



## ABSTRACT

This report covers the radiation characterization results of the SN54SC8T151-SEP, radiation tolerant 8-line to 1-line data selectors/multiplexers. The study was done to determine Total Ionizing Dose (TID) effects under high dose rate (HDR) to 30krad(Si). Radiation Lot Acceptance Testing (RLAT) will be performed using five units at a dose level of 30krad(Si) per MIL-STD-883 TM 1019. All future wafer lots will be tested under the same conditions. The device is manufactured in pure CMOS process. HDR TID response is the worst case. TID HDR characterization was performed per TM 1019.

The SN54SC8T151-SEP is packaged in a space enhanced plastic package for low outgassing characteristics and is Single Event Latch-Up (SEL) immune up to 50MeV-cm<sup>2</sup>/mg, which makes the device an option for low Earth orbit space applications. Single Event Transient (SET) data is also provided in the Single Event Effects Radiation Report.

For full total ionizing dose characterization results, see [SN54SC8T138-SEP Total Ionizing Dose \(TID\) Report](#).

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## Trademarks

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## 1 Device Information

The SN54SC8T151-SEP data selector/multiplexer provides full binary decoding to select one of eight data sources. The strobe ( $\bar{G}$ ) input must be at a low logic level to enable the inputs. A high level at the strobe terminal forces the standard output (Y) low and the inverted output (W) high.

### 1.1 Device Details

Table 1-1 lists the device information used for TID HDR characterization and qualification.

**Table 1-1. Device and Exposure Details**

TID HDR Details: Up To 30krad(Si)	
TI Device Number	SN54SC8T151-SEP
VID Number	V62/25634
Package	16-pin PW (TSSOP)
Technology	LBC9
Die Lot Number	3282529RFB
A/T Lot Number and Date Code	4165141ML4 / 42C8FVK
Quantity Tested	6 irradiated devices + 4 control
Lot Accept or Reject	Devices passed 30krad(Si)
HDR Radiation Facility	Texas Instruments CLAB in Dallas, Texas
HDR Dose Level	30krad(Si)
HDR Dose Rate	174.54rad(Si)/s ionizing radiation
Effective Dose Rate 30krad(Si) with 72 hour Anneal	115.74mrad(Si)/s ionizing radiation
HDR Radiation Source	Gammacell 220 Excel (GC-220E) Co-60
Irradiation Temperature	Ambient, room temperature

## 2 Total Dose Test Setup

### 2.1 Test Overview

The SN54SC8T151-SEP samples were irradiated at a high dose rate of 174.54rad(Si)/s up to 30krad(Si) (115.74mrad(Si)/s effective does rate for 30krad(Si) with 72 hour anneal) and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). The samples were functional and passed all electrical parametric tests with readings within data sheet electrical specification limits.

### 2.2 Test Description and Facilities

The SN54SC8T151-SEP HDR exposure was performed on biased devices in a Co-60 gamma cell at TI facility in Dallas, Texas. The un-attenuated dose rate of this cell is 174.54rads(Si)/s (115.74mrad(Si)/s effective does rate of 30krad(Si) with 72 hour anneal). 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 were tested in biased conditions as described in the following sections.

#### 2.3.1 Bias Diagram

Figure 2-1 shows the bias conditions for each pin during irradiation.

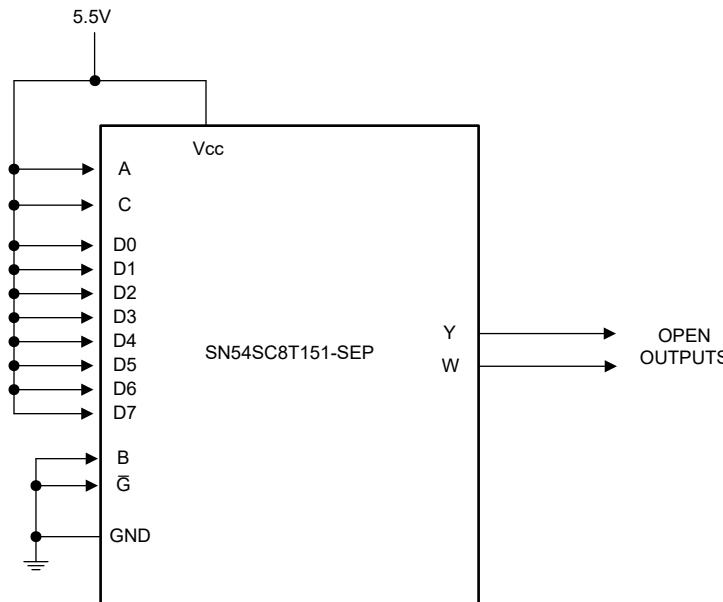


Figure 2-1. SN54SC8T151-SEP Bias Diagram

## 2.4 Test Configuration and Condition

The HDR RLAT units were irradiated to 30krad(Si), parametrically tested on ATE, and then were annealed at 25°C for 72 hours. The units that were irradiated to 30krad(Si) and were annealed for 72 hours are denoted as 31krad(Si) in [Section 5](#). ATE parametric testing was completed before and after the anneal.

[Table 2-1](#) lists the serialized samples used for TID characterization.

**Table 2-1. HDR Device Information**

Control Group	HDR Dose Rate = 174.54rad(Si)/s Effective Dose Rate (30krad + Anneal 72 hours) = 115.74mrad(Si)/s	
<b>Total Samples: 4</b>		<b>Total Samples: 6 Biased</b>
		<b>Exposure Levels</b>
Okrad (Si)	30krad(Si)	
Biased	Biased	Biased + 72 hour anneal
1 - 4	5 - 10	5a - 10a

## 3 TID Characterization Test Results

### 3.1 TID Characterization Summary Results

The parametric data for the SN54SC8T151-SEP passes up to 30krad(Si) (with 72 hour room temperature anneal) HDR TID irradiation. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the SN54SC8T151-SEP showed a strong degree of hardness to HDR TID irradiation up to 30krad(Si). The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level. The parameters that did show a greater degree of change between pre- and post-irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters. For the data sheet electrical parameters and associated tests, see [SN54SC8T151-SEP Radiation-Tolerant, 8-Line To 1-Line Data Selectors/Multiplexers](#).

See [Section 5](#) for HDR report up to 30 krad(Si).

### 3.2 Specification Compliance Matrix

**Table 3-1. Electrical Parameters Table**

Parameter	Test Conditions	V <sub>CC</sub>	T <sub>A</sub> = -55°C to +125°C			Unit	Test Name
			MIN	TYP	MAX		
V <sub>T+</sub> 1	Positive-going input threshold voltage	1.2V to 1.3V	0.31	0.655	1.1	V	VTP_1P2V
		1.65V to 2V	0.39	0.915	1.32		VTP_1P65V
		2.25V to 2.75V	0.51	1.09	1.51		VTP_2P25V
		3V to 3.6V	0.65	1.2	1.7		VTP_3V
		4.5V to 5.5V	0.87	1.51	2.16		VTP_4P5V, VTP_5P5V
V <sub>T-</sub> 1	Negative-going input threshold voltage	1.2V to 1.3V	0.11	0.349	0.60	V	VTN_1P2V
		1.65V to 2V	0.18	0.455	0.63		VTN_1P65V
		2.25V to 2.75V	0.25	0.545	0.74		VTN_2P25V
		3V to 3.6V	0.33	0.635	0.85		VTN_3V
		4.5V to 5.5V	0.45	0.755	1.14		VTN_4P5V, VTN_5P5V
ΔV <sub>T</sub> 1	Hysteresis (V <sub>T+</sub> – V <sub>T-</sub> )	1.2V to 1.3V	0.2	0.29	0.77	V	DELTAVT_1P2V
		1.65V to 2V	0.21	0.43	0.88		DELTAVT_1P65V
		2.25V to 2.75V	0.25	0.54	0.91		DELTAVT_2P25V
		3V to 3.6V	0.31	0.63	0.91		DELTAVT_3V
		4.5V to 5.5V	0.43	0.75	1.05		DELTAVT_4P5V, DELTAVT_5P5V
V <sub>IH</sub>	High-level input voltage	1.2V to 1.3V	0.78			V	VIH_1P2V
		1.65V to 2V	1.1				VIH_1P65V
		2.25V to 2.75V	1.28				VIH_2P25V
		3V to 3.6V	1.45				VIH_3V
		4.5V to 5.5V	2				VIH_4P5V, VIH_5P5V
V <sub>IL</sub>	Low-Level input voltage	1.2V to 1.3V			0.18	V	VIL_1P2V
		1.65V to 2V			0.5		VIL_1P65V
		2.25V to 2.75V			0.65		VIL_2P25V
		3V to 3.6V			0.75		VIL_3V
		4.5V to 5.5V			0.85		VIL_4P5V, VIL_5P5V
V <sub>OH</sub> 2	I <sub>OH</sub> = -50μA	1.2V to 5.5V	V <sub>CC</sub> -0.2			V	VOH_N50UA_1P2V, VOH_N50UA_5P5V
	I <sub>OH</sub> = -1mA	1.2V	0.8				VOH_N1MA_1P2V
	I <sub>OH</sub> = -2mA	1.65V to 2V	1.21				VOH_N2MA_1P65V
	I <sub>OH</sub> = -3mA	2.25V to 2.75V	1.93				VOH_N3MA_2P25V
	I <sub>OH</sub> = -5.5mA	3V to 3.6V	2.49				VOH_N5P5MA_3V
	I <sub>OH</sub> = -8mA	4.5V to 5.5V	3.95				VOH_N8MA_4P5V
	I <sub>OH</sub> = -24mA	4.5V to 5.5V	3.15				VOH_N24MA_5P5V
V <sub>OL</sub>	I <sub>OL</sub> = 50μA	1.2V to 5.5V			0.1	V	VOL_50UA_1P2V, VOL_50UA_5P5V
	I <sub>OL</sub> = 1mA	1.2V			0.2		VOL_1MA_1P2V
	I <sub>OL</sub> = 2mA	1.65V to 2V			0.25		VOL_2MA_1P65V
	I <sub>OL</sub> = 3mA	2.25V to 2.75V			0.2		VOL_3MA_2P25V
	I <sub>OL</sub> = 5.5mA	3V to 3.6V			0.25		VOL_5P5MA_3V
	I <sub>OL</sub> = 8mA	4.5V to 5.5V			0.35		VOL_8MA_4P5V
	I <sub>OL</sub> = 24mA	4.5V to 5.5V			0.75		VOL_24MA_5P5V
I <sub>CC</sub>	V <sub>I</sub> = V <sub>CC</sub> or GND, I <sub>O</sub> = 0	1.2V to 5.5V		2	220	μA	ICC_5P5V
ΔI <sub>CC</sub>	One input at 0.3V or 3.4V, other inputs at V <sub>CC</sub> or GND	5.5V			1.5	mA	DELTACC_5P5V
	One input at 0.3V or 1.1V, other inputs at V <sub>CC</sub> or GND	1.8V			68	μA	DELTACC_1P8V
I <sub>OZ</sub> 3	V <sub>O</sub> = V <sub>CC</sub> or GND	5.5V			±26	μA	IOZ_5P5V
I <sub>I</sub>	V <sub>I</sub> = 0V to V <sub>CC</sub>	V <sub>I</sub> = 0V to V <sub>CC</sub>			±1	μA	II_5P5V

1. Schmitt-trigger input devices only.
2. Push-pull output devices only.
3. 3-State output devices only.

## 4 Reference Documents

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

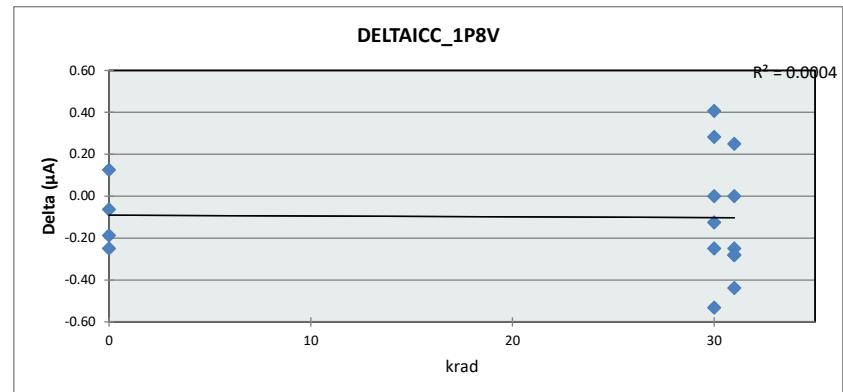
## 5 Appendix: HDR TID Report Data

This appendix provides the SN54SC8T151-SEP TID HDR report. The report shows the variation for each parameter up to 30krad(Si).

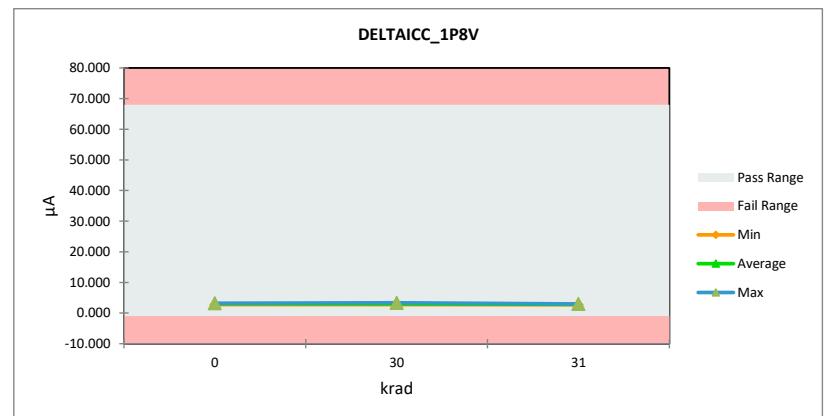
# TID Report

## SN54SC8T151-SEP

DETAICC_1P8V						
Units	$\mu\text{A}$					
Max Limit	68					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	3.067	3.192	0.13	4.08%	0.18%
0	2	3.224	3.161	-0.06	-1.95%	0.09%
0	3	2.942	2.754	-0.19	-6.39%	0.27%
0	4	3.255	3.005	-0.25	-7.68%	0.36%
30	5	2.942	3.349	0.41	13.83%	0.59%
30	6	2.723	3.005	0.28	10.36%	0.41%
30	7	2.973	2.848	-0.13	-4.20%	0.18%
30	8	3.067	2.817	-0.25	-8.15%	0.36%
30	9	3.098	3.098	0.00	0.00%	0.00%
30	10	3.286	2.754	-0.53	-16.19%	0.77%
31	5a	2.942	2.942	0.00	0.00%	0.00%
31	6a	2.723	2.973	0.25	9.18%	0.36%
31	7a	2.973	2.692	-0.28	-9.45%	0.41%
31	8a	3.067	2.817	-0.25	-8.15%	0.36%
31	9a	3.098	2.817	-0.28	-9.07%	0.41%
31	10a	3.286	2.848	-0.44	-13.33%	0.63%
Max		3.286	3.349	0.06	13.83%	0.77%
Average		3.042	2.942	-0.10	-2.95%	0.34%
Min		2.723	2.692	-0.03	-16.19%	0.00%
Std Dev		0.173	0.184	0.01	8.67%	0.22%

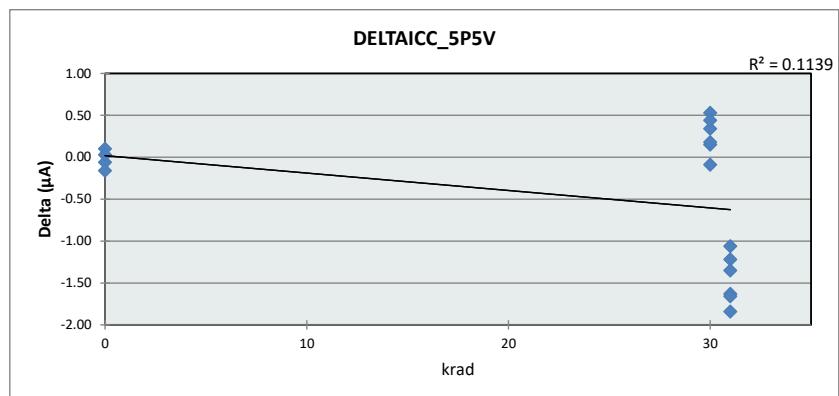


DETAICC_1P8V						
Units	$\mu\text{A}$					
Max Limit	68					
Min Limit	-1					
krad	0	30	31	LL	Min	Max
LL	-1.000	-1.000	-1.000	2.754	2.754	2.692
Min	2.754	2.754	2.692	2.754	2.754	2.848
Average	3.028	2.979	2.848	3.028	2.979	2.973
Max	3.192	3.349	2.973	3.192	3.349	2.973
UL	68.000	68.000	68.000	68.000	68.000	68.000

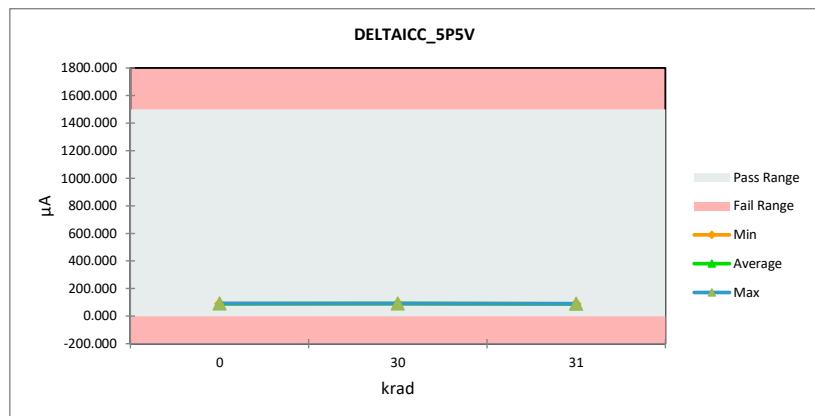


TID Report  
SN54SC8T151-SEP

DELTACC_5P5V						
Units	µA					
Max Limit	1500					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	90.700	90.640	-0.06	-0.07%	0.00%
0	2	90.980	90.820	-0.16	-0.18%	0.01%
0	3	90.540	90.640	0.10	0.11%	0.01%
0	4	90.510	90.540	0.03	0.03%	0.00%
30	5	91.140	91.480	0.34	0.37%	0.02%
30	6	90.510	91.040	0.53	0.59%	0.04%
30	7	91.110	91.260	0.15	0.16%	0.01%
30	8	91.010	90.920	-0.09	-0.10%	0.01%
30	9	90.890	91.070	0.18	0.20%	0.01%
30	10	90.950	91.390	0.44	0.48%	0.03%
31	5a	91.140	89.790	-1.35	-1.48%	0.09%
31	6a	90.510	88.880	-1.63	-1.80%	0.11%
31	7a	91.110	89.450	-1.66	-1.82%	0.11%
31	8a	91.010	89.170	-1.84	-2.02%	0.12%
31	9a	90.890	89.670	-1.22	-1.34%	0.08%
31	10a	90.950	89.890	-1.06	-1.17%	0.07%
		Max	91.140	91.480	0.34	0.59%
		Average	90.872	90.416	-0.46	-0.50%
		Min	90.510	88.880	-1.63	-2.02%
		Std Dev	0.238	0.825	0.59	0.92%
						0.04%



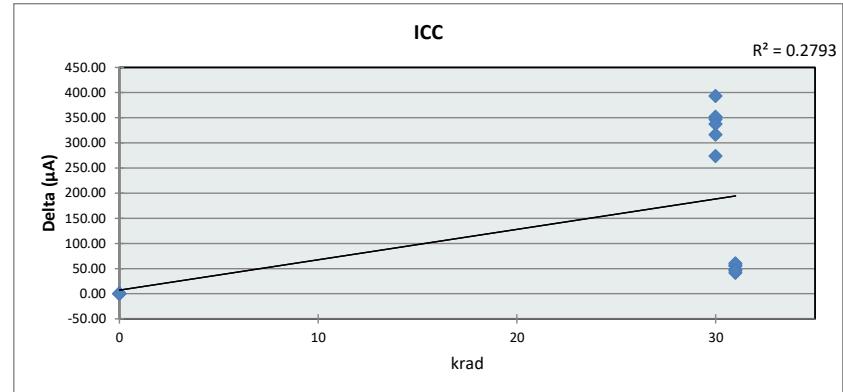
DETAICC_5P5V			
Units	µA		
Max Limit	1500		
Min Limit	-1		
krad	0	30	31
LL	-1.000	-1.000	-1.000
Min	90.540	90.920	88.880
Average	90.660	91.193	89.475
Max	90.820	91.480	89.890
UL	1500.000	1500.000	1500.000



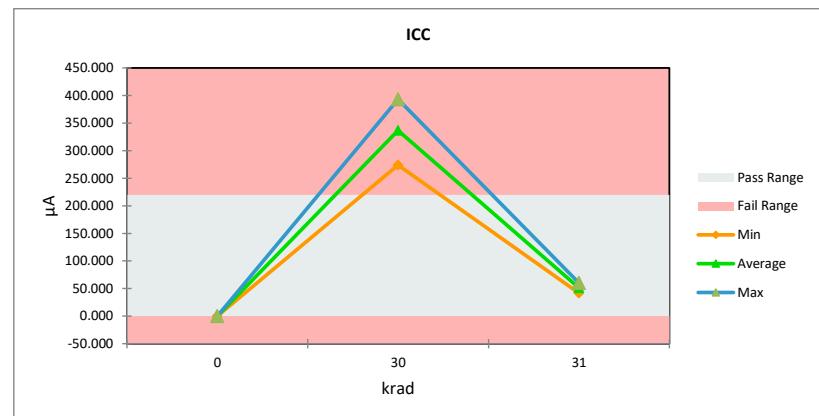
# TID Report

## SN54SC8T151-SEP

ICC						
Units	$\mu\text{A}$					
Max Limit	220					
Min Limit	-0.1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.026	0.019	-0.01	-26.69%	0.00%
0	2	0.029	0.018	-0.01	-37.88%	0.00%
0	3	0.021	0.012	-0.01	-40.65%	0.00%
0	4	0.024	0.018	-0.01	-25.20%	0.00%
30	5	0.018	346.800	346.78	1922294.68%	157.56%
30	6	0.021	393.200	393.18	1913282.00%	178.64%
30	7	0.016	351.900	351.88	2267296.91%	159.87%
30	8	0.012	337.300	337.29	2724455.74%	153.24%
30	9	0.033	273.900	273.87	826892.75%	124.43%
30	10	0.019	316.500	316.48	1667444.78%	143.79%
31	5a	0.018	54.880	54.86	304112.86%	24.93%
31	6a	0.021	60.290	60.27	293282.00%	27.38%
31	7a	0.016	56.770	56.75	365686.08%	25.79%
31	8a	0.012	47.510	47.50	383664.14%	21.58%
31	9a	0.033	41.650	41.62	125654.83%	18.91%
31	10a	0.019	45.920	45.90	241838.88%	20.85%
Max		0.033	393.200	393.17	2724455.74%	178.64%
Average		0.021	145.418	145.40	814735.95%	66.06%
Min		0.012	0.00	-40.65%	0.00%	
Std Dev		0.006	156.056	156.05	941497.63%	70.90%



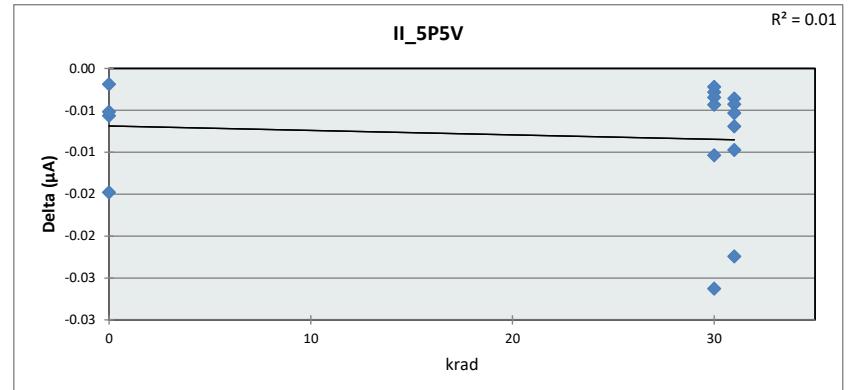
ICC						
Units	$\mu\text{A}$					
Max Limit	220					
Min Limit	-0.1					
krad	0	30	31	LL	Min	Max
Max	0.033	393.200	393.17	-0.100	-0.100	-0.100
Average	0.021	145.418	145.40	0.012	273.900	41.650
Min	0.012	0.00	-40.65%	0.00	336.600	51.170
Std Dev	0.006	156.056	156.05	0.019	393.200	60.290
				UL	220.000	220.000



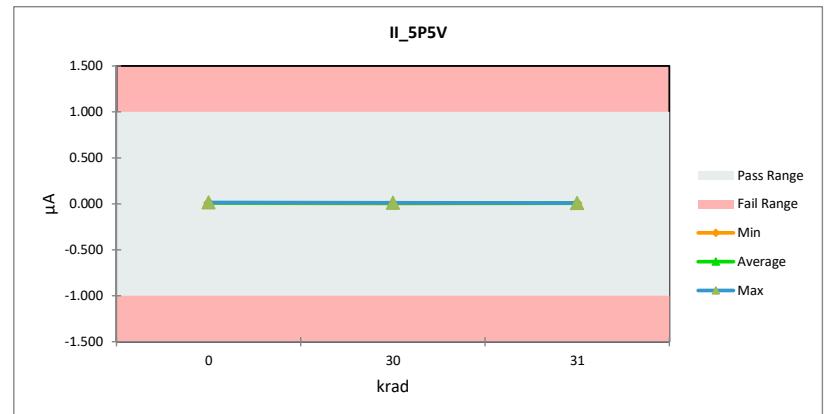
# TID Report

## SN54SC8T151-SEP

II_5P5V						
Units	$\mu\text{A}$					
Max Limit	1					
Min Limit	-1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.014	0.009	-0.01	-39.20%	0.28%
0	2	0.020	0.015	-0.01	-25.72%	0.26%
0	3	0.023	0.008	-0.01	-65.37%	0.74%
0	4	0.013	0.011	0.00	-14.34%	0.09%
30	5	0.015	0.012	0.00	-19.30%	0.14%
30	6	0.011	0.008	0.00	-30.65%	0.17%
30	7	0.013	0.011	0.00	-16.47%	0.11%
30	8	0.030	0.004	-0.03	-87.93%	1.31%
30	9	0.012	0.007	0.00	-37.37%	0.22%
30	10	0.016	0.006	-0.01	-65.32%	0.52%
31	5a	0.015	0.008	-0.01	-47.28%	0.35%
31	6a	0.011	0.008	0.00	-31.78%	0.18%
31	7a	0.013	0.009	0.00	-31.98%	0.21%
31	8a	0.030	0.007	-0.02	-74.98%	1.12%
31	9a	0.012	0.006	-0.01	-46.05%	0.27%
31	10a	0.016	0.006	-0.01	-61.36%	0.49%
Max		0.030	0.015	-0.01	-14.34%	1.31%
Average		0.016	0.008	-0.01	-43.44%	0.40%
Min		0.011	0.004	-0.01	-87.93%	0.09%
Std Dev		0.006	0.003	0.00	21.96%	0.36%



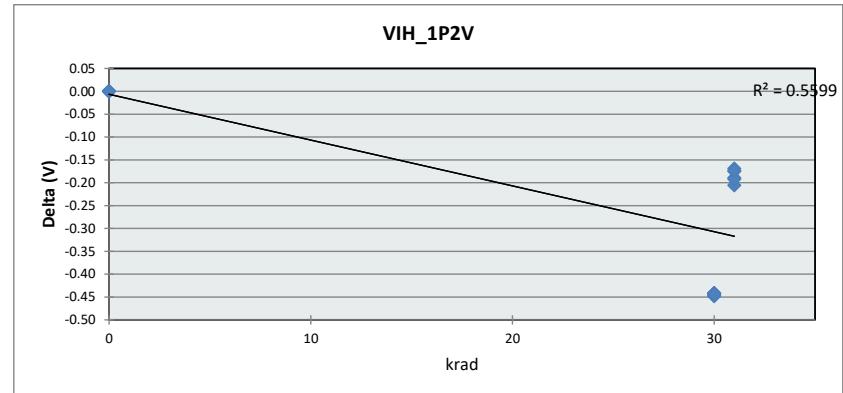
II_5P5V						
Units	$\mu\text{A}$					
Max Limit	1					
Min Limit	-1					
krad	0	30	31	LL	Min	UL
LL	-1.000	-1.000	-1.000	0.008	0.004	0.006
Min	0.008	0.004	0.006	0.011	0.008	0.007
Average	0.011	0.008	0.007	0.015	0.012	0.009
Max	0.015	0.012	0.009	1.000	1.000	1.000
UL	1.000	1.000	1.000			



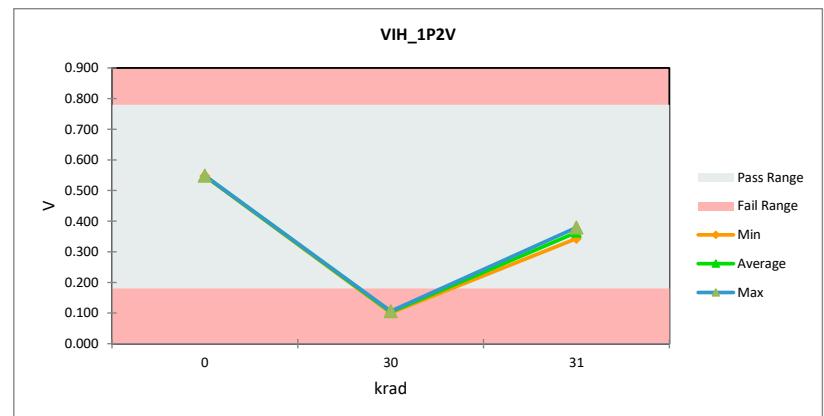
# TID Report

## SN54SC8T151-SEP

VIH_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.547	0.547	0.00	0.00%	0.00%
0	2	0.549	0.548	0.00	-0.11%	0.10%
0	3	0.547	0.548	0.00	0.11%	0.10%
0	4	0.548	0.548	0.00	0.11%	0.10%
30	5	0.548	0.101	-0.45	-81.54%	74.49%
30	6	0.549	0.101	-0.45	-81.67%	74.69%
30	7	0.547	0.105	-0.44	-80.72%	73.58%
30	8	0.548	0.106	-0.44	-80.63%	73.58%
30	9	0.548	0.104	-0.44	-80.98%	73.98%
30	10	0.547	0.102	-0.44	-81.27%	74.09%
31	5a	0.548	0.359	-0.19	-34.52%	31.53%
31	6a	0.549	0.343	-0.21	-37.46%	34.26%
31	7a	0.547	0.355	-0.19	-35.15%	32.04%
31	8a	0.548	0.372	-0.18	-32.01%	29.21%
31	9a	0.548	0.379	-0.17	-30.87%	28.20%
31	10a	0.547	0.373	-0.17	-31.71%	28.91%
Max		0.549	0.548	0.00	0.11%	74.69%
Average		0.548	0.312	-0.24	-43.03%	39.30%
Min		0.547	0.101	-0.45	-81.67%	0.00%
Std Dev		0.001	0.183	0.18	33.36%	30.42%



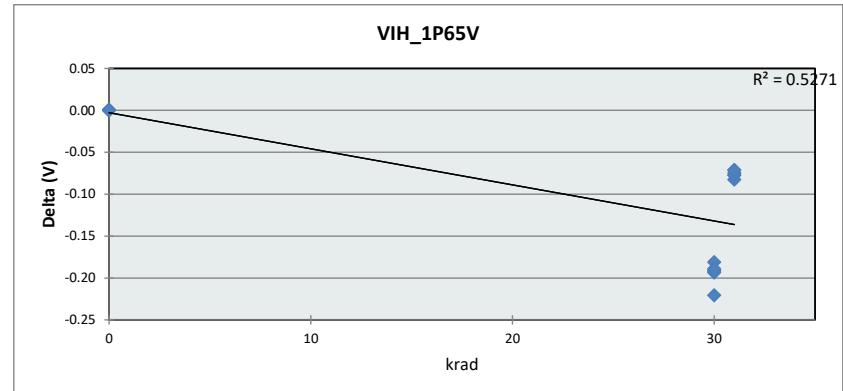
VIH_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	0	30	31	LL	Min	Average
LL	0.180	0.180	0.180	0.180	0.180	0.180
Min	0.547	0.101	0.343	0.547	0.101	0.343
Average	0.548	0.103	0.364	0.548	0.106	0.364
Max	0.548	0.106	0.379	0.548	0.106	0.379
UL	0.780	0.780	0.780	0.780	0.780	0.780



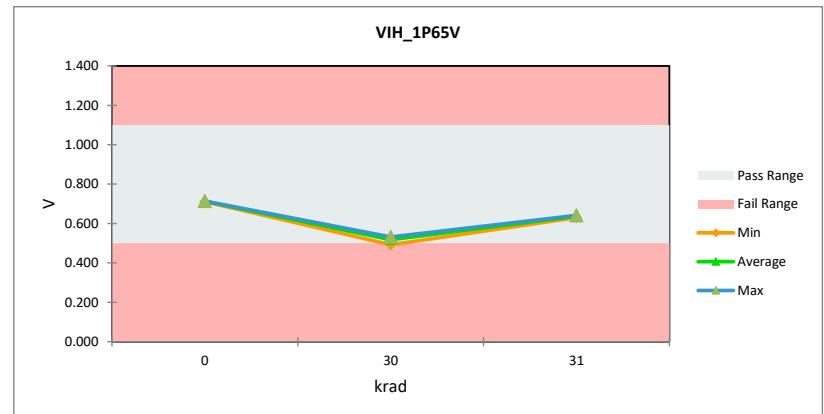
# TID Report

## SN54SC8T151-SEP

VIH_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.711	0.711	0.00	0.00%	0.00%
0	2	0.714	0.714	0.00	0.00%	0.00%
0	3	0.712	0.713	0.00	0.12%	0.15%
0	4	0.713	0.713	0.00	0.00%	0.00%
30	5	0.713	0.521	-0.19	-26.89%	31.95%
30	6	0.713	0.492	-0.22	-30.96%	36.78%
30	7	0.712	0.519	-0.19	-27.17%	32.24%
30	8	0.712	0.521	-0.19	-26.80%	31.80%
30	9	0.713	0.532	-0.18	-25.41%	30.19%
30	10	0.711	0.522	-0.19	-26.59%	31.51%
31	5a	0.713	0.636	-0.08	-10.85%	12.90%
31	6a	0.713	0.630	-0.08	-11.59%	13.78%
31	7a	0.712	0.637	-0.07	-10.50%	12.46%
31	8a	0.712	0.635	-0.08	-10.87%	12.90%
31	9a	0.713	0.642	-0.07	-9.99%	11.87%
31	10a	0.711	0.640	-0.07	-10.02%	11.87%
Max		0.714	0.714	0.00	0.12%	36.78%
Average		0.712	0.611	-0.10	-14.22%	16.90%
Min		0.711	0.492	-0.22	-30.96%	0.00%
Std Dev		0.001	0.081	0.08	11.36%	13.46%



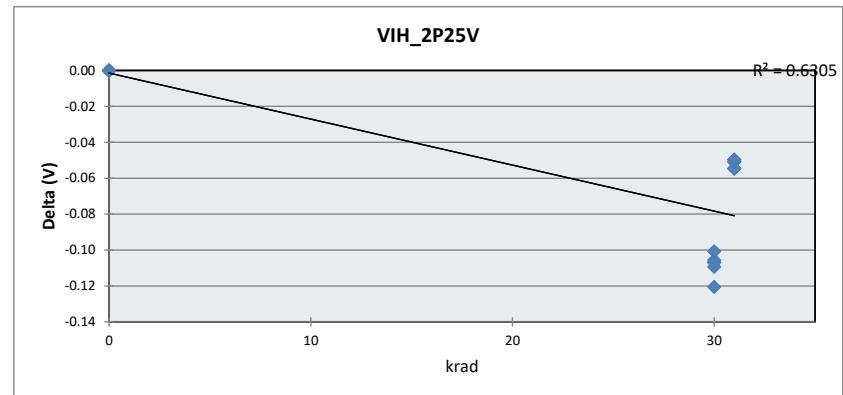
VIH_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	0	30	31			
LL	0.500	0.500	0.500			
Min	0.711	0.492	0.630			
Average	0.713	0.518	0.637			
Max	0.714	0.532	0.642			
UL	1.100	1.100	1.100			



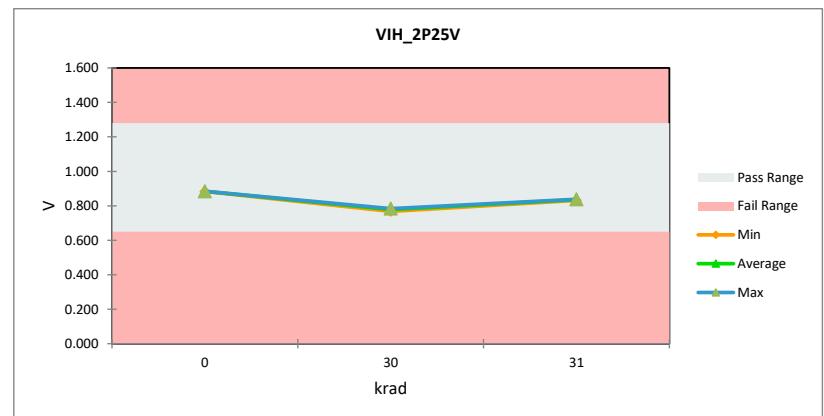
# TID Report

## SN54SC8T151-SEP

VIH_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.884	0.884	0.00	0.00%	0.00%
0	2	0.884	0.884	0.00	0.00%	0.00%
0	3	0.883	0.883	0.00	0.00%	0.00%
0	4	0.884	0.884	0.00	0.00%	0.00%
30	5	0.887	0.780	-0.11	-12.05%	16.97%
30	6	0.888	0.768	-0.12	-13.58%	19.14%
30	7	0.886	0.780	-0.11	-11.93%	16.77%
30	8	0.889	0.780	-0.11	-12.30%	17.37%
30	9	0.884	0.784	-0.10	-11.39%	15.98%
30	10	0.886	0.779	-0.11	-12.07%	16.97%
31	5a	0.887	0.836	-0.05	-5.75%	8.09%
31	6a	0.888	0.833	-0.05	-6.16%	8.68%
31	7a	0.886	0.831	-0.05	-6.18%	8.68%
31	8a	0.889	0.838	-0.05	-5.73%	8.09%
31	9a	0.884	0.835	-0.05	-5.62%	7.89%
31	10a	0.886	0.836	-0.05	-5.61%	7.89%
Max		0.889	0.884	0.00	0.00%	19.14%
Average		0.886	0.826	-0.06	-6.77%	9.53%
Min		0.883	0.768	-0.12	-13.58%	0.00%
Std Dev		0.002	0.043	0.04	4.96%	6.99%



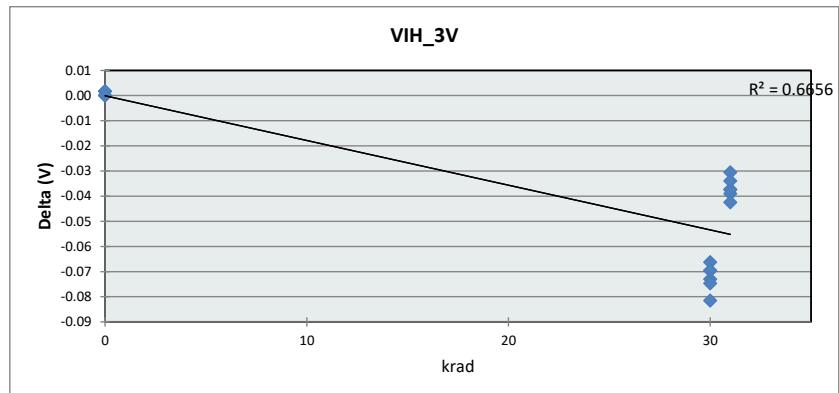
VIH_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	0	30	31	LL	Min	UL
LL	0.650	0.650	0.650	0.883	0.768	0.831
Min	0.883	0.768	0.831	0.884	0.778	0.835
Average	0.884	0.778	0.835	0.884	0.784	0.838
Max	0.884	0.784	0.838	1.280	1.280	1.280



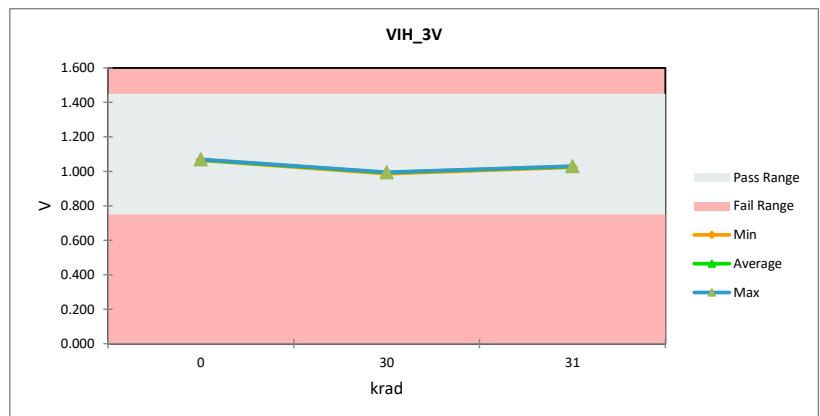
# TID Report

## SN54SC8T151-SEP

VIH_3V						
Units		V				
Max Limit		1.45				
Min Limit		0.75				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.064	1.064	0.00	0.00%	0.00%
0	2	1.068	1.070	0.00	0.16%	0.24%
0	3	1.064	1.066	0.00	0.16%	0.24%
0	4	1.066	1.066	0.00	0.00%	0.00%
30	5	1.068	0.995	-0.07	-6.84%	10.43%
30	6	1.068	0.986	-0.08	-7.63%	11.64%
30	7	1.066	0.991	-0.07	-7.01%	10.67%
30	8	1.061	0.995	-0.07	-6.24%	9.46%
30	9	1.064	0.995	-0.07	-6.54%	9.95%
30	10	1.063	0.993	-0.07	-6.55%	9.95%
31	5a	1.068	1.031	-0.04	-3.50%	5.34%
31	6a	1.068	1.029	-0.04	-3.66%	5.58%
31	7a	1.066	1.024	-0.04	-3.98%	6.06%
31	8a	1.061	1.031	-0.03	-2.88%	4.37%
31	9a	1.064	1.027	-0.04	-3.51%	5.34%
31	10a	1.063	1.029	-0.03	-3.20%	4.85%
Max		1.068	1.070	0.00	0.16%	11.64%
Average		1.065	1.024	-0.04	-3.83%	5.88%
Min		1.061	0.986	-0.07	-7.63%	0.00%
Std Dev		0.002	0.030	0.03	2.79%	4.16%



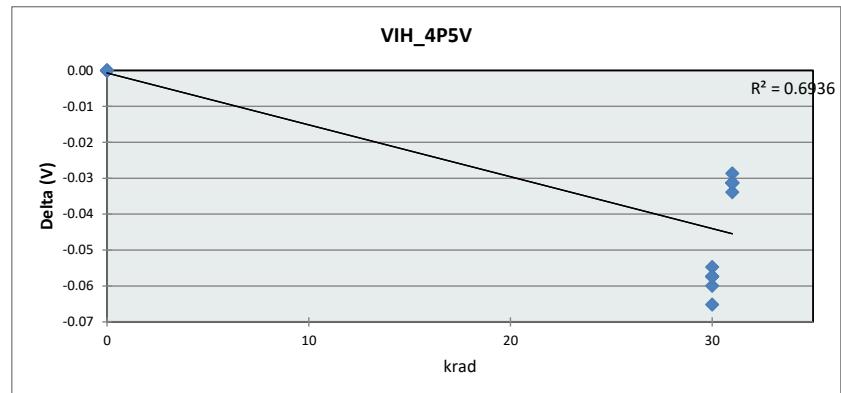
VIH_3V						
Units		V				
Max Limit		1.45				
Min Limit		0.75				
krad	0	30	31			
LL	0.750	0.750	0.750			
Min	1.064	0.986	1.024			
Average	1.067	0.993	1.028			
Max	1.070	0.995	1.031			
UL	1.450	1.450	1.450			



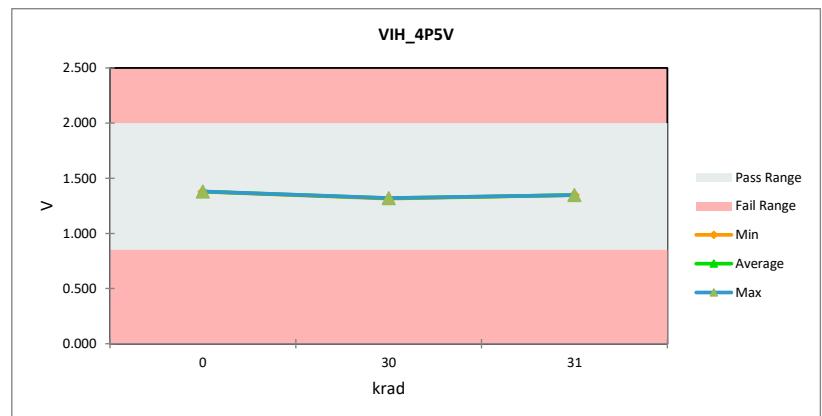
# TID Report

## SN54SC8T151-SEP

VIH_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.378	1.378	0.00	0.00%	0.00%
0	2	1.380	1.380	0.00	0.00%	0.00%
0	3	1.378	1.378	0.00	0.00%	0.00%
0	4	1.380	1.380	0.00	0.00%	0.00%
30	5	1.378	1.320	-0.06	-4.16%	4.99%
30	6	1.380	1.315	-0.07	-4.72%	5.67%
30	7	1.378	1.318	-0.06	-4.35%	5.22%
30	8	1.375	1.320	-0.05	-3.98%	4.76%
30	9	1.378	1.320	-0.06	-4.16%	4.99%
30	10	1.378	1.320	-0.06	-4.16%	4.99%
31	5a	1.378	1.346	-0.03	-2.27%	2.72%
31	6a	1.380	1.346	-0.03	-2.46%	2.95%
31	7a	1.378	1.346	-0.03	-2.27%	2.72%
31	8a	1.375	1.346	-0.03	-2.09%	2.49%
31	9a	1.378	1.346	-0.03	-2.27%	2.72%
31	10a	1.378	1.346	-0.03	-2.27%	2.72%
Max		1.380	1.380	0.00	0.00%	5.67%
Average		1.378	1.344	-0.03	-2.45%	2.93%
Min		1.375	1.315	-0.06	-4.72%	0.00%
Std Dev		0.002	0.024	0.02	1.72%	2.06%



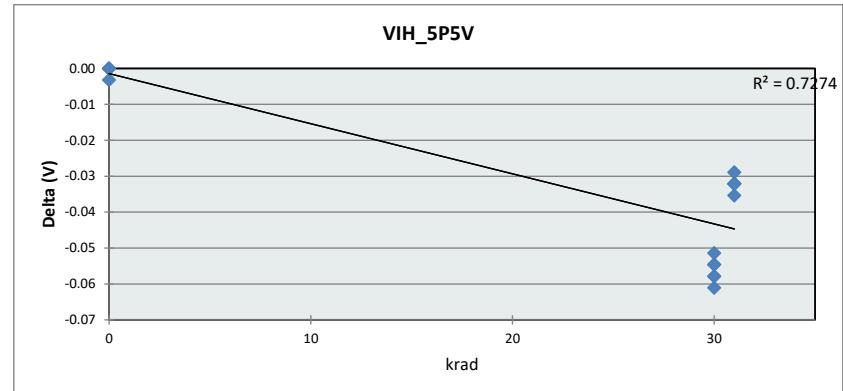
VIH_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	0	30	31			
LL	0.850	0.850	0.850			
Min	1.378	1.315	1.346			
Average	1.379	1.319	1.346			
Max	1.380	1.320	1.346			
UL	2.000	2.000	2.000			



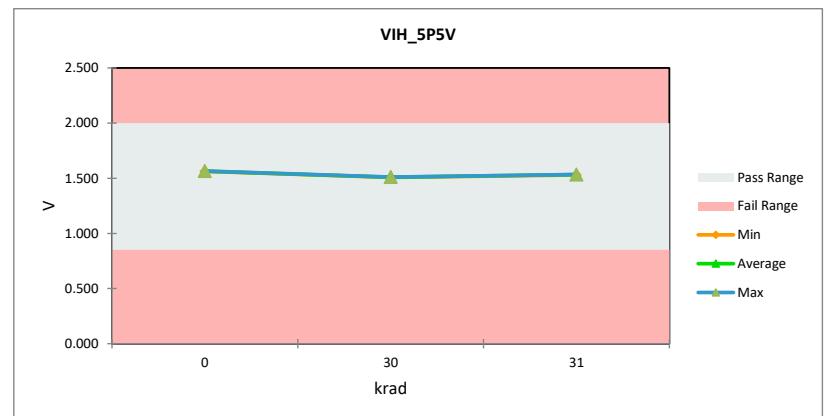
# TID Report

## SN54SC8T151-SEP

VIH_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.566	1.562	0.00	-0.21%	0.28%
0	2	1.566	1.566	0.00	0.00%	0.00%
0	3	1.562	1.562	0.00	0.00%	0.00%
0	4	1.566	1.566	0.00	0.00%	0.00%
30	5	1.566	1.511	-0.05	-3.49%	4.75%
30	6	1.569	1.508	-0.06	-3.89%	5.31%
30	7	1.566	1.508	-0.06	-3.70%	5.03%
30	8	1.559	1.508	-0.05	-3.30%	4.47%
30	9	1.566	1.508	-0.06	-3.70%	5.03%
30	10	1.566	1.511	-0.05	-3.49%	4.75%
31	5a	1.566	1.533	-0.03	-2.05%	2.79%
31	6a	1.569	1.533	-0.04	-2.25%	3.07%
31	7a	1.566	1.533	-0.03	-2.05%	2.79%
31	8a	1.559	1.530	-0.03	-1.86%	2.52%
31	9a	1.566	1.533	-0.03	-2.05%	2.79%
31	10a	1.566	1.533	-0.03	-2.05%	2.79%
Max		1.569	1.566	0.00	0.00%	5.31%
Average		1.565	1.532	-0.03	-2.13%	2.90%
Min		1.559	1.508	-0.05	-3.89%	0.00%
Std Dev		0.003	0.022	0.02	1.43%	1.94%



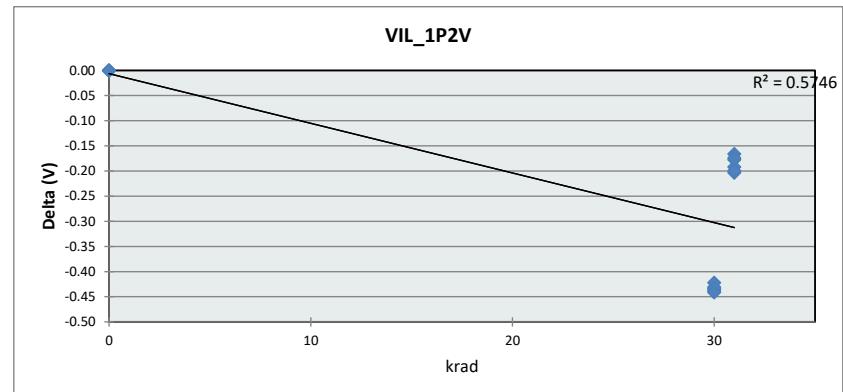
VIH_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	0	30	31			
LL	0.850	0.850	0.850			
Min	1.562	1.508	1.530			
Average	1.564	1.509	1.533			
Max	1.566	1.511	1.533			
UL	2.000	2.000	2.000			



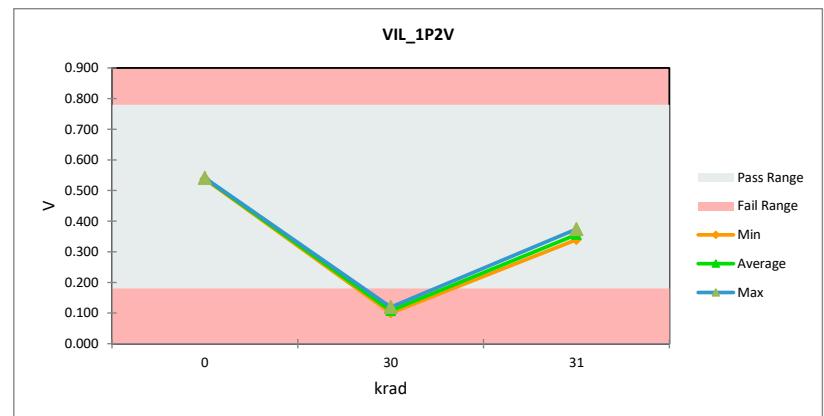
# TID Report

## SN54SC8T151-SEP

VIL_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.541	0.541	0.00	0.00%	0.00%
0	2	0.538	0.538	0.00	0.00%	0.00%
0	3	0.539	0.539	0.00	0.00%	0.00%
0	4	0.541	0.541	0.00	0.00%	0.00%
30	5	0.542	0.111	-0.43	-79.47%	71.83%
30	6	0.543	0.107	-0.44	-80.23%	72.60%
30	7	0.541	0.102	-0.44	-81.14%	73.16%
30	8	0.542	0.119	-0.42	-77.97%	70.38%
30	9	0.540	0.107	-0.43	-80.26%	72.27%
30	10	0.542	0.100	-0.44	-81.54%	73.60%
31	5a	0.542	0.350	-0.19	-35.43%	32.02%
31	6a	0.543	0.339	-0.20	-37.47%	33.91%
31	7a	0.541	0.341	-0.20	-36.87%	33.24%
31	8a	0.542	0.364	-0.18	-32.76%	29.58%
31	9a	0.540	0.374	-0.17	-30.74%	27.69%
31	10a	0.542	0.368	-0.17	-32.15%	29.02%
Max		0.543	0.541	0.00	0.00%	73.60%
Average		0.541	0.309	-0.23	-42.88%	38.71%
Min		0.538	0.100	-0.44	-81.54%	0.00%
Std Dev		0.001	0.177	0.18	32.82%	29.63%



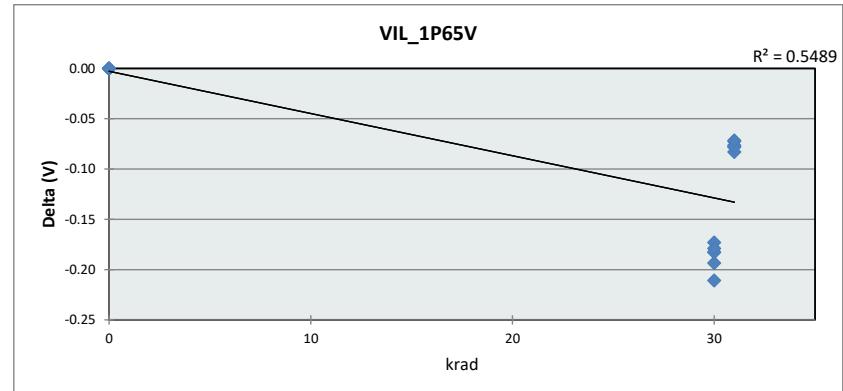
VIL_1P2V						
Units	V					
Max Limit	0.78					
Min Limit	0.18					
krad	0	30	31	LL	Min	Average
LL	0.180	0.180	0.180	0.180	0.180	0.180
Min	0.538	0.100	0.339	0.538	0.100	0.339
Average	0.540	0.108	0.356	0.540	0.108	0.356
Max	0.541	0.119	0.374	0.541	0.119	0.374
UL	0.780	0.780	0.780	0.780	0.780	0.780



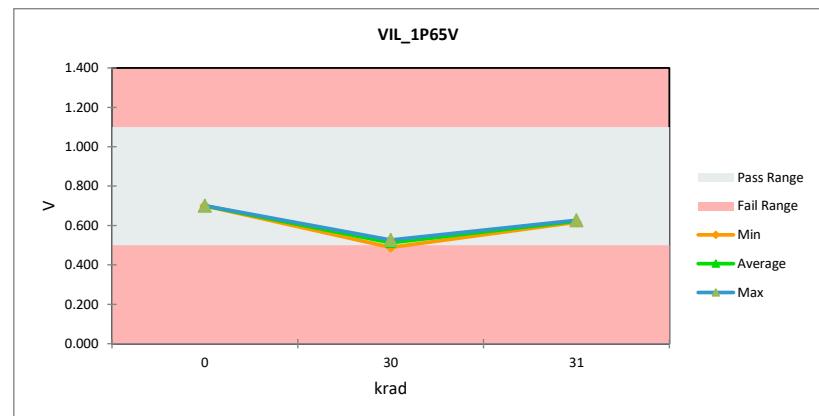
# TID Report

## SN54SC8T151-SEP

VIL_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.700	0.700	0.00	0.00%	0.00%
0	2	0.701	0.701	0.00	0.00%	0.00%
0	3	0.700	0.700	0.00	0.00%	0.00%
0	4	0.700	0.700	0.00	0.00%	0.00%
30	5	0.700	0.517	-0.18	-26.13%	30.47%
30	6	0.700	0.489	-0.21	-30.14%	35.15%
30	7	0.700	0.506	-0.19	-27.65%	32.24%
30	8	0.699	0.516	-0.18	-26.16%	30.47%
30	9	0.700	0.527	-0.17	-24.74%	28.86%
30	10	0.698	0.519	-0.18	-25.65%	29.83%
31	5a	0.700	0.621	-0.08	-11.20%	13.06%
31	6a	0.700	0.617	-0.08	-11.89%	13.86%
31	7a	0.700	0.623	-0.08	-10.92%	12.74%
31	8a	0.699	0.621	-0.08	-11.07%	12.90%
31	9a	0.700	0.627	-0.07	-10.37%	12.09%
31	10a	0.698	0.626	-0.07	-10.26%	11.93%
Max		0.701	0.701	0.00	0.00%	35.15%
Average		0.699	0.601	-0.10	-14.14%	16.47%
Min		0.698	0.489	-0.21	-30.14%	0.00%
Std Dev		0.001	0.078	0.08	11.06%	12.89%



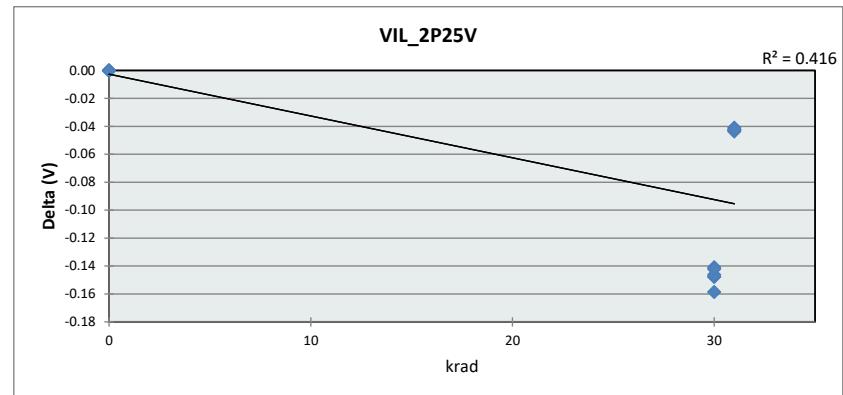
VIL_1P65V						
Units		V				
Max Limit		1.1				
Min Limit		0.5				
krad	0	30	31			
LL	0.500	0.500	0.500			
Min	0.700	0.489	0.617			
Average	0.700	0.512	0.623			
Max	0.701	0.527	0.627			
UL	1.100	1.100	1.100			



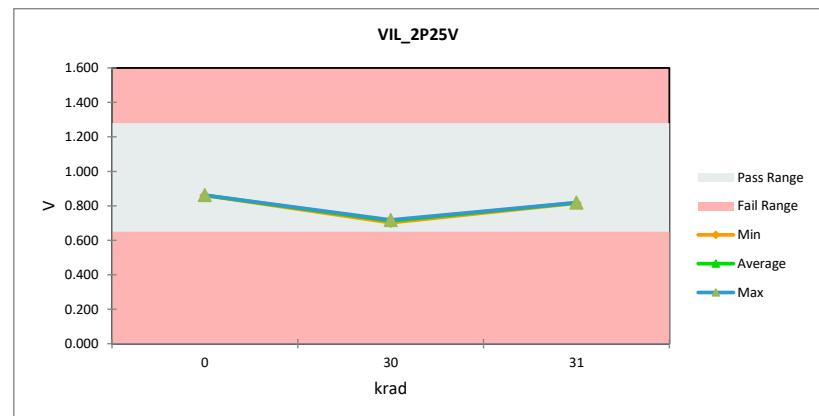
# TID Report

## SN54SC8T151-SEP

VIL_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.860	0.860	0.00	0.00%	0.00%
0	2	0.862	0.862	0.00	0.00%	0.00%
0	3	0.860	0.860	0.00	0.00%	0.00%
0	4	0.862	0.862	0.00	0.00%	0.00%
30	5	0.862	0.714	-0.15	-17.14%	23.44%
30	6	0.859	0.711	-0.15	-17.19%	23.44%
30	7	0.860	0.702	-0.16	-18.44%	25.18%
30	8	0.859	0.713	-0.15	-17.03%	23.23%
30	9	0.859	0.718	-0.14	-16.40%	22.36%
30	10	0.859	0.717	-0.14	-16.56%	22.58%
31	5a	0.862	0.819	-0.04	-4.92%	6.73%
31	6a	0.859	0.818	-0.04	-4.78%	6.51%
31	7a	0.860	0.818	-0.04	-4.93%	6.73%
31	8a	0.859	0.817	-0.04	-4.94%	6.73%
31	9a	0.859	0.815	-0.04	-5.09%	6.95%
31	10a	0.859	0.817	-0.04	-4.94%	6.73%
Max		0.862	0.862	0.00	0.00%	25.18%
Average		0.860	0.789	-0.07	-8.27%	11.29%
Min		0.859	0.702	-0.16	-18.44%	0.00%
Std Dev		0.001	0.064	0.06	7.37%	10.05%



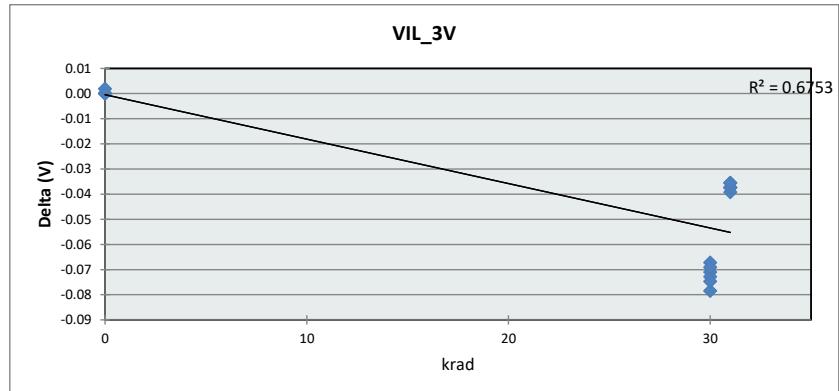
VIL_2P25V						
Units	V					
Max Limit	1.28					
Min Limit	0.65					
krad	0	30	31			
LL	0.650	0.650	0.650			
Min	0.860	0.702	0.815			
Average	0.861	0.712	0.817			
Max	0.862	0.718	0.819			
UL	1.280	1.280	1.280			



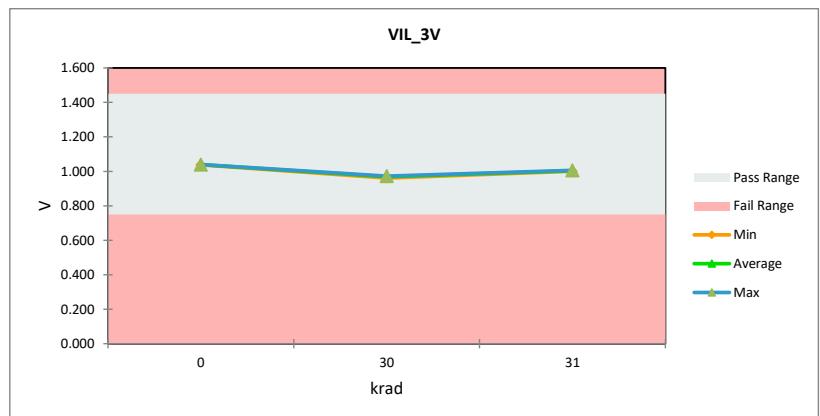
# TID Report

## SN54SC8T151-SEP

VIL_3V						
Units		V				
Max Limit		1.45				
Min Limit		0.75				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.040	1.040	0.00	0.00%	0.00%
0	2	1.040	1.040	0.00	0.00%	0.00%
0	3	1.038	1.038	0.00	0.00%	0.00%
0	4	1.038	1.040	0.00	0.18%	0.27%
30	5	1.041	0.970	-0.07	-6.82%	10.14%
30	6	1.041	0.969	-0.07	-7.00%	10.41%
30	7	1.040	0.961	-0.08	-7.55%	11.21%
30	8	1.043	0.969	-0.07	-7.16%	10.67%
30	9	1.040	0.972	-0.07	-6.47%	9.61%
30	10	1.040	0.970	-0.07	-6.65%	9.87%
31	5a	1.041	1.004	-0.04	-3.59%	5.34%
31	6a	1.041	1.004	-0.04	-3.59%	5.34%
31	7a	1.040	1.000	-0.04	-3.77%	5.60%
31	8a	1.043	1.006	-0.04	-3.58%	5.34%
31	9a	1.040	1.004	-0.04	-3.41%	5.07%
31	10a	1.040	1.004	-0.04	-3.41%	5.07%
Max		1.043	1.040	0.00	0.18%	11.21%
Average		1.040	0.999	-0.04	-3.93%	5.87%
Min		1.038	0.961	-0.08	-7.55%	0.00%
Std Dev		0.002	0.029	0.03	2.82%	4.14%



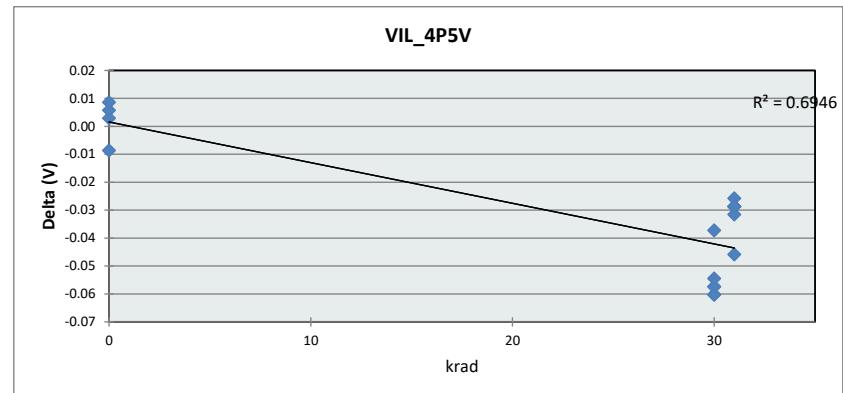
VIL_3V						
Units		V				
Max Limit		1.45				
Min Limit		0.75				
krad		0	30	31		
LL		0.750	0.750	0.750		
Min		1.038	0.961	1.000		
Average		1.039	0.969	1.004		
Max		1.040	0.972	1.006		
UL		1.450	1.450	1.450		



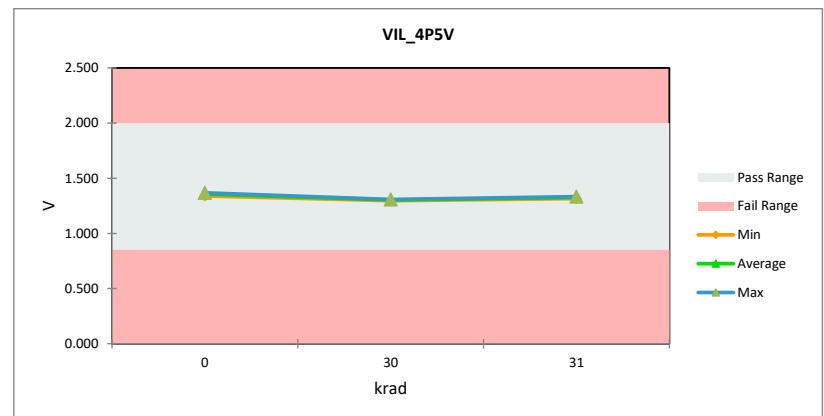
# TID Report

## SN54SC8T151-SEP

VIL_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.356	1.359	0.00	0.21%	0.25%
0	2	1.348	1.339	-0.01	-0.64%	0.75%
0	3	1.356	1.362	0.01	0.42%	0.50%
0	4	1.359	1.368	0.01	0.63%	0.75%
30	5	1.362	1.302	-0.06	-4.42%	5.24%
30	6	1.359	1.302	-0.06	-4.22%	4.99%
30	7	1.342	1.305	-0.04	-2.78%	3.24%
30	8	1.362	1.305	-0.06	-4.21%	4.99%
30	9	1.362	1.308	-0.05	-4.00%	4.74%
30	10	1.356	1.296	-0.06	-4.44%	5.24%
31	5a	1.362	1.333	-0.03	-2.11%	2.49%
31	6a	1.359	1.331	-0.03	-2.11%	2.49%
31	7a	1.342	1.316	-0.03	-1.92%	2.24%
31	8a	1.362	1.331	-0.03	-2.32%	2.74%
31	9a	1.362	1.316	-0.05	-3.37%	3.99%
31	10a	1.356	1.328	-0.03	-2.11%	2.49%
Max		1.362	1.368	0.01	0.63%	5.24%
Average		1.357	1.325	-0.03	-2.34%	2.95%
Min		1.342	1.296	-0.05	-4.44%	0.25%
Std Dev		0.007	0.023	0.02	1.75%	1.78%



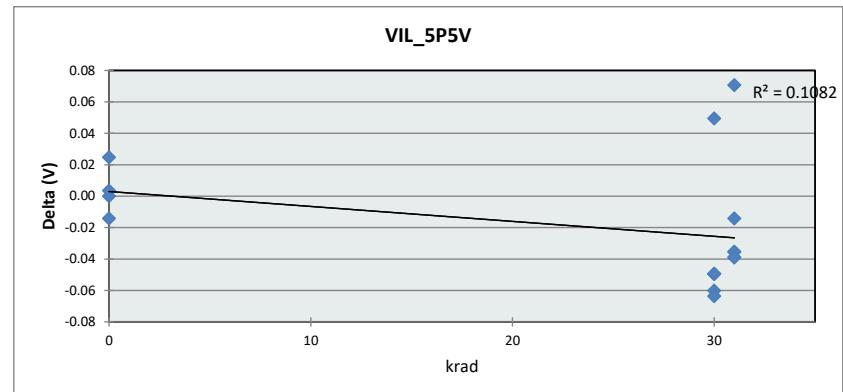
VIL_4P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad		0	30	31		
LL		0.850	0.850	0.850		
Min		1.339	1.296	1.316		
Average		1.357	1.303	1.326		
Max		1.368	1.308	1.333		
UL		2.000	2.000	2.000		



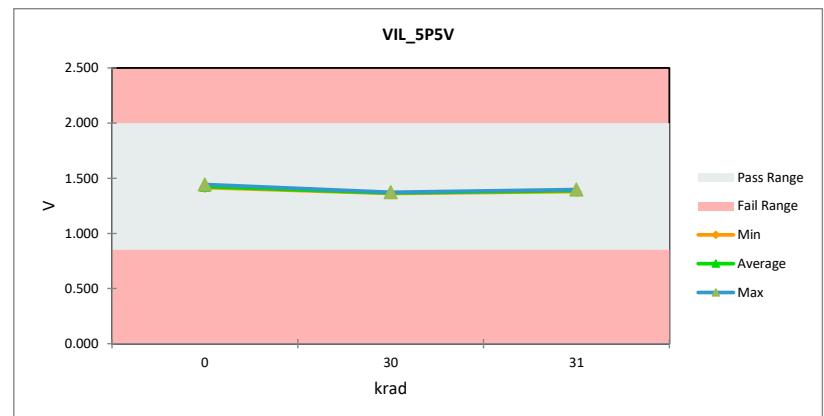
# TID Report

## SN54SC8T151-SEP

VIL_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.433	1.419	-0.01	-0.99%	1.23%
0	2	1.419	1.419	0.00	0.00%	0.00%
0	3	1.412	1.415	0.00	0.25%	0.31%
0	4	1.419	1.444	0.02	1.74%	2.15%
30	5	1.426	1.366	-0.06	-4.22%	5.23%
30	6	1.426	1.362	-0.06	-4.46%	5.53%
30	7	1.412	1.362	-0.05	-3.51%	4.30%
30	8	1.415	1.366	-0.05	-3.50%	4.30%
30	9	1.323	1.373	0.05	3.74%	4.30%
30	10	1.419	1.369	-0.05	-3.49%	4.30%
31	5a	1.426	1.391	-0.04	-2.48%	3.07%
31	6a	1.426	1.387	-0.04	-2.73%	3.38%
31	7a	1.412	1.398	-0.01	-1.00%	1.23%
31	8a	1.415	1.380	-0.04	-2.50%	3.07%
31	9a	1.323	1.394	0.07	5.34%	6.15%
31	10a	1.419	1.380	-0.04	-2.74%	3.38%
Max		1.433	1.444	0.01	5.34%	6.15%
Average		1.408	1.389	-0.02	-1.28%	3.25%
Min		1.323	1.362	0.04	-4.46%	0.00%
Std Dev		0.034	0.024	-0.01	2.86%	1.84%



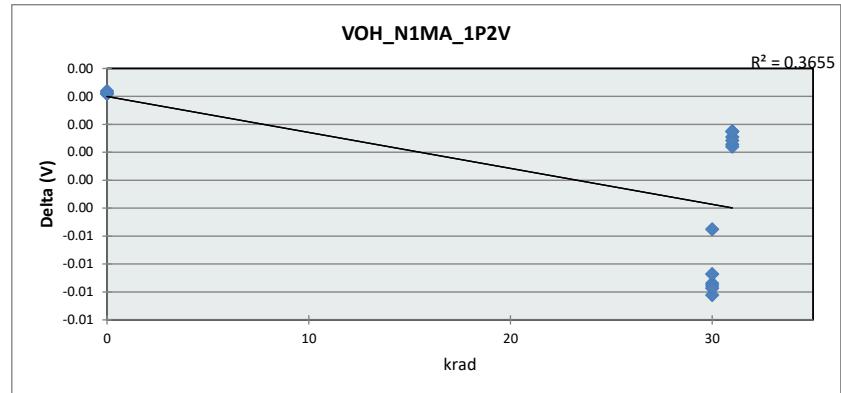
VIL_5P5V						
Units		V				
Max Limit		2				
Min Limit		0.85				
krad	0	30	31			
LL	0.850	0.850	0.850			
Min	1.415	1.362	1.380			
Average	1.424	1.366	1.388			
Max	1.444	1.373	1.398			
UL	2.000	2.000	2.000			



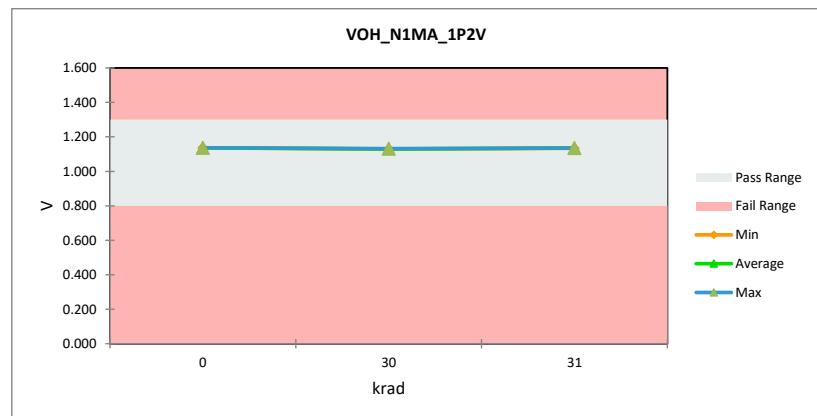
# TID Report

## SN54SC8T151-SEP

VOH_N1MA_1P2V						
Units	V					
Max Limit	1.3					
Min Limit	0.8					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.137	1.137	0.00	0.01%	0.02%
0	2	1.136	1.136	0.00	0.01%	0.02%
0	3	1.136	1.136	0.00	0.02%	0.04%
0	4	1.136	1.136	0.00	0.01%	0.02%
30	5	1.136	1.129	-0.01	-0.59%	1.34%
30	6	1.136	1.129	-0.01	-0.63%	1.42%
30	7	1.136	1.130	-0.01	-0.60%	1.35%
30	8	1.137	1.130	-0.01	-0.60%	1.37%
30	9	1.136	1.132	0.00	-0.42%	0.95%
30	10	1.136	1.130	-0.01	-0.56%	1.27%
31	5a	1.136	1.134	0.00	-0.15%	0.34%
31	6a	1.136	1.135	0.00	-0.13%	0.29%
31	7a	1.136	1.135	0.00	-0.16%	0.36%
31	8a	1.137	1.135	0.00	-0.14%	0.32%
31	9a	1.136	1.135	0.00	-0.11%	0.25%
31	10a	1.136	1.135	0.00	-0.11%	0.25%
Max		1.137	1.137	0.00	0.02%	1.42%
Average		1.136	1.133	0.00	-0.26%	0.60%
Min		1.136	1.129	-0.01	-0.63%	0.02%
Std Dev		0.000	0.003	0.00	0.26%	0.57%



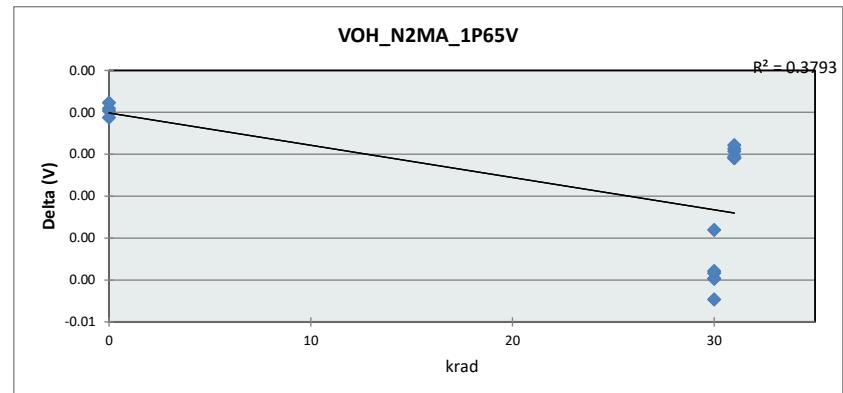
VOH_N1MA_1P2V						
Units	V					
Max Limit	1.3					
Min Limit	0.8					
krad	0	30	31			
LL	0.800	0.800	0.800			
Min	1.136	1.129	1.134			
Average	1.136	1.130	1.135			
Max	1.137	1.132	1.135			
UL	1.300	1.300	1.300			



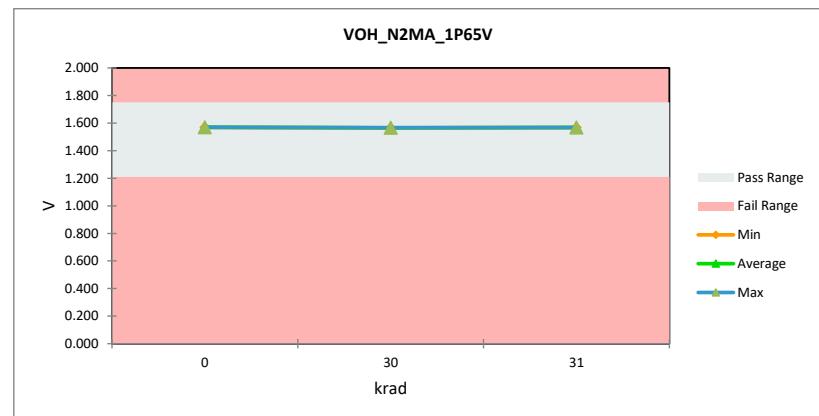
# TID Report

## SN54SC8T151-SEP

VOH_N2MA_1P65V						
Units	V					
Max Limit	1.75					
Min Limit	1.21					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.570	1.570	0.00	0.00%	0.01%
0	2	1.569	1.570	0.00	0.01%	0.02%
0	3	1.569	1.570	0.00	0.01%	0.04%
0	4	1.569	1.569	0.00	-0.01%	0.02%
30	5	1.569	1.565	0.00	-0.25%	0.74%
30	6	1.569	1.565	0.00	-0.28%	0.83%
30	7	1.569	1.565	0.00	-0.24%	0.71%
30	8	1.570	1.566	0.00	-0.25%	0.73%
30	9	1.570	1.567	0.00	-0.18%	0.52%
30	10	1.570	1.566	0.00	-0.24%	0.70%
31	5a	1.569	1.568	0.00	-0.07%	0.20%
31	6a	1.569	1.568	0.00	-0.07%	0.20%
31	7a	1.569	1.568	0.00	-0.07%	0.20%
31	8a	1.570	1.569	0.00	-0.06%	0.17%
31	9a	1.570	1.569	0.00	-0.06%	0.16%
31	10a	1.570	1.569	0.00	-0.05%	0.14%
Max		1.570	1.570	0.00	0.01%	0.83%
Average		1.569	1.568	0.00	-0.11%	0.34%
Min		1.569	1.565	0.00	-0.28%	0.01%
Std Dev		0.000	0.002	0.00	0.11%	0.31%



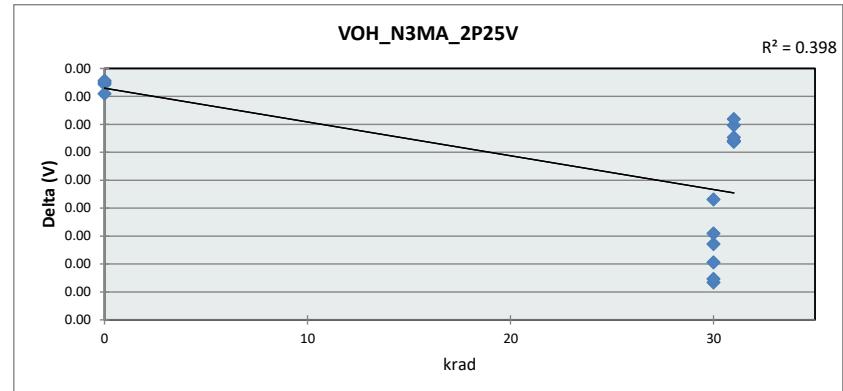
VOH_N2MA_1P65V						
Units	V					
Max Limit	1.75					
Min Limit	1.21					
krad	0	30	31	LL	Min	Max
LL	1.210	1.210	1.210	1.210	1.569	1.568
Min	1.569	1.565	1.569	1.569	1.565	1.568
Average	1.570	1.566	1.569	1.570	1.566	1.569
Max	1.570	1.567	1.569	1.570	1.567	1.569
UL	1.750	1.750	1.750	1.750	1.750	1.750



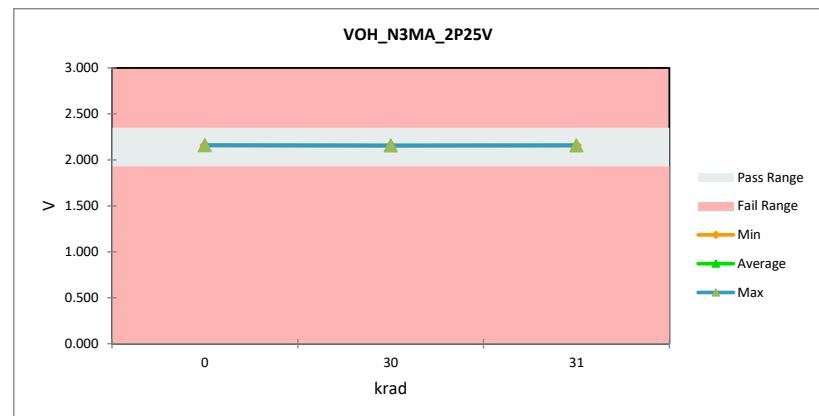
# TID Report

## SN54SC8T151-SEP

VOH_N3MA_2P25V						
Units	V					
Max Limit	2.35					
Min Limit	1.93					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.158	2.159	0.00	0.01%	0.06%
0	2	2.158	2.158	0.00	0.01%	0.05%
0	3	2.158	2.158	0.00	0.00%	0.01%
0	4	2.158	2.158	0.00	0.01%	0.07%
30	5	2.158	2.155	0.00	-0.14%	0.71%
30	6	2.158	2.155	0.00	-0.15%	0.79%
30	7	2.158	2.155	0.00	-0.12%	0.63%
30	8	2.158	2.155	0.00	-0.15%	0.78%
30	9	2.158	2.156	0.00	-0.09%	0.44%
30	10	2.158	2.156	0.00	-0.11%	0.58%
31	5a	2.158	2.157	0.00	-0.04%	0.19%
31	6a	2.158	2.157	0.00	-0.04%	0.19%
31	7a	2.158	2.157	0.00	-0.04%	0.19%
31	8a	2.158	2.158	0.00	-0.03%	0.17%
31	9a	2.158	2.158	0.00	-0.02%	0.12%
31	10a	2.158	2.158	0.00	-0.02%	0.10%
Max		2.158	2.159	0.00	0.01%	0.79%
Average		2.158	2.157	0.00	-0.06%	0.32%
Min		2.158	2.155	0.00	-0.15%	0.01%
Std Dev		0.000	0.001	0.00	0.06%	0.29%



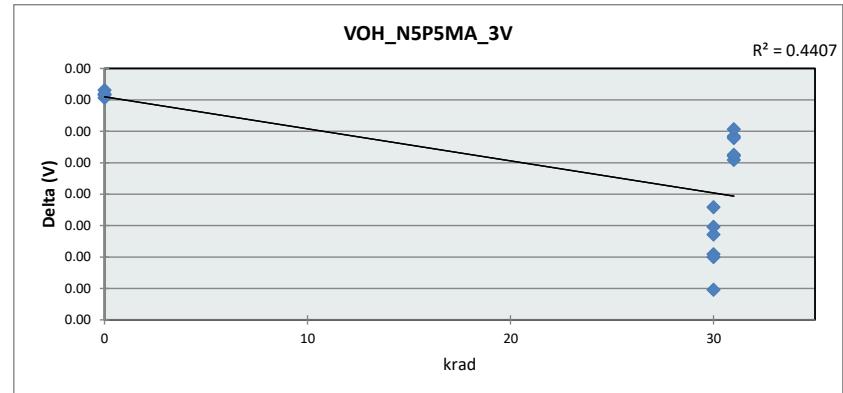
VOH_N3MA_2P25V						
Units	V					
Max Limit	2.35					
Min Limit	1.93					
krad	0	30	31			
LL	1.930	1.930	1.930			
Min	2.158	2.155	2.157			
Average	2.158	2.155	2.157			
Max	2.159	2.156	2.158			
UL	2.350	2.350	2.350			



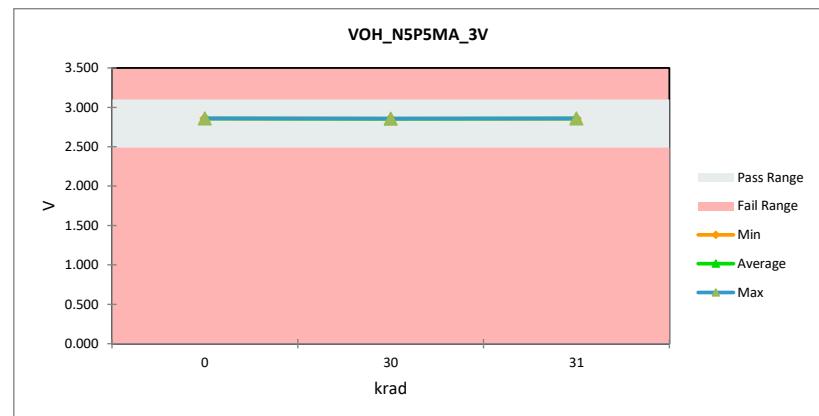
# TID Report

## SN54SC8T151-SEP

VOH_N5P5MA_3V						
Units		V				
Max Limit		3.1				
Min Limit		2.49				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	2.859	2.859	0.00	0.00%	0.01%
0	2	2.858	2.858	0.00	0.01%	0.03%
0	3	2.858	2.858	0.00	0.00%	0.01%
0	4	2.858	2.858	0.00	0.00%	0.02%
30	5	2.858	2.856	0.00	-0.08%	0.35%
30	6	2.858	2.855	0.00	-0.11%	0.50%
30	7	2.858	2.856	0.00	-0.09%	0.40%
30	8	2.859	2.856	0.00	-0.09%	0.41%
30	9	2.859	2.857	0.00	-0.06%	0.28%
30	10	2.858	2.856	0.00	-0.07%	0.33%
31	5a	2.858	2.857	0.00	-0.02%	0.10%
31	6a	2.858	2.857	0.00	-0.03%	0.15%
31	7a	2.858	2.857	0.00	-0.03%	0.16%
31	8a	2.859	2.858	0.00	-0.02%	0.10%
31	9a	2.859	2.858	0.00	-0.03%	0.14%
31	10a	2.858	2.858	0.00	-0.02%	0.08%
Max		2.859	2.859	0.00	0.01%	0.50%
Average		2.858	2.857	0.00	-0.04%	0.19%
Min		2.858	2.855	0.00	-0.11%	0.01%
Std Dev		0.000	0.001	0.00	0.04%	0.16%



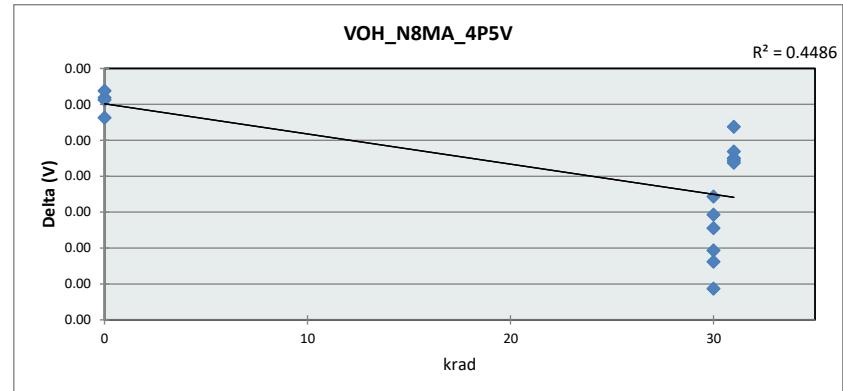
VOH_N5P5MA_3V						
Units		V				
Max Limit		3.1				
Min Limit		2.49				
krad	0	30	31			
LL	2.490	2.490	2.490			
Min	2.858	2.855	2.857			
Average	2.859	2.856	2.858			
Max	2.859	2.857	2.858			
UL	3.100	3.100	3.100			



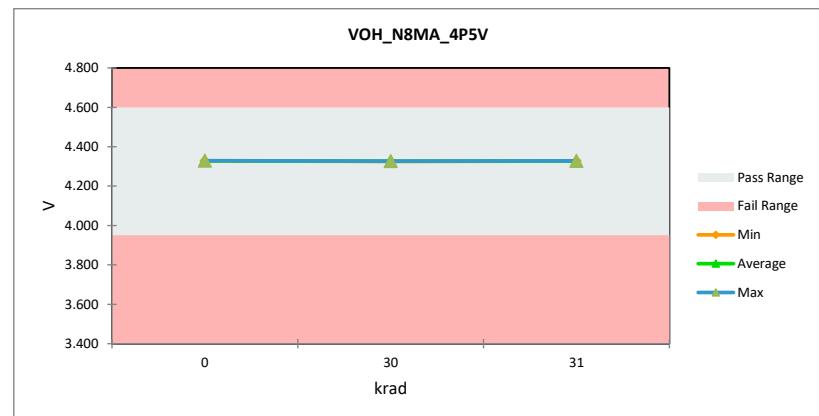
# TID Report

## SN54SC8T151-SEP

VOH_N8MA_4P5V						
Units		V				
Max Limit		4.6				
Min Limit		3.95				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	4.329	4.329	0.00	0.00%	0.03%
0	2	4.328	4.328	0.00	0.00%	0.01%
0	3	4.328	4.328	0.00	0.00%	0.01%
0	4	4.328	4.328	0.00	0.00%	0.03%
30	5	4.328	4.326	0.00	-0.05%	0.31%
30	6	4.328	4.326	0.00	-0.06%	0.39%
30	7	4.328	4.326	0.00	-0.04%	0.27%
30	8	4.329	4.327	0.00	-0.05%	0.34%
30	9	4.328	4.327	0.00	-0.04%	0.24%
30	10	4.328	4.327	0.00	-0.03%	0.20%
31	5a	4.328	4.327	0.00	-0.02%	0.12%
31	6a	4.328	4.327	0.00	-0.02%	0.12%
31	7a	4.328	4.327	0.00	-0.02%	0.10%
31	8a	4.329	4.328	0.00	-0.02%	0.12%
31	9a	4.328	4.328	0.00	-0.02%	0.13%
31	10a	4.328	4.328	0.00	-0.01%	0.05%
Max		4.329	4.329	0.00	0.00%	0.39%
Average		4.328	4.327	0.00	-0.02%	0.15%
Min		4.328	4.326	0.00	-0.06%	0.01%
Std Dev		0.000	0.001	0.00	0.02%	0.12%



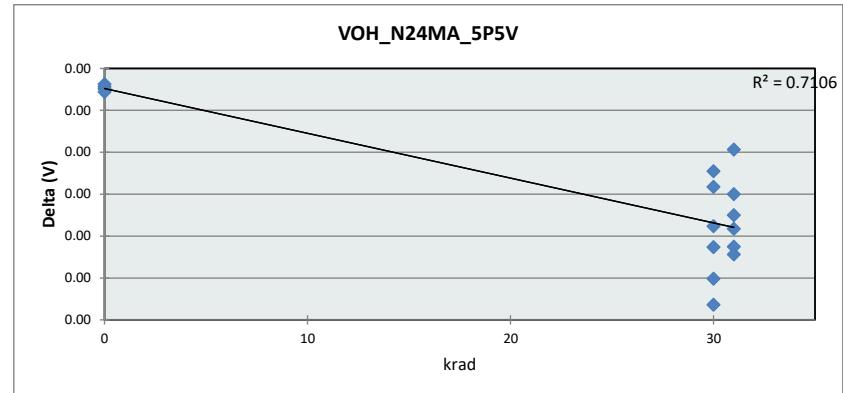
VOH_N8MA_4P5V						
Units		V				
Max Limit		4.6				
Min Limit		3.95				
krad		0	30	31		
LL		3.950	3.950	3.950		
Min		4.328	4.326	4.327		
Average		4.328	4.326	4.327		
Max		4.329	4.327	4.328		
UL		4.600	4.600	4.600		



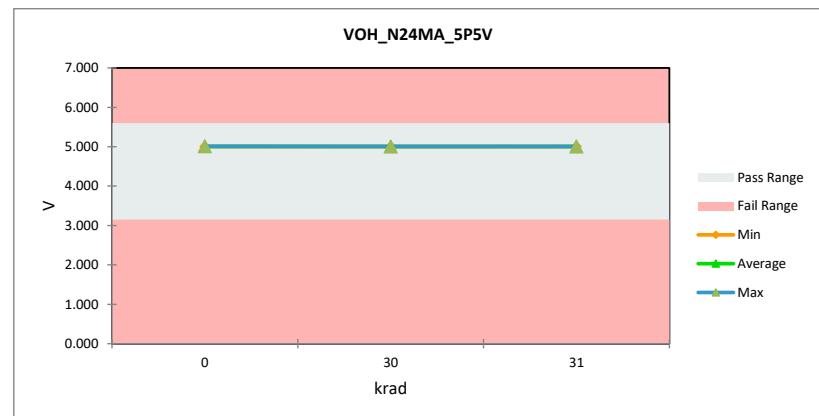
# TID Report

## SN54SC8T151-SEP

VOH_N24MA_5P5V						
Units		V				
Max Limit		5.6				
Min Limit		3.15				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	5.010	5.010	0.00	0.01%	0.01%
0	2	5.007	5.007	0.00	0.01%	0.01%
0	3	5.007	5.008	0.00	0.01%	0.01%
0	4	5.006	5.006	0.00	0.00%	0.01%
30	5	5.006	5.004	0.00	-0.03%	0.07%
30	6	5.007	5.005	0.00	-0.05%	0.09%
30	7	5.006	5.005	0.00	-0.03%	0.06%
30	8	5.009	5.007	0.00	-0.04%	0.08%
30	9	5.008	5.007	0.00	-0.02%	0.04%
30	10	5.007	5.007	0.00	-0.01%	0.03%
31	5a	5.006	5.005	0.00	-0.02%	0.04%
31	6a	5.007	5.005	0.00	-0.03%	0.06%
31	7a	5.006	5.004	0.00	-0.03%	0.07%
31	8a	5.009	5.008	0.00	-0.02%	0.05%
31	9a	5.008	5.006	0.00	-0.03%	0.07%
31	10a	5.007	5.007	0.00	-0.01%	0.02%
Max		5.010	5.010	0.00	0.01%	0.09%
Average		5.007	5.006	0.00	-0.02%	0.04%
Min		5.006	5.004	0.00	-0.05%	0.01%
Std Dev		0.001	0.002	0.00	0.02%	0.03%



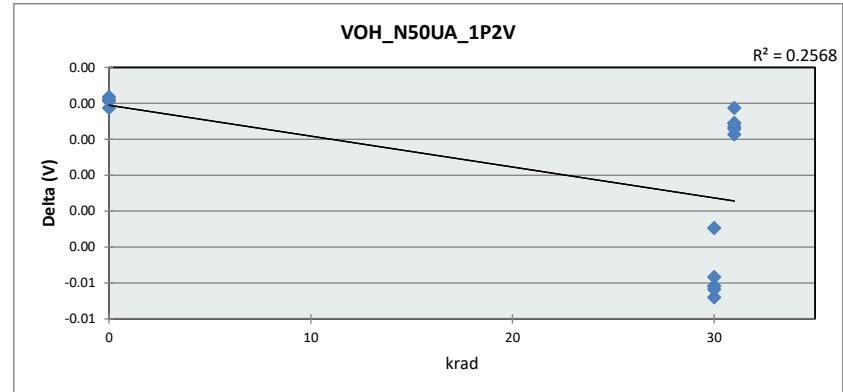
VOH_N24MA_5P5V						
Units		V				
Max Limit		5.6				
Min Limit		3.15				
krad		0	30	31		
LL		3.150	3.150	3.150		
Min		5.006	5.004	5.004		
Average		5.008	5.006	5.006		
Max		5.010	5.007	5.008		
UL		5.600	5.600	5.600		



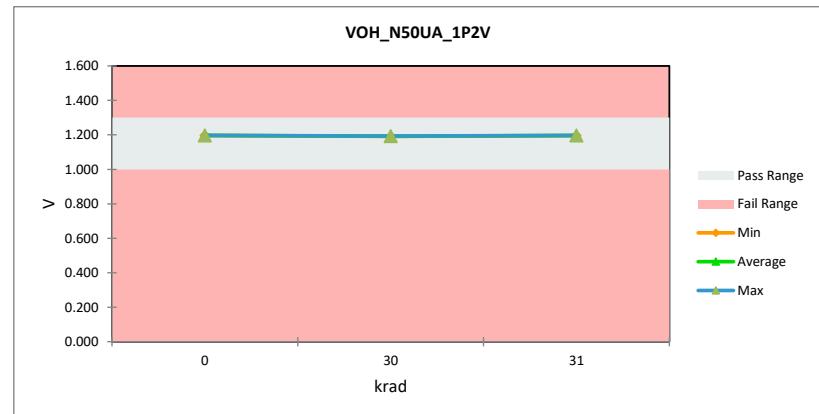
# TID Report

## SN54SC8T151-SEP

VOH_N50UA_1P2V						
Units	V					
Max Limit	1.3					
Min Limit	1					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	1.197	1.197	0.00	0.01%	0.06%
0	2	1.197	1.197	0.00	-0.01%	0.04%
0	3	1.197	1.197	0.00	0.01%	0.03%
0	4	1.197	1.197	0.00	0.01%	0.02%
30	5	1.197	1.192	-0.01	-0.43%	1.70%
30	6	1.197	1.191	-0.01	-0.45%	1.80%
30	7	1.197	1.192	-0.01	-0.43%	1.70%
30	8	1.197	1.192	-0.01	-0.43%	1.73%
30	9	1.197	1.193	0.00	-0.29%	1.16%
30	10	1.197	1.192	0.00	-0.40%	1.61%
31	5a	1.197	1.196	0.00	-0.05%	0.22%
31	6a	1.197	1.196	0.00	-0.07%	0.29%
31	7a	1.197	1.196	0.00	-0.06%	0.24%
31	8a	1.197	1.196	0.00	-0.05%	0.18%
31	9a	1.197	1.197	0.00	-0.01%	0.04%
31	10a	1.197	1.196	0.00	-0.05%	0.18%
Max		1.197	1.197	0.00	0.01%	1.80%
Average		1.197	1.195	0.00	-0.17%	0.69%
Min		1.197	1.191	-0.01	-0.45%	0.02%
Std Dev		0.000	0.002	0.00	0.19%	0.76%



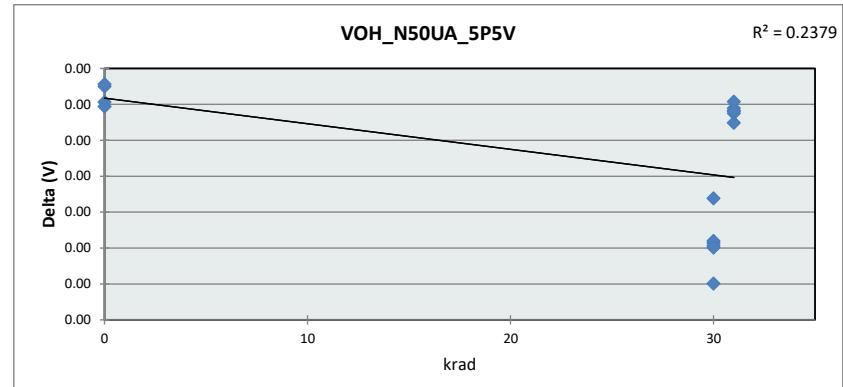
VOH_N50UA_1P2V						
Units	V					
Max Limit	1.3					
Min Limit	1					
krad	0	30	31			
LL	1.000	1.000	1.000			
Min	1.197	1.191	1.196			
Average	1.197	1.192	1.196			
Max	1.197	1.193	1.197			
UL	1.300	1.300	1.300			



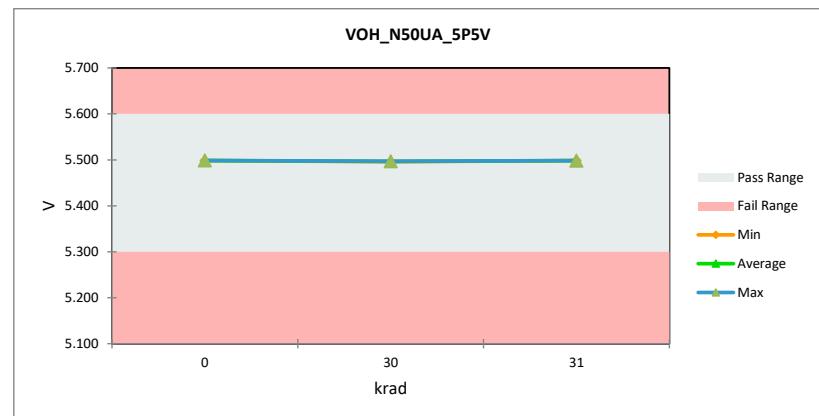
# TID Report

## SN54SC8T151-SEP

VOH_N50UA_5P5V						
Units		V				
Max Limit		5.6				
Min Limit		5.3				
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	5.498	5.498	0.00	0.00%	0.01%
0	2	5.498	5.499	0.00	0.00%	0.08%
0	3	5.499	5.499	0.00	0.00%	0.01%
0	4	5.498	5.498	0.00	0.01%	0.09%
30	5	5.499	5.497	0.00	-0.04%	0.66%
30	6	5.498	5.496	0.00	-0.05%	0.83%
30	7	5.498	5.496	0.00	-0.04%	0.64%
30	8	5.498	5.496	0.00	-0.03%	0.63%
30	9	5.498	5.497	0.00	-0.02%	0.44%
30	10	5.498	5.496	0.00	-0.04%	0.67%
31	5a	5.499	5.498	0.00	0.00%	0.09%
31	6a	5.498	5.498	0.00	0.00%	0.04%
31	7a	5.498	5.498	0.00	0.00%	0.02%
31	8a	5.498	5.498	0.00	0.00%	0.03%
31	9a	5.498	5.498	0.00	0.00%	0.01%
31	10a	5.498	5.498	0.00	0.00%	0.03%
Max		5.499	5.499	0.00	0.01%	0.83%
Average		5.498	5.498	0.00	-0.01%	0.27%
Min		5.498	5.496	0.00	-0.05%	0.01%
Std Dev		0.000	0.001	0.00	0.02%	0.31%



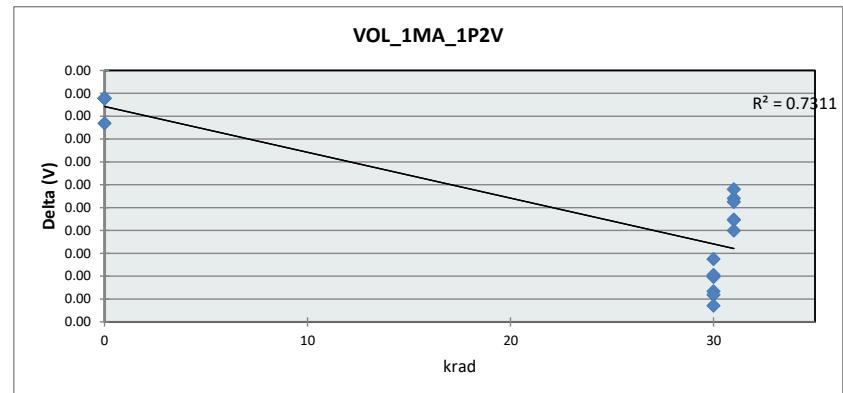
VOH_N50UA_5P5V						
Units		V				
Max Limit		5.6				
Min Limit		5.3				
krad		0	30	31		
LL		5.300	5.300	5.300		
Min		5.498	5.496	5.498		
Average		5.499	5.496	5.498		
Max		5.499	5.497	5.498		
UL		5.600	5.600	5.600		



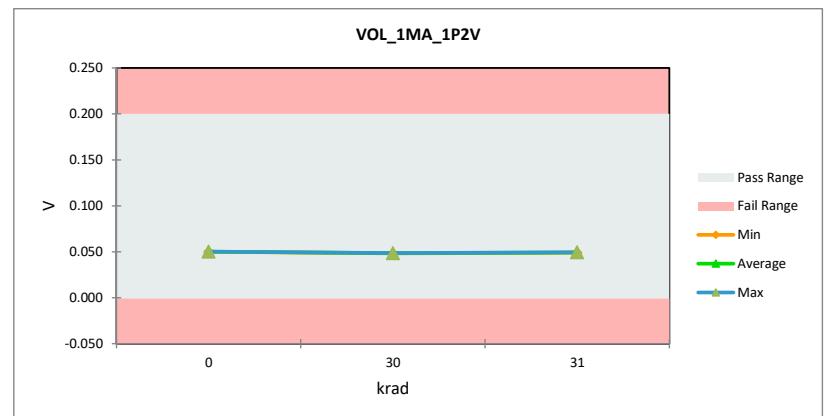
# TID Report

## SN54SC8T151-SEP

VOL_1MA_1P2V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.050	0.050	0.00	0.31%	0.08%
0	2	0.050	0.050	0.00	0.31%	0.08%
0	3	0.050	0.050	0.00	-0.12%	0.03%
0	4	0.050	0.050	0.00	0.31%	0.08%
30	5	0.050	0.049	0.00	-2.51%	0.62%
30	6	0.050	0.048	0.00	-3.08%	0.76%
30	7	0.050	0.048	0.00	-2.82%	0.70%
30	8	0.050	0.049	0.00	-3.12%	0.78%
30	9	0.050	0.049	0.00	-3.30%	0.82%
30	10	0.050	0.048	0.00	-2.79%	0.69%
31	5a	0.050	0.049	0.00	-1.44%	0.36%
31	6a	0.050	0.049	0.00	-1.82%	0.45%
31	7a	0.050	0.049	0.00	-1.51%	0.37%
31	8a	0.050	0.049	0.00	-2.00%	0.50%
31	9a	0.050	0.049	0.00	-1.80%	0.45%
31	10a	0.050	0.049	0.00	-1.28%	0.32%
Max		0.050	0.050	0.00	0.31%	0.82%
Average		0.050	0.049	0.00	-1.67%	0.44%
Min		0.050	0.048	0.00	-3.30%	0.03%
Std Dev		0.000	0.001	0.00	1.28%	0.27%



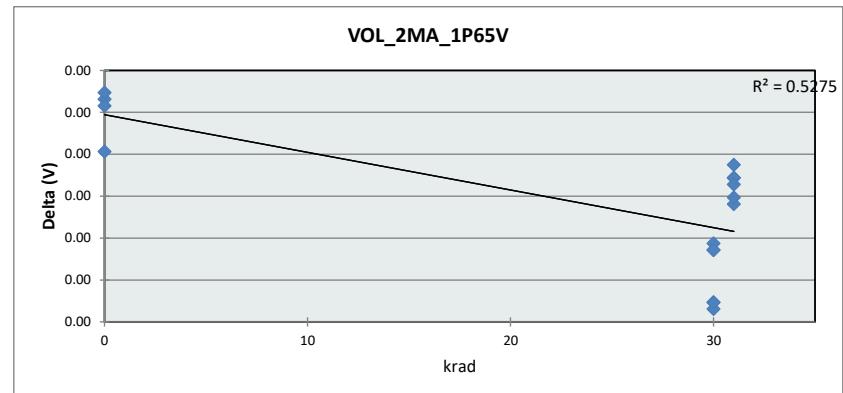
VOL_1MA_1P2V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
Max	0.050	0.049	0.049	-0.001	-0.001	-0.001
Average	0.050	0.049	0.049	0.050	0.048	0.049
Min	0.050	0.048	0.048	0.050	0.049	0.049
Average	0.050	0.049	0.049	0.050	0.049	0.049
Max	0.050	0.049	0.049	0.200	0.200	0.200
UL	0.200	0.200	0.200			



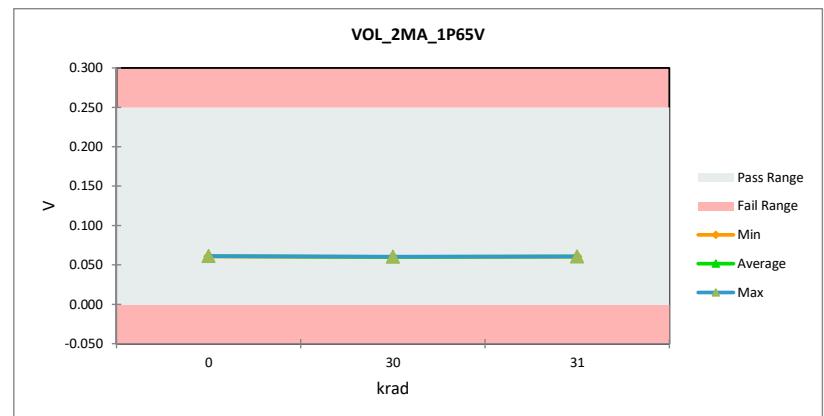
# TID Report

## SN54SC8T151-SEP

VOL_2MA_1P65V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.061	0.061	0.00	0.10%	0.02%
0	2	0.061	0.061	0.00	-0.31%	0.07%
0	3	0.061	0.061	0.00	0.15%	0.04%
0	4	0.061	0.061	0.00	0.05%	0.01%
30	5	0.061	0.060	0.00	-1.49%	0.36%
30	6	0.061	0.060	0.00	-1.54%	0.37%
30	7	0.061	0.060	0.00	-1.49%	0.36%
30	8	0.061	0.060	0.00	-1.08%	0.26%
30	9	0.061	0.060	0.00	-1.02%	0.25%
30	10	0.061	0.060	0.00	-1.08%	0.26%
31	5a	0.061	0.061	0.00	-0.41%	0.10%
31	6a	0.061	0.061	0.00	-0.51%	0.12%
31	7a	0.061	0.061	0.00	-0.51%	0.12%
31	8a	0.061	0.061	0.00	-0.56%	0.14%
31	9a	0.061	0.061	0.00	-0.72%	0.17%
31	10a	0.061	0.061	0.00	-0.67%	0.16%
Max		0.061	0.061	0.00	0.15%	0.37%
Average		0.061	0.061	0.00	-0.69%	0.18%
Min		0.061	0.060	0.00	-1.54%	0.01%
Std Dev		0.000	0.000	0.00	0.55%	0.12%



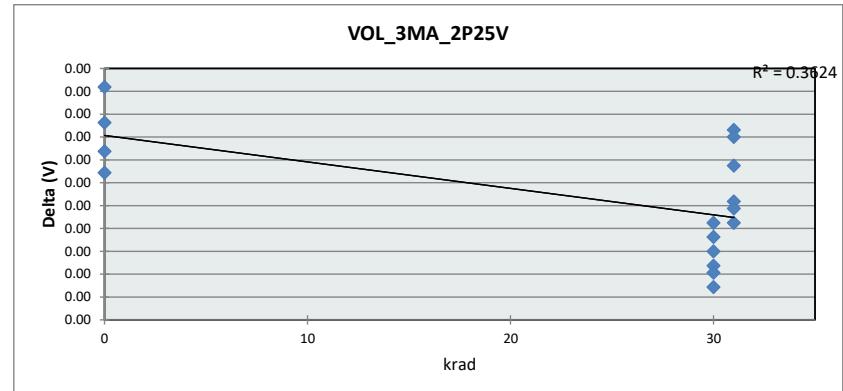
VOL_2MA_1P65V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
LL	-0.001	-0.001	-0.001	0.061	0.060	0.061
Min	0.061	0.060	0.061	0.061	0.060	0.061
Average	0.061	0.060	0.061	0.061	0.060	0.061
Max	0.061	0.060	0.061	0.250	0.250	0.250



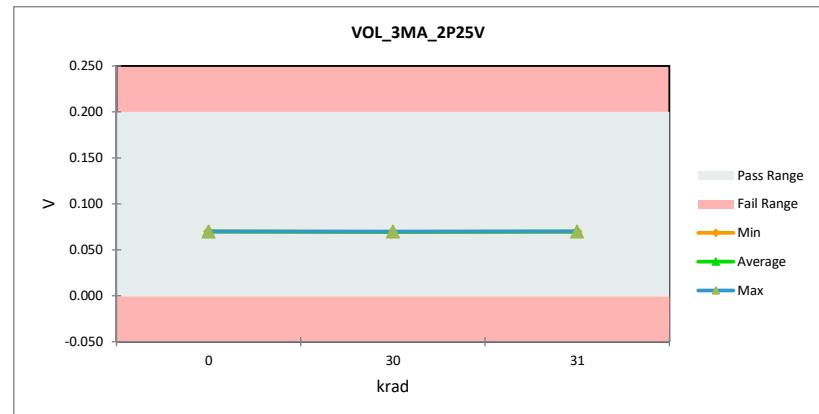
# TID Report

## SN54SC8T151-SEP

VOL_3MA_2P25V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.070	0.070	0.00	-0.22%	0.08%
0	2	0.070	0.070	0.00	0.31%	0.11%
0	3	0.070	0.070	0.00	-0.09%	0.03%
0	4	0.070	0.070	0.00	0.09%	0.03%
30	5	0.070	0.069	0.00	-0.80%	0.28%
30	6	0.070	0.069	0.00	-0.85%	0.30%
30	7	0.070	0.069	0.00	-0.63%	0.22%
30	8	0.070	0.070	0.00	-0.54%	0.19%
30	9	0.070	0.070	0.00	-0.71%	0.25%
30	10	0.070	0.069	0.00	-0.94%	0.33%
31	5a	0.070	0.070	0.00	-0.18%	0.06%
31	6a	0.070	0.070	0.00	-0.40%	0.14%
31	7a	0.070	0.070	0.00	0.04%	0.02%
31	8a	0.070	0.070	0.00	0.00%	0.00%
31	9a	0.070	0.070	0.00	-0.53%	0.19%
31	10a	0.070	0.070	0.00	-0.45%	0.16%
Max		0.070	0.070	0.00	0.31%	0.33%
Average		0.070	0.070	0.00	-0.37%	0.15%
Min		0.070	0.069	0.00	-0.94%	0.00%
Std Dev		0.000	0.000	0.00	0.38%	0.11%



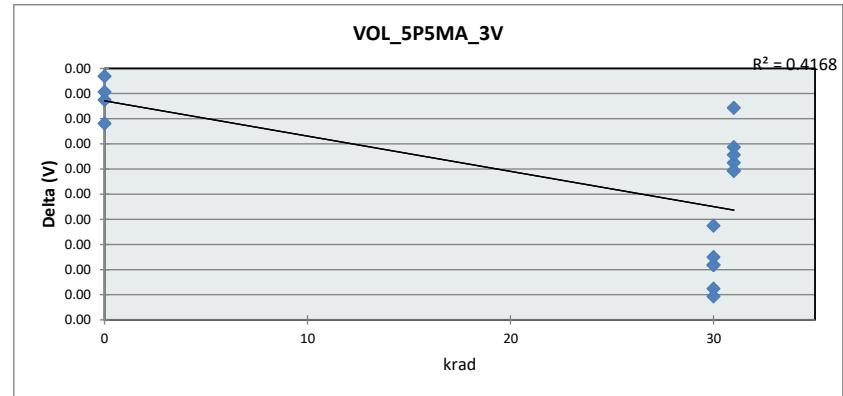
VOL_3MA_2P25V						
Units	V					
Max Limit	0.2					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
Max	0.070	0.070	0.070	-0.001	-0.001	-0.001
Average	0.070	0.070	0.070	0.069	0.069	0.070
Min	0.070	0.069	0.070	0.070	0.070	0.070
Average	0.070	0.069	0.070	0.070	0.070	0.070
Max	0.070	0.070	0.070	0.200	0.200	0.200
UL	0.200	0.200	0.200			



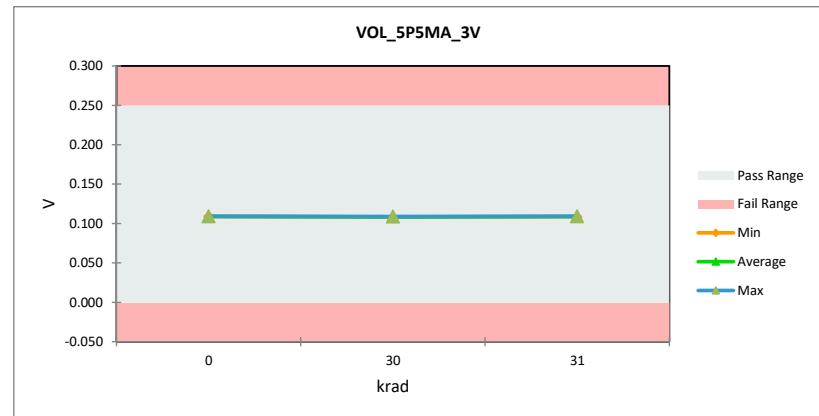
# TID Report

## SN54SC8T151-SEP

VOL_5P5MA_3V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.109	0.109	0.00	-0.11%	0.05%
0	2	0.109	0.109	0.00	-0.09%	0.04%
0	3	0.109	0.109	0.00	-0.20%	0.09%
0	4	0.109	0.109	0.00	-0.03%	0.01%
30	5	0.109	0.108	0.00	-0.57%	0.25%
30	6	0.109	0.108	0.00	-0.72%	0.31%
30	7	0.109	0.108	0.00	-0.80%	0.35%
30	8	0.109	0.108	0.00	-0.83%	0.36%
30	9	0.110	0.109	0.00	-0.71%	0.31%
30	10	0.109	0.109	0.00	-0.69%	0.30%
31	5a	0.109	0.109	0.00	-0.14%	0.06%
31	6a	0.109	0.109	0.00	-0.34%	0.15%
31	7a	0.109	0.109	0.00	-0.32%	0.14%
31	8a	0.109	0.109	0.00	-0.37%	0.16%
31	9a	0.110	0.109	0.00	-0.37%	0.16%
31	10a	0.109	0.109	0.00	-0.29%	0.12%
Max		0.110	0.109	0.00	-0.03%	0.36%
Average		0.109	0.109	0.00	-0.41%	0.18%
Min		0.109	0.108	0.00	-0.83%	0.01%
Std Dev		0.000	0.000	0.00	0.27%	0.12%



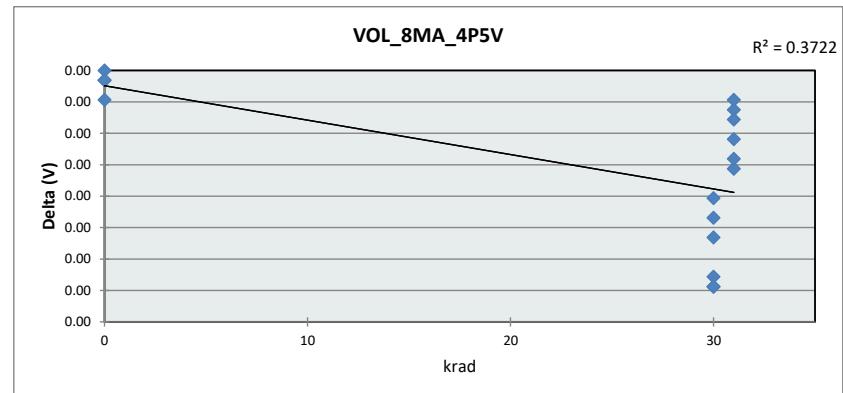
VOL_5P5MA_3V						
Units	V					
Max Limit	0.25					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
LL	-0.001	-0.001	-0.001	0.109	0.108	0.109
Min	0.109	0.108	0.109	0.109	0.108	0.109
Average	0.109	0.108	0.109	0.109	0.108	0.109
Max	0.109	0.109	0.109	0.109	0.109	0.109
UL	0.250	0.250	0.250	0.250	0.250	0.250



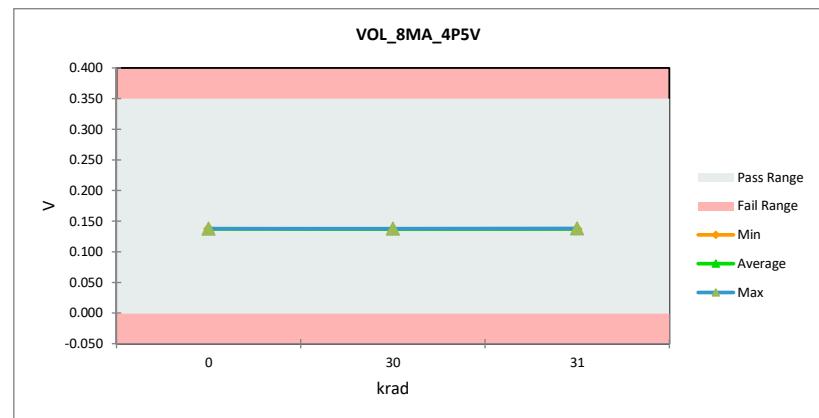
# TID Report

## SN54SC8T151-SEP

VOL_8MA_4P5V						
Units	V					
Max Limit	0.35					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.138	0.138	0.00	-0.02%	0.01%
0	2	0.138	0.138	0.00	0.00%	0.00%
0	3	0.138	0.138	0.00	-0.02%	0.01%
0	4	0.138	0.137	0.00	-0.07%	0.03%
30	5	0.138	0.137	0.00	-0.30%	0.12%
30	6	0.137	0.137	0.00	-0.50%	0.20%
30	7	0.137	0.137	0.00	-0.48%	0.19%
30	8	0.138	0.137	0.00	-0.39%	0.15%
30	9	0.138	0.138	0.00	-0.50%	0.20%
30	10	0.138	0.137	0.00	-0.34%	0.13%
31	5a	0.138	0.137	0.00	-0.16%	0.06%
31	6a	0.137	0.137	0.00	-0.23%	0.09%
31	7a	0.137	0.137	0.00	-0.09%	0.04%
31	8a	0.138	0.137	0.00	-0.11%	0.04%
31	9a	0.138	0.138	0.00	-0.20%	0.08%
31	10a	0.138	0.138	0.00	-0.07%	0.03%
		Max	0.138	0.138	0.00	0.00%
		Average	0.138	0.137	0.00	-0.22%
		Min	0.137	0.137	0.00	-0.50%
		Std Dev	0.000	0.000	0.00	0.18%
						0.07%

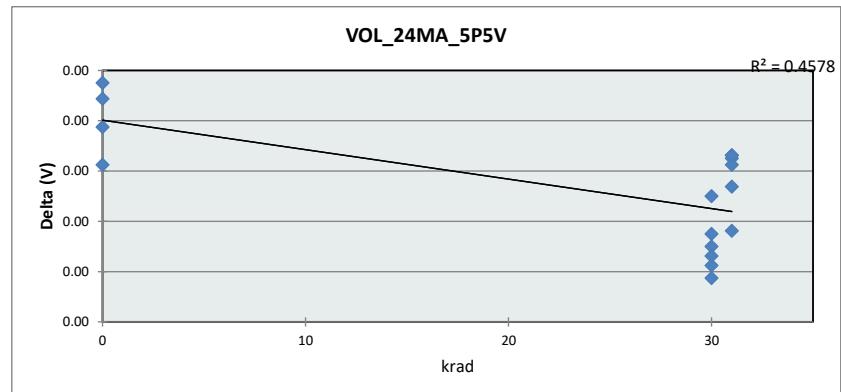


VOL_8MA_4P5V			
Units	V		
Max Limit	0.35		
Min Limit	-0.001		
krad	0	30	31
LL	-0.001	-0.001	-0.001
Min	0.137	0.137	0.137
Average	0.138	0.137	0.138
Max	0.138	0.138	0.138
UL	0.350	0.350	0.350

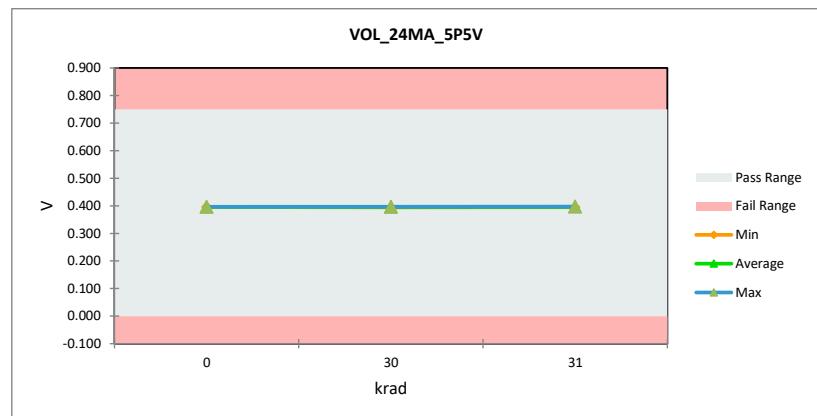


TID Report  
SN54SC8T151-SEP

VOL_24MA_5P5V						
Units	V					
Max Limit	0.75					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.396	0.397	0.00	0.09%	0.05%
0	2	0.396	0.396	0.00	-0.11%	0.06%
0	3	0.396	0.397	0.00	0.06%	0.03%
0	4	0.396	0.396	0.00	-0.02%	0.01%
30	5	0.396	0.395	0.00	-0.19%	0.10%
30	6	0.396	0.394	0.00	-0.36%	0.19%
30	7	0.396	0.395	0.00	-0.32%	0.17%
30	8	0.396	0.395	0.00	-0.34%	0.18%
30	9	0.398	0.397	0.00	-0.39%	0.21%
30	10	0.397	0.396	0.00	-0.28%	0.15%
31	5a	0.396	0.396	0.00	-0.09%	0.05%
31	6a	0.396	0.395	0.00	-0.17%	0.09%
31	7a	0.396	0.396	0.00	-0.09%	0.05%
31	8a	0.396	0.396	0.00	-0.11%	0.06%
31	9a	0.398	0.397	0.00	-0.27%	0.15%
31	10a	0.397	0.397	0.00	-0.09%	0.05%
		Max	0.398	0.397	0.00	0.09%
		Average	0.397	0.396	0.00	-0.17%
		Min	0.396	0.394	0.00	-0.39%
		Std Dev	0.001	0.001	0.00	0.15%
						0.06%



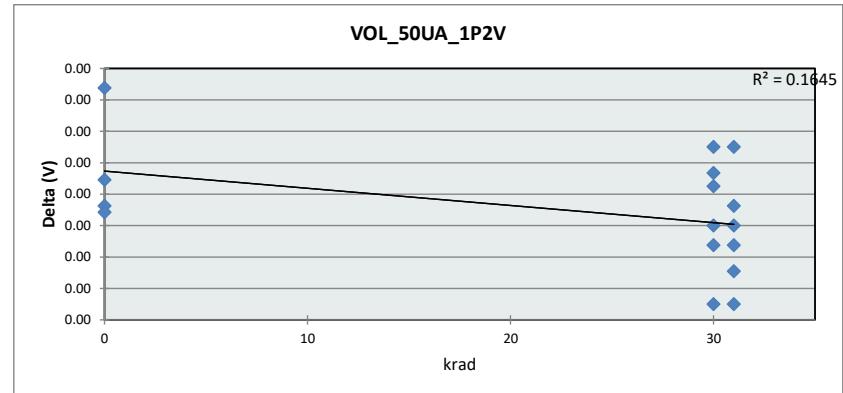
VOL_24MA_5P5V			
Units	V		
Max Limit	0.75		
Min Limit	-0.001		
krad	0	30	31
LL	-0.001	-0.001	-0.001
Min	0.396	0.394	0.395
Average	0.396	0.395	0.396
Max	0.397	0.397	0.397
UL	0.750	0.750	0.750



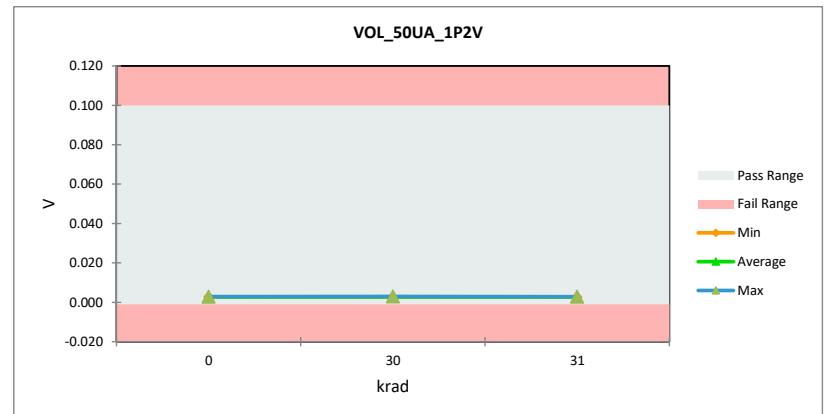
# TID Report

## SN54SC8T151-SEP

VOL_50UA_1P2V						
Units	V					
Max Limit	0.1					
Min Limit	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.003	0.003	0.00	1.12%	0.03%
0	2	0.003	0.003	0.00	8.20%	0.22%
0	3	0.003	0.003	0.00	0.78%	0.02%
0	4	0.003	0.003	0.00	2.72%	0.07%
30	5	0.003	0.003	0.00	2.29%	0.06%
30	6	0.003	0.003	0.00	2.92%	0.08%
30	7	0.003	0.003	0.00	-4.48%	0.12%
30	8	0.003	0.003	0.00	0.00%	0.00%
30	9	0.003	0.003	0.00	-1.12%	0.03%
30	10	0.003	0.003	0.00	4.69%	0.12%
31	5a	0.003	0.003	0.00	-1.14%	0.03%
31	6a	0.003	0.003	0.00	-2.53%	0.07%
31	7a	0.003	0.003	0.00	1.12%	0.03%
31	8a	0.003	0.003	0.00	-4.43%	0.12%
31	9a	0.003	0.003	0.00	0.00%	0.00%
31	10a	0.003	0.003	0.00	4.69%	0.12%
Max		0.003	0.003	0.00	8.20%	0.22%
Average		0.003	0.003	0.00	0.93%	0.07%
Min		0.003	0.003	0.00	-4.48%	0.00%
Std Dev		0.000	0.000	0.00	3.37%	0.06%

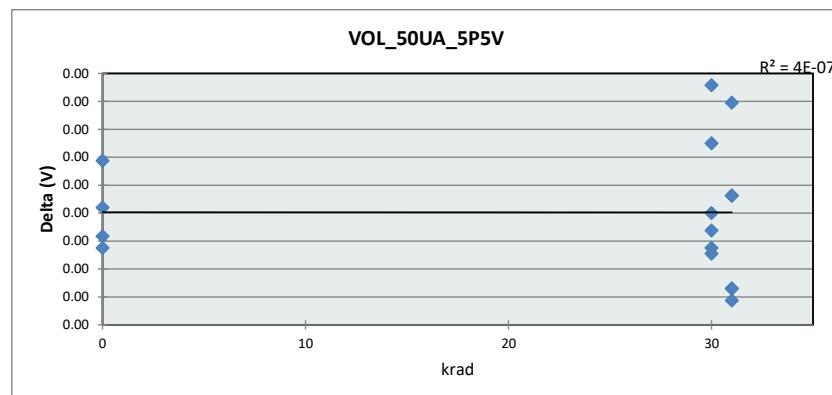


VOL_50UA_1P2V						
Units	V					
Max Limit	0.1					
Min Limit	-0.001					
krad	0	30	31	LL	Min	UL
Max	0.003	0.003	0.003	-0.001	-0.001	-0.001
Average	0.003	0.003	0.003	0.003	0.003	0.003
Min	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003	0.003
Max	0.003	0.003	0.003	0.100	0.100	0.100
UL	0.100	0.100	0.100			

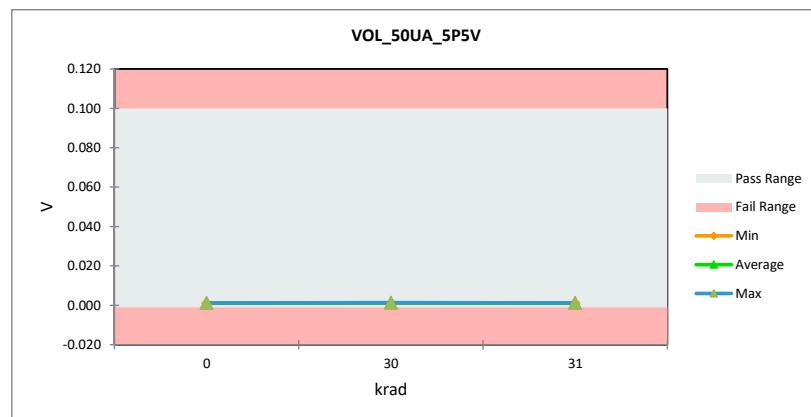


TID Report  
SN54SC8T151-SEP

VOL_50UA_5P5V						
Units	V					
	0.1					
	-0.001					
krad	Serial #	PreTestHDR	PostTestHDR	Delta	Delta %	% of Limit Range
0	1	0.001	0.001	0.00	8.99%	0.09%
0	2	0.001	0.001	0.00	-3.69%	0.04%
0	3	0.001	0.001	0.00	0.88%	0.01%
0	4	0.001	0.001	0.00	-5.65%	0.06%
30	5	0.001	0.001	0.00	-5.21%	0.06%
30	6	0.001	0.001	0.00	-2.83%	0.03%
30	7	0.001	0.001	0.00	20.69%	0.23%
30	8	0.001	0.001	0.00	-6.15%	0.07%
30	9	0.001	0.001	0.00	11.98%	0.12%
30	10	0.001	0.001	0.00	0.00%	0.00%
31	5a	0.001	0.001	0.00	-13.03%	0.15%
31	6a	0.001	0.001	0.00	2.83%	0.03%
31	7a	0.001	0.001	0.00	2.83%	0.03%
31	8a	0.001	0.001	0.00	-11.46%	0.13%
31	9a	0.001	0.001	0.00	18.93%	0.20%
31	10a	0.001	0.001	0.00	-11.16%	0.13%
	Max	0.001	0.001	0.00	20.69%	0.23%
	Average	0.001	0.001	0.00	0.50%	0.09%
	Min	0.001	0.001	0.00	-13.03%	0.00%
	Std Dev	0.000	0.000	0.00	10.22%	0.07%



VOL_50UA_5P5V			
Units	V		
Max Limit	0.1		
Min Limit	-0.001		
krad	0	30	31
LL	-0.001	-0.001	-0.001
Min	0.001	0.001	0.001
Average	0.001	0.001	0.001
Max	0.001	0.001	0.001
UL	0.100	0.100	0.100



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