Radiation Report

TPS7H5003-SP QMLP Total Ionizing Dose (TID) Report

ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for TPS7H5003-SP QMLP, Texas Instruments 4-V to 14-V radiation-tolerant, current mode, single output PWM controller optimized for DC-DC converters in space applications. 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 TPS7H5003-SP QMLP is a single output radiation-hardness-assured PWM controller that contains an integrated synchronous rectification output, optimized for DC-DC converters in space applications. The dead time and leading edge blank time are fixed at 50 ns for this device. The controller can be configured for maximum duty cycle of 75% or 100%. As such, the DCL pin can be left floating or connected to VLDO.

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Connection of the DCL pin to AVSS is not permissible for this device. The 0.613V ±1% accurate internal reference allows design of high-current buck converters for FPGA core voltages.

The TPS7H5003-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 TPS7H5003-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	TPS7H5003-SP QMLP
TI Part Name	5962R1822203PYE
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

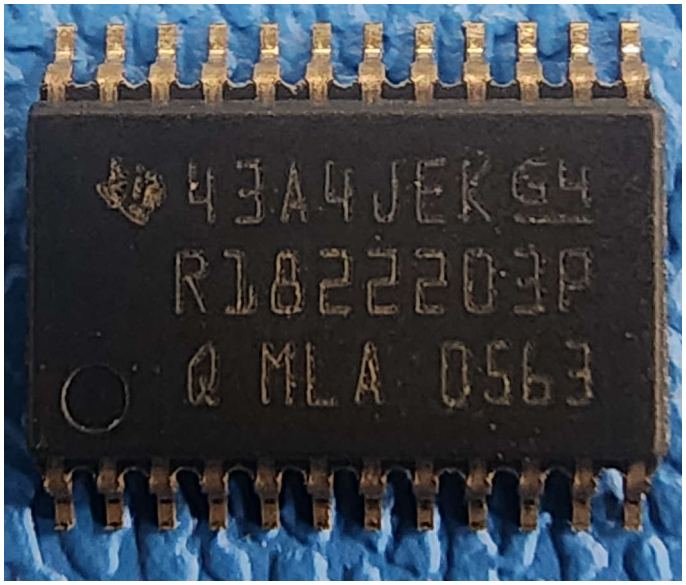

Figure 1-1. TPS7H5003-SP QMLP Device Photo

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2 Total Dose Test Setup

2.1 Test Overview

The TPS7H5003-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 TPS7H5003-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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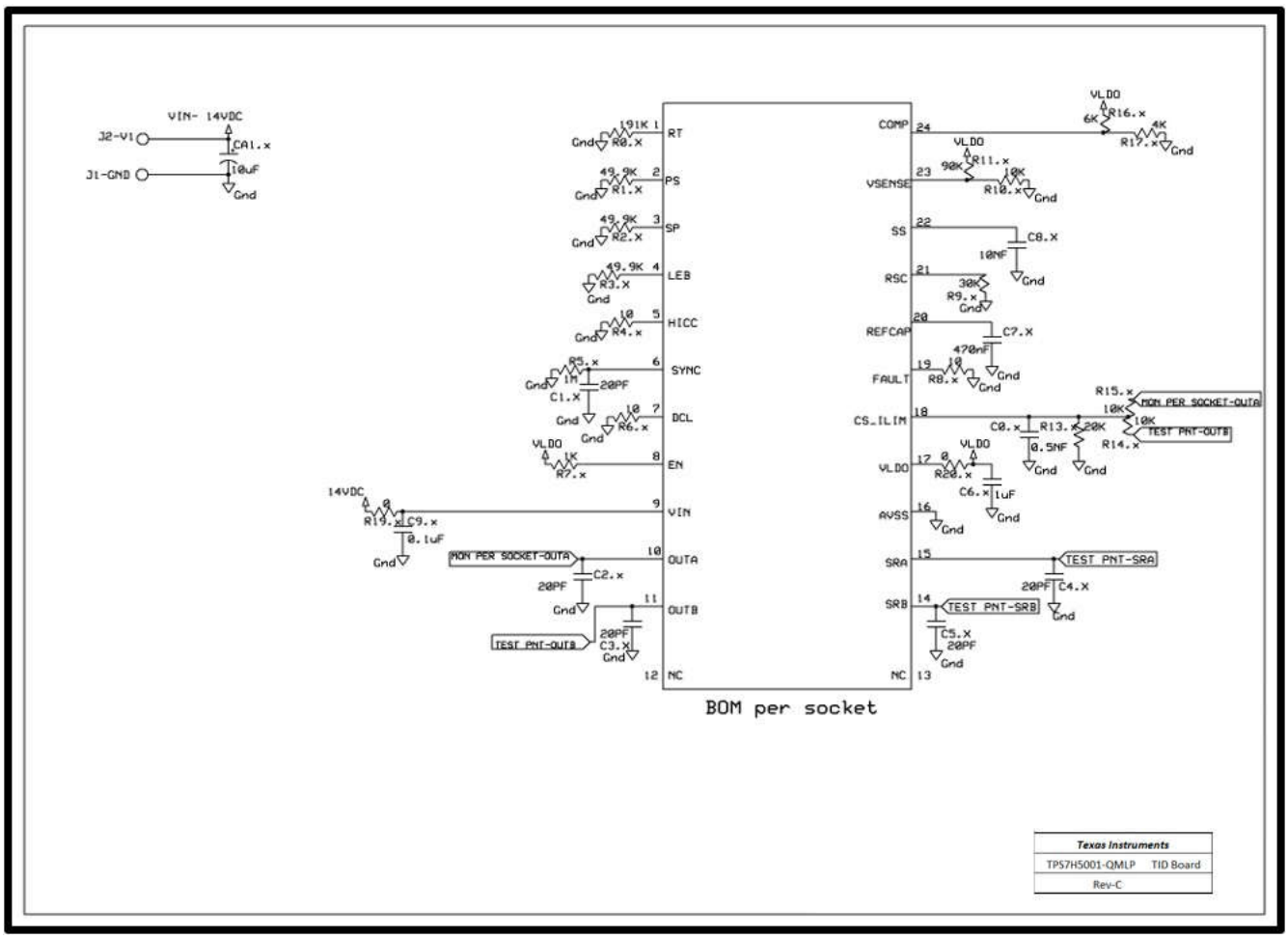

Figure 2-1. Bias Diagram Used in TID Exposure

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2.4 Test Configuration and Condition

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

Table 2-1. HDR: 3krad(Si) to 100krad(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)
770, 331, 279, 694, 337	209, 720, 327, 700, 851	119, 90, 297, 594, 586	301, 593, 374, 650, 324	265, 482, 372, 308, 438

Table 2-2. HDR: 3krad(Si) to 100krad(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)
717, 685, 360, 427, 785	498, 139, 632, 465, 500	571, 172, 375, 445, 103	152, 359, 126, 883, 117	562, 753, 547, 724, 534

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3 TID Characterization Test Results

3.1 TID Characterization Summary Results

The parametric data for the TPS7H5003-SP QMLP passes up to 100-krad(Si) HDR TID irradiation. The drifts of electrical parameters through HDR were within the data sheet limits.

Overall, the TPS7H5003-SP QMLP showed a strong degree of hardness to HDR TID irradiation up to 100krad(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 3lectrical performance characteristics specified in data sheet 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 100krad(Si).

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3.2 Specification Compliance Matrix

Table 3-1. TPS7H5003-SP QMLP Electrical Parameters Table

PARAMETER	TEST CONDITION	TPS7H5003-SP QMLP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
SUPPLY VOLTAGES AND CURRENTS						
IDD Operating supply current	f_{SW} = 500 kHz, No load for OUTA, OUTB, SRA, and SRB		6.25	8	mA	5.24 __IDD_ACT_500K_NOLOAD_4V, 5.25 __IDD_ACT_500K_NOLOAD_5V, 5.26 __IDD_ACT_500K_NOLOAD_12V, 5.27 __IDD_ACT_500K_NOLOAD_14V
	f_{SW} = 1 MHz, No load for OUTA, OUTB, SRA, and SRB		6.75	9.5	mA	5.28 __IDD_ACT_1M_NOLOAD_4V, 5.29 __IDD_ACT_1M_NOLOAD_5V, 5.30 __IDD_ACT_1M_NOLOAD_12V, 5.31 __IDD_ACT_1M_NOLOAD_14V
	f_{SW} = 2 MHz, No load for OUTA, OUTB, SRA, and SRB		8.5	13.5	mA	5.36 __IDD_ACT_2M_NOLOAD_4V, 5.37 __IDD_ACT_2M_NOLOAD_5V, 5.38 __IDD_ACT_2M_NOLOAD_12V, 5.39 __IDD_ACT_2M_NOLOAD_14V
	f_{SW} = 500 kHz, C_{LOAD} = 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} = 1 MHz, 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} = 2 MHz, 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 = 0 V			3	mA	5.1 __IDD_DIS_4V, 5.2 __IDD_DIS_5V, 5.3 __IDD_DIS_12V 5.4 __IDD_DIS_14V
VLDO Internal linear regulator output voltage	5 V ≤VIN ≤ 14 V, fsw ≤ 1 MHz	4.75	5	5.2	V	5.65 __V_LDO_100K_5V, 5.66 __V_LDO_100K_12V, 5.67 __V_LDO_100K_14V, 5.69 __V_LDO_200K_5V, 5.70 __V_LDO_200K_12V, 5.71 __V_LDO_200K_14V, 5.73 __V_LDO_500K_5V, 5.74 __V_LDO_500K_12V, 5.75 __V_LDO_500K_14V, 5.77 __V_LDO_1M_5V, 5.78 __V_LDO_1M_12V, 5.79 __V_LDO_1M_14V
	5 V ≤ VIN ≤ 14 V, fsw = 2 MHz	4.65	5	5.2	V	5.85 __V_LDO_2M_5V, 5.86 __V_LDO_2M_12V, 5.87 __V_LDO_2M_14V
ENABLE AND UNDERVOLTAGE LOCKOUT						
V_{ENR} EN threshold rising		0.57	0.6	0.65	V	6.5 __V_EN_RISE_4V, 6.8 __V_EN_RISE_5V, 6.11 __V_EN_RISE_12V, 6.14 __V_EN_RISE_14V
V_{ENF} EN threshold falling		0.47	0.5	0.55	V	6.6 __V_EN_FALL_4V, 6.9 __V_EN_FALL_5V, 6.12 __V_EN_FALL_12V, 6.15 __V_EN_FALL_14V
V_{ENH} EN hysteresis voltage		85	95	105	mV	6.7 __V_EN_HYS_4V, 6.10 __V_EN_HYS_5V, 6.13 __V_EN_HYS_12V, 6.16 __V_EN_HYS_14V
I_{EN} EN pin input leakage current	VIN = 14 V, EN = 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 = 0.3 V	1.98	2.7	3.32	µA	7.1 __I_SS_4V, 7.3 __I_SS_5V, 7.5 __I_SS_12V, 7.7 __I_SS_14V
ERROR AMPLIFIER						
EA_{gm} Transconductance	–2 µA < I_{COMP} < 2 µA, $V_{(COMP)}$ = 1 V	1150	1800	2500	µA/V	8.9 __EA_GM_4V, 8.10 __EA_GM_5V, 8.11 __EA_GM_12V, 8.12 __EA_GM_14V

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Table 3-1. TPS7H5003-SP QMLP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5003-SP QMLP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
EA_{ISRC} Error amplifier source current	$V_{(COMP)}$ = 1 V, 100-mV input overdrive	100		190	µA	8.13 __EA_I_SOURCE_4V, 8.14 __EA_I_SOURCE_5V, 8.15 __EA_I_SOURCE_12V, 8.16 __EA_I_SOURCE_14V
EA_{ISNK} Error amplifier sink current	$V_{(COMP)}$ = 1 V, 100-mV input overdrive	100		190	µA	8.17 __EA_I_SINK_4V, 8.18 __EA_I_SINK_5V, 8.19 __EA_I_SINK_12V, 8.20 __EA_I_SINK_14V
EA_{OS} Error amplifier offset voltage		–2		2	mV	8.5 __EA_OS_4V, 8.6 __EA_OS_5V, 8.7 __EA_OS_12V, 8.8 __EA_OS_14V
OSCILLATOR						
$SYNC_{RT}$ SYNC out low-to-high rise time (10%/90%)	C_{LOAD} = 25 pF		6	15	ns	9.1 __T_SYNC_RISE_100kHz_4V, 9.5 __T_SYNC_RISE_200kHz_4V, 9.9 __T_SYNC_RISE_500kHz_4V, 9.13 __T_SYNC_RISE_1MHz_4V, 9.17 __T_SYNC_RISE_1p5MHz_4V, 9.21 __T_SYNC_RISE_2MHz_4V, 9.25 __T_SYNC_RISE_100kHz_5V, 9.29 __T_SYNC_RISE_200kHz_5V, 9.33 __T_SYNC_RISE_500kHz_5V, 9.37 __T_SYNC_RISE_1MHz_5V, 9.41 __T_SYNC_RISE_1p5MHz_5V, 9.45 __T_SYNC_RISE_2MHz_5V, 9.49 __T_SYNC_RISE_100kHz_12V, 9.53 __T_SYNC_RISE_200kHz_12V, 9.57 __T_SYNC_RISE_500kHz_12V, 9.61 __T_SYNC_RISE_1MHz_12V, 9.65 __T_SYNC_RISE_1p5MHz_12V, 9.69 __T_SYNC_RISE_2MHz_12V, 9.73 __T_SYNC_RISE_100kHz_14V, 9.77 __T_SYNC_RISE_200kHz_14V, 9.81 __T_SYNC_RISE_500kHz_14V, 9.85 __T_SYNC_RISE_1MHz_14V, 9.89 __T_SYNC_RISE_1p5MHz_14V, 9.93 __T_SYNC_RISE_2MHz_14V
$SYNC_{FT}$ SYNC out high-to-low fall time (10%/90%)	C_{LOAD} = 25 pF		6	17	ns	9.2 __T_SYNC_FALL_100kHz_4V, 9.14 __T_SYNC_FALL_1MHz_4V, 9.22 __T_SYNC_FALL_2MHz_4V, 9.26 __T_SYNC_FALL_100kHz_5V, 9.38 __T_SYNC_FALL_1MHz_5V, 9.46 __T_SYNC_FALL_2MHz_5V, 9.74 __T_SYNC_FALL_100kHz_14V, 9.86 __T_SYNC_FALL_1MHz_14V, 9.94 __T_SYNC_FALL_2MHz_14V
$SYNC_{OL}$ SYNC out low level	I_{OL}= 10 mA			500	mV	9.186__SYNC_VOL_4V, 9.187__SYNC_VOL_5V, 9.188__SYNC_VOL_12V, 9.189__SYNC_VOL_14V
EXT_{DT} Externally set frequency detection time	RT = Open, f = 200 kHz			20	µs	9.185__T_SYNC_DETECT
FSW_{EXT} Externally set frequency	RT = 1.07 MΩ	95	105	115	kHz	9.4 __FSW_EXT_RT_100kHz_4V, 9.28 __FSW_EXT_RT_100kHz_5V, 9.52 __FSW_EXT_RT_100kHz_12V, 9.76 __FSW_EXT_RT_100kHz_14V
	RT = 511 kΩ	190	210	230	kHz	9.8 __FSW_EXT_RT_200kHz_4V, 9.32 __FSW_EXT_RT_200kHz_5V, 9.56 __FSW_EXT_RT_200kHz_12V, 9.80 __FSW_EXT_RT_200kHz_14V
	RT =90.9 kΩ	900	1000	1100	kHz	9.16 __FSW_EXT_RT_1MHz_4V, 9.40 __FSW_EXT_RT_1MHz_5V, 9.64 __FSW_EXT_RT_1MHz_12V, 9.88 __FSW_EXT_RT_1MHz_14V
	RT = 34.8 kΩ	1700	2000	2300	kHz	9.24 __FSW_EXT_RT_2MHz_4V, 9.48 __FSW_EXT_RT_2MHz_5V, 9.72 __FSW_EXT_RT_2MHz_12V, 9.96 __FSW_EXT_RT_2MHz_14V
VOLTAGE REFERENCE						
VREF Internal voltage reference initial tolerance	Measured at COMP, 25°C	0.609	0.613	0.615	V	8.1 __VREF_4V, 8.2 __VREF_5V, 8.3 __VREF_12V, 8.4 __VREF_14V

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Table 3-1. TPS7H5003-SP QMLP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5003-SP QMLP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
REFCAP REFCAP voltage	REFCAP = 470 nF	1.213	1.225	1.237	V	5.88 __V_REFCAP_100K_4V, 5.89 __V_REFCAP_100K_5V, 5.90 __V_REFCAP_100K_12V, 5.91 __V_REFCAP_100K_14V, 5.92 __V_REFCAP_200K_4V, 5.93 __V_REFCAP_200K_5V, 5.94 __V_REFCAP_200K_12V, 5.95 __V_REFCAP_200K_14V, 5.96 __V_REFCAP_500K_4V, 5.97 __V_REFCAP_500K_5V, 5.98 __V_REFCAP_500K_12V, 5.99 __V_REFCAP_500K_14V, 5.100__V_REFCAP_1M_4V, 5.101__V_REFCAP_1M_5V, 5.102__V_REFCAP_1M_12V, 5.103__V_REFCAP_1M_14V, 5.104__V_REFCAP_1P5M_4V, 5.105__V_REFCAP_1P5M_5V, 5.106__V_REFCAP_1P5M_12V, 5.107__V_REFCAP_1P5M_14V, 5.108__V_REFCAP_2M_4V, 5.109__V_REFCAP_2M_5V, 5.110__V_REFCAP_2M_12V, 5.111__V_REFCAP_2M_14V
CURRENT SENSE, CURRENT LIMIT, AND 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} = 1 V	0.4		1.4	µs	12.14 __T_FAULT_MIN
t_{DFLT} FLT delay duration	f_{sw} = 100 kHz	140	152	169	µs	12.15 __T_FAULT_DELAY_100kHz
	f_{sw} = 200 kHz	66	78	86	µs	12.17 __T_FAULT_DELAY_200kHz
	f_{sw} = 1 MHz	14	17	21	µs	12.21 __T_FAULT_DELAY_1MHz
	f_{sw} = 2 MHz	7	11	14	µs	12.23 __T_FAULT_DELAY_2MHz
PRIMARY AND SYNCHRONOUS RECTIFIER OUTPUTS						
Rise/fall time	R_{LOAD} = 50 kΩ, C_{LOAD} = 100 pF, 10% to 90%		10	17	ns	13.1 __OUTA_RISE_1MHz_4V, 13.9 __OUTA_RISE_1MHz_5V, 13.17 __OUTA_RISE_1MHz_12V, 13.25 __OUTA_RISE_1MHz_14V, 13.3 __OUTA_FALL_1MHz_4V, 13.11 __OUTA_FALL_1MHz_5V, 13.19 __OUTA_FALL_1MHz_12V, 13.27 __OUTA_FALL_1MHz_14V
t_{MIN} Minimum on-time	5 V ≤ VIN ≤ 14 V			115	ns	13.145__OUT_T_ON_MIN
TD_{PS} Primary off to secondary on dead time	5 V ≤ VIN ≤ 14 V, 90% of OUTx falling to 10% of SRx rising, OUTx and SRx floating	40	50	60	ns	13.53 __PSA_DT_50ns_1M_5V, 13.57 __PSA_DT_50ns_1M_12V, 13.61 __PSA_DT_50ns_1M_14V,
TD_{SP} Secondary off to primary on dead time	5 V ≤ VIN ≤ 14 V, 90% of SRx falling to 10% of OUTx rising edge, OUTx and SRx floating	40	50	60	ns	13.55 __SPA_DT_50ns_1M_5V, 13.59 __SPA_DT_50ns_1M_12V, 13.63 __SPA_DT_50ns_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 A: Specifications Requiring Clarification

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

PARAMETER	TEST CONDITION	TPS7H5003-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	TPS7H5003-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	TPS7H5003-SP QMLP DATA SHEET			
		MIN	TYP	MAX	UNIT
I_{HICC_DEL} Hiccup delay current	CS_LIM = 1.3 V, COMP = 3V, VSENSE = REFCAP/2V, 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	TPS7H5003-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	TPS7H5003-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	TPS7H5003-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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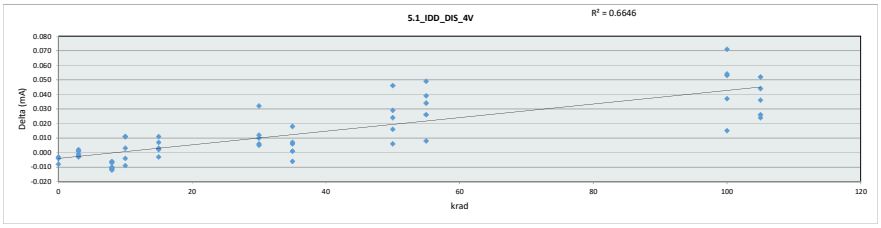
HDR TID Report
TPS7H5003-SP QMLP

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

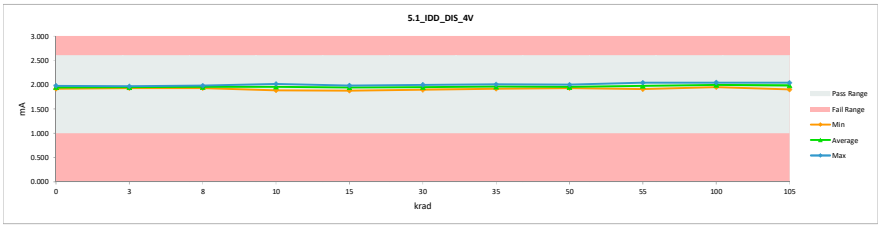
	5.1_IDD_DIS_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2.6	2.6
Min Limit	1	1

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.951	1.943	-0.008
0	236	1.981	1.977	-0.004
0	563	1.919	1.916	-0.003
3	717	1.955	1.954	-0.001
3	685	1.935	1.932	-0.003
3	360	1.936	1.937	0.001
3	427	1.959	1.957	-0.002
3	785	1.965	1.967	0.002
8	770	1.991	1.980	-0.011
8	331	1.941	1.931	-0.010
8	279	1.956	1.950	-0.006
8	694	1.991	1.979	-0.012
8	337	1.940	1.933	-0.007
10	498	2.015	2.006	-0.009
10	139	1.925	1.921	-0.004
10	632	2.004	2.015	0.011
10	465	1.874	1.885	0.011
10	500	1.965	1.968	0.003
15	209	1.967	1.970	0.003
15	720	1.949	1.946	-0.003
15	327	1.972	1.983	0.011
15	700	1.877	1.879	0.002
15	851	1.935	1.942	0.007
30	571	1.947	1.979	0.032
30	172	1.971	1.981	0.010
30	375	1.889	1.895	0.006
30	445	1.893	1.898	0.005
30	103	1.986	1.998	0.012
35	119	1.948	1.954	0.006
35	90	1.972	1.973	0.001
35	297	1.947	1.954	0.007
35	594	1.922	1.916	-0.006
35	586	1.990	2.008	0.018
50	152	1.919	1.948	0.029
50	359	1.936	1.952	0.016
50	126	1.953	1.999	0.046
50	883	1.928	1.934	0.006
50	117	1.909	1.933	0.024
55	301	1.992	2.041	0.049
55	593	1.946	1.985	0.039
55	374	1.882	1.908	0.026
55	650	1.917	1.925	0.008
55	324	1.995	2.029	0.034
100	562	1.974	1.989	0.015
100	753	1.972	2.043	0.071
100	547	1.945	1.998	0.053
100	724	1.912	1.949	0.037
100	534	1.951	2.005	0.054
105	265	1.978	2.030	0.052
105	482	1.948	1.984	0.036
105	372	1.877	1.903	0.026
105	308	2.014	2.038	0.024
105	438	1.933	1.977	0.044
	Max	2.015	2.043	0.071
	Average	1.948	1.962	0.014
	Min	1.874	1.879	-0.012
	Std Dev	0.035	0.041	0.020



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

krad	0	3	8	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	1.916	1.932	1.931	1.885	1.879	1.895	1.916	1.933	1.908	1.949	1.903
Average	1.945	1.949	1.955	1.959	1.944	1.950	1.961	1.953	1.978	1.997	1.986
Max	1.977	1.967	1.980	2.015	1.983	1.998	2.008	1.999	2.041	2.043	2.038
UL	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600

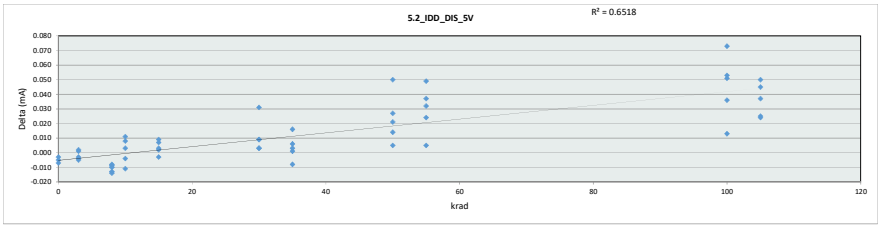


HDR TID Report
TPS7H5003-SP QMLP

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

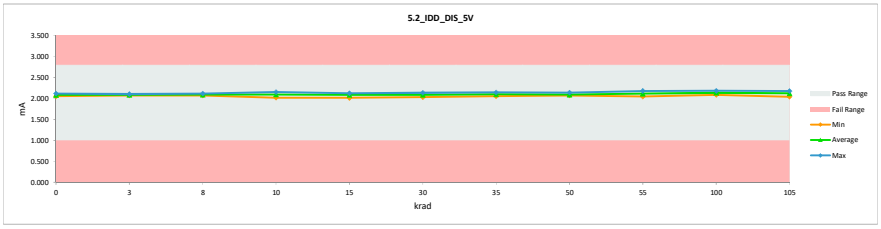
	5.2_IDD_DIS_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2.8	2.8
Min Limit	1	1

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2.094	2.087	-0.007
0	236	2.124	2.121	-0.003
0	563	2.059	2.054	-0.005
3	717	2.097	2.093	-0.004
3	685	2.075	2.072	-0.003
3	360	2.077	2.078	0.001
3	427	2.101	2.096	-0.005
3	785	2.105	2.107	0.002
8	770	2.134	2.121	-0.013
8	331	2.081	2.071	-0.010
8	279	2.099	2.091	-0.008
8	694	2.135	2.121	-0.014
8	337	2.081	2.072	-0.009
10	498	2.159	2.148	-0.011
10	139	2.065	2.061	-0.004
10	632	2.147	2.155	0.008
10	465	2.011	2.022	0.011
10	500	2.105	2.108	0.003
15	209	2.110	2.112	0.002
15	720	2.089	2.086	-0.003
15	327	2.116	2.125	0.009
15	700	2.015	2.018	0.003
15	851	2.075	2.082	0.007
30	571	2.090	2.121	0.031
30	172	2.113	2.122	0.009
30	375	2.030	2.033	0.003
30	445	2.035	2.038	0.003
30	103	2.128	2.137	0.009
35	119	2.089	2.095	0.006
35	90	2.113	2.114	0.001
35	297	2.090	2.093	0.003
35	594	2.064	2.056	-0.008
35	586	2.131	2.147	0.016
50	152	2.061	2.088	0.027
50	359	2.077	2.091	0.014
50	126	2.093	2.143	0.050
50	883	2.070	2.075	0.005
50	117	2.050	2.071	0.021
55	301	2.134	2.183	0.049
55	593	2.089	2.126	0.037
55	374	2.023	2.047	0.024
55	650	2.059	2.064	0.005
55	324	2.138	2.170	0.032
100	562	2.117	2.130	0.013
100	753	2.113	2.186	0.073
100	547	2.088	2.139	0.051
100	724	2.053	2.089	0.036
100	534	2.093	2.146	0.053
105	265	2.120	2.170	0.050
105	482	2.088	2.125	0.037
105	372	2.019	2.044	0.025
105	308	2.155	2.179	0.024
105	438	2.073	2.118	0.045
	Max	2.159	2.186	0.073
	Average	2.090	2.103	0.013
	Min	2.011	2.018	-0.014
	Std Dev	0.036	0.042	0.021



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

krad	0	3	8	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	2.054	2.072	2.071	2.022	2.018	2.033	2.056	2.071	2.047	2.089	2.044
Average	2.087	2.089	2.095	2.099	2.085	2.090	2.101	2.094	2.118	2.138	2.127
Max	2.121	2.107	2.121	2.155	2.125	2.137	2.147	2.143	2.183	2.186	2.179
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800

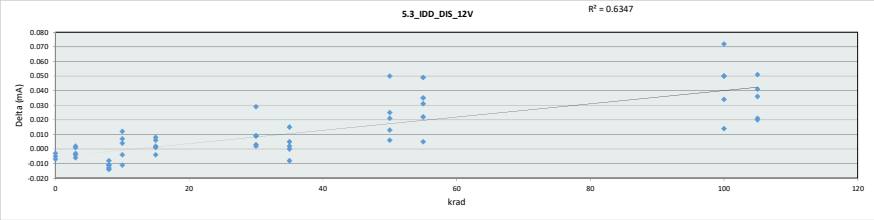


HDR TID Report
TPS7H5003-SP QMLP

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

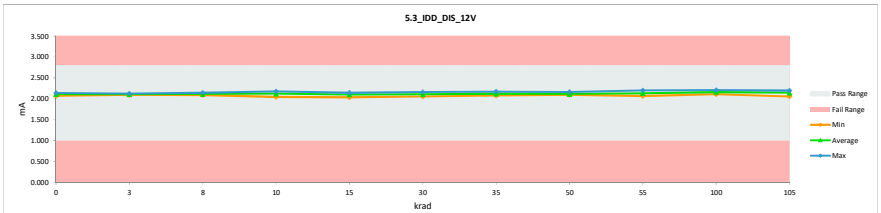
	5.3_IDD_DIS_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2.8	2.8
Min Limit	1	1

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2.111	2.104	-0.007
0	236	2.143	2.140	-0.003
0	563	2.078	2.073	-0.005
3	717	2.118	2.114	-0.004
3	685	2.094	2.091	-0.003
3	360	2.099	2.100	0.001
3	427	2.120	2.114	-0.006
3	785	2.124	2.126	0.002
8	770	2.154	2.141	-0.013
8	331	2.105	2.094	-0.011
8	279	2.116	2.108	-0.008
8	694	2.157	2.143	-0.014
8	337	2.101	2.090	-0.011
10	498	2.179	2.168	-0.011
10	139	2.093	2.089	-0.004
10	632	2.169	2.176	0.007
10	465	2.033	2.045	0.012
10	500	2.128	2.132	0.004
15	209	2.129	2.130	0.001
15	720	2.109	2.105	-0.004
15	327	2.135	2.143	0.008
15	700	2.034	2.036	0.002
15	851	2.094	2.100	0.006
30	571	2.111	2.140	0.029
30	172	2.131	2.140	0.009
30	375	2.053	2.056	0.003
30	445	2.052	2.054	0.002
30	103	2.151	2.160	0.009
35	119	2.108	2.113	0.005
35	90	2.134	2.134	0.000
35	297	2.108	2.110	0.002
35	594	2.086	2.078	-0.008
35	586	2.156	2.171	0.015
50	152	2.081	2.106	0.025
50	359	2.099	2.112	0.013
50	126	2.113	2.163	0.050
50	883	2.093	2.099	0.006
50	117	2.074	2.095	0.021
55	301	2.154	2.203	0.049
55	593	2.110	2.145	0.035
55	374	2.045	2.067	0.022
55	650	2.076	2.081	0.005
55	324	2.152	2.183	0.031
100	562	2.141	2.155	0.014
100	753	2.136	2.208	0.072
100	547	2.108	2.158	0.050
100	724	2.076	2.110	0.034
100	534	2.115	2.165	0.050
105	265	2.138	2.189	0.051
105	482	2.115	2.151	0.036
105	372	2.038	2.059	0.021
105	308	2.176	2.196	0.020
105	438	2.095	2.136	0.041
	Max	2.179	2.208	0.072
	Average	2.110	2.123	0.012
	Min	2.033	2.036	-0.014
	Std Dev	0.036	0.042	0.020



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

krad	0	3	8	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	2.073	2.091	2.090	2.045	2.036	2.054	2.078	2.095	2.067	2.110	2.059
Average	2.106	2.109	2.115	2.122	2.103	2.110	2.121	2.115	2.136	2.159	2.146
Max	2.140	2.126	2.143	2.176	2.143	2.160	2.171	2.163	2.203	2.208	2.196
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800

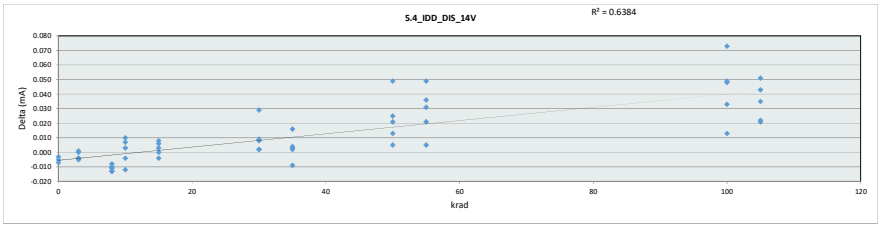


HDR TID Report
TPS7H5003-SP QMLP

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

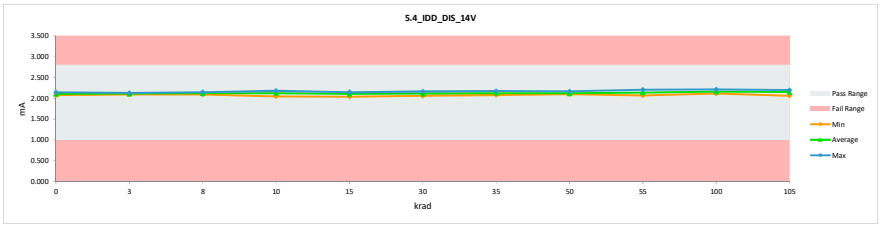
	5.4_IDD_DIS_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2.8	2.8
Min Limit	1	1

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2.115	2.108	-0.007
0	236	2.148	2.145	-0.003
0	563	2.082	2.077	-0.005
3	717	2.123	2.118	-0.005
3	685	2.099	2.095	-0.004
3	360	2.104	2.105	0.001
3	427	2.124	2.120	-0.004
3	785	2.129	2.129	0.000
8	770	2.158	2.145	-0.013
8	331	2.109	2.098	-0.011
8	279	2.121	2.113	-0.008
8	694	2.161	2.148	-0.013
8	337	2.105	2.095	-0.010
10	498	2.184	2.172	-0.012
10	139	2.097	2.093	-0.004
10	632	2.173	2.180	0.007
10	465	2.038	2.048	0.010
10	500	2.133	2.136	0.003
15	209	2.134	2.134	0.000
15	720	2.113	2.109	-0.004
15	327	2.139	2.147	0.008
15	700	2.038	2.041	0.003
15	851	2.099	2.105	0.006
30	571	2.115	2.144	0.029
30	172	2.135	2.143	0.008
30	375	2.057	2.059	0.002
30	445	2.057	2.059	0.002
30	103	2.156	2.165	0.009
35	119	2.113	2.117	0.004
35	90	2.138	2.140	0.002
35	297	2.113	2.116	0.003
35	594	2.090	2.081	-0.009
35	586	2.159	2.175	0.016
50	152	2.085	2.110	0.025
50	359	2.102	2.115	0.013
50	126	2.118	2.167	0.049
50	883	2.098	2.103	0.005
50	117	2.078	2.099	0.021
55	301	2.158	2.207	0.049
55	593	2.114	2.150	0.036
55	374	2.049	2.070	0.021
55	650	2.080	2.085	0.005
55	324	2.156	2.187	0.031
100	562	2.146	2.159	0.013
100	753	2.141	2.214	0.073
100	547	2.113	2.161	0.048
100	724	2.081	2.114	0.033
100	534	2.119	2.168	0.049
105	265	2.143	2.194	0.051
105	482	2.120	2.155	0.035
105	372	2.042	2.063	0.021
105	308	2.179	2.201	0.022
105	438	2.098	2.141	0.043
	Max	2.184	2.214	0.073
	Average	2.115	2.127	0.012
	Min	2.038	2.041	-0.013
	Std Dev	0.036	0.042	0.020



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

krad	0	3	8	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	2.077	2.095	2.095	2.048	2.041	2.059	2.081	2.099	2.070	2.114	2.063
Average	2.110	2.113	2.120	2.126	2.107	2.114	2.126	2.119	2.140	2.163	2.151
Max	2.145	2.129	2.148	2.180	2.147	2.165	2.175	2.167	2.207	2.214	2.201
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800

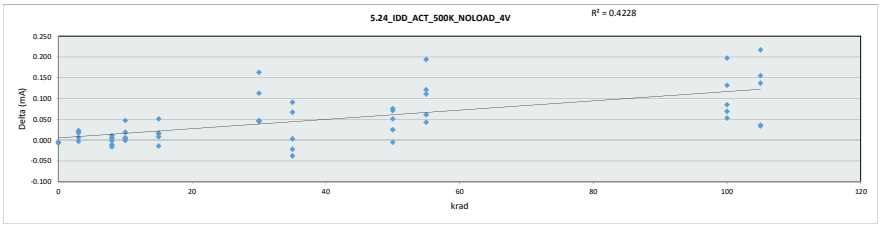


HDR TID Report
TPS7H5003-SP QMLP

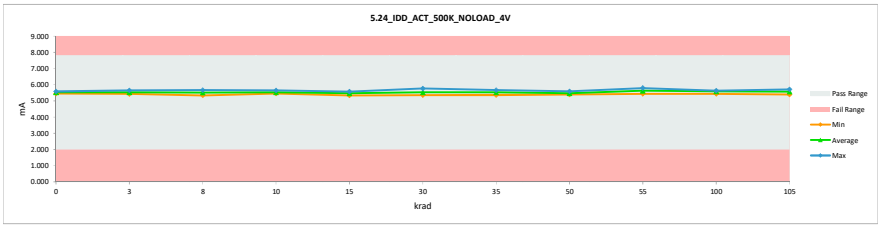
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	5.24_IDD_ACT_500K_NOLOAD_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	7.8	7.8
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.538	5.531	-0.007
0	236	5.585	5.580	-0.005
0	563	5.458	5.452	-0.006
3	717	5.488	5.509	0.021
3	685	5.429	5.426	-0.003
3	360	5.475	5.492	0.017
3	427	5.624	5.647	0.023
3	785	5.532	5.538	0.006
8	770	5.569	5.558	-0.011
8	331	5.548	5.532	-0.016
8	279	5.475	5.486	0.011
8	694	5.661	5.666	0.005
8	337	5.342	5.340	-0.002
10	498	5.606	5.605	-0.001
10	139	5.450	5.456	0.006
10	632	5.598	5.645	0.047
10	465	5.451	5.470	0.019
10	500	5.483	5.487	0.004
15	209	5.559	5.574	0.015
15	720	5.397	5.383	-0.014
15	327	5.527	5.578	0.051
15	700	5.334	5.342	0.008
15	851	5.480	5.497	0.017
30	571	5.605	5.768	0.163
30	172	5.458	5.505	0.047
30	375	5.309	5.354	0.045
30	445	5.346	5.392	0.046
30	103	5.513	5.626	0.113
35	119	5.567	5.634	0.067
35	90	5.572	5.534	-0.038
35	297	5.453	5.456	0.003
35	594	5.386	5.364	-0.022
35	586	5.569	5.660	0.091
50	152	5.383	5.434	0.051
50	359	5.395	5.390	-0.005
50	126	5.517	5.588	0.071
50	883	5.388	5.413	0.025
50	117	5.450	5.526	0.076
55	301	5.569	5.690	0.121
55	593	5.481	5.592	0.111
55	374	5.378	5.439	0.061
55	650	5.577	5.620	0.043
55	324	5.601	5.795	0.194
100	562	5.565	5.634	0.069
100	753	5.502	5.634	0.132
100	547	5.509	5.594	0.085
100	724	5.384	5.437	0.053
100	534	5.438	5.635	0.197
105	265	5.500	5.717	0.217
105	482	5.409	5.546	0.137
105	372	5.356	5.392	0.036
105	308	5.529	5.563	0.034
105	438	5.511	5.666	0.155
	Max	5.661	5.795	0.217
	Average	5.487	5.536	0.048
	Min	5.309	5.340	-0.038
	Std Dev	0.086	0.111	0.061



	5.24_IDD_ACT_500K_NOLOAD										
Test Site											
Tester											
Test Number											
Max Limit	7.8	mA									
Min Limit	2	mA									
krad	0	3	8	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	5.452	5.426	5.340	5.456	5.342	5.354	5.364	5.390	5.439	5.437	5.392
Average	5.521	5.522	5.516	5.533	5.475	5.529	5.530	5.470	5.627	5.587	5.577
Max	5.580	5.647	5.666	5.645	5.578	5.768	5.660	5.588	5.795	5.635	5.717
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

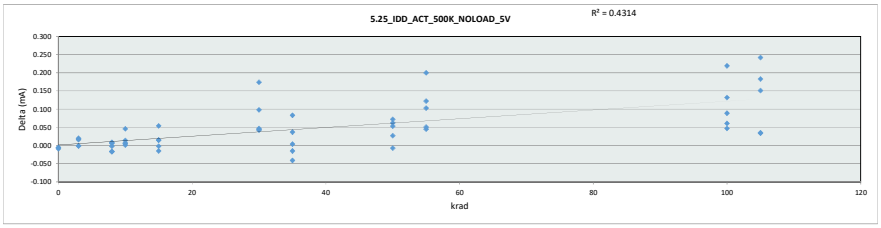


HDR TID Report
TPS7H5003-SP QMLP

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

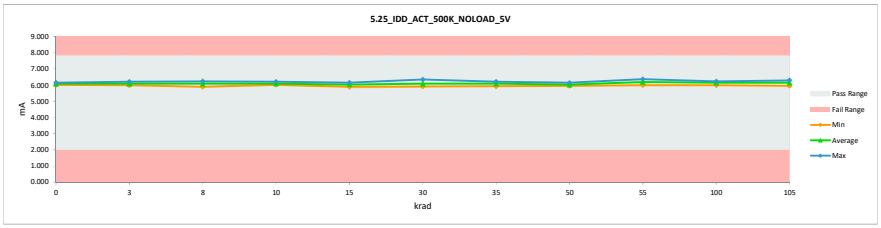
	5.25_IDD_ACT_500K_NOLOAD_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	7.8	7.8
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.101	6.092	-0.009
0	236	6.145	6.140	-0.005
0	563	6.010	6.004	-0.006
3	717	6.046	6.064	0.018
3	685	5.982	5.981	-0.001
3	360	6.032	6.048	0.016
3	427	6.184	6.204	0.020
3	785	6.095	6.094	-0.001
8	770	6.127	6.110	-0.017
8	331	6.106	6.090	-0.016
8	279	6.034	6.043	0.009
8	694	6.222	6.228	0.006
8	337	5.888	5.886	-0.002
10	498	6.160	6.161	0.001
10	139	6.010	6.015	0.005
10	632	6.152	6.198	0.046
10	465	6.007	6.021	0.014
10	500	6.035	6.042	0.007
15	209	6.114	6.129	0.015
15	720	5.953	5.938	-0.015
15	327	6.083	6.137	0.054
15	700	5.889	5.887	-0.002
15	851	6.040	6.055	0.015
30	571	6.163	6.337	0.174
30	172	6.016	6.059	0.043
30	375	5.857	5.904	0.047
30	445	5.905	5.948	0.043
30	103	6.067	6.165	0.098
35	119	6.124	6.161	0.037
35	90	6.131	6.090	-0.041
35	297	6.006	6.010	0.004
35	594	5.937	5.922	-0.015
35	586	6.124	6.207	0.083
50	152	5.936	5.989	0.053
50	359	5.951	5.944	-0.007
50	126	6.072	6.134	0.062
50	883	5.943	5.970	0.027
50	117	6.007	6.079	0.072
55	301	6.128	6.250	0.122
55	593	6.038	6.141	0.103
55	374	5.938	5.989	0.051
55	650	6.129	6.174	0.045
55	324	6.160	6.360	0.200
100	562	6.124	6.213	0.089
100	753	6.060	6.192	0.132
100	547	6.065	6.126	0.061
100	724	5.940	5.987	0.047
100	534	6.000	6.219	0.219
105	265	6.048	6.290	0.242
105	482	5.962	6.113	0.151
105	372	5.917	5.951	0.034
105	308	6.082	6.117	0.035
105	438	6.069	6.252	0.183
	Max	6.222	6.360	0.242
	Average	6.044	6.092	0.048
	Min	5.857	5.886	-0.041
	Std Dev	0.087	0.115	0.065



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

krad	0	3	8	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	6.004	5.981	5.886	6.015	5.887	5.904	5.922	5.944	5.989	5.987	5.951
Average	6.079	6.078	6.071	6.087	6.029	6.083	6.078	6.023	6.183	6.147	6.145
Max	6.140	6.204	6.228	6.198	6.137	6.337	6.207	6.134	6.360	6.219	6.290
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

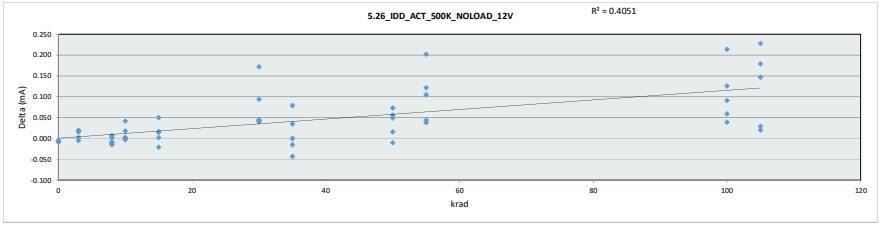


HDR TID Report
TPS7H5003-SP QMLP

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

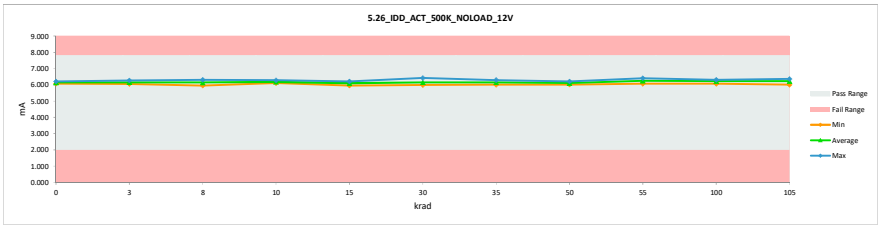
	5.26_IDD_ACT_500K_NOLOAD_12	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	7.8	7.8
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.168	6.159	-0.009
0	236	6.219	6.212	-0.007
0	563	6.084	6.079	-0.005
3	717	6.124	6.144	0.020
3	685	6.059	6.054	-0.005
3	360	6.120	6.138	0.018
3	427	6.261	6.277	0.016
3	785	6.168	6.170	0.002
8	770	6.205	6.192	-0.013
8	331	6.197	6.182	-0.015
8	279	6.105	6.112	0.007
8	694	6.311	6.313	0.002
8	337	5.963	5.955	-0.008
10	498	6.244	6.241	-0.003
10	139	6.120	6.122	0.002
10	632	6.238	6.280	0.042
10	465	6.092	6.110	0.018
10	500	6.131	6.133	0.002
15	209	6.190	6.205	0.015
15	720	6.031	6.010	-0.021
15	327	6.156	6.206	0.050
15	700	5.960	5.962	0.002
15	851	6.110	6.126	0.016
30	571	6.247	6.419	0.172
30	172	6.087	6.127	0.040
30	375	5.946	5.989	0.043
30	445	5.968	6.013	0.045
30	103	6.161	6.255	0.094
35	119	6.199	6.234	0.035
35	90	6.212	6.169	-0.043
35	297	6.079	6.079	0.000
35	594	6.019	6.004	-0.015
35	586	6.218	6.297	0.079
50	152	6.013	6.062	0.049
50	359	6.032	6.022	-0.010
50	126	6.151	6.207	0.056
50	883	6.040	6.056	0.016
50	117	6.098	6.171	0.073
55	301	6.211	6.333	0.122
55	593	6.113	6.218	0.105
55	374	6.028	6.072	0.044
55	650	6.198	6.236	0.038
55	324	6.214	6.416	0.202
100	562	6.221	6.312	0.091
100	753	6.153	6.279	0.126
100	547	6.144	6.203	0.059
100	724	6.032	6.071	0.039
100	534	6.080	6.294	0.214
105	265	6.131	6.359	0.228
105	482	6.071	6.218	0.147
105	372	5.988	6.008	0.020
105	308	6.158	6.187	0.029
105	438	6.155	6.334	0.179
	Max	6.311	6.419	0.228
	Average	6.125	6.170	0.045
	Min	5.946	5.955	-0.043
	Std Dev	0.087	0.115	0.064



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

krad	0	3	8	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	6.079	6.054	5.955	6.110	5.962	5.989	6.004	6.022	6.072	6.071	6.008
Average	6.150	6.157	6.151	6.177	6.102	6.161	6.157	6.104	6.255	6.232	6.221
Max	6.212	6.277	6.313	6.280	6.206	6.419	6.297	6.207	6.416	6.312	6.359
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

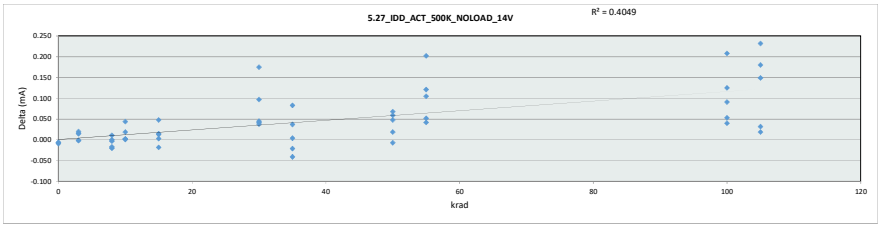


HDR TID Report
TPS7H5003-SP QMLP

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

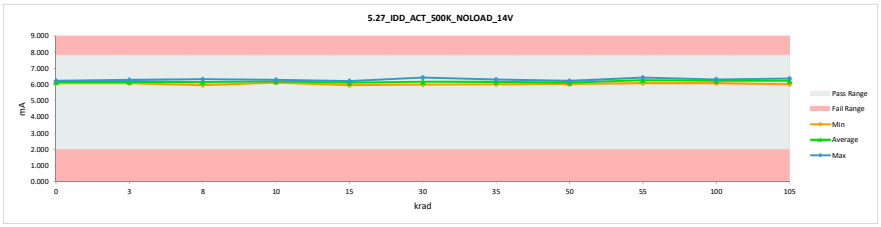
	5.27_IDD_ACT_500K_NOLOAD_14	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	7.8	7.8
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.173	6.164	-0.009
0	236	6.223	6.216	-0.007
0	563	6.088	6.082	-0.006
3	717	6.131	6.147	0.016
3	685	6.064	6.063	-0.001
3	360	6.125	6.145	0.020
3	427	6.264	6.279	0.015
3	785	6.174	6.172	-0.002
8	770	6.209	6.192	-0.017
8	331	6.202	6.182	-0.020
8	279	6.106	6.117	0.011
8	694	6.317	6.317	0.000
8	337	5.966	5.963	-0.003
10	498	6.244	6.246	0.002
10	139	6.126	6.127	0.001
10	632	6.242	6.286	0.044
10	465	6.095	6.114	0.019
10	500	6.134	6.136	0.002
15	209	6.195	6.208	0.013
15	720	6.035	6.017	-0.018
15	327	6.161	6.209	0.048
15	700	5.961	5.964	0.003
15	851	6.114	6.129	0.015
30	571	6.249	6.424	0.175
30	172	6.092	6.130	0.038
30	375	5.953	5.995	0.042
30	445	5.972	6.017	0.045
30	103	6.164	6.261	0.097
35	119	6.205	6.242	0.037
35	90	6.216	6.175	-0.041
35	297	6.083	6.087	0.004
35	594	6.028	6.007	-0.021
35	586	6.220	6.303	0.083
50	152	6.019	6.067	0.048
50	359	6.036	6.029	-0.007
50	126	6.158	6.217	0.059
50	883	6.043	6.062	0.019
50	117	6.106	6.174	0.068
55	301	6.213	6.334	0.121
55	593	6.118	6.223	0.105
55	374	6.029	6.081	0.052
55	650	6.202	6.244	0.042
55	324	6.219	6.421	0.202
100	562	6.224	6.315	0.091
100	753	6.157	6.282	0.125
100	547	6.150	6.203	0.053
100	724	6.036	6.076	0.040
100	534	6.088	6.296	0.208
105	265	6.136	6.368	0.232
105	482	6.075	6.224	0.149
105	372	5.996	6.015	0.019
105	308	6.161	6.193	0.032
105	438	6.160	6.340	0.180
	Max	6.317	6.424	0.232
	Average	6.129	6.175	0.046
	Min	5.953	5.963	-0.041
	Std Dev	0.087	0.115	0.064



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

krad	0	3	8	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	6.082	6.063	5.963	6.114	5.964	5.995	6.007	6.029	6.081	6.076	6.015
Average	6.154	6.161	6.154	6.182	6.105	6.165	6.163	6.110	6.261	6.234	6.228
Max	6.216	6.279	6.317	6.286	6.209	6.424	6.303	6.217	6.421	6.315	6.368
UL	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800	7.800

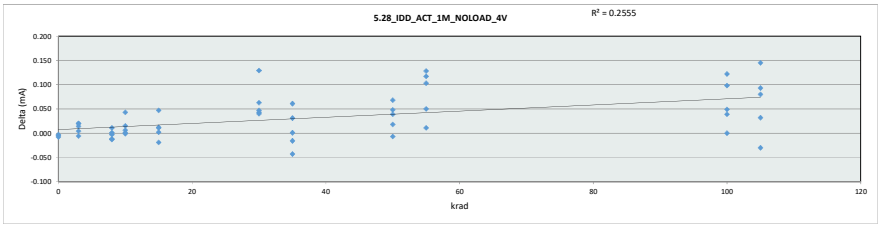


HDR TID Report
TPS7H5003-SP QMLP

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

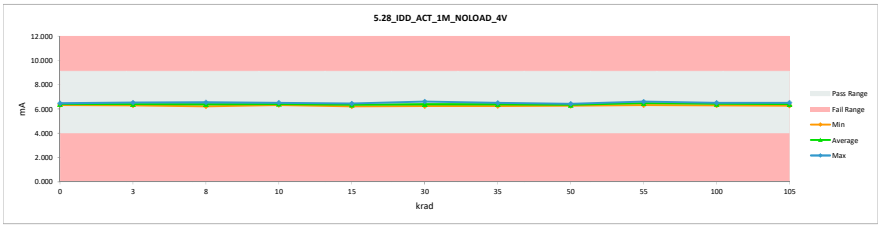
	5.28_IDD_ACT_1M_NOLOAD_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.1	9.1
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.422	6.414	-0.008
0	236	6.470	6.465	-0.005
0	563	6.330	6.327	-0.003
3	717	6.367	6.387	0.020
3	685	6.302	6.296	-0.006
3	360	6.352	6.366	0.014
3	427	6.503	6.523	0.020
3	785	6.417	6.421	0.004
8	770	6.444	6.432	-0.012
8	331	6.424	6.411	-0.013
8	279	6.353	6.364	0.011
8	694	6.545	6.546	0.001
8	337	6.217	6.214	-0.003
10	498	6.478	6.477	-0.001
10	139	6.324	6.330	0.006
10	632	6.473	6.516	0.043
10	465	6.335	6.350	0.015
10	500	6.359	6.360	0.001
15	209	6.436	6.448	0.012
15	720	6.276	6.257	-0.019
15	327	6.405	6.452	0.047
15	700	6.208	6.210	0.002
15	851	6.362	6.373	0.011
30	571	6.482	6.611	0.129
30	172	6.345	6.385	0.040
30	375	6.183	6.230	0.047
30	445	6.224	6.267	0.043
30	103	6.386	6.449	0.063
35	119	6.444	6.475	0.031
35	90	6.443	6.400	-0.043
35	297	6.327	6.328	0.001
35	594	6.262	6.246	-0.016
35	586	6.437	6.498	0.061
50	152	6.265	6.313	0.048
50	359	6.273	6.266	-0.007
50	126	6.392	6.431	0.039
50	883	6.267	6.285	0.018
50	117	6.331	6.399	0.068
55	301	6.448	6.565	0.117
55	593	6.352	6.455	0.103
55	374	6.261	6.311	0.050
55	650	6.444	6.455	0.011
55	324	6.480	6.608	0.128
100	562	6.443	6.443	0.000
100	753	6.384	6.506	0.122
100	547	6.388	6.437	0.049
100	724	6.267	6.306	0.039
100	534	6.319	6.417	0.098
105	265	6.367	6.512	0.145
105	482	6.281	6.374	0.093
105	372	6.241	6.273	0.032
105	308	6.397	6.367	-0.030
105	438	6.390	6.470	0.080
	Max	6.545	6.611	0.145
	Average	6.365	6.397	0.032
	Min	6.183	6.210	-0.043
	Std Dev	0.085	0.099	0.045



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

krad	0	3	8	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	6.327	6.296	6.214	6.330	6.210	6.230	6.246	6.266	6.311	6.306	6.273
Average	6.402	6.399	6.393	6.407	6.348	6.388	6.389	6.339	6.479	6.422	6.399
Max	6.465	6.523	6.546	6.516	6.452	6.611	6.498	6.431	6.608	6.506	6.512
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

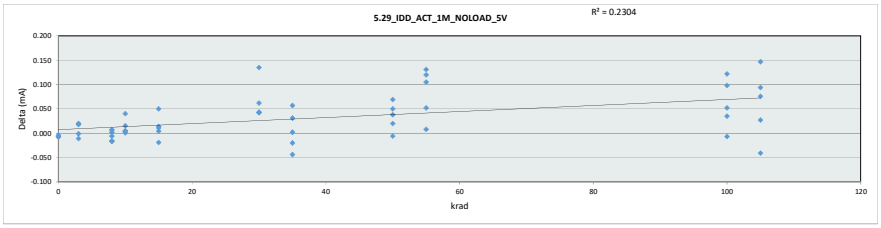


HDR TID Report
TPS7H5003-SP QMLP

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

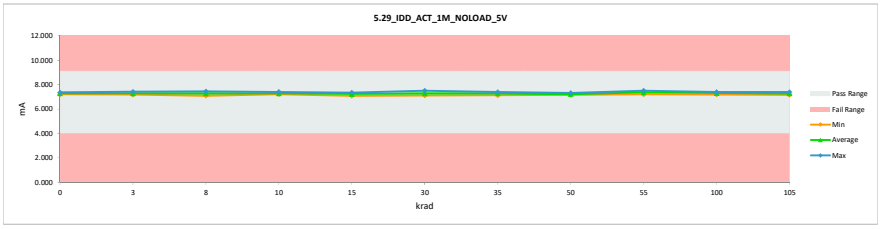
	5.29_IDD_ACT_1M_NOLOAD_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.1	9.1
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.317	7.310	-0.007
0	236	7.361	7.353	-0.008
0	563	7.212	7.208	-0.004
3	717	7.254	7.274	0.020
3	685	7.187	7.176	-0.011
3	360	7.236	7.255	0.019
3	427	7.396	7.414	0.018
3	785	7.313	7.312	-0.001
8	770	7.331	7.315	-0.016
8	331	7.316	7.299	-0.017
8	279	7.240	7.247	0.007
8	694	7.438	7.440	0.002
8	337	7.094	7.088	-0.006
10	498	7.360	7.361	0.001
10	139	7.211	7.216	0.005
10	632	7.359	7.399	0.040
10	465	7.221	7.236	0.015
10	500	7.241	7.245	0.004
15	209	7.321	7.335	0.014
15	720	7.161	7.142	-0.019
15	327	7.291	7.341	0.050
15	700	7.083	7.087	0.004
15	851	7.251	7.262	0.011
30	571	7.367	7.502	0.135
30	172	7.229	7.271	0.042
30	375	7.065	7.108	0.043
30	445	7.111	7.154	0.043
30	103	7.265	7.327	0.062
35	119	7.334	7.365	0.031
35	90	7.330	7.286	-0.044
35	297	7.210	7.212	0.002
35	594	7.146	7.126	-0.020
35	586	7.323	7.380	0.057
50	152	7.148	7.198	0.050
50	359	7.155	7.149	-0.006
50	126	7.278	7.316	0.038
50	883	7.153	7.173	0.020
50	117	7.218	7.287	0.069
55	301	7.337	7.457	0.120
55	593	7.236	7.341	0.105
55	374	7.150	7.202	0.052
55	650	7.329	7.337	0.008
55	324	7.369	7.500	0.131
100	562	7.332	7.325	-0.007
100	753	7.272	7.394	0.122
100	547	7.275	7.327	0.052
100	724	7.156	7.191	0.035
100	534	7.205	7.303	0.098
105	265	7.241	7.388	0.147
105	482	7.162	7.256	0.094
105	372	7.134	7.161	0.027
105	308	7.278	7.237	-0.041
105	438	7.279	7.355	0.076
	Max	7.438	7.502	0.147
	Average	7.251	7.282	0.031
	Min	7.065	7.087	-0.044
	Std Dev	0.087	0.101	0.046



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

krad	0	3	8	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	7.208	7.176	7.088	7.216	7.087	7.108	7.126	7.149	7.202	7.191	7.161
Average	7.290	7.286	7.278	7.291	7.233	7.272	7.274	7.225	7.367	7.308	7.279
Max	7.353	7.414	7.440	7.399	7.341	7.502	7.380	7.316	7.500	7.394	7.388
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

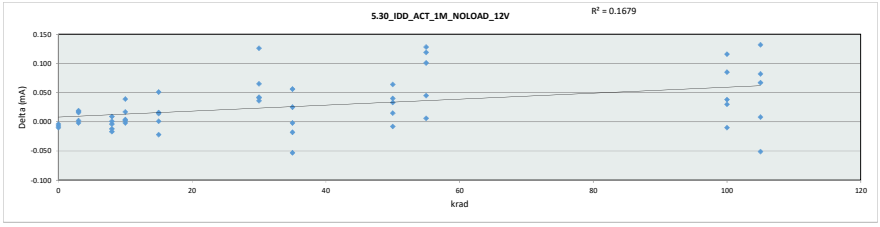


HDR TID Report
TPS7H5003-SP QMLP

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

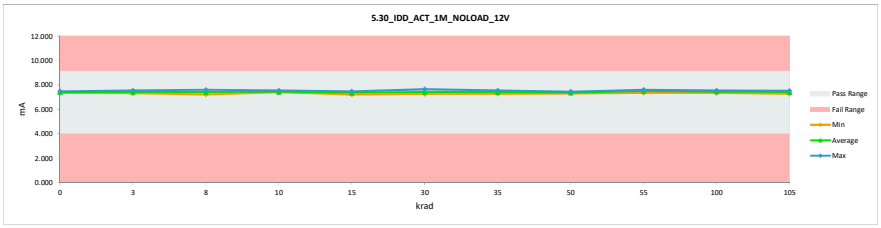
	5.30_IDD_ACT_1M_NOLOAD_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.1	9.1
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.436	7.426	-0.010
0	236	7.483	7.476	-0.007
0	563	7.341	7.337	-0.004
3	717	7.393	7.409	0.016
3	685	7.314	7.312	-0.002
3	360	7.390	7.408	0.018
3	427	7.523	7.542	0.019
3	785	7.439	7.441	0.002
8	770	7.467	7.455	-0.012
8	331	7.470	7.453	-0.017
8	279	7.356	7.365	0.009
8	694	7.583	7.584	0.001
8	337	7.219	7.215	-0.004
10	498	7.498	7.500	0.002
10	139	7.399	7.403	0.004
10	632	7.502	7.541	0.039
10	465	7.370	7.387	0.017
10	500	7.401	7.399	-0.002
15	209	7.452	7.466	0.014
15	720	7.292	7.270	-0.022
15	327	7.413	7.464	0.051
15	700	7.210	7.211	0.001
15	851	7.370	7.386	0.016
30	571	7.512	7.638	0.126
30	172	7.351	7.387	0.036
30	375	7.217	7.259	0.042
30	445	7.223	7.264	0.041
30	103	7.422	7.487	0.065
35	119	7.464	7.489	0.025
35	90	7.476	7.423	-0.053
35	297	7.334	7.332	-0.002
35	594	7.288	7.270	-0.018
35	586	7.482	7.538	0.056
50	152	7.282	7.322	0.040
50	359	7.295	7.287	-0.008
50	126	7.416	7.449	0.033
50	883	7.309	7.324	0.015
50	117	7.380	7.444	0.064
55	301	7.476	7.595	0.119
55	593	7.371	7.472	0.101
55	374	7.302	7.347	0.045
55	650	7.446	7.452	0.006
55	324	7.466	7.594	0.128
100	562	7.494	7.484	-0.010
100	753	7.425	7.541	0.116
100	547	7.413	7.451	0.038
100	724	7.303	7.333	0.030
100	534	7.348	7.433	0.085
105	265	7.381	7.513	0.132
105	482	7.340	7.422	0.082
105	372	7.262	7.270	0.008
105	308	7.412	7.361	-0.051
105	438	7.422	7.489	0.067
	Max	7.583	7.638	0.132
	Average	7.389	7.417	0.028
	Min	7.210	7.211	-0.053
	Std Dev	0.087	0.101	0.044



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

krad	0	3	8	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	7.337	7.312	7.215	7.387	7.211	7.259	7.270	7.287	7.347	7.333	7.270
Average	7.413	7.422	7.414	7.446	7.359	7.407	7.410	7.365	7.492	7.448	7.411
Max	7.476	7.542	7.584	7.541	7.466	7.638	7.538	7.449	7.595	7.541	7.513
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

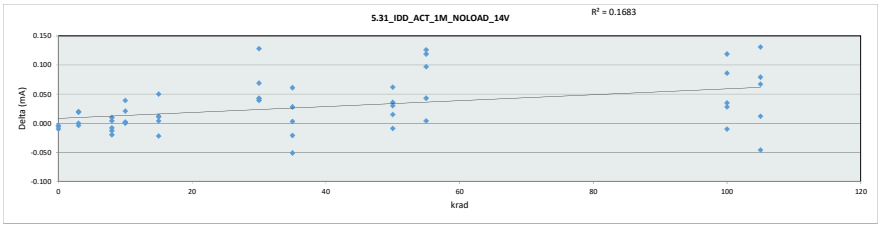


HDR TID Report
TPS7H5003-SP QMLP

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

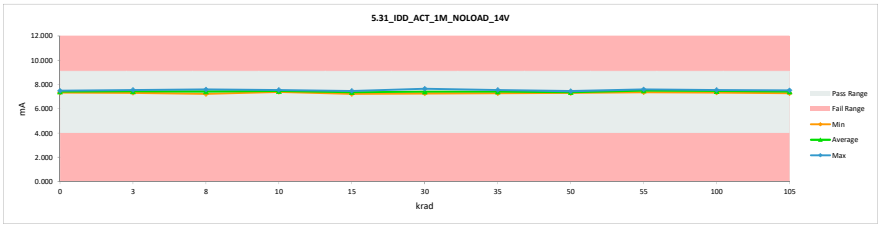
	5.31_IDD_ACT_1M_NOLOAD_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.1	9.1
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.440	7.430	-0.010
0	236	7.489	7.483	-0.006
0	563	7.343	7.339	-0.004
3	717	7.397	7.416	0.019
3	685	7.320	7.320	0.000
3	360	7.394	7.413	0.019
3	427	7.526	7.546	0.020
3	785	7.449	7.445	-0.004
8	770	7.472	7.459	-0.013
8	331	7.476	7.456	-0.020
8	279	7.362	7.372	0.010
8	694	7.586	7.590	0.004
8	337	7.226	7.218	-0.008
10	498	7.504	7.506	0.002
10	139	7.401	7.402	0.001
10	632	7.506	7.545	0.039
10	465	7.373	7.394	0.021
10	500	7.402	7.402	0.000
15	209	7.459	7.470	0.011
15	720	7.295	7.273	-0.022
15	327	7.420	7.470	0.050
15	700	7.212	7.216	0.004
15	851	7.378	7.390	0.012
30	571	7.515	7.643	0.128
30	172	7.353	7.392	0.039
30	375	7.219	7.262	0.043
30	445	7.225	7.267	0.042
30	103	7.426	7.495	0.069
35	119	7.467	7.495	0.028
35	90	7.478	7.427	-0.051
35	297	7.337	7.340	0.003
35	594	7.294	7.273	-0.021
35	586	7.485	7.546	0.061
50	152	7.286	7.322	0.036
50	359	7.300	7.291	-0.009
50	126	7.421	7.451	0.030
50	883	7.311	7.326	0.015
50	117	7.385	7.447	0.062
55	301	7.479	7.598	0.119
55	593	7.377	7.474	0.097
55	374	7.308	7.351	0.043
55	650	7.454	7.458	0.004
55	324	7.471	7.597	0.126
100	562	7.496	7.486	-0.010
100	753	7.428	7.547	0.119
100	547	7.418	7.453	0.035
100	724	7.308	7.336	0.028
100	534	7.351	7.437	0.086
105	265	7.385	7.516	0.131
105	482	7.345	7.424	0.079
105	372	7.265	7.277	0.012
105	308	7.413	7.367	-0.046
105	438	7.426	7.493	0.067
	Max	7.586	7.643	0.131
	Average	7.394	7.422	0.028
	Min	7.212	7.216	-0.051
	Std Dev	0.087	0.101	0.044



	5.31_IDD_ACT_1M_NOLOAD_1	
Test Site		
Tester		
Test Number		
Max Limit	9.1	mA
Min Limit	4	mA

krad	0	3	8	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	7.339	7.320	7.218	7.394	7.216	7.262	7.273	7.291	7.351	7.336	7.277
Average	7.417	7.428	7.419	7.450	7.364	7.412	7.416	7.367	7.496	7.452	7.415
Max	7.483	7.546	7.590	7.545	7.470	7.643	7.546	7.451	7.598	7.547	7.516
UL	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100	9.100

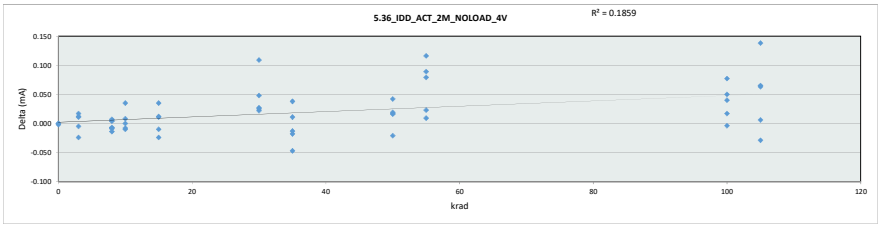


HDR TID Report
TPS7H5003-SP QMLP

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

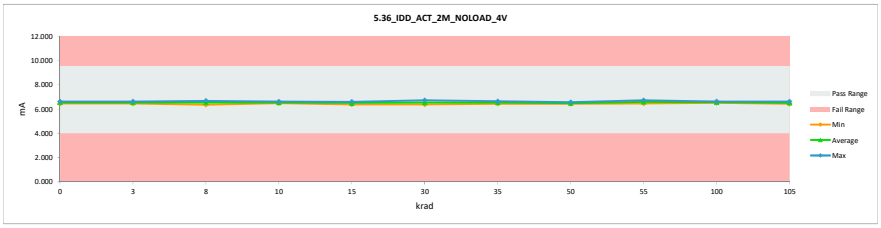
	5.36_IDD_ACT_2M_NOLOAD_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.578	6.578	0.000
0	236	6.612	6.610	-0.002
0	563	6.449	6.449	0.000
3	717	6.540	6.551	0.011
3	685	6.467	6.443	-0.024
3	360	6.529	6.546	0.017
3	427	6.606	6.618	0.012
3	785	6.576	6.571	-0.005
8	770	6.601	6.587	-0.014
8	331	6.571	6.562	-0.009
8	279	6.527	6.534	0.007
8	694	6.671	6.675	0.004
8	337	6.354	6.347	-0.007
10	498	6.589	6.589	0.000
10	139	6.487	6.477	-0.010
10	632	6.577	6.612	0.035
10	465	6.502	6.510	0.008
10	500	6.499	6.491	-0.008
15	209	6.579	6.590	0.011
15	720	6.448	6.424	-0.024
15	327	6.535	6.570	0.035
15	700	6.390	6.380	-0.010
15	851	6.532	6.544	0.012
30	571	6.609	6.718	0.109
30	172	6.500	6.522	0.022
30	375	6.353	6.380	0.027
30	445	6.426	6.451	0.025
30	103	6.535	6.583	0.048
35	119	6.578	6.589	0.011
35	90	6.569	6.522	-0.047
35	297	6.510	6.497	-0.013
35	594	6.453	6.435	-0.018
35	586	6.590	6.628	0.038
50	152	6.407	6.423	0.016
50	359	6.453	6.432	-0.021
50	126	6.550	6.569	0.019
50	883	6.462	6.479	0.017
50	117	6.482	6.524	0.042
55	301	6.584	6.673	0.089
55	593	6.489	6.568	0.079
55	374	6.437	6.460	0.023
55	650	6.542	6.551	0.009
55	324	6.603	6.719	0.116
100	562	6.620	6.616	-0.004
100	753	6.546	6.623	0.077
100	547	6.533	6.573	0.040
100	724	6.480	6.497	0.017
100	534	6.519	6.569	0.050
105	265	6.476	6.614	0.138
105	482	6.414	6.479	0.065
105	372	6.419	6.425	0.006
105	308	6.493	6.464	-0.029
105	438	6.536	6.599	0.063
	Max	6.671	6.719	0.138
	Average	6.517	6.537	0.020
	Min	6.353	6.347	-0.047
	Std Dev	0.071	0.085	0.038



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

krad	0	3	8	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	6.449	6.443	6.347	6.477	6.380	6.380	6.435	6.423	6.460	6.497	6.425
Average	6.546	6.546	6.541	6.536	6.502	6.531	6.534	6.485	6.594	6.576	6.516
Max	6.610	6.618	6.675	6.612	6.590	6.718	6.628	6.569	6.719	6.623	6.614
UL	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500

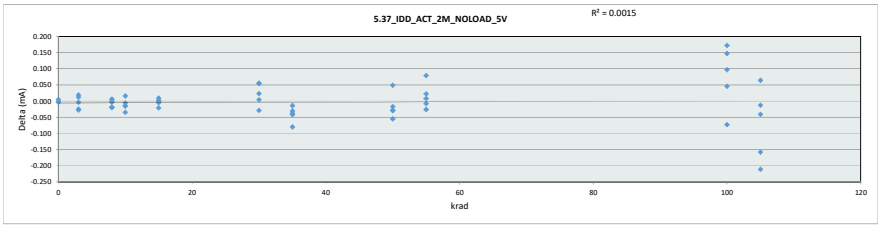


HDR TID Report
TPS7H5003-SP QMLP

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

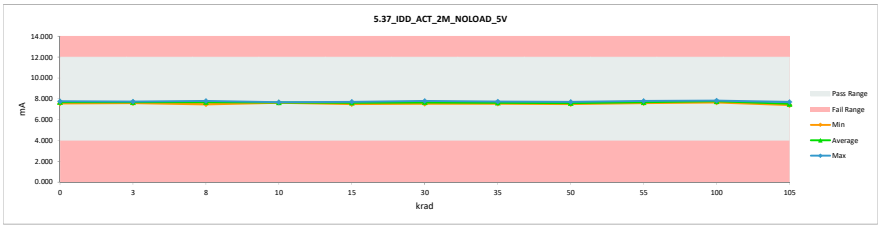
	5.37_IDD_ACT_2M_NOLOAD_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	12
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.766	7.771	0.005
0	236	7.760	7.756	-0.004
0	563	7.567	7.566	-0.001
3	717	7.696	7.715	0.019
3	685	7.613	7.588	-0.025
3	360	7.667	7.679	0.012
3	427	7.668	7.664	-0.004
3	785	7.766	7.738	-0.028
8	770	7.758	7.738	-0.020
8	331	7.728	7.725	-0.003
8	279	7.676	7.682	0.006
8	694	7.803	7.802	-0.001
8	337	7.506	7.487	-0.019
10	498	7.694	7.679	-0.015
10	139	7.630	7.624	-0.006
10	632	7.633	7.649	0.016
10	465	7.703	7.688	-0.015
10	500	7.664	7.629	-0.035
15	209	7.726	7.721	-0.005
15	720	7.598	7.577	-0.021
15	327	7.635	7.637	0.002
15	700	7.491	7.490	-0.001
15	851	7.710	7.719	0.009
30	571	7.749	7.804	0.055
30	172	7.676	7.647	-0.029
30	375	7.519	7.523	0.004
30	445	7.563	7.586	0.023
30	103	7.693	7.747	0.054
35	119	7.698	7.660	-0.038
35	90	7.702	7.622	-0.080
35	297	7.631	7.600	-0.031
35	594	7.585	7.543	-0.042
35	586	7.753	7.739	-0.014
50	152	7.543	7.488	-0.055
50	359	7.576	7.559	-0.017
50	126	7.738	7.708	-0.030
50	883	7.598	7.647	0.049
50	117	7.648	7.620	-0.028
55	301	7.722	7.744	0.022
55	593	7.630	7.638	0.008
55	374	7.628	7.602	-0.026
55	650	7.591	7.583	-0.008
55	324	7.721	7.800	0.079
100	562	7.791	7.837	0.046
100	753	7.720	7.647	-0.073
100	547	7.678	7.825	0.147
100	724	7.623	7.720	0.097
100	534	7.636	7.808	0.172
105	265	7.579	7.643	0.064
105	482	7.560	7.519	-0.041
105	372	7.611	7.400	-0.211
105	308	7.550	7.392	-0.158
105	438	7.713	7.700	-0.013
	Max	7.803	7.837	0.172
	Average	7.658	7.654	-0.004
	Min	7.491	7.392	-0.211
	Std Dev	0.077	0.103	0.059



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

krad	0	3	8	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	7.566	7.588	7.487	7.624	7.490	7.523	7.543	7.488	7.583	7.647	7.392
Average	7.698	7.677	7.687	7.654	7.629	7.661	7.633	7.604	7.673	7.767	7.531
Max	7.771	7.738	7.802	7.688	7.721	7.804	7.739	7.708	7.800	7.837	7.700
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

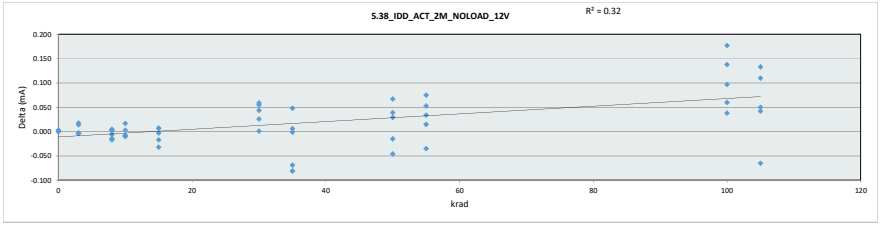


HDR TID Report
TPS7H5003-SP QMLP

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

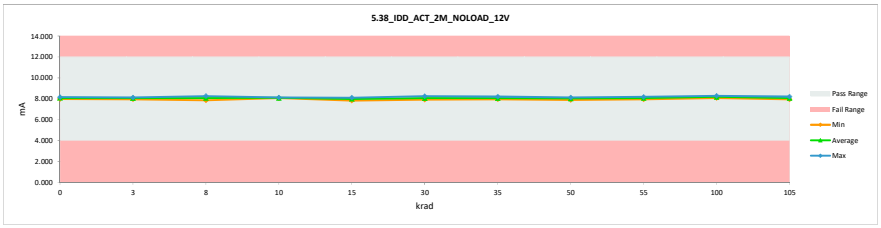
	5.38_IDD_ACT_2M_NOLOAD_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	12
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.097	8.097	0.000
0	236	8.156	8.157	0.001
0	563	7.981	7.984	0.003
3	717	8.063	8.077	0.014
3	685	7.955	7.952	-0.003
3	360	8.056	8.074	0.018
3	427	8.052	8.048	-0.004
3	785	8.125	8.122	-0.003
8	770	8.115	8.098	-0.017
8	331	8.169	8.155	-0.014
8	279	7.992	7.997	0.005
8	694	8.263	8.265	0.002
8	337	7.862	7.856	-0.006
10	498	8.132	8.123	-0.009
10	139	8.093	8.096	0.003
10	632	8.087	8.079	-0.008
10	465	8.098	8.115	0.017
10	500	8.068	8.058	-0.010
15	209	8.103	8.110	0.007
15	720	7.948	7.916	-0.032
15	327	8.051	8.034	-0.017
15	700	7.827	7.824	-0.003
15	851	8.044	8.051	0.007
30	571	8.204	8.248	0.044
30	172	8.021	8.047	0.026
30	375	7.911	7.912	0.001
30	445	7.875	7.930	0.055
30	103	8.091	8.150	0.059
35	119	8.151	8.082	-0.069
35	90	8.136	8.055	-0.081
35	297	7.962	7.968	0.006
35	594	7.958	7.957	-0.001
35	586	8.158	8.206	0.048
50	152	7.933	7.887	-0.046
50	359	7.944	7.973	0.029
50	126	8.097	8.082	-0.015
50	883	7.998	8.065	0.067
50	117	8.083	8.122	0.039
55	301	8.133	8.186	0.053
55	593	8.020	8.054	0.034
55	374	8.022	8.037	0.015
55	650	7.982	7.947	-0.035
55	324	8.061	8.136	0.075
100	562	8.208	8.246	0.038
100	753	8.113	8.290	0.177
100	547	8.069	8.166	0.097
100	724	8.023	8.083	0.060
100	534	8.007	8.145	0.138
105	265	8.012	7.947	-0.065
105	482	8.011	8.144	0.133
105	372	7.957	7.999	0.042
105	308	7.989	8.039	0.050
105	438	8.101	8.211	0.110
	Max	8.263	8.290	0.177
	Average	8.048	8.068	0.020
	Min	7.827	7.824	-0.081
	Std Dev	0.091	0.105	0.050



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

krad	0	3	8	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	7.984	7.952	7.856	8.058	7.824	7.912	7.957	7.887	7.947	8.083	7.947
Average	8.079	8.055	8.074	8.094	7.987	8.057	8.054	8.026	8.072	8.186	8.068
Max	8.157	8.122	8.265	8.123	8.110	8.248	8.206	8.122	8.186	8.290	8.211
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

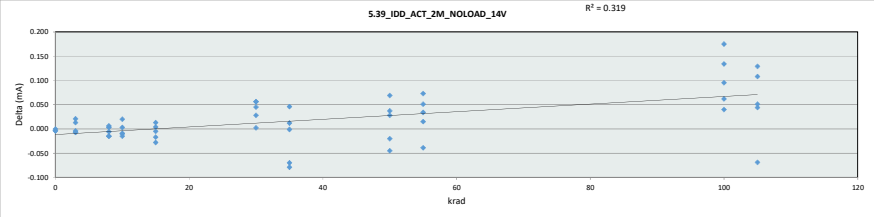


HDR TID Report
TPS7H5003-SP QMLP

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

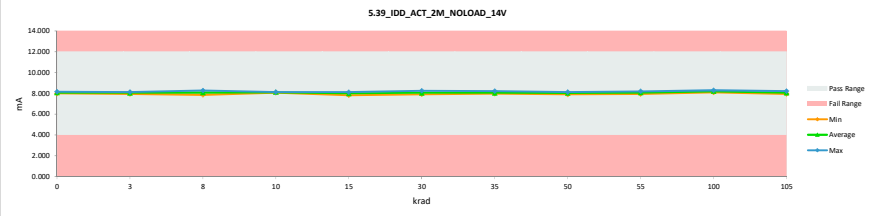
	5.39_IDD_ACT_2M_NOLOAD_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	12
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.104	8.100	-0.004
0	236	8.163	8.159	-0.004
0	563	7.988	7.988	0.000
3	717	8.067	8.080	0.013
3	685	7.960	7.953	-0.007
3	360	8.058	8.079	0.021
3	427	8.059	8.052	-0.007
3	785	8.131	8.127	-0.004
8	770	8.118	8.103	-0.015
8	331	8.171	8.156	-0.015
8	279	7.994	8.000	0.006
8	694	8.268	8.271	0.003
8	337	7.869	7.863	-0.006
10	498	8.137	8.128	-0.009
10	139	8.097	8.100	0.003
10	632	8.090	8.080	-0.010
10	465	8.099	8.119	0.020
10	500	8.075	8.060	-0.015
15	209	8.104	8.117	0.013
15	720	7.951	7.923	-0.028
15	327	8.058	8.041	-0.017
15	700	7.831	7.826	-0.005
15	851	8.049	8.053	0.004
30	571	8.205	8.250	0.045
30	172	8.023	8.051	0.028
30	375	7.913	7.915	0.002
30	445	7.879	7.935	0.056
30	103	8.095	8.151	0.056
35	119	8.154	8.084	-0.070
35	90	8.140	8.061	-0.079
35	297	7.963	7.975	0.012
35	594	7.961	7.960	-0.001
35	586	8.166	8.212	0.046
50	152	7.938	7.893	-0.045
50	359	7.950	7.978	0.028
50	126	8.104	8.084	-0.020
50	883	7.999	8.068	0.069
50	117	8.089	8.126	0.037
55	301	8.137	8.188	0.051
55	593	8.027	8.061	0.034
55	374	8.026	8.041	0.015
55	650	7.986	7.947	-0.039
55	324	8.065	8.138	0.073
100	562	8.211	8.251	0.040
100	753	8.117	8.292	0.175
100	547	8.075	8.170	0.095
100	724	8.026	8.088	0.062
100	534	8.013	8.147	0.134
105	265	8.019	7.950	-0.069
105	482	8.018	8.147	0.129
105	372	7.960	8.004	0.044
105	308	7.994	8.045	0.051
105	438	8.107	8.215	0.108
	Max	8.268	8.292	0.175
	Average	8.053	8.072	0.019
	Min	7.831	7.826	-0.079
	Std Dev	0.091	0.104	0.050



	5.39_IDD_ACT_2M_NOLOAD_1	
Test Site		
Tester		
Test Number		
Max Limit	12	mA
Min Limit	4	mA

krad	0	3	8	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	7.988	7.953	7.863	8.060	7.826	7.915	7.960	7.893	7.947	8.088	7.950
Average	8.082	8.058	8.079	8.097	7.992	8.060	8.058	8.030	8.075	8.190	8.072
Max	8.159	8.127	8.271	8.128	8.117	8.250	8.212	8.126	8.188	8.292	8.215
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

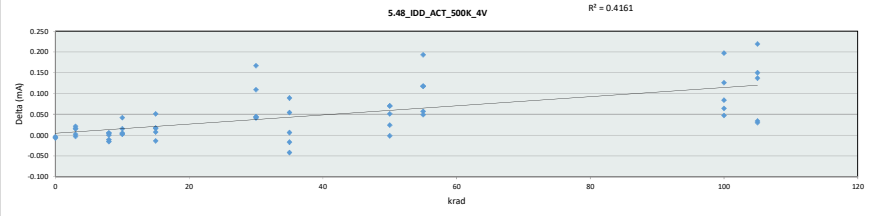


HDR TID Report
TPS7H5003-SP QMLP

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

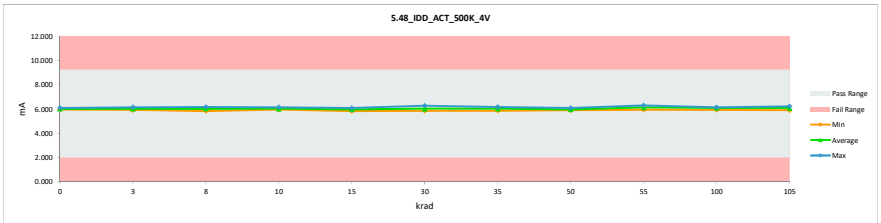
	5.48_IDD_ACT_500K_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.2	9.2
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.041	6.034	-0.007
0	236	6.089	6.083	-0.006
0	563	5.953	5.949	-0.004
3	717	5.989	6.010	0.021
3	685	5.924	5.921	-0.003
3	360	5.973	5.988	0.015
3	427	6.132	6.148	0.016
3	785	6.038	6.040	0.002
8	770	6.065	6.054	-0.011
8	331	6.046	6.030	-0.016
8	279	5.980	5.985	0.005
8	694	6.162	6.167	0.005
8	337	5.836	5.836	0.000
10	498	6.100	6.102	0.002
10	139	5.952	5.955	0.003
10	632	6.101	6.143	0.042
10	465	5.953	5.968	0.015
10	500	5.983	5.988	0.005
15	209	6.054	6.071	0.017
15	720	5.896	5.882	-0.014
15	327	6.025	6.076	0.051
15	700	5.829	5.836	0.007
15	851	5.983	5.999	0.016
30	571	6.102	6.269	0.167
30	172	5.960	6.001	0.041
30	375	5.808	5.852	0.044
30	445	5.850	5.894	0.044
30	103	6.010	6.119	0.109
35	119	6.067	6.121	0.054
35	90	6.066	6.024	-0.042
35	297	5.949	5.955	0.006
35	594	5.882	5.865	-0.017
35	586	6.070	6.159	0.089
50	152	5.884	5.935	0.051
50	359	5.891	5.889	-0.002
50	126	6.016	6.086	0.070
50	883	5.887	5.911	0.024
50	117	5.953	6.023	0.070
55	301	6.072	6.190	0.118
55	593	5.975	6.092	0.117
55	374	5.882	5.939	0.057
55	650	6.071	6.120	0.049
55	324	6.102	6.295	0.193
100	562	6.065	6.129	0.064
100	753	6.007	6.133	0.126
100	547	6.008	6.092	0.084
100	724	5.884	5.931	0.047
100	534	5.941	6.138	0.197
105	265	5.996	6.215	0.219
105	482	5.908	6.045	0.137
105	372	5.859	5.889	0.030
105	308	6.023	6.057	0.034
105	438	6.013	6.163	0.150
	Max	6.162	6.295	0.219
	Average	5.987	6.034	0.047
	Min	5.808	5.836	-0.042
	Std Dev	0.086	0.111	0.061



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

krad	0	3	8	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	5.949	5.921	5.836	5.955	5.836	5.852	5.865	5.889	5.939	5.931	5.889
Average	6.022	6.021	6.014	6.031	5.973	6.027	6.025	5.969	6.127	6.085	6.074
Max	6.083	6.148	6.167	6.143	6.076	6.269	6.159	6.086	6.295	6.138	6.215
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

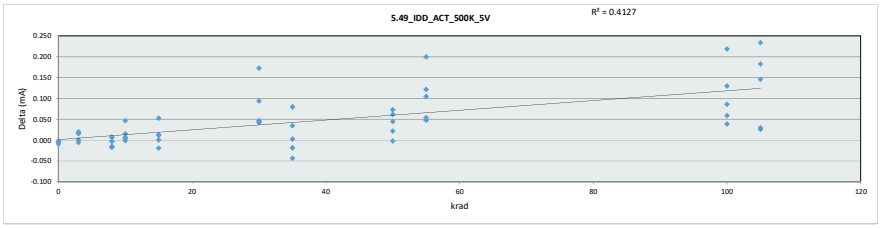


HDR TID Report
TPS7H5003-SP QMLP

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

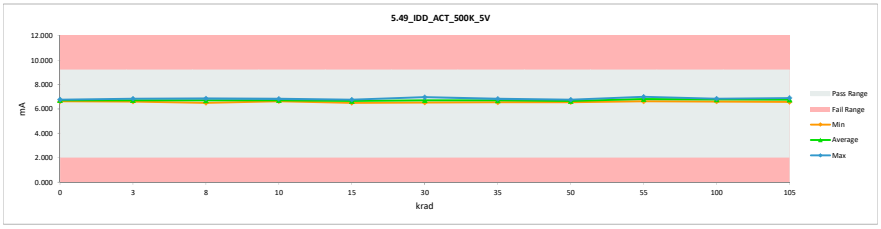
	5.49_IDD_ACT_500K_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.2	9.2
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.736	6.727	-0.009
0	236	6.776	6.771	-0.005
0	563	6.631	6.629	-0.002
3	717	6.674	6.694	0.020
3	685	6.610	6.605	-0.005
3	360	6.657	6.673	0.016
3	427	6.819	6.837	0.018
3	785	6.726	6.727	0.001
8	770	6.749	6.734	-0.015
8	331	6.736	6.719	-0.017
8	279	6.666	6.673	0.007
8	694	6.850	6.857	0.007
8	337	6.512	6.509	-0.003
10	498	6.784	6.783	-0.001
10	139	6.638	6.642	0.004
10	632	6.780	6.827	0.047
10	465	6.638	6.653	0.015
10	500	6.666	6.673	0.007
15	209	6.739	6.751	0.012
15	720	6.581	6.562	-0.019
15	327	6.706	6.759	0.053
15	700	6.511	6.512	0.001
15	851	6.670	6.683	0.013
30	571	6.789	6.962	0.173
30	172	6.645	6.688	0.043
30	375	6.483	6.530	0.047
30	445	6.535	6.578	0.043
30	103	6.689	6.783	0.094
35	119	6.749	6.784	0.035
35	90	6.751	6.708	-0.043
35	297	6.634	6.637	0.003
35	594	6.565	6.547	-0.018
35	586	6.752	6.832	0.080
50	152	6.571	6.616	0.045
50	359	6.572	6.570	-0.002
50	126	6.699	6.761	0.062
50	883	6.576	6.598	0.022
50	117	6.636	6.709	0.073
55	301	6.754	6.876	0.122
55	593	6.663	6.768	0.105
55	374	6.569	6.623	0.054
55	650	6.752	6.800	0.048
55	324	6.795	6.995	0.200
100	562	6.753	6.839	0.086
100	753	6.690	6.820	0.130
100	547	6.695	6.754	0.059
100	724	6.573	6.612	0.039
100	534	6.631	6.850	0.219
105	265	6.676	6.910	0.234
105	482	6.591	6.737	0.146
105	372	6.551	6.577	0.026
105	308	6.704	6.734	0.030
105	438	6.702	6.885	0.183
	Max	6.850	6.995	0.234
	Average	6.672	6.719	0.047
	Min	6.483	6.509	-0.043
	Std Dev	0.087	0.115	0.065



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

krad	0	3	8	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	6.629	6.605	6.509	6.642	6.512	6.530	6.547	6.570	6.623	6.612	6.577
Average	6.709	6.707	6.698	6.716	6.653	6.708	6.702	6.651	6.812	6.775	6.769
Max	6.771	6.837	6.857	6.827	6.759	6.962	6.832	6.761	6.995	6.850	6.910
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

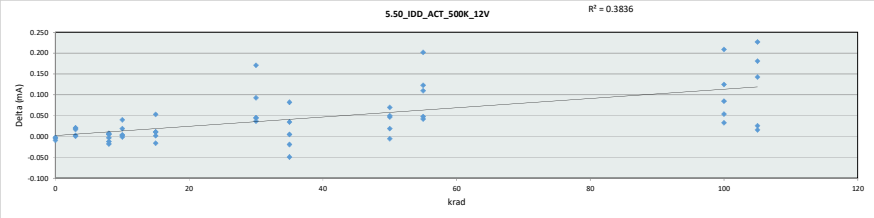


HDR TID Report
TPS7H5003-SP QMLP

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

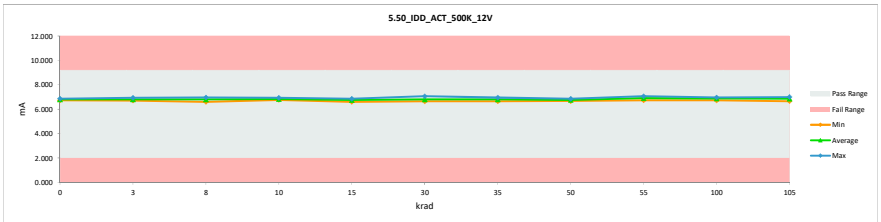
	5.50_IDD_ACT_500K_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.2	9.2
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.824	6.815	-0.009
0	236	6.872	6.868	-0.004
0	563	6.731	6.729	-0.002
3	717	6.779	6.799	0.020
3	685	6.707	6.708	0.001
3	360	6.775	6.792	0.017
3	427	6.914	6.935	0.021
3	785	6.825	6.828	0.003
8	770	6.854	6.842	-0.012
8	331	6.855	6.837	-0.018
8	279	6.754	6.762	0.008
8	694	6.962	6.967	0.005
8	337	6.608	6.605	-0.003
10	498	6.890	6.889	-0.001
10	139	6.781	6.785	0.004
10	632	6.894	6.934	0.040
10	465	6.751	6.770	0.019
10	500	6.787	6.790	0.003
15	209	6.837	6.848	0.011
15	720	6.677	6.661	-0.016
15	327	6.802	6.855	0.053
15	700	6.606	6.608	0.002
15	851	6.764	6.775	0.011
30	571	6.894	7.065	0.171
30	172	6.735	6.772	0.037
30	375	6.597	6.642	0.045
30	445	6.620	6.665	0.045
30	103	6.810	6.903	0.093
35	119	6.847	6.882	0.035
35	90	6.862	6.813	-0.049
35	297	6.727	6.732	0.005
35	594	6.675	6.656	-0.019
35	586	6.872	6.954	0.082
50	152	6.666	6.713	0.047
50	359	6.682	6.677	-0.005
50	126	6.806	6.856	0.050
50	883	6.695	6.714	0.019
50	117	6.758	6.828	0.070
55	301	6.861	6.984	0.123
55	593	6.761	6.871	0.110
55	374	6.684	6.732	0.048
55	650	6.842	6.884	0.042
55	324	6.864	7.066	0.202
100	562	6.876	6.961	0.085
100	753	6.809	6.934	0.125
100	547	6.797	6.851	0.054
100	724	6.686	6.719	0.033
100	534	6.740	6.949	0.209
105	265	6.780	7.007	0.227
105	482	6.728	6.871	0.143
105	372	6.643	6.659	0.016
105	308	6.804	6.830	0.026
105	438	6.812	6.993	0.181
	Max	6.962	7.066	0.227
	Average	6.777	6.822	0.045
	Min	6.597	6.605	-0.049
	Std Dev	0.087	0.115	0.064



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

krad	0	3	8	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	6.729	6.708	6.605	6.770	6.608	6.642	6.656	6.677	6.732	6.719	6.659
Average	6.804	6.812	6.803	6.834	6.749	6.809	6.807	6.758	6.907	6.883	6.872
Max	6.868	6.935	6.967	6.934	6.855	7.065	6.954	6.856	7.066	6.961	7.007
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

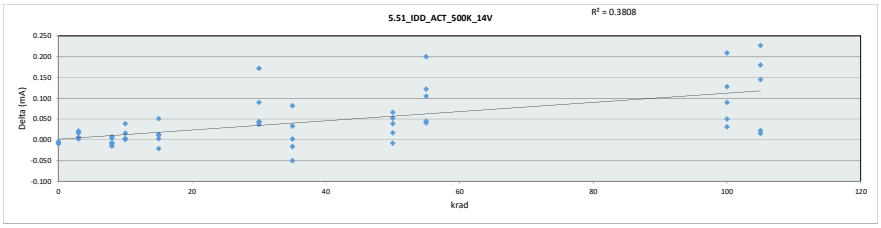


HDR TID Report
TPS7H5003-SP QMLP

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

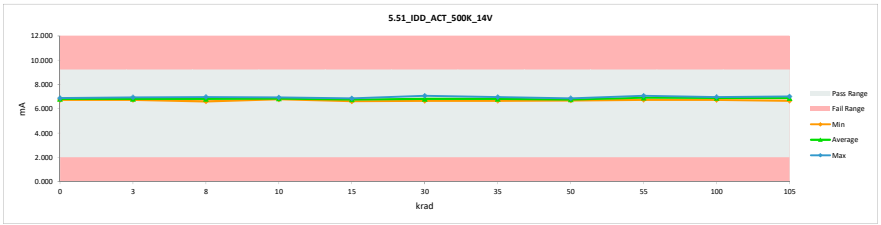
	5.51_IDD_ACT_500K_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.2	9.2
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	6.830	6.820	-0.010
0	236	6.876	6.871	-0.005
0	563	6.737	6.731	-0.006
3	717	6.784	6.800	0.016
3	685	6.712	6.714	0.002
3	360	6.777	6.798	0.021
3	427	6.919	6.939	0.020
3	785	6.829	6.835	0.006
8	770	6.857	6.847	-0.010
8	331	6.857	6.842	-0.015
8	279	6.761	6.768	0.007
8	694	6.967	6.971	0.004
8	337	6.613	6.606	-0.007
10	498	6.894	6.895	0.001
10	139	6.784	6.787	0.003
10	632	6.897	6.936	0.039
10	465	6.754	6.770	0.016
10	500	6.793	6.795	0.002
15	209	6.843	6.854	0.011
15	720	6.685	6.664	-0.021
15	327	6.806	6.857	0.051
15	700	6.609	6.612	0.003
15	851	6.766	6.779	0.013
30	571	6.900	7.072	0.172
30	172	6.740	6.777	0.037
30	375	6.603	6.646	0.043
30	445	6.626	6.670	0.044
30	103	6.816	6.906	0.090
35	119	6.851	6.884	0.033
35	90	6.867	6.817	-0.050
35	297	6.735	6.737	0.002
35	594	6.677	6.661	-0.016
35	586	6.877	6.959	0.082
50	152	6.674	6.713	0.039
50	359	6.686	6.678	-0.008
50	126	6.809	6.861	0.052
50	883	6.700	6.717	0.017
50	117	6.763	6.829	0.066
55	301	6.865	6.987	0.122
55	593	6.767	6.872	0.105
55	374	6.692	6.737	0.045
55	650	6.846	6.887	0.041
55	324	6.869	7.069	0.200
100	562	6.880	6.970	0.090
100	753	6.811	6.939	0.128
100	547	6.802	6.852	0.050
100	724	6.689	6.720	0.031
100	534	6.742	6.951	0.209
105	265	6.785	7.012	0.227
105	482	6.729	6.874	0.145
105	372	6.648	6.663	0.015
105	308	6.809	6.831	0.022
105	438	6.817	6.997	0.180
	Max	6.967	7.072	0.227
	Average	6.782	6.826	0.044
	Min	6.603	6.606	-0.050
	Std Dev	0.087	0.115	0.064



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

krad	0	3	8	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	6.731	6.714	6.606	6.770	6.612	6.646	6.661	6.678	6.737	6.720	6.663
Average	6.807	6.817	6.807	6.837	6.753	6.814	6.812	6.760	6.910	6.886	6.875
Max	6.871	6.939	6.971	6.936	6.857	7.072	6.959	6.861	7.069	6.970	7.012
UL	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200	9.200

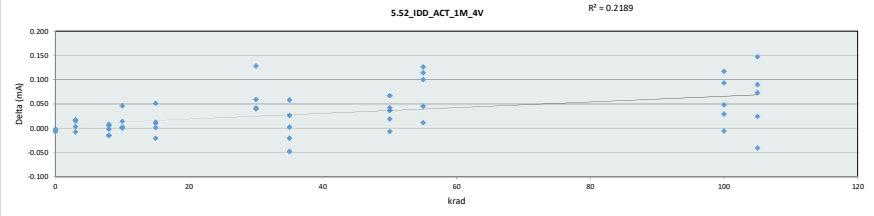


HDR TID Report
TPS7H5003-SP QMLP

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

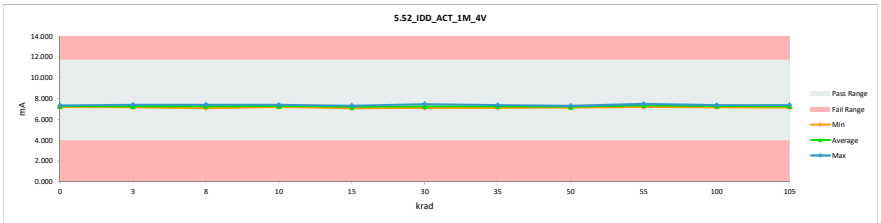
	5.52_IDD_ACT_1M_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	11.7	11.7
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.301	7.295	-0.006
0	236	7.345	7.338	-0.007
0	563	7.196	7.194	-0.002
3	717	7.242	7.259	0.017
3	685	7.171	7.163	-0.008
3	360	7.221	7.236	0.015
3	427	7.384	7.400	0.016
3	785	7.295	7.298	0.003
8	770	7.315	7.300	-0.015
8	331	7.301	7.286	-0.015
8	279	7.228	7.236	0.008
8	694	7.416	7.421	0.005
8	337	7.082	7.080	-0.002
10	498	7.342	7.342	0.000
10	139	7.198	7.200	0.002
10	632	7.343	7.389	0.046
10	465	7.213	7.227	0.014
10	500	7.230	7.231	0.001
15	209	7.305	7.315	0.010
15	720	7.145	7.124	-0.021
15	327	7.270	7.321	0.051
15	700	7.073	7.074	0.001
15	851	7.237	7.249	0.012
30	571	7.349	7.477	0.128
30	172	7.213	7.253	0.040
30	375	7.057	7.098	0.041
30	445	7.099	7.140	0.041
30	103	7.249	7.308	0.059
35	119	7.319	7.345	0.026
35	90	7.308	7.260	-0.048
35	297	7.195	7.197	0.002
35	594	7.134	7.113	-0.021
35	586	7.313	7.371	0.058
50	152	7.142	7.184	0.042
50	359	7.137	7.130	-0.007
50	126	7.265	7.301	0.036
50	883	7.139	7.158	0.019
50	117	7.209	7.276	0.067
55	301	7.320	7.434	0.114
55	593	7.224	7.324	0.100
55	374	7.142	7.187	0.045
55	650	7.313	7.324	0.011
55	324	7.360	7.486	0.126
100	562	7.318	7.312	-0.006
100	753	7.256	7.373	0.117
100	547	7.260	7.308	0.048
100	724	7.141	7.170	0.029
100	534	7.193	7.286	0.093
105	265	7.232	7.379	0.147
105	482	7.150	7.240	0.090
105	372	7.119	7.143	0.024
105	308	7.263	7.222	-0.041
105	438	7.263	7.336	0.073
	Max	7.416	7.486	0.147
	Average	7.237	7.266	0.030
	Min	7.057	7.074	-0.048
	Std Dev	0.086	0.100	0.045



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

krad	0	3	8	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	7.194	7.163	7.080	7.200	7.074	7.098	7.113	7.130	7.187	7.170	7.143
Average	7.276	7.271	7.265	7.278	7.217	7.255	7.257	7.210	7.351	7.290	7.264
Max	7.338	7.400	7.421	7.389	7.321	7.477	7.371	7.301	7.486	7.373	7.379
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

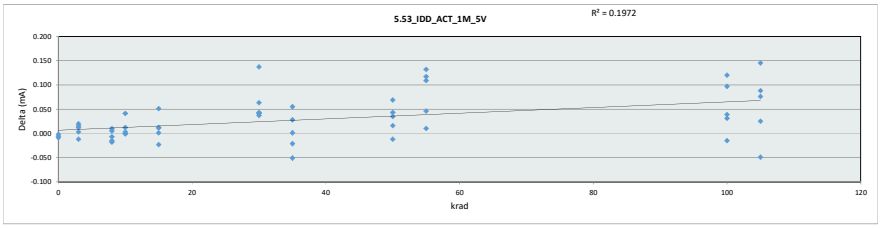


HDR TID Report
TPS7H5003-SP QMLP

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

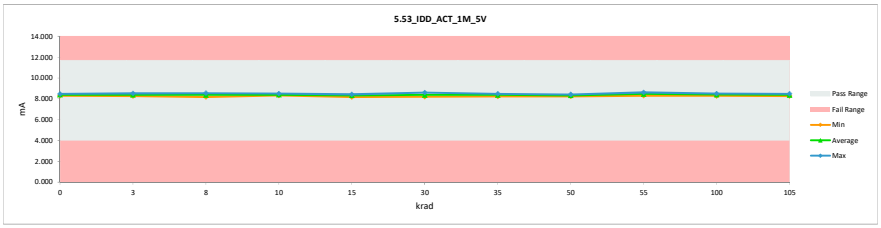
	5.53_IDD_ACT_1M_5V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	11.7	11.7
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.434	8.428	-0.006
0	236	8.475	8.466	-0.009
0	563	8.307	8.305	-0.002
3	717	8.359	8.379	0.020
3	685	8.286	8.274	-0.012
3	360	8.342	8.354	0.012
3	427	8.509	8.525	0.016
3	785	8.423	8.426	0.003
8	770	8.430	8.415	-0.015
8	331	8.423	8.405	-0.018
8	279	8.345	8.355	0.010
8	694	8.542	8.547	0.005
8	337	8.193	8.186	-0.007
10	498	8.462	8.462	0.000
10	139	8.312	8.315	0.003
10	632	8.466	8.507	0.041
10	465	8.335	8.347	0.012
10	500	8.350	8.349	-0.001
15	209	8.423	8.434	0.011
15	720	8.262	8.239	-0.023
15	327	8.388	8.439	0.051
15	700	8.178	8.179	0.001
15	851	8.360	8.372	0.012
30	571	8.469	8.606	0.137
30	172	8.336	8.373	0.037
30	375	8.168	8.211	0.043
30	445	8.214	8.255	0.041
30	103	8.361	8.424	0.063
35	119	8.438	8.466	0.028
35	90	8.430	8.379	-0.051
35	297	8.310	8.311	0.001
35	594	8.247	8.226	-0.021
35	586	8.433	8.488	0.055
50	152	8.262	8.305	0.043
50	359	8.254	8.242	-0.012
50	126	8.384	8.419	0.035
50	883	8.257	8.273	0.016
50	117	8.328	8.397	0.069
55	301	8.439	8.556	0.117
55	593	8.338	8.447	0.109
55	374	8.264	8.310	0.046
55	650	8.427	8.437	0.010
55	324	8.483	8.615	0.132
100	562	8.443	8.428	-0.015
100	753	8.378	8.498	0.120
100	547	8.384	8.423	0.039
100	724	8.256	8.287	0.031
100	534	8.312	8.409	0.097
105	265	8.343	8.488	0.145
105	482	8.264	8.352	0.088
105	372	8.244	8.269	0.025
105	308	8.377	8.328	-0.049
105	438	8.388	8.464	0.076
	Max	8.542	8.615	0.145
	Average	8.355	8.385	0.029
	Min	8.168	8.179	-0.051
	Std Dev	0.089	0.103	0.047



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

krad	0	3	8	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	8.305	8.274	8.186	8.315	8.179	8.211	8.226	8.242	8.310	8.287	8.269
Average	8.400	8.392	8.382	8.396	8.333	8.374	8.374	8.327	8.473	8.409	8.380
Max	8.466	8.525	8.547	8.507	8.439	8.606	8.488	8.419	8.615	8.498	8.488
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

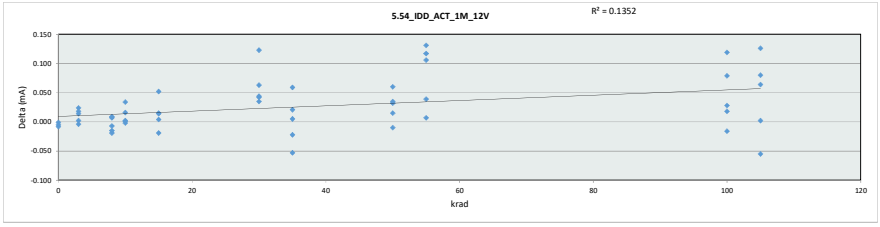


HDR TID Report
TPS7H5003-SP QMLP

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

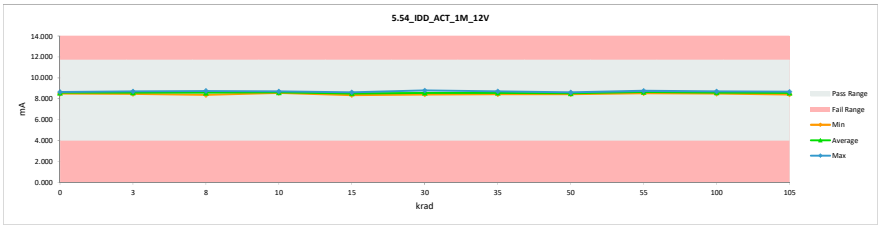
5.54_IDD_ACT_1M_12V		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	11.7	11.7
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.603	8.595	-0.008
0	236	8.652	8.647	-0.005
0	563	8.492	8.491	-0.001
3	717	8.553	8.571	0.018
3	685	8.468	8.464	-0.004
3	360	8.548	8.572	0.024
3	427	8.690	8.704	0.014
3	785	8.607	8.609	0.002
8	770	8.624	8.609	-0.015
8	331	8.640	8.621	-0.019
8	279	8.516	8.523	0.007
8	694	8.744	8.753	0.009
8	337	8.367	8.360	-0.007
10	498	8.652	8.653	0.001
10	139	8.567	8.569	0.002
10	632	8.668	8.702	0.034
10	465	8.543	8.559	0.016
10	500	8.567	8.565	-0.002
15	209	8.604	8.618	0.014
15	720	8.444	8.425	-0.019
15	327	8.563	8.615	0.052
15	700	8.353	8.357	0.004
15	851	8.530	8.545	0.015
30	571	8.668	8.791	0.123
30	172	8.506	8.541	0.035
30	375	8.373	8.415	0.042
30	445	8.373	8.417	0.044
30	103	8.577	8.640	0.063
35	119	8.625	8.646	0.021
35	90	8.626	8.573	-0.053
35	297	8.480	8.485	0.005
35	594	8.447	8.425	-0.022
35	586	8.650	8.709	0.059
50	152	8.444	8.479	0.035
50	359	8.448	8.438	-0.010
50	126	8.575	8.607	0.032
50	883	8.471	8.486	0.015
50	117	8.550	8.610	0.060
55	301	8.633	8.750	0.117
55	593	8.524	8.630	0.106
55	374	8.478	8.517	0.039
55	650	8.598	8.605	0.007
55	324	8.623	8.754	0.131
100	562	8.659	8.643	-0.016
100	753	8.588	8.707	0.119
100	547	8.573	8.601	0.028
100	724	8.466	8.484	0.018
100	534	8.509	8.588	0.079
105	265	8.541	8.667	0.126
105	482	8.506	8.586	0.080
105	372	8.420	8.422	0.002
105	308	8.560	8.505	-0.055
105	438	8.588	8.652	0.064
	Max	8.744	8.791	0.131
	Average	8.549	8.575	0.027
	Min	8.353	8.357	-0.055
	Std Dev	0.090	0.104	0.044



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

krad	0	3	8	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	8.491	8.464	8.360	8.559	8.357	8.415	8.425	8.438	8.517	8.484	8.422
Average	8.578	8.584	8.573	8.610	8.512	8.561	8.568	8.524	8.651	8.605	8.566
Max	8.647	8.704	8.753	8.702	8.618	8.791	8.709	8.610	8.754	8.707	8.667
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

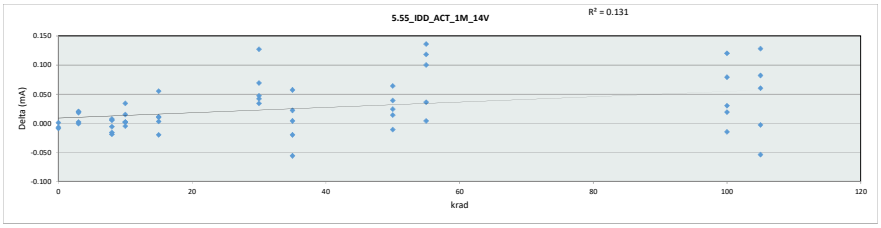


HDR TID Report
TPS7H5003-SP QMLP

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

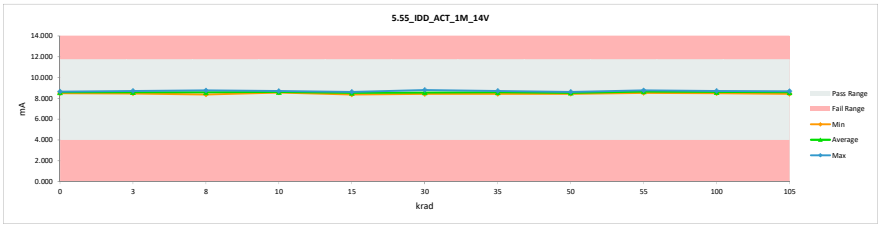
5.55_IDD_ACT_1M_14V		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	11.7	11.7
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.607	8.598	-0.009
0	236	8.658	8.651	-0.007
0	563	8.492	8.493	0.001
3	717	8.558	8.578	0.020
3	685	8.471	8.470	-0.001
3	360	8.553	8.573	0.020
3	427	8.693	8.711	0.018
3	785	8.612	8.614	0.002
8	770	8.629	8.613	-0.016
8	331	8.645	8.626	-0.019
8	279	8.520	8.527	0.007
8	694	8.749	8.754	0.005
8	337	8.373	8.367	-0.006
10	498	8.655	8.657	0.002
10	139	8.570	8.572	0.002
10	632	8.671	8.705	0.034
10	465	8.545	8.560	0.015
10	500	8.571	8.566	-0.005
15	209	8.610	8.621	0.011
15	720	8.447	8.427	-0.020
15	327	8.566	8.621	0.055
15	700	8.361	8.364	0.003
15	851	8.537	8.547	0.010
30	571	8.673	8.800	0.127
30	172	8.511	8.545	0.034
30	375	8.379	8.426	0.047
30	445	8.379	8.421	0.042
30	103	8.578	8.647	0.069
35	119	8.631	8.653	0.022
35	90	8.632	8.576	-0.056
35	297	8.484	8.488	0.004
35	594	8.452	8.432	-0.020
35	586	8.655	8.712	0.057
50	152	8.446	8.485	0.039
50	359	8.452	8.441	-0.011
50	126	8.583	8.607	0.024
50	883	8.475	8.489	0.014
50	117	8.554	8.618	0.064
55	301	8.638	8.756	0.118
55	593	8.531	8.631	0.100
55	374	8.483	8.519	0.036
55	650	8.603	8.607	0.004
55	324	8.628	8.764	0.136
100	562	8.663	8.648	-0.015
100	753	8.591	8.711	0.120
100	547	8.577	8.607	0.030
100	724	8.469	8.488	0.019
100	534	8.513	8.592	0.079
105	265	8.545	8.673	0.128
105	482	8.509	8.591	0.082
105	372	8.430	8.427	-0.003
105	308	8.564	8.510	-0.054
105	438	8.594	8.654	0.060
	Max	8.749	8.800	0.136
	Average	8.553	8.580	0.027
	Min	8.361	8.364	-0.056
	Std Dev	0.089	0.104	0.045



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

krad	0	3	8	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	8.493	8.470	8.367	8.560	8.364	8.421	8.432	8.441	8.519	8.488	8.427
Average	8.581	8.589	8.577	8.612	8.516	8.568	8.572	8.528	8.655	8.609	8.571
Max	8.651	8.711	8.754	8.705	8.621	8.800	8.712	8.618	8.764	8.711	8.673
UL	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700	11.700

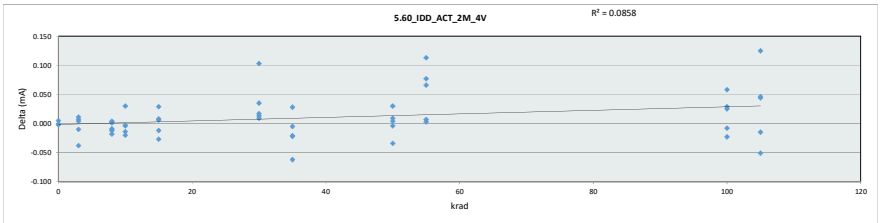


HDR TID Report
TPS7H5003-SP QMLP

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

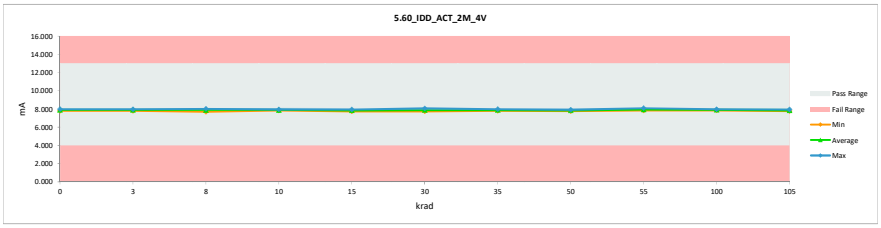
	5.60_IDD_ACT_2M_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	13	13
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.952	7.950	-0.002
0	236	7.981	7.980	-0.001
0	563	7.791	7.796	0.005
3	717	7.904	7.908	0.004
3	685	7.819	7.781	-0.038
3	360	7.889	7.900	0.011
3	427	7.964	7.971	0.007
3	785	7.940	7.930	-0.010
8	770	7.950	7.932	-0.018
8	331	7.929	7.920	-0.009
8	279	7.893	7.897	0.004
8	694	8.024	8.025	0.001
8	337	7.700	7.688	-0.012
10	498	7.932	7.928	-0.004
10	139	7.841	7.827	-0.014
10	632	7.929	7.959	0.030
10	465	7.881	7.878	-0.003
10	500	7.859	7.839	-0.020
15	209	7.928	7.936	0.008
15	720	7.800	7.773	-0.027
15	327	7.879	7.908	0.029
15	700	7.742	7.730	-0.012
15	851	7.900	7.906	0.006
30	571	7.955	8.058	0.103
30	172	7.858	7.871	0.013
30	375	7.716	7.733	0.017
30	445	7.796	7.805	0.009
30	103	7.884	7.919	0.035
35	119	7.939	7.934	-0.005
35	90	7.912	7.850	-0.062
35	297	7.867	7.846	-0.021
35	594	7.818	7.796	-0.022
35	586	7.954	7.982	0.028
50	152	7.764	7.760	-0.004
50	359	7.805	7.771	-0.034
50	126	7.915	7.919	0.004
50	883	7.832	7.841	0.009
50	117	7.848	7.878	0.030
55	301	7.930	8.007	0.077
55	593	7.844	7.910	0.066
55	374	7.817	7.824	0.007
55	650	7.886	7.889	0.003
55	324	7.966	8.079	0.113
100	562	7.990	7.967	-0.023
100	753	7.907	7.965	0.058
100	547	7.882	7.911	0.029
100	724	7.860	7.852	-0.008
100	534	7.889	7.914	0.025
105	265	7.820	7.945	0.125
105	482	7.764	7.810	0.046
105	372	7.792	7.777	-0.015
105	308	7.832	7.781	-0.051
105	438	7.897	7.941	0.044
	Max	8.024	8.079	0.125
	Average	7.875	7.885	0.010
	Min	7.700	7.688	-0.062
	Std Dev	0.072	0.085	0.037



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

krad	0	3	8	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	7.796	7.781	7.688	7.827	7.730	7.733	7.796	7.760	7.824	7.852	7.777
Average	7.909	7.898	7.892	7.886	7.851	7.877	7.882	7.834	7.942	7.922	7.851
Max	7.980	7.971	8.025	7.959	7.936	8.058	7.982	7.919	8.079	7.967	7.945
UL	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000	13.000

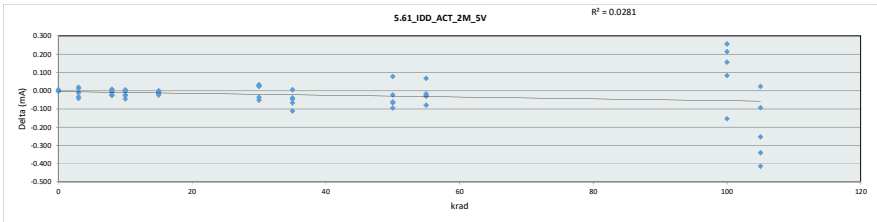


HDR TID Report
TPS7H5003-SP QMLP

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

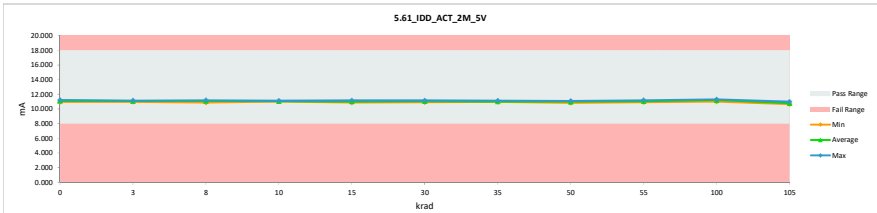
5.61_IDD_ACT_2M_5V		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	18	18
Min Limit	8	8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	11.201	11.207	0.006
0	236	11.185	11.181	-0.004
0	563	10.947	10.950	0.003
3	717	11.134	11.153	0.019
3	685	11.035	10.993	-0.042
3	360	11.074	11.086	0.012
3	427	11.063	11.052	-0.011
3	785	11.182	11.149	-0.033
8	770	11.168	11.146	-0.022
8	331	11.138	11.133	-0.005
8	279	11.114	11.122	0.008
8	694	11.199	11.194	-0.005
8	337	10.900	10.874	-0.026
10	498	11.076	11.053	-0.023
10	139	11.044	11.042	-0.002
10	632	11.012	11.017	0.005
10	465	11.142	11.115	-0.027
10	500	11.077	11.032	-0.045
15	209	11.122	11.113	-0.009
15	720	11.009	10.985	-0.024
15	327	11.016	11.001	-0.015
15	700	10.873	10.873	0.000
15	851	11.164	11.159	-0.005
30	571	11.138	11.171	0.033
30	172	11.087	11.035	-0.052
30	375	10.963	10.927	-0.036
30	445	10.971	11.000	0.029
30	103	11.107	11.131	0.024
35	119	11.099	11.033	-0.066
35	90	11.091	10.980	-0.111
35	297	11.026	11.031	0.005
35	594	11.001	10.955	-0.046
35	586	11.173	11.133	-0.040
50	152	10.944	10.849	-0.095
50	359	10.975	10.952	-0.023
50	126	11.164	11.098	-0.066
50	883	11.023	11.101	0.078
50	117	11.063	11.001	-0.062
55	301	11.116	11.099	-0.017
55	593	11.033	11.004	-0.029
55	374	11.090	11.011	-0.079
55	650	10.963	10.935	-0.028
55	324	11.123	11.191	0.068
100	562	11.235	11.318	0.083
100	753	11.154	11.000	-0.154
100	547	11.077	11.291	0.214
100	724	11.042	11.198	0.156
100	534	11.033	11.289	0.256
105	265	10.967	10.990	0.023
105	482	10.961	10.868	-0.093
105	372	11.063	10.723	-0.340
105	308	10.912	10.659	-0.253
105	438	11.129	10.715	-0.414
	Max	11.235	11.318	0.256
	Average	11.068	11.044	-0.024
	Min	10.873	10.659	-0.414
	Std Dev	0.085	0.138	0.105



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

krad	0	3	8	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	10.950	10.993	10.874	11.017	10.873	10.927	10.955	10.849	10.935	11.000	10.659
Average	11.113	11.087	11.094	11.052	11.026	11.053	11.026	11.000	11.048	11.219	10.791
Max	11.207	11.153	11.194	11.115	11.159	11.171	11.133	11.101	11.191	11.318	10.990
UL	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000

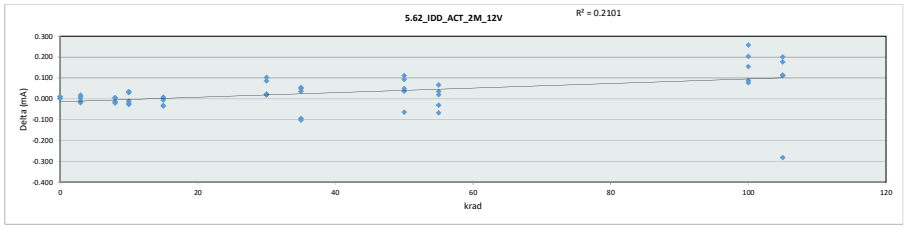


HDR TID Report
TPS7H5003-SP QMLP

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

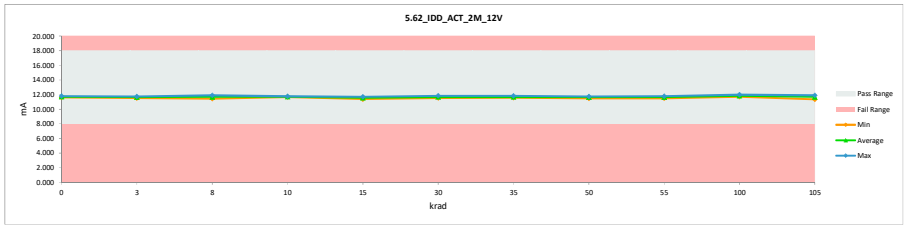
	5.62_IDD_ACT_2M_12V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	18	18
Min Limit	8	8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	11.728	11.732	0.004
0	236	11.801	11.802	0.001
0	563	11.587	11.598	0.011
3	717	11.668	11.680	0.012
3	685	11.532	11.522	-0.010
3	360	11.634	11.652	0.018
3	427	11.666	11.647	-0.019
3	785	11.744	11.748	0.004
8	770	11.700	11.680	-0.020
8	331	11.795	11.779	-0.016
8	279	11.580	11.585	0.005
8	694	11.891	11.896	0.005
8	337	11.462	11.449	-0.013
10	498	11.738	11.727	-0.011
10	139	11.693	11.728	0.035
10	632	11.699	11.672	-0.027
10	465	11.743	11.773	0.030
10	500	11.692	11.670	-0.022
15	209	11.697	11.705	0.008
15	720	11.519	11.487	-0.032
15	327	11.651	11.617	-0.034
15	700	11.378	11.372	-0.006
15	851	11.657	11.657	0.000
30	571	11.830	11.853	0.023
30	172	11.629	11.649	0.020
30	375	11.526	11.545	0.019
30	445	11.443	11.546	0.103
30	103	11.675	11.761	0.086
35	119	11.780	11.686	-0.094
35	90	11.740	11.639	-0.101
35	297	11.517	11.567	0.050
35	594	11.540	11.576	0.036
35	586	11.784	11.839	0.055
50	152	11.539	11.475	-0.064
50	359	11.507	11.600	0.093
50	126	11.700	11.736	0.036
50	883	11.604	11.716	0.112
50	117	11.708	11.757	0.049
55	301	11.740	11.775	0.035
55	593	11.632	11.652	0.020
55	374	11.662	11.632	-0.030
55	650	11.569	11.502	-0.067
55	324	11.666	11.733	0.067
100	562	11.821	11.898	0.077
100	753	11.728	11.986	0.258
100	547	11.674	11.829	0.155
100	724	11.625	11.713	0.088
100	534	11.581	11.785	0.204
105	265	11.634	11.352	-0.282
105	482	11.634	11.835	0.201
105	372	11.572	11.686	0.114
105	308	11.575	11.687	0.112
105	438	11.717	11.894	0.177
	Max	11.891	11.986	0.258
	Average	11.653	11.681	0.028
	Min	11.378	11.352	-0.282
	Std Dev	0.105	0.132	0.085



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

krad	0	3	8	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	11.598	11.522	11.449	11.670	11.372	11.545	11.567	11.475	11.502	11.713	11.352
Average	11.711	11.650	11.678	11.714	11.568	11.671	11.661	11.657	11.659	11.842	11.691
Max	11.802	11.748	11.896	11.773	11.705	11.853	11.839	11.757	11.775	11.986	11.894
UL	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000

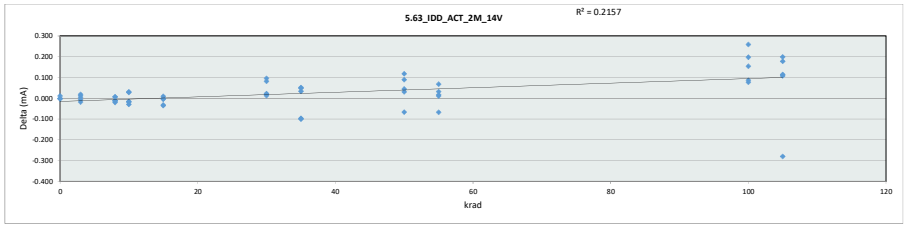


HDR TID Report
TPS7H5003-SP QMLP

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

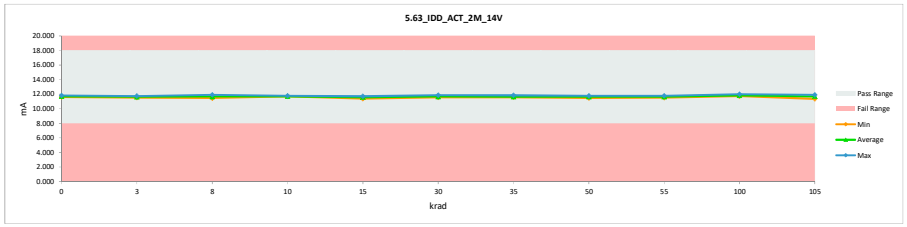
5.63_IDD_ACT_2M_14V		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	18	18
Min Limit	8	8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	11.735	11.732	-0.003
0	236	11.806	11.806	0.000
0	563	11.588	11.600	0.012
3	717	11.672	11.685	0.013
3	685	11.536	11.530	-0.006
3	360	11.640	11.659	0.019
3	427	11.670	11.652	-0.018
3	785	11.747	11.751	0.004
8	770	11.704	11.684	-0.020
8	331	11.798	11.785	-0.013
8	279	11.583	11.591	0.008
8	694	11.895	11.901	0.006
8	337	11.466	11.455	-0.011
10	498	11.745	11.730	-0.015
10	139	11.699	11.730	0.031
10	632	11.705	11.676	-0.029
10	465	11.749	11.777	0.028
10	500	11.693	11.675	-0.018
15	209	11.702	11.712	0.010
15	720	11.526	11.491	-0.035
15	327	11.652	11.620	-0.032
15	700	11.383	11.378	-0.005
15	851	11.662	11.662	0.000
30	571	11.833	11.856	0.023
30	172	11.634	11.654	0.020
30	375	11.533	11.546	0.013
30	445	11.450	11.546	0.096
30	103	11.684	11.766	0.082
35	119	11.788	11.692	-0.096
35	90	11.744	11.644	-0.100
35	297	11.522	11.571	0.049
35	594	11.547	11.581	0.034
35	586	11.791	11.843	0.052
50	152	11.544	11.478	-0.066
50	359	11.512	11.602	0.090
50	126	11.708	11.739	0.031
50	883	11.605	11.723	0.118
50	117	11.711	11.756	0.045
55	301	11.744	11.776	0.032
55	593	11.639	11.656	0.017
55	374	11.668	11.680	0.012
55	650	11.572	11.505	-0.067
55	324	11.667	11.735	0.068
100	562	11.823	11.900	0.077
100	753	11.732	11.991	0.259
100	547	11.677	11.831	0.154
100	724	11.632	11.719	0.087
100	534	11.587	11.785	0.198
105	265	11.638	11.359	-0.279
105	482	11.642	11.841	0.199
105	372	11.575	11.690	0.115
105	308	11.579	11.687	0.108
105	438	11.721	11.899	0.178
	Max	11.895	11.991	0.259
	Average	11.658	11.686	0.028
	Min	11.383	11.359	-0.279
	Std Dev	0.105	0.132	0.084



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

krad	0	3	8	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	11.600	11.530	11.455	11.675	11.378	11.546	11.571	11.478	11.505	11.719	11.359
Average	11.713	11.655	11.683	11.718	11.573	11.674	11.666	11.660	11.670	11.845	11.695
Max	11.806	11.751	11.901	11.777	11.712	11.856	11.843	11.756	11.776	11.991	11.899
UL	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000

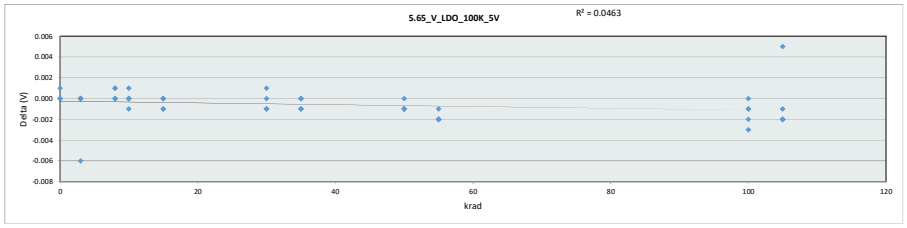


HDR TID Report
TPS7H5003-SP QMLP

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

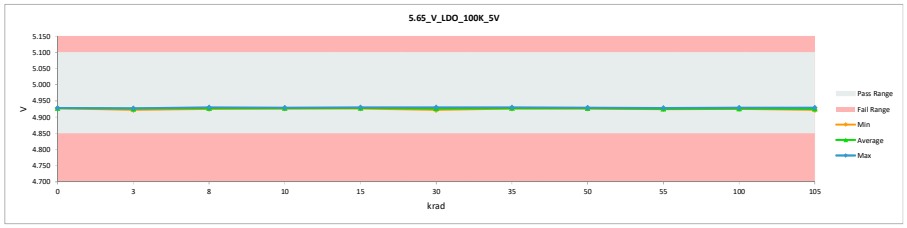
	5.65_V_LDO_100K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.1	5.1
Min Limit	4.85	4.85

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	4.927	4.928	0.001
0	236	4.927	4.927	0.000
0	563	4.928	4.928	0.000
3	717	4.927	4.927	0.000
3	685	4.928	4.922	-0.006
3	360	4.927	4.927	0.000
3	427	4.926	4.926	0.000
3	785	4.927	4.927	0.000
8	770	4.926	4.927	0.001
8	331	4.926	4.927	0.001
8	279	4.929	4.929	0.000
8	694	4.925	4.925	0.000
8	337	4.930	4.930	0.000
10	498	4.925	4.926	0.001
10	139	4.928	4.928	0.000
10	632	4.926	4.926	0.000
10	465	4.929	4.929	0.000
10	500	4.928	4.927	-0.001
15	209	4.927	4.926	-0.001
15	720	4.930	4.930	0.000
15	327	4.927	4.926	-0.001
15	700	4.930	4.930	0.000
15	851	4.928	4.928	0.000
30	571	4.921	4.922	0.001
30	172	4.928	4.927	-0.001
30	375	4.930	4.930	0.000
30	445	4.930	4.929	-0.001
30	103	4.927	4.926	-0.001
35	119	4.927	4.926	-0.001
35	90	4.926	4.926	0.000
35	297	4.928	4.928	0.000
35	594	4.930	4.930	0.000
35	586	4.927	4.926	-0.001
50	152	4.929	4.928	-0.001
50	359	4.929	4.929	0.000
50	126	4.927	4.926	-0.001
50	883	4.930	4.929	-0.001
50	117	4.928	4.927	-0.001
55	301	4.926	4.924	-0.002
55	593	4.928	4.926	-0.002
55	374	4.930	4.928	-0.002
55	650	4.926	4.925	-0.001
55	324	4.926	4.924	-0.002
100	562	4.926	4.926	0.000
100	753	4.928	4.925	-0.003
100	547	4.927	4.926	-0.001
100	724	4.930	4.929	-0.001
100	534	4.928	4.926	-0.002
105	265	4.917	4.922	0.005
105	482	4.929	4.927	-0.002
105	372	4.930	4.929	-0.001
105	308	4.927	4.925	-0.002
105	438	4.927	4.925	-0.002
	Max	4.930	4.930	0.005
	Average	4.927	4.927	-0.001
	Min	4.917	4.922	-0.006
	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	8	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	4.927	4.922	4.925	4.926	4.926	4.922	4.926	4.926	4.924	4.925	4.922
Average	4.928	4.926	4.928	4.927	4.928	4.927	4.927	4.928	4.925	4.926	4.926
Max	4.928	4.927	4.930	4.929	4.930	4.930	4.930	4.929	4.928	4.929	4.929
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

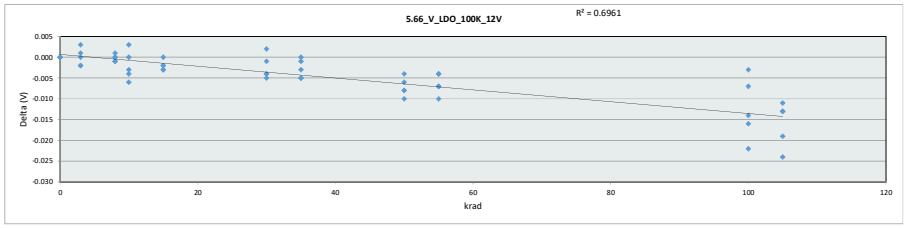


HDR TID Report
TPS7H5003-SP QMLP

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

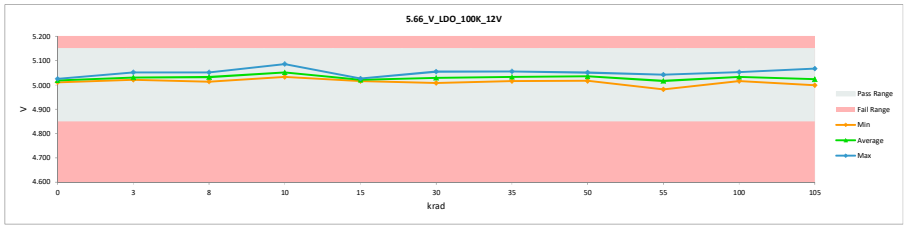
5.66_V_LDO_100K_12V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.85	4.85

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.011	5.011	0.000
0	236	5.020	5.020	0.000
0	563	5.025	5.025	0.000
3	717	5.033	5.034	0.001
3	685	5.026	5.024	-0.002
3	360	5.049	5.052	0.003
3	427	5.021	5.021	0.000
3	785	5.025	5.023	-0.002
8	770	5.033	5.034	0.001
8	331	5.053	5.052	-0.001
8	279	5.014	5.014	0.000
8	694	5.040	5.040	0.000
8	337	5.024	5.023	-0.001
10	498	5.033	5.033	0.000
10	139	5.089	5.086	-0.003
10	632	5.042	5.036	-0.006
10	465	5.047	5.050	0.003
10	500	5.056	5.052	-0.004
15	209	5.025	5.023	-0.002
15	720	5.029	5.026	-0.003
15	327	5.019	5.016	-0.003
15	700	5.024	5.024	0.000
15	851	5.018	5.016	-0.002
30	571	5.029	5.024	-0.005
30	172	5.015	5.011	-0.004
30	375	5.053	5.049	-0.004
30	445	5.009	5.008	-0.001
30	103	5.053	5.055	0.002
35	119	5.027	5.022	-0.005
35	90	5.037	5.032	-0.005
35	297	5.017	5.016	-0.001
35	594	5.041	5.041	0.000
35	586	5.059	5.056	-0.003
50	152	5.027	5.017	-0.010
50	359	5.040	5.034	-0.006
50	126	5.032	5.024	-0.008
50	883	5.055	5.051	-0.004
50	117	5.059	5.051	-0.008
55	301	5.033	5.029	-0.004
55	593	5.030	5.023	-0.007
55	374	5.052	5.042	-0.010
55	650	5.014	5.007	-0.007
55	324	4.986	4.982	-0.004
100	562	5.056	5.053	-0.003
100	753	5.051	5.044	-0.007
100	547	5.031	5.017	-0.014
100	724	5.052	5.036	-0.016
100	534	5.038	5.016	-0.022
105	265	5.024	5.013	-0.011
105	482	5.080	5.067	-0.013
105	372	5.023	4.999	-0.024
105	308	5.030	5.017	-0.013
105	438	5.042	5.023	-0.019
	Max	5.089	5.086	0.003
	Average	5.035	5.030	-0.005
	Min	4.986	4.982	-0.024
	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	8	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	5.021	5.014	5.033	5.016	5.008	5.016	5.017	4.982	5.016	4.999
Average	5.019	5.031	5.033	5.051	5.021	5.029	5.033	5.035	5.017	5.033	5.024
Max	5.025	5.052	5.052	5.086	5.026	5.055	5.056	5.051	5.042	5.053	5.067
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

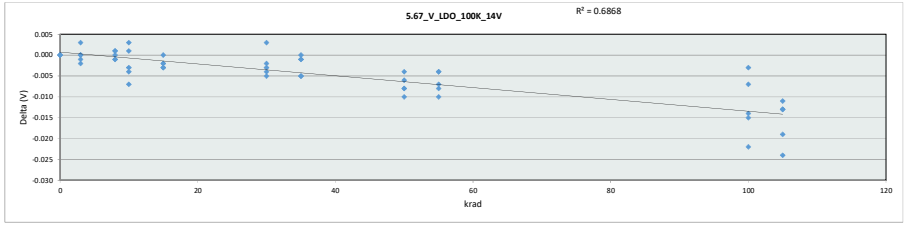


HDR TID Report
TPS7H5003-SP QMLP

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

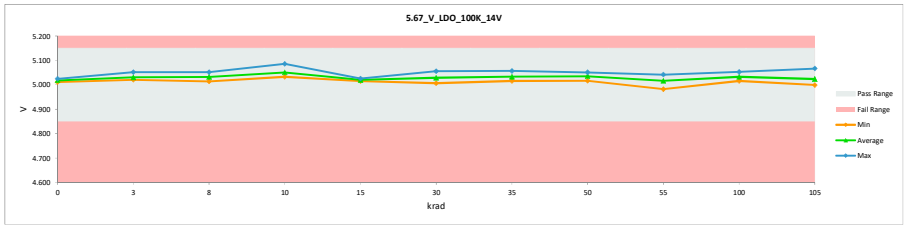
	5.67_V_LDO_100K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.85	4.85

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.011	5.011	0.000
0	236	5.020	5.020	0.000
0	563	5.025	5.025	0.000
3	717	5.033	5.033	0.000
3	685	5.026	5.024	-0.002
3	360	5.049	5.052	0.003
3	427	5.021	5.021	0.000
3	785	5.024	5.023	-0.001
8	770	5.033	5.034	0.001
8	331	5.053	5.052	-0.001
8	279	5.013	5.014	0.001
8	694	5.040	5.040	0.000
8	337	5.024	5.023	-0.001
10	498	5.032	5.033	0.001
10	139	5.089	5.086	-0.003
10	632	5.042	5.035	-0.007
10	465	5.047	5.050	0.003
10	500	5.056	5.052	-0.004
15	209	5.025	5.022	-0.003
15	720	5.028	5.026	-0.002
15	327	5.019	5.016	-0.003
15	700	5.024	5.024	0.000
15	851	5.017	5.015	-0.002
30	571	5.028	5.023	-0.005
30	172	5.014	5.011	-0.003
30	375	5.052	5.048	-0.004
30	445	5.009	5.007	-0.002
30	103	5.053	5.056	0.003
35	119	5.026	5.021	-0.005
35	90	5.037	5.032	-0.005
35	297	5.017	5.016	-0.001
35	594	5.041	5.041	0.000
35	586	5.058	5.057	-0.001
50	152	5.027	5.017	-0.010
50	359	5.040	5.034	-0.006
50	126	5.032	5.024	-0.008
50	883	5.055	5.051	-0.004
50	117	5.059	5.051	-0.008
55	301	5.033	5.029	-0.004
55	593	5.030	5.023	-0.007
55	374	5.052	5.042	-0.010
55	650	5.014	5.006	-0.008
55	324	4.986	4.982	-0.004
100	562	5.056	5.053	-0.003
100	753	5.051	5.044	-0.007
100	547	5.031	5.017	-0.014
100	724	5.051	5.036	-0.015
100	534	5.038	5.016	-0.022
105	265	5.024	5.013	-0.011
105	482	5.080	5.067	-0.013
105	372	5.023	4.999	-0.024
105	308	5.030	5.017	-0.013
105	438	5.042	5.023	-0.019
	Max	5.089	5.086	0.003
	Average	5.035	5.030	-0.005
	Min	4.986	4.982	-0.024
	Std Dev	0.018	0.019	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	8	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	5.021	5.014	5.033	5.015	5.007	5.016	5.017	4.982	5.016	4.999
Average	5.019	5.031	5.033	5.051	5.021	5.029	5.033	5.035	5.016	5.033	5.024
Max	5.025	5.052	5.052	5.086	5.026	5.056	5.057	5.051	5.042	5.053	5.067
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

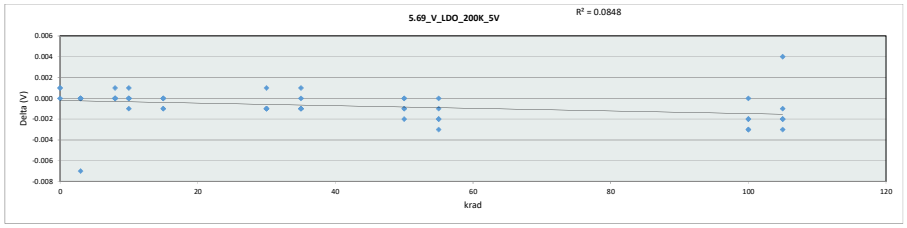


HDR TID Report
TPS7H5003-SP QMLP

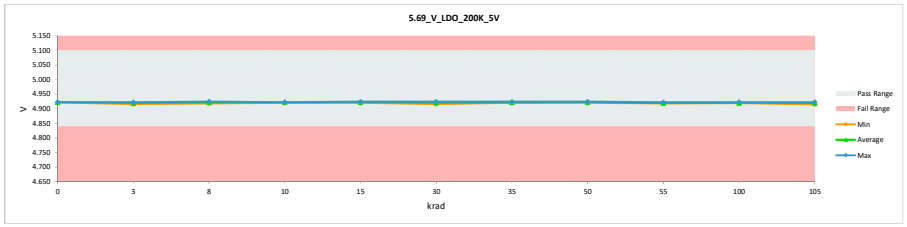
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	4.921	4.922	0.001
0	236	4.921	4.921	0.000
0	563	4.922	4.923	0.001
3	717	4.921	4.921	0.000
3	685	4.923	4.916	-0.007
3	360	4.922	4.922	0.000
3	427	4.920	4.920	0.000
3	785	4.921	4.921	0.000
8	770	4.921	4.921	0.000
8	331	4.921	4.922	0.001
8	279	4.923	4.923	0.000
8	694	4.918	4.918	0.000
8	337	4.925	4.925	0.000
10	498	4.919	4.920	0.001
10	139	4.923	4.923	0.000
10	632	4.921	4.920	-0.001
10	465	4.923	4.923	0.000
10	500	4.922	4.922	0.000
15	209	4.921	4.921	0.000
15	720	4.924	4.924	0.000
15	327	4.921	4.920	-0.001
15	700	4.924	4.923	-0.001
15	851	4.922	4.922	0.000
30	571	4.915	4.916	0.001
30	172	4.922	4.921	-0.001
30	375	4.925	4.924	-0.001
30	445	4.924	4.923	-0.001
30	103	4.921	4.920	-0.001
35	119	4.921	4.920	-0.001
35	90	4.920	4.921	0.001
35	297	4.922	4.922	0.000
35	594	4.925	4.924	-0.001
35	586	4.921	4.920	-0.001
50	152	4.924	4.922	-0.002
50	359	4.924	4.924	0.000
50	126	4.921	4.920	-0.001
50	883	4.924	4.924	0.000
50	117	4.922	4.921	-0.001
55	301	4.921	4.918	-0.003
55	593	4.922	4.920	-0.002
55	374	4.923	4.922	-0.001
55	650	4.920	4.920	0.000
55	324	4.920	4.918	-0.002
100	562	4.920	4.920	0.000
100	753	4.922	4.919	-0.003
100	547	4.922	4.920	-0.002
100	724	4.925	4.923	-0.002
100	534	4.922	4.919	-0.003
105	265	4.911	4.915	0.004
105	482	4.923	4.921	-0.002
105	372	4.924	4.923	-0.001
105	308	4.921	4.919	-0.002
105	438	4.921	4.918	-0.003
	Max	4.925	4.925	0.004
	Average	4.922	4.921	-0.001
	Min	4.911	4.915	-0.007
	Std Dev	0.002	0.002	0.002



	5.69_V_LDO_200K_5V										
Test Site											
Tester											
Test Number											
Max Limit	5.1	V									
Min Limit	4.84	V									
krad	0	3	8	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	4.921	4.916	4.918	4.920	4.920	4.916	4.920	4.920	4.918	4.919	4.915
Average	4.922	4.920	4.922	4.922	4.922	4.921	4.921	4.922	4.920	4.920	4.919
Max	4.923	4.922	4.925	4.923	4.924	4.924	4.924	4.924	4.922	4.923	4.923
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

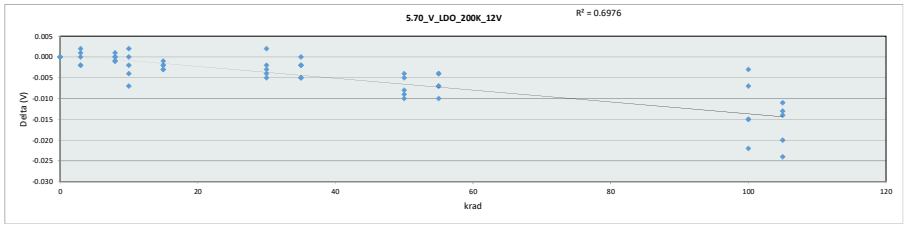


HDR TID Report
TPS7H5003-SP QMLP

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

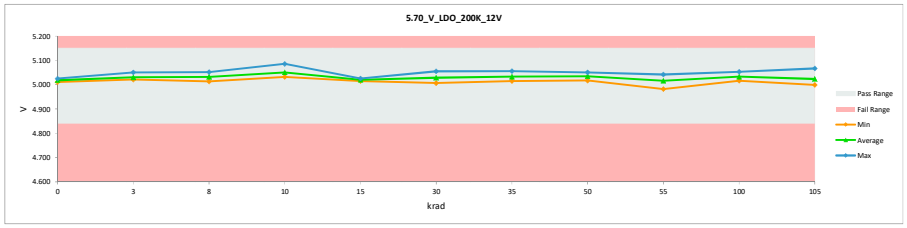
	5.70_V_LDO_200K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.84	4.84

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.011	5.011	0.000
0	236	5.019	5.019	0.000
0	563	5.025	5.025	0.000
3	717	5.033	5.033	0.000
3	685	5.026	5.024	-0.002
3	360	5.049	5.051	0.002
3	427	5.020	5.021	0.001
3	785	5.025	5.023	-0.002
8	770	5.033	5.034	0.001
8	331	5.053	5.052	-0.001
8	279	5.013	5.013	0.000
8	694	5.040	5.040	0.000
8	337	5.024	5.023	-0.001
10	498	5.032	5.032	0.000
10	139	5.088	5.086	-0.002
10	632	5.042	5.035	-0.007
10	465	5.047	5.049	0.002
10	500	5.056	5.052	-0.004
15	209	5.025	5.023	-0.002
15	720	5.028	5.026	-0.002
15	327	5.019	5.016	-0.003
15	700	5.024	5.023	-0.001
15	851	5.018	5.015	-0.003
30	571	5.028	5.023	-0.005
30	172	5.014	5.011	-0.003
30	375	5.052	5.048	-0.004
30	445	5.009	5.007	-0.002
30	103	5.053	5.055	0.002
35	119	5.026	5.021	-0.005
35	90	5.037	5.032	-0.005
35	297	5.017	5.015	-0.002
35	594	5.041	5.041	0.000
35	586	5.058	5.056	-0.002
50	152	5.027	5.017	-0.010
50	359	5.039	5.034	-0.005
50	126	5.032	5.023	-0.009
50	883	5.055	5.051	-0.004
50	117	5.059	5.051	-0.008
55	301	5.033	5.029	-0.004
55	593	5.030	5.023	-0.007
55	374	5.052	5.042	-0.010
55	650	5.014	5.007	-0.007
55	324	4.986	4.982	-0.004
100	562	5.056	5.053	-0.003
100	753	5.051	5.044	-0.007
100	547	5.031	5.016	-0.015
100	724	5.051	5.036	-0.015
100	534	5.038	5.016	-0.022
105	265	5.024	5.013	-0.011
105	482	5.080	5.067	-0.013
105	372	5.023	4.999	-0.024
105	308	5.030	5.016	-0.014
105	438	5.042	5.022	-0.020
	Max	5.088	5.086	0.002
	Average	5.035	5.030	-0.005
	Min	4.986	4.982	-0.024
	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	8	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	5.011	5.021	5.013	5.032	5.015	5.007	5.015	5.017	4.982	5.016	4.999
Average	5.018	5.030	5.032	5.051	5.021	5.029	5.033	5.035	5.017	5.033	5.023
Max	5.025	5.051	5.052	5.086	5.026	5.055	5.056	5.051	5.042	5.053	5.067
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

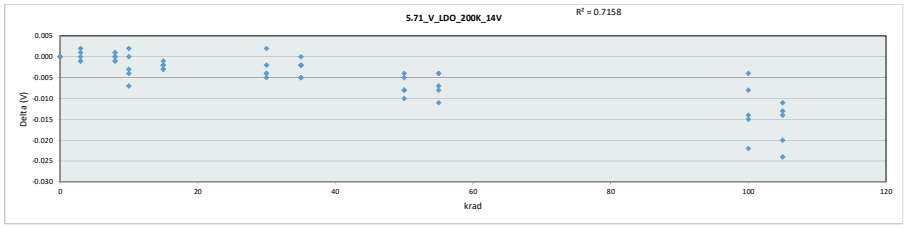


HDR TID Report
TPS7H5003-SP QMLP

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

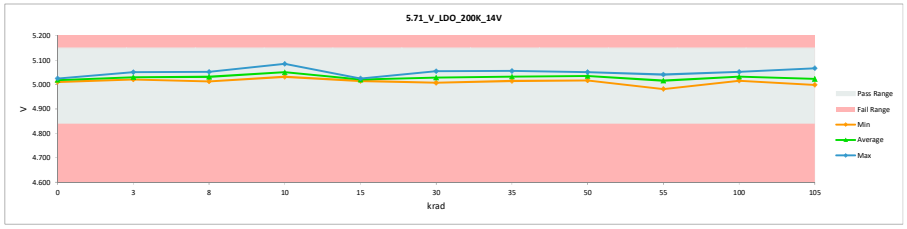
	5.71_V_LDO_200K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.84	4.84

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.011	5.011	0.000
0	236	5.019	5.019	0.000
0	563	5.025	5.025	0.000
3	717	5.033	5.033	0.000
3	685	5.025	5.024	-0.001
3	360	5.049	5.051	0.002
3	427	5.020	5.021	0.001
3	785	5.024	5.023	-0.001
8	770	5.033	5.034	0.001
8	331	5.052	5.052	0.000
8	279	5.013	5.013	0.000
8	694	5.040	5.039	-0.001
8	337	5.024	5.023	-0.001
10	498	5.032	5.032	0.000
10	139	5.088	5.085	-0.003
10	632	5.042	5.035	-0.007
10	465	5.047	5.049	0.002
10	500	5.056	5.052	-0.004
15	209	5.024	5.022	-0.002
15	720	5.028	5.025	-0.003
15	327	5.019	5.016	-0.003
15	700	5.024	5.023	-0.001
15	851	5.017	5.015	-0.002
30	571	5.028	5.023	-0.005
30	172	5.014	5.010	-0.004
30	375	5.052	5.048	-0.004
30	445	5.009	5.007	-0.002
30	103	5.053	5.055	0.002
35	119	5.026	5.021	-0.005
35	90	5.037	5.032	-0.005
35	297	5.017	5.015	-0.002
35	594	5.041	5.041	0.000
35	586	5.058	5.056	-0.002
50	152	5.027	5.017	-0.010
50	359	5.039	5.034	-0.005
50	126	5.031	5.023	-0.008
50	883	5.055	5.051	-0.004
50	117	5.059	5.051	-0.008
55	301	5.033	5.029	-0.004
55	593	5.030	5.023	-0.007
55	374	5.052	5.041	-0.011
55	650	5.014	5.006	-0.008
55	324	4.986	4.982	-0.004
100	562	5.056	5.052	-0.004
100	753	5.051	5.043	-0.008
100	547	5.030	5.016	-0.014
100	724	5.051	5.036	-0.015
100	534	5.038	5.016	-0.022
105	265	5.024	5.013	-0.011
105	482	5.080	5.067	-0.013
105	372	5.023	4.999	-0.024
105	308	5.030	5.016	-0.014
105	438	5.042	5.022	-0.020
	Max	5.088	5.085	0.002
	Average	5.035	5.030	-0.005
	Min	4.986	4.982	-0.024
	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	8	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	5.011	5.021	5.013	5.032	5.015	5.007	5.015	5.017	4.982	5.016	4.999
Average	5.018	5.030	5.032	5.051	5.020	5.029	5.033	5.035	5.016	5.033	5.023
Max	5.025	5.051	5.052	5.085	5.025	5.055	5.056	5.051	5.041	5.052	5.067
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

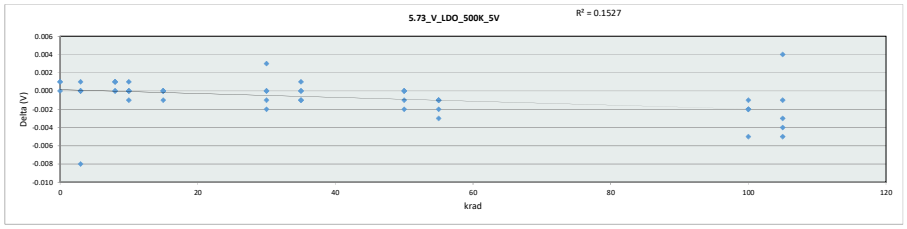


HDR TID Report
TPS7H5003-SP QMLP

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

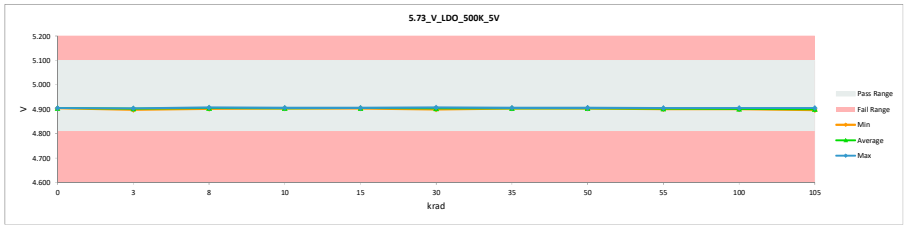
	5.73_V_LDO_500K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.1	5.1
Min Limit	4.81	4.81

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	4.904	4.905	0.001
0	236	4.904	4.904	0.000
0	563	4.904	4.905	0.001
3	717	4.904	4.904	0.000
3	685	4.905	4.897	-0.008
3	360	4.904	4.904	0.000
3	427	4.903	4.903	0.000
3	785	4.903	4.904	0.001
8	770	4.903	4.904	0.001
8	331	4.903	4.904	0.001
8	279	4.906	4.906	0.000
8	694	4.901	4.902	0.001
8	337	4.907	4.907	0.000
10	498	4.902	4.903	0.001
10	139	4.905	4.905	0.000
10	632	4.903	4.903	0.000
10	465	4.906	4.906	0.000
10	500	4.905	4.904	-0.001
15	209	4.904	4.904	0.000
15	720	4.906	4.906	0.000
15	327	4.904	4.903	-0.001
15	700	4.906	4.906	0.000
15	851	4.905	4.905	0.000
30	571	4.896	4.899	0.003
30	172	4.904	4.904	0.000
30	375	4.907	4.907	0.000
30	445	4.906	4.905	-0.001
30	103	4.904	4.902	-0.002
35	119	4.904	4.903	-0.001
35	90	4.903	4.904	0.001
35	297	4.904	4.904	0.000
35	594	4.906	4.906	0.000
35	586	4.904	4.903	-0.001
50	152	4.906	4.904	-0.002
50	359	4.906	4.906	0.000
50	126	4.903	4.903	0.000
50	883	4.906	4.906	0.000
50	117	4.904	4.903	-0.001
55	301	4.903	4.901	-0.002
55	593	4.905	4.904	-0.001
55	374	4.906	4.905	-0.001
55	650	4.903	4.902	-0.001
55	324	4.903	4.900	-0.003
100	562	4.903	4.901	-0.002
100	753	4.904	4.902	-0.002
100	547	4.904	4.902	-0.002
100	724	4.906	4.905	-0.001
100	534	4.905	4.900	-0.005
105	265	4.892	4.896	0.004
105	482	4.906	4.903	-0.003
105	372	4.906	4.905	-0.001
105	308	4.904	4.900	-0.004
105	438	4.904	4.899	-0.005
	Max	4.907	4.907	0.004
	Average	4.904	4.903	-0.001
	Min	4.892	4.896	-0.008
	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	8	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	4.904	4.897	4.902	4.903	4.903	4.899	4.903	4.903	4.900	4.900	4.896
Average	4.905	4.902	4.905	4.904	4.905	4.903	4.904	4.904	4.902	4.902	4.901
Max	4.905	4.904	4.907	4.906	4.906	4.907	4.906	4.906	4.905	4.905	4.905
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

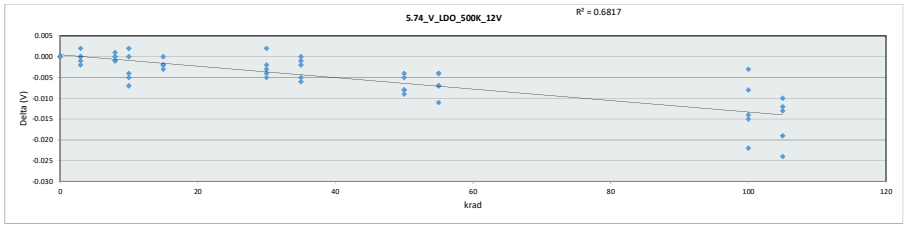


HDR TID Report
TPS7H5003-SP QMLP

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

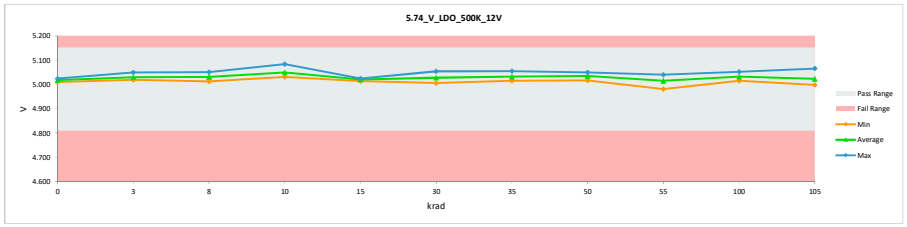
	5.74_V_LDO_500K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.81	4.81

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.010	5.010	0.000
0	236	5.019	5.019	0.000
0	563	5.024	5.024	0.000
3	717	5.032	5.032	0.000
3	685	5.025	5.023	-0.002
3	360	5.048	5.050	0.002
3	427	5.019	5.019	0.000
3	785	5.023	5.022	-0.001
8	770	5.032	5.033	0.001
8	331	5.052	5.051	-0.001
8	279	5.012	5.012	0.000
8	694	5.039	5.039	0.000
8	337	5.023	5.022	-0.001
10	498	5.031	5.031	0.000
10	139	5.088	5.084	-0.004
10	632	5.041	5.034	-0.007
10	465	5.046	5.048	0.002
10	500	5.055	5.050	-0.005
15	209	5.024	5.022	-0.002
15	720	5.027	5.025	-0.002
15	327	5.018	5.015	-0.003
15	700	5.023	5.023	0.000
15	851	5.016	5.014	-0.002
30	571	5.028	5.023	-0.005
30	172	5.013	5.010	-0.003
30	375	5.051	5.047	-0.004
30	445	5.008	5.006	-0.002
30	103	5.052	5.054	0.002
35	119	5.026	5.020	-0.006
35	90	5.036	5.031	-0.005
35	297	5.016	5.015	-0.001
35	594	5.040	5.040	0.000
35	586	5.057	5.055	-0.002
50	152	5.026	5.017	-0.009
50	359	5.038	5.033	-0.005
50	126	5.031	5.023	-0.008
50	883	5.054	5.050	-0.004
50	117	5.058	5.050	-0.008
55	301	5.032	5.028	-0.004
55	593	5.029	5.022	-0.007
55	374	5.051	5.040	-0.011
55	650	5.013	5.006	-0.007
55	324	4.985	4.981	-0.004
100	562	5.055	5.052	-0.003
100	753	5.050	5.042	-0.008
100	547	5.030	5.016	-0.014
100	724	5.050	5.035	-0.015
100	534	5.037	5.015	-0.022
105	265	5.023	5.013	-0.010
105	482	5.079	5.066	-0.013
105	372	5.022	4.998	-0.024
105	308	5.028	5.016	-0.012
105	438	5.041	5.022	-0.019
	Max	5.088	5.084	0.002
	Average	5.034	5.029	-0.005
	Min	4.985	4.981	-0.024
	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	8	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	5.010	5.019	5.012	5.031	5.014	5.006	5.015	5.017	4.981	5.015	4.998
Average	5.018	5.029	5.031	5.049	5.020	5.028	5.032	5.035	5.015	5.032	5.023
Max	5.024	5.050	5.051	5.084	5.025	5.054	5.055	5.050	5.040	5.052	5.066
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

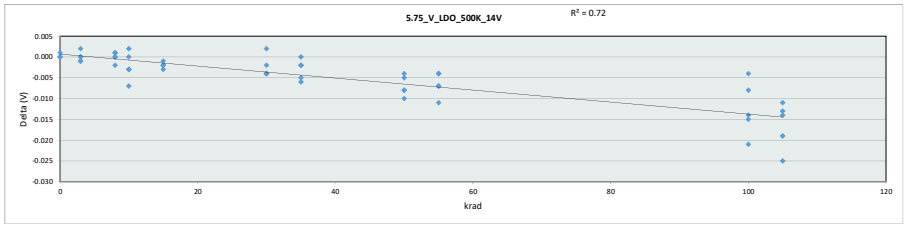


HDR TID Report
TPS7H5003-SP QMLP

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

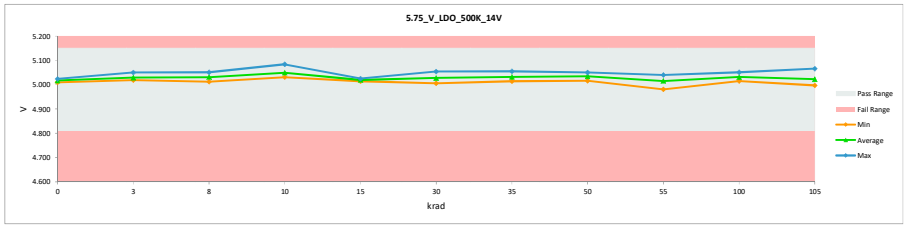
5.75_V_LDO_500K_14V		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.81	4.81

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.010	5.010	0.000
0	236	5.018	5.019	0.001
0	563	5.024	5.024	0.000
3	717	5.032	5.032	0.000
3	685	5.024	5.023	-0.001
3	360	5.048	5.050	0.002
3	427	5.019	5.019	0.000
3	785	5.023	5.022	-0.001
8	770	5.032	5.033	0.001
8	331	5.051	5.051	0.000
8	279	5.012	5.012	0.000
8	694	5.038	5.039	0.001
8	337	5.023	5.021	-0.002
10	498	5.031	5.031	0.000
10	139	5.087	5.084	-0.003
10	632	5.041	5.034	-0.007
10	465	5.046	5.048	0.002
10	500	5.054	5.051	-0.003
15	209	5.024	5.022	-0.002
15	720	5.027	5.025	-0.002
15	327	5.018	5.015	-0.003
15	700	5.023	5.022	-0.001
15	851	5.016	5.014	-0.002
30	571	5.027	5.023	-0.004
30	172	5.013	5.009	-0.004
30	375	5.051	5.047	-0.004
30	445	5.008	5.006	-0.002
30	103	5.052	5.054	0.002
35	119	5.026	5.020	-0.006
35	90	5.036	5.031	-0.005
35	297	5.016	5.014	-0.002
35	594	5.040	5.040	0.000
35	586	5.057	5.055	-0.002
50	152	5.026	5.016	-0.010
50	359	5.038	5.033	-0.005
50	126	5.031	5.023	-0.008
50	883	5.054	5.050	-0.004
50	117	5.058	5.050	-0.008
55	301	5.032	5.028	-0.004
55	593	5.029	5.022	-0.007
55	374	5.051	5.040	-0.011
55	650	5.013	5.006	-0.007
55	324	4.985	4.981	-0.004
100	562	5.055	5.051	-0.004
100	753	5.050	5.042	-0.008
100	547	5.029	5.015	-0.014
100	724	5.050	5.035	-0.015
100	534	5.036	5.015	-0.021
105	265	5.023	5.012	-0.011
105	482	5.079	5.066	-0.013
105	372	5.022	4.997	-0.025
105	308	5.029	5.015	-0.014
105	438	5.041	5.022	-0.019
	Max	5.087	5.084	0.002
	Average	5.034	5.029	-0.005
	Min	4.985	4.981	-0.025
	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	8	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	5.010	5.019	5.012	5.031	5.014	5.006	5.014	5.016	4.981	5.015	4.997
Average	5.018	5.029	5.031	5.050	5.020	5.028	5.032	5.034	5.015	5.032	5.022
Max	5.024	5.050	5.051	5.084	5.025	5.054	5.055	5.050	5.040	5.051	5.066
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

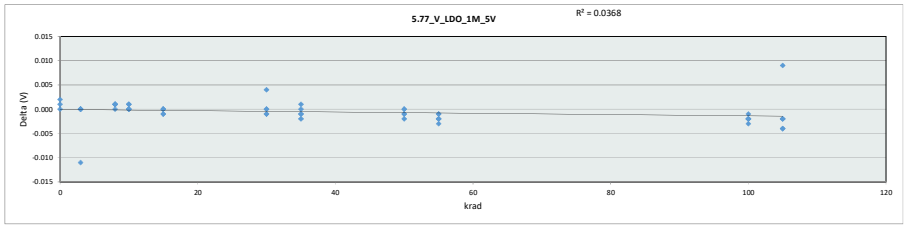


HDR TID Report
TPS7H5003-SP QMLP

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

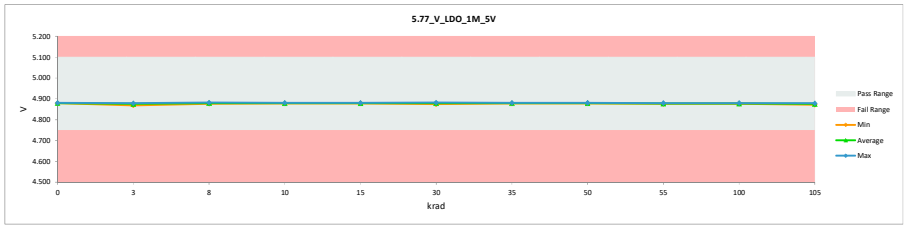
	5.77_V_LDO_1M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.1	5.1
Min Limit	4.75	4.75

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	4.879	4.880	0.001
0	236	4.879	4.879	0.000
0	563	4.879	4.881	0.002
3	717	4.879	4.879	0.000
3	685	4.880	4.869	-0.011
3	360	4.879	4.879	0.000
3	427	4.878	4.878	0.000
3	785	4.878	4.878	0.000
8	770	4.878	4.879	0.001
8	331	4.878	4.879	0.001
8	279	4.881	4.882	0.001
8	694	4.876	4.877	0.001
8	337	4.882	4.882	0.000
10	498	4.877	4.878	0.001
10	139	4.880	4.881	0.001
10	632	4.878	4.878	0.000
10	465	4.881	4.881	0.000
10	500	4.880	4.880	0.000
15	209	4.879	4.878	-0.001
15	720	4.881	4.881	0.000
15	327	4.879	4.878	-0.001
15	700	4.881	4.881	0.000
15	851	4.880	4.880	0.000
30	571	4.870	4.874	0.004
30	172	4.879	4.879	0.000
30	375	4.882	4.882	0.000
30	445	4.881	4.880	-0.001
30	103	4.879	4.878	-0.001
35	119	4.879	4.878	-0.001
35	90	4.878	4.879	0.001
35	297	4.879	4.879	0.000
35	594	4.882	4.881	-0.001
35	586	4.880	4.878	-0.002
50	152	4.881	4.879	-0.002
50	359	4.881	4.881	0.000
50	126	4.878	4.878	0.000
50	883	4.882	4.881	-0.001
50	117	4.879	4.878	-0.001
55	301	4.878	4.876	-0.002
55	593	4.881	4.878	-0.003
55	374	4.881	4.880	-0.001
55	650	4.879	4.878	-0.001
55	324	4.878	4.876	-0.002
100	562	4.878	4.877	-0.001
100	753	4.879	4.877	-0.002
100	547	4.879	4.877	-0.002
100	724	4.882	4.880	-0.002
100	534	4.880	4.877	-0.003
105	265	4.863	4.872	0.009
105	482	4.881	4.879	-0.002
105	372	4.881	4.879	-0.002
105	308	4.879	4.875	-0.004
105	438	4.879	4.875	-0.004
	Max	4.882	4.882	0.009
	Average	4.879	4.878	-0.001
	Min	4.863	4.869	-0.011
	Std Dev	0.003	0.002	0.002



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

krad	0	3	8	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	4.879	4.869	4.877	4.878	4.878	4.874	4.878	4.878	4.876	4.877	4.872
Average	4.880	4.877	4.880	4.880	4.880	4.879	4.879	4.879	4.878	4.878	4.876
Max	4.881	4.879	4.882	4.881	4.881	4.882	4.881	4.881	4.880	4.880	4.879
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

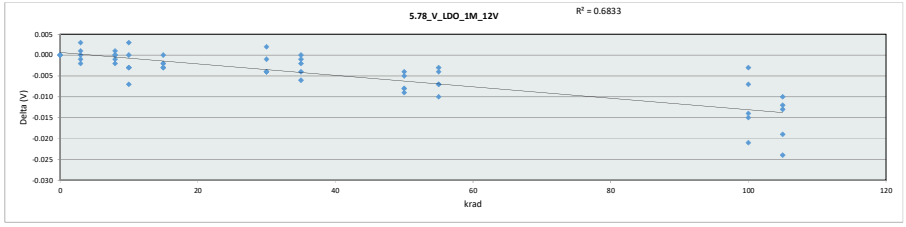


HDR TID Report
TPS7H5003-SP QMLP

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

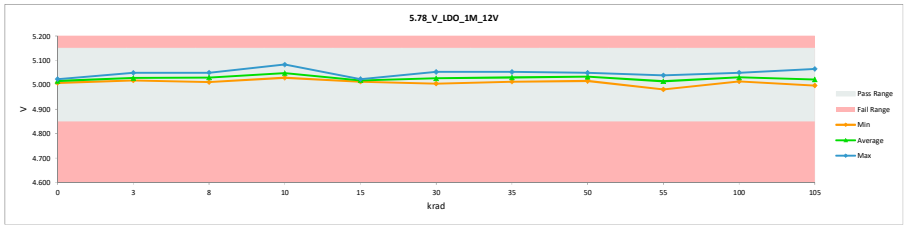
	5.78_V_LDO_1M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.85	4.85

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.008	5.008	0.000
0	236	5.017	5.017	0.000
0	563	5.023	5.023	0.000
3	717	5.031	5.031	0.000
3	685	5.023	5.021	-0.002
3	360	5.046	5.049	0.003
3	427	5.017	5.018	0.001
3	785	5.022	5.021	-0.001
8	770	5.030	5.031	0.001
8	331	5.051	5.050	-0.001
8	279	5.011	5.011	0.000
8	694	5.037	5.037	0.000
8	337	5.022	5.020	-0.002
10	498	5.029	5.029	0.000
10	139	5.086	5.083	-0.003
10	632	5.039	5.032	-0.007
10	465	5.044	5.047	0.003
10	500	5.052	5.049	-0.003
15	209	5.023	5.020	-0.003
15	720	5.026	5.023	-0.003
15	327	5.016	5.014	-0.002
15	700	5.022	5.022	0.000
15	851	5.015	5.013	-0.002
30	571	5.026	5.022	-0.004
30	172	5.012	5.008	-0.004
30	375	5.049	5.045	-0.004
30	445	5.006	5.005	-0.001
30	103	5.051	5.053	0.002
35	119	5.025	5.019	-0.006
35	90	5.034	5.030	-0.004
35	297	5.014	5.013	-0.001
35	594	5.038	5.038	0.000
35	586	5.055	5.053	-0.002
50	152	5.025	5.016	-0.009
50	359	5.036	5.031	-0.005
50	126	5.030	5.022	-0.008
50	883	5.052	5.048	-0.004
50	117	5.057	5.049	-0.008
55	301	5.031	5.027	-0.004
55	593	5.028	5.021	-0.007
55	374	5.049	5.039	-0.010
55	650	5.012	5.005	-0.007
55	324	4.984	4.981	-0.003
100	562	5.053	5.050	-0.003
100	753	5.048	5.041	-0.007
100	547	5.028	5.014	-0.014
100	724	5.048	5.033	-0.015
100	534	5.035	5.014	-0.021
105	265	5.022	5.012	-0.010
105	482	5.077	5.065	-0.012
105	372	5.021	4.997	-0.024
105	308	5.027	5.014	-0.013
105	438	5.039	5.020	-0.019
	Max	5.086	5.083	0.003
	Average	5.032	5.027	-0.005
	Min	4.984	4.981	-0.024
	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	8	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	5.008	5.018	5.011	5.029	5.013	5.005	5.013	5.016	4.981	5.014	4.997
Average	5.016	5.028	5.030	5.048	5.018	5.027	5.031	5.033	5.015	5.030	5.022
Max	5.023	5.049	5.050	5.083	5.023	5.053	5.053	5.049	5.039	5.050	5.065
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

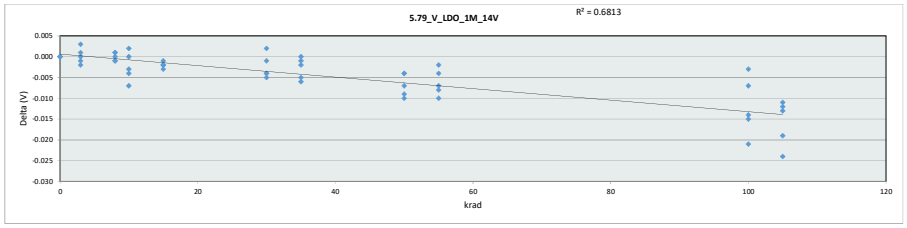


HDR TID Report
TPS7H5003-SP QMLP

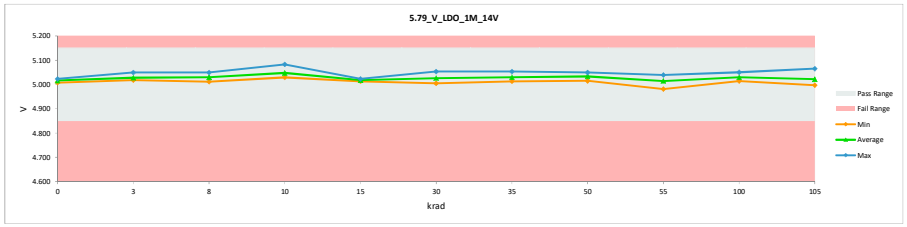
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.008	5.008	0.000
0	236	5.017	5.017	0.000
0	563	5.023	5.023	0.000
3	717	5.031	5.031	0.000
3	685	5.023	5.021	-0.002
3	360	5.046	5.049	0.003
3	427	5.017	5.018	0.001
3	785	5.022	5.021	-0.001
8	770	5.030	5.031	0.001
8	331	5.050	5.049	-0.001
8	279	5.011	5.011	0.000
8	694	5.036	5.037	0.001
8	337	5.021	5.020	-0.001
10	498	5.029	5.029	0.000
10	139	5.086	5.083	-0.003
10	632	5.039	5.032	-0.007
10	465	5.044	5.046	0.002
10	500	5.052	5.048	-0.004
15	209	5.022	5.020	-0.002
15	720	5.026	5.023	-0.003
15	327	5.016	5.014	-0.002
15	700	5.022	5.021	-0.001
15	851	5.015	5.013	-0.002
30	571	5.026	5.021	-0.005
30	172	5.012	5.008	-0.004
30	375	5.049	5.045	-0.004
30	445	5.006	5.005	-0.001
30	103	5.051	5.053	0.002
35	119	5.025	5.019	-0.006
35	90	5.034	5.029	-0.005
35	297	5.014	5.013	-0.001
35	594	5.038	5.038	0.000
35	586	5.055	5.053	-0.002
50	152	5.025	5.015	-0.010
50	359	5.036	5.032	-0.004
50	126	5.030	5.021	-0.009
50	883	5.052	5.048	-0.004
50	117	5.056	5.049	-0.007
55	301	5.031	5.027	-0.004
55	593	5.028	5.020	-0.008
55	374	5.049	5.039	-0.010
55	650	5.012	5.005	-0.007
55	324	4.983	4.981	-0.002
100	562	5.053	5.050	-0.003
100	753	5.048	5.041	-0.007
100	547	5.028	5.014	-0.014
100	724	5.048	5.033	-0.015
100	534	5.035	5.014	-0.021
105	265	5.022	5.011	-0.011
105	482	5.077	5.065	-0.012
105	372	5.021	4.997	-0.024
105	308	5.027	5.014	-0.013
105	438	5.039	5.020	-0.019
	Max	5.086	5.083	0.003
	Average	5.032	5.027	-0.005
	Min	4.983	4.981	-0.024
	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	8	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	5.008	5.018	5.011	5.029	5.013	5.005	5.013	5.015	4.981	5.014	4.997
Average	5.016	5.028	5.030	5.048	5.018	5.026	5.030	5.033	5.014	5.030	5.021
Max	5.023	5.049	5.049	5.083	5.023	5.053	5.053	5.049	5.039	5.050	5.065
UL	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150	5.150

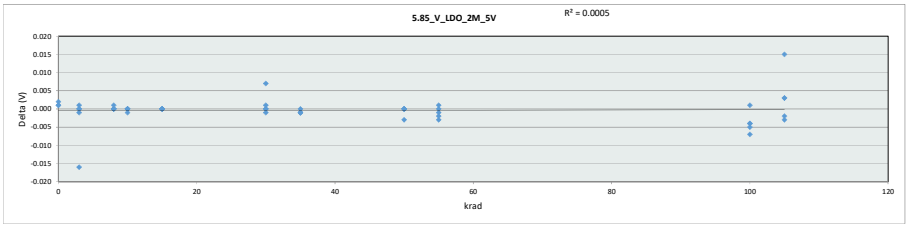


HDR TID Report
TPS7H5003-SP QMLP

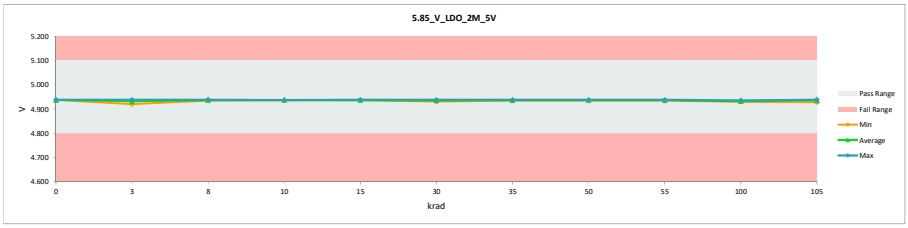
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	4.935	4.937	0.002
0	236	4.936	4.937	0.001
0	563	4.937	4.938	0.001
3	717	4.935	4.934	-0.001
3	685	4.936	4.920	-0.016
3	360	4.935	4.935	0.000
3	427	4.938	4.938	0.000
3	785	4.934	4.935	0.001
8	770	4.935	4.935	0.000
8	331	4.935	4.936	0.001
8	279	4.938	4.938	0.000
8	694	4.934	4.934	0.000
8	337	4.939	4.939	0.000
10	498	4.936	4.936	0.000
10	139	4.937	4.937	0.000
10	632	4.938	4.937	-0.001
10	465	4.937	4.937	0.000
10	500	4.937	4.937	0.000
15	209	4.936	4.936	0.000
15	720	4.937	4.937	0.000
15	327	4.937	4.937	0.000
15	700	4.938	4.938	0.000
15	851	4.936	4.936	0.000
30	571	4.924	4.931	0.007
30	172	4.935	4.936	0.001
30	375	4.938	4.938	0.000
30	445	4.937	4.936	-0.001
30	103	4.934	4.934	0.000
35	119	4.937	4.936	-0.001
35	90	4.936	4.936	0.000
35	297	4.936	4.935	-0.001
35	594	4.939	4.938	-0.001
35	586	4.937	4.936	-0.001
50	152	4.938	4.938	0.000
50	359	4.938	4.938	0.000
50	126	4.934	4.934	0.000
50	883	4.939	4.936	-0.003
50	117	4.936	4.936	0.000
55	301	4.935	4.934	-0.001
55	593	4.938	4.938	0.000
55	374	4.936	4.937	0.001
55	650	4.939	4.937	-0.002
55	324	4.937	4.934	-0.003
100	562	4.934	4.930	-0.004
100	753	4.935	4.936	0.001
100	547	4.936	4.931	-0.005
100	724	4.938	4.934	-0.004
100	534	4.937	4.930	-0.007
105	265	4.913	4.928	0.015
105	482	4.939	4.937	-0.002
105	372	4.936	4.939	0.003
105	308	4.938	4.935	-0.003
105	438	4.935	4.938	0.003
	Max	4.939	4.939	0.015
	Average	4.936	4.935	0.000
	Min	4.913	4.920	-0.016
	Std Dev	0.004	0.003	0.004



	5.85_V_LDO_2M_5V										
Test Site											
Tester											
Test Number											
Max Limit	5.1	V									
Min Limit	4.8	V									
krad	0	3	8	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	4.937	4.920	4.934	4.936	4.936	4.931	4.935	4.934	4.934	4.930	4.928
Average	4.937	4.932	4.936	4.937	4.937	4.935	4.936	4.936	4.936	4.932	4.935
Max	4.938	4.938	4.939	4.937	4.938	4.938	4.938	4.938	4.938	4.936	4.939
UL	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100	5.100

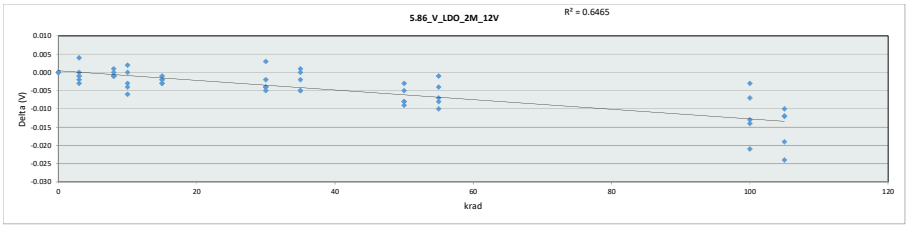


HDR TID Report
TPS7H5003-SP QMLP

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

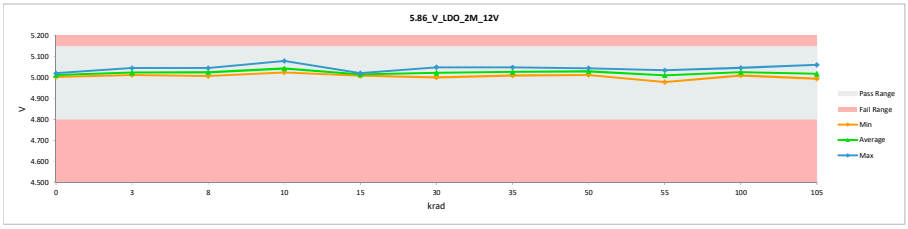
	5.86_V_LDO_2M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.8	4.8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.004	5.004	0.000
0	236	5.014	5.014	0.000
0	563	5.021	5.021	0.000
3	717	5.028	5.027	-0.001
3	685	5.020	5.017	-0.003
3	360	5.042	5.046	0.004
3	427	5.013	5.013	0.000
3	785	5.020	5.018	-0.002
8	770	5.026	5.027	0.001
8	331	5.047	5.046	-0.001
8	279	5.008	5.007	-0.001
8	694	5.032	5.032	0.000
8	337	5.017	5.016	-0.001
10	498	5.025	5.025	0.000
10	139	5.083	5.080	-0.003
10	632	5.034	5.028	-0.006
10	465	5.040	5.042	0.002
10	500	5.048	5.044	-0.004
15	209	5.020	5.017	-0.003
15	720	5.023	5.021	-0.002
15	327	5.012	5.010	-0.002
15	700	5.019	5.018	-0.001
15	851	5.012	5.009	-0.003
30	571	5.024	5.019	-0.005
30	172	5.008	5.004	-0.004
30	375	5.045	5.041	-0.004
30	445	5.003	5.001	-0.002
30	103	5.047	5.050	0.003
35	119	5.023	5.018	-0.005
35	90	5.031	5.026	-0.005
35	297	5.010	5.010	0.000
35	594	5.034	5.035	0.001
35	586	5.051	5.049	-0.002
50	152	5.022	5.013	-0.009
50	359	5.033	5.028	-0.005
50	126	5.027	5.019	-0.008
50	883	5.047	5.044	-0.003
50	117	5.053	5.045	-0.008
55	301	5.028	5.024	-0.004
55	593	5.024	5.017	-0.007
55	374	5.045	5.035	-0.010
55	650	5.010	5.002	-0.008
55	324	4.980	4.979	-0.001
100	562	5.050	5.047	-0.003
100	753	5.044	5.037	-0.007
100	547	5.023	5.010	-0.013
100	724	5.043	5.029	-0.014
100	534	5.032	5.011	-0.021
105	265	5.019	5.009	-0.010
105	482	5.073	5.061	-0.012
105	372	5.019	4.995	-0.024
105	308	5.023	5.011	-0.012
105	438	5.036	5.017	-0.019
	Max	5.083	5.080	0.004
	Average	5.029	5.024	-0.005
	Min	4.980	4.979	-0.024
	Std Dev	0.018	0.018	0.006



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

krad	0	3	8	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	5.004	5.013	5.007	5.025	5.009	5.001	5.010	5.013	4.979	5.010	4.995
Average	5.013	5.024	5.026	5.044	5.015	5.023	5.028	5.030	5.011	5.027	5.019
Max	5.021	5.046	5.046	5.080	5.021	5.050	5.049	5.045	5.035	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

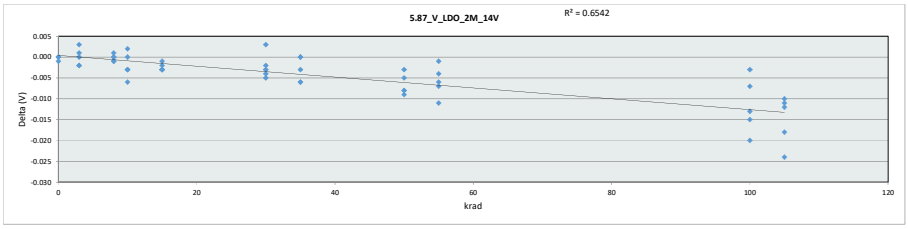


HDR TID Report
TPS7H5003-SP QMLP

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

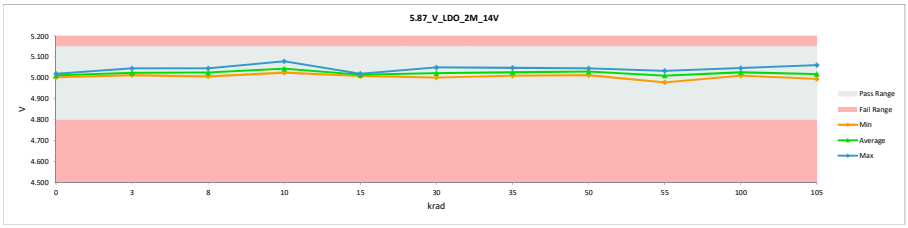
	5.87_V_LDO_2M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.15	5.15
Min Limit	4.8	4.8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	5.004	5.003	-0.001
0	236	5.013	5.013	0.000
0	563	5.020	5.020	0.000
3	717	5.027	5.027	0.000
3	685	5.019	5.017	-0.002
3	360	5.042	5.045	0.003
3	427	5.012	5.013	0.001
3	785	5.019	5.017	-0.002
8	770	5.026	5.027	0.001
8	331	5.047	5.046	-0.001
8	279	5.007	5.007	0.000
8	694	5.032	5.032	0.000
8	337	5.017	5.016	-0.001
10	498	5.025	5.025	0.000
10	139	5.082	5.079	-0.003
10	632	5.034	5.028	-0.006
10	465	5.040	5.042	0.002
10	500	5.047	5.044	-0.003
15	209	5.019	5.016	-0.003
15	720	5.023	5.020	-0.003
15	327	5.012	5.010	-0.002
15	700	5.019	5.018	-0.001
15	851	5.012	5.009	-0.003
30	571	5.024	5.019	-0.005
30	172	5.007	5.004	-0.003
30	375	5.045	5.041	-0.004
30	445	5.003	5.001	-0.002
30	103	5.047	5.050	0.003
35	119	5.023	5.017	-0.006
35	90	5.031	5.025	-0.006
35	297	5.010	5.010	0.000
35	594	5.034	5.034	0.000
35	586	5.051	5.048	-0.003
50	152	5.022	5.013	-0.009
50	359	5.033	5.028	-0.005
50	126	5.027	5.019	-0.008
50	883	5.047	5.044	-0.003
50	117	5.053	5.045	-0.008
55	301	5.027	5.023	-0.004
55	593	5.023	5.017	-0.006
55	374	5.045	5.034	-0.011
55	650	5.009	5.002	-0.007
55	324	4.980	4.979	-0.001
100	562	5.050	5.047	-0.003
100	753	5.044	5.037	-0.007
100	547	5.023	5.010	-0.013
100	724	5.043	5.028	-0.015
100	534	5.031	5.011	-0.020
105	265	5.019	5.009	-0.010
105	482	5.072	5.061	-0.011
105	372	5.019	4.995	-0.024
105	308	5.023	5.011	-0.012
105	438	5.035	5.017	-0.018
	Max	5.082	5.079	0.003
	Average	5.028	5.024	-0.005
	Min	4.980	4.979	-0.024
	Std Dev	0.018	0.018	0.006



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

krad	0	3	8	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	5.003	5.013	5.007	5.025	5.009	5.001	5.010	5.013	4.979	5.010	4.995
Average	5.012	5.024	5.026	5.044	5.015	5.023	5.027	5.030	5.011	5.027	5.019
Max	5.020	5.045	5.046	5.079	5.020	5.050	5.048	5.045	5.034	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

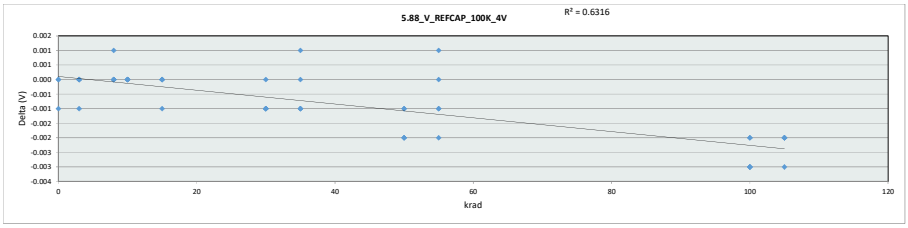


HDR TID Report
TPS7H5003-SP QMLP

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

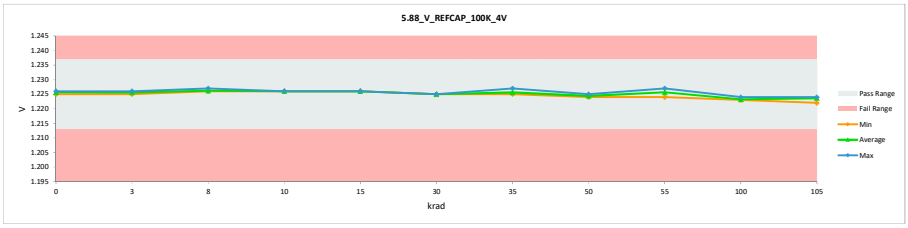
	5.88_V_REFCAP_100K_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.226	0.000
0	563	1.226	1.225	-0.001
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.225	1.225	0.000
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.226	1.226	0.000
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.226	1.225	-0.001
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.226	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

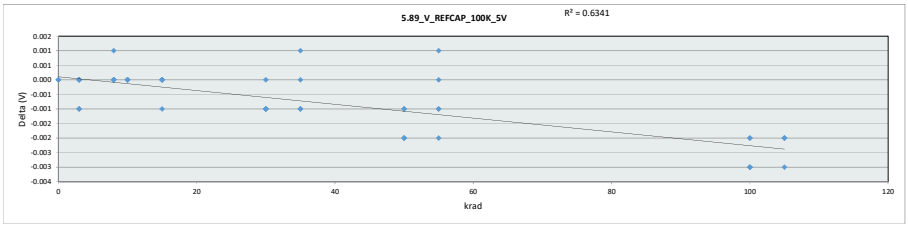


HDR TID Report
TPS7H5003-SP QMLP

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

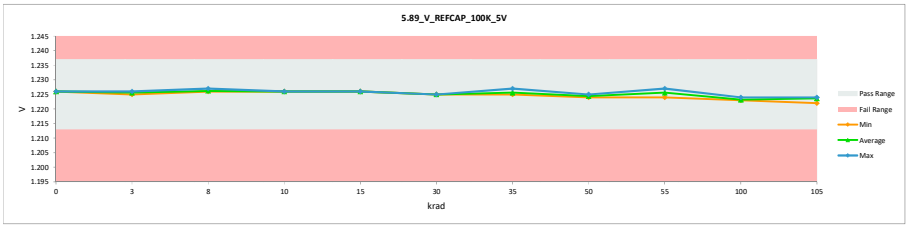
	5.89_V_REFCAP_100K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.226	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.225	-0.001
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.226	1.226	0.000
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.226	1.225	-0.001
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.226	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

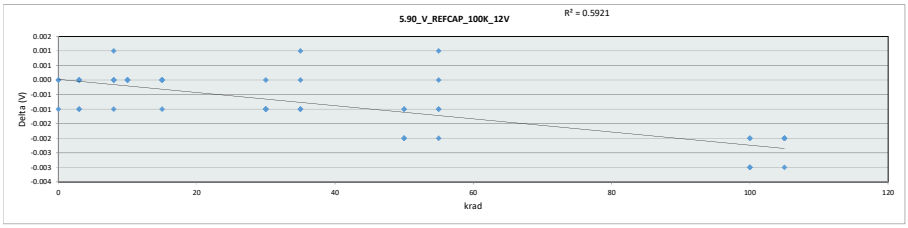


HDR TID Report
TPS7H5003-SP QMLP

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

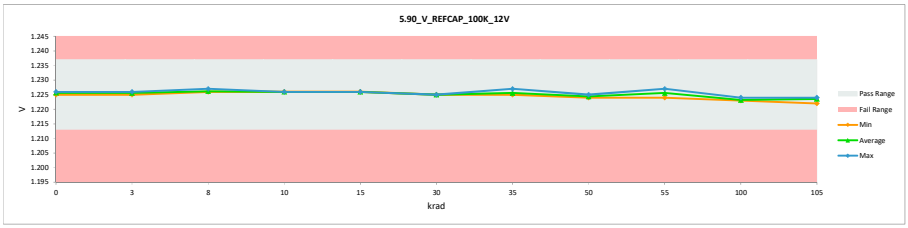
	5.90_V_REFCAP_100K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.226	0.000
0	563	1.226	1.225	-0.001
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.225	-0.001
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.226	1.225	-0.001
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.226	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

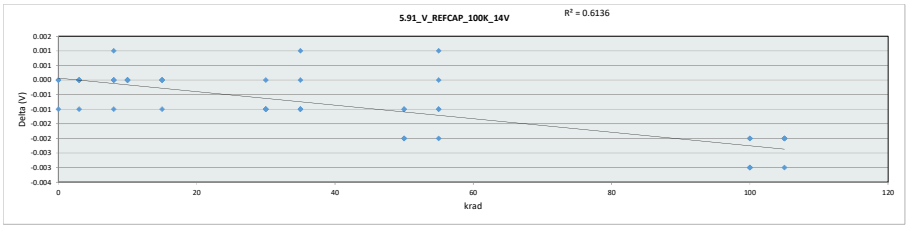


HDR TID Report
TPS7H5003-SP QMLP

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

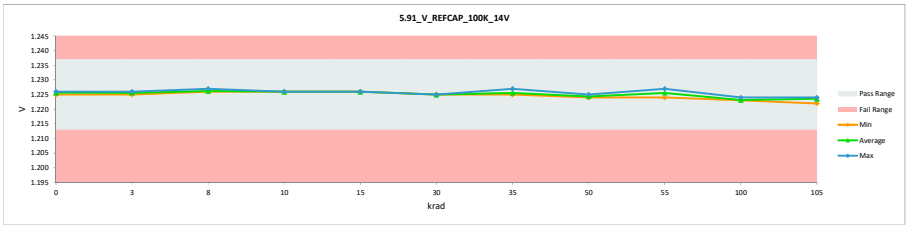
	5.91_V_REFCAP_100K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.226	0.000
0	563	1.226	1.225	-0.001
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.225	1.225	0.000
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.226	1.225	-0.001
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.226	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

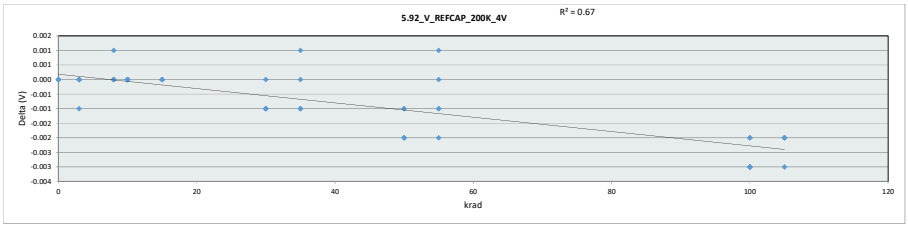


HDR TID Report
TPS7H5003-SP QMLP

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

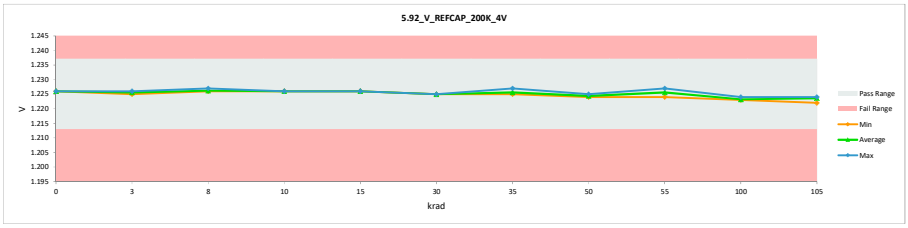
	5.92_V_REFCAP_200K_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.226	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.225	1.225	0.000
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.226	1.226	0.000
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.226	1.226	0.000
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.226	1.225	-0.001
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	0.001



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

krad	0	3	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.226	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

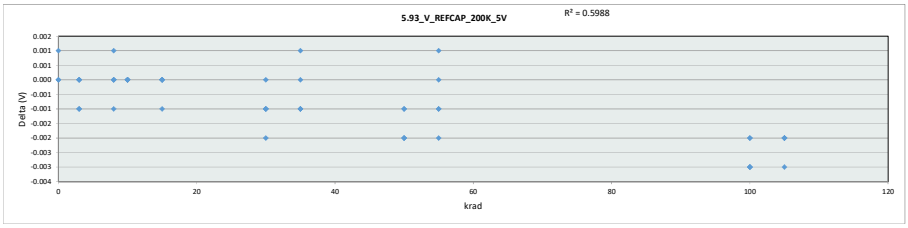


HDR TID Report
TPS7H5003-SP QMLP

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

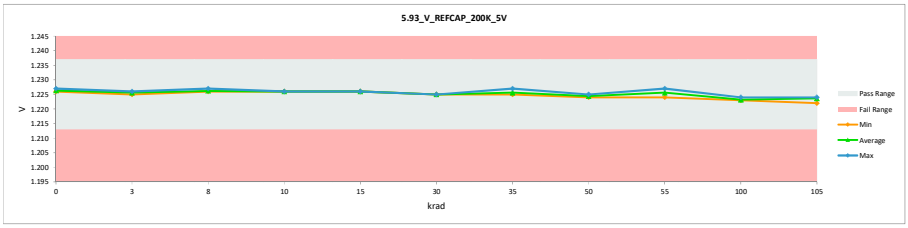
	5.93_V_REFCAP_200K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.227	0.001
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.225	-0.001
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.225	-0.002
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

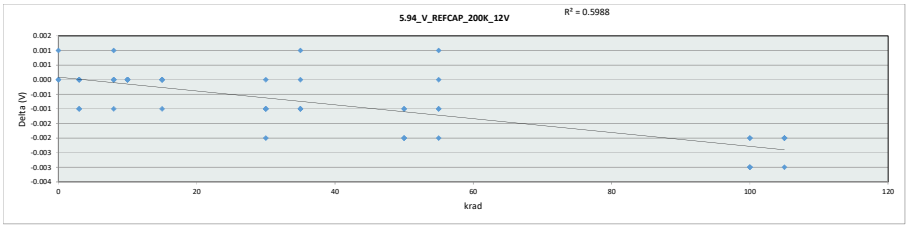


HDR TID Report
TPS7H5003-SP QMLP

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

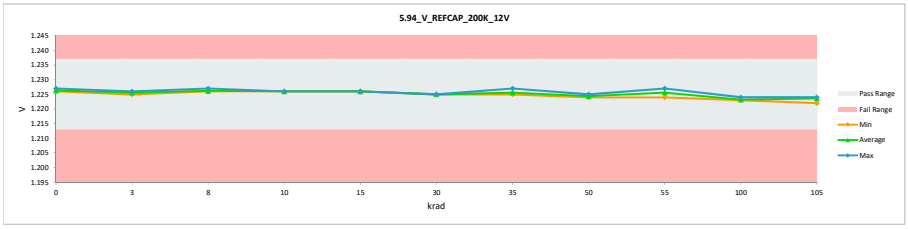
	5.94_V_REFCAP_200K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.227	0.001
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.225	-0.001
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.225	-0.002
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

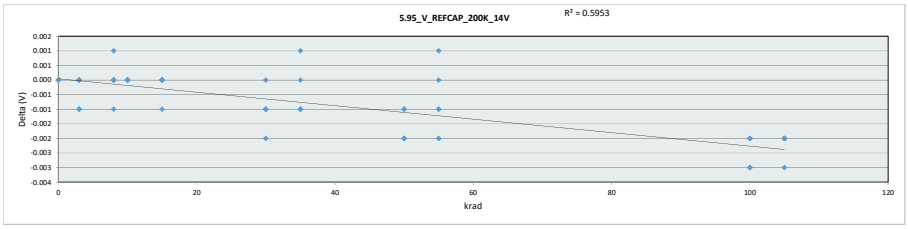


HDR TID Report
TPS7H5003-SP QMLP

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

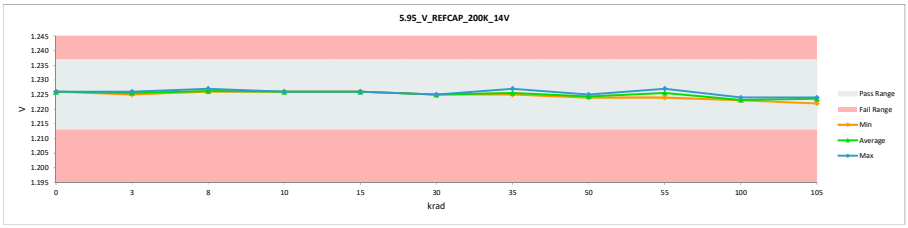
	5.95_V_REFCAP_200K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.226	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.225	-0.001
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.226	1.226	0.000
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.226	1.226	0.000
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.225	-0.002
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.224	-0.002
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.227	1.226	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.225	1.223	-0.002
105	265	1.226	1.224	-0.002
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.227	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.226	1.223	1.224
Max	1.226	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.224
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

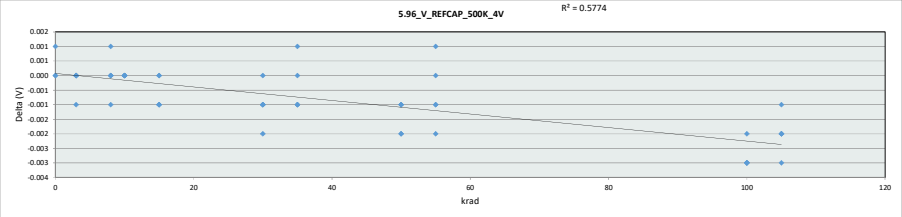


HDR TID Report
TPS7H5003-SP QMLP

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

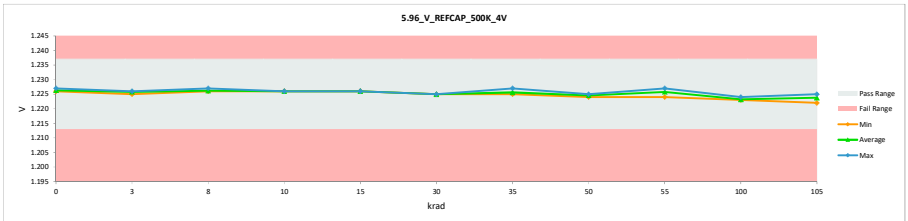
	5.96_V_REFCAP_500K_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.227	0.001
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.226	0.000
3	427	1.226	1.225	-0.001
3	785	1.226	1.226	0.000
8	770	1.226	1.226	0.000
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.226	-0.001
30	571	1.225	1.225	0.000
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.225	-0.002
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.228	1.227	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.226	1.224	-0.002
105	438	1.226	1.224	-0.002
	Max	1.228	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.225	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

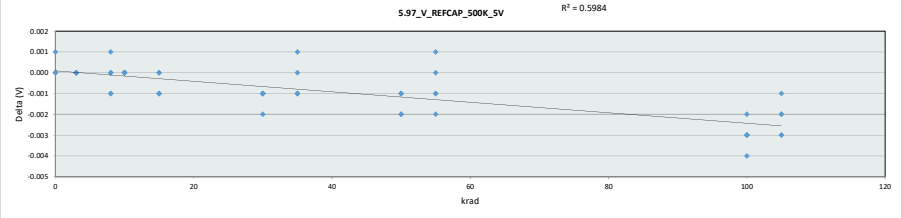


HDR TID Report
TPS7H5003-SP QMLP

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

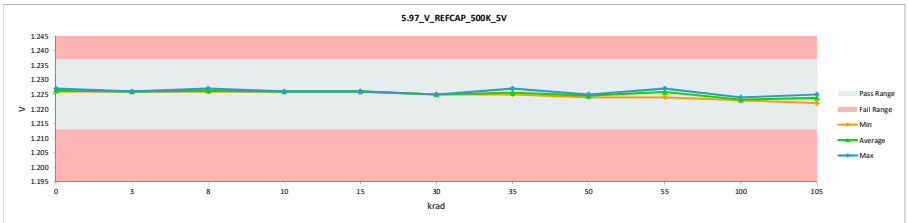
	5.97_V_REFCAP_500K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.227	0.001
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.226	-0.001
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.226	-0.001
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.225	-0.002
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.228	1.227	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.004
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.225	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

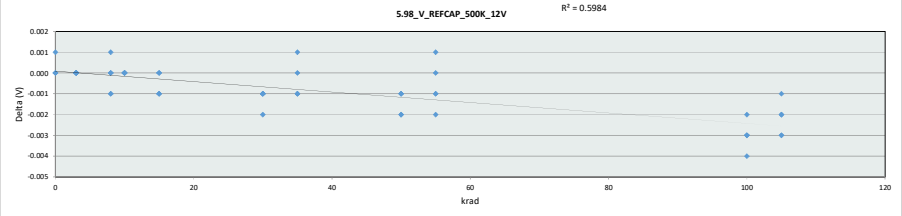


HDR TID Report
TPS7H5003-SP QMLP

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

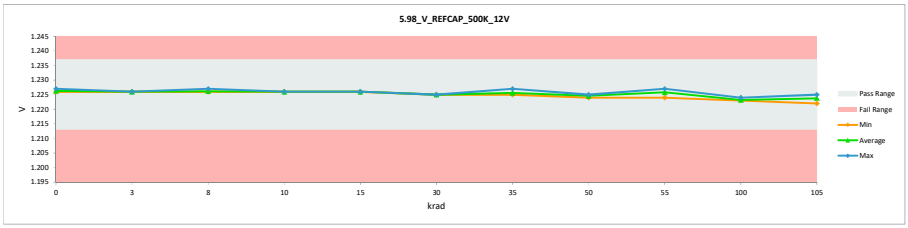
	5.98_V_REFCAP_500K_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.227	0.001
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.226	-0.001
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.226	-0.001
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.225	-0.002
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.228	1.227	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.004
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.225	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

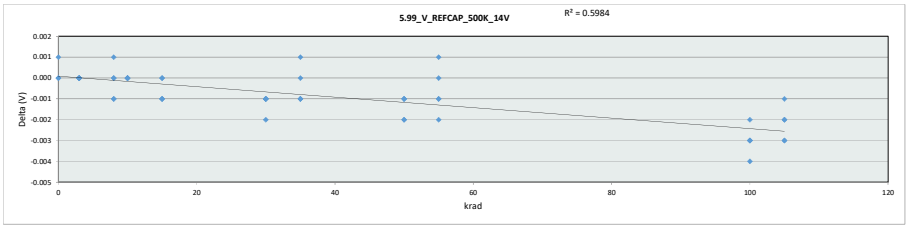


HDR TID Report
TPS7H5003-SP QMLP

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

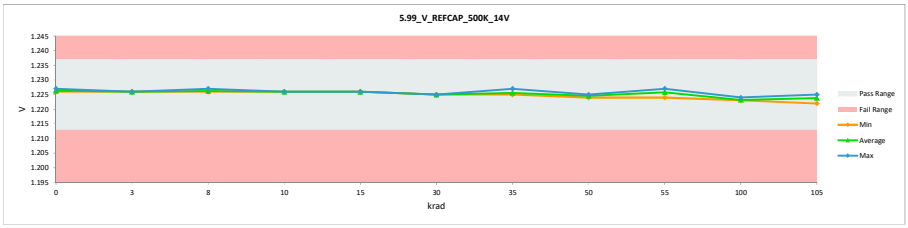
	5.99_V_REFCAP_500K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.226	1.227	0.001
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.226	-0.001
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.226	-0.001
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.225	-0.002
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.228	1.227	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.004
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.225	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.226	1.225	1.227	1.225	1.227	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

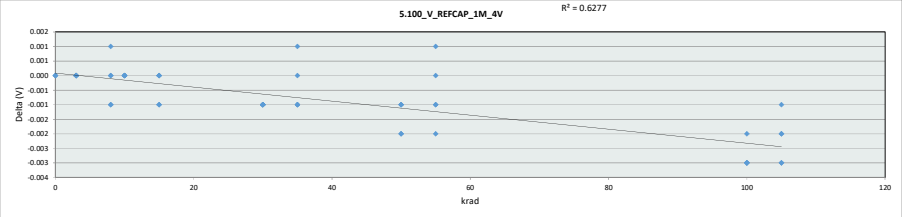


HDR TID Report
TPS7H5003-SP QMLP

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

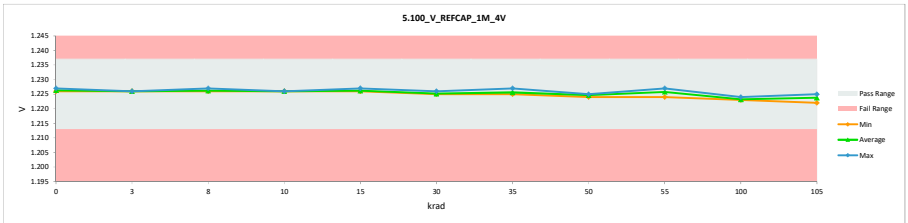
	5.100_V_REFCAP_1M_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.226	-0.001
8	331	1.227	1.226	-0.001
8	279	1.226	1.226	0.000
8	694	1.226	1.227	0.001
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.226	-0.001
30	103	1.226	1.225	-0.001
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.226	1.226	0.000
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.228	1.227	-0.001
55	324	1.226	1.227	0.001
100	562	1.226	1.223	-0.003
100	753	1.226	1.223	-0.003
100	547	1.226	1.224	-0.002
100	724	1.226	1.223	-0.003
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.227	0.001
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.000	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.225	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.227	1.226	1.227	1.225	1.227	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

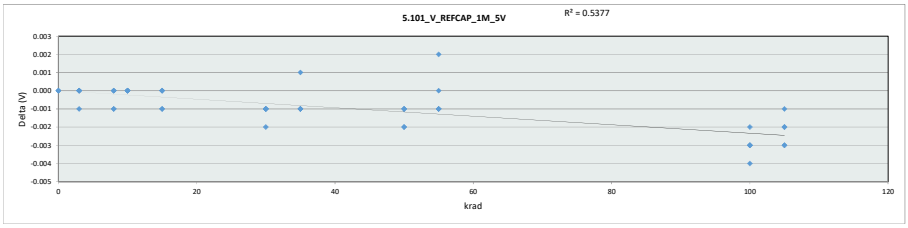


HDR TID Report
TPS7H5003-SP QMLP

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

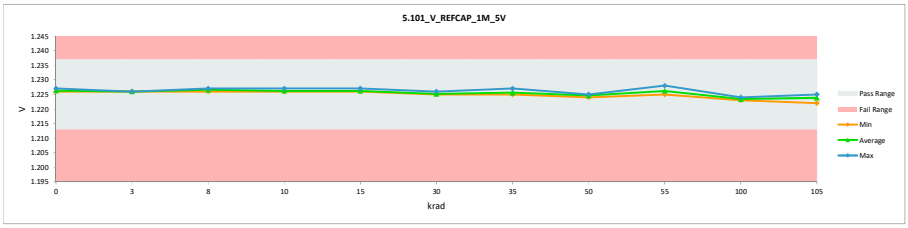
	5.101_V_REFCAP_1M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.227	0.000
8	331	1.227	1.227	0.000
8	279	1.227	1.226	-0.001
8	694	1.227	1.227	0.000
8	337	1.227	1.226	-0.001
10	498	1.227	1.227	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.225	-0.002
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.227	1.226	-0.001
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.225	-0.001
55	650	1.228	1.227	-0.001
55	324	1.226	1.228	0.002
100	562	1.226	1.223	-0.003
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.228	0.002
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.004
	Std Dev	0.001	0.001	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	8	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	1.225	1.225	1.224	1.225	1.223	1.222
Average	1.226	1.226	1.227	1.226	1.226	1.225	1.226	1.225	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.227	1.227	1.226	1.227	1.225	1.228	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

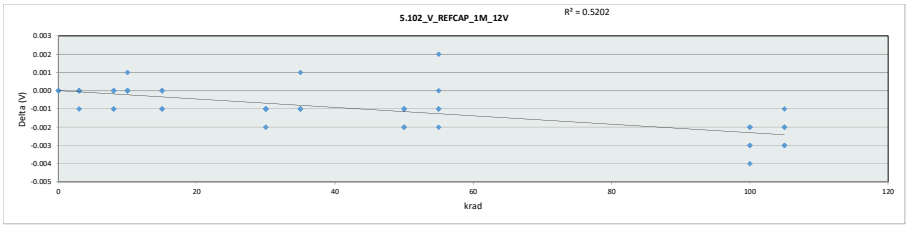


HDR TID Report
TPS7H5003-SP QMLP

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

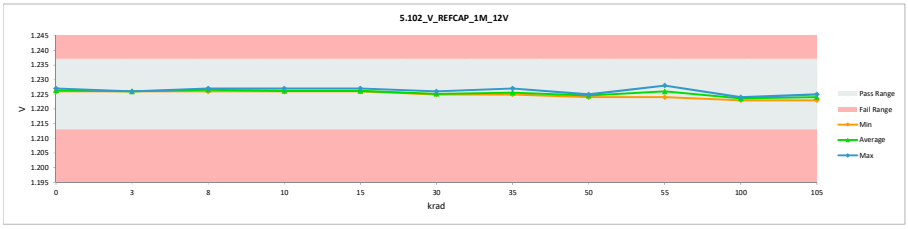
	5.102_V_REFCAP_1M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.227	0.000
8	331	1.227	1.227	0.000
8	279	1.227	1.226	-0.001
8	694	1.227	1.227	0.000
8	337	1.227	1.226	-0.001
10	498	1.226	1.227	0.001
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.225	-0.002
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.227	1.226	-0.001
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.228	1.227	-0.001
55	324	1.226	1.228	0.002
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.228	0.002
	Average	1.226	1.225	-0.001
	Min	1.226	1.223	-0.004
	Std Dev	0.001	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.223
Average	1.226	1.226	1.227	1.226	1.226	1.225	1.226	1.225	1.226	1.224	1.224
Max	1.227	1.226	1.227	1.227	1.227	1.226	1.227	1.225	1.228	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

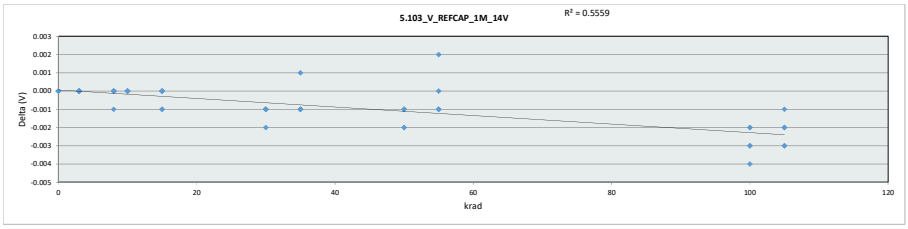


HDR TID Report
TPS7H5003-SP QMLP

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

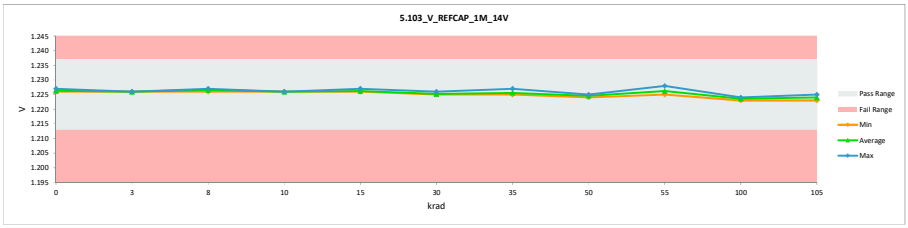
	5.103_V_REFCAP_1M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.227	0.000
8	331	1.227	1.227	0.000
8	279	1.227	1.226	-0.001
8	694	1.227	1.227	0.000
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.225	-0.002
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.227	1.226	-0.001
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.225	-0.001
55	650	1.228	1.227	-0.001
55	324	1.226	1.228	0.002
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.228	0.002
	Average	1.226	1.225	-0.001
	Min	1.226	1.223	-0.004
	Std Dev	0.001	0.001	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	8	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	1.225	1.225	1.224	1.225	1.223	1.223
Average	1.226	1.226	1.227	1.226	1.226	1.225	1.226	1.225	1.226	1.224	1.224
Max	1.227	1.226	1.227	1.226	1.227	1.226	1.227	1.225	1.228	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

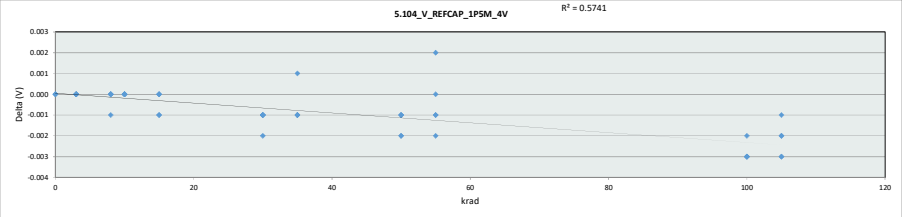


HDR TID Report
TPS7H5003-SP QMLP

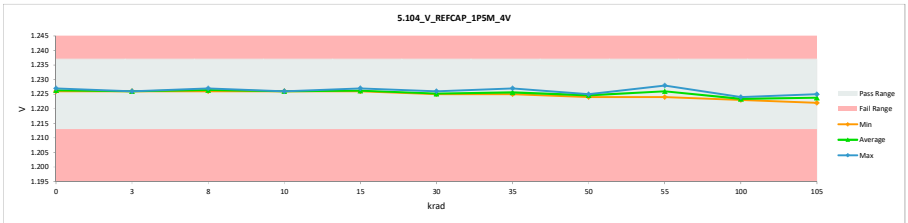
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	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 #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.226	1.226	0.000
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.226	1.226	0.000
8	770	1.227	1.226	-0.001
8	331	1.227	1.227	0.000
8	279	1.226	1.226	0.000
8	694	1.227	1.227	0.000
8	337	1.226	1.226	0.000
10	498	1.226	1.226	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.225	-0.002
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.227	0.001
35	594	1.227	1.226	-0.001
35	586	1.226	1.225	-0.001
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.224	-0.002
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.224	-0.002
55	650	1.228	1.227	-0.001
55	324	1.226	1.228	0.002
100	562	1.226	1.223	-0.003
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.226	1.223	-0.003
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.226	1.224	-0.002
105	372	1.225	1.222	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.228	0.002
	Average	1.226	1.225	-0.001
	Min	1.225	1.222	-0.003
	Std Dev	0.001	0.001	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	8	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	1.225	1.225	1.224	1.224	1.223	1.222
Average	1.226	1.226	1.226	1.226	1.226	1.225	1.226	1.225	1.226	1.223	1.224
Max	1.227	1.226	1.227	1.226	1.227	1.226	1.227	1.225	1.228	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

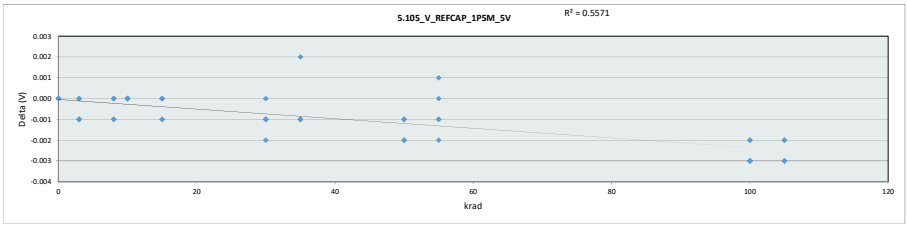


HDR TID Report
TPS7H5003-SP QMLP

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

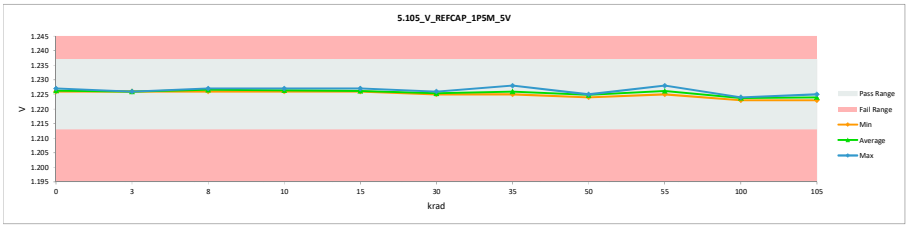
	5.105_V_REFCAP_1P5M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.227	1.226	-0.001
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.227	1.226	-0.001
8	770	1.227	1.227	0.000
8	331	1.227	1.227	0.000
8	279	1.227	1.226	-0.001
8	694	1.227	1.227	0.000
8	337	1.227	1.226	-0.001
10	498	1.227	1.227	0.000
10	139	1.227	1.227	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.226	0.000
30	445	1.227	1.226	-0.001
30	103	1.227	1.225	-0.002
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.228	0.002
35	594	1.227	1.226	-0.001
35	586	1.227	1.226	-0.001
50	152	1.227	1.225	-0.002
50	359	1.226	1.225	-0.001
50	126	1.226	1.225	-0.001
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.227	1.225	-0.002
55	650	1.228	1.227	-0.001
55	324	1.227	1.228	0.001
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.224	-0.003
100	534	1.226	1.223	-0.003
105	265	1.227	1.225	-0.002
105	482	1.227	1.224	-0.003
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.228	0.002
	Average	1.227	1.226	-0.001
	Min	1.226	1.223	-0.003
	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	8	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	1.225	1.225	1.224	1.225	1.223	1.223
Average	1.226	1.226	1.227	1.226	1.226	1.225	1.226	1.225	1.226	1.224	1.224
Max	1.227	1.226	1.227	1.227	1.227	1.226	1.228	1.225	1.228	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

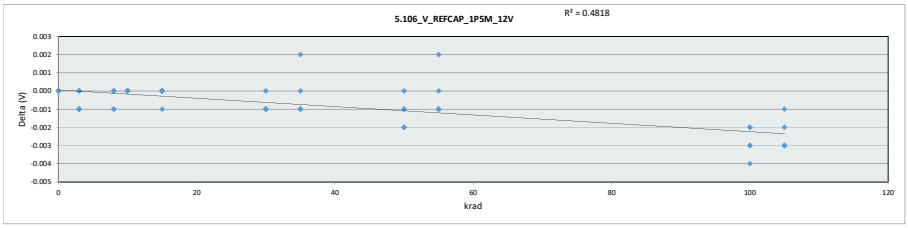


HDR TID Report
TPS7H5003-SP QMLP

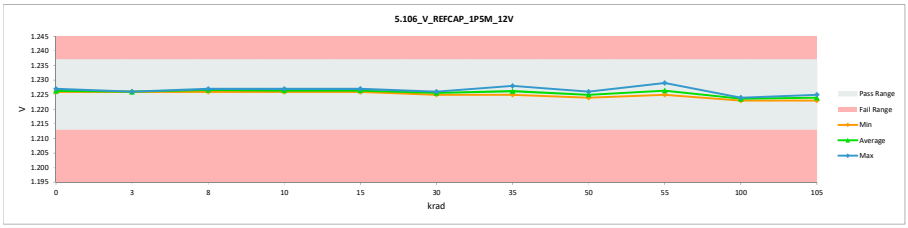
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	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 #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.227	1.226	-0.001
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.227	1.226	-0.001
8	770	1.227	1.227	0.000
8	331	1.227	1.227	0.000
8	279	1.227	1.226	-0.001
8	694	1.227	1.227	0.000
8	337	1.227	1.226	-0.001
10	498	1.227	1.227	0.000
10	139	1.227	1.227	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.227	0.000
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.226	0.000
30	445	1.227	1.226	-0.001
30	103	1.227	1.226	-0.001
35	119	1.226	1.226	0.000
35	90	1.226	1.225	-0.001
35	297	1.226	1.228	0.002
35	594	1.227	1.226	-0.001
35	586	1.227	1.226	-0.001
50	152	1.227	1.225	-0.002
50	359	1.226	1.225	-0.001
50	126	1.226	1.225	-0.001
50	883	1.226	1.224	-0.002
50	117	1.226	1.226	0.000
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.225	-0.001
55	650	1.228	1.227	-0.001
55	324	1.227	1.229	0.002
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.227	1.224	-0.003
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.229	0.002
	Average	1.226	1.226	-0.001
	Min	1.226	1.223	-0.004
	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	8	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	1.225	1.225	1.224	1.225	1.223	1.223
Average	1.226	1.226	1.227	1.226	1.226	1.226	1.226	1.225	1.226	1.224	1.224
Max	1.227	1.226	1.227	1.227	1.227	1.226	1.228	1.226	1.229	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

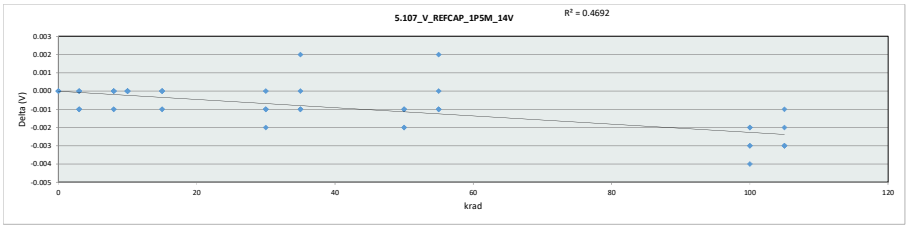


HDR TID Report
TPS7H5003-SP QMLP

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

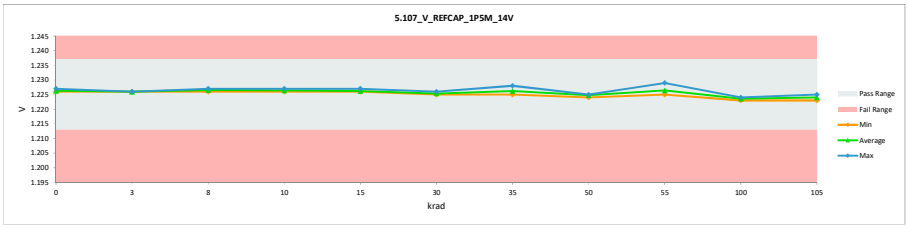
	5.107_V_REFCAP_1P5M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.227	1.226	-0.001
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.227	1.226	-0.001
8	770	1.227	1.227	0.000
8	331	1.227	1.227	0.000
8	279	1.227	1.226	-0.001
8	694	1.227	1.227	0.000
8	337	1.227	1.226	-0.001
10	498	1.227	1.227	0.000
10	139	1.227	1.227	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.226	0.000
30	445	1.227	1.226	-0.001
30	103	1.227	1.225	-0.002
35	119	1.226	1.226	0.000
35	90	1.226	1.225	-0.001
35	297	1.226	1.228	0.002
35	594	1.227	1.226	-0.001
35	586	1.227	1.226	-0.001
50	152	1.227	1.225	-0.002
50	359	1.226	1.225	-0.001
50	126	1.226	1.225	-0.001
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.226	1.225	-0.001
55	650	1.228	1.227	-0.001
55	324	1.227	1.229	0.002
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.227	1.224	-0.003
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.229	0.002
	Average	1.226	1.226	-0.001
	Min	1.226	1.223	-0.004
	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	8	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	1.225	1.225	1.224	1.225	1.223	1.223
Average	1.226	1.226	1.227	1.226	1.226	1.225	1.226	1.225	1.226	1.224	1.224
Max	1.227	1.226	1.227	1.227	1.227	1.226	1.228	1.225	1.229	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

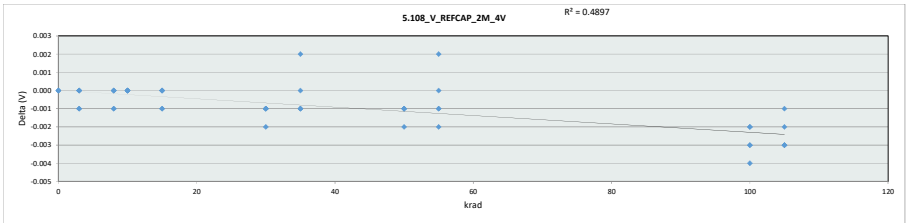


HDR TID Report
TPS7H5003-SP QMLP

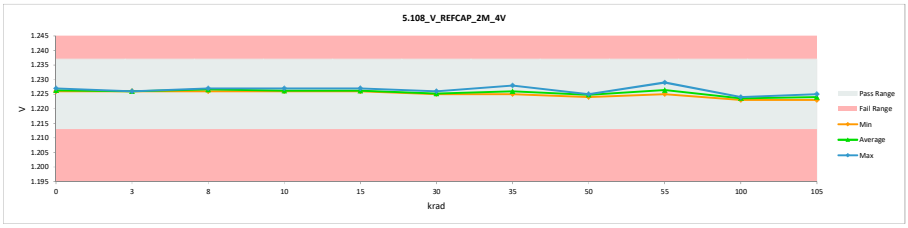
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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 #	PRE_HDR	POST_HDR	Delta
0	797	1.226	1.226	0.000
0	236	1.227	1.227	0.000
0	563	1.226	1.226	0.000
3	717	1.226	1.226	0.000
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.227	1.226	-0.001
8	770	1.227	1.227	0.000
8	331	1.227	1.227	0.000
8	279	1.227	1.226	-0.001
8	694	1.227	1.227	0.000
8	337	1.227	1.226	-0.001
10	498	1.227	1.227	0.000
10	139	1.226	1.226	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.226	0.000
10	500	1.226	1.226	0.000
15	209	1.227	1.226	-0.001
15	720	1.227	1.226	-0.001
15	327	1.226	1.226	0.000
15	700	1.226	1.226	0.000
15	851	1.227	1.227	0.000
30	571	1.226	1.225	-0.001
30	172	1.226	1.225	-0.001
30	375	1.226	1.225	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.225	-0.002
35	119	1.226	1.225	-0.001
35	90	1.226	1.225	-0.001
35	297	1.226	1.228	0.002
35	594	1.227	1.226	-0.001
35	586	1.226	1.226	0.000
50	152	1.226	1.225	-0.001
50	359	1.226	1.225	-0.001
50	126	1.226	1.225	-0.001
50	883	1.226	1.224	-0.002
50	117	1.226	1.225	-0.001
55	301	1.226	1.226	0.000
55	593	1.226	1.225	-0.001
55	374	1.227	1.225	-0.002
55	650	1.228	1.227	-0.001
55	324	1.227	1.229	0.002
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.223	-0.004
100	534	1.226	1.223	-0.003
105	265	1.226	1.225	-0.001
105	482	1.227	1.224	-0.003
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.226	1.224	-0.002
	Max	1.228	1.229	0.002
	Average	1.226	1.226	-0.001
	Min	1.226	1.223	-0.004
	Std Dev	0.001	0.001	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	8	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	1.225	1.225	1.224	1.225	1.223	1.223
Average	1.226	1.226	1.227	1.226	1.226	1.225	1.226	1.225	1.226	1.224	1.224
Max	1.227	1.226	1.227	1.227	1.227	1.226	1.228	1.225	1.229	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

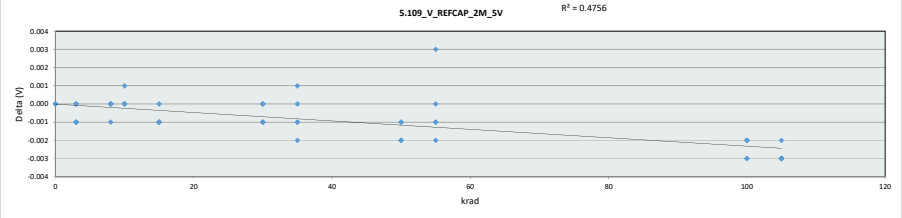


HDR TID Report
TPS7H5003-SP QMLP

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

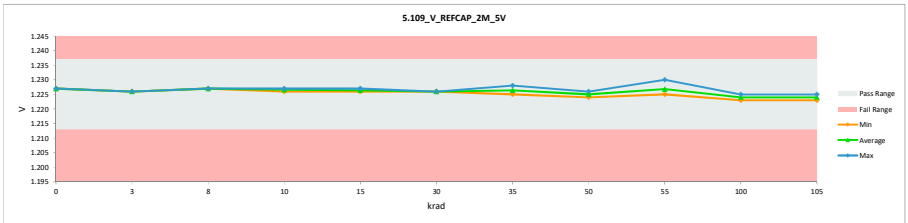
	5.109_V_REFCAP_2M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.227	1.227	0.000
0	236	1.227	1.227	0.000
0	563	1.227	1.227	0.000
3	717	1.227	1.226	-0.001
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.227	1.226	-0.001
8	770	1.227	1.227	0.000
8	331	1.228	1.227	-0.001
8	279	1.227	1.227	0.000
8	694	1.227	1.227	0.000
8	337	1.227	1.227	0.000
10	498	1.227	1.227	0.000
10	139	1.227	1.227	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.227	0.001
10	500	1.226	1.226	0.000
15	209	1.228	1.227	-0.001
15	720	1.227	1.226	-0.001
15	327	1.227	1.226	-0.001
15	700	1.227	1.226	-0.001
15	851	1.227	1.227	0.000
30	571	1.226	1.226	0.000
30	172	1.226	1.226	0.000
30	375	1.227	1.226	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.226	-0.001
35	119	1.227	1.226	-0.001
35	90	1.227	1.225	-0.002
35	297	1.227	1.228	0.001
35	594	1.227	1.227	0.000
35	586	1.227	1.226	-0.001
50	152	1.227	1.225	-0.002
50	359	1.226	1.225	-0.001
50	126	1.227	1.225	-0.002
50	883	1.226	1.224	-0.002
50	117	1.227	1.226	-0.001
55	301	1.227	1.226	-0.001
55	593	1.226	1.226	0.000
55	374	1.227	1.225	-0.002
55	650	1.228	1.227	-0.001
55	324	1.227	1.230	0.003
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.225	-0.002
100	724	1.227	1.224	-0.003
100	534	1.226	1.223	-0.003
105	265	1.227	1.225	-0.002
105	482	1.227	1.224	-0.003
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.227	1.224	-0.003
	Max	1.228	1.230	0.003
	Average	1.227	1.226	-0.001
	Min	1.226	1.223	-0.003
	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	8	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	1.227	1.226	1.227	1.226	1.226	1.226	1.225	1.224	1.225	1.223	1.223
Average	1.227	1.226	1.227	1.227	1.226	1.226	1.226	1.225	1.227	1.224	1.224
Max	1.227	1.226	1.227	1.227	1.227	1.226	1.228	1.226	1.230	1.225	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

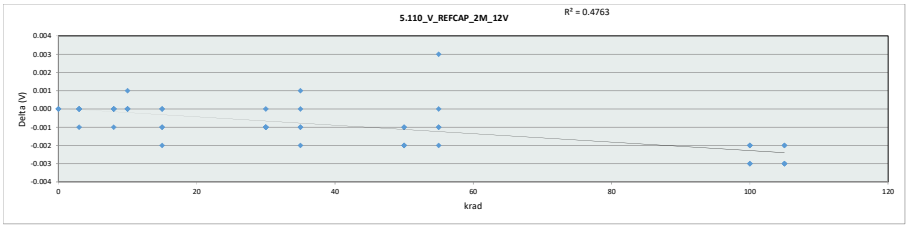


HDR TID Report
TPS7H5003-SP QMLP

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

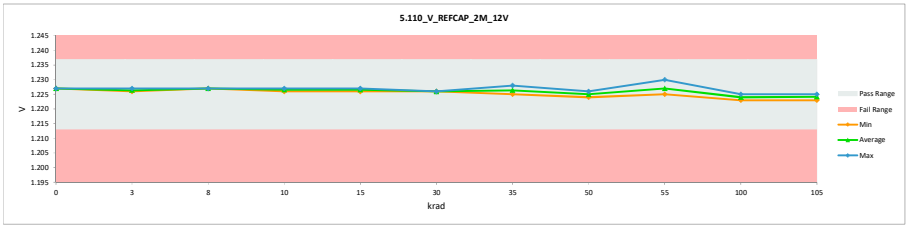
	5.110_V_REFCAP_2M_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.227	1.227	0.000
0	236	1.227	1.227	0.000
0	563	1.227	1.227	0.000
3	717	1.227	1.227	0.000
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.227	1.227	0.000
8	770	1.227	1.227	0.000
8	331	1.228	1.227	-0.001
8	279	1.227	1.227	0.000
8	694	1.227	1.227	0.000
8	337	1.227	1.227	0.000
10	498	1.227	1.227	0.000
10	139	1.227	1.227	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.227	0.001
10	500	1.226	1.226	0.000
15	209	1.228	1.227	-0.001
15	720	1.228	1.226	-0.002
15	327	1.227	1.227	0.000
15	700	1.227	1.226	-0.001
15	851	1.227	1.227	0.000
30	571	1.227	1.226	-0.001
30	172	1.226	1.226	0.000
30	375	1.227	1.226	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.226	-0.001
35	119	1.227	1.226	-0.001
35	90	1.227	1.225	-0.002
35	297	1.227	1.228	0.001
35	594	1.227	1.227	0.000
35	586	1.227	1.226	-0.001
50	152	1.227	1.225	-0.002
50	359	1.226	1.225	-0.001
50	126	1.227	1.225	-0.002
50	883	1.226	1.224	-0.002
50	117	1.227	1.226	-0.001
55	301	1.227	1.226	-0.001
55	593	1.226	1.226	0.000
55	374	1.227	1.225	-0.002
55	650	1.229	1.228	-0.001
55	324	1.227	1.230	0.003
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.225	-0.002
100	724	1.227	1.224	-0.003
100	534	1.226	1.223	-0.003
105	265	1.227	1.225	-0.002
105	482	1.227	1.224	-0.003
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.227	1.225	-0.002
	Max	1.229	1.230	0.003
	Average	1.227	1.226	-0.001
	Min	1.226	1.223	-0.003
	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	8	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	1.227	1.226	1.227	1.226	1.226	1.226	1.225	1.224	1.225	1.223	1.223
Average	1.227	1.226	1.227	1.227	1.227	1.226	1.226	1.225	1.227	1.224	1.224
Max	1.227	1.227	1.227	1.227	1.227	1.226	1.228	1.226	1.230	1.225	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

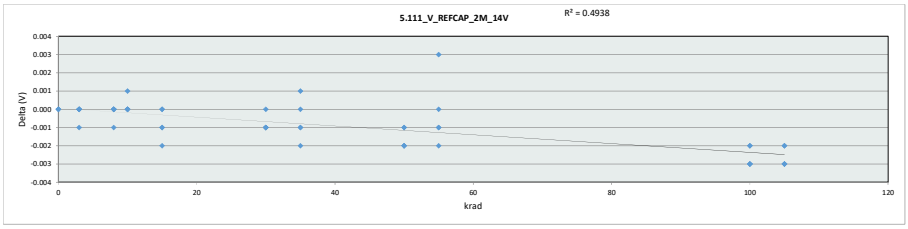


HDR TID Report
TPS7H5003-SP QMLP

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

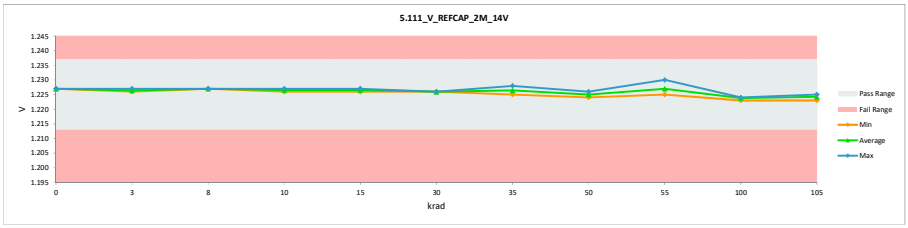
	5.111_V_REFCAP_2M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.227	1.227	0.000
0	236	1.227	1.227	0.000
0	563	1.227	1.227	0.000
3	717	1.227	1.227	0.000
3	685	1.227	1.226	-0.001
3	360	1.226	1.226	0.000
3	427	1.226	1.226	0.000
3	785	1.227	1.227	0.000
8	770	1.227	1.227	0.000
8	331	1.228	1.227	-0.001
8	279	1.227	1.227	0.000
8	694	1.227	1.227	0.000
8	337	1.227	1.227	0.000
10	498	1.227	1.227	0.000
10	139	1.227	1.227	0.000
10	632	1.226	1.226	0.000
10	465	1.226	1.227	0.001
10	500	1.226	1.226	0.000
15	209	1.228	1.227	-0.001
15	720	1.228	1.226	-0.002
15	327	1.227	1.227	0.000
15	700	1.227	1.226	-0.001
15	851	1.227	1.227	0.000
30	571	1.227	1.226	-0.001
30	172	1.226	1.226	0.000
30	375	1.227	1.226	-0.001
30	445	1.227	1.226	-0.001
30	103	1.227	1.226	-0.001
35	119	1.227	1.226	-0.001
35	90	1.227	1.225	-0.002
35	297	1.227	1.228	0.001
35	594	1.227	1.227	0.000
35	586	1.227	1.226	-0.001
50	152	1.227	1.225	-0.002
50	359	1.226	1.225	-0.001
50	126	1.227	1.225	-0.002
50	883	1.226	1.224	-0.002
50	117	1.227	1.226	-0.001
55	301	1.227	1.226	-0.001
55	593	1.226	1.226	0.000
55	374	1.227	1.225	-0.002
55	650	1.229	1.228	-0.001
55	324	1.227	1.230	0.003
100	562	1.226	1.224	-0.002
100	753	1.226	1.224	-0.002
100	547	1.227	1.224	-0.003
100	724	1.227	1.224	-0.003
100	534	1.226	1.223	-0.003
105	265	1.227	1.225	-0.002
105	482	1.227	1.224	-0.003
105	372	1.226	1.223	-0.003
105	308	1.227	1.224	-0.003
105	438	1.227	1.225	-0.002
	Max	1.229	1.230	0.003
	Average	1.227	1.226	-0.001
	Min	1.226	1.223	-0.003
	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	8	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	1.227	1.226	1.227	1.226	1.226	1.226	1.225	1.224	1.225	1.223	1.223
Average	1.227	1.226	1.227	1.227	1.227	1.226	1.226	1.225	1.227	1.224	1.224
Max	1.227	1.227	1.227	1.227	1.227	1.226	1.228	1.226	1.230	1.224	1.225
UL	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237	1.237

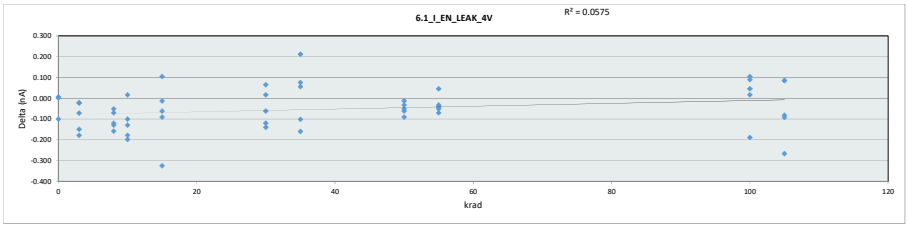


HDR TID Report
TPS7H5003-SP QMLP

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

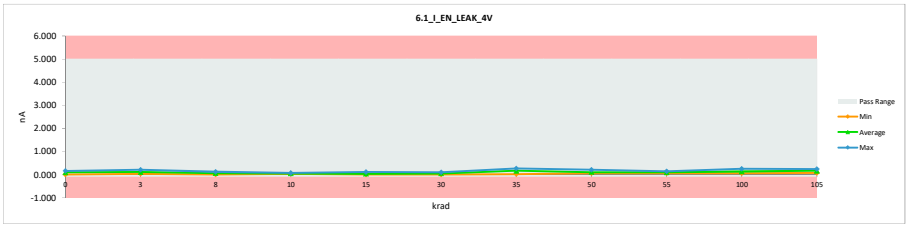
	6.1_I_EN_LEAK_4V	
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	5	5
Min Limit	-0.1	-0.1

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.105	0.005	-0.100
0	236	0.154	0.161	0.007
0	563	0.120	0.122	0.002
3	717	0.105	0.034	-0.071
3	685	0.310	0.132	-0.178
3	360	0.232	0.083	-0.149
3	427	0.115	0.093	-0.022
3	785	0.232	0.210	-0.022
8	770	0.212	0.054	-0.158
8	331	0.173	0.122	-0.051
8	279	0.232	0.112	-0.120
8	694	0.085	0.015	-0.070
8	337	0.134	0.005	-0.129
10	498	0.222	0.044	-0.178
10	139	0.261	0.063	-0.198
10	632	0.163	0.034	-0.129
10	465	0.144	0.044	-0.100
10	500	0.056	0.073	0.017
15	209	0.066	0.005	-0.061
15	720	0.329	0.005	-0.324
15	327	0.037	0.024	-0.013
15	700	0.124	0.034	-0.090
15	851	0.007	0.112	0.105
30	571	0.115	0.054	-0.061
30	172	0.124	0.005	-0.119
30	375	0.056	0.073	0.017
30	445	0.037	0.102	0.065
30	103	0.154	0.015	-0.139
35	119	0.124	0.200	0.076
35	90	0.144	0.200	0.056
35	297	0.056	0.268	0.212
35	594	0.183	0.024	-0.159
35	586	0.242	0.141	-0.101
50	152	0.242	0.210	-0.032
50	359	0.115	0.054	-0.061
50	126	0.105	0.054	-0.051
50	883	0.066	0.054	-0.012
50	117	0.251	0.161	-0.090
55	301	0.105	0.054	-0.051
55	593	0.202	0.132	-0.070
55	374	0.037	0.083	0.046
55	650	0.183	0.141	-0.042
55	324	0.115	0.083	-0.032
100	562	0.022	0.112	0.090
100	753	0.095	0.141	0.046
100	547	0.037	0.054	0.017
100	724	0.320	0.132	-0.188
100	534	0.144	0.249	0.105
105	265	0.378	0.112	-0.266
105	482	0.124	0.210	0.086
105	372	0.163	0.071	-0.092
105	308	0.320	0.239	-0.081
105	438	0.115	0.200	0.085
	Max	0.378	0.268	0.212
	Average	0.151	0.098	-0.052
	Min	0.007	0.005	-0.324
	Std Dev	0.087	0.071	0.101



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

krad	0	3	8	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	0.034	0.005	0.034	0.005	0.005	0.024	0.054	0.054	0.054	0.071
Average	0.096	0.110	0.062	0.052	0.036	0.050	0.167	0.107	0.099	0.138	0.166
Max	0.161	0.210	0.122	0.073	0.112	0.102	0.268	0.210	0.141	0.249	0.239
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

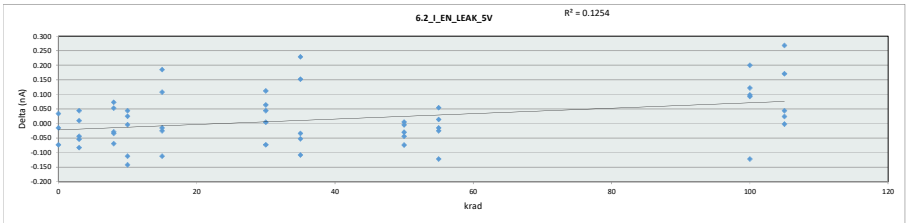


HDR TID Report
TPS7H5003-SP QMLP

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

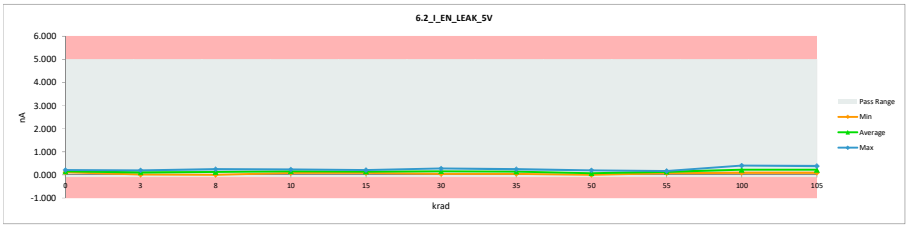
6.2_I_EN_LEAK_5V		
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	5	5
Min Limit	-0.1	-0.1

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.232	0.217	-0.015
0	236	0.183	0.110	-0.073
0	563	0.095	0.129	0.034
3	717	0.154	0.110	-0.044
3	685	0.154	0.071	-0.083
3	360	0.154	0.198	0.044
3	427	0.193	0.139	-0.054
3	785	0.007	0.017	0.010
8	770	0.193	0.246	0.053
8	331	0.154	0.227	0.073
8	279	0.076	0.007	-0.069
8	694	0.110	0.076	-0.034
8	337	0.085	0.056	-0.029
10	498	0.085	0.081	-0.004
10	139	0.281	0.139	-0.142
10	632	0.261	0.149	-0.112
10	465	0.154	0.198	0.044
10	500	0.212	0.237	0.025
15	209	0.041	0.149	0.108
15	720	0.193	0.081	-0.112
15	327	0.193	0.178	-0.015
15	700	0.115	0.090	-0.025
15	851	0.022	0.207	0.185
30	571	0.154	0.081	-0.073
30	172	0.212	0.276	0.064
30	375	0.173	0.217	0.044
30	445	0.056	0.168	0.112
30	103	0.037	0.041	0.004
35	119	0.144	0.110	-0.034
35	90	0.007	0.159	0.152
35	297	0.202	0.149	-0.053
35	594	0.154	0.046	-0.108
35	586	0.017	0.246	0.229
50	152	0.242	0.198	-0.044
50	359	0.002	0.007	0.005
50	126	0.105	0.100	-0.005
50	883	0.115	0.041	-0.074
50	117	0.037	0.007	-0.030
55	301	0.154	0.168	0.014
55	593	0.193	0.071	-0.122
55	374	0.066	0.120	0.054
55	650	0.193	0.168	-0.025
55	324	0.154	0.139	-0.015
100	562	0.134	0.334	0.200
100	753	0.012	0.110	0.098
100	547	0.212	0.090	-0.122
100	724	0.281	0.403	0.122
100	534	0.066	0.159	0.093
105	265	0.046	0.090	0.044
105	482	0.066	0.090	0.024
105	372	0.173	0.171	-0.002
105	308	0.202	0.373	0.171
105	438	0.115	0.383	0.268
	Max	0.281	0.403	0.268
	Average	0.133	0.148	0.014
	Min	0.002	0.007	-0.142
	Std Dev	0.075	0.093	0.093



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

krad	0	3	8	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	0.110	0.017	0.007	0.081	0.081	0.041	0.046	0.007	0.071	0.090	0.090
Average	0.152	0.107	0.122	0.161	0.141	0.157	0.142	0.071	0.133	0.219	0.221
Max	0.217	0.198	0.246	0.237	0.207	0.276	0.246	0.198	0.168	0.403	0.383
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

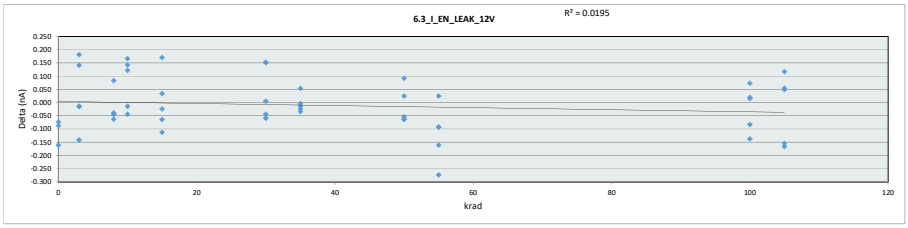


HDR TID Report
TPS7H5003-SP QMLP

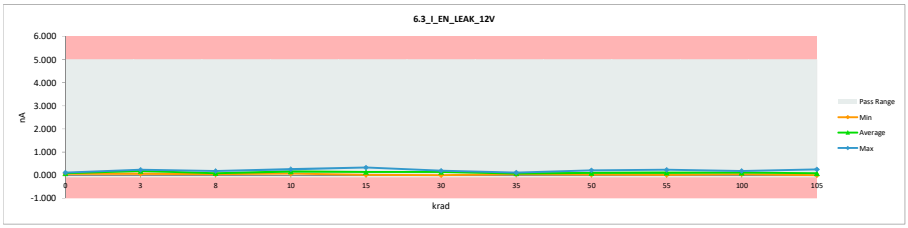
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.227	0.066	-0.161
0	236	0.188	0.115	-0.073
0	563	0.168	0.081	-0.087
3	717	0.168	0.154	-0.014
3	685	0.051	0.232	0.181
3	360	0.227	0.212	-0.015
3	427	0.081	0.222	0.141
3	785	0.207	0.066	-0.141
8	770	0.090	0.051	-0.039
8	331	0.129	0.085	-0.044
8	279	0.100	0.183	0.083
8	694	0.139	0.095	-0.044
8	337	0.100	0.037	-0.063
10	498	0.144	0.100	-0.044
10	139	0.139	0.261	0.122
10	632	0.085	0.071	-0.014
10	465	0.051	0.193	0.142
10	500	0.027	0.193	0.166
15	209	0.081	0.017	-0.064
15	720	0.159	0.329	0.170
15	327	0.217	0.251	0.034
15	700	0.046	0.022	-0.024
15	851	0.178	0.066	-0.112
30	571	0.090	0.095	0.005
30	172	0.061	0.002	-0.059
30	375	0.237	0.193	-0.044
30	445	0.041	0.193	0.152
30	103	0.041	0.193	0.152
35	119	0.100	0.066	-0.034
35	90	0.061	0.115	0.054
35	297	0.090	0.066	-0.024
35	594	0.041	0.037	-0.004
35	586	0.129	0.115	-0.014
50	152	0.100	0.037	-0.063
50	359	0.159	0.095	-0.064
50	126	0.178	0.124	-0.054
50	883	0.002	0.027	0.025
50	117	0.120	0.212	0.092
55	301	0.285	0.012	-0.273
55	593	0.198	0.037	-0.161
55	374	0.207	0.115	-0.092
55	650	0.227	0.134	-0.093
55	324	0.207	0.232	0.025
100	562	0.207	0.124	-0.083
100	753	0.188	0.051	-0.137
100	547	0.090	0.105	0.015
100	724	0.168	0.188	0.020
100	534	0.012	0.085	0.073
105	265	0.168	0.002	-0.166
105	482	0.012	0.061	0.049
105	372	0.188	0.034	-0.154
105	308	0.139	0.256	0.117
105	438	0.022	0.076	0.054
	Max	0.285	0.329	0.181
	Average	0.128	0.117	-0.011
	Min	0.002	0.002	-0.273
	Std Dev	0.070	0.080	0.101



6.3_I_EN_LEAK_12V											
Test Site											
Tester											
Test Number											
Max Limit	5	nA									
Min Limit	-0.1	nA									
krad	0	3	8	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	0.066	0.066	0.037	0.071	0.017	0.002	0.037	0.027	0.012	0.051	0.002
Average	0.087	0.177	0.090	0.164	0.137	0.135	0.080	0.099	0.106	0.111	0.086
Max	0.115	0.232	0.183	0.261	0.329	0.193	0.115	0.212	0.232	0.188	0.256
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

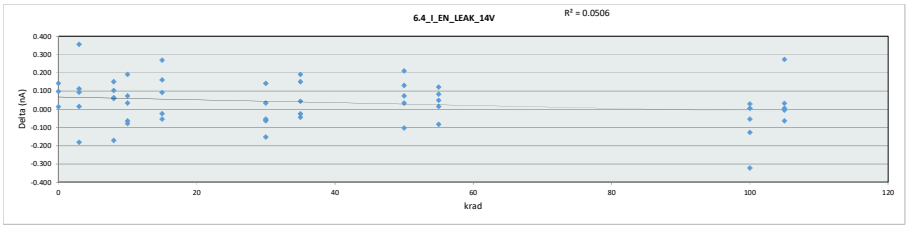


HDR TID Report
TPS7H5003-SP QMLP

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

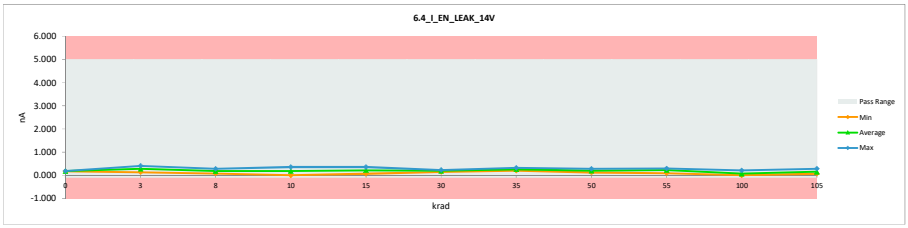
6.4_I_EN_LEAK_14V		
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	5	5
Min Limit	-0.1	-0.1

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.159	0.173	0.014
0	236	0.041	0.183	0.142
0	563	0.085	0.183	0.098
3	717	0.246	0.261	0.015
3	685	0.178	0.290	0.112
3	360	0.217	0.310	0.093
3	427	0.315	0.134	-0.181
3	785	0.051	0.407	0.356
8	770	0.120	0.271	0.151
8	331	0.041	0.144	0.103
8	279	0.295	0.124	-0.171
8	694	0.217	0.281	0.064
8	337	0.017	0.076	0.059
10	498	0.168	0.359	0.191
10	139	0.081	0.002	-0.079
10	632	0.012	0.085	0.073
10	465	0.237	0.271	0.034
10	500	0.266	0.202	-0.064
15	209	0.129	0.105	-0.024
15	720	0.120	0.066	-0.054
15	327	0.198	0.290	0.092
15	700	0.090	0.359	0.269
15	851	0.090	0.251	0.161
30	571	0.354	0.202	-0.152
30	172	0.002	0.144	0.142
30	375	0.295	0.232	-0.063
30	445	0.217	0.163	-0.054
30	103	0.188	0.222	0.034
35	119	0.149	0.300	0.151
35	90	0.178	0.222	0.044
35	297	0.246	0.202	-0.044
35	594	0.129	0.320	0.191
35	586	0.276	0.251	-0.025
50	152	0.149	0.222	0.073
50	359	0.315	0.212	-0.103
50	126	0.090	0.124	0.034
50	883	0.032	0.163	0.131
50	117	0.071	0.281	0.210
55	301	0.188	0.271	0.083
55	593	0.046	0.095	0.049
55	374	0.178	0.193	0.015
55	650	0.354	0.271	-0.083
55	324	0.168	0.290	0.122
100	562	0.159	0.032	-0.127
100	753	0.207	0.212	0.005
100	547	0.324	0.002	-0.322
100	724	0.071	0.017	-0.054
100	534	0.061	0.090	0.029
105	265	0.071	0.066	-0.005
105	482	0.168	0.105	-0.063
105	372	0.149	0.181	0.032
105	308	0.012	0.285	0.273
105	438	0.129	0.134	0.005
	Max	0.354	0.407	0.356
	Average	0.158	0.195	0.037
	Min	0.002	0.002	-0.322
	Std Dev	0.095	0.096	0.124



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

krad	0	3	8	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	0.173	0.134	0.076	0.002	0.066	0.144	0.202	0.124	0.095	0.002	0.066
Average	0.180	0.280	0.179	0.184	0.214	0.193	0.259	0.200	0.224	0.071	0.154
Max	0.183	0.407	0.281	0.359	0.359	0.232	0.320	0.281	0.290	0.212	0.285
UL	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

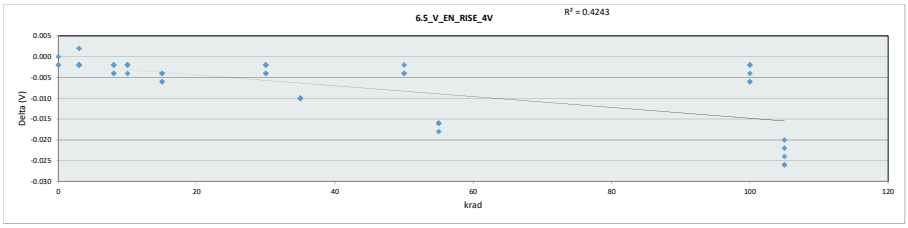


HDR TID Report
TPS7H5003-SP QMLP

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

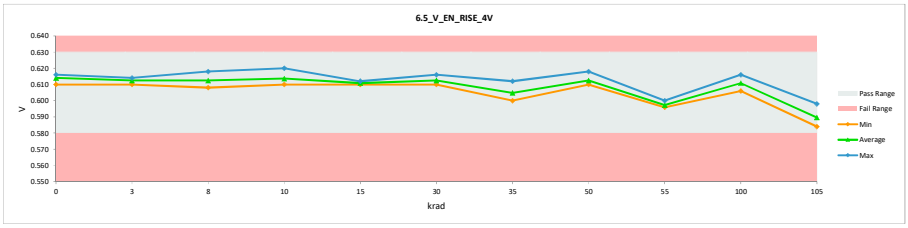
	6.5_V_EN_RISE_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.58	0.58

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.616	0.616	0.000
0	236	0.612	0.610	-0.002
0	563	0.618	0.616	-0.002
3	717	0.616	0.614	-0.002
3	685	0.612	0.610	-0.002
3	360	0.610	0.612	0.002
3	427	0.614	0.612	-0.002
3	785	0.616	0.614	-0.002
8	770	0.614	0.610	-0.004
8	331	0.618	0.614	-0.004
8	279	0.614	0.612	-0.002
8	694	0.610	0.608	-0.002
8	337	0.620	0.618	-0.002
10	498	0.614	0.612	-0.002
10	139	0.616	0.614	-0.002
10	632	0.612	0.610	-0.002
10	465	0.624	0.620	-0.004
10	500	0.614	0.612	-0.002
15	209	0.616	0.610	-0.006
15	720	0.616	0.610	-0.006
15	327	0.616	0.612	-0.004
15	700	0.616	0.612	-0.004
15	851	0.614	0.610	-0.004
30	571	0.616	0.614	-0.002
30	172	0.618	0.616	-0.002
30	375	0.612	0.610	-0.002
30	445	0.614	0.610	-0.004
30	103	0.616	0.612	-0.004
35	119	0.616	0.606	-0.010
35	90	0.622	0.612	-0.010
35	297	0.610	0.600	-0.010
35	594	0.612	0.602	-0.010
35	586	0.614	0.604	-0.010
50	152	0.614	0.610	-0.004
50	359	0.614	0.610	-0.004
50	126	0.620	0.618	-0.002
50	883	0.616	0.612	-0.004
50	117	0.616	0.612	-0.004
55	301	0.612	0.596	-0.016
55	593	0.618	0.600	-0.018
55	374	0.612	0.596	-0.016
55	650	0.612	0.596	-0.016
55	324	0.614	0.598	-0.016
100	562	0.622	0.616	-0.006
100	753	0.612	0.610	-0.002
100	547	0.610	0.606	-0.004
100	724	0.618	0.616	-0.002
100	534	0.612	0.606	-0.006
105	265	0.608	0.584	-0.024
105	482	0.610	0.588	-0.022
105	372	0.618	0.598	-0.020
105	308	0.614	0.588	-0.026
105	438	0.616	0.590	-0.026
	Max	0.624	0.620	0.002
	Average	0.615	0.608	-0.007
	Min	0.608	0.584	-0.026
	Std Dev	0.003	0.008	0.007



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

krad	0	3	8	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	0.610	0.610	0.608	0.610	0.610	0.610	0.600	0.610	0.596	0.606	0.584
Average	0.614	0.612	0.612	0.614	0.611	0.612	0.605	0.612	0.597	0.611	0.590
Max	0.616	0.614	0.618	0.620	0.612	0.616	0.612	0.618	0.600	0.616	0.598
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

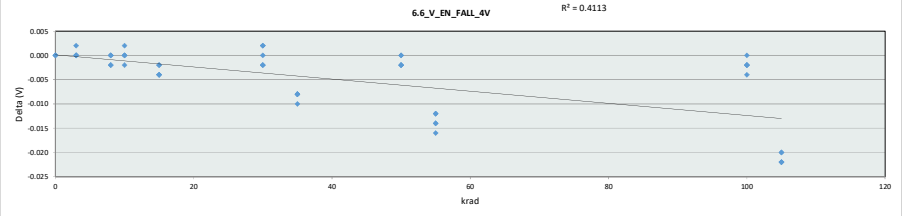


HDR TID Report
TPS7H5003-SP QMLP

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

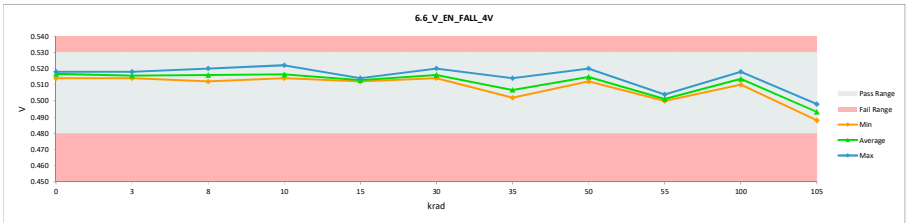
	6.6_V_EN_FALL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.518	0.518	0.000
0	236	0.514	0.514	0.000
0	563	0.518	0.518	0.000
3	717	0.518	0.518	0.000
3	685	0.514	0.514	0.000
3	360	0.512	0.514	0.002
3	427	0.516	0.516	0.000
3	785	0.516	0.516	0.000
8	770	0.518	0.516	-0.002
8	331	0.518	0.518	0.000
8	279	0.514	0.514	0.000
8	694	0.512	0.512	0.000
8	337	0.522	0.520	-0.002
10	498	0.514	0.516	0.002
10	139	0.518	0.516	-0.002
10	632	0.514	0.514	0.000
10	465	0.522	0.522	0.000
10	500	0.514	0.514	0.000
15	209	0.516	0.514	-0.002
15	720	0.516	0.512	-0.004
15	327	0.516	0.512	-0.004
15	700	0.518	0.514	-0.004
15	851	0.514	0.512	-0.002
30	571	0.516	0.518	0.002
30	172	0.518	0.520	0.002
30	375	0.514	0.514	0.000
30	445	0.516	0.514	-0.002
30	103	0.516	0.514	-0.002
35	119	0.516	0.508	-0.008
35	90	0.522	0.514	-0.008
35	297	0.510	0.502	-0.008
35	594	0.514	0.504	-0.010
35	586	0.514	0.506	-0.008
50	152	0.514	0.514	0.000
50	359	0.514	0.512	-0.002
50	126	0.520	0.520	0.000
50	883	0.516	0.514	-0.002
50	117	0.516	0.514	-0.002
55	301	0.514	0.500	-0.014
55	593	0.518	0.502	-0.016
55	374	0.514	0.500	-0.014
55	650	0.512	0.500	-0.012
55	324	0.516	0.504	-0.012
100	562	0.522	0.518	-0.004
100	753	0.514	0.512	-0.002
100	547	0.512	0.510	-0.002
100	724	0.518	0.518	0.000
100	534	0.512	0.510	-0.002
105	265	0.510	0.488	-0.022
105	482	0.512	0.492	-0.020
105	372	0.520	0.498	-0.022
105	308	0.514	0.492	-0.022
105	438	0.516	0.496	-0.020
	Max	0.522	0.522	0.002
	Average	0.516	0.511	-0.005
	Min	0.510	0.488	-0.022
	Std Dev	0.003	0.008	0.007



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

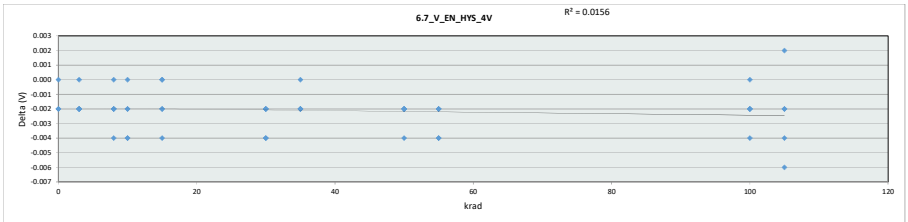
krad	0	3	8	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.514	0.514	0.512	0.514	0.512	0.514	0.502	0.512	0.500	0.510	0.488
Average	0.517	0.516	0.516	0.516	0.513	0.516	0.507	0.515	0.501	0.514	0.493
Max	0.518	0.518	0.520	0.522	0.514	0.520	0.514	0.520	0.504	0.518	0.498
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530



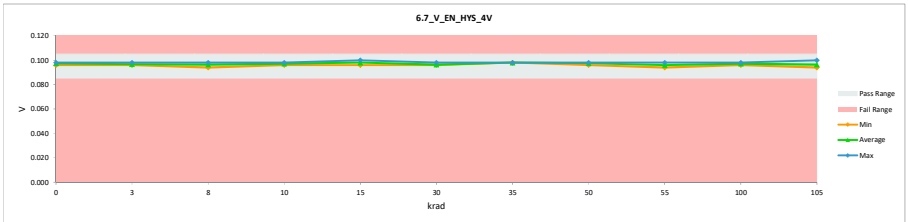
HDR TID Report
TPS7H5003-SP QMLP

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 #	PRE_HDR	POST_HDR	Delta
0	797	0.098	0.098	0.000
0	236	0.098	0.096	-0.002
0	563	0.100	0.098	-0.002
3	717	0.098	0.096	-0.002
3	685	0.098	0.096	-0.002
3	360	0.098	0.098	0.000
3	427	0.098	0.096	-0.002
3	785	0.100	0.098	-0.002
8	770	0.096	0.094	-0.002
8	331	0.100	0.096	-0.004
8	279	0.100	0.098	-0.002
8	694	0.098	0.096	-0.002
8	337	0.098	0.098	0.000
10	498	0.100	0.096	-0.004
10	139	0.098	0.098	0.000
10	632	0.098	0.096	-0.002
10	465	0.102	0.098	-0.004
10	500	0.100	0.098	-0.002
15	209	0.100	0.096	-0.004
15	720	0.100	0.098	-0.002
15	327	0.100	0.100	0.000
15	700	0.098	0.098	0.000
15	851	0.100	0.098	-0.002
30	571	0.100	0.096	-0.004
30	172	0.100	0.096	-0.004
30	375	0.098	0.096	-0.002
30	445	0.098	0.096	-0.002
30	103	0.100	0.098	-0.002
35	119	0.100	0.098	-0.002
35	90	0.100	0.098	-0.002
35	297	0.100	0.098	-0.002
35	594	0.098	0.098	0.000
35	586	0.100	0.098	-0.002
50	152	0.100	0.096	-0.004
50	359	0.100	0.098	-0.002
50	126	0.100	0.098	-0.002
50	883	0.100	0.098	-0.002
50	117	0.100	0.098	-0.002
55	301	0.098	0.096	-0.002
55	593	0.100	0.098	-0.002
55	374	0.098	0.096	-0.002
55	650	0.100	0.096	-0.004
55	324	0.098	0.094	-0.004
100	562	0.100	0.098	-0.002
100	753	0.098	0.098	0.000
100	547	0.098	0.096	-0.002
100	724	0.100	0.098	-0.002
100	534	0.100	0.096	-0.004
105	265	0.098	0.096	-0.002
105	482	0.098	0.096	-0.002
105	372	0.098	0.100	0.002
105	308	0.100	0.096	-0.004
105	438	0.100	0.094	-0.006
	Max	0.102	0.100	0.002
	Average	0.099	0.097	-0.002
	Min	0.096	0.094	-0.006
	Std Dev	0.001	0.001	0.001



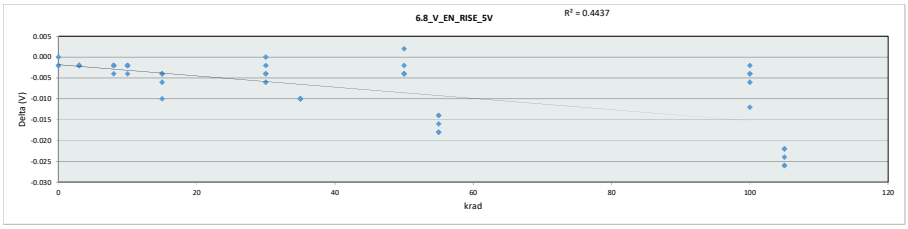
6.7_V_EN_HYS_4V											
Test Site											
Tester											
Test Number											
Max Limit	0.105	V									
Min Limit	0.085	V									
krad	0	3	8	10	15	30	35	50	55	100	105
LL	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
Min	0.096	0.096	0.094	0.096	0.096	0.096	0.098	0.096	0.094	0.096	0.094
Average	0.097	0.097	0.096	0.097	0.098	0.096	0.098	0.098	0.096	0.097	0.096
Max	0.098	0.098	0.098	0.098	0.100	0.098	0.098	0.098	0.098	0.098	0.100
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105



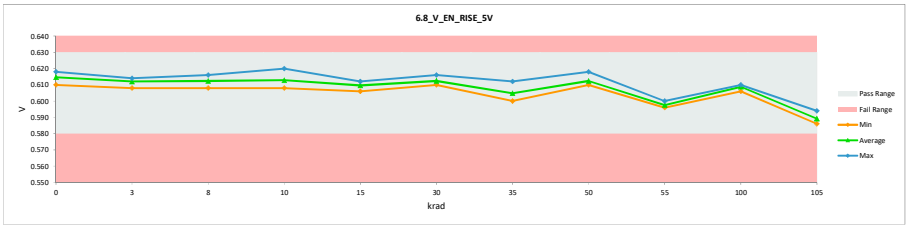
HDR TID Report
TPS7H5003-SP QMLP

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	0.63	0.63	
Min Limit	0.58	0.58	
krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.618	0.618	0.000
0	236	0.612	0.610	-0.002
0	563	0.618	0.616	-0.002
3	717	0.616	0.614	-0.002
3	685	0.612	0.610	-0.002
3	360	0.610	0.608	-0.002
3	427	0.616	0.614	-0.002
3	785	0.616	0.614	-0.002
8	770	0.614	0.612	-0.002
8	331	0.618	0.616	-0.002
8	279	0.614	0.612	-0.002
8	694	0.612	0.608	-0.004
8	337	0.616	0.614	-0.002
10	498	0.614	0.612	-0.002
10	139	0.616	0.614	-0.002
10	632	0.612	0.610	-0.002
10	465	0.624	0.620	-0.004
10	500	0.610	0.608	-0.002
15	209	0.616	0.612	-0.004
15	720	0.616	0.606	-0.010
15	327	0.612	0.608	-0.004
15	700	0.616	0.612	-0.004
15	851	0.616	0.610	-0.006
30	571	0.618	0.614	-0.004
30	172	0.618	0.616	-0.002
30	375	0.612	0.612	0.000
30	445	0.614	0.610	-0.004
30	103	0.616	0.610	-0.006
35	119	0.616	0.606	-0.010
35	90	0.622	0.612	-0.010
35	297	0.610	0.600	-0.010
35	594	0.612	0.602	-0.010
35	586	0.614	0.604	-0.010
50	152	0.614	0.610	-0.004
50	359	0.614	0.610	-0.004
50	126	0.616	0.618	0.002
50	883	0.616	0.612	-0.004
50	117	0.614	0.612	-0.002
55	301	0.614	0.596	-0.018
55	593	0.614	0.600	-0.014
55	374	0.614	0.596	-0.018
55	650	0.612	0.596	-0.016
55	324	0.614	0.600	-0.014
100	562	0.622	0.610	-0.012
100	753	0.612	0.610	-0.002
100	547	0.610	0.606	-0.004
100	724	0.616	0.610	-0.006
100	534	0.612	0.608	-0.004
105	265	0.608	0.586	-0.022
105	482	0.610	0.588	-0.022
105	372	0.618	0.594	-0.024
105	308	0.614	0.588	-0.026
105	438	0.616	0.590	-0.026
	Max	0.624	0.620	0.002
	Average	0.615	0.608	-0.007
	Min	0.608	0.586	-0.026
	Std Dev	0.003	0.008	0.007



6.8_V_EN_RISE_5V											
Test Site											
Tester											
Test Number											
Max Limit	0.63	V									
Min Limit	0.58	V									
krad	0	3	8	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	0.610	0.608	0.608	0.608	0.606	0.610	0.600	0.610	0.596	0.606	0.586
Average	0.615	0.612	0.612	0.613	0.610	0.612	0.605	0.612	0.598	0.609	0.589
Max	0.618	0.614	0.616	0.620	0.612	0.616	0.612	0.618	0.600	0.610	0.594
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

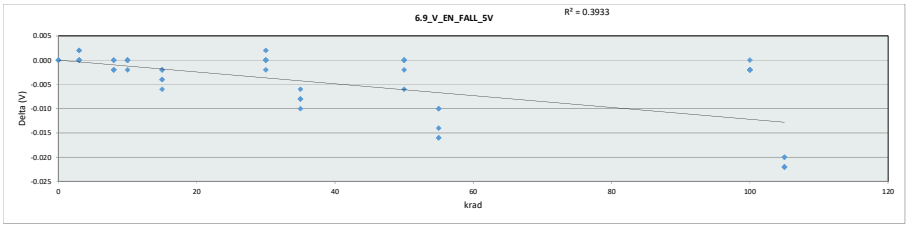


HDR TID Report
TPS7H5003-SP QMLP

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

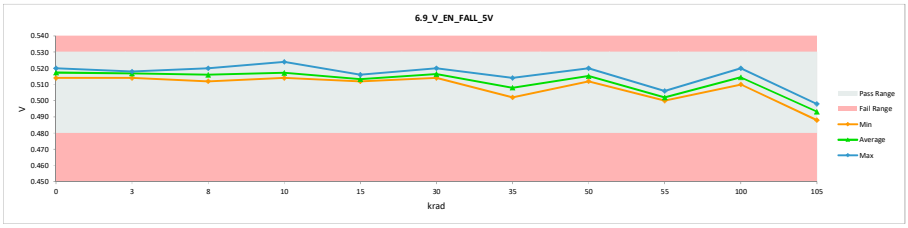
	6.9_V_EN_FALL_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.518	0.518	0.000
0	236	0.514	0.514	0.000
0	563	0.520	0.520	0.000
3	717	0.518	0.518	0.000
3	685	0.514	0.514	0.000
3	360	0.514	0.516	0.002
3	427	0.518	0.518	0.000
3	785	0.516	0.518	0.002
8	770	0.518	0.516	-0.002
8	331	0.518	0.518	0.000
8	279	0.514	0.514	0.000
8	694	0.514	0.512	-0.002
8	337	0.522	0.520	-0.002
10	498	0.516	0.516	0.000
10	139	0.518	0.518	0.000
10	632	0.514	0.514	0.000
10	465	0.524	0.524	0.000
10	500	0.516	0.514	-0.002
15	209	0.518	0.514	-0.004
15	720	0.518	0.512	-0.006
15	327	0.516	0.512	-0.004
15	700	0.518	0.516	-0.002
15	851	0.514	0.512	-0.002
30	571	0.516	0.518	0.002
30	172	0.520	0.520	0.000
30	375	0.514	0.514	0.000
30	445	0.516	0.516	0.000
30	103	0.516	0.514	-0.002
35	119	0.516	0.510	-0.006
35	90	0.524	0.514	-0.010
35	297	0.510	0.502	-0.008
35	594	0.514	0.506	-0.008
35	586	0.516	0.508	-0.008
50	152	0.514	0.514	0.000
50	359	0.518	0.512	-0.006
50	126	0.520	0.520	0.000
50	883	0.516	0.516	0.000
50	117	0.516	0.514	-0.002
55	301	0.514	0.500	-0.014
55	593	0.518	0.502	-0.016
55	374	0.516	0.500	-0.016
55	650	0.512	0.502	-0.010
55	324	0.516	0.506	-0.010
100	562	0.522	0.520	-0.002
100	753	0.514	0.512	-0.002
100	547	0.512	0.512	0.000
100	724	0.520	0.518	-0.002
100	534	0.512	0.510	-0.002
105	265	0.510	0.488	-0.022
105	482	0.512	0.492	-0.020
105	372	0.520	0.498	-0.022
105	308	0.514	0.492	-0.022
105	438	0.516	0.496	-0.020
	Max	0.524	0.524	0.002
	Average	0.516	0.512	-0.005
	Min	0.510	0.488	-0.022
	Std Dev	0.003	0.008	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	8	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	0.514	0.514	0.512	0.514	0.512	0.514	0.502	0.512	0.500	0.510	0.488
Average	0.517	0.517	0.516	0.517	0.513	0.516	0.508	0.515	0.502	0.514	0.493
Max	0.520	0.518	0.520	0.524	0.516	0.520	0.514	0.520	0.506	0.520	0.498
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

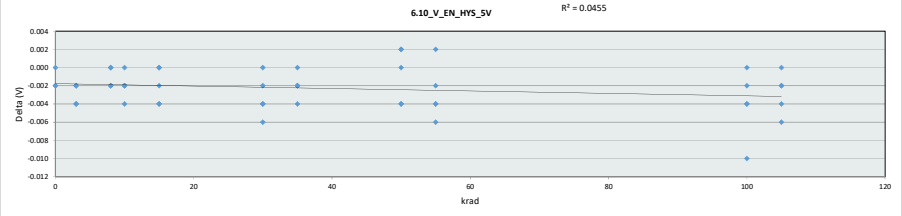


HDR TID Report
TPS7H5003-SP QMLP

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

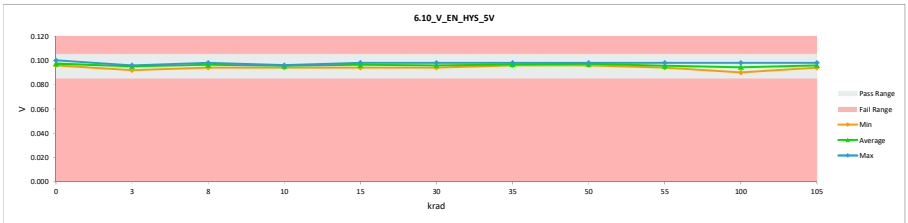
	6.10_V_EN_HYS_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.105	0.105
Min Limit	0.085	0.085

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.100	0.100	0.000
0	236	0.098	0.096	-0.002
0	563	0.098	0.096	-0.002
3	717	0.098	0.096	-0.002
3	685	0.098	0.096	-0.002
3	360	0.096	0.092	-0.004
3	427	0.098	0.096	-0.002
3	785	0.100	0.096	-0.004
8	770	0.096	0.096	0.000
8	331	0.100	0.098	-0.002
8	279	0.100	0.098	-0.002
8	694	0.098	0.096	-0.002
8	337	0.094	0.094	0.000
10	498	0.098	0.096	-0.002
10	139	0.098	0.096	-0.002
10	632	0.098	0.096	-0.002
10	465	0.100	0.096	-0.004
10	500	0.094	0.094	0.000
15	209	0.098	0.098	0.000
15	720	0.098	0.094	-0.004
15	327	0.096	0.096	0.000
15	700	0.098	0.096	-0.002
15	851	0.102	0.098	-0.004
30	571	0.102	0.096	-0.006
30	172	0.098	0.096	-0.002
30	375	0.098	0.098	0.000
30	445	0.098	0.094	-0.004
30	103	0.100	0.096	-0.004
35	119	0.100	0.096	-0.004
35	90	0.098	0.098	0.000
35	297	0.100	0.098	-0.002
35	594	0.098	0.096	-0.002
35	586	0.098	0.096	-0.002
50	152	0.100	0.096	-0.004
50	359	0.096	0.098	0.002
50	126	0.096	0.098	0.002
50	883	0.100	0.096	-0.004
50	117	0.098	0.098	0.000
55	301	0.100	0.096	-0.004
55	593	0.096	0.098	0.002
55	374	0.098	0.096	-0.002
55	650	0.100	0.094	-0.006
55	324	0.098	0.094	-0.004
100	562	0.100	0.090	-0.010
100	753	0.098	0.098	0.000
100	547	0.098	0.094	-0.004
100	724	0.096	0.092	-0.004
100	534	0.100	0.098	-0.002
105	265	0.098	0.098	0.000
105	482	0.098	0.096	-0.002
105	372	0.098	0.096	-0.002
105	308	0.100	0.096	-0.004
105	438	0.100	0.094	-0.006
	Max	0.102	0.100	0.002
	Average	0.098	0.096	-0.002
	Min	0.094	0.090	-0.010
	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	8	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	0.096	0.092	0.094	0.094	0.094	0.094	0.096	0.096	0.094	0.090	0.094
Average	0.097	0.095	0.096	0.096	0.096	0.096	0.097	0.097	0.096	0.094	0.096
Max	0.100	0.096	0.098	0.096	0.098	0.098	0.098	0.098	0.098	0.098	0.098
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

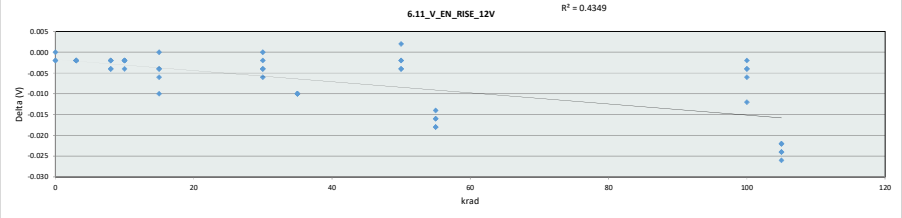


HDR TID Report
TPS7H5003-SP QMLP

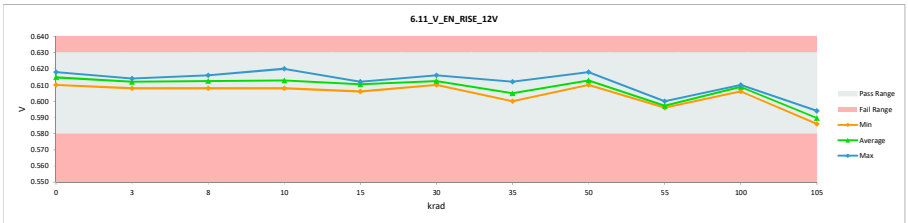
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.618	0.618	0.000
0	236	0.612	0.610	-0.002
0	563	0.618	0.616	-0.002
3	717	0.616	0.614	-0.002
3	685	0.612	0.610	-0.002
3	360	0.610	0.608	-0.002
3	427	0.616	0.614	-0.002
3	785	0.616	0.614	-0.002
8	770	0.614	0.612	-0.002
8	331	0.618	0.616	-0.002
8	279	0.614	0.612	-0.002
8	694	0.612	0.608	-0.004
8	337	0.618	0.614	-0.004
10	498	0.614	0.612	-0.002
10	139	0.616	0.614	-0.002
10	632	0.612	0.610	-0.002
10	465	0.624	0.620	-0.004
10	500	0.610	0.608	-0.002
15	209	0.616	0.612	-0.004
15	720	0.616	0.606	-0.010
15	327	0.612	0.612	0.000
15	700	0.616	0.612	-0.004
15	851	0.616	0.610	-0.006
30	571	0.618	0.614	-0.004
30	172	0.618	0.616	-0.002
30	375	0.612	0.612	0.000
30	445	0.614	0.610	-0.004
30	103	0.616	0.610	-0.006
35	119	0.616	0.606	-0.010
35	90	0.622	0.612	-0.010
35	297	0.610	0.600	-0.010
35	594	0.612	0.602	-0.010
35	586	0.614	0.604	-0.010
50	152	0.614	0.610	-0.004
50	359	0.614	0.612	-0.002
50	126	0.616	0.618	0.002
50	883	0.616	0.612	-0.004
50	117	0.614	0.612	-0.002
55	301	0.614	0.596	-0.018
55	593	0.614	0.600	-0.014
55	374	0.614	0.596	-0.018
55	650	0.612	0.596	-0.016
55	324	0.614	0.598	-0.016
100	562	0.622	0.610	-0.012
100	753	0.612	0.610	-0.002
100	547	0.610	0.606	-0.004
100	724	0.616	0.610	-0.006
100	534	0.612	0.608	-0.004
105	265	0.608	0.586	-0.022
105	482	0.610	0.588	-0.022
105	372	0.618	0.594	-0.024
105	308	0.614	0.588	-0.026
105	438	0.616	0.592	-0.024
	Max	0.624	0.620	0.002
	Average	0.615	0.608	-0.007
	Min	0.608	0.586	-0.026
	Std Dev	0.003	0.008	0.007



6.11_V_EN_RISE_12V											
Test Site											
Tester											
Test Number											
Max Limit	0.63	V									
Min Limit	0.58	V									
krad	0	3	8	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	0.610	0.608	0.608	0.608	0.606	0.610	0.600	0.610	0.596	0.606	0.586
Average	0.615	0.612	0.612	0.613	0.610	0.612	0.605	0.613	0.597	0.609	0.590
Max	0.618	0.614	0.616	0.620	0.612	0.616	0.612	0.618	0.600	0.610	0.594
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

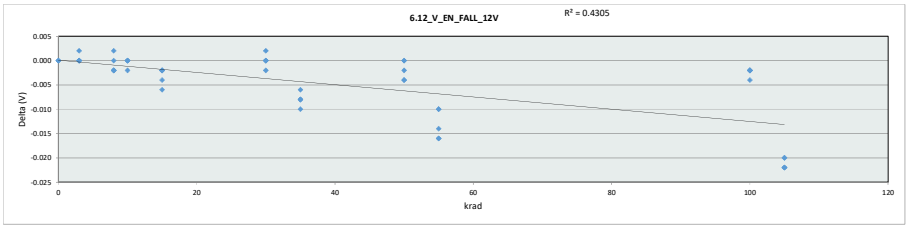


HDR TID Report
TPS7H5003-SP QMLP

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

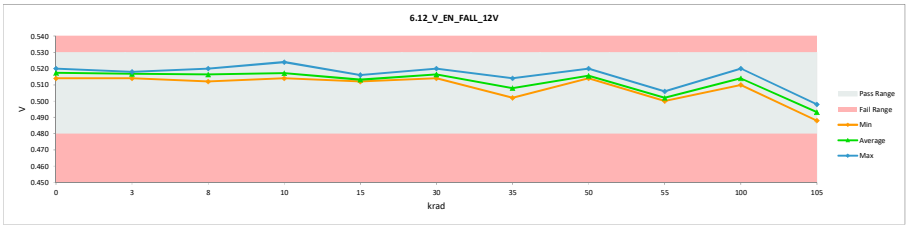
	6.12_V_EN_FALL_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.518	0.518	0.000
0	236	0.514	0.514	0.000
0	563	0.520	0.520	0.000
3	717	0.518	0.518	0.000
3	685	0.514	0.514	0.000
3	360	0.514	0.516	0.002
3	427	0.518	0.518	0.000
3	785	0.518	0.518	0.000
8	770	0.518	0.516	-0.002
8	331	0.518	0.520	0.002
8	279	0.514	0.514	0.000
8	694	0.514	0.512	-0.002
8	337	0.522	0.520	-0.002
10	498	0.516	0.516	0.000
10	139	0.518	0.518	0.000
10	632	0.514	0.514	0.000
10	465	0.524	0.524	0.000
10	500	0.516	0.514	-0.002
15	209	0.516	0.514	-0.002
15	720	0.518	0.512	-0.006
15	327	0.516	0.512	-0.004
15	700	0.518	0.516	-0.002
15	851	0.514	0.512	-0.002
30	571	0.516	0.518	0.002
30	172	0.520	0.520	0.000
30	375	0.514	0.514	0.000
30	445	0.516	0.516	0.000
30	103	0.516	0.514	-0.002
35	119	0.516	0.510	-0.006
35	90	0.524	0.514	-0.010
35	297	0.510	0.502	-0.008
35	594	0.514	0.506	-0.008
35	586	0.516	0.508	-0.008
50	152	0.516	0.514	-0.002
50	359	0.518	0.514	-0.004
50	126	0.520	0.520	0.000
50	883	0.516	0.516	0.000
50	117	0.518	0.514	-0.004
55	301	0.514	0.500	-0.014
55	593	0.518	0.502	-0.016
55	374	0.516	0.500	-0.016
55	650	0.512	0.502	-0.010
55	324	0.516	0.506	-0.010
100	562	0.522	0.520	-0.002
100	753	0.514	0.512	-0.002
100	547	0.514	0.510	-0.004
100	724	0.520	0.518	-0.002
100	534	0.512	0.510	-0.002
105	265	0.510	0.488	-0.022
105	482	0.512	0.492	-0.020
105	372	0.520	0.498	-0.022
105	308	0.514	0.492	-0.022
105	438	0.516	0.496	-0.020
	Max	0.524	0.524	0.002
	Average	0.516	0.512	-0.005
	Min	0.510	0.488	-0.022
	Std Dev	0.003	0.008	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	8	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	0.514	0.514	0.512	0.514	0.512	0.514	0.502	0.514	0.500	0.510	0.488
Average	0.517	0.517	0.516	0.517	0.513	0.516	0.508	0.516	0.502	0.514	0.493
Max	0.520	0.518	0.520	0.524	0.516	0.520	0.514	0.520	0.506	0.520	0.498
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

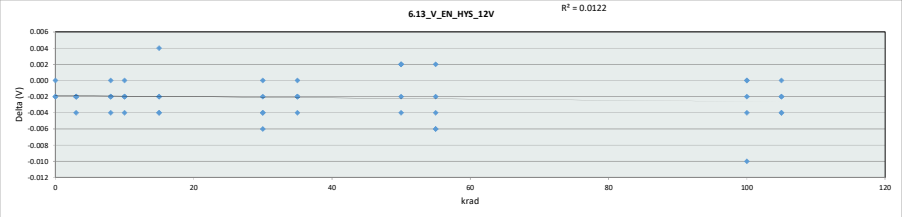


HDR TID Report
TPS7H5003-SP QMLP

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

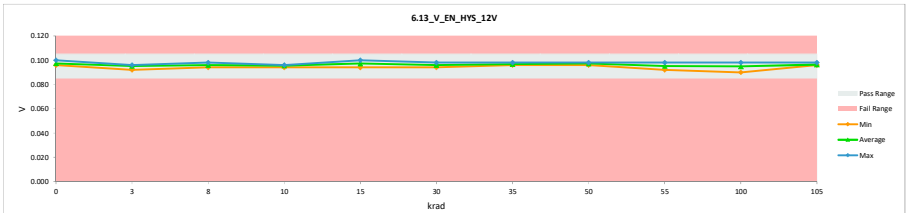
	6.13_V_EN_HYS_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.105	0.105
Min Limit	0.085	0.085

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.100	0.100	0.000
0	236	0.098	0.096	-0.002
0	563	0.098	0.096	-0.002
3	717	0.098	0.096	-0.002
3	685	0.098	0.096	-0.002
3	360	0.096	0.092	-0.004
3	427	0.098	0.096	-0.002
3	785	0.098	0.096	-0.002
8	770	0.096	0.096	0.000
8	331	0.100	0.096	-0.004
8	279	0.100	0.098	-0.002
8	694	0.098	0.096	-0.002
8	337	0.096	0.094	-0.002
10	498	0.098	0.096	-0.002
10	139	0.098	0.096	-0.002
10	632	0.098	0.096	-0.002
10	465	0.100	0.096	-0.004
10	500	0.094	0.094	0.000
15	209	0.100	0.098	-0.002
15	720	0.098	0.094	-0.004
15	327	0.096	0.100	0.004
15	700	0.098	0.096	-0.002
15	851	0.102	0.098	-0.004
30	571	0.102	0.096	-0.006
30	172	0.098	0.096	-0.002
30	375	0.098	0.098	0.000
30	445	0.098	0.094	-0.004
30	103	0.100	0.096	-0.004
35	119	0.100	0.096	-0.004
35	90	0.098	0.098	0.000
35	297	0.100	0.098	-0.002
35	594	0.098	0.096	-0.002
35	586	0.098	0.096	-0.002
50	152	0.098	0.096	-0.002
50	359	0.096	0.098	0.002
50	126	0.096	0.098	0.002
50	883	0.100	0.096	-0.004
50	117	0.096	0.098	0.002
55	301	0.100	0.096	-0.004
55	593	0.096	0.098	0.002
55	374	0.098	0.096	-0.002
55	650	0.100	0.094	-0.006
55	324	0.098	0.092	-0.006
100	562	0.100	0.090	-0.010
100	753	0.098	0.098	0.000
100	547	0.096	0.096	0.000
100	724	0.096	0.092	-0.004
100	534	0.100	0.098	-0.002
105	265	0.098	0.098	0.000
105	482	0.098	0.096	-0.002
105	372	0.098	0.096	-0.002
105	308	0.100	0.096	-0.004
105	438	0.100	0.096	-0.004
	Max	0.102	0.100	0.004
	Average	0.098	0.096	-0.002
	Min	0.094	0.090	-0.010
	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	8	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	0.096	0.092	0.094	0.094	0.094	0.094	0.096	0.096	0.092	0.090	0.096
Average	0.097	0.095	0.096	0.096	0.097	0.096	0.097	0.097	0.095	0.095	0.096
Max	0.100	0.096	0.098	0.096	0.100	0.098	0.098	0.098	0.098	0.098	0.098
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

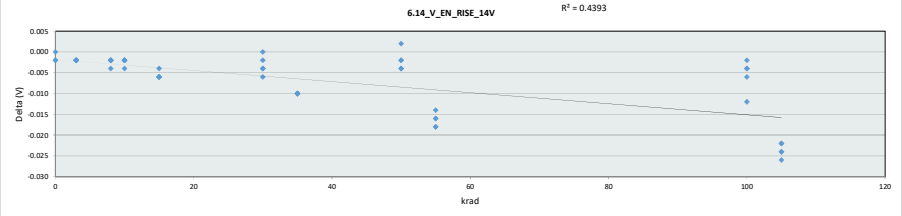


HDR TID Report
TPS7H5003-SP QMLP

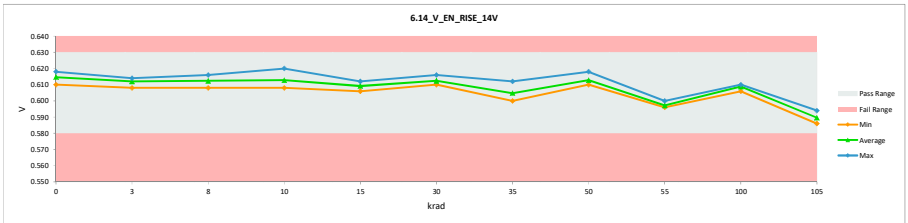
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.618	0.618	0.000
0	236	0.612	0.610	-0.002
0	563	0.618	0.616	-0.002
3	717	0.616	0.614	-0.002
3	685	0.612	0.610	-0.002
3	360	0.610	0.608	-0.002
3	427	0.616	0.614	-0.002
3	785	0.616	0.614	-0.002
8	770	0.614	0.612	-0.002
8	331	0.618	0.616	-0.002
8	279	0.614	0.612	-0.002
8	694	0.612	0.608	-0.004
8	337	0.616	0.614	-0.002
10	498	0.614	0.612	-0.002
10	139	0.616	0.614	-0.002
10	632	0.612	0.610	-0.002
10	465	0.624	0.620	-0.004
10	500	0.610	0.608	-0.002
15	209	0.616	0.612	-0.004
15	720	0.612	0.606	-0.006
15	327	0.612	0.606	-0.006
15	700	0.618	0.612	-0.006
15	851	0.616	0.610	-0.006
30	571	0.618	0.614	-0.004
30	172	0.618	0.616	-0.002
30	375	0.612	0.612	0.000
30	445	0.614	0.610	-0.004
30	103	0.616	0.610	-0.006
35	119	0.616	0.606	-0.010
35	90	0.622	0.612	-0.010
35	297	0.610	0.600	-0.010
35	594	0.612	0.602	-0.010
35	586	0.614	0.604	-0.010
50	152	0.614	0.610	-0.004
50	359	0.614	0.612	-0.002
50	126	0.616	0.618	0.002
50	883	0.616	0.612	-0.004
50	117	0.614	0.612	-0.002
55	301	0.614	0.596	-0.018
55	593	0.614	0.600	-0.014
55	374	0.614	0.596	-0.018
55	650	0.612	0.596	-0.016
55	324	0.614	0.598	-0.016
100	562	0.622	0.610	-0.012
100	753	0.612	0.610	-0.002
100	547	0.610	0.606	-0.004
100	724	0.616	0.610	-0.006
100	534	0.612	0.608	-0.004
105	265	0.608	0.586	-0.022
105	482	0.610	0.588	-0.022
105	372	0.618	0.594	-0.024
105	308	0.614	0.588	-0.026
105	438	0.616	0.592	-0.024
	Max	0.624	0.620	0.002
	Average	0.615	0.608	-0.007
	Min	0.608	0.586	-0.026
	Std Dev	0.003	0.008	0.007



	6.14_V_EN_RISE_14V										
Test Site											
Tester											
Test Number											
Max Limit	0.63	V									
Min Limit	0.58	V									
krad	0	3	8	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	0.610	0.608	0.608	0.608	0.606	0.610	0.600	0.610	0.596	0.606	0.586
Average	0.615	0.612	0.612	0.613	0.609	0.612	0.605	0.613	0.597	0.609	0.590
Max	0.618	0.614	0.616	0.620	0.612	0.616	0.612	0.618	0.600	0.610	0.594
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

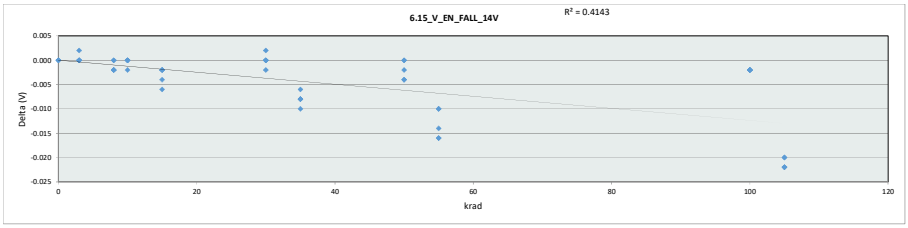


HDR TID Report
TPS7H5003-SP QMLP

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

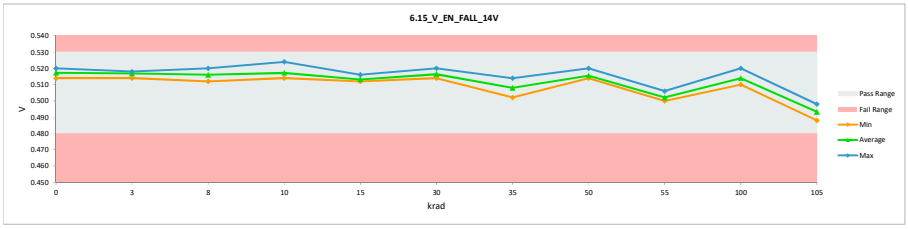
	6.15_V_EN_FALL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.518	0.518	0.000
0	236	0.514	0.514	0.000
0	563	0.520	0.520	0.000
3	717	0.518	0.518	0.000
3	685	0.514	0.514	0.000
3	360	0.514	0.516	0.002
3	427	0.518	0.518	0.000
3	785	0.518	0.518	0.000
8	770	0.518	0.516	-0.002
8	331	0.518	0.518	0.000
8	279	0.514	0.514	0.000
8	694	0.514	0.512	-0.002
8	337	0.522	0.520	-0.002
10	498	0.516	0.516	0.000
10	139	0.518	0.518	0.000
10	632	0.514	0.514	0.000
10	465	0.524	0.524	0.000
10	500	0.516	0.514	-0.002
15	209	0.516	0.514	-0.002
15	720	0.518	0.512	-0.006
15	327	0.516	0.512	-0.004
15	700	0.518	0.516	-0.002
15	851	0.514	0.512	-0.002
30	571	0.516	0.518	0.002
30	172	0.520	0.520	0.000
30	375	0.514	0.514	0.000
30	445	0.516	0.516	0.000
30	103	0.516	0.514	-0.002
35	119	0.516	0.510	-0.006
35	90	0.524	0.514	-0.010
35	297	0.510	0.502	-0.008
35	594	0.514	0.506	-0.008
35	586	0.516	0.508	-0.008
50	152	0.516	0.514	-0.002
50	359	0.518	0.514	-0.004
50	126	0.520	0.520	0.000
50	883	0.516	0.516	0.000
50	117	0.518	0.514	-0.004
55	301	0.514	0.500	-0.014
55	593	0.518	0.502	-0.016
55	374	0.516	0.500	-0.016
55	650	0.512	0.502	-0.010
55	324	0.516	0.506	-0.010
100	562	0.522	0.520	-0.002
100	753	0.514	0.512	-0.002
100	547	0.512	0.510	-0.002
100	724	0.520	0.518	-0.002
100	534	0.512	0.510	-0.002
105	265	0.510	0.488	-0.022
105	482	0.512	0.492	-0.020
105	372	0.520	0.498	-0.022
105	308	0.514	0.492	-0.022
105	438	0.516	0.496	-0.020
	Max	0.524	0.524	0.002
	Average	0.516	0.512	-0.005
	Min	0.510	0.488	-0.022
	Std Dev	0.003	0.008	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	8	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	0.514	0.514	0.512	0.514	0.512	0.514	0.502	0.514	0.500	0.510	0.488
Average	0.517	0.517	0.516	0.517	0.513	0.516	0.508	0.516	0.502	0.514	0.493
Max	0.520	0.518	0.520	0.524	0.516	0.520	0.514	0.520	0.506	0.520	0.498
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

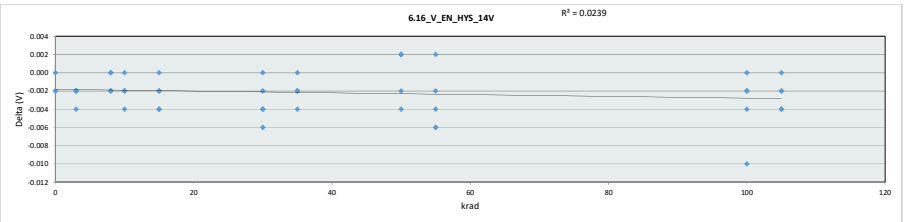


HDR TID Report
TPS7H5003-SP QMLP

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

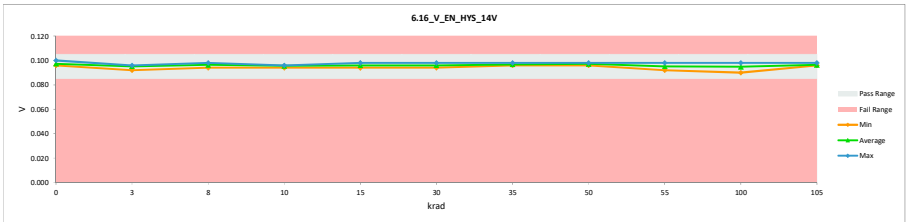
	6.16_V_EN_HYS_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.105	0.105
Min Limit	0.085	0.085

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.100	0.100	0.000
0	236	0.098	0.096	-0.002
0	563	0.098	0.096	-0.002
3	717	0.098	0.096	-0.002
3	685	0.098	0.096	-0.002
3	360	0.096	0.092	-0.004
3	427	0.098	0.096	-0.002
3	785	0.098	0.096	-0.002
8	770	0.096	0.096	0.000
8	331	0.100	0.098	-0.002
8	279	0.100	0.098	-0.002
8	694	0.098	0.096	-0.002
8	337	0.094	0.094	0.000
10	498	0.098	0.096	-0.002
10	139	0.098	0.096	-0.002
10	632	0.098	0.096	-0.002
10	465	0.100	0.096	-0.004
10	500	0.094	0.094	0.000
15	209	0.100	0.098	-0.002
15	720	0.094	0.094	0.000
15	327	0.096	0.094	-0.002
15	700	0.100	0.096	-0.004
15	851	0.102	0.098	-0.004
30	571	0.102	0.096	-0.006
30	172	0.098	0.096	-0.002
30	375	0.098	0.098	0.000
30	445	0.098	0.094	-0.004
30	103	0.100	0.096	-0.004
35	119	0.100	0.096	-0.004
35	90	0.098	0.098	0.000
35	297	0.100	0.098	-0.002
35	594	0.098	0.096	-0.002
35	586	0.098	0.096	-0.002
50	152	0.098	0.096	-0.002
50	359	0.096	0.098	0.002
50	126	0.096	0.098	0.002
50	883	0.100	0.096	-0.004
50	117	0.096	0.098	0.002
55	301	0.100	0.096	-0.004
55	593	0.096	0.098	0.002
55	374	0.098	0.096	-0.002
55	650	0.100	0.094	-0.006
55	324	0.098	0.092	-0.006
100	562	0.100	0.090	-0.010
100	753	0.098	0.098	0.000
100	547	0.098	0.096	-0.002
100	724	0.096	0.092	-0.004
100	534	0.100	0.098	-0.002
105	265	0.098	0.098	0.000
105	482	0.098	0.096	-0.002
105	372	0.098	0.096	-0.002
105	308	0.100	0.096	-0.004
105	438	0.100	0.096	-0.004
	Max	0.102	0.100	0.002
	Average	0.098	0.096	-0.002
	Min	0.094	0.090	-0.010
	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	8	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	0.096	0.092	0.094	0.094	0.094	0.094	0.096	0.096	0.092	0.090	0.096
Average	0.097	0.095	0.096	0.096	0.096	0.096	0.097	0.097	0.095	0.095	0.096
Max	0.100	0.096	0.098	0.096	0.098	0.098	0.098	0.098	0.098	0.098	0.098
UL	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105

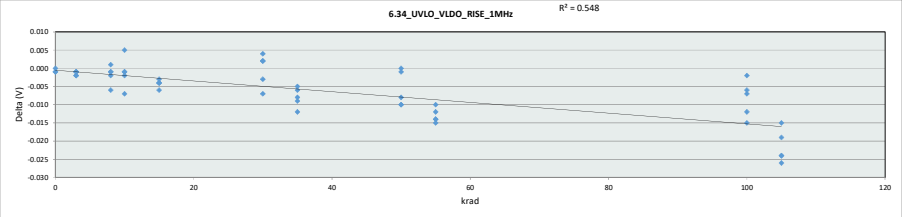


HDR TID Report
TPS7H5003-SP QMLP

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

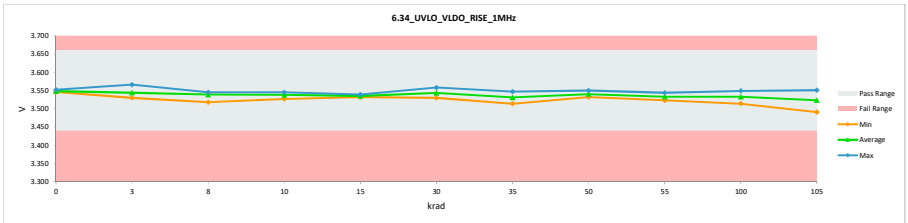
	6.34_UVLO_VLDO_RISE_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.547	3.547	0.000
0	236	3.547	3.546	-0.001
0	563	3.553	3.552	-0.001
3	717	3.541	3.540	-0.001
3	685	3.550	3.549	-0.001
3	360	3.535	3.534	-0.001
3	427	3.532	3.530	-0.002
3	785	3.568	3.566	-0.002
8	770	3.546	3.545	-0.001
8	331	3.547	3.545	-0.002
8	279	3.524	3.518	-0.006
8	694	3.542	3.543	0.001
8	337	3.545	3.544	-0.001
10	498	3.540	3.538	-0.002
10	139	3.546	3.545	-0.001
10	632	3.528	3.527	-0.001
10	465	3.543	3.536	-0.007
10	500	3.539	3.544	0.005
15	209	3.543	3.539	-0.004
15	720	3.536	3.532	-0.004
15	327	3.540	3.536	-0.004
15	700	3.537	3.534	-0.003
15	851	3.540	3.534	-0.006
30	571	3.556	3.558	0.002
30	172	3.537	3.530	-0.007
30	375	3.540	3.542	0.002
30	445	3.537	3.541	0.004
30	103	3.549	3.546	-0.003
35	119	3.538	3.533	-0.005
35	90	3.549	3.543	-0.006
35	297	3.555	3.547	-0.008
35	594	3.528	3.519	-0.009
35	586	3.526	3.514	-0.012
50	152	3.554	3.544	-0.010
50	359	3.532	3.532	0.000
50	126	3.560	3.550	-0.010
50	883	3.535	3.534	-0.001
50	117	3.550	3.542	-0.008
55	301	3.544	3.532	-0.012
55	593	3.559	3.544	-0.015
55	374	3.537	3.523	-0.014
55	650	3.542	3.532	-0.010
55	324	3.548	3.534	-0.014
100	562	3.547	3.541	-0.006
100	753	3.539	3.537	-0.002
100	547	3.532	3.525	-0.007
100	724	3.561	3.549	-0.012
100	534	3.529	3.514	-0.015
105	265	3.541	3.517	-0.024
105	482	3.517	3.491	-0.026
105	372	3.575	3.551	-0.024
105	308	3.547	3.528	-0.019
105	438	3.545	3.530	-0.015
	Max	3.575	3.566	0.005
	Average	3.543	3.537	-0.006
	Min	3.517	3.491	-0.026
	Std Dev	0.011	0.013	0.007



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

krad	0	3	8	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	3.546	3.530	3.518	3.527	3.532	3.530	3.514	3.532	3.523	3.514	3.491
Average	3.548	3.544	3.539	3.538	3.535	3.543	3.531	3.540	3.533	3.533	3.523
Max	3.552	3.566	3.545	3.545	3.539	3.558	3.547	3.550	3.544	3.549	3.551
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

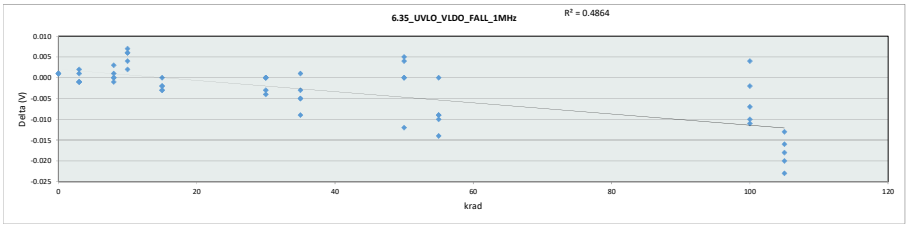


HDR TID Report
TPS7H5003-SP QMLP

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

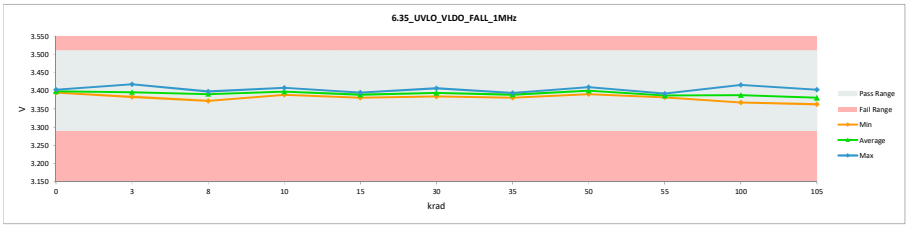
	6.35_UVLO_VLDO_FALL_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.396	3.397	0.001
0	236	3.394	3.395	0.001
0	563	3.402	3.403	0.001
3	717	3.393	3.395	0.002
3	685	3.397	3.398	0.001
3	360	3.388	3.387	-0.001
3	427	3.384	3.383	-0.001
3	785	3.419	3.418	-0.001
8	770	3.399	3.398	-0.001
8	331	3.395	3.395	0.000
8	279	3.372	3.372	0.000
8	694	3.389	3.392	0.003
8	337	3.396	3.397	0.001
10	498	3.398	3.404	0.006
10	139	3.395	3.397	0.002
10	632	3.383	3.389	0.006
10	465	3.401	3.408	0.007
10	500	3.387	3.391	0.004
15	209	3.392	3.390	-0.002
15	720	3.384	3.381	-0.003
15	327	3.392	3.390	-0.002
15	700	3.395	3.395	0.000
15	851	3.394	3.391	-0.003
30	571	3.410	3.407	-0.003
30	172	3.388	3.384	-0.004
30	375	3.393	3.393	0.000
30	445	3.390	3.390	0.000
30	103	3.397	3.397	0.000
35	119	3.396	3.391	-0.005
35	90	3.398	3.393	-0.005
35	297	3.403	3.394	-0.009
35	594	3.390	3.387	-0.003
35	586	3.380	3.381	0.001
50	152	3.405	3.410	0.005
50	359	3.391	3.391	0.000
50	126	3.412	3.400	-0.012
50	883	3.399	3.399	0.000
50	117	3.398	3.402	0.004
55	301	3.391	3.382	-0.009
55	593	3.406	3.392	-0.014
55	374	3.384	3.384	0.000
55	650	3.399	3.389	-0.010
55	324	3.397	3.388	-0.009
100	562	3.396	3.389	-0.007
100	753	3.397	3.386	-0.011
100	547	3.383	3.381	-0.002
100	724	3.412	3.416	0.004
100	534	3.378	3.368	-0.010
105	265	3.389	3.366	-0.023
105	482	3.379	3.363	-0.016
105	372	3.423	3.403	-0.020
105	308	3.399	3.386	-0.013
105	438	3.404	3.386	-0.018
	Max	3.423	3.418	0.007
	Average	3.395	3.392	-0.003
	Min	3.372	3.363	-0.023
	Std Dev	0.010	0.011	0.007



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

krad	0	3	8	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	3.395	3.383	3.372	3.389	3.381	3.384	3.381	3.391	3.382	3.368	3.363
Average	3.398	3.396	3.391	3.398	3.389	3.394	3.389	3.400	3.387	3.388	3.381
Max	3.403	3.418	3.398	3.408	3.395	3.407	3.394	3.410	3.392	3.416	3.403
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

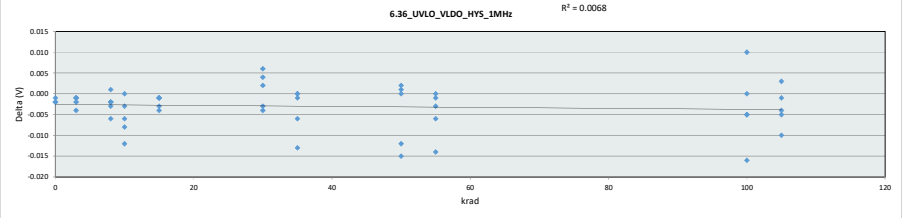


HDR TID Report
TPS7H5003-SP QMLP

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

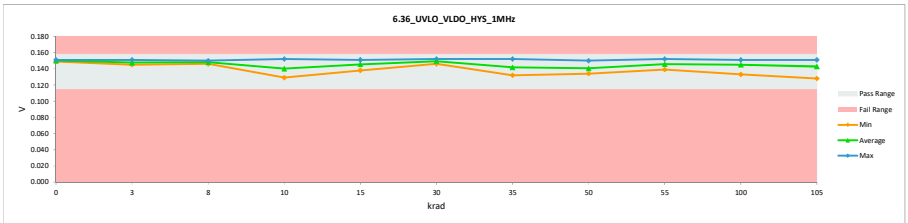
	6.36_UVLO_VLDO_HYS_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.158	0.158
Min Limit	0.115	0.115

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.151	0.150	-0.001
0	236	0.153	0.151	-0.002
0	563	0.151	0.149	-0.002
3	717	0.149	0.145	-0.004
3	685	0.153	0.151	-0.002
3	360	0.148	0.147	-0.001
3	427	0.148	0.147	-0.001
3	785	0.149	0.148	-0.001
8	770	0.146	0.147	0.001
8	331	0.152	0.150	-0.002
8	279	0.152	0.146	-0.006
8	694	0.153	0.150	-0.003
8	337	0.149	0.147	-0.002
10	498	0.142	0.134	-0.008
10	139	0.151	0.148	-0.003
10	632	0.144	0.138	-0.006
10	465	0.141	0.129	-0.012
10	500	0.152	0.152	0.000
15	209	0.150	0.149	-0.001
15	720	0.152	0.151	-0.001
15	327	0.147	0.146	-0.001
15	700	0.142	0.138	-0.004
15	851	0.146	0.143	-0.003
30	571	0.146	0.152	0.006
30	172	0.150	0.146	-0.004
30	375	0.147	0.149	0.002
30	445	0.147	0.151	0.004
30	103	0.152	0.149	-0.003
35	119	0.142	0.142	0.000
35	90	0.151	0.150	-0.001
35	297	0.152	0.152	0.000
35	594	0.138	0.132	-0.006
35	586	0.146	0.133	-0.013
50	152	0.149	0.134	-0.015
50	359	0.141	0.142	0.001
50	126	0.148	0.150	0.002
50	883	0.136	0.136	0.000
50	117	0.152	0.140	-0.012
55	301	0.153	0.150	-0.003
55	593	0.153	0.152	-0.001
55	374	0.153	0.139	-0.014
55	650	0.143	0.143	0.000
55	324	0.151	0.145	-0.006
100	562	0.151	0.151	0.000
100	753	0.141	0.151	0.010
100	547	0.149	0.144	-0.005
100	724	0.149	0.133	-0.016
100	534	0.151	0.146	-0.005
105	265	0.152	0.151	-0.001
105	482	0.138	0.128	-0.010
105	372	0.152	0.148	-0.004
105	308	0.148	0.143	-0.005
105	438	0.141	0.144	0.003
	Max	0.153	0.152	0.010
	Average	0.148	0.145	-0.003
	Min	0.136	0.128	-0.016
	Std Dev	0.005	0.007	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	8	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	0.149	0.145	0.146	0.129	0.138	0.146	0.132	0.134	0.139	0.133	0.128
Average	0.150	0.148	0.148	0.140	0.145	0.149	0.142	0.140	0.146	0.145	0.143
Max	0.151	0.151	0.150	0.152	0.151	0.152	0.152	0.150	0.152	0.151	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

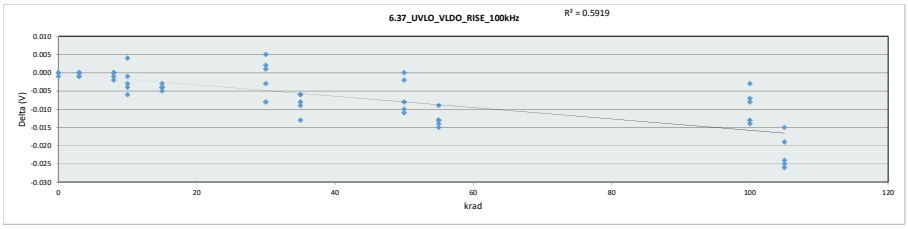


HDR TID Report
TPS7H5003-SP QMLP

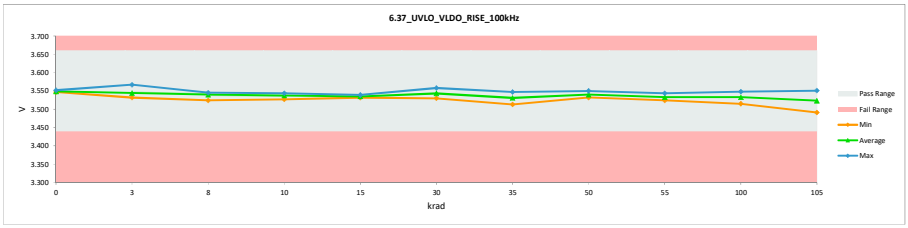
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	6.37_UVLO_VLDO_RISE_100kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.547	3.547	0.000
0	236	3.547	3.547	0.000
0	563	3.553	3.552	-0.001
3	717	3.541	3.541	0.000
3	685	3.549	3.549	0.000
3	360	3.535	3.534	-0.001
3	427	3.532	3.532	0.000
3	785	3.568	3.567	-0.001
8	770	3.545	3.545	0.000
8	331	3.547	3.545	-0.002
8	279	3.524	3.524	0.000
8	694	3.542	3.542	0.000
8	337	3.545	3.544	-0.001
10	498	3.540	3.536	-0.004
10	139	3.547	3.544	-0.003
10	632	3.528	3.527	-0.001
10	465	3.543	3.537	-0.006
10	500	3.540	3.544	0.004
15	209	3.543	3.539	-0.004
15	720	3.536	3.532	-0.004
15	327	3.540	3.536	-0.004
15	700	3.537	3.534	-0.003
15	851	3.539	3.534	-0.005
30	571	3.556	3.558	0.002
30	172	3.538	3.530	-0.008
30	375	3.540	3.541	0.001
30	445	3.537	3.542	0.005
30	103	3.548	3.545	-0.003
35	119	3.538	3.532	-0.006
35	90	3.549	3.543	-0.006
35	297	3.555	3.547	-0.008
35	594	3.528	3.519	-0.009
35	586	3.526	3.513	-0.013
50	152	3.555	3.544	-0.011
50	359	3.532	3.532	0.000
50	126	3.560	3.550	-0.010
50	883	3.535	3.533	-0.002
50	117	3.549	3.541	-0.008
55	301	3.544	3.531	-0.013
55	593	3.559	3.544	-0.015
55	374	3.537	3.524	-0.013
55	650	3.542	3.533	-0.009
55	324	3.548	3.534	-0.014
100	562	3.548	3.541	-0.007
100	753	3.539	3.536	-0.003
100	547	3.532	3.524	-0.008
100	724	3.561	3.548	-0.013
100	534	3.529	3.515	-0.014
105	265	3.541	3.517	-0.024
105	482	3.517	3.491	-0.026
105	372	3.576	3.551	-0.025
105	308	3.547	3.528	-0.019
105	438	3.545	3.530	-0.015
	Max	3.576	3.567	0.005
	Average	3.543	3.537	-0.006
	Min	3.517	3.491	-0.026
	Std Dev	0.011	0.012	0.007



	6.37_UVLO_VLDO_RISE_100kHz										
Test Site											
Tester											
Test Number											
Max Limit	3.66	V									
Min Limit	3.44	V									
krad	0	3	8	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	3.547	3.532	3.524	3.527	3.532	3.530	3.513	3.532	3.524	3.515	3.491
Average	3.549	3.545	3.540	3.538	3.535	3.543	3.531	3.540	3.533	3.533	3.523
Max	3.552	3.567	3.545	3.544	3.539	3.558	3.547	3.550	3.544	3.548	3.551
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

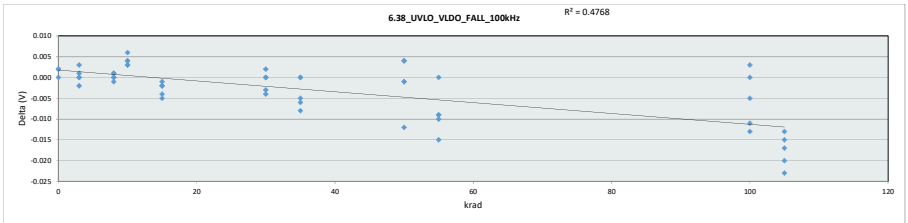


HDR TID Report
TPS7H5003-SP QMLP

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

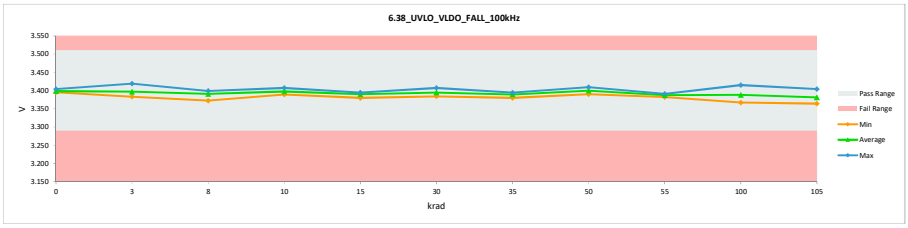
	6.38_UVLO_VLDO_FALL_100kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.396	3.396	0.000
0	236	3.393	3.395	0.002
0	563	3.402	3.404	0.002
3	717	3.393	3.396	0.003
3	685	3.397	3.398	0.001
3	360	3.388	3.388	0.000
3	427	3.385	3.383	-0.002
3	785	3.419	3.419	0.000
8	770	3.398	3.399	0.001
8	331	3.395	3.395	0.000
8	279	3.373	3.372	-0.001
8	694	3.390	3.391	0.001
8	337	3.396	3.396	0.000
10	498	3.399	3.402	0.003
10	139	3.395	3.398	0.003
10	632	3.385	3.389	0.004
10	465	3.401	3.407	0.006
10	500	3.387	3.391	0.004
15	209	3.393	3.392	-0.001
15	720	3.384	3.380	-0.004
15	327	3.394	3.389	-0.005
15	700	3.396	3.394	-0.002
15	851	3.395	3.393	-0.002
30	571	3.410	3.407	-0.003
30	172	3.388	3.384	-0.004
30	375	3.394	3.394	0.000
30	445	3.389	3.389	0.000
30	103	3.396	3.398	0.002
35	119	3.397	3.391	-0.006
35	90	3.398	3.393	-0.005
35	297	3.402	3.394	-0.008
35	594	3.388	3.388	0.000
35	586	3.380	3.380	0.000
50	152	3.405	3.409	0.004
50	359	3.391	3.390	-0.001
50	126	3.411	3.399	-0.012
50	883	3.399	3.398	-0.001
50	117	3.399	3.403	0.004
55	301	3.392	3.382	-0.010
55	593	3.406	3.391	-0.015
55	374	3.385	3.385	0.000
55	650	3.399	3.390	-0.009
55	324	3.397	3.388	-0.009
100	562	3.395	3.390	-0.005
100	753	3.398	3.385	-0.013
100	547	3.383	3.383	0.000
100	724	3.412	3.415	0.003
100	534	3.378	3.367	-0.011
105	265	3.390	3.367	-0.023
105	482	3.379	3.364	-0.015
105	372	3.424	3.404	-0.020
105	308	3.398	3.385	-0.013
105	438	3.403	3.386	-0.017
	Max	3.424	3.419	0.006
	Average	3.395	3.392	-0.003
	Min	3.373	3.364	-0.023
	Std Dev	0.010	0.011	0.007



	6.38_UVLO_VLDO_FALL_100kHz	
Test Site		
Tester		
Test Number		
Max Limit	3.51	V
Min Limit	3.29	V

krad	0	3	8	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	3.395	3.383	3.372	3.389	3.380	3.384	3.380	3.390	3.382	3.367	3.364
Average	3.398	3.397	3.391	3.397	3.390	3.394	3.389	3.400	3.387	3.388	3.381
Max	3.404	3.419	3.399	3.407	3.394	3.407	3.394	3.409	3.391	3.415	3.404
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

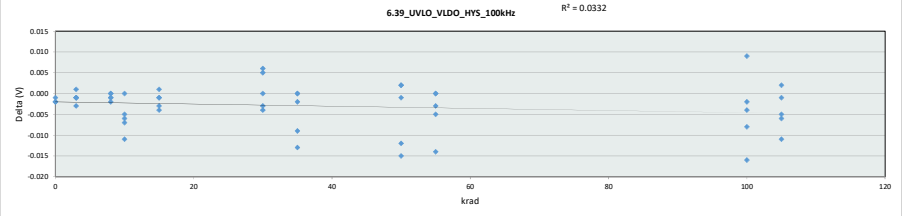


HDR TID Report
TPS7H5003-SP QMLP

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

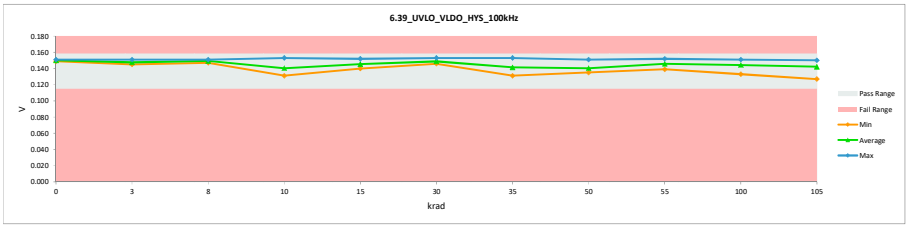
	6.39_UVLO_VLDO_HYS_100kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.158	0.158
Min Limit	0.115	0.115

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.151	0.150	-0.001
0	236	0.153	0.151	-0.002
0	563	0.151	0.149	-0.002
3	717	0.148	0.145	-0.003
3	685	0.152	0.151	-0.001
3	360	0.147	0.146	-0.001
3	427	0.147	0.148	0.001
3	785	0.149	0.148	-0.001
8	770	0.147	0.147	0.000
8	331	0.152	0.150	-0.002
8	279	0.151	0.151	0.000
8	694	0.152	0.151	-0.001
8	337	0.149	0.148	-0.001
10	498	0.141	0.134	-0.007
10	139	0.152	0.146	-0.006
10	632	0.143	0.138	-0.005
10	465	0.142	0.131	-0.011
10	500	0.153	0.153	0.000
15	209	0.150	0.147	-0.003
15	720	0.153	0.152	-0.001
15	327	0.146	0.147	0.001
15	700	0.141	0.140	-0.001
15	851	0.145	0.141	-0.004
30	571	0.146	0.151	0.005
30	172	0.149	0.146	-0.003
30	375	0.147	0.147	0.000
30	445	0.147	0.153	0.006
30	103	0.151	0.147	-0.004
35	119	0.141	0.141	0.000
35	90	0.151	0.149	-0.002
35	297	0.153	0.153	0.000
35	594	0.140	0.131	-0.009
35	586	0.146	0.133	-0.013
50	152	0.150	0.135	-0.015
50	359	0.141	0.143	0.002
50	126	0.149	0.151	0.002
50	883	0.136	0.135	-0.001
50	117	0.150	0.138	-0.012
55	301	0.152	0.149	-0.003
55	593	0.152	0.152	0.000
55	374	0.153	0.139	-0.014
55	650	0.143	0.143	0.000
55	324	0.151	0.146	-0.005
100	562	0.153	0.151	-0.002
100	753	0.141	0.150	0.009
100	547	0.149	0.141	-0.008
100	724	0.149	0.133	-0.016
100	534	0.151	0.147	-0.004
105	265	0.151	0.150	-0.001
105	482	0.138	0.127	-0.011
105	372	0.152	0.147	-0.005
105	308	0.149	0.143	-0.006
105	438	0.142	0.144	0.002
	Max	0.153	0.153	0.009
	Average	0.148	0.145	-0.003
	Min	0.136	0.127	-0.016
	Std Dev	0.005	0.007	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	8	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	0.149	0.145	0.147	0.131	0.140	0.146	0.131	0.135	0.139	0.133	0.127
Average	0.150	0.148	0.149	0.140	0.145	0.149	0.141	0.140	0.146	0.144	0.142
Max	0.151	0.151	0.151	0.153	0.152	0.153	0.153	0.151	0.152	0.151	0.150
UL	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

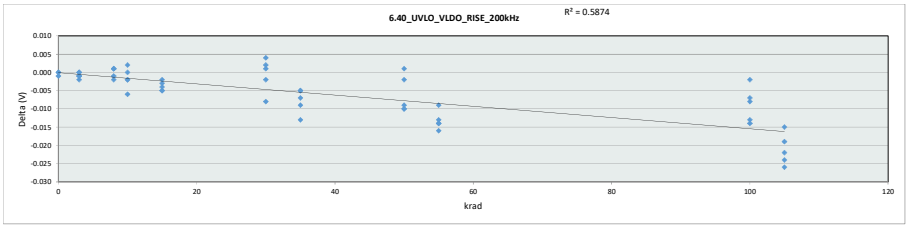


HDR TID Report
TPS7H5003-SP QMLP

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

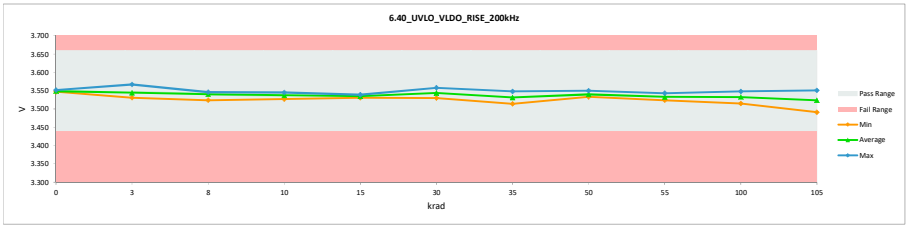
	6.40_UVLO_VLDO_RISE_200kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.547	3.547	0.000
0	236	3.547	3.547	0.000
0	563	3.553	3.552	-0.001
3	717	3.541	3.541	0.000
3	685	3.549	3.549	0.000
3	360	3.536	3.534	-0.002
3	427	3.532	3.531	-0.001
3	785	3.568	3.567	-0.001
8	770	3.545	3.546	0.001
8	331	3.547	3.545	-0.002
8	279	3.525	3.524	-0.001
8	694	3.542	3.543	0.001
8	337	3.544	3.545	0.001
10	498	3.540	3.538	-0.002
10	139	3.547	3.545	-0.002
10	632	3.527	3.527	0.000
10	465	3.543	3.537	-0.006
10	500	3.540	3.542	0.002
15	209	3.543	3.539	-0.004
15	720	3.536	3.531	-0.005
15	327	3.539	3.536	-0.003
15	700	3.535	3.533	-0.002
15	851	3.539	3.534	-0.005
30	571	3.556	3.558	0.002
30	172	3.538	3.530	-0.008
30	375	3.541	3.542	0.001
30	445	3.537	3.541	0.004
30	103	3.548	3.546	-0.002
35	119	3.538	3.533	-0.005
35	90	3.549	3.544	-0.005
35	297	3.555	3.548	-0.007
35	594	3.528	3.519	-0.009
35	586	3.527	3.514	-0.013
50	152	3.554	3.544	-0.010
50	359	3.532	3.533	0.001
50	126	3.559	3.550	-0.009
50	883	3.535	3.533	-0.002
50	117	3.550	3.540	-0.010
55	301	3.545	3.531	-0.014
55	593	3.559	3.543	-0.016
55	374	3.537	3.524	-0.013
55	650	3.542	3.533	-0.009
55	324	3.548	3.534	-0.014
100	562	3.547	3.540	-0.007
100	753	3.539	3.537	-0.002
100	547	3.532	3.524	-0.008
100	724	3.561	3.548	-0.013
100	534	3.529	3.515	-0.014
105	265	3.540	3.518	-0.022
105	482	3.517	3.491	-0.026
105	372	3.575	3.551	-0.024
105	308	3.547	3.528	-0.019
105	438	3.545	3.530	-0.015
	Max	3.575	3.567	0.004
	Average	3.543	3.537	-0.006
	Min	3.517	3.491	-0.026
	Std Dev	0.011	0.012	0.007



	6.40_UVLO_VLDO_RISE_200kH	
Test Site		
Tester		
Test Number		
Max Limit	3.66	V
Min Limit	3.44	V

krad	0	3	8	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	3.547	3.531	3.524	3.527	3.531	3.530	3.514	3.533	3.524	3.515	3.491
Average	3.549	3.544	3.541	3.538	3.535	3.543	3.532	3.540	3.533	3.533	3.524
Max	3.552	3.567	3.546	3.545	3.539	3.558	3.548	3.550	3.543	3.548	3.551
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

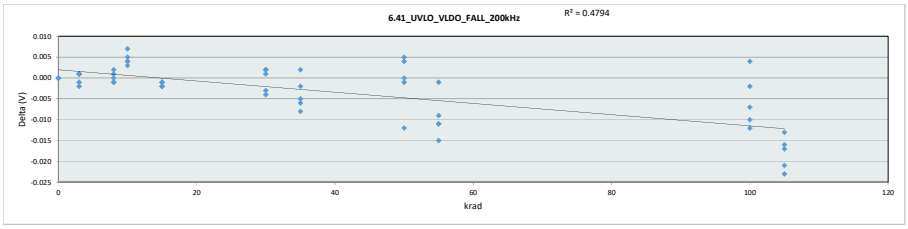


HDR TID Report
TPS7H5003-SP QMLP

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

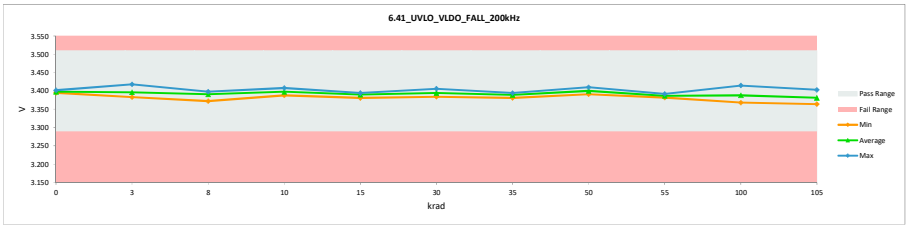
	6.41_UVLO_VLDO_FALL_200kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.396	3.396	0.000
0	236	3.395	3.395	0.000
0	563	3.402	3.402	0.000
3	717	3.394	3.395	0.001
3	685	3.397	3.398	0.001
3	360	3.387	3.388	0.001
3	427	3.385	3.383	-0.002
3	785	3.419	3.418	-0.001
8	770	3.399	3.398	-0.001
8	331	3.395	3.395	0.000
8	279	3.373	3.372	-0.001
8	694	3.390	3.391	0.001
8	337	3.396	3.398	0.002
10	498	3.399	3.403	0.004
10	139	3.396	3.399	0.003
10	632	3.384	3.388	0.004
10	465	3.401	3.408	0.007
10	500	3.386	3.391	0.005
15	209	3.393	3.392	-0.001
15	720	3.383	3.381	-0.002
15	327	3.392	3.390	-0.002
15	700	3.395	3.394	-0.001
15	851	3.394	3.392	-0.002
30	571	3.409	3.406	-0.003
30	172	3.388	3.384	-0.004
30	375	3.392	3.394	0.002
30	445	3.390	3.391	0.001
30	103	3.395	3.397	0.002
35	119	3.396	3.391	-0.005
35	90	3.398	3.392	-0.006
35	297	3.402	3.394	-0.008
35	594	3.389	3.387	-0.002
35	586	3.379	3.381	0.002
50	152	3.405	3.410	0.005
50	359	3.391	3.391	0.000
50	126	3.412	3.400	-0.012
50	883	3.399	3.398	-0.001
50	117	3.398	3.402	0.004
55	301	3.391	3.382	-0.009
55	593	3.407	3.392	-0.015
55	374	3.385	3.384	-0.001
55	650	3.399	3.388	-0.011
55	324	3.398	3.387	-0.011
100	562	3.396	3.389	-0.007
100	753	3.398	3.386	-0.012
100	547	3.384	3.382	-0.002
100	724	3.411	3.415	0.004
100	534	3.378	3.368	-0.010
105	265	3.390	3.367	-0.023
105	482	3.380	3.364	-0.016
105	372	3.424	3.403	-0.021
105	308	3.399	3.386	-0.013
105	438	3.403	3.386	-0.017
	Max	3.424	3.418	0.007
	Average	3.395	3.392	-0.003
	Min	3.373	3.364	-0.023
	Std Dev	0.010	0.011	0.007



	6.41_UVLO_VLDO_FALL_200kH	
Test Site		
Tester		
Test Number		
Max Limit	3.51	V
Min Limit	3.29	V

krad	0	3	8	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	3.395	3.383	3.372	3.388	3.381	3.384	3.381	3.391	3.382	3.368	3.364
Average	3.398	3.396	3.391	3.398	3.390	3.394	3.389	3.400	3.387	3.388	3.381
Max	3.402	3.418	3.398	3.408	3.394	3.406	3.394	3.410	3.392	3.415	3.403
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

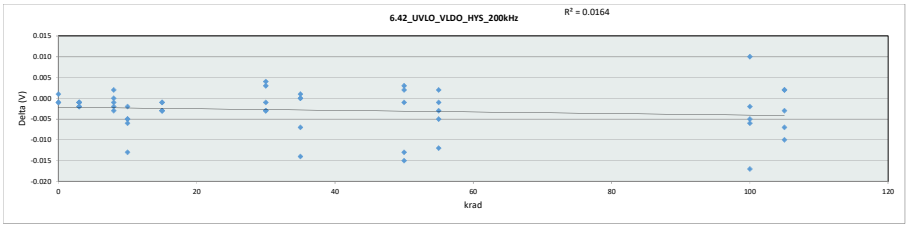


HDR TID Report
TPS7H5003-SP QMLP

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

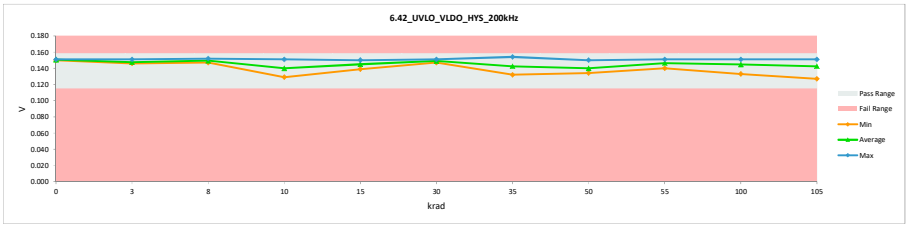
	6.42_UVLO_VLDO_HYS_200kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.158	0.158
Min Limit	0.115	0.115

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.150	0.151	0.001
0	236	0.152	0.151	-0.001
0	563	0.151	0.150	-0.001
3	717	0.148	0.146	-0.002
3	685	0.152	0.151	-0.001
3	360	0.148	0.146	-0.002
3	427	0.148	0.147	-0.001
3	785	0.149	0.148	-0.001
8	770	0.146	0.148	0.002
8	331	0.152	0.149	-0.003
8	279	0.152	0.152	0.000
8	694	0.152	0.151	-0.001
8	337	0.149	0.147	-0.002
10	498	0.141	0.136	-0.005
10	139	0.151	0.146	-0.005
10	632	0.144	0.138	-0.006
10	465	0.142	0.129	-0.013
10	500	0.153	0.151	-0.002
15	209	0.150	0.147	-0.003
15	720	0.153	0.150	-0.003
15	327	0.147	0.146	-0.001
15	700	0.140	0.139	-0.001
15	851	0.146	0.143	-0.003
30	571	0.147	0.151	0.004
30	172	0.150	0.147	-0.003
30	375	0.149	0.148	-0.001
30	445	0.147	0.150	0.003
30	103	0.152	0.149	-0.003
35	119	0.142	0.142	0.000
35	90	0.151	0.151	0.000
35	297	0.153	0.154	0.001
35	594	0.139	0.132	-0.007
35	586	0.147	0.133	-0.014
50	152	0.149	0.134	-0.015
50	359	0.140	0.142	0.002
50	126	0.147	0.150	0.003
50	883	0.136	0.135	-0.001
50	117	0.152	0.139	-0.013
55	301	0.154	0.149	-0.005
55	593	0.152	0.151	-0.001
55	374	0.152	0.140	-0.012
55	650	0.143	0.145	0.002
55	324	0.150	0.147	-0.003
100	562	0.152	0.150	-0.002
100	753	0.141	0.151	0.010
100	547	0.148	0.142	-0.006
100	724	0.150	0.133	-0.017
100	534	0.152	0.147	-0.005
105	265	0.149	0.151	0.002
105	482	0.137	0.127	-0.010
105	372	0.151	0.148	-0.003
105	308	0.149	0.142	-0.007
105	438	0.142	0.144	0.002
	Max	0.154	0.154	0.010
	Average	0.148	0.145	-0.003
	Min	0.136	0.127	-0.017
	Std Dev	0.005	0.007	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	8	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	0.150	0.146	0.147	0.129	0.139	0.147	0.132	0.134	0.140	0.133	0.127
Average	0.151	0.148	0.149	0.140	0.145	0.149	0.142	0.140	0.146	0.145	0.142
Max	0.151	0.151	0.152	0.151	0.150	0.151	0.154	0.150	0.151	0.151	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

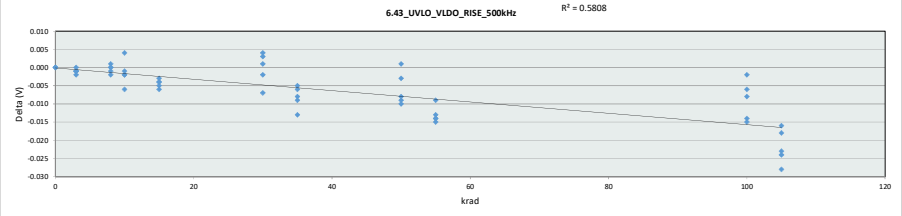


HDR TID Report
TPS7H5003-SP QMLP

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

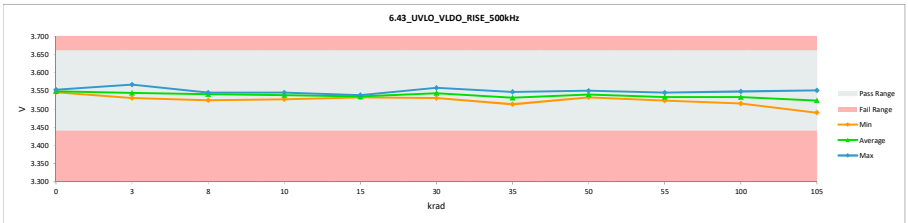
	6.43_UVLO_VLDO_RISE_500kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.546	3.546	0.000
0	236	3.547	3.547	0.000
0	563	3.553	3.553	0.000
3	717	3.541	3.540	-0.001
3	685	3.549	3.548	-0.001
3	360	3.535	3.535	0.000
3	427	3.532	3.530	-0.002
3	785	3.568	3.567	-0.001
8	770	3.545	3.545	0.000
8	331	3.547	3.545	-0.002
8	279	3.525	3.524	-0.001
8	694	3.543	3.543	0.000
8	337	3.544	3.545	0.001
10	498	3.540	3.538	-0.002
10	139	3.547	3.545	-0.002
10	632	3.528	3.527	-0.001
10	465	3.543	3.537	-0.006
10	500	3.539	3.543	0.004
15	209	3.542	3.538	-0.004
15	720	3.536	3.532	-0.004
15	327	3.540	3.535	-0.005
15	700	3.537	3.534	-0.003
15	851	3.539	3.533	-0.006
30	571	3.555	3.558	0.003
30	172	3.537	3.530	-0.007
30	375	3.541	3.542	0.001
30	445	3.537	3.541	0.004
30	103	3.548	3.546	-0.002
35	119	3.538	3.533	-0.005
35	90	3.549	3.543	-0.006
35	297	3.555	3.547	-0.008
35	594	3.528	3.519	-0.009
35	586	3.526	3.513	-0.013
50	152	3.554	3.544	-0.010
50	359	3.532	3.533	0.001
50	126	3.559	3.550	-0.009
50	883	3.535	3.532	-0.003
50	117	3.549	3.541	-0.008
55	301	3.544	3.531	-0.013
55	593	3.559	3.545	-0.014
55	374	3.537	3.523	-0.014
55	650	3.541	3.532	-0.009
55	324	3.549	3.534	-0.015
100	562	3.547	3.541	-0.006
100	753	3.538	3.536	-0.002
100	547	3.532	3.524	-0.008
100	724	3.562	3.548	-0.014
100	534	3.530	3.515	-0.015
105	265	3.540	3.517	-0.023
105	482	3.518	3.490	-0.028
105	372	3.575	3.551	-0.024
105	308	3.547	3.529	-0.018
105	438	3.546	3.530	-0.016
	Max	3.575	3.567	0.004
	Average	3.543	3.537	-0.006
	Min	3.518	3.490	-0.028
	Std Dev	0.011	0.013	0.007



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

krad	0	3	8	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	3.546	3.530	3.524	3.527	3.532	3.530	3.513	3.532	3.523	3.515	3.490
Average	3.549	3.544	3.540	3.538	3.534	3.543	3.531	3.540	3.533	3.533	3.523
Max	3.553	3.567	3.545	3.545	3.538	3.558	3.547	3.550	3.545	3.548	3.551
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

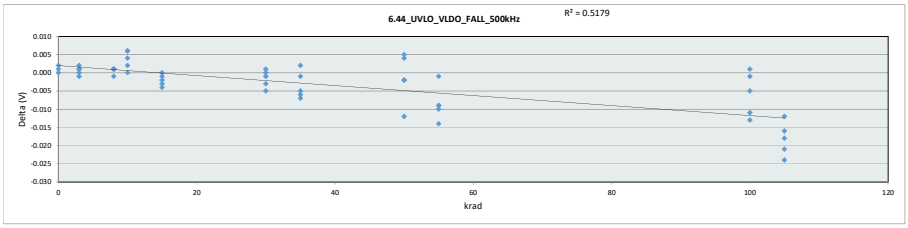


HDR TID Report
TPS7H5003-SP QMLP

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

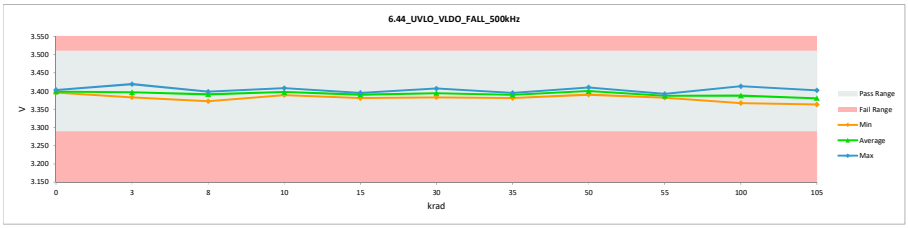
	6.44_UVLO_VLDO_FALL_500kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.396	3.396	0.000
0	236	3.394	3.396	0.002
0	563	3.402	3.403	0.001
3	717	3.393	3.395	0.002
3	685	3.398	3.398	0.000
3	360	3.387	3.388	0.001
3	427	3.384	3.383	-0.001
3	785	3.418	3.419	0.001
8	770	3.399	3.398	-0.001
8	331	3.395	3.396	0.001
8	279	3.371	3.372	0.001
8	694	3.391	3.392	0.001
8	337	3.396	3.397	0.001
10	498	3.398	3.402	0.004
10	139	3.395	3.397	0.002
10	632	3.389	3.389	0.000
10	465	3.402	3.408	0.006
10	500	3.386	3.392	0.006
15	209	3.393	3.391	-0.002
15	720	3.384	3.381	-0.003
15	327	3.394	3.390	-0.004
15	700	3.395	3.395	0.000
15	851	3.394	3.393	-0.001
30	571	3.410	3.407	-0.003
30	172	3.388	3.383	-0.005
30	375	3.394	3.393	-0.001
30	445	3.390	3.391	0.001
30	103	3.397	3.397	0.000
35	119	3.397	3.392	-0.005
35	90	3.399	3.393	-0.006
35	297	3.402	3.395	-0.007
35	594	3.389	3.388	-0.001
35	586	3.379	3.381	0.002
50	152	3.405	3.410	0.005
50	359	3.392	3.390	-0.002
50	126	3.411	3.399	-0.012
50	883	3.400	3.398	-0.002
50	117	3.398	3.402	0.004
55	301	3.391	3.382	-0.009
55	593	3.406	3.392	-0.014
55	374	3.385	3.384	-0.001
55	650	3.398	3.389	-0.009
55	324	3.398	3.388	-0.010
100	562	3.395	3.390	-0.005
100	753	3.398	3.385	-0.013
100	547	3.383	3.382	-0.001
100	724	3.412	3.413	0.001
100	534	3.378	3.367	-0.011
105	265	3.390	3.366	-0.024
105	482	3.379	3.363	-0.016
105	372	3.423	3.402	-0.021
105	308	3.398	3.386	-0.012
105	438	3.402	3.384	-0.018
	Max	3.423	3.419	0.006
	Average	3.395	3.392	-0.003
	Min	3.371	3.363	-0.024
	Std Dev	0.010	0.011	0.007



	6.44_UVLO_VLDO_FALL_500kHz	
Test Site		
Tester		
Test Number		
Max Limit	3.51	V
Min Limit	3.29	V

krad	0	3	8	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	3.396	3.383	3.372	3.389	3.381	3.383	3.381	3.390	3.382	3.367	3.363
Average	3.398	3.397	3.391	3.398	3.390	3.394	3.390	3.400	3.387	3.387	3.380
Max	3.403	3.419	3.398	3.408	3.395	3.407	3.395	3.410	3.392	3.413	3.402
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

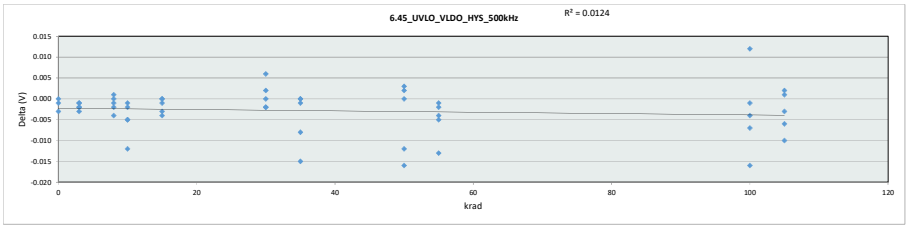


HDR TID Report
TPS7H5003-SP QMLP

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

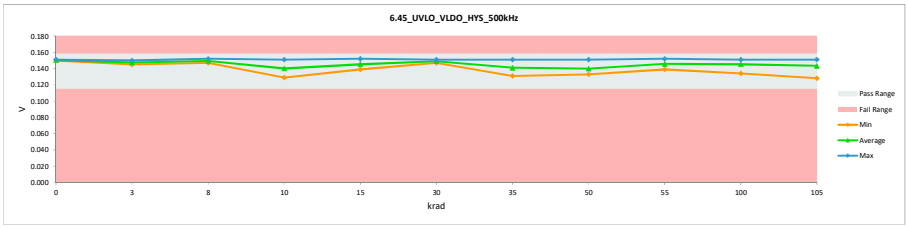
	6.45_UVLO_VLDO_HYS_500kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.158	0.158
Min Limit	0.115	0.115

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.150	0.150	0.000
0	236	0.154	0.151	-0.003
0	563	0.151	0.150	-0.001
3	717	0.148	0.145	-0.003
3	685	0.151	0.150	-0.001
3	360	0.148	0.147	-0.001
3	427	0.149	0.147	-0.002
3	785	0.150	0.148	-0.002
8	770	0.146	0.147	0.001
8	331	0.153	0.149	-0.004
8	279	0.154	0.152	-0.002
8	694	0.152	0.151	-0.001
8	337	0.148	0.148	0.000
10	498	0.141	0.136	-0.005
10	139	0.152	0.147	-0.005
10	632	0.139	0.138	-0.001
10	465	0.141	0.129	-0.012
10	500	0.153	0.151	-0.002
15	209	0.149	0.148	-0.001
15	720	0.152	0.152	0.000
15	327	0.146	0.146	0.000
15	700	0.142	0.139	-0.003
15	851	0.145	0.141	-0.004
30	571	0.145	0.151	0.006
30	172	0.149	0.147	-0.002
30	375	0.148	0.148	0.000
30	445	0.148	0.150	0.002
30	103	0.151	0.149	-0.002
35	119	0.141	0.141	0.000
35	90	0.150	0.150	0.000
35	297	0.152	0.151	-0.001
35	594	0.139	0.131	-0.008
35	586	0.147	0.132	-0.015
50	152	0.149	0.133	-0.016
50	359	0.140	0.143	0.003
50	126	0.149	0.151	0.002
50	883	0.134	0.134	0.000
50	117	0.151	0.139	-0.012
55	301	0.153	0.149	-0.004
55	593	0.154	0.152	-0.002
55	374	0.152	0.139	-0.013
55	650	0.144	0.143	-0.001
55	324	0.151	0.146	-0.005
100	562	0.152	0.151	-0.001
100	753	0.139	0.151	0.012
100	547	0.149	0.142	-0.007
100	724	0.150	0.134	-0.016
100	534	0.152	0.148	-0.004
105	265	0.150	0.151	0.001
105	482	0.138	0.128	-0.010
105	372	0.152	0.149	-0.003
105	308	0.149	0.143	-0.006
105	438	0.144	0.146	0.002
	Max	0.154	0.152	0.012
	Average	0.148	0.145	-0.003
	Min	0.134	0.128	-0.016
	Std Dev	0.005	0.007	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	8	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	0.150	0.145	0.147	0.129	0.139	0.147	0.131	0.133	0.139	0.134	0.128
Average	0.150	0.147	0.149	0.140	0.145	0.149	0.141	0.140	0.146	0.145	0.143
Max	0.151	0.150	0.152	0.151	0.152	0.151	0.151	0.151	0.152	0.151	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

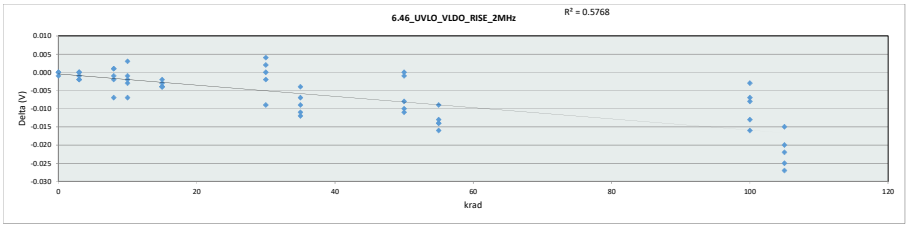


HDR TID Report
TPS7H5003-SP QMLP

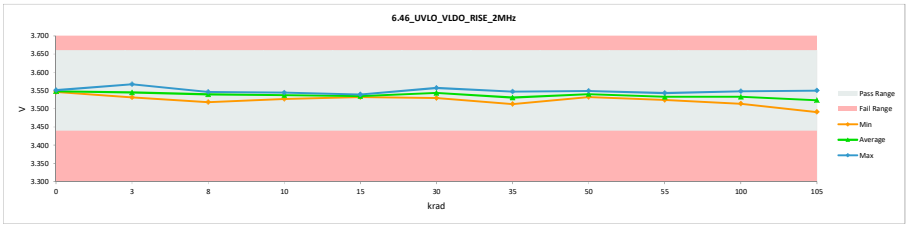
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	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 #	PRE_HDR	POST_HDR	Delta
0	797	3.546	3.546	0.000
0	236	3.547	3.547	0.000
0	563	3.552	3.551	-0.001
3	717	3.542	3.542	0.000
3	685	3.549	3.549	0.000
3	360	3.536	3.534	-0.002
3	427	3.532	3.531	-0.001
3	785	3.569	3.567	-0.002
8	770	3.545	3.546	0.001
8	331	3.548	3.546	-0.002
8	279	3.525	3.518	-0.007
8	694	3.542	3.543	0.001
8	337	3.546	3.545	-0.001
10	498	3.540	3.538	-0.002
10	139	3.547	3.544	-0.003
10	632	3.528	3.527	-0.001
10	465	3.543	3.536	-0.007
10	500	3.540	3.543	0.003
15	209	3.543	3.539	-0.004
15	720	3.536	3.532	-0.004
15	327	3.539	3.536	-0.003
15	700	3.536	3.534	-0.002
15	851	3.538	3.534	-0.004
30	571	3.557	3.557	0.000
30	172	3.538	3.529	-0.009
30	375	3.540	3.542	0.002
30	445	3.537	3.541	0.004
30	103	3.548	3.546	-0.002
35	119	3.538	3.534	-0.004
35	90	3.549	3.542	-0.007
35	297	3.556	3.547	-0.009
35	594	3.529	3.518	-0.011
35	586	3.525	3.513	-0.012
50	152	3.554	3.543	-0.011
50	359	3.532	3.532	0.000
50	126	3.559	3.549	-0.010
50	883	3.534	3.533	-0.001
50	117	3.550	3.542	-0.008
55	301	3.544	3.531	-0.013
55	593	3.559	3.543	-0.016
55	374	3.538	3.524	-0.014
55	650	3.541	3.532	-0.009
55	324	3.547	3.533	-0.014
100	562	3.548	3.541	-0.007
100	753	3.539	3.536	-0.003
100	547	3.532	3.524	-0.008
100	724	3.561	3.548	-0.013
100	534	3.530	3.514	-0.016
105	265	3.540	3.518	-0.022
105	482	3.518	3.491	-0.027
105	372	3.575	3.550	-0.025
105	308	3.548	3.528	-0.020
105	438	3.545	3.530	-0.015
	Max	3.575	3.567	0.004
	Average	3.543	3.537	-0.006
	Min	3.518	3.491	-0.027
	Std Dev	0.011	0.013	0.007



	6.46_UVLO_VLDO_RISE_2MHz										
Test Site											
Tester											
Test Number											
Max Limit	3.66	V									
Min Limit	3.44	V									
krad	0	3	8	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	3.546	3.531	3.518	3.527	3.532	3.529	3.513	3.532	3.524	3.514	3.491
Average	3.548	3.545	3.540	3.538	3.535	3.543	3.531	3.540	3.533	3.533	3.523
Max	3.551	3.567	3.546	3.544	3.539	3.557	3.547	3.549	3.543	3.548	3.550
UL	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660	3.660

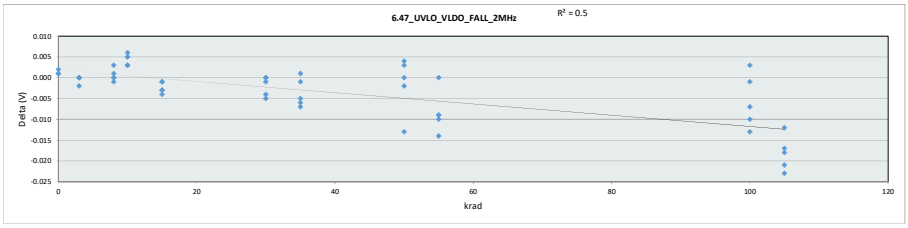


HDR TID Report
TPS7H5003-SP QMLP

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

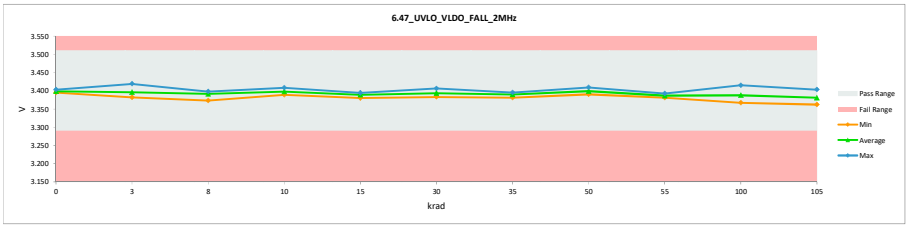
6.47_UVLO_VLDO_FALL_2MHz		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.396	3.397	0.001
0	236	3.393	3.395	0.002
0	563	3.402	3.403	0.001
3	717	3.394	3.394	0.000
3	685	3.397	3.397	0.000
3	360	3.388	3.388	0.000
3	427	3.384	3.382	-0.002
3	785	3.419	3.419	0.000
8	770	3.399	3.398	-0.001
8	331	3.395	3.395	0.000
8	279	3.373	3.373	0.000
8	694	3.389	3.392	0.003
8	337	3.396	3.397	0.001
10	498	3.398	3.403	0.005
10	139	3.394	3.397	0.003
10	632	3.384	3.389	0.005
10	465	3.402	3.408	0.006
10	500	3.388	3.391	0.003
15	209	3.392	3.391	-0.001
15	720	3.383	3.380	-0.003
15	327	3.394	3.390	-0.004
15	700	3.395	3.394	-0.001
15	851	3.394	3.391	-0.003
30	571	3.410	3.406	-0.004
30	172	3.388	3.383	-0.005
30	375	3.393	3.393	0.000
30	445	3.390	3.389	-0.001
30	103	3.396	3.396	0.000
35	119	3.396	3.391	-0.005
35	90	3.399	3.393	-0.006
35	297	3.402	3.395	-0.007
35	594	3.389	3.388	-0.001
35	586	3.380	3.381	0.001
50	152	3.405	3.409	0.004
50	359	3.390	3.390	0.000
50	126	3.411	3.398	-0.013
50	883	3.399	3.397	-0.002
50	117	3.398	3.401	0.003
55	301	3.390	3.381	-0.009
55	593	3.406	3.392	-0.014
55	374	3.384	3.384	0.000
55	650	3.398	3.388	-0.010
55	324	3.397	3.388	-0.009
100	562	3.396	3.389	-0.007
100	753	3.398	3.385	-0.013
100	547	3.383	3.382	-0.001
100	724	3.412	3.415	0.003
100	534	3.377	3.367	-0.010
105	265	3.390	3.367	-0.023
105	482	3.379	3.362	-0.017
105	372	3.424	3.403	-0.021
105	308	3.398	3.386	-0.012
105	438	3.403	3.385	-0.018
	Max	3.424	3.419	0.006
	Average	3.395	3.391	-0.003
	Min	3.373	3.362	-0.023
	Std Dev	0.010	0.011	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	8	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	3.395	3.382	3.373	3.389	3.380	3.383	3.381	3.390	3.381	3.367	3.362
Average	3.398	3.396	3.391	3.398	3.389	3.393	3.390	3.399	3.387	3.388	3.381
Max	3.403	3.419	3.398	3.408	3.394	3.406	3.395	3.409	3.392	3.415	3.403
UL	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510	3.510

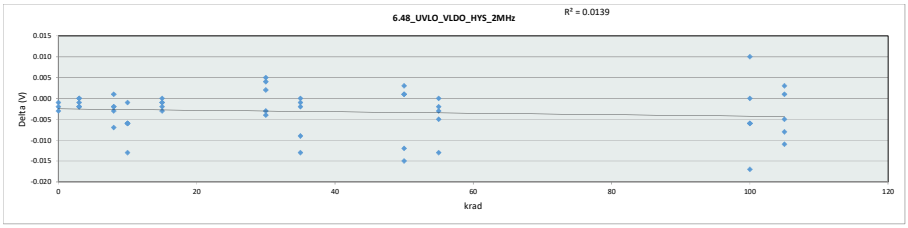


HDR TID Report
TPS7H5003-SP QMLP

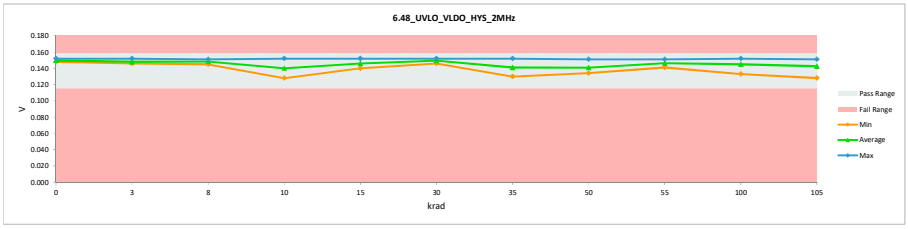
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.150	0.149	-0.001
0	236	0.154	0.152	-0.002
0	563	0.151	0.148	-0.003
3	717	0.148	0.147	-0.001
3	685	0.152	0.152	0.000
3	360	0.148	0.146	-0.002
3	427	0.148	0.148	0.000
3	785	0.150	0.148	-0.002
8	770	0.147	0.148	0.001
8	331	0.153	0.150	-0.003
8	279	0.152	0.145	-0.007
8	694	0.153	0.151	-0.002
8	337	0.150	0.148	-0.002
10	498	0.141	0.135	-0.006
10	139	0.153	0.147	-0.006
10	632	0.144	0.138	-0.006
10	465	0.141	0.128	-0.013
10	500	0.153	0.152	-0.001
15	209	0.151	0.148	-0.003
15	720	0.153	0.152	-0.001
15	327	0.146	0.146	0.000
15	700	0.141	0.140	-0.001
15	851	0.145	0.143	-0.002
30	571	0.147	0.151	0.004
30	172	0.150	0.146	-0.004
30	375	0.147	0.149	0.002
30	445	0.147	0.152	0.005
30	103	0.152	0.149	-0.003
35	119	0.142	0.142	0.000
35	90	0.150	0.149	-0.001
35	297	0.154	0.152	-0.002
35	594	0.139	0.130	-0.009
35	586	0.145	0.132	-0.013
50	152	0.149	0.134	-0.015
50	359	0.141	0.142	0.001
50	126	0.148	0.151	0.003
50	883	0.135	0.136	0.001
50	117	0.153	0.141	-0.012
55	301	0.153	0.150	-0.003
55	593	0.153	0.151	-0.002
55	374	0.154	0.141	-0.013
55	650	0.144	0.144	0.000
55	324	0.150	0.145	-0.005
100	562	0.152	0.152	0.000
100	753	0.141	0.151	0.010
100	547	0.148	0.142	-0.006
100	724	0.150	0.133	-0.017
100	534	0.153	0.147	-0.006
105	265	0.150	0.151	0.001
105	482	0.139	0.128	-0.011
105	372	0.152	0.147	-0.005
105	308	0.150	0.142	-0.008
105	438	0.142	0.145	0.003
	Max	0.154	0.152	0.010
	Average	0.148	0.145	-0.003
	Min	0.135	0.128	-0.017
	Std Dev	0.005	0.007	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	8	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	0.146	0.145	0.128	0.140	0.146	0.130	0.134	0.141	0.133	0.128
Average	0.150	0.148	0.148	0.140	0.146	0.149	0.141	0.141	0.146	0.145	0.143
Max	0.152	0.152	0.151	0.152	0.152	0.152	0.152	0.151	0.151	0.152	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

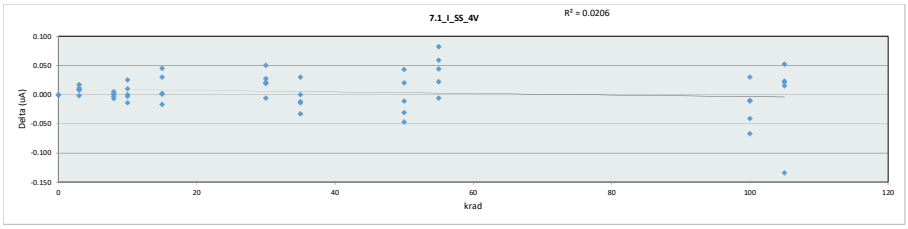


HDR TID Report
TPS7H5003-SP QMLP

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

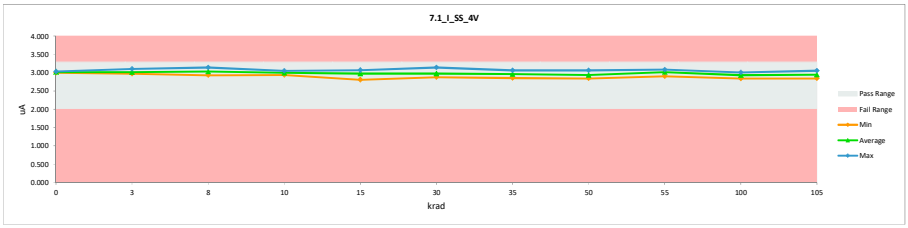
7.1_I_SS_4V		
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	3.29	3.29
Min Limit	2.01	2.01

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.017	3.016	-0.001
0	236	2.996	2.996	0.000
0	563	3.032	3.031	-0.001
3	717	2.952	2.969	0.017
3	685	2.990	2.988	-0.002
3	360	2.965	2.976	0.011
3	427	3.014	3.022	0.008
3	785	3.092	3.100	0.008
8	770	3.079	3.072	-0.007
8	331	3.066	3.063	-0.003
8	279	2.930	2.931	0.001
8	694	3.135	3.140	0.005
8	337	2.941	2.943	0.002
10	498	3.063	3.049	-0.014
10	139	2.926	2.936	0.010
10	632	3.018	3.043	0.025
10	465	2.978	2.975	-0.003
10	500	2.970	2.970	0.000
15	209	3.040	3.070	0.030
15	720	3.031	3.014	-0.017
15	327	2.976	3.021	0.045
15	700	2.805	2.806	0.001
15	851	2.967	2.969	0.002
30	571	3.091	3.141	0.050
30	172	2.955	2.982	0.027
30	375	2.914	2.933	0.019
30	445	2.855	2.876	0.021
30	103	2.949	2.943	-0.006
35	119	3.062	3.062	0.000
35	90	3.003	2.970	-0.033
35	297	2.911	2.897	-0.014
35	594	2.865	2.853	-0.012
35	586	2.977	3.007	0.030
50	152	2.942	2.962	0.020
50	359	2.872	2.841	-0.031
50	126	3.074	3.063	-0.011
50	883	2.902	2.855	-0.047
50	117	2.911	2.954	0.043
55	301	3.001	3.083	0.082
55	593	2.994	3.053	0.059
55	374	2.877	2.899	0.022
55	650	3.019	3.013	-0.006
55	324	2.969	3.013	0.044
100	562	3.070	3.003	-0.067
100	753	2.959	2.989	0.030
100	547	3.007	2.966	-0.041
100	724	2.848	2.837	-0.011
100	534	2.866	2.856	-0.010
105	265	3.001	3.053	0.052
105	482	2.924	2.947	0.023
105	372	2.873	2.888	0.015
105	308	2.976	2.842	-0.134
105	438	2.955	2.976	0.021
	Max	3.135	3.141	0.082
	Average	2.974	2.978	0.005
	Min	2.805	2.806	-0.134
	Std Dev	0.072	0.079	0.033



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

krad	0	3	8	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	2.996	2.969	2.931	2.936	2.806	2.876	2.853	2.841	2.899	2.837	2.842
Average	3.014	3.011	3.030	2.995	2.976	2.975	2.958	2.935	3.012	2.930	2.941
Max	3.031	3.100	3.140	3.049	3.070	3.141	3.062	3.063	3.083	3.003	3.053
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

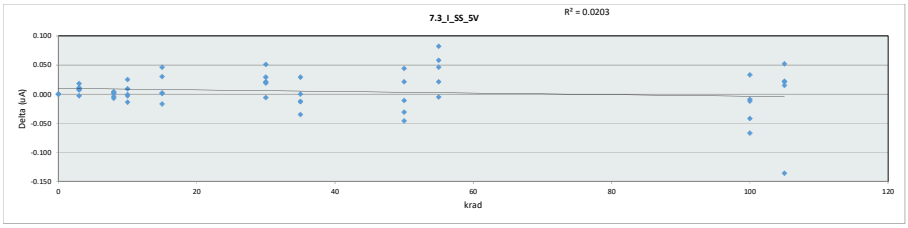


HDR TID Report
TPS7H5003-SP QMLP

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

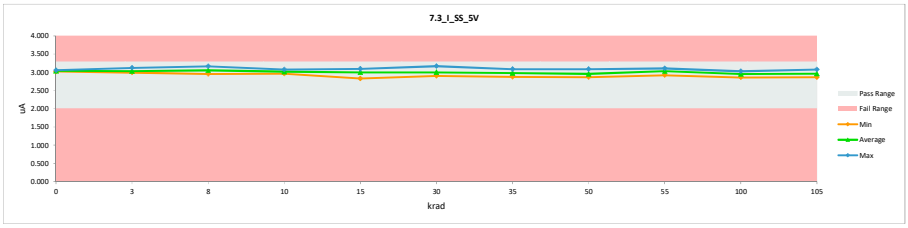
	7.3_I_SS_5V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	3.29	3.29
Min Limit	2.01	2.01

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.041	3.041	0.000
0	236	3.020	3.020	0.000
0	563	3.055	3.055	0.000
3	717	2.976	2.994	0.018
3	685	3.014	3.011	-0.003
3	360	2.991	3.002	0.011
3	427	3.038	3.046	0.008
3	785	3.116	3.123	0.007
8	770	3.102	3.095	-0.007
8	331	3.091	3.087	-0.004
8	279	2.953	2.954	0.001
8	694	3.161	3.165	0.004
8	337	2.965	2.968	0.003
10	498	3.087	3.073	-0.014
10	139	2.951	2.960	0.009
10	632	3.043	3.068	0.025
10	465	3.002	2.999	-0.003
10	500	2.993	2.992	-0.001
15	209	3.064	3.094	0.030
15	720	3.055	3.038	-0.017
15	327	2.999	3.045	0.046
15	700	2.827	2.828	0.001
15	851	2.991	2.993	0.002
30	571	3.117	3.168	0.051
30	172	2.979	3.008	0.029
30	375	2.938	2.957	0.019
30	445	2.878	2.899	0.021
30	103	2.972	2.966	-0.006
35	119	3.086	3.086	0.000
35	90	3.028	2.993	-0.035
35	297	2.934	2.921	-0.013
35	594	2.888	2.875	-0.013
35	586	2.999	3.028	0.029
50	152	2.965	2.986	0.021
50	359	2.896	2.865	-0.031
50	126	3.098	3.087	-0.011
50	883	2.924	2.878	-0.046
50	117	2.933	2.977	0.044
55	301	3.025	3.107	0.082
55	593	3.018	3.076	0.058
55	374	2.901	2.922	0.021
55	650	3.043	3.038	-0.005
55	324	2.992	3.038	0.046
100	562	3.095	3.028	-0.067
100	753	2.981	3.014	0.033
100	547	3.031	2.989	-0.042
100	724	2.871	2.859	-0.012
100	534	2.890	2.881	-0.009
105	265	3.025	3.077	0.052
105	482	2.947	2.969	0.022
105	372	2.896	2.911	0.015
105	308	3.000	2.864	-0.136
105	438	2.979	3.000	0.021
	Max	3.161	3.168	0.082
	Average	2.997	3.002	0.005
	Min	2.827	2.828	-0.136
	Std Dev	0.073	0.080	0.034



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

krad	0	3	8	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	3.020	2.994	2.954	2.960	2.828	2.899	2.875	2.865	2.922	2.859	2.864
Average	3.039	3.035	3.054	3.018	3.000	3.000	2.981	2.959	3.036	2.954	2.964
Max	3.055	3.123	3.165	3.073	3.094	3.168	3.086	3.087	3.107	3.028	3.077
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

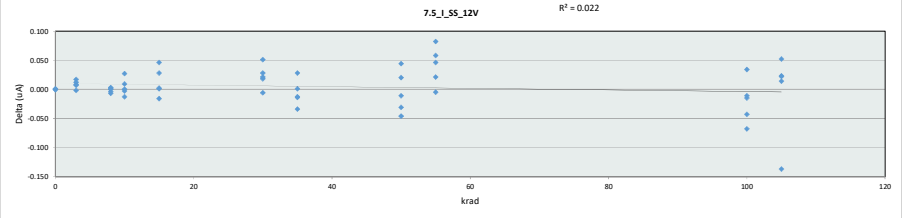


HDR TID Report
TPS7H5003-SP QMLP

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

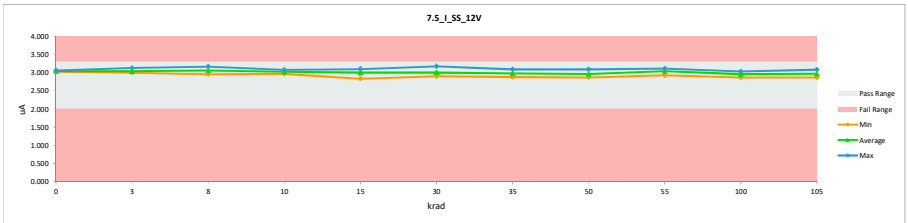
7.5_I_SS_12V		
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	3.29	3.29
Min Limit	2.01	2.01

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.041	3.042	0.001
0	236	3.020	3.019	-0.001
0	563	3.056	3.056	0.000
3	717	2.977	2.994	0.017
3	685	3.015	3.013	-0.002
3	360	2.991	3.003	0.012
3	427	3.039	3.047	0.008
3	785	3.116	3.123	0.007
8	770	3.103	3.096	-0.007
8	331	3.092	3.088	-0.004
8	279	2.954	2.954	0.000
8	694	3.162	3.165	0.003
8	337	2.966	2.968	0.002
10	498	3.087	3.074	-0.013
10	139	2.953	2.962	0.009
10	632	3.043	3.070	0.027
10	465	3.003	3.000	-0.003
10	500	2.994	2.994	0.000
15	209	3.066	3.094	0.028
15	720	3.056	3.040	-0.016
15	327	2.999	3.045	0.046
15	700	2.827	2.829	0.002
15	851	2.992	2.993	0.001
30	571	3.118	3.169	0.051
30	172	2.980	3.008	0.028
30	375	2.940	2.958	0.018
30	445	2.878	2.899	0.021
30	103	2.973	2.967	-0.006
35	119	3.086	3.087	0.001
35	90	3.028	2.994	-0.034
35	297	2.934	2.921	-0.013
35	594	2.890	2.876	-0.014
35	586	3.000	3.028	0.028
50	152	2.966	2.986	0.020
50	359	2.898	2.867	-0.031
50	126	3.099	3.088	-0.011
50	883	2.925	2.879	-0.046
50	117	2.934	2.978	0.044
55	301	3.026	3.108	0.082
55	593	3.019	3.077	0.058
55	374	2.902	2.923	0.021
55	650	3.042	3.037	-0.005
55	324	2.991	3.037	0.046
100	562	3.097	3.029	-0.068
100	753	2.982	3.016	0.034
100	547	3.032	2.989	-0.043
100	724	2.873	2.858	-0.015
100	534	2.891	2.880	-0.011
105	265	3.026	3.078	0.052
105	482	2.949	2.971	0.022
105	372	2.896	2.910	0.014
105	308	3.001	2.864	-0.137
105	438	2.979	3.002	0.023
	Max	3.162	3.169	0.082
	Average	2.998	3.003	0.005
	Min	2.827	2.829	-0.137
	Std Dev	0.073	0.080	0.034



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

krad	0	3	8	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	3.019	2.994	2.954	2.962	2.829	2.899	2.876	2.867	2.923	2.858	2.864
Average	3.039	3.036	3.054	3.020	3.000	3.000	2.981	2.960	3.036	2.954	2.965
Max	3.056	3.123	3.165	3.074	3.094	3.169	3.087	3.088	3.108	3.029	3.078
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

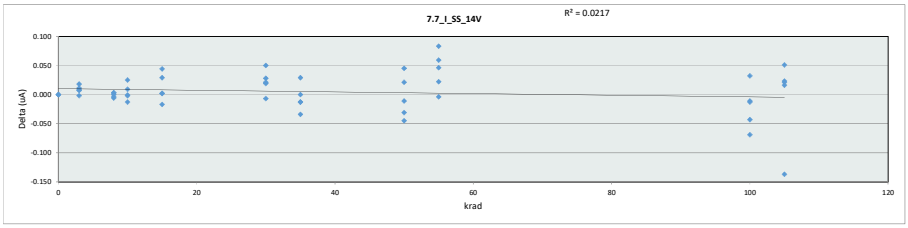


HDR TID Report
TPS7H5003-SP QMLP

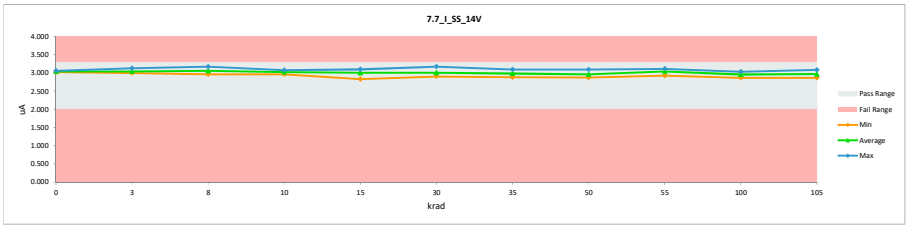
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	3.042	3.042	0.000
0	236	3.020	3.020	0.000
0	563	3.056	3.056	0.000
3	717	2.977	2.995	0.018
3	685	3.014	3.012	-0.002
3	360	2.991	3.002	0.011
3	427	3.040	3.047	0.007
3	785	3.116	3.124	0.008
8	770	3.103	3.097	-0.006
8	331	3.092	3.088	-0.004
8	279	2.954	2.954	0.000
8	694	3.162	3.165	0.003
8	337	2.965	2.968	0.003
10	498	3.086	3.073	-0.013
10	139	2.953	2.962	0.009
10	632	3.044	3.069	0.025
10	465	3.003	3.001	-0.002
10	500	2.995	2.994	-0.001
15	209	3.065	3.094	0.029
15	720	3.055	3.038	-0.017
15	327	3.000	3.044	0.044
15	700	2.827	2.829	0.002
15	851	2.991	2.993	0.002
30	571	3.119	3.169	0.050
30	172	2.980	3.008	0.028
30	375	2.940	2.959	0.019
30	445	2.879	2.900	0.021
30	103	2.974	2.967	-0.007
35	119	3.086	3.086	0.000
35	90	3.029	2.995	-0.034
35	297	2.934	2.921	-0.013
35	594	2.889	2.876	-0.013
35	586	2.999	3.028	0.029
50	152	2.966	2.987	0.021
50	359	2.897	2.866	-0.031
50	126	3.098	3.087	-0.011
50	883	2.926	2.881	-0.045
50	117	2.934	2.979	0.045
55	301	3.026	3.109	0.083
55	593	3.018	3.077	0.059
55	374	2.901	2.923	0.022
55	650	3.042	3.038	-0.004
55	324	2.991	3.037	0.046
100	562	3.097	3.028	-0.069
100	753	2.983	3.015	0.032
100	547	3.031	2.988	-0.043
100	724	2.872	2.859	-0.013
100	534	2.891	2.880	-0.011
105	265	3.026	3.077	0.051
105	482	2.949	2.972	0.023
105	372	2.896	2.912	0.016
105	308	3.000	2.863	-0.137
105	438	2.980	3.001	0.021
	Max	3.162	3.169	0.083
	Average	2.998	3.003	0.005
	Min	2.827	2.829	-0.137
	Std Dev	0.073	0.080	0.034



7.7_I_SS_14V											
Test Site											
Tester											
Test Number											
Max Limit	3.29	uA									
Min Limit	2.01	uA									
krad	0	3	8	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	3.020	2.995	2.954	2.962	2.829	2.900	2.876	2.866	2.923	2.859	2.863
Average	3.039	3.036	3.054	3.020	3.000	3.001	2.981	2.960	3.037	2.954	2.965
Max	3.056	3.124	3.165	3.073	3.094	3.169	3.086	3.087	3.109	3.028	3.077
UL	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290	3.290

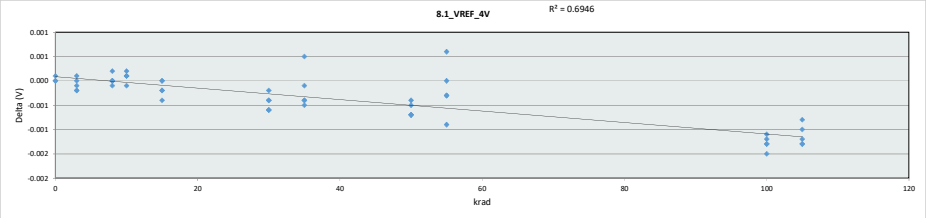


HDR TID Report
TPS7H5003-SP QMLP

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

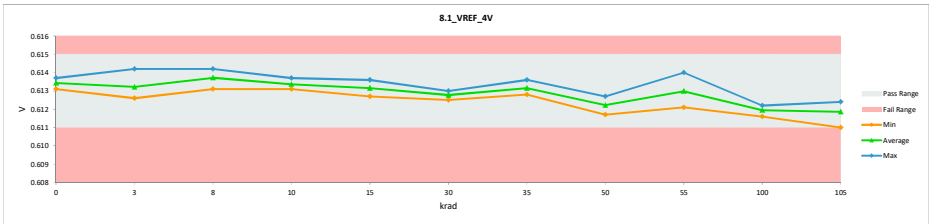
	8.1_VREF_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.615	0.615
Min Limit	0.611	0.611

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.614	0.614	0.000
0	236	0.613	0.613	0.000
0	563	0.613	0.613	0.000
3	717	0.614	0.614	0.000
3	685	0.613	0.613	0.000
3	360	0.613	0.613	0.000
3	427	0.613	0.613	0.000
3	785	0.613	0.613	0.000
8	770	0.613	0.613	0.000
8	331	0.614	0.614	0.000
8	279	0.614	0.614	0.000
8	694	0.614	0.614	0.000
8	337	0.614	0.614	0.000
10	498	0.613	0.613	0.000
10	139	0.613	0.613	0.000
10	632	0.613	0.613	0.000
10	465	0.613	0.613	0.000
10	500	0.614	0.614	0.000
15	209	0.614	0.614	0.000
15	720	0.613	0.613	0.000
15	327	0.613	0.613	0.000
15	700	0.613	0.613	0.000
15	851	0.613	0.613	0.000
30	571	0.613	0.613	0.000
30	172	0.613	0.613	0.000
30	375	0.613	0.613	0.000
30	445	0.613	0.613	-0.001
30	103	0.613	0.613	-0.001
35	119	0.613	0.613	0.000
35	90	0.613	0.613	-0.001
35	297	0.613	0.613	0.001
35	594	0.614	0.614	0.000
35	586	0.613	0.613	0.000
50	152	0.613	0.612	-0.001
50	359	0.613	0.613	-0.001
50	126	0.612	0.612	-0.001
50	883	0.613	0.612	-0.001
50	117	0.613	0.613	0.000
55	301	0.613	0.613	0.000
55	593	0.613	0.613	0.000
55	374	0.613	0.612	-0.001
55	650	0.614	0.613	0.000
55	324	0.613	0.614	0.001
100	562	0.613	0.612	-0.001
100	753	0.613	0.612	-0.001
100	547	0.613	0.612	-0.001
100	724	0.614	0.612	-0.001
100	534	0.613	0.612	-0.001
105	265	0.613	0.612	-0.001
105	482	0.613	0.612	-0.001
105	372	0.612	0.611	-0.001
105	308	0.613	0.612	-0.001
105	438	0.613	0.612	-0.001
	Max	0.614	0.614	0.001
	Average	0.613	0.613	0.000
	Min	0.612	0.611	-0.001
	Std Dev	0.000	0.001	0.001



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

krad	0	3	8	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	0.612	0.612	0.611
Average	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.612	0.613	0.612	0.612
Max	0.614	0.614	0.614	0.614	0.614	0.613	0.614	0.613	0.614	0.612	0.612
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

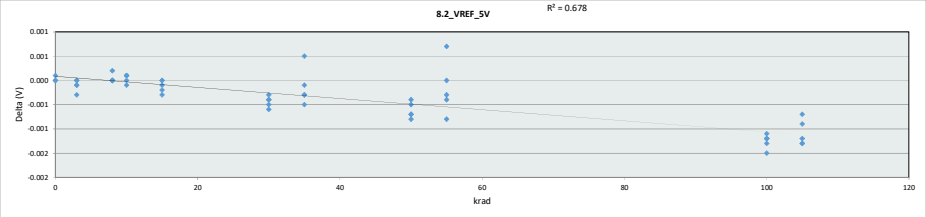


HDR TID Report
TPS7H5003-SP QMLP

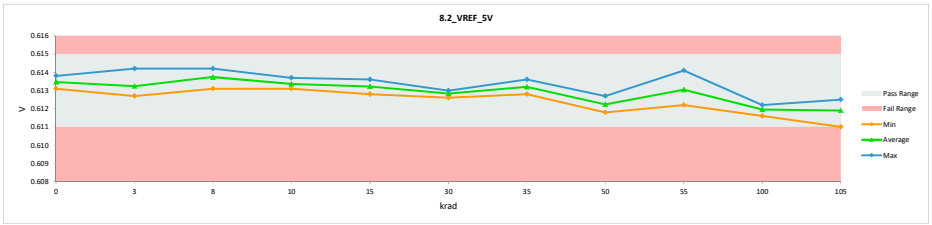
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.614	0.614	0.000
0	236	0.613	0.613	0.000
0	563	0.613	0.613	0.000
3	717	0.614	0.614	0.000
3	685	0.613	0.613	0.000
3	360	0.613	0.613	0.000
3	427	0.613	0.613	0.000
3	785	0.613	0.613	0.000
8	770	0.613	0.613	0.000
8	331	0.614	0.614	0.000
8	279	0.614	0.614	0.000
8	694	0.614	0.614	0.000
8	337	0.614	0.614	0.000
10	498	0.613	0.613	0.000
10	139	0.613	0.613	0.000
10	632	0.613	0.613	0.000
10	465	0.613	0.613	0.000
10	500	0.614	0.614	0.000
15	209	0.614	0.614	0.000
15	720	0.613	0.613	0.000
15	327	0.613	0.613	0.000
15	700	0.613	0.613	0.000
15	851	0.613	0.613	0.000
30	571	0.613	0.613	0.000
30	172	0.613	0.613	0.000
30	375	0.613	0.613	0.000
30	445	0.613	0.613	-0.001
30	103	0.613	0.613	-0.001
35	119	0.613	0.613	0.000
35	90	0.613	0.613	-0.001
35	297	0.613	0.613	0.000
35	594	0.614	0.614	0.000
35	586	0.613	0.613	0.000
50	152	0.613	0.612	-0.001
50	359	0.613	0.613	-0.001
50	126	0.613	0.612	-0.001
50	883	0.613	0.612	-0.001
50	117	0.613	0.613	0.000
55	301	0.613	0.613	0.000
55	593	0.613	0.613	0.000
55	374	0.613	0.612	-0.001
55	650	0.614	0.613	0.000
55	324	0.613	0.614	0.001
100	562	0.613	0.612	-0.001
100	753	0.613	0.612	-0.001
100	547	0.613	0.612	-0.001
100	724	0.614	0.612	-0.001
100	534	0.613	0.612	-0.001
105	265	0.613	0.613	-0.001
105	482	0.613	0.612	-0.001
105	372	0.612	0.611	-0.001
105	308	0.613	0.612	-0.001
105	438	0.613	0.612	-0.001
	Max	0.614	0.614	0.001
	Average	0.613	0.613	0.000
	Min	0.612	0.611	-0.001
	Std Dev	0.000	0.001	0.000



	8.2_VREF_5V										
Test Site											
Tester											
Test Number											
Max Limit	0.615	V									
Min Limit	0.611	V									
krad	0	3	8	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	0.612	0.612	0.611
Average	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.612	0.613	0.612	0.612
Max	0.614	0.614	0.614	0.614	0.614	0.613	0.614	0.613	0.614	0.612	0.613
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

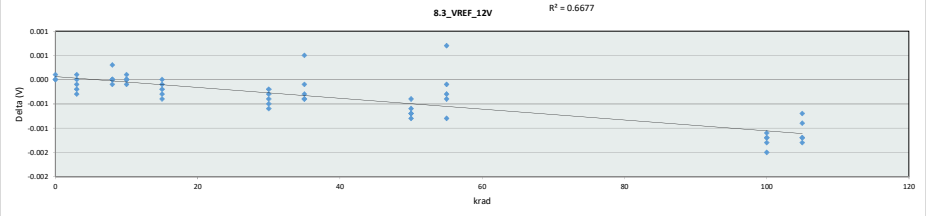


HDR TID Report
TPS7H5003-SP QMLP

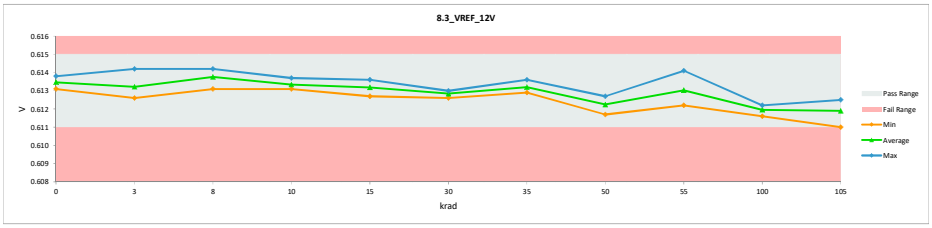
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.614	0.614	0.000
0	236	0.613	0.613	0.000
0	563	0.613	0.613	0.000
3	717	0.614	0.614	0.000
3	685	0.613	0.613	0.000
3	360	0.613	0.613	0.000
3	427	0.613	0.613	0.000
3	785	0.613	0.613	0.000
8	770	0.613	0.613	0.000
8	331	0.614	0.614	0.000
8	279	0.614	0.614	0.000
8	694	0.614	0.614	0.000
8	337	0.614	0.614	0.000
10	498	0.613	0.613	0.000
10	139	0.613	0.613	0.000
10	632	0.613	0.613	0.000
10	465	0.613	0.613	0.000
10	500	0.614	0.614	0.000
15	209	0.614	0.614	0.000
15	720	0.613	0.613	0.000
15	327	0.613	0.613	0.000
15	700	0.613	0.613	0.000
15	851	0.613	0.613	0.000
30	571	0.613	0.613	0.000
30	172	0.613	0.613	0.000
30	375	0.613	0.613	0.000
30	445	0.613	0.613	-0.001
30	103	0.613	0.613	-0.001
35	119	0.613	0.613	0.000
35	90	0.613	0.613	0.000
35	297	0.613	0.613	0.000
35	594	0.614	0.614	0.000
35	586	0.613	0.613	0.000
50	152	0.613	0.612	-0.001
50	359	0.613	0.613	-0.001
50	126	0.612	0.612	-0.001
50	883	0.613	0.612	-0.001
50	117	0.613	0.613	0.000
55	301	0.613	0.613	0.000
55	593	0.613	0.613	0.000
55	374	0.613	0.612	-0.001
55	650	0.614	0.613	0.000
55	324	0.613	0.614	0.001
100	562	0.613	0.612	-0.001
100	753	0.613	0.612	-0.001
100	547	0.613	0.612	-0.001
100	724	0.614	0.612	-0.001
100	534	0.613	0.612	-0.001
105	265	0.613	0.613	-0.001
105	482	0.613	0.612	-0.001
105	372	0.612	0.611	-0.001
105	308	0.613	0.612	-0.001
105	438	0.613	0.612	-0.001
	Max	0.614	0.614	0.001
	Average	0.613	0.613	0.000
	Min	0.612	0.611	-0.001
	Std Dev	0.000	0.001	0.000



	8.3_VREF_12V										
Test Site											
Tester											
Test Number											
Max Limit	0.615	V									
Min Limit	0.611	V									
krad	0	3	8	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	0.612	0.612	0.611
Average	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.612	0.613	0.612	0.612
Max	0.614	0.614	0.614	0.614	0.614	0.613	0.614	0.613	0.614	0.612	0.613
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

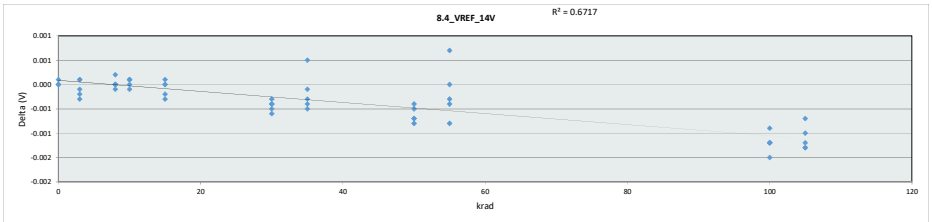


HDR TID Report
TPS7H5003-SP QMLP

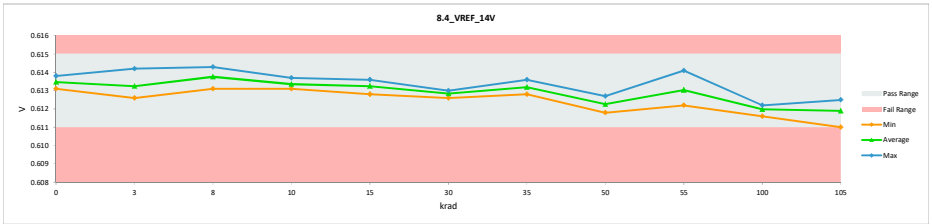
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.614	0.614	0.000
0	236	0.613	0.613	0.000
0	563	0.613	0.613	0.000
3	717	0.614	0.614	0.000
3	685	0.613	0.613	0.000
3	360	0.613	0.613	0.000
3	427	0.613	0.613	0.000
3	785	0.613	0.613	0.000
8	770	0.613	0.613	0.000
8	331	0.614	0.614	0.000
8	279	0.614	0.614	0.000
8	694	0.614	0.614	0.000
8	337	0.614	0.614	0.000
10	498	0.613	0.613	0.000
10	139	0.613	0.613	0.000
10	632	0.613	0.613	0.000
10	465	0.613	0.613	0.000
10	500	0.614	0.614	0.000
15	209	0.614	0.614	0.000
15	720	0.613	0.613	0.000
15	327	0.613	0.613	0.000
15	700	0.613	0.613	0.000
15	851	0.613	0.613	0.000
30	571	0.613	0.613	0.000
30	172	0.613	0.613	0.000
30	375	0.613	0.613	0.000
30	445	0.613	0.613	-0.001
30	103	0.613	0.613	-0.001
35	119	0.613	0.613	0.000
35	90	0.613	0.613	-0.001
35	297	0.613	0.613	0.000
35	594	0.614	0.614	0.000
35	586	0.613	0.613	0.000
50	152	0.613	0.612	-0.001
50	359	0.613	0.613	-0.001
50	126	0.613	0.612	-0.001
50	883	0.613	0.612	-0.001
50	117	0.613	0.613	0.000
55	301	0.613	0.613	0.000
55	593	0.613	0.613	0.000
55	374	0.613	0.612	-0.001
55	650	0.614	0.613	0.000
55	324	0.613	0.614	0.001
100	562	0.613	0.612	-0.001
100	753	0.613	0.612	-0.001
100	547	0.613	0.612	-0.001
100	724	0.614	0.612	-0.001
100	534	0.613	0.612	-0.001
105	265	0.613	0.613	-0.001
105	482	0.614	0.612	-0.001
105	372	0.612	0.611	-0.001
105	308	0.613	0.612	-0.001
105	438	0.613	0.612	-0.001
	Max	0.614	0.614	0.001
	Average	0.613	0.613	0.000
	Min	0.612	0.611	-0.001
	Std Dev	0.000	0.001	0.000



	8.4_VREF_14V										
Test Site											
Tester											
Test Number											
Max Limit	0.615	V									
Min Limit	0.611	V									
krad	0	3	8	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	0.612	0.612	0.611
Average	0.613	0.613	0.614	0.613	0.613	0.613	0.613	0.612	0.613	0.612	0.612
Max	0.614	0.614	0.614	0.614	0.614	0.613	0.614	0.613	0.614	0.612	0.613
UL	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615	0.615

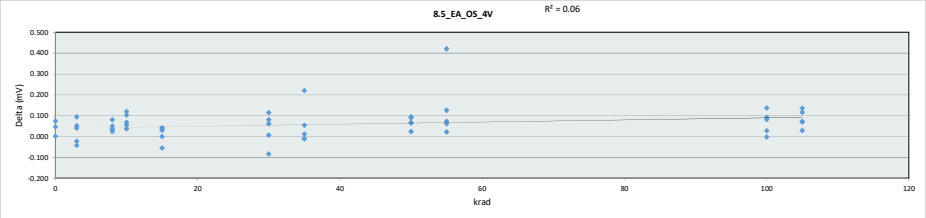


HDR TID Report
TPS7H5003-SP QMLP

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

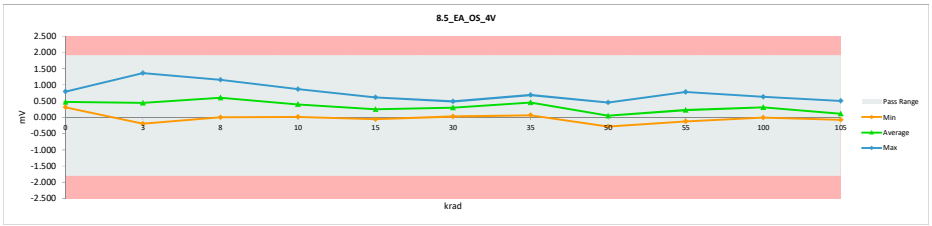
	8.5_EA_OS_4V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	1.9	1.9
Min Limit	-1.8	-1.8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.747	0.794	0.047
0	236	0.242	0.316	0.074
0	563	0.311	0.312	0.001
3	717	1.323	1.362	0.039
3	685	0.112	0.089	-0.023
3	360	0.182	0.275	0.094
3	427	0.650	0.701	0.051
3	785	-0.154	-0.198	-0.043
8	770	-0.037	-0.004	0.033
8	331	0.671	0.720	0.049
8	279	0.526	0.561	0.035
8	694	0.570	0.593	0.023
8	337	1.074	1.153	0.080
10	498	-0.024	0.012	0.037
10	139	-0.001	0.053	0.054
10	632	0.419	0.486	0.067
10	465	0.441	0.560	0.119
10	500	0.763	0.865	0.102
15	209	0.586	0.614	0.029
15	720	0.070	0.014	-0.056
15	327	0.423	0.460	0.037
15	700	-0.058	-0.059	-0.001
15	851	0.176	0.218	0.042
30	571	0.369	0.449	0.080
30	172	0.377	0.491	0.114
30	375	0.387	0.448	0.060
30	445	0.112	0.028	-0.084
30	103	0.076	0.082	0.006
35	119	0.678	0.689	0.011
35	90	0.484	0.473	-0.011
35	297	-0.156	0.064	0.219
35	594	0.564	0.617	0.053
35	586	0.460	0.449	-0.010
50	152	-0.155	-0.132	0.023
50	359	0.368	0.457	0.089
50	126	-0.379	-0.284	0.094
50	883	-0.026	0.040	0.066
50	117	0.097	0.163	0.066
55	301	-0.198	-0.126	0.073
55	593	0.293	0.418	0.126
55	374	-0.047	-0.026	0.021
55	650	0.011	0.072	0.061
55	324	0.359	0.779	0.420
100	562	0.230	0.322	0.092
100	753	0.378	0.375	-0.003
100	547	-0.090	-0.010	0.081
100	724	0.492	0.628	0.136
100	534	0.175	0.201	0.027
105	265	0.163	0.192	0.028
105	482	0.368	0.503	0.136
105	372	-0.194	-0.078	0.116
105	308	-0.120	-0.049	0.071
105	438	-0.091	-0.020	0.071
	Max	1.323	1.362	0.420
	Average	0.264	0.323	0.059
	Min	-0.379	-0.284	-0.084
	Std Dev	0.338	0.348	0.073



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

krad	0	3	8	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	0.312	-0.198	-0.004	0.012	-0.059	0.028	0.064	-0.284	-0.126	-0.010	-0.078
Average	0.474	0.446	0.605	0.395	0.250	0.300	0.459	0.049	0.223	0.303	0.110
Max	0.794	1.363	1.153	0.865	0.614	0.492	0.689	0.457	0.779	0.628	0.503
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

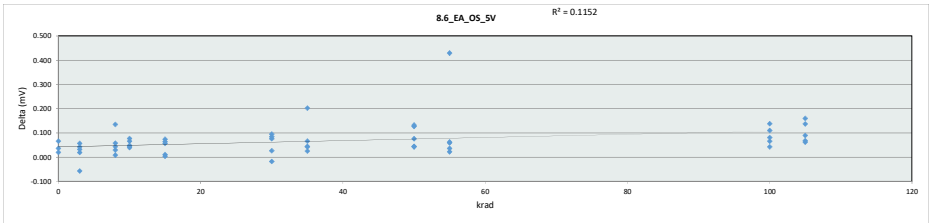


HDR TID Report
TPS7H5003-SP QMLP

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

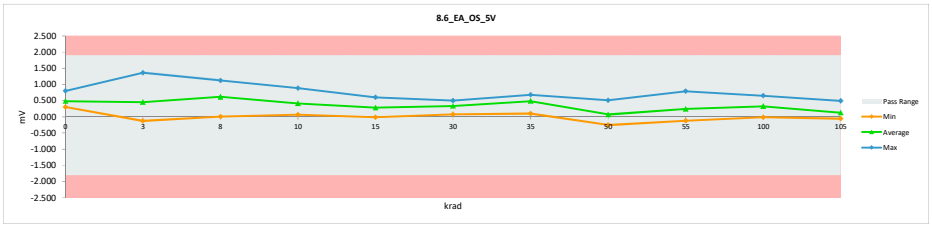
	8.6_EA_OS_5V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	1.9	1.9
Min Limit	-1.8	-1.8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.739	0.805	0.066
0	236	0.269	0.305	0.036
0	563	0.335	0.354	0.019
3	717	1.329	1.360	0.031
3	685	0.121	0.063	-0.057
3	360	0.220	0.239	0.019
3	427	0.684	0.741	0.056
3	785	-0.167	-0.125	0.042
8	770	-0.037	0.007	0.043
8	331	0.715	0.723	0.008
8	279	0.535	0.565	0.029
8	694	0.535	0.669	0.135
8	337	1.067	1.125	0.058
10	498	0.025	0.064	0.039
10	139	0.010	0.075	0.066
10	632	0.395	0.472	0.077
10	465	0.516	0.561	0.045
10	500	0.840	0.887	0.048
15	209	0.540	0.603	0.063
15	720	0.096	0.106	0.010
15	327	0.429	0.503	0.074
15	700	-0.068	-0.012	0.057
15	851	0.216	0.220	0.003
30	571	0.410	0.486	0.076
30	172	0.418	0.502	0.084
30	375	0.373	0.468	0.095
30	445	0.099	0.081	-0.018
30	103	0.122	0.148	0.026
35	119	0.661	0.686	0.025
35	90	0.486	0.528	0.042
35	297	-0.101	0.101	0.202
35	594	0.558	0.623	0.066
35	586	0.449	0.493	0.044
50	152	-0.109	-0.064	0.044
50	359	0.386	0.513	0.126
50	126	-0.385	-0.253	0.132
50	883	-0.082	-0.040	0.042
50	117	0.136	0.211	0.075
55	301	-0.143	-0.121	0.022
55	593	0.368	0.431	0.062
55	374	0.004	0.039	0.035
55	650	0.016	0.076	0.059
55	324	0.366	0.795	0.429
100	562	0.218	0.327	0.110
100	753	0.374	0.417	0.042
100	547	-0.091	-0.010	0.080
100	724	0.518	0.656	0.138
100	534	0.174	0.240	0.066
105	265	0.196	0.258	0.062
105	482	0.404	0.493	0.090
105	372	-0.193	-0.056	0.137
105	308	-0.123	-0.055	0.068
105	438	-0.141	0.018	0.160
	Max	1.329	1.360	0.429
	Average	0.278	0.345	0.068
	Min	-0.385	-0.253	-0.057
	Std Dev	0.338	0.340	0.068



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

krad	0	3	8	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	0.305	-0.125	0.007	0.064	-0.012	0.081	0.101	-0.253	-0.121	-0.010	-0.056
Average	0.488	0.456	0.618	0.412	0.284	0.337	0.486	0.073	0.244	0.326	0.132
Max	0.805	1.360	1.125	0.888	0.603	0.502	0.686	0.513	0.795	0.656	0.493
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

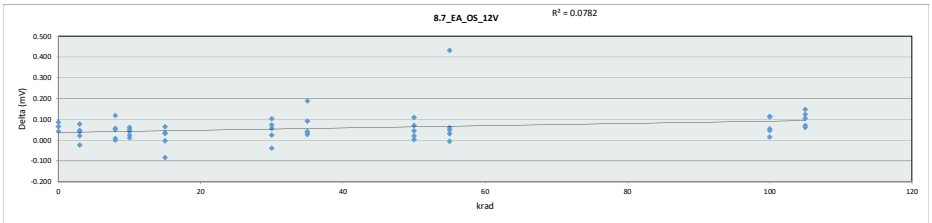


HDR TID Report
TPS7H5003-SP QMLP

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

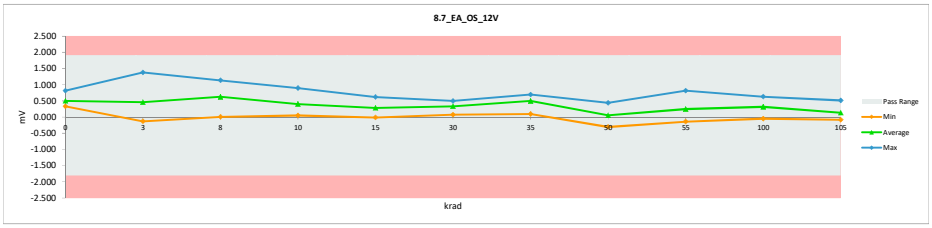
	8.7_EA_OS_12V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	1.9	1.9
Min Limit	-1.8	-1.8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.750	0.815	0.064
0	236	0.247	0.333	0.085
0	563	0.317	0.358	0.041
3	717	1.333	1.380	0.046
3	685	0.124	0.100	-0.024
3	360	0.192	0.269	0.077
3	427	0.635	0.675	0.041
3	785	-0.149	-0.129	0.020
8	770	-0.048	0.008	0.056
8	331	0.720	0.719	-0.001
8	279	0.526	0.577	0.051
8	694	0.567	0.684	0.118
8	337	1.129	1.136	0.007
10	498	0.029	0.051	0.023
10	139	0.011	0.062	0.051
10	632	0.453	0.494	0.041
10	465	0.517	0.527	0.010
10	500	0.836	0.897	0.061
15	209	0.627	0.623	-0.004
15	720	0.122	0.038	-0.084
15	327	0.436	0.499	0.063
15	700	-0.043	-0.011	0.031
15	851	0.234	0.268	0.034
30	571	0.407	0.463	0.056
30	172	0.425	0.497	0.073
30	375	0.382	0.484	0.102
30	445	0.113	0.073	-0.040
30	103	0.130	0.154	0.024
35	119	0.669	0.695	0.027
35	90	0.456	0.546	0.091
35	297	-0.094	0.094	0.188
35	594	0.609	0.645	0.036
35	586	0.469	0.511	0.041
50	152	-0.100	-0.080	0.020
50	359	0.394	0.438	0.044
50	126	-0.415	-0.306	0.109
50	883	0.015	0.017	0.002
50	117	0.136	0.206	0.070
55	301	-0.134	-0.140	-0.007
55	593	0.382	0.431	0.049
55	374	0.024	0.055	0.031
55	650	0.025	0.085	0.060
55	324	0.385	0.816	0.431
100	562	0.222	0.335	0.113
100	753	0.384	0.430	0.046
100	547	-0.064	-0.049	0.014
100	724	0.522	0.634	0.112
100	534	0.193	0.247	0.054
105	265	0.205	0.265	0.060
105	482	0.392	0.515	0.123
105	372	-0.184	-0.037	0.147
105	308	-0.154	-0.083	0.070
105	438	-0.084	0.020	0.104
	Max	1.333	1.380	0.431
	Average	0.288	0.346	0.058
	Min	-0.415	-0.306	-0.084
	Std Dev	0.340	0.345	0.070



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

krad	0	3	8	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	0.333	-0.129	0.008	0.051	-0.011	0.073	0.094	-0.306	-0.140	-0.049	-0.083
Average	0.502	0.459	0.625	0.406	0.283	0.334	0.498	0.055	0.249	0.319	0.136
Max	0.815	1.380	1.136	0.897	0.623	0.497	0.695	0.438	0.816	0.634	0.515
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

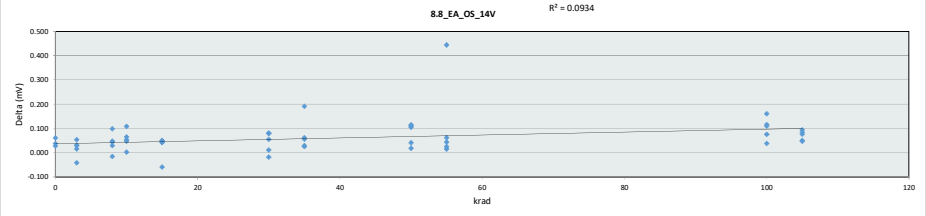


HDR TID Report
TPS7H5003-SP QMLP

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

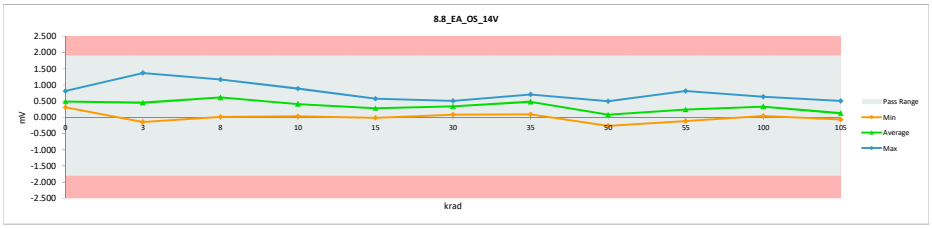
	8.8_EA_OS_14V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	1.9	1.9
Min Limit	-1.8	-1.8

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.753	0.814	0.061
0	236	0.270	0.307	0.037
0	563	0.331	0.358	0.027
3	717	1.344	1.372	0.029
3	685	0.116	0.074	-0.042
3	360	0.204	0.235	0.031
3	427	0.691	0.744	0.053
3	785	-0.160	-0.145	0.015
8	770	-0.033	0.014	0.047
8	331	0.723	0.706	-0.016
8	279	0.525	0.554	0.029
8	694	0.545	0.643	0.098
8	337	1.124	1.167	0.043
10	498	0.031	0.033	0.002
10	139	-0.002	0.045	0.047
10	632	0.407	0.514	0.108
10	465	0.524	0.588	0.065
10	500	0.837	0.890	0.053
15	209	0.635	0.575	-0.060
15	720	0.064	0.105	0.041
15	327	0.424	0.467	0.042
15	700	-0.064	-0.015	0.050
15	851	0.229	0.277	0.048
30	571	0.424	0.478	0.055
30	172	0.427	0.506	0.079
30	375	0.414	0.494	0.080
30	445	0.106	0.087	-0.019
30	103	0.122	0.133	0.010
35	119	0.678	0.707	0.029
35	90	0.477	0.502	0.025
35	297	-0.098	0.093	0.191
35	594	0.557	0.612	0.055
35	586	0.441	0.502	0.061
50	152	-0.101	-0.060	0.040
50	359	0.386	0.500	0.114
50	126	-0.369	-0.259	0.110
50	883	-0.009	0.009	0.018
50	117	0.136	0.241	0.105
55	301	-0.140	-0.116	0.024
55	593	0.367	0.410	0.043
55	374	0.011	0.025	0.014
55	650	0.020	0.082	0.061
55	324	0.369	0.813	0.444
100	562	0.255	0.331	0.075
100	753	0.377	0.415	0.037
100	547	-0.119	0.041	0.160
100	724	0.523	0.639	0.116
100	534	0.143	0.252	0.109
105	265	0.204	0.251	0.047
105	482	0.455	0.505	0.050
105	372	-0.142	-0.058	0.084
105	308	-0.140	-0.064	0.076
105	438	-0.079	0.015	0.093
	Max	1.344	1.372	0.444
	Average	0.287	0.347	0.060
	Min	-0.369	-0.259	-0.060
	Std Dev	0.342	0.342	0.070



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

krad	0	3	8	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	0.307	-0.145	0.014	0.033	-0.015	0.087	0.093	-0.259	-0.116	0.041	-0.065
Average	0.493	0.456	0.617	0.414	0.282	0.340	0.483	0.086	0.243	0.335	0.130
Max	0.814	1.373	1.167	0.890	0.575	0.506	0.707	0.500	0.813	0.639	0.505
UL	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900

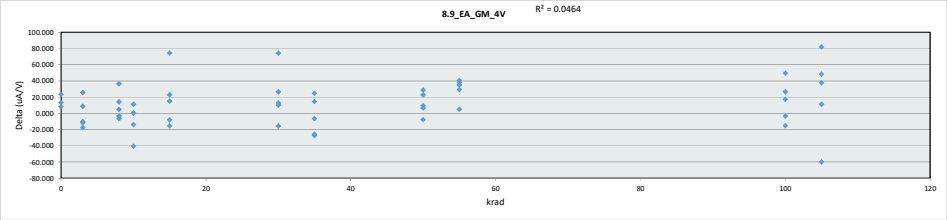


HDR TID Report
TPS7H5003-SP QMLP

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

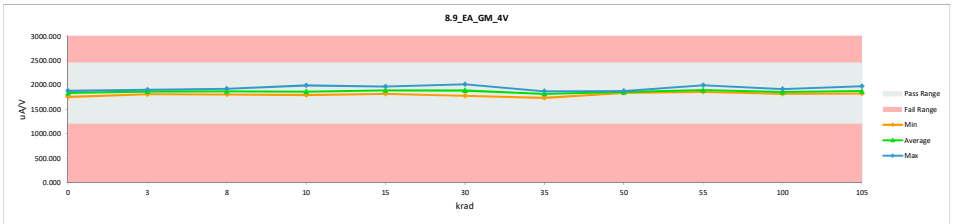
	8.9_EA_GM_4V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2450	2450
Min Limit	1200	1200

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1853.703	1877.077	23.374
0	236	1862.056	1875.094	13.038
0	563	1744.882	1752.849	7.967
3	717	1865.420	1854.697	-10.723
3	685	1817.841	1806.070	-11.771
3	360	1836.365	1861.911	25.546
3	427	1887.328	1895.923	8.595
3	785	1914.923	1897.253	-17.670
8	770	1874.329	1867.653	-6.676
8	331	1915.120	1911.628	-3.492
8	279	1790.229	1804.244	14.015
8	694	1881.687	1917.845	36.158
8	337	1823.888	1828.510	4.622
10	498	1823.452	1823.482	0.030
10	139	1889.347	1848.597	-40.750
10	632	1975.964	1986.892	10.928
10	465	1868.380	1854.420	-13.960
10	500	1791.222	1791.595	0.373
15	209	1921.503	1944.328	22.825
15	720	1830.664	1815.186	-15.478
15	327	1889.347	1963.694	74.347
15	700	1819.369	1834.207	14.838
15	851	1877.318	1869.151	-8.167
30	571	1935.524	2009.500	73.976
30	172	1842.112	1868.568	26.456
30	375	1841.596	1851.504	9.908
30	445	1789.255	1773.434	-15.821
30	103	1905.224	1917.856	12.632
35	119	1824.999	1849.565	24.566
35	90	1892.993	1865.596	-27.397
35	297	1816.561	1809.781	-6.780
35	594	1757.522	1731.708	-25.814
35	586	1811.687	1826.191	14.504
50	152	1842.112	1870.756	28.644
50	359	1842.112	1834.187	-7.925
50	126	1827.573	1834.207	6.634
50	883	1845.313	1854.697	9.384
50	117	1842.688	1865.306	22.618
55	301	1959.852	1989.130	29.278
55	593	1824.185	1859.301	35.116
55	374	1817.614	1855.774	38.160
55	650	1859.548	1864.322	4.774
55	324	1844.988	1885.472	40.484
100	562	1819.369	1815.824	-3.545
100	753	1861.725	1911.215	49.490
100	547	1852.976	1837.642	-15.334
100	724	1825.803	1842.820	17.017
100	534	1825.009	1851.504	26.495
105	265	1791.720	1839.930	48.210
105	482	1808.201	1819.102	10.901
105	372	1775.526	1857.345	81.819
105	308	1926.390	1866.178	-60.212
105	438	1932.536	1970.267	37.731
	Max	1975.964	2009.500	81.819
	Average	1850.888	1862.471	11.584
	Min	1744.882	1731.708	-60.212
	Std Dev	49.418	55.910	27.266



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

krad	0	3	8	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	1752.849	1806.070	1804.244	1791.595	1815.186	1773.434	1731.708	1834.187	1855.774	1815.824	1819.102
Average	1835.007	1863.171	1865.976	1860.997	1885.313	1884.172	1816.568	1851.831	1890.800	1851.801	1870.564
Max	1877.077	1897.253	1917.845	1986.892	1963.694	2009.500	1865.596	1870.756	1989.130	1911.215	1970.267
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

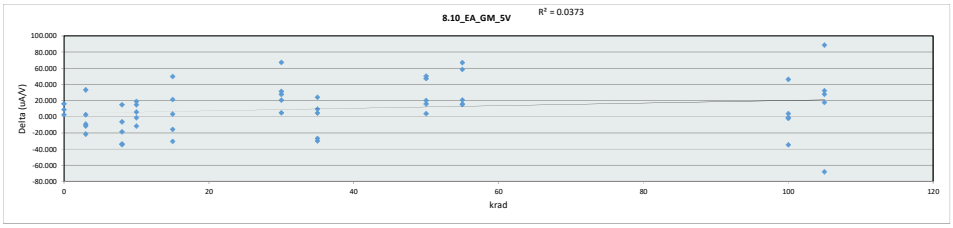


HDR TID Report
TPS7H5003-SP QMLP

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

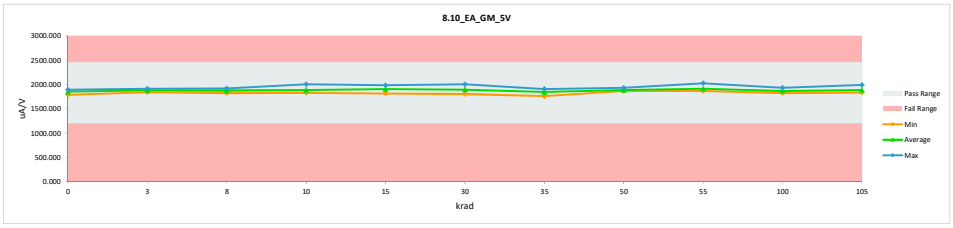
	8.10_EA_GM_5V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2450	2450
Min Limit	1200	1200

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1859.538	1875.387	15.849
0	236	1888.731	1891.158	2.427
0	563	1779.104	1787.806	8.702
3	717	1883.292	1885.769	2.477
3	685	1851.371	1839.940	-11.431
3	360	1847.884	1881.107	33.223
3	427	1910.007	1888.454	-21.553
3	785	1920.887	1911.628	-9.259
8	770	1904.619	1886.002	-18.617
8	331	1939.249	1905.430	-33.819
8	279	1808.211	1822.858	14.647
8	694	1950.839	1916.279	-34.560
8	337	1857.942	1851.504	-6.438
10	498	1843.508	1842.294	-1.214
10	139	1877.308	1883.102	5.794
10	632	1989.543	2004.207	14.664
10	465	1892.801	1881.086	-11.715
10	500	1806.527	1825.366	18.839
15	209	1944.655	1965.880	21.225
15	720	1861.498	1845.719	-15.779
15	327	1934.497	1984.190	49.693
15	700	1845.952	1815.353	-30.599
15	851	1907.683	1910.986	3.303
30	571	1935.591	2002.652	67.061
30	172	1853.703	1884.975	31.272
30	375	1842.112	1846.836	4.724
30	445	1775.526	1803.090	27.564
30	103	1901.543	1922.020	20.477
35	119	1842.112	1866.022	23.910
35	90	1934.519	1904.413	-30.106
35	297	1847.009	1851.494	4.485
35	594	1784.487	1757.559	-26.928
35	586	1836.938	1846.288	9.350
50	152	1883.314	1930.424	47.110
50	359	1858.374	1874.099	15.725
50	126	1847.884	1867.829	19.945
50	883	1876.321	1880.074	3.753
50	117	1831.814	1881.909	50.095
55	301	1964.925	2023.289	58.364
55	593	1824.999	1891.829	66.830
55	374	1842.638	1863.235	20.597
55	650	1875.524	1890.913	15.389
55	324	1876.163	1891.435	15.272
100	562	1857.592	1822.848	-34.744
100	753	1886.045	1932.024	45.979
100	547	1847.894	1845.709	-2.185
100	724	1864.249	1863.224	-1.025
100	534	1859.538	1863.214	3.676
105	265	1831.814	1859.548	27.734
105	482	1816.601	1834.207	17.606
105	372	1790.993	1879.453	88.460
105	308	1947.612	1879.453	-68.159
105	438	1957.006	1989.118	32.112
	Max	1989.543	2023.289	88.460
	Average	1871.707	1882.088	10.381
	Min	1775.526	1757.559	-68.159
	Std Dev	50.027	53.572	29.507



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

krad	0	3	8	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	1787.806	1839.940	1822.858	1825.366	1815.353	1803.090	1757.559	1867.829	1863.235	1822.848	1834.207
Average	1851.450	1881.380	1876.415	1887.211	1904.426	1891.915	1845.155	1886.867	1912.140	1865.404	1888.356
Max	1891.158	1911.628	1916.279	2004.207	1984.190	2002.652	1904.413	1930.424	2023.289	1932.024	1989.118
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

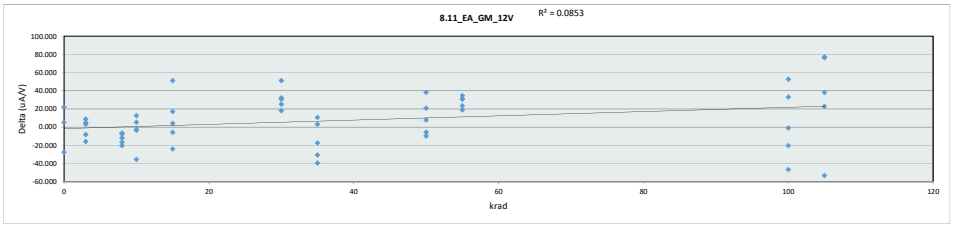


HDR TID Report
TPS7H5003-SP QMLP

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

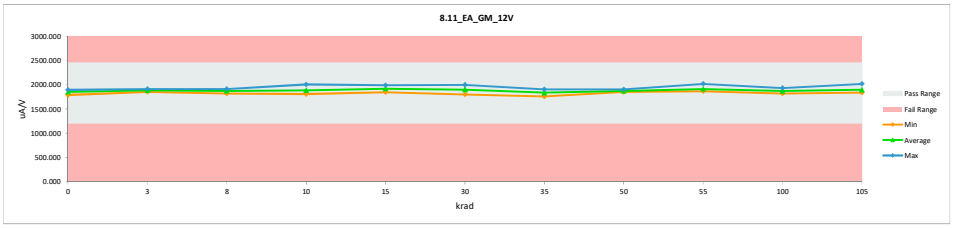
	8.11_EA_GM_12V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2450	2450
Min Limit	1200	1200

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1903.387	1875.765	-27.622
0	236	1888.135	1893.185	5.050
0	563	1766.348	1788.254	21.906
3	717	1889.337	1873.471	-15.866
3	685	1842.962	1851.514	8.552
3	360	1877.308	1882.088	4.780
3	427	1907.130	1910.257	3.127
3	785	1907.694	1899.293	-8.401
8	770	1907.694	1890.976	-16.718
8	331	1929.647	1909.116	-20.531
8	279	1825.009	1817.230	-7.779
8	694	1912.108	1905.430	-6.678
8	337	1840.545	1828.510	-12.035
10	498	1844.410	1841.869	-2.541
10	139	1890.849	1887.127	-3.722
10	632	1999.966	2005.153	5.187
10	465	1906.155	1870.641	-35.514
10	500	1794.451	1806.936	12.485
15	209	1971.482	1988.458	16.976
15	720	1862.490	1856.534	-5.956
15	327	1935.613	1986.598	50.985
15	700	1868.651	1844.562	-24.089
15	851	1907.683	1911.618	3.935
30	571	1944.891	1995.862	50.971
30	172	1859.548	1890.018	30.470
30	375	1845.303	1863.224	17.921
30	445	1776.288	1801.271	24.983
30	103	1901.532	1933.550	32.018
35	119	1836.375	1846.847	10.472
35	90	1941.190	1901.597	-39.593
35	297	1843.802	1826.380	-17.422
35	594	1788.282	1757.559	-30.723
35	586	1839.506	1842.496	2.990
50	152	1865.431	1903.387	37.956
50	359	1862.169	1869.786	7.617
50	126	1863.069	1857.345	-5.724
50	883	1848.525	1869.151	20.626
50	117	1859.548	1849.769	-9.779
55	301	1983.439	2017.911	34.472
55	593	1842.112	1865.441	23.329
55	374	1844.228	1875.094	30.866
55	650	1865.431	1884.287	18.856
55	324	1870.609	1901.144	30.535
100	562	1837.642	1817.221	-20.421
100	753	1877.192	1929.769	52.577
100	547	1910.007	1863.214	-46.793
100	724	1858.364	1857.345	-1.019
100	534	1842.112	1875.104	32.992
105	265	1819.369	1857.356	37.987
105	482	1814.077	1836.747	22.670
105	372	1813.763	1890.763	77.000
105	308	1932.703	1879.295	-53.408
105	438	1940.134	2016.371	76.237
	Max	1999.966	2017.911	77.000
	Average	1873.692	1881.130	7.438
	Min	1766.348	1757.559	-53.408
	Std Dev	50.591	55.709	28.476



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

krad	0	3	8	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	1788.254	1851.514	1817.230	1806.936	1844.562	1801.271	1757.559	1849.769	1865.441	1817.221	1836.747
Average	1852.401	1883.325	1870.252	1882.345	1917.554	1896.785	1834.976	1869.888	1908.775	1868.531	1896.106
Max	1893.185	1910.257	1909.116	2005.153	1988.458	1995.862	1901.597	1903.387	2017.911	1929.769	2016.371
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

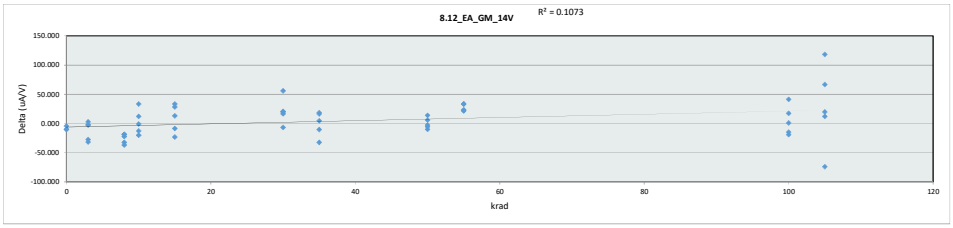


HDR TID Report
TPS7H5003-SP QMLP

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

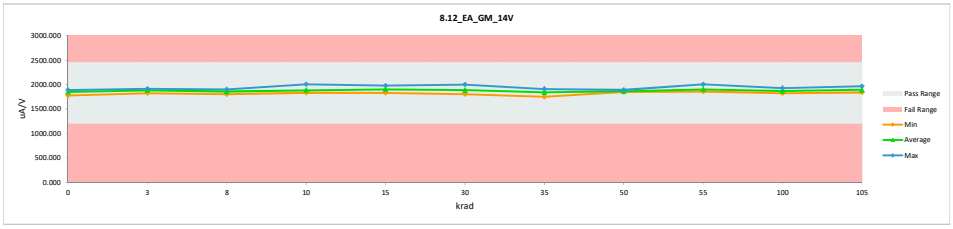
	8.12_EA_GM_14V	
Test Site		
Tester		
Test Number		
Unit	uA/V	uA/V
Max Limit	2450	2450
Min Limit	1200	1200

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1901.532	1891.083	-10.449
0	236	1885.313	1875.094	-10.219
0	563	1782.677	1778.265	-4.412
3	717	1883.303	1885.917	2.614
3	685	1851.105	1823.412	-27.693
3	360	1883.303	1881.096	-2.207
3	427	1915.951	1913.002	-2.949
3	785	1937.323	1905.441	-31.882
8	770	1903.592	1881.086	-22.506
8	331	1935.780	1903.376	-32.404
8	279	1819.369	1800.555	-18.814
8	694	1926.379	1889.135	-37.244
8	337	1843.154	1824.265	-18.889
10	498	1846.826	1845.709	-1.117
10	139	1879.474	1866.458	-13.016
10	632	1995.909	2007.769	11.860
10	465	1882.299	1861.911	-20.388
10	500	1799.001	1832.134	33.133
15	209	1949.762	1978.002	28.240
15	720	1853.703	1830.395	-23.308
15	327	1935.881	1969.168	33.287
15	700	1844.917	1836.114	-8.803
15	851	1889.347	1902.362	13.015
30	571	1946.866	2002.652	55.786
30	172	1860.394	1853.447	-6.947
30	375	1818.117	1838.498	20.381
30	445	1788.101	1804.409	16.308
30	103	1907.694	1927.275	19.581
35	119	1847.894	1866.188	18.294
35	90	1920.117	1909.572	-10.545
35	297	1823.749	1839.930	16.181
35	594	1781.437	1749.020	-32.417
35	586	1836.375	1840.818	4.443
50	152	1877.308	1890.966	13.658
50	359	1866.499	1856.380	-10.119
50	126	1852.966	1847.192	-5.774
50	883	1863.462	1869.140	5.678
50	117	1857.315	1854.420	-2.895
55	301	1971.482	2004.303	32.821
55	593	1824.999	1858.693	33.694
55	374	1847.314	1869.130	21.816
55	650	1865.431	1886.861	21.430
55	324	1869.901	1893.185	23.284
100	562	1842.112	1822.848	-19.264
100	753	1888.731	1929.802	41.071
100	547	1872.436	1857.345	-15.091
100	724	1868.380	1869.140	0.760
100	534	1844.755	1861.921	17.166
105	265	1802.684	1869.140	66.456
105	482	1820.296	1839.940	19.644
105	372	1780.369	1898.616	118.247
105	308	1965.869	1891.669	-74.200
105	438	1954.396	1966.226	11.830
	Max	1995.909	2007.769	118.247
	Average	1871.950	1876.424	4.474
	Min	1780.369	1749.020	-74.200
	Std Dev	51.710	53.616	29.813



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

krad	0	3	8	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	1778.265	1823.412	1800.555	1832.134	1830.395	1804.409	1749.020	1847.192	1858.693	1822.848	1839.940
Average	1848.147	1881.774	1859.683	1882.796	1903.208	1885.256	1841.106	1863.620	1902.434	1868.211	1893.118
Max	1891.083	1913.002	1903.376	2007.769	1978.002	2002.652	1909.572	1890.966	2004.303	1929.802	1966.226
UL	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000	2450.000

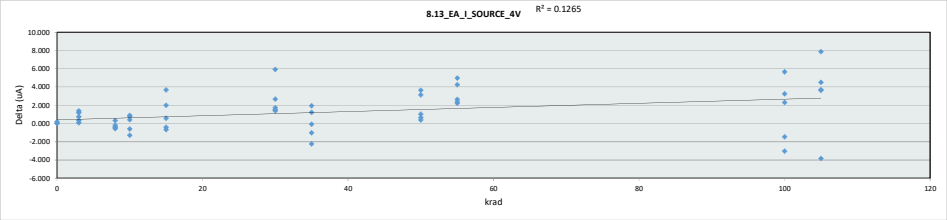


HDR TID Report
TPS7H5003-SP QMLP

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

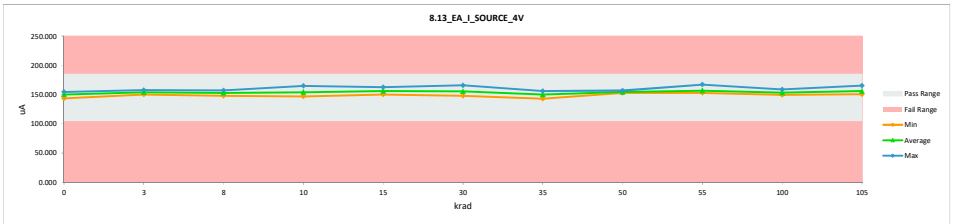
	8.13_EA_I_SOURCE_4V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	152.896	153.075	0.179
0	236	154.405	154.421	0.016
0	563	143.425	143.404	-0.021
3	717	151.511	152.883	1.372
3	685	149.482	150.207	0.725
3	360	152.934	154.091	1.157
3	427	155.323	155.655	0.332
3	785	157.563	157.615	0.052
8	770	156.151	155.575	-0.576
8	331	157.517	157.117	-0.400
8	279	147.534	147.838	0.304
8	694	156.593	156.117	-0.476
8	337	148.374	148.155	-0.219
10	498	151.017	151.413	0.396
10	139	153.869	153.254	-0.615
10	632	164.196	165.067	0.871
10	465	154.809	153.507	-1.302
10	500	146.268	147.001	0.733
15	209	158.893	160.871	1.978
15	720	150.894	150.196	-0.698
15	327	158.973	162.635	3.662
15	700	151.674	151.241	-0.433
15	851	156.158	156.728	0.570
30	571	159.890	165.805	5.915
30	172	152.279	153.760	1.481
30	375	149.717	151.080	1.363
30	445	146.014	147.736	1.722
30	103	156.898	159.556	2.658
35	119	149.735	150.936	1.201
35	90	158.150	155.900	-2.250
35	297	150.739	150.642	-0.097
35	594	143.786	142.756	-1.030
35	586	148.453	150.377	1.924
50	152	153.304	156.931	3.627
50	359	152.440	152.814	0.374
50	126	152.751	153.385	0.634
50	883	154.122	155.124	1.002
50	117	151.436	154.553	3.117
55	301	162.288	167.258	4.970
55	593	148.590	152.822	4.232
55	374	150.841	153.216	2.375
55	650	153.152	155.353	2.201
55	324	153.062	155.686	2.624
100	562	150.947	149.467	-1.480
100	753	153.065	158.718	5.653
100	547	154.823	151.783	-3.040
100	724	150.426	152.719	2.293
100	534	150.443	153.687	3.244
105	265	148.688	153.181	4.493
105	482	146.781	150.410	3.629
105	372	147.131	154.994	7.863
105	308	160.301	156.453	-3.848
105	438	161.597	165.279	3.682
	Max	164.196	167.258	7.863
	Average	152.874	154.159	1.286
	Min	143.425	142.756	-3.848
	Std Dev	4.637	5.069	2.264



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

krad	0	3	8	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	143.404	150.207	147.838	147.001	150.196	147.736	142.756	152.814	152.822	149.467	150.410
Average	150.300	154.090	152.960	154.048	156.334	155.587	150.122	154.561	156.867	153.275	156.063
Max	154.421	157.615	157.117	165.067	162.635	165.805	155.900	156.931	167.258	158.718	165.279
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

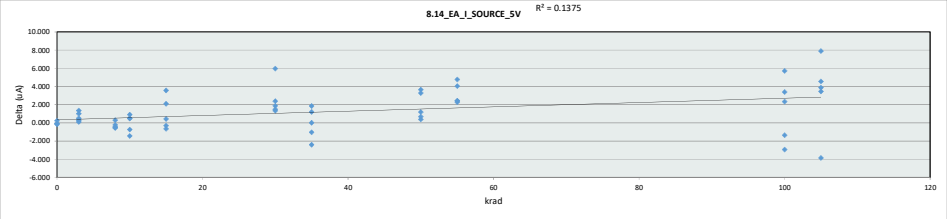


HDR TID Report
TPS7H5003-SP QMLP

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

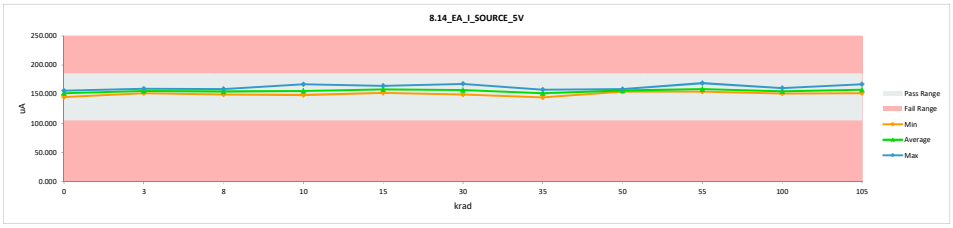
8.14_EA_I_SOURCE_5V		
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	154.635	154.863	0.228
0	236	156.134	155.951	-0.183
0	563	144.908	144.827	-0.081
3	717	153.152	154.492	1.340
3	685	151.221	151.714	0.493
3	360	154.790	155.784	0.994
3	427	157.243	157.335	0.092
3	785	159.119	159.404	0.285
8	770	157.800	157.219	-0.581
8	331	159.236	158.778	-0.458
8	279	149.176	149.453	0.277
8	694	158.251	157.751	-0.500
8	337	150.066	149.824	-0.242
10	498	152.571	153.064	0.493
10	139	155.718	154.976	-0.742
10	632	165.965	166.853	0.888
10	465	156.483	155.039	-1.444
10	500	148.056	148.525	0.469
15	209	160.528	162.623	2.095
15	720	152.618	151.948	-0.670
15	327	160.715	164.265	3.550
15	700	153.366	153.055	-0.311
15	851	157.946	158.361	0.415
30	571	161.630	167.583	5.953
30	172	153.899	155.379	1.480
30	375	151.375	152.698	1.323
30	445	147.526	149.383	1.857
30	103	158.710	161.086	2.376
35	119	151.333	152.521	1.188
35	90	160.065	157.658	-2.407
35	297	152.353	152.346	-0.007
35	594	145.420	144.369	-1.051
35	586	150.077	151.919	1.842
50	152	154.951	158.587	3.636
50	359	154.150	154.519	0.369
50	126	154.344	155.020	0.676
50	883	155.762	156.942	1.180
50	117	153.158	156.426	3.268
55	301	164.186	168.944	4.758
55	593	150.279	154.308	4.029
55	374	152.681	154.942	2.261
55	650	154.804	157.208	2.404
55	324	154.894	157.306	2.412
100	562	152.528	151.159	-1.369
100	753	154.789	160.482	5.693
100	547	156.493	153.542	-2.951
100	724	152.148	154.472	2.324
100	534	152.137	155.514	3.377
105	265	150.292	154.833	4.541
105	482	148.419	151.862	3.443
105	372	148.798	156.685	7.887
105	308	162.020	158.152	-3.868
105	438	163.252	167.117	3.865
	Max	165.965	168.944	7.887
	Average	154.569	155.831	1.262
	Min	144.908	144.369	-3.868
	Std Dev	4.679	5.113	2.267



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

krad	0	3	8	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	144.827	151.714	149.453	148.525	151.948	149.383	144.369	154.519	154.308	151.159	151.862
Average	151.880	155.746	154.605	155.691	158.050	157.226	151.763	156.299	158.542	155.034	157.730
Max	155.951	159.404	158.778	166.853	164.265	167.583	157.658	158.587	168.944	160.482	167.117
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

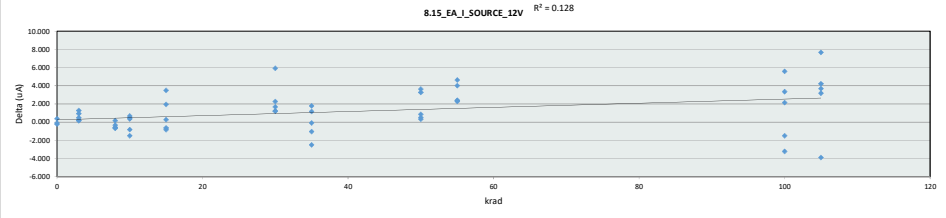


HDR TID Report
TPS7H5003-SP QMLP

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

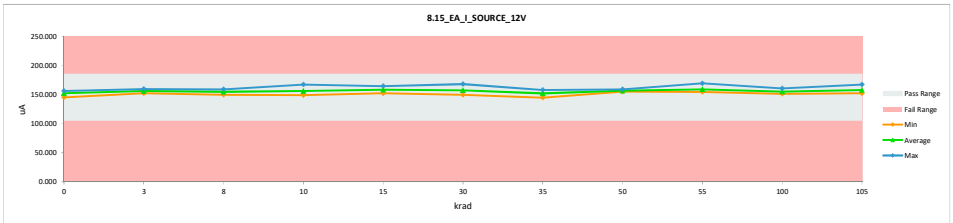
8.15_EA_I_SOURCE_12V		
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	154.497	154.855	0.358
0	236	156.131	155.897	-0.234
0	563	144.981	144.855	-0.126
3	717	153.260	154.511	1.251
3	685	151.352	151.817	0.465
3	360	154.856	155.777	0.921
3	427	157.077	157.214	0.137
3	785	159.129	159.323	0.194
8	770	157.868	157.178	-0.690
8	331	159.285	158.700	-0.585
8	279	149.240	149.390	0.150
8	694	158.268	157.636	-0.632
8	337	150.118	149.780	-0.338
10	498	152.646	152.977	0.331
10	139	155.843	155.008	-0.835
10	632	166.166	166.827	0.661
10	465	156.554	155.037	-1.517
10	500	148.158	148.592	0.434
15	209	160.585	162.519	1.934
15	720	152.704	151.852	-0.852
15	327	160.727	164.199	3.472
15	700	153.422	152.770	-0.652
15	851	158.011	158.269	0.258
30	571	161.666	167.564	5.898
30	172	153.944	155.150	1.206
30	375	151.439	152.638	1.199
30	445	147.573	149.236	1.663
30	103	158.739	160.981	2.242
35	119	151.321	152.476	1.155
35	90	160.016	157.496	-2.520
35	297	152.463	152.358	-0.105
35	594	145.529	144.471	-1.058
35	586	150.248	152.014	1.766
50	152	155.029	158.639	3.610
50	359	154.263	154.565	0.302
50	126	154.374	154.860	0.486
50	883	156.025	156.872	0.847
50	117	153.297	156.548	3.251
55	301	164.224	168.842	4.618
55	593	150.353	154.341	3.988
55	374	152.763	155.019	2.256
55	650	154.839	157.171	2.332
55	324	154.815	157.198	2.383
100	562	152.601	151.086	-1.515
100	753	154.853	160.422	5.569
100	547	156.547	153.317	-3.230
100	724	152.316	154.449	2.133
100	534	152.221	155.554	3.333
105	265	150.347	154.541	4.194
105	482	148.655	151.825	3.170
105	372	148.849	156.493	7.644
105	308	162.089	158.183	-3.906
105	438	163.335	166.999	3.664
	Max	166.166	168.842	7.644
	Average	154.634	155.779	1.145
	Min	144.981	144.471	-3.906
	Std Dev	4.665	5.094	2.258



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

krad	0	3	8	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	144.855	151.817	149.390	148.592	151.852	149.236	144.471	154.565	154.341	151.086	151.825
Average	151.869	155.728	154.537	155.688	157.922	157.114	151.763	156.297	158.514	154.966	157.608
Max	155.897	159.323	158.700	166.827	164.199	167.564	157.496	158.639	168.842	160.422	166.999
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

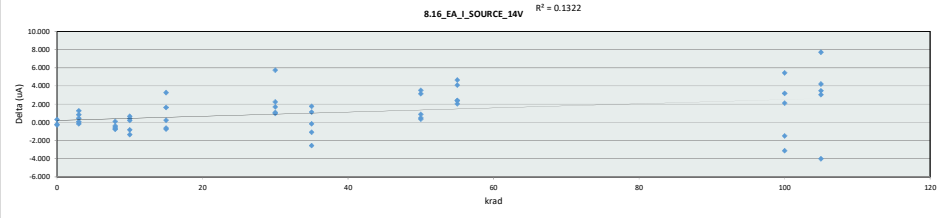


HDR TID Report
TPS7H5003-SP QMLP

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

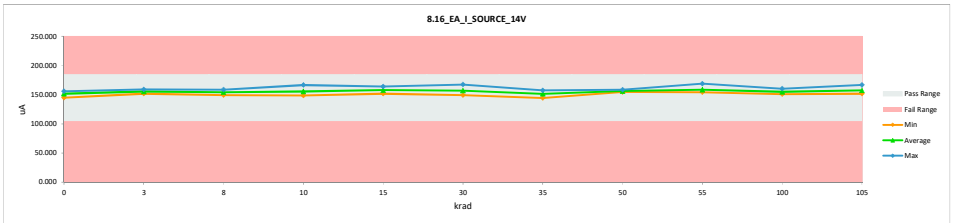
	8.16_EA_I_SOURCE_14V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	154.389	154.700	0.311
0	236	156.039	155.746	-0.293
0	563	144.920	144.696	-0.224
3	717	153.124	154.391	1.267
3	685	151.247	151.694	0.447
3	360	154.758	155.596	0.838
3	427	157.118	156.951	-0.167
3	785	159.023	159.089	0.066
8	770	157.731	156.972	-0.759
8	331	159.166	158.644	-0.522
8	279	149.238	149.332	0.094
8	694	158.149	157.453	-0.696
8	337	150.140	149.747	-0.393
10	498	152.530	152.740	0.210
10	139	155.735	154.917	-0.818
10	632	165.885	166.547	0.662
10	465	156.381	155.034	-1.347
10	500	148.049	148.464	0.415
15	209	160.394	162.036	1.642
15	720	152.537	151.793	-0.744
15	327	160.636	163.894	3.258
15	700	153.304	152.674	-0.630
15	851	157.865	158.090	0.225
30	571	161.507	167.247	5.740
30	172	153.901	154.994	1.093
30	375	151.509	152.494	0.985
30	445	147.472	149.178	1.706
30	103	158.651	160.896	2.245
35	119	151.301	152.423	1.122
35	90	159.904	157.346	-2.558
35	297	152.302	152.143	-0.159
35	594	145.462	144.373	-1.089
35	586	150.078	151.842	1.764
50	152	154.897	158.426	3.529
50	359	154.144	154.500	0.356
50	126	154.268	154.759	0.491
50	883	155.868	156.745	0.877
50	117	153.188	156.331	3.143
55	301	164.091	168.747	4.656
55	593	150.150	154.251	4.101
55	374	152.708	154.741	2.033
55	650	154.718	157.101	2.383
55	324	154.572	156.994	2.422
100	562	152.519	151.030	-1.489
100	753	154.800	160.234	5.434
100	547	156.451	153.330	-3.121
100	724	152.218	154.339	2.121
100	534	152.122	155.310	3.188
105	265	150.267	154.476	4.209
105	482	148.589	151.633	3.044
105	372	148.883	156.597	7.714
105	308	161.894	157.898	-3.996
105	438	163.170	166.641	3.471
	Max	165.885	168.747	7.714
	Average	154.528	155.627	1.099
	Min	144.920	144.373	-3.996
	Std Dev	4.635	5.045	2.241



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

krad	0	3	8	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	144.696	151.694	149.332	148.464	151.793	149.178	144.373	154.500	154.251	151.030	151.633
Average	151.714	155.544	154.430	155.540	157.697	156.962	151.625	156.152	158.367	154.849	157.449
Max	155.746	159.089	158.644	166.547	163.894	167.247	157.346	158.426	168.747	160.234	166.641
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

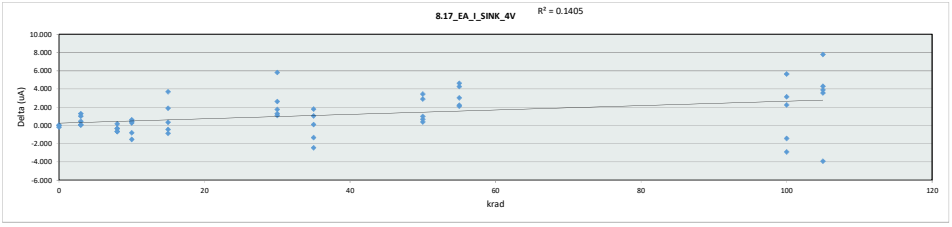


HDR TID Report
TPS7H5003-SP QMLP

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

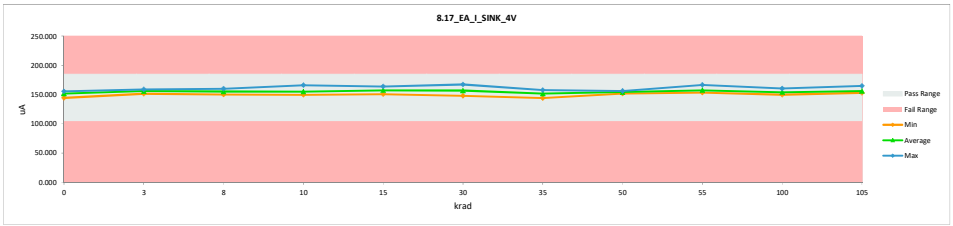
	8.17_EA_I_SINK_4V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	155.412	155.451	0.039
0	236	155.297	155.098	-0.199
0	563	144.434	144.399	-0.035
3	717	157.544	158.824	1.280
3	685	150.888	151.332	0.444
3	360	153.137	154.142	1.005
3	427	157.905	157.975	0.070
3	785	157.085	157.109	0.024
8	770	156.096	155.415	-0.681
8	331	160.713	160.031	-0.682
8	279	149.792	149.955	0.163
8	694	159.091	158.741	-0.350
8	337	152.969	152.617	-0.352
10	498	151.017	151.276	0.259
10	139	154.135	153.323	-0.812
10	632	165.388	166.002	0.614
10	465	156.782	155.244	-1.538
10	500	149.232	149.670	0.438
15	209	161.663	163.542	1.879
15	720	151.990	151.116	-0.874
15	327	160.320	163.996	3.676
15	700	151.247	150.802	-0.445
15	851	156.812	157.143	0.331
30	571	161.500	167.289	5.789
30	172	154.993	156.274	1.281
30	375	151.888	152.969	1.081
30	445	145.945	147.693	1.748
30	103	157.557	160.175	2.618
35	119	152.197	153.231	1.034
35	90	160.236	157.778	-2.458
35	297	150.886	150.968	0.082
35	594	145.288	143.947	-1.341
35	586	150.297	152.086	1.789
50	152	152.706	156.141	3.435
50	359	154.029	154.395	0.366
50	126	150.919	151.583	0.664
50	883	153.718	154.702	0.984
50	117	152.083	154.975	2.892
55	301	162.076	166.693	4.617
55	593	149.785	154.036	4.251
55	374	151.070	153.277	2.207
55	650	153.024	155.132	2.108
55	324	154.464	157.482	3.018
100	562	151.221	149.786	-1.435
100	753	154.658	160.288	5.630
100	547	154.136	151.219	-2.917
100	724	152.096	154.336	2.240
100	534	151.291	154.428	3.137
105	265	149.053	153.337	4.284
105	482	149.505	153.052	3.547
105	372	146.291	154.064	7.773
105	308	159.686	155.763	-3.923
105	438	160.827	164.709	3.882
	Max	165.388	167.289	7.773
	Average	154.007	155.189	1.182
	Min	144.434	143.947	-3.923
	Std Dev	4.630	5.016	2.273



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

krad	0	3	8	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	144.399	151.332	149.955	149.670	150.802	147.693	143.947	151.583	153.277	149.786	153.052
Average	151.649	155.876	155.352	155.103	157.320	156.880	151.602	154.359	157.324	154.011	156.185
Max	155.451	158.824	160.031	166.002	163.996	167.289	157.778	156.141	166.693	160.288	164.709
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

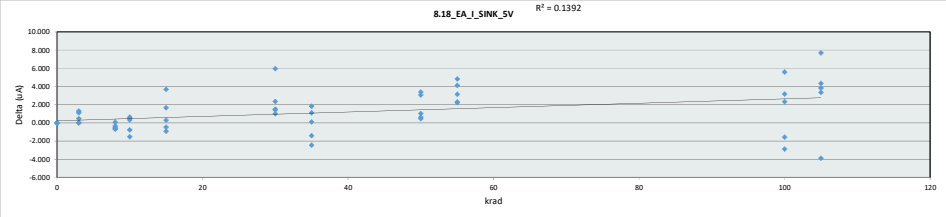


HDR TID Report
TPS7H5003-SP QMLP

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

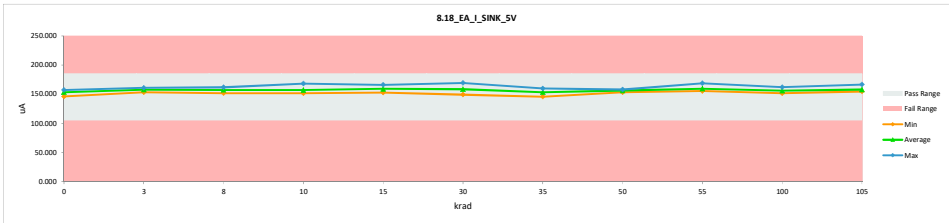
8.18_EA_I_SINK_5V		
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	157.188	157.177	-0.011
0	236	156.929	156.941	0.012
0	563	146.063	145.969	-0.094
3	717	159.370	160.647	1.277
3	685	152.756	153.209	0.453
3	360	154.968	156.056	1.088
3	427	159.836	159.841	0.005
3	785	158.821	158.809	-0.012
8	770	157.926	157.256	-0.670
8	331	162.499	161.805	-0.694
8	279	151.591	151.661	0.070
8	694	160.864	160.347	-0.517
8	337	154.833	154.481	-0.352
10	498	152.782	153.097	0.315
10	139	156.003	155.222	-0.781
10	632	167.410	168.036	0.626
10	465	158.496	156.949	-1.547
10	500	150.938	151.399	0.461
15	209	163.549	165.195	1.646
15	720	153.766	152.841	-0.925
15	327	162.244	165.926	3.682
15	700	153.041	152.550	-0.491
15	851	158.609	158.894	0.285
30	571	163.246	169.187	5.941
30	172	156.692	158.111	1.419
30	375	153.722	154.721	0.999
30	445	147.699	149.185	1.486
30	103	159.442	161.781	2.339
35	119	153.898	154.995	1.097
35	90	162.287	159.818	-2.469
35	297	152.603	152.684	0.081
35	594	147.137	145.717	-1.420
35	586	152.027	153.847	1.820
50	152	154.553	157.928	3.375
50	359	155.858	156.299	0.441
50	126	152.618	153.227	0.609
50	883	155.617	156.629	1.012
50	117	153.928	156.985	3.057
55	301	163.885	168.699	4.814
55	593	151.579	155.685	4.106
55	374	152.951	155.240	2.289
55	650	154.862	157.066	2.204
55	324	156.338	159.475	3.137
100	562	153.007	151.430	-1.577
100	753	156.442	162.019	5.577
100	547	156.013	153.115	-2.898
100	724	153.929	156.245	2.316
100	534	153.188	156.352	3.164
105	265	150.742	155.068	4.326
105	482	151.298	154.637	3.339
105	372	148.112	155.785	7.673
105	308	161.564	157.666	-3.898
105	438	162.778	166.597	3.819
	Max	167.410	169.187	7.673
	Average	155.821	156.991	1.170
	Min	146.063	145.717	-3.898
	Std Dev	4.669	5.068	2.278



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

krad	0	3	8	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	145.969	153.209	151.661	151.399	152.550	149.185	145.717	153.227	155.240	151.430	154.637
Average	153.362	157.712	157.110	156.941	159.081	158.597	153.412	156.214	159.233	155.832	157.951
Max	157.177	160.647	161.805	168.036	165.926	169.187	159.818	157.928	168.699	162.019	166.597
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

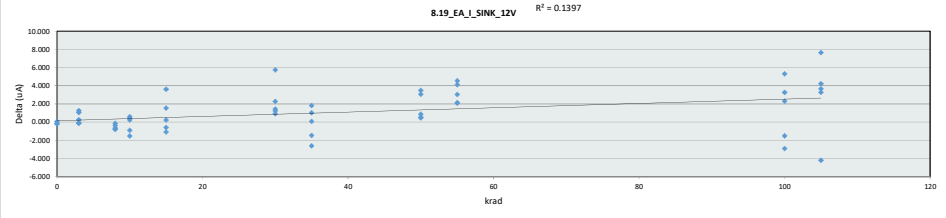


HDR TID Report
TPS7H5003-SP QMLP

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

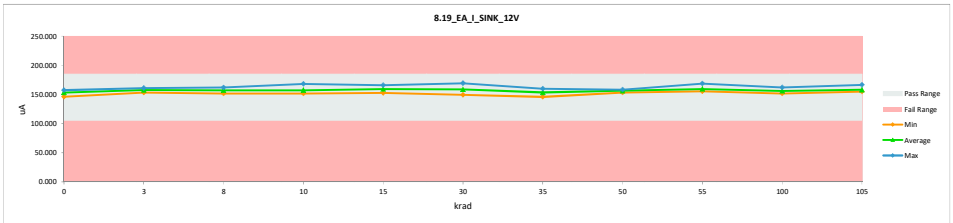
	8.19_EA_I_SINK_12V	
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	157.158	157.211	0.053
0	236	157.100	156.872	-0.228
0	563	146.097	145.939	-0.158
3	717	159.521	160.763	1.242
3	685	152.868	153.110	0.242
3	360	155.179	156.211	1.032
3	427	159.833	159.731	-0.102
3	785	158.869	158.714	-0.155
8	770	157.971	157.185	-0.786
8	331	162.599	161.797	-0.802
8	279	151.769	151.620	-0.149
8	694	160.982	160.308	-0.674
8	337	154.939	154.556	-0.383
10	498	152.868	153.093	0.225
10	139	156.191	155.270	-0.921
10	632	167.474	168.051	0.577
10	465	158.590	157.047	-1.543
10	500	151.143	151.557	0.414
15	209	163.612	165.147	1.535
15	720	153.884	152.782	-1.102
15	327	162.288	165.890	3.602
15	700	153.108	152.503	-0.605
15	851	158.692	158.905	0.213
30	571	163.462	169.189	5.727
30	172	156.793	158.008	1.215
30	375	153.840	154.745	0.905
30	445	147.732	149.153	1.421
30	103	159.520	161.777	2.257
35	119	153.899	154.906	1.007
35	90	162.283	159.666	-2.617
35	297	152.630	152.686	0.056
35	594	147.215	145.738	-1.477
35	586	152.181	153.978	1.797
50	152	154.623	158.094	3.471
50	359	155.941	156.386	0.445
50	126	152.797	153.305	0.508
50	883	155.802	156.651	0.849
50	117	154.034	157.083	3.049
55	301	164.101	168.626	4.525
55	593	151.655	155.747	4.092
55	374	153.111	155.223	2.112
55	650	154.900	156.976	2.076
55	324	156.299	159.328	3.029
100	562	153.076	151.549	-1.527
100	753	156.579	161.868	5.289
100	547	156.063	153.142	-2.921
100	724	154.088	156.378	2.290
100	534	153.203	156.450	3.247
105	265	150.781	154.980	4.199
105	482	151.490	154.755	3.265
105	372	148.239	155.855	7.616
105	308	161.771	157.565	-4.206
105	438	162.831	166.463	3.632
	Max	167.474	169.189	7.616
	Average	155.918	156.991	1.073
	Min	146.097	145.738	-4.206
	Std Dev	4.669	5.045	2.276



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

krad	0	3	8	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	145.939	153.110	151.620	151.557	152.503	149.153	145.738	153.305	155.223	151.549	154.755
Average	153.341	157.706	157.093	157.004	159.045	158.574	153.395	156.304	159.180	155.877	157.924
Max	157.211	160.763	161.797	168.051	165.890	169.189	159.666	158.094	168.626	161.868	166.463
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

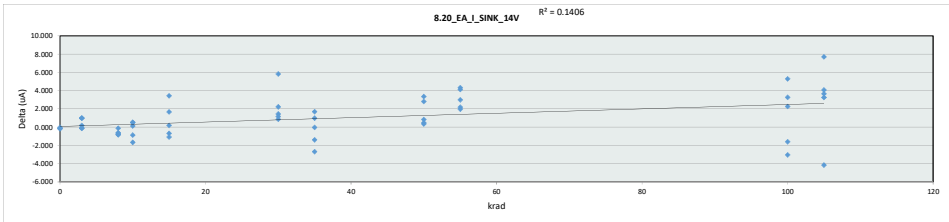


HDR TID Report
TPS7H5003-SP QMLP

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

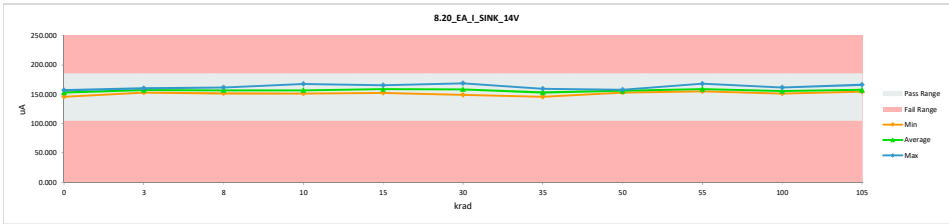
8.20_EA_I_SINK_14V		
Test Site		
Tester		
Test Number		
Unit	uA	uA
Max Limit	185	185
Min Limit	105	105

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	157.128	157.085	-0.043
0	236	156.925	156.732	-0.193
0	563	146.056	145.876	-0.180
3	717	159.390	160.348	0.958
3	685	152.810	152.973	0.163
3	360	154.998	155.995	0.997
3	427	159.641	159.533	-0.108
3	785	158.770	158.617	-0.153
8	770	157.865	157.034	-0.831
8	331	162.510	161.661	-0.849
8	279	151.644	151.504	-0.140
8	694	160.791	160.110	-0.681
8	337	154.896	154.258	-0.638
10	498	152.803	152.913	0.110
10	139	156.119	155.227	-0.892
10	632	167.358	167.882	0.524
10	465	158.488	156.800	-1.688
10	500	151.011	151.481	0.470
15	209	163.407	165.056	1.649
15	720	153.781	152.684	-1.097
15	327	162.217	165.642	3.425
15	700	153.034	152.332	-0.702
15	851	158.598	158.765	0.167
30	571	163.137	168.946	5.809
30	172	156.695	157.839	1.144
30	375	153.759	154.607	0.848
30	445	147.641	149.059	1.418
30	103	159.484	161.689	2.205
35	119	153.910	154.870	0.960
35	90	162.222	159.511	-2.711
35	297	152.554	152.506	-0.048
35	594	147.118	145.701	-1.417
35	586	152.105	153.781	1.676
50	152	154.536	157.872	3.336
50	359	155.925	156.254	0.329
50	126	152.593	153.055	0.462
50	883	155.705	156.533	0.828
50	117	153.995	156.785	2.790
55	301	163.905	168.219	4.314
55	593	151.633	155.735	4.102
55	374	152.988	154.948	1.960
55	650	154.783	156.954	2.171
55	324	156.231	159.209	2.978
100	562	152.947	151.326	-1.621
100	753	156.550	161.819	5.269
100	547	156.080	153.018	-3.062
100	724	154.058	156.308	2.250
100	534	153.100	156.350	3.250
105	265	150.738	154.792	4.054
105	482	151.259	154.491	3.232
105	372	148.099	155.789	7.690
105	308	161.521	157.348	-4.173
105	438	162.628	166.265	3.637
	Max	167.358	168.946	7.690
	Average	155.814	156.832	1.018
	Min	146.056	145.701	-4.173
	Std Dev	4.646	5.016	2.280



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

krad	0	3	8	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	145.876	152.973	151.504	151.481	152.332	149.059	145.701	153.055	154.948	151.326	154.491
Average	153.231	157.493	156.913	156.861	158.896	158.428	153.274	156.100	159.013	155.764	157.737
Max	157.085	160.348	161.661	167.882	165.642	168.946	159.511	157.872	168.219	161.819	166.265
UL	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000	185.000

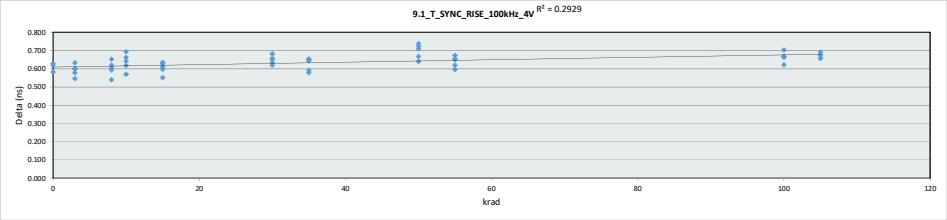


HDR TID Report
TPS7H5003-SP QMLP

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

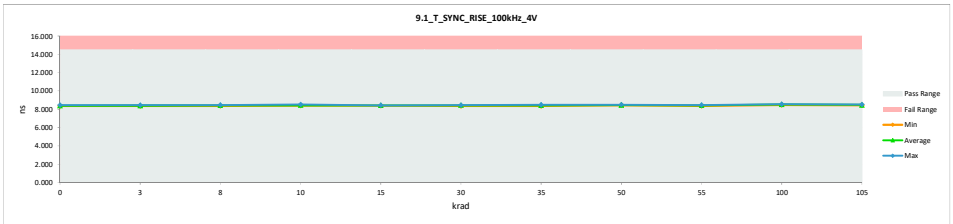
	9.1_T_SYNC_RISE_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14.5	14.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.759	8.340	0.581
0	236	7.747	8.366	0.619
0	563	7.816	8.444	0.628
3	717	7.842	8.441	0.599
3	685	7.793	8.425	0.632
3	360	7.797	8.396	0.599
3	427	7.794	8.339	0.545
3	785	7.829	8.406	0.577
8	770	7.869	8.408	0.539
8	331	7.768	8.419	0.651
8	279	7.754	8.356	0.602
8	694	7.836	8.454	0.618
8	337	7.787	8.380	0.593
10	498	7.869	8.438	0.569
10	139	7.790	8.407	0.617
10	632	7.740	8.381	0.641
10	465	7.730	8.391	0.661
10	500	7.814	8.506	0.692
15	209	7.855	8.406	0.551
15	720	7.799	8.425	0.626
15	327	7.818	8.426	0.608
15	700	7.833	8.429	0.596
15	851	7.731	8.365	0.634
30	571	7.775	8.431	0.656
30	172	7.767	8.448	0.681
30	375	7.693	8.344	0.651
30	445	7.812	8.431	0.619
30	103	7.816	8.450	0.634
35	119	7.709	8.361	0.652
35	90	7.829	8.471	0.642
35	297	7.865	8.442	0.577
35	594	7.790	8.380	0.590
35	586	7.759	8.410	0.651
50	152	7.755	8.464	0.709
50	359	7.834	8.500	0.666
50	126	7.745	8.467	0.722
50	883	7.683	8.420	0.737
50	117	7.806	8.445	0.639
55	301	7.784	8.456	0.672
55	593	7.787	8.437	0.650
55	374	7.741	8.360	0.619
55	650	7.718	8.371	0.653
55	324	7.798	8.393	0.595
100	562	7.778	8.480	0.702
100	753	7.856	8.519	0.663
100	547	7.869	8.536	0.667
100	724	7.791	8.455	0.664
100	534	7.925	8.546	0.621
105	265	7.759	8.435	0.676
105	482	7.805	8.460	0.655
105	372	7.753	8.443	0.690
105	308	7.814	8.489	0.675
105	438	7.853	8.513	0.660
	Max	7.925	8.546	0.737
	Average	7.793	8.428	0.635
	Min	7.683	8.339	0.539
	Std Dev	0.049	0.050	0.044



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

krad	0	3	8	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	8.340	8.339	8.356	8.381	8.365	8.344	8.361	8.420	8.360	8.455	8.435
Average	8.383	8.401	8.403	8.425	8.410	8.421	8.413	8.459	8.403	8.507	8.468
Max	8.444	8.441	8.454	8.506	8.429	8.450	8.471	8.500	8.456	8.546	8.513
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

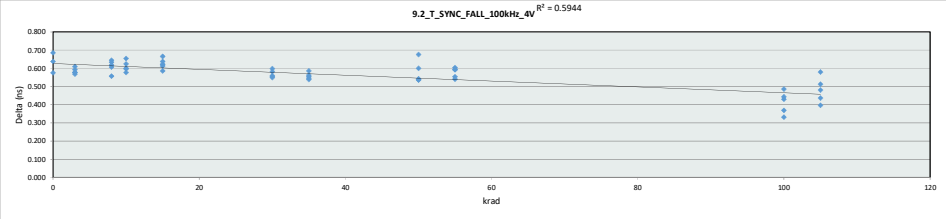


HDR TID Report
TPS7H5003-SP QMLP

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

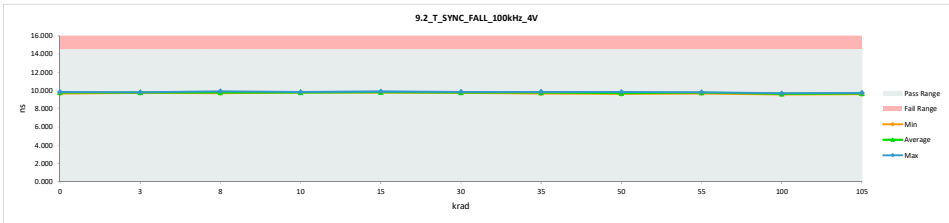
	9.2_T_SYNC_FALL_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14.5	14.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	9.127	9.811	0.684
0	236	9.047	9.684	0.637
0	563	9.259	9.833	0.574
3	717	9.240	9.817	0.577
3	685	9.177	9.786	0.609
3	360	9.207	9.784	0.577
3	427	9.208	9.800	0.592
3	785	9.189	9.756	0.567
8	770	9.227	9.783	0.556
8	331	9.211	9.817	0.606
8	279	9.094	9.711	0.617
8	694	9.126	9.769	0.643
8	337	9.273	9.905	0.632
10	498	9.226	9.822	0.596
10	139	9.193	9.769	0.576
10	632	9.163	9.763	0.600
10	465	9.145	9.798	0.653
10	500	9.202	9.825	0.623
15	209	9.265	9.850	0.585
15	720	9.140	9.761	0.621
15	327	9.166	9.803	0.637
15	700	9.282	9.894	0.612
15	851	9.126	9.791	0.665
30	571	9.276	9.857	0.581
30	172	9.231	9.779	0.548
30	375	9.198	9.752	0.554
30	445	9.216	9.775	0.559
30	103	9.218	9.815	0.597
35	119	9.306	9.860	0.554
35	90	9.237	9.782	0.545
35	297	9.217	9.779	0.562
35	594	9.138	9.676	0.538
35	586	9.178	9.763	0.585
50	152	9.164	9.839	0.675
50	359	9.093	9.629	0.536
50	126	9.186	9.721	0.535
50	883	9.031	9.630	0.599
50	117	9.202	9.744	0.542
55	301	9.169	9.762	0.593
55	593	9.099	9.690	0.591
55	374	9.243	9.783	0.540
55	650	9.212	9.815	0.603
55	324	9.246	9.799	0.553
100	562	9.177	9.662	0.485
100	753	9.261	9.690	0.429
100	547	9.245	9.576	0.331
100	724	9.192	9.634	0.442
100	534	9.311	9.679	0.368
105	265	9.128	9.608	0.480
105	482	9.069	9.648	0.579
105	372	9.290	9.686	0.396
105	308	9.186	9.698	0.512
105	438	9.311	9.747	0.436
	Max	9.311	9.905	0.684
	Average	9.195	9.759	0.564
	Min	9.031	9.576	0.331
	Std Dev	0.066	0.074	0.074



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

krad	0	3	8	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	9.684	9.756	9.711	9.763	9.761	9.752	9.676	9.629	9.690	9.576	9.608
Average	9.776	9.789	9.797	9.795	9.820	9.796	9.772	9.713	9.770	9.648	9.677
Max	9.833	9.817	9.905	9.825	9.894	9.857	9.860	9.839	9.815	9.690	9.747
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

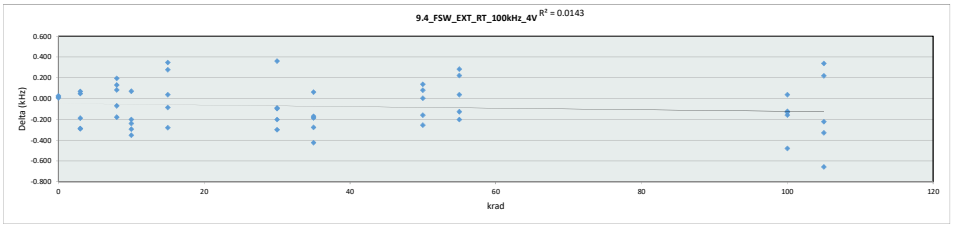


HDR TID Report
TPS7H5003-SP QMLP

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

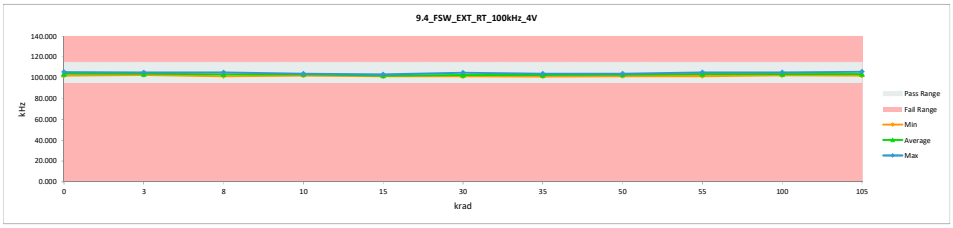
	9.4_FSW_EXT_RT_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	105.460	105.475	0.015
0	236	103.639	103.643	0.004
0	563	102.048	102.073	0.025
3	717	103.283	103.350	0.067
3	685	103.269	102.976	-0.293
3	360	102.645	102.691	0.046
3	427	105.146	104.956	-0.190
3	785	105.168	104.879	-0.289
8	770	102.302	102.494	0.192
8	331	104.826	104.955	0.129
8	279	104.587	104.406	-0.181
8	694	102.666	102.747	0.081
8	337	101.611	101.539	-0.072
10	498	101.942	102.010	0.068
10	139	103.962	103.720	-0.242
10	632	103.288	103.085	-0.203
10	465	104.141	103.787	-0.354
10	500	103.926	103.630	-0.296
15	209	101.626	101.538	-0.088
15	720	103.070	103.105	0.035
15	327	101.226	101.501	0.275
15	700	101.025	101.370	0.345
15	851	103.053	102.770	-0.283
30	571	102.278	102.637	0.359
30	172	103.078	102.776	-0.302
30	375	102.042	101.838	-0.204
30	445	104.853	104.754	-0.099
30	103	101.502	101.410	-0.092
35	119	101.690	101.264	-0.426
35	90	102.530	102.251	-0.279
35	297	103.760	103.820	0.060
35	594	102.505	102.317	-0.188
35	586	103.934	103.762	-0.172
50	152	103.653	103.395	-0.258
50	359	101.785	101.623	-0.162
50	126	103.255	103.256	0.001
50	883	103.371	103.507	0.136
50	117	103.744	103.823	0.079
55	301	103.795	103.666	-0.129
55	593	102.559	102.779	0.220
55	374	103.887	104.168	0.281
55	650	101.827	101.623	-0.204
55	324	105.113	105.148	0.035
100	562	102.943	102.782	-0.161
100	753	104.524	104.559	0.035
100	547	103.651	103.518	-0.133
100	724	102.789	102.307	-0.482
100	534	105.271	105.146	-0.125
105	265	102.871	102.212	-0.659
105	482	103.417	103.634	0.217
105	372	105.086	104.862	-0.224
105	308	102.217	101.885	-0.332
105	438	105.421	105.757	0.336
	Max	105.460	105.757	0.359
	Average	103.269	103.192	-0.077
	Min	101.025	101.264	-0.659
	Std Dev	1.197	1.208	0.222



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

krad	0	3	8	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	102.073	102.691	101.539	102.010	101.370	101.410	101.264	101.623	101.623	102.307	101.885
Average	103.730	103.770	103.228	103.246	102.057	102.683	102.683	103.121	103.477	103.662	103.670
Max	105.475	104.956	104.955	103.787	103.105	104.754	103.820	103.823	105.148	105.146	105.757
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

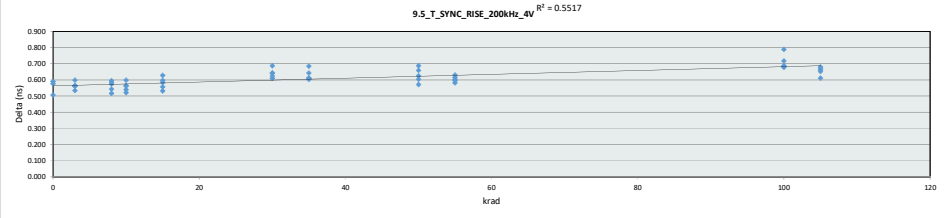


HDR TID Report
TPS7H5003-SP QMLP

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

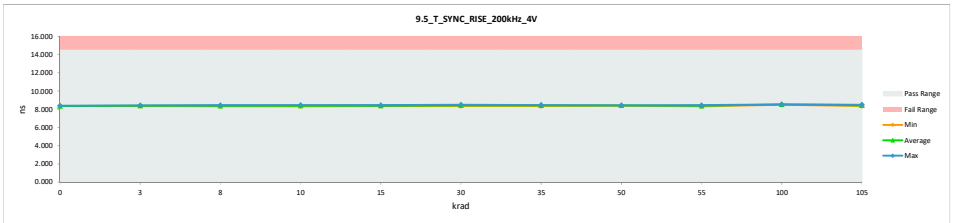
	9.5_T_SYNC_RISE_200kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14.5	14.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.763	8.352	0.589
0	236	7.812	8.387	0.575
0	563	7.865	8.371	0.506
3	717	7.838	8.436	0.598
3	685	7.848	8.409	0.561
3	360	7.853	8.386	0.533
3	427	7.787	8.352	0.565
3	785	7.844	8.404	0.560
8	770	7.814	8.408	0.594
8	331	7.825	8.367	0.542
8	279	7.821	8.337	0.516
8	694	7.863	8.447	0.584
8	337	7.800	8.373	0.573
10	498	7.848	8.446	0.598
10	139	7.822	8.383	0.561
10	632	7.811	8.350	0.539
10	465	7.777	8.341	0.564
10	500	7.936	8.456	0.520
15	209	7.843	8.426	0.583
15	720	7.850	8.406	0.556
15	327	7.846	8.442	0.596
15	700	7.888	8.419	0.531
15	851	7.739	8.366	0.627
30	571	7.816	8.439	0.623
30	172	7.854	8.495	0.641
30	375	7.725	8.366	0.641
30	445	7.764	8.450	0.686
30	103	7.872	8.481	0.609
35	119	7.747	8.349	0.602
35	90	7.866	8.475	0.609
35	297	7.851	8.462	0.611
35	594	7.798	8.440	0.642
35	586	7.703	8.387	0.684
50	152	7.821	8.424	0.603
50	359	7.868	8.439	0.571
50	126	7.812	8.437	0.625
50	883	7.731	8.389	0.658
50	117	7.750	8.436	0.686
55	301	7.841	8.441	0.600
55	593	7.829	8.410	0.581
55	374	7.730	8.326	0.596
55	650	7.741	8.370	0.629
55	324	7.754	8.367	0.613
100	562	7.805	8.492	0.687
100	753	7.825	8.541	0.716
100	547	7.863	8.540	0.677
100	724	7.745	8.532	0.787
100	534	7.840	8.521	0.681
105	265	7.767	8.418	0.651
105	482	7.795	8.468	0.673
105	372	7.740	8.350	0.610
105	308	7.818	8.480	0.662
105	438	7.829	8.508	0.679
	Max	7.936	8.541	0.787
	Average	7.811	8.421	0.610
	Min	7.703	8.326	0.506
	Std Dev	0.050	0.056	0.057



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

krad	0	3	8	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	8.352	8.352	8.337	8.341	8.366	8.366	8.349	8.389	8.326	8.492	8.350
Average	8.370	8.397	8.386	8.395	8.412	8.446	8.423	8.425	8.383	8.525	8.445
Max	8.387	8.436	8.447	8.456	8.442	8.495	8.475	8.439	8.441	8.541	8.508
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

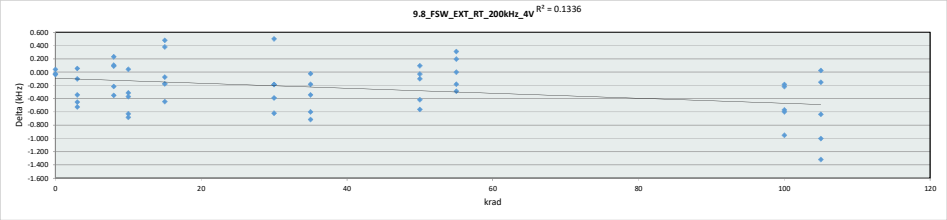


HDR TID Report
TPS7H5003-SP QMLP

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

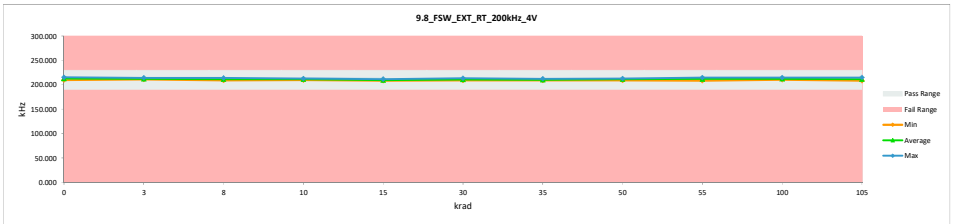
	9.8_FSW_EXT_RT_200kHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	215.394	215.433	0.039
0	236	212.771	212.734	-0.037
0	563	209.797	209.768	-0.029
3	717	211.992	211.888	-0.104
3	685	211.509	210.983	-0.526
3	360	210.704	210.757	0.053
3	427	214.594	214.249	-0.345
3	785	214.964	214.510	-0.454
8	770	210.154	210.385	0.231
8	331	213.745	213.835	0.090
8	279	213.522	213.170	-0.352
8	694	211.100	211.203	0.103
8	337	209.031	208.813	-0.218
10	498	209.516	209.557	0.041
10	139	212.435	212.120	-0.315
10	632	211.800	211.429	-0.371
10	465	213.436	212.753	-0.683
10	500	212.739	212.109	-0.630
15	209	209.263	209.084	-0.179
15	720	211.215	211.138	-0.077
15	327	208.513	208.891	0.378
15	700	208.213	208.692	0.479
15	851	211.916	211.469	-0.447
30	571	210.360	210.859	0.499
30	172	211.535	210.913	-0.622
30	375	210.042	209.651	-0.391
30	445	213.669	213.480	-0.189
30	103	208.975	208.787	-0.188
35	119	209.650	208.934	-0.716
35	90	210.119	209.517	-0.602
35	297	212.025	212.000	-0.025
35	594	210.682	210.337	-0.345
35	586	212.689	212.504	-0.185
50	152	212.576	212.012	-0.564
50	359	209.387	208.970	-0.417
50	126	211.763	211.661	-0.102
50	883	211.974	212.068	0.094
50	117	212.700	212.670	-0.030
55	301	212.140	211.956	-0.184
55	593	210.317	210.626	0.309
55	374	213.480	213.674	0.194
55	650	208.966	208.676	-0.290
55	324	214.683	214.682	-0.001
100	562	211.568	210.996	-0.572
100	753	213.306	213.119	-0.187
100	547	212.381	211.781	-0.600
100	724	211.223	210.270	-0.953
100	534	214.830	214.610	-0.220
105	265	210.895	209.576	-1.319
105	482	211.365	211.212	-0.153
105	372	214.318	213.680	-0.638
105	308	209.638	208.634	-1.004
105	438	214.894	214.918	0.024
	Max	215.394	215.433	0.499
	Average	211.707	211.467	-0.240
	Min	208.213	208.634	-1.319
	Std Dev	1.874	1.883	0.368



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

krad	0	3	8	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	209.768	210.757	208.813	209.557	208.692	208.787	208.934	208.970	208.676	210.270	208.634
Average	212.645	212.477	211.481	211.594	209.855	210.738	210.658	211.476	211.923	212.155	211.604
Max	215.433	214.510	213.835	212.753	211.469	213.480	212.504	212.670	214.682	214.610	214.918
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

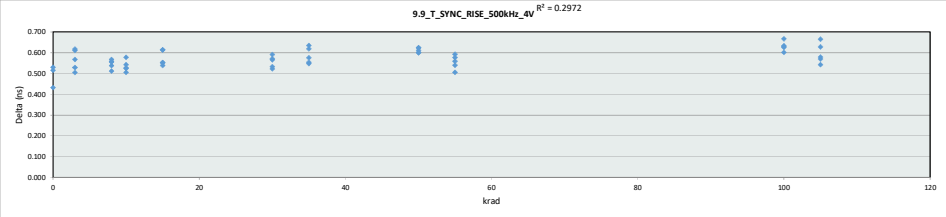


HDR TID Report
TPS7H5003-SP QMLP

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

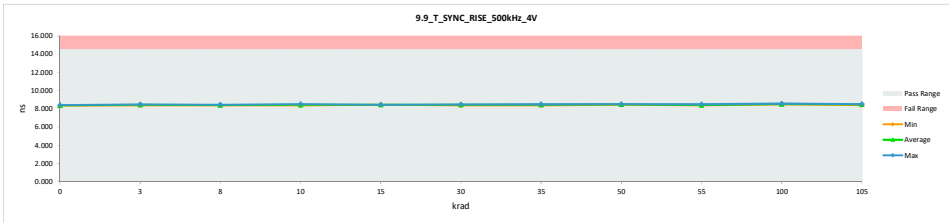
	9.9_T_SYNC_RISE_500kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14.5	14.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.900	8.331	0.431
0	236	7.860	8.375	0.515
0	563	7.863	8.392	0.529
3	717	7.872	8.482	0.610
3	685	7.913	8.441	0.528
3	360	7.830	8.447	0.617
3	427	7.861	8.365	0.504
3	785	7.907	8.474	0.567
8	770	7.889	8.426	0.537
8	331	7.862	8.429	0.567
8	279	7.854	8.365	0.511
8	694	7.893	8.450	0.557
8	337	7.841	8.395	0.554
10	498	7.919	8.461	0.542
10	139	7.864	8.390	0.526
10	632	7.865	8.370	0.505
10	465	7.858	8.382	0.524
10	500	7.936	8.513	0.577
15	209	7.898	8.450	0.552
15	720	7.903	8.454	0.551
15	327	7.918	8.456	0.538
15	700	7.837	8.450	0.613
15	851	7.810	8.423	0.613
30	571	7.931	8.453	0.522
30	172	7.912	8.477	0.565
30	375	7.794	8.364	0.570
30	445	7.833	8.424	0.591
30	103	7.943	8.475	0.532
35	119	7.778	8.412	0.634
35	90	7.910	8.463	0.553
35	297	7.873	8.491	0.618
35	594	7.882	8.429	0.547
35	586	7.815	8.390	0.575
50	152	7.874	8.498	0.624
50	359	7.878	8.478	0.600
50	126	7.866	8.476	0.610
50	883	7.826	8.448	0.622
50	117	7.849	8.448	0.599
55	301	7.957	8.496	0.539
55	593	7.848	8.440	0.592
55	374	7.828	8.386	0.558
55	650	7.803	8.379	0.576
55	324	7.877	8.382	0.505
100	562	7.832	8.498	0.666
100	753	7.918	8.549	0.631
100	547	7.934	8.559	0.625
100	724	7.857	8.489	0.632
100	534	7.928	8.529	0.601
105	265	7.878	8.420	0.542
105	482	7.799	8.463	0.664
105	372	7.837	8.415	0.578
105	308	7.896	8.523	0.627
105	438	7.951	8.520	0.569
	Max	7.957	8.559	0.666
	Average	7.873	8.443	0.570
	Min	7.778	8.331	0.431
	Std Dev	0.043	0.052	0.047



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

krad	0	3	8	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	8.331	8.365	8.365	8.370	8.423	8.364	8.390	8.448	8.379	8.489	8.415
Average	8.366	8.442	8.413	8.423	8.447	8.439	8.437	8.470	8.417	8.525	8.468
Max	8.392	8.482	8.450	8.513	8.456	8.477	8.491	8.498	8.496	8.559	8.523
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

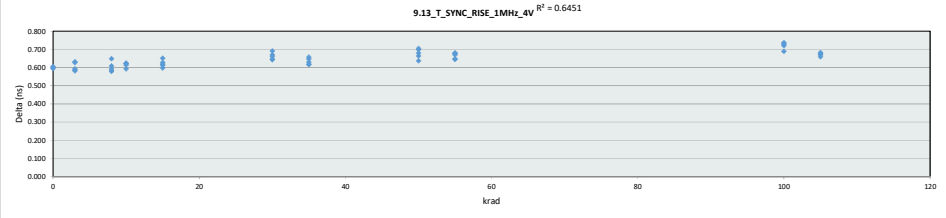


HDR TID Report
TPS7H5003-SP QMLP

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

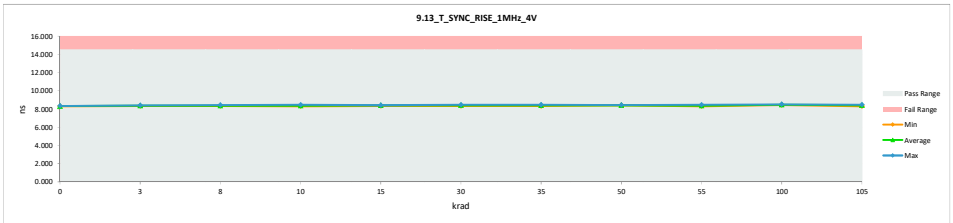
	9.13_T_SYNC_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14.5	14.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.695	8.300	0.605
0	236	7.723	8.316	0.593
0	563	7.731	8.329	0.598
3	717	7.767	8.393	0.626
3	685	7.798	8.379	0.581
3	360	7.775	8.361	0.586
3	427	7.728	8.320	0.592
3	785	7.775	8.406	0.631
8	770	7.798	8.379	0.581
8	331	7.796	8.374	0.578
8	279	7.737	8.328	0.591
8	694	7.779	8.427	0.648
8	337	7.736	8.344	0.608
10	498	7.802	8.424	0.622
10	139	7.786	8.378	0.592
10	632	7.705	8.325	0.620
10	465	7.698	8.311	0.613
10	500	7.825	8.448	0.623
15	209	7.796	8.393	0.597
15	720	7.771	8.383	0.612
15	327	7.757	8.407	0.650
15	700	7.777	8.395	0.618
15	851	7.706	8.333	0.627
30	571	7.746	8.407	0.661
30	172	7.781	8.427	0.646
30	375	7.670	8.339	0.669
30	445	7.729	8.419	0.690
30	103	7.812	8.454	0.642
35	119	7.702	8.319	0.617
35	90	7.813	8.442	0.629
35	297	7.796	8.452	0.656
35	594	7.753	8.368	0.615
35	586	7.717	8.363	0.646
50	152	7.727	8.405	0.678
50	359	7.799	8.435	0.636
50	126	7.737	8.441	0.704
50	883	7.693	8.391	0.698
50	117	7.721	8.384	0.663
55	301	7.804	8.450	0.646
55	593	7.722	8.391	0.669
55	374	7.666	8.311	0.645
55	650	7.665	8.341	0.676
55	324	7.679	8.358	0.679
100	562	7.738	8.472	0.734
100	753	7.787	8.475	0.688
100	547	7.779	8.513	0.734
100	724	7.714	8.441	0.727
100	534	7.769	8.488	0.719
105	265	7.743	8.413	0.670
105	482	7.737	8.418	0.681
105	372	7.636	8.307	0.671
105	308	7.780	8.438	0.658
105	438	7.793	8.471	0.678
	Max	7.825	8.513	0.734
	Average	7.748	8.392	0.644
	Min	7.636	8.300	0.578
	Std Dev	0.045	0.053	0.041



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

krad	0	3	8	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	8.300	8.320	8.328	8.311	8.333	8.339	8.319	8.384	8.311	8.441	8.307
Average	8.315	8.372	8.370	8.377	8.382	8.409	8.389	8.411	8.370	8.478	8.409
Max	8.329	8.406	8.427	8.448	8.407	8.454	8.452	8.441	8.450	8.513	8.471
UL	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500	14.500

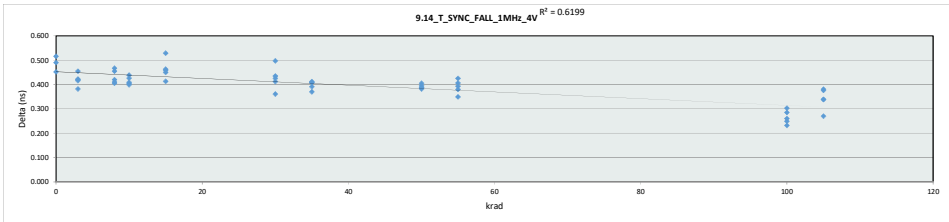


HDR TID Report
TPS7H5003-SP QMLP

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

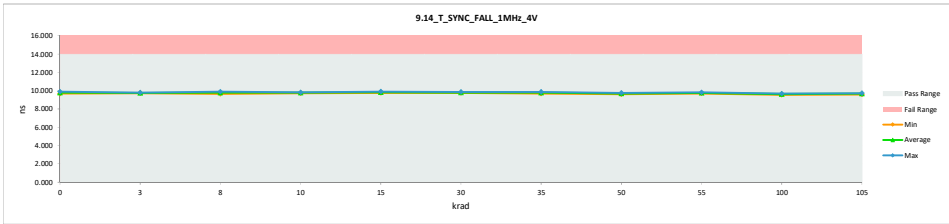
	9.14_T_SYNC_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	9.257	9.773	0.516
0	236	9.186	9.676	0.490
0	563	9.425	9.877	0.452
3	717	9.413	9.795	0.382
3	685	9.324	9.779	0.455
3	360	9.351	9.773	0.422
3	427	9.338	9.758	0.420
3	785	9.325	9.741	0.416
8	770	9.366	9.776	0.410
8	331	9.368	9.788	0.420
8	279	9.262	9.667	0.405
8	694	9.321	9.788	0.467
8	337	9.420	9.875	0.455
10	498	9.398	9.797	0.399
10	139	9.366	9.775	0.409
10	632	9.320	9.724	0.404
10	465	9.351	9.777	0.426
10	500	9.374	9.813	0.439
15	209	9.431	9.844	0.413
15	720	9.304	9.754	0.450
15	327	9.337	9.796	0.459
15	700	9.441	9.904	0.463
15	851	9.243	9.772	0.529
30	571	9.440	9.852	0.412
30	172	9.414	9.775	0.361
30	375	9.334	9.759	0.425
30	445	9.330	9.765	0.435
30	103	9.313	9.810	0.497
35	119	9.443	9.855	0.412
35	90	9.432	9.802	0.370
35	297	9.360	9.769	0.409
35	594	9.282	9.689	0.407
35	586	9.362	9.753	0.391
50	152	9.356	9.761	0.405
50	359	9.270	9.657	0.387
50	126	9.338	9.720	0.382
50	883	9.223	9.612	0.389
50	117	9.358	9.754	0.396
55	301	9.358	9.738	0.380
55	593	9.304	9.697	0.393
55	374	9.390	9.739	0.349
55	650	9.410	9.816	0.406
55	324	9.361	9.786	0.425
100	562	9.361	9.646	0.285
100	753	9.370	9.673	0.303
100	547	9.303	9.563	0.260
100	724	9.369	9.618	0.249
100	534	9.432	9.664	0.232
105	265	9.328	9.598	0.270
105	482	9.247	9.623	0.376
105	372	9.351	9.689	0.338
105	308	9.334	9.715	0.381
105	438	9.389	9.728	0.339
	Max	9.443	9.904	0.529
	Average	9.349	9.748	0.399
	Min	9.186	9.563	0.232
	Std Dev	0.059	0.074	0.062



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

krad	0	3	8	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	9.676	9.741	9.667	9.724	9.754	9.759	9.689	9.612	9.697	9.563	9.598
Average	9.775	9.769	9.779	9.777	9.814	9.792	9.774	9.701	9.755	9.633	9.671
Max	9.877	9.795	9.875	9.813	9.904	9.852	9.855	9.761	9.816	9.673	9.728
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

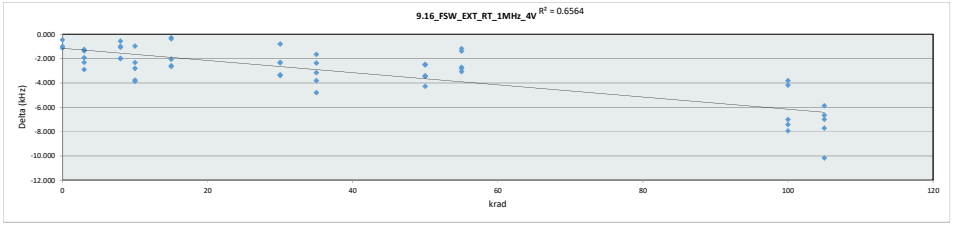


HDR TID Report
TPS7H5003-SP QMLP

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

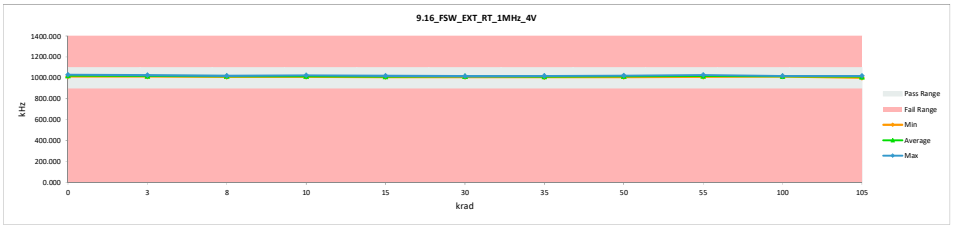
	9.16_FSW_EXT_RT_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1029.839	1029.381	-0.458
0	236	1026.342	1025.334	-1.008
0	563	1013.141	1011.998	-1.143
3	717	1018.956	1017.581	-1.375
3	685	1014.009	1011.109	-2.900
3	360	1015.835	1014.585	-1.250
3	427	1026.935	1025.003	-1.932
3	785	1027.777	1025.458	-2.319
8	770	1013.619	1012.544	-1.075
8	331	1020.287	1019.716	-0.571
8	279	1020.978	1018.993	-1.985
8	694	1018.748	1017.741	-1.007
8	337	1010.884	1008.889	-1.995
10	498	1011.123	1010.145	-0.978
10	139	1016.032	1013.701	-2.331
10	632	1022.279	1019.468	-2.811
10	465	1028.480	1024.614	-3.866
10	500	1018.874	1015.107	-3.767
15	209	1013.690	1011.637	-2.053
15	720	1013.537	1010.942	-2.595
15	327	1011.330	1011.040	-0.290
15	700	1007.480	1007.093	-0.387
15	851	1022.944	1020.295	-2.649
30	571	1017.456	1016.659	-0.797
30	172	1019.674	1016.273	-3.401
30	375	1017.601	1015.251	-2.350
30	445	1019.031	1015.694	-3.337
30	103	1009.629	1007.311	-2.318
35	119	1019.360	1015.540	-3.820
35	90	1009.872	1005.066	-4.806
35	297	1013.071	1010.706	-2.365
35	594	1016.231	1013.070	-3.161
35	586	1020.847	1019.190	-1.657
50	152	1023.185	1018.895	-4.290
50	359	1011.321	1007.861	-3.460
50	126	1019.147	1016.627	-2.520
50	883	1019.015	1015.597	-3.418
50	117	1024.493	1022.012	-2.481
55	301	1015.974	1013.145	-2.829
55	593	1014.349	1013.166	-1.183
55	374	1028.979	1026.255	-2.724
55	650	1012.794	1009.726	-3.068
55	324	1028.875	1027.482	-1.393
100	562	1021.099	1013.148	-7.951
100	753	1020.352	1016.162	-4.190
100	547	1018.719	1011.705	-7.014
100	724	1019.587	1012.159	-7.428
100	534	1022.554	1018.737	-3.817
105	265	1017.666	1009.942	-7.724
105	482	1013.833	1007.169	-6.664
105	372	1025.145	1019.261	-5.884
105	308	1010.501	1000.325	-10.176
105	438	1023.900	1016.894	-7.006
	Max	1029.839	1029.381	-0.290
	Average	1018.441	1015.347	-3.094
	Min	1007.480	1000.325	-10.176
	Std Dev	5.681	6.058	2.203



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

krad	0	3	8	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	1011.998	1011.109	1008.889	1010.145	1007.093	1007.311	1005.066	1007.861	1009.726	1011.705	1000.325
Average	1022.238	1018.747	1015.577	1016.607	1012.201	1014.238	1012.714	1016.198	1017.955	1014.382	1010.718
Max	1029.381	1025.458	1019.716	1024.614	1020.295	1016.659	1019.190	1022.012	1027.482	1018.737	1019.261
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

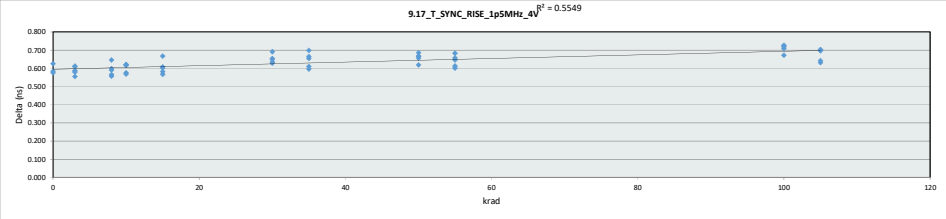


HDR TID Report
TPS7H5003-SP QMLP

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

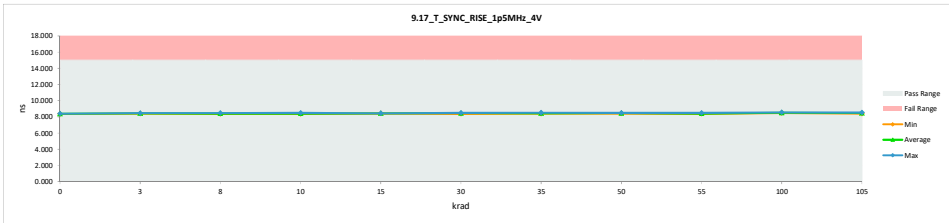
	9.17_T_SYNC_RISE_1p5MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	15
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.785	8.359	0.574
0	236	7.777	8.401	0.624
0	563	7.792	8.375	0.583
3	717	7.873	8.451	0.578
3	685	7.866	8.420	0.554
3	360	7.785	8.393	0.608
3	427	7.790	8.401	0.611
3	785	7.837	8.423	0.586
8	770	7.833	8.430	0.597
8	331	7.829	8.418	0.589
8	279	7.788	8.353	0.565
8	694	7.823	8.468	0.645
8	337	7.823	8.379	0.556
10	498	7.869	8.444	0.575
10	139	7.820	8.387	0.567
10	632	7.727	8.346	0.619
10	465	7.766	8.381	0.615
10	500	7.866	8.486	0.620
15	209	7.850	8.416	0.566
15	720	7.823	8.430	0.607
15	327	7.834	8.435	0.601
15	700	7.822	8.403	0.581
15	851	7.738	8.404	0.666
30	571	7.819	8.469	0.650
30	172	7.835	8.462	0.627
30	375	7.712	8.364	0.652
30	445	7.768	8.458	0.690
30	103	7.854	8.489	0.635
35	119	7.681	8.378	0.697
35	90	7.861	8.470	0.609
35	297	7.843	8.496	0.653
35	594	7.817	8.412	0.595
35	586	7.738	8.402	0.664
50	152	7.777	8.443	0.666
50	359	7.829	8.447	0.618
50	126	7.805	8.490	0.685
50	883	7.741	8.406	0.665
50	117	7.815	8.470	0.655
55	301	7.839	8.484	0.645
55	593	7.795	8.395	0.600
55	374	7.699	8.381	0.682
55	650	7.754	8.366	0.612
55	324	7.764	8.420	0.656
100	562	7.820	8.491	0.671
100	753	7.813	8.539	0.726
100	547	7.838	8.560	0.722
100	724	7.757	8.474	0.717
100	534	7.837	8.544	0.707
105	265	7.802	8.443	0.641
105	482	7.763	8.465	0.702
105	372	7.762	8.392	0.630
105	308	7.804	8.499	0.695
105	438	7.824	8.525	0.701
	Max	7.873	8.560	0.726
	Average	7.802	8.435	0.633
	Min	7.681	8.346	0.554
	Std Dev	0.045	0.052	0.047



	9.17_T_SYNC_RISE_1p5MHz_4	
Test Site		
Tester		
Test Number		
Max Limit	15	ns
Min Limit	0	ns

krad	0	3	8	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	8.359	8.393	8.353	8.346	8.403	8.364	8.378	8.406	8.366	8.474	8.392
Average	8.378	8.418	8.410	8.409	8.418	8.448	8.432	8.451	8.409	8.522	8.465
Max	8.401	8.451	8.468	8.486	8.435	8.489	8.496	8.490	8.484	8.560	8.525
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000

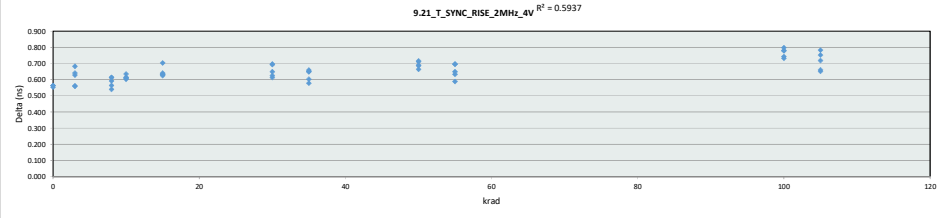


HDR TID Report
TPS7H5003-SP QMLP

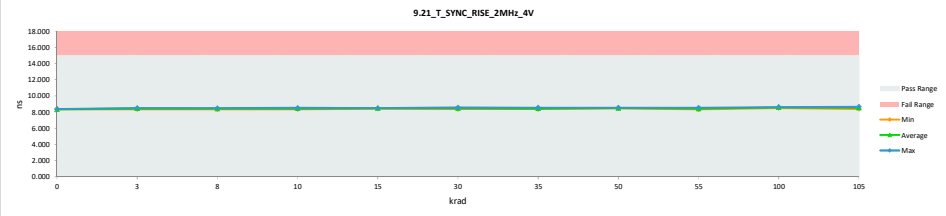
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	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 #	PRE_HDR	POST_HDR	Delta
0	797	7.772	8.335	0.563
0	236	7.792	8.354	0.562
0	563	7.812	8.364	0.552
3	717	7.859	8.486	0.627
3	685	7.818	8.500	0.682
3	360	7.811	8.451	0.640
3	427	7.785	8.346	0.561
3	785	7.823	8.381	0.558
8	770	7.847	8.460	0.613
8	331	7.844	8.435	0.591
8	279	7.774	8.337	0.563
8	694	7.872	8.484	0.612
8	337	7.830	8.369	0.539
10	498	7.897	8.504	0.607
10	139	7.813	8.447	0.634
10	632	7.787	8.401	0.614
10	465	7.747	8.348	0.601
10	500	7.908	8.519	0.611
15	209	7.837	8.470	0.633
15	720	7.854	8.478	0.624
15	327	7.837	8.476	0.639
15	700	7.836	8.466	0.630
15	851	7.710	8.412	0.702
30	571	7.831	8.443	0.612
30	172	7.838	8.462	0.624
30	375	7.736	8.384	0.648
30	445	7.837	8.533	0.696
30	103	7.858	8.550	0.692
35	119	7.716	8.365	0.649
35	90	7.883	8.541	0.658
35	297	7.886	8.533	0.647
35	594	7.822	8.399	0.577
35	586	7.784	8.386	0.602
50	152	7.788	8.498	0.710
50	359	7.852	8.540	0.688
50	126	7.819	8.504	0.685
50	883	7.761	8.476	0.715
50	117	7.801	8.464	0.663
55	301	7.848	8.542	0.694
55	593	7.788	8.436	0.648
55	374	7.735	8.322	0.587
55	650	7.726	8.422	0.696
55	324	7.761	8.393	0.632
100	562	7.763	8.560	0.797
100	753	7.841	8.583	0.742
100	547	7.857	8.634	0.777
100	724	7.771	8.502	0.731
100	534	7.805	8.585	0.780
105	265	7.816	8.475	0.659
105	482	7.806	8.557	0.751
105	372	7.748	8.398	0.650
105	308	7.856	8.637	0.781
105	438	7.833	8.550	0.717
	Max	7.908	8.637	0.797
	Average	7.812	8.462	0.650
	Min	7.710	8.322	0.539
	Std Dev	0.047	0.079	0.064



	9.21_T_SYNC_RISE_2MHz_4V										
Test Site											
Tester											
Test Number											
Max Limit	15	ns									
Min Limit	0	ns									
krad	0	3	8	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	8.335	8.346	8.337	8.348	8.412	8.384	8.365	8.464	8.322	8.502	8.398
Average	8.351	8.433	8.417	8.444	8.460	8.474	8.445	8.496	8.423	8.573	8.523
Max	8.364	8.500	8.484	8.519	8.478	8.550	8.541	8.540	8.542	8.634	8.637
UL	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000	15.000

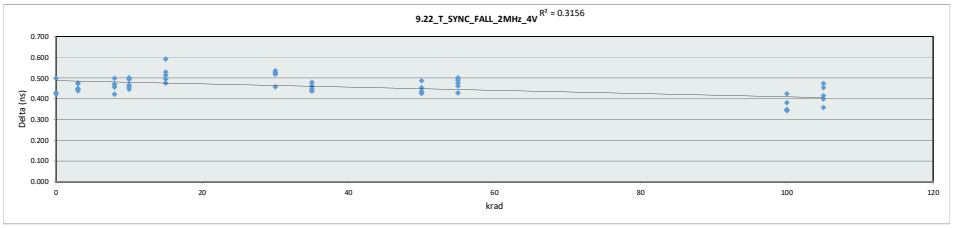


HDR TID Report
TPS7H5003-SP QMLP

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

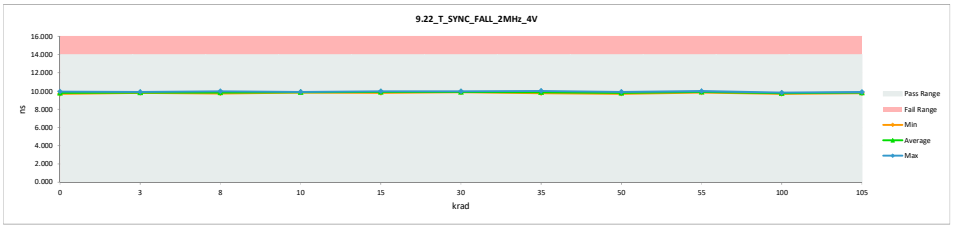
	9.22_T_SYNC_FALL_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	9.280	9.778	0.498
0	236	9.263	9.692	0.429
0	563	9.513	9.935	0.422
3	717	9.420	9.894	0.474
3	685	9.375	9.848	0.473
3	360	9.368	9.816	0.448
3	427	9.429	9.866	0.437
3	785	9.342	9.789	0.447
8	770	9.408	9.829	0.421
8	331	9.408	9.876	0.468
8	279	9.286	9.741	0.455
8	694	9.382	9.850	0.468
8	337	9.466	9.963	0.497
10	498	9.450	9.907	0.457
10	139	9.398	9.898	0.500
10	632	9.417	9.862	0.445
10	465	9.383	9.849	0.466
10	500	9.423	9.915	0.492
15	209	9.470	9.982	0.512
15	720	9.333	9.807	0.474
15	327	9.395	9.922	0.527
15	700	9.479	9.973	0.494
15	851	9.258	9.848	0.590
30	571	9.504	9.960	0.456
30	172	9.383	9.904	0.521
30	375	9.375	9.892	0.517
30	445	9.332	9.866	0.534
30	103	9.393	9.918	0.525
35	119	9.533	10.011	0.478
35	90	9.463	9.925	0.462
35	297	9.410	9.860	0.450
35	594	9.337	9.776	0.439
35	586	9.397	9.833	0.436
50	152	9.422	9.908	0.486
50	359	9.296	9.731	0.435
50	126	9.403	9.828	0.425
50	883	9.250	9.702	0.452
50	117	9.436	9.863	0.427
55	301	9.414	9.841	0.427
55	593	9.358	9.833	0.475
55	374	9.400	9.861	0.461
55	650	9.502	9.991	0.489
55	324	9.437	9.937	0.500
100	562	9.412	9.758	0.346
100	753	9.401	9.824	0.423
100	547	9.349	9.696	0.347
100	724	9.370	9.750	0.380
100	534	9.470	9.812	0.342
105	265	9.412	9.769	0.357
105	482	9.313	9.786	0.473
105	372	9.407	9.821	0.414
105	308	9.442	9.840	0.398
105	438	9.426	9.879	0.453
	Max	9.533	10.011	0.590
	Average	9.396	9.853	0.457
	Min	9.250	9.692	0.342
	Std Dev	0.065	0.076	0.049



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

krad	0	3	8	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	9.692	9.789	9.741	9.849	9.807	9.866	9.776	9.702	9.833	9.696	9.769
Average	9.802	9.843	9.852	9.886	9.906	9.908	9.881	9.806	9.893	9.768	9.819
Max	9.935	9.894	9.963	9.915	9.982	9.960	10.011	9.908	9.991	9.824	9.879
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

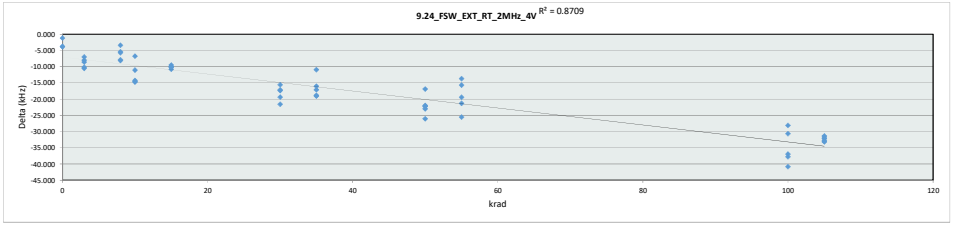


HDR TID Report
TPS7H5003-SP QMLP

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

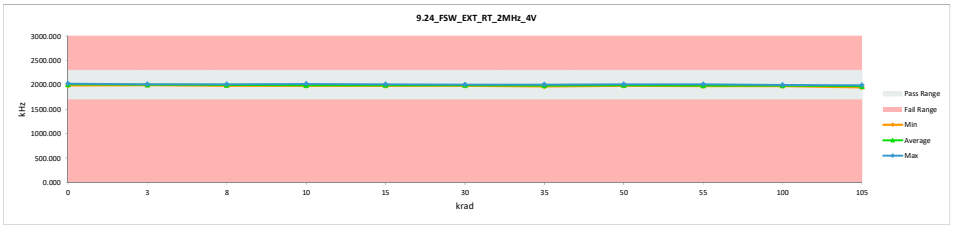
	9.24_FSW_EXT_RT_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2026.533	2025.348	-1.185
0	236	2020.836	2016.935	-3.901
0	563	1987.932	1984.174	-3.758
3	717	2014.106	2006.082	-8.024
3	685	2001.465	1990.927	-10.538
3	360	2012.748	2005.721	-7.027
3	427	2006.359	1997.769	-8.590
3	785	2019.918	2009.741	-10.177
8	770	1997.628	1991.902	-5.726
8	331	2005.848	2002.443	-3.405
8	279	2019.260	2011.372	-7.888
8	694	1997.477	1992.047	-5.430
8	337	1989.791	1981.676	-8.115
10	498	1984.237	1977.477	-6.760
10	139	2005.274	1991.012	-14.262
10	632	1999.722	1988.652	-11.070
10	465	2034.763	2020.017	-14.746
10	500	2004.171	1989.521	-14.650
15	209	1995.736	1986.217	-9.519
15	720	2002.458	1991.647	-10.811
15	327	1986.092	1976.053	-10.039
15	700	2001.888	1991.660	-10.228
15	851	2022.017	2012.056	-9.961
30	571	2001.742	1984.580	-17.162
30	172	2010.988	1991.576	-19.412
30	375	2016.792	1999.401	-17.391
30	445	2027.782	2006.181	-21.601
30	103	1993.818	1978.217	-15.601
35	119	2007.452	1988.393	-19.059
35	90	1983.911	1965.046	-18.865
35	297	2006.683	1989.538	-17.145
35	594	2016.598	2005.677	-10.921
35	586	2014.127	1998.088	-16.039
50	152	2004.918	1978.823	-26.095
50	359	2004.480	1982.505	-21.975
50	126	2012.100	1989.840	-22.260
50	883	2027.997	2011.070	-16.927
50	117	2016.739	1993.706	-23.033
55	301	1991.886	1970.544	-21.342
55	593	1997.760	1978.325	-19.435
55	374	2037.472	2011.917	-25.555
55	650	1987.944	1972.247	-15.697
55	324	2013.020	1999.298	-13.722
100	562	2023.916	1995.793	-28.123
100	753	2012.231	1975.251	-36.980
100	547	1999.444	1968.754	-30.690
100	724	2035.937	1998.128	-37.809
100	534	2027.751	1986.872	-40.879
105	265	2003.573	1971.371	-32.202
105	482	1994.965	1961.778	-33.187
105	372	2025.884	1993.039	-32.845
105	308	1974.236	1942.848	-31.388
105	438	2013.127	1981.435	-31.692
	Max	2037.472	2025.348	-1.185
	Average	2007.953	1990.768	-17.186
	Min	1974.236	1942.848	-40.879
	Std Dev	14.467	15.876	9.977



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

krad	0	3	8	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	1984.174	1990.927	1981.676	1977.477	1976.053	1978.217	1965.046	1978.823	1970.544	1968.754	1942.848
Average	2008.819	2002.048	1995.888	1993.336	1991.527	1991.991	1989.348	1991.189	1986.466	1984.960	1970.094
Max	2025.348	2009.741	2011.372	2020.017	2012.056	2006.181	2005.677	2011.070	2011.917	1998.128	1993.039
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

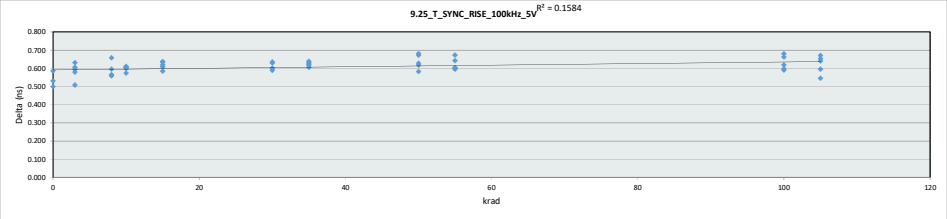


HDR TID Report
TPS7H5003-SP QMLP

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

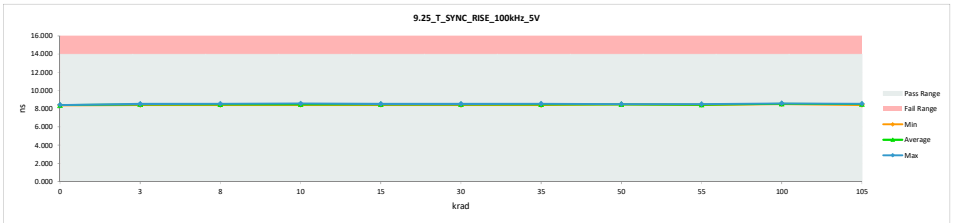
	9.25_T_SYNC_RISE_100kHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.847	8.377	0.530
0	236	7.878	8.376	0.498
0	563	7.833	8.418	0.585
3	717	7.890	8.520	0.630
3	685	7.899	8.477	0.578
3	360	7.853	8.458	0.605
3	427	7.898	8.405	0.507
3	785	7.940	8.533	0.593
8	770	7.894	8.456	0.562
8	331	7.896	8.454	0.558
8	279	7.821	8.415	0.594
8	694	7.887	8.544	0.657
8	337	7.872	8.436	0.564
10	498	7.924	8.497	0.573
10	139	7.876	8.473	0.597
10	632	7.823	8.428	0.605
10	465	7.852	8.456	0.604
10	500	7.950	8.560	0.610
15	209	7.901	8.508	0.607
15	720	7.846	8.479	0.633
15	327	7.896	8.532	0.636
15	700	7.912	8.495	0.583
15	851	7.798	8.417	0.619
30	571	7.878	8.506	0.628
30	172	7.908	8.496	0.588
30	375	7.798	8.396	0.598
30	445	7.892	8.490	0.598
30	103	7.897	8.531	0.634
35	119	7.801	8.405	0.604
35	90	7.923	8.539	0.616
35	297	7.884	8.506	0.622
35	594	7.841	8.479	0.638
35	586	7.785	8.414	0.629
50	152	7.867	8.484	0.617
50	359	7.837	8.508	0.671
50	126	7.864	8.491	0.627
50	883	7.793	8.473	0.680
50	117	7.885	8.466	0.581
55	301	7.895	8.496	0.601
55	593	7.815	8.456	0.641
55	374	7.820	8.423	0.603
55	650	7.762	8.434	0.672
55	324	7.868	8.462	0.594
100	562	7.883	8.544	0.661
100	753	7.978	8.568	0.590
100	547	7.991	8.587	0.596
100	724	7.825	8.504	0.679
100	534	7.953	8.571	0.618
105	265	7.808	8.478	0.670
105	482	7.869	8.508	0.639
105	372	7.879	8.423	0.544
105	308	7.893	8.545	0.652
105	438	7.932	8.526	0.594
	Max	7.991	8.587	0.680
	Average	7.872	8.480	0.608
	Min	7.762	8.376	0.498
	Std Dev	0.049	0.052	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	8	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	8.376	8.405	8.415	8.428	8.417	8.396	8.405	8.466	8.423	8.504	8.423
Average	8.390	8.479	8.461	8.483	8.486	8.484	8.469	8.484	8.454	8.555	8.496
Max	8.418	8.533	8.544	8.560	8.532	8.531	8.539	8.508	8.496	8.587	8.545
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

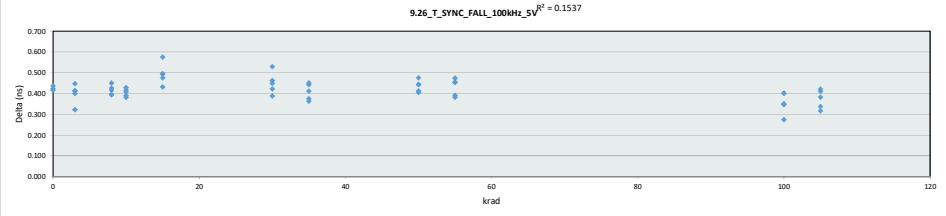


HDR TID Report
TPS7H5003-SP QMLP

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

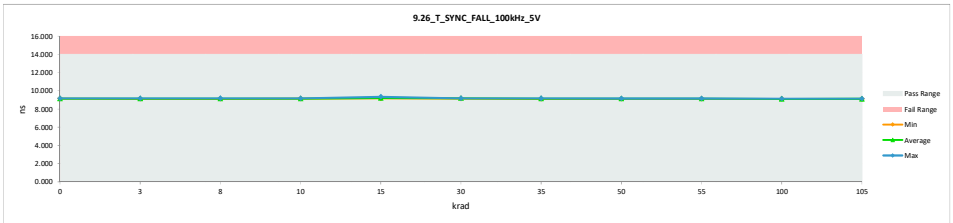
	9.26_T_SYNC_FALL_100kHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.750	9.166	0.416
0	236	8.683	9.119	0.436
0	563	8.710	9.132	0.422
3	717	8.719	9.118	0.399
3	685	8.689	9.136	0.447
3	360	8.721	9.132	0.411
3	427	8.808	9.130	0.322
3	785	8.745	9.159	0.414
8	770	8.703	9.129	0.426
8	331	8.758	9.152	0.394
8	279	8.728	9.178	0.450
8	694	8.693	9.109	0.416
8	337	8.757	9.152	0.395
10	498	8.740	9.121	0.381
10	139	8.720	9.137	0.417
10	632	8.761	9.151	0.390
10	465	8.718	9.125	0.407
10	500	8.734	9.162	0.428
15	209	8.753	9.328	0.575
15	720	8.711	9.186	0.475
15	327	8.741	9.235	0.494
15	700	8.765	9.196	0.431
15	851	8.660	9.155	0.495
30	571	8.717	9.139	0.422
30	172	8.708	9.157	0.449
30	375	8.686	9.148	0.462
30	445	8.795	9.183	0.388
30	103	8.652	9.181	0.529
35	119	8.752	9.163	0.411
35	90	8.765	9.128	0.363
35	297	8.686	9.137	0.451
35	594	8.743	9.118	0.375
35	586	8.719	9.161	0.442
50	152	8.692	9.135	0.443
50	359	8.701	9.114	0.413
50	126	8.679	9.154	0.475
50	883	8.687	9.130	0.443
50	117	8.733	9.138	0.405
55	301	8.696	9.150	0.454
55	593	8.662	9.116	0.454
55	374	8.757	9.148	0.391
55	650	8.669	9.143	0.474
55	324	8.753	9.135	0.382
100	562	8.711	9.112	0.401
100	753	8.728	9.129	0.401
100	547	8.768	9.115	0.347
100	724	8.768	9.118	0.350
100	534	8.832	9.106	0.274
105	265	8.713	9.123	0.410
105	482	8.726	9.108	0.382
105	372	8.793	9.109	0.316
105	308	8.669	9.090	0.421
105	438	8.792	9.129	0.337
	Max	8.832	9.328	0.575
	Average	8.727	9.144	0.417
	Min	8.652	9.090	0.274
	Std Dev	0.040	0.037	0.052



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

krad	0	3	8	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	9.119	9.118	9.109	9.121	9.155	9.139	9.118	9.114	9.116	9.106	9.090
Average	9.139	9.135	9.144	9.139	9.220	9.162	9.141	9.134	9.138	9.116	9.112
Max	9.166	9.159	9.178	9.162	9.328	9.183	9.163	9.154	9.150	9.129	9.129
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

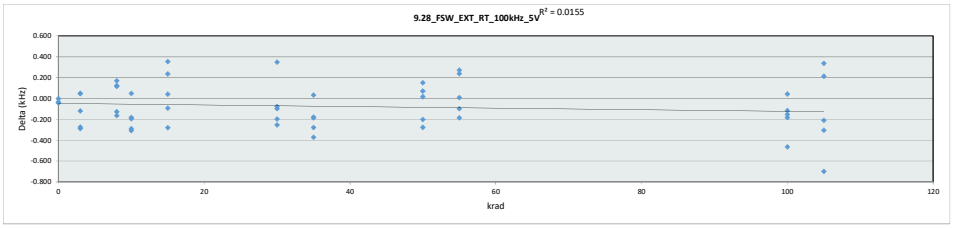


HDR TID Report
TPS7H5003-SP QMLP

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

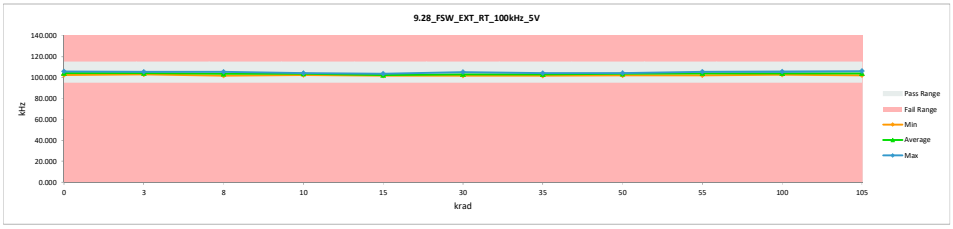
	9.28_FSW_EXT_RT_100kHz_5V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	105.970	105.927	-0.043
0	236	104.145	104.112	-0.033
0	563	102.544	102.542	-0.002
3	717	103.744	103.789	0.045
3	685	103.725	103.435	-0.290
3	360	103.143	103.192	0.049
3	427	105.576	105.455	-0.121
3	785	105.635	105.360	-0.275
8	770	102.765	102.934	0.169
8	331	105.292	105.416	0.124
8	279	105.102	104.937	-0.165
8	694	103.157	103.272	0.115
8	337	102.096	101.968	-0.128
10	498	102.428	102.476	0.048
10	139	104.402	104.219	-0.183
10	632	103.705	103.511	-0.194
10	465	104.572	104.264	-0.308
10	500	104.381	104.091	-0.290
15	209	102.089	101.996	-0.093
15	720	103.602	103.643	0.041
15	327	101.685	101.920	0.235
15	700	101.465	101.818	0.353
15	851	103.570	103.289	-0.281
30	571	102.740	103.087	0.347
30	172	103.513	103.258	-0.255
30	375	102.497	102.299	-0.198
30	445	105.262	105.184	-0.078
30	103	101.928	101.829	-0.099
35	119	102.123	101.750	-0.373
35	90	103.003	102.723	-0.280
35	297	104.234	104.266	0.032
35	594	102.983	102.797	-0.186
35	586	104.407	104.227	-0.180
50	152	104.134	103.857	-0.277
50	359	102.280	102.078	-0.202
50	126	103.708	103.724	0.016
50	883	103.859	104.009	0.150
50	117	104.236	104.306	0.070
55	301	104.255	104.156	-0.099
55	593	103.053	103.290	0.237
55	374	104.379	104.650	0.271
55	650	102.351	102.165	-0.186
55	324	105.613	105.621	0.008
100	562	103.390	103.206	-0.184
100	753	105.000	105.042	0.042
100	547	104.106	103.951	-0.155
100	724	103.265	102.800	-0.465
100	534	105.786	105.669	-0.117
105	265	103.346	102.646	-0.700
105	482	103.922	104.134	0.212
105	372	105.546	105.336	-0.210
105	308	102.642	102.336	-0.306
105	438	105.911	106.247	0.336
	Max	105.970	106.247	0.353
	Average	103.741	103.664	-0.077
	Min	101.465	101.750	-0.700
	Std Dev	1.201	1.216	0.215



	9.28_FSW_EXT_RT_100kHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	115	kHz
Min Limit	95	kHz

krad	0	3	8	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	102.542	103.192	101.968	102.476	101.818	101.829	101.750	102.078	102.165	102.800	102.336
Average	104.194	104.246	103.705	103.712	102.533	103.131	103.153	103.595	103.976	104.134	104.140
Max	105.927	105.455	105.416	104.264	103.643	105.184	104.266	104.306	105.621	105.669	106.247
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

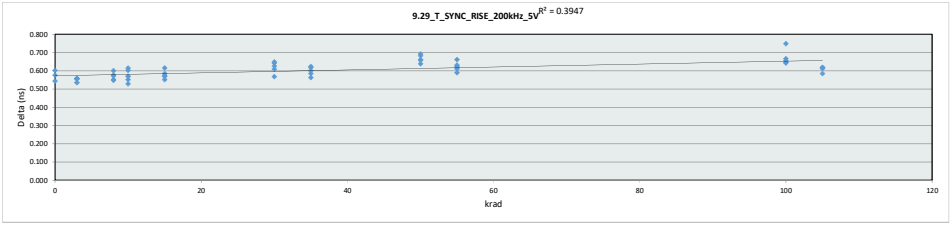


HDR TID Report
TPS7H5003-SP QMLP

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

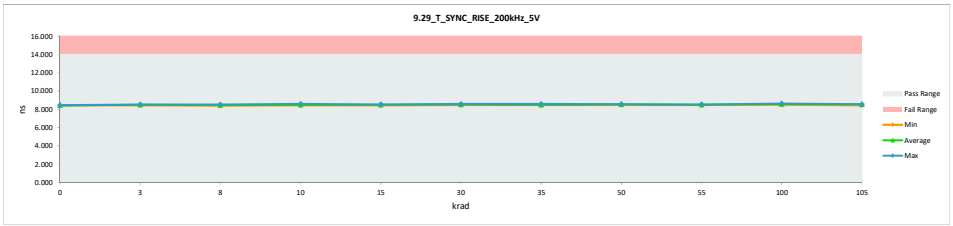
	9.29_T_SYNC_RISE_200kHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.840	8.415	0.575
0	236	7.830	8.432	0.602
0	563	7.885	8.428	0.543
3	717	7.981	8.515	0.534
3	685	7.923	8.479	0.556
3	360	7.912	8.469	0.557
3	427	7.876	8.430	0.554
3	785	7.926	8.484	0.558
8	770	7.902	8.450	0.548
8	331	7.866	8.442	0.576
8	279	7.845	8.396	0.551
8	694	7.945	8.516	0.571
8	337	7.830	8.430	0.600
10	498	7.992	8.520	0.528
10	139	7.882	8.433	0.551
10	632	7.848	8.450	0.602
10	465	7.861	8.430	0.569
10	500	7.965	8.579	0.614
15	209	7.948	8.532	0.584
15	720	7.903	8.475	0.572
15	327	7.941	8.492	0.551
15	700	7.918	8.487	0.569
15	851	7.815	8.430	0.615
30	571	7.937	8.504	0.567
30	172	7.911	8.519	0.608
30	375	7.803	8.444	0.641
30	445	7.866	8.491	0.625
30	103	7.923	8.571	0.648
35	119	7.837	8.437	0.600
35	90	7.949	8.566	0.617
35	297	7.938	8.522	0.584
35	594	7.874	8.436	0.562
35	586	7.843	8.466	0.623
50	152	7.853	8.511	0.658
50	359	7.885	8.523	0.638
50	126	7.880	8.562	0.682
50	883	7.812	8.472	0.660
50	117	7.846	8.537	0.691
55	301	7.917	8.538	0.621
55	593	7.891	8.480	0.589
55	374	7.821	8.451	0.630
55	650	7.805	8.466	0.661
55	324	7.840	8.450	0.610
100	562	7.888	8.531	0.643
100	753	7.869	8.617	0.748
100	547	7.915	8.558	0.643
100	724	7.842	8.497	0.655
100	534	7.920	8.585	0.665
105	265	7.864	8.482	0.618
105	482	7.937	8.521	0.584
105	372	7.815	8.428	0.613
105	308	7.934	8.550	0.616
105	438	7.934	8.549	0.615
	Max	7.992	8.617	0.748
	Average	7.886	8.490	0.604
	Min	7.803	8.396	0.528
	Std Dev	0.048	0.052	0.045



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

krad	0	3	8	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	8.415	8.430	8.396	8.430	8.430	8.444	8.436	8.472	8.450	8.497	8.428
Average	8.425	8.475	8.447	8.482	8.483	8.506	8.485	8.521	8.477	8.558	8.506
Max	8.432	8.515	8.516	8.579	8.532	8.571	8.566	8.562	8.538	8.617	8.550
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

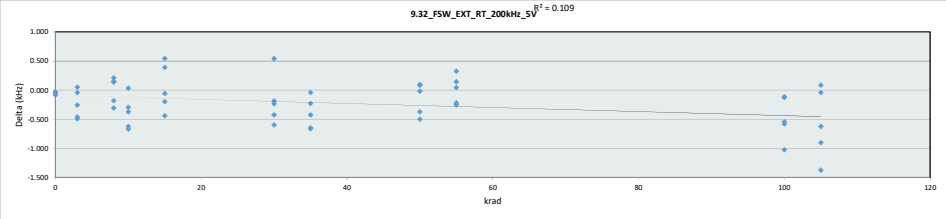


HDR TID Report
TPS7H5003-SP QMLP

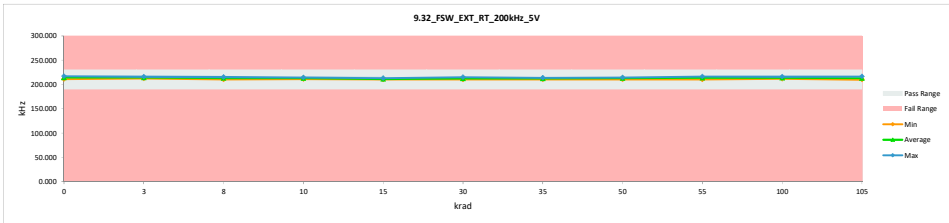
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

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

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	216.858	216.829	-0.029
0	236	214.206	214.120	-0.086
0	563	211.095	211.046	-0.049
3	717	213.365	213.322	-0.043
3	685	212.864	212.371	-0.493
3	360	212.158	212.207	0.049
3	427	215.987	215.729	-0.258
3	785	216.343	215.881	-0.462
8	770	211.490	211.701	0.211
8	331	215.029	215.166	0.137
8	279	214.927	214.619	-0.308
8	694	212.505	212.658	0.153
8	337	210.292	210.110	-0.182
10	498	210.898	210.929	0.031
10	139	213.802	213.428	-0.374
10	632	213.070	212.774	-0.296
10	465	214.763	214.093	-0.670
10	500	214.112	213.487	-0.625
15	209	210.564	210.366	-0.198
15	720	212.624	212.565	-0.059
15	327	209.838	210.228	0.390
15	700	209.481	210.025	0.544
15	851	213.234	212.791	-0.443
30	571	211.640	212.180	0.540
30	172	212.858	212.259	-0.599
30	375	211.330	210.904	-0.426
30	445	215.053	214.819	-0.234
30	103	210.263	210.077	-0.186
35	119	210.937	210.273	-0.664
35	90	211.526	210.879	-0.647
35	297	213.415	213.374	-0.041
35	594	212.015	211.588	-0.427
35	586	214.024	213.794	-0.230
50	152	213.944	213.444	-0.500
50	359	210.714	210.340	-0.374
50	126	213.065	213.046	-0.019
50	883	213.390	213.481	0.091
50	117	214.048	214.135	0.087
55	301	213.483	213.263	-0.220
55	593	211.744	212.068	0.324
55	374	214.983	215.124	0.141
55	650	210.413	210.160	-0.253
55	324	216.116	216.158	0.042
100	562	212.886	212.305	-0.581
100	753	214.612	214.498	-0.114
100	547	213.671	213.126	-0.545
100	724	212.609	211.583	-1.026
100	534	216.149	216.021	-0.128
105	265	212.274	210.898	-1.376
105	482	212.788	212.746	-0.042
105	372	215.678	215.053	-0.625
105	308	210.891	209.986	-0.905
105	438	216.276	216.360	0.084
	Max	216.858	216.829	0.544
	Average	213.062	212.837	-0.225
	Min	209.481	209.986	-1.376
	Std Dev	1.896	1.910	0.375



	9.32_FSW_EXT_RT_200kHz_5V										
Test Site											
Tester											
Test Number											
Max Limit	230	kHz									
Min Limit	190	kHz									
krad	0	3	8	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	211.046	212.207	210.110	210.929	210.025	210.077	210.273	210.340	210.160	211.583	209.986
Average	213.998	213.902	212.851	212.942	211.195	212.048	211.982	212.889	213.355	213.507	213.009
Max	216.829	215.881	215.166	214.093	212.791	214.819	213.794	214.135	216.158	216.021	216.360
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

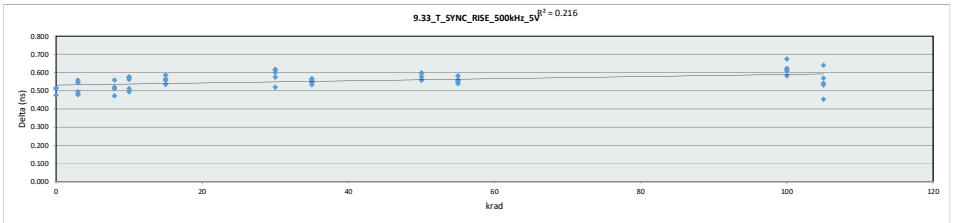


HDR TID Report
TPS7H5003-SP QMLP

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

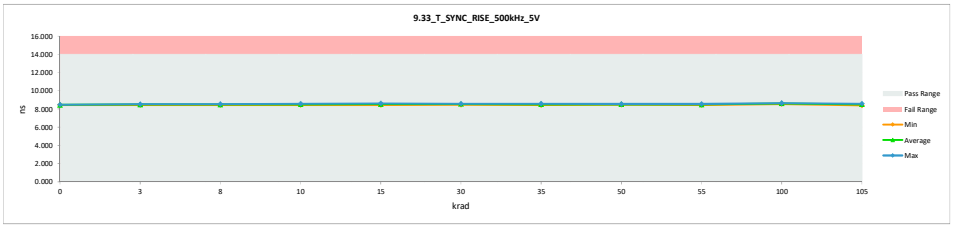
	9.33_T_SYNC_RISE_500kHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.914	8.429	0.515
0	236	7.962	8.475	0.513
0	563	7.973	8.448	0.475
3	717	7.980	8.525	0.545
3	685	7.996	8.489	0.493
3	360	7.935	8.493	0.558
3	427	7.952	8.430	0.478
3	785	8.015	8.496	0.481
8	770	8.001	8.518	0.517
8	331	7.989	8.500	0.511
8	279	7.883	8.441	0.558
8	694	8.019	8.537	0.518
8	337	7.964	8.435	0.471
10	498	7.985	8.546	0.561
10	139	7.982	8.476	0.494
10	632	7.857	8.432	0.575
10	465	7.947	8.458	0.511
10	500	8.006	8.579	0.573
15	209	8.026	8.611	0.585
15	720	8.002	8.536	0.534
15	327	7.946	8.505	0.559
15	700	7.960	8.517	0.557
15	851	7.870	8.434	0.564
30	571	8.000	8.519	0.519
30	172	7.946	8.560	0.614
30	375	7.887	8.461	0.574
30	445	7.960	8.560	0.600
30	103	7.967	8.583	0.616
35	119	7.896	8.442	0.546
35	90	8.036	8.582	0.546
35	297	7.998	8.557	0.559
35	594	7.926	8.492	0.566
35	586	7.903	8.435	0.532
50	152	7.936	8.513	0.577
50	359	7.980	8.539	0.559
50	126	7.987	8.545	0.558
50	883	7.861	8.457	0.596
50	117	7.914	8.512	0.598
55	301	8.005	8.556	0.551
55	593	7.960	8.517	0.557
55	374	7.897	8.435	0.538
55	650	7.877	8.436	0.559
55	324	7.888	8.469	0.581
100	562	7.980	8.562	0.582
100	753	7.989	8.605	0.616
100	547	8.027	8.634	0.607
100	724	7.877	8.551	0.674
100	534	8.013	8.636	0.623
105	265	7.961	8.501	0.540
105	482	7.959	8.490	0.531
105	372	7.933	8.385	0.452
105	308	7.937	8.576	0.639
105	438	7.995	8.563	0.568
	Max	8.036	8.636	0.674
	Average	7.956	8.509	0.553
	Min	7.857	8.385	0.452
	Std Dev	0.048	0.059	0.045



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

krad	0	3	8	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	8.429	8.430	8.435	8.432	8.434	8.461	8.435	8.457	8.435	8.551	8.385
Average	8.451	8.487	8.486	8.498	8.521	8.537	8.502	8.513	8.483	8.598	8.503
Max	8.475	8.525	8.537	8.579	8.611	8.583	8.582	8.545	8.556	8.636	8.576
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

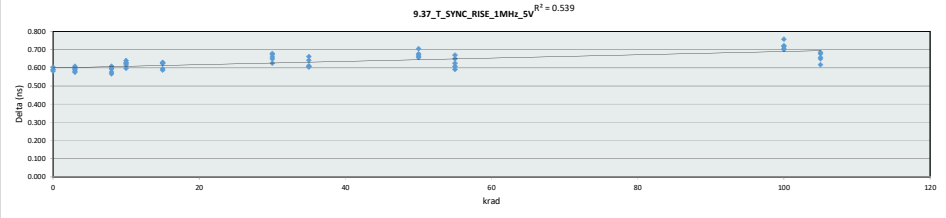


HDR TID Report
TPS7H5003-SP QMLP

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

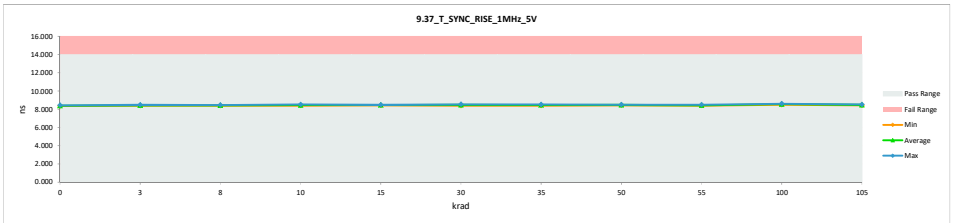
	9.37_T_SYNC_RISE_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.760	8.349	0.589
0	236	7.805	8.387	0.582
0	563	7.832	8.435	0.603
3	717	7.880	8.473	0.593
3	685	7.873	8.481	0.608
3	360	7.828	8.421	0.593
3	427	7.809	8.384	0.575
3	785	7.857	8.439	0.582
8	770	7.861	8.460	0.599
8	331	7.840	8.433	0.593
8	279	7.780	8.388	0.608
8	694	7.885	8.461	0.576
8	337	7.832	8.398	0.566
10	498	7.887	8.516	0.629
10	139	7.835	8.475	0.640
10	632	7.799	8.396	0.597
10	465	7.792	8.407	0.615
10	500	7.882	8.505	0.623
15	209	7.863	8.450	0.587
15	720	7.869	8.463	0.594
15	327	7.853	8.477	0.624
15	700	7.852	8.478	0.626
15	851	7.780	8.409	0.629
30	571	7.848	8.496	0.648
30	172	7.857	8.516	0.659
30	375	7.762	8.387	0.625
30	445	7.804	8.482	0.678
30	103	7.865	8.538	0.673
35	119	7.755	8.396	0.641
35	90	7.862	8.523	0.661
35	297	7.869	8.477	0.608
35	594	7.836	8.446	0.610
35	586	7.791	8.395	0.604
50	152	7.777	8.481	0.704
50	359	7.852	8.508	0.656
50	126	7.840	8.510	0.670
50	883	7.783	8.444	0.661
50	117	7.796	8.472	0.676
55	301	7.888	8.496	0.608
55	593	7.815	8.440	0.625
55	374	7.768	8.417	0.649
55	650	7.758	8.427	0.669
55	324	7.806	8.397	0.591
100	562	7.800	8.557	0.757
100	753	7.847	8.563	0.716
100	547	7.884	8.605	0.721
100	724	7.796	8.499	0.703
100	534	7.848	8.549	0.701
105	265	7.837	8.453	0.616
105	482	7.808	8.492	0.684
105	372	7.780	8.436	0.656
105	308	7.854	8.503	0.649
105	438	7.847	8.524	0.677
	Max	7.888	8.605	0.757
	Average	7.828	8.463	0.634
	Min	7.755	8.349	0.566
	Std Dev	0.039	0.054	0.043



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

krad	0	3	8	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	8.349	8.384	8.388	8.396	8.409	8.387	8.395	8.444	8.397	8.499	8.436
Average	8.390	8.440	8.428	8.460	8.455	8.484	8.447	8.483	8.435	8.555	8.482
Max	8.435	8.481	8.461	8.516	8.478	8.538	8.523	8.510	8.496	8.605	8.524
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

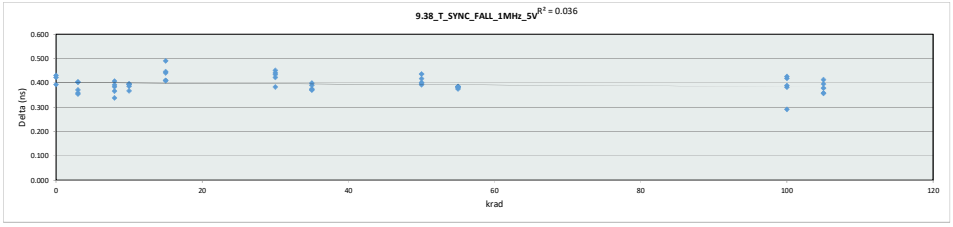


HDR TID Report
TPS7H5003-SP QMLP

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

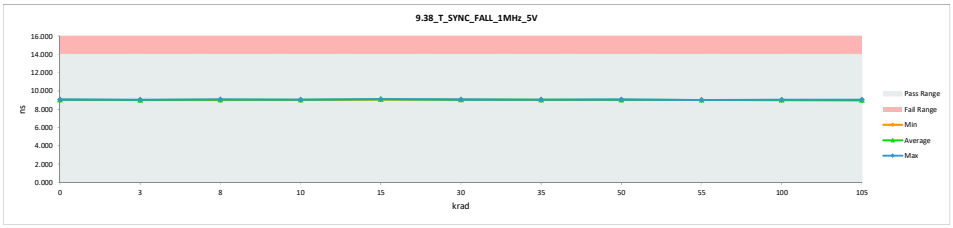
	9.38_T_SYNC_FALL_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.618	9.040	0.422
0	236	8.624	9.017	0.393
0	563	8.629	9.060	0.431
3	717	8.662	9.020	0.358
3	685	8.639	9.043	0.404
3	360	8.624	9.026	0.402
3	427	8.674	9.028	0.354
3	785	8.646	9.017	0.371
8	770	8.653	9.037	0.384
8	331	8.632	9.024	0.392
8	279	8.681	9.019	0.338
8	694	8.650	9.016	0.366
8	337	8.665	9.072	0.407
10	498	8.650	9.044	0.394
10	139	8.658	9.044	0.386
10	632	8.640	9.007	0.367
10	465	8.631	9.024	0.393
10	500	8.656	9.052	0.396
15	209	8.656	9.066	0.410
15	720	8.659	9.068	0.409
15	327	8.656	9.102	0.446
15	700	8.663	9.104	0.441
15	851	8.559	9.049	0.490
30	571	8.649	9.032	0.383
30	172	8.613	9.035	0.422
30	375	8.617	9.058	0.441
30	445	8.599	9.050	0.451
30	103	8.607	9.041	0.434
35	119	8.658	9.029	0.371
35	90	8.649	9.024	0.375
35	297	8.651	9.041	0.390
35	594	8.656	9.027	0.371
35	586	8.644	9.043	0.399
50	152	8.620	9.056	0.436
50	359	8.601	9.002	0.401
50	126	8.629	9.021	0.392
50	883	8.619	9.036	0.417
50	117	8.640	9.039	0.399
55	301	8.631	9.011	0.380
55	593	8.618	9.001	0.383
55	374	8.636	9.021	0.385
55	650	8.624	9.009	0.385
55	324	8.638	9.013	0.375
100	562	8.607	9.025	0.418
100	753	8.622	9.011	0.389
100	547	8.606	9.032	0.426
100	724	8.642	9.024	0.382
100	534	8.682	8.973	0.291
105	265	8.610	8.968	0.358
105	482	8.633	8.990	0.357
105	372	8.633	9.046	0.413
105	308	8.587	8.965	0.378
105	438	8.615	9.010	0.395
	Max	8.682	9.104	0.490
	Average	8.635	9.030	0.395
	Min	8.559	8.965	0.291
	Std Dev	0.024	0.027	0.032



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

krad	0	3	8	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	9.017	9.017	9.016	9.007	9.049	9.032	9.024	9.002	9.001	8.973	8.965
Average	9.039	9.027	9.034	9.034	9.078	9.043	9.033	9.031	9.011	9.013	8.996
Max	9.060	9.043	9.072	9.052	9.104	9.058	9.043	9.056	9.021	9.032	9.046
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

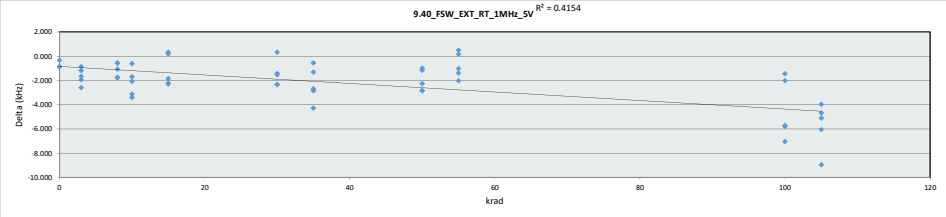


HDR TID Report
TPS7H5003-SP QMLP

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

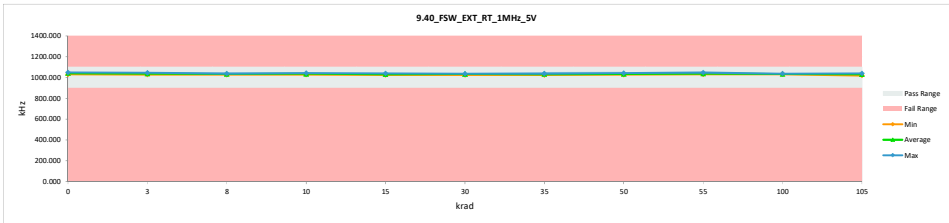
	9.40_FSW_EXT_RT_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1048.471	1048.139	-0.332
0	236	1045.417	1044.535	-0.882
0	563	1031.048	1030.180	-0.868
3	717	1036.525	1035.649	-0.876
3	685	1031.791	1029.193	-2.598
3	360	1033.751	1032.563	-1.188
3	427	1046.695	1045.031	-1.664
3	785	1045.939	1043.989	-1.950
8	770	1031.260	1030.183	-1.077
8	331	1038.737	1038.162	-0.575
8	279	1039.032	1037.250	-1.782
8	694	1037.580	1037.007	-0.573
8	337	1028.629	1026.887	-1.742
10	498	1030.144	1029.510	-0.634
10	139	1033.610	1031.910	-1.700
10	632	1040.944	1038.858	-2.086
10	465	1046.369	1042.944	-3.425
10	500	1037.191	1034.053	-3.138
15	209	1031.802	1029.939	-1.863
15	720	1031.391	1029.089	-2.302
15	327	1029.602	1029.931	0.329
15	700	1023.956	1024.140	0.184
15	851	1040.998	1038.779	-2.219
30	571	1035.779	1036.094	0.315
30	172	1037.339	1035.008	-2.331
30	375	1034.965	1033.540	-1.425
30	445	1036.028	1033.685	-2.343
30	103	1027.213	1025.663	-1.550
35	119	1037.926	1035.071	-2.855
35	90	1028.435	1024.141	-4.294
35	297	1030.414	1029.096	-1.318
35	594	1033.226	1030.530	-2.696
35	586	1038.831	1038.275	-0.556
50	152	1041.117	1038.271	-2.846
50	359	1028.581	1026.316	-2.265
50	126	1037.010	1035.848	-1.162
50	883	1036.643	1033.798	-2.845
50	117	1042.649	1041.660	-0.989
55	301	1034.545	1033.141	-1.404
55	593	1032.675	1033.154	0.479
55	374	1046.899	1045.867	-1.032
55	650	1031.953	1029.920	-2.033
55	324	1047.105	1047.255	0.150
100	562	1038.341	1031.301	-7.040
100	753	1038.127	1036.105	-2.022
100	547	1037.198	1031.393	-5.805
100	724	1036.561	1030.854	-5.707
100	534	1038.875	1037.417	-1.458
105	265	1036.102	1030.044	-6.058
105	482	1032.143	1027.454	-4.689
105	372	1042.864	1038.882	-3.982
105	308	1028.789	1019.835	-8.954
105	438	1042.400	1037.290	-5.110
	Max	1048.471	1048.139	0.479
	Average	1036.446	1034.242	-2.204
	Min	1023.956	1019.835	-8.954
	Std Dev	5.843	6.225	1.942



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

krad	0	3	8	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	1030.180	1029.193	1026.887	1029.510	1024.140	1025.663	1024.141	1026.316	1029.920	1030.854	1019.835
Average	1040.951	1037.285	1033.898	1035.455	1030.376	1032.798	1031.423	1035.179	1037.867	1033.414	1030.701
Max	1048.139	1045.031	1038.162	1042.944	1038.779	1036.094	1038.275	1041.660	1047.255	1037.417	1038.882
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

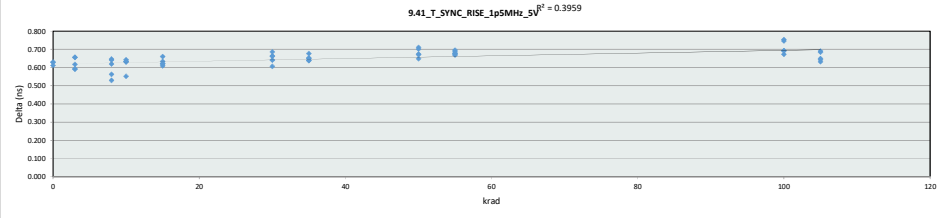


HDR TID Report
TPS7H5003-SP QMLP

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

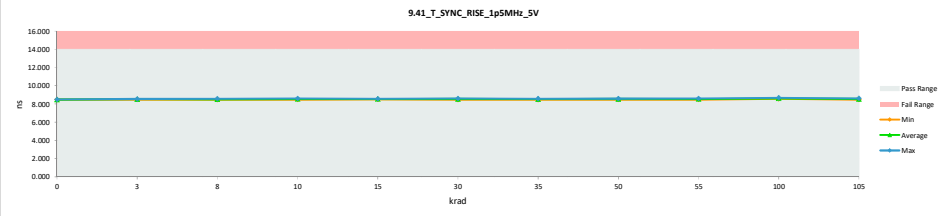
	9.41_T_SYNC_RISE_1p5MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.849	8.479	0.630
0	236	7.856	8.483	0.627
0	563	7.883	8.494	0.611
3	717	7.932	8.524	0.592
3	685	7.891	8.547	0.656
3	360	7.899	8.490	0.591
3	427	7.872	8.527	0.655
3	785	7.935	8.552	0.617
8	770	7.977	8.506	0.529
8	331	7.895	8.541	0.646
8	279	7.855	8.474	0.619
8	694	7.929	8.570	0.641
8	337	7.907	8.469	0.562
10	498	7.951	8.585	0.634
10	139	7.928	8.479	0.551
10	632	7.859	8.491	0.632
10	465	7.885	8.515	0.630
10	500	7.957	8.599	0.642
15	209	7.934	8.567	0.633
15	720	7.921	8.530	0.609
15	327	7.918	8.538	0.620
15	700	7.904	8.525	0.621
15	851	7.841	8.501	0.660
30	571	7.924	8.564	0.640
30	172	7.904	8.589	0.685
30	375	7.812	8.475	0.663
30	445	7.897	8.503	0.606
30	103	7.939	8.601	0.662
35	119	7.834	8.473	0.639
35	90	7.927	8.578	0.651
35	297	7.929	8.581	0.652
35	594	7.838	8.514	0.676
35	586	7.863	8.500	0.637
50	152	7.858	8.568	0.710
50	359	7.918	8.566	0.648
50	126	7.911	8.584	0.673
50	883	7.809	8.480	0.671
50	117	7.874	8.575	0.701
55	301	7.917	8.602	0.685
55	593	7.870	8.565	0.695
55	374	7.803	8.479	0.676
55	650	7.838	8.506	0.668
55	324	7.863	8.537	0.674
100	562	7.887	8.559	0.672
100	753	7.920	8.612	0.692
100	547	7.937	8.683	0.746
100	724	7.837	8.590	0.753
100	534	7.939	8.630	0.691
105	265	7.887	8.536	0.649
105	482	7.845	8.535	0.690
105	372	7.846	8.489	0.643
105	308	7.938	8.569	0.631
105	438	7.927	8.611	0.684
	Max	7.977	8.683	0.753
	Average	7.892	8.540	0.649
	Min	7.803	8.469	0.529
	Std Dev	0.042	0.049	0.042



	9.41_T_SYNC_RISE_1p5MHz_5	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.490	8.469	8.479	8.501	8.475	8.473	8.480	8.479	8.559	8.489
Average	8.485	8.528	8.512	8.534	8.532	8.546	8.529	8.555	8.538	8.615	8.548
Max	8.494	8.552	8.570	8.599	8.567	8.601	8.581	8.584	8.602	8.683	8.611
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

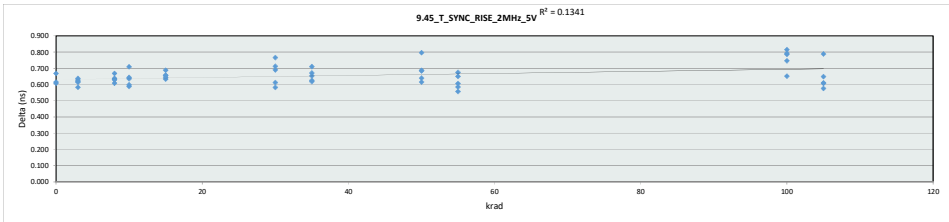


HDR TID Report
TPS7H5003-SP QMLP

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

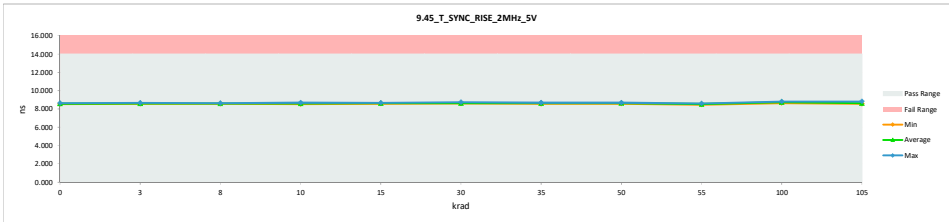
	9.45_T_SYNC_RISE_2MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.975	8.583	0.608
0	236	7.958	8.626	0.668
0	563	7.930	8.545	0.615
3	717	8.011	8.630	0.619
3	685	7.991	8.618	0.627
3	360	7.981	8.595	0.614
3	427	7.966	8.549	0.583
3	785	8.023	8.660	0.637
8	770	7.984	8.592	0.608
8	331	7.986	8.624	0.638
8	279	7.890	8.558	0.668
8	694	8.005	8.637	0.632
8	337	7.947	8.576	0.629
10	498	7.956	8.591	0.635
10	139	7.982	8.579	0.597
10	632	7.943	8.531	0.588
10	465	7.977	8.686	0.709
10	500	8.024	8.668	0.644
15	209	8.017	8.650	0.633
15	720	7.970	8.627	0.657
15	327	7.938	8.581	0.643
15	700	7.977	8.665	0.688
15	851	7.935	8.590	0.655
30	571	7.994	8.606	0.612
30	172	8.013	8.595	0.582
30	375	7.889	8.601	0.712
30	445	7.967	8.733	0.766
30	103	7.997	8.687	0.690
35	119	7.911	8.564	0.653
35	90	7.968	8.593	0.625
35	297	8.014	8.684	0.670
35	594	7.960	8.670	0.710
35	586	7.955	8.573	0.618
50	152	7.923	8.607	0.684
50	359	7.979	8.618	0.639
50	126	7.982	8.669	0.687
50	883	7.891	8.687	0.796
50	117	7.964	8.579	0.615
55	301	7.971	8.577	0.606
55	593	7.961	8.517	0.556
55	374	7.916	8.591	0.675
55	650	7.889	8.474	0.585
55	324	7.928	8.578	0.650
100	562	7.985	8.731	0.746
100	753	8.000	8.651	0.651
100	547	8.024	8.810	0.786
100	724	7.915	8.730	0.815
100	534	8.000	8.793	0.793
105	265	7.983	8.558	0.575
105	482	7.946	8.553	0.607
105	372	7.947	8.557	0.610
105	308	7.971	8.619	0.648
105	438	8.035	8.823	0.788
	Max	8.035	8.823	0.815
	Average	7.967	8.622	0.656
	Min	7.889	8.474	0.556
	Std Dev	0.037	0.071	0.062



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

krad	0	3	8	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	8.545	8.549	8.558	8.531	8.581	8.595	8.564	8.579	8.474	8.651	8.553
Average	8.585	8.610	8.597	8.611	8.623	8.644	8.617	8.632	8.547	8.743	8.622
Max	8.626	8.660	8.637	8.686	8.665	8.733	8.684	8.687	8.591	8.810	8.823
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

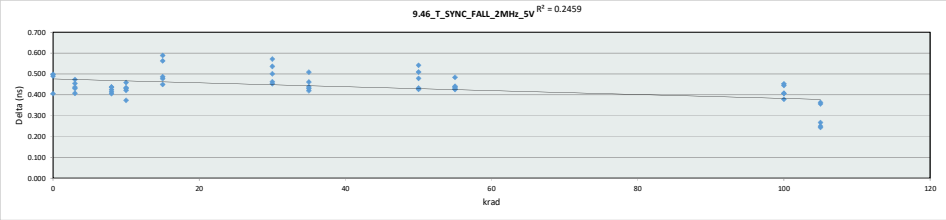


HDR TID Report
TPS7H5003-SP QMLP

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

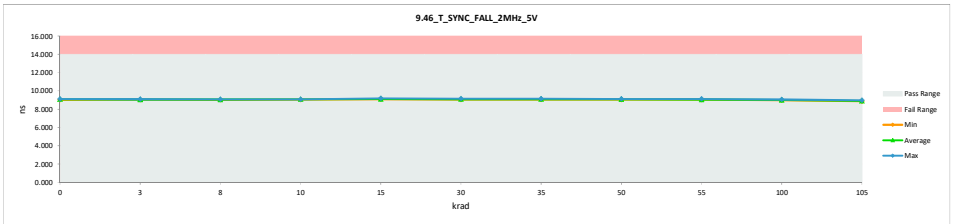
	9.46_T_SYNC_FALL_2MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.596	9.085	0.489
0	236	8.608	9.106	0.498
0	563	8.620	9.025	0.405
3	717	8.625	9.061	0.436
3	685	8.628	9.035	0.407
3	360	8.649	9.103	0.454
3	427	8.574	9.047	0.473
3	785	8.639	9.069	0.430
8	770	8.612	9.026	0.414
8	331	8.642	9.078	0.436
8	279	8.615	9.052	0.437
8	694	8.632	9.037	0.405
8	337	8.665	9.089	0.424
10	498	8.664	9.037	0.373
10	139	8.646	9.075	0.429
10	632	8.651	9.072	0.421
10	465	8.625	9.083	0.458
10	500	8.651	9.085	0.434
15	209	8.629	9.106	0.477
15	720	8.643	9.129	0.486
15	327	8.607	9.195	0.588
15	700	8.648	9.097	0.449
15	851	8.535	9.097	0.562
30	571	8.625	9.087	0.462
30	172	8.600	9.053	0.453
30	375	8.565	9.101	0.536
30	445	8.650	9.150	0.500
30	103	8.540	9.111	0.571
35	119	8.661	9.090	0.429
35	90	8.635	9.054	0.419
35	297	8.627	9.135	0.508
35	594	8.639	9.100	0.461
35	586	8.655	9.093	0.438
50	152	8.606	9.038	0.432
50	359	8.616	9.042	0.426
50	126	8.574	9.115	0.541
50	883	8.634	9.112	0.478
50	117	8.620	9.129	0.509
55	301	8.608	9.033	0.425
55	593	8.599	9.035	0.436
55	374	8.641	9.124	0.483
55	650	8.601	9.029	0.428
55	324	8.626	9.066	0.440
100	562	8.610	9.062	0.452
100	753	8.562	8.969	0.407
100	547	8.581	9.025	0.444
100	724	8.622	9.028	0.406
100	534	8.651	9.029	0.378
105	265	8.582	8.945	0.363
105	482	8.609	8.965	0.356
105	372	8.638	8.904	0.266
105	308	8.614	8.857	0.243
105	438	8.631	8.880	0.249
	Max	8.665	9.195	0.588
	Average	8.619	9.059	0.440
	Min	8.535	8.857	0.243
	Std Dev	0.030	0.064	0.068



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

krad	0	3	8	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	9.025	9.035	9.026	9.037	9.097	9.053	9.054	9.038	9.029	8.969	8.857
Average	9.072	9.063	9.056	9.070	9.125	9.100	9.094	9.087	9.057	9.023	8.910
Max	9.106	9.103	9.089	9.085	9.195	9.150	9.135	9.129	9.124	9.062	8.965
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

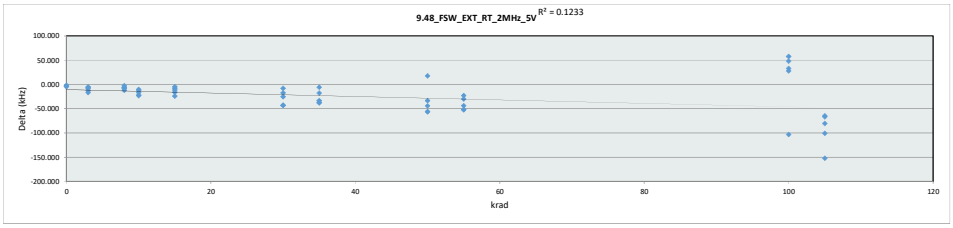


HDR TID Report
TPS7H5003-SP QMLP

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

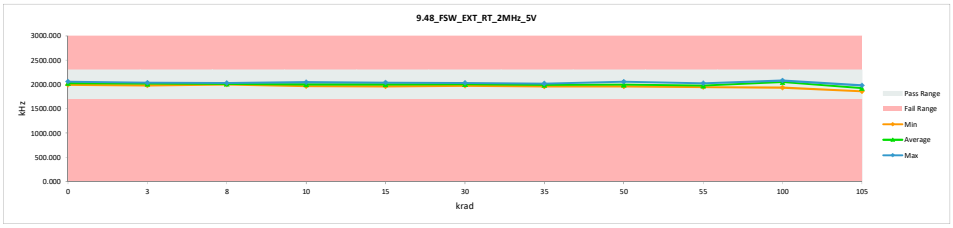
	9.48_FSW_EXT_RT_2MHz_5V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2059.413	2057.479	-1.934
0	236	2037.643	2032.783	-4.860
0	563	1995.811	1992.023	-3.788
3	717	2033.912	2028.475	-5.437
3	685	2020.162	2011.373	-8.789
3	360	2024.608	2018.365	-6.243
3	427	1993.352	1980.152	-13.200
3	785	2050.918	2033.935	-16.983
8	770	2016.724	2009.766	-6.958
8	331	2027.084	2023.983	-3.101
8	279	2037.214	2030.309	-6.905
8	694	2007.164	1999.098	-8.066
8	337	2012.160	2000.051	-12.109
10	498	1988.007	1975.485	-12.522
10	139	2022.113	2011.602	-10.511
10	632	1980.878	1963.951	-16.927
10	465	2069.561	2047.485	-22.076
10	500	2031.177	2007.795	-23.382
15	209	2013.103	1996.799	-16.304
15	720	2021.476	2013.593	-7.883
15	327	1984.839	1960.391	-24.448
15	700	2002.633	1997.614	-5.019
15	851	2050.010	2038.462	-11.548
30	571	2017.614	1974.128	-43.486
30	172	2038.797	1995.969	-42.828
30	375	2040.246	2014.726	-25.520
30	445	2039.254	2030.996	-8.258
30	103	2016.218	1998.454	-17.764
35	119	2013.075	1974.867	-38.208
35	90	1995.856	1962.349	-33.507
35	297	2015.069	1996.974	-18.095
35	594	2024.164	2018.210	-5.954
35	586	2036.821	1999.446	-37.375
50	152	2018.154	1962.012	-56.142
50	359	2011.958	1978.276	-33.682
50	126	2041.681	1997.256	-44.425
50	883	2039.312	2056.759	17.447
50	117	2040.843	1984.291	-56.552
55	301	2007.549	1955.144	-52.405
55	593	2014.579	1962.755	-51.824
55	374	2068.399	2024.328	-44.071
55	650	1969.606	1946.478	-23.128
55	324	2015.197	1985.071	-30.126
100	562	2047.039	2079.825	32.786
100	753	2036.727	1933.209	-103.518
100	547	2015.685	2073.127	57.442
100	724	2046.921	2074.523	27.602
100	534	2029.265	2077.248	47.983
105	265	2012.367	1945.648	-66.719
105	482	2016.778	1936.146	-80.632
105	372	2054.035	1901.664	-152.371
105	308	1959.202	1858.178	-101.024
105	438	2045.478	1980.419	-65.059
	Max	2069.561	2079.825	57.442
	Average	2022.790	1998.291	-24.498
	Min	1959.202	1858.178	-152.371
	Std Dev	23.241	43.396	35.701



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

krad	0	3	8	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	1992.023	1980.152	1999.098	1963.951	1960.391	1974.128	1962.349	1962.012	1946.478	1933.209	1858.178
Average	2027.428	2014.460	2012.641	2001.264	2001.372	2002.855	1990.369	1995.719	1974.755	2047.586	1924.411
Max	2057.479	2033.935	2030.309	2047.485	2038.462	2030.996	2018.210	2056.759	2024.328	2079.825	1980.419
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

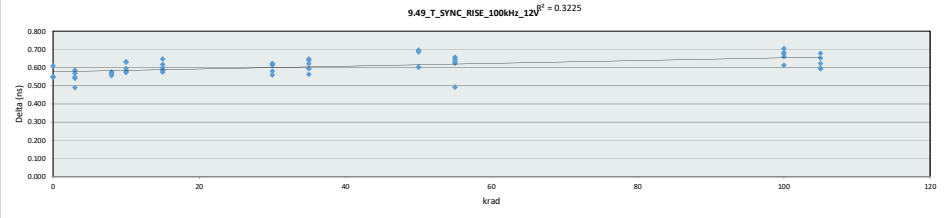


HDR TID Report
TPS7H5003-SP QMLP

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

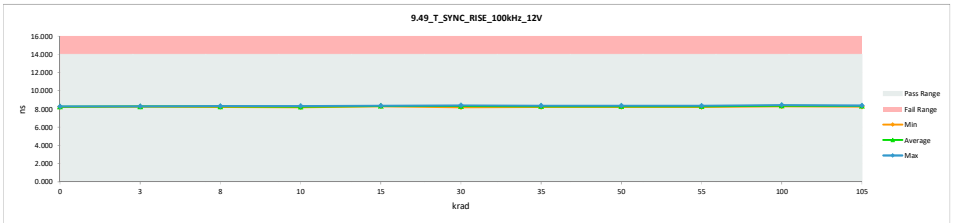
	9.49_T_SYNC_RISE_100kHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.727	8.278	0.551
0	236	7.684	8.229	0.545
0	563	7.659	8.268	0.609
3	717	7.716	8.301	0.585
3	685	7.743	8.291	0.548
3	360	7.684	8.252	0.568
3	427	7.731	8.271	0.540
3	785	7.775	8.264	0.489
8	770	7.742	8.311	0.569
8	331	7.666	8.237	0.571
8	279	7.700	8.264	0.564
8	694	7.690	8.265	0.575
8	337	7.726	8.281	0.555
10	498	7.733	8.312	0.579
10	139	7.567	8.199	0.632
10	632	7.635	8.206	0.571
10	465	7.632	8.226	0.594
10	500	7.701	8.330	0.629
15	209	7.729	8.312	0.583
15	720	7.682	8.328	0.646
15	327	7.756	8.372	0.616
15	700	7.731	8.305	0.574
15	851	7.713	8.311	0.598
30	571	7.701	8.314	0.613
30	172	7.794	8.352	0.558
30	375	7.577	8.199	0.622
30	445	7.826	8.405	0.579
30	103	7.680	8.299	0.619
35	119	7.647	8.267	0.620
35	90	7.749	8.342	0.593
35	297	7.733	8.372	0.639
35	594	7.730	8.292	0.562
35	586	7.590	8.237	0.647
50	152	7.647	8.338	0.691
50	359	7.716	8.317	0.601
50	126	7.676	8.361	0.685
50	883	7.556	8.251	0.695
50	117	7.640	8.242	0.602
55	301	7.709	8.353	0.644
55	593	7.670	8.301	0.631
55	374	7.556	8.212	0.656
55	650	7.648	8.272	0.624
55	324	7.853	8.344	0.491
100	562	7.620	8.294	0.674
100	753	7.671	8.375	0.704
100	547	7.827	8.439	0.612
100	724	7.626	8.309	0.683
100	534	7.755	8.414	0.659
105	265	7.673	8.295	0.622
105	482	7.600	8.251	0.651
105	372	7.712	8.308	0.596
105	308	7.708	8.385	0.677
105	438	7.790	8.383	0.593
	Max	7.853	8.439	0.704
	Average	7.694	8.301	0.606
	Min	7.556	8.199	0.489
	Std Dev	0.067	0.056	0.049



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

krad	0	3	8	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	8.229	8.252	8.237	8.199	8.305	8.199	8.237	8.242	8.212	8.294	8.251
Average	8.258	8.276	8.272	8.255	8.326	8.314	8.302	8.302	8.296	8.366	8.324
Max	8.278	8.301	8.311	8.330	8.372	8.405	8.372	8.361	8.353	8.439	8.385
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

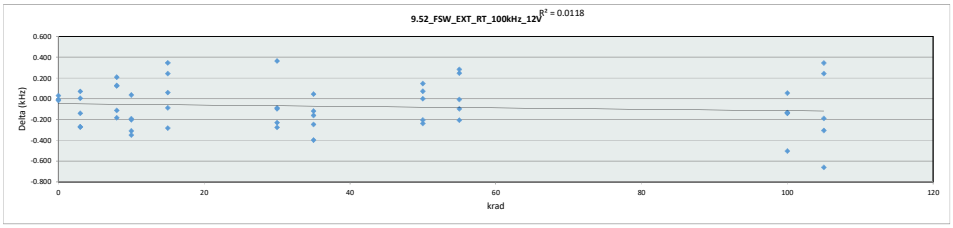


HDR TID Report
TPS7H5003-SP QMLP

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

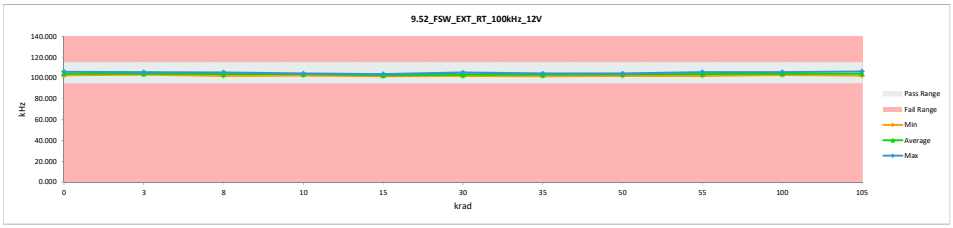
	9.52_FSW_EXT_RT_100kHz_12V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	105.942	105.971	0.029
0	236	104.159	104.151	-0.008
0	563	102.558	102.541	-0.017
3	717	103.819	103.823	0.004
3	685	103.736	103.465	-0.271
3	360	103.185	103.255	0.070
3	427	105.622	105.481	-0.141
3	785	105.629	105.356	-0.273
8	770	102.766	102.973	0.207
8	331	105.321	105.448	0.127
8	279	105.156	104.972	-0.184
8	694	103.193	103.315	0.122
8	337	102.118	102.005	-0.113
10	498	102.436	102.472	0.036
10	139	104.472	104.279	-0.193
10	632	103.727	103.524	-0.203
10	465	104.598	104.288	-0.310
10	500	104.440	104.090	-0.350
15	209	102.119	102.031	-0.088
15	720	103.610	103.668	0.058
15	327	101.717	101.958	0.241
15	700	101.465	101.809	0.344
15	851	103.592	103.309	-0.283
30	571	102.764	103.126	0.362
30	172	103.542	103.266	-0.276
30	375	102.530	102.299	-0.231
30	445	105.317	105.227	-0.090
30	103	101.980	101.883	-0.097
35	119	102.169	101.771	-0.398
35	90	103.018	102.770	-0.248
35	297	104.251	104.295	0.044
35	594	103.004	102.843	-0.161
35	586	104.398	104.279	-0.119
50	152	104.122	103.883	-0.239
50	359	102.305	102.099	-0.206
50	126	103.756	103.755	-0.001
50	883	103.904	104.049	0.145
50	117	104.261	104.332	0.071
55	301	104.285	104.188	-0.097
55	593	103.073	103.318	0.245
55	374	104.401	104.683	0.282
55	650	102.372	102.165	-0.207
55	324	105.633	105.625	-0.008
100	562	103.428	103.286	-0.142
100	753	105.041	105.095	0.054
100	547	104.124	103.989	-0.135
100	724	103.322	102.818	-0.504
100	534	105.808	105.673	-0.135
105	265	103.366	102.705	-0.661
105	482	103.948	104.189	0.241
105	372	105.545	105.355	-0.190
105	308	102.671	102.365	-0.306
105	438	105.951	106.294	0.343
	Max	105.951	106.294	0.362
	Average	103.767	103.695	-0.073
	Min	101.465	101.771	-0.661
	Std Dev	1.200	1.217	0.219



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

krad	0	3	8	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	102.541	103.255	102.005	102.472	101.809	101.883	101.771	102.099	102.165	102.818	102.365
Average	104.221	104.276	103.743	103.731	102.555	103.160	103.192	103.624	103.996	104.172	104.182
Max	105.971	105.481	105.448	104.288	103.668	105.227	104.295	104.332	105.625	105.673	106.294
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

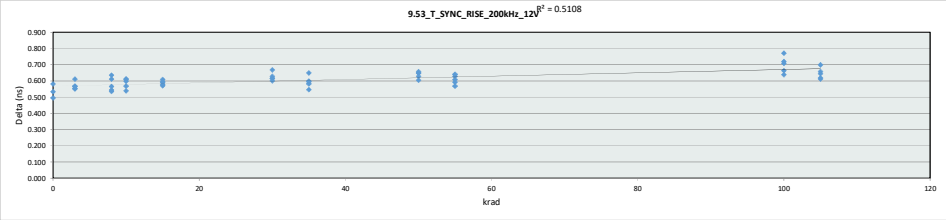


HDR TID Report
TPS7H5003-SP QMLP

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

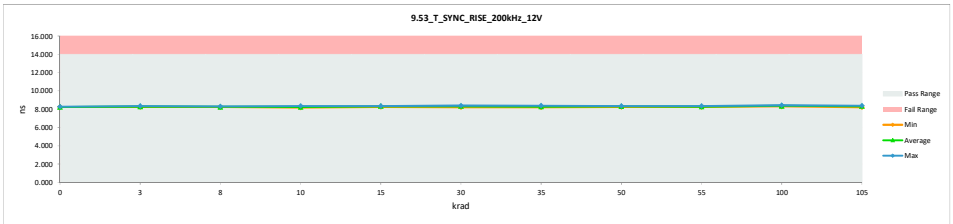
	9.53_T_SYNC_RISE_200kHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.720	8.252	0.532
0	236	7.687	8.267	0.580
0	563	7.746	8.240	0.494
3	717	7.741	8.351	0.610
3	685	7.754	8.318	0.564
3	360	7.674	8.226	0.552
3	427	7.683	8.233	0.550
3	785	7.759	8.326	0.567
8	770	7.729	8.263	0.534
8	331	7.642	8.252	0.610
8	279	7.691	8.234	0.543
8	694	7.669	8.303	0.634
8	337	7.706	8.271	0.565
10	498	7.748	8.355	0.607
10	139	7.610	8.177	0.567
10	632	7.624	8.236	0.612
10	465	7.668	8.206	0.538
10	500	7.714	8.311	0.597
15	209	7.743	8.320	0.577
15	720	7.719	8.327	0.608
15	327	7.761	8.350	0.589
15	700	7.771	8.340	0.569
15	851	7.667	8.262	0.595
30	571	7.697	8.313	0.616
30	172	7.775	8.375	0.600
30	375	7.588	8.215	0.627
30	445	7.732	8.399	0.667
30	103	7.679	8.293	0.614
35	119	7.685	8.266	0.581
35	90	7.739	8.387	0.648
35	297	7.759	8.357	0.598
35	594	7.693	8.238	0.545
35	586	7.619	8.213	0.594
50	152	7.706	8.353	0.647
50	359	7.719	8.323	0.604
50	126	7.706	8.354	0.648
50	883	7.611	8.238	0.627
50	117	7.611	8.267	0.656
55	301	7.720	8.327	0.607
55	593	7.716	8.283	0.567
55	374	7.656	8.247	0.591
55	650	7.647	8.287	0.640
55	324	7.727	8.355	0.628
100	562	7.679	8.316	0.637
100	753	7.657	8.427	0.770
100	547	7.728	8.435	0.707
100	724	7.578	8.297	0.719
100	534	7.748	8.410	0.662
105	265	7.690	8.301	0.611
105	482	7.599	8.217	0.618
105	372	7.681	8.325	0.644
105	308	7.715	8.372	0.657
105	438	7.691	8.389	0.698
	Max	7.775	8.435	0.770
	Average	7.694	8.302	0.608
	Min	7.578	8.177	0.494
	Std Dev	0.050	0.062	0.051



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

krad	0	3	8	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	8.240	8.226	8.234	8.177	8.262	8.215	8.213	8.238	8.247	8.297	8.217
Average	8.253	8.291	8.265	8.257	8.320	8.319	8.292	8.307	8.300	8.377	8.321
Max	8.267	8.351	8.303	8.355	8.350	8.399	8.387	8.354	8.355	8.435	8.389
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

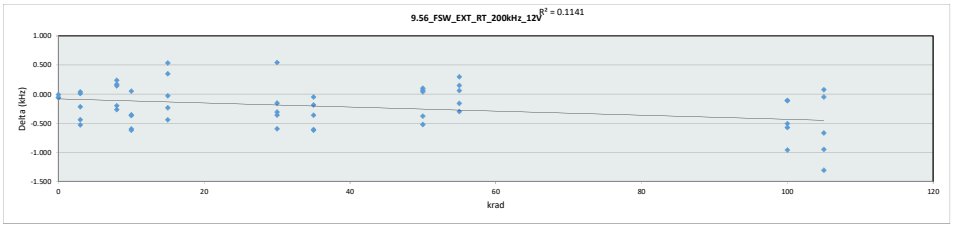


HDR TID Report
TPS7H5003-SP QMLP

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

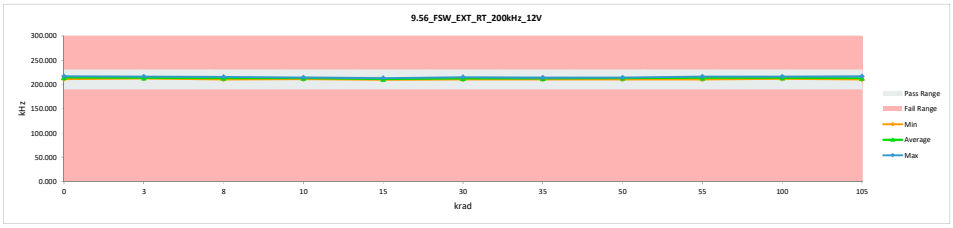
	9.56_FSW_EXT_RT_200kHz_12V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	216.916	216.906	-0.010
0	236	214.265	214.200	-0.065
0	563	211.195	211.138	-0.057
3	717	213.420	213.429	0.009
3	685	212.973	212.443	-0.530
3	360	212.262	212.298	0.036
3	427	216.047	215.827	-0.220
3	785	216.430	215.989	-0.441
8	770	211.591	211.828	0.237
8	331	215.131	215.299	0.168
8	279	214.988	214.720	-0.268
8	694	212.612	212.753	0.141
8	337	210.360	210.158	-0.202
10	498	211.005	211.055	0.050
10	139	213.971	213.601	-0.370
10	632	213.193	212.834	-0.359
10	465	214.817	214.194	-0.623
10	500	214.208	213.608	-0.600
15	209	210.679	210.443	-0.236
15	720	212.704	212.673	-0.031
15	327	209.914	210.262	0.348
15	700	209.566	210.099	0.533
15	851	213.311	212.868	-0.443
30	571	211.785	212.327	0.542
30	172	212.933	212.336	-0.597
30	375	211.413	211.052	-0.361
30	445	215.115	214.807	-0.308
30	103	210.379	210.223	-0.156
35	119	211.003	210.382	-0.621
35	90	211.639	211.029	-0.610
35	297	213.510	213.459	-0.051
35	594	212.113	211.750	-0.363
35	586	214.152	213.965	-0.187
50	152	214.054	213.530	-0.524
50	359	210.796	210.417	-0.379
50	126	213.181	213.219	0.038
50	883	213.502	213.602	0.100
50	117	214.182	214.247	0.065
55	301	213.586	213.425	-0.161
55	593	211.850	212.145	0.295
55	374	215.066	215.213	0.147
55	650	210.504	210.203	-0.301
55	324	216.134	216.194	0.060
100	562	212.964	212.456	-0.508
100	753	214.761	214.650	-0.111
100	547	213.756	213.180	-0.576
100	724	212.710	211.748	-0.962
100	534	216.236	216.122	-0.114
105	265	212.336	211.026	-1.310
105	482	212.922	212.871	-0.051
105	372	215.809	215.141	-0.668
105	308	211.013	210.062	-0.951
105	438	216.422	216.495	0.073
	Max	216.916	216.906	0.542
	Average	213.158	212.942	-0.217
	Min	209.566	210.062	-1.310
	Std Dev	1.893	1.910	0.368



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

krad	0	3	8	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	211.138	212.298	210.158	211.055	210.099	210.223	210.382	210.417	210.203	211.748	210.062
Average	214.081	213.997	212.952	213.058	211.269	212.149	212.117	213.003	213.436	213.631	213.119
Max	216.906	215.989	215.299	214.194	212.868	214.807	213.965	214.247	216.194	216.122	216.495
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

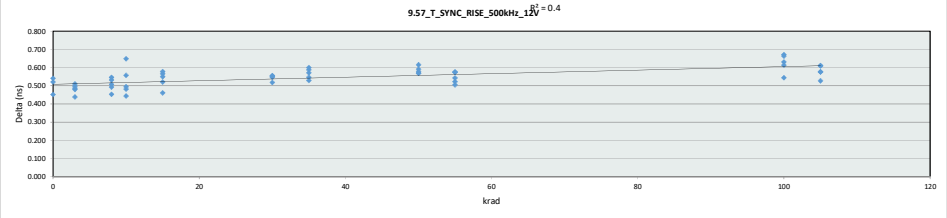


HDR TID Report
TPS7H5003-SP QMLP

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

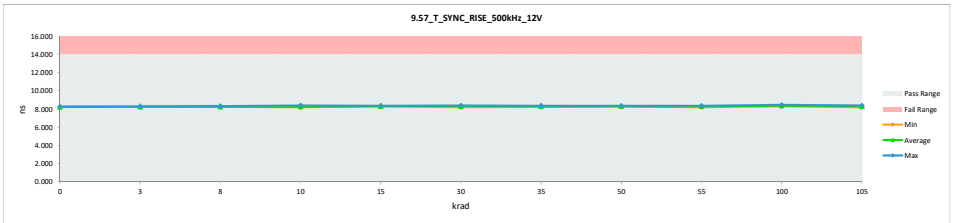
	9.57_T_SYNC_RISE_500kHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.722	8.242	0.520
0	236	7.778	8.229	0.451
0	563	7.692	8.232	0.540
3	717	7.800	8.238	0.438
3	685	7.801	8.287	0.486
3	360	7.710	8.207	0.497
3	427	7.762	8.241	0.479
3	785	7.785	8.294	0.509
8	770	7.752	8.204	0.452
8	331	7.726	8.233	0.507
8	279	7.748	8.240	0.492
8	694	7.765	8.310	0.545
8	337	7.734	8.265	0.531
10	498	7.809	8.303	0.494
10	139	7.727	8.170	0.443
10	632	7.684	8.240	0.556
10	465	7.715	8.196	0.481
10	500	7.763	8.410	0.647
15	209	7.792	8.369	0.577
15	720	7.800	8.260	0.460
15	327	7.782	8.347	0.565
15	700	7.763	8.312	0.549
15	851	7.740	8.260	0.520
30	571	7.788	8.334	0.546
30	172	7.803	8.355	0.552
30	375	7.634	8.189	0.555
30	445	7.827	8.378	0.551
30	103	7.791	8.308	0.517
35	119	7.648	8.235	0.587
35	90	7.764	8.363	0.599
35	297	7.802	8.330	0.528
35	594	7.691	8.261	0.570
35	586	7.690	8.236	0.546
50	152	7.740	8.354	0.614
50	359	7.737	8.327	0.590
50	126	7.732	8.301	0.569
50	883	7.706	8.283	0.577
50	117	7.685	8.253	0.568
55	301	7.742	8.317	0.575
55	593	7.762	8.284	0.522
55	374	7.659	8.201	0.542
55	650	7.743	8.247	0.504
55	324	7.782	8.355	0.573
100	562	7.756	8.299	0.543
100	753	7.751	8.364	0.613
100	547	7.803	8.433	0.630
100	724	7.640	8.310	0.670
100	534	7.783	8.445	0.662
105	265	7.742	8.318	0.576
105	482	7.664	8.190	0.526
105	372	7.742	8.350	0.608
105	308	7.754	8.364	0.610
105	438	7.797	8.372	0.575
	Max	7.827	8.445	0.670
	Average	7.745	8.291	0.546
	Min	7.634	8.170	0.438
	Std Dev	0.047	0.066	0.054



	9.57_T_SYNC_RISE_500kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.229	8.207	8.204	8.170	8.260	8.189	8.235	8.253	8.201	8.299	8.190
Average	8.234	8.253	8.250	8.264	8.310	8.313	8.285	8.304	8.281	8.370	8.319
Max	8.242	8.294	8.310	8.410	8.369	8.378	8.363	8.354	8.355	8.445	8.372
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

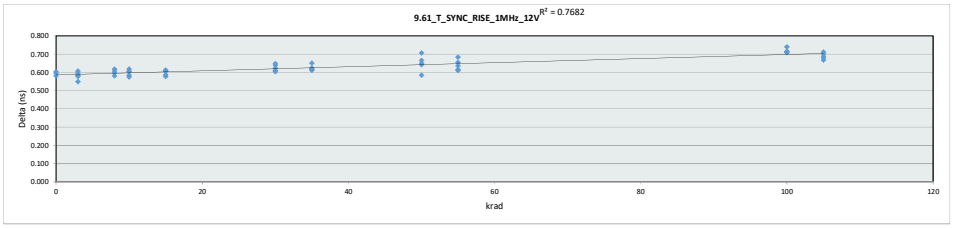


HDR TID Report
TPS7H5003-SP QMLP

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

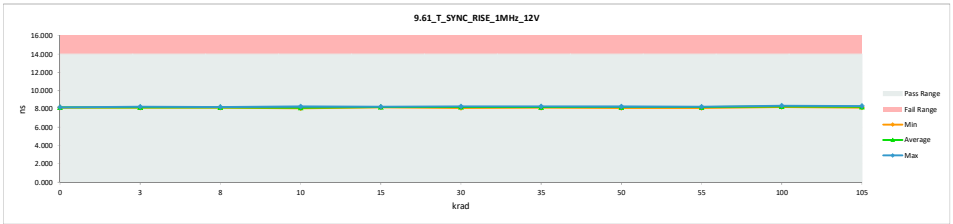
	9.61_T_SYNC_RISE_1MHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.574	8.177	0.603
0	236	7.565	8.145	0.580
0	563	7.593	8.188	0.595
3	717	7.624	8.202	0.578
3	685	7.630	8.237	0.607
3	360	7.555	8.138	0.583
3	427	7.593	8.141	0.548
3	785	7.642	8.237	0.595
8	770	7.596	8.195	0.599
8	331	7.554	8.135	0.581
8	279	7.573	8.173	0.600
8	694	7.601	8.215	0.614
8	337	7.583	8.200	0.617
10	498	7.643	8.261	0.618
10	139	7.499	8.073	0.574
10	632	7.518	8.102	0.584
10	465	7.521	8.125	0.604
10	500	7.598	8.202	0.604
15	209	7.620	8.228	0.608
15	720	7.621	8.198	0.577
15	327	7.632	8.236	0.604
15	700	7.655	8.241	0.586
15	851	7.569	8.181	0.612
30	571	7.583	8.192	0.609
30	172	7.668	8.271	0.603
30	375	7.480	8.119	0.639
30	445	7.630	8.278	0.648
30	103	7.601	8.224	0.623
35	119	7.546	8.160	0.614
35	90	7.652	8.263	0.611
35	297	7.655	8.278	0.623
35	594	7.574	8.192	0.618
35	586	7.487	8.137	0.650
50	152	7.584	8.226	0.642
50	359	7.633	8.217	0.584
50	126	7.564	8.270	0.706
50	883	7.482	8.131	0.649
50	117	7.508	8.173	0.665
55	301	7.611	8.221	0.610
55	593	7.550	8.205	0.655
55	374	7.475	8.110	0.635
55	650	7.532	8.215	0.683
55	324	7.622	8.237	0.615
100	562	7.540	8.251	0.711
100	753	7.562	8.270	0.708
100	547	7.648	8.358	0.710
100	724	7.518	8.233	0.715
100	534	7.581	8.320	0.739
105	265	7.554	8.221	0.667
105	482	7.446	8.157	0.711
105	372	7.543	8.230	0.687
105	308	7.620	8.321	0.701
105	438	7.585	8.264	0.679
	Max	7.668	8.358	0.739
	Average	7.577	8.207	0.630
	Min	7.446	8.073	0.548
	Std Dev	0.053	0.059	0.046



	9.61_T_SYNC_RISE_1MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.145	8.138	8.135	8.073	8.181	8.119	8.137	8.131	8.110	8.233	8.157
Average	8.170	8.191	8.184	8.153	8.217	8.217	8.206	8.203	8.198	8.286	8.239
Max	8.188	8.237	8.215	8.261	8.241	8.278	8.278	8.270	8.237	8.358	8.321
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

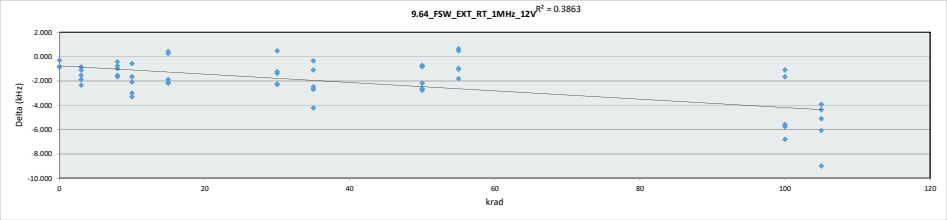


HDR TID Report
TPS7H5003-SP QMLP

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

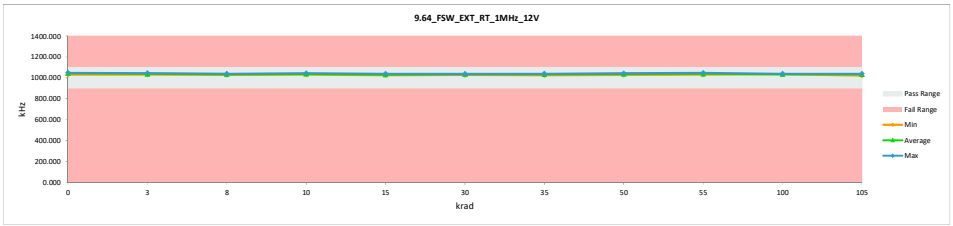
	9.64_FSW_EXT_RT_1MHz_12V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1049.870	1049.551	-0.319
0	236	1046.865	1045.996	-0.869
0	563	1032.586	1031.741	-0.845
3	717	1037.953	1037.088	-0.865
3	685	1033.129	1030.764	-2.365
3	360	1035.293	1034.163	-1.130
3	427	1048.328	1046.777	-1.551
3	785	1047.374	1045.476	-1.898
8	770	1032.618	1031.639	-0.979
8	331	1040.443	1040.014	-0.429
8	279	1040.321	1038.647	-1.674
8	694	1039.586	1038.819	-0.767
8	337	1029.898	1028.336	-1.562
10	498	1031.812	1031.220	-0.592
10	139	1035.655	1033.981	-1.674
10	632	1042.740	1040.643	-2.097
10	465	1048.138	1044.812	-3.326
10	500	1038.959	1035.948	-3.011
15	209	1033.340	1031.450	-1.890
15	720	1032.733	1030.530	-2.203
15	327	1031.086	1031.488	0.402
15	700	1025.074	1025.325	0.251
15	851	1042.395	1040.254	-2.141
30	571	1037.435	1037.900	0.465
30	172	1038.667	1036.406	-2.261
30	375	1036.579	1035.317	-1.262
30	445	1037.167	1034.853	-2.314
30	103	1028.876	1027.490	-1.386
35	119	1039.502	1036.798	-2.704
35	90	1030.091	1025.856	-4.235
35	297	1031.612	1030.507	-1.105
35	594	1034.541	1032.053	-2.488
35	586	1040.446	1040.091	-0.355
50	152	1042.577	1039.802	-2.775
50	359	1029.949	1027.752	-2.197
50	126	1038.414	1037.574	-0.840
50	883	1038.206	1035.563	-2.643
50	117	1044.382	1043.649	-0.733
55	301	1035.993	1034.950	-1.043
55	593	1034.253	1034.889	0.636
55	374	1048.586	1047.612	-0.974
55	650	1033.507	1031.685	-1.822
55	324	1047.988	1048.465	0.477
100	562	1039.928	1033.118	-6.810
100	753	1039.899	1038.229	-1.670
100	547	1038.646	1032.870	-5.776
100	724	1038.106	1032.518	-5.588
100	534	1040.110	1039.002	-1.108
105	265	1037.773	1031.692	-6.081
105	482	1034.086	1029.717	-4.369
105	372	1044.261	1040.321	-3.940
105	308	1030.350	1021.345	-9.005
105	438	1044.044	1038.926	-5.118
	Max	1049.870	1049.551	0.636
	Average	1037.965	1035.879	-2.086
	Min	1025.074	1021.345	-9.005
	Std Dev	5.859	6.233	1.961



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

krad	0	3	8	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	1031.741	1030.764	1028.336	1031.220	1025.325	1027.490	1025.856	1027.752	1031.685	1032.518	1021.345
Average	1042.429	1038.854	1035.491	1037.321	1031.809	1034.393	1033.061	1036.868	1039.520	1035.147	1032.400
Max	1049.551	1046.777	1040.014	1044.812	1040.254	1037.900	1040.091	1043.649	1048.465	1039.002	1040.321
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

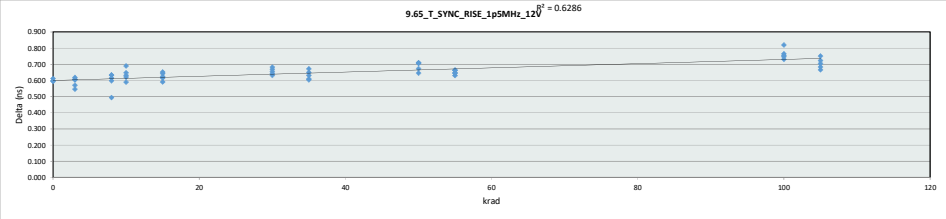


HDR TID Report
TPS7H5003-SP QMLP

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

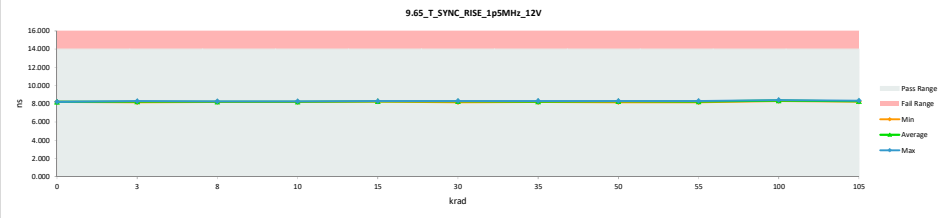
	9.65_T_SYNC_RISE_1p5MHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.610	8.207	0.597
0	236	7.620	8.213	0.593
0	563	7.594	8.205	0.611
3	717	7.645	8.251	0.606
3	685	7.714	8.259	0.545
3	360	7.581	8.150	0.569
3	427	7.615	8.233	0.618
3	785	7.684	8.286	0.602
8	770	7.703	8.196	0.493
8	331	7.580	8.212	0.632
8	279	7.615	8.212	0.597
8	694	7.652	8.266	0.614
8	337	7.616	8.248	0.632
10	498	7.646	8.235	0.589
10	139	7.492	8.181	0.689
10	632	7.568	8.199	0.631
10	465	7.584	8.204	0.620
10	500	7.622	8.269	0.647
15	209	7.662	8.252	0.590
15	720	7.612	8.263	0.651
15	327	7.664	8.287	0.623
15	700	7.623	8.237	0.614
15	851	7.590	8.232	0.642
30	571	7.615	8.283	0.668
30	172	7.673	8.315	0.642
30	375	7.489	8.170	0.681
30	445	7.651	8.282	0.631
30	103	7.601	8.255	0.654
35	119	7.533	8.204	0.671
35	90	7.641	8.271	0.630
35	297	7.697	8.300	0.603
35	594	7.611	8.220	0.609
35	586	7.529	8.178	0.649
50	152	7.607	8.314	0.707
50	359	7.618	8.263	0.645
50	126	7.603	8.308	0.705
50	883	7.499	8.171	0.672
50	117	7.515	8.224	0.709
55	301	7.633	8.262	0.629
55	593	7.607	8.270	0.663
55	374	7.495	8.157	0.662
55	650	7.587	8.233	0.646
55	324	7.674	8.318	0.644
100	562	7.565	8.329	0.764
100	753	7.577	8.307	0.730
100	547	7.663	8.409	0.746
100	724	7.521	8.339	0.818
100	534	7.622	8.376	0.754
105	265	7.567	8.250	0.683
105	482	7.466	8.216	0.750
105	372	7.564	8.267	0.703
105	308	7.643	8.308	0.665
105	438	7.614	8.336	0.722
	Max	7.714	8.409	0.818
	Average	7.603	8.253	0.650
	Min	7.466	8.150	0.493
	Std Dev	0.058	0.055	0.058



	9.65_T_SYNC_RISE_1p5MHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.205	8.150	8.196	8.181	8.232	8.170	8.178	8.171	8.157	8.307	8.216
Average	8.208	8.236	8.227	8.218	8.254	8.261	8.235	8.256	8.248	8.352	8.275
Max	8.213	8.286	8.266	8.269	8.287	8.315	8.300	8.314	8.318	8.409	8.336
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

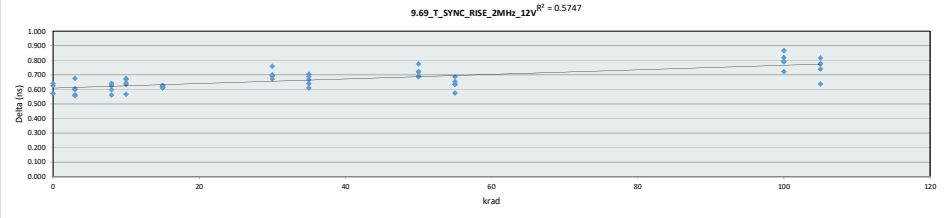


HDR TID Report
TPS7H5003-SP QMLP

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

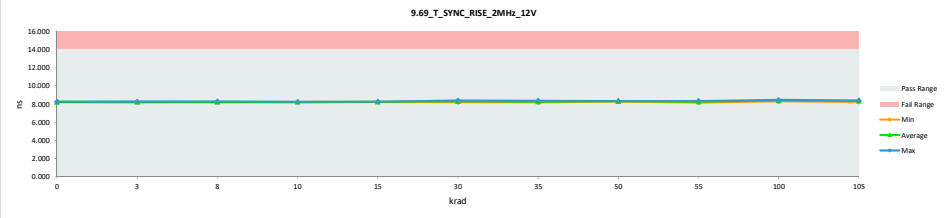
	9.69_T_SYNC_RISE_2MHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.617	8.241	0.624
0	236	7.626	8.265	0.639
0	563	7.613	8.183	0.570
3	717	7.646	8.208	0.562
3	685	7.656	8.212	0.556
3	360	7.570	8.166	0.596
3	427	7.592	8.267	0.675
3	785	7.657	8.261	0.604
8	770	7.637	8.197	0.560
8	331	7.546	8.186	0.640
8	279	7.600	8.197	0.597
8	694	7.664	8.301	0.637
8	337	7.581	8.205	0.624
10	498	7.668	8.234	0.566
10	139	7.488	8.156	0.668
10	632	7.565	8.238	0.673
10	465	7.580	8.223	0.643
10	500	7.612	8.244	0.632
15	209	7.642	8.251	0.609
15	720	7.630	8.255	0.625
15	327	7.644	8.255	0.611
15	700	7.622	8.246	0.624
15	851	7.606	8.222	0.616
30	571	7.640	8.311	0.671
30	172	7.644	8.335	0.691
30	375	7.494	8.193	0.699
30	445	7.633	8.390	0.757
30	103	7.602	8.297	0.695
35	119	7.585	8.224	0.639
35	90	7.638	8.247	0.609
35	297	7.683	8.370	0.687
35	594	7.572	8.275	0.703
35	586	7.528	8.193	0.665
50	152	7.607	8.296	0.689
50	359	7.600	8.322	0.722
50	126	7.637	8.324	0.687
50	883	7.499	8.272	0.773
50	117	7.537	8.255	0.718
55	301	7.608	8.241	0.633
55	593	7.639	8.272	0.633
55	374	7.505	8.190	0.685
55	650	7.594	8.168	0.574
55	324	7.692	8.343	0.651
100	562	7.572	8.293	0.721
100	753	7.575	8.440	0.865
100	547	7.653	8.446	0.793
100	724	7.536	8.324	0.788
100	534	7.591	8.408	0.817
105	265	7.603	8.239	0.636
105	482	7.471	8.247	0.776
105	372	7.570	8.344	0.774
105	308	7.653	8.392	0.739
105	438	7.579	8.393	0.814
	Max	7.692	8.446	0.865
	Average	7.600	8.269	0.669
	Min	7.471	8.156	0.556
	Std Dev	0.051	0.071	0.073



	9.69_T_SYNC_RISE_2MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.183	8.166	8.186	8.156	8.222	8.193	8.193	8.255	8.168	8.293	8.239
Average	8.230	8.223	8.217	8.219	8.246	8.305	8.262	8.294	8.243	8.382	8.323
Max	8.265	8.267	8.301	8.244	8.255	8.390	8.370	8.324	8.343	8.446	8.393
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

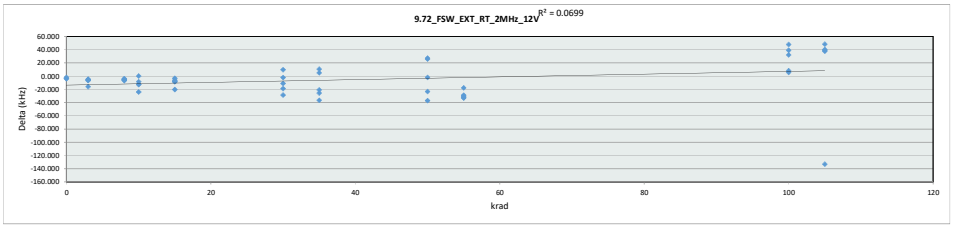


HDR TID Report
TPS7H5003-SP QMLP

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

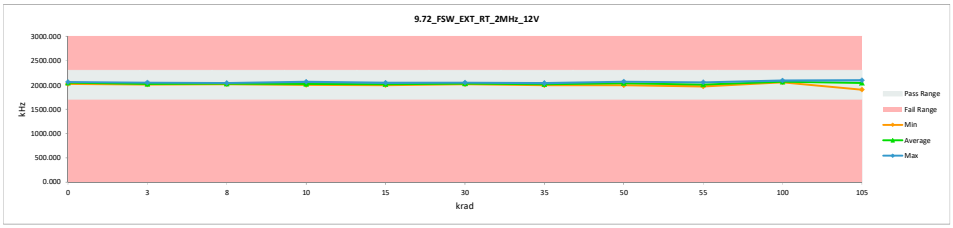
	9.72_FSW_EXT_RT_2MHz_12V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2062.013	2059.781	-2.232
0	236	2059.742	2055.600	-4.142
0	563	2027.070	2023.259	-3.811
3	717	2036.924	2032.030	-4.894
3	685	2022.341	2015.730	-6.611
3	360	2027.334	2022.025	-5.309
3	427	2024.162	2008.044	-16.118
3	785	2054.860	2047.958	-6.902
8	770	2020.363	2014.632	-5.731
8	331	2044.064	2040.028	-4.036
8	279	2038.385	2032.341	-6.044
8	694	2040.040	2034.311	-5.729
8	337	2021.762	2014.683	-7.079
10	498	2020.947	2012.322	-8.625
10	139	2029.068	2028.971	-0.097
10	632	2023.767	1999.593	-24.174
10	465	2076.260	2063.499	-12.761
10	500	2037.720	2024.920	-12.800
15	209	2024.761	2018.210	-6.551
15	720	2024.409	2015.625	-8.784
15	327	2016.833	1996.318	-20.515
15	700	2003.263	1999.780	-3.483
15	851	2053.404	2045.105	-8.299
30	571	2046.881	2017.940	-28.941
30	172	2044.224	2025.260	-18.964
30	375	2046.041	2034.610	-11.431
30	445	2038.735	2048.135	9.400
30	103	2020.601	2018.237	-2.364
35	119	2051.826	2015.091	-36.735
35	90	2020.268	1994.397	-25.871
35	297	2015.300	2020.085	4.785
35	594	2026.802	2037.069	10.267
35	586	2043.017	2022.035	-20.982
50	152	2031.478	1994.092	-37.386
50	359	2013.859	2039.366	25.507
50	126	2045.580	2043.432	-2.148
50	883	2041.136	2068.020	26.884
50	117	2051.482	2028.011	-23.471
55	301	2025.525	1994.561	-30.964
55	593	2029.839	2000.793	-29.046
55	374	2071.956	2053.953	-18.003
55	650	2003.932	1971.104	-32.828
55	324	2047.535	2014.092	-33.443
100	562	2052.683	2060.564	7.881
100	753	2042.316	2089.791	47.475
100	547	2029.715	2068.386	38.671
100	724	2050.084	2055.385	5.301
100	534	2030.178	2061.919	31.741
105	265	2035.949	1902.584	-133.365
105	482	2027.279	2067.265	39.986
105	372	2057.805	2096.255	38.450
105	308	2003.610	2051.725	48.115
105	438	2050.809	2088.161	37.352
	Max	2076.260	2096.255	48.115
	Average	2035.584	2029.945	-5.639
	Min	2003.263	1902.584	-133.365
	Std Dev	16.482	32.091	28.288



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

krad	0	3	8	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	2023.259	2008.044	2014.632	1999.593	1996.318	2017.940	1994.397	1994.092	1971.104	2055.385	1902.584
Average	2046.213	2025.157	2027.199	2025.861	2015.008	2028.836	2017.735	2034.584	2006.901	2067.209	2041.198
Max	2059.781	2047.958	2040.028	2063.499	2045.105	2048.135	2037.069	2068.020	2053.953	2089.791	2096.255
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

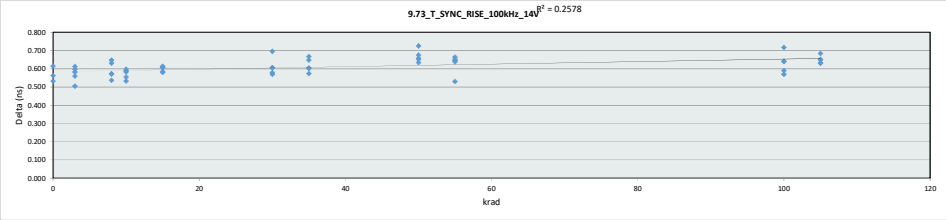


HDR TID Report
TPS7H5003-SP QMLP

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

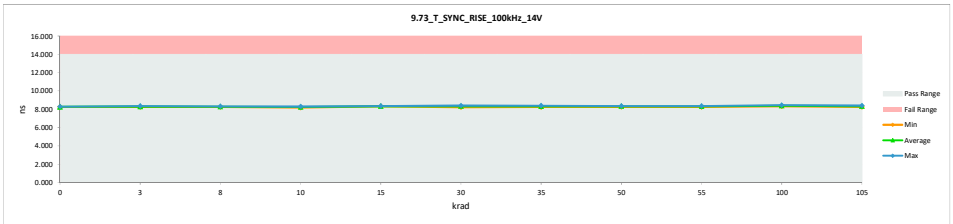
	9.73_T_SYNC_RISE_100kHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.729	8.260	0.531
0	236	7.692	8.253	0.561
0	563	7.664	8.278	0.614
3	717	7.716	8.313	0.597
3	685	7.758	8.317	0.559
3	360	7.651	8.232	0.581
3	427	7.743	8.247	0.504
3	785	7.733	8.345	0.612
8	770	7.700	8.272	0.572
8	331	7.688	8.224	0.536
8	279	7.673	8.319	0.646
8	694	7.687	8.317	0.630
8	337	7.680	8.250	0.570
10	498	7.741	8.295	0.554
10	139	7.576	8.163	0.587
10	632	7.618	8.215	0.597
10	465	7.624	8.206	0.582
10	500	7.765	8.297	0.532
15	209	7.746	8.330	0.584
15	720	7.698	8.311	0.613
15	327	7.742	8.350	0.608
15	700	7.738	8.317	0.579
15	851	7.733	8.338	0.605
30	571	7.688	8.292	0.604
30	172	7.797	8.375	0.578
30	375	7.640	8.209	0.569
30	445	7.789	8.394	0.605
30	103	7.630	8.325	0.695
35	119	7.665	8.238	0.573
35	90	7.730	8.377	0.647
35	297	7.773	8.376	0.603
35	594	7.703	8.304	0.601
35	586	7.567	8.233	0.666
50	152	7.704	8.360	0.656
50	359	7.686	8.360	0.674
50	126	7.696	8.348	0.652
50	883	7.572	8.297	0.725
50	117	7.620	8.253	0.633
55	301	7.695	8.339	0.644
55	593	7.657	8.307	0.650
55	374	7.569	8.232	0.663
55	650	7.646	8.284	0.638
55	324	7.834	8.363	0.529
100	562	7.665	8.305	0.640
100	753	7.763	8.352	0.589
100	547	7.885	8.454	0.569
100	724	7.625	8.341	0.716
100	534	7.799	8.438	0.639
105	265	7.662	8.310	0.648
105	482	7.598	8.248	0.650
105	372	7.682	8.312	0.630
105	308	7.713	8.396	0.683
105	438	7.744	8.375	0.631
	Max	7.885	8.454	0.725
	Average	7.696	8.307	0.610
	Min	7.567	8.163	0.504
	Std Dev	0.067	0.061	0.048



	9.73_T_SYNC_RISE_100kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.253	8.232	8.224	8.163	8.311	8.209	8.233	8.253	8.232	8.305	8.248
Average	8.264	8.291	8.276	8.235	8.329	8.319	8.306	8.324	8.305	8.378	8.328
Max	8.278	8.345	8.319	8.297	8.350	8.394	8.377	8.360	8.363	8.454	8.396
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

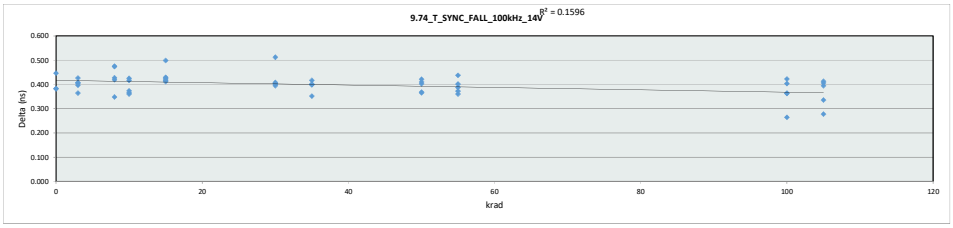


HDR TID Report
TPS7H5003-SP QMLP

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

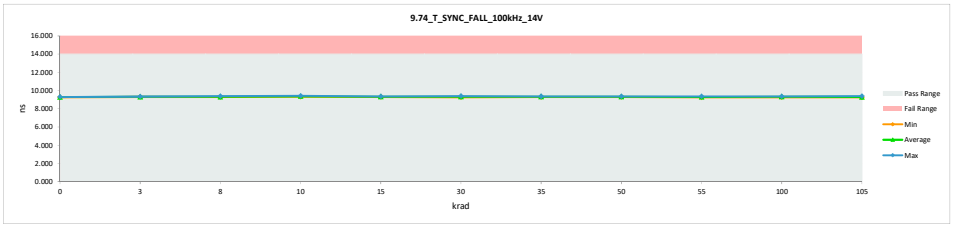
	9.74_T_SYNC_FALL_100kHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.883	9.264	0.381
0	236	8.877	9.260	0.383
0	563	8.849	9.295	0.446
3	717	8.908	9.315	0.407
3	685	8.891	9.296	0.405
3	360	8.946	9.342	0.396
3	427	8.956	9.320	0.364
3	785	8.868	9.294	0.426
8	770	8.950	9.298	0.348
8	331	8.900	9.373	0.473
8	279	8.869	9.296	0.427
8	694	8.870	9.289	0.419
8	337	8.839	9.313	0.474
10	498	8.943	9.303	0.360
10	139	8.993	9.418	0.425
10	632	8.946	9.311	0.365
10	465	8.939	9.355	0.416
10	500	8.998	9.371	0.373
15	209	8.888	9.317	0.429
15	720	8.920	9.337	0.417
15	327	8.893	9.318	0.425
15	700	8.940	9.351	0.411
15	851	8.794	9.292	0.498
30	571	8.937	9.337	0.400
30	172	8.872	9.266	0.394
30	375	8.940	9.343	0.403
30	445	8.904	9.312	0.408
30	103	8.881	9.393	0.512
35	119	8.939	9.290	0.351
35	90	8.926	9.342	0.416
35	297	8.902	9.301	0.399
35	594	8.922	9.323	0.401
35	586	8.971	9.369	0.398
50	152	8.879	9.300	0.421
50	359	8.877	9.287	0.410
50	126	8.908	9.310	0.402
50	883	8.992	9.360	0.368
50	117	8.986	9.351	0.365
55	301	8.854	9.291	0.437
55	593	8.890	9.277	0.387
55	374	8.996	9.356	0.360
55	650	8.868	9.269	0.401
55	324	8.865	9.237	0.372
100	562	8.929	9.351	0.422
100	753	8.986	9.350	0.364
100	547	8.904	9.266	0.362
100	724	8.924	9.327	0.403
100	534	9.037	9.301	0.264
105	265	8.897	9.291	0.394
105	482	8.967	9.373	0.406
105	372	8.914	9.249	0.335
105	308	8.852	9.264	0.412
105	438	9.029	9.306	0.277
	Max	9.037	9.418	0.512
	Average	8.917	9.315	0.398
	Min	8.794	9.237	0.264
	Std Dev	0.051	0.038	0.044



	9.74_T_SYNC_FALL_100kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	9.260	9.294	9.289	9.303	9.292	9.266	9.290	9.287	9.237	9.266	9.249
Average	9.273	9.313	9.314	9.352	9.323	9.330	9.325	9.322	9.286	9.319	9.297
Max	9.295	9.342	9.373	9.418	9.351	9.393	9.369	9.360	9.356	9.351	9.373
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

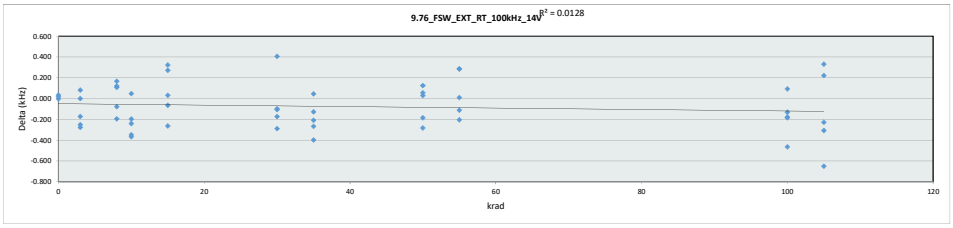


HDR TID Report
TPS7H5003-SP QMLP

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

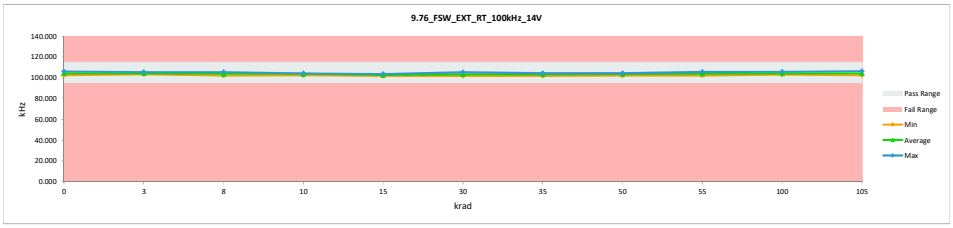
	9.76_FSW_EXT_RT_100kHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	105.950	105.982	0.032
0	236	104.134	104.150	0.016
0	563	102.565	102.560	-0.005
3	717	103.808	103.806	-0.002
3	685	103.754	103.475	-0.279
3	360	103.171	103.251	0.080
3	427	105.625	105.451	-0.174
3	785	105.642	105.389	-0.253
8	770	102.809	102.974	0.165
8	331	105.321	105.427	0.106
8	279	105.135	104.938	-0.197
8	694	103.155	103.273	0.118
8	337	102.094	102.014	-0.080
10	498	102.455	102.500	0.045
10	139	104.450	104.252	-0.198
10	632	103.744	103.501	-0.243
10	465	104.618	104.249	-0.369
10	500	104.465	104.115	-0.350
15	209	102.104	102.037	-0.067
15	720	103.610	103.639	0.029
15	327	101.691	101.961	0.270
15	700	101.494	101.815	0.321
15	851	103.551	103.286	-0.265
30	571	102.734	103.138	0.404
30	172	103.552	103.260	-0.292
30	375	102.503	102.328	-0.175
30	445	105.316	105.216	-0.100
30	103	101.988	101.880	-0.108
35	119	102.162	101.762	-0.400
35	90	103.028	102.759	-0.269
35	297	104.263	104.306	0.043
35	594	103.053	102.842	-0.211
35	586	104.414	104.284	-0.130
50	152	104.162	103.877	-0.285
50	359	102.291	102.104	-0.187
50	126	103.743	103.770	0.027
50	883	103.905	104.028	0.123
50	117	104.263	104.317	0.054
55	301	104.285	104.171	-0.114
55	593	103.063	103.346	0.283
55	374	104.403	104.686	0.283
55	650	102.364	102.158	-0.206
55	324	105.599	105.607	0.008
100	562	103.440	103.254	-0.186
100	753	105.003	105.094	0.091
100	547	104.131	103.950	-0.181
100	724	103.316	102.850	-0.466
100	534	105.795	105.662	-0.133
105	265	103.352	102.699	-0.653
105	482	103.951	104.171	0.220
105	372	105.578	105.348	-0.230
105	308	102.652	102.343	-0.309
105	438	105.963	106.292	0.329
	Max	105.963	106.292	0.404
	Average	103.766	103.690	-0.077
	Min	101.494	101.762	-0.653
	Std Dev	1.201	1.213	0.222



	9.76_FSW_EXT_RT_100kHz_14	
Test Site		
Tester		
Test Number		
Max Limit	115	kHz
Min Limit	95	kHz

krad	0	3	8	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	102.560	103.251	102.014	102.500	101.815	101.880	101.762	102.104	102.158	102.850	102.343
Average	104.231	104.274	103.725	103.723	102.548	103.164	103.191	103.619	103.994	104.162	104.171
Max	105.982	105.451	105.427	104.252	103.639	105.216	104.306	104.317	105.607	105.662	106.292
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

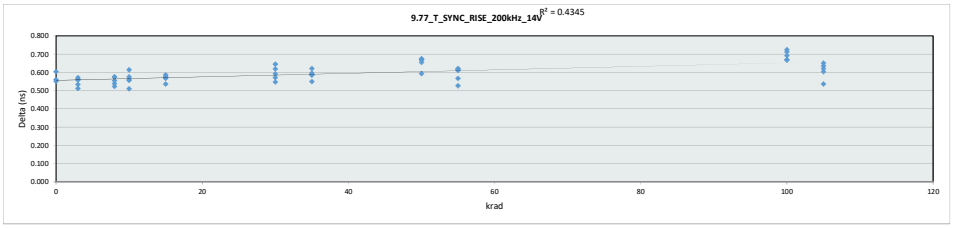


HDR TID Report
TPS7H5003-SP QMLP

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

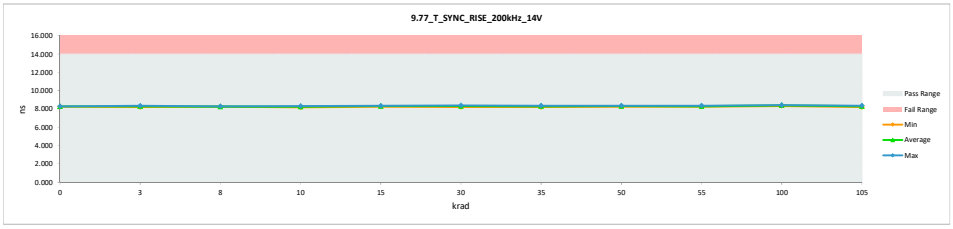
	9.77_T_SYNC_RISE_200kHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.693	8.296	0.603
0	236	7.698	8.249	0.551
0	563	7.712	8.272	0.560
3	717	7.773	8.343	0.570
3	685	7.736	8.297	0.561
3	360	7.692	8.203	0.511
3	427	7.718	8.251	0.533
3	785	7.768	8.325	0.557
8	770	7.712	8.250	0.538
8	331	7.682	8.257	0.575
8	279	7.767	8.289	0.522
8	694	7.715	8.289	0.574
8	337	7.707	8.261	0.554
10	498	7.813	8.322	0.509
10	139	7.602	8.177	0.575
10	632	7.656	8.269	0.613
10	465	7.669	8.227	0.558
10	500	7.745	8.302	0.557
15	209	7.754	8.289	0.535
15	720	7.769	8.337	0.568
15	327	7.762	8.330	0.568
15	700	7.755	8.331	0.576
15	851	7.679	8.265	0.586
30	571	7.725	8.296	0.571
30	172	7.763	8.381	0.618
30	375	7.578	8.222	0.644
30	445	7.845	8.392	0.547
30	103	7.710	8.301	0.591
35	119	7.654	8.274	0.620
35	90	7.764	8.350	0.586
35	297	7.812	8.361	0.549
35	594	7.677	8.272	0.595
35	586	7.621	8.207	0.586
50	152	7.695	8.349	0.654
50	359	7.726	8.319	0.593
50	126	7.704	8.371	0.667
50	883	7.580	8.254	0.674
50	117	7.622	8.294	0.672
55	301	7.751	8.317	0.566
55	593	7.686	8.307	0.621
55	374	7.637	8.253	0.616
55	650	7.768	8.294	0.526
55	324	7.759	8.369	0.610
100	562	7.670	8.337	0.667
100	753	7.691	8.403	0.712
100	547	7.752	8.421	0.669
100	724	7.663	8.354	0.691
100	534	7.699	8.423	0.724
105	265	7.702	8.305	0.603
105	482	7.596	8.216	0.620
105	372	7.665	8.300	0.635
105	308	7.819	8.355	0.536
105	438	7.715	8.365	0.650
	Max	7.845	8.423	0.724
	Average	7.710	8.304	0.594
	Min	7.578	8.177	0.509
	Std Dev	0.060	0.056	0.052



	9.77_T_SYNC_RISE_200kHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.249	8.203	8.250	8.177	8.265	8.222	8.207	8.254	8.253	8.337	8.216
Average	8.272	8.284	8.269	8.259	8.310	8.318	8.293	8.317	8.308	8.388	8.308
Max	8.296	8.343	8.289	8.322	8.337	8.392	8.361	8.371	8.369	8.423	8.365
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

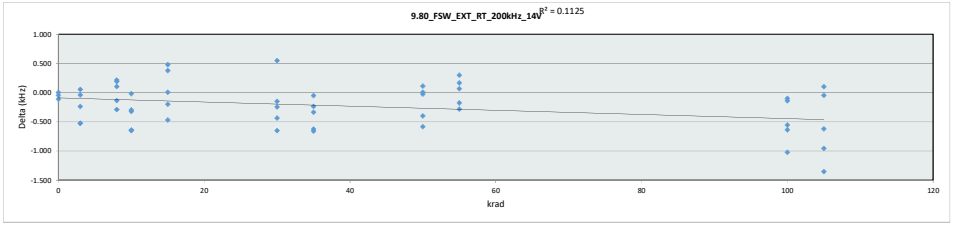


HDR TID Report
TPS7H5003-SP QMLP

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

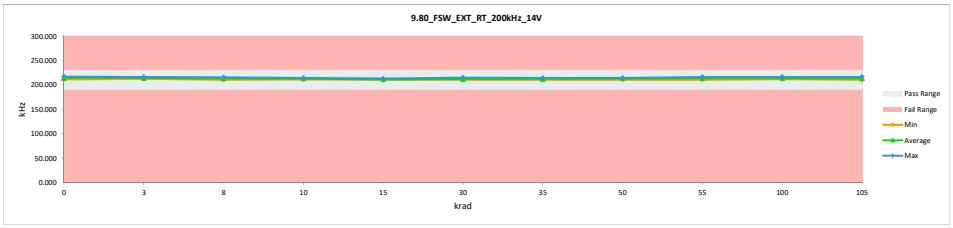
	9.80_FSW_EXT_RT_200kHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	216.947	216.949	0.002
0	236	214.313	214.202	-0.111
0	563	211.119	211.072	-0.047
3	717	213.428	213.388	-0.040
3	685	212.972	212.446	-0.526
3	360	212.274	212.328	0.054
3	427	216.063	215.826	-0.237
3	785	216.453	215.927	-0.526
8	770	211.574	211.788	0.214
8	331	215.120	215.308	0.188
8	279	215.013	214.722	-0.291
8	694	212.671	212.774	0.103
8	337	210.353	210.217	-0.136
10	498	211.017	210.999	-0.018
10	139	213.946	213.623	-0.323
10	632	213.156	212.859	-0.297
10	465	214.853	214.202	-0.651
10	500	214.201	213.559	-0.642
15	209	210.672	210.472	-0.200
15	720	212.695	212.700	0.005
15	327	209.916	210.293	0.377
15	700	209.578	210.057	0.479
15	851	213.322	212.854	-0.468
30	571	211.750	212.298	0.548
30	172	212.923	212.272	-0.651
30	375	211.427	210.990	-0.437
30	445	215.098	214.853	-0.245
30	103	210.344	210.194	-0.150
35	119	210.982	210.321	-0.661
35	90	211.615	210.990	-0.625
35	297	213.463	213.411	-0.052
35	594	212.064	211.727	-0.337
35	586	214.165	213.930	-0.235
50	152	214.033	213.448	-0.585
50	359	210.800	210.400	-0.400
50	126	213.170	213.175	0.005
50	883	213.489	213.601	0.112
50	117	214.209	214.184	-0.025
55	301	213.562	213.386	-0.176
55	593	211.852	212.150	0.298
55	374	215.025	215.192	0.167
55	650	210.488	210.206	-0.282
55	324	216.091	216.158	0.067
100	562	212.985	212.429	-0.556
100	753	214.761	214.623	-0.138
100	547	213.759	213.121	-0.638
100	724	212.711	211.688	-1.023
100	534	216.216	216.116	-0.100
105	265	212.333	210.980	-1.353
105	482	212.926	212.879	-0.047
105	372	215.763	215.142	-0.621
105	308	211.020	210.064	-0.956
105	438	216.383	216.485	0.102
	Max	216.947	216.949	0.548
	Average	213.152	212.924	-0.228
	Min	209.578	210.057	-1.353
	Std Dev	1.894	1.914	0.377



	9.80_FSW_EXT_RT_200kHz_14	
Test Site		
Tester		
Test Number		
Max Limit	230	kHz
Min Limit	190	kHz

krad	0	3	8	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	211.072	212.328	210.217	210.999	210.057	210.194	210.321	210.400	210.206	211.688	210.064
Average	214.074	213.983	212.962	213.048	211.275	212.121	212.076	212.962	213.418	213.595	213.110
Max	216.949	215.927	215.308	214.202	212.854	214.853	213.930	214.184	216.158	216.116	216.485
UL	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000	230.000

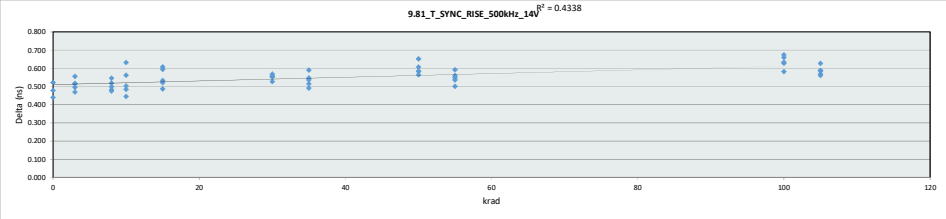


HDR TID Report
TPS7H5003-SP QMLP

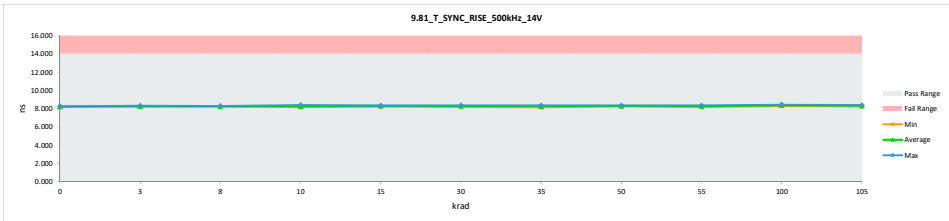
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	9.81_T_SYNC_RISE_500kHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.711	8.232	0.521
0	236	7.775	8.252	0.477
0	563	7.797	8.236	0.439
3	717	7.783	8.338	0.555
3	685	7.801	8.296	0.495
3	360	7.718	8.233	0.515
3	427	7.774	8.243	0.469
3	785	7.780	8.295	0.515
8	770	7.763	8.261	0.498
8	331	7.743	8.217	0.474
8	279	7.740	8.258	0.518
8	694	7.816	8.298	0.482
8	337	7.722	8.267	0.545
10	498	7.829	8.312	0.483
10	139	7.735	8.180	0.445
10	632	7.701	8.262	0.561
10	465	7.715	8.217	0.502
10	500	7.785	8.416	0.631
15	209	7.760	8.353	0.593
15	720	7.792	8.278	0.486
15	327	7.793	8.325	0.532
15	700	7.704	8.311	0.607
15	851	7.726	8.246	0.520
30	571	7.748	8.301	0.553
30	172	7.793	8.345	0.552
30	375	7.633	8.200	0.567
30	445	7.823	8.380	0.557
30	103	7.793	8.319	0.526
35	119	7.653	8.242	0.589
35	90	7.796	8.310	0.514
35	297	7.830	8.365	0.535
35	594	7.735	8.281	0.546
35	586	7.668	8.158	0.490
50	152	7.776	8.359	0.583
50	359	7.754	8.318	0.564
50	126	7.751	8.357	0.606
50	883	7.602	8.253	0.651
50	117	7.687	8.270	0.583
55	301	7.819	8.319	0.500
55	593	7.734	8.282	0.548
55	374	7.596	8.187	0.591
55	650	7.733	8.292	0.559
55	324	7.825	8.360	0.535
100	562	7.653	8.312	0.659
100	753	7.754	8.335	0.581
100	547	7.821	8.448	0.627
100	724	7.665	8.298	0.633
100	534	7.778	8.451	0.673
105	265	7.710	8.296	0.586
105	482	7.657	8.283	0.626
105	372	7.738	8.298	0.560
105	308	7.782	8.351	0.569
105	438	7.794	8.381	0.587
	Max	7.830	8.451	0.673
	Average	7.746	8.296	0.549
	Min	7.596	8.158	0.439
	Std Dev	0.058	0.063	0.055



	9.81_T_SYNC_RISE_500kHz_1										
Test Site											
Tester											
Test Number											
Max Limit	14	ns									
Min Limit	0	ns									
krad	0	3	8	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	8.232	8.233	8.217	8.180	8.246	8.200	8.158	8.253	8.187	8.298	8.283
Average	8.240	8.281	8.260	8.277	8.303	8.309	8.271	8.311	8.288	8.369	8.322
Max	8.252	8.338	8.298	8.416	8.353	8.380	8.365	8.359	8.360	8.451	8.381
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

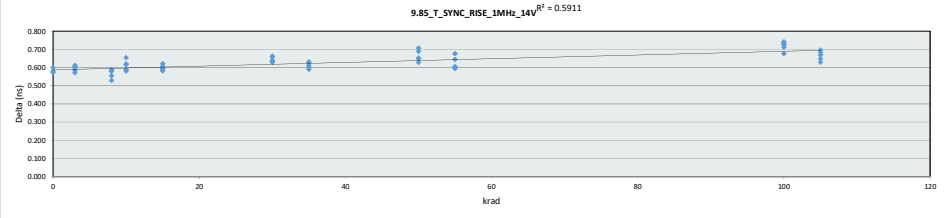


HDR TID Report
TPS7H5003-SP QMLP

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

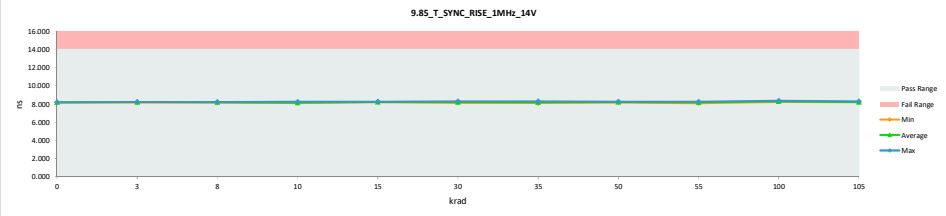
	9.85_T_SYNC_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.596	8.168	0.572
0	236	7.578	8.158	0.580
0	563	7.597	8.196	0.599
3	717	7.625	8.221	0.596
3	685	7.639	8.209	0.570
3	360	7.565	8.170	0.605
3	427	7.570	8.181	0.611
3	785	7.646	8.229	0.583
8	770	7.650	8.178	0.528
8	331	7.561	8.140	0.579
8	279	7.601	8.155	0.554
8	694	7.640	8.228	0.588
8	337	7.595	8.174	0.579
10	498	7.660	8.240	0.580
10	139	7.480	8.098	0.618
10	632	7.507	8.160	0.653
10	465	7.530	8.117	0.587
10	500	7.613	8.229	0.616
15	209	7.620	8.225	0.605
15	720	7.616	8.197	0.581
15	327	7.642	8.235	0.593
15	700	7.642	8.262	0.620
15	851	7.607	8.202	0.595
30	571	7.582	8.211	0.629
30	172	7.644	8.274	0.630
30	375	7.472	8.127	0.655
30	445	7.629	8.291	0.662
30	103	7.596	8.234	0.638
35	119	7.531	8.156	0.625
35	90	7.631	8.261	0.630
35	297	7.669	8.280	0.611
35	594	7.599	8.188	0.589
35	586	7.502	8.102	0.600
50	152	7.558	8.247	0.689
50	359	7.592	8.243	0.651
50	126	7.603	8.251	0.648
50	883	7.522	8.149	0.627
50	117	7.488	8.194	0.706
55	301	7.596	8.239	0.643
55	593	7.602	8.199	0.597
55	374	7.475	8.080	0.605
55	650	7.548	8.223	0.675
55	324	7.651	8.245	0.594
100	562	7.541	8.270	0.729
100	753	7.576	8.251	0.675
100	547	7.626	8.366	0.740
100	724	7.514	8.239	0.725
100	534	7.618	8.329	0.711
105	265	7.576	8.205	0.629
105	482	7.479	8.174	0.695
105	372	7.578	8.245	0.667
105	308	7.638	8.286	0.648
105	438	7.592	8.274	0.682
	Max	7.669	8.366	0.740
	Average	7.585	8.211	0.626
	Min	7.472	8.080	0.528
	Std Dev	0.053	0.057	0.047



	9.85_T_SYNC_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.158	8.170	8.140	8.098	8.197	8.127	8.102	8.149	8.080	8.239	8.174
Average	8.174	8.202	8.175	8.169	8.224	8.227	8.197	8.217	8.197	8.291	8.237
Max	8.196	8.229	8.228	8.240	8.262	8.291	8.280	8.251	8.245	8.366	8.286
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

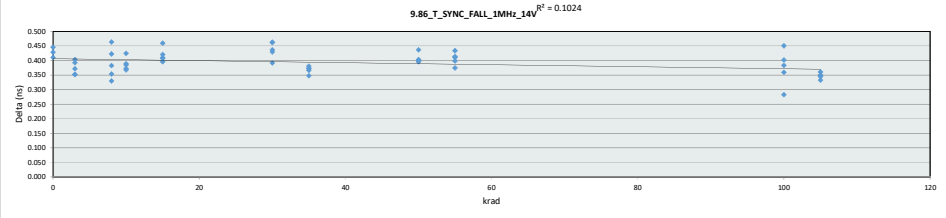


HDR TID Report
TPS7H5003-SP QMLP

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

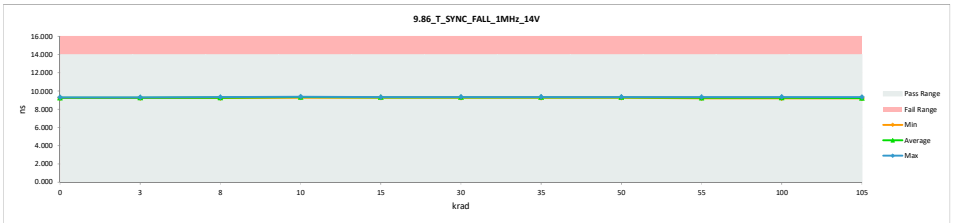
	9.86_T_SYNC_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.831	9.259	0.428
0	236	8.812	9.222	0.410
0	563	8.866	9.311	0.445
3	717	8.910	9.261	0.351
3	685	8.905	9.308	0.403
3	360	8.925	9.317	0.392
3	427	8.891	9.262	0.371
3	785	8.874	9.226	0.352
8	770	8.906	9.288	0.382
8	331	8.972	9.301	0.329
8	279	8.872	9.225	0.353
8	694	8.906	9.328	0.422
8	337	8.818	9.281	0.463
10	498	8.923	9.347	0.424
10	139	9.015	9.382	0.367
10	632	8.917	9.289	0.372
10	465	8.933	9.321	0.388
10	500	8.938	9.322	0.384
15	209	8.889	9.296	0.407
15	720	8.907	9.316	0.409
15	327	8.895	9.290	0.395
15	700	8.908	9.328	0.420
15	851	8.813	9.272	0.459
30	571	8.898	9.289	0.391
30	172	8.811	9.273	0.462
30	375	8.904	9.333	0.429
30	445	8.829	9.265	0.436
30	103	8.892	9.354	0.462
35	119	8.909	9.275	0.366
35	90	8.938	9.311	0.373
35	297	8.889	9.261	0.372
35	594	8.940	9.287	0.347
35	586	8.970	9.350	0.380
50	152	8.843	9.279	0.436
50	359	8.869	9.272	0.403
50	126	8.865	9.263	0.398
50	883	8.915	9.310	0.395
50	117	8.961	9.360	0.399
55	301	8.872	9.270	0.398
55	593	8.890	9.264	0.374
55	374	8.905	9.338	0.433
55	650	8.854	9.264	0.410
55	324	8.788	9.201	0.413
100	562	8.905	9.355	0.450
100	753	8.898	9.281	0.383
100	547	8.862	9.263	0.401
100	724	8.919	9.278	0.359
100	534	8.933	9.215	0.282
105	265	8.864	9.212	0.348
105	482	8.974	9.323	0.349
105	372	8.875	9.207	0.332
105	308	8.877	9.237	0.360
105	438	8.913	9.257	0.344
	Max	9.015	9.382	0.463
	Average	8.894	9.287	0.393
	Min	8.788	9.201	0.282
	Std Dev	0.046	0.042	0.038



	9.86_T_SYNC_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	9.222	9.226	9.225	9.289	9.272	9.265	9.261	9.263	9.201	9.215	9.207
Average	9.264	9.275	9.285	9.332	9.300	9.303	9.297	9.297	9.267	9.278	9.247
Max	9.311	9.317	9.328	9.382	9.328	9.354	9.350	9.360	9.338	9.355	9.323
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

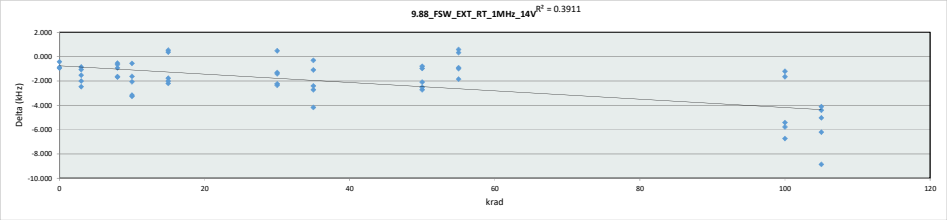


HDR TID Report
TPS7H5003-SP QMLP

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

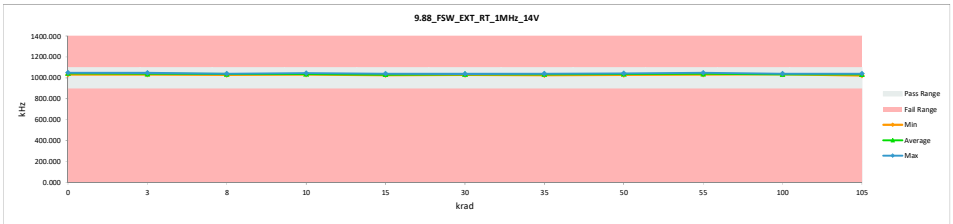
	9.88_FSW_EXT_RT_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1049.922	1049.494	-0.428
0	236	1046.848	1045.965	-0.883
0	563	1032.581	1031.628	-0.953
3	717	1037.965	1037.106	-0.859
3	685	1033.101	1030.620	-2.481
3	360	1035.254	1034.185	-1.069
3	427	1048.249	1046.715	-1.534
3	785	1047.364	1045.350	-2.014
8	770	1032.567	1031.632	-0.935
8	331	1040.471	1039.931	-0.540
8	279	1040.197	1038.540	-1.657
8	694	1039.477	1038.814	-0.663
8	337	1029.933	1028.255	-1.678
10	498	1031.739	1031.172	-0.567
10	139	1035.595	1033.956	-1.639
10	632	1042.655	1040.579	-2.076
10	465	1048.044	1044.766	-3.278
10	500	1038.961	1035.788	-3.173
15	209	1033.255	1031.471	-1.784
15	720	1032.627	1030.607	-2.020
15	327	1030.927	1031.458	0.531
15	700	1024.891	1025.248	0.357
15	851	1042.337	1040.124	-2.213
30	571	1037.412	1037.877	0.465
30	172	1038.579	1036.329	-2.250
30	375	1036.642	1035.224	-1.418
30	445	1037.105	1034.741	-2.364
30	103	1028.795	1027.487	-1.308
35	119	1039.427	1036.691	-2.736
35	90	1030.017	1025.835	-4.182
35	297	1031.482	1030.384	-1.098
35	594	1034.416	1032.005	-2.411
35	586	1040.433	1040.119	-0.314
50	152	1042.465	1039.735	-2.730
50	359	1029.916	1027.814	-2.102
50	126	1038.370	1037.387	-0.983
50	883	1038.154	1035.632	-2.522
50	117	1044.375	1043.577	-0.798
55	301	1035.969	1034.976	-0.993
55	593	1034.272	1034.849	0.577
55	374	1048.488	1047.574	-0.914
55	650	1033.365	1031.506	-1.859
55	324	1048.013	1048.339	0.326
100	562	1039.875	1033.132	-6.743
100	753	1039.781	1038.117	-1.664
100	547	1038.591	1032.798	-5.793
100	724	1037.913	1032.486	-5.427
100	534	1040.097	1038.882	-1.215
105	265	1037.767	1031.543	-6.224
105	482	1034.139	1029.719	-4.420
105	372	1044.219	1040.106	-4.113
105	308	1030.254	1021.387	-8.867
105	438	1043.993	1038.947	-5.046
	Max	1049.922	1049.494	0.577
	Average	1037.911	1035.823	-2.088
	Min	1024.891	1021.387	-8.867
	Std Dev	5.873	6.216	1.948



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

krad	0	3	8	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	1031.628	1030.620	1028.255	1031.172	1025.248	1027.487	1025.835	1027.814	1031.506	1032.486	1021.387
Average	1042.362	1038.795	1035.434	1037.252	1031.782	1034.332	1033.007	1036.829	1039.449	1035.083	1032.340
Max	1049.494	1046.715	1039.931	1044.766	1040.124	1037.877	1040.119	1043.577	1048.339	1038.882	1040.106
UL	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000	1100.000

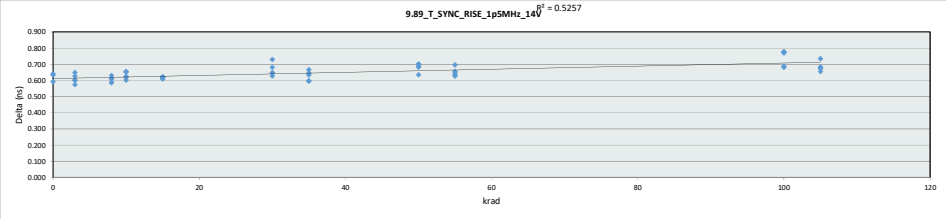


HDR TID Report
TPS7H5003-SP QMLP

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

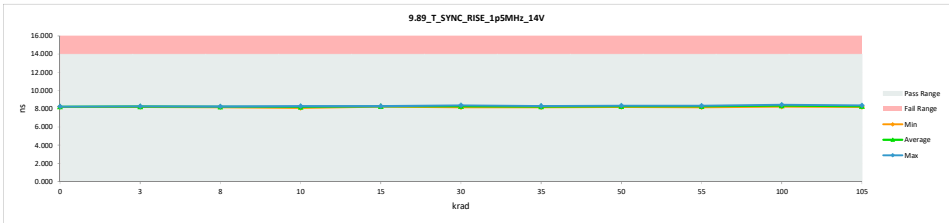
	9.89_T_SYNC_RISE_1p5MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.593	8.233	0.640
0	236	7.606	8.238	0.632
0	563	7.617	8.208	0.591
3	717	7.650	8.223	0.573
3	685	7.651	8.250	0.599
3	360	7.601	8.249	0.648
3	427	7.599	8.200	0.601
3	785	7.649	8.275	0.626
8	770	7.626	8.235	0.609
8	331	7.590	8.178	0.588
8	279	7.629	8.214	0.585
8	694	7.632	8.241	0.609
8	337	7.565	8.194	0.629
10	498	7.667	8.286	0.619
10	139	7.484	8.085	0.601
10	632	7.549	8.200	0.651
10	465	7.564	8.188	0.624
10	500	7.622	8.276	0.654
15	209	7.653	8.275	0.622
15	720	7.616	8.236	0.620
15	327	7.673	8.288	0.615
15	700	7.656	8.264	0.608
15	851	7.610	8.229	0.619
30	571	7.615	8.262	0.647
30	172	7.668	8.314	0.646
30	375	7.487	8.167	0.680
30	445	7.647	8.376	0.729
30	103	7.619	8.246	0.627
35	119	7.548	8.214	0.666
35	90	7.658	8.291	0.633
35	297	7.700	8.297	0.597
35	594	7.633	8.228	0.595
35	586	7.532	8.178	0.646
50	152	7.614	8.313	0.699
50	359	7.621	8.255	0.634
50	126	7.629	8.330	0.701
50	883	7.505	8.186	0.681
50	117	7.526	8.212	0.686
55	301	7.652	8.282	0.630
55	593	7.580	8.275	0.695
55	374	7.511	8.165	0.654
55	650	7.593	8.220	0.627
55	324	7.674	8.317	0.643
100	562	7.533	8.213	0.680
100	753	7.624	8.311	0.687
100	547	7.661	8.430	0.769
100	724	7.530	8.307	0.777
100	534	7.613	8.385	0.772
105	265	7.609	8.291	0.682
105	482	7.534	8.188	0.654
105	372	7.604	8.283	0.679
105	308	7.642	8.314	0.672
105	438	7.620	8.354	0.734
	Max	7.700	8.430	0.777
	Average	7.605	8.254	0.649
	Min	7.484	8.085	0.573
	Std Dev	0.052	0.062	0.048



	9.89_T_SYNC_RISE_1p5MHz_1	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.208	8.200	8.178	8.085	8.229	8.167	8.178	8.186	8.165	8.213	8.188
Average	8.226	8.239	8.212	8.207	8.258	8.273	8.242	8.259	8.252	8.329	8.286
Max	8.238	8.275	8.241	8.286	8.288	8.376	8.297	8.330	8.317	8.430	8.354
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

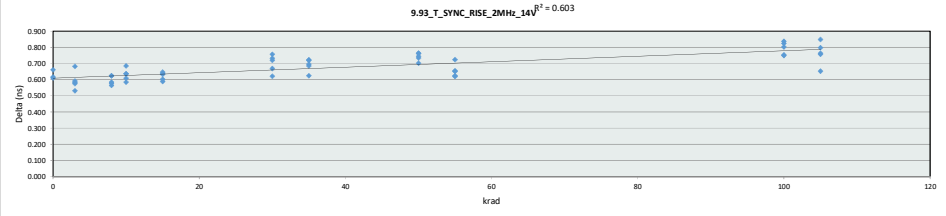


HDR TID Report
TPS7H5003-SP QMLP

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

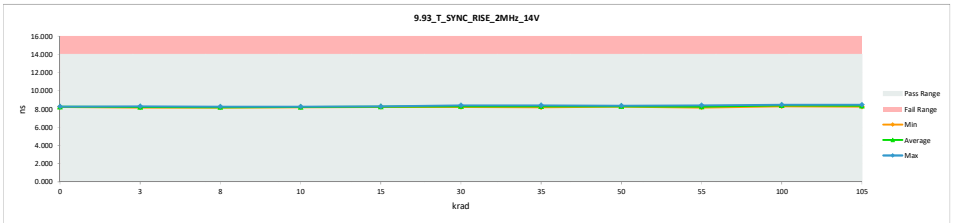
	9.93_T_SYNC_RISE_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.625	8.234	0.609
0	236	7.610	8.270	0.660
0	563	7.603	8.219	0.616
3	717	7.669	8.243	0.574
3	685	7.662	8.192	0.530
3	360	7.580	8.170	0.590
3	427	7.618	8.299	0.681
3	785	7.683	8.265	0.582
8	770	7.624	8.200	0.576
8	331	7.601	8.164	0.563
8	279	7.597	8.181	0.584
8	694	7.628	8.251	0.623
8	337	7.584	8.207	0.623
10	498	7.678	8.262	0.584
10	139	7.493	8.177	0.684
10	632	7.566	8.201	0.635
10	465	7.599	8.234	0.635
10	500	7.634	8.242	0.608
15	209	7.653	8.254	0.601
15	720	7.656	8.243	0.587
15	327	7.635	8.280	0.645
15	700	7.644	8.276	0.632
15	851	7.593	8.229	0.636
30	571	7.621	8.289	0.668
30	172	7.705	8.325	0.620
30	375	7.495	8.213	0.718
30	445	7.638	8.394	0.756
30	103	7.594	8.325	0.731
35	119	7.586	8.270	0.684
35	90	7.646	8.269	0.623
35	297	7.673	8.394	0.721
35	594	7.586	8.304	0.718
35	586	7.498	8.193	0.695
50	152	7.586	8.287	0.701
50	359	7.589	8.350	0.761
50	126	7.614	8.357	0.743
50	883	7.514	8.277	0.763
50	117	7.540	8.273	0.733
55	301	7.626	8.245	0.619
55	593	7.577	8.231	0.654
55	374	7.518	8.168	0.650
55	650	7.590	8.213	0.623
55	324	7.670	8.393	0.723
100	562	7.552	8.300	0.748
100	753	7.602	8.425	0.823
100	547	7.658	8.459	0.801
100	724	7.553	8.305	0.752
100	534	7.599	8.435	0.836
105	265	7.593	8.244	0.651
105	482	7.493	8.290	0.797
105	372	7.569	8.331	0.762
105	308	7.628	8.384	0.756
105	438	7.608	8.455	0.847
	Max	7.705	8.459	0.847
	Average	7.603	8.277	0.674
	Min	7.493	8.164	0.530
	Std Dev	0.051	0.076	0.078



	9.93_T_SYNC_RISE_2MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	8.219	8.170	8.164	8.177	8.229	8.213	8.193	8.273	8.168	8.300	8.244
Average	8.241	8.234	8.201	8.223	8.256	8.309	8.286	8.309	8.250	8.385	8.341
Max	8.270	8.299	8.251	8.262	8.280	8.394	8.394	8.357	8.393	8.459	8.455
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

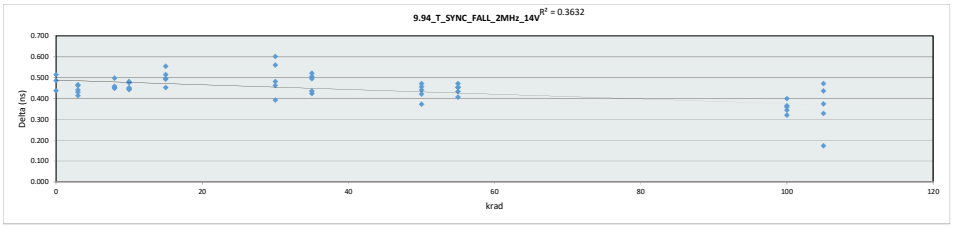


HDR TID Report
TPS7H5003-SP QMLP

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

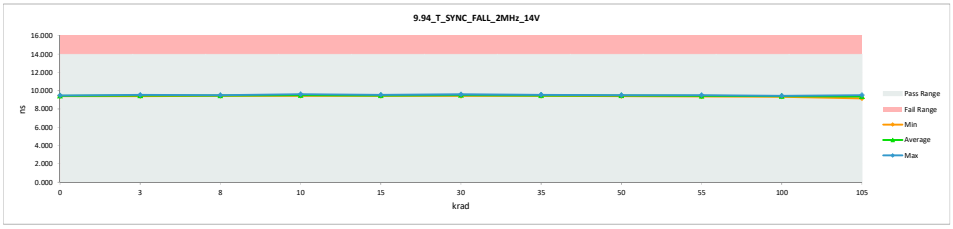
	9.94_T_SYNC_FALL_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	14	14
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.962	9.476	0.514
0	236	8.933	9.419	0.486
0	563	8.983	9.420	0.437
3	717	9.031	9.472	0.441
3	685	9.004	9.466	0.462
3	360	9.071	9.536	0.465
3	427	8.980	9.410	0.430
3	785	9.049	9.462	0.413
8	770	9.010	9.468	0.458
8	331	9.052	9.500	0.448
8	279	9.020	9.471	0.451
8	694	9.008	9.461	0.453
8	337	8.925	9.422	0.497
10	498	8.992	9.443	0.451
10	139	9.172	9.614	0.442
10	632	8.994	9.440	0.446
10	465	9.100	9.581	0.481
10	500	9.064	9.539	0.475
15	209	8.994	9.487	0.493
15	720	9.017	9.512	0.495
15	327	8.972	9.424	0.452
15	700	9.035	9.549	0.514
15	851	8.929	9.483	0.554
30	571	9.040	9.432	0.392
30	172	8.959	9.440	0.481
30	375	9.038	9.598	0.560
30	445	9.027	9.489	0.462
30	103	8.991	9.592	0.601
35	119	9.015	9.450	0.435
35	90	9.013	9.436	0.423
35	297	8.997	9.491	0.494
35	594	9.032	9.553	0.521
35	586	9.050	9.555	0.505
50	152	8.977	9.418	0.441
50	359	9.015	9.471	0.456
50	126	9.078	9.450	0.372
50	883	9.047	9.518	0.471
50	117	9.094	9.515	0.421
55	301	8.987	9.420	0.433
55	593	8.966	9.437	0.471
55	374	9.068	9.522	0.454
55	650	8.952	9.358	0.406
55	324	8.923	9.375	0.452
100	562	9.100	9.444	0.344
100	753	9.038	9.437	0.399
100	547	8.985	9.344	0.359
100	724	9.071	9.436	0.365
100	534	9.076	9.396	0.320
105	265	8.989	9.162	0.173
105	482	9.028	9.499	0.471
105	372	9.037	9.365	0.328
105	308	8.965	9.401	0.436
105	438	9.041	9.415	0.374
	Max	9.172	9.614	0.601
	Average	9.017	9.462	0.445
	Min	8.923	9.162	0.173
	Std Dev	0.050	0.074	0.067



	9.94_T_SYNC_FALL_2MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	14	ns
Min Limit	0	ns

krad	0	3	8	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	9.419	9.410	9.422	9.440	9.424	9.432	9.436	9.418	9.358	9.344	9.162
Average	9.438	9.469	9.464	9.523	9.491	9.510	9.497	9.474	9.422	9.411	9.368
Max	9.476	9.536	9.500	9.614	9.549	9.598	9.555	9.518	9.522	9.444	9.499
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

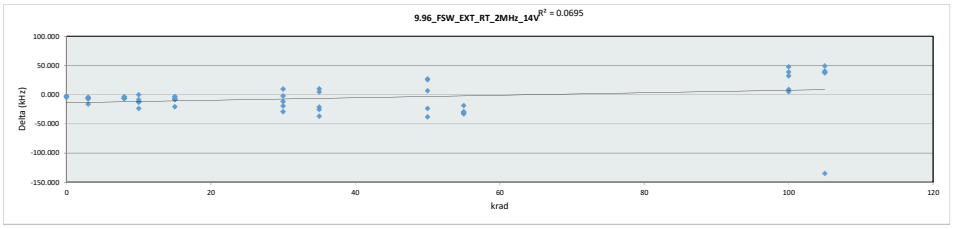


HDR TID Report
TPS7H5003-SP QMLP

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

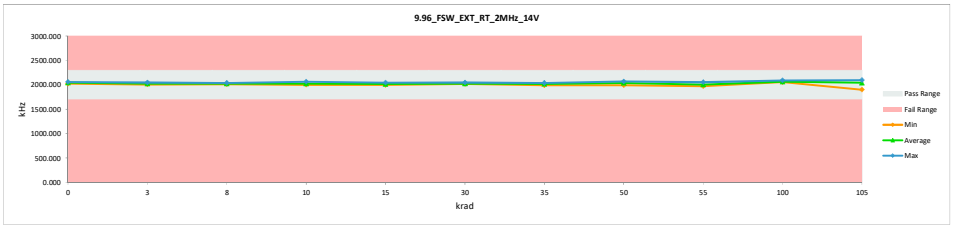
	9.96_FSW_EXT_RT_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2061.698	2059.381	-2.317
0	236	2059.862	2055.232	-4.630
0	563	2026.795	2023.131	-3.664
3	717	2036.613	2031.980	-4.633
3	685	2022.303	2015.752	-6.551
3	360	2026.926	2021.673	-5.253
3	427	2023.830	2007.444	-16.386
3	785	2054.662	2047.445	-7.217
8	770	2020.072	2013.991	-6.081
8	331	2043.616	2039.894	-3.722
8	279	2038.114	2032.166	-5.948
8	694	2039.904	2033.958	-5.946
8	337	2021.483	2014.577	-6.906
10	498	2020.670	2012.134	-8.536
10	139	2028.958	2028.680	-0.278
10	632	2023.224	1999.509	-23.715
10	465	2075.796	2063.047	-12.749
10	500	2037.376	2024.490	-12.886
15	209	2024.566	2017.878	-6.688
15	720	2024.316	2015.867	-8.449
15	327	2016.681	1995.934	-20.747
15	700	2002.895	1999.596	-3.299
15	851	2053.078	2045.074	-8.004
30	571	2046.774	2017.461	-29.313
30	172	2044.132	2024.684	-19.448
30	375	2045.646	2033.864	-11.782
30	445	2038.322	2047.702	9.380
30	103	2020.397	2018.064	-2.333
35	119	2051.736	2014.750	-36.986
35	90	2019.891	1994.210	-25.681
35	297	2015.275	2019.901	4.626
35	594	2026.844	2036.795	9.951
35	586	2042.660	2021.270	-21.390
50	152	2031.524	1993.410	-38.114
50	359	2013.776	2039.335	25.559
50	126	2045.440	2052.096	6.656
50	883	2040.779	2067.747	26.968
50	117	2051.127	2027.357	-23.770
55	301	2025.117	1994.802	-30.315
55	593	2029.718	2000.190	-29.528
55	374	2071.833	2052.907	-18.926
55	650	2003.765	1970.982	-32.783
55	324	2047.090	2014.300	-32.790
100	562	2052.350	2061.114	8.764
100	753	2042.209	2089.750	47.541
100	547	2029.580	2068.295	38.715
100	724	2049.718	2054.634	4.916
100	534	2029.606	2061.769	32.163
105	265	2035.937	1900.725	-135.212
105	482	2027.188	2067.308	40.120
105	372	2057.660	2096.152	38.492
105	308	2002.860	2051.873	49.013
105	438	2050.507	2087.673	37.166
	Max	2075.796	2096.152	49.013
	Average	2035.338	2029.810	-5.527
	Min	2002.860	1900.725	-135.212
	Std Dev	16.491	32.316	28.574



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

krad	0	3	8	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	2023.131	2007.444	2013.991	1999.509	1995.934	2017.461	1994.210	1993.410	1970.982	2054.634	1900.725
Average	2045.915	2024.859	2026.917	2025.572	2014.870	2028.355	2017.385	2035.989	2006.636	2067.112	2040.746
Max	2059.381	2047.445	2039.894	2063.047	2045.074	2047.702	2036.795	2067.747	2052.907	2089.750	2096.152
UL	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000	2300.000

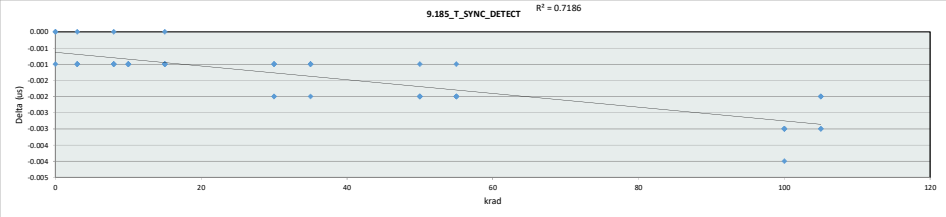


HDR TID Report
TPS7H5003-SP QMLP

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

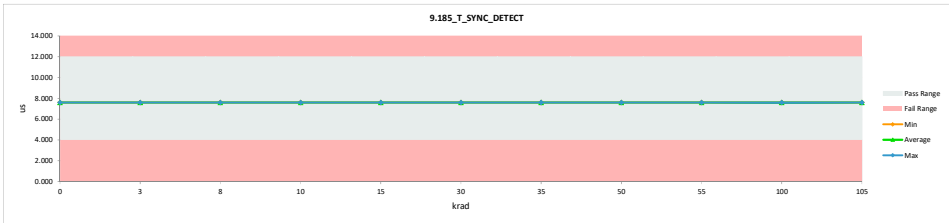
	9.185_T_SYNC_DETECT	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	12	12
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.589	7.589	0.000
0	236	7.588	7.588	0.000
0	563	7.590	7.589	-0.001
3	717	7.589	7.589	0.000
3	685	7.590	7.589	-0.001
3	360	7.589	7.588	-0.001
3	427	7.589	7.588	-0.001
3	785	7.590	7.589	-0.001
8	770	7.589	7.589	0.000
8	331	7.589	7.588	-0.001
8	279	7.590	7.589	-0.001
8	694	7.589	7.588	-0.001
8	337	7.590	7.589	-0.001
10	498	7.589	7.588	-0.001
10	139	7.589	7.588	-0.001
10	632	7.589	7.588	-0.001
10	465	7.589	7.588	-0.001
10	500	7.589	7.588	-0.001
15	209	7.589	7.588	-0.001
15	720	7.590	7.589	-0.001
15	327	7.589	7.588	-0.001
15	700	7.590	7.589	-0.001
15	851	7.588	7.588	0.000
30	571	7.589	7.588	-0.001
30	172	7.589	7.588	-0.001
30	375	7.588	7.587	-0.001
30	445	7.590	7.588	-0.002
30	103	7.590	7.588	-0.002
35	119	7.589	7.588	-0.001
35	90	7.590	7.589	-0.001
35	297	7.589	7.588	-0.001
35	594	7.588	7.587	-0.001
35	586	7.589	7.587	-0.002
50	152	7.589	7.588	-0.001
50	359	7.590	7.588	-0.002
50	126	7.590	7.588	-0.002
50	883	7.588	7.586	-0.002
50	117	7.590	7.588	-0.002
55	301	7.589	7.588	-0.001
55	593	7.588	7.586	-0.002
55	374	7.589	7.587	-0.002
55	650	7.589	7.587	-0.002
55	324	7.589	7.587	-0.002
100	562	7.589	7.586	-0.003
100	753	7.589	7.585	-0.004
100	547	7.589	7.586	-0.003
100	724	7.588	7.585	-0.003
100	534	7.589	7.586	-0.003
105	265	7.589	7.586	-0.003
105	482	7.588	7.586	-0.002
105	372	7.588	7.586	-0.002
105	308	7.590	7.587	-0.003
105	438	7.589	7.587	-0.002
	Max	7.590	7.589	0.000
	Average	7.589	7.588	-0.001
	Min	7.588	7.585	-0.004
	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	8	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	7.588	7.588	7.588	7.588	7.588	7.587	7.587	7.586	7.586	7.585	7.586
Average	7.589	7.589	7.589	7.588	7.588	7.588	7.588	7.588	7.587	7.586	7.586
Max	7.589	7.589	7.589	7.588	7.589	7.588	7.589	7.588	7.588	7.586	7.587
UL	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

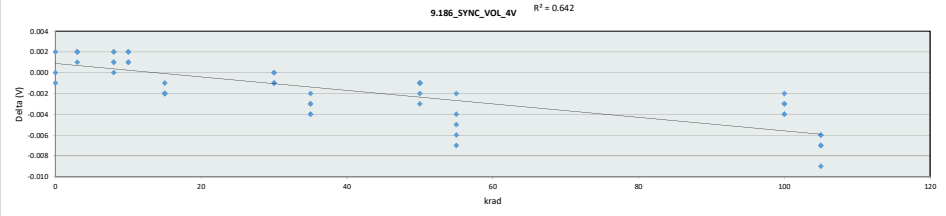


HDR TID Report
TPS7H5003-SP QMLP

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

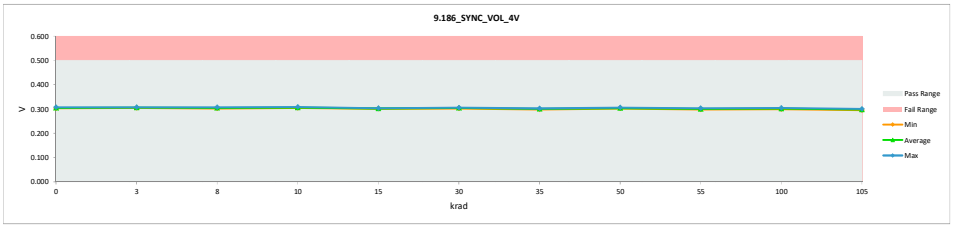
	9.186_SYNC_VOL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.304	0.303	-0.001
0	236	0.301	0.303	0.002
0	563	0.307	0.307	0.000
3	717	0.303	0.305	0.002
3	685	0.303	0.304	0.001
3	360	0.304	0.306	0.002
3	427	0.305	0.307	0.002
3	785	0.304	0.306	0.002
8	770	0.303	0.303	0.000
8	331	0.305	0.307	0.002
8	279	0.301	0.302	0.001
8	694	0.302	0.303	0.001
8	337	0.305	0.307	0.002
10	498	0.305	0.306	0.001
10	139	0.307	0.308	0.001
10	632	0.303	0.305	0.002
10	465	0.302	0.304	0.002
10	500	0.303	0.305	0.002
15	209	0.305	0.303	-0.002
15	720	0.304	0.302	-0.002
15	327	0.304	0.303	-0.001
15	700	0.305	0.303	-0.002
15	851	0.303	0.301	-0.002
30	571	0.306	0.305	-0.001
30	172	0.304	0.304	0.000
30	375	0.302	0.302	0.000
30	445	0.305	0.305	0.000
30	103	0.305	0.304	-0.001
35	119	0.304	0.300	-0.004
35	90	0.305	0.301	-0.004
35	297	0.304	0.302	-0.002
35	594	0.303	0.300	-0.003
35	586	0.301	0.298	-0.003
50	152	0.305	0.304	-0.001
50	359	0.304	0.302	-0.002
50	126	0.307	0.304	-0.003
50	883	0.303	0.302	-0.001
50	117	0.307	0.306	-0.001
55	301	0.303	0.298	-0.005
55	593	0.303	0.299	-0.004
55	374	0.306	0.299	-0.007
55	650	0.305	0.299	-0.006
55	324	0.305	0.303	-0.002
100	562	0.306	0.304	-0.002
100	753	0.304	0.301	-0.003
100	547	0.303	0.299	-0.004
100	724	0.305	0.301	-0.004
100	534	0.305	0.302	-0.003
105	265	0.302	0.295	-0.007
105	482	0.304	0.297	-0.007
105	372	0.305	0.296	-0.009
105	308	0.304	0.298	-0.006
105	438	0.306	0.300	-0.006
	Max	0.307	0.308	0.002
	Average	0.304	0.303	-0.002
	Min	0.301	0.295	-0.009
	Std Dev	0.002	0.003	0.003



	9.186_SYNC_VOL_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	8	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	0.303	0.304	0.302	0.304	0.301	0.302	0.298	0.302	0.298	0.299	0.295
Average	0.304	0.306	0.304	0.306	0.302	0.304	0.300	0.304	0.300	0.301	0.297
Max	0.307	0.307	0.307	0.308	0.303	0.305	0.302	0.306	0.303	0.304	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

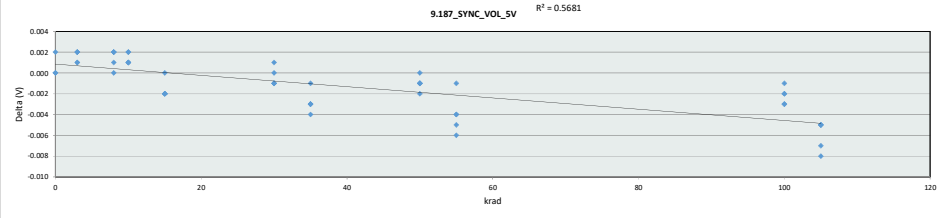


HDR TID Report
TPS7H5003-SP QMLP

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

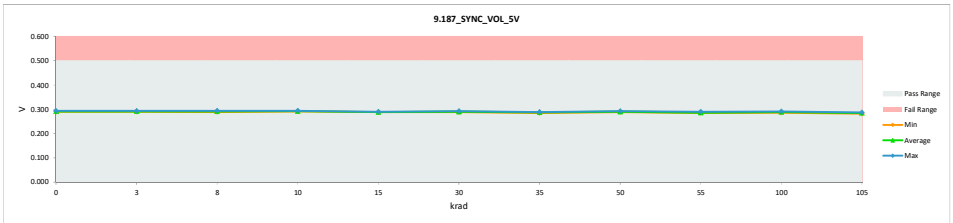
	9.187_SYNC_VOL_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.290	0.290	0.000
0	236	0.288	0.290	0.002
0	563	0.293	0.293	0.000
3	717	0.289	0.291	0.002
3	685	0.289	0.290	0.001
3	360	0.290	0.292	0.002
3	427	0.291	0.293	0.002
3	785	0.291	0.292	0.001
8	770	0.289	0.289	0.000
8	331	0.292	0.294	0.002
8	279	0.288	0.289	0.001
8	694	0.288	0.290	0.002
8	337	0.291	0.293	0.002
10	498	0.291	0.292	0.001
10	139	0.293	0.294	0.001
10	632	0.290	0.291	0.001
10	465	0.289	0.291	0.002
10	500	0.289	0.291	0.002
15	209	0.291	0.289	-0.002
15	720	0.290	0.288	-0.002
15	327	0.290	0.290	0.000
15	700	0.291	0.289	-0.002
15	851	0.290	0.288	-0.002
30	571	0.292	0.292	0.000
30	172	0.290	0.291	0.001
30	375	0.289	0.288	-0.001
30	445	0.292	0.291	-0.001
30	103	0.291	0.290	-0.001
35	119	0.290	0.287	-0.003
35	90	0.291	0.288	-0.003
35	297	0.290	0.289	-0.001
35	594	0.290	0.287	-0.003
35	586	0.288	0.284	-0.004
50	152	0.291	0.291	0.000
50	359	0.290	0.289	-0.001
50	126	0.293	0.291	-0.002
50	883	0.290	0.289	-0.001
50	117	0.293	0.292	-0.001
55	301	0.289	0.285	-0.004
55	593	0.290	0.286	-0.004
55	374	0.292	0.286	-0.006
55	650	0.291	0.286	-0.005
55	324	0.291	0.290	-0.001
100	562	0.292	0.291	-0.001
100	753	0.290	0.288	-0.002
100	547	0.289	0.286	-0.003
100	724	0.291	0.288	-0.003
100	534	0.291	0.289	-0.002
105	265	0.289	0.282	-0.007
105	482	0.290	0.285	-0.005
105	372	0.291	0.283	-0.008
105	308	0.290	0.285	-0.005
105	438	0.292	0.287	-0.005
	Max	0.293	0.294	0.002
	Average	0.290	0.289	-0.001
	Min	0.288	0.282	-0.008
	Std Dev	0.001	0.003	0.003



	9.187_SYNC_VOL_5V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	8	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	0.290	0.290	0.289	0.291	0.288	0.288	0.284	0.289	0.285	0.286	0.282
Average	0.291	0.292	0.291	0.292	0.289	0.290	0.287	0.290	0.287	0.288	0.284
Max	0.293	0.293	0.294	0.294	0.290	0.292	0.289	0.292	0.290	0.291	0.287
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

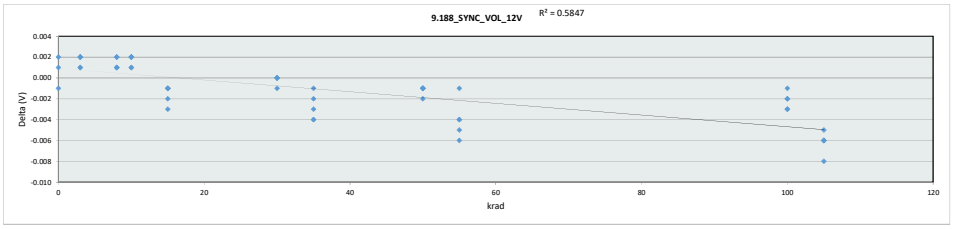


HDR TID Report
TPS7H5003-SP QMLP

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

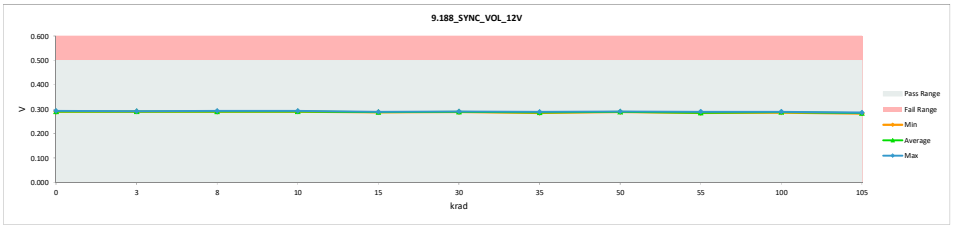
	9.188_SYNC_VOL_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.290	0.289	-0.001
0	236	0.287	0.289	0.002
0	563	0.292	0.293	0.001
3	717	0.289	0.290	0.001
3	685	0.288	0.290	0.002
3	360	0.289	0.291	0.002
3	427	0.291	0.292	0.001
3	785	0.290	0.292	0.002
8	770	0.288	0.289	0.001
8	331	0.291	0.293	0.002
8	279	0.287	0.289	0.002
8	694	0.288	0.289	0.001
8	337	0.291	0.292	0.001
10	498	0.290	0.291	0.001
10	139	0.292	0.293	0.001
10	632	0.289	0.291	0.002
10	465	0.288	0.290	0.002
10	500	0.288	0.290	0.002
15	209	0.291	0.288	-0.003
15	720	0.289	0.287	-0.002
15	327	0.290	0.289	-0.001
15	700	0.290	0.289	-0.001
15	851	0.289	0.288	-0.001
30	571	0.291	0.291	0.000
30	172	0.290	0.290	0.000
30	375	0.288	0.288	0.000
30	445	0.291	0.291	0.000
30	103	0.290	0.289	-0.001
35	119	0.290	0.286	-0.004
35	90	0.291	0.287	-0.004
35	297	0.290	0.289	-0.001
35	594	0.289	0.287	-0.002
35	586	0.287	0.284	-0.003
50	152	0.291	0.290	-0.001
50	359	0.290	0.288	-0.002
50	126	0.292	0.291	-0.001
50	883	0.289	0.288	-0.001
50	117	0.292	0.291	-0.001
55	301	0.289	0.284	-0.005
55	593	0.289	0.285	-0.004
55	374	0.291	0.285	-0.006
55	650	0.290	0.286	-0.004
55	324	0.291	0.290	-0.001
100	562	0.291	0.290	-0.001
100	753	0.290	0.288	-0.002
100	547	0.289	0.286	-0.003
100	724	0.290	0.287	-0.003
100	534	0.290	0.288	-0.002
105	265	0.288	0.282	-0.006
105	482	0.289	0.284	-0.005
105	372	0.291	0.283	-0.008
105	308	0.290	0.284	-0.006
105	438	0.292	0.286	-0.006
	Max	0.292	0.293	0.002
	Average	0.290	0.289	-0.001
	Min	0.287	0.282	-0.008
	Std Dev	0.001	0.003	0.003



	9.188_SYNC_VOL_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	8	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	0.289	0.290	0.289	0.290	0.287	0.288	0.284	0.288	0.284	0.286	0.282
Average	0.290	0.291	0.290	0.291	0.288	0.290	0.287	0.290	0.286	0.288	0.284
Max	0.293	0.292	0.293	0.293	0.289	0.291	0.289	0.291	0.290	0.290	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

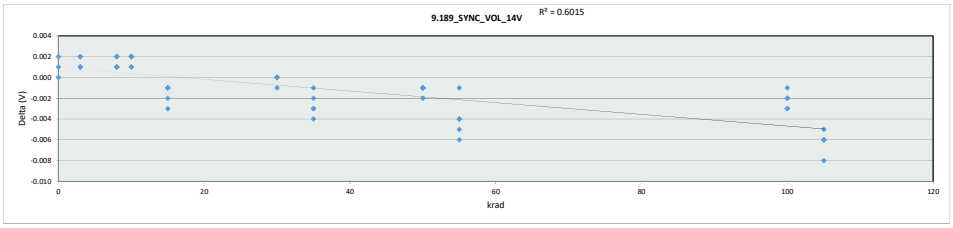


HDR TID Report
TPS7H5003-SP QMLP

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

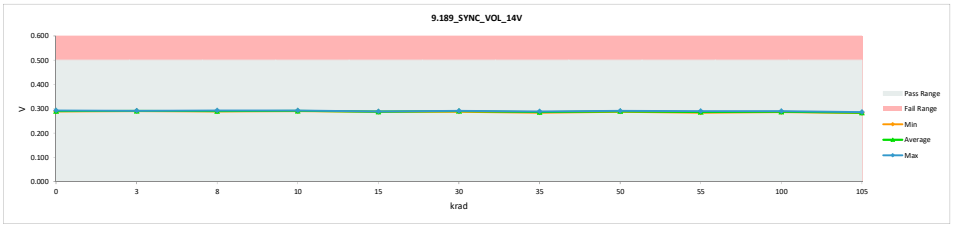
	9.189_SYNC_VOL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.289	0.289	0.000
0	236	0.287	0.289	0.002
0	563	0.292	0.293	0.001
3	717	0.289	0.290	0.001
3	685	0.289	0.290	0.001
3	360	0.289	0.291	0.002
3	427	0.291	0.292	0.001
3	785	0.290	0.292	0.002
8	770	0.288	0.289	0.001
8	331	0.291	0.293	0.002
8	279	0.287	0.289	0.002
8	694	0.288	0.289	0.001
8	337	0.291	0.292	0.001
10	498	0.290	0.291	0.001
10	139	0.292	0.293	0.001
10	632	0.289	0.291	0.002
10	465	0.288	0.290	0.002
10	500	0.288	0.290	0.002
15	209	0.291	0.288	-0.003
15	720	0.289	0.287	-0.002
15	327	0.290	0.289	-0.001
15	700	0.290	0.289	-0.001
15	851	0.289	0.288	-0.001
30	571	0.291	0.291	0.000
30	172	0.290	0.290	0.000
30	375	0.288	0.288	0.000
30	445	0.291	0.291	0.000
30	103	0.290	0.289	-0.001
35	119	0.289	0.286	-0.003
35	90	0.291	0.287	-0.004
35	297	0.290	0.289	-0.001
35	594	0.289	0.287	-0.002
35	586	0.287	0.284	-0.003
50	152	0.291	0.290	-0.001
50	359	0.290	0.288	-0.002
50	126	0.292	0.291	-0.001
50	883	0.289	0.288	-0.001
50	117	0.292	0.291	-0.001
55	301	0.289	0.284	-0.005
55	593	0.289	0.285	-0.004
55	374	0.291	0.285	-0.006
55	650	0.290	0.286	-0.004
55	324	0.291	0.290	-0.001
100	562	0.291	0.290	-0.001
100	753	0.290	0.288	-0.002
100	547	0.289	0.286	-0.003
100	724	0.290	0.287	-0.003
100	534	0.290	0.288	-0.002
105	265	0.288	0.282	-0.006
105	482	0.289	0.284	-0.005
105	372	0.291	0.283	-0.008
105	308	0.290	0.284	-0.006
105	438	0.292	0.286	-0.006
	Max	0.292	0.293	0.002
	Average	0.290	0.289	-0.001
	Min	0.287	0.282	-0.008
	Std Dev	0.001	0.003	0.003



	9.189_SYNC_VOL_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.5	V
Min Limit	0	V

krad	0	3	8	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	0.289	0.290	0.289	0.290	0.287	0.288	0.284	0.288	0.284	0.286	0.282
Average	0.290	0.291	0.290	0.291	0.288	0.290	0.287	0.290	0.286	0.288	0.284
Max	0.293	0.292	0.293	0.293	0.289	0.291	0.289	0.291	0.290	0.290	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

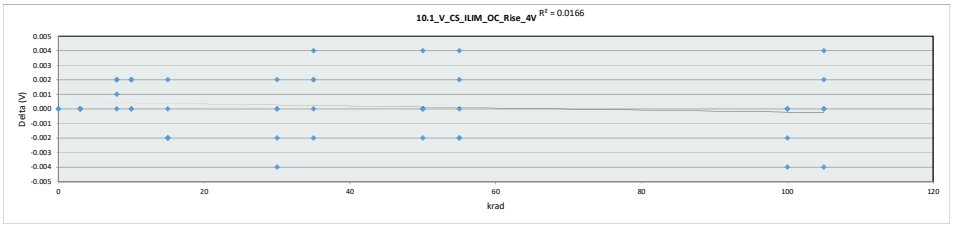


HDR TID Report
TPS7H5003-SP QMLP

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

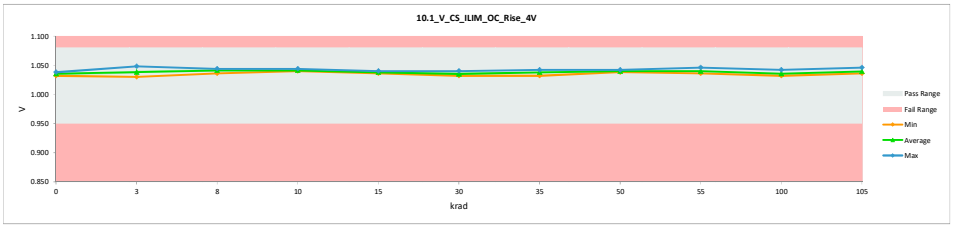
	10.1_V_CS_ILIM_OC_Rise_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.08	1.08
Min Limit	0.95	0.95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.038	1.038	0.000
0	236	1.036	1.036	0.000
0	563	1.032	1.032	0.000
3	717	1.030	1.030	0.000
3	685	1.040	1.040	0.000
3	360	1.048	1.048	0.000
3	427	1.036	1.036	0.000
3	785	1.036	1.036	0.000
8	770	1.043	1.044	0.001
8	331	1.042	1.044	0.002
8	279	1.036	1.038	0.002
8	694	1.042	1.044	0.002
8	337	1.036	1.036	0.000
10	498	1.040	1.040	0.000
10	139	1.040	1.040	0.000
10	632	1.042	1.044	0.002
10	465	1.040	1.042	0.002
10	500	1.038	1.040	0.002
15	209	1.038	1.036	-0.002
15	720	1.042	1.040	-0.002
15	327	1.040	1.038	-0.002
15	700	1.036	1.036	0.000
15	851	1.036	1.038	0.002
30	571	1.034	1.034	0.000
30	172	1.036	1.032	-0.004
30	375	1.038	1.036	-0.002
30	445	1.038	1.040	0.002
30	103	1.034	1.034	0.000
35	119	1.032	1.032	0.000
35	90	1.034	1.036	0.002
35	297	1.038	1.040	0.002
35	594	1.038	1.042	0.004
35	586	1.040	1.038	-0.002
50	152	1.038	1.038	0.000
50	359	1.040	1.040	0.000
50	126	1.040	1.038	-0.002
50	883	1.042	1.042	0.000
50	117	1.036	1.040	0.004
55	301	1.048	1.046	-0.002
55	593	1.034	1.036	0.002
55	374	1.040	1.038	-0.002
55	650	1.036	1.036	0.000
55	324	1.038	1.042	0.004
100	562	1.032	1.032	0.000
100	753	1.040	1.036	-0.004
100	547	1.042	1.042	0.000
100	724	1.032	1.032	0.000
100	534	1.038	1.036	-0.002
105	265	1.034	1.038	0.004
105	482	1.036	1.038	0.002
105	372	1.038	1.038	0.000
105	308	1.046	1.046	0.000
105	438	1.040	1.036	-0.004
	Max	1.048	1.048	0.004
	Average	1.038	1.038	0.000
	Min	1.030	1.030	-0.004
	Std Dev	0.004	0.004	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	8	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	1.032	1.030	1.036	1.040	1.036	1.032	1.032	1.038	1.036	1.032	1.036
Average	1.035	1.038	1.041	1.041	1.038	1.035	1.038	1.040	1.040	1.036	1.039
Max	1.038	1.048	1.044	1.044	1.040	1.040	1.042	1.042	1.046	1.042	1.046
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

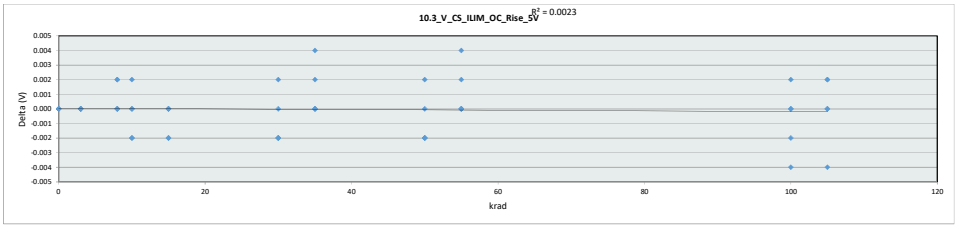


HDR TID Report
TPS7H5003-SP QMLP

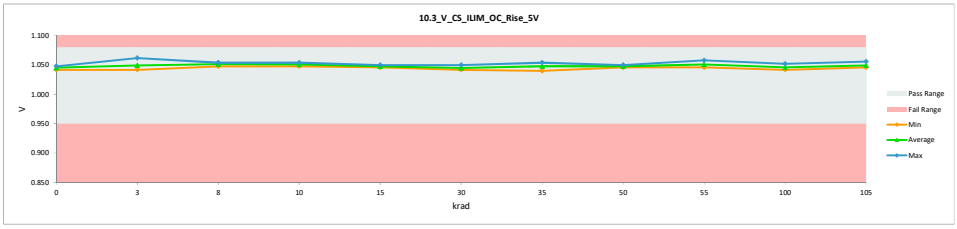
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	10.3_V_CS_ILIM_OC_Rise_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.08	1.08
Min Limit	0.95	0.95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.048	1.048	0.000
0	236	1.046	1.046	0.000
0	563	1.042	1.042	0.000
3	717	1.042	1.042	0.000
3	685	1.048	1.048	0.000
3	360	1.062	1.062	0.000
3	427	1.046	1.046	0.000
3	785	1.048	1.048	0.000
8	770	1.054	1.054	0.000
8	331	1.054	1.054	0.000
8	279	1.046	1.048	0.002
8	694	1.052	1.054	0.002
8	337	1.048	1.048	0.000
10	498	1.052	1.050	-0.002
10	139	1.050	1.048	-0.002
10	632	1.054	1.054	0.000
10	465	1.050	1.052	0.002
10	500	1.050	1.050	0.000
15	209	1.048	1.046	-0.002
15	720	1.050	1.048	-0.002
15	327	1.050	1.050	0.000
15	700	1.048	1.048	0.000
15	851	1.046	1.046	0.000
30	571	1.044	1.042	-0.002
30	172	1.046	1.044	-0.002
30	375	1.048	1.046	-0.002
30	445	1.048	1.050	0.002
30	103	1.044	1.044	0.000
35	119	1.040	1.040	0.000
35	90	1.046	1.046	0.000
35	297	1.048	1.050	0.002
35	594	1.050	1.054	0.004
35	586	1.050	1.050	0.000
50	152	1.048	1.048	0.000
50	359	1.050	1.048	-0.002
50	126	1.048	1.046	-0.002
50	883	1.052	1.050	-0.002
50	117	1.046	1.048	0.002
55	301	1.058	1.058	0.000
55	593	1.046	1.048	0.002
55	374	1.048	1.048	0.000
55	650	1.046	1.046	0.000
55	324	1.050	1.054	0.004
100	562	1.040	1.042	0.002
100	753	1.050	1.046	-0.004
100	547	1.052	1.052	0.000
100	724	1.042	1.042	0.000
100	534	1.050	1.048	-0.002
105	265	1.046	1.048	0.002
105	482	1.046	1.048	0.002
105	372	1.048	1.048	0.000
105	308	1.056	1.056	0.000
105	438	1.050	1.046	-0.004
	Max	1.062	1.062	0.004
	Average	1.048	1.048	0.000
	Min	1.040	1.040	-0.004
	Std Dev	0.004	0.004	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	8	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	1.042	1.042	1.048	1.048	1.046	1.042	1.040	1.046	1.046	1.042	1.046
Average	1.045	1.049	1.052	1.051	1.048	1.045	1.048	1.048	1.051	1.046	1.049
Max	1.048	1.062	1.054	1.054	1.050	1.050	1.054	1.050	1.058	1.052	1.056
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

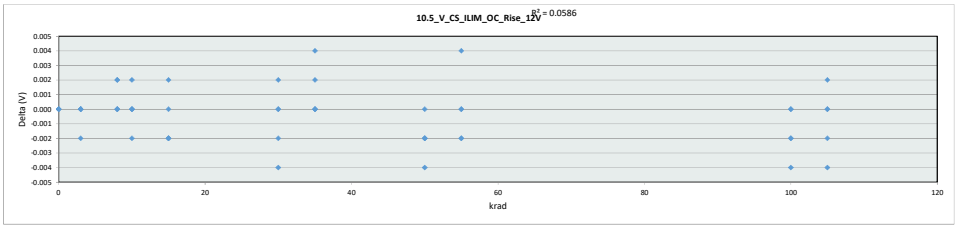


HDR TID Report
TPS7H5003-SP QMLP

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

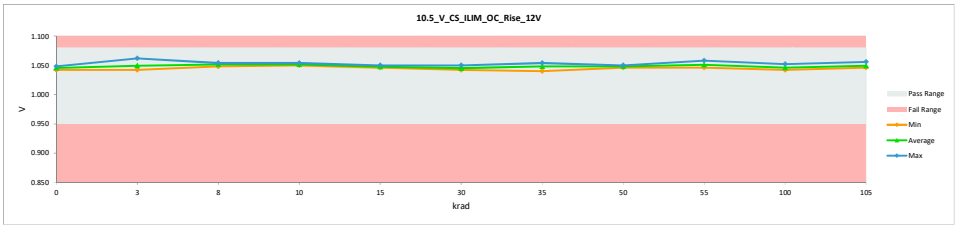
	10.5_V_CS_ILIM_OC_Rise_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.08	1.08
Min Limit	0.95	0.95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.048	1.048	0.000
0	236	1.046	1.046	0.000
0	563	1.042	1.042	0.000
3	717	1.044	1.042	-0.002
3	685	1.048	1.048	0.000
3	360	1.062	1.062	0.000
3	427	1.046	1.046	0.000
3	785	1.048	1.048	0.000
8	770	1.054	1.054	0.000
8	331	1.054	1.054	0.000
8	279	1.046	1.048	0.002
8	694	1.052	1.054	0.002
8	337	1.048	1.048	0.000
10	498	1.052	1.050	-0.002
10	139	1.050	1.050	0.000
10	632	1.054	1.054	0.000
10	465	1.050	1.052	0.002
10	500	1.050	1.050	0.000
15	209	1.048	1.046	-0.002
15	720	1.050	1.048	-0.002
15	327	1.052	1.050	-0.002
15	700	1.048	1.048	0.000
15	851	1.044	1.046	0.002
30	571	1.044	1.044	0.000
30	172	1.046	1.042	-0.004
30	375	1.048	1.046	-0.002
30	445	1.048	1.050	0.002
30	103	1.044	1.044	0.000
35	119	1.040	1.040	0.000
35	90	1.046	1.046	0.000
35	297	1.048	1.050	0.002
35	594	1.050	1.054	0.004
35	586	1.050	1.050	0.000
50	152	1.050	1.048	-0.002
50	359	1.050	1.048	-0.002
50	126	1.048	1.046	-0.002
50	883	1.054	1.050	-0.004
50	117	1.048	1.048	0.000
55	301	1.060	1.058	-0.002
55	593	1.048	1.048	0.000
55	374	1.050	1.048	-0.002
55	650	1.046	1.046	0.000
55	324	1.050	1.054	0.004
100	562	1.042	1.042	0.000
100	753	1.050	1.046	-0.004
100	547	1.054	1.052	-0.002
100	724	1.042	1.042	0.000
100	534	1.050	1.048	-0.002
105	265	1.046	1.048	0.002
105	482	1.048	1.048	0.000
105	372	1.050	1.048	-0.002
105	308	1.056	1.056	0.000
105	438	1.050	1.046	-0.004
	Max	1.062	1.062	0.004
	Average	1.049	1.048	0.000
	Min	1.040	1.040	-0.004
	Std Dev	0.004	0.004	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	8	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	1.042	1.042	1.048	1.050	1.046	1.042	1.040	1.046	1.046	1.042	1.046
Average	1.045	1.049	1.052	1.051	1.048	1.045	1.048	1.048	1.051	1.046	1.049
Max	1.048	1.062	1.054	1.054	1.050	1.050	1.054	1.050	1.058	1.052	1.056
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

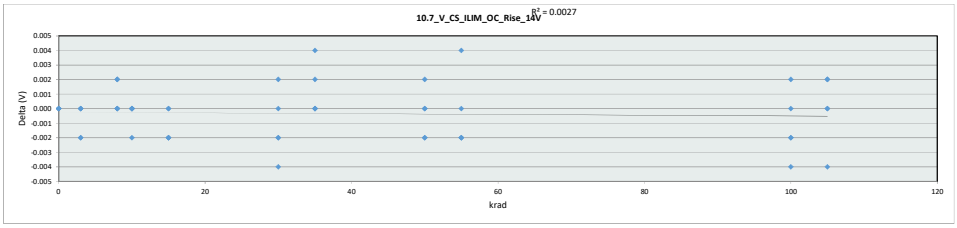


HDR TID Report
TPS7H5003-SP QMLP

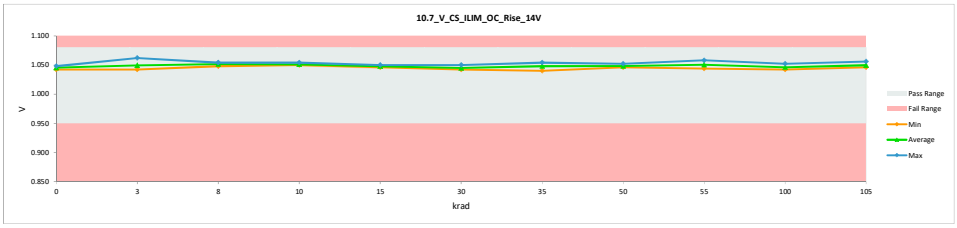
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	10.7_V_CS_ILIM_OC_Rise_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.08	1.08
Min Limit	0.95	0.95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	1.048	1.048	0.000
0	236	1.046	1.046	0.000
0	563	1.042	1.042	0.000
3	717	1.044	1.042	-0.002
3	685	1.048	1.048	0.000
3	360	1.062	1.062	0.000
3	427	1.046	1.046	0.000
3	785	1.050	1.048	-0.002
8	770	1.054	1.054	0.000
8	331	1.054	1.054	0.000
8	279	1.046	1.048	0.002
8	694	1.052	1.054	0.002
8	337	1.048	1.048	0.000
10	498	1.052	1.050	-0.002
10	139	1.050	1.050	0.000
10	632	1.054	1.054	0.000
10	465	1.052	1.052	0.000
10	500	1.050	1.050	0.000
15	209	1.048	1.046	-0.002
15	720	1.050	1.048	-0.002
15	327	1.052	1.050	-0.002
15	700	1.048	1.048	0.000
15	851	1.046	1.046	0.000
30	571	1.044	1.042	-0.002
30	172	1.046	1.042	-0.004
30	375	1.048	1.046	-0.002
30	445	1.048	1.050	0.002
30	103	1.044	1.044	0.000
35	119	1.040	1.040	0.000
35	90	1.046	1.046	0.000
35	297	1.048	1.050	0.002
35	594	1.050	1.054	0.004
35	586	1.050	1.050	0.000
50	152	1.048	1.048	0.000
50	359	1.050	1.048	-0.002
50	126	1.048	1.046	-0.002
50	883	1.052	1.052	0.000
50	117	1.046	1.048	0.002
55	301	1.060	1.058	-0.002
55	593	1.048	1.048	0.000
55	374	1.050	1.048	-0.002
55	650	1.046	1.044	-0.002
55	324	1.050	1.054	0.004
100	562	1.040	1.042	0.002
100	753	1.050	1.046	-0.004
100	547	1.054	1.052	-0.002
100	724	1.042	1.042	0.000
100	534	1.050	1.048	-0.002
105	265	1.046	1.048	0.002
105	482	1.048	1.050	0.002
105	372	1.048	1.048	0.000
105	308	1.056	1.056	0.000
105	438	1.050	1.046	-0.004
	Max	1.062	1.062	0.004
	Average	1.049	1.048	0.000
	Min	1.040	1.040	-0.004
	Std Dev	0.004	0.004	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	8	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	1.042	1.042	1.048	1.050	1.046	1.042	1.040	1.046	1.044	1.042	1.046
Average	1.045	1.049	1.052	1.051	1.048	1.045	1.048	1.048	1.050	1.046	1.050
Max	1.048	1.062	1.054	1.054	1.050	1.050	1.054	1.052	1.058	1.052	1.056
UL	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

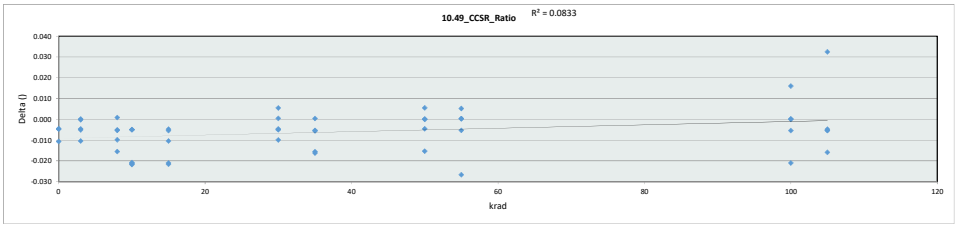


HDR TID Report
TPS7H5003-SP QMLP

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

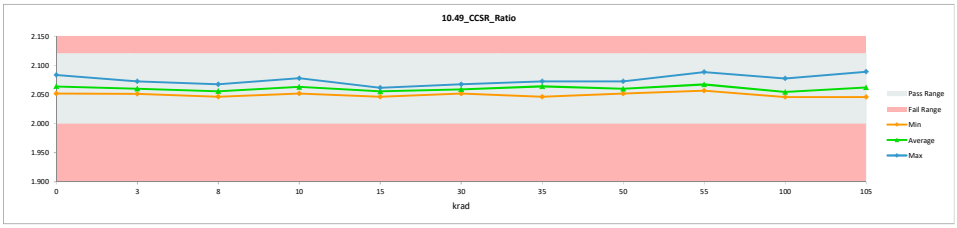
10.49_CCSR_Ratio		
Test Site		
Tester		
Test Number		
Unit		
Max Limit	2.12	2.12
Min Limit	2	2

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	2.056	2.051	-0.005
0	236	2.088	2.083	-0.005
0	563	2.067	2.056	-0.011
3	717	2.067	2.062	-0.005
3	685	2.062	2.056	-0.005
3	360	2.056	2.057	0.000
3	427	2.073	2.072	0.000
3	785	2.061	2.051	-0.010
8	770	2.072	2.067	-0.005
8	331	2.072	2.067	-0.005
8	279	2.051	2.051	0.001
8	694	2.056	2.046	-0.010
8	337	2.062	2.046	-0.016
10	498	2.067	2.062	-0.005
10	139	2.099	2.078	-0.022
10	632	2.061	2.056	-0.005
10	465	2.088	2.067	-0.021
10	500	2.072	2.051	-0.021
15	209	2.067	2.046	-0.021
15	720	2.072	2.051	-0.022
15	327	2.072	2.061	-0.010
15	700	2.067	2.061	-0.005
15	851	2.061	2.056	-0.005
30	571	2.067	2.067	0.000
30	172	2.056	2.062	0.005
30	375	2.067	2.062	-0.005
30	445	2.061	2.051	-0.010
30	103	2.056	2.051	-0.005
35	119	2.067	2.067	0.000
35	90	2.089	2.072	-0.016
35	297	2.073	2.067	-0.006
35	594	2.061	2.046	-0.016
35	586	2.072	2.067	-0.005
50	152	2.062	2.061	0.000
50	359	2.067	2.051	-0.015
50	126	2.067	2.072	0.005
50	883	2.056	2.051	-0.005
50	117	2.062	2.062	0.000
55	301	2.099	2.072	-0.027
55	593	2.062	2.056	-0.005
55	374	2.056	2.056	0.000
55	650	2.083	2.088	0.005
55	324	2.062	2.062	0.000
100	562	2.072	2.051	-0.021
100	753	2.062	2.078	0.016
100	547	2.051	2.046	-0.005
100	724	2.051	2.051	0.000
100	534	2.046	2.046	0.000
105	265	2.072	2.067	-0.005
105	482	2.057	2.089	0.032
105	372	2.056	2.051	-0.005
105	308	2.061	2.056	-0.005
105	438	2.062	2.046	-0.016
	Max	2.099	2.089	0.032
	Average	2.066	2.060	-0.006
	Min	2.046	2.046	-0.027
	Std Dev	0.011	0.011	0.010



10.49_CCSR_Ratio	
Test Site	
Tester	
Test Number	
Max Limit	2.12
Min Limit	2

krad	0	3	8	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	2.046	2.051	2.046	2.051	2.046	2.051	2.056	2.046	2.046
Average	2.064	2.060	2.055	2.063	2.055	2.059	2.064	2.060	2.067	2.054	2.062
Max	2.083	2.072	2.067	2.078	2.061	2.067	2.072	2.072	2.088	2.078	2.089
UL	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120	2.120

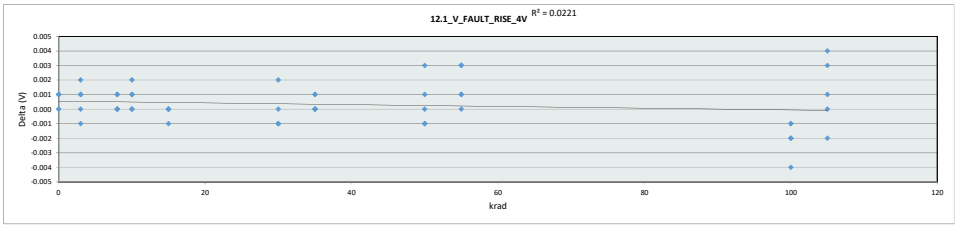


HDR TID Report
TPS7H5003-SP QMLP

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

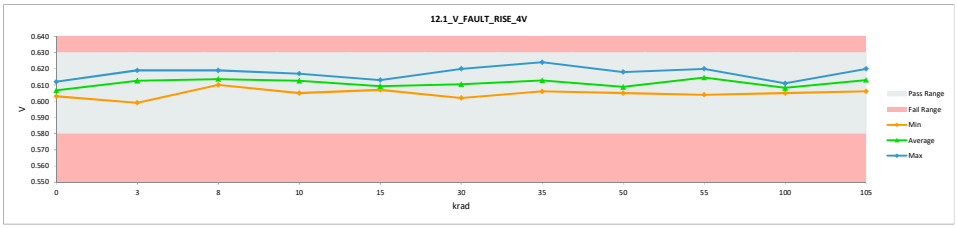
	12.1_V_FAULT_RISE_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.58	0.58

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.604	0.605	0.001
0	236	0.611	0.612	0.001
0	563	0.603	0.603	0.000
3	717	0.613	0.615	0.002
3	685	0.619	0.619	0.000
3	360	0.615	0.616	0.001
3	427	0.613	0.614	0.001
3	785	0.600	0.599	-0.001
8	770	0.616	0.616	0.000
8	331	0.610	0.610	0.000
8	279	0.619	0.619	0.000
8	694	0.611	0.612	0.001
8	337	0.610	0.611	0.001
10	498	0.616	0.617	0.001
10	139	0.605	0.605	0.000
10	632	0.613	0.613	0.000
10	465	0.611	0.612	0.001
10	500	0.614	0.616	0.002
15	209	0.611	0.611	0.000
15	720	0.608	0.607	-0.001
15	327	0.613	0.613	0.000
15	700	0.608	0.608	0.000
15	851	0.607	0.607	0.000
30	571	0.606	0.608	0.002
30	172	0.618	0.617	-0.001
30	375	0.606	0.605	-0.001
30	445	0.602	0.602	0.000
30	103	0.621	0.620	-0.001
35	119	0.606	0.606	0.000
35	90	0.609	0.609	0.000
35	297	0.611	0.611	0.000
35	594	0.613	0.614	0.001
35	586	0.623	0.624	0.001
50	152	0.615	0.618	0.003
50	359	0.608	0.607	-0.001
50	126	0.606	0.605	-0.001
50	883	0.608	0.609	0.001
50	117	0.605	0.605	0.000
55	301	0.616	0.617	0.001
55	593	0.617	0.620	0.003
55	374	0.604	0.604	0.000
55	650	0.611	0.612	0.001
55	324	0.617	0.620	0.003
100	562	0.611	0.607	-0.004
100	753	0.609	0.608	-0.001
100	547	0.612	0.610	-0.002
100	724	0.613	0.611	-0.002
100	534	0.606	0.605	-0.001
105	265	0.616	0.620	0.004
105	482	0.614	0.614	0.000
105	372	0.605	0.606	0.001
105	308	0.609	0.612	0.003
105	438	0.615	0.613	-0.002
	Max	0.623	0.624	0.004
	Average	0.611	0.611	0.000
	Min	0.600	0.599	-0.004
	Std Dev	0.005	0.006	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	8	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	0.599	0.610	0.605	0.607	0.602	0.606	0.605	0.604	0.605	0.606
Average	0.607	0.613	0.614	0.613	0.609	0.610	0.613	0.609	0.615	0.608	0.613
Max	0.612	0.619	0.619	0.617	0.613	0.620	0.624	0.618	0.620	0.611	0.620
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

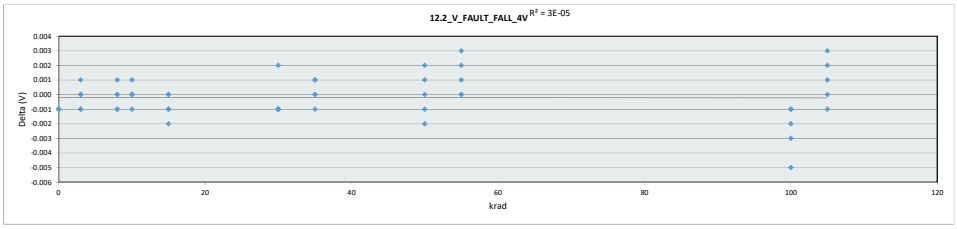


HDR TID Report
TPS7H5003-SP QMLP

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

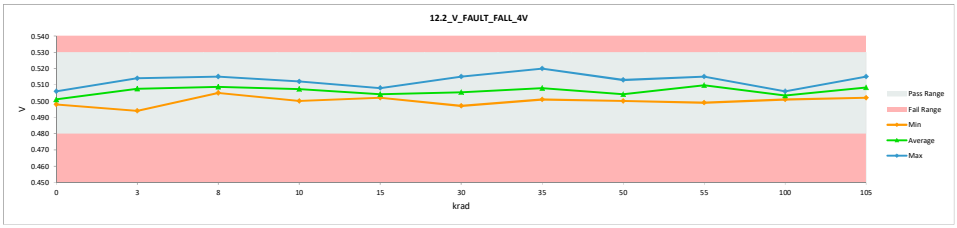
	12.2_V_FAULT_FALL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.500	0.499	-0.001
0	236	0.507	0.506	-0.001
0	563	0.499	0.498	-0.001
3	717	0.510	0.510	0.000
3	685	0.515	0.514	-0.001
3	360	0.510	0.511	0.001
3	427	0.509	0.509	0.000
3	785	0.495	0.494	-0.001
8	770	0.512	0.512	0.000
8	331	0.506	0.505	-0.001
8	279	0.515	0.515	0.000
8	694	0.506	0.507	0.001
8	337	0.506	0.505	-0.001
10	498	0.512	0.512	0.000
10	139	0.500	0.500	0.000
10	632	0.509	0.508	-0.001
10	465	0.506	0.506	0.000
10	500	0.510	0.511	0.001
15	209	0.506	0.506	0.000
15	720	0.504	0.502	-0.002
15	327	0.509	0.508	-0.001
15	700	0.504	0.503	-0.001
15	851	0.502	0.502	0.000
30	571	0.501	0.503	0.002
30	172	0.513	0.512	-0.001
30	375	0.501	0.500	-0.001
30	445	0.498	0.497	-0.001
30	103	0.516	0.515	-0.001
35	119	0.501	0.501	0.000
35	90	0.505	0.504	-0.001
35	297	0.506	0.506	0.000
35	594	0.508	0.509	0.001
35	586	0.519	0.520	0.001
50	152	0.511	0.513	0.002
50	359	0.504	0.502	-0.002
50	126	0.501	0.500	-0.001
50	883	0.504	0.505	0.001
50	117	0.501	0.501	0.000
55	301	0.512	0.512	0.000
55	593	0.512	0.515	0.003
55	374	0.499	0.499	0.000
55	650	0.507	0.508	0.001
55	324	0.513	0.515	0.002
100	562	0.507	0.502	-0.005
100	753	0.504	0.503	-0.001
100	547	0.507	0.505	-0.002
100	724	0.509	0.506	-0.003
100	534	0.502	0.501	-0.001
105	265	0.512	0.515	0.003
105	482	0.509	0.509	0.000
105	372	0.501	0.502	0.001
105	308	0.505	0.507	0.002
105	438	0.510	0.509	-0.001
	Max	0.519	0.520	0.003
	Average	0.507	0.506	0.000
	Min	0.495	0.494	-0.005
	Std Dev	0.005	0.006	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	8	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	0.494	0.505	0.500	0.502	0.497	0.501	0.500	0.499	0.501	0.502
Average	0.501	0.508	0.509	0.507	0.504	0.505	0.508	0.504	0.510	0.503	0.508
Max	0.506	0.514	0.515	0.512	0.508	0.515	0.520	0.513	0.515	0.506	0.515
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

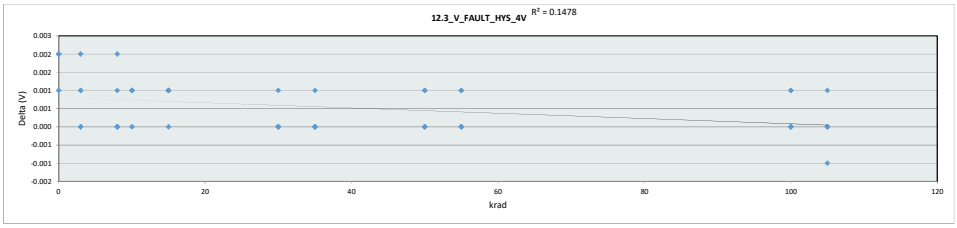


HDR TID Report
TPS7H5003-SP QMLP

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

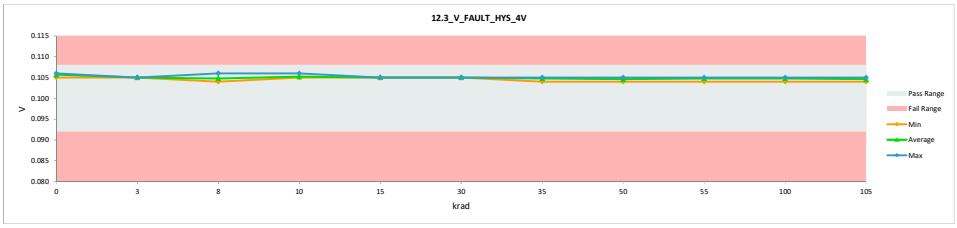
	12.3_V_FAULT_HYS_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.108	0.108
Min Limit	0.092	0.092

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.104	0.106	0.002
0	236	0.104	0.106	0.002
0	563	0.104	0.105	0.001
3	717	0.103	0.105	0.002
3	685	0.104	0.105	0.001
3	360	0.105	0.105	0.000
3	427	0.104	0.105	0.001
3	785	0.105	0.105	0.000
8	770	0.104	0.104	0.000
8	331	0.104	0.105	0.001
8	279	0.104	0.104	0.000
8	694	0.105	0.105	0.000
8	337	0.104	0.106	0.002
10	498	0.104	0.105	0.001
10	139	0.105	0.105	0.000
10	632	0.104	0.105	0.001
10	465	0.105	0.106	0.001
10	500	0.104	0.105	0.001
15	209	0.104	0.105	0.001
15	720	0.104	0.105	0.001
15	327	0.104	0.105	0.001
15	700	0.104	0.105	0.001
15	851	0.105	0.105	0.000
30	571	0.105	0.105	0.000
30	172	0.105	0.105	0.000
30	375	0.105	0.105	0.000
30	445	0.104	0.105	0.001
30	103	0.105	0.105	0.000
35	119	0.105	0.105	0.000
35	90	0.104	0.105	0.001
35	297	0.105	0.105	0.000
35	594	0.105	0.105	0.000
35	586	0.104	0.104	0.000
50	152	0.104	0.105	0.001
50	359	0.104	0.105	0.001
50	126	0.105	0.105	0.000
50	883	0.104	0.104	0.000
50	117	0.104	0.104	0.000
55	301	0.104	0.105	0.001
55	593	0.105	0.105	0.000
55	374	0.105	0.105	0.000
55	650	0.104	0.104	0.000
55	324	0.104	0.105	0.001
100	562	0.104	0.105	0.001
100	753	0.105	0.105	0.000
100	547	0.105	0.105	0.000
100	724	0.104	0.105	0.001
100	534	0.104	0.104	0.000
105	265	0.105	0.105	0.000
105	482	0.105	0.105	0.000
105	372	0.104	0.104	0.000
105	308	0.104	0.105	0.001
105	438	0.105	0.104	-0.001
	Max	0.105	0.106	0.002
	Average	0.104	0.105	0.001
	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	8	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	0.105	0.105	0.104	0.105	0.105	0.105	0.104	0.104	0.104	0.104	0.104
Average	0.106	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
Max	0.106	0.105	0.106	0.106	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

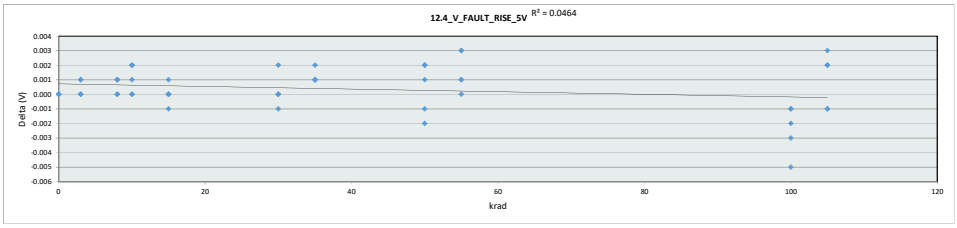


HDR TID Report
TPS7H5003-SP QMLP

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

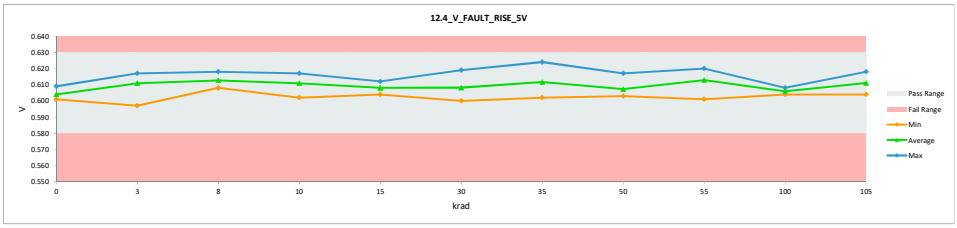
	12.4_V_FAULT_RISE_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.58	0.58

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.602	0.602	0.000
0	236	0.609	0.609	0.000
0	563	0.601	0.601	0.000
3	717	0.612	0.613	0.001
3	685	0.617	0.617	0.000
3	360	0.614	0.615	0.001
3	427	0.612	0.612	0.000
3	785	0.597	0.597	0.000
8	770	0.615	0.616	0.001
8	331	0.607	0.608	0.001
8	279	0.618	0.618	0.000
8	694	0.610	0.611	0.001
8	337	0.610	0.610	0.000
10	498	0.615	0.617	0.002
10	139	0.601	0.602	0.001
10	632	0.612	0.612	0.000
10	465	0.608	0.608	0.000
10	500	0.613	0.615	0.002
15	209	0.610	0.611	0.001
15	720	0.607	0.606	-0.001
15	327	0.612	0.612	0.000
15	700	0.607	0.607	0.000
15	851	0.604	0.604	0.000
30	571	0.603	0.605	0.002
30	172	0.616	0.616	0.000
30	375	0.601	0.601	0.000
30	445	0.600	0.600	0.000
30	103	0.620	0.619	-0.001
35	119	0.601	0.602	0.001
35	90	0.607	0.608	0.001
35	297	0.609	0.610	0.001
35	594	0.612	0.614	0.002
35	586	0.623	0.624	0.001
50	152	0.615	0.617	0.002
50	359	0.607	0.605	-0.002
50	126	0.604	0.603	-0.001
50	883	0.606	0.608	0.002
50	117	0.602	0.603	0.001
55	301	0.615	0.616	0.001
55	593	0.615	0.618	0.003
55	374	0.601	0.601	0.000
55	650	0.608	0.609	0.001
55	324	0.617	0.620	0.003
100	562	0.609	0.604	-0.005
100	753	0.607	0.606	-0.001
100	547	0.610	0.608	-0.002
100	724	0.611	0.608	-0.003
100	534	0.605	0.604	-0.001
105	265	0.615	0.618	0.003
105	482	0.613	0.612	-0.001
105	372	0.602	0.604	0.002
105	308	0.609	0.611	0.002
105	438	0.611	0.610	-0.001
	Max	0.623	0.624	0.003
	Average	0.609	0.610	0.000
	Min	0.597	0.597	-0.005
	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	8	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	0.601	0.597	0.608	0.602	0.604	0.600	0.602	0.603	0.601	0.604	0.604
Average	0.604	0.611	0.613	0.611	0.608	0.608	0.612	0.607	0.613	0.606	0.611
Max	0.609	0.617	0.618	0.617	0.612	0.619	0.624	0.617	0.620	0.608	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

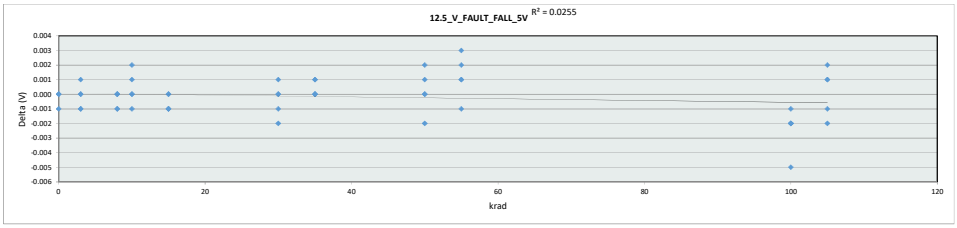


HDR TID Report
TPS7H5003-SP QMLP

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

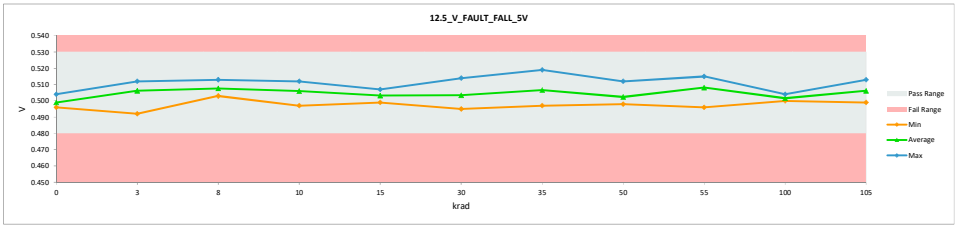
	12.5_V_FAULT_FALL_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.497	0.497	0.000
0	236	0.504	0.504	0.000
0	563	0.497	0.496	-0.001
3	717	0.508	0.509	0.001
3	685	0.513	0.512	-0.001
3	360	0.510	0.510	0.000
3	427	0.508	0.508	0.000
3	785	0.493	0.492	-0.001
8	770	0.511	0.511	0.000
8	331	0.503	0.503	0.000
8	279	0.514	0.513	-0.001
8	694	0.506	0.506	0.000
8	337	0.506	0.505	-0.001
10	498	0.511	0.512	0.001
10	139	0.497	0.497	0.000
10	632	0.508	0.507	-0.001
10	465	0.503	0.503	0.000
10	500	0.509	0.511	0.002
15	209	0.506	0.506	0.000
15	720	0.503	0.502	-0.001
15	327	0.507	0.507	0.000
15	700	0.503	0.502	-0.001
15	851	0.500	0.499	-0.001
30	571	0.499	0.500	0.001
30	172	0.511	0.511	0.000
30	375	0.497	0.497	0.000
30	445	0.496	0.495	-0.001
30	103	0.516	0.514	-0.002
35	119	0.497	0.497	0.000
35	90	0.503	0.503	0.000
35	297	0.504	0.505	0.001
35	594	0.508	0.509	0.001
35	586	0.519	0.519	0.000
50	152	0.511	0.512	0.001
50	359	0.502	0.500	-0.002
50	126	0.499	0.499	0.000
50	883	0.501	0.503	0.002
50	117	0.498	0.498	0.000
55	301	0.511	0.512	0.001
55	593	0.511	0.514	0.003
55	374	0.497	0.496	-0.001
55	650	0.503	0.504	0.001
55	324	0.513	0.515	0.002
100	562	0.505	0.500	-0.005
100	753	0.502	0.501	-0.001
100	547	0.505	0.503	-0.002
100	724	0.506	0.504	-0.002
100	534	0.502	0.500	-0.002
105	265	0.511	0.513	0.002
105	482	0.509	0.508	-0.001
105	372	0.498	0.499	0.001
105	308	0.505	0.506	0.001
105	438	0.507	0.505	-0.002
	Max	0.519	0.519	0.003
	Average	0.505	0.505	0.000
	Min	0.493	0.492	-0.005
	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	8	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	0.492	0.503	0.497	0.499	0.495	0.497	0.498	0.496	0.500	0.499
Average	0.499	0.506	0.508	0.506	0.503	0.503	0.507	0.502	0.508	0.502	0.506
Max	0.504	0.512	0.513	0.512	0.507	0.514	0.519	0.512	0.515	0.504	0.513
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

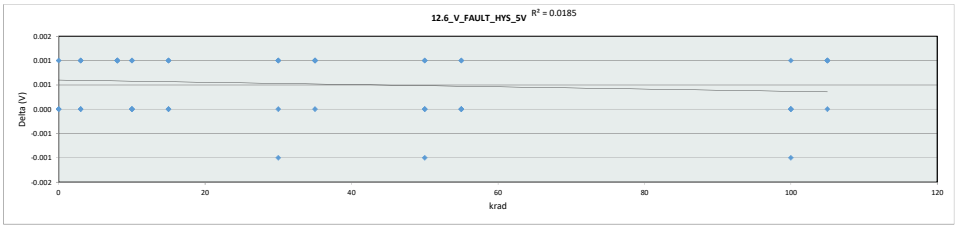


HDR TID Report
TPS7H5003-SP QMLP

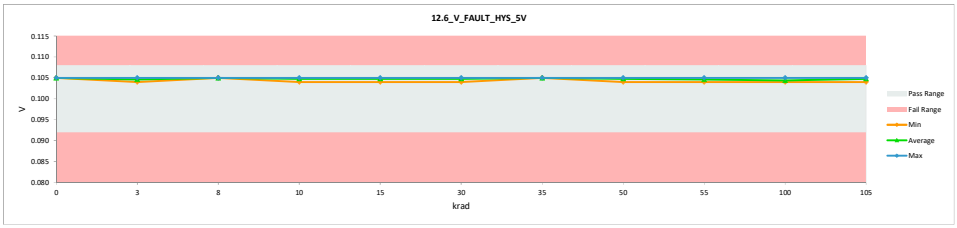
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	12.6_V_FAULT_HYS_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.108	0.108
Min Limit	0.092	0.092

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.105	0.105	0.000
0	236	0.105	0.105	0.000
0	563	0.104	0.105	0.001
3	717	0.104	0.104	0.000
3	685	0.104	0.105	0.001
3	360	0.104	0.105	0.001
3	427	0.104	0.104	0.000
3	785	0.104	0.105	0.001
8	770	0.104	0.105	0.001
8	331	0.104	0.105	0.001
8	279	0.104	0.105	0.001
8	694	0.104	0.105	0.001
8	337	0.104	0.105	0.001
10	498	0.105	0.105	0.000
10	139	0.104	0.105	0.001
10	632	0.104	0.105	0.001
10	465	0.105	0.105	0.000
10	500	0.104	0.104	0.000
15	209	0.104	0.105	0.001
15	720	0.104	0.104	0.000
15	327	0.105	0.105	0.000
15	700	0.104	0.105	0.001
15	851	0.104	0.105	0.001
30	571	0.104	0.105	0.001
30	172	0.105	0.105	0.000
30	375	0.105	0.104	-0.001
30	445	0.104	0.105	0.001
30	103	0.104	0.105	0.001
35	119	0.104	0.105	0.001
35	90	0.104	0.105	0.001
35	297	0.105	0.105	0.000
35	594	0.104	0.105	0.001
35	586	0.104	0.105	0.001
50	152	0.104	0.105	0.001
50	359	0.105	0.105	0.000
50	126	0.105	0.104	-0.001
50	883	0.105	0.105	0.000
50	117	0.104	0.105	0.001
55	301	0.104	0.104	0.000
55	593	0.104	0.104	0.000
55	374	0.104	0.105	0.001
55	650	0.105	0.105	0.000
55	324	0.104	0.105	0.001
100	562	0.104	0.104	0.000
100	753	0.105	0.105	0.000
100	547	0.105	0.105	0.000
100	724	0.105	0.104	-0.001
100	534	0.103	0.104	0.001
105	265	0.104	0.105	0.001
105	482	0.104	0.104	0.000
105	372	0.104	0.105	0.001
105	308	0.104	0.105	0.001
105	438	0.104	0.105	0.001
	Max	0.105	0.105	0.001
	Average	0.104	0.105	0.001
	Min	0.103	0.104	-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	8	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	0.105	0.104	0.105	0.104	0.104	0.104	0.105	0.104	0.104	0.104	0.104
Average	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.104	0.105
Max	0.105	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

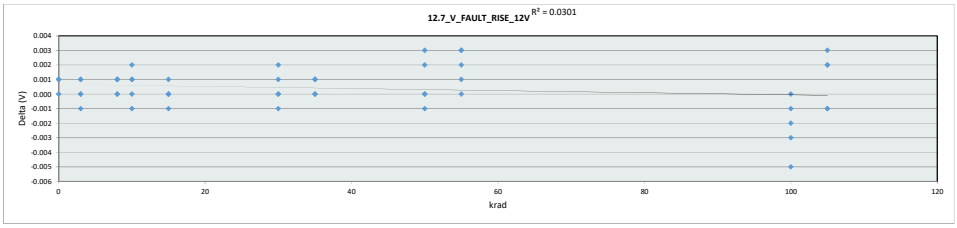


HDR TID Report
TPS7H5003-SP QMLP

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

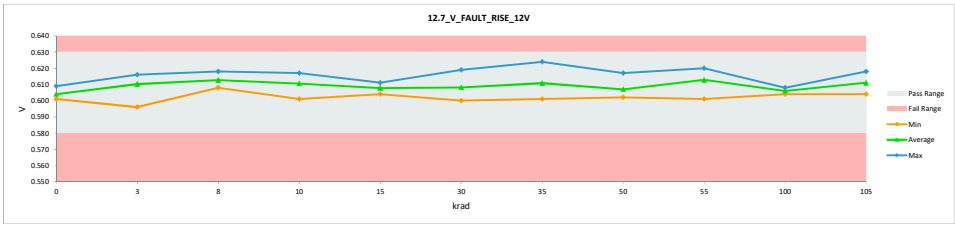
	12.7_V_FAULT_RISE_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.58	0.58

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.601	0.602	0.001
0	236	0.608	0.609	0.001
0	563	0.601	0.601	0.000
3	717	0.612	0.613	0.001
3	685	0.617	0.616	-0.001
3	360	0.614	0.614	0.000
3	427	0.611	0.612	0.001
3	785	0.596	0.596	0.000
8	770	0.615	0.616	0.001
8	331	0.607	0.608	0.001
8	279	0.618	0.618	0.000
8	694	0.610	0.611	0.001
8	337	0.610	0.610	0.000
10	498	0.616	0.617	0.001
10	139	0.601	0.601	0.000
10	632	0.613	0.612	-0.001
10	465	0.607	0.608	0.001
10	500	0.613	0.615	0.002
15	209	0.610	0.611	0.001
15	720	0.607	0.606	-0.001
15	327	0.611	0.611	0.000
15	700	0.607	0.607	0.000
15	851	0.604	0.604	0.000
30	571	0.603	0.605	0.002
30	172	0.615	0.616	0.001
30	375	0.601	0.601	0.000
30	445	0.600	0.600	0.000
30	103	0.620	0.619	-0.001
35	119	0.601	0.601	0.000
35	90	0.607	0.607	0.000
35	297	0.608	0.609	0.001
35	594	0.612	0.613	0.001
35	586	0.623	0.624	0.001
50	152	0.615	0.617	0.002
50	359	0.606	0.605	-0.001
50	126	0.603	0.603	0.000
50	883	0.605	0.608	0.003
50	117	0.602	0.602	0.000
55	301	0.615	0.616	0.001
55	593	0.615	0.618	0.003
55	374	0.601	0.601	0.000
55	650	0.607	0.609	0.002
55	324	0.617	0.620	0.003
100	562	0.609	0.604	-0.005
100	753	0.606	0.606	0.000
100	547	0.610	0.608	-0.002
100	724	0.611	0.608	-0.003
100	534	0.605	0.604	-0.001
105	265	0.615	0.618	0.003
105	482	0.613	0.612	-0.001
105	372	0.602	0.604	0.002
105	308	0.609	0.611	0.002
105	438	0.611	0.610	-0.001
	Max	0.623	0.624	0.003
	Average	0.609	0.609	0.000
	Min	0.596	0.596	-0.005
	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	8	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	0.601	0.596	0.608	0.601	0.604	0.600	0.601	0.602	0.601	0.604	0.604
Average	0.604	0.610	0.613	0.611	0.608	0.608	0.611	0.607	0.613	0.606	0.611
Max	0.609	0.616	0.618	0.617	0.611	0.619	0.624	0.617	0.620	0.608	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

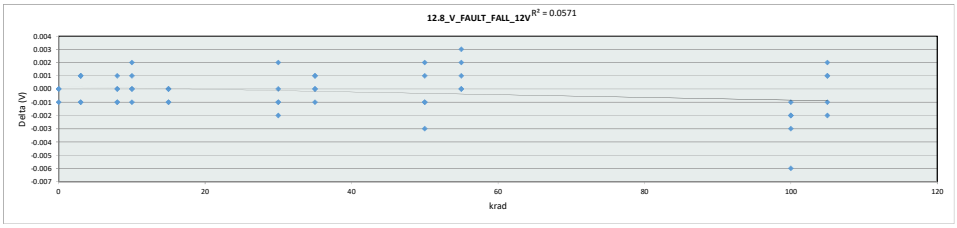


HDR TID Report
TPS7H5003-SP QMLP

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

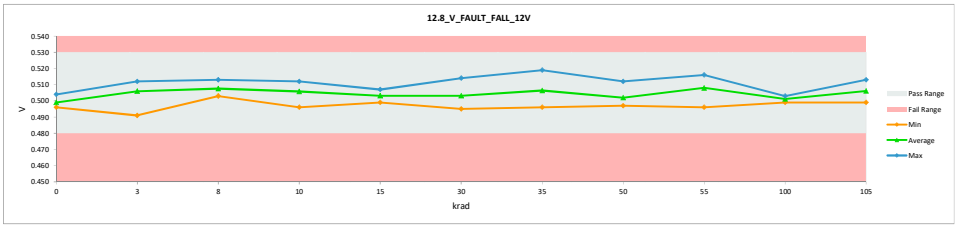
	12.8_V_FAULT_FALL_12V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.497	0.497	0.000
0	236	0.504	0.504	0.000
0	563	0.497	0.496	-0.001
3	717	0.508	0.509	0.001
3	685	0.513	0.512	-0.001
3	360	0.509	0.510	0.001
3	427	0.507	0.508	0.001
3	785	0.492	0.491	-0.001
8	770	0.511	0.511	0.000
8	331	0.503	0.503	0.000
8	279	0.514	0.513	-0.001
8	694	0.505	0.506	0.001
8	337	0.506	0.505	-0.001
10	498	0.511	0.512	0.001
10	139	0.496	0.496	0.000
10	632	0.508	0.507	-0.001
10	465	0.503	0.503	0.000
10	500	0.509	0.511	0.002
15	209	0.506	0.506	0.000
15	720	0.503	0.502	-0.001
15	327	0.507	0.507	0.000
15	700	0.503	0.502	-0.001
15	851	0.499	0.499	0.000
30	571	0.498	0.500	0.002
30	172	0.511	0.511	0.000
30	375	0.497	0.496	-0.001
30	445	0.496	0.495	-0.001
30	103	0.516	0.514	-0.002
35	119	0.497	0.496	-0.001
35	90	0.503	0.503	0.000
35	297	0.504	0.505	0.001
35	594	0.508	0.509	0.001
35	586	0.519	0.519	0.000
50	152	0.511	0.512	0.001
50	359	0.503	0.500	-0.003
50	126	0.499	0.498	-0.001
50	883	0.501	0.503	0.002
50	117	0.498	0.497	-0.001
55	301	0.511	0.511	0.000
55	593	0.511	0.513	0.002
55	374	0.496	0.496	0.000
55	650	0.503	0.504	0.001
55	324	0.513	0.516	0.003
100	562	0.505	0.499	-0.006
100	753	0.502	0.501	-0.001
100	547	0.505	0.503	-0.002
100	724	0.506	0.503	-0.003
100	534	0.502	0.500	-0.002
105	265	0.511	0.513	0.002
105	482	0.509	0.508	-0.001
105	372	0.498	0.499	0.001
105	308	0.505	0.506	0.001
105	438	0.507	0.505	-0.002
	Max	0.519	0.519	0.003
	Average	0.505	0.505	0.000
	Min	0.492	0.491	-0.006
	Std Dev	0.006	0.006	0.002



	12.8_V_FAULT_FALL_12V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.48	V

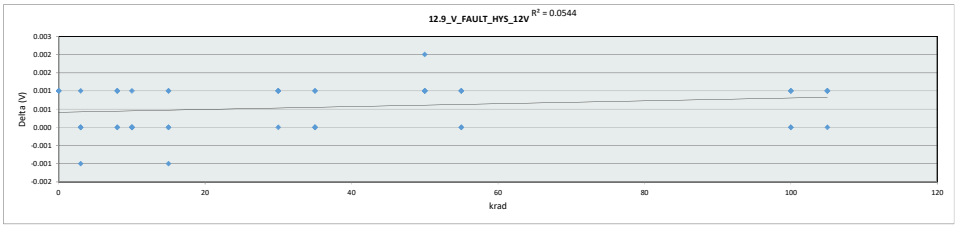
krad	0	3	8	10	15	30	35	50	55	100	105
LL	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
Min	0.496	0.491	0.503	0.496	0.499	0.495	0.496	0.497	0.496	0.499	0.499
Average	0.499	0.506	0.508	0.506	0.503	0.503	0.506	0.502	0.508	0.501	0.506
Max	0.504	0.512	0.513	0.512	0.507	0.514	0.519	0.512	0.516	0.503	0.513
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530



HDR TID Report
TPS7H5003-SP QMLP

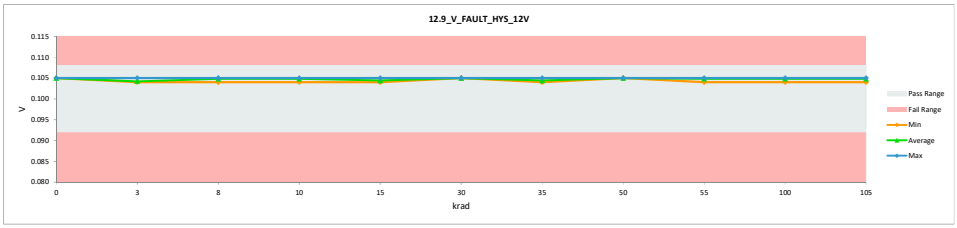
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	12.9_V_FAULT_HYS_12V		
Test Site			
Tester			
Test Number			
Unit	V	V	
Max Limit	0.108	0.108	
Min Limit	0.092	0.092	
krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.104	0.105	0.001
0	236	0.104	0.105	0.001
0	563	0.104	0.105	0.001
3	717	0.104	0.104	0.000
3	685	0.104	0.104	0.000
3	360	0.105	0.104	-0.001
3	427	0.104	0.104	0.000
3	785	0.104	0.105	0.001
8	770	0.104	0.105	0.001
8	331	0.104	0.104	0.000
8	279	0.104	0.105	0.001
8	694	0.105	0.105	0.000
8	337	0.104	0.105	0.001
10	498	0.105	0.105	0.000
10	139	0.105	0.105	0.000
10	632	0.105	0.105	0.000
10	465	0.104	0.105	0.001
10	500	0.104	0.104	0.000
15	209	0.104	0.105	0.001
15	720	0.104	0.104	0.000
15	327	0.104	0.104	0.000
15	700	0.104	0.105	0.001
15	851	0.105	0.104	-0.001
30	571	0.105	0.105	0.000
30	172	0.104	0.105	0.001
30	375	0.104	0.105	0.001
30	445	0.104	0.105	0.001
30	103	0.104	0.105	0.001
35	119	0.104	0.105	0.001
35	90	0.104	0.104	0.000
35	297	0.104	0.104	0.000
35	594	0.104	0.104	0.000
35	586	0.104	0.105	0.001
50	152	0.104	0.105	0.001
50	359	0.103	0.105	0.002
50	126	0.104	0.105	0.001
50	883	0.104	0.105	0.001
50	117	0.104	0.105	0.001
55	301	0.104	0.105	0.001
55	593	0.104	0.105	0.001
55	374	0.105	0.105	0.000
55	650	0.104	0.105	0.001
55	324	0.104	0.104	0.000
100	562	0.104	0.105	0.001
100	753	0.104	0.105	0.001
100	547	0.105	0.105	0.000
100	724	0.105	0.105	0.000
100	534	0.103	0.104	0.001
105	265	0.104	0.105	0.001
105	482	0.104	0.104	0.000
105	372	0.104	0.105	0.001
105	308	0.104	0.105	0.001
105	438	0.104	0.105	0.001
	Max	0.105	0.105	0.002
	Average	0.104	0.105	0.001
	Min	0.103	0.104	-0.001
	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	8	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	0.105	0.104	0.104	0.104	0.104	0.105	0.104	0.105	0.104	0.104	0.104
Average	0.105	0.104	0.105	0.105	0.104	0.105	0.104	0.105	0.105	0.105	0.105
Max	0.105	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

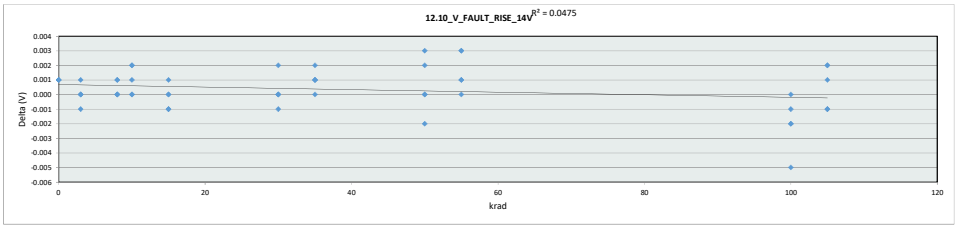


HDR TID Report
TPS7H5003-SP QMLP

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

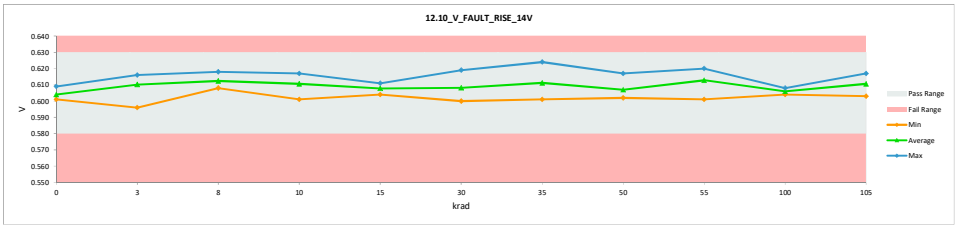
	12.10_V_FAULT_RISE_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.58	0.58

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.601	0.602	0.001
0	236	0.608	0.609	0.001
0	563	0.600	0.601	0.001
3	717	0.612	0.613	0.001
3	685	0.617	0.616	-0.001
3	360	0.614	0.614	0.000
3	427	0.612	0.612	0.000
3	785	0.596	0.596	0.000
8	770	0.615	0.616	0.001
8	331	0.607	0.608	0.001
8	279	0.618	0.618	0.000
8	694	0.610	0.610	0.000
8	337	0.610	0.610	0.000
10	498	0.615	0.617	0.002
10	139	0.601	0.601	0.000
10	632	0.612	0.612	0.000
10	465	0.607	0.608	0.001
10	500	0.613	0.615	0.002
15	209	0.610	0.611	0.001
15	720	0.607	0.606	-0.001
15	327	0.612	0.611	-0.001
15	700	0.607	0.607	0.000
15	851	0.604	0.604	0.000
30	571	0.603	0.605	0.002
30	172	0.616	0.616	0.000
30	375	0.601	0.601	0.000
30	445	0.600	0.600	0.000
30	103	0.620	0.619	-0.001
35	119	0.601	0.601	0.000
35	90	0.607	0.608	0.001
35	297	0.608	0.609	0.001
35	594	0.612	0.614	0.002
35	586	0.623	0.624	0.001
50	152	0.615	0.617	0.002
50	359	0.607	0.605	-0.002
50	126	0.603	0.603	0.000
50	883	0.605	0.608	0.003
50	117	0.602	0.602	0.000
55	301	0.615	0.616	0.001
55	593	0.615	0.618	0.003
55	374	0.601	0.601	0.000
55	650	0.608	0.609	0.001
55	324	0.617	0.620	0.003
100	562	0.609	0.604	-0.005
100	753	0.606	0.606	0.000
100	547	0.610	0.608	-0.002
100	724	0.610	0.608	-0.002
100	534	0.605	0.604	-0.001
105	265	0.615	0.617	0.002
105	482	0.613	0.612	-0.001
105	372	0.602	0.603	0.001
105	308	0.609	0.611	0.002
105	438	0.611	0.610	-0.001
	Max	0.623	0.624	0.003
	Average	0.609	0.609	0.000
	Min	0.596	0.596	-0.005
	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	8	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	0.601	0.596	0.608	0.601	0.604	0.600	0.601	0.602	0.601	0.604	0.603
Average	0.604	0.610	0.612	0.611	0.608	0.608	0.611	0.607	0.613	0.606	0.611
Max	0.609	0.616	0.618	0.617	0.611	0.619	0.624	0.617	0.620	0.608	0.617
UL	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630	0.630

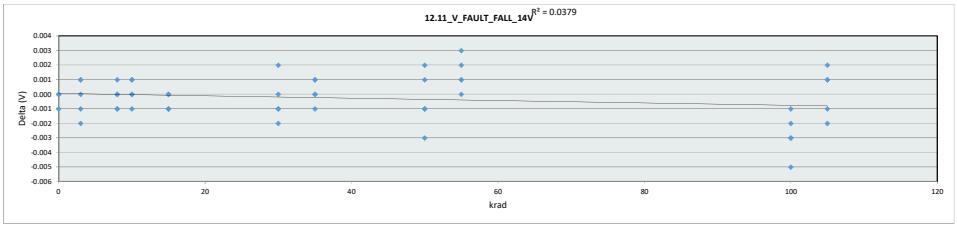


HDR TID Report
TPS7H5003-SP QMLP

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

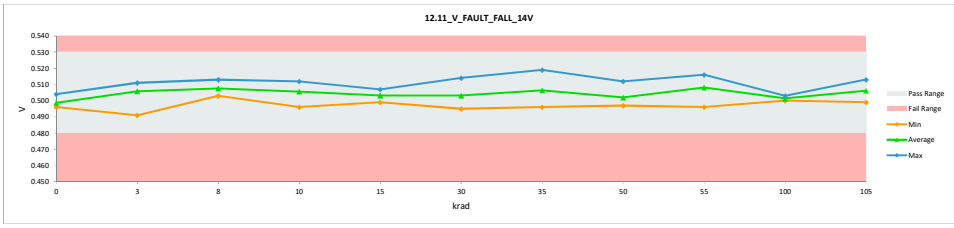
	12.11_V_FAULT_FALL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.48	0.48

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.497	0.496	-0.001
0	236	0.504	0.504	0.000
0	563	0.496	0.496	0.000
3	717	0.508	0.509	0.001
3	685	0.513	0.511	-0.002
3	360	0.510	0.510	0.000
3	427	0.507	0.508	0.001
3	785	0.492	0.491	-0.001
8	770	0.511	0.511	0.000
8	331	0.503	0.503	0.000
8	279	0.514	0.513	-0.001
8	694	0.505	0.506	0.001
8	337	0.506	0.505	-0.001
10	498	0.511	0.512	0.001
10	139	0.496	0.496	0.000
10	632	0.508	0.507	-0.001
10	465	0.503	0.503	0.000
10	500	0.509	0.510	0.001
15	209	0.506	0.506	0.000
15	720	0.503	0.502	-0.001
15	327	0.508	0.507	-0.001
15	700	0.503	0.502	-0.001
15	851	0.499	0.499	0.000
30	571	0.498	0.500	0.002
30	172	0.511	0.511	0.000
30	375	0.497	0.496	-0.001
30	445	0.496	0.495	-0.001
30	103	0.516	0.514	-0.002
35	119	0.497	0.496	-0.001
35	90	0.503	0.503	0.000
35	297	0.504	0.505	0.001
35	594	0.508	0.509	0.001
35	586	0.519	0.519	0.000
50	152	0.511	0.512	0.001
50	359	0.503	0.500	-0.003
50	126	0.499	0.498	-0.001
50	883	0.501	0.503	0.002
50	117	0.498	0.497	-0.001
55	301	0.511	0.512	0.001
55	593	0.511	0.513	0.002
55	374	0.496	0.496	0.000
55	650	0.503	0.504	0.001
55	324	0.513	0.516	0.003
100	562	0.505	0.500	-0.005
100	753	0.502	0.501	-0.001
100	547	0.506	0.503	-0.003
100	724	0.506	0.503	-0.003
100	534	0.502	0.500	-0.002
105	265	0.511	0.513	0.002
105	482	0.509	0.508	-0.001
105	372	0.498	0.499	0.001
105	308	0.505	0.506	0.001
105	438	0.507	0.505	-0.002
	Max	0.519	0.519	0.003
	Average	0.505	0.505	0.000
	Min	0.492	0.491	-0.005
	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	8	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	0.491	0.503	0.496	0.499	0.495	0.496	0.497	0.496	0.500	0.499
Average	0.499	0.506	0.508	0.506	0.503	0.503	0.506	0.502	0.508	0.501	0.506
Max	0.504	0.511	0.513	0.512	0.507	0.514	0.519	0.512	0.516	0.503	0.513
UL	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530

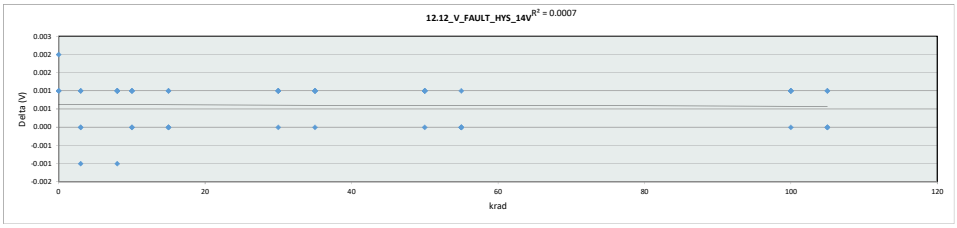


HDR TID Report
TPS7H5003-SP QMLP

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

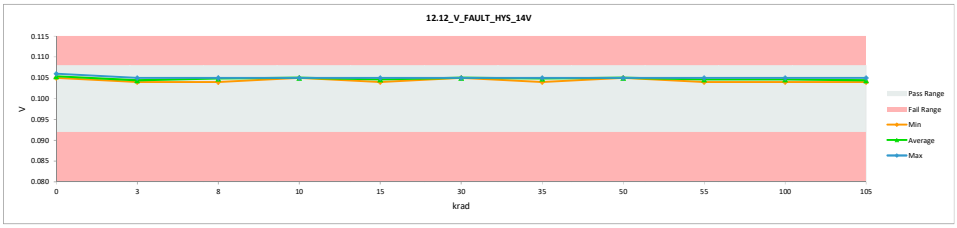
	12.12_V_FAULT_HYS_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.108	0.108
Min Limit	0.092	0.092

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.104	0.106	0.002
0	236	0.104	0.105	0.001
0	563	0.104	0.105	0.001
3	717	0.104	0.104	0.000
3	685	0.104	0.105	0.001
3	360	0.104	0.104	0.000
3	427	0.105	0.104	-0.001
3	785	0.104	0.105	0.001
8	770	0.104	0.105	0.001
8	331	0.104	0.105	0.001
8	279	0.104	0.105	0.001
8	694	0.105	0.104	-0.001
8	337	0.104	0.105	0.001
10	498	0.105	0.105	0.000
10	139	0.105	0.105	0.000
10	632	0.104	0.105	0.001
10	465	0.104	0.105	0.001
10	500	0.104	0.105	0.001
15	209	0.104	0.105	0.001
15	720	0.104	0.104	0.000
15	327	0.104	0.104	0.000
15	700	0.104	0.105	0.001
15	851	0.105	0.105	0.000
30	571	0.105	0.105	0.000
30	172	0.104	0.105	0.001
30	375	0.104	0.105	0.001
30	445	0.104	0.105	0.001
30	103	0.104	0.105	0.001
35	119	0.104	0.105	0.001
35	90	0.104	0.105	0.001
35	297	0.104	0.104	0.000
35	594	0.104	0.105	0.001
35	586	0.104	0.105	0.001
50	152	0.104	0.105	0.001
50	359	0.104	0.105	0.001
50	126	0.105	0.105	0.000
50	883	0.104	0.105	0.001
50	117	0.104	0.105	0.001
55	301	0.104	0.104	0.000
55	593	0.104	0.105	0.001
55	374	0.105	0.105	0.000
55	650	0.105	0.105	0.000
55	324	0.104	0.104	0.000
100	562	0.104	0.104	0.000
100	753	0.104	0.105	0.001
100	547	0.104	0.105	0.001
100	724	0.104	0.105	0.001
100	534	0.103	0.104	0.001
105	265	0.104	0.104	0.000
105	482	0.104	0.104	0.000
105	372	0.104	0.104	0.000
105	308	0.104	0.105	0.001
105	438	0.104	0.105	0.001
	Max	0.105	0.106	0.002
	Average	0.104	0.105	0.001
	Min	0.103	0.104	-0.001
	Std Dev	0.000	0.000	0.001



	12.12_V_FAULT_HYS_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.108	V
Min Limit	0.092	V

krad	0	3	8	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	0.105	0.104	0.104	0.105	0.104	0.105	0.104	0.105	0.104	0.104	0.104
Average	0.105	0.104	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.104
Max	0.106	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

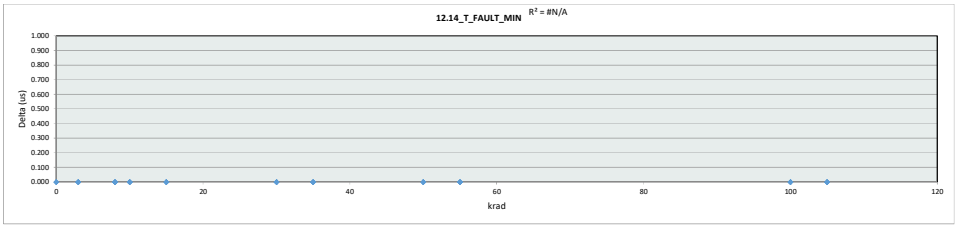


HDR TID Report
TPS7H5003-SP QMLP

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

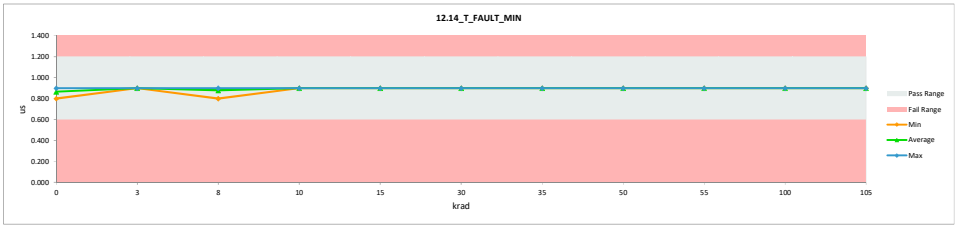
	12.14_T_FAULT_MIN	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	1.2	1.2
Min Limit	0.6	0.6

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	0.900	0.900	0.000
0	236	0.800	0.800	0.000
0	563	0.900	0.900	0.000
3	717	0.900	0.900	0.000
3	685	0.900	0.900	0.000
3	360	0.900	0.900	0.000
3	427	0.900	0.900	0.000
3	785	0.900	0.900	0.000
8	770	0.900	0.900	0.000
8	331	0.900	0.900	0.000
8	279	0.800	0.800	0.000
8	694	0.900	0.900	0.000
8	337	0.900	0.900	0.000
10	498	0.900	0.900	0.000
10	139	0.900	0.900	0.000
10	632	0.900	0.900	0.000
10	465	0.900	0.900	0.000
10	500	0.900	0.900	0.000
15	209	0.900	0.900	0.000
15	720	0.900	0.900	0.000
15	327	0.900	0.900	0.000
15	700	0.900	0.900	0.000
15	851	0.900	0.900	0.000
30	571	0.900	0.900	0.000
30	172	0.900	0.900	0.000
30	375	0.900	0.900	0.000
30	445	0.900	0.900	0.000
30	103	0.900	0.900	0.000
35	119	0.900	0.900	0.000
35	90	0.900	0.900	0.000
35	297	0.900	0.900	0.000
35	594	0.900	0.900	0.000
35	586	0.900	0.900	0.000
50	152	0.900	0.900	0.000
50	359	0.900	0.900	0.000
50	126	0.900	0.900	0.000
50	883	0.900	0.900	0.000
50	117	0.900	0.900	0.000
55	301	0.900	0.900	0.000
55	593	0.900	0.900	0.000
55	374	0.900	0.900	0.000
55	650	0.900	0.900	0.000
55	324	0.900	0.900	0.000
100	562	0.900	0.900	0.000
100	753	0.900	0.900	0.000
100	547	0.900	0.900	0.000
100	724	0.900	0.900	0.000
100	534	0.900	0.900	0.000
105	265	0.900	0.900	0.000
105	482	0.900	0.900	0.000
105	372	0.900	0.900	0.000
105	308	0.900	0.900	0.000
105	438	0.900	0.900	0.000
	Max	0.900	0.900	0.000
	Average	0.896	0.896	0.000
	Min	0.800	0.800	0.000
	Std Dev	0.019	0.019	0.000



	12.14_T_FAULT_MIN	
Test Site		
Tester		
Test Number		
Max Limit	1.2	us
Min Limit	0.6	us

krad	0	3	8	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	0.800	0.900	0.800	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
Average	0.867	0.900	0.880	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900
Max	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	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

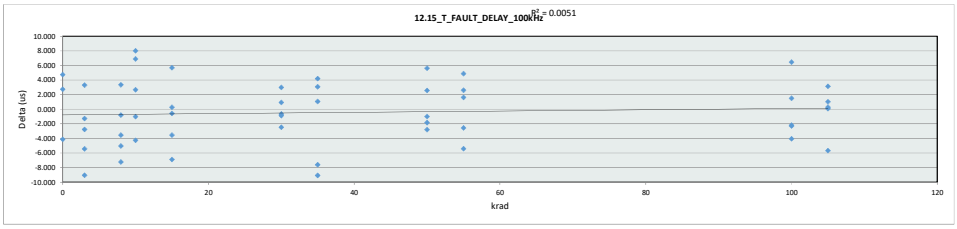


HDR TID Report
TPS7H5003-SP QMLP

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

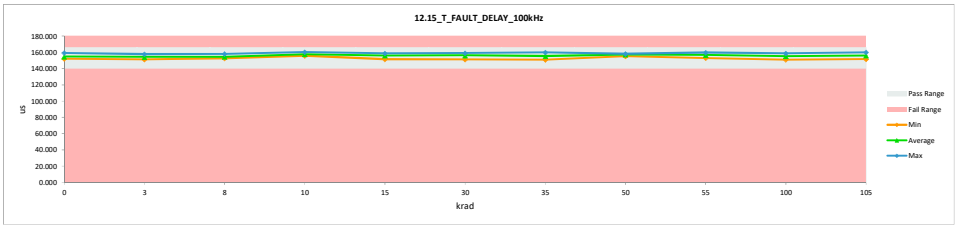
	12.15_T_FAULT_DELAY_100kHz	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	166	166
Min Limit	140	140

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	154.570	159.343	4.773
0	236	156.218	152.118	-4.100
0	563	150.629	153.384	2.755
3	717	153.219	156.547	3.328
3	685	154.525	151.791	-2.734
3	360	159.086	157.838	-1.248
3	427	159.783	154.381	-5.402
3	785	160.309	151.297	-9.012
8	770	158.120	153.103	-5.017
8	331	154.713	158.095	3.382
8	279	159.916	152.722	-7.194
8	694	155.799	155.016	-0.783
8	337	157.741	154.226	-3.515
10	498	153.210	155.904	2.694
10	139	152.401	160.440	8.039
10	632	160.232	155.993	-4.239
10	465	153.514	160.429	6.915
10	500	157.067	156.079	-0.988
15	209	160.225	156.708	-3.517
15	720	157.318	157.618	0.300
15	327	156.681	156.137	-0.544
15	700	158.393	151.530	-6.863
15	851	153.117	158.835	5.718
30	571	151.935	151.305	-0.630
30	172	155.264	158.282	3.018
30	375	157.659	158.625	0.966
30	445	156.649	154.196	-2.453
30	103	159.913	159.059	-0.854
35	119	158.483	150.901	-7.582
35	90	160.072	151.028	-9.044
35	297	155.417	156.507	1.090
35	594	154.793	159.018	4.225
35	586	156.847	159.944	3.097
50	152	156.993	155.171	-1.822
50	359	152.301	157.947	5.646
50	126	159.130	158.166	-0.964
50	883	160.141	157.369	-2.772
50	117	155.652	158.247	2.595
55	301	155.585	153.055	-2.530
55	593	159.688	154.297	-5.391
55	374	152.729	157.626	4.897
55	650	157.215	158.851	1.636
55	324	157.172	159.809	2.637
100	562	153.388	154.920	1.532
100	753	153.334	151.073	-2.261
100	547	152.296	158.770	6.474
100	724	160.136	156.108	-4.028
100	534	158.132	155.982	-2.150
105	265	158.545	159.606	1.061
105	482	160.033	154.390	-5.643
105	372	151.533	151.628	0.095
105	308	159.880	160.195	0.315
105	438	151.865	155.032	3.167
	Max	160.309	160.440	8.039
	Average	156.407	155.974	-0.433
	Min	150.629	150.901	-9.044
	Std Dev	2.886	2.906	4.202



	12.15_T_FAULT_DELAY_100kH	
Test Site		
Tester		
Test Number		
Max Limit	166	us
Min Limit	140	us

krad	0	3	8	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	152.118	151.297	152.722	155.904	151.530	151.305	150.901	155.171	153.055	151.073	151.628
Average	154.948	154.371	154.632	157.769	156.166	156.293	155.480	157.380	156.728	155.371	156.170
Max	159.343	157.838	158.095	160.440	158.835	159.059	159.944	158.247	159.809	158.770	160.195
UL	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000	166.000

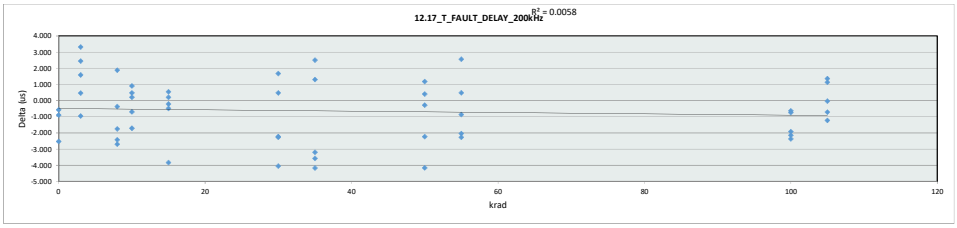


HDR TID Report
TPS7H5003-SP QMLP

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

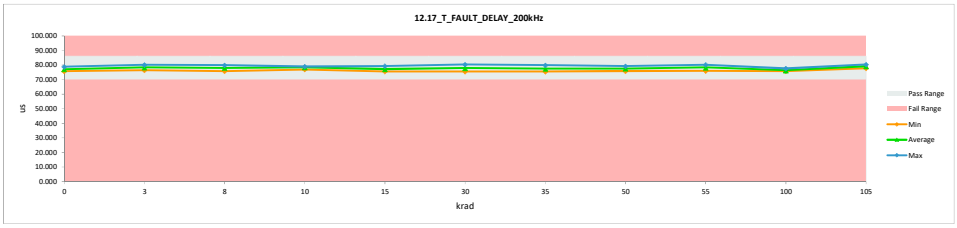
	12.17_T_FAULT_DELAY_200kHz	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	86	86
Min Limit	70	70

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	78.268	75.753	-2.515
0	236	77.593	76.711	-0.882
0	563	79.369	78.815	-0.554
3	717	75.998	76.478	0.480
3	685	79.698	78.759	-0.939
3	360	76.211	79.542	3.331
3	427	75.617	77.215	1.598
3	785	77.665	80.123	2.458
8	770	80.108	77.696	-2.412
8	331	79.636	79.278	-0.358
8	279	79.108	77.371	-1.737
8	694	78.474	75.794	-2.680
8	337	78.019	79.912	1.893
10	498	78.328	78.819	0.491
10	139	78.549	78.775	0.226
10	632	78.702	77.006	-1.696
10	465	79.543	78.861	-0.682
10	500	78.056	78.978	0.922
15	209	77.613	77.411	-0.202
15	720	78.761	79.322	0.561
15	327	76.264	76.481	0.217
15	700	77.771	77.296	-0.475
15	851	79.478	75.661	-3.817
30	571	78.656	80.346	1.690
30	172	79.602	80.093	0.491
30	375	80.454	76.414	-4.040
30	445	79.319	77.113	-2.206
30	103	77.805	75.544	-2.261
35	119	79.990	76.809	-3.181
35	90	77.379	79.896	2.517
35	297	80.348	76.193	-4.155
35	594	78.090	79.404	1.314
35	586	79.061	75.502	-3.559
50	152	78.803	79.224	0.421
50	359	80.042	75.893	-4.149
50	126	77.750	77.481	-0.269
50	883	77.298	78.492	1.194
50	117	79.283	77.068	-2.215
55	301	77.198	79.772	2.574
55	593	78.254	75.998	-2.256
55	374	79.059	77.035	-2.024
55	650	79.738	80.231	0.493
55	324	79.632	78.782	-0.850
100	562	77.941	76.032	-1.909
100	753	78.361	76.234	-2.127
100	547	78.296	77.675	-0.621
100	724	78.198	75.848	-2.350
100	534	76.913	76.185	-0.728
105	265	78.545	77.846	-0.699
105	482	79.056	80.202	1.146
105	372	79.432	79.411	-0.021
105	308	79.400	78.192	-1.208
105	438	79.031	80.407	1.376
	Max	80.454	80.407	3.331
	Average	78.524	77.875	-0.649
	Min	75.617	75.502	-4.155
	Std Dev	1.123	1.559	1.877



	12.17_T_FAULT_DELAY_200kH	
Test Site		
Tester		
Test Number		
Max Limit	86	us
Min Limit	70	us

krad	0	3	8	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	75.753	76.478	75.794	77.006	75.661	75.544	75.502	75.893	75.998	75.848	77.846
Average	77.093	78.423	78.010	78.488	77.234	77.902	77.561	77.632	78.364	76.395	79.212
Max	78.815	80.123	79.912	78.978	79.322	80.346	79.896	79.224	80.231	77.675	80.407
UL	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000	86.000

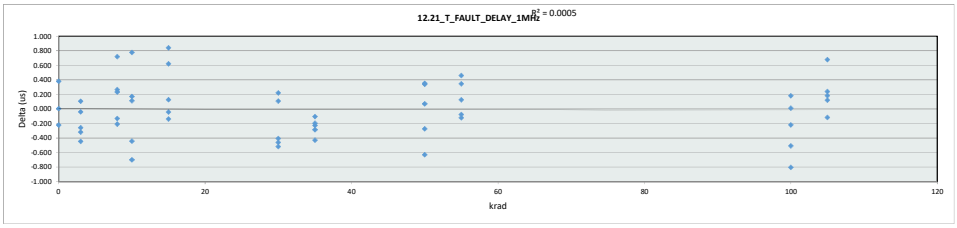


HDR TID Report
TPS7H5003-SP QMLP

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

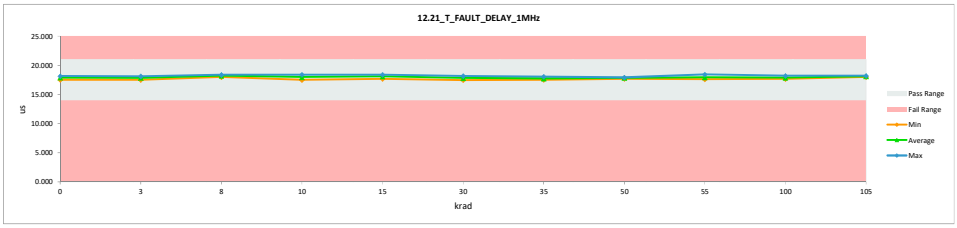
	12.21_T_FAULT_DELAY_1MHz	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	21	21
Min Limit	14	14

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	17.626	18.008	0.382
0	236	17.527	17.533	0.006
0	563	18.361	18.143	-0.218
3	717	18.378	18.123	-0.255
3	685	18.083	18.045	-0.038
3	360	17.823	17.507	-0.316
3	427	17.714	17.822	0.108
3	785	18.149	17.706	-0.443
8	770	18.037	18.305	0.268
8	331	17.618	18.339	0.721
8	279	18.366	18.237	-0.129
8	694	18.132	18.367	0.235
8	337	18.177	17.972	-0.205
10	498	17.628	18.407	0.779
10	139	18.178	18.293	0.115
10	632	18.283	17.844	-0.439
10	465	18.190	17.494	-0.696
10	500	17.657	17.831	0.174
15	209	17.932	17.797	-0.135
15	720	17.547	18.390	0.843
15	327	17.682	18.305	0.623
15	700	17.552	17.682	0.130
15	851	18.402	18.362	-0.040
30	571	18.211	17.754	-0.457
30	172	17.978	17.464	-0.514
30	375	18.052	18.162	0.110
30	445	17.479	17.701	0.222
30	103	18.433	18.029	-0.404
35	119	18.056	17.953	-0.103
35	90	17.730	17.536	-0.194
35	297	18.079	17.652	-0.427
35	594	17.835	17.552	-0.283
35	586	18.288	18.063	-0.225
50	152	17.576	17.917	0.341
50	359	18.445	17.819	-0.626
50	126	17.520	17.874	0.354
50	883	18.129	17.858	-0.271
50	117	17.616	17.689	0.073
55	301	18.091	17.972	-0.119
55	593	17.467	17.595	0.128
55	374	18.083	18.430	0.347
55	650	17.558	18.020	0.462
55	324	17.790	17.717	-0.073
100	562	18.449	17.648	-0.801
100	753	17.686	17.699	0.013
100	547	18.422	17.918	-0.504
100	724	18.026	18.209	0.183
100	534	18.138	17.922	-0.216
105	265	17.817	18.002	0.185
105	482	17.834	18.076	0.242
105	372	17.522	18.201	0.679
105	308	18.300	18.186	-0.114
105	438	17.978	18.101	0.123
	Max	18.449	18.430	0.843
	Average	17.955	17.948	-0.008
	Min	17.467	17.464	-0.801
	Std Dev	0.309	0.275	0.378



	12.21_T_FAULT_DELAY_1MHz	
Test Site		
Tester		
Test Number		
Max Limit	21	us
Min Limit	14	us

krad	0	3	8	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	17.533	17.507	17.972	17.494	17.682	17.464	17.536	17.689	17.595	17.648	18.002
Average	17.895	17.841	18.244	17.974	18.107	17.822	17.751	17.831	17.947	17.879	18.113
Max	18.143	18.123	18.367	18.407	18.390	18.162	18.063	17.917	18.430	18.209	18.201
UL	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000	21.000

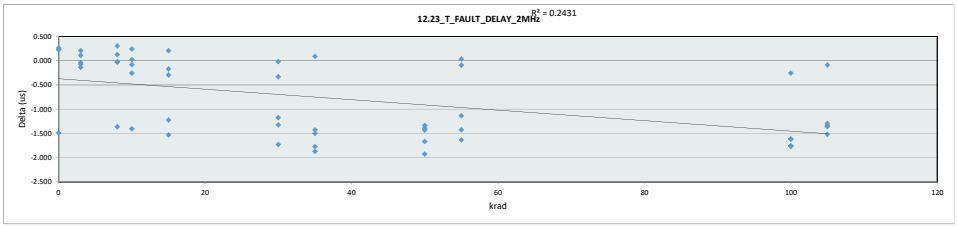


HDR TID Report
TPS7H5003-SP QMLP

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

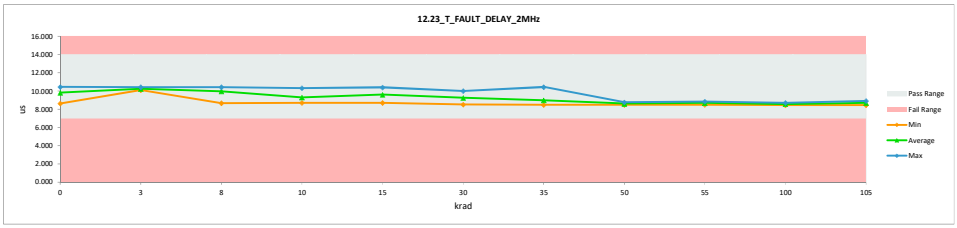
	12.23_T_FAULT_DELAY_2MHz	
Test Site		
Tester		
Test Number		
Unit	us	us
Max Limit	14	14
Min Limit	7	7

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	10.187	10.454	0.267
0	236	10.120	8.639	-1.481
0	563	10.130	10.359	0.229
3	717	10.158	10.121	-0.037
3	685	10.316	10.429	0.113
3	360	10.254	10.186	-0.068
3	427	10.072	10.281	0.209
3	785	10.346	10.211	-0.135
8	770	10.326	10.305	-0.021
8	331	10.034	8.674	-1.360
8	279	10.042	10.171	0.129
8	694	10.028	10.336	0.308
8	337	10.451	10.430	-0.021
10	498	10.303	10.331	0.028
10	139	8.473	8.717	0.244
10	632	10.276	10.025	-0.251
10	465	10.197	8.796	-1.401
10	500	8.798	8.720	-0.078
15	209	10.332	10.041	-0.291
15	720	10.300	10.134	-0.166
15	327	10.192	10.402	0.210
15	700	10.015	8.795	-1.220
15	851	10.230	8.706	-1.524
30	571	10.065	8.896	-1.169
30	172	10.035	10.020	-0.015
30	375	10.247	8.523	-1.724
30	445	10.165	8.848	-1.317
30	103	10.350	10.022	-0.328
35	119	10.397	8.631	-1.766
35	90	10.349	10.443	0.094
35	297	10.096	8.600	-1.496
35	594	10.353	8.489	-1.864
35	586	10.228	8.805	-1.423
50	152	9.977	8.552	-1.425
50	359	10.350	8.688	-1.662
50	126	10.404	8.483	-1.921
50	883	10.103	8.771	-1.332
50	117	10.013	8.624	-1.389
55	301	10.136	8.507	-1.629
55	593	9.982	8.851	-1.131
55	374	8.687	8.600	-0.087
55	650	8.664	8.701	0.037
55	324	10.259	8.838	-1.421
100	562	8.700	8.449	-0.251
100	753	10.365	8.604	-1.761
100	547	10.214	8.601	-1.613
100	724	10.326	8.716	-1.610
100	534	10.232	8.482	-1.750
105	265	8.826	8.742	-0.084
105	482	10.057	8.703	-1.354
105	372	9.979	8.465	-1.514
105	308	10.021	8.688	-1.333
105	438	10.218	8.927	-1.291
	Max	10.451	10.454	0.308
	Average	10.026	9.236	-0.790
	Min	8.473	8.449	-1.921
	Std Dev	0.499	0.776	0.779



	12.23_T_FAULT_DELAY_2MHz	
Test Site		
Tester		
Test Number		
Max Limit	14	us
Min Limit	7	us

krad	0	3	8	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	8.639	10.121	8.674	8.717	8.706	8.523	8.489	8.483	8.507	8.449	8.465
Average	9.817	10.246	9.983	9.318	9.616	9.262	8.994	8.624	8.699	8.570	8.705
Max	10.454	10.429	10.430	10.331	10.402	10.022	10.443	8.771	8.851	8.716	8.927
UL	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000	14.000

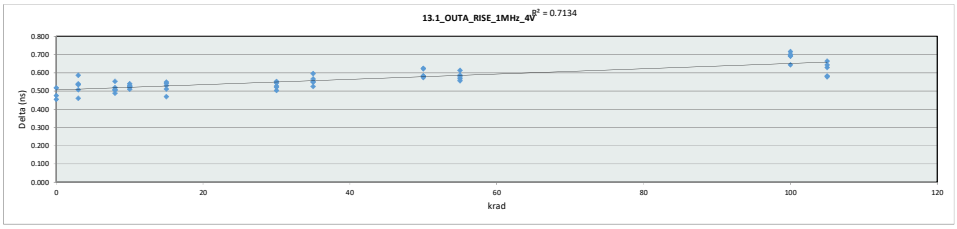


HDR TID Report
TPS7H5003-SP QMLP

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

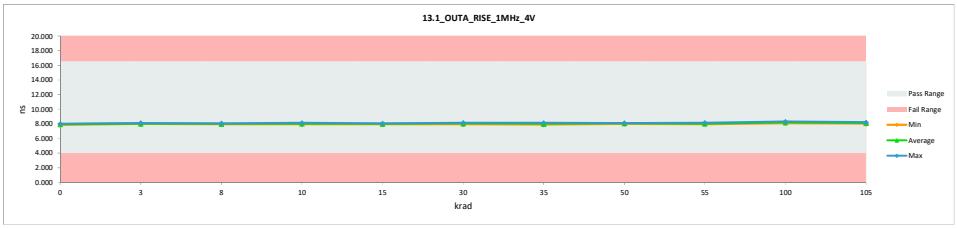
	13.1_OUTA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.422	7.877	0.455
0	236	7.497	8.015	0.518
0	563	7.516	7.992	0.476
3	717	7.560	8.068	0.508
3	685	7.550	8.137	0.587
3	360	7.494	8.030	0.536
3	427	7.527	7.988	0.461
3	785	7.520	8.060	0.540
8	770	7.542	8.052	0.510
8	331	7.528	8.082	0.554
8	279	7.433	7.939	0.506
8	694	7.592	8.081	0.489
8	337	7.449	7.969	0.520
10	498	7.608	8.131	0.523
10	139	7.517	8.028	0.511
10	632	7.407	7.937	0.530
10	465	7.408	7.934	0.526
10	500	7.606	8.147	0.541
15	209	7.525	7.995	0.470
15	720	7.533	8.083	0.550
15	327	7.537	8.049	0.512
15	700	7.462	8.005	0.543
15	851	7.404	7.935	0.531
30	571	7.562	8.066	0.504
30	172	7.577	8.099	0.522
30	375	7.385	7.930	0.545
30	445	7.507	8.060	0.553
30	103	7.638	8.166	0.528
35	119	7.341	7.908	0.567
35	90	7.545	8.142	0.597
35	297	7.566	8.116	0.550
35	594	7.448	7.974	0.526
35	586	7.434	7.985	0.551
50	152	7.485	8.069	0.584
50	359	7.538	8.113	0.575
50	126	7.513	8.138	0.625
50	883	7.385	8.008	0.623
50	117	7.482	8.065	0.583
55	301	7.546	8.160	0.614
55	593	7.532	8.089	0.557
55	374	7.400	7.988	0.588
55	650	7.378	7.956	0.578
55	324	7.442	8.011	0.569
100	562	7.470	8.172	0.702
100	753	7.542	8.235	0.693
100	547	7.600	8.317	0.717
100	724	7.439	8.084	0.645
100	534	7.539	8.232	0.693
105	265	7.465	8.048	0.583
105	482	7.498	8.163	0.665
105	372	7.432	8.011	0.579
105	308	7.571	8.215	0.644
105	438	7.600	8.230	0.630
	Max	7.638	8.317	0.717
	Average	7.500	8.062	0.562
	Min	7.341	7.877	0.455
	Std Dev	0.070	0.095	0.062



	13.1_OUTA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	7.877	7.988	7.939	7.934	7.935	7.930	7.908	8.008	7.956	8.084	8.011
Average	7.961	8.057	8.025	8.035	8.013	8.064	8.025	8.079	8.041	8.208	8.133
Max	8.015	8.137	8.082	8.147	8.083	8.166	8.142	8.138	8.160	8.317	8.230
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

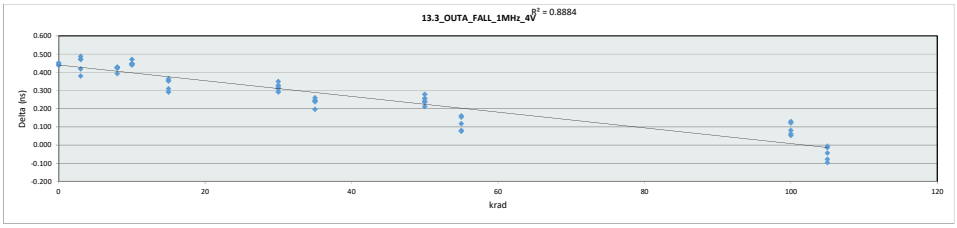


HDR TID Report
TPS7H5003-SP QMLP

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

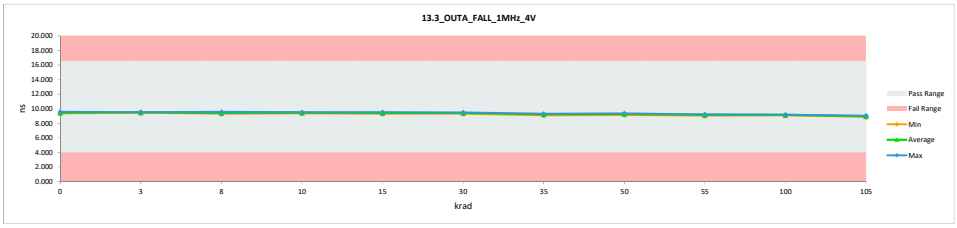
	13.3_OUTA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	8.993	9.433	0.440
0	236	8.915	9.368	0.453
0	563	9.141	9.582	0.441
3	717	9.093	9.513	0.420
3	685	9.051	9.523	0.472
3	360	9.045	9.534	0.489
3	427	9.032	9.506	0.474
3	785	9.085	9.466	0.381
8	770	9.017	9.411	0.394
8	331	8.979	9.403	0.424
8	279	8.885	9.313	0.428
8	694	9.038	9.468	0.430
8	337	9.133	9.559	0.426
10	498	9.040	9.481	0.441
10	139	9.045	9.493	0.448
10	632	9.016	9.463	0.447
10	465	8.899	9.371	0.472
10	500	9.073	9.521	0.448
15	209	9.121	9.432	0.311
15	720	9.035	9.328	0.293
15	327	8.975	9.340	0.365
15	700	9.180	9.534	0.354
15	851	8.952	9.308	0.356
30	571	9.127	9.438	0.311
30	172	9.115	9.445	0.330
30	375	8.984	9.335	0.351
30	445	9.058	9.378	0.320
30	103	9.194	9.487	0.293
35	119	9.068	9.312	0.244
35	90	9.042	9.281	0.239
35	297	9.020	9.281	0.261
35	594	8.910	9.108	0.198
35	586	8.964	9.210	0.246
50	152	9.130	9.367	0.237
50	359	8.971	9.229	0.258
50	126	9.062	9.305	0.243
50	883	8.884	9.164	0.280
50	117	9.144	9.357	0.213
55	301	9.041	9.196	0.155
55	593	8.941	9.060	0.119
55	374	9.090	9.167	0.077
55	650	9.106	9.188	0.082
55	324	9.075	9.237	0.162
100	562	9.043	9.174	0.131
100	753	9.060	9.183	0.123
100	547	9.041	9.124	0.083
100	724	9.103	9.157	0.054
100	534	9.118	9.181	0.063
105	265	8.911	8.899	-0.012
105	482	8.942	8.937	-0.005
105	372	9.070	8.975	-0.095
105	308	9.060	8.983	-0.077
105	438	9.099	9.057	-0.042
	Max	9.194	9.582	0.489
	Average	9.040	9.313	0.273
	Min	8.884	8.899	-0.095
	Std Dev	0.076	0.174	0.163



	13.3_OUTA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	9.368	9.466	9.313	9.371	9.308	9.335	9.108	9.164	9.060	9.124	8.899
Average	9.461	9.508	9.431	9.466	9.388	9.417	9.238	9.284	9.170	9.164	8.970
Max	9.582	9.534	9.559	9.521	9.534	9.487	9.312	9.367	9.237	9.183	9.057
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

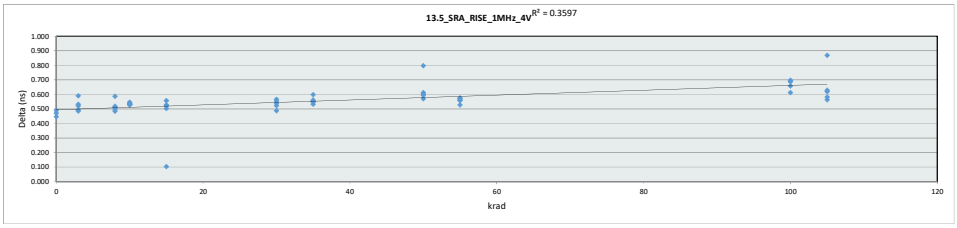


HDR TID Report
TPS7H5003-SP QMLP

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

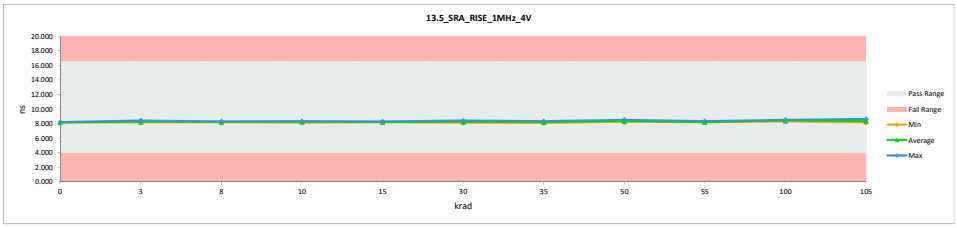
	13.5_SRA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.678	8.126	0.448
0	236	7.706	8.197	0.491
0	563	7.715	8.187	0.472
3	717	7.788	8.321	0.533
3	685	7.807	8.399	0.592
3	360	7.721	8.243	0.522
3	427	7.692	8.179	0.487
3	785	7.721	8.217	0.496
8	770	7.769	8.281	0.512
8	331	7.681	8.269	0.588
8	279	7.701	8.187	0.486
8	694	7.808	8.309	0.501
8	337	7.643	8.162	0.519
10	498	7.786	8.322	0.536
10	139	7.688	8.217	0.529
10	632	7.646	8.178	0.532
10	465	7.598	8.145	0.547
10	500	7.793	8.326	0.533
15	209	8.111	8.216	0.105
15	720	7.725	8.283	0.558
15	327	7.730	8.253	0.523
15	700	7.689	8.218	0.529
15	851	7.662	8.167	0.505
30	571	7.790	8.279	0.489
30	172	7.770	8.294	0.524
30	375	7.576	8.131	0.555
30	445	7.716	8.255	0.539
30	103	7.837	8.404	0.567
35	119	7.535	8.090	0.555
35	90	7.743	8.342	0.599
35	297	7.785	8.347	0.562
35	594	7.636	8.170	0.534
35	586	7.666	8.215	0.549
50	152	7.729	8.527	0.798
50	359	7.715	8.329	0.614
50	126	7.715	8.310	0.595
50	883	7.643	8.248	0.605
50	117	7.712	8.283	0.571
55	301	7.777	8.354	0.577
55	593	7.701	8.260	0.559
55	374	7.594	8.167	0.573
55	650	7.620	8.183	0.563
55	324	7.667	8.196	0.529
100	562	7.694	8.383	0.689
100	753	7.726	8.424	0.698
100	547	7.920	8.534	0.614
100	724	7.663	8.322	0.659
100	534	7.751	8.442	0.691
105	265	7.715	8.279	0.564
105	482	7.720	8.340	0.620
105	372	7.579	8.162	0.583
105	308	7.758	8.628	0.870
105	438	7.760	8.390	0.630
	Max	8.111	8.628	0.870
	Average	7.718	8.277	0.559
	Min	7.535	8.090	0.105
	Std Dev	0.090	0.110	0.099



	13.5_SRA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	8.126	8.179	8.162	8.145	8.167	8.131	8.090	8.248	8.167	8.322	8.162
Average	8.170	8.272	8.242	8.238	8.227	8.273	8.233	8.339	8.232	8.421	8.360
Max	8.197	8.399	8.309	8.326	8.283	8.404	8.347	8.527	8.354	8.534	8.628
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

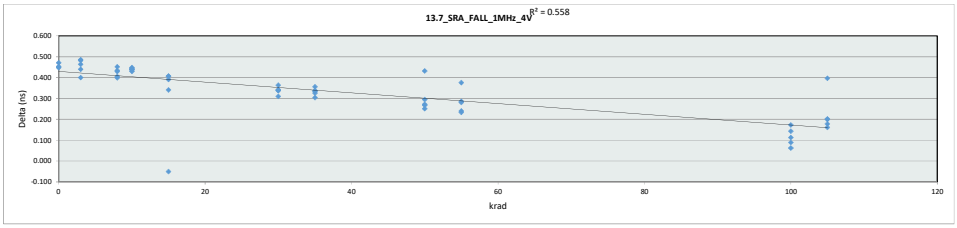


HDR TID Report
TPS7H5003-SP QMLP

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

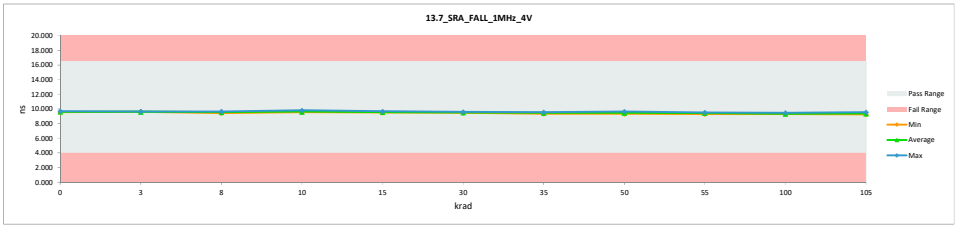
	13.7_SRA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	9.129	9.578	0.449
0	236	9.099	9.571	0.472
0	563	9.260	9.714	0.454
3	717	9.246	9.647	0.401
3	685	9.201	9.642	0.441
3	360	9.151	9.638	0.487
3	427	9.182	9.665	0.483
3	785	9.144	9.609	0.465
8	770	9.150	9.550	0.400
8	331	9.129	9.535	0.406
8	279	9.022	9.457	0.435
8	694	9.216	9.646	0.430
8	337	9.213	9.666	0.453
10	498	9.162	9.600	0.438
10	139	9.197	9.638	0.441
10	632	9.117	9.566	0.449
10	465	9.381	9.812	0.431
10	500	9.145	9.588	0.443
15	209	9.724	9.674	-0.050
15	720	9.174	9.516	0.342
15	327	9.141	9.549	0.408
15	700	9.238	9.646	0.408
15	851	9.163	9.555	0.392
30	571	9.282	9.593	0.311
30	172	9.172	9.512	0.340
30	375	9.112	9.477	0.365
30	445	9.211	9.549	0.338
30	103	9.236	9.580	0.344
35	119	9.199	9.526	0.327
35	90	9.257	9.562	0.305
35	297	9.178	9.535	0.357
35	594	9.048	9.382	0.334
35	586	9.026	9.365	0.339
50	152	9.225	9.658	0.433
50	359	9.151	9.424	0.273
50	126	9.151	9.419	0.268
50	883	9.067	9.363	0.296
50	117	9.254	9.506	0.252
55	301	9.159	9.446	0.287
55	593	9.038	9.320	0.282
55	374	9.183	9.424	0.241
55	650	9.246	9.481	0.235
55	324	9.166	9.543	0.377
100	562	9.337	9.481	0.144
100	753	9.203	9.377	0.174
100	547	9.269	9.332	0.063
100	724	9.192	9.306	0.114
100	534	9.265	9.355	0.090
105	265	9.131	9.310	0.179
105	482	9.074	9.277	0.203
105	372	9.173	9.335	0.162
105	308	9.175	9.573	0.398
105	438	9.271	9.471	0.200
	Max	9.724	9.812	0.487
	Average	9.189	9.520	0.330
	Min	9.022	9.277	-0.050
	Std Dev	0.105	0.121	0.122



	13.7_SRA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	9.571	9.609	9.457	9.566	9.516	9.477	9.365	9.363	9.320	9.306	9.277
Average	9.621	9.640	9.571	9.641	9.588	9.542	9.474	9.474	9.443	9.370	9.393
Max	9.714	9.665	9.666	9.812	9.674	9.593	9.562	9.658	9.543	9.481	9.573
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

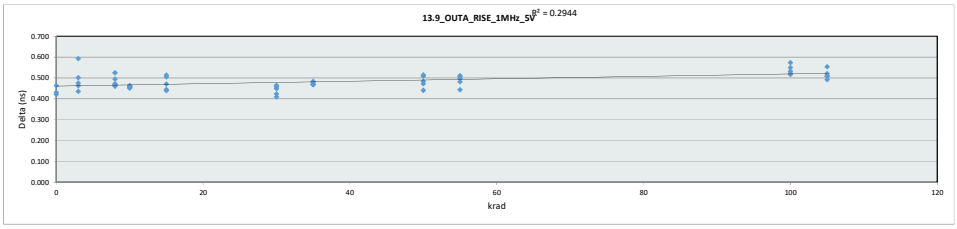


HDR TID Report
TPS7H5003-SP QMLP

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

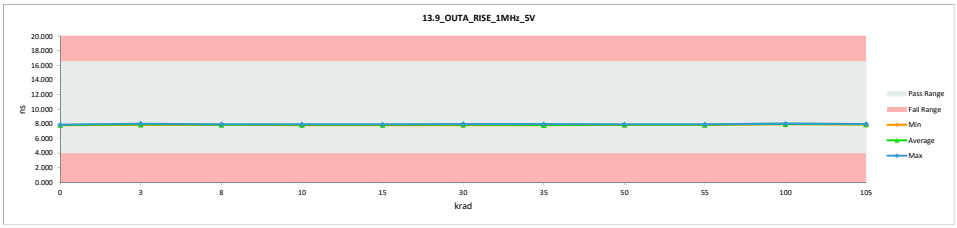
	13.9_OUTA_RISE_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.385	7.807	0.422
0	236	7.415	7.880	0.465
0	563	7.462	7.894	0.432
3	717	7.447	7.950	0.503
3	685	7.445	8.039	0.594
3	360	7.420	7.884	0.464
3	427	7.424	7.861	0.437
3	785	7.443	7.920	0.477
8	770	7.430	7.899	0.469
8	331	7.427	7.953	0.526
8	279	7.368	7.830	0.462
8	694	7.483	7.956	0.473
8	337	7.372	7.868	0.496
10	498	7.479	7.941	0.462
10	139	7.434	7.887	0.453
10	632	7.355	7.820	0.465
10	465	7.361	7.820	0.459
10	500	7.498	7.956	0.458
15	209	7.428	7.874	0.446
15	720	7.431	7.938	0.507
15	327	7.438	7.879	0.441
15	700	7.389	7.904	0.515
15	851	7.347	7.819	0.472
30	571	7.480	7.891	0.411
30	172	7.487	7.912	0.425
30	375	7.334	7.800	0.466
30	445	7.440	7.890	0.450
30	103	7.537	7.996	0.459
35	119	7.320	7.799	0.479
35	90	7.484	7.969	0.485
35	297	7.449	7.919	0.470
35	594	7.373	7.844	0.471
35	586	7.379	7.848	0.469
50	152	7.379	7.895	0.516
50	359	7.466	7.940	0.474
50	126	7.433	7.944	0.511
50	883	7.360	7.845	0.485
50	117	7.444	7.886	0.442
55	301	7.418	7.930	0.512
55	593	7.436	7.945	0.509
55	374	7.358	7.856	0.498
55	650	7.352	7.835	0.483
55	324	7.413	7.858	0.445
100	562	7.414	7.948	0.534
100	753	7.460	7.983	0.523
100	547	7.529	8.047	0.518
100	724	7.350	7.925	0.575
100	534	7.439	7.990	0.551
105	265	7.398	7.891	0.493
105	482	7.432	7.987	0.555
105	372	7.383	7.894	0.511
105	308	7.460	7.982	0.522
105	438	7.482	7.993	0.511
	Max	7.537	8.047	0.594
	Average	7.422	7.906	0.484
	Min	7.320	7.799	0.411
	Std Dev	0.050	0.061	0.038



	13.9_OUTA_RISE_1MHz_5V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	7.807	7.861	7.830	7.820	7.819	7.800	7.799	7.845	7.835	7.925	7.891
Average	7.860	7.931	7.901	7.885	7.883	7.898	7.876	7.902	7.885	7.979	7.949
Max	7.894	8.039	7.956	7.956	7.938	7.996	7.969	7.944	7.945	8.047	7.993
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

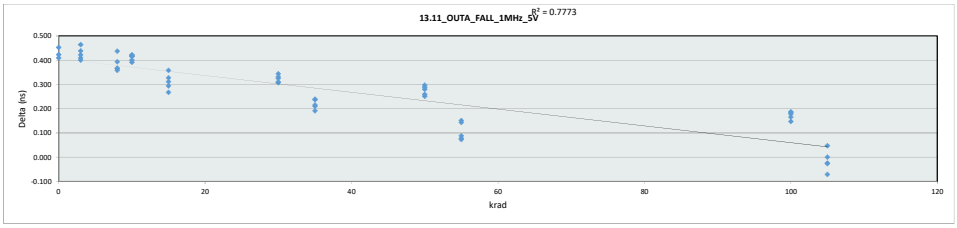


HDR TID Report
TPS7H5003-SP QMLP

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

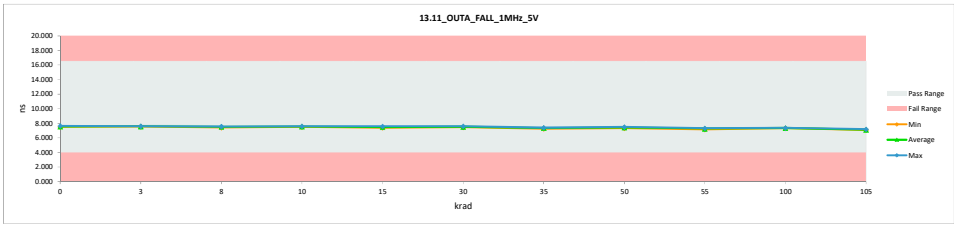
	13.11_OUTA_FALL_1MHz_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.124	7.548	0.424
0	236	7.063	7.516	0.453
0	563	7.242	7.652	0.410
3	717	7.173	7.583	0.410
3	685	7.162	7.627	0.465
3	360	7.165	7.604	0.439
3	427	7.162	7.585	0.423
3	785	7.167	7.568	0.401
8	770	7.139	7.498	0.359
8	331	7.135	7.501	0.366
8	279	7.041	7.435	0.394
8	694	7.140	7.578	0.438
8	337	7.210	7.578	0.368
10	498	7.142	7.563	0.421
10	139	7.195	7.587	0.392
10	632	7.140	7.563	0.423
10	465	7.107	7.508	0.401
10	500	7.195	7.611	0.416
15	209	7.215	7.510	0.295
15	720	7.152	7.420	0.268
15	327	7.124	7.436	0.312
15	700	7.235	7.594	0.359
15	851	7.086	7.414	0.328
30	571	7.246	7.554	0.308
30	172	7.244	7.555	0.311
30	375	7.122	7.467	0.345
30	445	7.167	7.493	0.326
30	103	7.279	7.611	0.332
35	119	7.182	7.420	0.238
35	90	7.178	7.389	0.211
35	297	7.132	7.372	0.240
35	594	7.072	7.264	0.192
35	586	7.104	7.320	0.216
50	152	7.201	7.499	0.298
50	359	7.145	7.405	0.260
50	126	7.186	7.467	0.281
50	883	7.049	7.338	0.289
50	117	7.259	7.511	0.252
55	301	7.143	7.295	0.152
55	593	7.100	7.189	0.089
55	374	7.210	7.284	0.074
55	650	7.238	7.317	0.079
55	324	7.193	7.337	0.144
100	562	7.199	7.383	0.184
100	753	7.167	7.355	0.188
100	547	7.176	7.324	0.148
100	724	7.189	7.368	0.179
100	534	7.205	7.371	0.166
105	265	7.053	7.101	0.048
105	482	7.098	7.099	0.001
105	372	7.200	7.130	-0.070
105	308	7.181	7.156	-0.025
105	438	7.219	7.195	-0.024
	Max	7.279	7.652	0.465
	Average	7.163	7.435	0.272
	Min	7.041	7.099	-0.070
	Std Dev	0.056	0.146	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	8	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	7.516	7.568	7.435	7.508	7.414	7.467	7.264	7.338	7.189	7.324	7.099
Average	7.572	7.593	7.518	7.566	7.475	7.536	7.353	7.444	7.284	7.360	7.136
Max	7.652	7.627	7.578	7.611	7.594	7.611	7.420	7.511	7.337	7.383	7.195
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

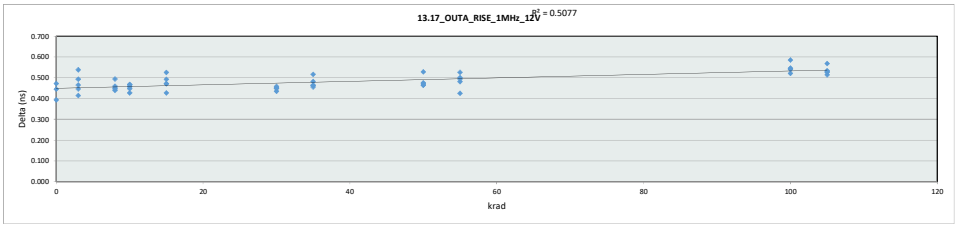


HDR TID Report
TPS7H5003-SP QMLP

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

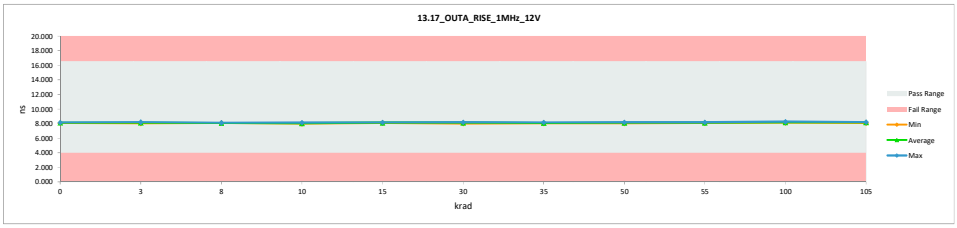
	13.17_OUTA_RISE_1MHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.700	8.094	0.394
0	236	7.680	8.153	0.473
0	563	7.679	8.125	0.446
3	717	7.664	8.158	0.494
3	685	7.676	8.215	0.539
3	360	7.598	8.045	0.447
3	427	7.676	8.091	0.415
3	785	7.685	8.151	0.466
8	770	7.672	8.124	0.452
8	331	7.618	8.078	0.460
8	279	7.646	8.093	0.447
8	694	7.671	8.111	0.440
8	337	7.610	8.105	0.495
10	498	7.687	8.136	0.449
10	139	7.521	7.988	0.467
10	632	7.579	8.047	0.468
10	465	7.543	8.001	0.458
10	500	7.665	8.093	0.428
15	209	7.673	8.101	0.428
15	720	7.680	8.173	0.493
15	327	7.685	8.157	0.472
15	700	7.642	8.168	0.526
15	851	7.629	8.101	0.472
30	571	7.692	8.145	0.453
30	172	7.758	8.194	0.436
30	375	7.563	8.013	0.450
30	445	7.719	8.178	0.459
30	103	7.701	8.151	0.450
35	119	7.565	8.029	0.464
35	90	7.647	8.164	0.517
35	297	7.715	8.171	0.456
35	594	7.600	8.065	0.465
35	586	7.550	8.033	0.483
50	152	7.666	8.195	0.529
50	359	7.648	8.121	0.473
50	126	7.677	8.153	0.476
50	883	7.566	8.032	0.466
50	117	7.602	8.067	0.465
55	301	7.661	8.156	0.495
55	593	7.670	8.172	0.502
55	374	7.533	8.060	0.527
55	650	7.633	8.115	0.482
55	324	7.763	8.189	0.426
100	562	7.574	8.115	0.541
100	753	7.632	8.177	0.545
100	547	7.751	8.273	0.522
100	724	7.578	8.125	0.547
100	534	7.660	8.246	0.586
105	265	7.624	8.139	0.515
105	482	7.556	8.086	0.530
105	372	7.630	8.199	0.569
105	308	7.688	8.223	0.535
105	438	7.683	8.210	0.527
	Max	7.763	8.273	0.586
	Average	7.645	8.126	0.482
	Min	7.521	7.988	0.394
	Std Dev	0.058	0.063	0.042



	13.17_OUTA_RISE_1MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	8.094	8.045	8.078	7.988	8.101	8.013	8.029	8.032	8.060	8.115	8.086
Average	8.124	8.132	8.102	8.053	8.140	8.136	8.092	8.114	8.138	8.187	8.171
Max	8.153	8.215	8.124	8.136	8.173	8.194	8.171	8.195	8.189	8.273	8.223
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

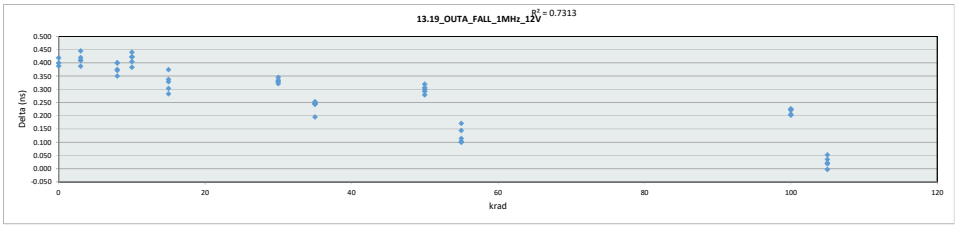


HDR TID Report
TPS7H5003-SP QMLP

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

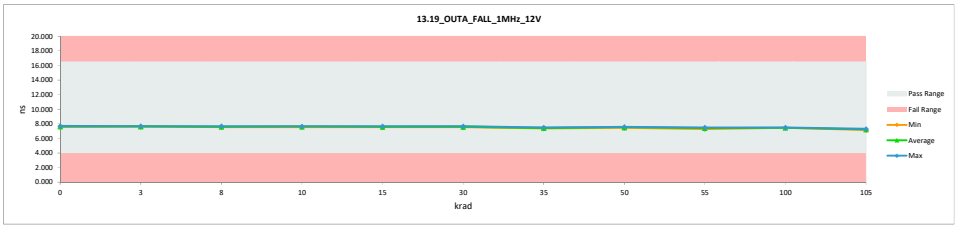
	13.19_OUTA_FALL_1MHz_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.267	7.656	0.389
0	236	7.187	7.607	0.420
0	563	7.307	7.707	0.400
3	717	7.253	7.664	0.411
3	685	7.246	7.634	0.388
3	360	7.210	7.656	0.446
3	427	7.266	7.687	0.421
3	785	7.247	7.657	0.410
8	770	7.217	7.568	0.351
8	331	7.184	7.585	0.401
8	279	7.174	7.550	0.376
8	694	7.203	7.603	0.400
8	337	7.315	7.687	0.372
10	498	7.232	7.637	0.405
10	139	7.176	7.599	0.423
10	632	7.223	7.664	0.441
10	465	7.191	7.575	0.384
10	500	7.232	7.655	0.423
15	209	7.298	7.602	0.304
15	720	7.248	7.532	0.284
15	327	7.242	7.580	0.338
15	700	7.316	7.691	0.375
15	851	7.211	7.540	0.329
30	571	7.295	7.625	0.330
30	172	7.353	7.675	0.322
30	375	7.197	7.543	0.346
30	445	7.285	7.621	0.336
30	103	7.314	7.644	0.330
35	119	7.268	7.522	0.254
35	90	7.226	7.472	0.246
35	297	7.240	7.484	0.244
35	594	7.161	7.357	0.196
35	586	7.134	7.381	0.247
50	152	7.309	7.602	0.293
50	359	7.217	7.524	0.307
50	126	7.272	7.573	0.301
50	883	7.126	7.446	0.320
50	117	7.282	7.562	0.280
55	301	7.230	7.402	0.172
55	593	7.203	7.307	0.104
55	374	7.256	7.371	0.115
55	650	7.332	7.432	0.100
55	324	7.352	7.497	0.145
100	562	7.243	7.470	0.227
100	753	7.231	7.453	0.222
100	547	7.251	7.454	0.203
100	724	7.257	7.464	0.207
100	534	7.281	7.506	0.225
105	265	7.160	7.213	0.053
105	482	7.130	7.152	0.022
105	372	7.304	7.302	-0.002
105	308	7.258	7.277	0.019
105	438	7.269	7.305	0.036
	Max	7.353	7.707	0.446
	Average	7.243	7.528	0.285
	Min	7.126	7.152	-0.002
	Std Dev	0.055	0.133	0.123



	13.19_OUTA_FALL_1MHz_12V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	7.607	7.634	7.550	7.575	7.532	7.543	7.357	7.446	7.307	7.453	7.152
Average	7.657	7.660	7.599	7.626	7.589	7.622	7.443	7.541	7.402	7.469	7.250
Max	7.707	7.687	7.687	7.664	7.691	7.675	7.522	7.602	7.497	7.506	7.305
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

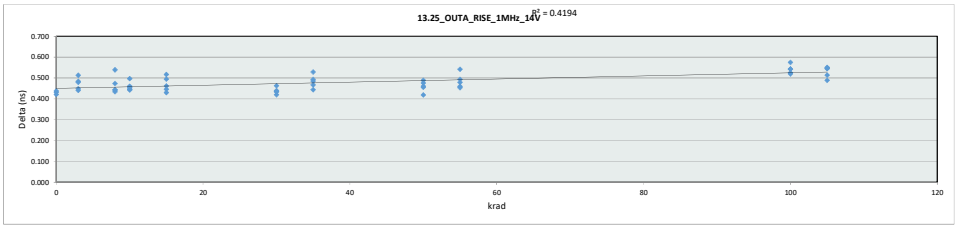


HDR TID Report
TPS7H5003-SP QMLP

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

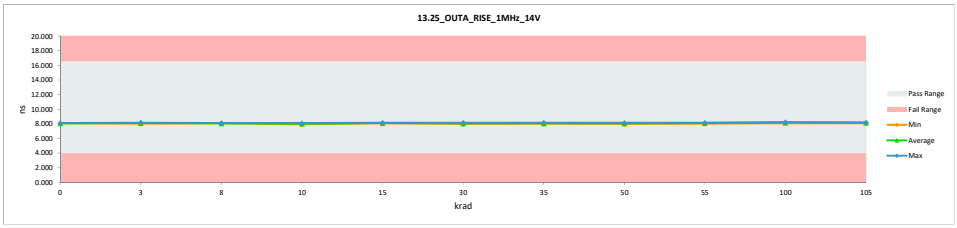
	13.25_OUTA_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.641	8.063	0.422
0	236	7.669	8.108	0.439
0	563	7.659	8.092	0.433
3	717	7.655	8.140	0.485
3	685	7.668	8.182	0.514
3	360	7.578	8.028	0.450
3	427	7.633	8.075	0.442
3	785	7.657	8.138	0.481
8	770	7.642	8.086	0.444
8	331	7.568	8.108	0.540
8	279	7.619	8.063	0.444
8	694	7.649	8.084	0.435
8	337	7.602	8.077	0.475
10	498	7.669	8.113	0.444
10	139	7.483	7.938	0.455
10	632	7.526	8.024	0.498
10	465	7.534	7.996	0.462
10	500	7.638	8.085	0.447
15	209	7.652	8.083	0.431
15	720	7.656	8.152	0.496
15	327	7.666	8.129	0.463
15	700	7.613	8.131	0.518
15	851	7.618	8.065	0.447
30	571	7.655	8.091	0.436
30	172	7.736	8.157	0.421
30	375	7.545	7.980	0.435
30	445	7.694	8.158	0.464
30	103	7.686	8.127	0.441
35	119	7.528	8.014	0.486
35	90	7.641	8.171	0.530
35	297	7.697	8.142	0.445
35	594	7.572	8.040	0.468
35	586	7.514	8.008	0.494
50	152	7.662	8.124	0.462
50	359	7.636	8.093	0.457
50	126	7.661	8.138	0.477
50	883	7.524	8.014	0.490
50	117	7.581	8.001	0.420
55	301	7.638	8.099	0.461
55	593	7.651	8.146	0.495
55	374	7.505	8.048	0.543
55	650	7.605	8.085	0.480
55	324	7.709	8.164	0.455
100	562	7.568	8.089	0.521
100	753	7.622	8.166	0.544
100	547	7.709	8.253	0.544
100	724	7.572	8.098	0.526
100	534	7.620	8.196	0.576
105	265	7.602	8.092	0.490
105	482	7.532	8.080	0.548
105	372	7.638	8.184	0.546
105	308	7.657	8.209	0.552
105	438	7.694	8.209	0.515
	Max	7.736	8.253	0.576
	Average	7.622	8.101	0.479
	Min	7.483	7.938	0.420
	Std Dev	0.059	0.064	0.041



	13.25_OUTA_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	8.063	8.028	8.063	7.938	8.065	7.980	8.008	8.001	8.048	8.089	8.080
Average	8.088	8.113	8.084	8.031	8.112	8.103	8.075	8.074	8.108	8.160	8.155
Max	8.108	8.182	8.108	8.113	8.152	8.158	8.171	8.138	8.164	8.253	8.209
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

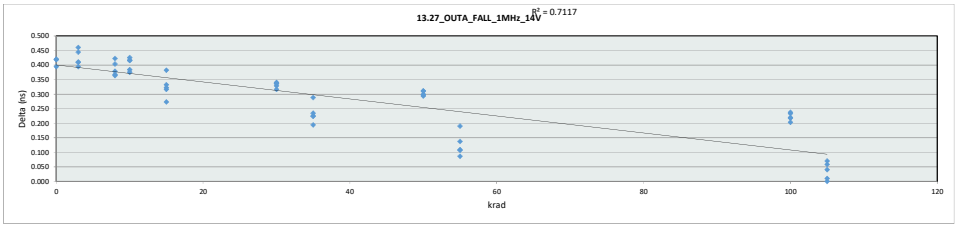


HDR TID Report
TPS7H5003-SP QMLP

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

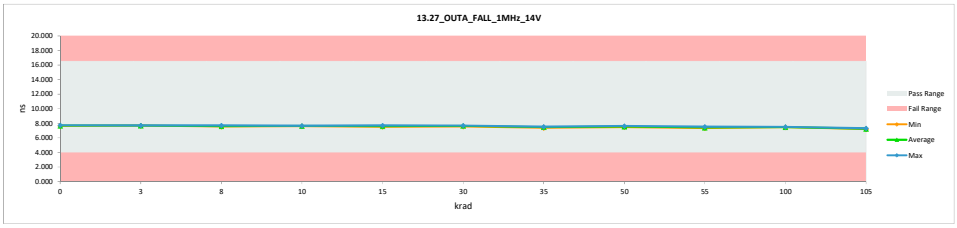
	13.27_OUTA_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	16.5	16.5
Min Limit	4	4

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	7.284	7.679	0.395
0	236	7.212	7.633	0.421
0	563	7.333	7.752	0.419
3	717	7.268	7.678	0.410
3	685	7.262	7.723	0.461
3	360	7.232	7.677	0.445
3	427	7.303	7.714	0.411
3	785	7.288	7.683	0.395
8	770	7.229	7.593	0.364
8	331	7.212	7.580	0.368
8	279	7.194	7.573	0.379
8	694	7.224	7.628	0.404
8	337	7.297	7.720	0.423
10	498	7.249	7.665	0.416
10	139	7.194	7.620	0.426
10	632	7.231	7.648	0.417
10	465	7.222	7.598	0.376
10	500	7.264	7.649	0.385
15	209	7.304	7.621	0.317
15	720	7.268	7.542	0.274
15	327	7.257	7.590	0.333
15	700	7.331	7.714	0.383
15	851	7.238	7.561	0.323
30	571	7.310	7.648	0.338
30	172	7.384	7.701	0.317
30	375	7.224	7.565	0.341
30	445	7.322	7.651	0.329
30	103	7.330	7.666	0.336
35	119	7.309	7.534	0.225
35	90	7.251	7.540	0.289
35	297	7.258	7.493	0.235
35	594	7.177	7.372	0.195
35	586	7.178	7.403	0.225
50	152	7.335	7.635	0.300
50	359	7.239	7.533	0.294
50	126	7.299	7.611	0.312
50	883	7.160	7.471	0.311
50	117	7.305	7.603	0.298
55	301	7.255	7.393	0.138
55	593	7.229	7.339	0.110
55	374	7.281	7.389	0.108
55	650	7.369	7.456	0.087
55	324	7.354	7.545	0.191
100	562	7.255	7.493	0.238
100	753	7.237	7.457	0.220
100	547	7.277	7.481	0.204
100	724	7.272	7.490	0.218
100	534	7.293	7.527	0.234
105	265	7.180	7.251	0.071
105	482	7.138	7.197	0.059
105	372	7.317	7.318	0.001
105	308	7.296	7.307	0.011
105	438	7.281	7.322	0.041
	Max	7.384	7.752	0.461
	Average	7.264	7.552	0.287
	Min	7.138	7.197	0.001
	Std Dev	0.054	0.133	0.123



	13.27_OUTA_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	16.5	ns
Min Limit	4	ns

krad	0	3	8	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	7.633	7.677	7.573	7.598	7.542	7.565	7.372	7.471	7.339	7.457	7.197
Average	7.688	7.695	7.619	7.636	7.606	7.646	7.468	7.571	7.424	7.490	7.279
Max	7.752	7.723	7.720	7.665	7.714	7.701	7.540	7.635	7.545	7.527	7.322
UL	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500	16.500

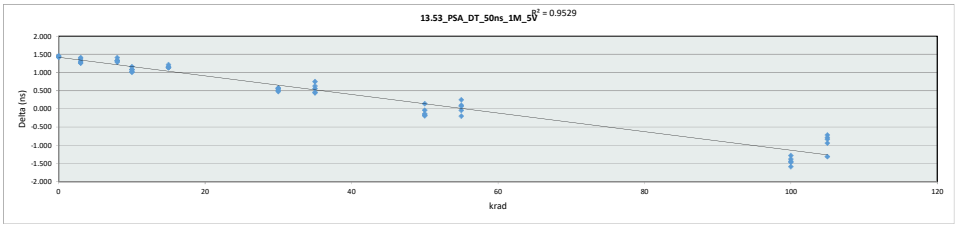


HDR TID Report
TPS7H5003-SP QMLP

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

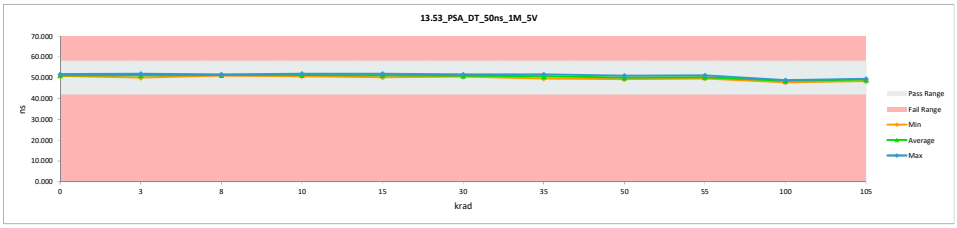
	13.53_PSA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	58	58
Min Limit	42	42

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	49.374	50.829	1.455
0	236	49.618	51.041	1.423
0	563	50.289	51.756	1.467
3	717	48.691	50.071	1.380
3	685	49.609	51.029	1.420
3	360	50.278	51.598	1.320
3	427	50.260	51.523	1.263
3	785	50.569	51.848	1.279
8	770	49.761	51.097	1.336
8	331	49.978	51.396	1.418
8	279	49.836	51.177	1.341
8	694	50.097	51.419	1.322
8	337	50.284	51.576	1.292
10	498	49.592	50.763	1.171
10	139	50.819	51.903	1.084
10	632	50.785	51.880	1.095
10	465	50.489	51.528	1.039
10	500	49.813	50.827	1.014
15	209	50.545	51.717	1.172
15	720	50.765	51.907	1.142
15	327	49.615	50.765	1.150
15	700	50.112	51.338	1.226
15	851	49.117	50.256	1.139
30	571	51.003	51.580	0.577
30	172	50.298	50.878	0.580
30	375	50.152	50.635	0.483
30	445	50.281	50.795	0.514
30	103	50.822	51.376	0.554
35	119	51.149	51.616	0.467
35	90	50.361	51.119	0.758
35	297	49.939	50.506	0.567
35	594	49.987	50.434	0.447
35	586	48.999	49.634	0.635
50	152	49.459	49.299	-0.160
50	359	50.191	50.061	-0.130
50	126	50.611	50.763	0.152
50	883	49.764	49.584	-0.180
50	117	51.109	51.081	-0.028
55	301	49.652	49.761	0.109
55	593	49.467	49.725	0.258
55	374	51.107	51.189	0.082
55	650	50.754	50.565	-0.189
55	324	50.012	49.980	-0.032
100	562	50.343	48.908	-1.435
100	753	49.080	47.806	-1.274
100	547	49.793	48.422	-1.371
100	724	50.224	48.766	-1.458
100	534	50.212	48.633	-1.579
105	265	50.060	49.235	-0.825
105	482	49.114	48.405	-0.709
105	372	50.246	49.467	-0.779
105	308	50.223	49.292	-0.931
105	438	50.694	49.390	-1.304
	Max	51.149	51.907	1.467
	Average	50.102	50.531	0.429
	Min	48.691	47.806	-1.579
	Std Dev	0.574	1.067	0.931



	13.53_PSA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	58	ns
Min Limit	42	ns

krad	0	3	8	10	15	30	35	50	55	100	105
LL	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000
Min	50.829	50.071	51.097	50.763	50.256	50.635	49.634	49.299	49.725	47.806	48.405
Average	51.209	51.214	51.333	51.380	51.197	51.053	50.662	50.158	50.244	48.507	49.158
Max	51.756	51.848	51.576	51.903	51.907	51.580	51.616	51.081	51.189	48.908	49.467
UL	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000

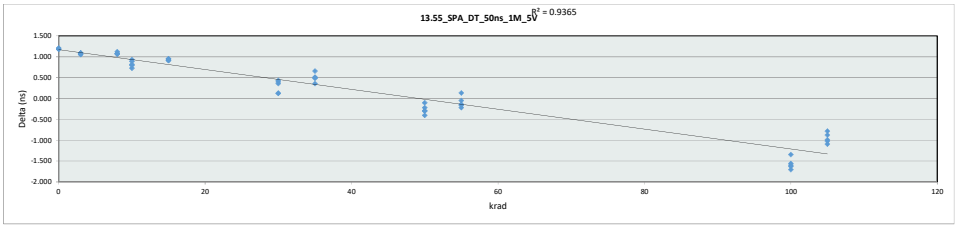


HDR TID Report
TPS7H5003-SP QMLP

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

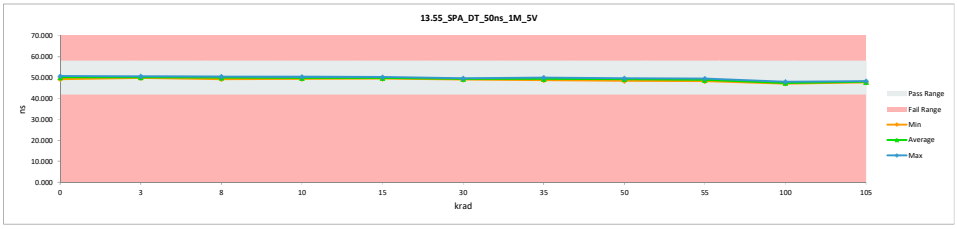
	13.55_SPA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	58	58
Min Limit	42	42

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	49.048	50.240	1.192
0	236	48.126	49.313	1.187
0	563	49.547	50.765	1.218
3	717	48.918	49.981	1.063
3	685	49.404	50.500	1.096
3	360	49.080	50.175	1.095
3	427	48.781	49.878	1.097
3	785	49.557	50.620	1.063
8	770	49.070	50.149	1.079
8	331	48.669	49.799	1.130
8	279	49.356	50.444	1.088
8	694	48.248	49.336	1.088
8	337	49.483	50.551	1.068
10	498	48.560	49.458	0.898
10	139	49.088	50.029	0.941
10	632	48.811	49.634	0.823
10	465	49.699	50.434	0.735
10	500	48.860	49.664	0.804
15	209	48.900	49.855	0.955
15	720	49.318	50.235	0.917
15	327	48.667	49.589	0.922
15	700	49.317	50.276	0.959
15	851	48.559	49.481	0.922
30	571	49.200	49.563	0.363
30	172	49.027	49.433	0.406
30	375	48.623	49.063	0.440
30	445	49.613	49.745	0.132
30	103	49.201	49.331	0.130
35	119	49.354	49.874	0.520
35	90	49.382	50.045	0.663
35	297	48.733	49.239	0.506
35	594	48.391	48.755	0.364
35	586	48.773	49.265	0.492
50	152	49.035	48.938	-0.097
50	359	49.864	49.574	-0.290
50	126	49.957	49.744	-0.213
50	883	48.743	48.451	-0.292
50	117	49.991	49.593	-0.398
55	301	48.851	48.990	0.139
55	593	48.453	48.323	-0.130
55	374	49.592	49.550	-0.042
55	650	49.275	49.063	-0.212
55	324	49.101	48.948	-0.153
100	562	49.388	48.051	-1.337
100	753	48.812	47.260	-1.552
100	547	48.864	47.238	-1.626
100	724	48.774	47.181	-1.593
100	534	49.119	47.420	-1.699
105	265	48.828	47.959	-0.869
105	482	48.670	47.684	-0.986
105	372	48.528	47.751	-0.777
105	308	49.240	48.152	-1.088
105	438	49.381	48.368	-1.013
	Max	49.991	50.765	1.218
	Average	49.053	49.301	0.248
	Min	48.126	47.181	-1.699
	Std Dev	0.426	0.951	0.877



	13.55_SPA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	58	ns
Min Limit	42	ns

krad	0	3	8	10	15	30	35	50	55	100	105
LL	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000
Min	49.313	49.878	49.336	49.458	49.481	49.063	48.755	48.451	48.323	47.181	47.684
Average	50.106	50.231	50.056	49.844	49.887	49.427	49.436	49.260	48.975	47.430	47.983
Max	50.765	50.620	50.551	50.434	50.276	49.745	50.045	49.744	49.550	48.051	48.368
UL	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000

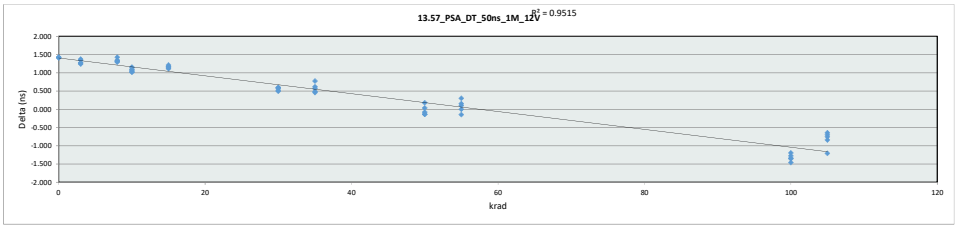


HDR TID Report
TPS7H5003-SP QMLP

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

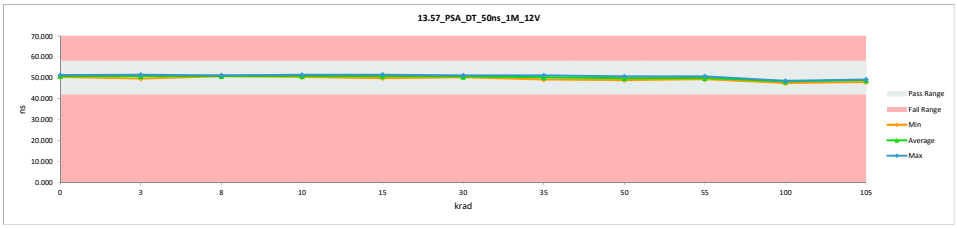
	13.57_PSA_DT_50ns_1M_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	58	58
Min Limit	42	42

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	49.062	50.497	1.435
0	236	49.265	50.697	1.432
0	563	49.970	51.383	1.413
3	717	48.355	49.737	1.382
3	685	49.290	50.639	1.349
3	360	49.901	51.179	1.278
3	427	49.902	51.176	1.274
3	785	50.237	51.484	1.247
8	770	49.398	50.750	1.352
8	331	49.587	51.020	1.433
8	279	49.530	50.854	1.324
8	694	49.728	51.026	1.298
8	337	49.937	51.264	1.327
10	498	49.230	50.392	1.162
10	139	50.350	51.428	1.078
10	632	50.392	51.497	1.105
10	465	50.114	51.149	1.035
10	500	49.416	50.437	1.021
15	209	50.197	51.368	1.171
15	720	50.428	51.565	1.137
15	327	49.273	50.456	1.183
15	700	49.775	50.994	1.219
15	851	48.816	49.934	1.118
30	571	50.632	51.239	0.607
30	172	49.999	50.580	0.581
30	375	49.770	50.270	0.500
30	445	49.969	50.497	0.528
30	103	50.384	50.984	0.600
35	119	50.794	51.289	0.495
35	90	49.982	50.764	0.782
35	297	49.626	50.211	0.585
35	594	49.611	50.073	0.462
35	586	48.619	49.246	0.627
50	152	49.134	48.999	-0.135
50	359	49.825	49.752	-0.073
50	126	50.257	50.440	0.183
50	883	49.371	49.244	-0.127
50	117	50.690	50.730	0.040
55	301	49.268	49.428	0.160
55	593	49.112	49.420	0.308
55	374	50.727	50.837	0.110
55	650	50.423	50.282	-0.141
55	324	49.732	49.739	0.007
100	562	49.949	48.601	-1.348
100	753	48.698	47.510	-1.188
100	547	49.447	48.177	-1.270
100	724	49.835	48.499	-1.336
100	534	49.847	48.392	-1.455
105	265	49.700	48.954	-0.746
105	482	48.686	48.050	-0.636
105	372	49.905	49.214	-0.691
105	308	49.880	49.044	-0.836
105	438	50.317	49.115	-1.202
	Max	50.794	51.565	1.435
	Average	49.742	50.198	0.456
	Min	48.355	47.510	-1.455
	Std Dev	0.567	1.037	0.891



	13.57_PSA_DT_50ns_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	58	ns
Min Limit	42	ns

krad	0	3	8	10	15	30	35	50	55	100	105
LL	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000
Min	50.497	49.737	50.750	50.392	49.934	50.270	49.246	48.999	49.420	47.510	48.050
Average	50.859	50.843	50.983	50.981	50.863	50.714	50.317	49.833	49.941	48.236	48.875
Max	51.383	51.484	51.264	51.497	51.565	51.239	51.289	50.730	50.837	48.601	49.214
UL	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000

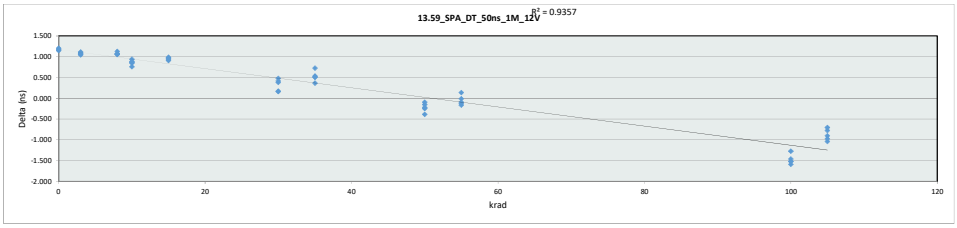


HDR TID Report
TPS7H5003-SP QMLP

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

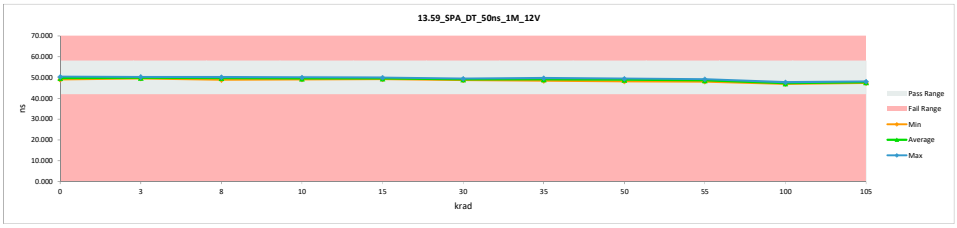
	13.59_SPA_DT_50ns_1M_12V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	58	58
Min Limit	42	42

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	48.729	49.942	1.213
0	236	47.834	48.990	1.156
0	563	49.224	50.403	1.179
3	717	48.571	49.639	1.068
3	685	49.053	50.152	1.099
3	360	48.722	49.812	1.090
3	427	48.457	49.579	1.122
3	785	49.247	50.297	1.050
8	770	48.754	49.821	1.067
8	331	48.322	49.456	1.134
8	279	49.054	50.133	1.079
8	694	47.922	48.984	1.062
8	337	49.163	50.237	1.074
10	498	48.243	49.135	0.892
10	139	48.664	49.610	0.946
10	632	48.442	49.312	0.870
10	465	49.324	50.090	0.766
10	500	48.489	49.343	0.854
15	209	48.554	49.535	0.981
15	720	48.992	49.912	0.920
15	327	48.358	49.322	0.964
15	700	48.977	49.970	0.993
15	851	48.266	49.199	0.933
30	571	48.869	49.258	0.389
30	172	48.737	49.161	0.424
30	375	48.256	48.742	0.486
30	445	49.291	49.461	0.170
30	103	48.822	48.997	0.175
35	119	49.024	49.568	0.544
35	90	49.041	49.776	0.735
35	297	48.439	48.954	0.515
35	594	48.050	48.422	0.372
35	586	48.386	48.904	0.518
50	152	48.724	48.638	-0.086
50	359	49.483	49.242	-0.241
50	126	49.608	49.465	-0.143
50	883	48.363	48.148	-0.215
50	117	49.644	49.263	-0.381
55	301	48.519	48.662	0.143
55	593	48.131	48.046	-0.085
55	374	49.234	49.230	-0.004
55	650	48.971	48.813	-0.158
55	324	48.840	48.718	-0.122
100	562	49.016	47.750	-1.266
100	753	48.448	46.996	-1.452
100	547	48.514	47.005	-1.509
100	724	48.438	46.924	-1.514
100	534	48.773	47.192	-1.581
105	265	48.472	47.706	-0.766
105	482	48.250	47.355	-0.895
105	372	48.203	47.508	-0.695
105	308	48.907	47.875	-1.032
105	438	49.057	48.091	-0.966
	Max	49.644	50.403	1.213
	Average	48.715	48.995	0.281
	Min	47.834	46.924	-1.581
	Std Dev	0.424	0.928	0.847



	13.59_SPA_DT_50ns_1M_12V	
Test Site		
Tester		
Test Number		
Max Limit	58	ns
Min Limit	42	ns

krad	0	3	8	10	15	30	35	50	55	100	105
LL	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000
Min	48.990	49.579	48.984	49.135	49.199	48.742	48.422	48.148	48.046	46.924	47.355
Average	49.778	49.896	49.726	49.498	49.588	49.124	49.125	48.951	48.694	47.173	47.707
Max	50.403	50.297	50.237	50.090	49.970	49.461	49.776	49.465	49.230	47.750	48.091
UL	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000

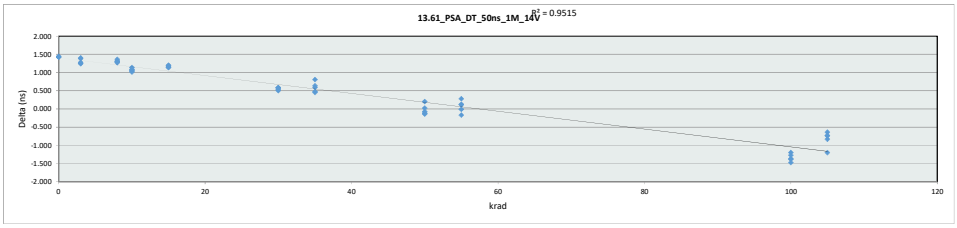


HDR TID Report
TPS7H5003-SP QMLP

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

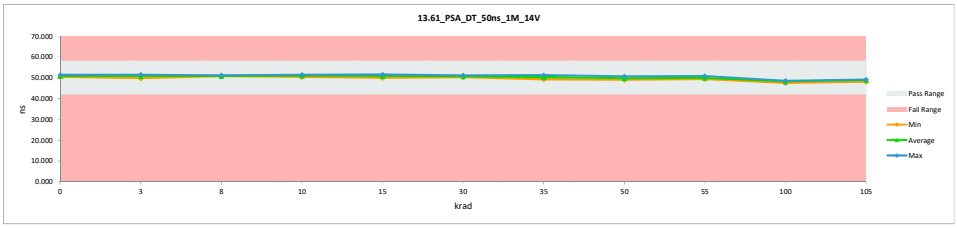
	13.61_PSA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	58	58
Min Limit	42	42

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	49.052	50.505	1.453
0	236	49.268	50.701	1.433
0	563	49.958	51.388	1.430
3	717	48.340	49.731	1.391
3	685	49.269	50.676	1.407
3	360	49.919	51.181	1.262
3	427	49.896	51.183	1.287
3	785	50.238	51.490	1.252
8	770	49.427	50.747	1.320
8	331	49.600	50.972	1.372
8	279	49.522	50.840	1.318
8	694	49.742	51.021	1.279
8	337	49.953	51.252	1.299
10	498	49.248	50.393	1.145
10	139	50.339	51.414	1.075
10	632	50.399	51.492	1.093
10	465	50.119	51.142	1.023
10	500	49.413	50.461	1.048
15	209	50.202	51.367	1.165
15	720	50.405	51.556	1.151
15	327	49.271	50.468	1.197
15	700	49.766	50.974	1.208
15	851	48.806	49.952	1.146
30	571	50.636	51.215	0.579
30	172	49.985	50.574	0.589
30	375	49.767	50.275	0.508
30	445	49.957	50.498	0.541
30	103	50.397	50.991	0.594
35	119	50.799	51.284	0.485
35	90	49.983	50.798	0.815
35	297	49.610	50.206	0.596
35	594	49.612	50.073	0.461
35	586	48.612	49.253	0.641
50	152	49.131	49.023	-0.108
50	359	49.804	49.736	-0.068
50	126	50.235	50.445	0.210
50	883	49.370	49.238	-0.132
50	117	50.700	50.731	0.031
55	301	49.289	49.425	0.136
55	593	49.123	49.410	0.287
55	374	50.709	50.829	0.120
55	650	50.442	50.280	-0.162
55	324	49.731	49.729	-0.002
100	562	49.967	48.593	-1.374
100	753	48.704	47.514	-1.190
100	547	49.433	48.167	-1.266
100	724	49.842	48.483	-1.359
100	534	49.836	48.371	-1.465
105	265	49.684	48.956	-0.728
105	482	48.691	48.057	-0.634
105	372	49.919	49.193	-0.726
105	308	49.865	49.043	-0.822
105	438	50.298	49.106	-1.192
	Max	50.799	51.556	1.453
	Average	49.741	50.196	0.455
	Min	48.340	47.514	-1.465
	Std Dev	0.567	1.037	0.893



	13.61_PSA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	58	ns
Min Limit	42	ns

krad	0	3	8	10	15	30	35	50	55	100	105
LL	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000
Min	50.505	49.731	50.747	50.393	49.952	50.275	49.253	49.023	49.410	47.514	48.057
Average	50.865	50.852	50.966	50.980	50.863	50.711	50.323	49.835	49.935	48.226	48.871
Max	51.388	51.490	51.252	51.492	51.556	51.215	51.284	50.731	50.829	48.593	49.193
UL	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000

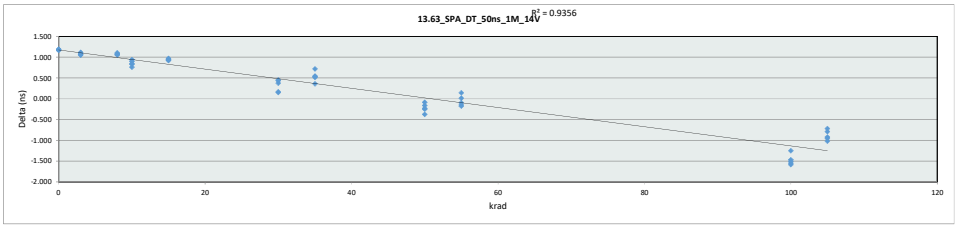


HDR TID Report
TPS7H5003-SP QMLP

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

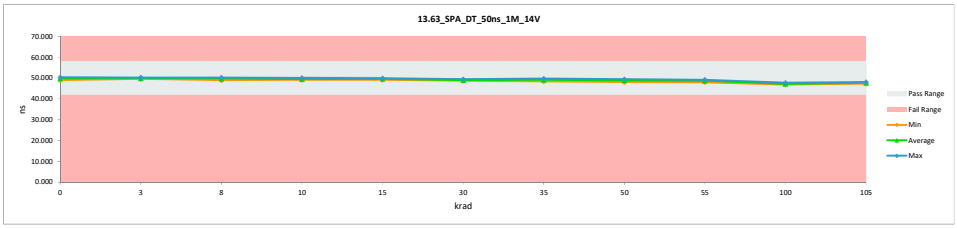
	13.63_SPA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	58	58
Min Limit	42	42

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	48.740	49.933	1.193
0	236	47.814	48.982	1.168
0	563	49.221	50.420	1.199
3	717	48.556	49.632	1.076
3	685	49.063	50.140	1.077
3	360	48.697	49.805	1.108
3	427	48.451	49.574	1.123
3	785	49.238	50.292	1.054
8	770	48.751	49.817	1.066
8	331	48.329	49.442	1.113
8	279	49.044	50.131	1.087
8	694	47.913	48.975	1.062
8	337	49.157	50.242	1.085
10	498	48.229	49.129	0.900
10	139	48.672	49.618	0.946
10	632	48.459	49.301	0.842
10	465	49.315	50.084	0.769
10	500	48.487	49.332	0.845
15	209	48.577	49.537	0.960
15	720	48.977	49.913	0.936
15	327	48.357	49.305	0.948
15	700	48.980	49.957	0.977
15	851	48.240	49.171	0.931
30	571	48.866	49.249	0.383
30	172	48.707	49.147	0.440
30	375	48.275	48.734	0.459
30	445	49.295	49.454	0.159
30	103	48.819	48.992	0.173
35	119	49.015	49.565	0.550
35	90	49.035	49.761	0.726
35	297	48.428	48.971	0.543
35	594	48.050	48.415	0.365
35	586	48.381	48.900	0.519
50	152	48.708	48.631	-0.077
50	359	49.506	49.263	-0.243
50	126	49.604	49.448	-0.156
50	883	48.367	48.144	-0.223
50	117	49.612	49.243	-0.369
55	301	48.511	48.660	0.149
55	593	48.127	48.037	-0.090
55	374	49.207	49.230	0.023
55	650	48.973	48.803	-0.170
55	324	48.851	48.710	-0.141
100	562	48.998	47.756	-1.242
100	753	48.453	46.992	-1.461
100	547	48.536	46.993	-1.543
100	724	48.424	46.918	-1.506
100	534	48.775	47.196	-1.579
105	265	48.491	47.708	-0.783
105	482	48.273	47.359	-0.914
105	372	48.218	47.508	-0.710
105	308	48.899	47.887	-1.012
105	438	49.047	48.100	-0.947
	Max	49.612	50.420	1.199
	Average	48.712	48.991	0.279
	Min	47.814	46.918	-1.579
	Std Dev	0.421	0.927	0.847



	13.63_SPA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	58	ns
Min Limit	42	ns

krad	0	3	8	10	15	30	35	50	55	100	105
LL	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000	42.000
Min	48.982	49.574	48.975	49.129	49.171	48.734	48.415	48.144	48.037	46.918	47.359
Average	49.778	49.889	49.721	49.493	49.577	49.115	49.122	48.946	48.688	47.171	47.712
Max	50.420	50.292	50.242	50.084	49.957	49.454	49.761	49.448	49.230	47.756	48.100
UL	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000	58.000

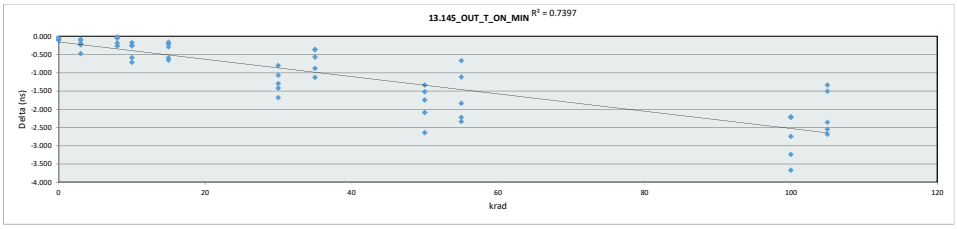


HDR TID Report
TPS7H5003-SP QMLP

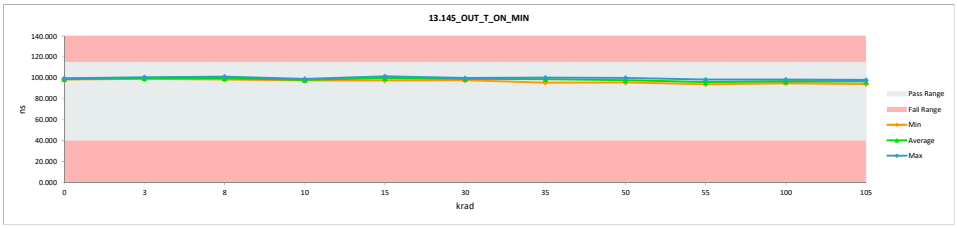
krad(Si)	Description
0	Control Units
3	3 krad Unbiased
8	3 krad Biased
10	10 krad Unbiased
15	10 krad Biased
30	30 krad Unbiased
35	30 krad Biased
50	50 krad Unbiased
55	50 krad Biased
100	100 krad Unbiased
105	100 krad Biased

	13.145_OUT_T_ON_MIN	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	115	115
Min Limit	40	40

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	98.751	98.656	-0.095
0	236	98.329	98.287	-0.042
0	563	99.730	99.643	-0.087
3	717	99.794	99.696	-0.098
3	685	100.915	100.689	-0.226
3	360	99.867	99.684	-0.183
3	427	100.537	100.069	-0.468
3	785	99.058	98.980	-0.078
8	770	100.320	100.275	-0.045
8	331	99.856	99.841	-0.015
8	279	98.656	98.479	-0.177
8	694	99.356	99.098	-0.258
8	337	101.283	101.258	-0.025
10	498	99.427	99.174	-0.253
10	139	98.007	97.432	-0.575
10	632	99.153	98.448	-0.705
10	465	97.598	97.434	-0.164
10	500	98.229	97.984	-0.245
15	209	101.892	101.306	-0.586
15	720	101.725	101.566	-0.159
15	327	100.180	99.532	-0.648
15	700	97.872	97.676	-0.196
15	851	99.589	99.312	-0.277
30	571	99.433	97.760	-1.673
30	172	99.891	99.096	-0.795
30	375	100.831	99.772	-1.059
30	445	100.764	99.350	-1.414
30	103	100.420	99.130	-1.290
35	119	96.649	95.531	-1.118
35	90	99.821	99.461	-0.360
35	297	100.578	100.222	-0.356
35	594	100.068	99.505	-0.563
35	586	100.277	99.406	-0.871
50	152	101.002	99.264	-1.738
50	359	101.406	100.078	-1.328
50	126	97.974	95.893	-2.081
50	883	99.642	98.130	-1.512
50	117	98.236	95.601	-2.635
55	301	100.542	98.326	-2.216
55	593	98.978	97.148	-1.830
55	374	96.279	95.169	-1.110
55	650	96.065	95.405	-0.660
55	324	96.292	93.963	-2.329
100	562	97.104	94.890	-2.214
100	753	100.464	97.232	-3.232
100	547	99.929	97.190	-2.739
100	724	100.690	98.492	-2.198
100	534	99.405	95.742	-3.663
105	265	96.805	94.125	-2.680
105	482	99.692	97.342	-2.350
105	372	99.457	97.956	-1.501
105	308	98.567	97.239	-1.328
105	438	98.430	95.886	-2.544
	Max	101.892	101.566	-0.015
	Average	99.355	98.280	-1.075
	Min	96.065	93.963	-3.663
	Std Dev	1.430	1.848	0.979



	13.145_OUT_T_ON_MIN										
Test Site											
Tester											
Test Number											
Max Limit	115	ns									
Min Limit	40	ns									
krad	0	3	8	10	15	30	35	50	55	100	105
LL	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000	40.000
Min	98.287	98.980	98.479	97.432	97.676	97.760	95.531	95.601	93.963	94.890	94.125
Average	98.862	99.824	99.790	98.094	99.878	99.022	98.825	97.793	96.002	96.709	96.510
Max	99.643	100.689	101.258	99.174	101.566	99.772	100.222	100.078	98.326	98.492	97.956
UL	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000	115.000

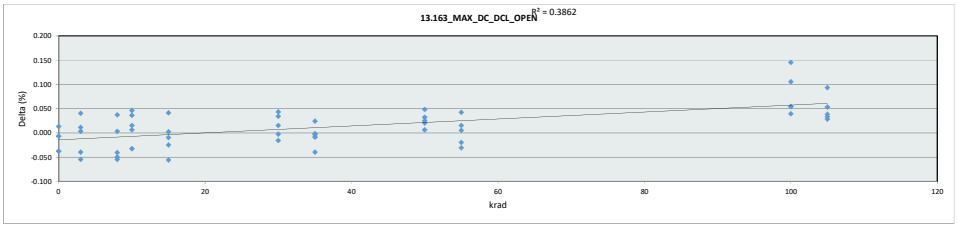


HDR TID Report
TPS7H5003-SP QMLP

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

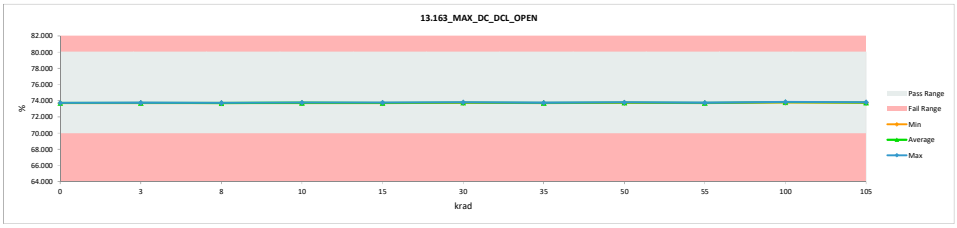
	13.163_MAX_DC_DCL_OPEN	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	80	80
Min Limit	70	70

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	73.706	73.720	0.014
0	236	73.747	73.710	-0.037
0	563	73.747	73.741	-0.006
3	717	73.696	73.700	0.004
3	685	73.681	73.722	0.041
3	360	73.739	73.751	0.012
3	427	73.758	73.704	-0.054
3	785	73.751	73.712	-0.039
8	770	73.699	73.737	0.038
8	331	73.732	73.692	-0.040
8	279	73.736	73.687	-0.049
8	694	73.759	73.705	-0.054
8	337	73.718	73.722	0.004
10	498	73.718	73.755	0.037
10	139	73.769	73.785	0.016
10	632	73.710	73.757	0.047
10	465	73.754	73.761	0.007
10	500	73.739	73.707	-0.032
15	209	73.734	73.776	0.042
15	720	73.738	73.683	-0.055
15	327	73.758	73.761	0.003
15	700	73.713	73.704	-0.009
15	851	73.765	73.741	-0.024
30	571	73.734	73.769	0.035
30	172	73.750	73.794	0.044
30	375	73.792	73.808	0.016
30	445	73.771	73.756	-0.015
30	103	73.739	73.737	-0.002
35	119	73.719	73.711	-0.008
35	90	73.726	73.723	-0.003
35	297	73.766	73.727	-0.039
35	594	73.729	73.754	0.025
35	586	73.741	73.740	-0.001
50	152	73.739	73.772	0.033
50	359	73.743	73.769	0.026
50	126	73.725	73.732	0.007
50	883	73.737	73.758	0.021
50	117	73.743	73.792	0.049
55	301	73.742	73.748	0.006
55	593	73.742	73.712	-0.030
55	374	73.747	73.728	-0.019
55	650	73.723	73.739	0.016
55	324	73.714	73.757	0.043
100	562	73.758	73.813	0.055
100	753	73.743	73.798	0.055
100	547	73.703	73.849	0.146
100	724	73.720	73.826	0.106
100	534	73.738	73.778	0.040
105	265	73.710	73.764	0.054
105	482	73.727	73.821	0.094
105	372	73.748	73.777	0.029
105	308	73.756	73.790	0.034
105	438	73.718	73.757	0.039
	Max	73.792	73.849	0.146
	Average	73.736	73.750	0.014
	Min	73.681	73.683	-0.055
	Std Dev	0.021	0.038	0.041



	13.163_MAX_DC_DCL_OPEN	
Test Site		
Tester		
Test Number		
Max Limit	80	%
Min Limit	70	%

krad	0	3	8	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	73.710	73.700	73.687	73.707	73.683	73.737	73.711	73.732	73.712	73.778	73.757
Average	73.724	73.718	73.709	73.753	73.733	73.773	73.731	73.765	73.737	73.813	73.782
Max	73.741	73.751	73.737	73.785	73.776	73.808	73.754	73.792	73.757	73.849	73.821
UL	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000	80.000

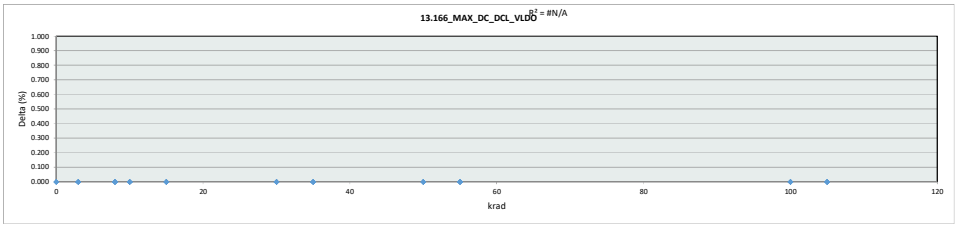


HDR TID Report
TPS7H5003-SP QMLP

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

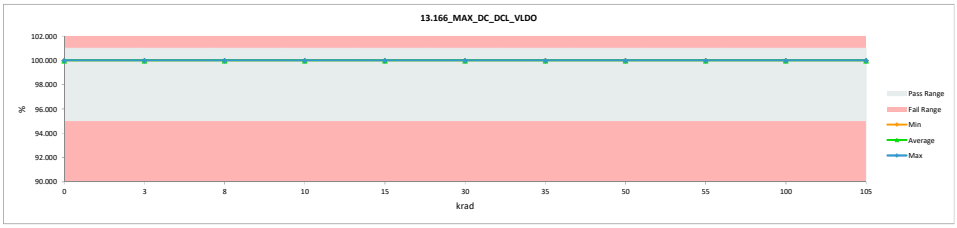
	13.166_MAX_DC_DCL_VLDO	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	101	101
Min Limit	95	95

krad	Serial #	PRE_HDR	POST_HDR	Delta
0	797	100.000	100.000	0.000
0	236	100.000	100.000	0.000
0	563	100.000	100.000	0.000
3	717	100.000	100.000	0.000
3	685	100.000	100.000	0.000
3	360	100.000	100.000	0.000
3	427	100.000	100.000	0.000
3	785	100.000	100.000	0.000
8	770	100.000	100.000	0.000
8	331	100.000	100.000	0.000
8	279	100.000	100.000	0.000
8	694	100.000	100.000	0.000
8	337	100.000	100.000	0.000
10	498	100.000	100.000	0.000
10	139	100.000	100.000	0.000
10	632	100.000	100.000	0.000
10	465	100.000	100.000	0.000
10	500	100.000	100.000	0.000
15	209	100.000	100.000	0.000
15	720	100.000	100.000	0.000
15	327	100.000	100.000	0.000
15	700	100.000	100.000	0.000
15	851	100.000	100.000	0.000
30	571	100.000	100.000	0.000
30	172	100.000	100.000	0.000
30	375	100.000	100.000	0.000
30	445	100.000	100.000	0.000
30	103	100.000	100.000	0.000
35	119	100.000	100.000	0.000
35	90	100.000	100.000	0.000
35	297	100.000	100.000	0.000
35	594	100.000	100.000	0.000
35	586	100.000	100.000	0.000
50	152	100.000	100.000	0.000
50	359	100.000	100.000	0.000
50	126	100.000	100.000	0.000
50	883	100.000	100.000	0.000
50	117	100.000	100.000	0.000
55	301	100.000	100.000	0.000
55	593	100.000	100.000	0.000
55	374	100.000	100.000	0.000
55	650	100.000	100.000	0.000
55	324	100.000	100.000	0.000
100	562	100.000	100.000	0.000
100	753	100.000	100.000	0.000
100	547	100.000	100.000	0.000
100	724	100.000	100.000	0.000
100	534	100.000	100.000	0.000
105	265	100.000	100.000	0.000
105	482	100.000	100.000	0.000
105	372	100.000	100.000	0.000
105	308	100.000	100.000	0.000
105	438	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_MAX_DC_DCL_VLDO	
Test Site		
Tester		
Test Number		
Max Limit	101	%
Min Limit	95	%

krad	0	3	8	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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