Radiation Test Report

PRODUCT:	**AD768AF/QMLR**
GAMMA:	**0, 100k**
GAMMA SOURCE:	**Co60**
DOSE RATE:	**186 Rad/s**
FACILITIES:	**Univerity Of Massachusetts @ Lowell**
TESTED:	**9/17/2008**

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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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ANALOG DEVICES

T# 5	AVEE		mA
SN	Initial	100K	24 Hr
16	-63.916	-63.916	-63.896
32	-64.165	-63.792	-63.896
33	-63.916	-63.543	-63.772
35	-63.916	-63.543	-63.896
36	-63.916	-63.543	-63.896
37	-63.916	-63.667	-63.896
45	-63.543	-63.543	-63.522
46	-63.543	-63.169	-63.522
47	-63.667	-63.543	-63.522
48	-63.916	-63.792	-63.896
49	-63.916	-63.543	-63.522
Min	-64.165	-63.792	-63.896
Max	-63.543	-63.169	-63.522
Std Dev	0.197	0.174	0.186
Average	-63.842	-63.568	-63.734
+3 Sigma	-63.252	-63.045	-63.176
-3 Sigma	-64.431	-64.090	-64.293

AVEE
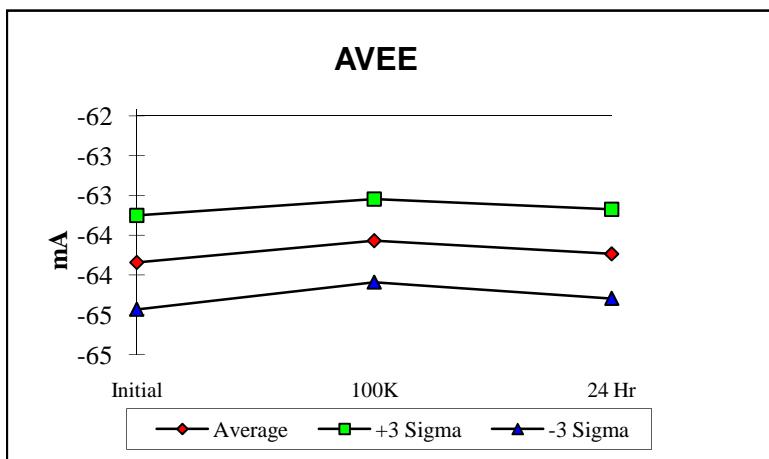
T# 6	AVDD		mA
SN	Initial	100K	24 Hr
16	**31.52**	**31.52**	**31.485**
32	31.52	31.15	31.36
33	31.15	30.77	31.11
35	31.52	31.15	31.11
36	31.52	31.15	31.23
37	31.52	31.15	31.36
45	31.15	30.90	30.73
46	30.77	30.77	30.73
47	31.15	31.02	31.11
48	31.52	31.27	31.23
49	31.40	31.15	31.11
Min	30.77	30.77	30.73
Max	31.52	31.27	31.36
Std Dev	0.26	0.17	0.22
Average	31.32	31.05	31.11
+3 Sigma	32.0981	31.5725	31.7714
-3 Sigma	30.5476	30.5228	30.4478
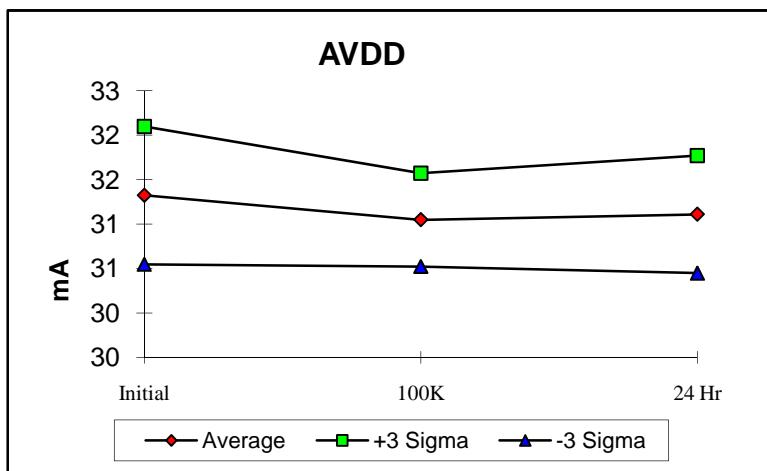
T# 7	Power Dissipation		W
SN	Initial	100K	24 Hr
16	0.477	0.477	0.477
32	0.478	0.475	0.476
33	0.475	0.472	0.474
35	0.477	0.473	0.475
36	0.477	0.473	0.476
37	0.477	0.474	0.476
45	0.473	0.472	0.471
46	0.472	0.470	0.471
47	0.474	0.473	0.473
48	0.477	0.475	0.476
49	0.477	0.473	0.473
Min	0.472	0.470	0.471
Max	0.478	0.475	0.476
Std Dev	0.002	0.002	0.002
Average	0.476	0.473	0.474
+3 Sigma	0.482	0.478	0.480
-3 Sigma	0.469	0.468	0.468

Power Dissipation
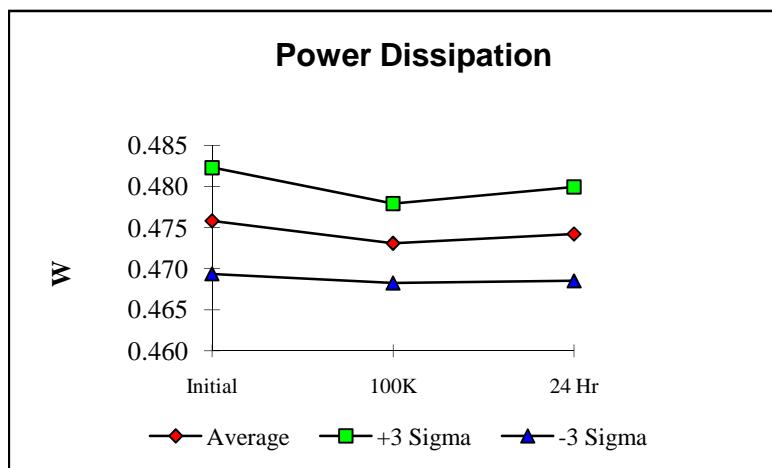
T# 10	Vref		V
SN	Initial	100K	24 Hr
16	2.500	2.500	2.500
32	2.499	2.498	2.497
33	2.500	2.499	2.497
35	2.500	2.499	2.497
36	2.500	2.499	2.498
37	2.499	2.499	2.498
45	2.500	2.499	2.499
46	2.500	2.500	2.499
47	2.500	2.499	2.498
48	2.500	2.500	2.499
49	2.499	2.499	2.499
Min	2.499	2.498	2.497
Max	2.500	2.500	2.499
Std Dev	0.000	0.001	0.001
Average	2.500	2.499	2.498
+3 Sigma	2.501	2.501	2.500
-3 Sigma	2.498	2.497	2.496
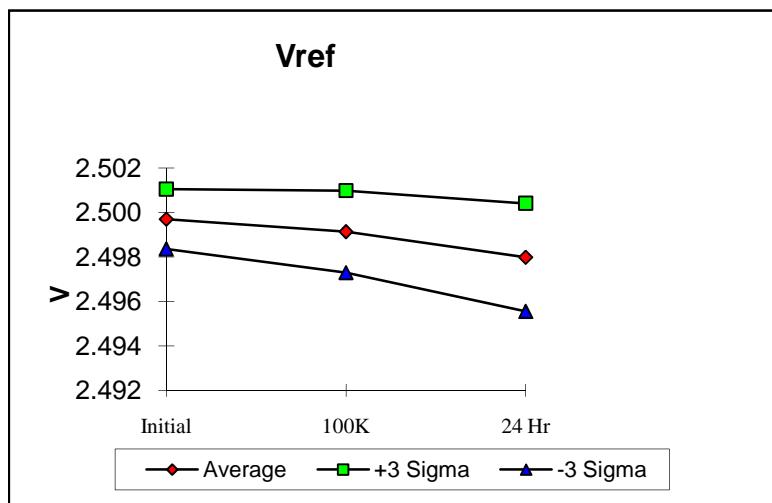
Vref

T# 11	Vref-Out I		mA
SN	Initial	100K	24 Hr
16	**9.981**	**9.980**	**9.981**
32	9.977	9.974	9.969
33	9.983	9.978	9.972
35	9.981	9.980	9.972
36	9.980	9.980	9.974
37	9.979	9.978	9.974
45	9.982	9.980	9.977
46	9.984	9.982	9.978
47	9.982	9.979	9.973
48	9.983	9.982	9.978
49	9.981	9.979	9.978
Min	9.977	9.974	9.969
Max	9.984	9.982	9.978
Std Dev	0.002	0.002	0.003
Average	9.981	9.979	9.974
+3 Sigma	9.987	9.987	9.984
-3 Sigma	9.975	9.972	9.965

Vref - Output Current
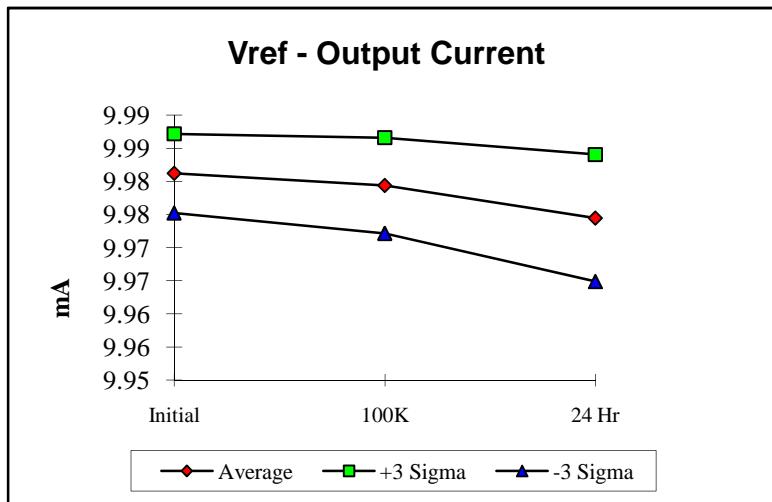
T# 12	Vref Input I		mA
SN	Initial	100K	24 Hr
16	5.033	5.021	5.029
32	5.046	5.040	5.042
33	5.043	5.033	5.039
35	5.037	5.046	5.042
36	5.043	5.037	5.042
37	5.043	5.040	5.042
45	5.046	5.043	5.032
46	5.037	5.037	5.036
47	5.040	5.043	5.039
48	5.043	5.043	5.045
49	5.040	5.046	5.045
Min	5.037	5.033	5.032
Max	5.046	5.046	5.045
Std Dev	0.003	0.004	0.004
Average	5.042	5.041	5.040
+3 Sigma	5.052	5.054	5.053
-3 Sigma	5.031	5.028	5.028

Vref Input Current
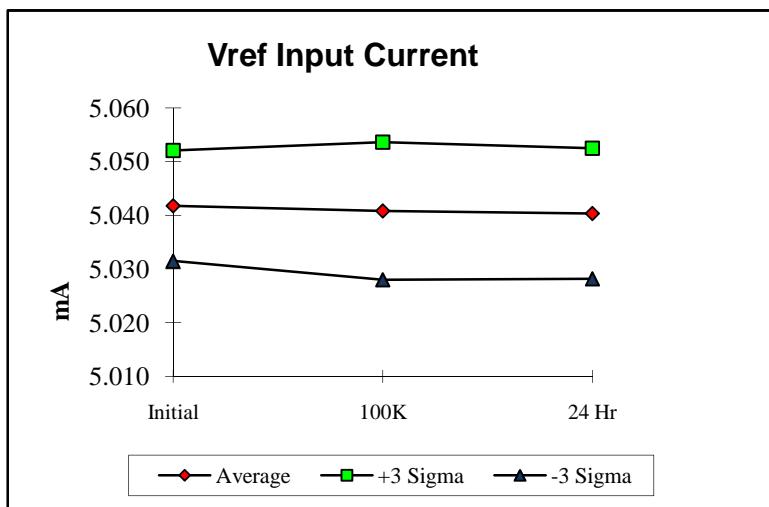
T# 20	Offset -A		%FSR
SN	Initial	100K	24 Hr
16	0.063	0.063	0.060
32	0.064	0.064	0.061
33	0.062	0.062	0.058
35	0.065	0.066	0.059
36	0.064	0.065	0.060
37	0.065	0.065	0.060
45	0.061	0.062	0.056
46	0.060	0.061	0.056
47	0.064	0.064	0.059
48	0.065	0.065	0.060
49	0.064	0.064	0.059
Min	0.060	0.061	0.056
Max	0.065	0.066	0.061
Std Dev	0.002	0.002	0.002
Average	0.064	0.064	0.059
+3 Sigma	0.069	0.069	0.064
-3 Sigma	0.058	0.059	0.054

Offset - Channel A
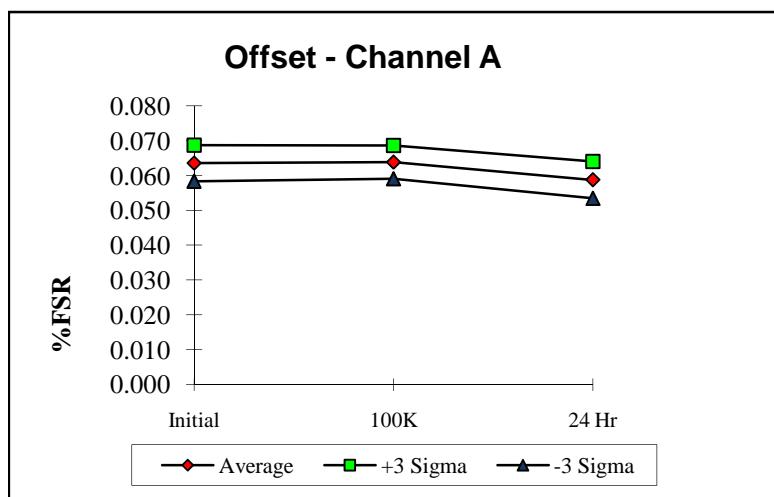
T# 21	Gain -A		%FSR
SN	Initial	100K	24 Hr
16	-0.107	-0.105	-0.119
32	-0.088	-0.129	-0.126
33	-0.070	-0.118	-0.122
35	0.001	-0.032	-0.054
36	-0.025	-0.039	-0.048
37	-0.103	-0.084	-0.061
45	-0.094	-0.084	-0.071
46	-0.016	0.006	0.013
47	-0.079	-0.085	-0.076
48	-0.042	-0.013	0.025
49	-0.055	-0.036	-0.007
Min	-0.103	-0.129	-0.126
Max	0.001	0.006	0.025
Std Dev	0.036	0.045	0.051
Average	-0.057	-0.061	-0.053
+3 Sigma	0.049	0.074	0.101
-3 Sigma	-0.164	-0.196	-0.206

Gain - Channel A
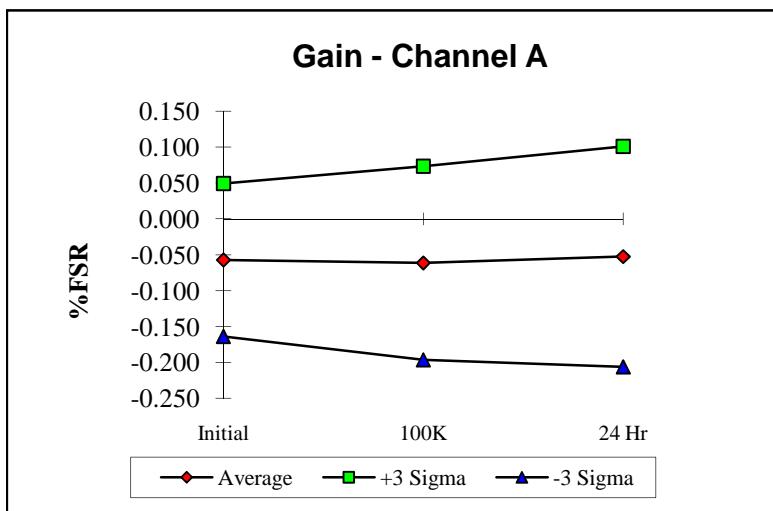
T# 31	PSRR - VDD - A		%FS/V
SN	Initial	100K	24 Hr
16	**-0.021**	**-0.020**	**-0.020**
32	-0.018	-0.019	-0.021
33	-0.026	-0.026	-0.031
35	-0.021	-0.018	-0.024
36	-0.022	-0.020	-0.023
37	-0.020	-0.016	-0.020
45	-0.018	-0.016	-0.018
46	-0.017	-0.015	-0.019
47	-0.013	-0.013	-0.015
48	-0.024	-0.024	-0.026
49	-0.024	-0.022	-0.027
Min	-0.026	-0.026	-0.031
Max	-0.013	-0.013	-0.015
Std Dev	0.004	0.004	0.005
Average	-0.020	-0.019	-0.022
+3 Sigma	-0.009	-0.007	-0.008
-3 Sigma	-0.032	-0.031	-0.036

PSRR -VDD - A
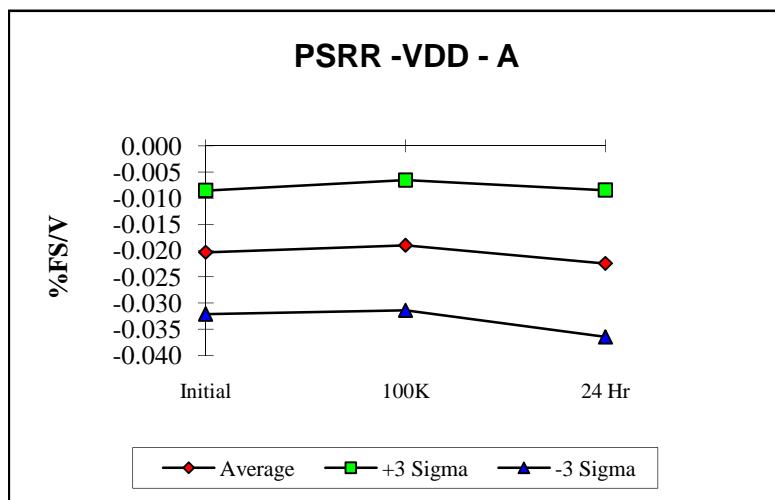
T# 33	PSRR - VEE -A		%FS/V
SN	Initial	100K	24 Hr
16	-0.058	-0.058	-0.058
32	-0.058	-0.063	-0.062
33	-0.060	-0.065	-0.066
35	-0.058	-0.061	-0.062
36	-0.055	-0.058	-0.060
37	-0.057	-0.060	-0.057
45	-0.058	-0.061	-0.059
46	-0.060	-0.063	-0.062
47	-0.054	-0.056	-0.054
48	-0.058	-0.061	-0.060
49	-0.060	-0.061	-0.063
Min	-0.060	-0.065	-0.066
Max	-0.054	-0.056	-0.054
Std Dev	0.002	0.003	0.003
Average	-0.058	-0.061	-0.060
+3 Sigma	-0.052	-0.053	-0.050
-3 Sigma	-0.064	-0.069	-0.071
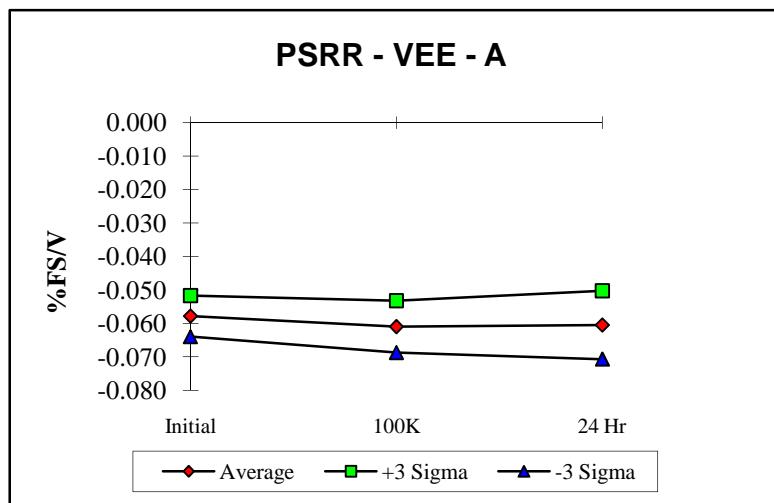
T# 40	Offset - B		%FSR
SN	Initial	100K	24 Hr
16	0.067	0.067	0.064
32	0.069	0.069	0.066
33	0.067	0.067	0.063
35	0.070	0.071	0.064
36	0.069	0.069	0.065
37	0.070	0.070	0.064
45	0.066	0.066	0.061
46	0.065	0.066	0.061
47	0.069	0.069	0.064
48	0.070	0.070	0.065
49	0.069	0.069	0.063
Min	0.065	0.066	0.061
Max	0.070	0.071	0.066
Std Dev	0.002	0.002	0.002
Average	0.068	0.069	0.064
+3 Sigma	0.073	0.073	0.069
-3 Sigma	0.064	0.064	0.058

Offset Channel B
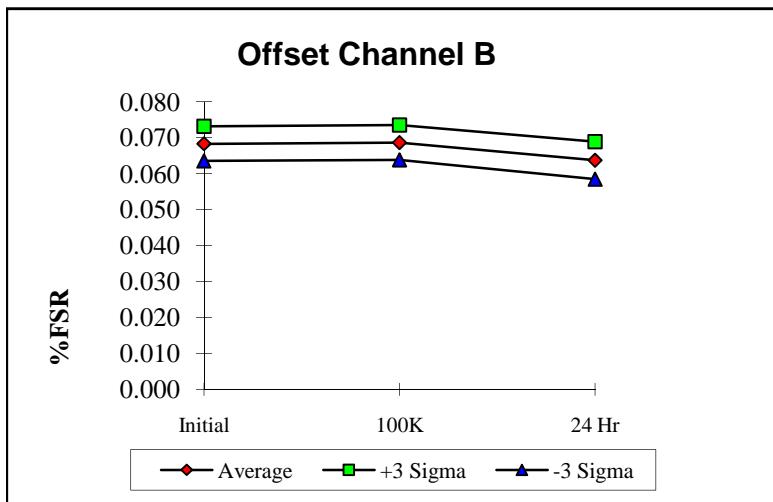
T# 41	Gain - Channel B		%FSR
SN	Initial	100K	24 Hr
16	**-0.089**	**-0.088**	**-0.101**
32	-0.071	-0.111	-0.109
33	-0.058	-0.106	-0.111
35	0.013	-0.020	-0.042
36	-0.011	-0.025	-0.034
37	-0.089	-0.078	-0.056
45	-0.081	-0.077	-0.066
46	-0.003	0.011	0.021
47	-0.063	-0.078	-0.068
48	-0.025	-0.004	0.035
49	-0.040	-0.028	0.004
Min	-0.089	-0.111	-0.111
Max	0.013	0.011	0.035
Std Dev	0.035	0.043	0.050
Average	-0.043	-0.052	-0.043
+3 Sigma	0.062	0.079	0.108
-3 Sigma	-0.148	-0.182	-0.193

Gain Channel B
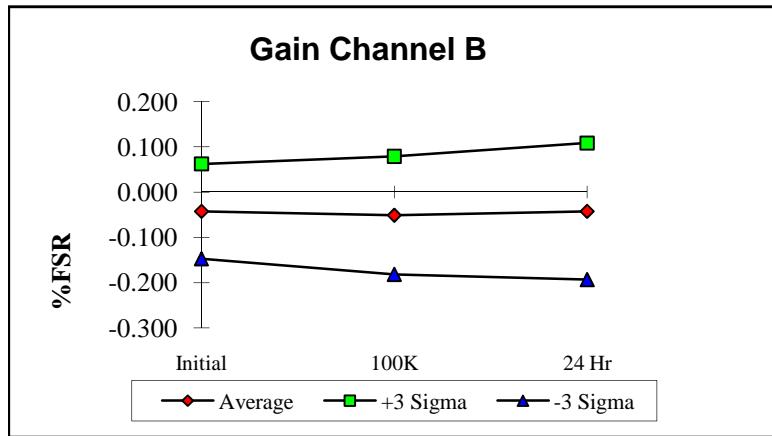
T# 51	PSRR - VDD - B		%FS/V
SN	Initial	100K	24 Hr
16	**-0.021**	**-0.021**	**-0.021**
32	-0.019	-0.018	-0.024
33	-0.029	-0.027	-0.031
35	-0.022	-0.021	-0.024
36	-0.021	-0.021	-0.026
37	-0.021	-0.017	-0.021
45	-0.016	-0.015	-0.019
46	-0.019	-0.016	-0.018
47	-0.015	-0.012	-0.015
48	-0.026	-0.023	-0.027
49	-0.025	-0.023	-0.026
Min	-0.029	-0.027	-0.031
Max	-0.015	-0.012	-0.015
Std Dev	0.004	0.004	0.005
Average	-0.021	-0.019	-0.023
+3 Sigma	-0.009	-0.006	-0.008
-3 Sigma	-0.034	-0.033	-0.038
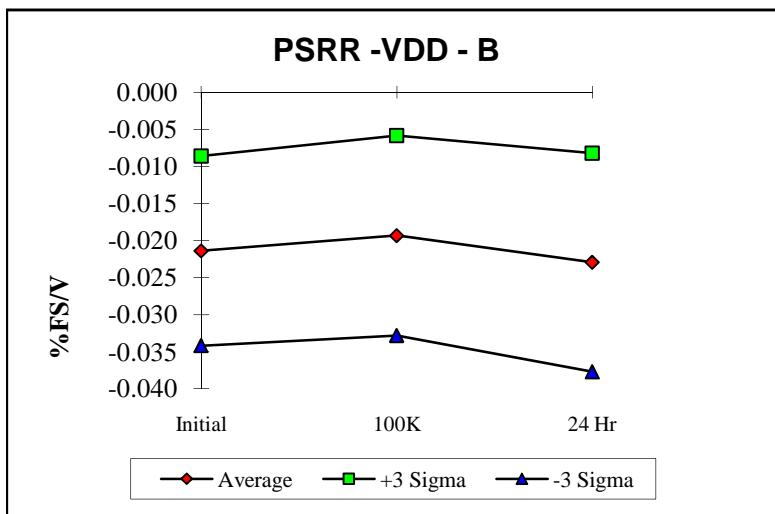
T# 53	PSRR - VEE - B		%FS/V
SN	Initial	100K	24 Hr
16	**-0.059**	**-0.058**	**-0.059**
32	-0.058	-0.061	-0.062
33	-0.061	-0.065	-0.064
35	-0.060	-0.062	-0.062
36	-0.057	-0.060	-0.059
37	-0.057	-0.062	-0.061
45	-0.061	-0.064	-0.063
46	-0.060	-0.065	-0.065
47	-0.054	-0.059	-0.058
48	-0.057	-0.064	-0.061
49	-0.058	-0.065	-0.062
Min	-0.061	-0.065	-0.065
Max	-0.054	-0.059	-0.058
Std Dev	0.002	0.002	0.002
Average	-0.058	-0.063	-0.062
+3 Sigma	-0.052	-0.056	-0.055
-3 Sigma	-0.065	-0.069	-0.068

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PSRR - VEE - B
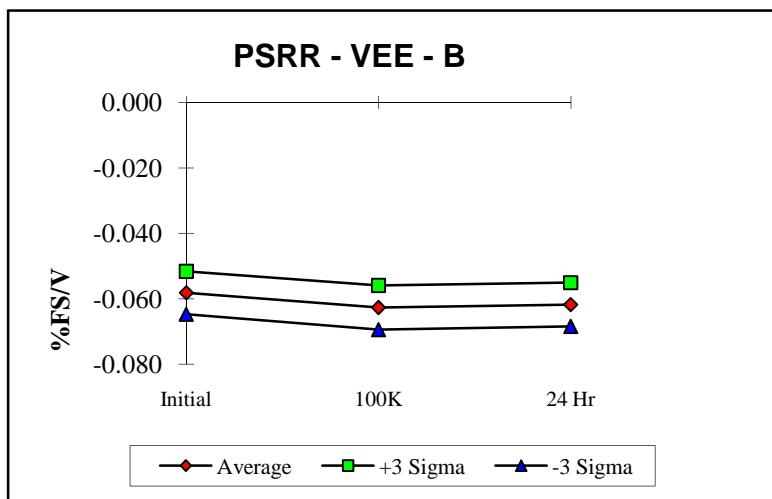
T# 110	+INL A		LSB
SN	Initial	100K	24 Hr
16	**2.055**	**2.260**	**2.043**
32	2.181	2.559	2.465
33	1.731	1.840	1.983
35	2.843	2.489	2.935
36	2.436	2.446	2.529
37	2.420	2.808	3.023
45	2.120	2.234	2.636
46	3.143	2.812	3.185
47	2.753	2.838	3.478
48	3.215	3.539	3.531
49	1.772	1.647	1.968
Min	1.731	1.647	1.968
Max	3.215	3.539	3.531
Std Dev	0.524	0.540	0.555
Average	2.461	2.521	2.773
+3 Sigma	4.032	4.141	4.440
-3 Sigma	0.890	0.902	1.107

+INL Channel A
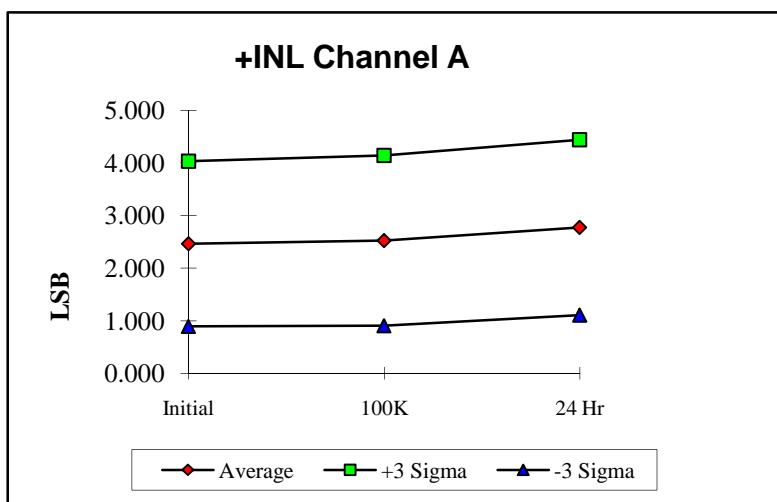
T# 111	-INL A		LSB
SN	Initial	100K	24 Hr
16	**-1.552**	**-1.656**	**-1.727**
32	-1.059	-1.125	-1.244
33	-2.066	-1.934	-2.045
35	-1.290	-1.755	-1.198
36	-0.953	-1.124	-1.282
37	-1.865	-1.712	-1.952
45	-1.136	-1.068	-1.455
46	-1.213	-1.192	-1.266
47	-1.238	-1.043	-0.955
48	-0.770	-0.871	-0.618
49	-1.716	-2.107	-1.916
Min	-2.066	-2.107	-2.045
Max	-0.770	-0.871	-0.618
Std Dev	0.417	0.437	0.459
Average	-1.331	-1.393	-1.393
+3 Sigma	-0.079	-0.081	-0.016
-3 Sigma	-2.582	-2.705	-2.770

-INL Channel A
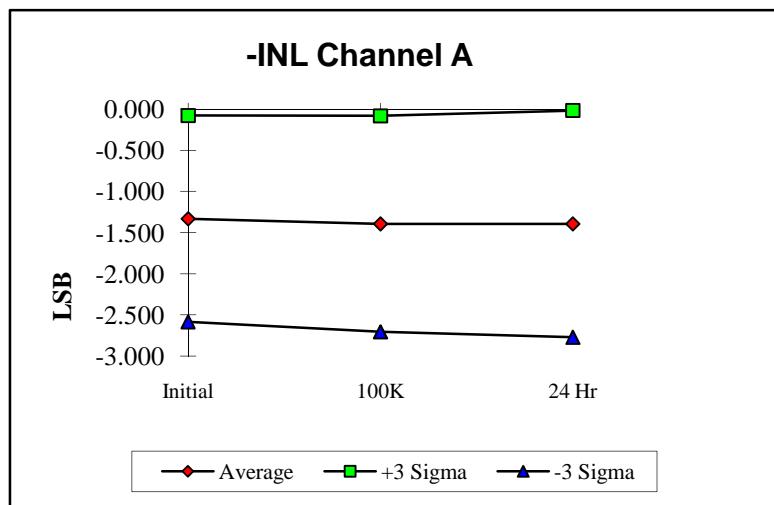
T# 112	+DNL A		LSB
SN	Initial	100K	24 Hr
16	**1.474**	**1.224**	**1.347**
32	1.201	1.140	1.118
33	1.427	1.378	1.359
35	2.337	2.016	2.024
36	1.495	1.275	1.390
37	1.343	1.327	1.400
45	0.830	0.824	0.787
46	1.983	1.717	1.427
47	2.186	1.956	1.920
48	1.516	1.364	1.415
49	1.281	1.516	1.454
Min	0.830	0.824	0.787
Max	2.337	2.016	2.024
Std Dev	0.470	0.365	0.352
Average	1.560	1.451	1.429
+3 Sigma	2.969	2.546	2.484
-3 Sigma	0.15108	0.35662	0.37465
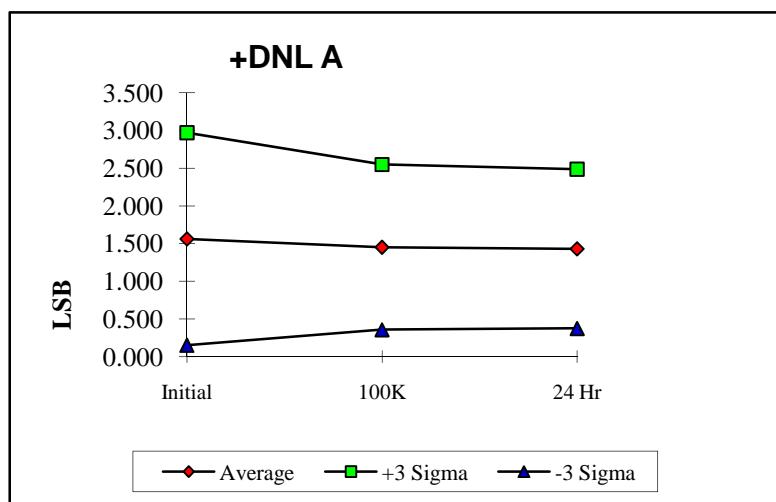
+DNL A

T# 113	-DNL A		LSB
SN	Initial	100K	24 Hr
16	**-2.041**	**-2.165**	**-2.293**
32	-1.560	-1.749	-1.895
33	-1.962	-2.138	-2.031
35	-1.300	-1.747	-1.614
36	-1.264	-1.736	-1.621
37	-1.669	-2.438	-2.615
45	-2.308	-2.564	-2.601
46	-2.281	-2.547	-2.711
47	-1.453	-1.935	-2.095
48	-1.872	-1.897	-2.095
49	-1.605	-1.746	-1.932
Min	-2.308	-2.564	-2.711
Max	-1.264	-1.736	-1.614
Std Dev	0.371	0.346	0.398
Average	-1.727	-2.050	-2.121
+3 Sigma	-0.614	-1.010	-0.927
-3 Sigma	-2.840	-3.089	-3.315

-DNL Channel A
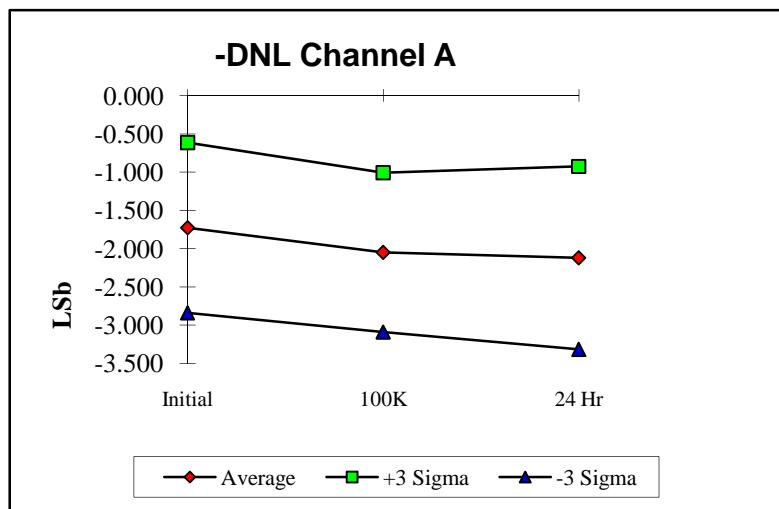
T# 120	+INL B		LSB
SN	Initial	100K	24 Hr
16	**4.678**	**4.462**	**4.584**
32	4.398	5.741	5.470
33	4.876	5.735	5.782
35	4.196	4.434	4.764
36	4.319	5.051	4.838
37	5.535	6.901	5.833
45	5.036	6.032	5.718
46	5.568	6.497	6.500
47	4.067	4.440	4.462
48	4.646	5.646	5.326
49	5.536	6.777	5.555
Min	4.067	4.434	4.462
Max	5.568	6.901	6.500
Std Dev	0.582	0.879	0.603
Average	4.818	5.725	5.425
+3 Sigma	6.564	8.363	7.234
-3 Sigma	3.072	3.088	3.616

+INL Channel B
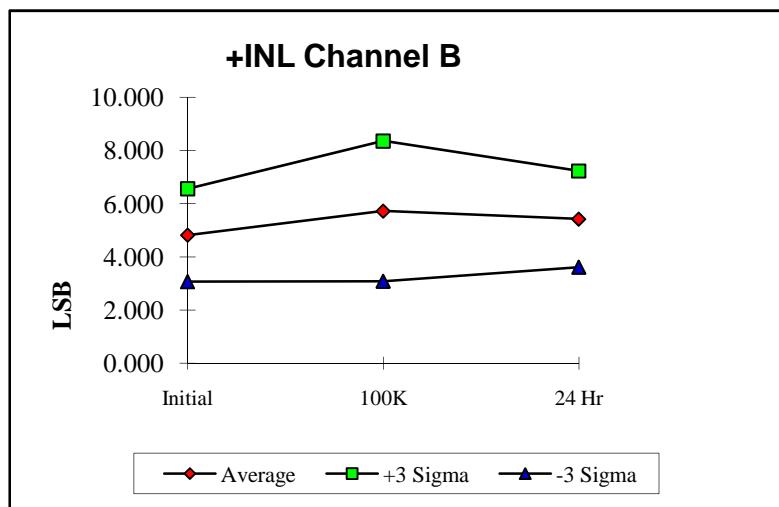
T# 121	-INL B		LSB
SN	Initial	100K	24 Hr
16	**-3.539**	**-2.930**	**-3.354**
32	-3.288	-3.415	-3.515
33	-3.825	-3.731	-3.962
35	-3.396	-3.222	-3.046
36	-2.873	-3.108	-3.004
37	-4.618	-4.292	-4.853
45	-4.334	-4.301	-4.561
46	-4.090	-3.862	-3.758
47	-2.306	-2.857	-2.692
48	-2.309	-2.048	-2.620
49	-5.082	-4.979	-5.492
Min	-5.082	-4.979	-5.492
Max	-2.306	-2.048	-2.620
Std Dev	0.947	0.839	0.970
Average	-3.612	-3.581	-3.750
+3 Sigma	-0.771	-1.064	-0.842
-3 Sigma	-6.453	-6.099	-6.659

-INL Channel B
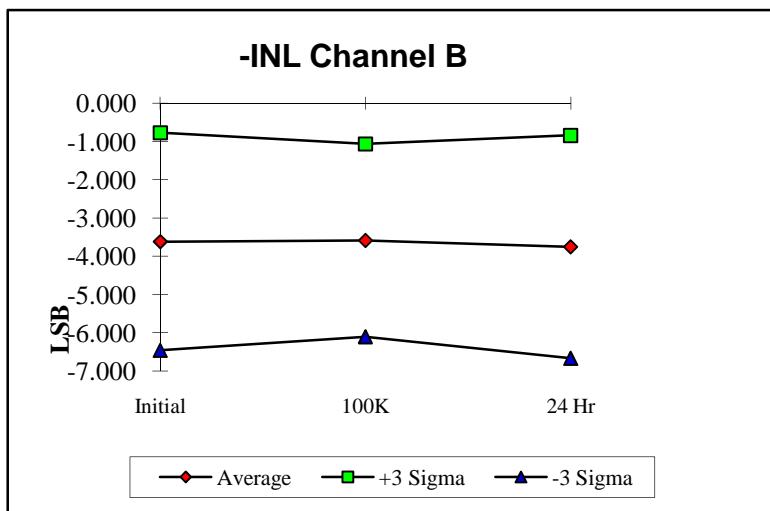
T# 122	+DNL B		LSB
SN	Initial	100K	24 Hr
16	1.325	1.330	1.325
32	1.681	1.617	1.590
33	3.419	3.244	3.475
35	3.699	3.755	3.762
36	1.980	1.884	2.000
37	5.467	5.464	5.658
45	4.956	4.836	4.922
46	2.843	2.715	2.679
47	1.289	1.445	1.411
48	1.494	1.479	1.780
49	4.525	4.521	4.580
Min	1.289	1.445	1.411
Max	5.467	5.464	5.658
Std Dev	1.517	1.500	1.521
Average	3.135	3.096	3.186
+3 Sigma	7.687	7.597	7.749
-3 Sigma	-1.416	-1.406	-1.378

+DNL Channel B
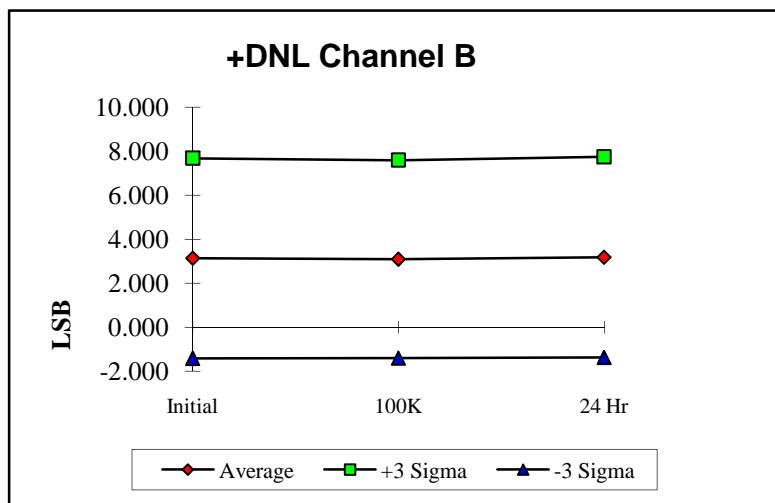
T# 123	-DNL B		LSB
SN	Initial	100K	24 Hr
16	**-4.700**	**-4.444**	**-4.323**
32	-4.593	-4.912	-4.435
33	-4.235	-4.414	-4.559
35	-4.952	-4.900	-5.019
36	-3.412	-3.761	-3.645
37	-4.197	-4.200	-4.504
45	-4.206	-4.577	-4.614
46	-5.433	-5.310	-5.344
47	-3.855	-4.203	-4.110
48	-3.899	-4.039	-4.612
49	-4.257	-4.386	-4.698
Min	-5.433	-5.310	-5.344
Max	-3.412	-3.761	-3.645
Std Dev	0.574	0.464	0.461
Average	-4.304	-4.470	-4.554
+3 Sigma	-2.581	-3.077	-3.172
-3 Sigma	-6.027	-5.864	-5.936

-DNL Channel B
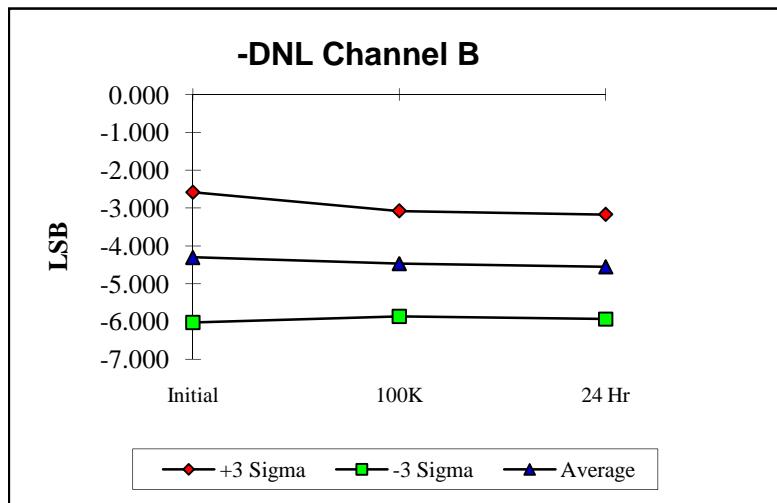
T# 370	THD A 20MHz		dB
SN	Initial	100K	24 Hr
16	**-66.521**	**-66.568**	**-66.215**
32	-66.275	-65.857	-66.212
33	-65.823	-65.664	-65.770
35	-65.939	-65.752	-65.789
36	-66.114	-65.925	-66.131
37	-66.219	-64.341	-65.161
45	-66.487	-63.793	-65.318
46	-66.195	-64.450	-65.861
47	-66.780	-64.612	-65.700
48	-66.168	-64.165	-65.329
49	-65.776	-64.488	-65.755
Min	-66.780	-65.925	-66.212
Max	-65.776	-63.793	-65.161
Std Dev	0.302	0.803	0.344
Average	-66.178	-64.905	-65.702
+3 Sigma	-65.273	-62.495	-64.671
-3 Sigma	-67.083	-67.315	-66.734

THD Channel A (20MHz)
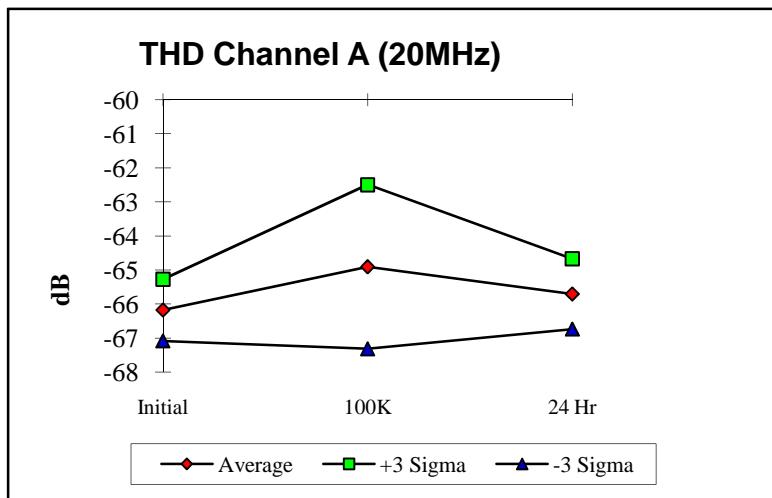
T# 373	SFDR-Span A		dB
SN	Initial	100K	24 Hr
16	91.605	90.365	90.792
32	90.384	90.963	90.898
33	90.428	90.602	90.818
35	90.576	90.208	91.205
36	91.500	90.894	90.773
37	90.570	88.136	90.518
45	91.167	86.128	90.581
46	90.702	86.264	90.724
47	90.226	87.325	90.399
48	90.770	86.755	90.266
49	90.422	89.249	90.456
Min	90.226	86.128	90.266
Max	91.500	90.963	91.205
Std Dev	0.389	1.962	0.276
Average	90.674	88.652	90.664
+3 Sigma	91.842	94.538	91.493
-3 Sigma	89.506	82.767	89.835

SFDR Span A
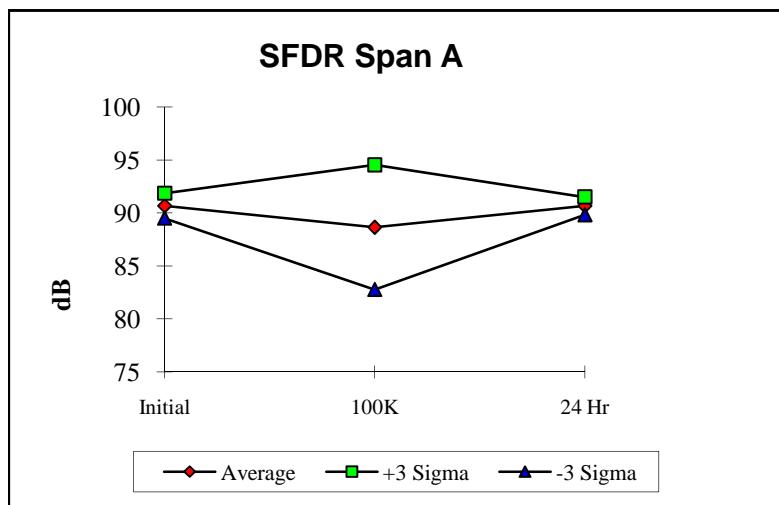
T# 374	SFDR Nyquist A		dB
SN	Initial	100K	24 Hr
16	**70.070**	**70.150**	**69.529**
32	69.402	**69.241**	69.809
33	69.008	69.158	69.213
35	69.005	68.995	68.964
36	69.508	69.543	69.767
37	69.684	65.994	67.777
45	70.278	65.485	67.983
46	69.991	66.910	69.607
47	70.577	66.633	68.582
48	69.557	66.505	68.348
49	68.780	66.084	68.645
Min	68.780	65.485	67.777
Max	70.577	69.543	69.809
Std Dev	0.577	1.584	0.726
Average	69.579	67.455	68.870
+3 Sigma	71.310	72.208	71.047
-3 Sigma	67.848	62.701	66.692

SFDR Nyquist Channel A
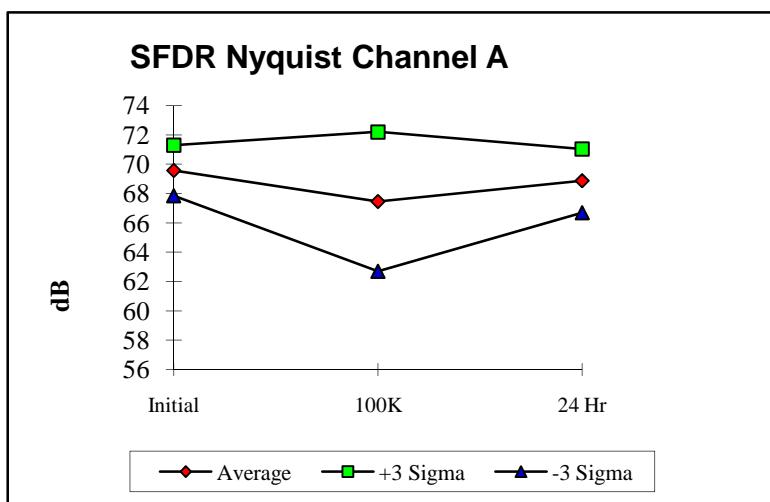
T# 380	THD B (20MHz)		dB
SN	Initial	100K	24 Hr
16	-69.334	-69.745	-69.723
32	-70.045	-69.874	-69.614
33	-69.271	-69.387	-69.429
35	-70.081	-69.960	-69.833
36	-70.152	-69.755	-69.903
37	-70.444	-64.883	-68.067
45	-70.226	-65.217	-68.558
46	-69.877	-65.532	-68.675
47	-70.685	-66.458	-68.922
48	-69.510	-65.402	-67.841
49	-69.554	-67.442	-68.891
Min	-70.685	-69.960	-69.903
Max	-69.271	-64.883	-67.841
Std Dev	0.439	2.151	0.715
Average	-69.984	-67.391	-68.973
+3 Sigma	-68.669	-60.938	-66.829
-3 Sigma	-71.300	-73.844	-71.117

THD Channel B (20MHz)
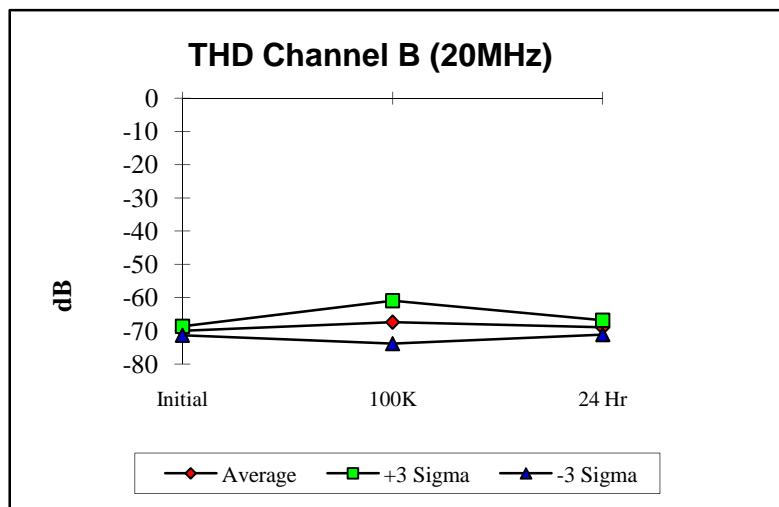
T# 383	SFDR - Span B		dB
SN	Initial	100K	24 Hr
16	**92.559**	**93.106**	**92.772**
32	92.999	92.168	92.244
33	91.594	91.854	91.011
35	93.337	92.002	91.680
36	93.174	91.769	91.682
37	92.308	87.062	92.983
45	91.575	85.907	90.959
46	93.094	85.873	91.554
47	92.787	86.263	92.415
48	92.899	86.178	93.172
49	92.935	89.135	92.922
Min	91.575	85.873	90.959
Max	93.337	92.168	93.172
Std Dev	0.633	2.850	0.806
Average	92.670	88.821	92.062
+3 Sigma	94.571	97.372	94.481
-3 Sigma	90.770	80.270	89.644

SFDR Span Channel B
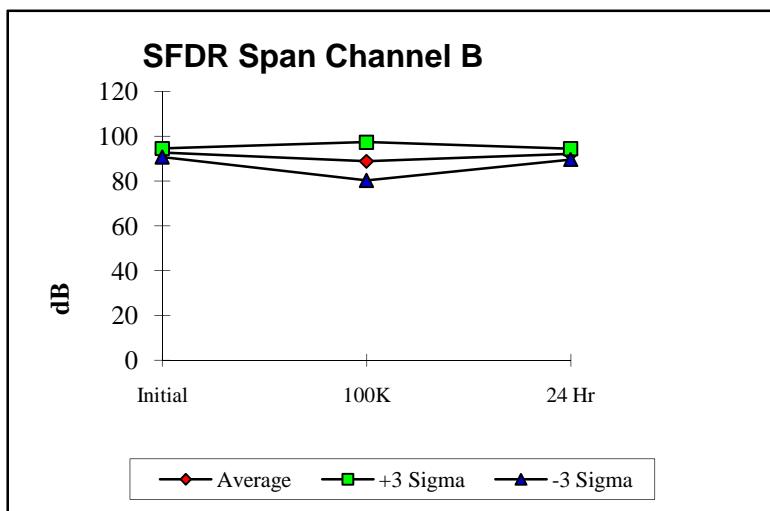
T# 384	SFDR - Nyquist B		dB
SN	Initial	100K	24 Hr
16	**72.691**	**72.715**	**72.788**
32	73.188	72.493	72.748
33	72.478	71.702	72.257
35	73.384	73.203	73.535
36	72.547	72.094	72.334
37	73.189	66.117	71.515
45	73.048	67.386	72.855
46	72.724	67.249	72.491
47	73.673	69.258	72.935
48	72.757	68.736	71.492
49	72.571	69.880	72.817
Min	72.478	66.117	71.492
Max	73.673	73.203	73.535
Std Dev	0.402	2.473	0.634
Average	72.956	69.812	72.498
+3 Sigma	74.161	77.231	74.401
-3 Sigma	71.751	62.392	70.595

SFDR - Nyquist Channel B
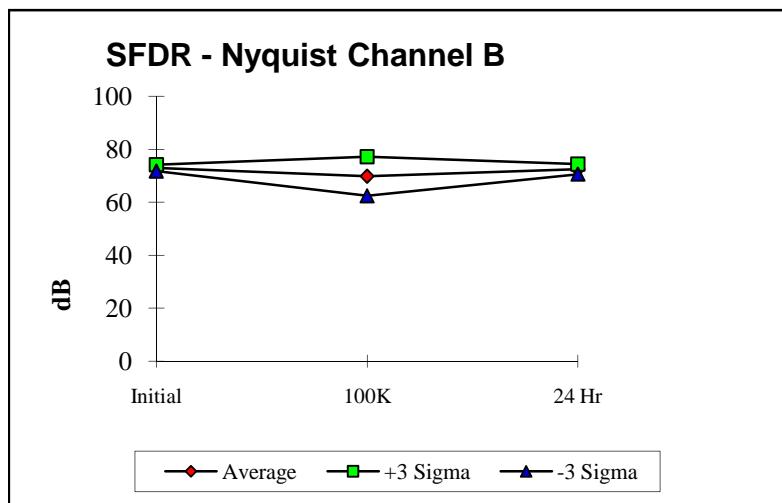
T# 500	IIL Bit 0		uA
SN	Initial	100K	24 Hr
16	**0.026**	**0.025**	**0.023**
32	0.024	0.025	0.023
33	0.027	0.026	0.026
35	0.023	0.023	0.026
36	0.025	0.023	0.021
37	0.025	0.027	0.024
45	0.024	0.025	0.023
46	0.025	0.024	0.024
47	0.024	0.024	0.022
48	0.025	0.024	0.022
49	0.023	0.025	0.023
Min	0.023	0.023	0.021
Max	0.027	0.027	0.026
Std Dev	0.001	0.001	0.001
Average	0.024	0.024	0.024
+3 Sigma	0.028	0.029	0.028
-3 Sigma	0.020	0.020	0.019
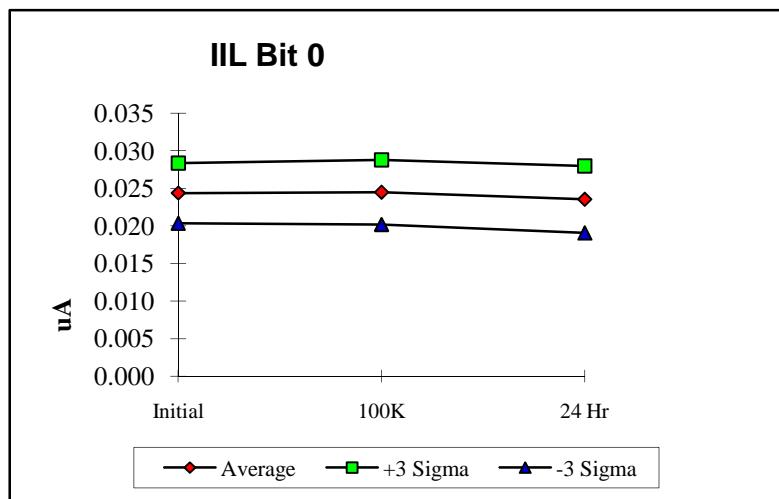
IIL Bit 0

T# 501	IIL Bit 1		uA
SN	Initial	100K	24 Hr
16	0.025	0.024	0.026
32	0.026	0.025	0.023
33	0.025	0.024	0.024
35	0.026	0.026	0.026
36	0.026	0.024	0.024
37	0.025	0.024	0.023
45	0.023	0.025	0.023
46	0.024	0.024	0.024
47	0.026	0.024	0.024
48	0.025	0.026	0.024
49	0.026	0.024	0.021
Min	0.023	0.024	0.021
Max	0.026	0.026	0.026
Std Dev	0.001	0.001	0.001
Average	0.025	0.024	0.024
+3 Sigma	0.029	0.027	0.028
-3 Sigma	0.022	0.022	0.020
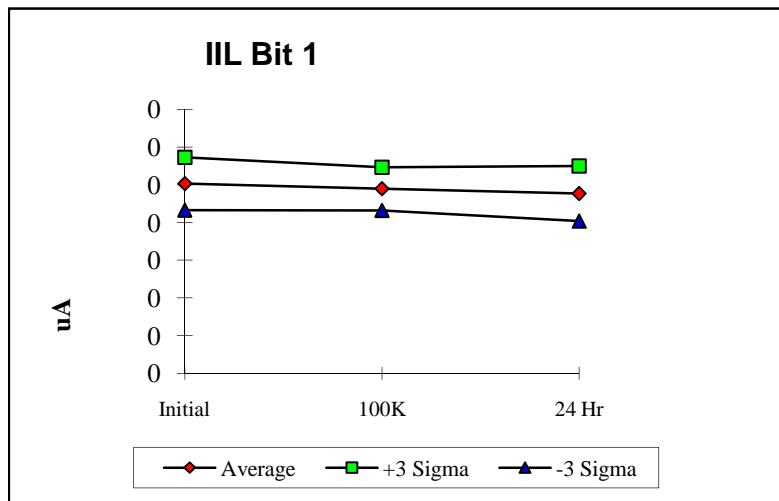
IIL Bit 1

T# 502	IIL Bit 2		uA
SN	Initial	100K	24 Hr
16	**0.024**	**0.024**	**0.024**
32	0.026	0.026	0.023
33	0.024	0.024	0.024
35	0.025	0.027	0.023
36	0.024	0.026	0.024
37	0.024	0.026	0.023
45	0.023	0.025	0.023
46	0.025	0.025	0.027
47	0.023	0.025	0.027
48	0.024	0.025	0.023
49	0.023	0.024	0.024
Min	0.023	0.024	0.023
Max	0.026	0.027	0.027
Std Dev	0.001	0.001	0.001
Average	0.024	0.025	0.024
+3 Sigma	0.027	0.028	0.028
-3 Sigma	0.021	0.022	0.020
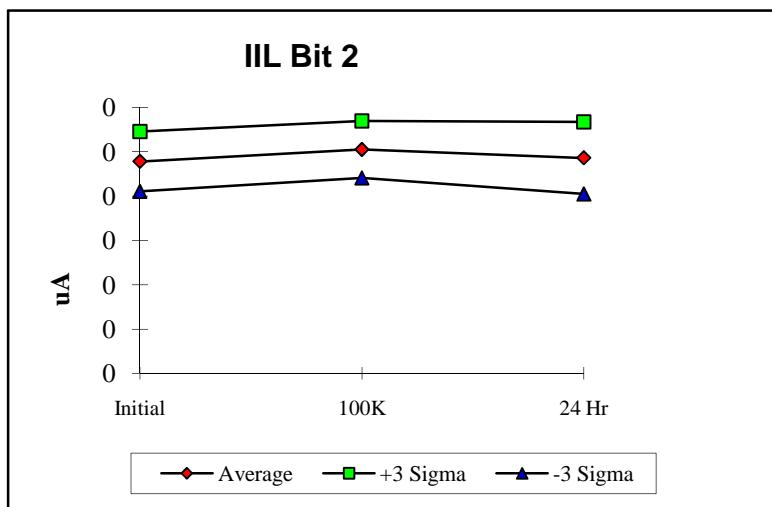
IIL Bit 2

T# 503	IIL Bit 3		uA
SN	Initial	100K	24 Hr
16	**0.026**	**0.023**	**0.024**
32	0.025	0.026	0.023
33	0.024	0.024	0.024
35	0.024	0.025	0.024
36	0.024	0.026	0.023
37	0.023	0.024	0.023
45	0.026	0.026	0.026
46	0.024	0.026	0.027
47	0.027	0.024	0.024
48	0.024	0.025	0.024
49	0.024	0.023	0.026
Min	0.023	0.023	0.023
Max	0.027	0.026	0.027
Std Dev	0.001	0.001	0.001
Average	0.024	0.025	0.025
+3 Sigma	0.028	0.029	0.028
-3 Sigma	0.020	0.021	0.021
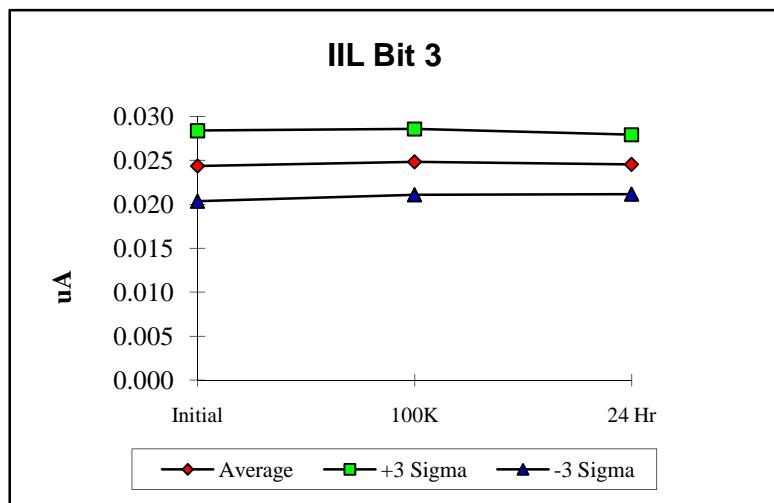
T# 504	IIL Bit 4		uA
SN	Initial	100K	24 Hr
16	**-0.013**	**-0.013**	**-0.012**
32	-0.010	-0.011	-0.013
33	-0.010	-0.010	-0.011
35	-0.011	-0.010	-0.012
36	-0.010	-0.009	-0.011
37	-0.013	-0.011	-0.010
45	-0.011	-0.013	-0.013
46	-0.011	-0.011	-0.012
47	-0.011	-0.013	-0.013
48	-0.009	-0.009	-0.012
49	-0.011	-0.013	-0.013
Min	-0.013	-0.013	-0.013
Max	-0.009	-0.009	-0.010
Std Dev	0.001	0.001	0.001
Average	-0.011	-0.011	-0.012
+3 Sigma	-0.008	-0.007	-0.009
-3 Sigma	-0.014	-0.015	-0.016

\#
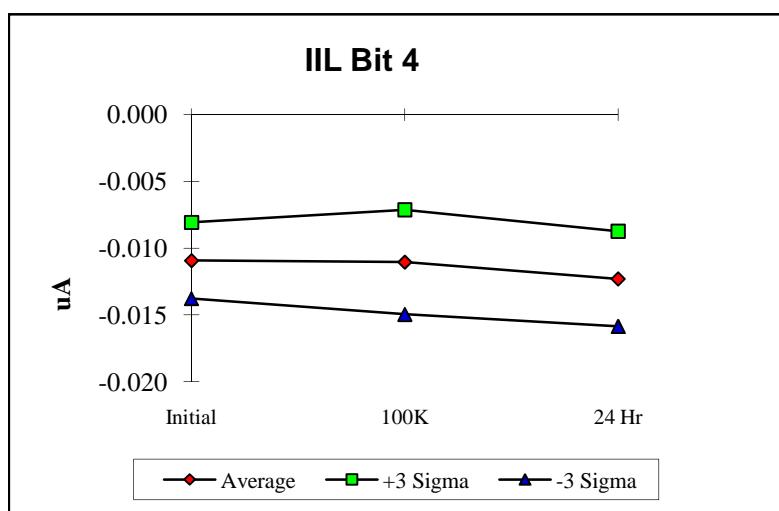
IIL Bit 4

T# 505	IIL Bit 5		uA
SN	Initial	100K	24 Hr
16	**-0.013**	**-0.013**	**-0.011**
32	-0.009	-0.010	-0.013
33	-0.011	-0.011	-0.012
35	-0.011	-0.013	-0.011
36	-0.010	-0.009	-0.012
37	-0.011	-0.011	-0.011
45	-0.008	-0.011	-0.013
46	-0.009	-0.010	-0.012
47	-0.010	-0.010	-0.012
48	-0.011	-0.013	-0.011
49	-0.011	-0.013	-0.012
Min	-0.011	-0.013	-0.013
Max	-0.008	-0.009	-0.011
Std Dev	0.001	0.001	0.001
Average	-0.010	-0.011	-0.012
+3 Sigma	-0.007	-0.008	-0.010
-3 Sigma	-0.014	-0.015	-0.015
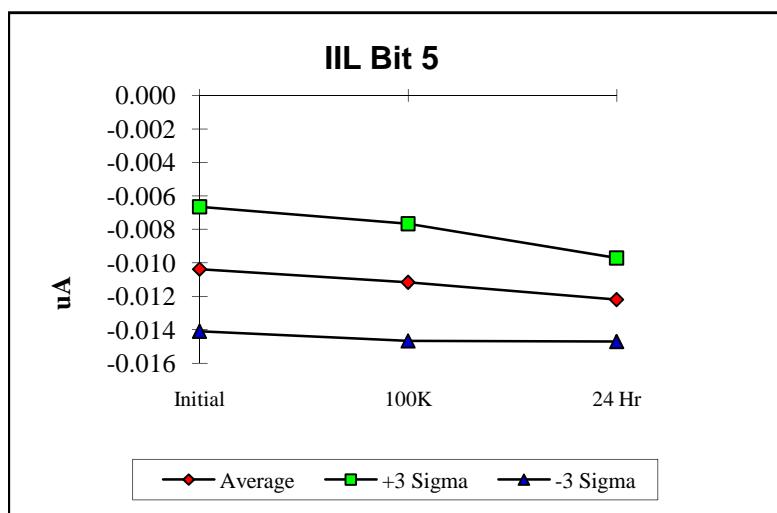
IIL Bit 5

T# 506	IIL Bit 6		uA
SN	Initial	100K	24 Hr
16	-0.008	-0.011	-0.012
32	-0.011	-0.010	-0.012
33	-0.010	-0.010	-0.010
35	-0.013	-0.009	-0.012
36	-0.010	-0.010	-0.011
37	-0.011	-0.010	-0.012
45	-0.011	-0.010	-0.010
46	-0.011	-0.013	-0.012
47	-0.011	-0.009	-0.010
48	-0.008	-0.013	-0.010
49	-0.013	-0.009	-0.012
Min	-0.013	-0.013	-0.012
Max	-0.008	-0.009	-0.010
Std Dev	0.001	0.001	0.001
Average	-0.011	-0.010	-0.011
+3 Sigma	-0.007	-0.007	-0.008
-3 Sigma	-0.015	-0.014	-0.015
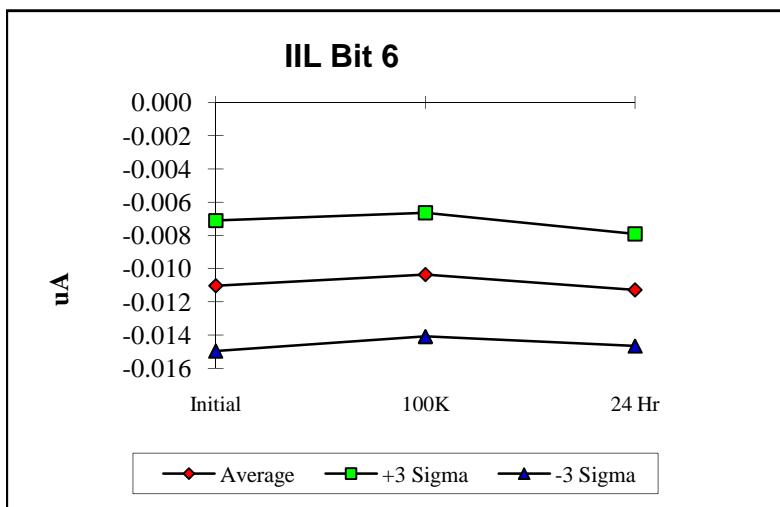
IIL Bit 6

T# 507	IIL Bit 7		uA
SN	Initial	100K	24 Hr
16	-0.010	-0.010	-0.012
32	-0.010	-0.013	-0.015
33	-0.011	-0.009	-0.012
35	-0.010	-0.013	-0.011
36	-0.013	-0.013	-0.013
37	-0.010	-0.011	-0.013
45	-0.010	-0.011	-0.012
46	-0.011	-0.011	-0.013
47	-0.011	-0.009	-0.011
48	-0.011	-0.010	-0.011
49	-0.010	-0.010	-0.012
Min	-0.013	-0.013	-0.015
Max	-0.010	-0.009	-0.011
Std Dev	0.001	0.001	0.001
Average	-0.011	-0.011	-0.013
+3 Sigma	-0.009	-0.007	-0.009
-3 Sigma	-0.0133	-0.01496	-0.01602
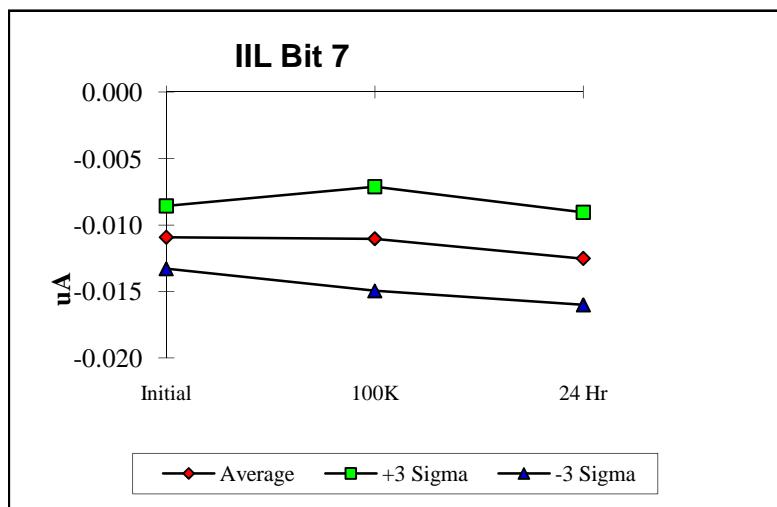
T# 508	IIL Bit 8		uA
SN	Initial	100K	24 Hr
16	0.024	0.025	0.026
32	0.024	0.022	0.023
33	0.023	0.024	0.026
35	0.028	0.029	0.025
36	0.025	0.025	0.025
37	0.023	0.024	0.026
45	0.027	0.027	0.023
46	0.028	0.025	0.027
47	0.024	0.024	0.027
48	0.025	0.027	0.026
49	0.022	0.027	0.026
Min	0.022	0.022	0.023
Max	0.028	0.029	0.027
Std Dev	0.002	0.002	0.001
Average	0.025	0.025	0.025
+3 Sigma	0.031	0.031	0.029
-3 Sigma	0.019	0.020	0.022
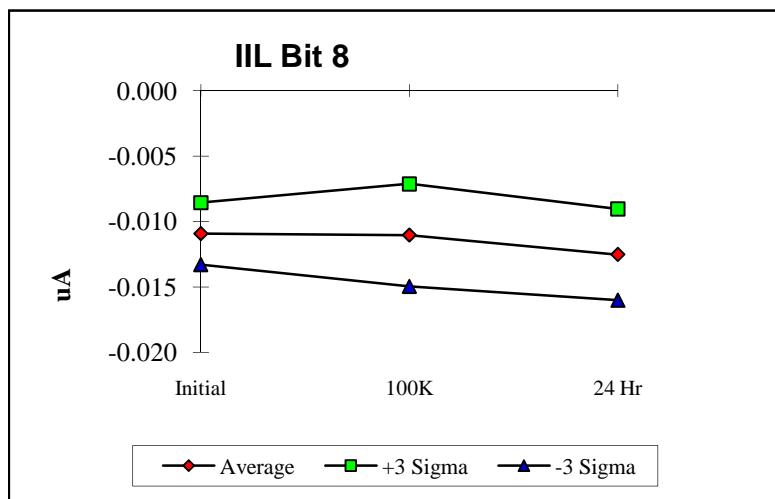
IIL Bit 8

T# 509	IIL Bit 9		uA
SN	Initial	100K	24 Hr
16	0.029	0.027	0.027
32	0.029	0.025	0.026
33	0.028	0.027	0.022
35	0.027	0.028	0.023
36	0.027	0.023	0.022
37	0.027	0.025	0.025
45	0.027	0.027	0.023
46	0.025	0.029	0.026
47	0.023	0.022	0.026
48	0.025	0.028	0.026
49	0.027	0.027	0.026
Min	0.023	0.022	0.022
Max	0.029	0.029	0.026
Std Dev	0.001	0.002	0.001
Average	0.026	0.026	0.024
+3 Sigma	0.031	0.032	0.029
-3 Sigma	0.022	0.020	0.020

IIL Bit 9
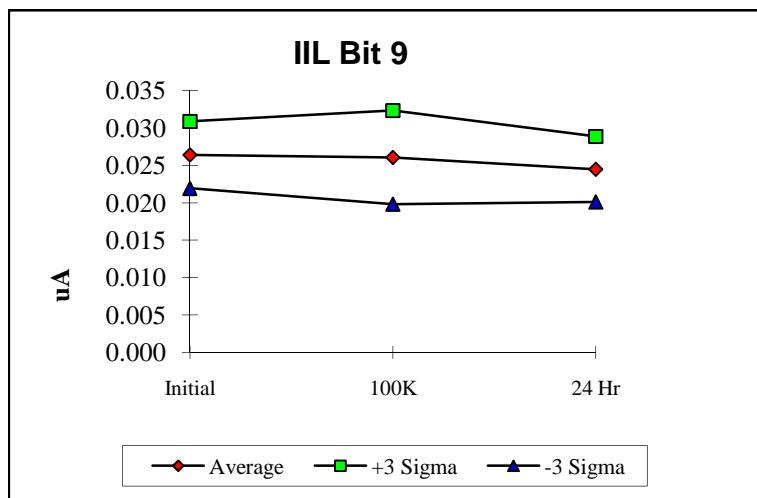
T# 510	IIL Bit 10		uA
SN	Initial	100K	24 Hr
16	**0.027**	**0.024**	**0.027**
32	0.025	0.025	0.026
33	0.025	0.025	0.023
35	0.023	0.024	0.025
36	0.029	0.024	0.023
37	0.025	0.024	0.026
45	0.024	0.027	0.027
46	0.028	0.028	0.025
47	0.027	0.024	0.027
48	0.025	0.028	0.026
49	0.025	0.027	0.025
Min	0.023	0.024	0.023
Max	0.029	0.028	0.027
Std Dev	0.002	0.001	0.001
Average	0.026	0.026	0.025
+3 Sigma	0.031	0.030	0.029
-3 Sigma	0.021	0.022	0.021
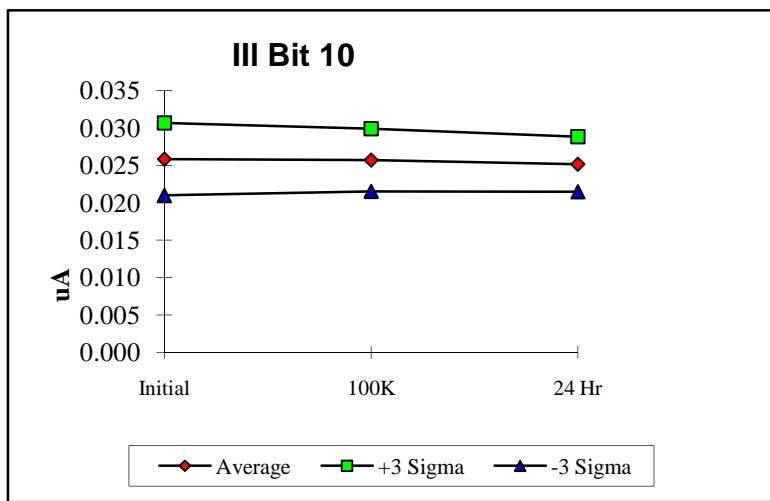
III Bit 10

T# 511	IIL Bit 11		uA
SN	Initial	100K	24 Hr
16	0.025	0.028	0.027
32	0.025	0.028	0.025
33	0.027	0.025	0.025
35	0.023	0.027	0.025
36	0.028	0.027	0.025
37	0.027	0.025	0.028
45	0.023	0.024	0.026
46	0.025	0.027	0.026
47	0.027	0.027	0.027
48	0.027	0.029	0.025
49	0.027	0.025	0.026
Min	0.023	0.024	0.025
Max	0.028	0.029	0.028
Std Dev	0.002	0.001	0.001
Average	0.026	0.026	0.025
+3 Sigma	0.030	0.030	0.029
-3 Sigma	0.021	0.023	0.022

Ill Bit 11
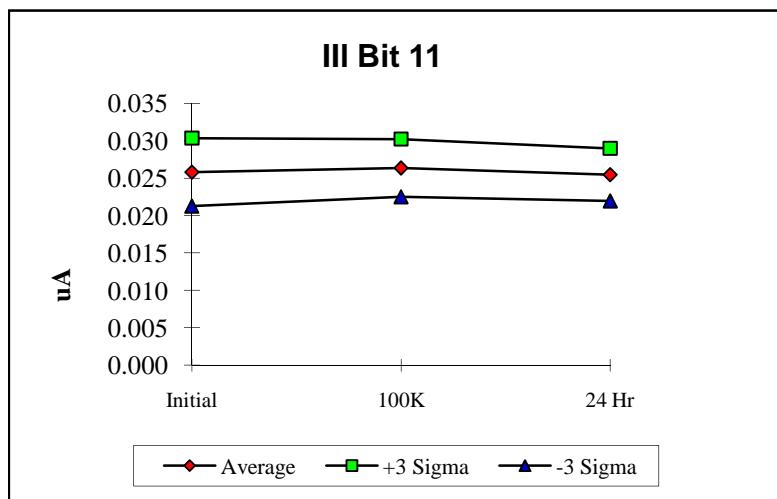
T# 512	IIL Bit 12		uA
SN	Initial	100K	24 Hr
16	**-0.009**	**-0.005**	**-0.009**
32	-0.010	-0.008	-0.008
33	-0.008	-0.009	-0.009
35	-0.007	-0.008	-0.009
36	-0.008	-0.010	-0.009
37	-0.010	-0.010	-0.006
45	-0.008	-0.010	-0.008
46	-0.009	-0.009	-0.008
47	-0.009	-0.008	-0.009
48	-0.010	-0.008	-0.009
49	-0.009	-0.008	-0.010
Min	-0.010	-0.010	-0.010
Max	-0.007	-0.008	-0.006
Std Dev	0.001	0.001	0.001
Average	-0.009	-0.009	-0.008
+3 Sigma	-0.005	-0.006	-0.005
-3 Sigma	-0.012	-0.012	-0.011

Ill Bit 12
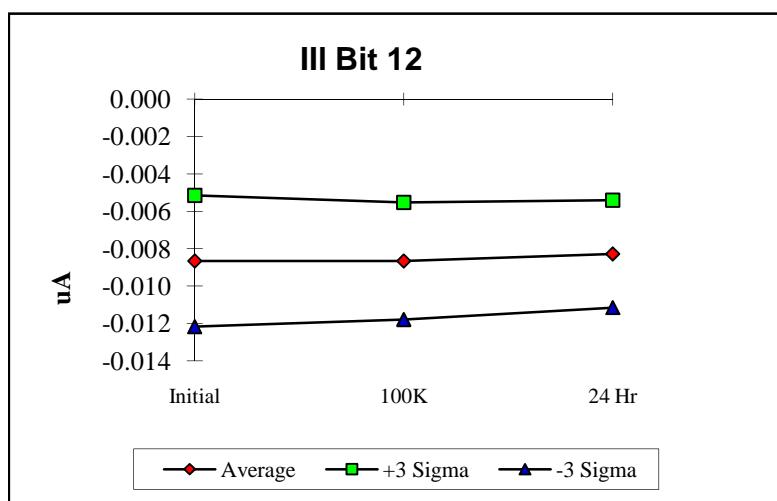
T# 513	IIL Bit 13		uA
SN	Initial	100K	24 Hr
16	**-0.010**	**-0.008**	**-0.008**
32	-0.010	-0.009	-0.008
33	-0.008	-0.007	-0.008
35	-0.009	-0.010	-0.008
36	-0.007	-0.008	-0.009
37	-0.007	-0.007	-0.005
45	-0.009	-0.009	-0.008
46	-0.008	-0.007	-0.009
47	-0.007	-0.007	-0.009
48	-0.010	-0.009	-0.008
49	-0.009	-0.011	-0.008
Min	-0.010	-0.011	-0.009
Max	-0.007	-0.007	-0.005
Std Dev	0.001	0.002	0.001
Average	-0.008	-0.008	-0.008
+3 Sigma	-0.004	-0.003	-0.005
-3 Sigma	-0.012	-0.013	-0.011
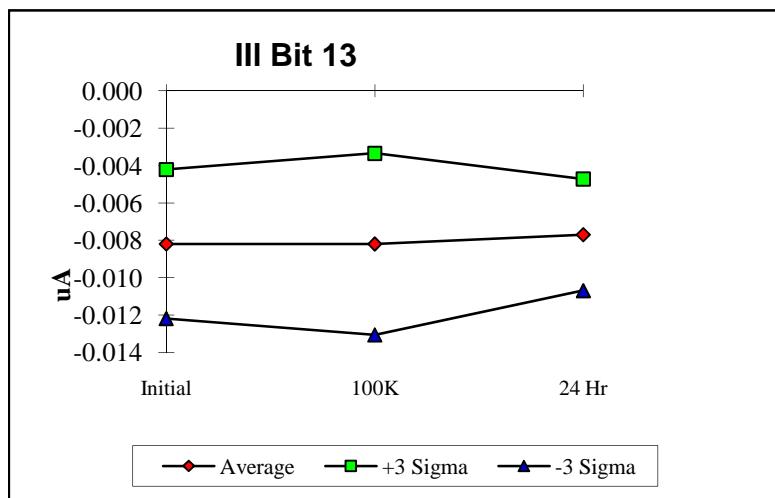
T# 514	IIL Bit 14		uA
SN	Initial	100K	24 Hr
16	**-0.007**	**-0.010**	**-0.006**
32	-0.010	-0.005	-0.009
33	-0.008	-0.007	-0.008
35	-0.009	-0.007	-0.009
36	-0.011	-0.008	-0.009
37	-0.008	-0.007	-0.009
45	-0.007	-0.007	-0.009
46	-0.009	-0.009	-0.010
47	-0.008	-0.007	-0.005
48	-0.010	-0.007	-0.010
49	-0.009	-0.008	-0.008
Min	-0.011	-0.009	-0.010
Max	-0.007	-0.005	-0.005
Std Dev	0.001	0.001	0.001
Average	-0.009	-0.007	-0.008
+3 Sigma	-0.005	-0.004	-0.004
-3 Sigma	-0.013	-0.010	-0.012
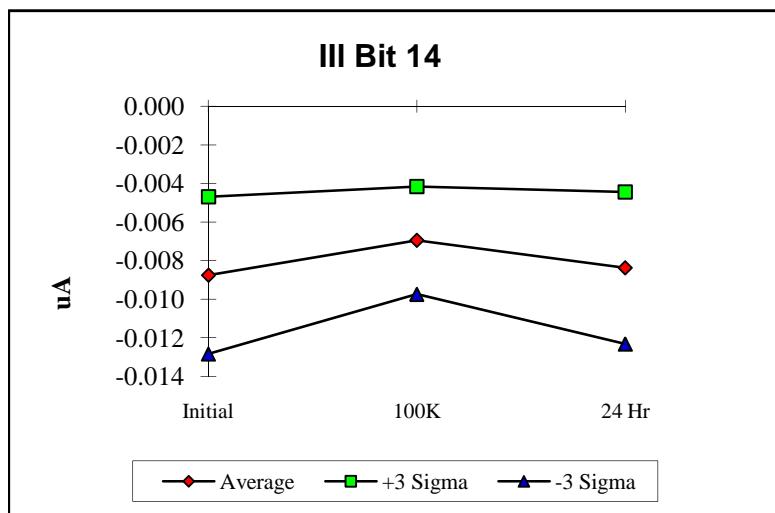
III Bit 14

T# 515	IIL Bit 15		uA
SN	Initial	100K	24 Hr
16	**-0.007**	**-0.008**	**-0.011**
32	-0.009	-0.007	-0.009
33	-0.009	-0.010	-0.005
35	-0.009	-0.009	-0.008
36	-0.008	-0.009	-0.011
37	-0.008	-0.007	-0.011
45	-0.008	-0.007	-0.009
46	-0.009	-0.007	-0.006
47	-0.007	-0.009	-0.005
48	-0.008	-0.007	-0.008
49	-0.008	-0.007	-0.005
Min	-0.009	-0.010	-0.011
Max	-0.007	-0.007	-0.005
Std Dev	0.001	0.001	0.002
Average	-0.008	-0.008	-0.008
+3 Sigma	-0.006	-0.004	-0.001
-3 Sigma	-0.010	-0.012	-0.014

III Bit 15
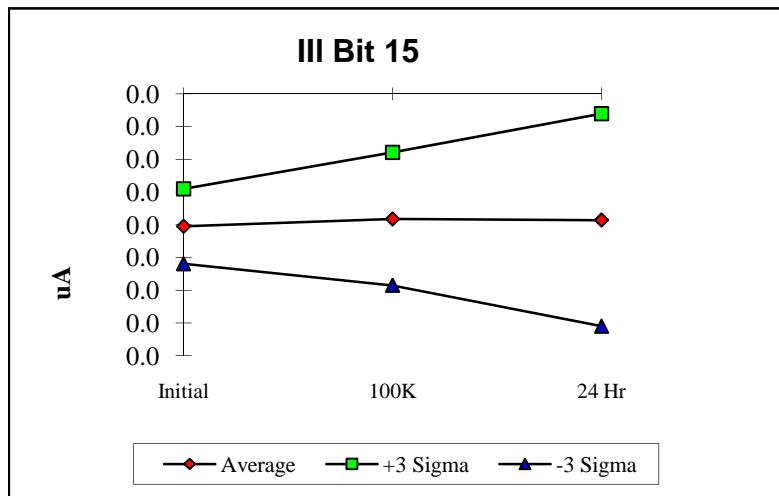
T# 516	IIL Clk		uA
SN	Initial	100K	24 Hr
16	0.021	0.021	0.018
32	0.021	0.019	0.019
33	0.020	0.019	0.019
35	0.019	0.020	0.018
36	0.019	0.017	0.019
37	0.020	0.019	0.019
45	0.020	0.020	0.020
46	0.020	0.019	0.020
47	0.019	0.020	0.019
48	0.021	0.020	0.019
49	0.020	0.021	0.019
Min	0.019	0.017	0.018
Max	0.021	0.021	0.020
Std Dev	0.001	0.001	0.001
Average	0.020	0.019	0.019
+3 Sigma	0.022	0.022	0.021
-3 Sigma	0.017	0.016	0.017
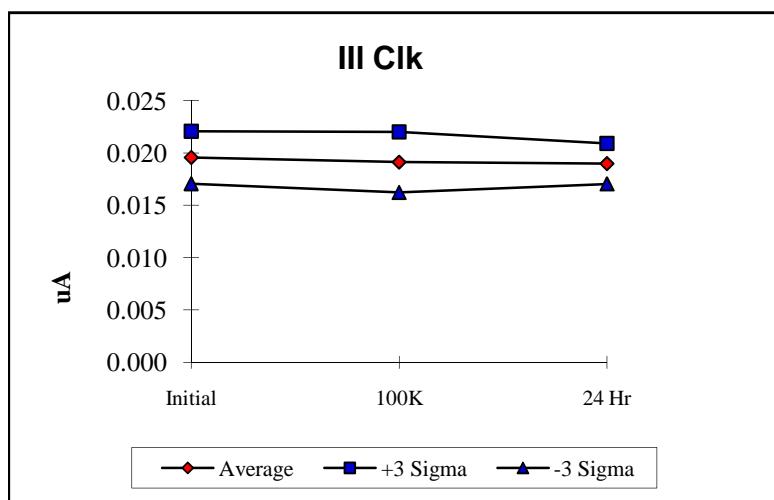
T# 520	IIH Bit 0		uA
SN	Initial	100K	24 Hr
16	0.029	0.028	0.027
32	0.029	0.028	0.026
33	0.028	0.027	0.026
35	0.028	0.029	0.026
36	0.029	0.027	0.025
37	0.027	0.027	0.028
45	0.027	0.027	0.027
46	0.028	0.029	0.027
47	0.027	0.027	0.027
48	0.027	0.029	0.026
49	0.027	0.027	0.026
Min	0.027	0.027	0.025
Max	0.029	0.029	0.028
Std Dev	0.001	0.001	0.001
Average	0.027	0.027	0.026
+3 Sigma	0.030	0.031	0.029
-3 Sigma	0.025	0.024	0.023
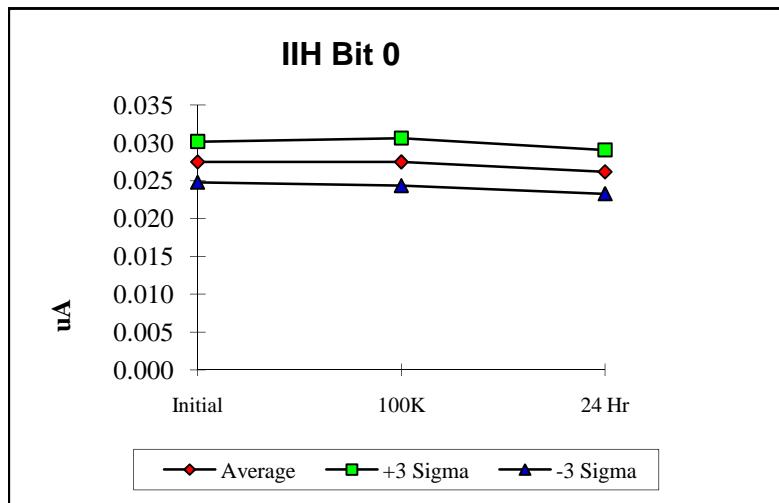
IIH Bit 0

T# 521	IIH Bit 1		uA
SN	Initial	100K	24 Hr
16	0.021	0.021	0.019
32	0.018	0.022	0.021
33	0.021	0.022	0.017
35	0.021	0.020	0.021
36	0.021	0.019	0.019
37	0.019	0.020	0.019
45	0.022	0.021	0.019
46	0.021	0.021	0.021
47	0.021	0.021	0.021
48	0.021	0.019	0.021
49	0.021	0.021	0.018
Min	0.018	0.019	0.017
Max	0.022	0.022	0.021
Std Dev	0.001	0.001	0.001
Average	0.021	0.021	0.020
+3 Sigma	0.025	0.024	0.023
-3 Sigma	0.017	0.017	0.016

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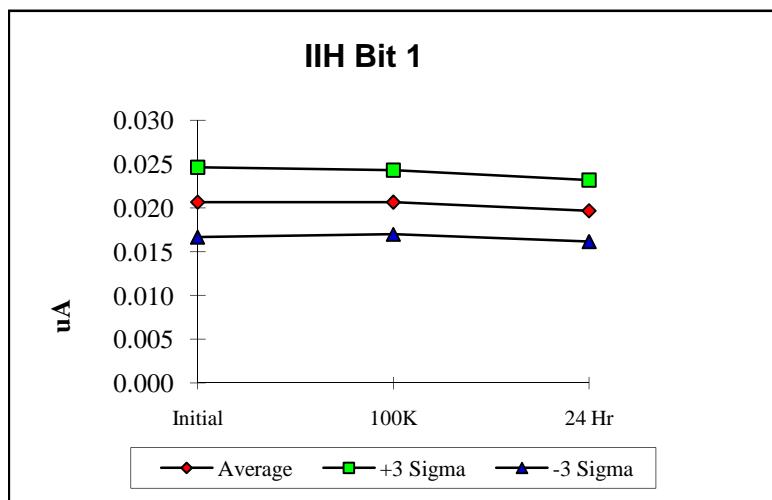
T# 522	IIH Bit 2		uA
SN	Initial	100K	24 Hr
16	**0.020**	**0.021**	**0.018**
32	0.019	0.020	0.018
33	0.020	0.021	0.019
35	0.020	0.019	0.019
36	0.020	0.020	0.021
37	0.021	0.017	0.022
45	0.021	0.020	0.019
46	0.018	0.020	0.022
47	0.021	0.020	0.021
48	0.020	0.018	0.019
49	0.020	0.021	0.021
Min	0.018	0.017	0.018
Max	0.021	0.021	0.022
Std Dev	0.001	0.001	0.001
Average	0.020	0.020	0.020
+3 Sigma	0.023	0.024	0.023
-3 Sigma	0.017	0.015	0.017
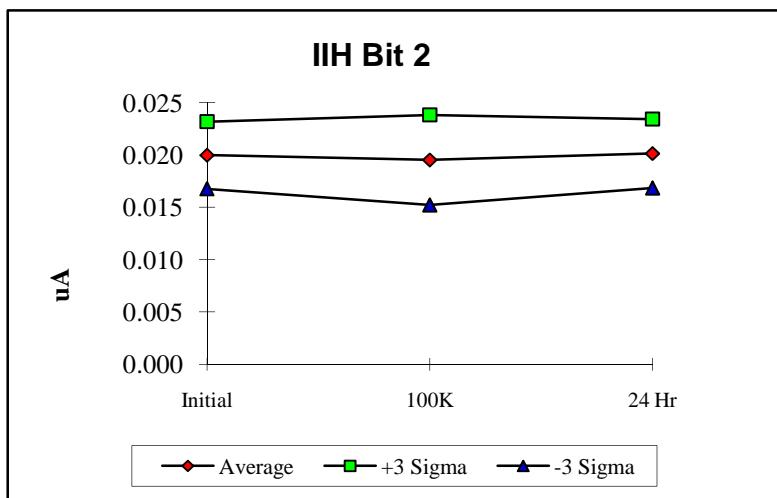
IIH Bit 2

T# 523	IIH Bit 3		uA
SN	Initial	100K	24 Hr
16	0.019	0.020	0.019
32	0.021	0.020	0.019
33	0.020	0.019	0.018
35	0.023	0.020	0.021
36	0.021	0.021	0.022
37	0.021	0.020	0.018
45	0.019	0.022	0.019
46	0.021	0.021	0.021
47	0.022	0.020	0.019
48	0.021	0.022	0.023
49	0.021	0.022	0.021
Min	0.019	0.019	0.018
Max	0.023	0.022	0.023
Std Dev	0.001	0.001	0.001
Average	0.021	0.021	0.020
+3 Sigma	0.025	0.024	0.024
-3 Sigma	0.018	0.017	0.016
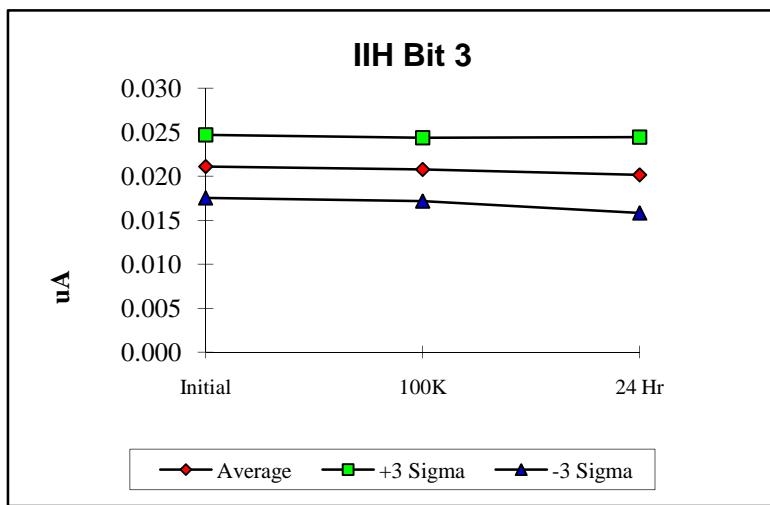
IIH Bit 3

T# 524	IIH Bit 4		uA
SN	Initial	100K	24 Hr
16	**-0.011**	**-0.008**	**-0.011**
32	-0.011	-0.009	-0.010
33	-0.010	-0.011	-0.010
35	-0.011	-0.010	-0.011
36	-0.010	-0.008	-0.010
37	-0.010	-0.008	-0.011
45	-0.011	-0.009	-0.011
46	-0.010	-0.010	-0.011
47	-0.013	-0.009	-0.012
48	-0.009	-0.011	-0.012
49	-0.010	-0.013	-0.010
Min	-0.013	-0.013	-0.012
Max	-0.009	-0.008	-0.010
Std Dev	0.001	0.002	0.001
Average	-0.011	-0.010	-0.011
+3 Sigma	-0.008	-0.005	-0.008
-3 Sigma	-0.014	-0.014	-0.013
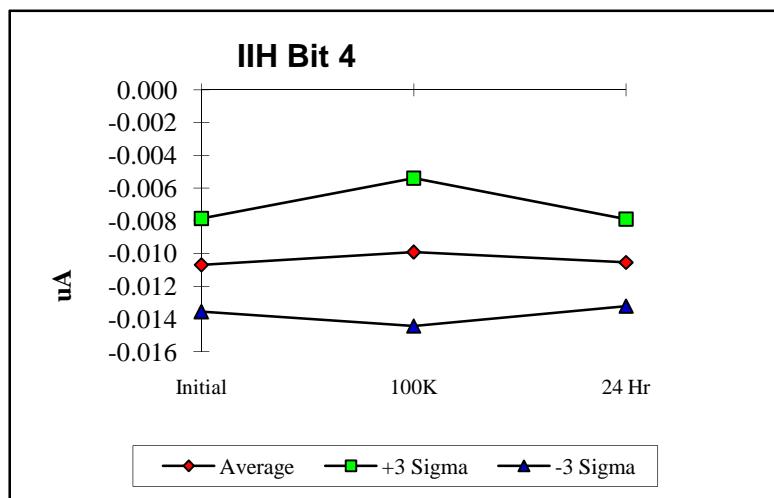
IIH Bit 4

T# 525	IIH Bit 5		uA
SN	Initial	100K	24 Hr
16	**-0.009**	**-0.009**	**-0.013**
32	-0.010	-0.010	-0.010
33	-0.011	-0.009	-0.010
35	-0.010	-0.009	-0.011
36	-0.010	-0.010	-0.010
37	-0.010	-0.009	-0.011
45	-0.010	-0.009	-0.011
46	-0.010	-0.011	-0.011
47	-0.009	-0.010	-0.009
48	-0.009	-0.011	-0.010
49	-0.010	-0.010	-0.011
Min	-0.011	-0.011	-0.011
Max	-0.009	-0.009	-0.009
Std Dev	0.001	0.001	0.001
Average	-0.010	-0.010	-0.010
+3 Sigma	-0.008	-0.007	-0.008
-3 Sigma	-0.012	-0.013	-0.012
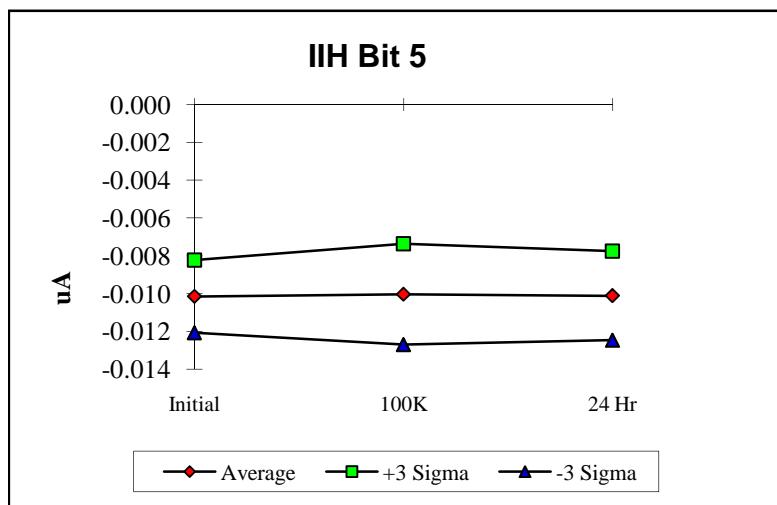
T# 526	IIH Bit 6		uA
SN	Initial	100K	24 Hr
16	**-0.010**	**-0.009**	**-0.010**
32	-0.009	-0.011	-0.009
33	-0.010	-0.008	-0.011
35	-0.011	-0.010	-0.013
36	-0.008	-0.008	-0.010
37	-0.009	-0.010	-0.009
45	-0.009	-0.008	-0.011
46	-0.010	-0.009	-0.012
47	-0.008	-0.010	-0.011
48	-0.010	-0.011	-0.010
49	-0.010	-0.009	-0.010
Min	-0.011	-0.011	-0.013
Max	-0.008	-0.008	-0.009
Std Dev	0.001	0.001	0.001
Average	-0.010	-0.010	-0.010
+3 Sigma	-0.006	-0.006	-0.006
-3 Sigma	-0.013	-0.014	-0.015
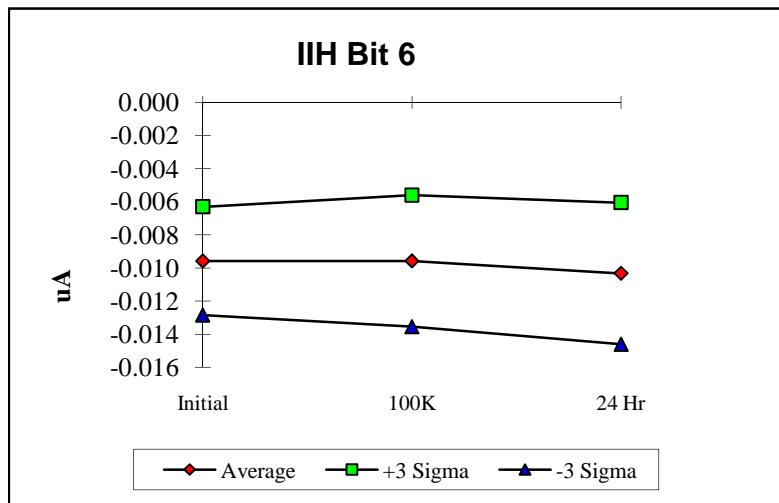
T# 527	IIH Bit 7		uA
SN	Initial	100K	24 Hr
16	**-0.010**	**-0.010**	**-0.013**
32	-0.009	-0.010	-0.012
33	-0.009	-0.011	-0.011
35	-0.011	-0.013	-0.011
36	-0.010	-0.013	-0.011
37	-0.011	-0.013	-0.011
45	-0.009	-0.009	-0.011
46	-0.010	-0.011	-0.010
47	-0.011	-0.010	-0.011
48	-0.010	-0.009	-0.010
49	-0.011	-0.011	-0.010
Min	-0.011	-0.013	-0.012
Max	-0.009	-0.009	-0.010
Std Dev	0.001	0.001	0.001
Average	-0.010	-0.011	-0.011
+3 Sigma	-0.007	-0.007	-0.008
-3 Sigma	-0.013	-0.015	-0.013
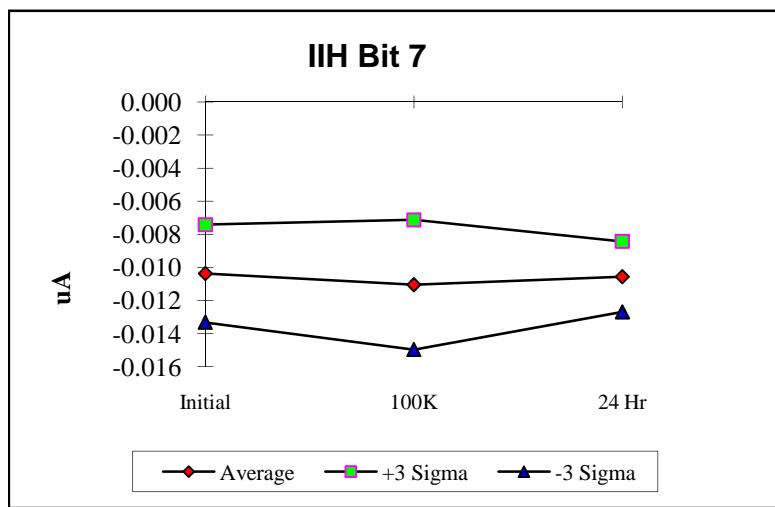
IIH Bit 7

T# 528	IIH Bit 8		uA
SN	Initial	100K	24 Hr
16	**0.022**	**0.020**	**0.021**
32	0.023	0.025	0.021
33	0.022	0.020	0.019
35	0.022	0.023	0.022
36	0.022	0.024	0.021
37	0.022	0.022	0.021
45	0.022	0.022	0.022
46	0.022	0.024	0.022
47	0.020	0.022	0.023
48	0.023	0.024	0.021
49	0.023	0.023	0.021
Min	0.020	0.020	0.019
Max	0.023	0.025	0.023
Std Dev	0.001	0.001	0.001
Average	0.022	0.023	0.021
+3 Sigma	0.024	0.027	0.025
-3 Sigma	0.020	0.019	0.018
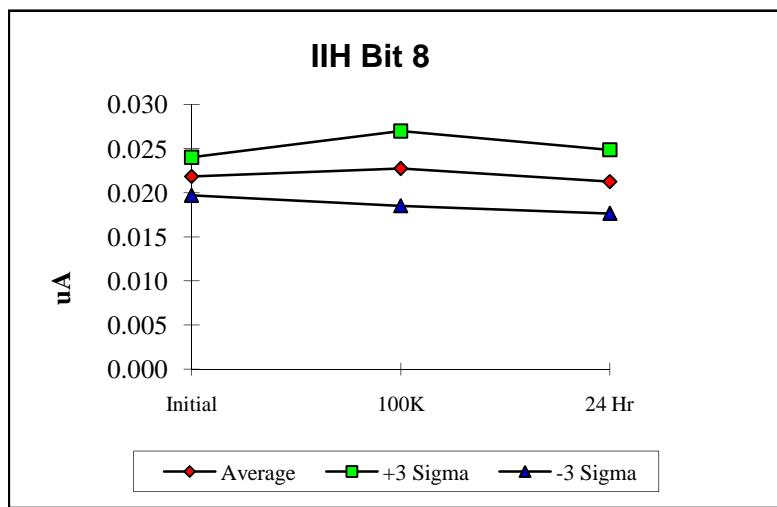
T# 529	IIH Bit 9		uA
SN	Initial	100K	24 Hr
16	0.022	0.022	0.021
32	0.023	0.022	0.022
33	0.022	0.022	0.022
35	0.022	0.023	0.023
36	0.023	0.023	0.022
37	0.022	0.024	0.022
45	0.025	0.024	0.020
46	0.026	0.020	0.022
47	0.022	0.025	0.022
48	0.024	0.023	0.022
49	0.020	0.024	0.022
Min	0.020	0.020	0.020
Max	0.026	0.025	0.023
Std Dev	0.002	0.001	0.001
Average	0.023	0.023	0.022
+3 Sigma	0.028	0.027	0.024
-3 Sigma	0.017	0.019	0.019
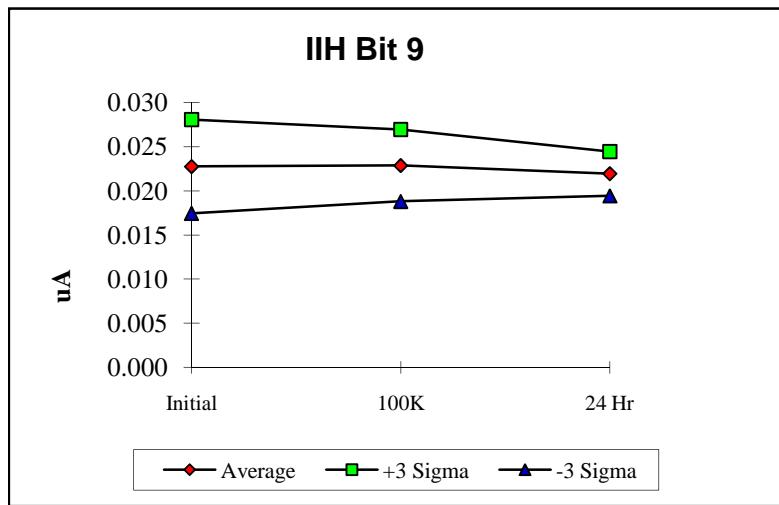
IIH Bit 9

T# 530	IIH Bit 10		uA
SN	Initial	100K	24 Hr
16	0.023	0.024	0.024
32	0.024	0.024	0.022
33	0.023	0.023	0.024
35	0.026	0.024	0.023
36	0.025	0.022	0.022
37	0.022	0.022	0.021
45	0.023	0.022	0.021
46	0.026	0.020	0.022
47	0.022	0.025	0.023
48	0.023	0.023	0.022
49	0.022	0.024	0.022
Min	0.022	0.020	0.021
Max	0.026	0.025	0.024
Std Dev	0.002	0.001	0.001
Average	0.023	0.023	0.022
+3 Sigma	0.029	0.027	0.025
-3 Sigma	0.018	0.019	0.019
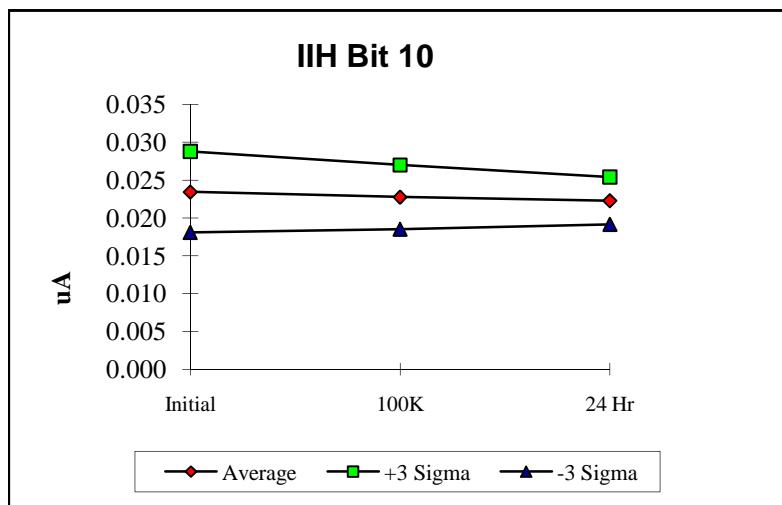
IIH Bit 10

T# 531	IIH Bit 11		uA
SN	Initial	100K	24 Hr
16	**0.023**	**0.020**	**0.020**
32	0.024	0.025	0.023
33	0.019	0.024	0.022
35	0.024	0.025	0.024
36	0.022	0.022	0.022
37	0.020	0.022	0.022
45	0.023	0.025	0.021
46	0.023	0.025	0.025
47	0.022	0.020	0.023
48	0.022	0.024	0.021
49	0.022	0.026	0.022
Min	0.019	0.020	0.021
Max	0.024	0.026	0.025
Std Dev	0.001	0.002	0.001
Average	0.022	0.024	0.023
+3 Sigma	0.026	0.029	0.027
-3 Sigma	0.018	0.018	0.018
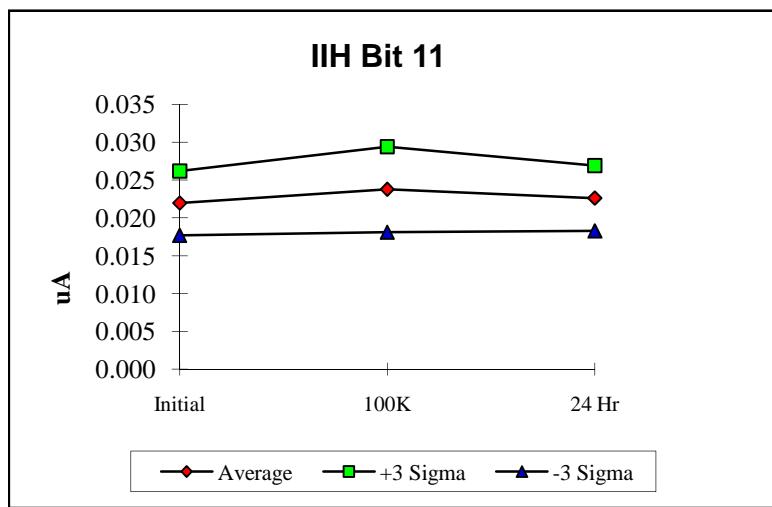
IIH Bit 11

T# 532	IIH Bit 12		uA
SN	Initial	100K	24 Hr
16	**-0.010**	**-0.008**	**-0.011**
32	-0.009	-0.010	-0.011
33	-0.009	-0.009	-0.008
35	-0.011	-0.009	-0.010
36	-0.010	-0.009	-0.008
37	-0.010	-0.011	-0.011
45	-0.010	-0.011	-0.009
46	-0.010	-0.009	-0.012
47	-0.010	-0.009	-0.010
48	-0.011	-0.011	-0.009
49	-0.009	-0.009	-0.009
Min	-0.011	-0.011	-0.012
Max	-0.009	-0.009	-0.008
Std Dev	0.001	0.001	0.002
Average	-0.010	-0.010	-0.010
+3 Sigma	-0.008	-0.007	-0.005
-3 Sigma	-0.013	-0.013	-0.014
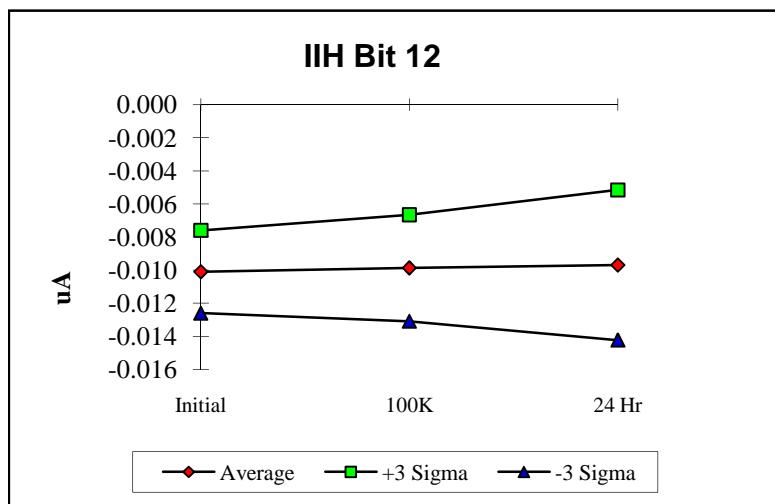
T# 533	IIH Bit 13		uA
SN	Initial	100K	24 Hr
16	-0.009	-0.010	-0.009
32	-0.010	-0.009	-0.011
33	-0.008	-0.010	-0.008
35	-0.010	-0.007	-0.010
36	-0.010	-0.010	-0.010
37	-0.010	-0.010	-0.010
45	-0.008	-0.010	-0.007
46	-0.011	-0.008	-0.009
47	-0.011	-0.007	-0.010
48	-0.009	-0.011	-0.010
49	-0.007	-0.009	-0.010
Min	-0.011	-0.011	-0.011
Max	-0.007	-0.007	-0.007
Std Dev	0.002	0.002	0.001
Average	-0.010	-0.009	-0.009
+3 Sigma	-0.005	-0.005	-0.005
-3 Sigma	-0.014	-0.014	-0.013
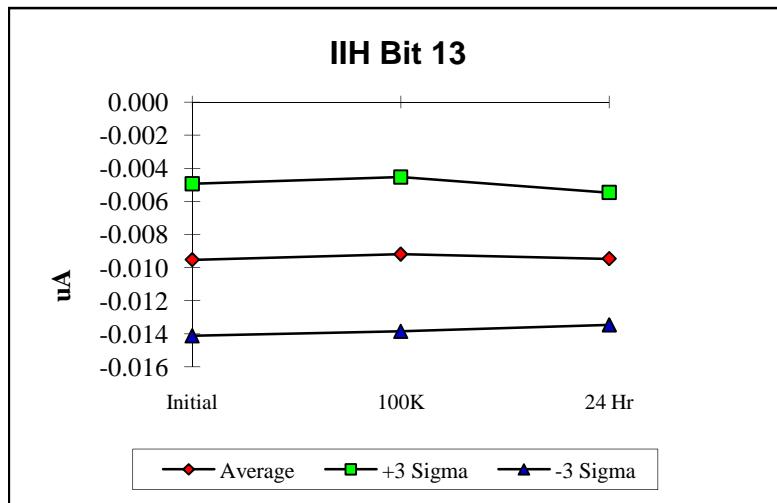
T# 534	IIH Bit 14		uA
SN	Initial	100K	24 Hr
16	**-0.010**	**-0.007**	**-0.010**
32	-0.010	-0.010	-0.006
33	-0.009	-0.011	-0.010
35	-0.011	-0.010	-0.008
36	-0.008	-0.015	-0.009
37	-0.011	-0.008	-0.011
45	-0.010	-0.009	-0.009
46	-0.011	-0.010	-0.009
47	-0.009	-0.010	-0.010
48	-0.010	-0.009	-0.008
49	-0.008	-0.010	-0.011
Min	-0.011	-0.015	-0.011
Max	-0.008	-0.008	-0.006
Std Dev	0.001	0.002	0.002
Average	-0.010	-0.010	-0.009
+3 Sigma	-0.006	-0.005	-0.004
-3 Sigma	-0.014	-0.016	-0.014
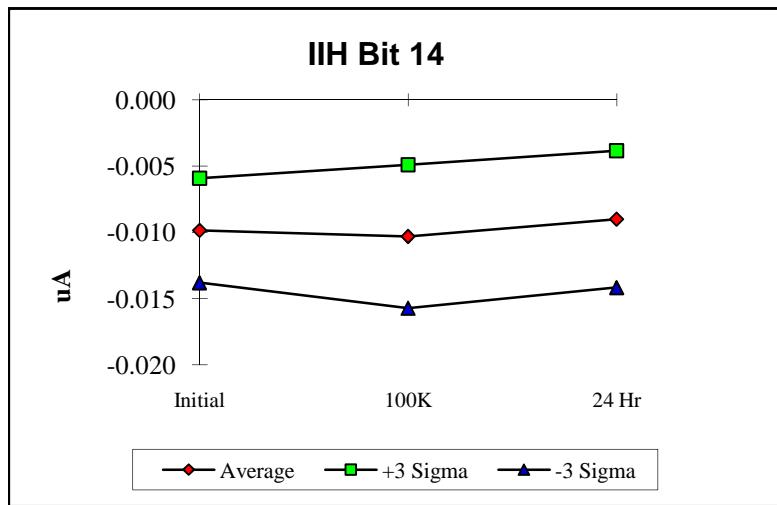
IIH Bit 14

T# 535	IIH Bit 15		uA
SN	Initial	100K	24 Hr
16	**-0.010**	**-0.011**	**-0.008**
32	-0.011	-0.011	-0.009
33	-0.009	-0.010	-0.010
35	-0.009	-0.011	-0.010
36	-0.008	-0.010	-0.011
37	-0.014	-0.009	-0.008
45	-0.011	-0.010	-0.010
46	-0.009	-0.008	-0.009
47	-0.011	-0.011	-0.012
48	-0.011	-0.009	-0.009
49	-0.011	-0.008	-0.009
Min	-0.014	-0.011	-0.012
Max	-0.008	-0.008	-0.008
Std Dev	0.002	0.001	0.001
Average	-0.011	-0.010	-0.010
+3 Sigma	-0.005	-0.006	-0.006
-3 Sigma	-0.016	-0.014	-0.014

IIH Bit 15
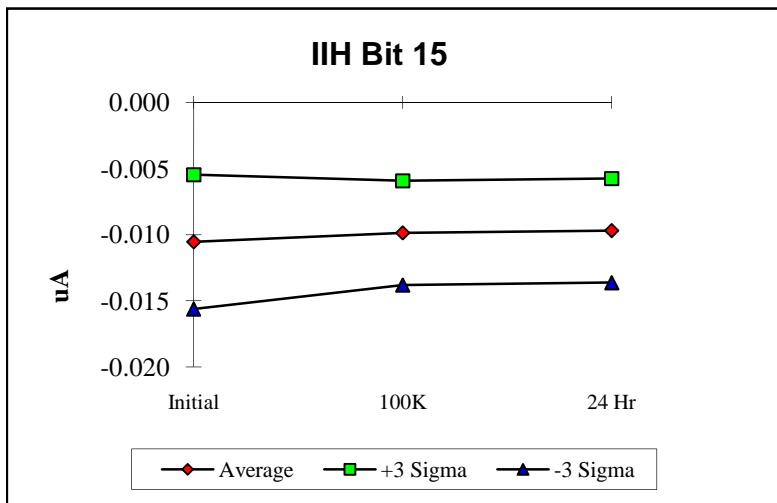
T# 536	IIH Clk		uA
SN	Initial	100K	24 Hr
16	**0.017**	**0.018**	**0.018**
32	0.017	0.018	0.015
33	0.017	0.017	0.017
35	0.018	0.016	0.018
36	0.017	0.016	0.019
37	0.019	0.017	0.015
45	0.018	0.015	0.017
46	0.017	0.019	0.017
47	0.016	0.017	0.017
48	0.016	0.017	0.018
49	0.016	0.017	0.019
Min	0.016	0.015	0.015
Max	0.019	0.019	0.019
Std Dev	0.001	0.001	0.001
Average	0.017	0.017	0.017
+3 Sigma	0.021	0.021	0.021
-3 Sigma	0.014	0.013	0.013