



AHEAD OF WHAT'S POSSIBLE™

# HIGH DOSE RADIATION TEST REPORT AD1672S

April 2020  
Generic



Radiation Test Report	
Product:	AD1672S
Gamma:	0, 100k, 24hr
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	131 Rad/s
Facilities:	VPT RAD
Tested:	4/22/20

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It is the responsibility of the Procuring Activity to screen products from Analog Devices, Inc. for compliance to Nuclear Hardness Critical Items (HCI) specifications.

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1	ICC		mA
SN	Initial	100K	24hr
5	45.00700	44.88800	44.87800
10	45.56300	50.22800	51.86500
11	44.37300	49.19200	44.13500
12	44.49200	49.53500	49.88800
15	43.68000	48.17000	43.98800
min	43.68000	48.17000	43.98800
max	45.56300	50.22800	51.86500
stdev	0.77796	0.85704	4.01702
average	44.52700	49.28125	47.46900
+3S	46.86087	51.85238	59.52005
-3S	42.19313	46.71012	35.41795

2	IDD		mA
SN	Initial	100K	24hr
5	0.38500	0.385	0.38500
10	0.38800	5.297	2.99000
11	0.38500	5.327	2.87800
12	0.38500	5.761	3.24600
15	0.38300	5.28	2.79500
min	0.38300	5.28	2.79500
max	0.38800	5.761	3.24600
stdev	0.00206	0.23065	0.19618
average	0.38525	5.41625	2.97725
+3S	0.39143	6.10821	3.56578
-3S	0.37907	4.72429	2.38872

3	IDRVdd		mA
SN	Initial	100K	24hr
5	0.00100	0.00100	0.00100
10	0.00100	0.25900	0.16300
11	0.00100	0.26700	0.16700
12	0.00100	0.29900	0.19100
15	0.00100	0.26000	0.16200
min	0.00100	0.25900	0.16200
max	0.00100	0.29900	0.19100
stdev	0.00000	0.01884	0.01367
average	0.00100	0.27125	0.17075
+3S	0.00100	0.32777	0.21177
-3S	0.00100	0.21473	0.12973

4	Pd		mW
SN	Initial	100K	24hr
5	226.966	226.369	226.322
10	229.763	278.922	275.087
11	223.796	273.926	235.897
12	224.39	277.976	266.63
15	220.323	268.555	234.727
min	220.323	268.555	234.727
max	229.763	278.922	275.087
stdev	3.9002	4.7199	20.8166
average	224.5680	274.8448	253.0853
+3S	236.2687	289.0046	315.5352
-3S	212.8673	260.6849	190.6353

5	Vref err Bip		mV
SN	Initial	100K	24hr
5	-0.51400	-2.20500	-1.38900
10	2.83100	5.28000	6.30500
11	-2.60500	-3.37500	-2.10000
12	-3.14800	-2.49700	-2.39300
15	5.84200	4.31800	3.60800
min	-3.14800	-3.37500	-2.39300
max	5.84200	5.28000	6.30500
stdev	4.34771	4.49735	4.30360
average	0.73000	0.93150	1.35500
+3S	13.77314	14.42354	14.26581
-3S	-12.31314	-12.56054	-11.55581

6	Vref err Uni		mV
SN	Initial	100K	24hr
5	-2.54200	-4.90200	-3.79400
10	1.17900	2.37400	3.50300
11	-5.05100	-6.05100	-4.92300
12	-6.13800	-5.32000	-4.86000
15	3.33300	1.60100	0.80600
min	-6.13800	-6.05100	-4.92300
max	3.33300	2.37400	3.50300
stdev	4.63828	4.45125	4.21446
average	-1.66925	-1.84900	-1.36850
+3S	12.24560	11.50475	11.27488
-3S	-15.58410	-15.20275	-14.01188

7	Ain Resistance 5V		kOhms
SN	Initial	100K	24hr
5	4.07000	4.07100	4.07700
10	4.02800	4.03100	4.03100
11	4.08700	4.08600	4.08700
12	4.06500	4.06400	4.06300
15	4.11500	4.11700	4.11700
min	4.02800	4.03100	4.03100
max	4.11500	4.11700	4.11700
stdev	0.03673	0.03624	0.03646
average	4.07375	4.07450	4.07450
+3S	4.18393	4.18323	4.18387
-3S	3.96357	3.96577	3.96513

8	Ain Resistance 2.5V		Mohms
SN	Initial	100K	24hr
5	2.04000	2.04200	2.04200
10	2.01800	2.01900	2.01900
11	2.04700	2.04700	2.04800
12	2.03800	2.03600	2.03800
15	2.05900	2.06200	2.06000
min	2.01800	2.01900	2.01900
max	2.05900	2.06200	2.06000
stdev	0.01729	0.01813	0.01735
average	2.04050	2.04100	2.04125
+3S	2.09237	2.09539	2.09329
-3S	1.98863	1.98661	1.98921

9	Encode IIL		uA
	Initial	100K	24hr
SN			
5	0.01600	0.01400	0.01600
10	0.01600	-0.04200	0.01100
11	0.01600	-0.04200	0.01000
12	0.01600	-0.05800	0.01100
15	0.01500	-0.04600	0.01000
min	0.01500	-0.05800	0.01000
max	0.01600	-0.04200	0.01100
stdev	0.00050	0.00757	0.00058
average	0.01575	-0.04700	0.01050
+3S	0.01725	-0.02428	0.01223
-3S	0.01425	-0.06972	0.00877

10	Encode IIH		uA
	Initial	100K	24hr
SN			
5	0.01100	0.01200	0.01100
10	0.01100	0.01300	0.01000
11	0.01200	0.01400	0.01100
12	0.01200	0.01200	0.01100
15	0.01200	0.01200	0.01100
min	0.01100	0.01200	0.01000
max	0.01200	0.01400	0.01100
stdev	0.00050	0.00096	0.00050
average	0.01175	0.01275	0.01075
+3S	0.01325	0.01562	0.01225
-3S	0.01025	0.00988	0.00925

11	Vol Bit 11		V
	Initial	100K	24hr
SN			
5	0.09600	0.08800	0.08900
10	0.09700	0.08300	0.08700
11	0.09300	0.08100	0.08500
12	0.09900	0.08300	0.08700
15	0.09900	0.08200	0.08600
min	0.09300	0.08100	0.08500
max	0.09900	0.08300	0.08700
stdev	0.00283	0.00096	0.00096
average	0.09700	0.08225	0.08625
+3S	0.10549	0.08512	0.08912
-3S	0.08851	0.07938	0.08338

12	Vol Bit 10		V
	Initial	100K	24hr
SN			
5	0.08600	0.08600	0.08600
10	0.08700	0.08100	0.08300
11	0.08400	0.07800	0.08100
12	0.08800	0.08100	0.08300
15	0.08600	0.08000	0.08300
min	0.08400	0.07800	0.08100
max	0.08800	0.08100	0.08300
stdev	0.00171	0.00141	0.00100
average	0.08625	0.08000	0.08250
+3S	0.09137	0.08424	0.08550
-3S	0.08113	0.07576	0.07950

13	Vol Bit 9		V
	Initial	100K	24hr
SN			
5	0.08600	0.08600	0.08600
10	0.08700	5.12900	0.08800
11	0.08300	5.12600	0.08600
12	0.08700	5.13000	0.08800
15	0.08600	5.12800	0.08700
min	0.08300	5.12600	0.08600
max	0.08700	5.13000	0.08800
stdev	0.00189	0.00171	0.00096
average	0.08575	5.12825	0.08725
+3S	0.09143	5.13337	0.09012
-3S	0.08007	5.12313	0.08438

14	Vol Bit 8		V
	Initial	100K	24hr
SN			
5	0.08800	0.08600	0.08700
10	0.08800	5.12900	0.09000
11	0.08600	5.12600	0.08800
12	0.08800	5.12900	0.09100
15	0.08600	5.12700	0.08900
min	0.08600	5.12600	0.08800
max	0.08800	5.12900	0.09100
stdev	0.00115	0.00150	0.00129
average	0.08700	5.12775	0.08950
+3S	0.09046	5.13225	0.09337
-3S	0.08354	5.12325	0.08563

15	Vol Bit 7		V
	Initial	100K	24hr
SN			
5	0.09600	0.08900	0.09000
10	0.09600	0.08600	0.09000
11	0.09400	0.08400	0.08800
12	0.09600	0.08700	0.09100
15	0.09500	0.08600	0.08900
min	0.09400	0.08400	0.08800
max	0.09600	0.08700	0.09100
stdev	0.00096	0.00126	0.00129
average	0.09525	0.08575	0.08950
+3S	0.09812	0.08952	0.09337
-3S	0.09238	0.08198	0.08563

16	Vol Bit 6		V
	Initial	100K	24hr
SN			
5	0.09100	0.08900	0.08900
10	0.09000	5.12700	0.09200
11	0.08700	5.12300	0.09100
12	0.09100	5.12800	0.09400
15	0.08900	5.12500	0.09200
min	0.08700	5.12300	0.09100
max	0.09100	5.12800	0.09400
stdev	0.00171	0.00222	0.00126
average	0.08925	5.12575	0.09225
+3S	0.09437	5.13240	0.09602
-3S	0.08413	5.11910	0.08848

17	Vol Bit 5		V
	Initial	100K	24hr
SN			
5	0.09100	0.09100	0.09100
10	0.09100	5.12600	0.09600
11	0.08900	5.12300	0.09400
12	0.09100	5.12800	0.09600
15	0.09100	5.12400	0.09600
min	0.08900	5.12300	0.09400
max	0.09100	5.12800	0.09600
stdev	0.00100	0.00222	0.00100
average	0.09050	5.12525	0.09550
+3S	0.09350	5.13190	0.09850
-3S	0.08750	5.11860	0.09250

18	Vol Bit 4		V
	Initial	100K	24hr
SN			
5	0.09100	0.09100	0.09100
10	0.09100	0.08800	0.09100
11	0.08900	0.08600	0.09000
12	0.09200	0.08900	0.09200
15	0.09100	0.08800	0.09100
min	0.08900	0.08600	0.09000
max	0.09200	0.08900	0.09200
stdev	0.00126	0.00126	0.00082
average	0.09075	0.08775	0.09100
+3S	0.09452	0.09152	0.09345
-3S	0.08698	0.08398	0.08855

19	Vol Bit 3		V
	Initial	100K	24hr
SN			
5	0.09400	0.09400	0.09400
10	0.09400	5.08400	0.09600
11	0.09200	5.08000	0.09500
12	0.09400	5.08400	0.09700
15	0.09400	5.08100	0.09600
min	0.09200	5.08000	0.09500
max	0.09400	5.08400	0.09700
stdev	0.00100	0.00206	0.00082
average	0.09350	5.08225	0.09600
+3S	0.09650	5.08843	0.09845
-3S	0.09050	5.07607	0.09355

20	Vol Bit 2		V
	Initial	100K	24hr
SN			
5	0.09400	0.09400	0.09400
10	0.09400	0.09400	0.09700
11	0.09200	0.09400	0.09700
12	0.09600	5.11500	0.09900
15	0.09400	0.09400	0.09700
min	0.09200	0.09400	0.09700
max	0.09600	5.11500	0.09900
stdev	0.00163	2.51050	0.00100
average	0.09400	1.34925	0.09750
+3S	0.09890	8.88075	0.10050
-3S	0.08910	-6.18225	0.09450

21	Vol Bit 1		V
	Initial	100K	24hr
SN			
5	0.09600	0.09500	0.09500
10	0.09500	5.11200	0.10000
11	0.09400	5.11100	0.10000
12	0.09700	5.11400	0.10200
15	0.09400	5.11100	0.10000
min	0.09400	5.11100	0.10000
max	0.09700	5.11400	0.10200
stdev	0.00141	0.00141	0.00100
average	0.09500	5.11200	0.10050
+3S	0.09924	5.11624	0.10350
-3S	0.09076	5.10776	0.09750

22	Vol Bit 0		V
	Initial	100K	24hr
SN			
5	0.09500	0.09400	0.09500
10	0.09500	0.09400	0.10000
11	0.09300	0.09400	0.09900
12	0.09600	0.09700	0.10200
15	0.09400	0.09400	0.10000
min	0.09300	0.09400	0.09900
max	0.09600	0.09700	0.10200
stdev	0.00129	0.00150	0.00126
average	0.09450	0.09475	0.10025
+3S	0.09837	0.09925	0.10402
-3S	0.09063	0.09025	0.09648

23	Voh Bit 11		V
	Initial	100K	24hr
SN			
5	4.95100	4.95500	4.95400
10	4.95100	4.83900	4.86300
11	4.95300	4.83400	4.86300
12	4.95000	-0.02200	4.85700
15	4.95000	4.83900	4.86300
min	4.95000	-0.02200	4.85700
max	4.95300	4.83900	4.86300
stdev	0.00141	2.42967	0.00300
average	4.95100	3.62250	4.86150
+3S	4.95524	10.91150	4.87050
-3S	4.94676	-3.66650	4.85250

24	Voh Bit 10		V
	Initial	100K	24hr
SN			
5	4.95500	4.95600	4.95600
10	4.95500	4.84400	4.86800
11	4.95600	4.84100	4.87000
12	4.95500	4.85000	4.86500
15	4.95500	-0.02000	4.87000
min	4.95500	-0.02000	4.86500
max	4.95600	4.85000	4.87000
stdev	0.00050	2.43250	0.00236
average	4.95525	3.62875	4.86825
+3S	4.95675	10.92626	4.87534
-3S	4.95375	-3.66876	4.86116

25	Voh Bit 9		V
	Initial	100K	24hr
5	4.95500	4.95600	4.95600
10	4.95500	4.93700	4.94000
11	4.95700	-0.01800	4.94100
12	4.95500	4.94400	4.94000
15	4.95600	4.93800	4.94100
min	4.95500	-0.01800	4.94000
max	4.95700	4.94400	4.94100
stdev	0.00096	2.47884	0.00058
average	4.95575	3.70025	4.94050
+3S	4.95862	11.13676	4.94223
-3S	4.95288	-3.73626	4.93877

26	Voh Bit 8		V
	Initial	100K	24hr
5	4.95500	4.95600	4.95600
10	4.95500	-0.02000	4.94300
11	4.95700	4.93400	4.94400
12	4.95500	4.94500	-0.02200
15	4.95600	-0.01800	-0.02100
min	4.95500	-0.02000	-0.02200
max	4.95700	4.94500	4.94400
stdev	0.00096	2.86279	2.86654
average	4.95575	2.46025	2.46100
+3S	4.95862	11.04863	11.06063
-3S	4.95288	-6.12813	-6.13863

27	Voh Bit 7		V
	Initial	100K	24hr
5	4.95400	4.95600	4.95600
10	4.95400	-0.01700	-0.02000
11	4.95500	4.84400	-0.02000
12	4.95300	-0.01900	-0.02000
15	4.95500	4.84500	-0.02000
min	4.95300	-0.01900	-0.02000
max	4.95500	4.84500	-0.02000
stdev	0.00096	2.80737	0.00000
average	4.95425	2.41325	-0.02000
+3S	4.95712	10.83535	-0.02000
-3S	4.95138	-6.00885	-0.02000

28	Voh Bit 6		V
	Initial	100K	24hr
5	4.95500	4.95700	4.95700
10	4.95600	4.94200	4.94500
11	4.95800	-0.01500	4.94700
12	4.95500	-0.02000	4.94500
15	4.95800	-0.01600	4.94600
min	4.95500	-0.02000	4.94500
max	4.95800	4.94200	4.94700
stdev	0.00150	2.47950	0.00096
average	4.95675	1.22275	4.94575
+3S	4.96125	8.66125	4.94862
-3S	4.95225	-6.21575	4.94288

29	Voh Bit 5		V
	Initial	100K	24hr
5	4.95500	4.95800	4.95700
10	4.95700	-0.01800	-0.02000
11	4.95800	-0.01400	-0.02000
12	4.95600	-0.02000	-0.02000
15	4.95800	-0.01500	-0.02000
min	4.95600	-0.02000	-0.02000
max	4.95800	-0.01400	-0.02000
stdev	0.00096	0.00275	0.00000
average	4.95725	-0.01675	-0.02000
+3S	4.96012	-0.00849	-0.02000
-3S	4.95438	-0.02501	-0.02000

30	Voh Bit 4		V
	Initial	100K	24hr
5	4.95700	4.95800	4.95800
10	4.95800	-0.01700	-0.01900
11	4.95800	-0.01200	-0.01800
12	4.95700	-0.01800	-0.01900
15	4.95800	-0.01500	-0.01900
min	4.95700	-0.01800	-0.01900
max	4.95800	-0.01200	-0.01800
stdev	0.00050	0.00265	0.00050
average	4.95775	-0.01550	-0.01875
+3S	4.95925	-0.00756	-0.01725
-3S	4.95625	-0.02344	-0.02025

31	Voh Bit 3		V
	Initial	100K	24hr
5	4.95700	4.95700	4.95700
10	4.95700	4.90100	4.91300
11	4.95800	4.89600	4.91300
12	4.95600	4.90200	4.91100
15	4.95700	4.89900	4.91300
min	4.95600	4.89600	4.91100
max	4.95800	4.90200	4.91300
stdev	0.00082	0.00265	0.00100
average	4.95700	4.89950	4.91250
+3S	4.95945	4.90744	4.91550
-3S	4.95455	4.89156	4.90950

32	Voh Bit 2		V
	Initial	100K	24hr
5	4.95700	4.95800	4.95800
10	4.95700	4.93900	4.94400
11	4.95900	4.93800	4.94600
12	4.95700	4.93900	4.94200
15	4.95800	4.94100	4.94600
min	4.95700	4.93800	4.94200
max	4.95900	4.94100	4.94600
stdev	0.00096	0.00126	0.00191
average	4.95775	4.93925	4.94450
+3S	4.96062	4.94302	4.95024
-3S	4.95488	4.93548	4.93876

33	Voh Bit 1		V
	Initial	100K	24hr
5	4.95900	4.96000	4.96000
10	4.95900	4.94400	4.94800
11	4.95900	4.94200	4.94800
12	4.95700	-0.01800	4.94600
15	4.95900	-0.01400	4.94900
min	4.95700	-0.01800	4.94600
max	4.95900	4.94400	4.94900
stdev	0.00100	2.86308	0.00126
average	4.95850	2.46350	4.94775
+3S	4.96150	11.05274	4.95152
-3S	4.95550	-6.12574	4.94398

34	Voh Bit 0		V
	Initial	100K	24hr
5	4.95900	4.96000	4.96000
10	4.95900	4.92900	4.93900
11	4.96000	4.93000	4.93900
12	4.95900	4.92600	4.93600
15	4.95900	4.92900	4.93900
min	4.95900	4.92600	4.93600
max	4.96000	4.93000	4.93900
stdev	0.00050	0.00173	0.00150
average	4.95925	4.92850	4.93825
+3S	4.96075	4.93370	4.94275
-3S	4.95775	4.92330	4.93375

35	Vol OTR		V
	Initial	100K	24hr
5	0.10000	0.09900	0.09900
10	0.10000	0.09500	0.09900
11	0.09800	0.09300	0.10100
12	0.10100	0.09600	0.10000
15	0.09800	0.09300	0.09800
min	0.09800	0.09300	0.09800
max	0.10100	0.09600	0.10100
stdev	0.00150	0.00150	0.00129
average	0.09925	0.09425	0.09950
+3S	0.10375	0.09875	0.10337
-3S	0.09475	0.08975	0.09563

36	Voh OTR		V
	Initial	100K	24hr
5	4.95800	4.95800	4.95800
10	4.95800	-0.02300	4.87100
11	4.95900	-0.02300	4.86900
12	4.95800	-0.02300	4.86000
15	4.95900	-0.02300	4.86800
min	4.95800	-0.02300	4.86000
max	4.95900	-0.02300	4.87100
stdev	0.00058	0.00000	0.00483
average	4.95850	-0.02300	4.86700
+3S	4.96023	-0.02300	4.88149
-3S	4.95677	-0.02300	4.85251

37	Unipolar Vos 2.5V		%FSR
	Initial	100K	24hr
5	-0.21400	-0.22200	-0.21600
10	-0.15200	-33.88100	4.00000
11	-0.14500	-33.88100	3.93000
12	-0.20500	-33.88100	4.00000
15	-0.21200	-33.88100	4.00000
min	-0.21200	-33.88100	3.93000
max	-0.14500	-33.88100	4.00000
stdev	0.03488	0.00000	0.03500
average	-0.17850	-33.88100	3.98250
+3S	-0.07387	-33.88100	4.08750
-3S	-0.28313	-33.88100	3.87750

38	Unipolar Gain 2.5V		%FSR
	Initial	100K	24hr
5	-0.31300	-0.32100	-0.33000
10	-0.52600	5.32800	5.07200
11	-0.24100	5.56000	5.10100
12	-0.25700	30.87800	5.28700
15	-0.60900	30.70700	5.26400
min	-0.60900	5.32800	5.07200
max	-0.24100	30.87800	5.28700
stdev	0.18710	14.63544	0.11016
average	-0.40825	18.11825	5.18100
+3S	0.15304	62.02456	5.51148
-3S	-0.96954	-25.78806	4.85052

39	Unipolar Vos 5V		%FSR
	Initial	100K	24hr
5	-0.09000	-0.09500	-0.09100
10	-0.03100	-33.88100	1.39200
11	-0.02300	-33.88100	2.00000
12	-0.08100	-33.88100	2.00000
15	-0.09000	-33.88100	2.00000
min	-0.09000	-33.88100	1.39200
max	-0.02300	-33.88100	2.00000
stdev	0.03413	0.00000	0.30400
average	-0.05625	-33.88100	1.84800
+3S	0.04614	-33.88100	2.76000
-3S	-0.15864	-33.88100	0.93600

40	Unipolar Gain 5V		%FSR
	Initial	100K	24hr
5	-0.26000	-0.26300	-0.27100
10	-0.39500	5.32800	5.07200
11	-0.12900	5.56000	5.11600
12	-0.19300	30.87800	5.28600
15	-0.47900	30.70700	5.26700
min	-0.47900	5.32800	5.07200
max	-0.12900	30.87800	5.28600
stdev	0.16508	14.63544	0.10717
average	-0.29900	18.11825	5.18525
+3S	0.19623	62.02456	5.50675
-3S	-0.79423	-25.78806	4.86375

41	Bipolar Zero		%FSR
SN	Initial	100K	24hr
5	-0.17700	-0.19300	-0.19100
10	-0.17800	9.84500	4.30300
11	-0.16200	9.84500	3.74100
12	-0.20900	9.84500	4.34600
15	-0.22700	9.84500	4.30300
min	-0.22700	9.84500	3.74100
max	-0.16200	9.84500	4.34600
stdev	0.02941	0.00000	0.28888
average	-0.19400	9.84500	4.17325
+3S	-0.10578	9.84500	5.03989
-3S	-0.28222	9.84500	3.30661

42	Bipolar Gain		%FSR
SN	Initial	100K	24hr
5	-0.30300	-0.30300	-0.31500
10	-0.48700	39.20900	3.07200
11	-0.24100	39.44100	3.09800
12	-0.25100	64.75800	3.29300
15	-0.51900	64.58700	3.26700
min	-0.51900	39.20900	3.07200
max	-0.24100	64.75800	3.29300
stdev	0.14901	14.63486	0.11358
average	-0.37450	51.99875	3.18250
+3S	0.07253	95.90333	3.52324
-3S	-0.82153	8.09417	2.84176

43	PSRR Vcc		%FSR
SN	Initial	100K	24hr
5	-0.00034	-0.00032	-0.00032
10	-0.00053	0.00039	0.00072
11	-0.00038	-0.00049	0.00067
12	-0.00039	0.00010	0.00019
15	-0.00044	0.00000	-0.00091
min	-0.00053	-0.00049	-0.00091
max	-0.00038	0.00039	0.00072
stdev	0.00007	0.00037	0.00076
average	-0.00044	0.00000	0.00017
+3S	-0.00023	0.00110	0.00244
-3S	-0.00064	-0.00110	-0.00210

44	PSRR Vdd		%FSR
SN	Initial	100K	24hr
5	-0.00051	-0.00027	-0.00029
10	-0.00052	0.00023	0.00000
11	-0.00049	0.00000	0.03100
12	-0.00048	0.00000	0.00009
15	-0.00050	0.00000	0.03100
min	-0.00052	0.00000	0.00000
max	-0.00048	0.00023	0.03100
stdev	0.00002	0.00011	0.01787
average	-0.00050	0.00006	0.01552
+3S	-0.00044	0.00040	0.06914
-3S	-0.00056	-0.00028	-0.03809

45	PSRR VDrVdd		%FSR
SN	Initial	100K	24hr
5	0.00000	-0.00001	-0.00002
10	-0.00003	0.00000	0.00000
11	-0.00003	0.00000	-0.00020
12	0.00001	0.00000	0.00011
15	-0.00003	0.00000	0.00008
min	-0.00003	0.00000	-0.00020
max	0.00001	0.00000	0.00011
stdev	0.00002	0.00000	0.00014
average	-0.00002	0.00000	0.00000
+3S	0.00004	0.00000	0.00042
-3S	-0.00008	-0.00001	-0.00043

46	-DNL Bipolar		LSB
SN	Initial	100K	24hr
5	-0.55600	-0.47400	-0.49800
10	-0.60400	-1.00000	-1.00000
11	-0.56400	-1.00000	-1.00000
12	-0.49000	-1.00000	-1.00000
15	-0.67000	-1.00000	-1.00000
min	-0.67000	-1.00000	-1.00000
max	-0.49000	-1.00000	-1.00000
stdev	0.07531	0.00000	0.00000
average	-0.58200	-1.00000	-1.00000
+3S	-0.35606	-1.00000	-1.00000
-3S	-0.80794	-1.00000	-1.00000

47	+DNL Bipolar		LSB
SN	Initial	100K	24hr
5	0.43100	0.40600	0.43100
10	0.45900	1761.47000	275.58300
11	0.40600	1745.80000	241.80200
12	0.38100	1736.22000	208.47100
15	0.48400	1702.54000	297.62000
min	0.38100	1702.54000	208.47100
max	0.48400	1761.47000	297.62000
stdev	0.04729	24.92222	39.05653
average	0.43250	1736.50750	255.86900
+3S	0.57437	1811.27415	373.03860
-3S	0.29063	1661.74085	138.69940

48	-INL Bipolar		LSB
SN	Initial	100K	24hr
5	-0.49300	-0.53100	-0.62600
10	-0.91500	-1386.50000	-536.77000
11	-0.74500	-1386.50000	-500.40100
12	-0.95900	-1386.50000	-652.64200
15	-0.75500	-1386.50000	-517.13600
min	-0.95900	-1386.50000	-652.64200
max	-0.74500	-1386.50000	-500.40100
stdev	0.10952	0.00000	68.89229
average	-0.84350	-1386.50000	-551.73725
+3S	-0.51493	-1386.50000	-345.06037
-3S	-1.17207	-1386.50000	-758.41413

<b>49</b>	<b>+INL Bipolar</b>		<b>LSB</b>
<b>SN</b>	<b>Initial</b>	<b>100K</b>	<b>24hr</b>
<b>5</b>	0.67400	0.63000	0.65200
<b>10</b>	0.70700	487.81000	206.50000
<b>11</b>	0.28000	494.54900	206.50000
<b>12</b>	0.86600	1255.17000	214.19600
<b>15</b>	0.18000	1104.97000	208.61200
<b>min</b>	0.18000	487.81000	206.50000
<b>max</b>	0.86600	1255.17000	214.19600
<b>stdev</b>	0.33032	402.43958	3.63500
<b>average</b>	0.50825	835.62475	208.95200
<b>+3S</b>	1.49921	2042.94349	219.85701
<b>-3S</b>	-0.48271	-371.69399	198.04699

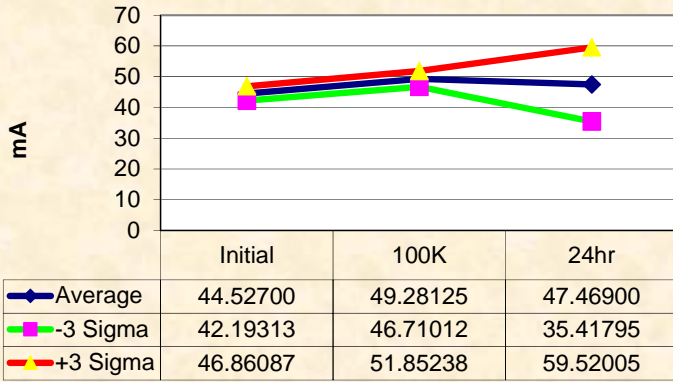
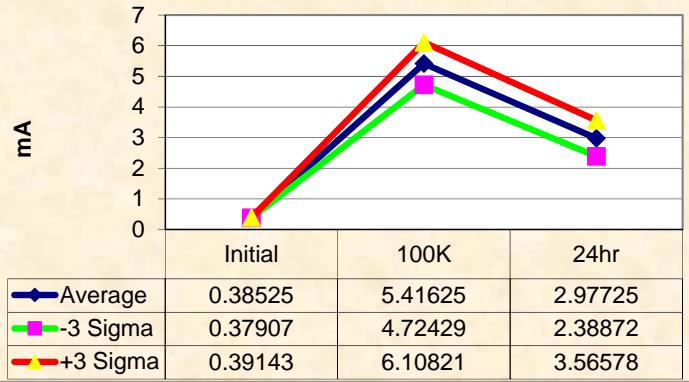
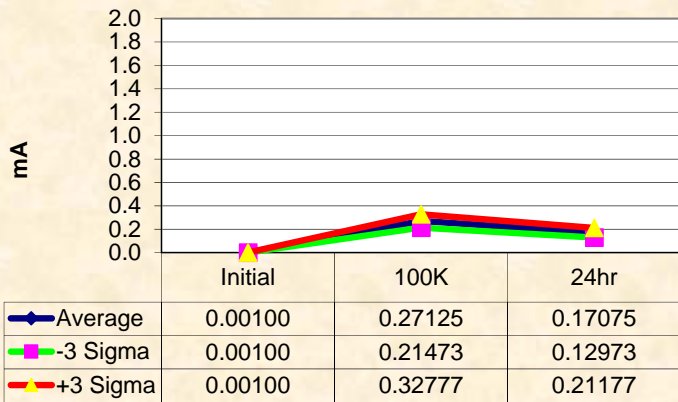
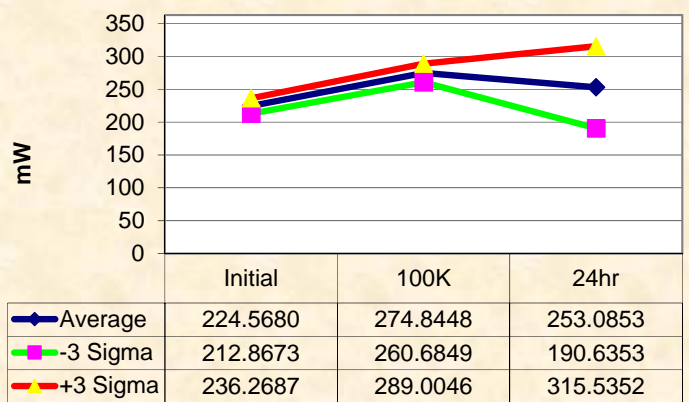
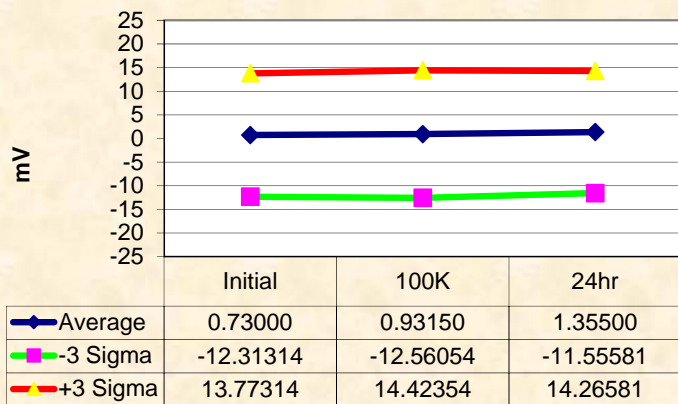
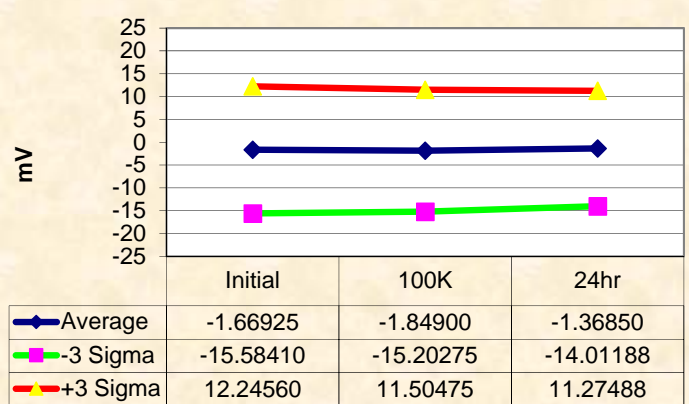
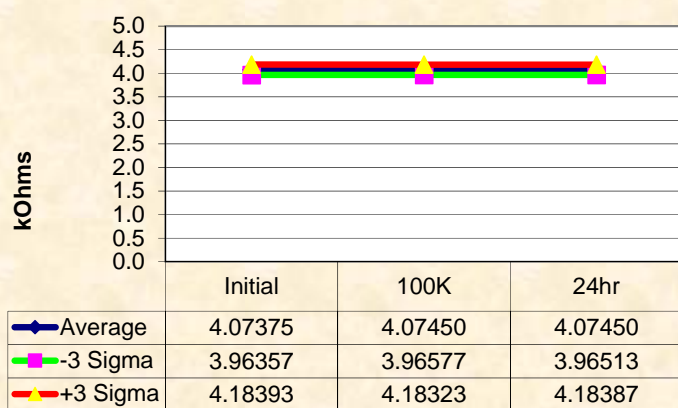
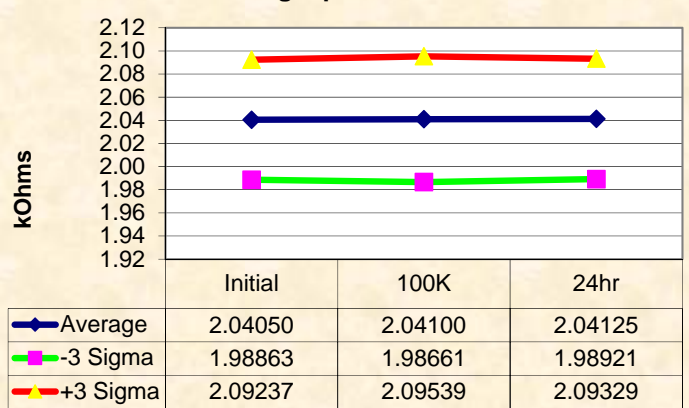
<b>50</b>	<b>-DNL Unipolar</b>		<b>LSB</b>
<b>SN</b>	<b>Initial</b>	<b>100K</b>	<b>24hr</b>
<b>5</b>	-0.42500	-0.52400	-0.46600
<b>10</b>	-0.59700	-1.00000	-1.00000
<b>11</b>	-0.49900	-1.00000	-1.00000
<b>12</b>	-0.54900	-1.00000	-1.00000
<b>15</b>	-0.58800	-1.00000	-1.00000
<b>min</b>	-0.59700	-1.00000	-1.00000
<b>max</b>	-0.49900	-1.00000	-1.00000
<b>stdev</b>	0.04466	0.00000	0.00000
<b>average</b>	-0.55825	-1.00000	-1.00000
<b>+3S</b>	-0.42428	-1.00000	-1.00000
<b>-3S</b>	-0.69222	-1.00000	-1.00000

<b>55</b>	<b>+DNL Unipolar</b>		<b>LSB</b>
<b>SN</b>	<b>Initial</b>	<b>100K</b>	<b>24hr</b>
<b>5</b>	0.43700	0.42100	0.50300
<b>10</b>	0.60500	1761.93000	272.66400
<b>11</b>	0.49400	1752.04000	240.38600
<b>12</b>	0.44500	1738.72000	200.63300
<b>15</b>	0.49800	1704.28000	291.85300
<b>min</b>	0.44500	1704.28000	200.63300
<b>max</b>	0.60500	1761.93000	291.85300
<b>stdev</b>	0.06745	25.17372	39.94662
<b>average</b>	0.51050	1739.24250	251.38400
<b>+3S</b>	0.71285	1814.76365	371.22387
<b>-3S</b>	0.30815	1663.72135	131.54413

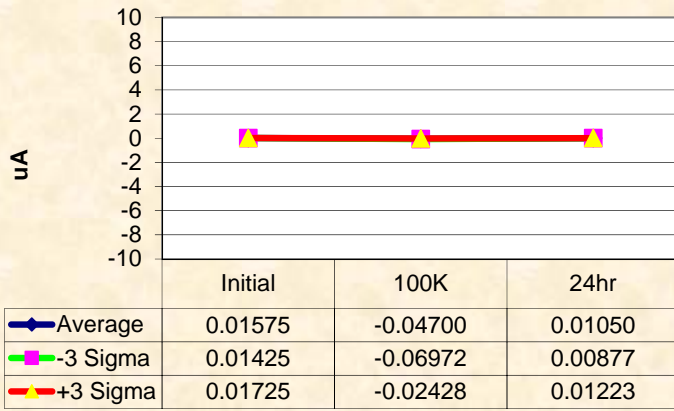
<b>56</b>	<b>-INL Unipolar</b>		<b>LSB</b>
<b>SN</b>	<b>Initial</b>	<b>100K</b>	<b>24hr</b>
<b>5</b>	-0.64700	-0.72800	-0.63500
<b>10</b>	-1.21700	-1386.50000	-533.81600
<b>11</b>	-0.84800	-1386.50000	-498.75100
<b>12</b>	-1.24600	-1386.50000	-648.10100
<b>15</b>	-0.88700	-1386.50000	-516.57300
<b>min</b>	-1.24600	-1386.50000	-648.10100
<b>max</b>	-0.84800	-1386.50000	-498.75100
<b>stdev</b>	0.21109	0.00000	67.39844
<b>average</b>	-1.04950	-1386.50000	-549.31025
<b>+3S</b>	-0.41623	-1386.50000	-347.11493
<b>-3S</b>	-1.68277	-1386.50000	-751.50557

<b>57</b>	<b>+INL Unipolar</b>		<b>LSB</b>
<b>SN</b>	<b>Initial</b>	<b>100K</b>	<b>24hr</b>
<b>5</b>	<b>0.80500</b>	<b>0.86800</b>	<b>0.88200</b>
<b>10</b>	0.99600	488.73100	206.50000
<b>11</b>	0.51100	499.07800	206.50000
<b>12</b>	1.01400	1255.46000	214.42400
<b>15</b>	0.56100	1105.03000	206.57900
<b>min</b>	0.51100	488.73100	206.50000
<b>max</b>	1.01400	1255.46000	214.42400
<b>stdev</b>	0.27164	401.01181	3.94901
<b>average</b>	0.77050	837.07475	208.50075
<b>+3S</b>	1.58543	2040.11017	220.34778
<b>-3S</b>	-0.04443	-365.96067	196.65372

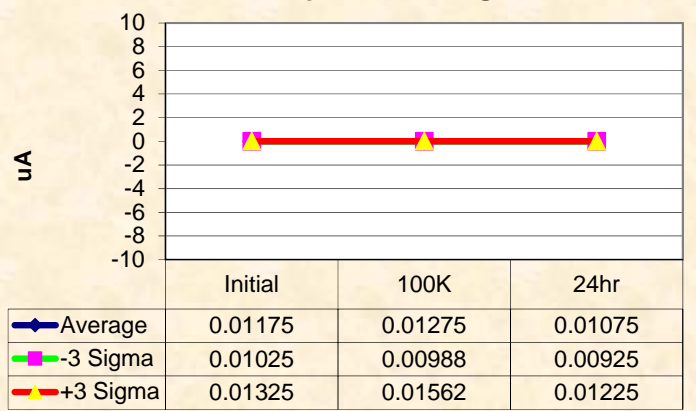


**+Supply Current ICC****-Supply Current IDD****+Supply Current IDRvdd****Power Dissipation****Vref Error (Bipolar)****Vref Error (Unipolar)****Analog Input Resistance 5V****Analog Input Resistance 2.5V**

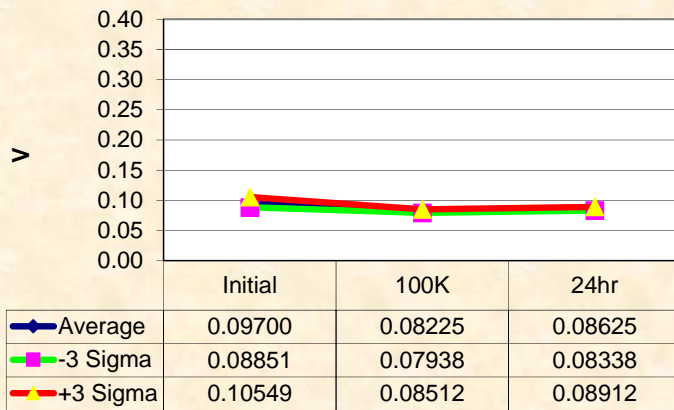
**Encode Input Current Low**



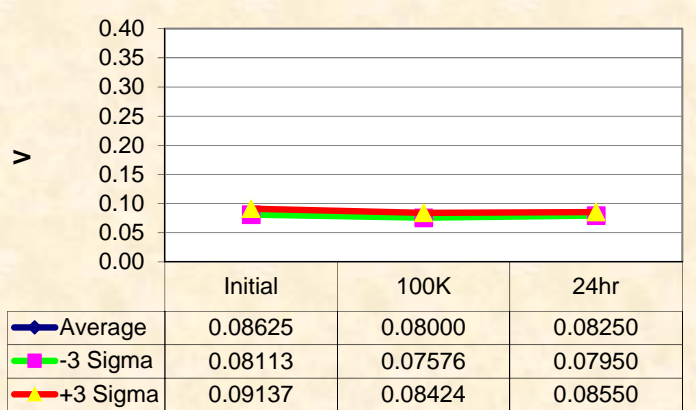
**Encode Input Current High**



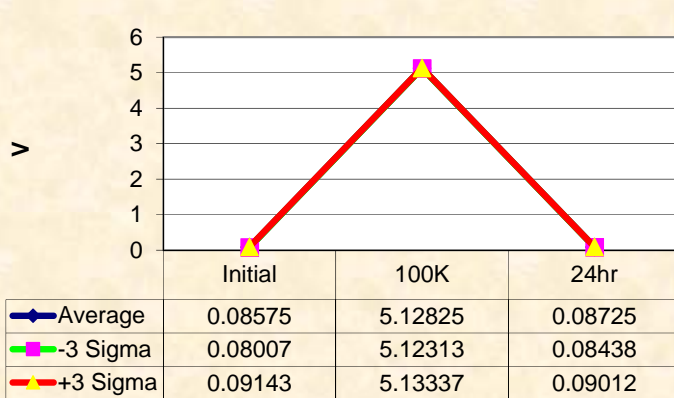
**Output Voltage Low Bit 11**



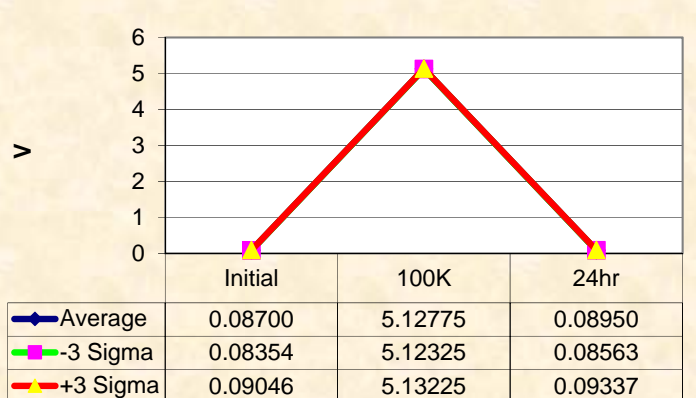
**Output Voltage Low Bit 10**



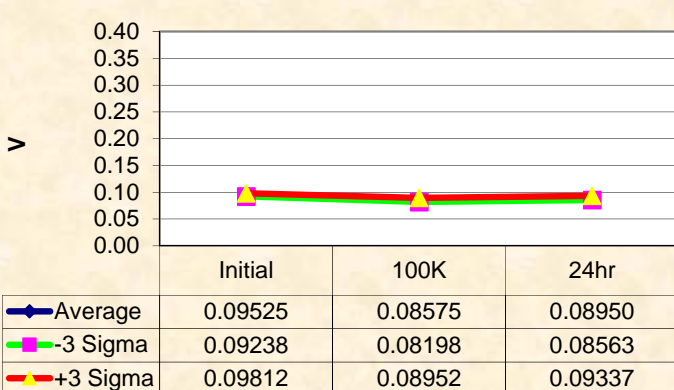
**Output Voltage Low Bit 9**



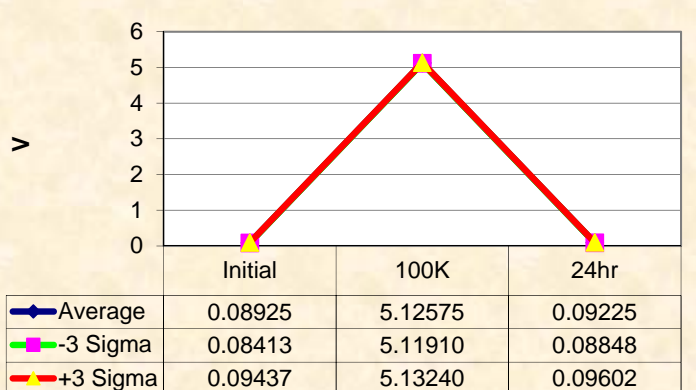
**Output Voltage Low Bit 8**



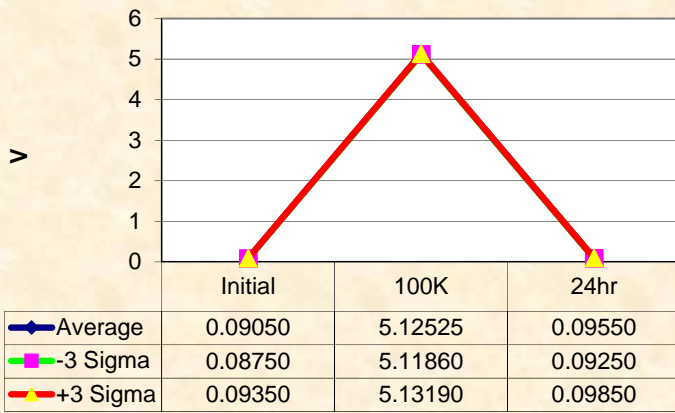
**Output Voltage Low Bit 7**



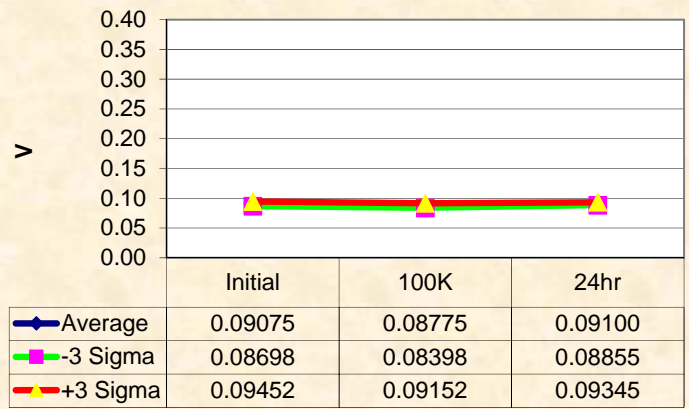
**Output Voltage Low Bit 6**



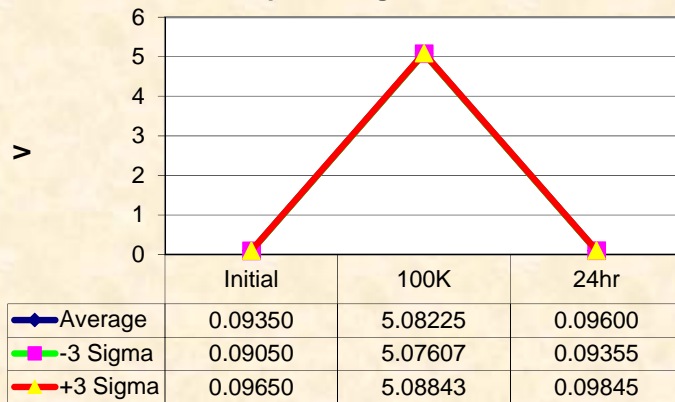
**Output Voltage Low Bit 5**



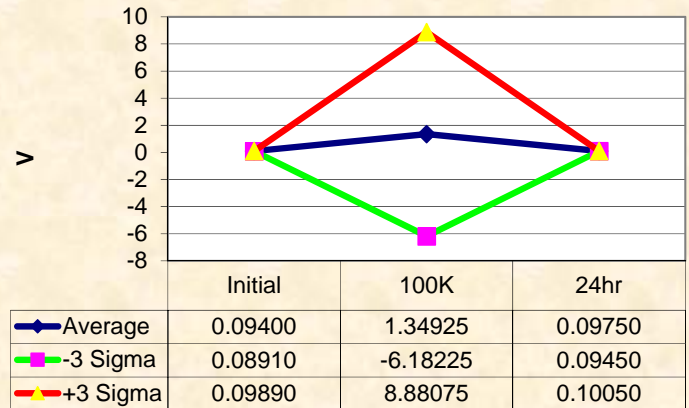
**Output Voltage Low Bit 4**



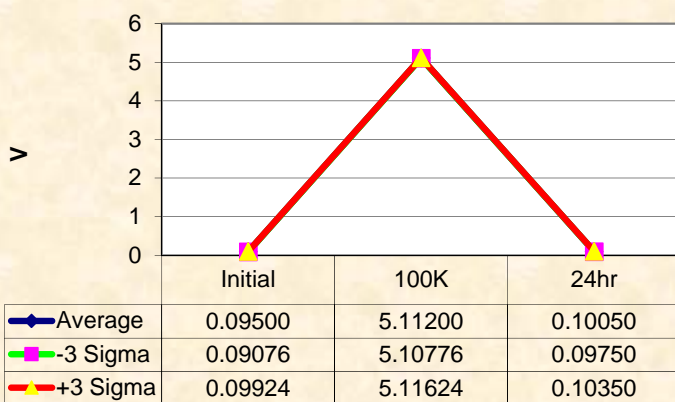
**Output Voltage Low Bit 3**



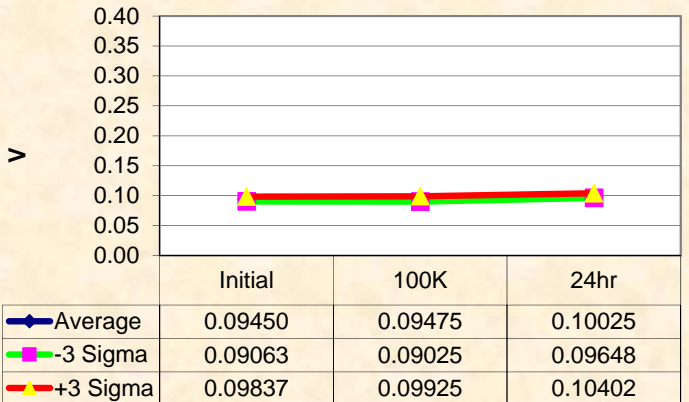
**Output Voltage Low Bit 2**



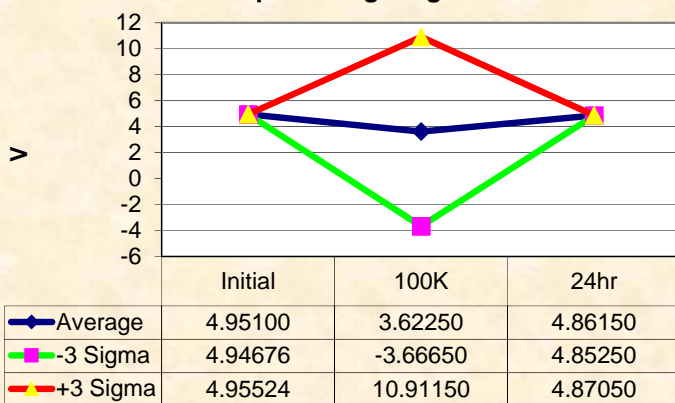
**Output Voltage Low Bit 1**



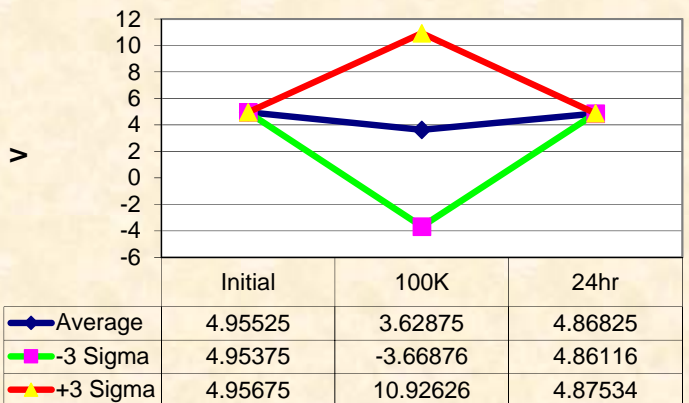
**Output Voltage Low Bit 0**



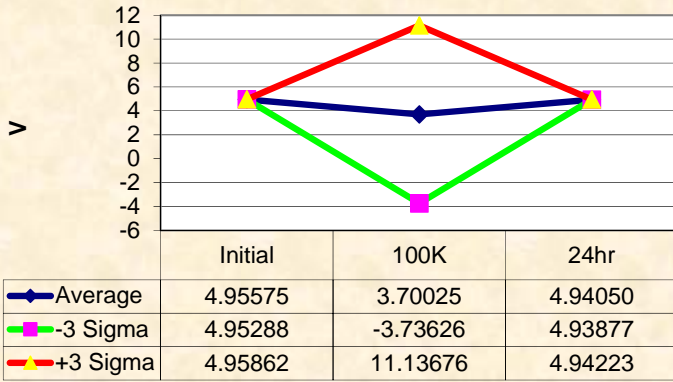
**Output Voltage High Bit 11**



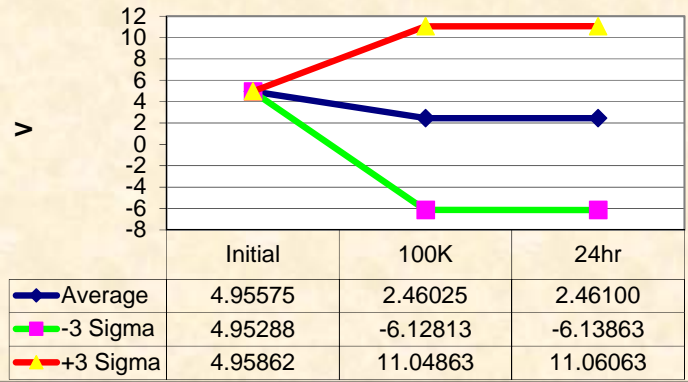
**Output Voltage High Bit 10**



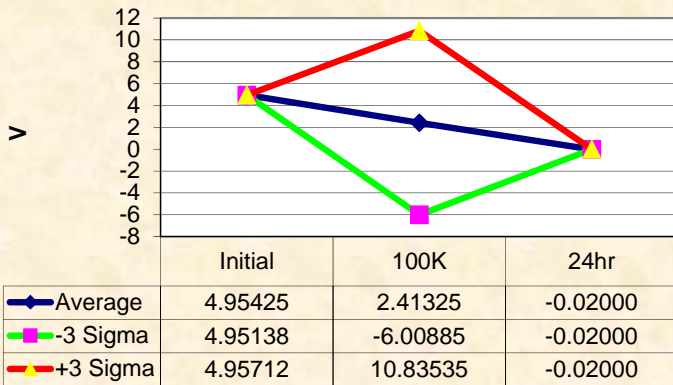
**Output Voltage High Bit 9**



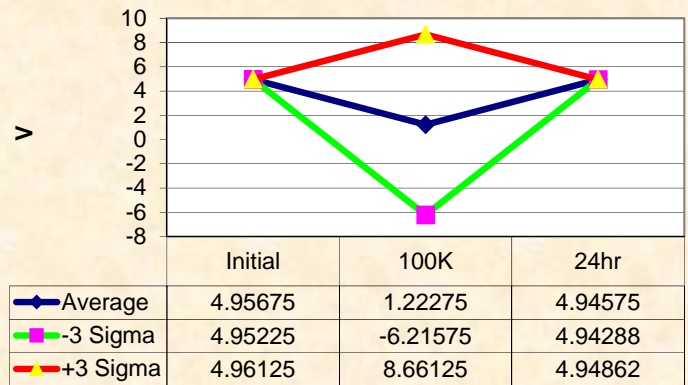
**Output Voltage High Bit 8**



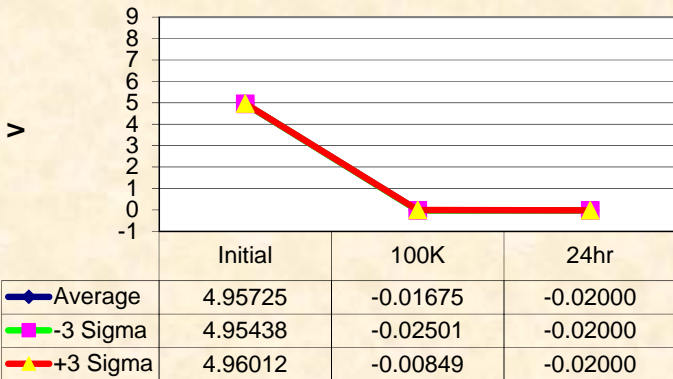
**Output Voltage High Bit 7**



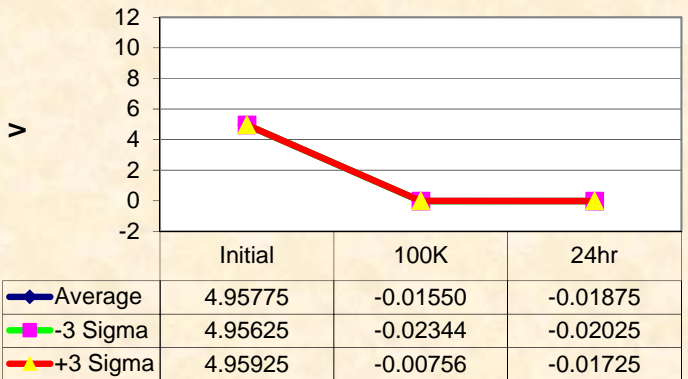
**Output Voltage High Bit 6**



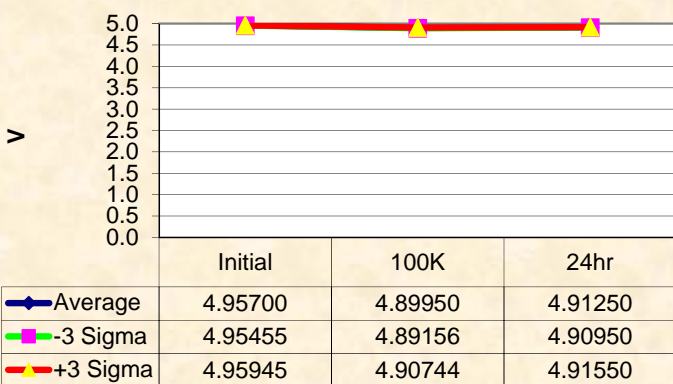
**Output Voltage High Bit 5**



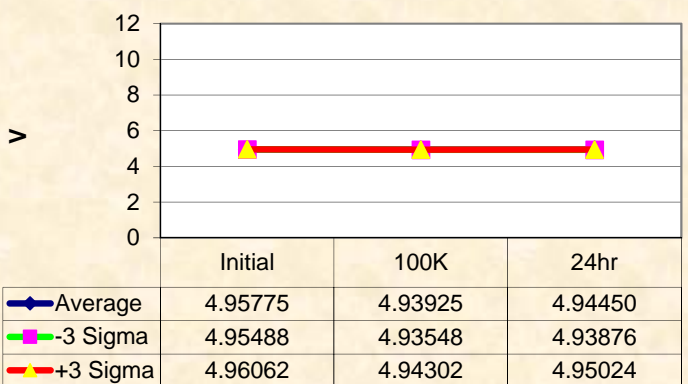
**Output Voltage High Bit 4**



**Output Voltage High Bit 3**

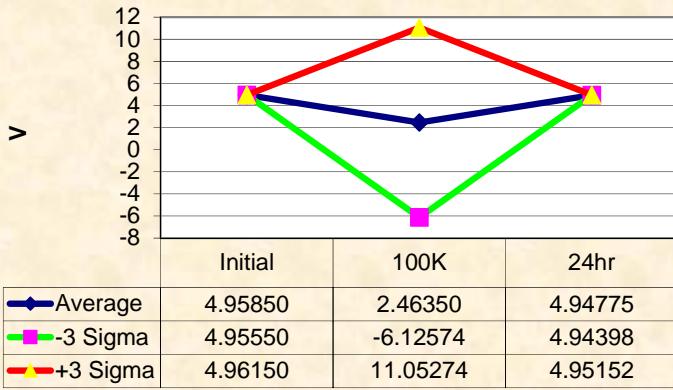


**Output Voltage High Bit 2**

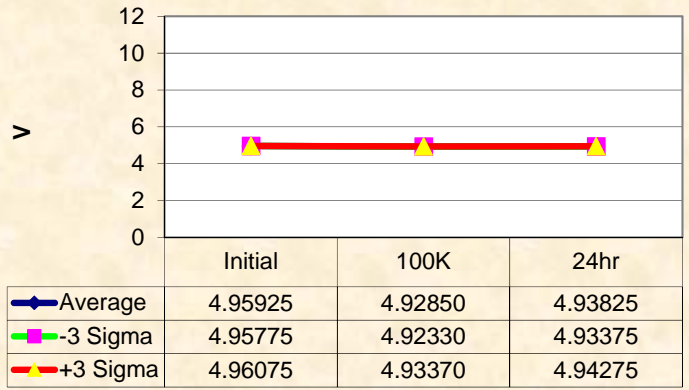




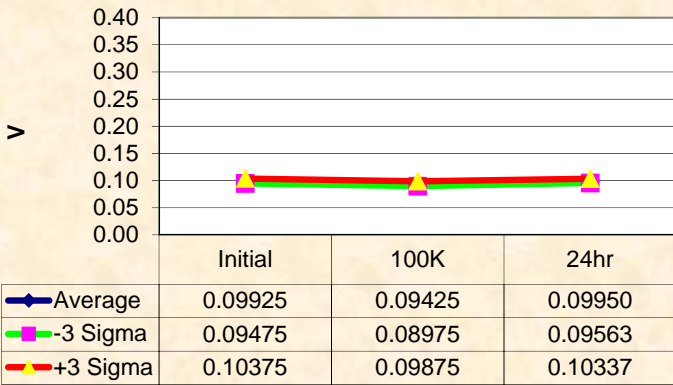
**Output Voltage High Bit 1**



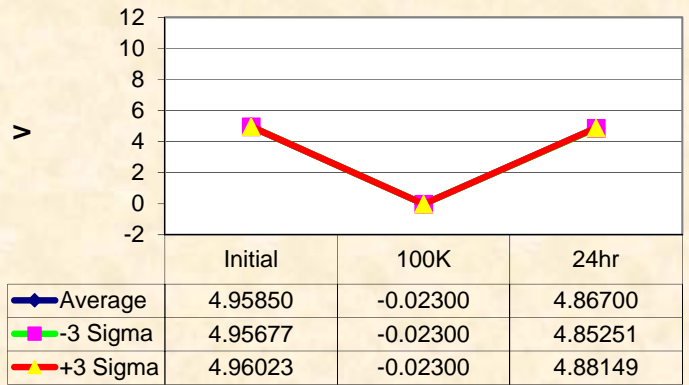
**Output Voltage High Bit 0**



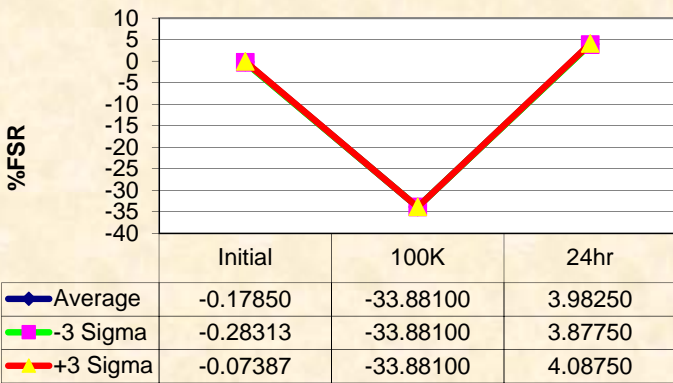
**Output Voltage Low OTR**



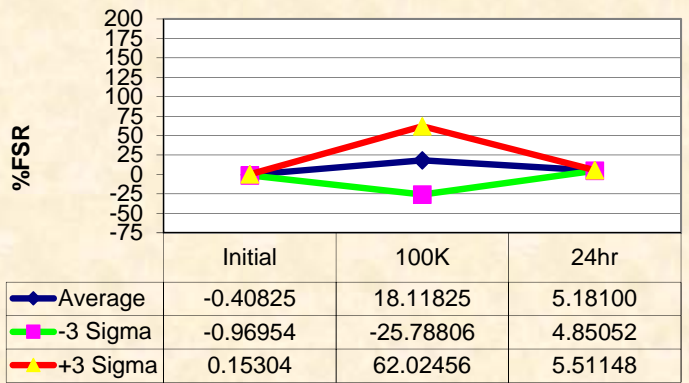
**Output Voltage High OTR**



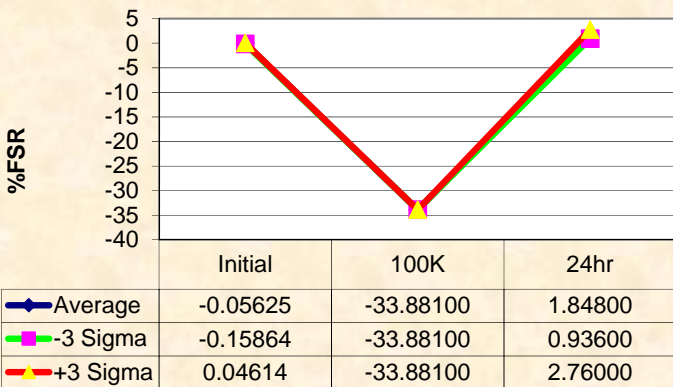
**Unipolar Offset 2.5V**



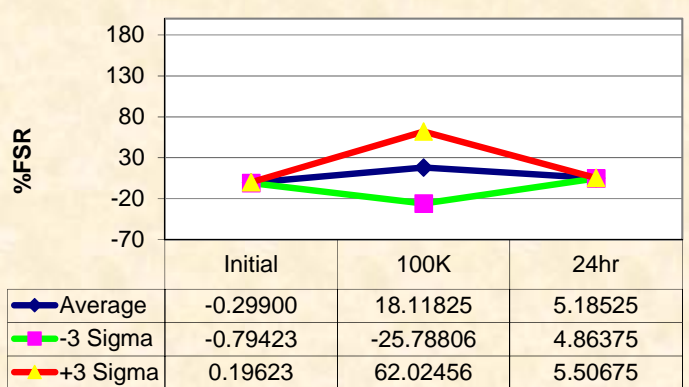
**Unipolar Gain 2.5V**



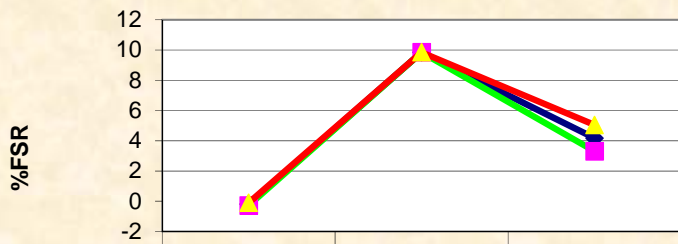
**Unipolar Offset 5V**



**Unipolar Gain 5V**

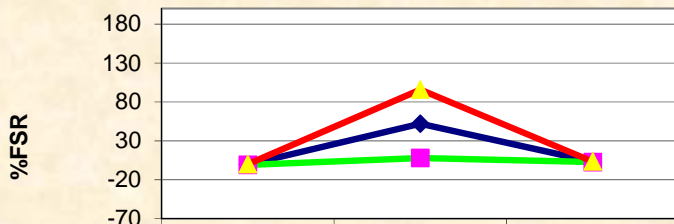


### Bipolar Zero



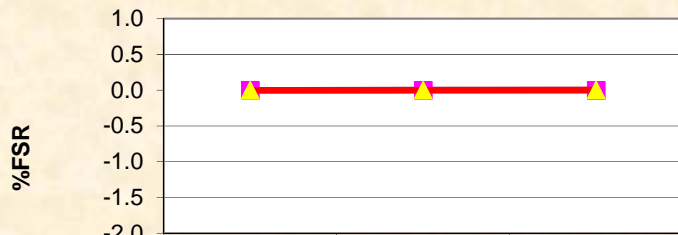
	Initial	100K	24hr
Average	-0.19400	9.84500	4.17325
-3 Sigma	-0.28222	9.84500	3.30661
+3 Sigma	-0.10578	9.84500	5.03989

### Bipolar Gain



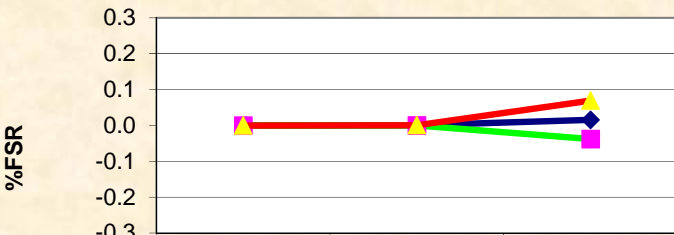
	Initial	100K	24hr
Average	-0.37450	51.99875	3.18250
-3 Sigma	-0.82153	8.09417	2.84176
+3 Sigma	0.07253	95.90333	3.52324

### PSRR - Vcc



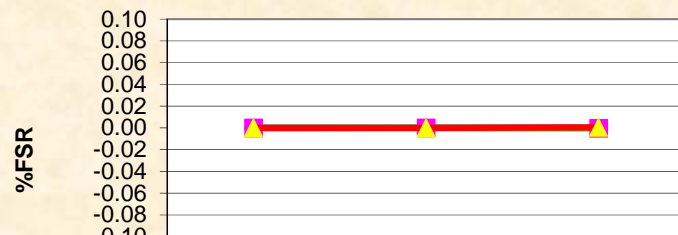
	Initial	100K	24hr
Average	-0.00044	0.00000	0.00017
-3 Sigma	-0.00064	-0.00110	-0.00210
+3 Sigma	-0.00023	0.00110	0.00244

### PSRR - Vdd



	Initial	100K	24hr
Average	-0.00050	0.00006	0.01552
-3 Sigma	-0.00056	-0.00028	-0.03809
+3 Sigma	-0.00044	0.00040	0.06914

### PSRR - VDrVdd



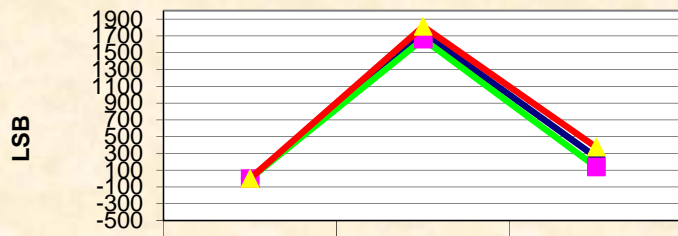
	Initial	100K	24hr
Average	-0.00002	0.00000	0.00000
-3 Sigma	-0.00008	-0.00001	-0.00043
+3 Sigma	0.00004	0.00000	0.00042

### -DNL Bipolar



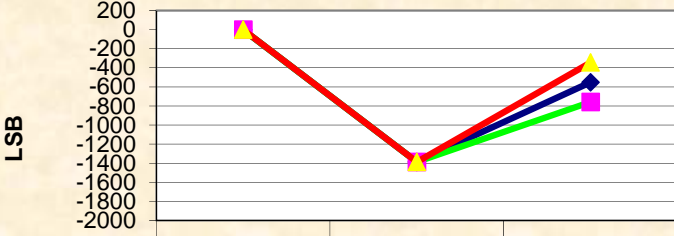
	Initial	100K	24hr
Average	-0.58200	-1.00000	-1.00000
-3 Sigma	-0.80794	-1.00000	-1.00000
+3 Sigma	-0.35606	-1.00000	-1.00000

### +DNL Bipolar

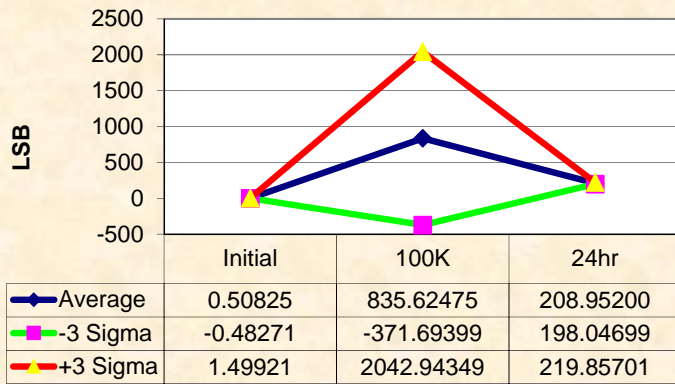
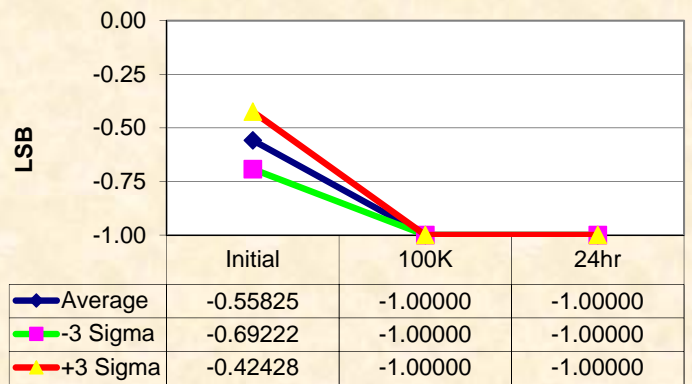
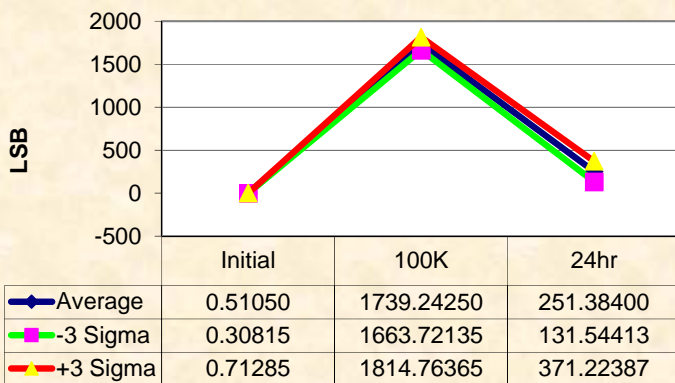
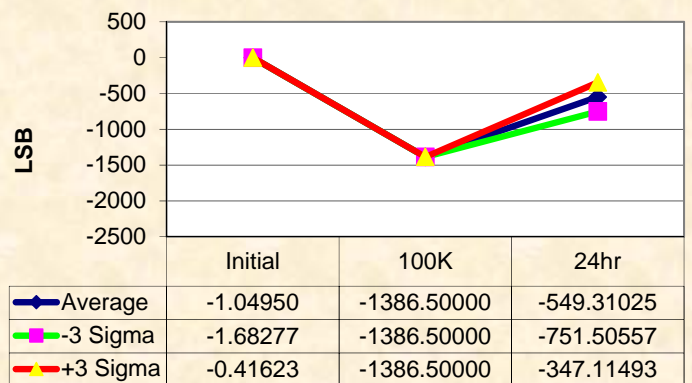


	Initial	100K	24hr
Average	0.43250	1736.50750	255.86900
-3 Sigma	0.29063	1661.74085	138.69940
+3 Sigma	0.57437	1811.27415	373.03860

### -INL Bipolar



	Initial	100K	24hr
Average	-0.84350	-1386.50000	-551.73725
-3 Sigma	-1.17207	-1386.50000	-758.41413
+3 Sigma	-0.51493	-1386.50000	-345.06037

**+INL Bipolar****-DNL Unipolar****+DNL Unipolar****-INL Unipolar****+INL Unipolar**