

RADIATION TEST REPORT

PRODUCT:	AD844SQ/QMLL
GAMMA:	0, 50k, 75k, 100k
GAMMA SOURCE:	Co60
DOSE RATE:	7.3mRad/s TM1019.8 Condition D
FACILITIES:	University of Massachusetts @ Lowell
TESTED:	2010

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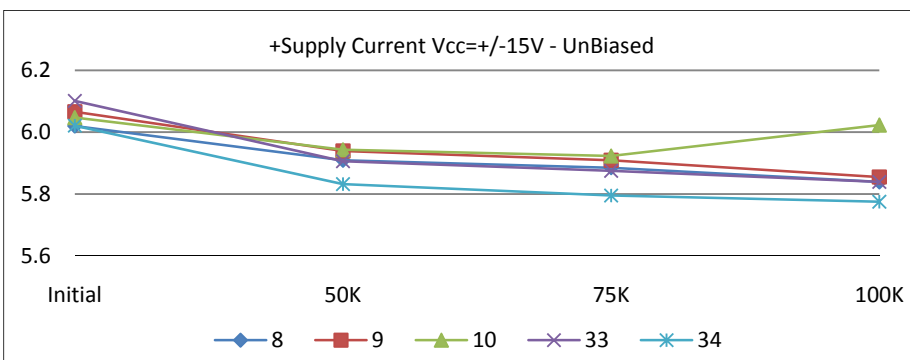
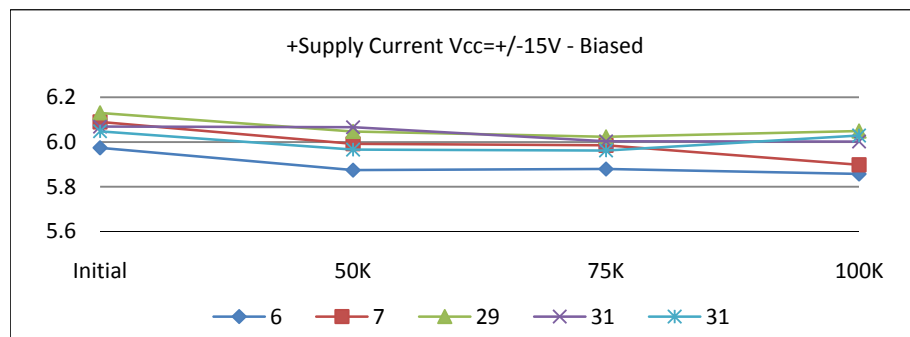
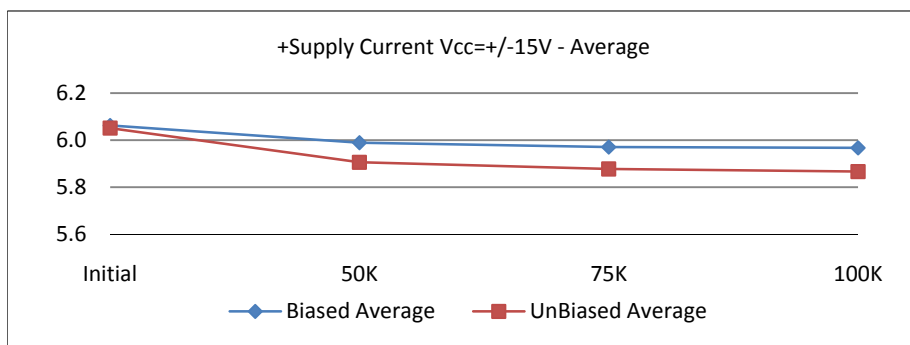
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WARNING:

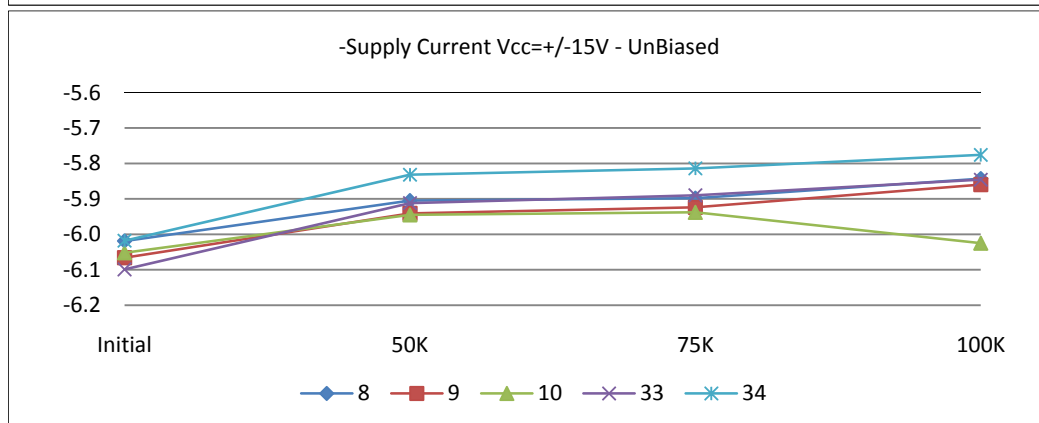
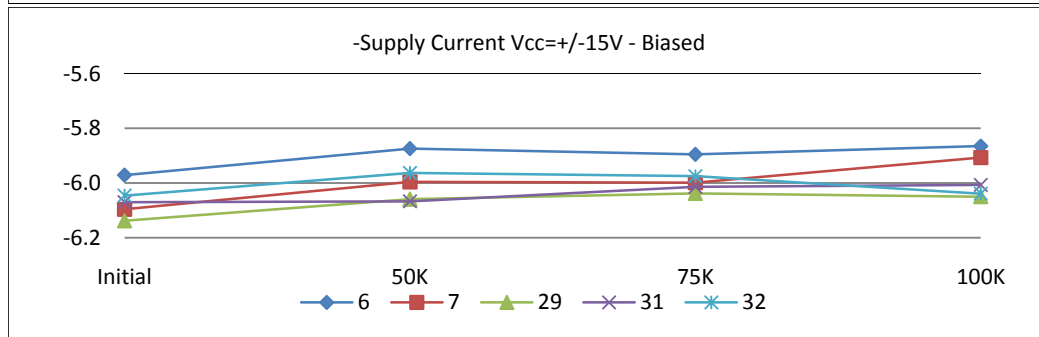
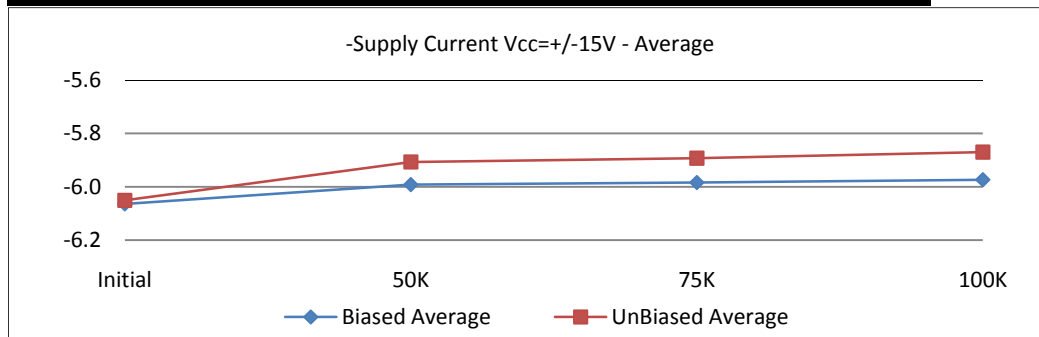
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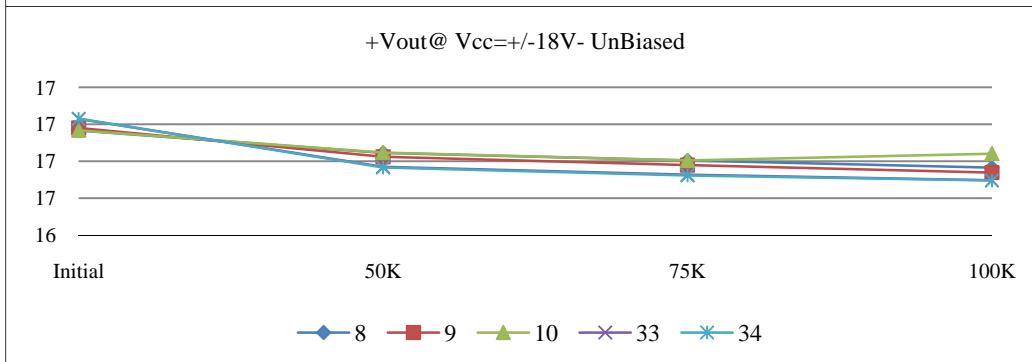
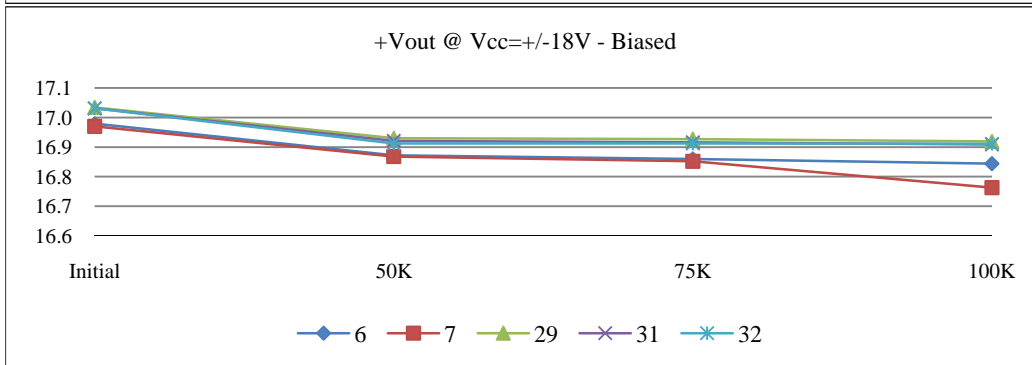
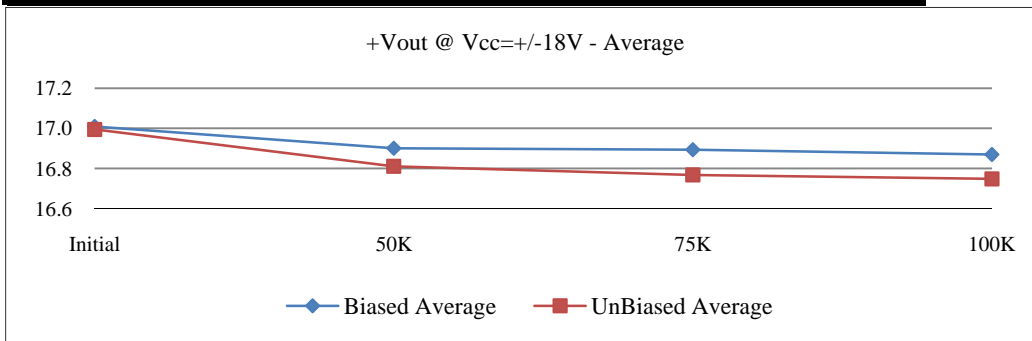
	T# 1	IQ+ @ VCC=+-15V				mA
	SN	Initial	50K	75K	100K	Limit
Control	11	6.1170	6.0990	5.9510	6.0450	<7.5
	35	6.1060	6.0950	6.0840	6.0610	
Biased	6	5.9740	5.8740	5.8790	5.8570	
	7	6.0900	5.9920	5.9850	5.8980	
	29	6.1300	6.0470	6.0230	6.0490	
	31	6.0690	6.0660	6.0030	6.0020	
	32	6.0480	5.9660	5.9620	6.0290	
	Min	5.9740	5.8740	5.8790	5.8570	
	Max	6.1300	6.0660	6.0230	6.0490	
	Average	6.0622	5.9890	5.9704	5.9670	
UnBiased	8	6.0200	5.9090	5.8850	5.8390	
	9	6.0660	5.9390	5.9090	5.8550	
	10	6.0470	5.9430	5.9230	6.0230	
	33	6.1010	5.9060	5.8750	5.8390	
	34	6.0210	5.8320	5.7950	5.7750	
	Min	6.0200	5.8320	5.7950	5.7750	
	Max	6.1010	5.9430	5.9230	6.0230	
	Average	6.0510	5.9058	5.8774	5.8662	



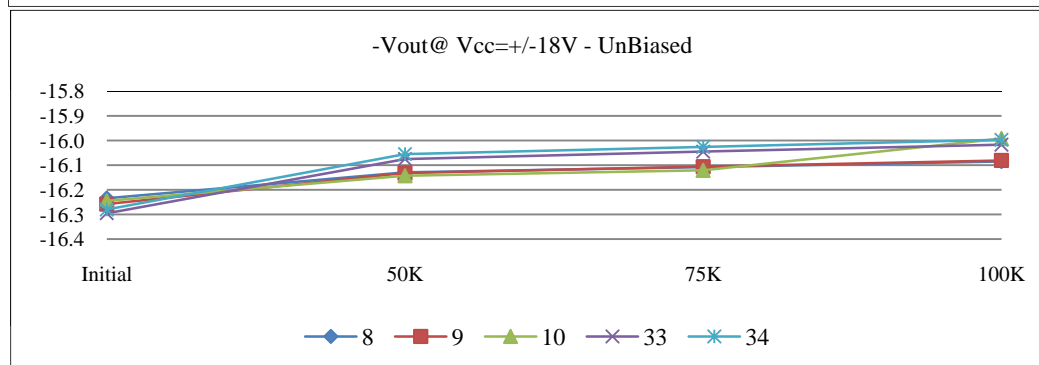
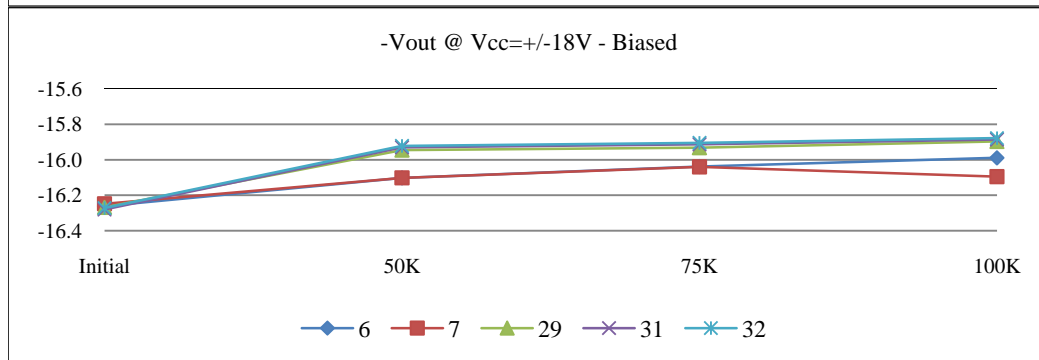
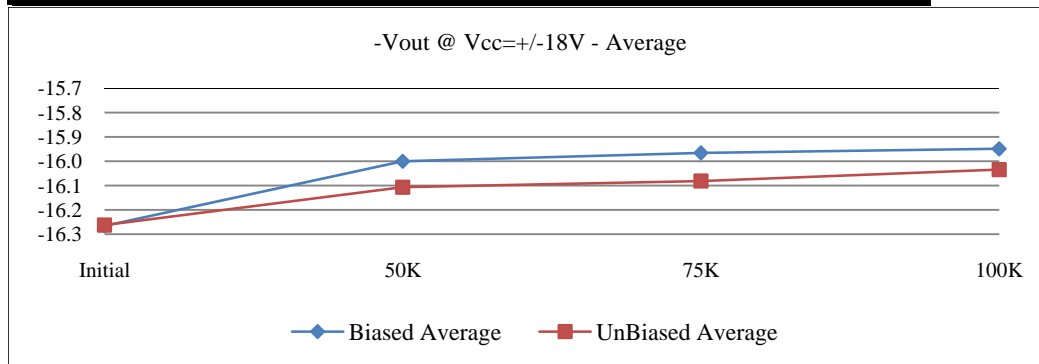
		T#2	IQ- @ VCC=+-15V				mA
		SN	Initial	50K	75K	100K	Limit
Control	11	-6.1190	-6.1070	-6.1000	-6.0520		>-7.5
	35	-6.1070	-6.1030	-6.1010	-6.0650		
Biased	6	-5.9710	-5.8740	-5.8950	-5.8650		
	7	-6.0960	-5.9960	-5.9990	-5.9070		
	29	-6.1380	-6.0590	-6.0380	-6.0500		
	31	-6.0700	-6.0670	-6.0140	-6.0070		
	32	-6.0460	-5.9630	-5.9750	-6.0390		
	Min	-6.1380	-6.0670	-6.0380	-6.0500		
	Max	-5.9710	-5.8740	-5.8950	-5.8650		
Average	-6.0642	-5.9918	-5.9842	-5.9736			
UnBiased	8	-6.0190	-5.9050	-5.8980	-5.8430		
	9	-6.0660	-5.9410	-5.9240	-5.8600		
	10	-6.0520	-5.9450	-5.9380	-6.0250		
	33	-6.0990	-5.9120	-5.8900	-5.8460		
	34	-6.0180	-5.8320	-5.8140	-5.7760		
	Min	-6.0990	-5.9450	-5.9380	-6.0250		
	Max	-6.0180	-5.8320	-5.8140	-5.7760		
Average	-6.0508	-5.9070	-5.8928	-5.8700			



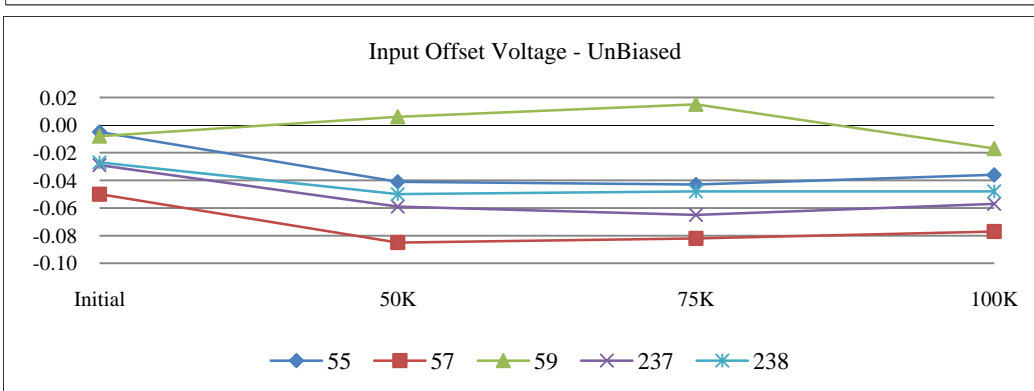
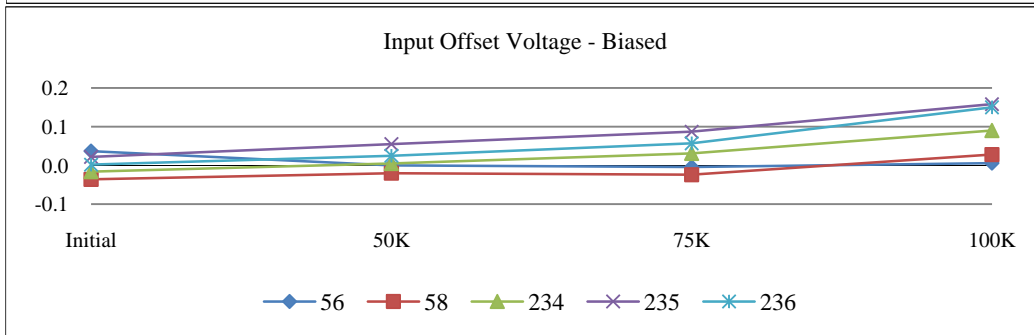
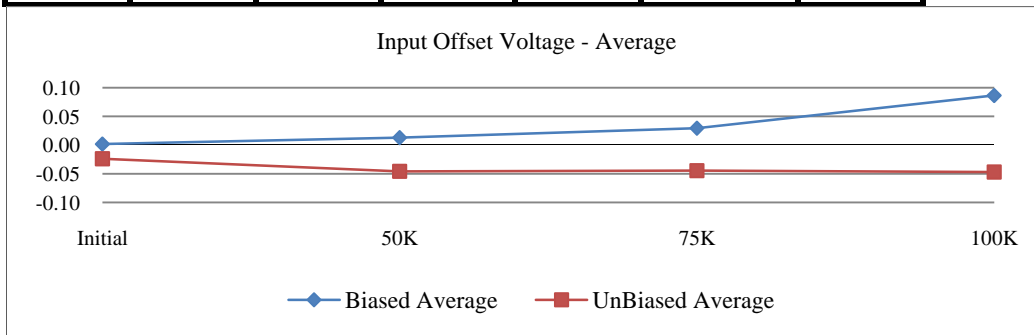
T#3	VOUT+ @ VCC=+-18V, NO LOAD				V	
SN	Initial	50K	75K	100K	Limit	
Control	11	16.9760	16.9740	16.9720	16.9700	
	35	17.0300	17.0260	17.0300	17.0250	
Biased	6	16.9790	16.8720	16.8600	16.8440	
	7	16.9700	16.8680	16.8520	16.7630	
	29	17.0340	16.9300	16.9270	16.9190	
	31	17.0310	16.9210	16.9160	16.9090	
	32	17.0310	16.9120	16.9120	16.9110	
	Min	16.9700	16.8680	16.8520	16.7630	
	Max	17.0340	16.9300	16.9270	16.9190	
Average	17.0090	16.9006	16.8934	16.8692		
UnBiased	8	16.9660	16.8450	16.8040	16.7650	
	9	16.9800	16.8240	16.7790	16.7390	
	10	16.9670	16.8470	16.8040	16.8410	
	33	17.0290	16.7700	16.7270	16.6970	
	34	17.0300	16.7660	16.7230	16.6960	
	Min	16.9660	16.7660	16.7230	16.6960	
	Max	17.0300	16.8470	16.8040	16.8410	
	Average	16.9944	16.8104	16.7674	16.7476	



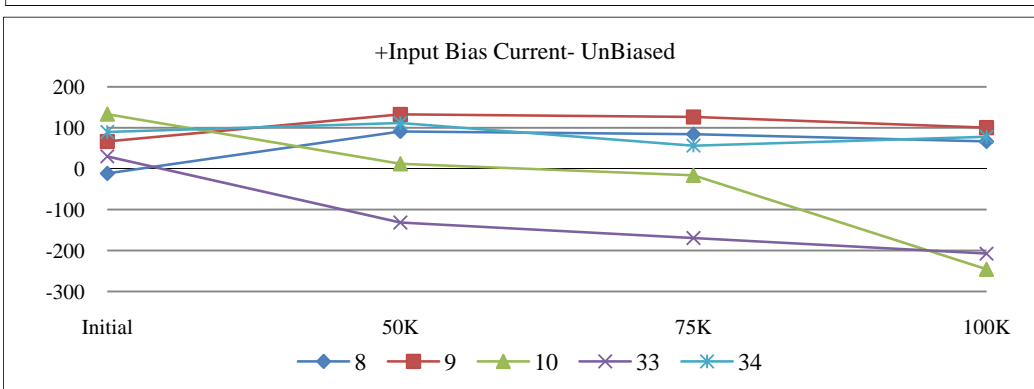
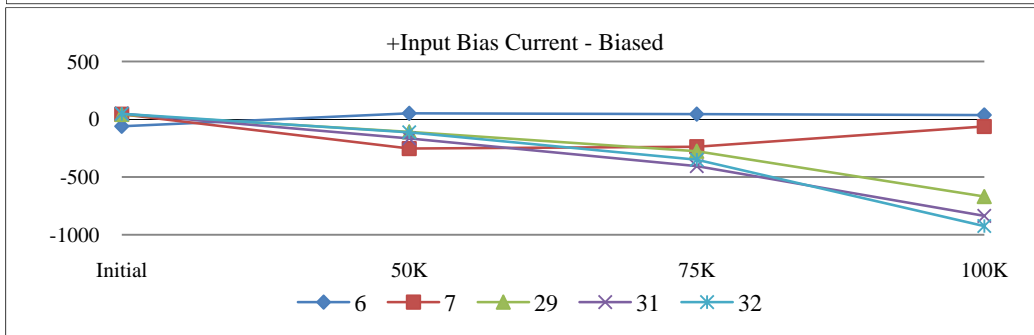
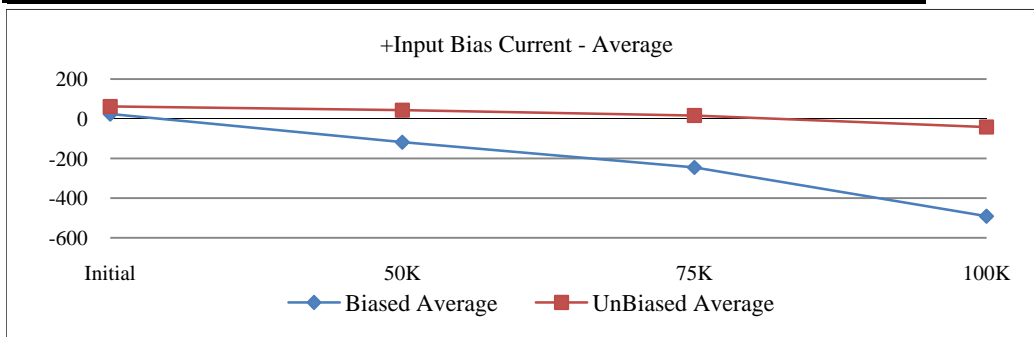
	T#4	VOUT- @ VCC=+-18V, NO LOAD				V
	SN	Initial	50K	75K	100K	Limit
Control	11	-16.2530	-16.2550	-16.2720	-16.2610	
	35	-16.2670	-16.2680	-16.2690	-16.2680	
Biased	6	-16.2610	-16.1020	-16.0380	-15.9890	
	7	-16.2480	-16.1020	-16.0400	-16.0950	
	29	-16.2680	-15.9450	-15.9320	-15.8970	
	31	-16.2800	-15.9300	-15.9130	-15.8860	
	32	-16.2720	-15.9220	-15.9050	-15.8780	
	Min	-16.2800	-16.1020	-16.0400	-16.0950	
	Max	-16.2480	-15.9220	-15.9050	-15.8780	
	Average	-16.2658	-16.0002	-15.9656	-15.9490	
UnBiased	8	-16.2340	-16.1290	-16.1080	-16.0850	
	9	-16.2580	-16.1320	-16.1060	-16.0810	
	10	-16.2450	-16.1430	-16.1210	-15.9920	
	33	-16.2950	-16.0750	-16.0450	-16.0170	
	34	-16.2800	-16.0550	-16.0260	-15.9970	
	Min	-16.2950	-16.1430	-16.1210	-16.0850	
	Max	-16.2340	-16.0550	-16.0260	-15.9920	
	Average	-16.2624	-16.1068	-16.0812	-16.0344	



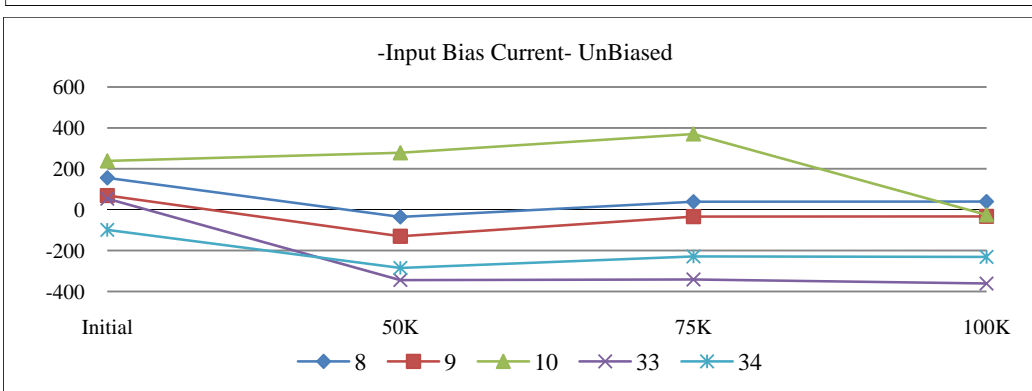
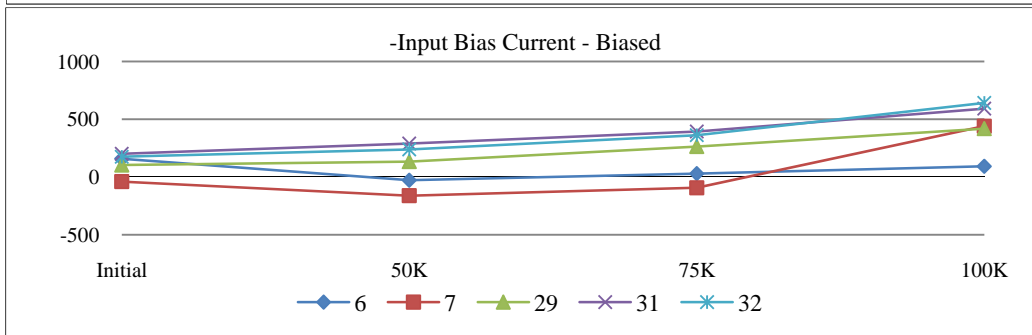
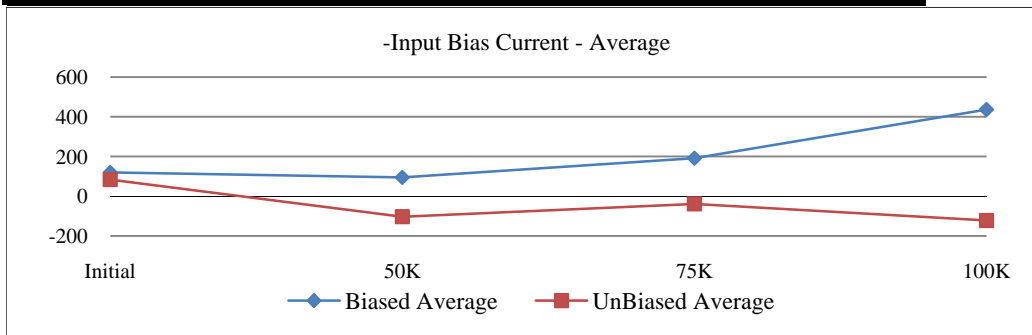
T#5		VIO				mV
SN		Initial	50K	75K	100K	Limit
Control	54	0.0130	0.0170	-0.0520	0.0070	+/-1
	243	0.0070	0.0050	0.0030	0.0060	
Biased	56	0.0370	0.0000	-0.0040	0.0060	
	58	-0.0360	-0.0200	-0.0240	0.0280	
	234	-0.0160	0.0050	0.0310	0.0900	
	235	0.0220	0.0550	0.0870	0.1580	
	236	0.0020	0.0250	0.0570	0.1500	
	Min	-0.0360	-0.0200	-0.0240	0.0060	
	Max	0.0370	0.0550	0.0870	0.1580	
	Average	0.0018	0.0130	0.0294	0.0864	
UnBiased	55	-0.0050	-0.0410	-0.0430	-0.0360	
	57	-0.0500	-0.0850	-0.0820	-0.0770	
	59	-0.0080	0.0060	0.0150	-0.0170	
	237	-0.0290	-0.0590	-0.0650	-0.0570	
	238	-0.0270	-0.0500	-0.0480	-0.0480	
	Min	-0.0500	-0.0850	-0.0820	-0.0770	
	Max	-0.0050	0.0060	0.0150	-0.0170	
	Average	-0.0238	-0.0458	-0.0446	-0.0470	



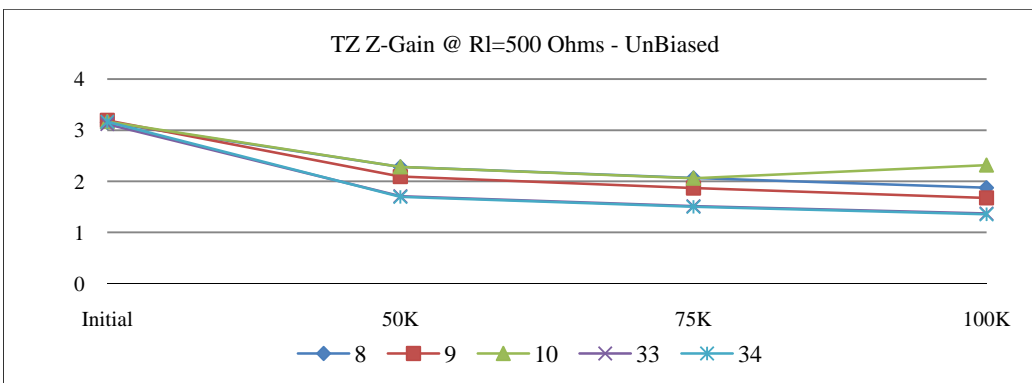
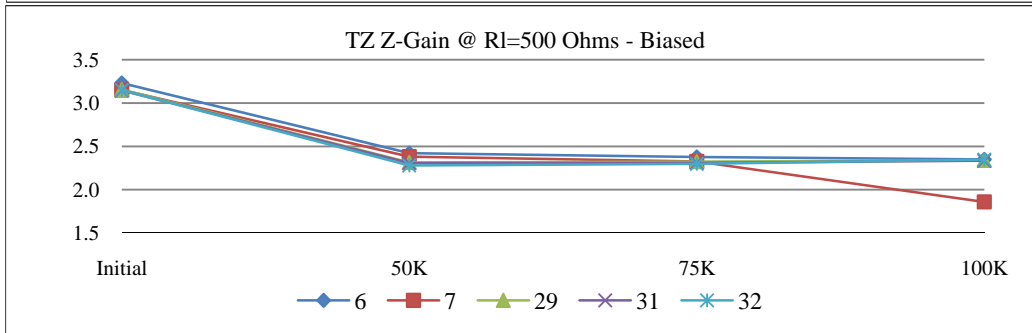
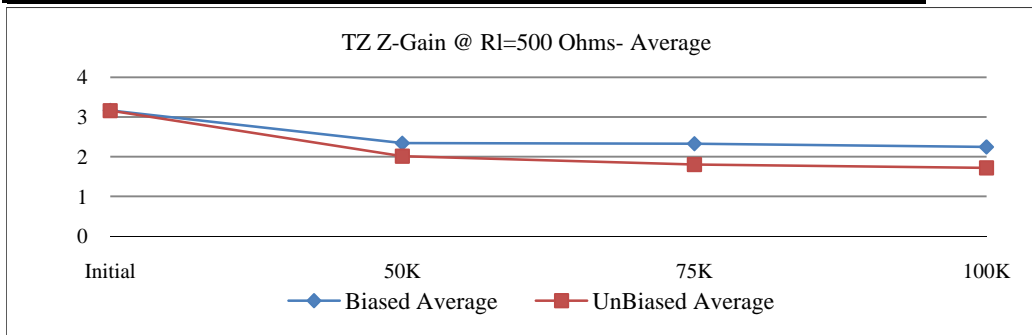
T#6		IIB+				nA
SN		Initial	50K	75K	100K	Limit
Control	11	-31.9270	-30.3060	-29.8400	-26.1910	+/-1300
	35	6.7700	5.7723	5.5670	4.2870	
Biased	6	-60.7020	51.4380	44.5420	36.6300	
	7	43.5280	-253.8080	-238.1070	-62.5210	
	29	40.5780	-109.1370	-276.4160	-668.5450	
	31	48.7790	-165.4760	-406.2330	-836.0530	
	32	46.9300	-112.8880	-350.2390	-924.3020	
	Min	-60.7020	-253.8080	-406.2330	-924.3020	
	Max	48.7790	51.4380	44.5420	36.6300	
	Average	23.8226	-117.9742	-245.2906	-490.9582	
UnBiased	8	-11.4510	91.1080	84.3700	66.6100	
	9	66.6140	132.6980	126.4910	100.4090	
	10	133.1780	11.8610	-16.3360	-245.9010	
	33	30.0920	-131.6110	-169.5090	-207.5270	
	34	89.8320	111.8340	56.2620	78.1200	
	Min	-11.4510	-131.6110	-169.5090	-245.9010	
	Max	133.1780	132.6980	126.4910	100.4090	
	Average	61.6530	43.1780	16.2556	-41.6578	



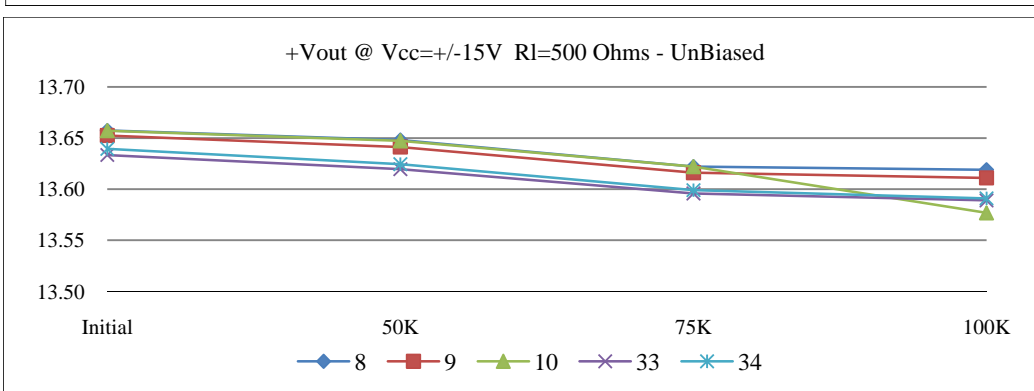
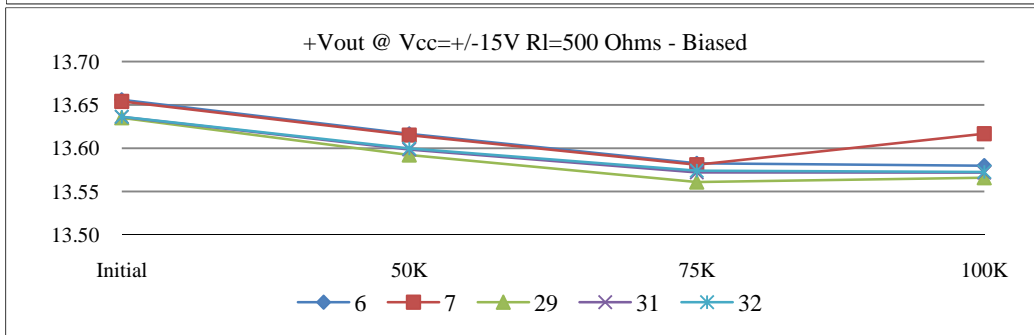
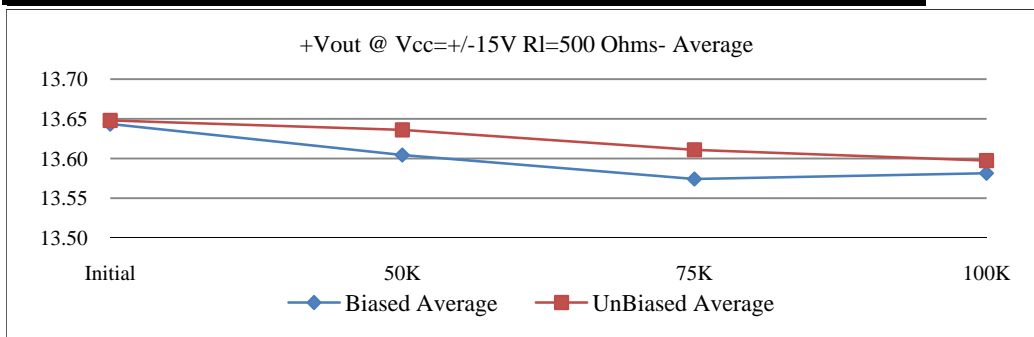
	T#7	IIB-				nA
	SN	Initial	50K	75K	100K	Limit
Control	11	110.6800	102.2210	101.1100	84.3480	+/-2500
	35	267.3050	263.3750	262.3910	257.8150	
Biased	6	158.4050	-27.5980	29.5680	92.6080	
	7	-39.5270	-161.3370	-92.8430	440.1470	
	29	103.4860	133.3430	263.9760	418.3170	
	31	201.1500	290.1750	393.9090	591.8580	
	32	175.7090	238.6570	362.0890	641.2540	
	Min	-39.5270	-161.3370	-92.8430	92.6080	
	Max	201.1500	290.1750	393.9090	641.2540	
	Average	119.8446	94.6480	191.3398	436.8368	
UnBiased	8	155.7740	-35.4760	39.2960	39.6530	
	9	69.1450	-129.9500	-33.8980	-32.7480	
	10	238.4930	278.3770	370.4120	-25.5660	
	33	53.8450	-344.2000	-341.3140	-361.3070	
	34	-98.8750	-284.7060	-228.5930	-231.0760	
	Min	-98.8750	-344.2000	-341.3140	-361.3070	
	Max	238.4930	278.3770	370.4120	39.6530	
	Average	83.6764	-103.1910	-38.8194	-122.2088	



	T#9	(TZ) Z-GAIN @ RL=500OHMS				MOHMS
	SN	Initial	50K	75K	100K	Limit
Control	11	3.1238	3.1084	3.1020	3.0757	>1.3
	35	3.1606	3.1405	3.1448	3.1307	
Biased	6	3.2308	2.4218	2.3784	2.3492	
	7	3.1506	2.3812	2.3267	1.8594	
	29	3.1547	2.3140	2.3234	2.3388	
	31	3.1454	2.3071	2.3099	2.3344	
	32	3.1500	2.2796	2.2978	2.3474	
	Min	3.1454	2.2796	2.2978	1.8594	
	Max	3.2308	2.4218	2.3784	2.3492	
	Average	3.1663	2.3407	2.3272	2.2458	
	UnBiased	8	3.1527	2.2821	2.0662	1.8740
9		3.1926	2.0929	1.8684	1.6758	
10		3.1687	2.2823	2.0609	2.3170	
33		3.1185	1.7086	1.5135	1.3694	
34		3.1653	1.6953	1.5010	1.3547	
Min		3.1185	1.6953	1.5010	1.3547	
Max		3.1926	2.2823	2.0662	2.3170	
Average		3.1596	2.0122	1.8020	1.7182	



		T#9	VOUT1+ @ VCC=+-15V, RL=500OHMS				V
		SN	Initial	50K	75K	100K	Limit
Control	11	13.6498	13.6464	13.6228	13.6190		>10
	35	13.6363	13.6353	13.6083	13.6051		
Biased	6	13.6559	13.6165	13.5825	13.5799		
	7	13.6540	13.6151	13.5810	13.6167		
	29	13.6350	13.5922	13.5610	13.5660		
	31	13.6362	13.5985	13.5721	13.5719		
	32	13.6363	13.5997	13.5741	13.5727		
	Min	13.6350	13.5922	13.5610	13.5660		
	Max	13.6559	13.6165	13.5825	13.6167		
	Average	13.6435	13.6044	13.5741	13.5814		
UnBiased	8	13.6574	13.6481	13.6220	13.6190		
	9	13.6525	13.6412	13.6161	13.6110		
	10	13.6572	13.6473	13.6220	13.5768		
	33	13.6334	13.6195	13.5958	13.5890		
	34	13.6394	13.6244	13.5990	13.5910		
	Min	13.6334	13.6195	13.5958	13.5768		
	Max	13.6574	13.6481	13.6220	13.6190		
	Average	13.6480	13.6361	13.6110	13.5974		



		T#10	VOUT1- @ VCC=+-15V, RL=500OHMS				V
		SN	Initial	50K	75K	100K	Limit
Control	11	-12.9595	-12.9627	-12.9544	-12.9611		<-10
	35	-13.0025	-13.0030	-12.9934	-12.9935		
Biased	6	-12.9526	-12.8756	-12.8466	-12.8372		
	7	-12.9619	-12.8903	-12.8654	-12.8700		
	29	-12.9947	-12.9187	-12.9107	-12.9017		
	31	-13.0021	-12.9109	-12.9121	-12.9080		
	32	-12.9978	-12.9263	-12.9130	-12.8938		
	Min	-13.0021	-12.9263	-12.9130	-12.9080		
	Max	-12.9526	-12.8756	-12.8466	-12.8372		
	Average	-12.9818	-12.9044	-12.8896	-12.8821		
UnBiased	8	-12.9752	-12.9440	-12.9043	-12.8753		
	9	-12.9601	-12.9074	-12.8523	-12.8250		
	10	-12.9759	-12.9402	-12.8996	-12.8469		
	33	-12.9985	-12.9427	-12.8887	-12.8596		
	34	-12.9976	-12.9370	-12.8843	-12.8521		
	Min	-12.9985	-12.9440	-12.9043	-12.8753		
	Max	-12.9601	-12.9074	-12.8523	-12.8250		
	Average	-12.9815	-12.9343	-12.8858	-12.8518		

