	42	0.294	0.299	0.005
100	43	0.295	0.300	0.005
100	44	0.294	0.299	0.005
100	45	0.295	0.299	0.004
100	46	0.295	0.300	0.005
105	47	0.291	0.299	0.008
105	48	0.292	0.300	0.008
105	49	0.291	0.300	0.009
105	50	0.291	0.299	0.008
105	51	0.290	0.298	0.008
Max		0.301	0.302	0.009
Average		0.296	0.299	0.003
Min		0.290	0.297	-0.001
Std Dev		0.003	0.001	0.003



	9.186_SYNC_VOL_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.297	0.298	0.299	0.298	0.298	0.298	0.298	0.298	0.298	0.299	0.298
Average	0.298	0.299	0.300	0.299	0.300	0.299	0.299	0.299	0.298	0.299	0.299
Max	0.299	0.300	0.301	0.301	0.302	0.300	0.302	0.301	0.299	0.300	0.300
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

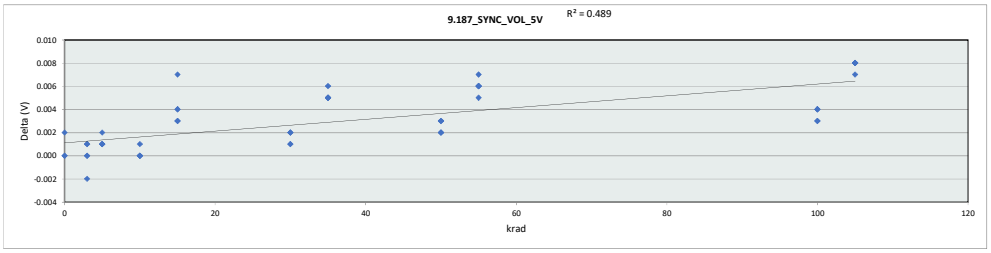


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

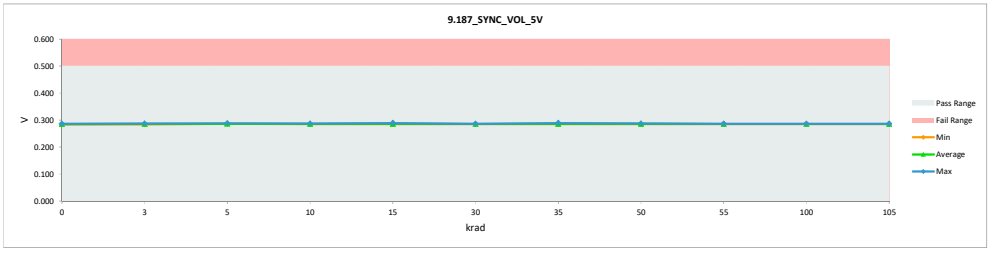
	9.187_SYNC_VOL_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.284	0.286	0.002
0	69	0.284	0.284	0.000
0	70	0.286	0.286	0.000
3	1	0.286	0.284	-0.002
3	2	0.285	0.286	0.001
3	3	0.287	0.287	0.000
3	4	0.286	0.286	0.000
3	5	0.284	0.285	0.001
5	6	0.285	0.286	0.001
5	7	0.285	0.286	0.001
5	8	0.287	0.288	0.001
5	9	0.286	0.287	0.001
5	10	0.284	0.286	0.002
10	11	0.284	0.285	0.001
10	12	0.285	0.285	0.000
10	13	0.286	0.286	0.000
10	14	0.287	0.287	0.000
10	15	0.286	0.286	0.000
15	16	0.282	0.285	0.003
15	17	0.281	0.285	0.004
15	19	0.282	0.286	0.004
15	20	0.282	0.289	0.007
15	21	0.282	0.285	0.003
30	22	0.285	0.286	0.001
30	23	0.284	0.285	0.001
30	24	0.283	0.285	0.002
30	25	0.284	0.286	0.002
30	26	0.284	0.286	0.002
35	27	0.280	0.286	0.006
35	28	0.280	0.285	0.005
35	29	0.284	0.289	0.005
35	30	0.280	0.285	0.005
35	31	0.280	0.285	0.005
50	32	0.283	0.285	0.002
50	33	0.284	0.287	0.003
50	34	0.283	0.285	0.002
50	35	0.285	0.287	0.002
50	36	0.283	0.286	0.003
55	37	0.280	0.286	0.006
55	38	0.280	0.285	0.005
55	39	0.279	0.285	0.006
55	40	0.280	0.286	0.006
55	41	0.278	0.285	0.007
100	42	0.281	0.285	0.004
100	43	0.283	0.286	0.003
100	44	0.282	0.285	0.003
100	45	0.282	0.286	0.004
100	46	0.282	0.286	0.004
105	47	0.278	0.286	0.008
105	48	0.279	0.286	0.007
105	49	0.278	0.286	0.008
105	50	0.278	0.286	0.008
105	51	0.277	0.285	0.008
Max		0.287	0.289	0.008
Average		0.283	0.286	0.003
Min		0.277	0.284	-0.002
Std Dev		0.003	0.001	0.003



	9.187_SYNC_VOL_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.284	0.284	0.286	0.285	0.285	0.285	0.285	0.285	0.285	0.285	0.285
Average	0.285	0.286	0.287	0.286	0.286	0.286	0.286	0.286	0.285	0.286	0.286
Max	0.286	0.287	0.288	0.287	0.289	0.286	0.289	0.287	0.286	0.286	0.286
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

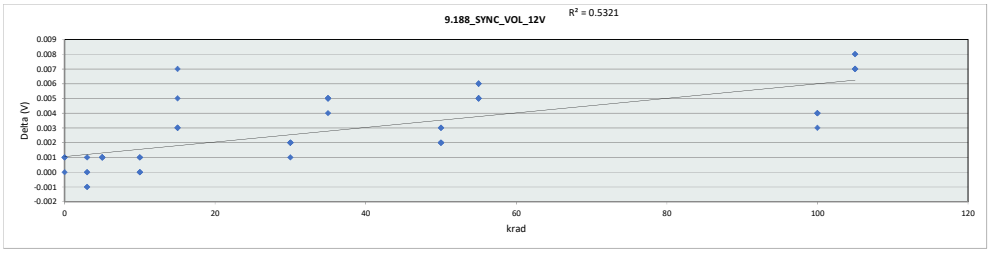


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

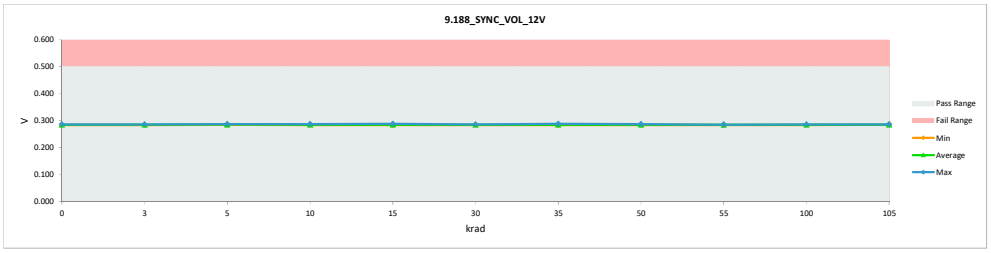
	9.188_SYNC_VOL_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.284	0.285	0.001
0	69	0.283	0.284	0.001
0	70	0.286	0.286	0.000
3	1	0.285	0.284	-0.001
3	2	0.285	0.285	0.000
3	3	0.287	0.286	-0.001
3	4	0.285	0.285	0.000
3	5	0.283	0.284	0.001
5	6	0.285	0.286	0.001
5	7	0.284	0.285	0.001
5	8	0.286	0.287	0.001
5	9	0.285	0.286	0.001
5	10	0.284	0.285	0.001
10	11	0.284	0.284	0.000
10	12	0.285	0.285	0.000
10	13	0.285	0.285	0.000
10	14	0.286	0.287	0.001
10	15	0.285	0.286	0.001
15	16	0.282	0.285	0.003
15	17	0.281	0.284	0.003
15	19	0.281	0.286	0.005
15	20	0.281	0.288	0.007
15	21	0.281	0.284	0.003
30	22	0.284	0.286	0.002
30	23	0.284	0.285	0.001
30	24	0.282	0.284	0.002
30	25	0.284	0.286	0.002
30	26	0.284	0.286	0.002
35	27	0.280	0.285	0.005
35	28	0.280	0.285	0.005
35	29	0.283	0.288	0.005
35	30	0.280	0.284	0.004
35	31	0.279	0.284	0.005
50	32	0.282	0.284	0.002
50	33	0.283	0.286	0.003
50	34	0.282	0.284	0.002
50	35	0.284	0.287	0.003
50	36	0.283	0.285	0.002
55	37	0.280	0.285	0.005
55	38	0.280	0.285	0.005
55	39	0.278	0.284	0.006
55	40	0.280	0.285	0.005
55	41	0.278	0.284	0.006
100	42	0.280	0.284	0.004
100	43	0.282	0.286	0.004
100	44	0.281	0.285	0.004
100	45	0.282	0.285	0.003
100	46	0.282	0.286	0.004
105	47	0.278	0.285	0.007
105	48	0.278	0.286	0.008
105	49	0.278	0.285	0.007
105	50	0.278	0.285	0.007
105	51	0.277	0.285	0.008
Max		0.287	0.288	0.008
Average		0.282	0.285	0.003
Min		0.277	0.284	-0.001
Std Dev		0.003	0.001	0.002



	9.188_SYNC_VOL_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.284	0.284	0.285	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.285
Average	0.285	0.285	0.286	0.285	0.285	0.285	0.285	0.285	0.285	0.285	0.285
Max	0.286	0.286	0.287	0.287	0.288	0.286	0.288	0.287	0.285	0.286	0.286
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

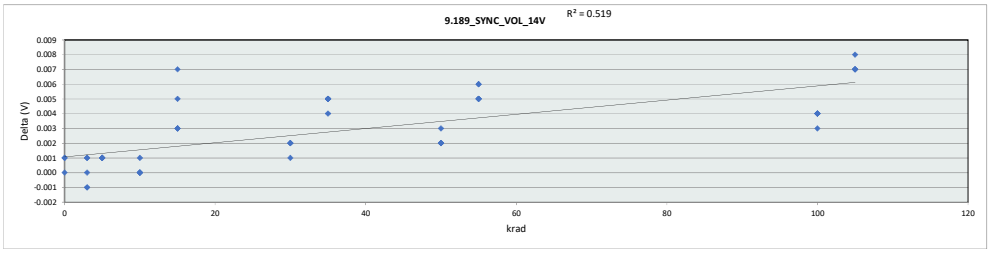


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

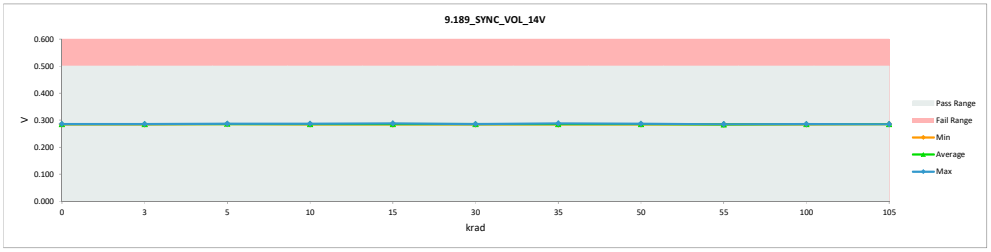
	9.189_SYNC_VOL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.284	0.285	0.001
0	69	0.283	0.284	0.001
0	70	0.286	0.286	0.000
3	1	0.285	0.284	-0.001
3	2	0.285	0.286	0.001
3	3	0.287	0.286	-0.001
3	4	0.285	0.285	0.000
3	5	0.283	0.284	0.001
5	6	0.285	0.286	0.001
5	7	0.284	0.285	0.001
5	8	0.286	0.287	0.001
5	9	0.285	0.286	0.001
5	10	0.284	0.285	0.001
10	11	0.284	0.284	0.000
10	12	0.285	0.285	0.000
10	13	0.285	0.285	0.000
10	14	0.286	0.287	0.001
10	15	0.285	0.285	0.000
15	16	0.282	0.285	0.003
15	17	0.281	0.284	0.003
15	19	0.281	0.286	0.005
15	20	0.281	0.288	0.007
15	21	0.281	0.284	0.003
30	22	0.284	0.286	0.002
30	23	0.284	0.285	0.001
30	24	0.282	0.284	0.002
30	25	0.284	0.286	0.002
30	26	0.284	0.286	0.002
35	27	0.280	0.285	0.005
35	28	0.280	0.285	0.005
35	29	0.283	0.288	0.005
35	30	0.280	0.284	0.004
35	31	0.279	0.284	0.005
50	32	0.282	0.284	0.002
50	33	0.284	0.286	0.002
50	34	0.282	0.284	0.002
50	35	0.284	0.287	0.003
50	36	0.283	0.285	0.002
55	37	0.280	0.285	0.005
55	38	0.280	0.285	0.005
55	39	0.278	0.284	0.006
55	40	0.280	0.285	0.005
55	41	0.278	0.284	0.006
100	42	0.280	0.284	0.004
100	43	0.282	0.286	0.004
100	44	0.281	0.285	0.004
100	45	0.282	0.285	0.003
100	46	0.282	0.286	0.004
105	47	0.278	0.285	0.007
105	48	0.278	0.285	0.007
105	49	0.278	0.285	0.007
105	50	0.278	0.285	0.007
105	51	0.277	0.285	0.008
Max		0.287	0.288	0.008
Average		0.282	0.285	0.003
Min		0.277	0.284	-0.001
Std Dev		0.003	0.001	0.002



	9.189_SYNC_VOL_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.284	0.284	0.285	0.284	0.284	0.284	0.284	0.284	0.284	0.284	0.285
Average	0.285	0.285	0.286	0.285	0.285	0.285	0.285	0.285	0.285	0.285	0.285
Max	0.286	0.286	0.287	0.287	0.288	0.286	0.288	0.287	0.285	0.286	0.285
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

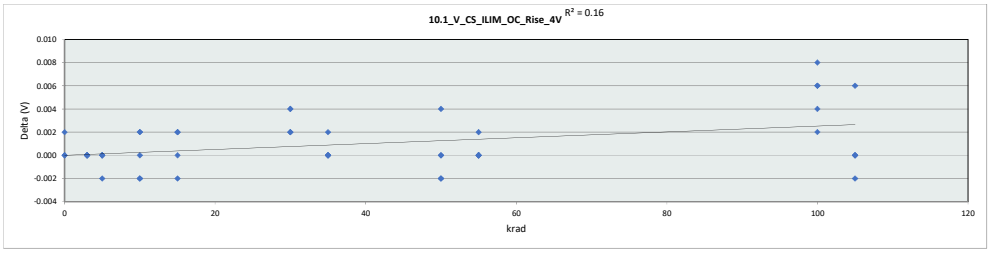


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

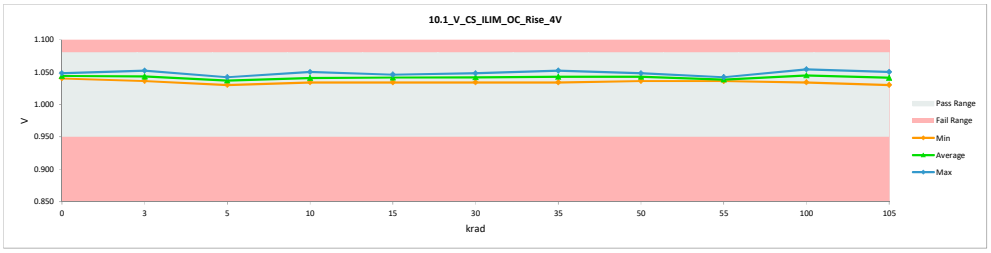
	10.1_V_CS_ILIM_OC_Rise_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.09	1.08
Min Limit	0.9	0.95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.046	1.048	0.002
0	69	1.040	1.040	0.000
0	70	1.044	1.044	0.000
3	1	1.052	1.052	0.000
3	2	1.046	1.046	0.000
3	3	1.040	1.040	0.000
3	4	1.036	1.036	0.000
3	5	1.042	1.042	0.000
5	6	1.038	1.038	0.000
5	7	1.032	1.030	-0.002
5	8	1.034	1.034	0.000
5	9	1.042	1.042	0.000
5	10	1.040	1.040	0.000
10	11	1.036	1.034	-0.002
10	12	1.032	1.034	0.002
10	13	1.040	1.042	0.002
10	14	1.044	1.044	0.000
10	15	1.052	1.050	-0.002
15	16	1.044	1.046	0.002
15	17	1.044	1.042	-0.002
15	19	1.040	1.040	0.000
15	20	1.032	1.034	0.002
15	21	1.044	1.046	0.002
30	22	1.032	1.034	0.002
30	23	1.038	1.040	0.002
30	24	1.040	1.044	0.004
30	25	1.042	1.044	0.002
30	26	1.044	1.048	0.004
35	27	1.034	1.036	0.002
35	28	1.034	1.034	0.000
35	29	1.052	1.052	0.000
35	30	1.048	1.048	0.000
35	31	1.044	1.044	0.000
50	32	1.036	1.036	0.000
50	33	1.048	1.048	0.000
50	34	1.038	1.042	0.004
50	35	1.046	1.044	-0.002
50	36	1.046	1.044	-0.002
55	37	1.042	1.042	0.000
55	38	1.036	1.036	0.000
55	39	1.036	1.036	0.000
55	40	1.034	1.036	0.002
55	41	1.042	1.042	0.000
100	42	1.032	1.034	0.002
100	43	1.046	1.054	0.008
100	44	1.042	1.048	0.006
100	45	1.032	1.038	0.006
100	46	1.046	1.050	0.004
105	47	1.050	1.050	0.000
105	48	1.042	1.042	0.000
105	49	1.046	1.046	0.000
105	50	1.032	1.030	-0.002
105	51	1.032	1.038	0.006
Max		1.052	1.054	0.008
Average		1.041	1.042	0.001
Min		1.032	1.030	-0.002
Std Dev		0.006	0.006	0.002



	10.1_V_CS_ILIM_OC_Rise_4V	
Test Site		
Tester		
Test Number		
Max Limit	1.08	V
Min Limit	0.95	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Min	1.040	1.036	1.030	1.034	1.034	1.034	1.034	1.036	1.036	1.034	1.030
Average	1.044	1.043	1.037	1.041	1.042	1.042	1.043	1.043	1.038	1.045	1.041
Max	1.048	1.052	1.042	1.050	1.046	1.048	1.052	1.048	1.042	1.054	1.050
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

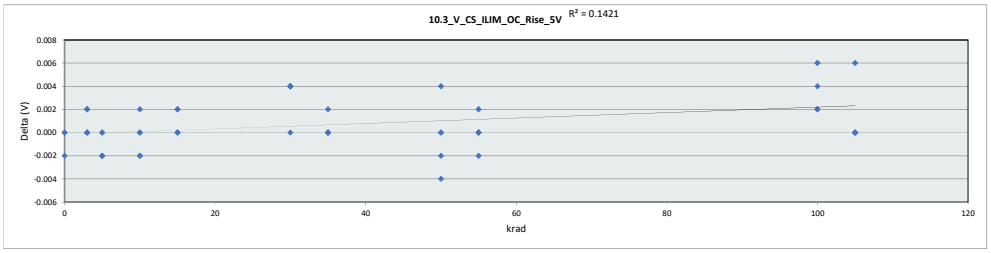


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

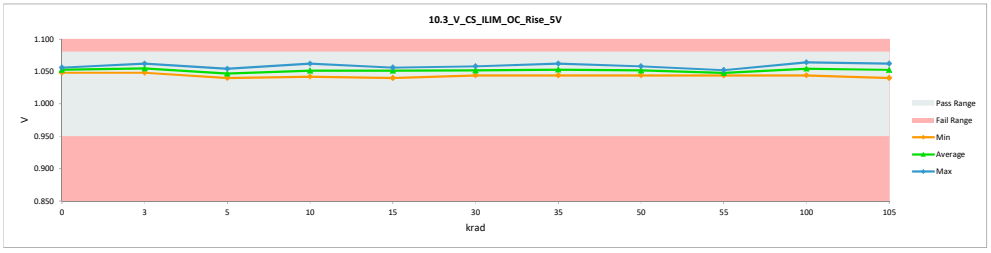
	10.3_V_CS_ILIM_OC_Rise_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.09	1.08
Min Limit	0.9	0.95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.058	1.056	-0.002
0	69	1.048	1.048	0.000
0	70	1.054	1.054	0.000
3	1	1.060	1.062	0.002
3	2	1.060	1.060	0.000
3	3	1.052	1.052	0.000
3	4	1.046	1.048	0.002
3	5	1.052	1.052	0.000
5	6	1.048	1.048	0.000
5	7	1.042	1.040	-0.002
5	8	1.044	1.042	-0.002
5	9	1.054	1.054	0.000
5	10	1.052	1.050	-0.002
10	11	1.042	1.042	0.000
10	12	1.044	1.044	0.000
10	13	1.052	1.054	0.002
10	14	1.056	1.054	-0.002
10	15	1.064	1.062	-0.002
15	16	1.054	1.056	0.002
15	17	1.054	1.054	0.000
15	19	1.050	1.050	0.000
15	20	1.040	1.040	0.000
15	21	1.054	1.056	0.002
30	22	1.040	1.044	0.004
30	23	1.046	1.050	0.004
30	24	1.050	1.054	0.004
30	25	1.052	1.052	0.000
30	26	1.054	1.058	0.004
35	27	1.044	1.046	0.002
35	28	1.044	1.044	0.000
35	29	1.062	1.062	0.000
35	30	1.060	1.060	0.000
35	31	1.052	1.052	0.000
50	32	1.044	1.044	0.000
50	33	1.058	1.058	0.000
50	34	1.046	1.050	0.004
50	35	1.056	1.054	-0.002
50	36	1.056	1.052	-0.004
55	37	1.052	1.052	0.000
55	38	1.046	1.046	0.000
55	39	1.046	1.046	0.000
55	40	1.042	1.044	0.002
55	41	1.052	1.050	-0.002
100	42	1.042	1.044	0.002
100	43	1.058	1.064	0.006
100	44	1.052	1.056	0.004
100	45	1.042	1.048	0.006
100	46	1.058	1.060	0.002
105	47	1.062	1.062	0.000
105	48	1.052	1.052	0.000
105	49	1.058	1.058	0.000
105	50	1.040	1.040	0.000
105	51	1.044	1.050	0.006
Max		1.064	1.064	0.006
Average		1.051	1.052	0.001
Min		1.040	1.040	-0.004
Std Dev		0.007	0.006	0.002



	10.3_V_CS_ILIM_OC_Rise_5V	
Test Site		
Tester		
Test Number		
Max Limit	1.08	V
Min Limit	0.95	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Min	1.048	1.048	1.040	1.042	1.040	1.044	1.044	1.044	1.044	1.044	1.040
Average	1.053	1.055	1.047	1.051	1.051	1.052	1.053	1.052	1.048	1.054	1.052
Max	1.056	1.062	1.054	1.062	1.056	1.058	1.062	1.058	1.052	1.064	1.062
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

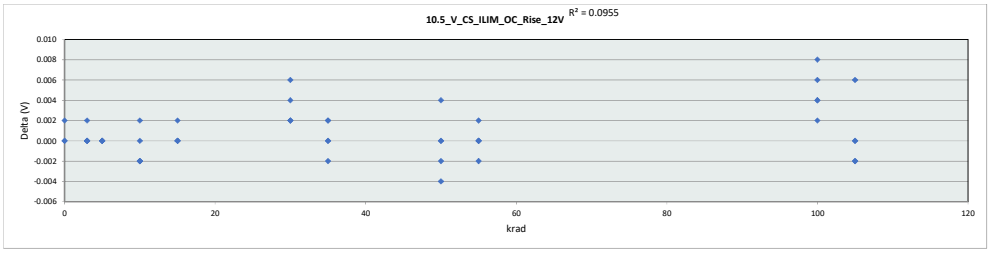


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

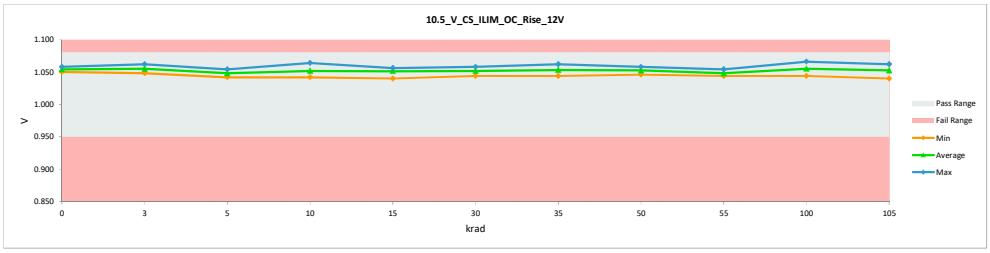
	10.5_V_CS_ILIM_OC_Rise_12	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.09	1.08
Min Limit	0.9	0.95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.058	1.058	0.000
0	69	1.050	1.050	0.000
0	70	1.052	1.054	0.002
3	1	1.062	1.062	0.000
3	2	1.060	1.060	0.000
3	3	1.050	1.052	0.002
3	4	1.048	1.048	0.000
3	5	1.052	1.052	0.000
5	6	1.048	1.048	0.000
5	7	1.042	1.042	0.000
5	8	1.044	1.044	0.000
5	9	1.054	1.054	0.000
5	10	1.052	1.052	0.000
10	11	1.044	1.042	-0.002
10	12	1.044	1.044	0.000
10	13	1.052	1.054	0.002
10	14	1.056	1.054	-0.002
10	15	1.066	1.064	-0.002
15	16	1.054	1.054	0.000
15	17	1.054	1.054	0.000
15	19	1.052	1.052	0.000
15	20	1.040	1.040	0.000
15	21	1.054	1.056	0.002
30	22	1.042	1.044	0.002
30	23	1.046	1.048	0.002
30	24	1.050	1.054	0.004
30	25	1.052	1.054	0.002
30	26	1.052	1.058	0.006
35	27	1.044	1.046	0.002
35	28	1.044	1.044	0.000
35	29	1.062	1.062	0.000
35	30	1.060	1.062	0.002
35	31	1.054	1.052	-0.002
50	32	1.046	1.046	0.000
50	33	1.058	1.058	0.000
50	34	1.048	1.052	0.004
50	35	1.056	1.054	-0.002
50	36	1.056	1.052	-0.004
55	37	1.054	1.054	0.000
55	38	1.046	1.046	0.000
55	39	1.046	1.046	0.000
55	40	1.042	1.044	0.002
55	41	1.052	1.050	-0.002
100	42	1.042	1.044	0.002
100	43	1.058	1.066	0.008
100	44	1.052	1.058	0.006
100	45	1.044	1.048	0.004
100	46	1.056	1.060	0.004
105	47	1.064	1.062	-0.002
105	48	1.052	1.052	0.000
105	49	1.058	1.058	0.000
105	50	1.042	1.040	-0.002
105	51	1.044	1.050	0.006
	Max	1.066	1.066	0.008
	Average	1.051	1.052	0.001
	Min	1.040	1.040	-0.004
	Std Dev	0.006	0.006	0.002



	10.5_V_CS_ILIM_OC_Rise_12V	
Test Site		
Tester		
Test Number		
Max Limit	1.08	V
Min Limit	0.95	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Min	1.050	1.048	1.042	1.042	1.040	1.044	1.044	1.046	1.044	1.044	1.040
Average	1.054	1.055	1.048	1.052	1.051	1.052	1.053	1.052	1.048	1.055	1.052
Max	1.058	1.062	1.054	1.064	1.056	1.058	1.062	1.058	1.054	1.066	1.062
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

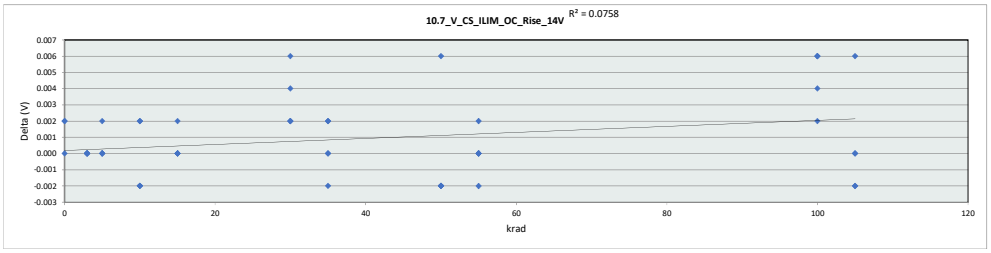


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

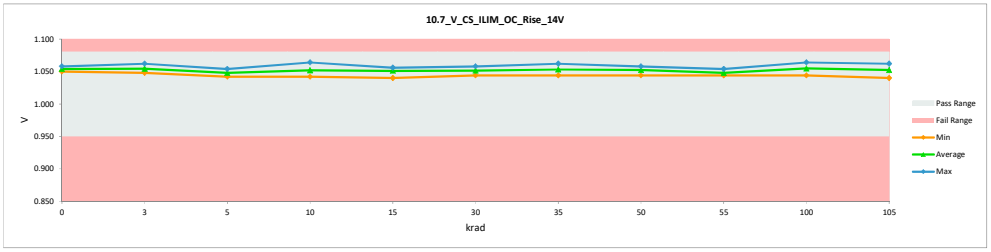
	10.7_V_CS_ILIM_OC_Rise_14	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.09	1.08
Min Limit	0.9	0.95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	1.058	1.058	0.000
0	69	1.048	1.050	0.002
0	70	1.052	1.054	0.002
3	1	1.062	1.062	0.000
3	2	1.060	1.060	0.000
3	3	1.050	1.050	0.000
3	4	1.048	1.048	0.000
3	5	1.052	1.052	0.000
5	6	1.046	1.048	0.002
5	7	1.042	1.042	0.000
5	8	1.044	1.044	0.000
5	9	1.054	1.054	0.000
5	10	1.052	1.052	0.000
10	11	1.044	1.042	-0.002
10	12	1.044	1.046	0.002
10	13	1.052	1.054	0.002
10	14	1.056	1.054	-0.002
10	15	1.066	1.064	-0.002
15	16	1.054	1.054	0.000
15	17	1.054	1.054	0.000
15	19	1.052	1.052	0.000
15	20	1.040	1.040	0.000
15	21	1.054	1.056	0.002
30	22	1.042	1.044	0.002
30	23	1.046	1.048	0.002
30	24	1.050	1.054	0.004
30	25	1.052	1.054	0.002
30	26	1.052	1.058	0.006
35	27	1.044	1.046	0.002
35	28	1.044	1.044	0.000
35	29	1.062	1.062	0.000
35	30	1.060	1.062	0.002
35	31	1.054	1.052	-0.002
50	32	1.046	1.044	-0.002
50	33	1.060	1.058	-0.002
50	34	1.046	1.052	0.006
50	35	1.056	1.054	-0.002
50	36	1.056	1.054	-0.002
55	37	1.054	1.054	0.000
55	38	1.046	1.046	0.000
55	39	1.046	1.046	0.000
55	40	1.042	1.044	0.002
55	41	1.052	1.050	-0.002
100	42	1.042	1.044	0.002
100	43	1.058	1.064	0.006
100	44	1.052	1.058	0.006
100	45	1.042	1.048	0.006
100	46	1.056	1.060	0.004
105	47	1.064	1.062	-0.002
105	48	1.052	1.052	0.000
105	49	1.058	1.058	0.000
105	50	1.042	1.040	-0.002
105	51	1.044	1.050	0.006
	Max	1.066	1.064	0.006
	Average	1.051	1.052	0.001
	Min	1.040	1.040	-0.002
	Std Dev	0.007	0.006	0.002



	10.7_V_CS_ILIM_OC_Rise_14V	
Test Site		
Tester		
Test Number		
Max Limit	1.08	V
Min Limit	0.95	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Min	1.050	1.048	1.042	1.042	1.040	1.044	1.044	1.044	1.044	1.044	1.040
Average	1.054	1.054	1.048	1.052	1.051	1.052	1.053	1.052	1.048	1.055	1.052
Max	1.058	1.062	1.054	1.064	1.056	1.058	1.062	1.058	1.054	1.064	1.062
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

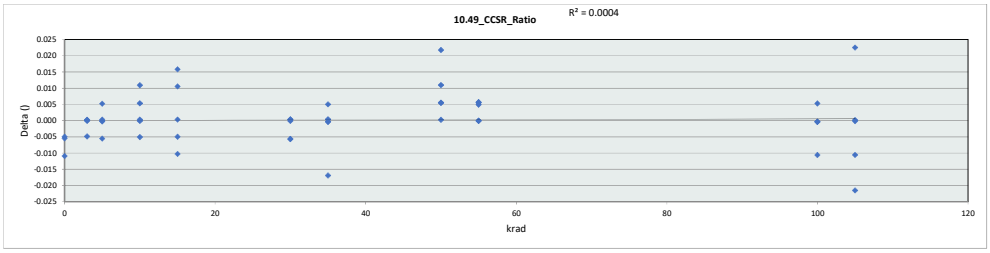


TID HDR Report
TPS7H5002-SP QMLP

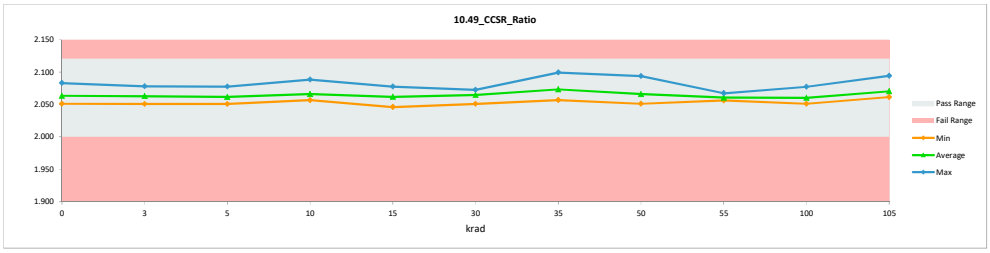
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

10.49_CCSR_Ratio			
Test Site			
Tester			
Test Number			
Unit			
Max Limit	2.12	2.12	
Min Limit	2	2	

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	2.057	2.051	-0.006
0	69	2.061	2.056	-0.005
0	70	2.094	2.083	-0.011
3	1	2.056	2.056	0.000
3	2	2.051	2.051	0.000
3	3	2.072	2.073	0.000
3	4	2.083	2.078	-0.005
3	5	2.056	2.056	0.000
5	6	2.056	2.056	0.000
5	7	2.056	2.051	-0.006
5	8	2.062	2.062	0.000
5	9	2.072	2.078	0.005
5	10	2.062	2.061	0.000
10	11	2.078	2.088	0.011
10	12	2.077	2.072	-0.005
10	13	2.051	2.056	0.005
10	14	2.056	2.056	0.000
10	15	2.057	2.057	0.000
15	16	2.061	2.056	-0.005
15	17	2.067	2.078	0.010
15	19	2.077	2.067	-0.010
15	20	2.046	2.046	0.000
15	21	2.046	2.062	0.016
30	22	2.072	2.073	0.000
30	23	2.078	2.072	-0.006
30	24	2.067	2.061	-0.006
30	25	2.051	2.051	0.000
30	26	2.067	2.067	0.000
35	27	2.056	2.057	0.000
35	28	2.078	2.077	0.000
35	29	2.067	2.072	0.005
35	30	2.078	2.061	-0.017
35	31	2.100	2.099	0.000
50	32	2.067	2.067	0.000
50	33	2.046	2.051	0.005
50	34	2.072	2.094	0.022
50	35	2.056	2.067	0.011
50	36	2.046	2.051	0.005
55	37	2.062	2.062	0.000
55	38	2.051	2.056	0.005
55	39	2.056	2.062	0.005
55	40	2.057	2.056	0.000
55	41	2.062	2.067	0.006
100	42	2.056	2.056	0.000
100	43	2.062	2.051	-0.011
100	44	2.057	2.056	0.000
100	45	2.078	2.077	0.000
100	46	2.056	2.062	0.005
105	47	2.083	2.072	-0.011
105	48	2.062	2.062	0.000
105	49	2.083	2.062	-0.022
105	50	2.072	2.094	0.022
105	51	2.061	2.061	0.000
Max		2.100	2.099	0.022
Average		2.064	2.065	0.000
Min		2.046	2.046	-0.022
Std Dev		0.012	0.012	0.008



10.49_CCSR_Ratio											
Test Site											
Tester											
Test Number											
Max Limit	2.12										
Min Limit	2										
krad	0	3	5	10	15	30	35	50	55	100	105
LL	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
Min	2.051	2.051	2.051	2.056	2.046	2.051	2.057	2.051	2.056	2.051	2.061
Average	2.063	2.063	2.062	2.066	2.062	2.065	2.073	2.066	2.061	2.060	2.070
Max	2.083	2.078	2.078	2.088	2.078	2.073	2.099	2.094	2.067	2.077	2.094
UL	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120

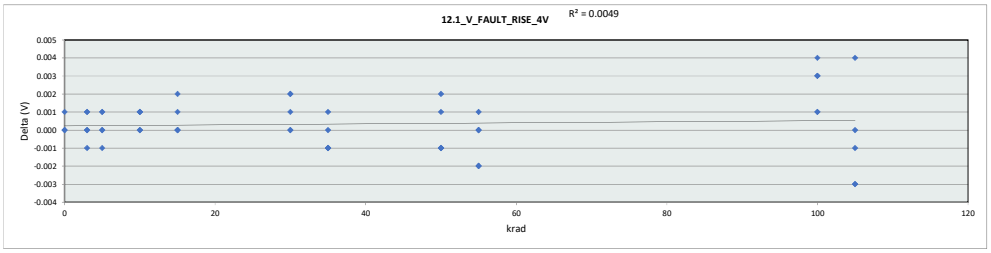


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

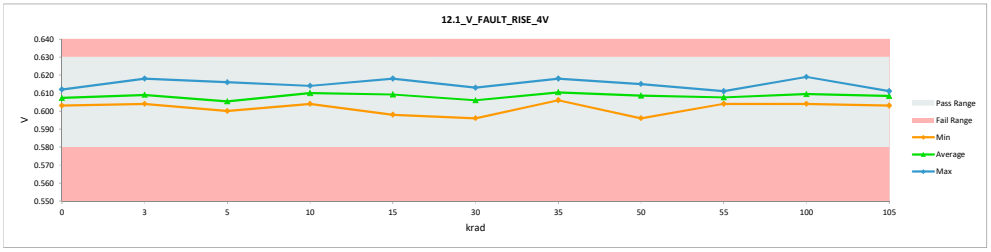
	12.1_V_FAULT_RISE_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.612	0.612	0.000
0	69	0.602	0.603	0.001
0	70	0.607	0.607	0.000
3	1	0.610	0.610	0.000
3	2	0.618	0.618	0.000
3	3	0.607	0.608	0.001
3	4	0.604	0.605	0.001
3	5	0.605	0.604	-0.001
5	6	0.602	0.602	0.000
5	7	0.608	0.609	0.001
5	8	0.599	0.600	0.001
5	9	0.617	0.616	-0.001
5	10	0.600	0.600	0.000
10	11	0.609	0.609	0.000
10	12	0.610	0.611	0.001
10	13	0.603	0.604	0.001
10	14	0.614	0.614	0.000
10	15	0.611	0.612	0.001
15	16	0.617	0.618	0.001
15	17	0.611	0.611	0.000
15	19	0.598	0.598	0.000
15	20	0.607	0.609	0.002
15	21	0.610	0.610	0.000
30	22	0.609	0.611	0.002
30	23	0.594	0.596	0.002
30	24	0.607	0.608	0.001
30	25	0.613	0.613	0.000
30	26	0.602	0.602	0.000
35	27	0.609	0.609	0.000
35	28	0.605	0.606	0.001
35	29	0.619	0.618	-0.001
35	30	0.611	0.610	-0.001
35	31	0.610	0.609	-0.001
50	32	0.597	0.596	-0.001
50	33	0.613	0.615	0.002
50	34	0.611	0.610	-0.001
50	35	0.608	0.609	0.001
50	36	0.614	0.613	-0.001
55	37	0.609	0.609	0.000
55	38	0.606	0.604	-0.002
55	39	0.604	0.604	0.000
55	40	0.613	0.611	-0.002
55	41	0.609	0.610	0.001
100	42	0.611	0.612	0.001
100	43	0.616	0.619	0.003
100	44	0.602	0.605	0.003
100	45	0.606	0.607	0.001
100	46	0.600	0.604	0.004
105	47	0.607	0.611	0.004
105	48	0.610	0.610	0.000
105	49	0.611	0.610	-0.001
105	50	0.606	0.603	-0.003
105	51	0.611	0.608	-0.003
Max		0.619	0.619	0.004
Average		0.608	0.608	0.000
Min		0.594	0.596	-0.003
Std Dev		0.005	0.005	0.001



	12.1_V_FAULT_RISE_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.603	0.604	0.600	0.604	0.598	0.596	0.606	0.596	0.604	0.604	0.603
Average	0.607	0.609	0.605	0.610	0.609	0.606	0.610	0.609	0.608	0.609	0.608
Max	0.612	0.618	0.616	0.614	0.618	0.613	0.618	0.615	0.611	0.619	0.611
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

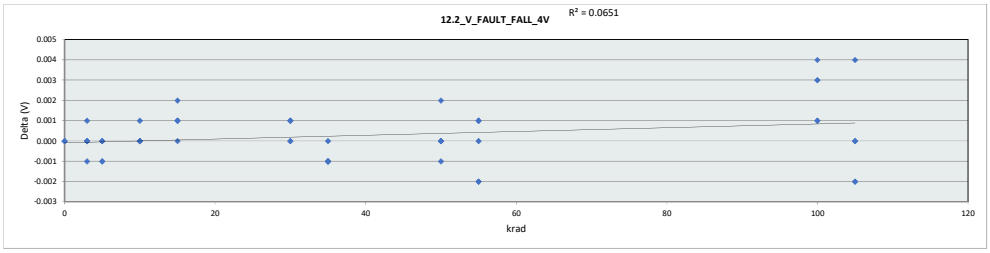


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

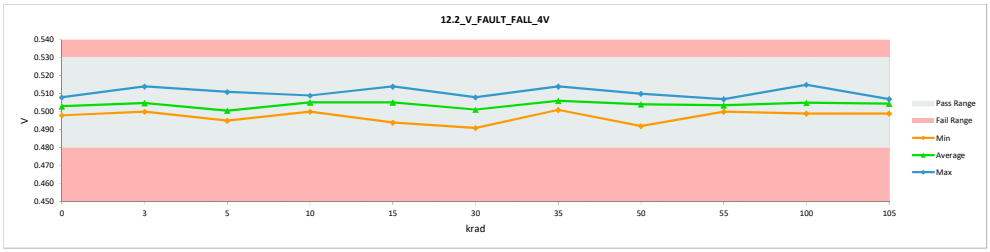
	12.2_V_FAULT_FALL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.508	0.508	0.000
0	69	0.498	0.498	0.000
0	70	0.503	0.503	0.000
3	1	0.506	0.506	0.000
3	2	0.514	0.514	0.000
3	3	0.503	0.503	0.000
3	4	0.500	0.501	0.001
3	5	0.501	0.500	-0.001
5	6	0.498	0.497	-0.001
5	7	0.504	0.504	0.000
5	8	0.495	0.495	0.000
5	9	0.512	0.511	-0.001
5	10	0.496	0.496	0.000
10	11	0.504	0.504	0.000
10	12	0.506	0.506	0.000
10	13	0.499	0.500	0.001
10	14	0.509	0.509	0.000
10	15	0.507	0.507	0.000
15	16	0.513	0.514	0.001
15	17	0.507	0.507	0.000
15	19	0.493	0.494	0.001
15	20	0.503	0.505	0.002
15	21	0.505	0.506	0.001
30	22	0.505	0.506	0.001
30	23	0.490	0.491	0.001
30	24	0.503	0.503	0.000
30	25	0.508	0.508	0.000
30	26	0.497	0.498	0.001
35	27	0.505	0.504	-0.001
35	28	0.502	0.501	-0.001
35	29	0.515	0.514	-0.001
35	30	0.507	0.506	-0.001
35	31	0.505	0.505	0.000
50	32	0.492	0.492	0.000
50	33	0.508	0.510	0.002
50	34	0.507	0.506	-0.001
50	35	0.504	0.504	0.000
50	36	0.509	0.509	0.000
55	37	0.505	0.505	0.000
55	38	0.502	0.500	-0.002
55	39	0.499	0.500	0.001
55	40	0.509	0.507	-0.002
55	41	0.505	0.506	0.001
100	42	0.506	0.507	0.001
100	43	0.512	0.515	0.003
100	44	0.498	0.501	0.003
100	45	0.502	0.503	0.001
100	46	0.495	0.499	0.004
105	47	0.503	0.507	0.004
105	48	0.506	0.506	0.000
105	49	0.506	0.506	0.000
105	50	0.501	0.499	-0.002
105	51	0.506	0.504	-0.002
Max		0.515	0.515	0.004
Average		0.504	0.504	0.000
Min		0.490	0.491	-0.002
Std Dev		0.005	0.005	0.001



	12.2_V_FAULT_FALL_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.498	0.500	0.495	0.500	0.494	0.491	0.501	0.492	0.500	0.499	0.499
Average	0.503	0.505	0.501	0.505	0.505	0.501	0.506	0.504	0.504	0.505	0.504
Max	0.508	0.514	0.511	0.509	0.514	0.508	0.514	0.510	0.507	0.515	0.507
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

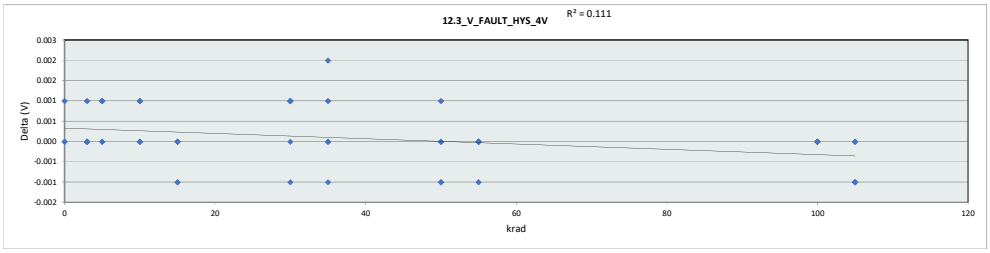


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

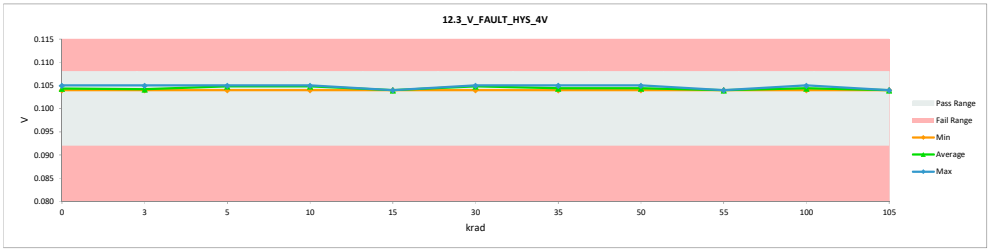
	12.3_V_FAULT_HYS_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.108
Min Limit	0.09	0.092

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.104	0.104	0.000
0	69	0.104	0.105	0.001
0	70	0.104	0.104	0.000
3	1	0.104	0.104	0.000
3	2	0.104	0.104	0.000
3	3	0.104	0.105	0.001
3	4	0.104	0.104	0.000
3	5	0.104	0.104	0.000
5	6	0.104	0.105	0.001
5	7	0.104	0.105	0.001
5	8	0.104	0.105	0.001
5	9	0.105	0.105	0.000
5	10	0.104	0.104	0.000
10	11	0.105	0.105	0.000
10	12	0.104	0.105	0.001
10	13	0.104	0.104	0.000
10	14	0.105	0.105	0.000
10	15	0.104	0.105	0.001
15	16	0.104	0.104	0.000
15	17	0.104	0.104	0.000
15	19	0.105	0.104	-0.001
15	20	0.104	0.104	0.000
15	21	0.105	0.104	-0.001
30	22	0.104	0.105	0.001
30	23	0.104	0.105	0.001
30	24	0.104	0.105	0.001
30	25	0.105	0.105	0.000
30	26	0.105	0.104	-0.001
35	27	0.104	0.105	0.001
35	28	0.103	0.105	0.002
35	29	0.104	0.104	0.000
35	30	0.104	0.104	0.000
35	31	0.105	0.104	-0.001
50	32	0.105	0.104	-0.001
50	33	0.105	0.105	0.000
50	34	0.104	0.104	0.000
50	35	0.104	0.105	0.001
50	36	0.105	0.104	-0.001
55	37	0.104	0.104	0.000
55	38	0.104	0.104	0.000
55	39	0.105	0.104	-0.001
55	40	0.104	0.104	0.000
55	41	0.104	0.104	0.000
100	42	0.105	0.105	0.000
100	43	0.104	0.104	0.000
100	44	0.104	0.104	0.000
100	45	0.104	0.104	0.000
100	46	0.105	0.105	0.000
105	47	0.104	0.104	0.000
105	48	0.104	0.104	0.000
105	49	0.105	0.104	-0.001
105	50	0.105	0.104	-0.001
105	51	0.105	0.104	-0.001
	Max	0.105	0.105	0.002
	Average	0.104	0.104	0.000
	Min	0.103	0.104	-0.001
	Std Dev	0.001	0.000	0.001



	12.3_V_FAULT_HYS_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.108	V
Min Limit	0.092	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
Min	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
Average	0.104	0.104	0.105	0.105	0.104	0.105	0.104	0.104	0.104	0.104	0.104
Max	0.105	0.105	0.105	0.105	0.104	0.105	0.105	0.105	0.104	0.105	0.104
UL	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108

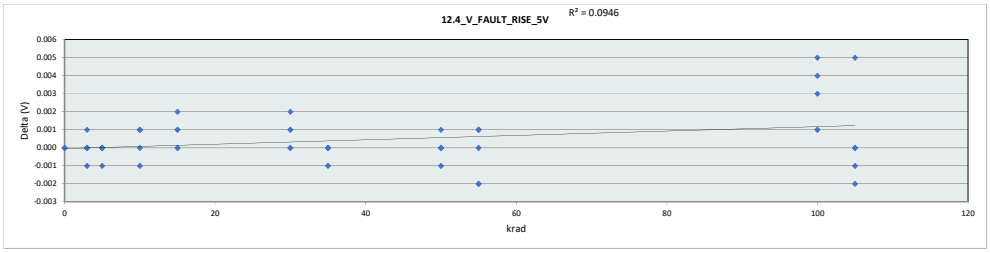


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

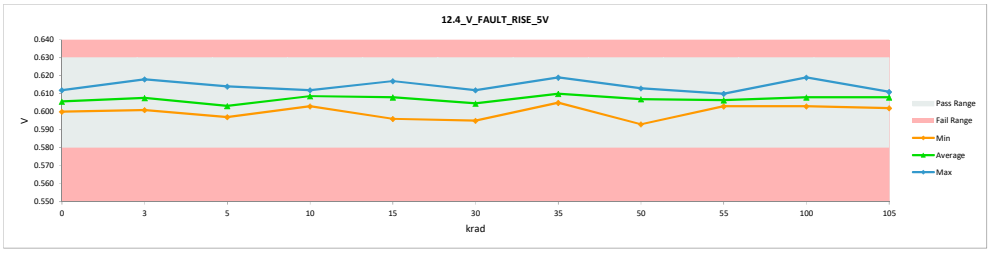
	12.4_V_FAULT_RISE_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.612	0.612	0.000
0	69	0.600	0.600	0.000
0	70	0.605	0.605	0.000
3	1	0.608	0.608	0.000
3	2	0.618	0.618	0.000
3	3	0.606	0.607	0.001
3	4	0.604	0.604	0.000
3	5	0.602	0.601	-0.001
5	6	0.600	0.600	0.000
5	7	0.607	0.607	0.000
5	8	0.597	0.597	0.000
5	9	0.615	0.614	-0.001
5	10	0.598	0.598	0.000
10	11	0.606	0.606	0.000
10	12	0.609	0.610	0.001
10	13	0.602	0.603	0.001
10	14	0.613	0.612	-0.001
10	15	0.611	0.612	0.001
15	16	0.616	0.617	0.001
15	17	0.610	0.610	0.000
15	19	0.595	0.596	0.001
15	20	0.606	0.608	0.002
15	21	0.609	0.609	0.000
30	22	0.608	0.609	0.001
30	23	0.593	0.595	0.002
30	24	0.606	0.606	0.000
30	25	0.612	0.612	0.000
30	26	0.600	0.601	0.001
35	27	0.608	0.608	0.000
35	28	0.605	0.605	0.000
35	29	0.619	0.619	0.000
35	30	0.611	0.610	-0.001
35	31	0.608	0.608	0.000
50	32	0.593	0.593	0.000
50	33	0.612	0.613	0.001
50	34	0.610	0.610	0.000
50	35	0.607	0.606	-0.001
50	36	0.613	0.613	0.000
55	37	0.608	0.608	0.000
55	38	0.606	0.604	-0.002
55	39	0.602	0.603	0.001
55	40	0.612	0.610	-0.002
55	41	0.606	0.607	0.001
100	42	0.609	0.610	0.001
100	43	0.615	0.619	0.004
100	44	0.600	0.603	0.003
100	45	0.604	0.605	0.001
100	46	0.598	0.603	0.005
105	47	0.606	0.611	0.005
105	48	0.610	0.610	0.000
105	49	0.610	0.610	0.000
105	50	0.603	0.602	-0.001
105	51	0.609	0.607	-0.002
Max		0.619	0.619	0.005
Average		0.607	0.607	0.000
Min		0.593	0.593	-0.002
Std Dev		0.006	0.006	0.001



	12.4_V_FAULT_RISE_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.600	0.601	0.597	0.603	0.596	0.595	0.605	0.593	0.603	0.603	0.602
Average	0.606	0.608	0.603	0.609	0.608	0.605	0.610	0.607	0.606	0.608	0.608
Max	0.612	0.618	0.614	0.612	0.617	0.612	0.619	0.613	0.610	0.619	0.611
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

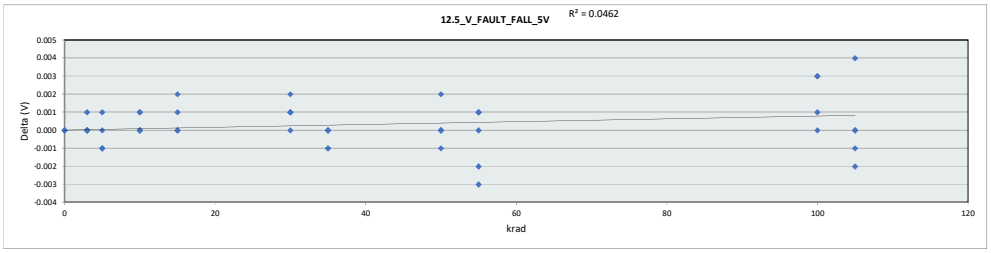


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

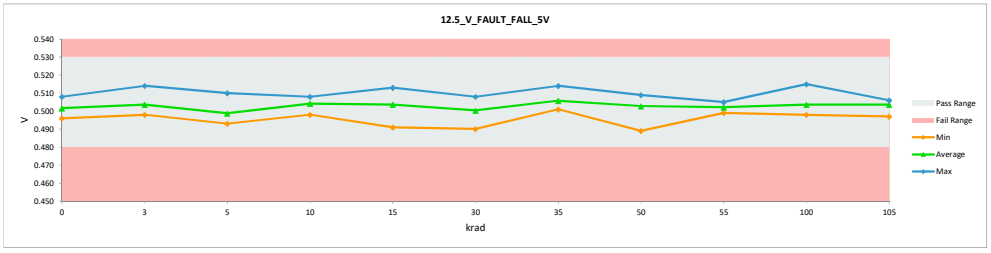
	12.5_V_FAULT_FALL_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.508	0.508	0.000
0	69	0.496	0.496	0.000
0	70	0.501	0.501	0.000
3	1	0.504	0.504	0.000
3	2	0.514	0.514	0.000
3	3	0.502	0.502	0.000
3	4	0.499	0.500	0.001
3	5	0.498	0.498	0.000
5	6	0.496	0.495	-0.001
5	7	0.503	0.503	0.000
5	8	0.492	0.493	0.001
5	9	0.511	0.510	-0.001
5	10	0.494	0.493	-0.001
10	11	0.502	0.502	0.000
10	12	0.505	0.506	0.001
10	13	0.498	0.498	0.000
10	14	0.508	0.508	0.000
10	15	0.506	0.507	0.001
15	16	0.512	0.513	0.001
15	17	0.506	0.506	0.000
15	19	0.491	0.491	0.000
15	20	0.501	0.503	0.002
15	21	0.505	0.505	0.000
30	22	0.503	0.505	0.002
30	23	0.489	0.490	0.001
30	24	0.502	0.502	0.000
30	25	0.507	0.508	0.001
30	26	0.496	0.497	0.001
35	27	0.504	0.504	0.000
35	28	0.501	0.501	0.000
35	29	0.515	0.514	-0.001
35	30	0.507	0.506	-0.001
35	31	0.504	0.504	0.000
50	32	0.489	0.489	0.000
50	33	0.507	0.509	0.002
50	34	0.506	0.506	0.000
50	35	0.502	0.501	-0.001
50	36	0.509	0.509	0.000
55	37	0.504	0.504	0.000
55	38	0.502	0.500	-0.002
55	39	0.498	0.499	0.001
55	40	0.508	0.505	-0.003
55	41	0.502	0.503	0.001
100	42	0.505	0.505	0.000
100	43	0.512	0.515	0.003
100	44	0.496	0.499	0.003
100	45	0.500	0.501	0.001
100	46	0.495	0.498	0.003
105	47	0.502	0.506	0.004
105	48	0.506	0.506	0.000
105	49	0.506	0.506	0.000
105	50	0.498	0.497	-0.001
105	51	0.505	0.503	-0.002
Max		0.515	0.515	0.004
Average		0.502	0.503	0.000
Min		0.489	0.489	-0.003
Std Dev		0.006	0.006	0.001



	12.5_V_FAULT_FALL_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.496	0.498	0.493	0.498	0.491	0.490	0.501	0.489	0.499	0.498	0.497
Average	0.502	0.504	0.499	0.504	0.504	0.500	0.506	0.503	0.502	0.504	0.504
Max	0.508	0.514	0.510	0.508	0.513	0.508	0.514	0.509	0.505	0.515	0.506
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

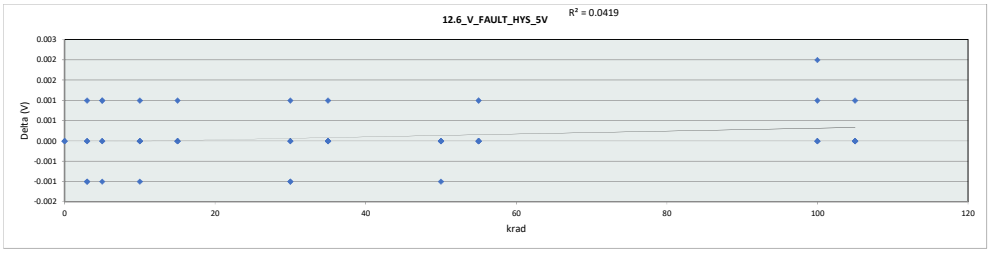


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

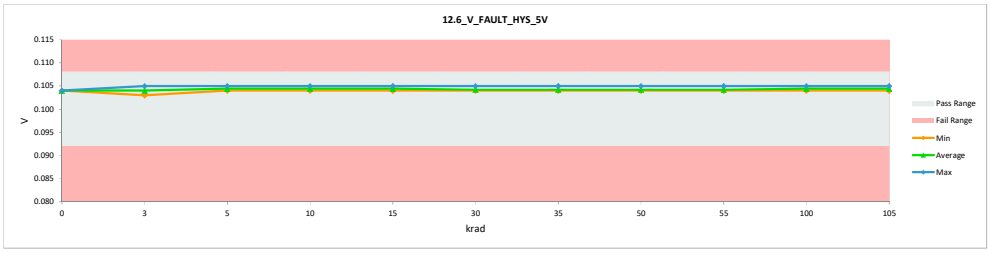
	12.6_V_FAULT_HYS_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.108
Min Limit	0.09	0.092

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.104	0.104	0.000
0	69	0.104	0.104	0.000
0	70	0.104	0.104	0.000
3	1	0.104	0.104	0.000
3	2	0.104	0.104	0.000
3	3	0.104	0.105	0.001
3	4	0.105	0.104	-0.001
3	5	0.104	0.103	-0.001
5	6	0.104	0.105	0.001
5	7	0.104	0.104	0.000
5	8	0.105	0.104	-0.001
5	9	0.104	0.104	0.000
5	10	0.104	0.105	0.001
10	11	0.104	0.104	0.000
10	12	0.104	0.104	0.000
10	13	0.104	0.105	0.001
10	14	0.105	0.104	-0.001
10	15	0.105	0.105	0.000
15	16	0.104	0.104	0.000
15	17	0.104	0.104	0.000
15	19	0.104	0.105	0.001
15	20	0.105	0.105	0.000
15	21	0.104	0.104	0.000
30	22	0.105	0.104	-0.001
30	23	0.104	0.105	0.001
30	24	0.104	0.104	0.000
30	25	0.105	0.104	-0.001
30	26	0.104	0.104	0.000
35	27	0.104	0.104	0.000
35	28	0.104	0.104	0.000
35	29	0.104	0.105	0.001
35	30	0.104	0.104	0.000
35	31	0.104	0.104	0.000
50	32	0.104	0.104	0.000
50	33	0.105	0.104	-0.001
50	34	0.104	0.104	0.000
50	35	0.105	0.105	0.000
50	36	0.104	0.104	0.000
55	37	0.104	0.104	0.000
55	38	0.104	0.104	0.000
55	39	0.104	0.104	0.000
55	40	0.104	0.105	0.001
55	41	0.104	0.104	0.000
100	42	0.104	0.105	0.001
100	43	0.104	0.104	0.000
100	44	0.104	0.104	0.000
100	45	0.104	0.104	0.000
100	46	0.103	0.105	0.002
105	47	0.104	0.105	0.001
105	48	0.104	0.104	0.000
105	49	0.104	0.104	0.000
105	50	0.105	0.105	0.000
105	51	0.104	0.104	0.000
Max		0.105	0.105	0.002
Average		0.104	0.104	0.000
Min		0.103	0.103	-0.001
Std Dev		0.000	0.000	0.001



	12.6_V_FAULT_HYS_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.108	V
Min Limit	0.092	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
Min	0.104	0.103	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
Average	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
Max	0.104	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
UL	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108

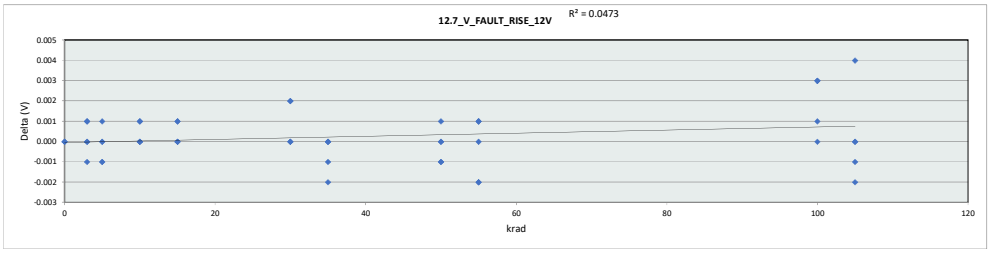


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

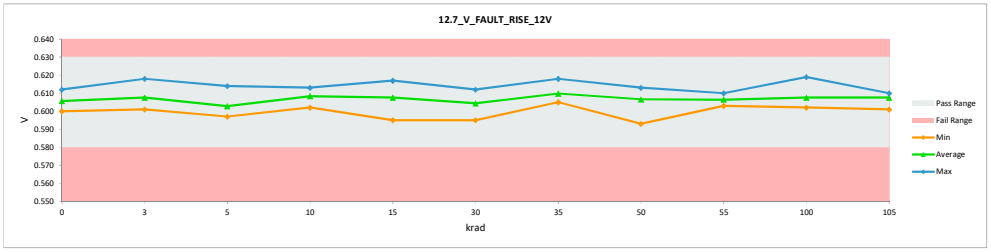
	12.7_V_FAULT_RISE_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.612	0.612	0.000
0	69	0.600	0.600	0.000
0	70	0.605	0.605	0.000
3	1	0.608	0.608	0.000
3	2	0.618	0.618	0.000
3	3	0.606	0.607	0.001
3	4	0.603	0.604	0.001
3	5	0.602	0.601	-0.001
5	6	0.599	0.599	0.000
5	7	0.607	0.607	0.000
5	8	0.596	0.597	0.001
5	9	0.615	0.614	-0.001
5	10	0.598	0.597	-0.001
10	11	0.605	0.606	0.001
10	12	0.609	0.610	0.001
10	13	0.602	0.602	0.000
10	14	0.613	0.613	0.000
10	15	0.611	0.611	0.000
15	16	0.616	0.617	0.001
15	17	0.610	0.610	0.000
15	19	0.595	0.595	0.000
15	20	0.606	0.607	0.001
15	21	0.609	0.609	0.000
30	22	0.607	0.609	0.002
30	23	0.593	0.595	0.002
30	24	0.606	0.606	0.000
30	25	0.612	0.612	0.000
30	26	0.600	0.600	0.000
35	27	0.608	0.608	0.000
35	28	0.605	0.605	0.000
35	29	0.620	0.618	-0.002
35	30	0.611	0.610	-0.001
35	31	0.608	0.608	0.000
50	32	0.593	0.593	0.000
50	33	0.612	0.613	0.001
50	34	0.610	0.609	-0.001
50	35	0.606	0.605	-0.001
50	36	0.613	0.613	0.000
55	37	0.608	0.608	0.000
55	38	0.606	0.604	-0.002
55	39	0.602	0.603	0.001
55	40	0.612	0.610	-0.002
55	41	0.606	0.607	0.001
100	42	0.609	0.609	0.000
100	43	0.616	0.619	0.003
100	44	0.600	0.603	0.003
100	45	0.604	0.605	0.001
100	46	0.599	0.602	0.003
105	47	0.606	0.610	0.004
105	48	0.610	0.610	0.000
105	49	0.610	0.610	0.000
105	50	0.602	0.601	-0.001
105	51	0.609	0.607	-0.002
	Max	0.620	0.619	0.004
	Average	0.607	0.607	0.000
	Min	0.593	0.593	-0.002
	Std Dev	0.006	0.006	0.001



	12.7_V_FAULT_RISE_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.600	0.601	0.597	0.602	0.595	0.595	0.605	0.593	0.603	0.602	0.601
Average	0.606	0.608	0.603	0.608	0.608	0.604	0.610	0.607	0.606	0.608	0.608
Max	0.612	0.618	0.614	0.613	0.617	0.612	0.618	0.613	0.610	0.619	0.610
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

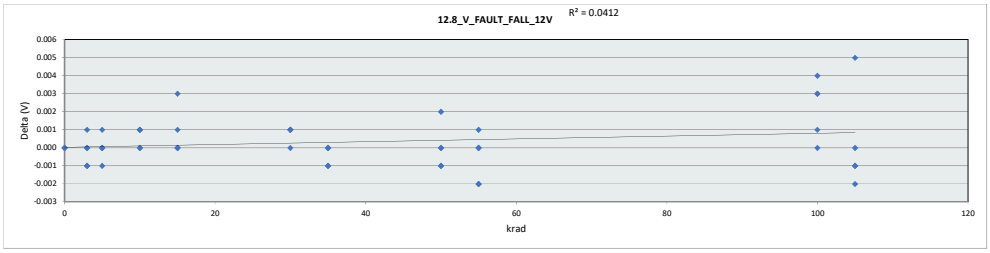


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

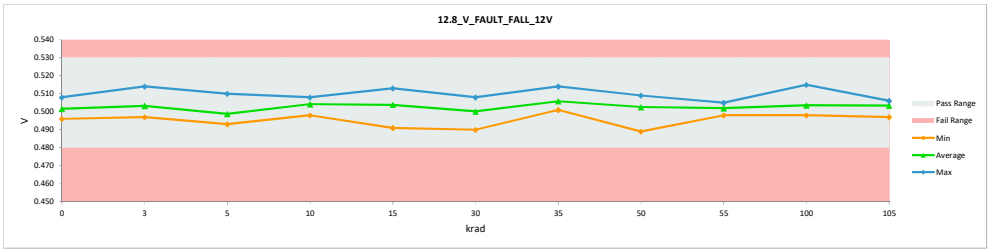
	12.8_V_FALL_FALL_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.508	0.508	0.000
0	69	0.496	0.496	0.000
0	70	0.501	0.501	0.000
3	1	0.504	0.503	-0.001
3	2	0.514	0.514	0.000
3	3	0.502	0.502	0.000
3	4	0.499	0.500	0.001
3	5	0.498	0.497	-0.001
5	6	0.495	0.495	0.000
5	7	0.503	0.503	0.000
5	8	0.492	0.493	0.001
5	9	0.511	0.510	-0.001
5	10	0.493	0.493	0.000
10	11	0.501	0.502	0.001
10	12	0.505	0.506	0.001
10	13	0.498	0.498	0.000
10	14	0.508	0.508	0.000
10	15	0.506	0.507	0.001
15	16	0.512	0.513	0.001
15	17	0.506	0.506	0.000
15	19	0.491	0.491	0.000
15	20	0.501	0.504	0.003
15	21	0.505	0.505	0.000
30	22	0.503	0.504	0.001
30	23	0.489	0.490	0.001
30	24	0.502	0.502	0.000
30	25	0.507	0.508	0.001
30	26	0.496	0.497	0.001
35	27	0.504	0.504	0.000
35	28	0.501	0.501	0.000
35	29	0.515	0.514	-0.001
35	30	0.507	0.506	-0.001
35	31	0.504	0.504	0.000
50	32	0.489	0.489	0.000
50	33	0.507	0.509	0.002
50	34	0.506	0.505	-0.001
50	35	0.502	0.501	-0.001
50	36	0.509	0.509	0.000
55	37	0.504	0.504	0.000
55	38	0.502	0.500	-0.002
55	39	0.498	0.498	0.000
55	40	0.507	0.505	-0.002
55	41	0.502	0.503	0.001
100	42	0.505	0.505	0.000
100	43	0.512	0.515	0.003
100	44	0.496	0.499	0.003
100	45	0.500	0.501	0.001
100	46	0.494	0.498	0.004
105	47	0.501	0.506	0.005
105	48	0.506	0.506	0.000
105	49	0.506	0.505	-0.001
105	50	0.498	0.497	-0.001
105	51	0.505	0.503	-0.002
	Max	0.515	0.515	0.005
	Average	0.502	0.503	0.000
	Min	0.489	0.489	-0.002
	Std Dev	0.006	0.006	0.001



	12.8_V_FAULT_FALL_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.496	0.497	0.493	0.498	0.491	0.490	0.501	0.489	0.498	0.498	0.497
Average	0.502	0.503	0.499	0.504	0.504	0.500	0.506	0.503	0.502	0.504	0.503
Max	0.508	0.514	0.510	0.508	0.513	0.508	0.514	0.509	0.505	0.515	0.506
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

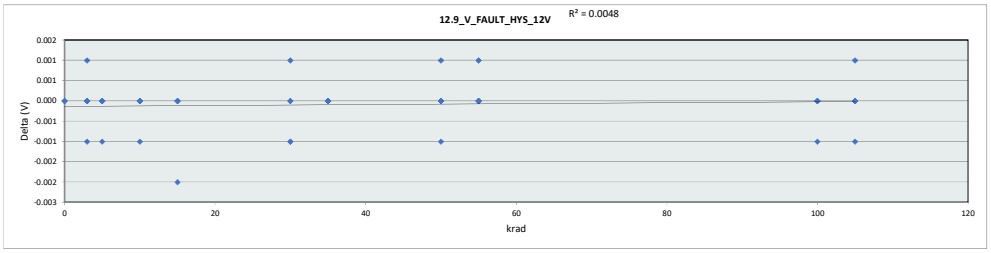


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

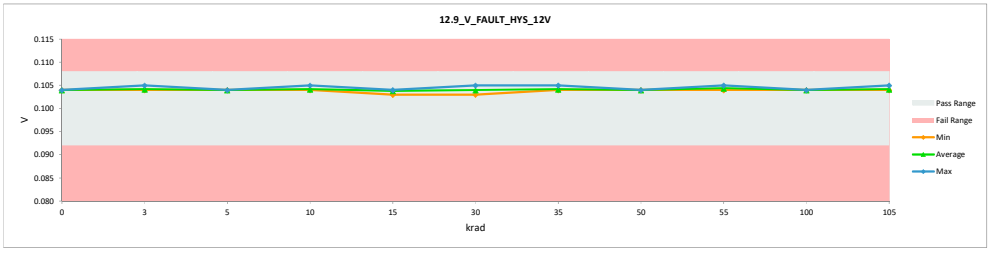
	12.9_V_FAULT_HYS_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.108
Min Limit	0.09	0.092

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.104	0.104	0.000
0	69	0.104	0.104	0.000
0	70	0.104	0.104	0.000
3	1	0.104	0.105	0.001
3	2	0.104	0.104	0.000
3	3	0.104	0.104	0.000
3	4	0.105	0.104	-0.001
3	5	0.104	0.104	0.000
5	6	0.104	0.104	0.000
5	7	0.104	0.104	0.000
5	8	0.104	0.104	0.000
5	9	0.104	0.104	0.000
5	10	0.105	0.104	-0.001
10	11	0.104	0.104	0.000
10	12	0.104	0.104	0.000
10	13	0.104	0.104	0.000
10	14	0.105	0.105	0.000
10	15	0.105	0.104	-0.001
15	16	0.104	0.104	0.000
15	17	0.104	0.104	0.000
15	19	0.104	0.104	0.000
15	20	0.105	0.103	-0.002
15	21	0.104	0.104	0.000
30	22	0.104	0.104	0.000
30	23	0.104	0.105	0.001
30	24	0.104	0.104	0.000
30	25	0.105	0.104	-0.001
30	26	0.104	0.103	-0.001
35	27	0.104	0.104	0.000
35	28	0.104	0.104	0.000
35	29	0.105	0.105	0.000
35	30	0.104	0.104	0.000
35	31	0.104	0.104	0.000
50	32	0.104	0.104	0.000
50	33	0.105	0.104	-0.001
50	34	0.104	0.104	0.000
50	35	0.104	0.104	0.000
50	36	0.103	0.104	0.001
55	37	0.104	0.104	0.000
55	38	0.104	0.104	0.000
55	39	0.104	0.105	0.001
55	40	0.105	0.105	0.000
55	41	0.104	0.104	0.000
100	42	0.104	0.104	0.000
100	43	0.104	0.104	0.000
100	44	0.104	0.104	0.000
100	45	0.104	0.104	0.000
100	46	0.105	0.104	-0.001
105	47	0.105	0.104	-0.001
105	48	0.104	0.104	0.000
105	49	0.104	0.105	0.001
105	50	0.104	0.104	0.000
105	51	0.104	0.104	0.000
	Max	0.105	0.105	0.001
	Average	0.104	0.104	0.000
	Min	0.103	0.103	-0.002
	Std Dev	0.000	0.000	0.001



	12.9_V_FAULT_HYS_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.108	V
Min Limit	0.092	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
Min	0.104	0.104	0.104	0.104	0.103	0.103	0.104	0.104	0.104	0.104	0.104
Average	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
Max	0.104	0.105	0.104	0.105	0.104	0.105	0.105	0.104	0.105	0.104	0.105
UL	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108

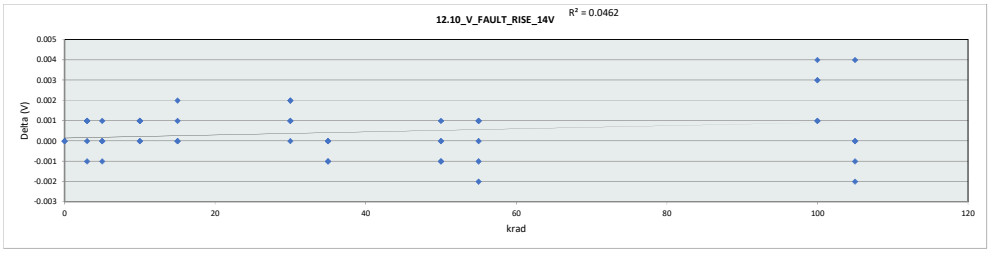


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

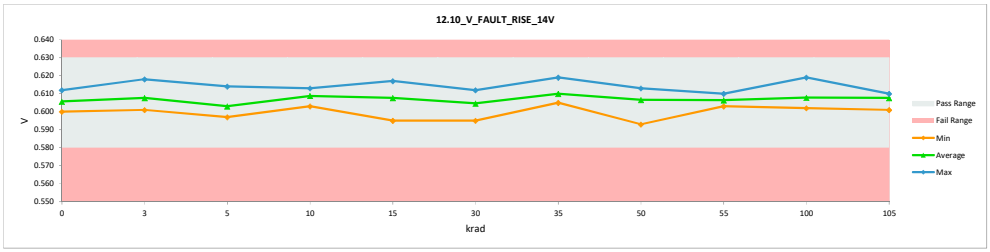
	12.10_V_FAULT_RISE_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.65	0.63
Min Limit	0.57	0.58

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.612	0.612	0.000
0	69	0.600	0.600	0.000
0	70	0.605	0.605	0.000
3	1	0.607	0.608	0.001
3	2	0.618	0.618	0.000
3	3	0.606	0.607	0.001
3	4	0.603	0.604	0.001
3	5	0.602	0.601	-0.001
5	6	0.599	0.599	0.000
5	7	0.607	0.607	0.000
5	8	0.596	0.597	0.001
5	9	0.615	0.614	-0.001
5	10	0.598	0.598	0.000
10	11	0.606	0.606	0.000
10	12	0.609	0.610	0.001
10	13	0.602	0.603	0.001
10	14	0.613	0.613	0.000
10	15	0.611	0.612	0.001
15	16	0.616	0.617	0.001
15	17	0.610	0.610	0.000
15	19	0.595	0.595	0.000
15	20	0.605	0.607	0.002
15	21	0.609	0.609	0.000
30	22	0.607	0.609	0.002
30	23	0.593	0.595	0.002
30	24	0.606	0.606	0.000
30	25	0.611	0.612	0.001
30	26	0.600	0.601	0.001
35	27	0.608	0.608	0.000
35	28	0.605	0.605	0.000
35	29	0.619	0.619	0.000
35	30	0.611	0.610	-0.001
35	31	0.609	0.608	-0.001
50	32	0.593	0.593	0.000
50	33	0.612	0.613	0.001
50	34	0.610	0.609	-0.001
50	35	0.606	0.605	-0.001
50	36	0.613	0.613	0.000
55	37	0.608	0.608	0.000
55	38	0.606	0.604	-0.002
55	39	0.602	0.603	0.001
55	40	0.611	0.610	-0.001
55	41	0.606	0.607	0.001
100	42	0.609	0.610	0.001
100	43	0.616	0.619	0.003
100	44	0.600	0.603	0.003
100	45	0.604	0.605	0.001
100	46	0.598	0.602	0.004
105	47	0.606	0.610	0.004
105	48	0.610	0.610	0.000
105	49	0.610	0.610	0.000
105	50	0.602	0.601	-0.001
105	51	0.609	0.607	-0.002
Max		0.619	0.619	0.004
Average		0.606	0.607	0.000
Min		0.593	0.593	-0.002
Std Dev		0.006	0.006	0.001



	12.10_V_FAULT_RISE_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.58	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Min	0.600	0.601	0.597	0.603	0.595	0.595	0.605	0.593	0.603	0.602	0.601
Average	0.606	0.608	0.603	0.609	0.608	0.605	0.610	0.607	0.606	0.608	0.608
Max	0.612	0.618	0.614	0.613	0.617	0.612	0.619	0.613	0.610	0.619	0.610
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

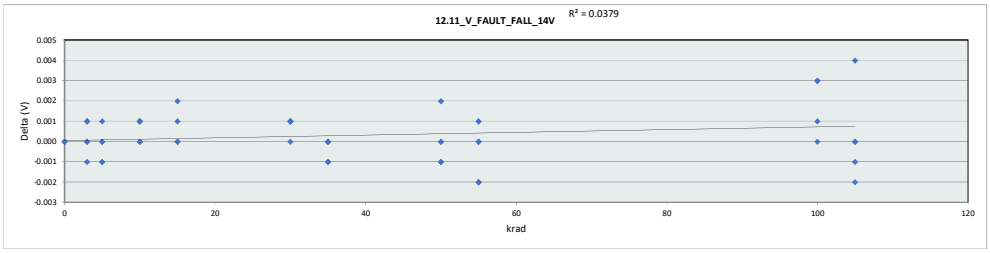


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

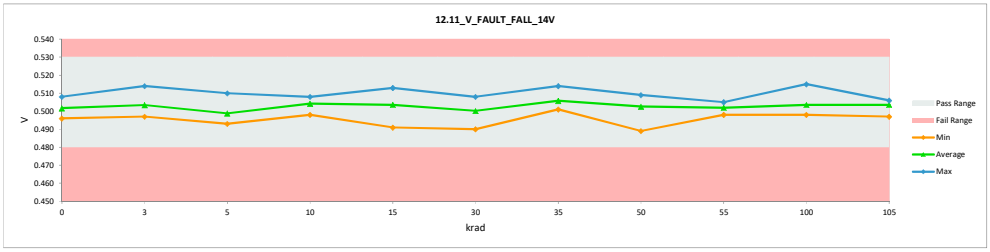
	12.11_V_FAULT_FALL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.55	0.53
Min Limit	0.47	0.48

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.508	0.508	0.000
0	69	0.496	0.496	0.000
0	70	0.501	0.501	0.000
3	1	0.503	0.503	0.000
3	2	0.514	0.514	0.000
3	3	0.502	0.503	0.001
3	4	0.499	0.500	0.001
3	5	0.498	0.497	-0.001
5	6	0.495	0.495	0.000
5	7	0.504	0.503	-0.001
5	8	0.492	0.493	0.001
5	9	0.511	0.510	-0.001
5	10	0.493	0.493	0.000
10	11	0.501	0.502	0.001
10	12	0.505	0.506	0.001
10	13	0.498	0.498	0.000
10	14	0.508	0.508	0.000
10	15	0.506	0.507	0.001
15	16	0.512	0.513	0.001
15	17	0.506	0.506	0.000
15	19	0.491	0.491	0.000
15	20	0.501	0.503	0.002
15	21	0.505	0.505	0.000
30	22	0.503	0.504	0.001
30	23	0.489	0.490	0.001
30	24	0.502	0.502	0.000
30	25	0.507	0.508	0.001
30	26	0.496	0.497	0.001
35	27	0.504	0.504	0.000
35	28	0.501	0.501	0.000
35	29	0.515	0.514	-0.001
35	30	0.507	0.506	-0.001
35	31	0.504	0.504	0.000
50	32	0.489	0.489	0.000
50	33	0.507	0.509	0.002
50	34	0.506	0.505	-0.001
50	35	0.502	0.501	-0.001
50	36	0.509	0.509	0.000
55	37	0.504	0.504	0.000
55	38	0.502	0.500	-0.002
55	39	0.498	0.498	0.000
55	40	0.507	0.505	-0.002
55	41	0.502	0.503	0.001
100	42	0.505	0.505	0.000
100	43	0.512	0.515	0.003
100	44	0.496	0.499	0.003
100	45	0.500	0.501	0.001
100	46	0.495	0.498	0.003
105	47	0.502	0.506	0.004
105	48	0.506	0.506	0.000
105	49	0.506	0.506	0.000
105	50	0.498	0.497	-0.001
105	51	0.505	0.503	-0.002
Max		0.515	0.515	0.004
Average		0.502	0.503	0.000
Min		0.489	0.489	-0.002
Std Dev		0.006	0.006	0.001



	12.11_V_FAULT_FALL_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.496	0.497	0.493	0.498	0.491	0.490	0.501	0.489	0.498	0.498	0.497
Average	0.502	0.503	0.499	0.504	0.504	0.500	0.506	0.503	0.502	0.504	0.504
Max	0.508	0.514	0.510	0.508	0.513	0.508	0.514	0.509	0.505	0.515	0.506
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

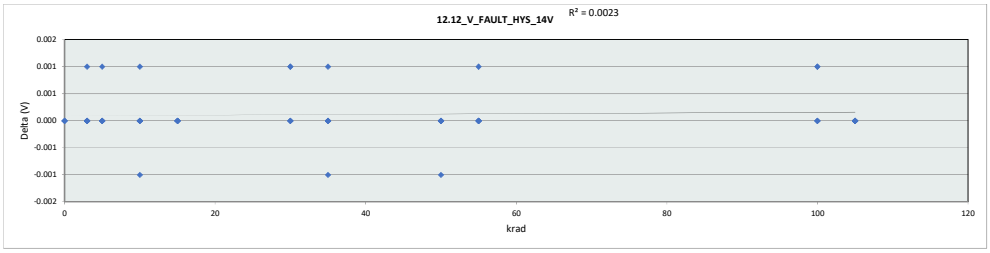


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

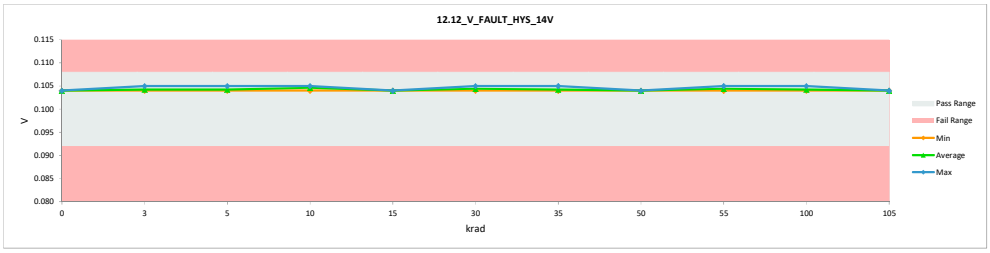
	12.12_V_FAULT_HYS_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.11	0.108
Min Limit	0.09	0.092

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.104	0.104	0.000
0	69	0.104	0.104	0.000
0	70	0.104	0.104	0.000
3	1	0.104	0.105	0.001
3	2	0.104	0.104	0.000
3	3	0.104	0.104	0.000
3	4	0.104	0.104	0.000
3	5	0.104	0.104	0.000
5	6	0.104	0.104	0.000
5	7	0.103	0.104	0.001
5	8	0.104	0.104	0.000
5	9	0.104	0.104	0.000
5	10	0.105	0.105	0.000
10	11	0.105	0.104	-0.001
10	12	0.104	0.104	0.000
10	13	0.104	0.105	0.001
10	14	0.105	0.105	0.000
10	15	0.105	0.105	0.000
15	16	0.104	0.104	0.000
15	17	0.104	0.104	0.000
15	19	0.104	0.104	0.000
15	20	0.104	0.104	0.000
15	21	0.104	0.104	0.000
30	22	0.104	0.105	0.001
30	23	0.104	0.105	0.001
30	24	0.104	0.104	0.000
30	25	0.104	0.104	0.000
30	26	0.104	0.104	0.000
35	27	0.104	0.104	0.000
35	28	0.104	0.104	0.000
35	29	0.104	0.105	0.001
35	30	0.104	0.104	0.000
35	31	0.105	0.104	-0.001
50	32	0.104	0.104	0.000
50	33	0.105	0.104	-0.001
50	34	0.104	0.104	0.000
50	35	0.104	0.104	0.000
50	36	0.104	0.104	0.000
55	37	0.104	0.104	0.000
55	38	0.104	0.104	0.000
55	39	0.104	0.105	0.001
55	40	0.105	0.105	0.000
55	41	0.104	0.104	0.000
100	42	0.104	0.105	0.001
100	43	0.104	0.104	0.000
100	44	0.104	0.104	0.000
100	45	0.104	0.104	0.000
100	46	0.103	0.104	0.001
105	47	0.104	0.104	0.000
105	48	0.104	0.104	0.000
105	49	0.104	0.104	0.000
105	50	0.104	0.104	0.000
105	51	0.104	0.104	0.000
Max		0.105	0.105	0.001
Average		0.104	0.104	0.000
Min		0.103	0.104	-0.001
Std Dev		0.000	0.000	0.000



	12.12_V_FAULT_HYS_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.108	V
Min Limit	0.092	V

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
Min	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
Average	0.104	0.104	0.104	0.105	0.104	0.104	0.104	0.104	0.104	0.104	0.104
Max	0.104	0.105	0.105	0.105	0.104	0.105	0.105	0.104	0.105	0.105	0.104
UL	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108

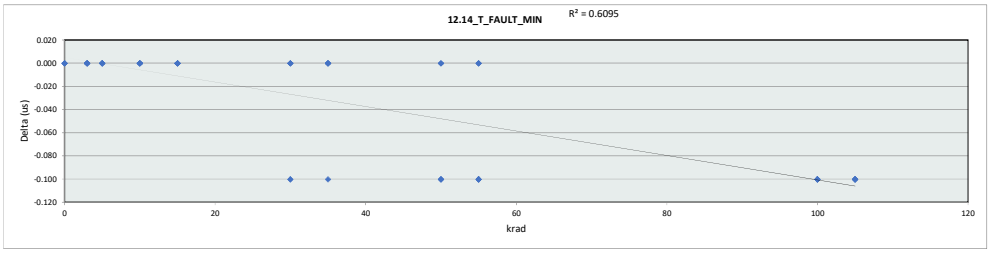


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

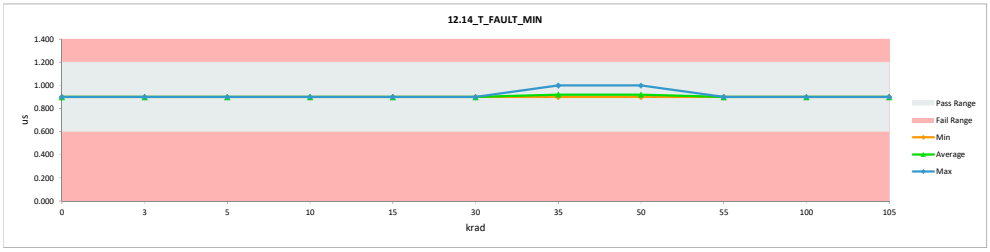
	12.14_T_FAULT_MIN	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	1.4	1.2
Min Limit	0.4	0.6

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	0.900	0.900	0.000
0	69	0.900	0.900	0.000
0	70	0.900	0.900	0.000
3	1	0.900	0.900	0.000
3	2	0.900	0.900	0.000
3	3	0.900	0.900	0.000
3	4	0.900	0.900	0.000
3	5	0.900	0.900	0.000
5	6	0.900	0.900	0.000
5	7	0.900	0.900	0.000
5	8	0.900	0.900	0.000
5	9	0.900	0.900	0.000
5	10	0.900	0.900	0.000
10	11	0.900	0.900	0.000
10	12	0.900	0.900	0.000
10	13	0.900	0.900	0.000
10	14	0.900	0.900	0.000
10	15	0.900	0.900	0.000
15	16	0.900	0.900	0.000
15	17	0.900	0.900	0.000
15	19	0.900	0.900	0.000
15	20	0.900	0.900	0.000
15	21	0.900	0.900	0.000
30	22	0.900	0.900	0.000
30	23	0.900	0.900	0.000
30	24	0.900	0.900	0.000
30	25	1.000	0.900	-0.100
30	26	1.000	0.900	-0.100
35	27	0.900	0.900	0.000
35	28	1.000	0.900	-0.100
35	29	1.000	1.000	0.000
35	30	0.900	0.900	0.000
35	31	0.900	0.900	0.000
50	32	0.900	0.900	0.000
50	33	1.000	1.000	0.000
50	34	1.000	0.900	-0.100
50	35	1.000	0.900	-0.100
50	36	1.000	0.900	-0.100
55	37	0.900	0.900	0.000
55	38	1.000	0.900	-0.100
55	39	1.000	0.900	-0.100
55	40	1.000	0.900	-0.100
55	41	0.900	0.900	0.000
100	42	1.000	0.900	-0.100
100	43	1.000	0.900	-0.100
100	44	1.000	0.900	-0.100
100	45	1.000	0.900	-0.100
100	46	1.000	0.900	-0.100
105	47	1.000	0.900	-0.100
105	48	1.000	0.900	-0.100
105	49	1.000	0.900	-0.100
105	50	1.000	0.900	-0.100
105	51	1.000	0.900	-0.100
Max		1.000	1.000	0.000
Average		0.940	0.904	-0.036
Min		0.900	0.900	-0.100
Std Dev		0.049	0.019	0.048



	12.14_T_FAULT_MIN	
Test Site		
Tester		
Test Number		
Max Limit	1.2	us
Min Limit	0.6	us

krad	0	3	5	10	15	30	35	50	55	100	105
LL	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600
Min	0.900	0.900	0.900	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	0.920	0.920	0.900	0.900	0.900
Max	0.900	0.900	0.900	0.900	0.900	0.900	1.000	1.000	0.900	0.900	0.900
UL	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200

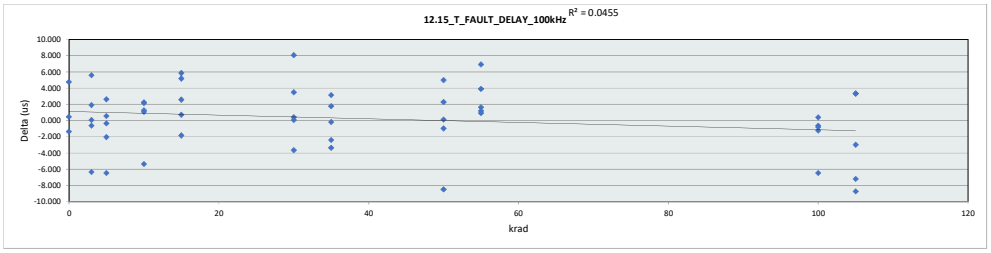


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

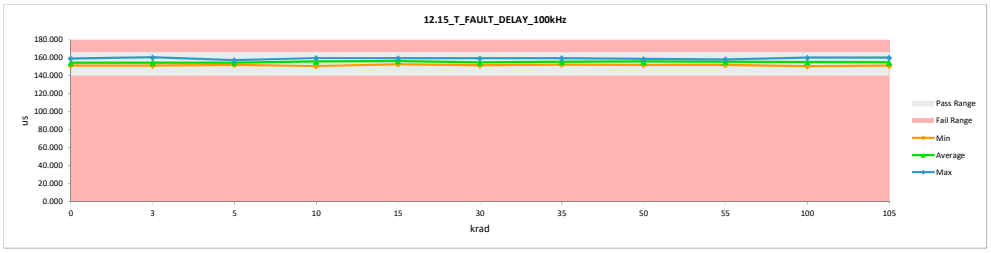
	12.15_T_FAULT_DELAY_100kH	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	169	166
Min Limit	140	140

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	152.530	153.030	0.500
0	69	154.279	159.084	4.805
0	70	152.562	151.248	-1.314
3	1	154.685	160.317	5.632
3	2	151.527	153.474	1.947
3	3	154.912	154.332	-0.580
3	4	150.994	151.097	0.103
3	5	159.565	153.252	-6.313
5	6	159.383	157.393	-1.990
5	7	158.621	152.195	-6.426
5	8	152.244	151.939	-0.305
5	9	154.697	155.294	0.597
5	10	151.962	154.634	2.672
10	11	156.393	158.592	2.199
10	12	155.742	158.033	2.291
10	13	151.737	152.842	1.105
10	14	155.962	150.645	-5.317
10	15	158.193	159.497	1.304
15	16	152.583	157.801	5.218
15	17	156.793	159.415	2.622
15	19	151.891	152.645	0.754
15	20	151.806	157.707	5.901
15	21	154.544	152.750	-1.794
30	22	154.563	158.092	3.529
30	23	151.051	151.500	0.449
30	24	155.577	151.966	-3.611
30	25	152.481	152.583	0.102
30	26	151.130	159.236	8.106
35	27	159.551	159.408	-0.143
35	28	151.637	153.442	1.805
35	29	154.852	152.482	-2.370
35	30	152.540	155.726	3.186
35	31	159.279	155.954	-3.325
50	32	151.549	156.574	5.025
50	33	160.406	151.963	-8.443
50	34	155.931	156.082	0.151
50	35	156.230	158.552	2.322
50	36	156.346	155.413	-0.933
55	37	150.639	151.867	1.228
55	38	150.825	157.770	6.945
55	39	151.632	152.582	0.950
55	40	155.818	157.501	1.683
55	41	154.216	158.164	3.948
100	42	159.387	152.961	-6.426
100	43	159.555	159.985	0.430
100	44	160.462	159.260	-1.202
100	45	153.702	152.939	-0.763
100	46	151.104	150.522	-0.582
105	47	159.752	152.600	-7.152
105	48	156.625	159.987	3.362
105	49	157.847	154.905	-2.942
105	50	159.876	151.193	-8.683
105	51	151.730	155.095	3.365
Max		160.462	160.317	8.106
Average		154.904	155.161	0.257
Min		150.639	150.522	-8.683
Std Dev		3.121	3.049	3.821



	12.15_T_FAULT_DELAY_100kH	
Test Site		
Tester		
Test Number		
Max Limit	166	us
Min Limit	140	us

krad	0	3	5	10	15	30	35	50	55	100	105
LL	140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000
Min	151.248	151.097	151.939	150.645	152.645	151.500	152.482	151.963	151.867	150.522	151.193
Average	154.454	154.494	154.291	155.922	156.064	154.675	155.402	155.717	155.577	155.133	154.756
Max	159.084	160.317	157.393	159.497	159.415	159.236	159.408	158.552	158.164	159.985	159.987
UL	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000

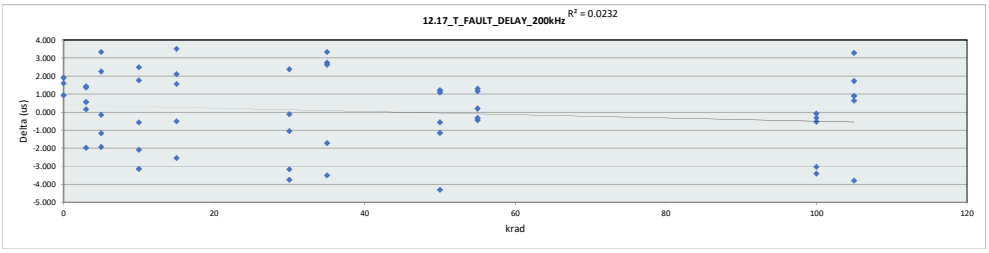


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

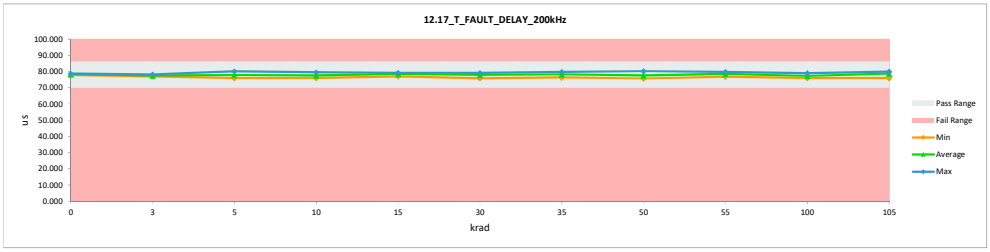
	12.17_T_FAULT_DELAY_200kH	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	86	86
Min Limit	66	70

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	77.147	78.761	1.614
0	69	77.023	77.967	0.944
0	70	76.290	78.206	1.916
3	1	77.068	77.638	0.570
3	2	75.593	77.035	1.442
3	3	77.774	77.939	0.165
3	4	78.984	77.018	-1.966
3	5	76.918	78.297	1.379
5	6	79.403	78.241	-1.162
5	7	76.784	79.051	2.267
5	8	76.269	76.131	-0.138
5	9	77.923	76.002	-1.921
5	10	76.855	80.201	3.346
10	11	79.326	78.766	-0.560
10	12	79.171	76.035	-3.136
10	13	78.064	75.987	-2.077
10	14	77.827	79.597	1.770
10	15	75.625	78.124	2.499
15	16	77.605	79.171	1.566
15	17	75.685	79.202	3.517
15	19	79.777	79.282	-0.495
15	20	79.532	76.994	-2.538
15	21	76.008	78.120	2.112
30	22	79.595	75.855	-3.740
30	23	79.335	79.233	-0.102
30	24	79.670	76.512	-3.158
30	25	80.104	79.058	-1.046
30	26	76.621	79.014	2.393
35	27	79.754	78.050	-1.704
35	28	75.536	78.174	2.638
35	29	76.454	79.800	3.346
35	30	79.889	76.396	-3.493
35	31	76.426	79.178	2.752
50	32	80.039	75.743	-4.296
50	33	79.415	78.857	-0.558
50	34	75.839	77.067	1.228
50	35	77.652	76.509	-1.143
50	36	79.177	80.277	1.100
55	37	80.120	79.802	-0.318
55	38	75.627	76.796	1.169
55	39	80.272	79.839	-0.433
55	40	78.216	78.423	0.207
55	41	77.005	78.315	1.310
100	42	79.143	79.078	-0.065
100	43	78.440	78.129	-0.311
100	44	76.912	76.396	-0.516
100	45	79.391	75.991	-3.400
100	46	80.010	76.977	-3.033
105	47	78.422	79.070	0.648
105	48	79.793	76.003	-3.790
105	49	78.777	79.686	0.909
105	50	78.284	80.017	1.733
105	51	75.651	78.948	3.297
	Max	80.272	80.277	3.517
	Average	78.004	78.056	0.052
	Min	75.536	75.743	-4.296
	Std Dev	1.538	1.349	2.125



	12.17_T_FAULT_DELAY_200kH	
Test Site		
Tester		
Test Number		
Max Limit	86	us
Min Limit	70	us

krad	0	3	5	10	15	30	35	50	55	100	105
LL	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000
Min	77.967	77.018	76.002	75.987	76.994	75.855	76.396	75.743	76.796	75.991	76.003
Average	78.311	77.585	77.925	77.702	78.554	77.934	78.320	77.691	78.635	77.314	78.745
Max	78.761	78.297	80.201	79.597	79.282	79.233	79.800	80.277	79.839	79.078	80.017
UL	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000

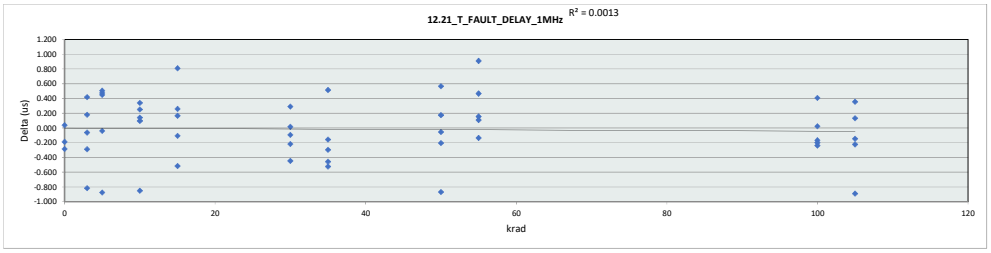


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

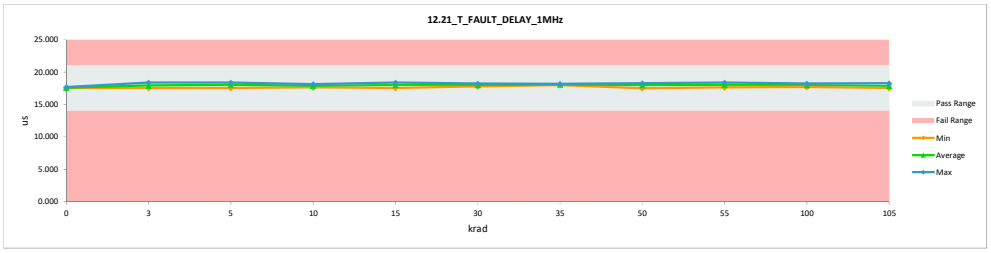
	12.21_T_FAULT_DELAY_1MHz	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	21	21
Min Limit	14	14

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	17.711	17.526	-0.185
0	69	17.593	17.634	0.041
0	70	17.962	17.682	-0.280
3	1	17.870	17.585	-0.285
3	2	18.459	18.401	-0.058
3	3	18.334	17.521	-0.813
3	4	17.978	18.162	0.184
3	5	17.623	18.044	0.421
5	6	17.763	17.727	-0.036
5	7	17.822	18.300	0.478
5	8	17.880	18.389	0.509
5	9	17.805	18.257	0.452
5	10	18.388	17.517	-0.871
10	11	17.733	17.988	0.255
10	12	17.679	17.778	0.099
10	13	17.894	18.038	0.144
10	14	17.790	18.133	0.343
10	15	18.474	17.627	-0.847
15	16	18.155	18.325	0.170
15	17	17.728	17.625	-0.103
15	19	17.576	18.389	0.813
15	20	18.054	17.542	-0.512
15	21	17.912	18.173	0.261
30	22	17.501	17.794	0.293
30	23	18.442	18.228	-0.214
30	24	18.154	18.063	-0.091
30	25	18.487	18.045	-0.442
30	26	17.890	17.910	0.020
35	27	18.468	18.176	-0.292
35	28	17.513	18.031	0.518
35	29	18.494	17.974	-0.520
35	30	18.344	18.192	-0.152
35	31	18.424	17.970	-0.454
50	32	17.943	18.121	0.178
50	33	17.511	18.080	0.569
50	34	18.030	17.830	-0.200
50	35	18.355	18.304	-0.051
50	36	18.372	17.507	-0.865
55	37	18.218	18.331	0.113
55	38	17.664	18.133	0.469
55	39	17.645	17.804	0.159
55	40	17.485	18.397	0.912
55	41	17.771	17.640	-0.131
100	42	17.845	17.681	-0.164
100	43	17.890	17.917	0.027
100	44	18.265	18.069	-0.196
100	45	17.827	18.238	0.411
100	46	18.400	18.166	-0.234
105	47	18.427	17.542	-0.885
105	48	18.048	17.829	-0.219
105	49	17.808	17.666	-0.142
105	50	17.923	18.283	0.360
105	51	17.862	17.997	0.135
Max		18.494	18.401	0.912
Average		17.985	17.968	-0.017
Min		17.485	17.507	-0.885
Std Dev		0.314	0.281	0.421



	12.21_T_FAULT_DELAY_1MHz	
Test Site		
Tester		
Test Number		
Max Limit	21	us
Min Limit	14	us

krad	0	3	5	10	15	30	35	50	55	100	105
LL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000
Min	17.526	17.521	17.517	17.627	17.542	17.794	17.970	17.507	17.640	17.681	17.542
Average	17.614	17.943	18.038	17.913	18.011	18.008	18.069	17.968	18.061	18.014	17.863
Max	17.682	18.401	18.389	18.133	18.389	18.228	18.192	18.304	18.397	18.238	18.283
UL	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000

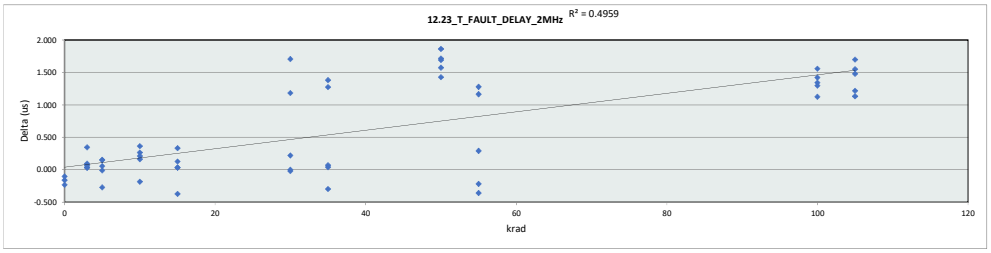


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

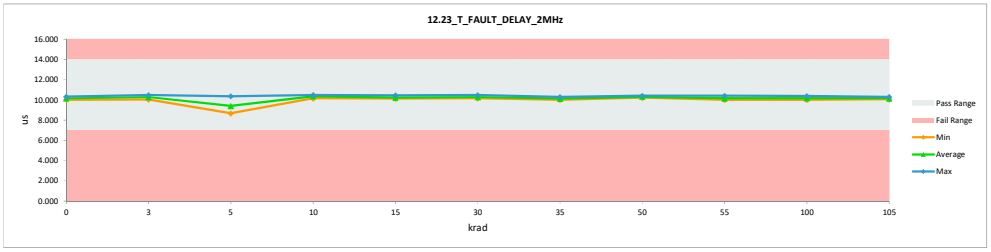
	12.23_T_FAULT_DELAY_2MHz	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	14	14
Min Limit	7	7

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	10.472	10.315	-0.157
0	69	10.201	10.101	-0.100
0	70	10.241	10.011	-0.230
3	1	10.362	10.460	0.098
3	2	10.245	10.287	0.042
3	3	10.100	10.448	0.348
3	4	9.998	10.032	0.034
3	5	10.080	10.152	0.072
5	6	10.165	10.224	0.059
5	7	10.207	10.363	0.156
5	8	8.710	8.862	0.152
5	9	8.933	8.926	-0.007
5	10	8.933	8.666	-0.267
10	11	10.212	10.480	0.268
10	12	10.170	10.336	0.166
10	13	10.115	10.481	0.366
10	14	10.132	10.348	0.216
10	15	10.331	10.149	-0.182
15	16	10.111	10.448	0.337
15	17	10.074	10.110	0.036
15	19	10.290	10.328	0.038
15	20	10.480	10.112	-0.368
15	21	9.997	10.128	0.131
30	22	10.147	10.149	0.002
30	23	8.956	10.142	1.186
30	24	10.167	10.150	-0.017
30	25	10.254	10.478	0.224
30	26	8.755	10.464	1.709
35	27	10.300	10.005	-0.295
35	28	10.141	10.214	0.073
35	29	8.894	10.278	1.384
35	30	10.044	10.087	0.043
35	31	8.754	10.031	1.277
50	32	8.680	10.256	1.576
50	33	8.535	10.399	1.864
50	34	8.489	10.206	1.717
50	35	8.803	10.232	1.429
50	36	8.724	10.416	1.692
55	37	8.951	10.119	1.168
55	38	8.871	10.152	1.281
55	39	10.105	10.398	0.293
55	40	10.443	10.088	-0.355
55	41	10.222	10.006	-0.216
100	42	8.812	10.371	1.559
100	43	8.938	10.236	1.298
100	44	8.658	10.002	1.344
100	45	8.870	9.997	1.127
100	46	8.808	10.232	1.424
105	47	8.518	10.218	1.700
105	48	8.876	10.096	1.220
105	49	8.574	10.128	1.554
105	50	8.805	10.286	1.481
105	51	8.917	10.051	1.134
Max		10.480	10.481	1.864
Average		9.558	10.144	0.586
Min		8.489	8.666	-0.368
Std Dev		0.725	0.360	0.724



	12.23_T_FAULT_DELAY_2MHz	
Test Site		
Tester		
Test Number		
Max Limit	14	us
Min Limit	7	us

krad	0	3	5	10	15	30	35	50	55	100	105
LL	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000
Min	10.011	10.032	8.666	10.149	10.110	10.142	10.005	10.206	10.006	9.997	10.051
Average	10.142	10.276	9.408	10.359	10.225	10.277	10.123	10.302	10.153	10.168	10.156
Max	10.315	10.460	10.363	10.481	10.448	10.478	10.278	10.416	10.398	10.371	10.286
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

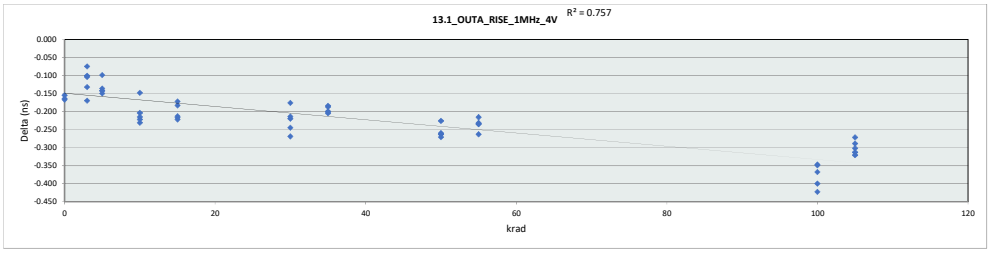


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

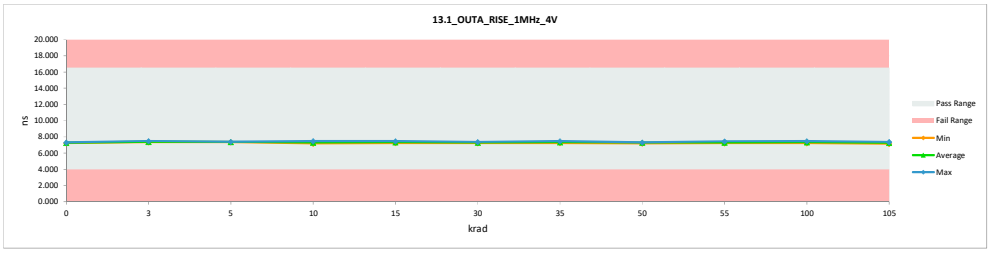
	13.1_OUTA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.395	7.232	-0.163
0	69	7.467	7.301	-0.166
0	70	7.477	7.323	-0.154
3	1	7.465	7.365	-0.100
3	2	7.457	7.383	-0.074
3	3	7.604	7.501	-0.103
3	4	7.583	7.452	-0.131
3	5	7.552	7.383	-0.169
5	6	7.494	7.359	-0.135
5	7	7.520	7.371	-0.149
5	8	7.512	7.371	-0.141
5	9	7.557	7.415	-0.142
5	10	7.463	7.365	-0.098
10	11	7.685	7.482	-0.203
10	12	7.437	7.207	-0.230
10	13	7.404	7.190	-0.214
10	14	7.569	7.348	-0.221
10	15	7.504	7.357	-0.147
15	16	7.571	7.400	-0.171
15	17	7.586	7.370	-0.216
15	19	7.461	7.249	-0.212
15	20	7.664	7.482	-0.182
15	21	7.582	7.361	-0.221
30	22	7.509	7.241	-0.268
30	23	7.494	7.275	-0.219
30	24	7.635	7.391	-0.244
30	25	7.513	7.300	-0.213
30	26	7.448	7.273	-0.175
35	27	7.599	7.400	-0.199
35	28	7.487	7.304	-0.183
35	29	7.437	7.251	-0.186
35	30	7.674	7.474	-0.200
35	31	7.505	7.301	-0.204
50	32	7.611	7.341	-0.270
50	33	7.594	7.332	-0.262
50	34	7.562	7.303	-0.259
50	35	7.435	7.210	-0.225
50	36	7.587	7.325	-0.262
55	37	7.454	7.220	-0.234
55	38	7.605	7.374	-0.231
55	39	7.606	7.344	-0.262
55	40	7.502	7.269	-0.233
55	41	7.683	7.468	-0.215
100	42	7.820	7.453	-0.367
100	43	7.665	7.243	-0.422
100	44	7.668	7.320	-0.348
100	45	7.877	7.478	-0.399
100	46	7.707	7.361	-0.346
105	47	7.476	7.156	-0.320
105	48	7.646	7.358	-0.288
105	49	7.703	7.391	-0.312
105	50	7.520	7.219	-0.301
105	51	7.610	7.339	-0.271
Max		7.877	7.501	-0.074
Average		7.559	7.339	-0.220
Min		7.395	7.156	-0.422
Std Dev		0.101	0.084	0.076



	13.1_OUTA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.232	7.365	7.359	7.190	7.249	7.241	7.251	7.210	7.220	7.243	7.156
Average	7.285	7.417	7.376	7.317	7.372	7.296	7.346	7.302	7.335	7.371	7.293
Max	7.323	7.501	7.415	7.482	7.482	7.391	7.474	7.341	7.468	7.478	7.391
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

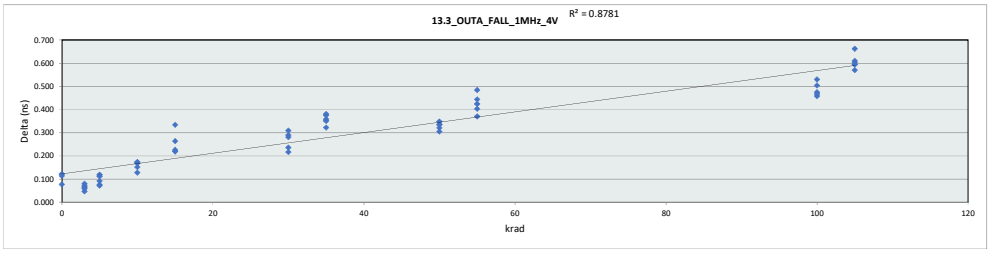


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

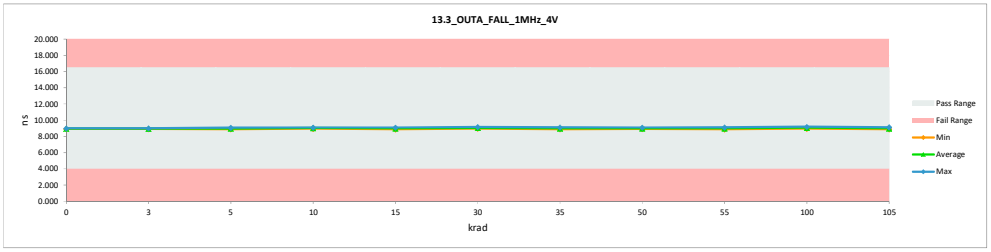
	13.3_OUTA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	8.835	8.913	0.078
0	69	8.824	8.947	0.123
0	70	8.884	8.999	0.115
3	1	8.878	8.926	0.048
3	2	8.837	8.909	0.072
3	3	8.926	8.986	0.060
3	4	8.893	8.959	0.066
3	5	8.932	9.013	0.081
5	6	8.828	8.905	0.077
5	7	8.968	9.061	0.093
5	8	8.832	8.952	0.120
5	9	8.958	9.071	0.113
5	10	8.845	8.918	0.073
10	11	8.923	9.097	0.174
10	12	8.818	8.947	0.129
10	13	8.949	9.102	0.153
10	14	8.920	9.090	0.170
10	15	8.830	9.004	0.174
15	16	8.755	9.020	0.265
15	17	8.659	8.879	0.220
15	19	8.718	8.939	0.221
15	20	8.775	9.110	0.335
15	21	8.864	9.091	0.227
30	22	8.792	9.074	0.282
30	23	8.742	8.979	0.237
30	24	8.888	9.179	0.291
30	25	8.754	9.064	0.310
30	26	8.753	8.971	0.218
35	27	8.770	9.130	0.360
35	28	8.621	8.944	0.323
35	29	8.554	8.931	0.377
35	30	8.698	9.080	0.382
35	31	8.553	8.905	0.352
50	32	8.679	9.015	0.336
50	33	8.761	9.110	0.349
50	34	8.642	8.948	0.306
50	35	8.602	8.938	0.336
50	36	8.726	9.048	0.322
55	37	8.513	8.884	0.371
55	38	8.576	9.001	0.425
55	39	8.630	9.075	0.445
55	40	8.601	9.005	0.404
55	41	8.646	9.131	0.485
100	42	8.663	9.194	0.531
100	43	8.503	8.962	0.459
100	44	8.535	9.011	0.476
100	45	8.618	9.086	0.468
100	46	8.564	9.069	0.505
105	47	8.311	8.922	0.611
105	48	8.480	9.075	0.595
105	49	8.485	9.148	0.663
105	50	8.353	8.957	0.604
105	51	8.330	8.901	0.571
Max		8.968	9.194	0.663
Average		8.717	9.011	0.294
Min		8.311	8.879	0.048
Std Dev		0.167	0.082	0.170



	13.3_OUTA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	8.913	8.909	8.905	8.947	8.879	8.971	8.905	8.938	8.884	8.962	8.901
Average	8.953	8.959	8.981	9.048	9.008	9.053	8.998	9.012	9.019	9.064	9.001
Max	8.999	9.013	9.071	9.102	9.110	9.179	9.130	9.110	9.131	9.194	9.148
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

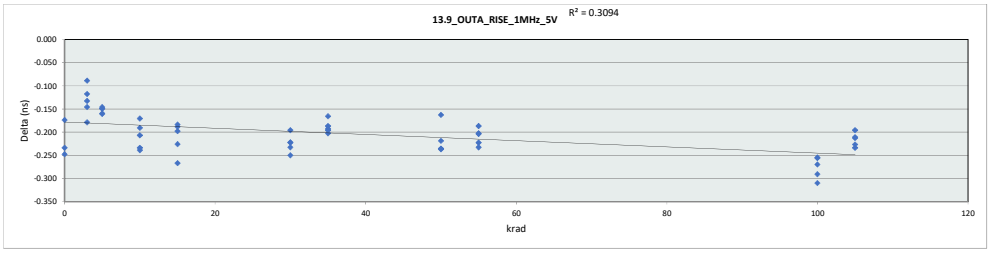


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

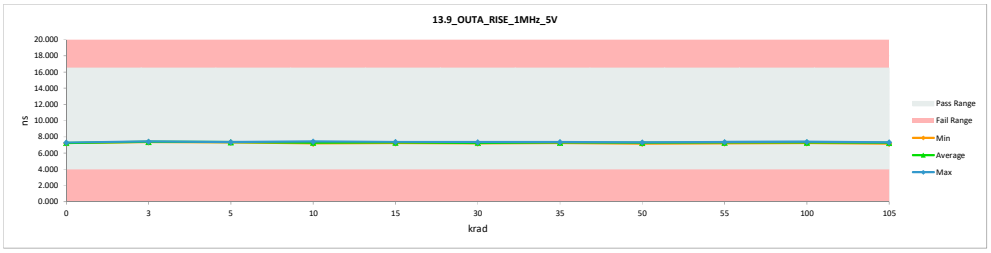
	13.9_OUTA_RISE_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.449	7.216	-0.233
0	69	7.473	7.300	-0.173
0	70	7.498	7.251	-0.247
3	1	7.478	7.346	-0.132
3	2	7.476	7.388	-0.088
3	3	7.548	7.431	-0.117
3	4	7.551	7.406	-0.145
3	5	7.539	7.361	-0.178
5	6	7.483	7.338	-0.145
5	7	7.501	7.353	-0.148
5	8	7.508	7.348	-0.160
5	9	7.524	7.375	-0.149
5	10	7.481	7.322	-0.159
10	11	7.601	7.431	-0.170
10	12	7.435	7.197	-0.238
10	13	7.415	7.209	-0.206
10	14	7.548	7.315	-0.233
10	15	7.488	7.298	-0.190
15	16	7.534	7.337	-0.197
15	17	7.577	7.311	-0.266
15	19	7.445	7.220	-0.225
15	20	7.569	7.386	-0.183
15	21	7.549	7.361	-0.188
30	22	7.458	7.226	-0.232
30	23	7.458	7.209	-0.249
30	24	7.570	7.348	-0.222
30	25	7.477	7.282	-0.195
30	26	7.433	7.212	-0.221
35	27	7.538	7.346	-0.192
35	28	7.466	7.271	-0.195
35	29	7.417	7.252	-0.165
35	30	7.559	7.373	-0.186
35	31	7.511	7.309	-0.202
50	32	7.516	7.281	-0.235
50	33	7.498	7.336	-0.162
50	34	7.501	7.283	-0.218
50	35	7.404	7.169	-0.235
50	36	7.513	7.277	-0.236
55	37	7.416	7.214	-0.202
55	38	7.544	7.358	-0.186
55	39	7.539	7.336	-0.203
55	40	7.494	7.262	-0.232
55	41	7.594	7.372	-0.222
100	42	7.638	7.384	-0.254
100	43	7.538	7.229	-0.309
100	44	7.535	7.280	-0.255
100	45	7.668	7.399	-0.269
100	46	7.563	7.273	-0.290
105	47	7.403	7.170	-0.233
105	48	7.538	7.326	-0.212
105	49	7.568	7.342	-0.226
105	50	7.445	7.235	-0.210
105	51	7.486	7.291	-0.195
Max		7.668	7.431	-0.088
Average		7.509	7.305	-0.204
Min		7.403	7.169	-0.309
Std Dev		0.058	0.068	0.043



	13.9_OUTA_RISE_1MHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.216	7.346	7.322	7.197	7.220	7.209	7.252	7.169	7.214	7.229	7.170
Average	7.256	7.386	7.347	7.290	7.323	7.255	7.310	7.269	7.308	7.313	7.273
Max	7.300	7.431	7.375	7.431	7.386	7.348	7.373	7.336	7.372	7.399	7.342
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

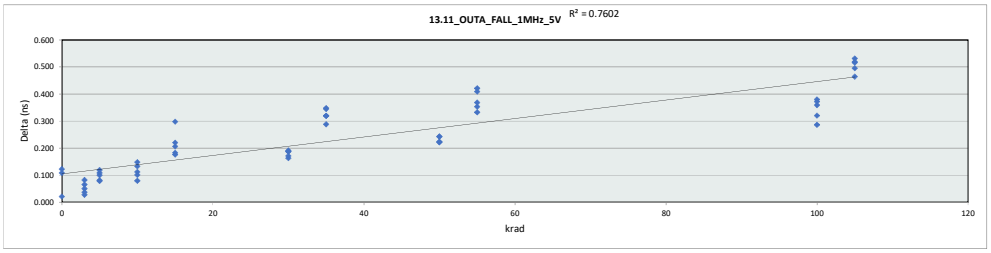


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

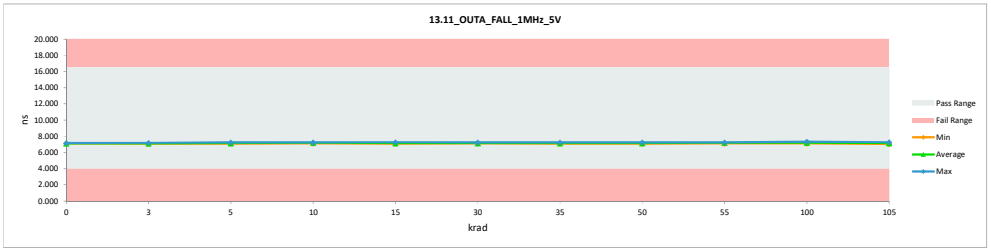
	13.11_OUTA_FALL_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.012	7.135	0.123
0	69	7.047	7.156	0.109
0	70	7.097	7.119	0.022
3	1	7.067	7.095	0.028
3	2	7.042	7.080	0.038
3	3	7.132	7.183	0.051
3	4	7.097	7.163	0.066
3	5	7.095	7.178	0.083
5	6	7.019	7.098	0.079
5	7	7.109	7.218	0.109
5	8	7.056	7.138	0.082
5	9	7.113	7.233	0.120
5	10	7.014	7.115	0.101
10	11	7.085	7.219	0.134
10	12	7.029	7.131	0.102
10	13	7.109	7.189	0.080
10	14	7.129	7.242	0.113
10	15	7.034	7.183	0.149
15	16	6.945	7.152	0.207
15	17	6.891	7.068	0.177
15	19	6.944	7.128	0.184
15	20	6.971	7.270	0.299
15	21	7.019	7.240	0.221
30	22	7.024	7.196	0.172
30	23	6.968	7.132	0.164
30	24	7.044	7.236	0.192
30	25	6.982	7.170	0.188
30	26	6.957	7.145	0.188
35	27	6.931	7.251	0.320
35	28	6.818	7.107	0.289
35	29	6.769	7.089	0.320
35	30	6.878	7.224	0.346
35	31	6.751	7.100	0.349
50	32	6.917	7.160	0.243
50	33	7.007	7.229	0.222
50	34	6.906	7.150	0.244
50	35	6.860	7.084	0.224
50	36	6.969	7.193	0.224
55	37	6.751	7.105	0.354
55	38	6.808	7.177	0.369
55	39	6.813	7.235	0.422
55	40	6.818	7.151	0.333
55	41	6.841	7.251	0.410
100	42	6.954	7.327	0.373
100	43	6.841	7.128	0.287
100	44	6.845	7.166	0.321
100	45	6.868	7.249	0.381
100	46	6.857	7.217	0.360
105	47	6.594	7.059	0.465
105	48	6.740	7.257	0.517
105	49	6.752	7.272	0.520
105	50	6.620	7.116	0.496
105	51	6.589	7.121	0.532
Max		7.132	7.327	0.532
Average		6.934	7.170	0.236
Min		6.589	7.059	0.022
Std Dev		0.139	0.062	0.140



	13.11_OUTA_FALL_1MHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.119	7.080	7.098	7.131	7.068	7.132	7.089	7.084	7.105	7.128	7.059
Average	7.137	7.140	7.160	7.193	7.172	7.176	7.154	7.163	7.184	7.217	7.165
Max	7.156	7.183	7.233	7.242	7.270	7.236	7.251	7.229	7.251	7.327	7.272
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

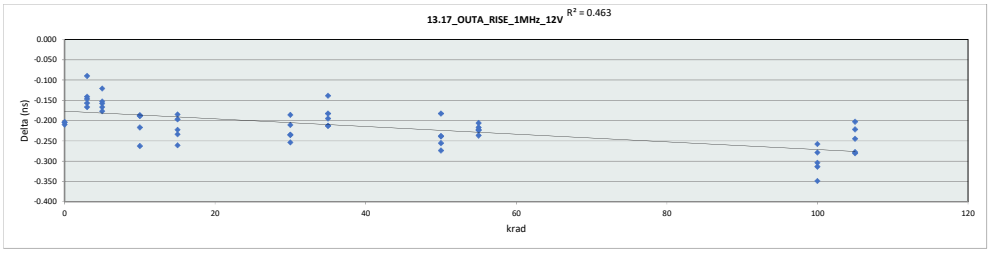


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

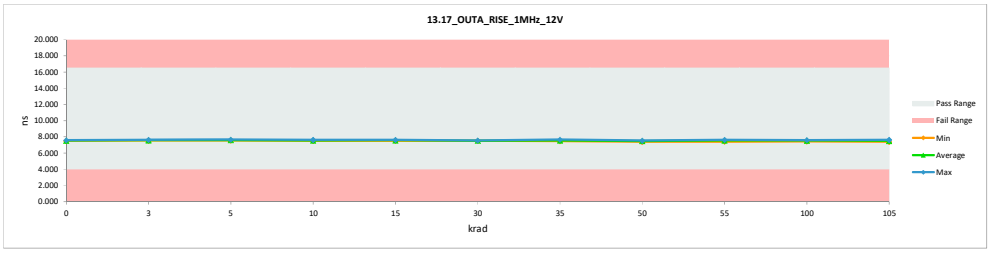
	13.17_OUTA_RISE_1MHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.709	7.506	-0.203
0	69	7.736	7.532	-0.204
0	70	7.809	7.600	-0.209
3	1	7.722	7.566	-0.156
3	2	7.680	7.591	-0.089
3	3	7.789	7.643	-0.146
3	4	7.774	7.634	-0.140
3	5	7.708	7.542	-0.166
5	6	7.846	7.670	-0.176
5	7	7.742	7.576	-0.166
5	8	7.756	7.599	-0.157
5	9	7.777	7.657	-0.120
5	10	7.712	7.560	-0.152
10	11	7.835	7.649	-0.186
10	12	7.809	7.547	-0.262
10	13	7.702	7.514	-0.188
10	14	7.742	7.526	-0.216
10	15	7.777	7.590	-0.187
15	16	7.852	7.630	-0.222
15	17	7.772	7.539	-0.233
15	19	7.715	7.519	-0.196
15	20	7.836	7.652	-0.184
15	21	7.802	7.542	-0.260
30	22	7.719	7.509	-0.210
30	23	7.799	7.564	-0.235
30	24	7.777	7.524	-0.253
30	25	7.736	7.551	-0.185
30	26	7.768	7.534	-0.234
35	27	7.797	7.615	-0.182
35	28	7.749	7.537	-0.212
35	29	7.720	7.526	-0.194
35	30	7.895	7.683	-0.212
35	31	7.617	7.479	-0.138
50	32	7.783	7.545	-0.238
50	33	7.707	7.525	-0.182
50	34	7.714	7.477	-0.237
50	35	7.646	7.391	-0.255
50	36	7.820	7.547	-0.273
55	37	7.639	7.416	-0.223
55	38	7.863	7.647	-0.216
55	39	7.834	7.612	-0.222
55	40	7.771	7.535	-0.236
55	41	7.793	7.588	-0.205
100	42	7.871	7.614	-0.257
100	43	7.797	7.449	-0.348
100	44	7.809	7.531	-0.278
100	45	7.911	7.608	-0.303
100	46	7.853	7.540	-0.313
105	47	7.674	7.394	-0.280
105	48	7.743	7.522	-0.221
105	49	7.769	7.492	-0.277
105	50	7.714	7.470	-0.244
105	51	7.849	7.647	-0.202
Max		7.911	7.683	-0.089
Average		7.769	7.556	-0.213
Min		7.617	7.391	-0.348
Std Dev		0.065	0.068	0.050



	13.17_OUTA_RISE_1MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.506	7.542	7.560	7.514	7.519	7.509	7.479	7.391	7.416	7.449	7.394
Average	7.546	7.595	7.612	7.565	7.576	7.536	7.568	7.497	7.560	7.548	7.505
Max	7.600	7.643	7.670	7.649	7.652	7.564	7.683	7.547	7.647	7.614	7.647
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

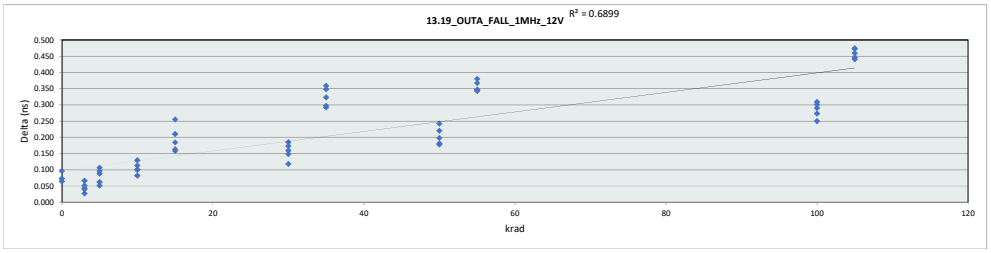


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

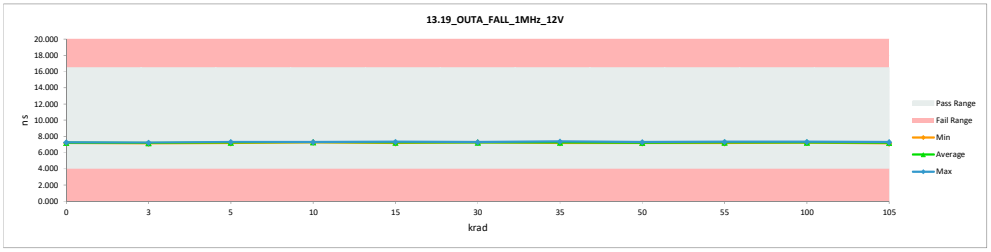
	13.19_OUTA_FALL_1MHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.131	7.205	0.074
0	69	7.134	7.231	0.097
0	70	7.211	7.276	0.065
3	1	7.157	7.198	0.041
3	2	7.095	7.139	0.044
3	3	7.223	7.251	0.028
3	4	7.180	7.232	0.052
3	5	7.154	7.221	0.067
5	6	7.186	7.249	0.063
5	7	7.202	7.254	0.052
5	8	7.138	7.227	0.089
5	9	7.224	7.331	0.107
5	10	7.078	7.175	0.097
10	11	7.179	7.309	0.130
10	12	7.173	7.274	0.101
10	13	7.210	7.293	0.083
10	14	7.202	7.303	0.101
10	15	7.162	7.276	0.114
15	16	7.097	7.308	0.211
15	17	6.985	7.170	0.185
15	19	7.053	7.212	0.159
15	20	7.094	7.350	0.256
15	21	7.098	7.262	0.164
30	22	7.141	7.260	0.119
30	23	7.128	7.277	0.149
30	24	7.135	7.295	0.160
30	25	7.102	7.288	0.186
30	26	7.093	7.267	0.174
35	27	7.030	7.379	0.349
35	28	6.944	7.242	0.298
35	29	6.911	7.204	0.293
35	30	7.031	7.355	0.324
35	31	6.819	7.179	0.360
50	32	7.028	7.227	0.199
50	33	7.071	7.314	0.243
50	34	6.982	7.203	0.221
50	35	6.980	7.162	0.182
50	36	7.109	7.288	0.179
55	37	6.826	7.170	0.344
55	38	6.969	7.317	0.348
55	39	6.975	7.343	0.368
55	40	6.935	7.280	0.345
55	41	6.909	7.290	0.381
100	42	7.043	7.353	0.310
100	43	6.966	7.217	0.251
100	44	6.980	7.254	0.274
100	45	6.987	7.289	0.302
100	46	7.005	7.296	0.291
105	47	6.716	7.157	0.441
105	48	6.824	7.299	0.475
105	49	6.825	7.272	0.447
105	50	6.738	7.198	0.460
105	51	6.789	7.263	0.474
Max		7.224	7.379	0.475
Average		7.044	7.258	0.214
Min		6.716	7.139	0.028
Std Dev		0.132	0.057	0.130



	13.19_OUTA_FALL_1MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.205	7.139	7.175	7.274	7.170	7.260	7.179	7.162	7.170	7.217	7.157
Average	7.237	7.208	7.247	7.291	7.260	7.277	7.272	7.239	7.280	7.282	7.238
Max	7.276	7.251	7.331	7.309	7.350	7.295	7.379	7.314	7.343	7.353	7.299
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

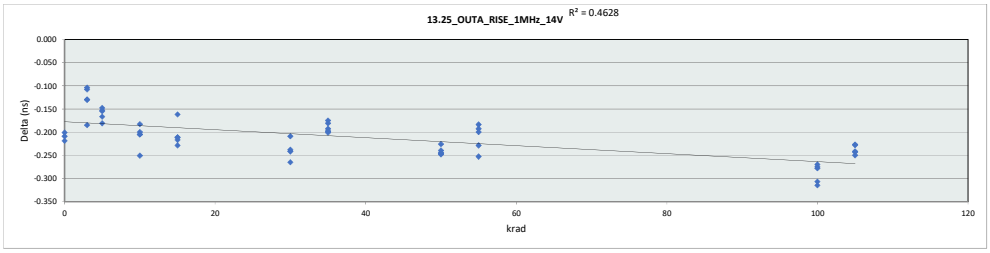


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

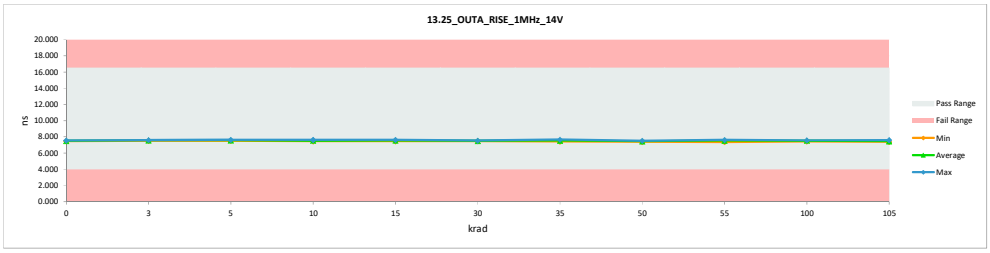
	13.25_OUTA_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.700	7.492	-0.208
0	69	7.712	7.512	-0.200
0	70	7.780	7.562	-0.218
3	1	7.690	7.583	-0.107
3	2	7.663	7.560	-0.103
3	3	7.740	7.611	-0.129
3	4	7.736	7.607	-0.129
3	5	7.699	7.515	-0.184
5	6	7.820	7.654	-0.166
5	7	7.735	7.588	-0.147
5	8	7.718	7.566	-0.152
5	9	7.766	7.586	-0.180
5	10	7.690	7.536	-0.154
10	11	7.826	7.644	-0.182
10	12	7.735	7.531	-0.204
10	13	7.672	7.468	-0.204
10	14	7.743	7.493	-0.250
10	15	7.756	7.557	-0.199
15	16	7.828	7.618	-0.210
15	17	7.730	7.514	-0.216
15	19	7.700	7.472	-0.228
15	20	7.815	7.654	-0.161
15	21	7.752	7.541	-0.211
30	22	7.720	7.479	-0.241
30	23	7.775	7.535	-0.240
30	24	7.753	7.516	-0.237
30	25	7.743	7.479	-0.264
30	26	7.752	7.544	-0.208
35	27	7.791	7.594	-0.197
35	28	7.720	7.520	-0.200
35	29	7.702	7.528	-0.174
35	30	7.861	7.681	-0.180
35	31	7.604	7.412	-0.192
50	32	7.742	7.517	-0.225
50	33	7.708	7.464	-0.244
50	34	7.669	7.422	-0.247
50	35	7.629	7.383	-0.246
50	36	7.770	7.531	-0.239
55	37	7.622	7.370	-0.252
55	38	7.855	7.627	-0.228
55	39	7.783	7.591	-0.192
55	40	7.728	7.529	-0.199
55	41	7.773	7.590	-0.183
100	42	7.854	7.580	-0.274
100	43	7.772	7.458	-0.314
100	44	7.794	7.488	-0.306
100	45	7.851	7.582	-0.269
100	46	7.835	7.558	-0.277
105	47	7.649	7.407	-0.242
105	48	7.720	7.479	-0.241
105	49	7.734	7.507	-0.227
105	50	7.687	7.438	-0.249
105	51	7.839	7.613	-0.226
Max		7.861	7.681	-0.103
Average		7.744	7.534	-0.210
Min		7.604	7.370	-0.314
Std Dev		0.062	0.071	0.045



	13.25_OUTA_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.492	7.515	7.536	7.468	7.472	7.479	7.412	7.383	7.370	7.458	7.407
Average	7.522	7.575	7.586	7.539	7.560	7.511	7.547	7.463	7.541	7.533	7.489
Max	7.562	7.611	7.654	7.644	7.654	7.544	7.681	7.531	7.627	7.582	7.613
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

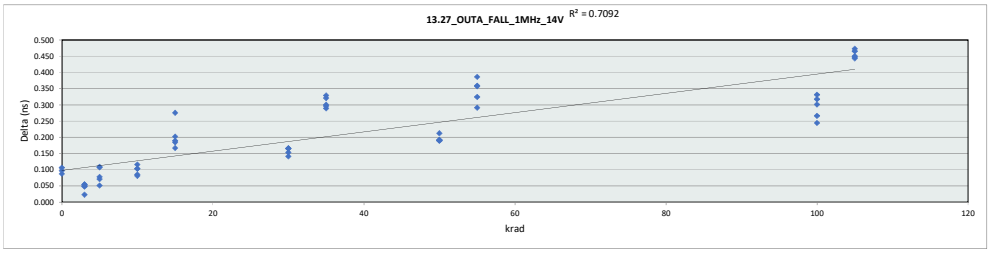


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

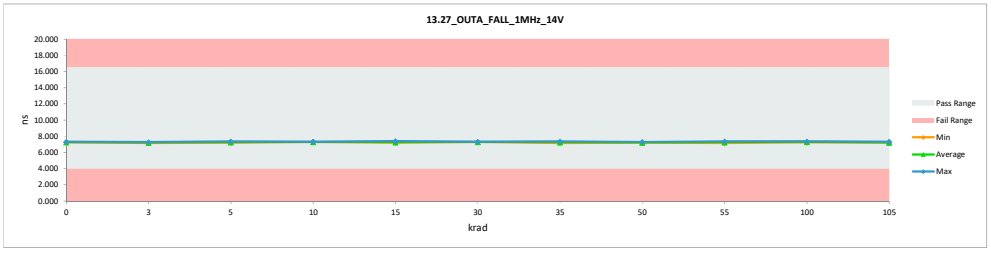
	13.27_OUTA_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	16.5
Min Limit	0	4

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.144	7.242	0.098
0	69	7.137	7.244	0.107
0	70	7.236	7.324	0.088
3	1	7.184	7.208	0.024
3	2	7.126	7.181	0.055
3	3	7.218	7.274	0.056
3	4	7.199	7.250	0.051
3	5	7.175	7.224	0.049
5	6	7.190	7.269	0.079
5	7	7.223	7.275	0.052
5	8	7.184	7.256	0.072
5	9	7.237	7.345	0.108
5	10	7.095	7.205	0.110
10	11	7.215	7.332	0.117
10	12	7.207	7.311	0.104
10	13	7.212	7.294	0.082
10	14	7.218	7.304	0.086
10	15	7.184	7.288	0.104
15	16	7.118	7.303	0.185
15	17	7.016	7.206	0.190
15	19	7.060	7.228	0.168
15	20	7.119	7.395	0.276
15	21	7.123	7.326	0.203
30	22	7.157	7.324	0.167
30	23	7.155	7.297	0.142
30	24	7.142	7.308	0.166
30	25	7.132	7.298	0.166
30	26	7.142	7.296	0.154
35	27	7.056	7.346	0.290
35	28	6.977	7.278	0.301
35	29	6.931	7.253	0.322
35	30	7.068	7.365	0.297
35	31	6.847	7.177	0.330
50	32	7.051	7.244	0.193
50	33	7.096	7.286	0.190
50	34	7.012	7.225	0.213
50	35	7.000	7.192	0.192
50	36	7.113	7.305	0.192
55	37	6.865	7.157	0.292
55	38	6.989	7.314	0.325
55	39	6.985	7.372	0.387
55	40	6.957	7.315	0.358
55	41	6.932	7.292	0.360
100	42	7.069	7.371	0.302
100	43	6.997	7.242	0.245
100	44	6.999	7.266	0.267
100	45	7.018	7.350	0.332
100	46	7.024	7.342	0.318
105	47	6.727	7.193	0.466
105	48	6.839	7.283	0.444
105	49	6.844	7.318	0.474
105	50	6.766	7.214	0.448
105	51	6.823	7.274	0.451
Max		7.237	7.395	0.474
Average		7.067	7.279	0.212
Min		6.727	7.157	0.024
Std Dev		0.130	0.056	0.126



	13.27_OUTA_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
Min	7.242	7.181	7.205	7.288	7.206	7.296	7.177	7.192	7.157	7.242	7.193
Average	7.270	7.227	7.270	7.306	7.292	7.305	7.284	7.250	7.290	7.314	7.256
Max	7.324	7.274	7.345	7.332	7.395	7.324	7.365	7.305	7.372	7.371	7.318
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

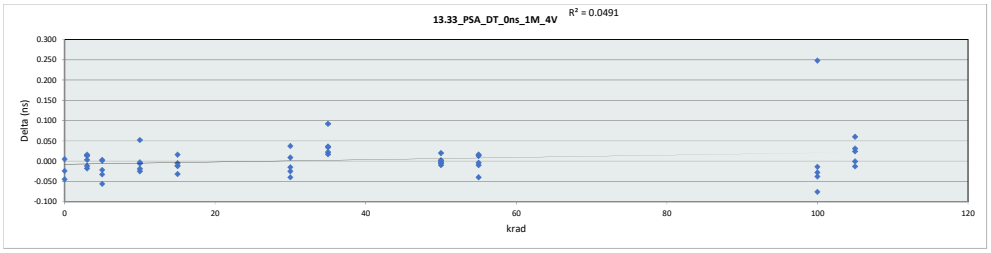


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

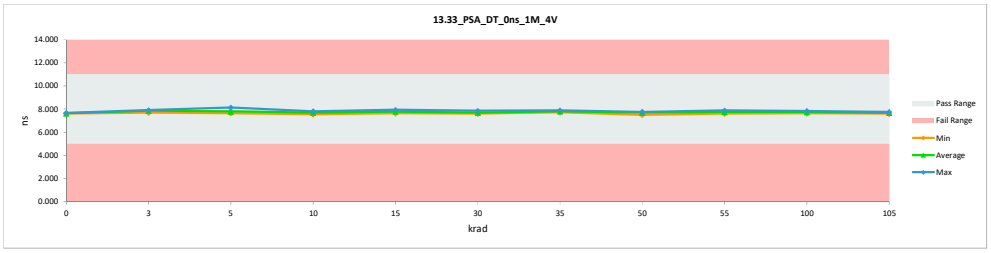
	13.33_PSA_DT_0ns_1M_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.633	7.610	-0.023
0	69	7.666	7.672	0.006
0	70	7.680	7.636	-0.044
3	1	7.683	7.687	0.004
3	2	7.819	7.833	0.014
3	3	7.908	7.897	-0.011
3	4	7.921	7.904	-0.017
3	5	7.903	7.920	0.017
5	6	7.676	7.644	-0.032
5	7	7.816	7.818	0.002
5	8	7.703	7.682	-0.021
5	9	7.731	7.735	0.004
5	10	8.184	8.129	-0.055
10	11	7.762	7.815	0.053
10	12	7.705	7.687	-0.018
10	13	7.568	7.566	-0.002
10	14	7.768	7.763	-0.005
10	15	7.702	7.678	-0.024
15	16	7.806	7.795	-0.011
15	17	7.872	7.841	-0.031
15	19	7.640	7.629	-0.011
15	20	7.928	7.945	0.017
15	21	7.726	7.722	-0.004
30	22	7.730	7.706	-0.024
30	23	7.653	7.614	-0.039
30	24	7.815	7.853	0.038
30	25	7.721	7.731	0.010
30	26	7.624	7.610	-0.014
35	27	7.829	7.847	0.018
35	28	7.623	7.716	0.093
35	29	7.750	7.773	0.023
35	30	7.871	7.908	0.037
35	31	7.797	7.832	0.035
50	32	7.752	7.751	-0.001
50	33	7.748	7.769	0.021
50	34	7.768	7.771	0.003
50	35	7.513	7.504	-0.009
50	36	7.688	7.684	-0.004
55	37	7.661	7.622	-0.039
55	38	7.719	7.736	0.017
55	39	7.872	7.886	0.014
55	40	7.727	7.718	-0.009
55	41	7.775	7.772	-0.003
100	42	7.824	7.797	-0.027
100	43	7.752	7.677	-0.075
100	44	7.671	7.634	-0.037
100	45	7.598	7.847	0.249
100	46	7.772	7.759	-0.013
105	47	7.589	7.650	0.061
105	48	7.675	7.663	-0.012
105	49	7.749	7.749	0.000
105	50	7.582	7.607	0.025
105	51	7.679	7.711	0.032
Max		8.184	8.129	0.249
Average		7.742	7.745	0.003
Min		7.513	7.504	-0.075
Std Dev		0.113	0.113	0.045



	13.33_PSA_DT_0ns_1M_4V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	7.610	7.687	7.644	7.566	7.629	7.610	7.716	7.504	7.622	7.634	7.607
Average	7.639	7.848	7.802	7.702	7.786	7.703	7.815	7.696	7.747	7.743	7.676
Max	7.672	7.920	8.129	7.815	7.945	7.853	7.908	7.771	7.886	7.847	7.749
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

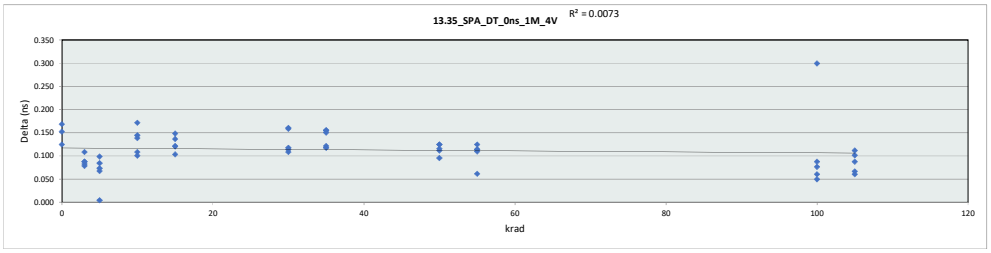


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

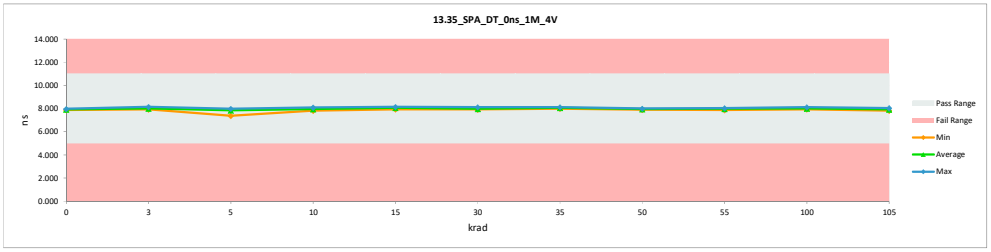
	13.35_SPA_DT_0ns_1M_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.762	7.887	0.125
0	69	7.813	7.982	0.169
0	70	7.808	7.961	0.153
3	1	7.822	7.931	0.109
3	2	7.855	7.938	0.083
3	3	8.004	8.083	0.079
3	4	8.076	8.164	0.088
3	5	7.893	7.981	0.088
5	6	7.917	7.991	0.074
5	7	7.924	7.929	0.005
5	8	7.863	7.931	0.068
5	9	7.904	8.003	0.099
5	10	7.294	7.379	0.085
10	11	7.956	8.101	0.145
10	12	7.741	7.842	0.101
10	13	7.695	7.834	0.139
10	14	7.924	8.033	0.109
10	15	7.795	7.967	0.172
15	16	7.951	8.088	0.137
15	17	8.010	8.114	0.104
15	19	7.822	7.943	0.121
15	20	8.007	8.156	0.149
15	21	7.905	8.027	0.122
30	22	7.806	7.924	0.118
30	23	7.851	7.960	0.109
30	24	7.973	8.134	0.161
30	25	7.810	7.924	0.114
30	26	7.761	7.920	0.159
35	27	7.939	8.090	0.151
35	28	7.878	8.000	0.122
35	29	7.897	8.053	0.156
35	30	8.018	8.136	0.118
35	31	7.905	8.060	0.155
50	32	7.865	7.981	0.116
50	33	7.883	8.008	0.125
50	34	7.913	8.009	0.096
50	35	7.789	7.901	0.112
50	36	7.829	7.954	0.125
55	37	7.818	7.880	0.062
55	38	7.895	8.009	0.114
55	39	7.930	8.040	0.110
55	40	7.857	7.972	0.115
55	41	7.872	7.997	0.125
100	42	7.939	8.000	0.061
100	43	7.916	7.966	0.050
100	44	7.869	7.946	0.077
100	45	7.830	8.130	0.300
100	46	7.950	8.038	0.088
105	47	7.769	7.830	0.061
105	48	7.930	7.997	0.067
105	49	7.959	8.047	0.088
105	50	7.836	7.938	0.102
105	51	7.799	7.911	0.112
Max		8.076	8.164	0.300
Average		7.868	7.982	0.113
Min		7.294	7.379	0.005
Std Dev		0.112	0.117	0.043



	13.35_SPA_DT_0ns_1M_4V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	7.887	7.931	7.379	7.834	7.943	7.920	8.000	7.901	7.880	7.946	7.830
Average	7.943	8.019	7.847	7.955	8.066	7.972	8.068	7.971	7.980	8.016	7.945
Max	7.982	8.164	8.003	8.101	8.156	8.134	8.136	8.009	8.040	8.130	8.047
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

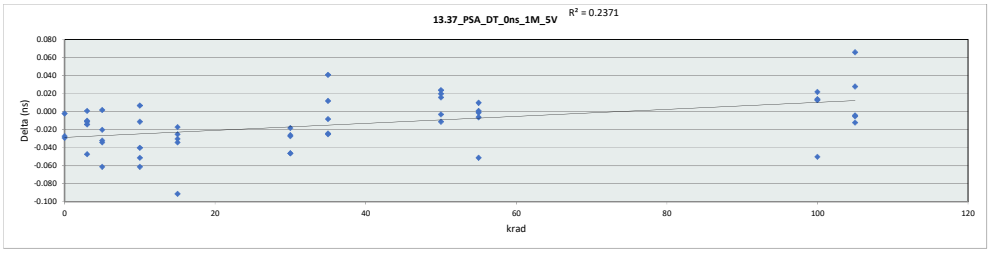


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

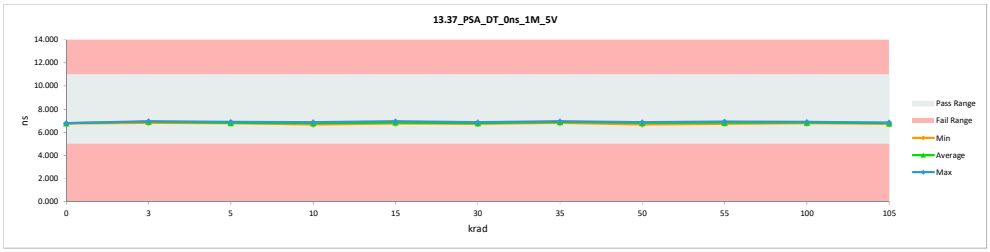
	13.37_PSA_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.782	6.753	-0.029
0	69	6.797	6.795	-0.002
0	70	6.805	6.778	-0.027
3	1	6.800	6.801	0.001
3	2	6.921	6.910	-0.011
3	3	6.950	6.936	-0.014
3	4	6.969	6.959	-0.010
3	5	6.994	6.947	-0.047
5	6	6.832	6.771	-0.061
5	7	6.922	6.888	-0.034
5	8	6.826	6.794	-0.032
5	9	6.842	6.844	0.002
5	10	6.824	6.804	-0.020
10	11	6.849	6.856	0.007
10	12	6.853	6.792	-0.061
10	13	6.736	6.685	-0.051
10	14	6.896	6.856	-0.040
10	15	6.806	6.795	-0.011
15	16	6.885	6.860	-0.025
15	17	6.955	6.864	-0.091
15	19	6.791	6.761	-0.030
15	20	6.953	6.936	-0.017
15	21	6.845	6.811	-0.034
30	22	6.847	6.821	-0.026
30	23	6.777	6.750	-0.027
30	24	6.881	6.863	-0.018
30	25	6.842	6.796	-0.046
30	26	6.775	6.729	-0.046
35	27	6.917	6.893	-0.024
35	28	6.843	6.818	-0.025
35	29	6.862	6.874	0.012
35	30	6.914	6.955	0.041
35	31	6.863	6.855	-0.008
50	32	6.825	6.849	0.024
50	33	6.844	6.864	0.020
50	34	6.849	6.846	-0.003
50	35	6.696	6.685	-0.011
50	36	6.835	6.851	0.016
55	37	6.782	6.731	-0.051
55	38	6.823	6.817	-0.006
55	39	6.926	6.927	0.001
55	40	6.842	6.852	0.010
55	41	6.833	6.832	-0.001
100	42	6.857	6.879	0.022
100	43	6.819	6.769	-0.050
100	44	6.759	6.773	0.014
100	45	6.885	6.898	0.013
100	46	6.818	6.831	0.013
105	47	6.748	6.743	-0.005
105	48	6.790	6.778	-0.012
105	49	6.799	6.827	0.028
105	50	6.729	6.725	-0.004
105	51	6.782	6.848	0.066
Max		6.994	6.959	0.066
Average		6.841	6.828	-0.014
Min		6.696	6.685	-0.091
Std Dev		0.064	0.067	0.028



	13.37_PSA_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	6.753	6.801	6.771	6.685	6.761	6.729	6.818	6.685	6.731	6.769	6.725
Average	6.775	6.911	6.820	6.797	6.846	6.792	6.879	6.819	6.832	6.830	6.784
Max	6.795	6.959	6.888	6.856	6.936	6.863	6.955	6.864	6.927	6.898	6.848
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

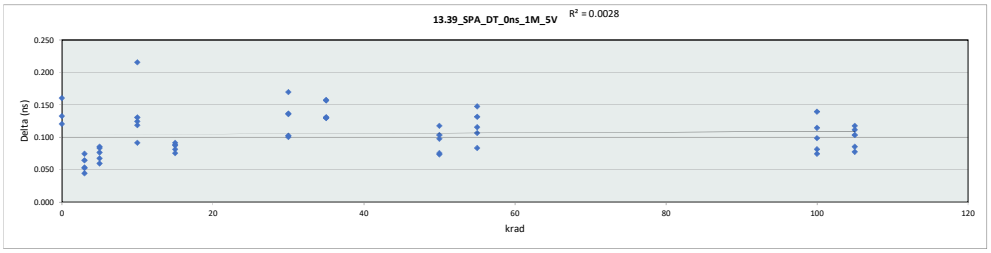


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

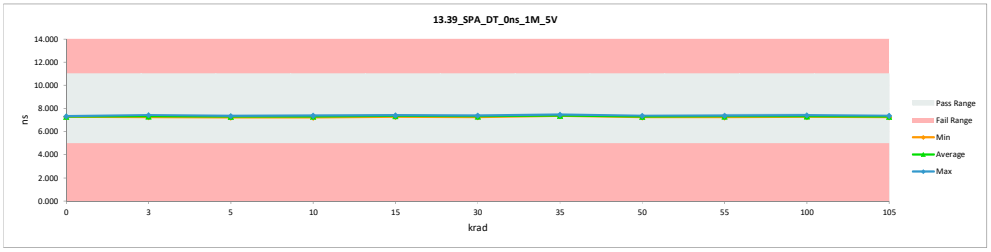
	13.39_SPA_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.162	7.295	0.133
0	69	7.180	7.341	0.161
0	70	7.201	7.322	0.121
3	1	7.197	7.272	0.075
3	2	7.239	7.293	0.054
3	3	7.305	7.370	0.065
3	4	7.392	7.437	0.045
3	5	7.267	7.320	0.053
5	6	7.276	7.336	0.060
5	7	7.272	7.356	0.084
5	8	7.240	7.317	0.077
5	9	7.260	7.346	0.086
5	10	7.167	7.235	0.068
10	11	7.267	7.398	0.131
10	12	7.122	7.247	0.125
10	13	7.115	7.234	0.119
10	14	7.273	7.365	0.092
10	15	7.075	7.291	0.216
15	16	7.281	7.373	0.092
15	17	7.328	7.404	0.076
15	19	7.199	7.287	0.088
15	20	7.333	7.415	0.082
15	21	7.278	7.367	0.089
30	22	7.188	7.291	0.103
30	23	7.219	7.320	0.101
30	24	7.268	7.405	0.137
30	25	7.176	7.346	0.170
30	26	7.134	7.270	0.136
35	27	7.276	7.406	0.130
35	28	7.234	7.365	0.131
35	29	7.258	7.416	0.158
35	30	7.313	7.470	0.157
35	31	7.237	7.368	0.131
50	32	7.206	7.280	0.074
50	33	7.244	7.348	0.104
50	34	7.266	7.384	0.118
50	35	7.186	7.262	0.076
50	36	7.225	7.323	0.098
55	37	7.158	7.242	0.084
55	38	7.232	7.339	0.107
55	39	7.263	7.395	0.132
55	40	7.209	7.357	0.148
55	41	7.203	7.319	0.116
100	42	7.236	7.376	0.140
100	43	7.220	7.319	0.099
100	44	7.204	7.279	0.075
100	45	7.310	7.425	0.115
100	46	7.252	7.334	0.082
105	47	7.158	7.270	0.112
105	48	7.257	7.343	0.086
105	49	7.302	7.380	0.078
105	50	7.202	7.306	0.104
105	51	7.178	7.296	0.118
Max		7.392	7.470	0.216
Average		7.231	7.337	0.106
Min		7.075	7.234	0.045
Std Dev		0.060	0.055	0.034



	13.39_SPA_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	7.295	7.272	7.235	7.234	7.287	7.270	7.365	7.262	7.242	7.279	7.270
Average	7.319	7.338	7.318	7.307	7.369	7.326	7.405	7.319	7.330	7.347	7.319
Max	7.341	7.437	7.356	7.398	7.415	7.405	7.470	7.384	7.395	7.425	7.380
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

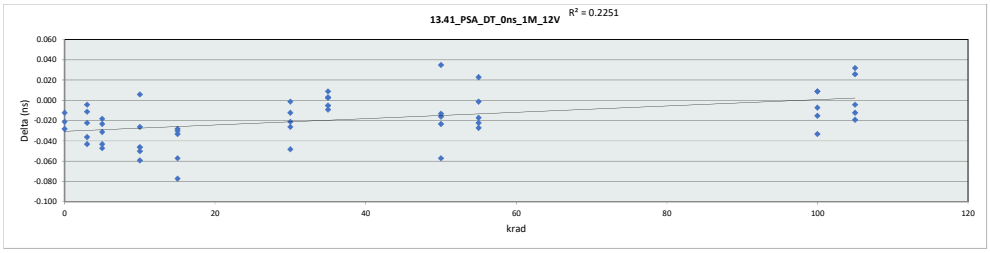


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

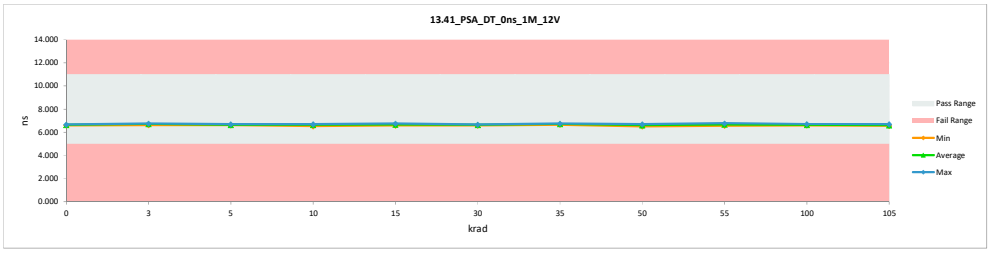
	13.41_PSA_DT_0ns_1M_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.634	6.606	-0.028
0	69	6.650	6.629	-0.021
0	70	6.681	6.669	-0.012
3	1	6.632	6.621	-0.011
3	2	6.733	6.697	-0.036
3	3	6.763	6.741	-0.022
3	4	6.784	6.741	-0.043
3	5	6.764	6.760	-0.004
5	6	6.687	6.644	-0.043
5	7	6.741	6.694	-0.047
5	8	6.641	6.610	-0.031
5	9	6.687	6.664	-0.023
5	10	6.649	6.631	-0.018
10	11	6.685	6.691	0.006
10	12	6.713	6.654	-0.059
10	13	6.586	6.536	-0.050
10	14	6.692	6.646	-0.046
10	15	6.660	6.634	-0.026
15	16	6.732	6.704	-0.028
15	17	6.756	6.679	-0.077
15	19	6.647	6.590	-0.057
15	20	6.786	6.756	-0.030
15	21	6.672	6.639	-0.033
30	22	6.657	6.656	-0.001
30	23	6.647	6.599	-0.048
30	24	6.696	6.675	-0.021
30	25	6.668	6.656	-0.012
30	26	6.611	6.585	-0.026
35	27	6.756	6.747	-0.009
35	28	6.670	6.673	0.003
35	29	6.737	6.740	0.003
35	30	6.764	6.759	-0.005
35	31	6.645	6.654	0.009
50	32	6.651	6.638	-0.013
50	33	6.657	6.692	0.035
50	34	6.653	6.630	-0.023
50	35	6.523	6.507	-0.016
50	36	6.690	6.633	-0.057
55	37	6.591	6.569	-0.022
55	38	6.666	6.689	0.023
55	39	6.778	6.777	-0.001
55	40	6.679	6.652	-0.027
55	41	6.640	6.623	-0.017
100	42	6.683	6.676	-0.007
100	43	6.645	6.612	-0.033
100	44	6.594	6.603	0.009
100	45	6.702	6.711	0.009
100	46	6.661	6.646	-0.015
105	47	6.562	6.588	0.026
105	48	6.592	6.573	-0.019
105	49	6.634	6.622	-0.012
105	50	6.577	6.573	-0.004
105	51	6.657	6.689	0.032
Max		6.786	6.777	0.035
Average		6.673	6.654	-0.018
Min		6.523	6.507	-0.077
Std Dev		0.059	0.059	0.023



	13.41_PSA_DT_0ns_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	6.606	6.621	6.610	6.536	6.590	6.585	6.654	6.507	6.569	6.603	6.573
Average	6.635	6.712	6.649	6.632	6.674	6.634	6.715	6.620	6.662	6.650	6.609
Max	6.669	6.760	6.694	6.691	6.756	6.675	6.759	6.692	6.777	6.711	6.689
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

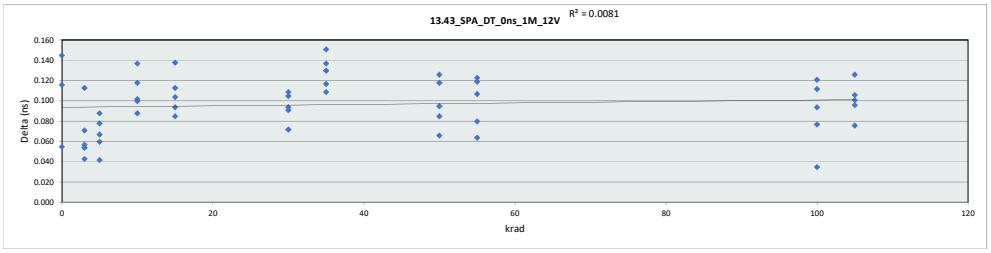


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

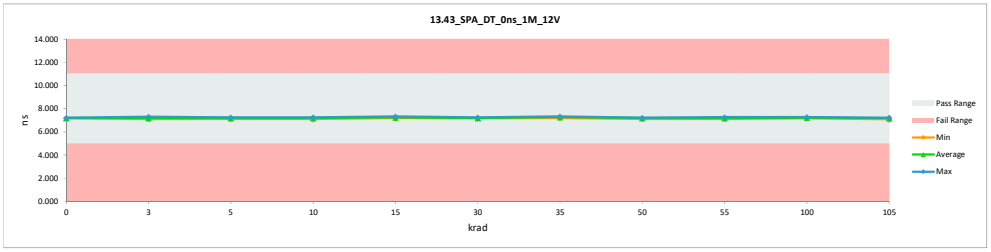
	13.43_SPA_DT_0ns_1M_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.052	7.168	0.116
0	69	7.064	7.209	0.145
0	70	7.117	7.172	0.055
3	1	7.088	7.142	0.054
3	2	7.078	7.121	0.043
3	3	7.156	7.227	0.071
3	4	7.246	7.303	0.057
3	5	7.037	7.150	0.113
5	6	7.189	7.249	0.060
5	7	7.142	7.209	0.067
5	8	7.114	7.156	0.042
5	9	7.136	7.224	0.088
5	10	7.024	7.102	0.078
10	11	7.136	7.254	0.118
10	12	7.047	7.149	0.102
10	13	7.007	7.095	0.088
10	14	7.117	7.254	0.137
10	15	7.061	7.161	0.100
15	16	7.174	7.278	0.104
15	17	7.168	7.281	0.113
15	19	7.092	7.177	0.085
15	20	7.195	7.333	0.138
15	21	7.127	7.221	0.094
30	22	7.071	7.162	0.091
30	23	7.124	7.196	0.072
30	24	7.138	7.243	0.105
30	25	7.072	7.181	0.109
30	26	7.056	7.150	0.094
35	27	7.161	7.291	0.130
35	28	7.118	7.235	0.117
35	29	7.156	7.293	0.137
35	30	7.183	7.334	0.151
35	31	7.078	7.187	0.109
50	32	7.070	7.196	0.126
50	33	7.093	7.211	0.118
50	34	7.103	7.198	0.095
50	35	7.055	7.121	0.066
50	36	7.114	7.199	0.085
55	37	7.051	7.115	0.064
55	38	7.133	7.240	0.107
55	39	7.149	7.268	0.119
55	40	7.112	7.192	0.080
55	41	7.060	7.183	0.123
100	42	7.117	7.211	0.094
100	43	7.116	7.151	0.035
100	44	7.078	7.155	0.077
100	45	7.164	7.276	0.112
100	46	7.123	7.244	0.121
105	47	7.009	7.085	0.076
105	48	7.096	7.197	0.101
105	49	7.112	7.218	0.106
105	50	7.077	7.173	0.096
105	51	7.080	7.206	0.126
Max		7.246	7.334	0.151
Average		7.106	7.203	0.096
Min		7.007	7.085	0.035
Std Dev		0.050	0.059	0.028



	13.43_SPA_DT_0ns_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	7.168	7.121	7.102	7.095	7.177	7.150	7.187	7.121	7.115	7.151	7.085
Average	7.183	7.189	7.188	7.183	7.258	7.186	7.268	7.185	7.200	7.207	7.176
Max	7.209	7.303	7.249	7.254	7.333	7.243	7.334	7.211	7.268	7.276	7.218
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

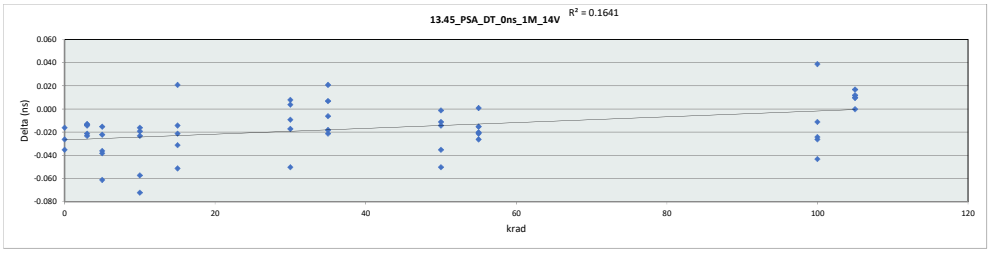


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

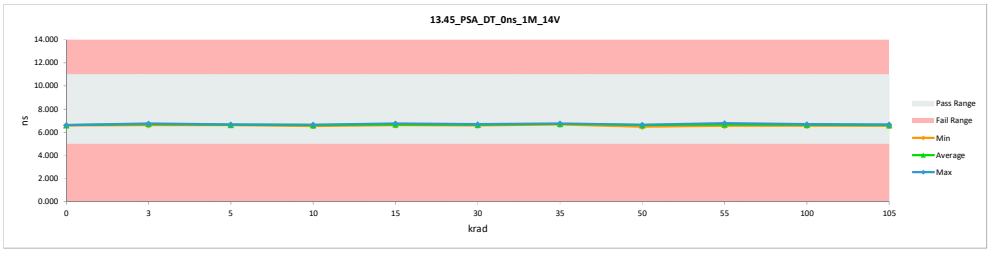
	13.45_PSA_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	6.622	6.606	-0.016
0	69	6.636	6.610	-0.026
0	70	6.663	6.628	-0.035
3	1	6.632	6.618	-0.014
3	2	6.721	6.708	-0.013
3	3	6.765	6.744	-0.021
3	4	6.768	6.745	-0.023
3	5	6.748	6.735	-0.013
5	6	6.682	6.646	-0.036
5	7	6.745	6.684	-0.061
5	8	6.654	6.616	-0.038
5	9	6.677	6.655	-0.022
5	10	6.655	6.640	-0.015
10	11	6.665	6.642	-0.023
10	12	6.728	6.656	-0.072
10	13	6.561	6.542	-0.019
10	14	6.708	6.651	-0.057
10	15	6.651	6.635	-0.016
15	16	6.720	6.706	-0.014
15	17	6.743	6.692	-0.051
15	19	6.641	6.610	-0.031
15	20	6.749	6.770	0.021
15	21	6.674	6.653	-0.021
30	22	6.671	6.675	0.004
30	23	6.654	6.604	-0.050
30	24	6.709	6.692	-0.017
30	25	6.662	6.670	0.008
30	26	6.618	6.609	-0.009
35	27	6.739	6.746	0.007
35	28	6.682	6.664	-0.018
35	29	6.713	6.734	0.021
35	30	6.773	6.767	-0.006
35	31	6.689	6.668	-0.021
50	32	6.653	6.639	-0.014
50	33	6.651	6.640	-0.011
50	34	6.663	6.662	-0.001
50	35	6.535	6.485	-0.050
50	36	6.670	6.635	-0.035
55	37	6.579	6.558	-0.021
55	38	6.700	6.680	-0.020
55	39	6.791	6.792	0.001
55	40	6.682	6.656	-0.026
55	41	6.644	6.629	-0.015
100	42	6.681	6.670	-0.011
100	43	6.646	6.603	-0.043
100	44	6.597	6.573	-0.024
100	45	6.708	6.682	-0.026
100	46	6.650	6.689	0.039
105	47	6.567	6.579	0.012
105	48	6.581	6.581	0.000
105	49	6.630	6.647	0.017
105	50	6.563	6.573	0.010
105	51	6.659	6.669	0.010
Max		6.791	6.792	0.039
Average		6.671	6.654	-0.017
Min		6.535	6.485	-0.072
Std Dev		0.058	0.060	0.022



	13.45_PSA_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	6.606	6.618	6.616	6.542	6.610	6.604	6.664	6.485	6.558	6.573	6.573
Average	6.615	6.710	6.648	6.625	6.686	6.650	6.716	6.612	6.663	6.643	6.610
Max	6.628	6.745	6.684	6.656	6.770	6.692	6.767	6.662	6.792	6.689	6.669
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

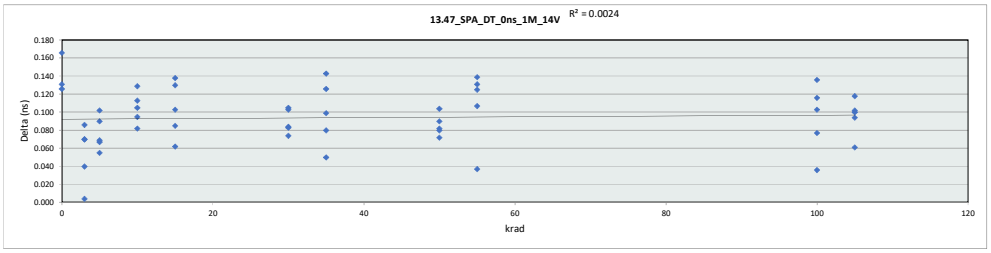


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

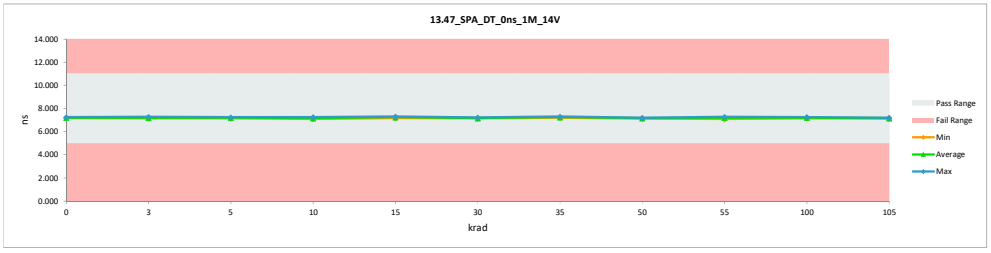
	13.47_SPA_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	7.048	7.179	0.131
0	69	7.069	7.195	0.126
0	70	7.097	7.263	0.166
3	1	7.066	7.152	0.086
3	2	7.099	7.139	0.040
3	3	7.149	7.219	0.070
3	4	7.222	7.292	0.070
3	5	7.141	7.145	0.004
5	6	7.181	7.250	0.069
5	7	7.147	7.202	0.055
5	8	7.103	7.170	0.067
5	9	7.134	7.224	0.090
5	10	7.027	7.129	0.102
10	11	7.126	7.255	0.129
10	12	7.057	7.139	0.082
10	13	6.990	7.095	0.105
10	14	7.128	7.223	0.095
10	15	7.053	7.166	0.113
15	16	7.177	7.280	0.103
15	17	7.188	7.250	0.062
15	19	7.086	7.171	0.085
15	20	7.187	7.317	0.130
15	21	7.136	7.274	0.138
30	22	7.066	7.149	0.083
30	23	7.134	7.208	0.074
30	24	7.137	7.221	0.084
30	25	7.066	7.169	0.103
30	26	7.054	7.159	0.105
35	27	7.155	7.281	0.126
35	28	7.144	7.224	0.080
35	29	7.156	7.299	0.143
35	30	7.207	7.306	0.099
35	31	7.155	7.205	0.050
50	32	7.077	7.181	0.104
50	33	7.099	7.189	0.090
50	34	7.125	7.197	0.072
50	35	7.040	7.122	0.082
50	36	7.115	7.195	0.080
55	37	7.057	7.094	0.037
55	38	7.148	7.273	0.125
55	39	7.147	7.286	0.139
55	40	7.107	7.238	0.131
55	41	7.071	7.178	0.107
100	42	7.100	7.236	0.136
100	43	7.116	7.152	0.036
100	44	7.076	7.153	0.077
100	45	7.173	7.276	0.103
100	46	7.124	7.240	0.116
105	47	7.009	7.109	0.100
105	48	7.103	7.205	0.102
105	49	7.132	7.193	0.061
105	50	7.076	7.170	0.094
105	51	7.080	7.198	0.118
Max		7.222	7.317	0.166
Average		7.111	7.204	0.094
Min		6.990	7.094	0.004
Std Dev		0.050	0.057	0.032



	13.47_SPA_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
Min	7.179	7.139	7.129	7.095	7.171	7.149	7.205	7.122	7.094	7.152	7.109
Average	7.212	7.189	7.195	7.176	7.258	7.181	7.263	7.177	7.214	7.211	7.175
Max	7.263	7.292	7.250	7.255	7.317	7.221	7.306	7.197	7.286	7.276	7.205
UL	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000

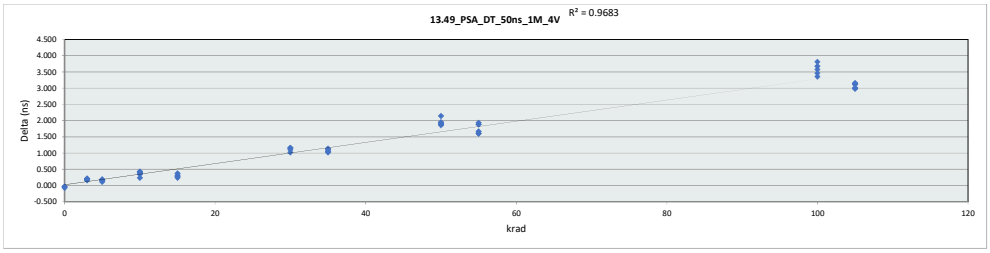


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

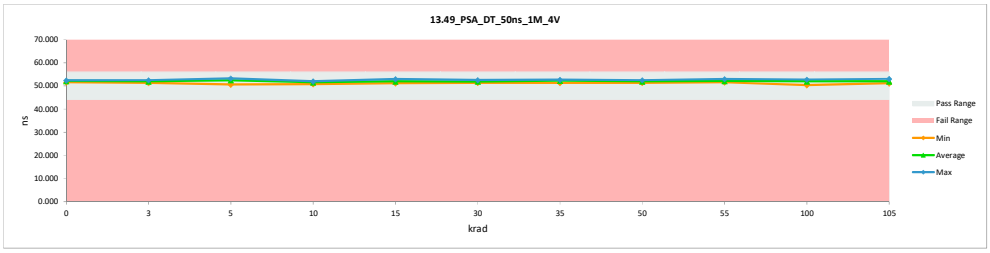
	13.49_PSA_DT_50ns_1M_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	56	56
Min Limit	43	44

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	51.626	51.559	-0.067
0	69	52.390	52.356	-0.034
0	70	52.445	52.420	-0.025
3	1	51.115	51.335	0.220
3	2	52.315	52.510	0.195
3	3	52.246	52.466	0.220
3	4	51.896	52.084	0.188
3	5	51.486	51.654	0.168
5	6	50.419	50.618	0.199
5	7	52.180	52.298	0.118
5	8	52.855	53.012	0.157
5	9	53.103	53.285	0.182
5	10	53.088	53.243	0.155
10	11	50.355	50.785	0.430
10	12	50.960	51.392	0.432
10	13	51.759	52.004	0.245
10	14	51.411	51.810	0.399
10	15	51.597	51.948	0.351
15	16	52.322	52.609	0.287
15	17	51.258	51.560	0.302
15	19	52.567	52.947	0.380
15	20	51.595	51.839	0.244
15	21	50.820	51.143	0.323
30	22	50.636	51.664	1.028
30	23	51.415	52.577	1.162
30	24	51.190	52.357	1.167
30	25	50.276	51.383	1.107
30	26	50.671	51.837	1.166
35	27	51.472	52.530	1.058
35	28	51.647	52.705	1.058
35	29	51.436	52.547	1.111
35	30	51.359	52.505	1.146
35	31	50.232	51.259	1.027
50	32	50.605	52.507	1.902
50	33	50.033	51.989	1.956
50	34	50.186	52.092	1.906
50	35	50.187	52.051	1.864
50	36	49.229	51.382	2.153
55	37	49.879	51.553	1.674
55	38	50.563	52.181	1.618
55	39	50.494	52.383	1.889
55	40	50.074	51.682	1.608
55	41	51.107	53.048	1.941
100	42	47.008	50.373	3.365
100	43	49.191	52.773	3.582
100	44	48.693	52.378	3.685
100	45	48.960	52.778	3.818
100	46	48.433	51.903	3.470
105	47	48.157	51.168	3.011
105	48	48.849	51.836	2.987
105	49	48.557	51.678	3.121
105	50	49.900	53.059	3.159
105	51	49.274	52.434	3.160
Max		53.103	53.285	3.818
Average		50.783	52.066	1.282
Min		47.008	50.373	-0.067
Std Dev		1.353	0.663	1.186



	13.49_PSA_DT_50ns_1M_4V	
Test Site		
Tester		
Test Number		
Max Limit	56	ns
Min Limit	44	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000
Min	51.559	51.335	50.618	50.785	51.143	51.383	51.259	51.382	51.553	50.373	51.168
Average	52.112	52.010	52.491	51.588	52.020	51.964	52.309	52.004	52.169	52.041	52.035
Max	52.420	52.510	53.285	52.004	52.947	52.577	52.705	52.507	53.048	52.778	53.059
UL	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000

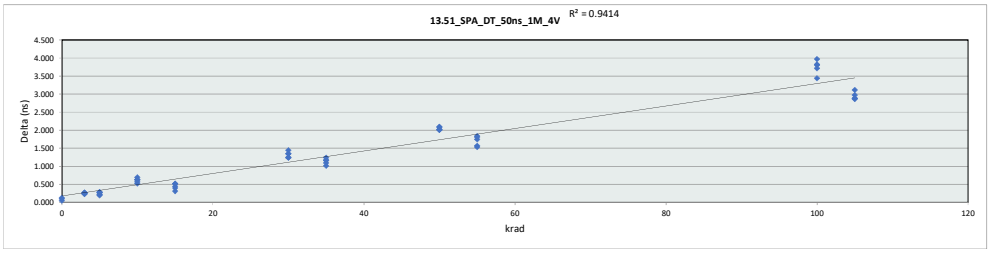


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

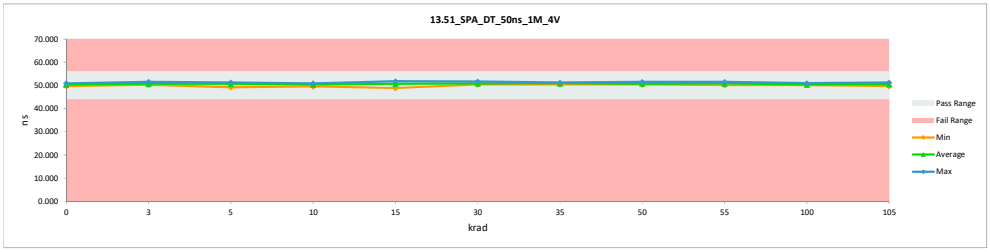
	13.51_SPA_DT_50ns_1M_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	56	56
Min Limit	43	44

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	49.684	49.735	0.051
0	69	50.530	50.662	0.132
0	70	50.872	50.979	0.107
3	1	50.538	50.786	0.248
3	2	50.331	50.583	0.252
3	3	51.295	51.570	0.275
3	4	50.090	50.325	0.235
3	5	50.010	50.290	0.280
5	6	49.009	49.207	0.198
5	7	51.151	51.373	0.222
5	8	50.634	50.919	0.285
5	9	50.945	51.237	0.292
5	10	50.525	50.795	0.270
10	11	48.884	49.584	0.700
10	12	49.992	50.522	0.530
10	13	49.632	50.210	0.578
10	14	50.103	50.742	0.639
10	15	50.244	50.875	0.631
15	16	50.800	51.324	0.524
15	17	50.720	51.123	0.403
15	19	51.305	51.822	0.517
15	20	50.067	50.386	0.319
15	21	48.417	48.866	0.449
30	22	50.382	51.735	1.353
30	23	49.335	50.588	1.253
30	24	49.723	51.171	1.448
30	25	49.099	50.452	1.353
30	26	49.182	50.423	1.241
35	27	50.073	51.175	1.102
35	28	49.848	50.868	1.020
35	29	49.808	50.979	1.171
35	30	50.013	51.260	1.247
35	31	49.242	50.421	1.179
50	32	48.779	50.809	2.030
50	33	48.482	50.503	2.021
50	34	49.429	51.531	2.102
50	35	48.656	50.669	2.013
50	36	48.276	50.365	2.089
55	37	48.550	50.091	1.541
55	38	48.811	50.630	1.819
55	39	49.700	51.546	1.846
55	40	49.755	51.330	1.575
55	41	49.194	50.946	1.752
100	42	46.292	50.107	3.815
100	43	47.017	50.465	3.448
100	44	46.440	50.164	3.724
100	45	47.034	51.013	3.979
100	46	46.535	50.364	3.829
105	47	47.804	50.786	2.982
105	48	47.501	50.388	2.887
105	49	48.393	51.266	2.873
105	50	47.534	50.657	3.123
105	51	46.885	49.777	2.892
Max		51.305	51.822	3.979
Average		49.312	50.687	1.374
Min		46.292	48.866	0.051
Std Dev		1.319	0.600	1.152



	13.51_SPA_DT_50ns_1M_4V	
Test Site		
Tester		
Test Number		
Max Limit	56	ns
Min Limit	44	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000	44.000
Min	49.735	50.290	49.207	49.584	48.866	50.423	50.421	50.365	50.091	50.107	49.777
Average	50.459	50.711	50.706	50.387	50.704	50.874	50.941	50.775	50.909	50.423	50.575
Max	50.979	51.570	51.373	50.875	51.822	51.735	51.260	51.531	51.546	51.013	51.266
UL	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000	56.000

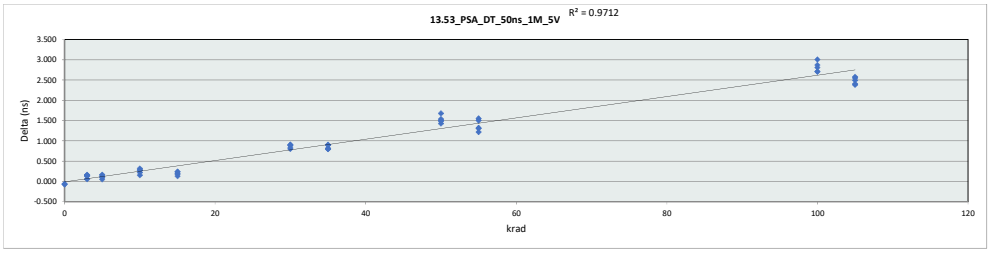


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

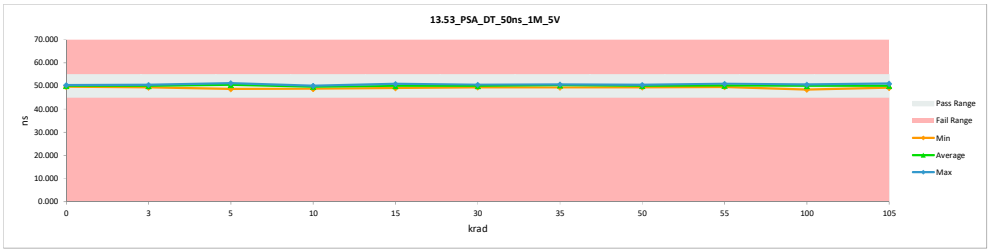
	13.53_PSA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	45

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	49.706	49.639	-0.067
0	69	50.391	50.338	-0.053
0	70	50.471	50.410	-0.061
3	1	49.267	49.417	0.150
3	2	50.273	50.444	0.171
3	3	50.357	50.521	0.164
3	4	49.969	50.107	0.138
3	5	49.670	49.734	0.064
5	6	48.500	48.672	0.172
5	7	50.282	50.339	0.057
5	8	50.942	51.041	0.099
5	9	51.110	51.253	0.143
5	10	51.075	51.190	0.115
10	11	48.445	48.770	0.325
10	12	49.136	49.426	0.290
10	13	49.970	50.131	0.161
10	14	49.516	49.794	0.278
10	15	49.724	49.952	0.228
15	16	50.382	50.629	0.247
15	17	49.370	49.551	0.181
15	19	50.696	50.937	0.241
15	20	49.746	49.883	0.137
15	21	48.922	49.124	0.202
30	22	48.972	49.780	0.808
30	23	49.694	50.604	0.910
30	24	49.492	50.383	0.891
30	25	48.618	49.452	0.834
30	26	48.975	49.886	0.911
35	27	49.741	50.563	0.822
35	28	49.871	50.678	0.807
35	29	49.614	50.514	0.900
35	30	49.586	50.496	0.910
35	31	48.546	49.349	0.803
50	32	49.026	50.539	1.513
50	33	48.466	50.010	1.544
50	34	48.639	50.131	1.492
50	35	48.737	50.170	1.433
50	36	47.791	49.475	1.684
55	37	48.256	49.576	1.320
55	38	48.926	50.246	1.320
55	39	48.914	50.427	1.513
55	40	48.506	49.730	1.224
55	41	49.414	50.971	1.557
100	42	45.753	48.466	2.713
100	43	47.835	50.649	2.814
100	44	47.474	50.350	2.876
100	45	47.618	50.629	3.011
100	46	47.157	49.875	2.718
105	47	46.819	49.229	2.410
105	48	47.505	49.892	2.387
105	49	47.208	49.792	2.584
105	50	48.552	51.050	2.498
105	51	47.871	50.426	2.555
Max		51.110	51.253	3.011
Average		49.085	50.088	1.003
Min		45.753	48.466	-0.067
Std Dev		1.146	0.634	0.954



	13.53_PSA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	55	ns
Min Limit	45	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	49.639	49.417	48.672	48.770	49.124	49.452	49.349	49.475	49.576	48.466	49.229
Average	50.129	50.045	50.499	49.615	50.025	50.021	50.320	50.065	50.190	49.994	50.078
Max	50.410	50.521	51.253	50.131	50.937	50.604	50.678	50.539	50.971	50.649	51.050
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

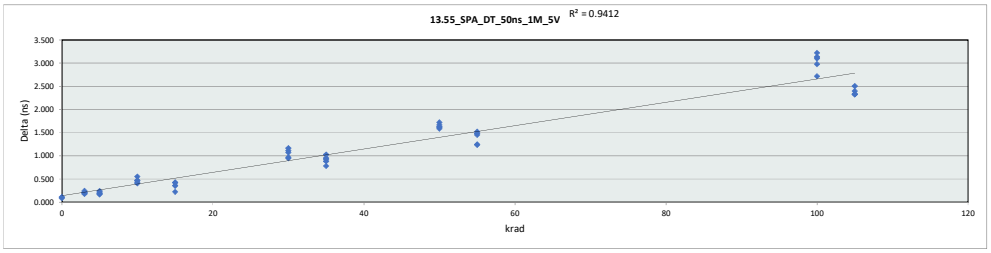


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

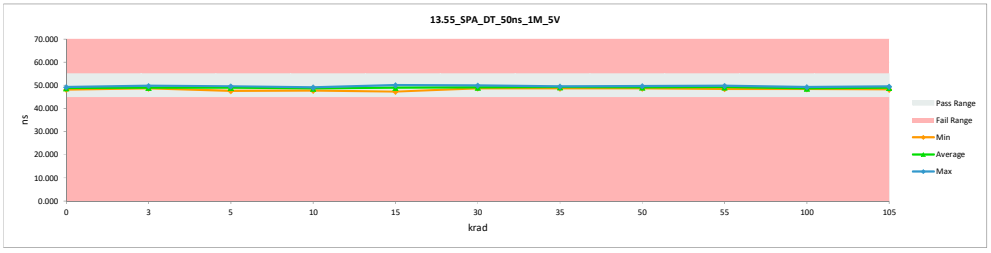
	13.55_SPA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	45

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	48.089	48.206	0.117
0	69	48.830	48.923	0.093
0	70	49.186	49.298	0.112
3	1	48.878	49.092	0.214
3	2	48.720	48.925	0.205
3	3	49.574	49.799	0.225
3	4	48.521	48.707	0.186
3	5	48.464	48.714	0.250
5	6	47.395	47.570	0.175
5	7	49.436	49.624	0.188
5	8	49.066	49.264	0.198
5	9	49.292	49.541	0.249
5	10	48.983	49.204	0.221
10	11	47.274	47.832	0.558
10	12	48.432	48.843	0.411
10	13	48.131	48.570	0.439
10	14	48.500	48.975	0.475
10	15	48.691	49.170	0.479
15	16	49.151	49.586	0.435
15	17	49.022	49.388	0.366
15	19	49.713	50.139	0.426
15	20	48.499	48.729	0.230
15	21	46.919	47.279	0.360
30	22	48.905	49.986	1.081
30	23	48.001	48.977	0.976
30	24	48.305	49.477	1.172
30	25	47.675	48.794	1.119
30	26	47.837	48.792	0.955
35	27	48.598	49.488	0.890
35	28	48.409	49.197	0.788
35	29	48.382	49.321	0.939
35	30	48.522	49.557	1.035
35	31	47.787	48.749	0.962
50	32	47.545	49.136	1.591
50	33	47.220	48.850	1.630
50	34	48.035	49.762	1.727
50	35	47.451	49.082	1.631
50	36	47.063	48.737	1.674
55	37	47.270	48.515	1.245
55	38	47.505	48.995	1.490
55	39	48.328	49.855	1.527
55	40	48.360	49.612	1.252
55	41	47.842	49.302	1.460
100	42	45.278	48.417	3.139
100	43	46.032	48.757	2.725
100	44	45.562	48.547	2.985
100	45	46.086	49.312	3.226
100	46	45.619	48.725	3.106
105	47	46.699	49.103	2.404
105	48	46.426	48.761	2.335
105	49	47.190	49.521	2.331
105	50	46.579	49.090	2.511
105	51	45.910	48.250	2.340
Max		49.713	50.139	3.226
Average		47.909	49.020	1.111
Min		45.278	47.279	0.093
Std Dev		1.102	0.566	0.930



	13.55_SPA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	55	ns
Min Limit	45	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	48.206	48.707	47.570	47.832	47.279	48.792	48.749	48.737	48.515	48.417	48.250
Average	48.809	49.047	49.041	48.678	49.024	49.205	49.262	49.113	49.256	48.752	48.945
Max	49.298	49.799	49.624	49.170	50.139	49.986	49.557	49.762	49.855	49.312	49.521
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

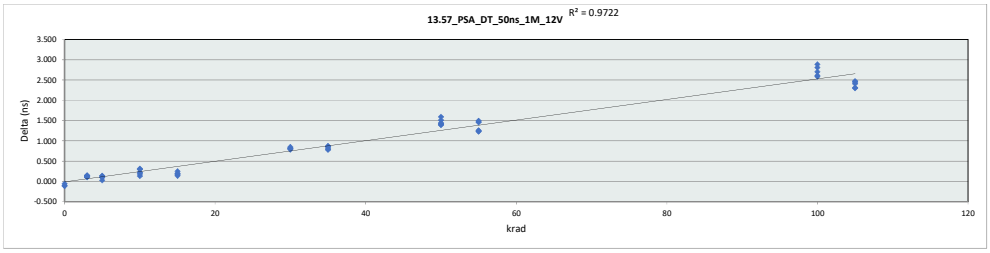


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

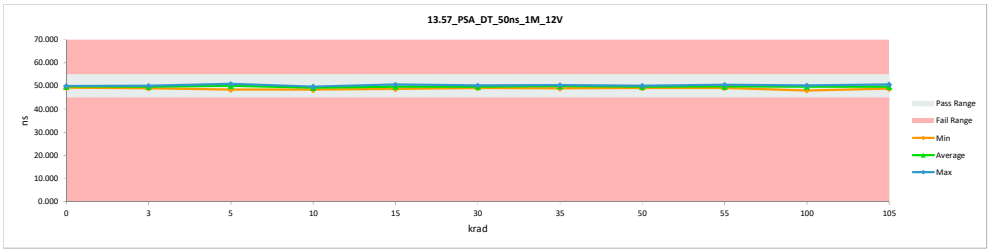
	13.57_PSA_DT_50ns_1M_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	45

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	49.334	49.230	-0.104
0	69	49.997	49.948	-0.049
0	70	50.118	50.022	-0.096
3	1	48.875	49.025	0.150
3	2	49.823	49.975	0.152
3	3	49.982	50.089	0.107
3	4	49.567	49.691	0.124
3	5	49.235	49.360	0.125
5	6	48.216	48.362	0.146
5	7	49.917	49.950	0.033
5	8	50.539	50.646	0.107
5	9	50.727	50.868	0.141
5	10	50.666	50.772	0.106
10	11	48.097	48.403	0.306
10	12	48.826	49.144	0.318
10	13	49.611	49.753	0.142
10	14	49.134	49.363	0.229
10	15	49.398	49.591	0.193
15	16	50.065	50.274	0.209
15	17	48.954	49.121	0.167
15	19	50.331	50.587	0.256
15	20	49.384	49.532	0.148
15	21	48.543	48.734	0.191
30	22	48.634	49.427	0.793
30	23	49.437	50.250	0.813
30	24	49.105	49.960	0.855
30	25	48.268	49.085	0.817
30	26	48.692	49.524	0.832
35	27	49.400	50.189	0.789
35	28	49.504	50.363	0.859
35	29	49.266	50.140	0.874
35	30	49.294	50.169	0.875
35	31	48.130	48.939	0.809
50	32	48.695	50.138	1.443
50	33	48.068	49.583	1.515
50	34	48.258	49.656	1.398
50	35	48.370	49.778	1.408
50	36	47.494	49.093	1.599
55	37	47.897	49.147	1.250
55	38	48.632	49.896	1.264
55	39	48.624	50.091	1.467
55	40	48.183	49.420	1.237
55	41	49.036	50.535	1.499
100	42	45.479	48.071	2.592
100	43	47.512	50.222	2.710
100	44	47.185	50.000	2.815
100	45	47.322	50.216	2.894
100	46	46.899	49.517	2.618
105	47	46.504	48.820	2.316
105	48	47.170	49.475	2.305
105	49	46.865	49.323	2.458
105	50	48.232	50.650	2.418
105	51	47.608	50.086	2.478
Max		50.727	50.868	2.894
Average		48.738	49.702	0.964
Min		45.479	48.071	-0.104
Std Dev		1.122	0.631	0.922



	13.57_PSA_DT_50ns_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	55	ns
Min Limit	45	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	49.230	49.025	48.362	48.403	48.734	49.085	48.939	49.093	49.147	48.071	48.820
Average	49.733	49.628	50.120	49.251	49.650	49.649	49.960	49.650	49.818	49.605	49.671
Max	50.022	50.089	50.868	49.753	50.587	50.250	50.363	50.138	50.535	50.222	50.650
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

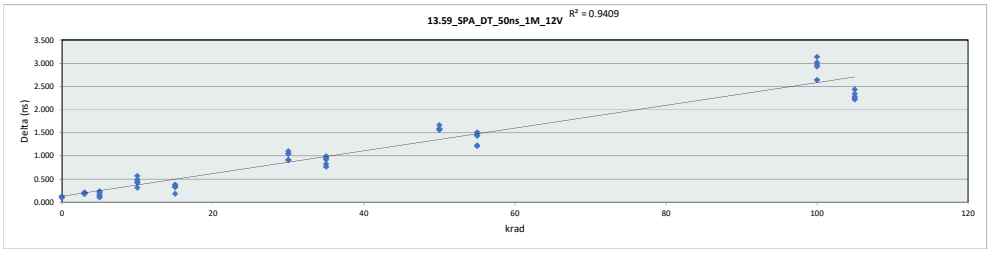


TID HDR Report
TPS7H5002-SP QMLP

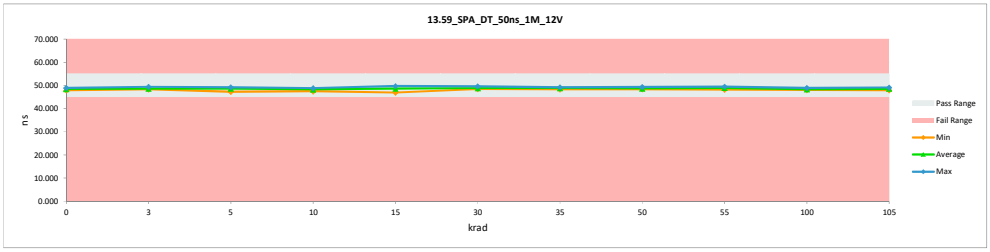
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	13.59_SPA_DT_50ns_1M_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	45

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	47.766	47.892	0.126
0	69	48.516	48.651	0.135
0	70	48.895	49.000	0.105
3	1	48.540	48.737	0.197
3	2	48.361	48.563	0.202
3	3	49.232	49.453	0.221
3	4	48.171	48.355	0.184
3	5	48.147	48.356	0.209
5	6	47.185	47.297	0.112
5	7	49.116	49.267	0.151
5	8	48.754	48.907	0.153
5	9	48.979	49.225	0.246
5	10	48.668	48.877	0.209
10	11	46.941	47.516	0.575
10	12	48.185	48.506	0.321
10	13	47.848	48.276	0.428
10	14	48.151	48.616	0.465
10	15	48.386	48.879	0.493
15	16	48.885	49.275	0.390
15	17	48.676	49.023	0.347
15	19	49.406	49.784	0.378
15	20	48.208	48.400	0.192
15	21	46.607	46.939	0.332
30	22	48.616	49.665	1.049
30	23	47.774	48.695	0.921
30	24	47.984	49.094	1.110
30	25	47.406	48.466	1.060
30	26	47.569	48.487	0.918
35	27	48.315	49.145	0.830
35	28	48.120	48.895	0.775
35	29	48.113	49.040	0.927
35	30	48.262	49.260	0.998
35	31	47.418	48.381	0.963
50	32	47.249	48.831	1.582
50	33	46.916	48.504	1.588
50	34	47.716	49.387	1.671
50	35	47.154	48.726	1.572
50	36	46.813	48.395	1.582
55	37	46.975	48.195	1.220
55	38	47.236	48.749	1.513
55	39	48.092	49.548	1.456
55	40	48.093	49.328	1.235
55	41	47.523	48.963	1.440
100	42	45.032	48.057	3.025
100	43	45.772	48.417	2.645
100	44	45.323	48.256	2.933
100	45	45.836	48.980	3.144
100	46	45.402	48.371	2.969
105	47	46.411	48.760	2.349
105	48	46.143	48.392	2.249
105	49	46.915	49.137	2.222
105	50	46.317	48.757	2.440
105	51	45.688	47.973	2.285
Max		49.406	49.784	3.144
Average		47.619	48.691	1.072
Min		45.032	46.939	0.105
Std Dev		1.082	0.561	0.907



	13.59_SPA_DT_50ns_1M_12V										
Test Site											
Tester											
Test Number											
Max Limit	55	ns									
Min Limit	45	ns									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	47.892	48.355	47.297	47.516	46.939	48.466	48.381	48.395	48.195	48.057	47.973
Average	48.514	48.693	48.715	48.359	48.684	48.881	48.944	48.769	48.957	48.416	48.604
Max	49.000	49.453	49.267	48.879	49.784	49.665	49.260	49.387	49.548	48.980	49.137
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

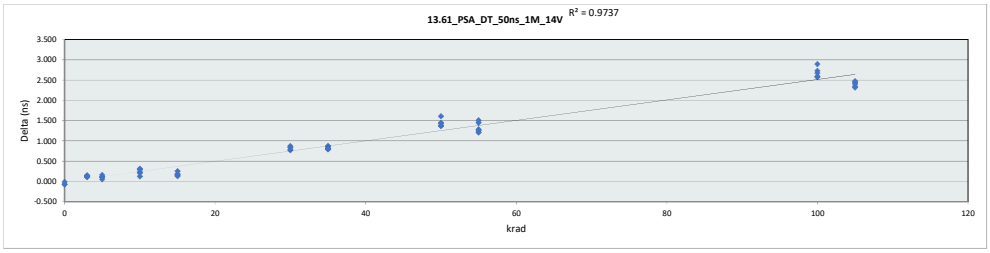


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

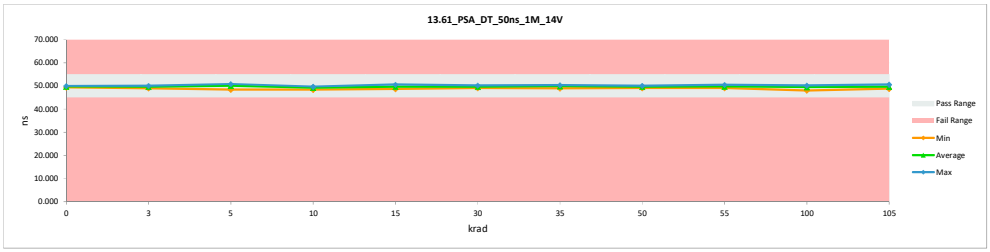
	13.61_PSA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	45

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	49.335	49.330	-0.005
0	69	49.998	49.939	-0.059
0	70	50.124	50.055	-0.069
3	1	48.865	49.019	0.154
3	2	49.828	49.968	0.140
3	3	49.961	50.112	0.151
3	4	49.574	49.697	0.123
3	5	49.236	49.348	0.112
5	6	48.206	48.372	0.166
5	7	49.905	49.964	0.059
5	8	50.539	50.651	0.112
5	9	50.727	50.855	0.128
5	10	50.672	50.780	0.108
10	11	48.078	48.396	0.318
10	12	48.843	49.077	0.234
10	13	49.616	49.748	0.132
10	14	49.113	49.412	0.299
10	15	49.383	49.599	0.216
15	16	50.064	50.252	0.188
15	17	49.003	49.152	0.149
15	19	50.350	50.612	0.262
15	20	49.391	49.529	0.138
15	21	48.531	48.707	0.176
30	22	48.630	49.406	0.776
30	23	49.399	50.241	0.842
30	24	49.085	49.940	0.855
30	25	48.280	49.075	0.795
30	26	48.682	49.563	0.881
35	27	49.384	50.183	0.799
35	28	49.525	50.344	0.819
35	29	49.266	50.143	0.877
35	30	49.305	50.171	0.866
35	31	48.123	48.942	0.819
50	32	48.692	50.133	1.441
50	33	48.117	49.570	1.453
50	34	48.261	49.648	1.387
50	35	48.388	49.760	1.372
50	36	47.491	49.103	1.612
55	37	47.885	49.144	1.259
55	38	48.644	49.934	1.290
55	39	48.602	50.055	1.453
55	40	48.195	49.410	1.215
55	41	49.037	50.550	1.513
100	42	45.485	48.066	2.581
100	43	47.516	50.197	2.681
100	44	47.180	49.914	2.734
100	45	47.311	50.209	2.898
100	46	46.891	49.486	2.595
105	47	46.496	48.841	2.345
105	48	47.177	49.500	2.323
105	49	46.860	49.309	2.449
105	50	48.229	50.639	2.410
105	51	47.609	50.088	2.479
Max		50.727	50.855	2.898
Average		48.737	49.701	0.963
Min		45.485	48.066	-0.069
Std Dev		1.122	0.629	0.914



	13.61_PSA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	55	ns
Min Limit	45	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	49.330	49.019	48.372	48.396	48.707	49.075	48.942	49.103	49.144	48.066	48.841
Average	49.775	49.629	50.124	49.246	49.650	49.645	49.957	49.643	49.819	49.574	49.675
Max	50.055	50.112	50.855	49.748	50.612	50.241	50.344	50.133	50.550	50.209	50.639
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

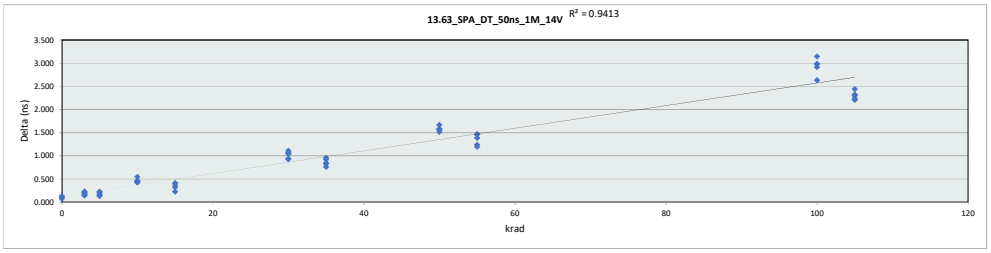


TID HDR Report
TPS7H5002-SP QMLP

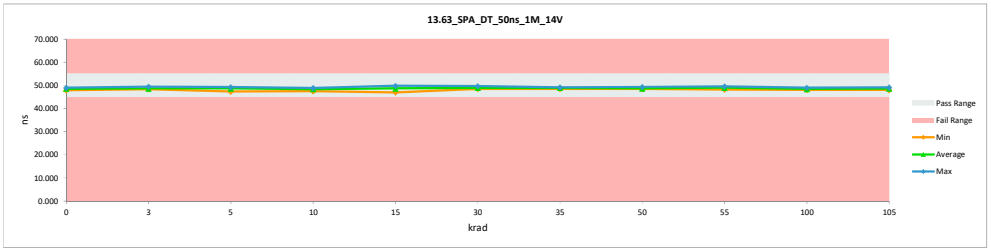
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	13.63_SPA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	45

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	47.770	47.909	0.139
0	69	48.498	48.611	0.113
0	70	48.902	48.984	0.082
3	1	48.535	48.737	0.202
3	2	48.375	48.553	0.178
3	3	49.225	49.462	0.237
3	4	48.160	48.312	0.152
3	5	48.132	48.353	0.221
5	6	47.157	47.298	0.141
5	7	49.106	49.270	0.164
5	8	48.729	48.906	0.177
5	9	48.994	49.229	0.235
5	10	48.671	48.887	0.216
10	11	46.947	47.501	0.554
10	12	48.180	48.622	0.442
10	13	47.833	48.268	0.435
10	14	48.149	48.619	0.470
10	15	48.377	48.841	0.464
15	16	48.874	49.292	0.418
15	17	48.699	49.027	0.328
15	19	49.403	49.812	0.409
15	20	48.206	48.439	0.233
15	21	46.591	46.952	0.361
30	22	48.622	49.670	1.048
30	23	47.758	48.704	0.946
30	24	47.988	49.106	1.118
30	25	47.388	48.467	1.079
30	26	47.566	48.500	0.934
35	27	48.310	49.163	0.853
35	28	48.119	48.889	0.770
35	29	48.111	49.038	0.927
35	30	48.270	49.103	0.833
35	31	47.424	48.387	0.963
50	32	47.250	48.773	1.523
50	33	46.907	48.478	1.571
50	34	47.709	49.383	1.674
50	35	47.136	48.722	1.586
50	36	46.811	48.388	1.577
55	37	46.976	48.178	1.202
55	38	47.248	48.715	1.467
55	39	48.079	49.556	1.477
55	40	48.070	49.316	1.246
55	41	47.535	48.930	1.395
100	42	45.038	48.032	2.994
100	43	45.764	48.403	2.639
100	44	45.317	48.240	2.923
100	45	45.836	48.988	3.152
100	46	45.381	48.369	2.988
105	47	46.427	48.758	2.331
105	48	46.152	48.393	2.241
105	49	46.910	49.126	2.216
105	50	46.321	48.768	2.447
105	51	45.684	47.990	2.306
Max		49.403	49.812	3.152
Average		47.615	48.687	1.072
Min		45.038	46.952	0.082
Std Dev		1.082	0.560	0.902



	13.63_SPA_DT_50ns_1M_14V										
Test Site											
Tester											
Test Number											
Max Limit	55	ns									
Min Limit	45	ns									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	47.909	48.312	47.298	47.501	46.952	48.467	48.387	48.388	48.178	48.032	47.990
Average	48.501	48.683	48.718	48.370	48.704	48.889	48.916	48.749	48.939	48.406	48.607
Max	48.984	49.462	49.270	48.841	49.812	49.670	49.163	49.383	49.556	48.988	49.126
UL	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000	55.000

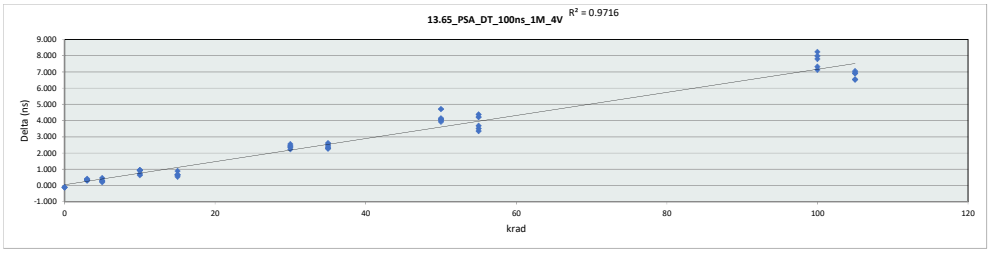


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

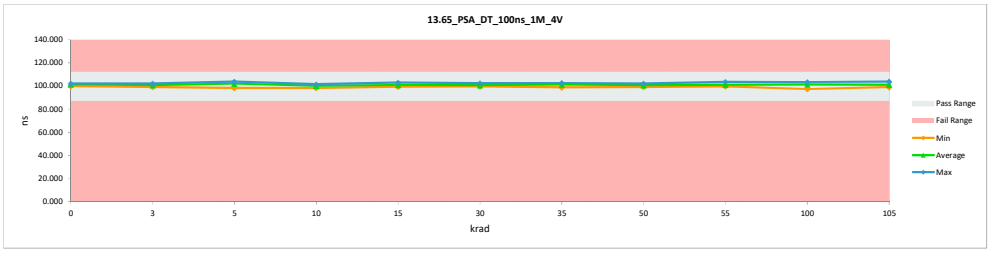
	13.65_PSA_DT_100ns_1M_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	112	112
Min Limit	85	87

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	100.106	100.000	-0.106
0	69	102.198	102.100	-0.098
0	70	102.232	102.149	-0.083
3	1	98.819	99.163	0.344
3	2	101.784	102.162	0.378
3	3	100.960	101.396	0.436
3	4	100.273	100.627	0.354
3	5	99.442	99.762	0.320
5	6	97.799	98.284	0.485
5	7	100.832	101.045	0.213
5	8	102.915	103.203	0.288
5	9	103.252	103.584	0.332
5	10	103.555	103.842	0.287
10	11	97.390	98.364	0.974
10	12	98.431	99.398	0.967
10	13	100.831	101.483	0.652
10	14	99.603	100.545	0.942
10	15	100.087	100.829	0.742
15	16	101.605	102.259	0.654
15	17	98.724	99.401	0.677
15	19	102.143	103.054	0.911
15	20	99.490	100.043	0.553
15	21	98.645	99.327	0.682
30	22	97.604	99.853	2.249
30	23	100.027	102.432	2.405
30	24	98.923	101.397	2.474
30	25	97.272	99.638	2.366
30	26	97.881	100.457	2.576
35	27	99.078	101.390	2.312
35	28	100.149	102.535	2.386
35	29	99.582	102.083	2.501
35	30	99.135	101.769	2.634
35	31	96.573	98.857	2.284
50	32	98.140	102.198	4.058
50	33	96.422	100.579	4.157
50	34	96.630	100.716	4.086
50	35	97.065	101.005	3.940
50	36	94.391	99.114	4.723
55	37	96.057	99.754	3.697
55	38	97.568	101.099	3.531
55	39	96.889	101.119	4.230
55	40	96.483	99.860	3.377
55	41	99.161	103.559	4.398
100	42	90.160	97.305	7.145
100	43	95.507	103.321	7.814
100	44	94.020	102.017	7.997
100	45	94.348	102.599	8.251
100	46	93.188	100.525	7.337
105	47	92.502	99.054	6.552
105	48	93.839	100.383	6.544
105	49	92.999	99.943	6.944
105	50	96.829	103.755	6.926
105	51	95.053	102.112	7.059
Max		103.555	103.842	8.251
Average		98.200	100.990	2.790
Min		90.160	97.305	-0.106
Std Dev		2.959	1.552	2.581



	13.65_PSA_DT_100ns_1M_4V	
Test Site		
Tester		
Test Number		
Max Limit	112	ns
Min Limit	87	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000
Min	100.000	99.163	98.284	98.364	99.327	99.638	98.857	99.114	99.754	97.305	99.054
Average	101.416	100.622	101.992	100.124	100.817	100.755	101.327	100.722	101.078	101.153	101.049
Max	102.149	102.162	103.842	101.483	103.054	102.432	102.535	102.198	103.559	103.321	103.755
UL	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000

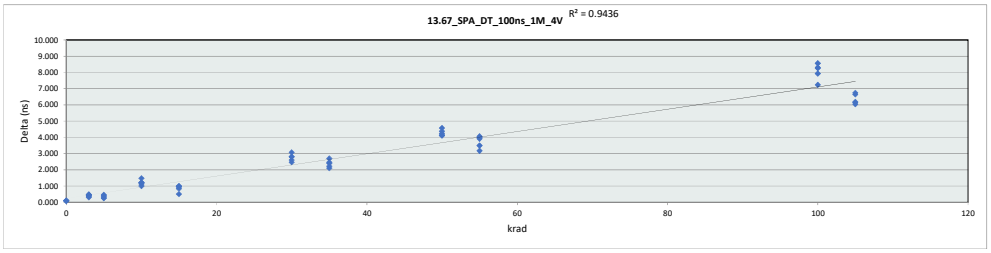


TID HDR Report
TPS7H5002-SP QMLP

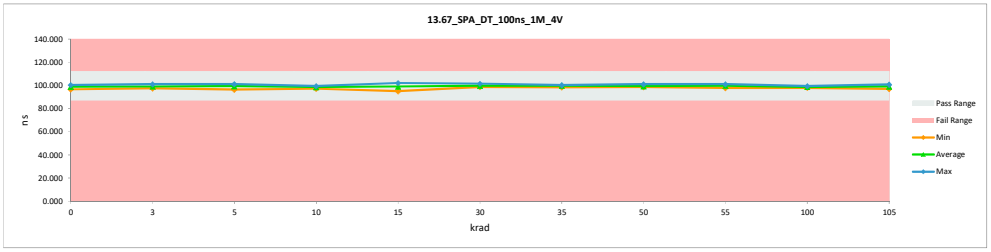
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	13.67_SPA_DT_100ns_1M_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	112	112
Min Limit	85	87

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	96.493	96.609	0.116
0	69	99.740	99.849	0.109
0	70	100.420	100.510	0.090
3	1	99.371	99.788	0.417
3	2	98.874	99.270	0.396
3	3	100.718	101.204	0.486
3	4	97.237	97.562	0.325
3	5	97.000	97.482	0.482
5	6	96.141	96.394	0.253
5	7	100.940	101.219	0.279
5	8	99.516	99.882	0.366
5	9	99.914	100.337	0.423
5	10	99.120	99.597	0.477
10	11	95.728	97.224	1.496
10	12	97.827	98.843	1.016
10	13	97.281	98.429	1.148
10	14	97.960	99.175	1.215
10	15	98.211	99.447	1.236
15	16	99.612	100.600	0.988
15	17	98.950	99.809	0.859
15	19	101.153	102.173	1.020
15	20	97.708	98.224	0.516
15	21	94.055	95.023	0.968
30	22	98.833	101.656	2.823
30	23	96.189	98.805	2.616
30	24	97.276	100.364	3.088
30	25	96.269	99.079	2.810
30	26	96.556	99.035	2.479
35	27	98.010	100.238	2.228
35	28	98.013	100.126	2.113
35	29	97.725	100.209	2.484
35	30	97.668	100.377	2.709
35	31	96.016	98.424	2.408
50	32	95.331	99.450	4.119
50	33	94.410	98.655	4.245
50	34	96.532	101.122	4.590
50	35	95.008	99.144	4.136
50	36	94.341	98.730	4.389
55	37	94.352	97.861	3.509
55	38	94.544	98.614	4.070
55	39	97.173	101.184	4.011
55	40	97.357	100.541	3.184
55	41	96.060	99.988	3.928
100	42	90.484	98.800	8.316
100	43	91.756	99.009	7.253
100	44	90.089	98.032	7.943
100	45	90.862	99.440	8.578
100	46	90.452	98.728	8.276
105	47	93.229	99.889	6.660
105	48	92.586	98.757	6.171
105	49	94.787	100.838	6.051
105	50	92.563	99.320	6.757
105	51	90.910	97.110	6.200
Max		101.153	102.173	8.578
Average		96.403	99.286	2.883
Min		90.089	95.023	0.090
Std Dev		2.903	1.397	2.529



	13.67_SPA_DT_100ns_1M_4V										
Test Site											
Tester											
Test Number											
Max Limit	112	ns									
Min Limit	87	ns									
krad	0	3	5	10	15	30	35	50	55	100	105
LL	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000	87.000
Min	96.609	97.482	96.394	97.224	95.023	98.805	98.424	98.655	97.861	98.032	97.110
Average	98.989	99.061	99.486	98.624	99.166	99.788	99.875	99.420	99.638	98.802	99.183
Max	100.510	101.204	101.219	99.447	102.173	101.656	100.377	101.122	101.184	99.440	100.838
UL	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000	112.000

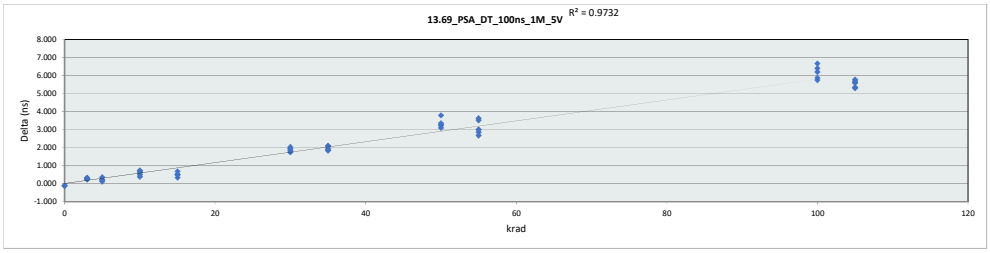


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

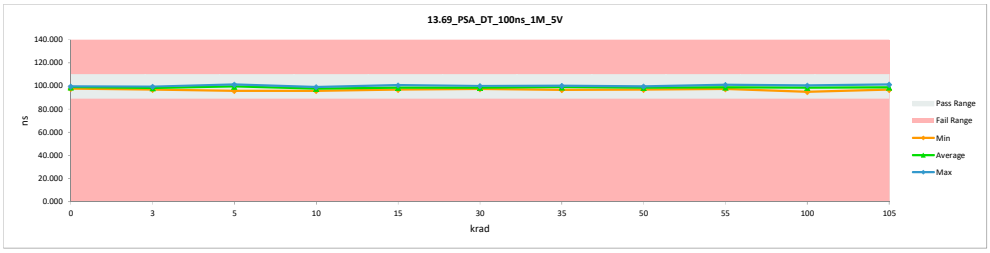
	13.69_PSA_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	89

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	97.827	97.738	-0.089
0	69	99.689	99.598	-0.091
0	70	99.744	99.631	-0.113
3	1	96.631	96.936	0.305
3	2	99.207	99.511	0.304
3	3	98.816	99.168	0.352
3	4	98.024	98.300	0.276
3	5	97.372	97.621	0.249
5	6	95.465	95.840	0.375
5	7	98.675	98.810	0.135
5	8	100.702	100.930	0.228
5	9	100.876	101.120	0.244
5	10	101.095	101.312	0.217
10	11	95.115	95.866	0.751
10	12	96.367	97.091	0.724
10	13	98.745	99.141	0.396
10	14	97.444	98.075	0.631
10	15	97.931	98.454	0.523
15	16	99.322	99.839	0.517
15	17	96.615	97.141	0.526
15	19	99.993	100.689	0.696
15	20	97.396	97.750	0.354
15	21	96.350	96.870	0.520
30	22	95.923	97.680	1.757
30	23	98.084	100.042	1.958
30	24	97.144	99.092	1.948
30	25	95.516	97.361	1.845
30	26	96.123	98.175	2.052
35	27	97.291	99.145	1.854
35	28	98.190	100.145	1.955
35	29	97.518	99.623	2.105
35	30	97.237	99.352	2.115
35	31	94.786	96.661	1.875
50	32	96.517	99.767	3.250
50	33	94.913	98.282	3.369
50	34	95.178	98.435	3.257
50	35	95.699	98.816	3.117
50	36	93.140	96.945	3.805
55	37	94.400	97.418	3.018
55	38	95.908	98.778	2.870
55	39	95.351	98.886	3.535
55	40	94.950	97.639	2.689
55	41	97.328	100.974	3.646
100	42	89.147	94.908	5.761
100	43	94.344	100.558	6.214
100	44	93.143	99.559	6.416
100	45	93.196	99.874	6.678
100	46	92.281	98.169	5.888
105	47	91.416	96.778	5.362
105	48	92.818	98.137	5.319
105	49	91.942	97.643	5.701
105	50	95.661	101.267	5.606
105	51	93.847	99.638	5.791
Max		101.095	101.312	6.678
Average		96.385	98.626	2.241
Min		89.147	94.908	-0.113
Std Dev		2.544	1.485	2.102



	13.69_PSA_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	89	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000
Min	97.738	96.936	95.840	95.866	96.870	97.361	96.661	96.945	97.418	94.908	96.778
Average	98.989	98.307	99.602	97.725	98.458	98.470	98.985	98.449	98.739	98.614	98.693
Max	99.631	99.511	101.312	99.141	100.689	100.042	100.145	99.767	100.974	100.558	101.267
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000

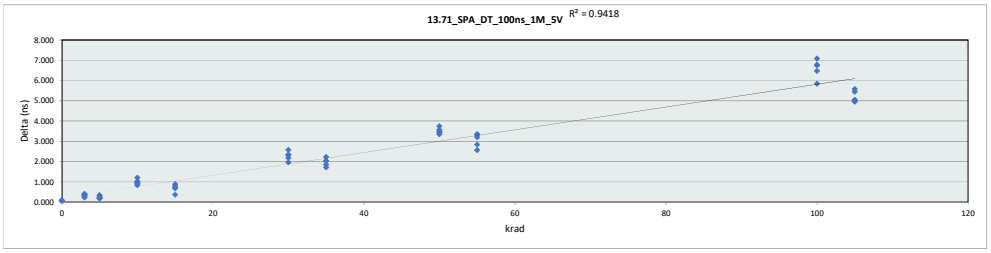


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

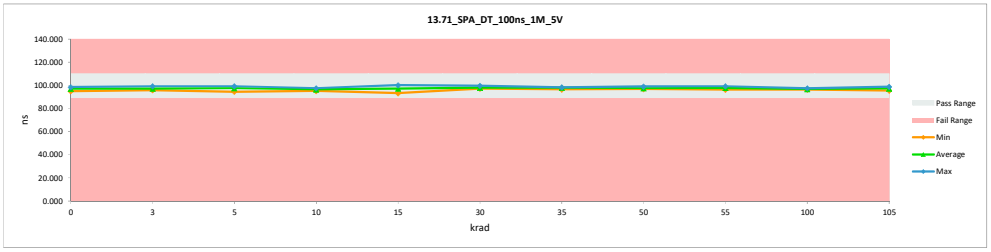
	13.71_SPA_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	89

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	94.871	94.970	0.099
0	69	97.714	97.809	0.095
0	70	98.436	98.534	0.098
3	1	97.513	97.829	0.316
3	2	97.059	97.393	0.334
3	3	98.829	99.248	0.419
3	4	95.616	95.859	0.243
3	5	95.462	95.855	0.393
5	6	94.344	94.545	0.201
5	7	99.018	99.240	0.222
5	8	97.799	98.036	0.237
5	9	98.091	98.428	0.337
5	10	97.530	97.886	0.356
10	11	93.951	95.173	1.222
10	12	96.135	96.985	0.850
10	13	95.679	96.607	0.928
10	14	96.203	97.251	1.048
10	15	96.555	97.559	1.004
15	16	97.836	98.646	0.810
15	17	97.152	97.849	0.697
15	19	99.358	100.254	0.896
15	20	96.121	96.503	0.382
15	21	92.493	93.245	0.752
30	22	97.412	99.768	2.356
30	23	95.007	97.201	2.194
30	24	95.912	98.495	2.583
30	25	94.874	97.206	2.332
30	26	95.230	97.205	1.975
35	27	96.535	98.395	1.860
35	28	96.510	98.235	1.725
35	29	96.280	98.330	2.050
35	30	96.190	98.434	2.244
35	31	94.536	96.579	2.043
50	32	94.278	97.632	3.354
50	33	93.370	96.845	3.475
50	34	95.268	99.022	3.754
50	35	94.017	97.456	3.439
50	36	93.359	96.936	3.577
55	37	93.346	96.200	2.854
55	38	93.443	96.794	3.351
55	39	95.910	99.271	3.361
55	40	96.060	98.638	2.578
55	41	94.837	98.050	3.213
100	42	89.953	96.735	6.782
100	43	91.253	97.105	5.852
100	44	89.819	96.296	6.477
100	45	90.447	97.539	7.092
100	46	90.123	96.879	6.756
105	47	92.549	98.007	5.458
105	48	91.968	96.961	4.993
105	49	93.900	98.867	4.967
105	50	92.117	97.704	5.587
105	51	90.453	95.513	5.060
Max		99.358	100.254	7.092
Average		95.070	97.434	2.364
Min		89.819	93.245	0.095
Std Dev		2.465	1.336	2.071



	13.71_SPA_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	89	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000
Min	94.970	95.855	94.545	95.173	93.245	97.201	96.579	96.845	96.200	96.296	95.513
Average	97.104	97.237	97.627	96.715	97.299	97.975	97.995	97.578	97.791	96.911	97.410
Max	98.534	99.248	99.240	97.559	100.254	99.768	98.434	99.022	99.271	97.539	98.867
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000

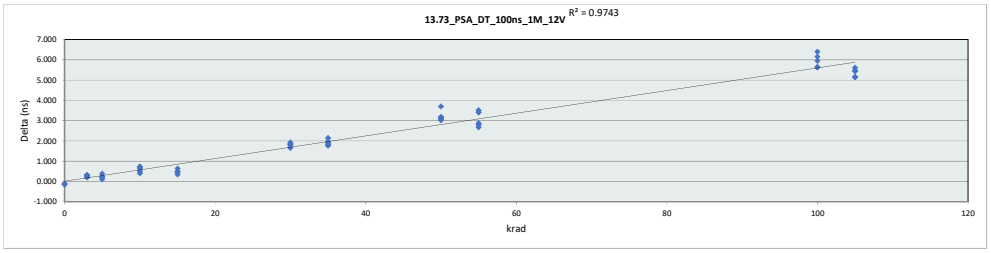


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

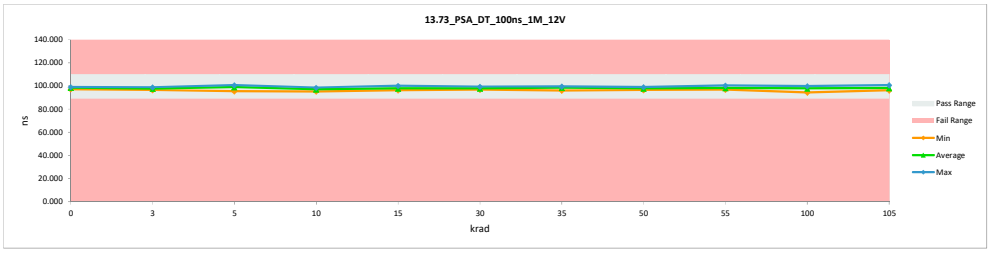
	13.73_PSA_DT_100ns_1M_12	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	89

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	97.339	97.197	-0.142
0	69	99.133	99.024	-0.109
0	70	99.231	99.131	-0.100
3	1	96.137	96.431	0.294
3	2	98.562	98.900	0.338
3	3	98.300	98.618	0.318
3	4	97.493	97.739	0.246
3	5	96.834	97.045	0.211
5	6	95.034	95.432	0.398
5	7	98.166	98.289	0.123
5	8	100.144	100.389	0.245
5	9	100.343	100.594	0.251
5	10	100.514	100.735	0.221
10	11	94.631	95.347	0.716
10	12	95.953	96.699	0.746
10	13	98.249	98.667	0.418
10	14	96.917	97.567	0.650
10	15	97.442	97.969	0.527
15	16	98.853	99.355	0.502
15	17	96.091	96.599	0.508
15	19	99.489	100.141	0.652
15	20	96.912	97.270	0.358
15	21	95.836	96.295	0.459
30	22	95.494	97.167	1.673
30	23	97.660	99.536	1.876
30	24	96.667	98.502	1.835
30	25	95.066	96.867	1.801
30	26	95.721	97.657	1.936
35	27	96.829	98.650	1.821
35	28	97.727	99.612	1.885
35	29	97.053	99.028	1.975
35	30	96.828	98.983	2.155
35	31	94.292	96.078	1.786
50	32	96.085	99.183	3.098
50	33	94.469	97.655	3.186
50	34	94.722	97.891	3.169
50	35	95.256	98.290	3.034
50	36	92.783	96.493	3.710
55	37	93.967	96.848	2.881
55	38	95.536	98.354	2.818
55	39	94.969	98.387	3.418
55	40	94.514	97.202	2.688
55	41	96.856	100.378	3.522
100	42	88.818	94.455	5.637
100	43	93.970	99.933	5.963
100	44	92.813	98.978	6.165
100	45	92.887	99.298	6.411
100	46	91.984	97.644	5.660
105	47	91.072	96.237	5.165
105	48	92.453	97.608	5.155
105	49	91.585	97.071	5.486
105	50	95.268	100.719	5.451
105	51	93.514	99.134	5.620
Max		100.514	100.735	6.411
Average		95.933	98.099	2.166
Min		88.818	94.455	-0.142
Std Dev		2.482	1.467	2.029



	13.73_PSA_DT_100ns_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	89	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000
Min	97.197	96.431	95.432	95.347	96.295	96.867	96.078	96.493	96.848	94.455	96.237
Average	98.451	97.747	99.088	97.250	97.932	97.946	98.470	97.902	98.234	98.062	98.154
Max	99.131	98.900	100.735	98.667	100.141	99.536	99.612	99.183	100.378	99.933	100.719
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000

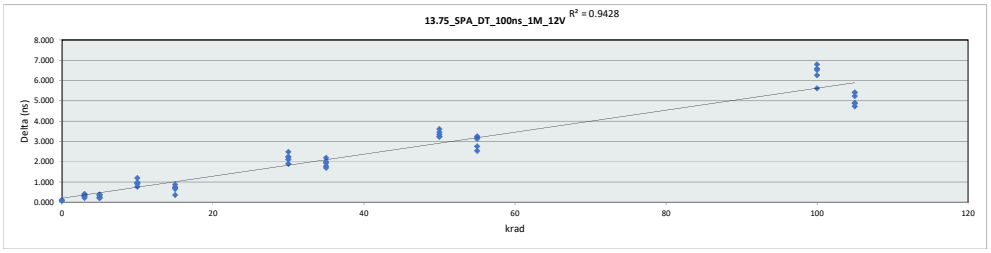


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

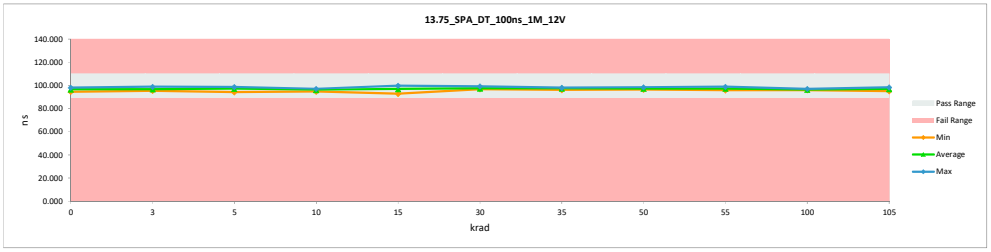
	13.75_SPA_DT_100ns_1M_12	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	89

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	94.541	94.625	0.084
0	69	97.343	97.472	0.129
0	70	98.101	98.198	0.097
3	1	97.130	97.443	0.313
3	2	96.671	96.994	0.323
3	3	98.454	98.862	0.408
3	4	95.265	95.492	0.227
3	5	95.097	95.516	0.419
5	6	94.062	94.267	0.205
5	7	98.586	98.833	0.247
5	8	97.422	97.688	0.266
5	9	97.727	98.080	0.353
5	10	97.174	97.571	0.397
10	11	93.604	94.816	1.212
10	12	95.840	96.620	0.780
10	13	95.361	96.280	0.919
10	14	95.799	96.774	0.975
10	15	96.230	97.199	0.969
15	16	97.541	98.296	0.755
15	17	96.774	97.445	0.671
15	19	99.009	99.896	0.887
15	20	95.819	96.190	0.371
15	21	92.169	92.895	0.726
30	22	97.124	99.362	2.238
30	23	94.747	96.871	2.124
30	24	95.613	98.112	2.499
30	25	94.581	96.836	2.255
30	26	94.961	96.869	1.908
35	27	96.247	98.039	1.792
35	28	96.200	97.904	1.704
35	29	95.975	97.989	2.014
35	30	95.941	98.146	2.205
35	31	94.209	96.155	1.946
50	32	94.024	97.267	3.243
50	33	93.100	96.458	3.358
50	34	94.963	98.587	3.624
50	35	93.761	97.013	3.252
50	36	93.129	96.596	3.467
55	37	93.096	95.865	2.769
55	38	93.223	96.481	3.258
55	39	95.658	98.906	3.248
55	40	95.752	98.299	2.547
55	41	94.558	97.694	3.136
100	42	89.769	96.363	6.594
100	43	91.074	96.700	5.626
100	44	89.680	95.955	6.275
100	45	90.346	97.159	6.813
100	46	89.956	96.493	6.537
105	47	92.330	97.578	5.248
105	48	91.743	96.636	4.893
105	49	93.667	98.406	4.739
105	50	91.901	97.329	5.428
105	51	90.299	95.205	4.906
Max		99.009	99.896	6.813
Average		94.780	97.070	2.290
Min		89.680	92.895	0.084
Std Dev		2.405	1.324	1.998



	13.75_SPA_DT_100ns_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	89	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000
Min	94.625	95.492	94.267	94.816	92.895	96.836	96.155	96.458	95.865	95.955	95.205
Average	96.765	96.861	97.288	96.338	96.944	97.610	97.647	97.184	97.449	96.534	97.031
Max	98.198	98.862	98.833	97.199	99.896	99.362	98.146	98.587	98.906	97.159	98.406
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000

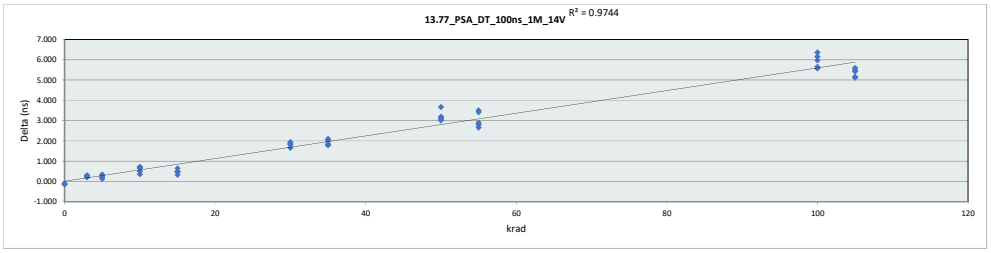


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

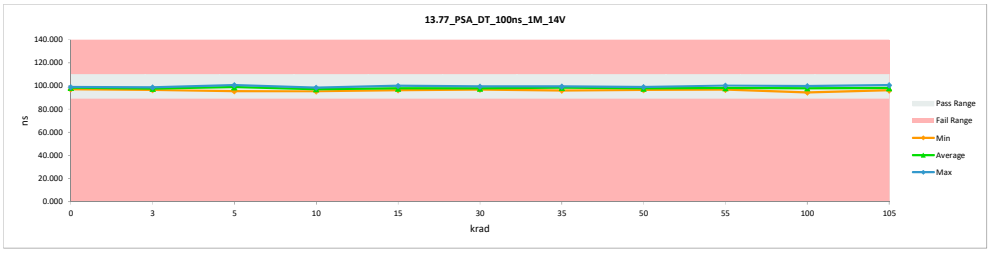
	13.77_PSA_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	89

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	97.307	97.190	-0.117
0	69	99.122	99.028	-0.094
0	70	99.242	99.117	-0.125
3	1	96.154	96.426	0.272
3	2	98.611	98.887	0.276
3	3	98.277	98.597	0.320
3	4	97.502	97.734	0.232
3	5	96.823	97.052	0.229
5	6	95.036	95.397	0.361
5	7	98.153	98.296	0.143
5	8	100.158	100.379	0.221
5	9	100.315	100.604	0.289
5	10	100.505	100.729	0.224
10	11	94.619	95.346	0.727
10	12	95.962	96.681	0.719
10	13	98.252	98.617	0.365
10	14	96.902	97.563	0.661
10	15	97.425	97.937	0.512
15	16	98.824	99.317	0.493
15	17	96.094	96.599	0.505
15	19	99.487	100.144	0.657
15	20	96.932	97.265	0.333
15	21	95.830	96.318	0.488
30	22	95.494	97.167	1.673
30	23	97.646	99.507	1.861
30	24	96.623	98.501	1.878
30	25	95.046	96.875	1.829
30	26	95.706	97.665	1.959
35	27	96.819	98.638	1.819
35	28	97.733	99.579	1.846
35	29	97.035	99.059	2.024
35	30	96.812	98.922	2.110
35	31	94.286	96.103	1.817
50	32	96.075	99.173	3.098
50	33	94.462	97.667	3.205
50	34	94.721	97.882	3.161
50	35	95.233	98.258	3.025
50	36	92.784	96.473	3.689
55	37	93.941	96.853	2.912
55	38	95.496	98.320	2.824
55	39	94.964	98.399	3.435
55	40	94.521	97.201	2.680
55	41	96.813	100.330	3.517
100	42	88.827	94.416	5.589
100	43	93.959	99.948	5.989
100	44	92.801	98.973	6.172
100	45	92.878	99.257	6.379
100	46	91.982	97.645	5.663
105	47	91.059	96.223	5.164
105	48	92.448	97.580	5.132
105	49	91.573	97.077	5.504
105	50	95.259	100.697	5.438
105	51	93.527	99.141	5.614
Max		100.505	100.729	6.379
Average		95.926	98.090	2.164
Min		88.827	94.416	-0.125
Std Dev		2.482	1.465	2.029



	13.77_PSA_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	89	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000
Min	97.190	96.426	95.397	95.346	96.318	96.875	96.103	96.473	96.853	94.416	96.223
Average	98.445	97.739	99.081	97.229	97.929	97.943	98.460	97.891	98.221	98.048	98.144
Max	99.117	98.887	100.729	98.617	100.144	99.507	99.579	99.173	100.330	99.948	100.697
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000

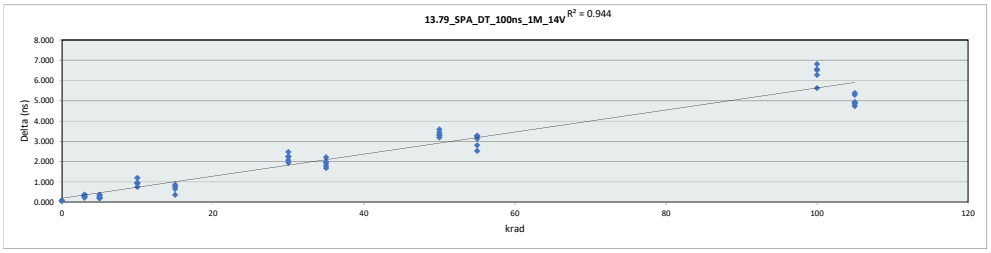


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

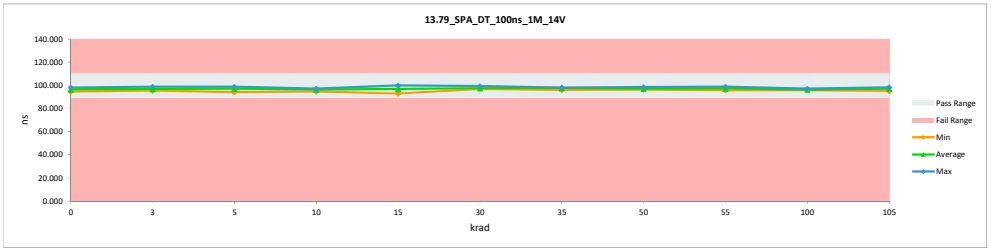
	13.79_SPA_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	89

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	94.526	94.629	0.103
0	69	97.330	97.419	0.089
0	70	98.110	98.191	0.081
3	1	97.116	97.412	0.296
3	2	96.685	96.973	0.288
3	3	98.450	98.833	0.383
3	4	95.261	95.491	0.230
3	5	95.103	95.478	0.375
5	6	94.057	94.258	0.201
5	7	98.592	98.831	0.239
5	8	97.438	97.669	0.231
5	9	97.718	98.067	0.349
5	10	97.173	97.555	0.382
10	11	93.607	94.815	1.208
10	12	95.847	96.609	0.762
10	13	95.352	96.286	0.934
10	14	95.790	96.762	0.972
10	15	96.218	97.187	0.969
15	16	97.522	98.316	0.794
15	17	96.758	97.425	0.667
15	19	98.971	99.854	0.883
15	20	95.822	96.197	0.375
15	21	92.150	92.930	0.780
30	22	97.108	99.363	2.255
30	23	94.756	96.836	2.080
30	24	95.602	98.092	2.490
30	25	94.585	96.840	2.255
30	26	94.956	96.916	1.960
35	27	96.237	98.034	1.797
35	28	96.191	97.888	1.697
35	29	95.983	97.987	2.004
35	30	95.932	98.156	2.224
35	31	94.208	96.132	1.924
50	32	94.028	97.231	3.203
50	33	93.079	96.435	3.356
50	34	94.922	98.527	3.605
50	35	93.755	97.042	3.287
50	36	93.126	96.587	3.461
55	37	93.078	95.901	2.823
55	38	93.201	96.491	3.290
55	39	95.646	98.912	3.266
55	40	95.748	98.288	2.540
55	41	94.552	97.692	3.140
100	42	89.754	96.316	6.562
100	43	91.057	96.695	5.638
100	44	89.659	95.947	6.288
100	45	90.337	97.160	6.823
100	46	89.949	96.478	6.529
105	47	92.303	97.607	5.304
105	48	91.734	96.607	4.873
105	49	93.653	98.399	4.746
105	50	91.891	97.294	5.403
105	51	90.275	95.223	4.948
	Max	98.971	99.854	6.823
	Average	94.772	97.062	2.290
	Min	89.659	92.930	0.081
	Std Dev	2.408	1.318	2.002



	13.79_SPA_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	89	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000	89.000
Min	94.629	95.478	94.258	94.815	92.930	96.836	96.132	96.435	95.901	95.947	95.223
Average	96.746	96.837	97.276	96.332	96.944	97.609	97.639	97.164	97.457	96.519	97.026
Max	98.191	98.833	98.831	97.187	99.854	99.363	98.156	98.527	98.912	97.160	98.399
UL	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000	110.000

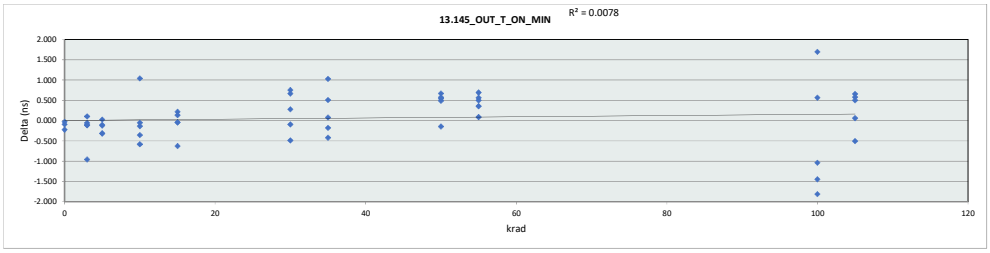


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

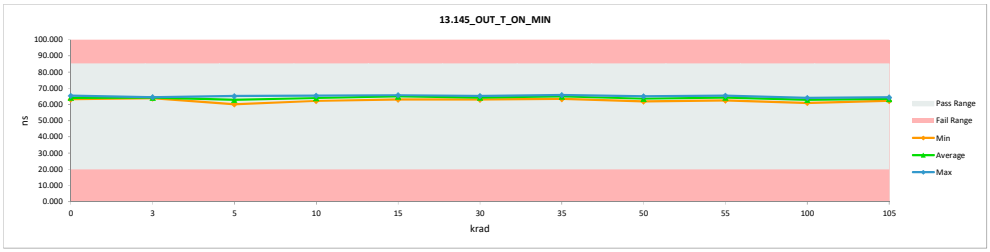
	13.145_OUT_T_ON_MIN	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	85	85
Min Limit	0	20

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	63.346	63.129	-0.217
0	69	63.817	63.795	-0.022
0	70	65.494	65.409	-0.085
3	1	64.389	64.289	-0.100
3	2	63.914	63.804	-0.110
3	3	65.530	64.579	-0.951
3	4	64.494	64.445	-0.049
3	5	63.949	64.060	0.111
5	6	63.136	62.823	-0.313
5	7	65.311	65.194	-0.117
5	8	62.304	62.206	-0.098
5	9	64.172	64.205	0.033
5	10	60.432	60.129	-0.303
10	11	64.989	64.860	-0.129
10	12	64.234	63.886	-0.348
10	13	63.372	63.328	-0.044
10	14	62.738	62.164	-0.574
10	15	64.466	65.513	1.047
15	16	65.215	65.179	-0.036
15	17	65.530	65.755	0.225
15	19	63.097	63.060	-0.037
15	20	65.072	65.215	0.143
15	21	66.284	65.662	-0.622
30	22	63.533	64.207	0.674
30	23	63.241	64.000	0.759
30	24	64.930	64.843	-0.087
30	25	65.756	65.273	-0.483
30	26	62.677	62.962	0.285
35	27	65.693	65.281	-0.412
35	28	62.396	63.430	1.034
35	29	64.740	65.255	0.515
35	30	65.975	65.803	-0.172
35	31	64.771	64.857	0.086
50	32	63.203	63.063	-0.140
50	33	62.452	62.947	0.495
50	34	64.440	65.116	0.676
50	35	61.278	61.828	0.550
50	36	64.279	64.862	0.583
55	37	62.418	62.511	0.093
55	38	64.653	65.352	0.699
55	39	64.593	64.957	0.364
55	40	64.942	65.511	0.569
55	41	62.536	63.044	0.508
100	42	64.883	63.443	-1.440
100	43	61.995	60.964	-1.031
100	44	63.737	61.934	-1.803
100	45	62.431	64.132	1.701
100	46	63.357	63.929	0.572
105	47	63.810	64.397	0.587
105	48	63.589	64.252	0.663
105	49	63.574	63.075	-0.499
105	50	61.728	62.236	0.508
105	51	63.247	63.314	0.067
Max		66.284	65.803	1.701
Average		63.889	63.952	0.063
Min		60.432	60.129	-1.803
Std Dev		1.278	1.295	0.611



	13.145_OUT_T_ON_MIN	
Test Site		
Tester		
Test Number		
Max Limit	85	ns
Min Limit	20	ns

krad	0	3	5	10	15	30	35	50	55	100	105
LL	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Min	63.129	63.804	60.129	62.164	63.060	62.962	63.430	61.828	62.511	60.964	62.236
Average	64.111	64.235	62.911	63.950	64.974	64.257	64.925	63.563	64.275	62.880	63.455
Max	65.409	64.579	65.194	65.513	65.755	65.273	65.803	65.116	65.511	64.132	64.397
UL	85.000	85.000	85.000	85.000	85.000	85.000	85.000	85.000	85.000	85.000	85.000

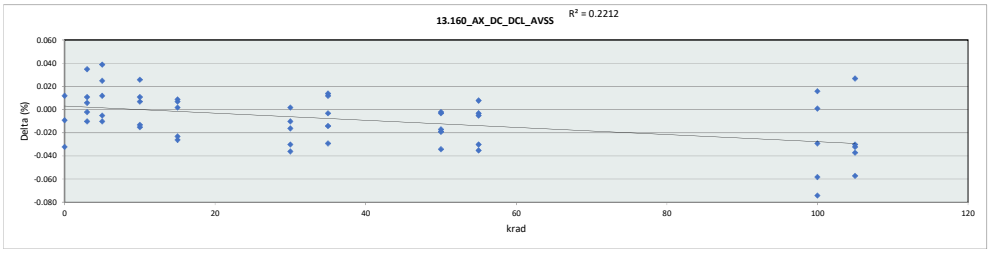


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

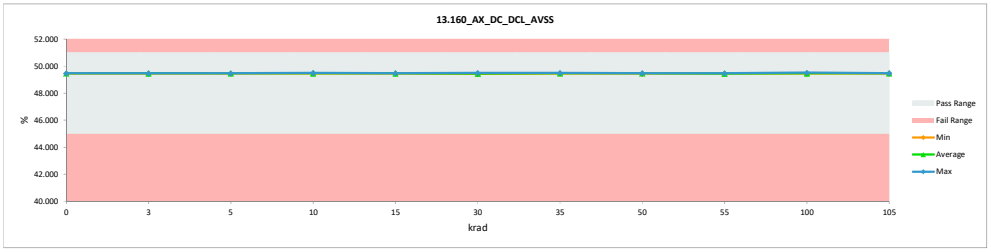
	13.160_AX_DC_DCL_AVSS	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	51	51
Min Limit	45	45

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	49.466	49.478	0.012
0	69	49.497	49.465	-0.032
0	70	49.475	49.466	-0.009
3	1	49.474	49.480	0.006
3	2	49.479	49.469	-0.010
3	3	49.446	49.481	0.035
3	4	49.467	49.478	0.011
3	5	49.467	49.465	-0.002
5	6	49.449	49.474	0.025
5	7	49.437	49.476	0.039
5	8	49.463	49.475	0.012
5	9	49.453	49.448	-0.005
5	10	49.462	49.452	-0.010
10	11	49.496	49.481	-0.015
10	12	49.486	49.493	0.007
10	13	49.471	49.497	0.026
10	14	49.454	49.465	0.011
10	15	49.487	49.474	-0.013
15	16	49.490	49.492	0.002
15	17	49.486	49.460	-0.026
15	19	49.451	49.458	0.007
15	20	49.495	49.472	-0.023
15	21	49.480	49.489	0.009
30	22	49.455	49.445	-0.010
30	23	49.511	49.495	-0.016
30	24	49.468	49.432	-0.036
30	25	49.472	49.442	-0.030
30	26	49.478	49.480	0.002
35	27	49.471	49.468	-0.003
35	28	49.478	49.449	-0.029
35	29	49.462	49.474	0.012
35	30	49.476	49.462	-0.014
35	31	49.484	49.498	0.014
50	32	49.501	49.484	-0.017
50	33	49.492	49.489	-0.003
50	34	49.495	49.461	-0.034
50	35	49.479	49.477	-0.002
50	36	49.467	49.448	-0.019
55	37	49.499	49.464	-0.035
55	38	49.483	49.478	-0.005
55	39	49.457	49.465	0.008
55	40	49.464	49.461	-0.003
55	41	49.481	49.451	-0.030
100	42	49.494	49.495	0.001
100	43	49.522	49.448	-0.074
100	44	49.520	49.491	-0.029
100	45	49.514	49.456	-0.058
100	46	49.505	49.521	0.016
105	47	49.515	49.485	-0.030
105	48	49.513	49.456	-0.057
105	49	49.455	49.482	0.027
105	50	49.503	49.471	-0.032
105	51	49.502	49.465	-0.037
Max		49.522	49.521	0.039
Average		49.480	49.471	-0.009
Min		49.437	49.432	-0.074
Std Dev		0.021	0.017	0.024



	13.160_AX_DC_DCL_AVSS	
Test Site		
Tester		
Test Number		
Max Limit	51	%
Min Limit	45	%

krad	0	3	5	10	15	30	35	50	55	100	105
LL	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000	45.000
Min	49.465	49.465	49.448	49.465	49.458	49.432	49.449	49.448	49.451	49.448	49.456
Average	49.470	49.475	49.465	49.482	49.474	49.459	49.470	49.472	49.464	49.482	49.472
Max	49.478	49.481	49.476	49.497	49.492	49.495	49.498	49.489	49.478	49.521	49.485
UL	51.000	51.000	51.000	51.000	51.000	51.000	51.000	51.000	51.000	51.000	51.000

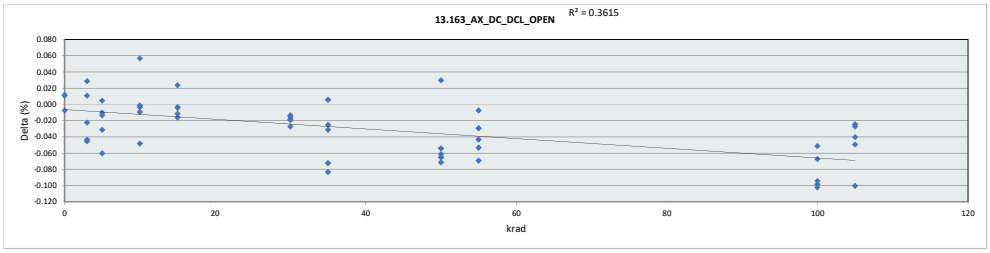


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

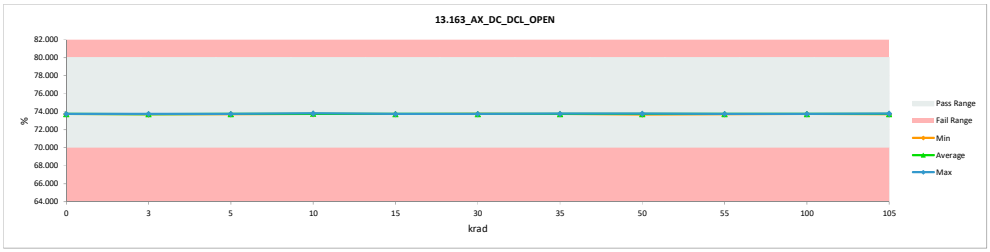
	13.163_AX_DC_DCL_OPEN	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	80	80
Min Limit	70	70

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	73.777	73.770	-0.007
0	69	73.746	73.757	0.011
0	70	73.723	73.735	0.012
3	1	73.780	73.735	-0.045
3	2	73.740	73.769	0.029
3	3	73.728	73.706	-0.022
3	4	73.758	73.715	-0.043
3	5	73.724	73.735	0.011
5	6	73.790	73.730	-0.060
5	7	73.757	73.747	-0.010
5	8	73.768	73.737	-0.031
5	9	73.763	73.750	-0.013
5	10	73.763	73.768	0.005
10	11	73.765	73.756	-0.009
10	12	73.755	73.812	0.057
10	13	73.761	73.760	-0.001
10	14	73.786	73.738	-0.048
10	15	73.751	73.748	-0.003
15	16	73.767	73.756	-0.011
15	17	73.734	73.758	0.024
15	19	73.757	73.741	-0.016
15	20	73.743	73.739	-0.004
15	21	73.759	73.756	-0.003
30	22	73.781	73.754	-0.027
30	23	73.765	73.750	-0.015
30	24	73.757	73.744	-0.013
30	25	73.791	73.773	-0.018
30	26	73.773	73.754	-0.019
35	27	73.820	73.737	-0.083
35	28	73.778	73.784	0.006
35	29	73.781	73.750	-0.031
35	30	73.769	73.744	-0.025
35	31	73.803	73.731	-0.072
50	32	73.756	73.695	-0.061
50	33	73.829	73.758	-0.071
50	34	73.765	73.795	0.030
50	35	73.806	73.741	-0.065
50	36	73.799	73.745	-0.054
55	37	73.771	73.764	-0.007
55	38	73.799	73.730	-0.069
55	39	73.781	73.752	-0.029
55	40	73.812	73.769	-0.043
55	41	73.790	73.737	-0.053
100	42	73.854	73.752	-0.102
100	43	73.805	73.738	-0.067
100	44	73.861	73.767	-0.094
100	45	73.800	73.749	-0.051
100	46	73.868	73.770	-0.098
105	47	73.763	73.739	-0.024
105	48	73.772	73.745	-0.027
105	49	73.826	73.726	-0.100
105	50	73.788	73.748	-0.040
105	51	73.839	73.790	-0.049
Max		73.868	73.812	0.057
Average		73.779	73.750	-0.029
Min		73.723	73.695	-0.102
Std Dev		0.033	0.020	0.036



	13.163_AX_DC_DCL_OPEN	
Test Site		
Tester		
Test Number		
Max Limit	80	%
Min Limit	70	%

krad	0	3	5	10	15	30	35	50	55	100	105
LL	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000	70.000
Min	73.735	73.706	73.730	73.738	73.739	73.744	73.731	73.695	73.730	73.738	73.726
Average	73.754	73.732	73.746	73.763	73.750	73.755	73.749	73.747	73.750	73.755	73.750
Max	73.770	73.769	73.768	73.812	73.758	73.773	73.784	73.795	73.769	73.770	73.790
UL	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000

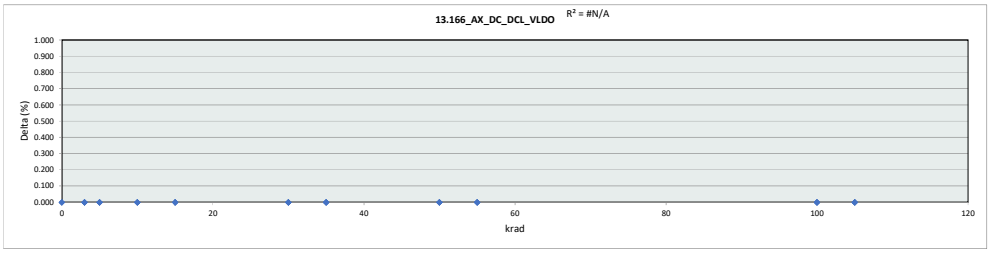


TID HDR Report
TPS7H5002-SP QMLP

krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

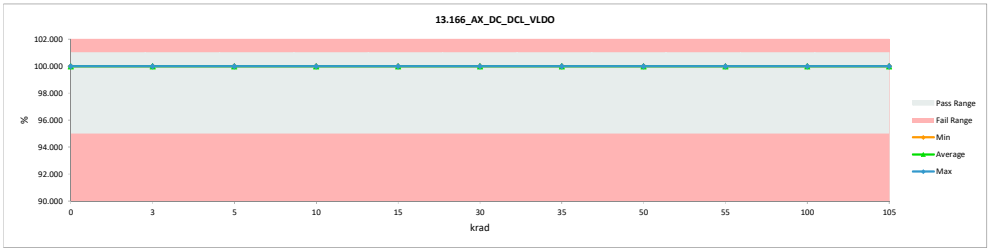
	13.166_AX_DC_DCL_VLDO	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	101	101
Min Limit	95	95

krad	Serial #	Post_HDR	PreHDR	Delta
0	68	100.000	100.000	0.000
0	69	100.000	100.000	0.000
0	70	100.000	100.000	0.000
3	1	100.000	100.000	0.000
3	2	100.000	100.000	0.000
3	3	100.000	100.000	0.000
3	4	100.000	100.000	0.000
3	5	100.000	100.000	0.000
5	6	100.000	100.000	0.000
5	7	100.000	100.000	0.000
5	8	100.000	100.000	0.000
5	9	100.000	100.000	0.000
5	10	100.000	100.000	0.000
10	11	100.000	100.000	0.000
10	12	100.000	100.000	0.000
10	13	100.000	100.000	0.000
10	14	100.000	100.000	0.000
10	15	100.000	100.000	0.000
15	16	100.000	100.000	0.000
15	17	100.000	100.000	0.000
15	19	100.000	100.000	0.000
15	20	100.000	100.000	0.000
15	21	100.000	100.000	0.000
30	22	100.000	100.000	0.000
30	23	100.000	100.000	0.000
30	24	100.000	100.000	0.000
30	25	100.000	100.000	0.000
30	26	100.000	100.000	0.000
35	27	100.000	100.000	0.000
35	28	100.000	100.000	0.000
35	29	100.000	100.000	0.000
35	30	100.000	100.000	0.000
35	31	100.000	100.000	0.000
50	32	100.000	100.000	0.000
50	33	100.000	100.000	0.000
50	34	100.000	100.000	0.000
50	35	100.000	100.000	0.000
50	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
100	42	100.000	100.000	0.000
100	43	100.000	100.000	0.000
100	44	100.000	100.000	0.000
100	45	100.000	100.000	0.000
100	46	100.000	100.000	0.000
105	47	100.000	100.000	0.000
105	48	100.000	100.000	0.000
105	49	100.000	100.000	0.000
105	50	100.000	100.000	0.000
105	51	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	101	%
Min Limit	95	%

krad	0	3	5	10	15	30	35	50	55	100	105
LL	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000
Min	100.000	100.000	100.000	100.000	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	100.000	100.000	100.000	100.000
Max	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
UL	101.000	101.000	101.000	101.000	101.000	101.000	101.000	101.000	101.000	101.000	101.000



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