

# HIGH DOSE RADIATION TEST REPORT AD9694S-CSL

May 2023  
Generic

## Radiation Test Report

Product:	AD9694S
Gamma:	0, 30k, 50k
Gamma Source:	<sup>60</sup> Co/TM1019 Condition A
Dose Rate:	104.8 Rad(Si)/s
Facilities:	VPT RAD
Tested:	5/31/23

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		Leakage_High_PWDN (A)		Leakage_High_DUT_FD_A (A)		Leakage_High_DUT_FD_B (A)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	-2.59E-07	-2.21E-07	1.79E-05	1.78E-05	1.78E-05	1.78E-05
	15	-2.36E-07	-2.36E-07	1.81E-05	1.79E-05	1.81E-05	1.79E-05
	16	-2.74E-07	-2.06E-07	1.83E-05	1.81E-05	1.83E-05	1.81E-05
	17	-2.74E-07	-2.13E-07	1.77E-05	1.76E-05	1.77E-05	1.76E-05
	18	-2.51E-07	-2.44E-07	1.83E-05	1.81E-05	1.82E-05	1.81E-05
	19	-2.59E-07	-2.51E-07	1.85E-05	1.84E-05	1.85E-05	1.83E-05
	20	-2.67E-07	-2.51E-07	1.81E-05	1.79E-05	1.81E-05	1.79E-05
	Min	-2.74E-07	-2.51E-07	1.77E-05	1.76E-05	1.77E-05	1.76E-05
	Max	-2.36E-07	-2.06E-07	1.85E-05	1.84E-05	1.85E-05	1.83E-05
	Mean	-2.60E-07	-2.34E-07	1.82E-05	1.80E-05	1.81E-05	1.80E-05
	Std. Dev	1.48E-08	1.96E-08	2.72E-07	2.66E-07	2.56E-07	2.71E-07
	Mean - 3 Sigma	-3.05E-07	-2.93E-07	1.73E-05	1.72E-05	1.74E-05	1.72E-05
	Mean + 3 Sigma	-2.16E-07	-1.75E-07	1.90E-05	1.88E-05	1.89E-05	1.88E-05

		Leakage_High_DUT_FD_C (A)		Leakage_High_DUT_FD_D (A)		Leakage_High_DUT_DSUNY_AB_Total (A)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	1.79E-05	1.79E-05	1.78E-05	1.78E-05	3.92E-05	3.95E-05
	15	1.82E-05	1.80E-05	1.82E-05	1.79E-05	3.83E-05	3.84E-05
	16	1.85E-05	1.84E-05	1.84E-05	1.82E-05	3.84E-05	3.83E-05
	17	1.79E-05	1.78E-05	1.79E-05	1.77E-05	4.08E-05	4.07E-05
	18	1.86E-05	1.84E-05	1.86E-05	1.84E-05	3.94E-05	3.92E-05
	19	1.86E-05	1.84E-05	1.86E-05	1.84E-05	3.90E-05	3.88E-05
	20	1.81E-05	1.81E-05	1.81E-05	1.80E-05	3.91E-05	3.91E-05
	Min	1.79E-05	1.78E-05	1.79E-05	1.77E-05	3.83E-05	3.83E-05
	Max	1.86E-05	1.84E-05	1.86E-05	1.84E-05	4.08E-05	4.07E-05
	Mean	1.83E-05	1.82E-05	1.83E-05	1.81E-05	3.92E-05	3.91E-05
	Std. Dev	2.90E-07	2.78E-07	2.87E-07	2.80E-07	8.96E-07	8.51E-07
	Mean - 3 Sigma	1.75E-05	1.74E-05	1.74E-05	1.72E-05	3.65E-05	3.65E-05
	Mean + 3 Sigma	1.92E-05	1.90E-05	1.92E-05	1.89E-05	4.19E-05	4.16E-05

		Leakage_High_DUT_DSUNY_CD_Total (A)		Leakage_High_SCLK (A)		Leakage_High_CSB (A)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	4.06E-05	4.09E-05	1.79E-05	1.78E-05	-1.57E-05	-1.56E-05
	15	3.98E-05	3.98E-05	1.81E-05	1.80E-05	-1.59E-05	-1.58E-05
	16	3.85E-05	3.87E-05	1.83E-05	1.83E-05	-1.61E-05	-1.60E-05
	17	4.05E-05	4.04E-05	1.78E-05	1.78E-05	-1.56E-05	-1.56E-05
	18	3.90E-05	3.88E-05	1.84E-05	1.85E-05	-1.62E-05	-1.62E-05
	19	3.77E-05	3.76E-05	1.86E-05	1.85E-05	-1.62E-05	-1.62E-05
	20	3.82E-05	3.82E-05	1.82E-05	1.80E-05	-1.59E-05	-1.58E-05
	Min	3.77E-05	3.76E-05	1.78E-05	1.78E-05	-1.62E-05	-1.62E-05
	Max	4.05E-05	4.04E-05	1.86E-05	1.85E-05	-1.56E-05	-1.56E-05
	Mean	3.90E-05	3.89E-05	1.82E-05	1.82E-05	-1.60E-05	-1.59E-05
	Std. Dev	1.04E-06	1.03E-06	2.63E-07	2.74E-07	2.43E-07	2.60E-07
	Mean - 3 Sigma	3.58E-05	3.58E-05	1.75E-05	1.74E-05	-1.67E-05	-1.67E-05
	Mean + 3 Sigma	4.21E-05	4.20E-05	1.90E-05	1.90E-05	-1.53E-05	-1.51E-05

		Leakage_High_SDIO (A)		Leakage_Low_PWDN (A)		Leakage_Low_DUT_FD_A (A)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	1.79E-05	1.78E-05	-2.66E-08	-4.95E-08	7.61E-10	-6.01E-08
	15	1.81E-05	1.80E-05	-4.18E-08	1.14E-08	-6.85E-09	-1.45E-08
	16	1.83E-05	1.83E-05	3.80E-09	-1.14E-08	-4.49E-08	-3.73E-08
	17	1.78E-05	1.78E-05	-4.95E-08	-1.90E-08	-5.25E-08	-8.30E-08
	18	1.84E-05	1.85E-05	-2.66E-08	-1.90E-08	-2.21E-08	-4.49E-08
	19	1.85E-05	1.85E-05	-4.95E-08	-1.90E-08	-2.21E-08	-5.25E-08
	20	1.82E-05	1.80E-05	-4.18E-08	-2.66E-08	-4.49E-08	3.88E-08
	Min	1.78E-05	1.78E-05	-4.95E-08	-2.66E-08	-5.25E-08	-8.30E-08
	Max	1.85E-05	1.85E-05	3.80E-09	1.14E-08	-6.85E-09	3.88E-08
	Mean	1.82E-05	1.82E-05	-3.42E-08	-1.39E-08	-3.22E-08	-3.22E-08
	Std. Dev	2.54E-07	2.79E-07	2.04E-08	1.33E-08	1.78E-08	4.13E-08
	Mean - 3 Sigma	1.75E-05	1.73E-05	-9.55E-08	-5.39E-08	-8.56E-08	-1.56E-07
	Mean + 3 Sigma	1.90E-05	1.90E-05	2.70E-08	2.60E-08	2.12E-08	9.17E-08

	SN	Leakage_Low_DUT_FD_B (A)		Leakage_Low_DUT_FD_C (A)		Leakage_Low_DUT_FD_D (A)	
		PRE	30k	PRE	30k	PRE	30k
<b>CTRL</b>	1	-1.75E-08	-6.32E-08	-4.65E-08	-2.36E-08	-3.19E-08	-4.71E-08
	15	-1.75E-08	-5.56E-08	-1.60E-08	-6.17E-08	-3.95E-08	-9.12E-09
	16	-2.51E-08	-7.08E-08	-4.65E-08	-4.65E-08	-1.67E-08	-6.23E-08
	17	-6.32E-08	-7.84E-08	-4.65E-08	-2.36E-08	-4.71E-08	-6.99E-08
	18	-9.37E-08	-4.80E-08	-3.12E-08	-5.41E-08	-1.67E-08	-6.23E-08
	19	-9.90E-09	-5.56E-08	-3.12E-08	-1.60E-08	-5.47E-08	-3.95E-08
	20	-4.80E-08	-7.84E-08	-6.17E-08	-7.62E-10	-2.43E-08	-4.71E-08
	Min	-9.37E-08	-7.84E-08	-6.17E-08	-6.17E-08	-5.47E-08	-6.99E-08
	Max	-9.90E-09	-4.80E-08	-1.60E-08	-7.62E-10	-1.67E-08	-9.12E-09
	Mean	-4.29E-08	-6.45E-08	-3.88E-08	-3.38E-08	-3.32E-08	-4.84E-08
	Std. Dev	3.18E-08	1.31E-08	1.60E-08	2.39E-08	1.62E-08	2.23E-08
	Mean - 3 Sigma	-1.38E-07	-1.04E-07	-8.68E-08	-1.06E-07	-8.19E-08	-1.15E-07
	Mean + 3 Sigma	5.26E-08	-2.51E-08	9.09E-09	3.80E-08	1.55E-08	1.84E-08

	SN	Leakage_Low_DUT_DSINCR_AB_Total (A)		Leakage_Low_DUT_DSINCR_CD_Total (A)		Leakage_Low_SCLK (A)	
		PRE	30k	PRE	30k	PRE	30k
<b>CTRL</b>	1	-2.74E-05	-2.74E-05	-2.80E-05	-2.80E-05	-1.82E-08	-3.04E-09
	15	-2.61E-05	-2.67E-05	-2.64E-05	-2.69E-05	-1.82E-08	4.56E-09
	16	-2.69E-05	-2.72E-05	-2.64E-05	-2.68E-05	-4.10E-08	-1.06E-08
	17	-2.75E-05	-2.78E-05	-2.75E-05	-2.79E-05	-1.06E-08	-3.04E-09
	18	-2.61E-05	-2.65E-05	-2.63E-05	-2.67E-05	-3.04E-09	-3.04E-09
	19	-2.57E-05	-2.61E-05	-2.64E-05	-2.68E-05	-3.34E-08	-2.58E-08
	20	-2.69E-05	-2.73E-05	-2.73E-05	-2.77E-05	-1.06E-08	-3.34E-08
	Min	-2.75E-05	-2.78E-05	-2.75E-05	-2.79E-05	-4.10E-08	-3.34E-08
	Max	-2.57E-05	-2.61E-05	-2.63E-05	-2.67E-05	-3.04E-09	4.56E-09
	Mean	-2.65E-05	-2.69E-05	-2.67E-05	-2.71E-05	-1.95E-08	-1.19E-08
	Std. Dev	6.55E-07	6.20E-07	5.59E-07	5.37E-07	1.47E-08	1.47E-08
	Mean - 3 Sigma	-2.85E-05	-2.88E-05	-2.84E-05	-2.88E-05	-6.37E-08	-5.61E-08
	Mean + 3 Sigma	-2.46E-05	-2.51E-05	-2.50E-05	-2.55E-05	2.47E-08	3.23E-08

	SN	Leakage_Low_CSBB (A)		Leakage_Low_SDIO (A)		Total_Power_PWDN_SCREEN (W)	
		PRE	30k	PRE	30k	PRE	30k
<b>CTRL</b>	1	-3.41E-05	-3.39E-05	-7.31E-08	-4.27E-08	0.3221	0.3254
	15	-3.45E-05	-3.44E-05	-5.03E-08	-7.31E-08	0.3410	0.3556
	16	-3.50E-05	-3.49E-05	-4.27E-08	-5.79E-08	0.3379	0.3468
	17	-3.39E-05	-3.39E-05	-5.79E-08	-4.27E-08	0.3614	0.3658
	18	-3.52E-05	-3.52E-05	-1.98E-08	-3.50E-08	0.3225	0.3276
	19	-3.53E-05	-3.52E-05	-7.31E-08	-4.27E-08	0.3719	0.3799
	20	-3.47E-05	-3.43E-05	-1.98E-08	-3.50E-08	0.3437	0.3522
	Min	-3.53E-05	-3.52E-05	-7.31E-08	-7.31E-08	0.3225	0.3276
	Max	-3.39E-05	-3.39E-05	-1.98E-08	-3.50E-08	0.3719	0.3799
	Mean	-3.48E-05	-3.46E-05	-4.39E-08	-4.77E-08	0.3464	0.3546
	Std. Dev	5.41E-07	5.21E-07	2.12E-08	1.50E-08	0.0177	0.0177
	Mean - 3 Sigma	-3.64E-05	-3.62E-05	-1.08E-07	-9.27E-08	0.2934	0.3016
	Mean + 3 Sigma	-3.31E-05	-3.31E-05	1.98E-08	-2.80E-09	0.3994	0.4077

	SN	POR_Supply_AVdd_0p9 (V)		POR_Supply_AVdd_1p8 (V)		POR_Supply_DVdd_0p9 (V)	
		PRE	30k	PRE	30k	PRE	30k
<b>CTRL</b>	1	0.73	0.73	1.33	1.32	0.73	0.73
	15	0.73	0.73	1.43	1.44	0.76	0.76
	16	0.76	0.76	1.48	1.48	0.76	0.76
	17	0.76	0.77	1.47	1.48	0.72	0.72
	18	0.76	0.76	1.41	1.42	0.73	0.73
	19	0.77	0.77	1.43	1.43	0.76	0.76
	20	0.78	0.78	1.37	1.38	0.75	0.76
	Min	0.73	0.73	1.37	1.38	0.72	0.72
	Max	0.78	0.78	1.48	1.48	0.76	0.76
	Mean	0.76	0.76	1.43	1.44	0.75	0.75
	Std. Dev	0.02	0.02	0.04	0.04	0.02	0.02
	Mean - 3 Sigma	0.71	0.71	1.31	1.32	0.69	0.69
	Mean + 3 Sigma	0.81	0.81	1.55	1.55	0.80	0.80

		POR_Supply_DRVdd_0p9 (V)		POR_Supply_AVdd_SPI (V)		POR_Supply_JTXPLL_1p8 (V)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	0.76	0.76	1.45	1.45	1.31	1.31
	15	0.74	0.74	1.45	1.45	1.25	1.25
	16	0.76	0.76	1.47	1.47	1.30	1.30
	17	0.73	0.74	1.45	1.45	1.31	1.31
	18	0.79	0.79	1.45	1.45	1.36	1.36
	19	0.77	0.77	1.45	1.45	1.25	1.25
	20	0.75	0.75	1.45	1.45	1.25	1.25
	Min	0.73	0.74	1.45	1.45	1.25	1.25
	Max	0.79	0.79	1.47	1.47	1.36	1.36
	Mean	0.76	0.76	1.45	1.45	1.29	1.29
	Std. Dev	0.02	0.02	0.01	0.01	0.05	0.05
	Mean - 3 Sigma	0.69	0.70	1.43	1.43	1.15	1.15
	Mean + 3 Sigma	0.82	0.82	1.48	1.48	1.42	1.42

		Chan A Final Offset (Codes)		Chan B Final Offset (Codes)		Chan C Final Offset (Codes)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	4.625	-0.537	1.685	0.549	-2.283	-1.864
	15	1.735	1.675	-2.027	5.706	2.074	3.314
	16	1.920	2.849	-0.425	-1.300	-0.383	3.801
	17	5.767	3.515	2.367	1.165	1.155	2.191
	18	0.841	-2.793	0.311	-1.734	-4.653	-3.447
	19	-1.789	1.775	-4.770	3.719	-2.110	-4.381
	20	-3.574	3.711	2.106	2.057	5.269	0.318
	Min	-3.574	-2.793	-4.770	-1.734	-4.653	-4.381
	Max	5.767	3.711	2.367	5.706	5.269	3.801
	Mean	0.817	1.789	-0.406	1.302	0.226	0.299
	Std. Dev	3.244	2.400	2.690	2.910	3.445	3.489
	Mean - 3 Sigma	-8.916	-5.413	-8.477	-7.427	-10.110	-10.168
	Mean + 3 Sigma	10.550	8.990	7.664	10.032	10.561	10.767

		Chan D Final Offset (Codes)		Offset Matching (%FSR)		Gain_Error_A (%)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	-2.013	-3.218	17.263	24.737	19.460	19.211
	15	3.929	4.417	15.154	16.276	19.612	19.167
	16	-3.787	-4.235	20.302	21.770	19.402	19.418
	17	-2.534	-1.558	17.618	14.444	19.603	18.972
	18	0.234	-0.486	13.197	20.307	19.465	18.923
	19	-0.768	-0.013	10.471	15.240	18.874	18.774
	20	4.703	3.097	12.228	20.570	19.955	19.282
	Min	-3.787	-4.235	10.471	14.444	18.874	18.774
	Max	4.703	4.417	20.302	21.770	19.955	19.418
	Mean	0.296	0.204	14.828	18.101	19.485	19.089
	Std. Dev	3.419	3.145	3.640	3.140	3.355	0.242
	Mean - 3 Sigma	-9.960	-9.232	3.907	8.680	18.419	18.364
	Mean + 3 Sigma	10.552	9.639	25.749	27.523	20.551	19.815

		Gain_Error_B (%)		Gain_Error_C (%)		Gain_Error_D (%)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	20.087	20.036	19.528	19.177	19.562	19.682
	15	19.900	20.096	19.470	19.141	20.299	19.367
	16	19.646	19.220	19.204	18.799	19.871	19.287
	17	20.392	19.806	19.581	19.033	19.999	19.237
	18	20.019	19.298	20.221	19.052	20.175	19.207
	19	20.106	19.863	19.186	19.987	19.828	19.300
	20	20.135	19.773	20.076	19.105	19.762	19.082
	Min	19.646	19.220	19.186	18.799	19.762	19.082
	Max	20.392	20.096	20.221	19.141	20.299	19.367
	Mean	20.033	19.676	19.623	19.019	19.989	19.247
	Std. Dev	0.250	0.343	0.437	0.121	0.211	0.098
	Mean - 3 Sigma	19.283	18.646	18.312	18.657	19.356	18.953
	Mean + 3 Sigma	20.783	20.706	20.934	19.382	20.622	19.540

CTRL	SN	DNL_Min_A_10M (LSBs)		DNL_Max_A_10M (LSBs)		INL_Min_A_10M (LSBs)	
		PRE	30k	PRE	30k	PRE	30k
	1	-0.335	-0.322	0.373	0.338	-1.253	-1.306
	15	-0.336	-0.338	0.395	0.352	-1.321	-1.249
	16	-0.314	-0.350	0.436	0.350	-1.228	-1.226
	17	-0.373	-0.359	0.380	0.410	-1.194	-1.178
	18	-0.367	-0.362	0.375	0.416	-1.252	-1.212
	19	-0.348	-0.378	0.387	0.454	-1.193	-1.170
	20	-0.340	-0.395	0.357	0.381	-1.082	-1.007
	Min	-0.373	-0.395	0.357	0.350	-1.321	-1.249
	Max	-0.314	-0.338	0.436	0.454	-1.082	-1.007
	Mean	-0.346	-0.364	0.388	0.394	-1.211	-1.174
	Std. Dev	0.022	0.020	0.027	0.041	0.079	0.087
	Mean - 3 Sigma	-0.412	-0.424	0.309	0.272	-1.448	-1.434
	Mean + 3 Sigma	-0.281	-0.303	0.468	0.515	-0.974	-0.914

CTRL	SN	INL_Max_A_10M (LSBs)		DNL_Min_B_10M (LSBs)		DNL_Max_B_10M (LSBs)	
		PRE	30k	PRE	30k	PRE	30k
	1	0.973	0.995	-0.360	-0.375	0.354	0.413
	15	0.964	1.017	-0.370	-0.375	0.440	0.395
	16	0.864	0.897	-0.320	-0.344	0.409	0.356
	17	0.858	0.969	-0.336	-0.352	0.363	0.426
	18	1.011	0.967	-0.359	-0.350	0.371	0.432
	19	0.988	1.038	-0.337	-0.329	0.373	0.377
	20	0.785	0.790	-0.368	-0.339	0.369	0.369
	Min	0.785	0.790	-0.370	-0.375	0.363	0.356
	Max	1.011	1.038	-0.320	-0.329	0.440	0.432
	Mean	0.912	0.946	-0.348	-0.348	0.387	0.393
	Std. Dev	0.089	0.091	0.020	0.015	0.031	0.031
	Mean - 3 Sigma	0.645	0.674	-0.409	-0.394	0.296	0.299
	Mean + 3 Sigma	1.179	1.219	-0.288	-0.302	0.479	0.486

CTRL	SN	INL_Min_B_10M (LSBs)		INL_Max_B_10M (LSBs)		DNL_Min_C_10M (LSBs)	
		PRE	30k	PRE	30k	PRE	30k
	1	-1.115	-1.139	0.924	0.876	-0.355	-0.332
	15	-1.260	-1.197	1.020	1.016	-0.367	-0.314
	16	-1.181	-1.157	0.953	0.953	-0.338	-0.321
	17	-1.120	-1.078	0.865	0.995	-0.329	-0.394
	18	-1.151	-1.125	1.080	1.089	-0.325	-0.367
	19	-1.193	-1.060	1.005	0.869	-0.336	-0.323
	20	-1.100	-1.107	0.855	0.946	-0.330	-0.316
	Min	-1.260	-1.197	0.855	0.869	-0.367	-0.394
	Max	-1.100	-1.060	1.080	1.089	-0.325	-0.314
	Mean	-1.168	-1.121	0.963	0.968	-0.337	-0.339
	Std. Dev	0.058	0.051	0.089	0.082	0.015	0.033
	Mean - 3 Sigma	-1.340	-1.273	0.695	0.722	-0.383	-0.438
	Mean + 3 Sigma	-0.995	-0.969	1.231	1.214	-0.291	-0.239

CTRL	SN	DNL_Max_C_10M (LSBs)		INL_Min_C_10M (LSBs)		INL_Max_C_10M (LSBs)	
		PRE	30k	PRE	30k	PRE	30k
	1	0.341	0.329	-1.102	-1.070	1.124	1.037
	15	0.350	0.437	-1.187	-1.292	0.939	1.043
	16	0.354	0.360	-1.258	-1.220	1.019	0.968
	17	0.418	0.355	-1.120	-1.096	0.980	0.987
	18	0.403	0.373	-1.070	-1.138	0.914	0.941
	19	0.355	0.410	-1.147	-1.114	0.916	0.956
	20	0.337	0.428	-1.226	-1.168	1.037	0.947
	Min	0.337	0.355	-1.258	-1.292	0.914	0.941
	Max	0.418	0.437	-1.070	-1.096	1.037	1.043
	Mean	0.370	0.394	-1.168	-1.171	0.967	0.974
	Std. Dev	0.033	0.036	0.070	0.074	0.053	0.038
	Mean - 3 Sigma	0.272	0.287	-1.377	-1.392	0.809	0.860
	Mean + 3 Sigma	0.468	0.502	-0.959	-0.950	1.126	1.087

		DNL_Min_D_10M (LSBs)		DNL_Max_D_10M (LSBs)		INL_Min_D_10M (LSBs)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	-0.349	-0.324	0.380	0.370	-0.914	-1.020
	15	-0.305	-0.340	0.347	0.364	-0.962	-0.928
	16	-0.351	-0.345	0.374	0.392	-0.934	-0.903
	17	-0.409	-0.380	0.367	0.384	-1.246	-1.088
	18	-0.314	-0.316	0.357	0.341	-1.000	-1.046
	19	-0.345	-0.331	0.432	0.400	-0.951	-0.946
	20	-0.355	-0.320	0.361	0.363	-1.011	-1.002
	Min	-0.409	-0.380	0.347	0.341	-1.246	-1.088
	Max	-0.305	-0.316	0.432	0.400	-0.934	-0.903
	Mean	-0.347	-0.339	0.373	0.374	-1.018	-0.985
	Std. Dev	0.037	0.023	0.030	0.022	0.116	0.072
	Mean - 3 Sigma	-0.457	-0.408	0.282	0.309	-1.365	-1.201
	Mean + 3 Sigma	-0.236	-0.269	0.464	0.439	-0.670	-0.769

		INL_Max_D_10M (LSBs)		SNRFS_A_155M (dBFS)		SINAD_A_155M (dBFS)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	0.888	0.996	67.108	67.015	65.968	65.867
	15	1.268	1.326	67.023	66.989	65.893	65.860
	16	0.968	0.968	67.101	66.985	65.960	65.832
	17	1.060	1.065	67.085	67.008	65.989	65.901
	18	1.217	1.231	67.180	67.070	66.037	65.915
	19	0.968	0.944	66.834	66.781	65.736	65.673
	20	1.014	1.085	67.115	66.978	66.011	65.862
	Min	0.968	0.944	66.834	66.781	65.736	65.673
	Max	1.268	1.326	67.180	67.070	66.037	65.915
	Mean	1.082	1.103	67.056	66.968	65.938	65.840
	Std. Dev	0.130	0.149	0.120	0.098	0.111	0.087
	Mean - 3 Sigma	0.694	0.656	66.697	66.675	65.606	65.579
	Mean + 3 Sigma	1.471	1.551	67.416	67.262	66.269	66.102

		H2_A_155M (dBFS)		H3_A_155M (dBFS)		WOSPUR_A_155M (dBFS)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	84.796	84.274	86.726	86.412	97.821	94.163
	15	84.672	85.024	87.466	87.064	95.011	93.711
	16	84.180	84.344	87.381	86.488	97.268	98.573
	17	86.157	85.295	89.597	89.538	96.780	97.540
	18	85.991	84.896	85.343	85.447	97.933	95.425
	19	86.761	86.963	87.492	87.127	94.542	95.366
	20	86.397	85.903	88.074	87.400	96.387	96.093
	Min	84.180	84.344	85.343	85.447	94.542	93.711
	Max	86.761	86.963	89.597	89.538	97.933	98.573
	Mean	85.693	85.404	87.559	87.177	96.320	96.118
	Std. Dev	1.027	0.918	1.369	1.350	1.311	1.726
	Mean - 3 Sigma	82.613	82.649	83.452	83.128	92.388	90.941
	Mean + 3 Sigma	88.773	88.159	91.666	91.226	100.253	101.295

		SFDR_A_155M (dBFS)		SNRFS_B_155M (dBFS)		SINAD_B_155M (dBFS)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	84.796	84.274	67.126	67.059	65.886	65.832
	15	84.672	85.024	66.971	66.856	65.709	65.604
	16	84.180	84.344	67.024	66.921	65.753	65.663
	17	86.157	85.295	67.054	66.976	65.815	65.737
	18	85.343	84.896	66.982	66.935	65.723	65.696
	19	86.761	86.963	66.868	66.892	65.672	65.707
	20	86.397	85.903	67.006	66.941	65.724	65.690
	Min	84.180	84.344	66.868	66.856	65.672	65.604
	Max	86.761	86.963	67.054	66.976	65.815	65.737
	Mean	85.585	85.404	66.984	66.920	65.733	65.683
	Std. Dev	1.023	0.918	0.064	0.042	0.048	0.046
	Mean - 3 Sigma	82.516	82.649	66.792	66.795	65.587	65.546
	Mean + 3 Sigma	88.654	88.159	67.177	67.046	65.878	65.820

		H2_B_155M (dBFS)		H3_B_155M (dBFS)		WOSPUR_B_155M (dBFS)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	81.543	81.667	85.494	85.339	97.280	95.394
	15	80.450	80.592	85.693	85.211	96.777	95.648
	16	80.342	80.647	85.484	84.876	97.279	93.716
	17	81.531	81.699	84.909	84.575	98.411	93.128
	18	80.920	81.338	84.939	84.589	94.308	93.259
	19	82.100	82.293	86.314	86.705	97.617	94.535
	20	80.356	81.036	84.393	84.320	94.688	96.064
	Min	80.342	80.592	84.393	84.320	94.308	93.128
	Max	82.100	82.293	86.314	86.705	98.411	96.064
	Mean	80.950	81.267	85.289	85.046	96.513	94.392
	Std. Dev	0.726	0.654	0.681	0.868	1.653	1.244
	Mean - 3 Sigma	78.773	79.305	83.244	82.442	91.552	90.661
	Mean + 3 Sigma	83.127	83.229	87.333	87.650	101.473	98.123

		SFDR_B_155M (dBFS)		SNRFS_C_155M (dBFS)		SINAD_C_155M (dBFS)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	81.543	81.667	67.051	67.034	65.954	65.922
	15	80.450	80.592	67.120	67.035	66.000	65.898
	16	80.342	80.647	66.977	66.876	65.863	65.772
	17	81.531	81.699	67.049	67.005	65.944	65.878
	18	80.920	81.338	67.000	66.982	65.943	65.894
	19	82.100	82.293	66.731	66.687	65.663	65.616
	20	80.356	81.036	67.058	66.923	65.947	65.817
	Min	80.342	80.592	66.731	66.687	65.663	65.616
	Max	82.100	82.293	67.120	67.035	66.000	65.898
	Mean	80.950	81.267	66.989	66.918	65.893	65.813
	Std. Dev	0.726	0.654	0.136	0.127	0.121	0.108
	Mean - 3 Sigma	78.773	79.305	66.582	66.538	65.530	65.488
	Mean + 3 Sigma	83.127	83.229	67.396	67.298	66.257	66.137

		H2_C_155M (dBFS)		H3_C_155M (dBFS)		WOSPUR_C_155M (dBFS)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	87.463	86.897	87.273	87.334	96.384	94.894
	15	88.457	87.063	85.091	84.716	96.956	95.991
	16	86.111	86.026	87.225	86.894	94.987	96.301
	17	88.071	87.356	85.466	84.548	93.607	97.591
	18	92.368	91.683	87.633	85.543	97.338	95.714
	19	89.974	90.892	87.577	87.001	93.063	95.815
	20	88.893	89.923	85.277	84.737	97.348	96.454
	Min	86.111	86.026	85.091	84.548	93.063	95.714
	Max	92.368	91.683	87.633	87.001	97.348	97.591
	Mean	88.979	88.824	86.378	85.573	95.550	96.311
	Std. Dev	2.088	2.313	1.219	1.120	1.933	0.687
	Mean - 3 Sigma	82.714	81.886	82.721	82.214	89.750	94.249
	Mean + 3 Sigma	95.244	95.762	90.035	88.932	101.349	98.373

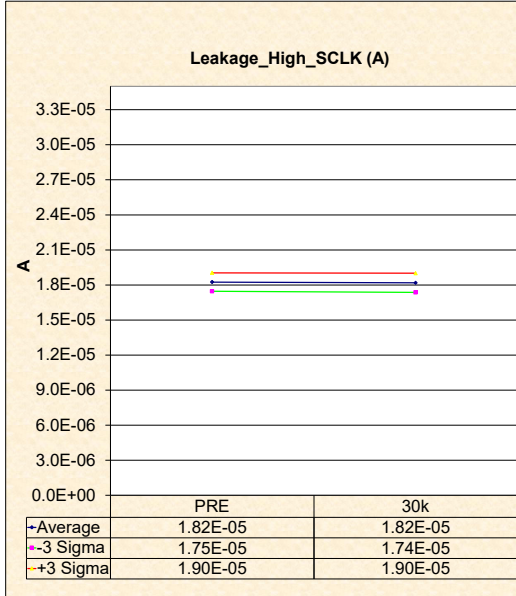
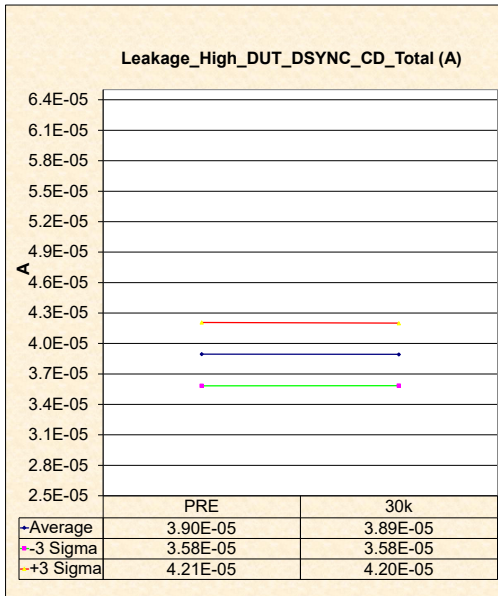
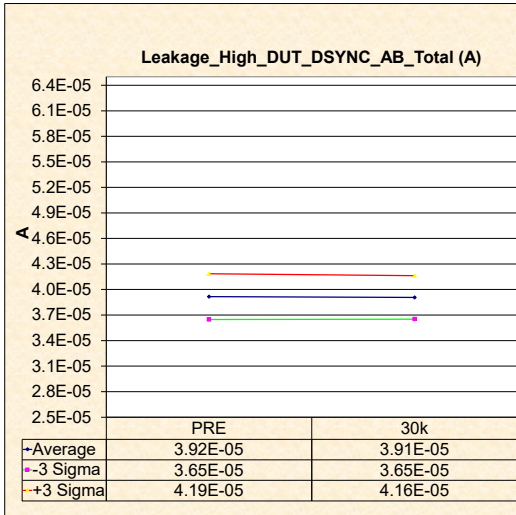
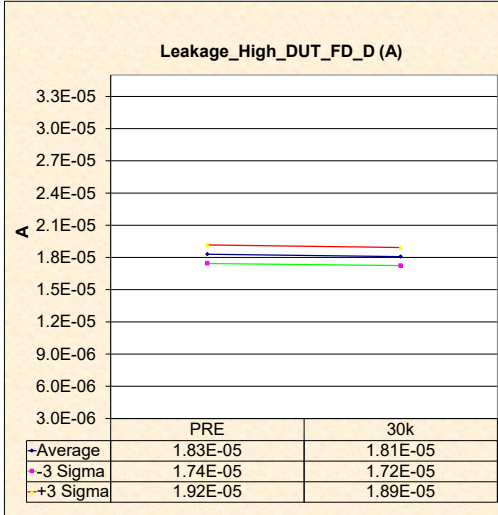
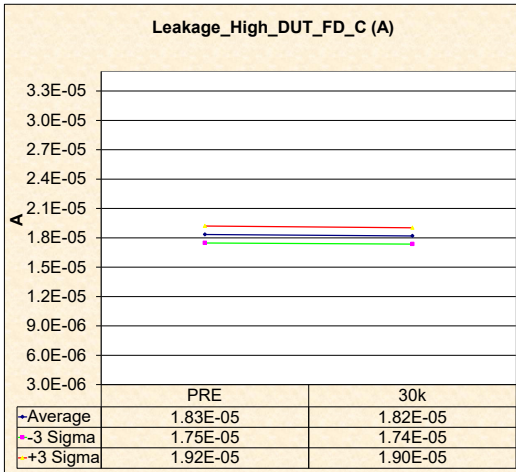
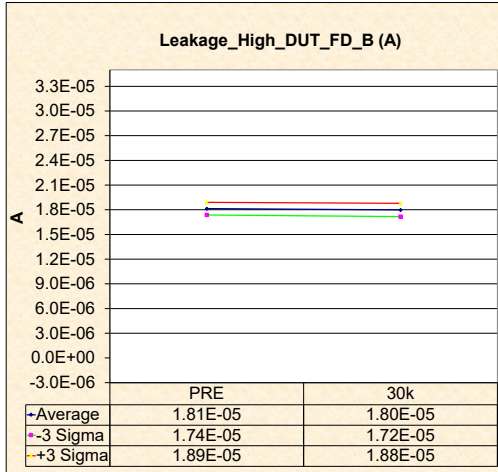
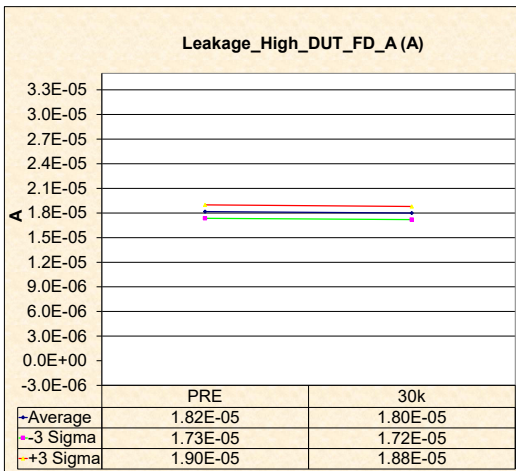
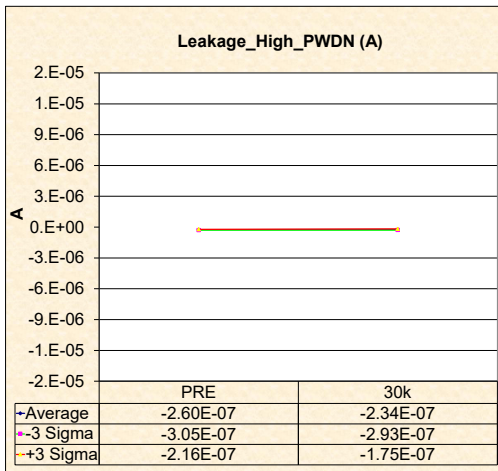
		SFDR_C_155M (dBFS)		SNRFS_D_155M (dBFS)		SINAD_D_155M (dBFS)	
SN		PRE	30k	PRE	30k	PRE	30k
CTRL	1	87.273	86.897	67.212	67.162	65.999	65.956
	15	85.091	84.716	67.108	66.902	65.854	65.627
	16	86.111	86.026	67.100	66.929	65.942	65.760
	17	85.466	84.548	67.041	66.834	65.863	65.646
	18	87.633	85.543	67.133	66.982	65.926	65.763
	19	87.577	87.001	66.814	66.711	65.681	65.579
	20	85.277	84.737	67.019	66.825	65.837	65.646
	Min	85.091	84.548	66.814	66.711	65.681	65.579
	Max	87.633	87.001	67.133	66.982	65.942	65.763
	Mean	86.192	85.428	67.036	66.864	65.851	65.670
	Std. Dev	1.147	0.960	0.117	0.095	0.093	0.075
	Mean - 3 Sigma	82.752	82.550	66.686	66.577	65.572	65.445
	Mean + 3 Sigma	89.633	88.307	67.386	67.150	66.130	65.896

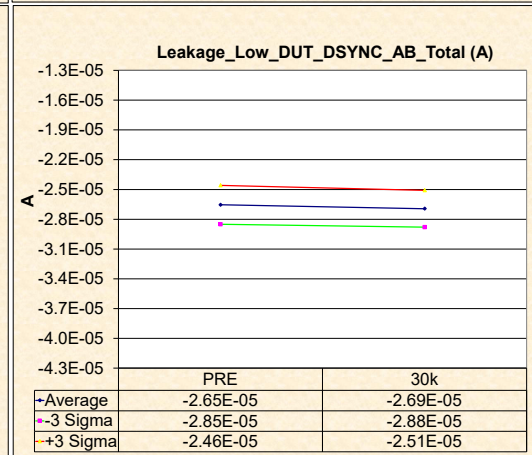
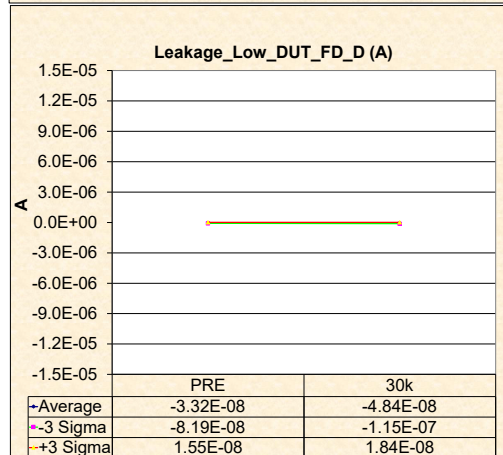
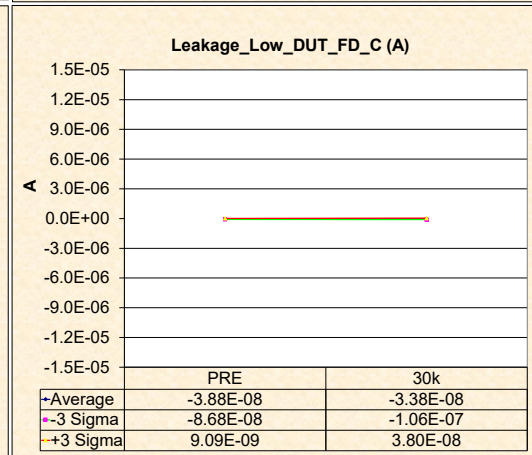
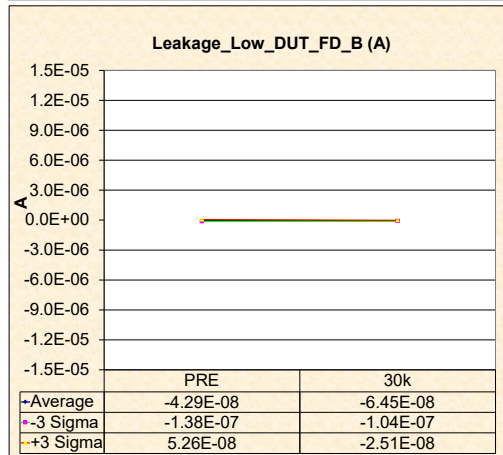
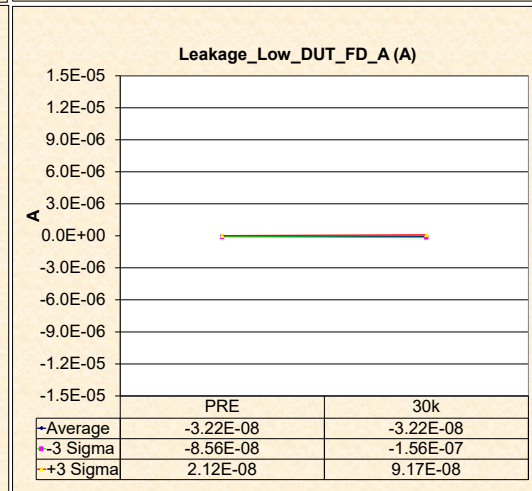
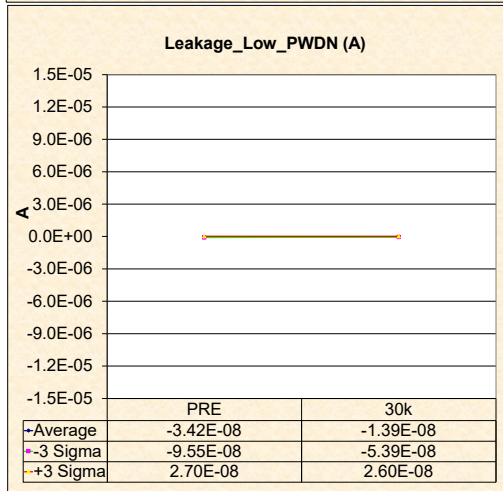
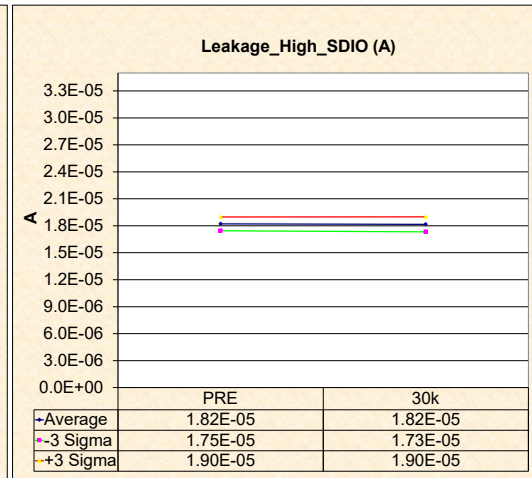
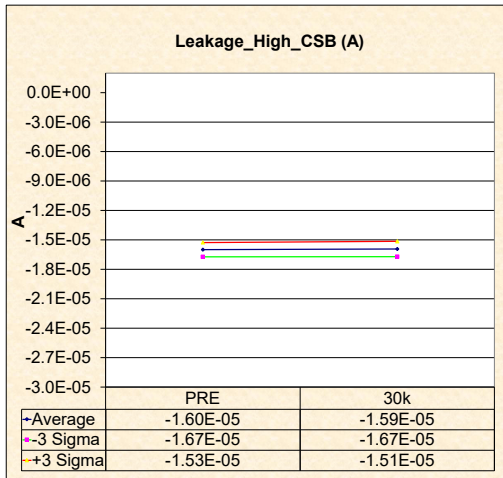
SN	H2_D_155M (dBFS)		H3_D_155M (dBFS)		WOSPUR_D_155M (dBFS)		
	PRE	30k	PRE	30k	PRE	30k	
<b>CTRL</b>	<b>1</b>	<b>83.656</b>	<b>83.373</b>	<b>83.172</b>	<b>83.297</b>	<b>97.797</b>	<b>95.394</b>
	15	82.761	82.882	82.238	81.130	95.342	97.088
	16	85.809	85.786	83.918	83.376	93.469	95.810
	17	86.697	86.415	82.767	82.230	95.628	93.602
	18	84.462	84.102	82.919	82.667	96.269	97.131
	19	86.624	87.033	84.428	84.026	96.542	93.753
	20	84.258	84.469	83.862	83.550	94.713	94.848
	Min	82.761	82.882	82.238	81.130	93.469	93.602
	Max	86.697	87.033	84.428	84.026	96.542	97.131
	Mean	85.102	85.114	83.355	82.830	95.327	95.372
	Std. Dev	1.547	1.565	0.838	1.051	1.121	1.566
	Mean - 3 Sigma	80.461	80.419	80.842	79.677	91.965	90.674
	Mean + 3 Sigma	89.743	89.810	85.869	85.983	98.690	100.070

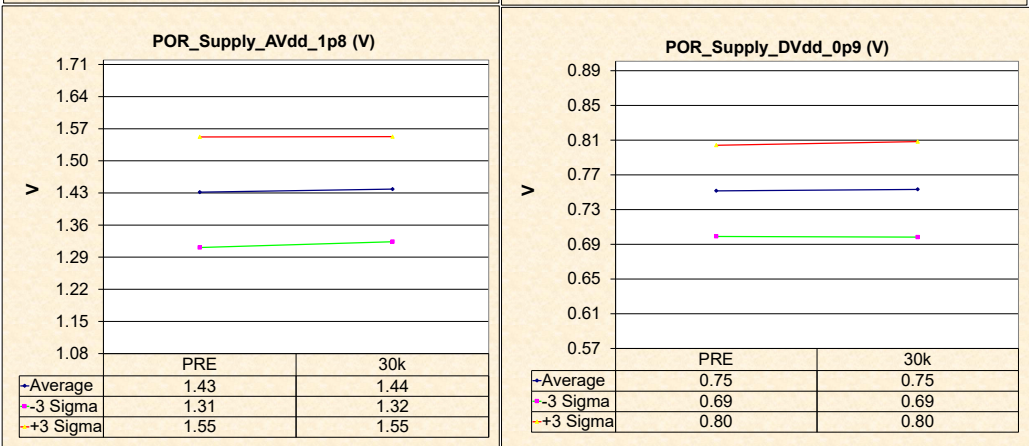
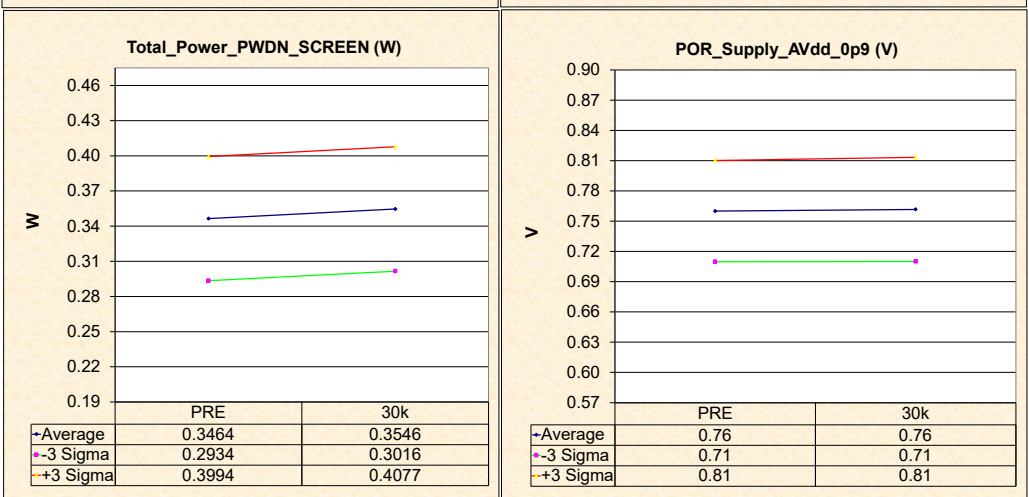
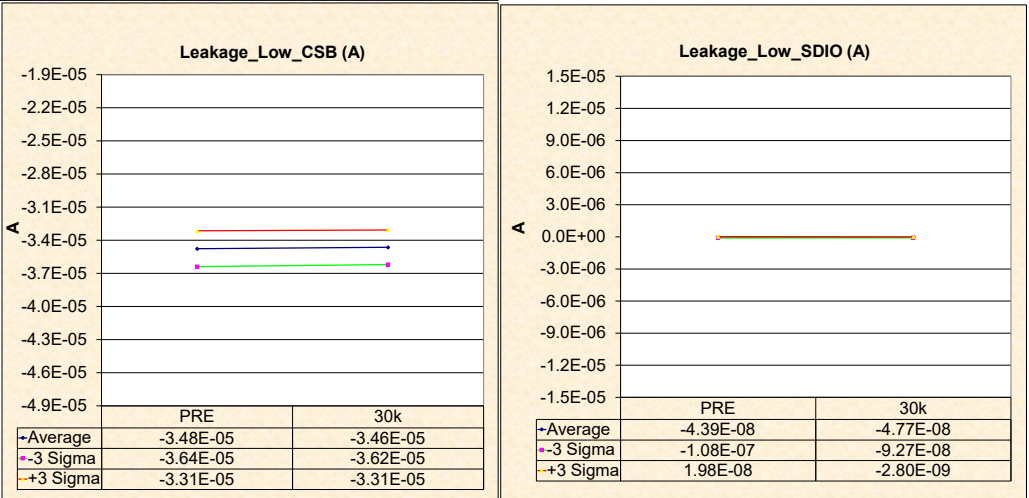
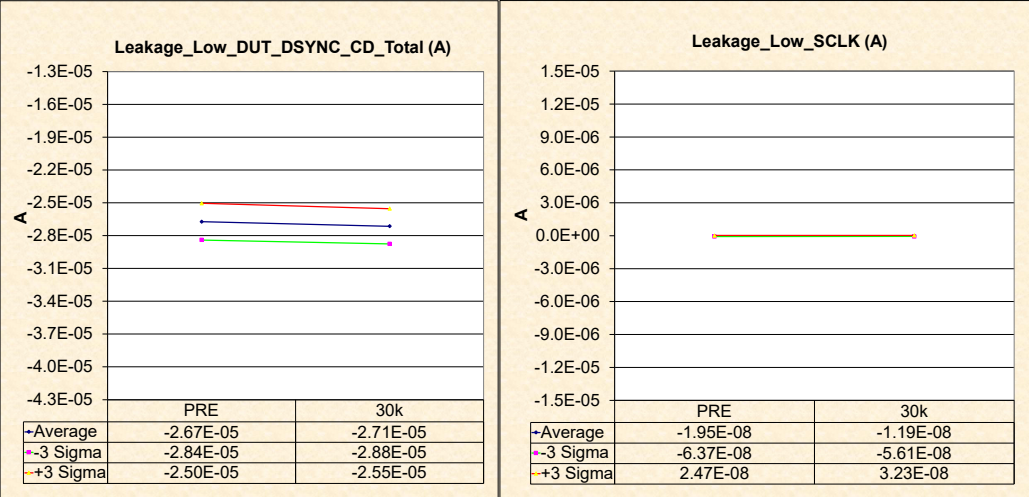
SN	SFDR_D_155M (dBFS)		Total_Power_PWRUP (W)		Total_Power_PwrDn (W)		
	PRE	30k	PRE	30k	PRE	30k	
<b>CTRL</b>	<b>1</b>	<b>83.172</b>	<b>83.297</b>	<b>1.698</b>	<b>1.703</b>	<b>0.335</b>	<b>0.340</b>
	15	82.238	81.130	1.723	1.734	0.360	0.376
	16	83.918	83.376	1.711	1.720	0.354	0.365
	17	82.767	82.230	1.742	1.744	0.379	0.387
	18	82.919	82.667	1.686	1.689	0.337	0.345
	19	84.428	84.026	1.755	1.759	0.394	0.401
	20	83.862	83.550	1.714	1.720	0.360	0.370
	Min	82.238	81.130	1.686	1.689	0.337	0.345
	Max	84.428	84.026	1.755	1.759	0.394	0.401
	Mean	83.355	82.830	1.722	1.728	0.364	0.374
	Std. Dev	0.838	1.051	0.024	0.024	0.020	0.019
	Mean - 3 Sigma	80.842	79.677	1.649	1.655	0.304	0.316
	Mean + 3 Sigma	85.869	85.983	1.795	1.800	0.424	0.432

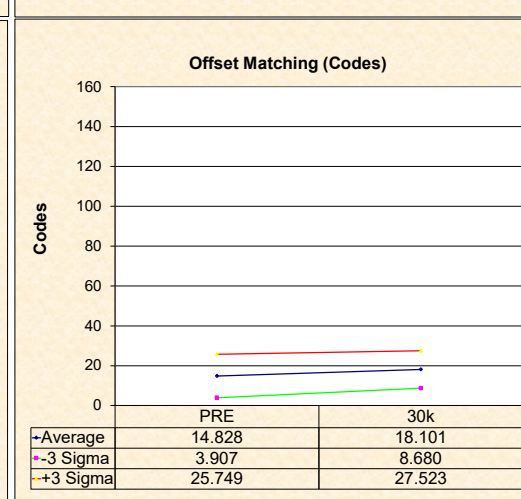
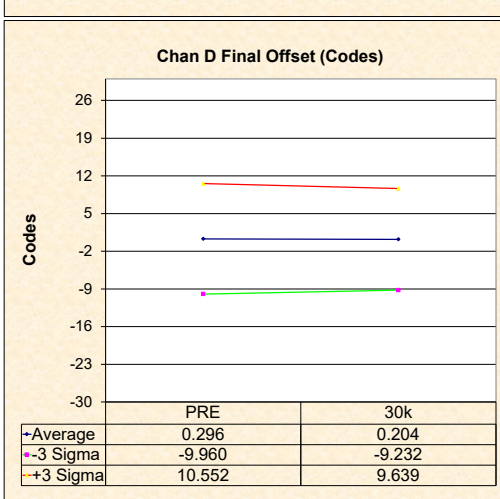
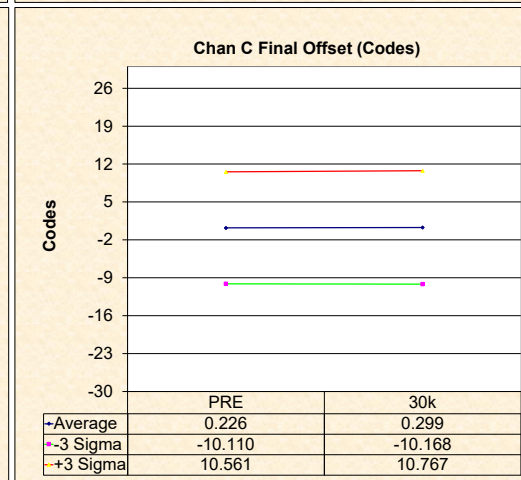
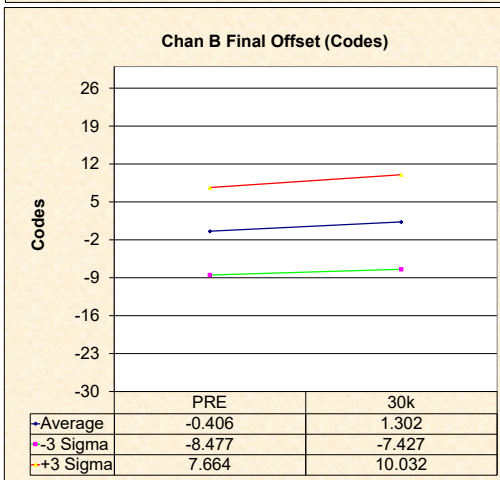
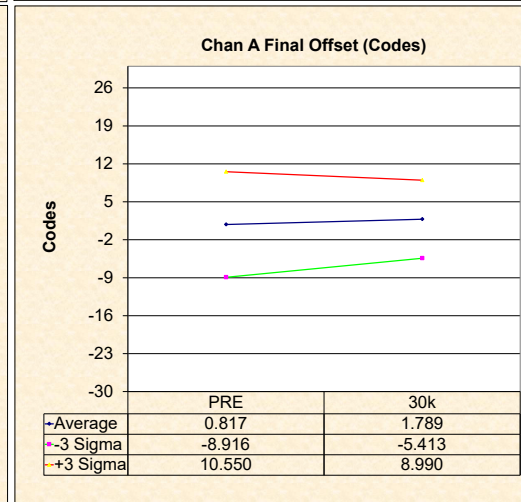
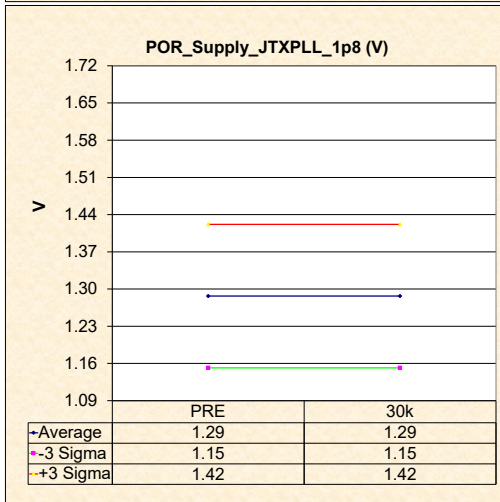
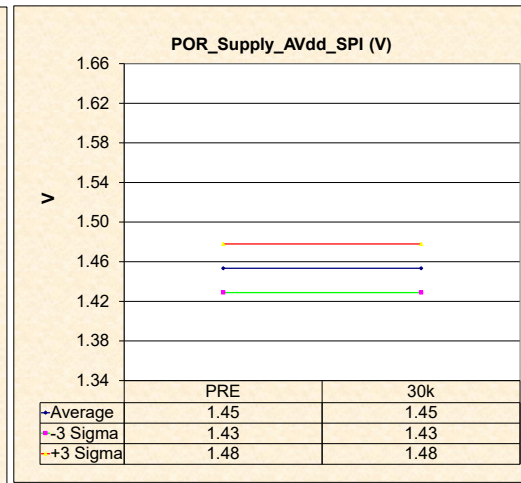
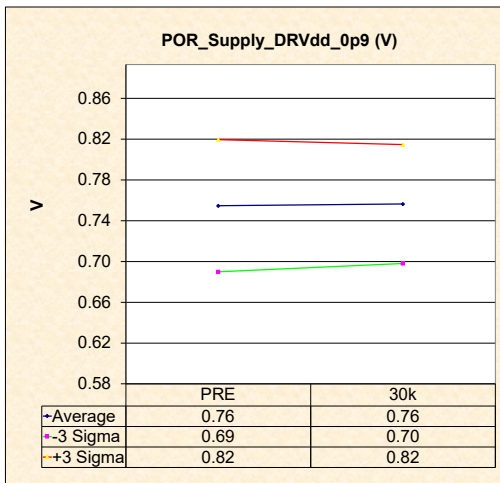
SN	Total_Power_StdBy (W)	
	PRE	30k
<b>CTRL</b>	<b>1</b>	<b>1.166</b>
	15	1.190
	16	1.185
	17	1.211
	18	1.161
	19	1.217
	20	1.187
	Min	1.161
	Max	1.217
	Mean	1.192
	Std. Dev	0.020
	Mean - 3 Sigma	1.131
	Mean + 3 Sigma	1.252

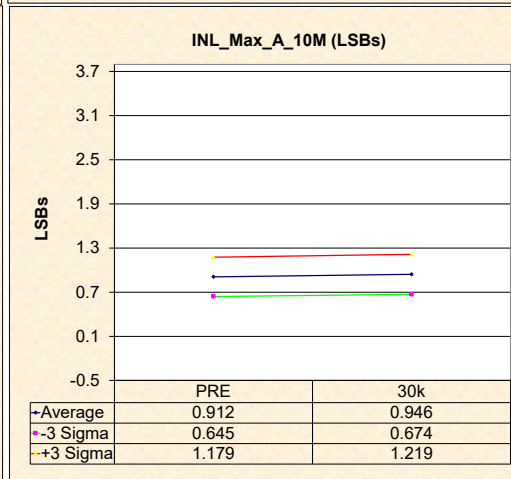
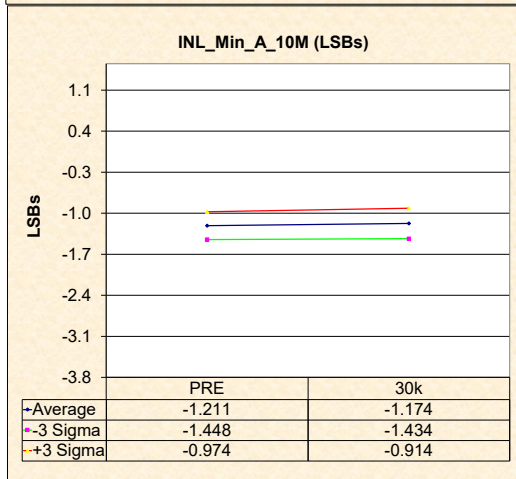
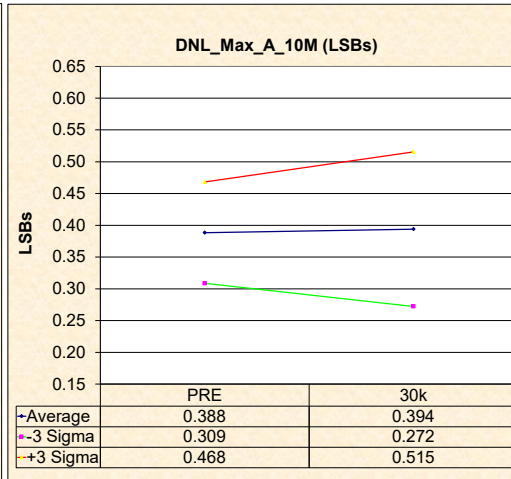
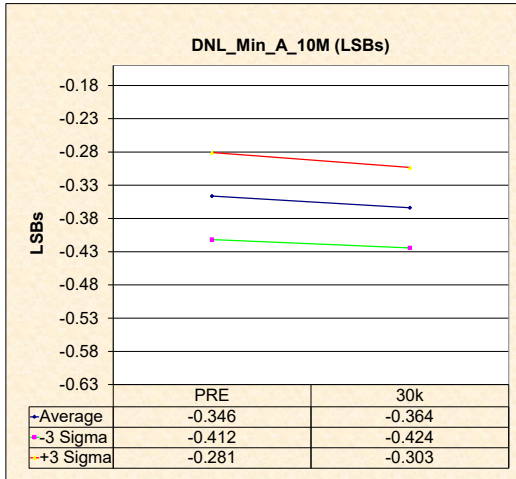
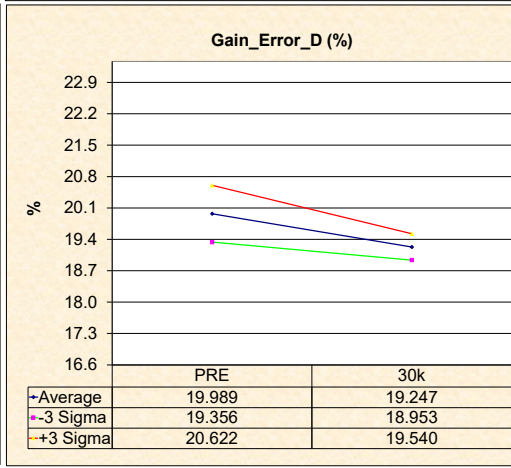
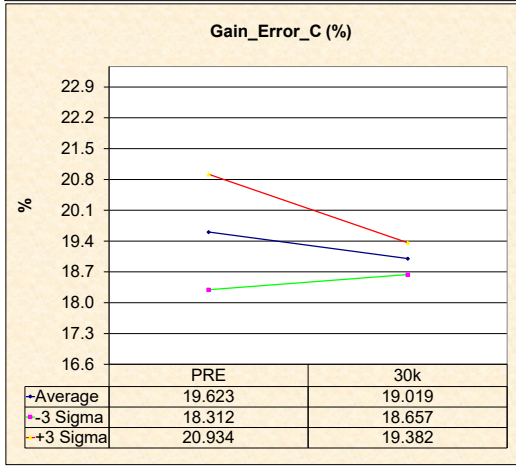
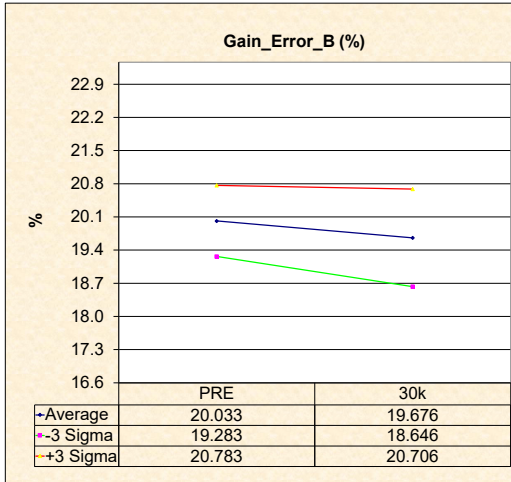
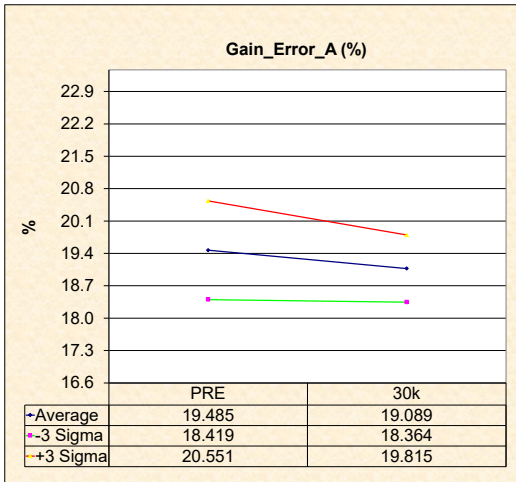


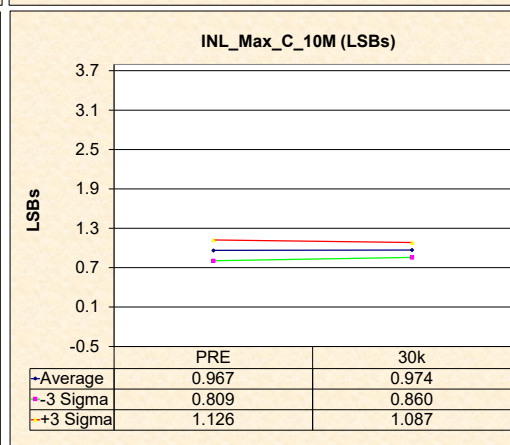
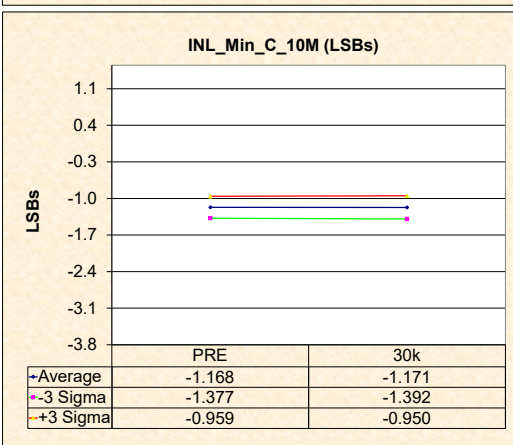
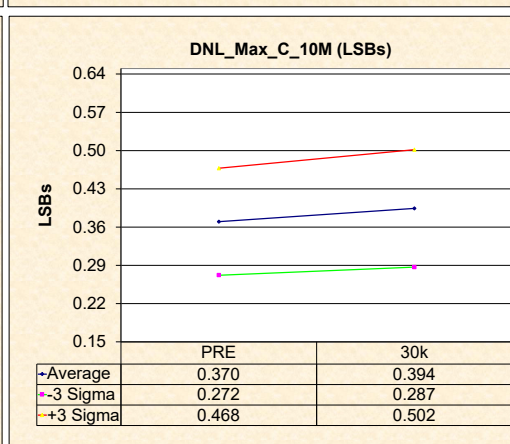
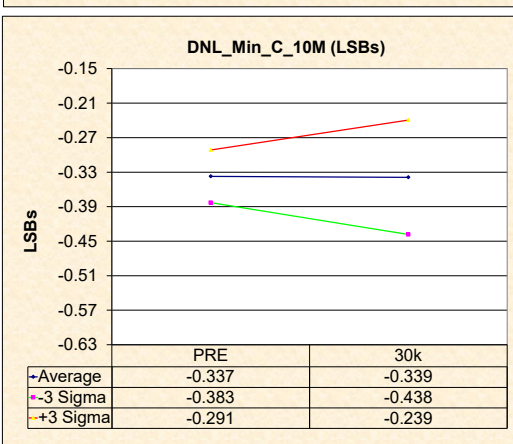
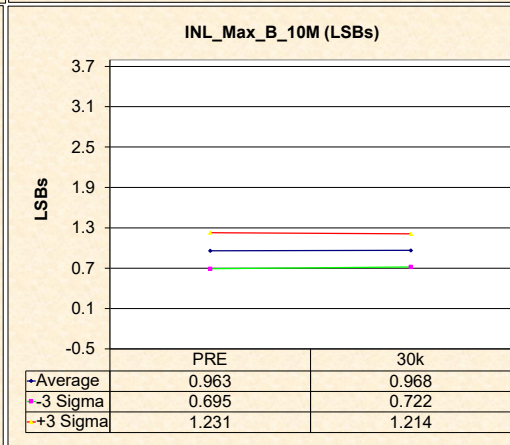
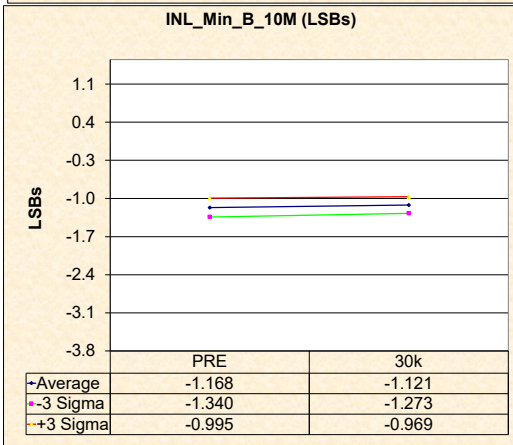
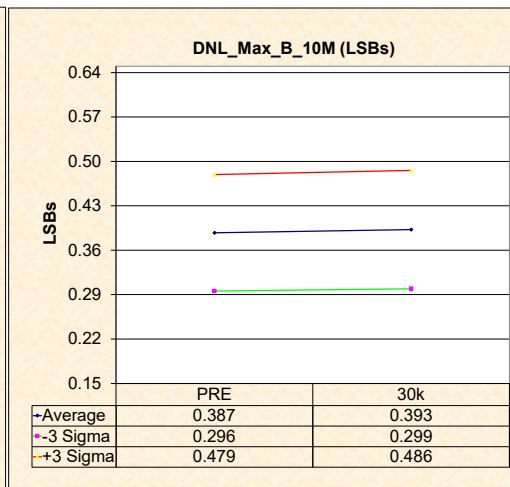
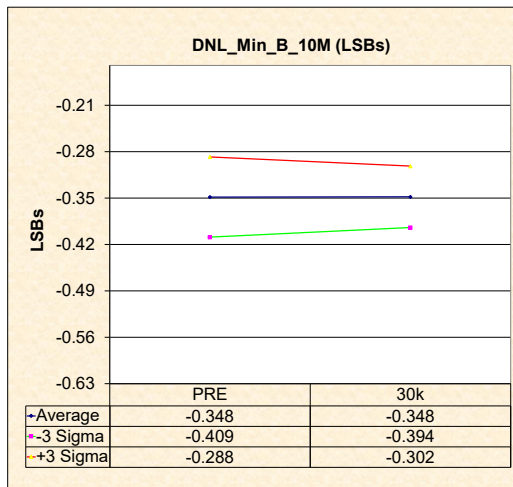




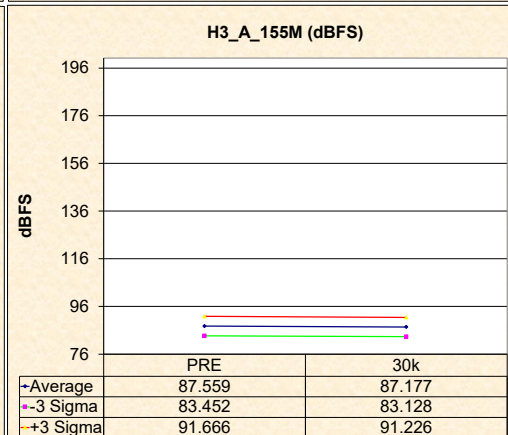
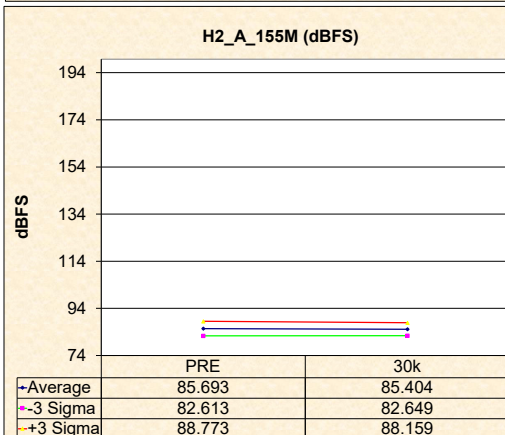
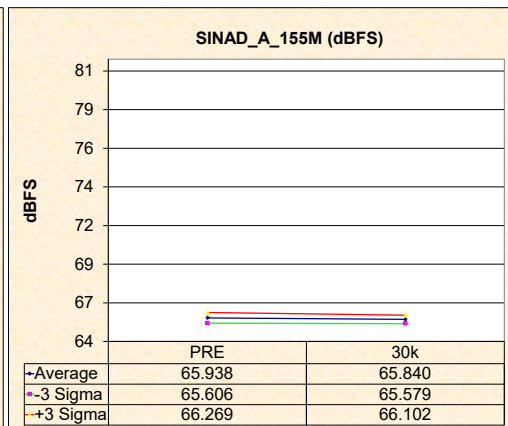
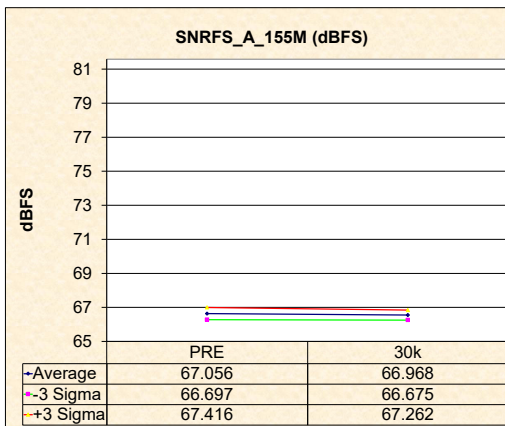
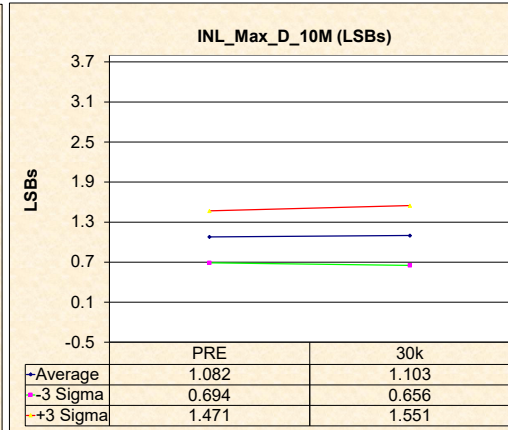
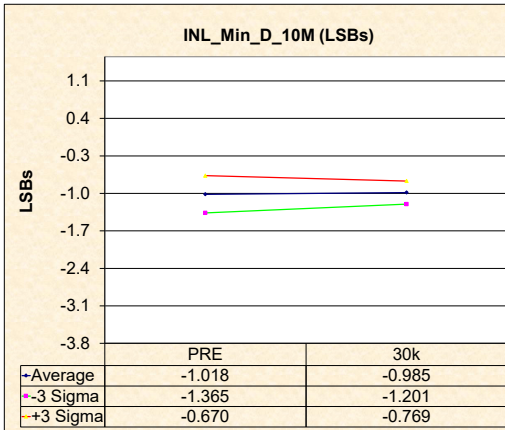
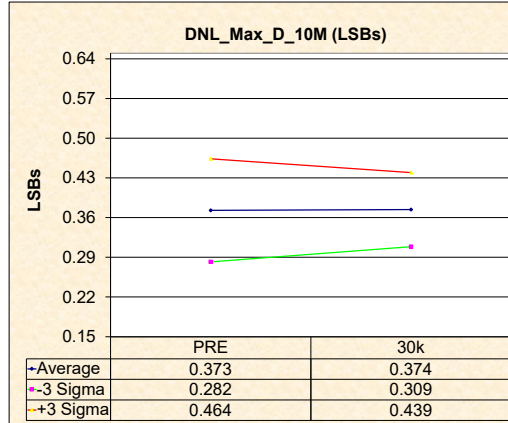
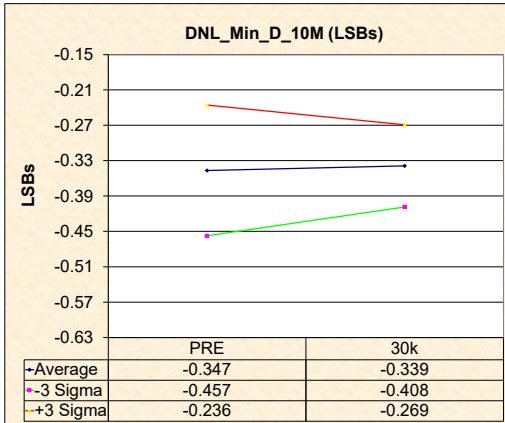


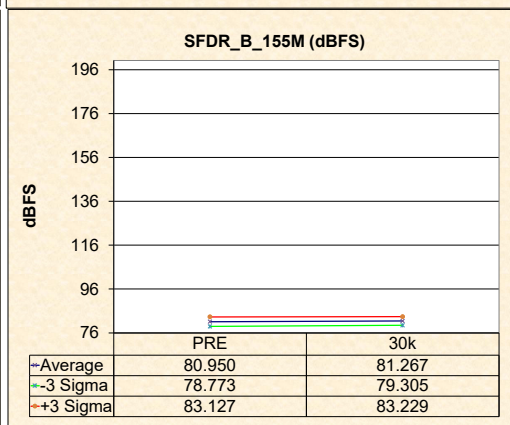
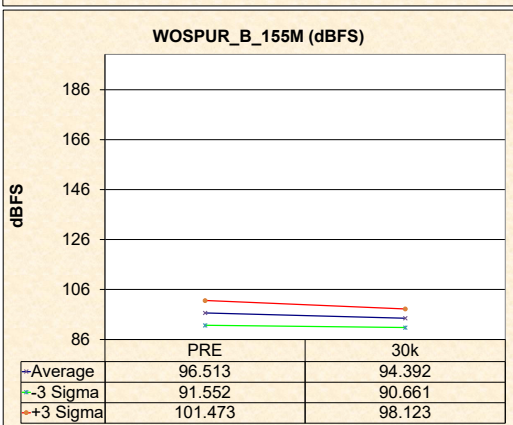
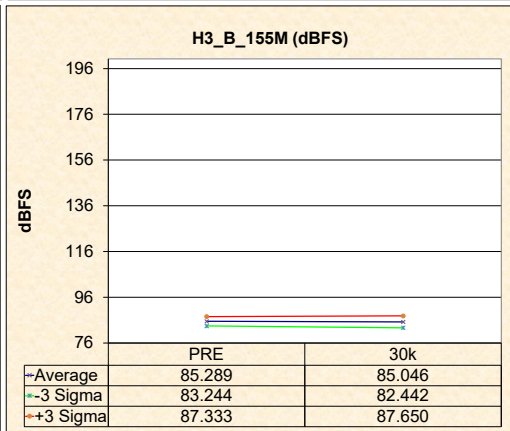
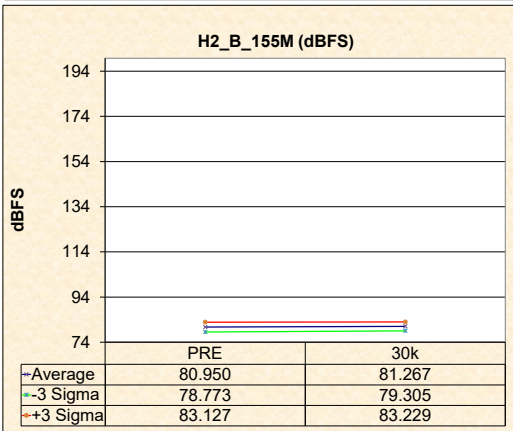
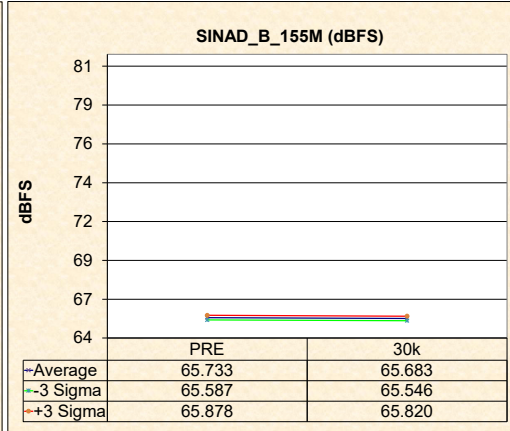
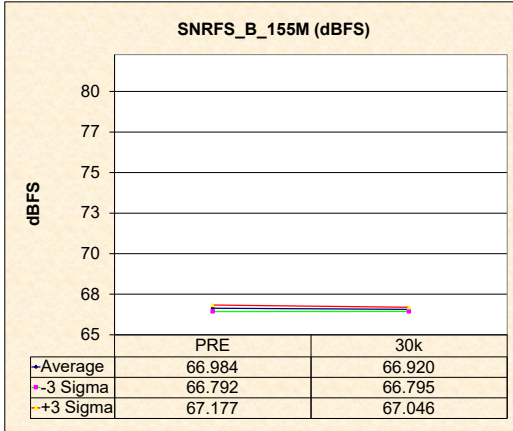
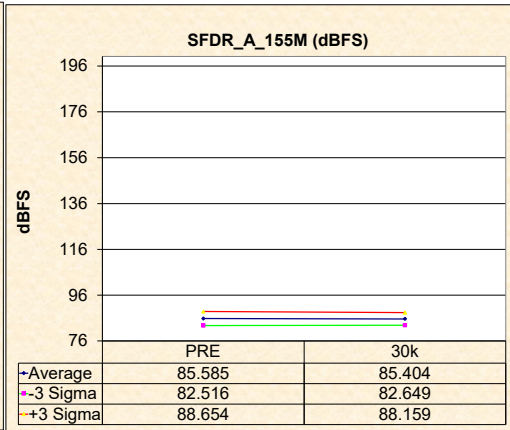
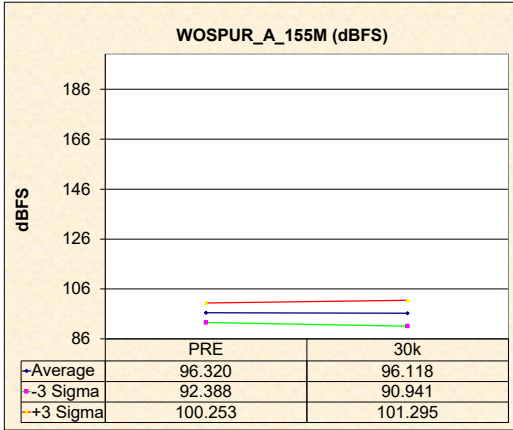




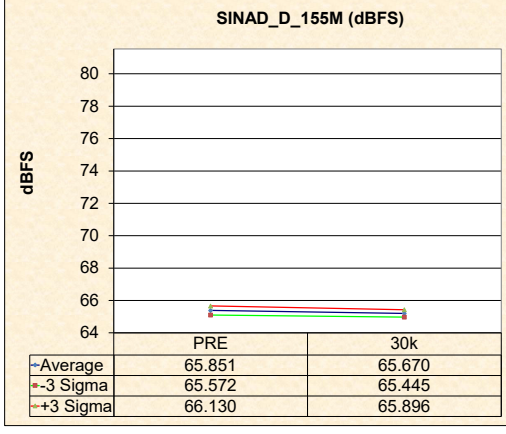
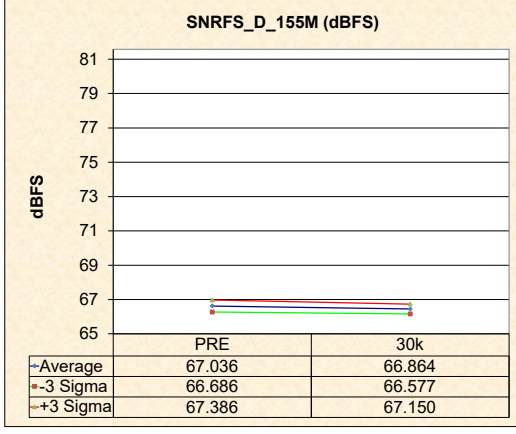
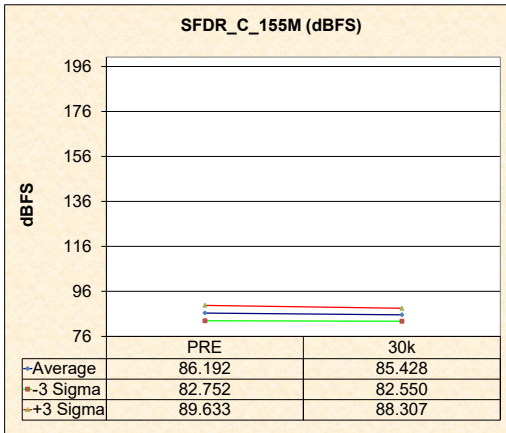
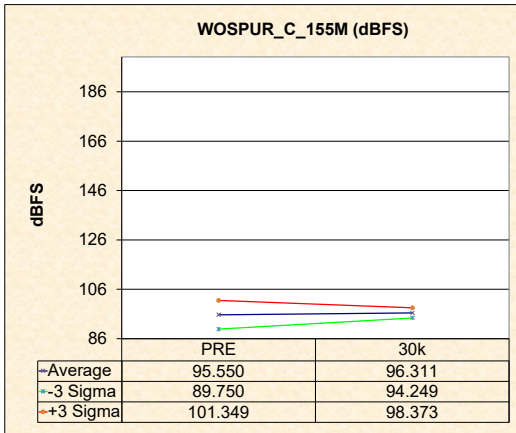
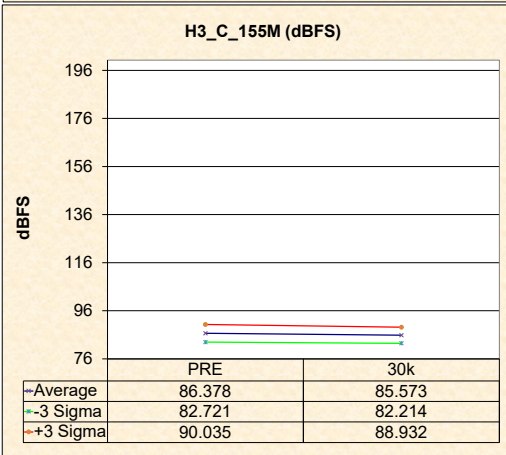
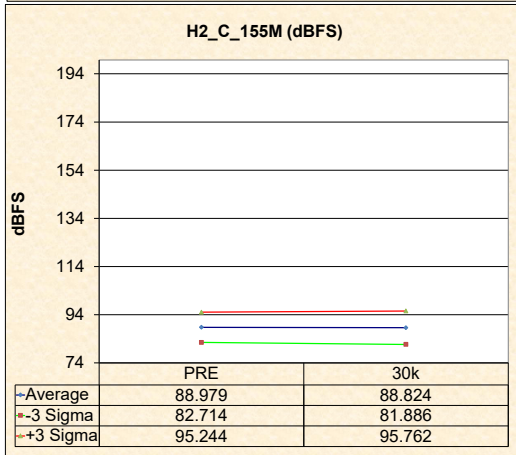
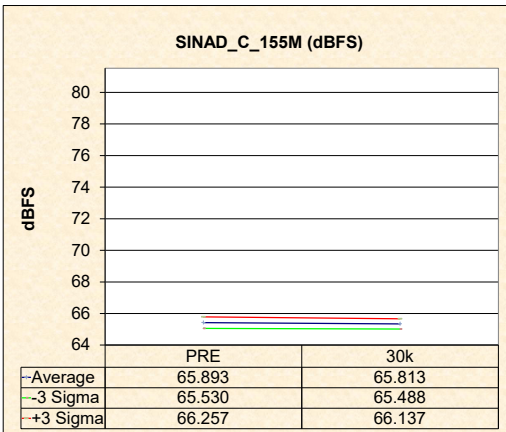
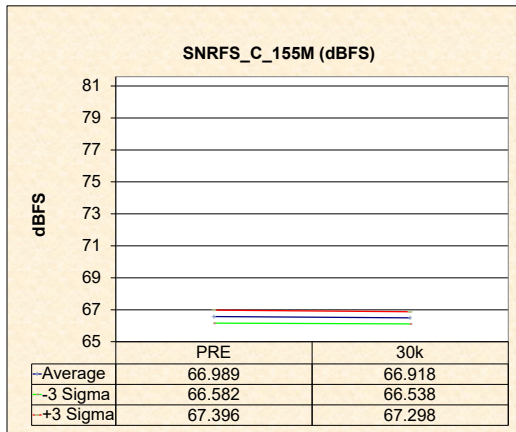


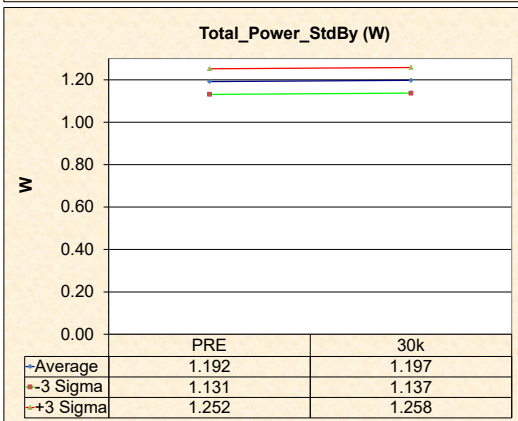
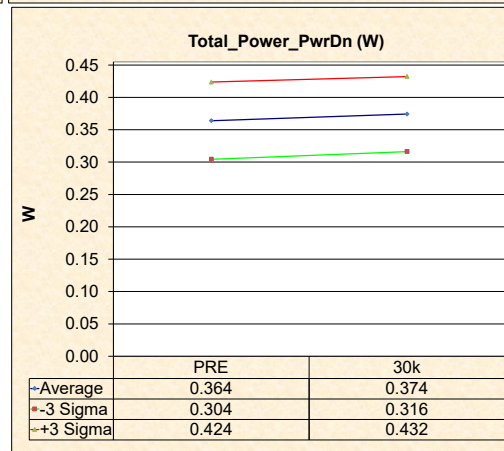
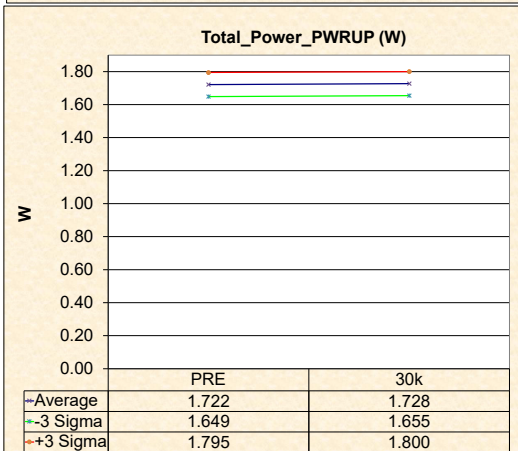
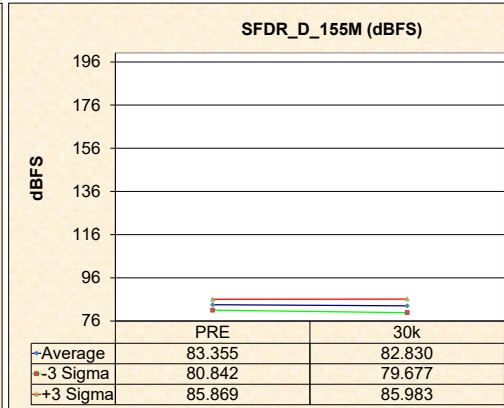
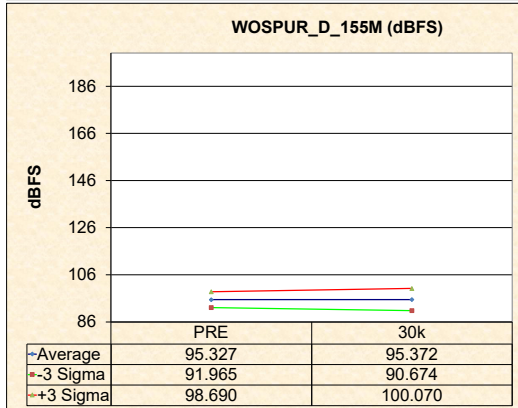
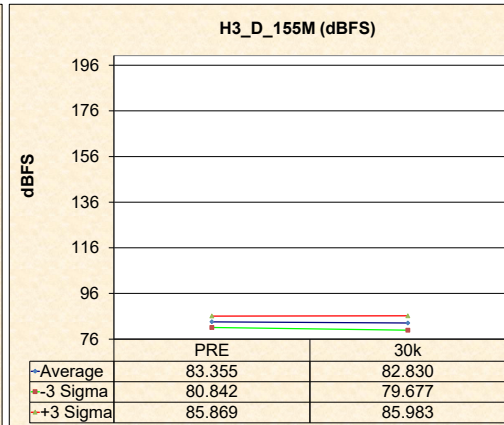
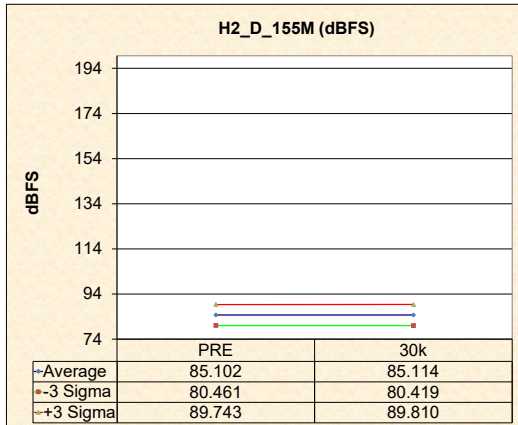












		Leakage_High_PWDN (A)		Leakage_High_DUT_FD_A (A)		Leakage_High_DUT_FD_B (A)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	-2.59E-07	-2.21E-07	1.79E-05	1.78E-05	1.78E-05	1.78E-05
	9	-2.59E-07	-2.29E-07	1.83E-05	1.82E-05	1.82E-05	1.81E-05
	10	-2.44E-07	-2.36E-07	1.77E-05	1.76E-05	1.77E-05	1.76E-05
	11	-2.44E-07	-2.74E-07	1.83E-05	1.82E-05	1.82E-05	1.82E-05
	12	-2.44E-07	-1.98E-07	1.82E-05	1.81E-05	1.82E-05	1.81E-05
	13	-2.44E-07	-2.44E-07	1.82E-05	1.82E-05	1.82E-05	1.81E-05
	14	-2.67E-07	-2.29E-07	1.80E-05	1.79E-05	1.81E-05	1.79E-05
	Min	-2.67E-07	-2.74E-07	1.77E-05	1.76E-05	1.77E-05	1.76E-05
	Max	-2.44E-07	-1.98E-07	1.83E-05	1.82E-05	1.82E-05	1.82E-05
	Mean	-2.50E-07	-2.35E-07	1.81E-05	1.80E-05	1.81E-05	1.80E-05
	Std. Dev	1.01E-08	2.47E-08	2.32E-07	2.16E-07	1.87E-07	2.16E-07
	Mean - 3 Sigma	-2.81E-07	-3.09E-07	1.74E-05	1.74E-05	1.75E-05	1.74E-05
	Mean + 3 Sigma	-2.20E-07	-1.61E-07	1.88E-05	1.87E-05	1.87E-05	1.86E-05

		Leakage_High_DUT_FD_C (A)		Leakage_High_DUT_FD_D (A)		Leakage_High_DUT_DSUNY_AB_Total (A)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	1.79E-05	1.79E-05	1.78E-05	1.78E-05	3.92E-05	3.95E-05
	9	1.86E-05	1.85E-05	1.86E-05	1.84E-05	3.78E-05	3.73E-05
	10	1.79E-05	1.78E-05	1.78E-05	1.77E-05	3.89E-05	3.84E-05
	11	1.82E-05	1.81E-05	1.82E-05	1.81E-05	3.81E-05	3.77E-05
	12	1.82E-05	1.81E-05	1.82E-05	1.81E-05	3.80E-05	3.76E-05
	13	1.83E-05	1.82E-05	1.82E-05	1.81E-05	3.65E-05	3.62E-05
	14	1.82E-05	1.81E-05	1.82E-05	1.80E-05	3.86E-05	3.83E-05
	Min	1.79E-05	1.78E-05	1.78E-05	1.77E-05	3.65E-05	3.62E-05
	Max	1.86E-05	1.85E-05	1.86E-05	1.84E-05	3.89E-05	3.84E-05
	Mean	1.83E-05	1.81E-05	1.82E-05	1.81E-05	3.80E-05	3.76E-05
	Std. Dev	2.27E-07	2.13E-07	2.46E-07	2.29E-07	8.21E-07	8.02E-07
	Mean - 3 Sigma	1.76E-05	1.75E-05	1.75E-05	1.74E-05	3.55E-05	3.52E-05
	Mean + 3 Sigma	1.89E-05	1.88E-05	1.90E-05	1.88E-05	4.04E-05	4.00E-05

		Leakage_High_DUT_DSUNY_CD_Total (A)		Leakage_High_SCLK (A)		Leakage_High_CSB (A)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	4.06E-05	4.09E-05	1.79E-05	1.78E-05	-1.57E-05	-1.56E-05
	9	3.99E-05	3.95E-05	1.84E-05	1.84E-05	-1.62E-05	-1.61E-05
	10	4.13E-05	4.10E-05	1.77E-05	1.77E-05	-1.55E-05	-1.56E-05
	11	3.92E-05	3.89E-05	1.82E-05	1.81E-05	-1.59E-05	-1.58E-05
	12	4.07E-05	4.03E-05	1.81E-05	1.82E-05	-1.59E-05	-1.59E-05
	13	3.90E-05	3.85E-05	1.82E-05	1.82E-05	-1.60E-05	-1.59E-05
	14	3.91E-05	3.88E-05	1.81E-05	1.81E-05	-1.59E-05	-1.59E-05
	Min	3.90E-05	3.85E-05	1.77E-05	1.77E-05	-1.62E-05	-1.61E-05
	Max	4.13E-05	4.10E-05	1.84E-05	1.84E-05	-1.55E-05	-1.56E-05
	Mean	3.99E-05	3.95E-05	1.81E-05	1.81E-05	-1.59E-05	-1.59E-05
	Std. Dev	9.56E-07	9.52E-07	2.37E-07	2.11E-07	2.03E-07	1.82E-07
	Mean - 3 Sigma	3.70E-05	3.66E-05	1.74E-05	1.75E-05	-1.65E-05	-1.64E-05
	Mean + 3 Sigma	4.28E-05	4.24E-05	1.88E-05	1.87E-05	-1.53E-05	-1.53E-05

		Leakage_High_SDIO (A)		Leakage_Low_PWDN (A)		Leakage_Low_DUT_FD_A (A)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	1.79E-05	1.78E-05	-2.66E-08	-4.95E-08	7.61E-10	-6.01E-08
	9	1.84E-05	1.84E-05	-6.47E-08	-3.80E-09	-1.45E-08	-2.97E-08
	10	1.77E-05	1.77E-05	-3.42E-08	-4.18E-08	-2.21E-08	-4.49E-08
	11	1.82E-05	1.81E-05	-4.95E-08	-3.42E-08	7.61E-10	-3.73E-08
	12	1.81E-05	1.81E-05	-3.80E-09	-1.14E-08	-6.01E-08	-2.21E-08
	13	1.82E-05	1.82E-05	-3.42E-08	-3.80E-09	-2.97E-08	-5.25E-08
	14	1.81E-05	1.81E-05	-2.66E-08	-3.80E-09	-2.97E-08	-6.01E-08
	Min	1.77E-05	1.77E-05	-6.47E-08	-4.18E-08	-6.01E-08	-6.01E-08
	Max	1.84E-05	1.84E-05	-3.80E-09	-3.80E-09	7.61E-10	-2.21E-08
	Mean	1.81E-05	1.81E-05	-3.55E-08	-1.65E-08	-2.59E-08	-4.11E-08
	Std. Dev	2.15E-07	2.16E-07	2.07E-08	1.71E-08	2.03E-08	1.42E-08
	Mean - 3 Sigma	1.75E-05	1.75E-05	-9.75E-08	-6.79E-08	-8.67E-08	-8.38E-08
	Mean + 3 Sigma	1.88E-05	1.88E-05	2.64E-08	3.49E-08	3.50E-08	1.62E-09

CTRL	SN	Leakage_Low_DUT_FD_B (A)		Leakage_Low_DUT_FD_C (A)		Leakage_Low_DUT_FD_D (A)	
		PRE	50k	PRE	50k	PRE	50k
	1	-1.75E-08	-6.32E-08	-4.65E-08	-2.36E-08	-3.19E-08	-4.71E-08
	9	-4.04E-08	-7.08E-08	-2.36E-08	-3.12E-08	-3.95E-08	-7.75E-08
	10	-4.04E-08	-5.56E-08	-3.88E-08	-8.38E-09	-6.99E-08	-3.95E-08
	11	-4.04E-08	-5.56E-08	-4.65E-08	-1.60E-08	-1.67E-08	-1.52E-09
	12	-7.84E-08	-5.56E-08	-4.65E-08	-1.60E-08	-3.19E-08	-5.47E-08
	13	-5.56E-08	-9.37E-08	-3.12E-08	-4.65E-08	-6.99E-08	-6.23E-08
	14	-4.80E-08	-4.80E-08	-3.88E-08	-5.41E-08	-3.19E-08	-3.19E-08
	Min	-7.84E-08	-9.37E-08	-4.65E-08	-5.41E-08	-6.99E-08	-7.75E-08
	Max	-4.04E-08	-4.80E-08	-2.36E-08	-8.38E-09	-1.67E-08	-1.52E-09
	Mean	-5.05E-08	-6.32E-08	-3.76E-08	-2.87E-08	-4.33E-08	-4.46E-08
	Std. Dev	1.50E-08	1.67E-08	8.90E-09	1.84E-08	2.19E-08	2.66E-08
	Mean - 3 Sigma	-9.54E-08	-1.13E-07	-6.43E-08	-8.40E-08	-1.09E-07	-1.24E-07
	Mean + 3 Sigma	-5.59E-09	-1.32E-08	-1.09E-08	2.67E-08	2.24E-08	3.53E-08

CTRL	SN	Leakage_Low_DUT_DSINCR_AB_Total (A)		Leakage_Low_DUT_DSINCR_CD_Total (A)		Leakage_Low_SCLK (A)	
		PRE	50k	PRE	50k	PRE	50k
	1	-2.74E-05	-2.74E-05	-2.80E-05	-2.80E-05	-1.82E-08	-3.04E-09
	9	-2.69E-05	-2.75E-05	-2.65E-05	-2.71E-05	-4.10E-08	-1.82E-08
	10	-2.71E-05	-2.76E-05	-2.74E-05	-2.80E-05	-4.10E-08	-2.58E-08
	11	-2.57E-05	-2.62E-05	-2.64E-05	-2.70E-05	-4.10E-08	-2.58E-08
	12	-2.57E-05	-2.64E-05	-2.68E-05	-2.73E-05	-3.34E-08	-3.34E-08
	13	-2.67E-05	-2.72E-05	-2.61E-05	-2.67E-05	-5.62E-08	-2.58E-08
	14	-2.67E-05	-2.73E-05	-2.66E-05	-2.71E-05	-3.34E-08	-2.58E-08
	Min	-2.71E-05	-2.76E-05	-2.74E-05	-2.80E-05	-5.62E-08	-3.34E-08
	Max	-2.57E-05	-2.62E-05	-2.61E-05	-2.67E-05	-3.34E-08	-1.82E-08
	Mean	-2.65E-05	-2.70E-05	-2.66E-05	-2.72E-05	-4.10E-08	-2.58E-08
	Std. Dev	6.26E-07	5.73E-07	4.28E-07	4.58E-07	8.32E-09	4.81E-09
	Mean - 3 Sigma	-2.83E-05	-2.87E-05	-2.79E-05	-2.86E-05	-6.60E-08	-4.02E-08
	Mean + 3 Sigma	-2.46E-05	-2.53E-05	-2.54E-05	-2.58E-05	-1.61E-08	-1.14E-08

CTRL	SN	Leakage_Low_CSBB (A)		Leakage_Low_SDIO (A)		Total_Power_PWDN_SCREEN (W)	
		PRE	50k	PRE	50k	PRE	50k
	1	-3.41E-05	-3.39E-05	-7.31E-08	-4.27E-08	0.3221	0.3254
	9	-3.51E-05	-3.51E-05	-5.03E-08	-5.79E-08	0.3429	0.3464
	10	-3.38E-05	-3.38E-05	-4.27E-08	-7.31E-08	0.3608	0.3679
	11	-3.46E-05	-3.45E-05	-5.03E-08	-1.98E-08	0.3478	0.3546
	12	-3.46E-05	-3.46E-05	-6.55E-08	-8.07E-08	0.3493	0.3572
	13	-3.47E-05	-3.47E-05	-7.31E-08	-7.31E-08	0.3684	0.3761
	14	-3.46E-05	-3.45E-05	-4.27E-08	-6.55E-08	0.3573	0.3631
	Min	-3.51E-05	-3.51E-05	-7.31E-08	-8.07E-08	0.3429	0.3464
	Max	-3.38E-05	-3.38E-05	-4.27E-08	-1.98E-08	0.3684	0.3761
	Mean	-3.46E-05	-3.45E-05	-5.41E-08	-6.17E-08	0.3544	0.3609
	Std. Dev	4.44E-07	4.44E-07	1.25E-08	2.19E-08	0.0095	0.0105
	Mean - 3 Sigma	-3.59E-05	-3.59E-05	-9.16E-08	-1.28E-07	0.3260	0.3295
	Mean + 3 Sigma	-3.32E-05	-3.32E-05	-1.65E-08	4.14E-09	0.3828	0.3923

CTRL	SN	POR_Supply_AVDD_0p9 (V)		POR_Supply_AVDD_1p8 (V)		POR_Supply_DVDD_0p9 (V)	
		PRE	50k	PRE	50k	PRE	50k
	1	0.73	0.73	1.33	1.32	0.73	0.73
	9	0.74	0.75	1.46	1.47	0.75	0.75
	10	0.72	0.72	1.34	1.34	0.73	0.73
	11	0.73	0.73	1.40	1.40	0.77	0.77
	12	0.74	0.74	1.40	1.40	0.73	0.73
	13	0.75	0.75	1.39	1.39	0.77	0.77
	14	0.74	0.75	1.43	1.43	0.75	0.75
	Min	0.72	0.72	1.34	1.34	0.73	0.73
	Max	0.75	0.75	1.46	1.47	0.77	0.77
	Mean	0.74	0.74	1.40	1.40	0.75	0.75
	Std. Dev	0.01	0.01	0.04	0.04	0.02	0.02
	Mean - 3 Sigma	0.71	0.70	1.28	1.28	0.70	0.70
	Mean + 3 Sigma	0.77	0.78	1.52	1.53	0.80	0.80

		POR_Supply_DRVdd_0p9 (V)		POR_Supply_AVdd_SPI (V)		POR_Supply_JTXPLL_1p8 (V)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	0.76	0.76	1.45	1.45	1.31	1.31
	9	0.74	0.75	1.46	1.46	1.30	1.30
	10	0.73	0.73	1.45	1.45	1.26	1.26
	11	0.75	0.75	1.47	1.48	1.30	1.30
	12	0.77	0.77	1.45	1.45	1.36	1.36
	13	0.74	0.74	1.47	1.48	1.30	1.30
	14	0.75	0.75	1.45	1.45	1.30	1.30
	Min	0.73	0.73	1.45	1.45	1.26	1.26
	Max	0.77	0.77	1.47	1.48	1.36	1.36
	Mean	0.75	0.75	1.46	1.46	1.30	1.30
	Std. Dev	0.01	0.01	0.01	0.01	0.03	0.03
	Mean - 3 Sigma	0.71	0.71	1.43	1.42	1.21	1.21
	Mean + 3 Sigma	0.79	0.79	1.49	1.51	1.40	1.40

		Chan A Final Offset (Codes)		Chan B Final Offset (Codes)		Chan C Final Offset (Codes)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	4.625	-0.537	1.685	0.549	-2.283	-1.864
	9	-4.646	-2.602	1.774	0.132	-0.468	0.339
	10	4.503	1.754	2.581	3.703	0.064	0.863
	11	-0.430	-2.975	-0.747	-0.220	-4.533	1.927
	12	0.159	-0.907	-1.121	-2.610	0.522	-0.193
	13	2.392	4.101	-2.119	-2.374	1.464	-0.676
	14	0.278	-2.217	-2.931	-3.351	2.174	0.151
	Min	-4.646	-2.975	-2.931	-3.351	-4.533	-0.676
	Max	4.503	4.101	2.581	3.703	2.174	1.927
	Mean	0.376	-0.475	-0.427	-0.787	-0.130	0.402
	Std. Dev	3.067	2.825	2.173	2.598	2.358	0.908
	Mean - 3 Sigma	-8.825	-8.949	-6.946	-8.580	-7.205	-2.322
	Mean + 3 Sigma	9.576	8.000	6.091	7.007	6.946	3.125

		Chan D Final Offset (Codes)		Offset Matching (%FSR)		Gain_Error_A (%)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	-2.013	-3.218	17.263	24.737	19.460	19.211
	9	0.558	-0.298	22.040	20.637	19.409	18.724
	10	0.467	1.782	27.665	24.338	19.024	18.571
	11	2.086	2.473	18.198	14.788	19.688	18.455
	12	3.178	2.933	19.092	19.496	19.363	18.265
	13	2.120	1.100	20.090	20.149	19.267	18.281
	14	4.125	4.111	19.717	14.414	19.371	18.075
	Min	0.467	-0.298	18.198	14.414	19.024	18.075
	Max	4.125	4.111	27.665	24.338	19.688	18.724
	Mean	2.089	2.017	21.134	18.970	19.354	18.395
	Std. Dev	1.436	1.529	3.446	3.782	0.215	0.235
	Mean - 3 Sigma	-2.218	-2.570	10.796	7.625	18.708	17.691
	Mean + 3 Sigma	6.396	6.604	31.471	30.315	19.999	19.099

		Gain_Error_B (%)		Gain_Error_C (%)		Gain_Error_D (%)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	20.087	20.036	19.528	19.177	19.562	19.682
	9	20.275	19.540	19.053	18.411	19.885	19.007
	10	20.183	19.367	19.307	18.520	20.153	18.835
	11	20.297	19.683	19.623	18.531	20.229	19.065
	12	19.151	18.765	19.562	18.517	19.931	18.541
	13	19.753	19.213	19.258	18.705	20.076	18.904
	14	20.457	19.305	19.916	18.746	20.205	19.052
	Min	19.151	18.765	19.053	18.411	19.885	18.541
	Max	20.457	19.683	19.916	18.746	20.229	19.065
	Mean	20.019	19.312	19.453	18.572	20.080	18.901
	Std. Dev	0.487	0.317	0.308	0.128	0.144	0.197
	Mean - 3 Sigma	18.558	18.362	18.529	18.189	19.648	18.309
	Mean + 3 Sigma	21.481	20.263	20.378	18.954	20.511	19.492

SN	DNL_Min_A_10M (LSBs)		DNL_Max_A_10M (LSBs)		INL_Min_A_10M (LSBs)	
	PRE	50k	PRE	50k	PRE	50k
CTRL 1	-0.335	-0.322	0.373	0.338	-1.253	-1.306
9	-0.362	-0.326	0.387	0.341	-1.280	-1.247
10	-0.344	-0.308	0.376	0.423	-1.231	-1.191
11	-0.329	-0.375	0.336	0.373	-1.344	-1.347
12	-0.329	-0.348	0.360	0.377	-1.190	-1.178
13	-0.425	-0.352	0.388	0.365	-1.208	-1.147
14	-0.306	-0.324	0.375	0.404	-1.226	-1.197
Min	-0.425	-0.375	0.336	0.341	-1.344	-1.347
Max	-0.306	-0.308	0.388	0.423	-1.190	-1.147
Mean	-0.349	-0.339	0.370	0.380	-1.246	-1.218
Std. Dev	0.042	0.024	0.020	0.029	0.056	0.071
Mean - 3 Sigma	-0.474	-0.411	0.311	0.294	-1.416	-1.431
Mean + 3 Sigma	-0.224	-0.267	0.429	0.467	-1.077	-1.004

SN	INL_Max_A_10M (LSBs)		DNL_Min_B_10M (LSBs)		DNL_Max_B_10M (LSBs)	
	PRE	50k	PRE	50k	PRE	50k
CTRL 1	0.973	0.995	-0.360	-0.375	0.354	0.413
9	0.926	0.886	-0.343	-0.424	0.428	0.347
10	1.085	1.045	-0.360	-0.330	0.347	0.376
11	1.168	1.133	-0.340	-0.363	0.393	0.363
12	0.818	0.845	-0.344	-0.315	0.363	0.417
13	0.826	0.844	-0.337	-0.388	0.382	0.372
14	0.847	0.877	-0.325	-0.337	0.365	0.455
Min	0.818	0.844	-0.360	-0.424	0.347	0.347
Max	1.168	1.133	-0.325	-0.315	0.428	0.455
Mean	0.945	0.939	-0.341	-0.360	0.380	0.388
Std. Dev	0.148	0.121	0.011	0.041	0.029	0.040
Mean - 3 Sigma	0.500	0.575	-0.376	-0.483	0.293	0.267
Mean + 3 Sigma	1.389	1.302	-0.307	-0.236	0.466	0.509

SN	INL_Min_B_10M (LSBs)		INL_Max_B_10M (LSBs)		DNL_Min_C_10M (LSBs)	
	PRE	50k	PRE	50k	PRE	50k
CTRL 1	-1.115	-1.139	0.924	0.876	-0.355	-0.332
9	-0.967	-0.998	0.881	0.828	-0.303	-0.411
10	-1.121	-1.119	0.965	0.927	-0.370	-0.336
11	-1.049	-1.014	0.849	0.789	-0.334	-0.398
12	-1.264	-1.174	0.929	0.858	-0.372	-0.413
13	-1.381	-1.302	1.016	0.989	-0.338	-0.325
14	-1.155	-1.101	0.904	0.941	-0.358	-0.314
Min	-1.381	-1.302	0.849	0.789	-0.372	-0.413
Max	-0.967	-0.998	1.016	0.989	-0.303	-0.314
Mean	-1.156	-1.118	0.924	0.889	-0.346	-0.366
Std. Dev	0.149	0.112	0.060	0.076	0.026	0.046
Mean - 3 Sigma	-1.602	-1.453	0.744	0.661	-0.424	-0.504
Mean + 3 Sigma	-0.710	-0.783	1.104	1.116	-0.268	-0.228

SN	DNL_Max_C_10M (LSBs)		INL_Min_C_10M (LSBs)		INL_Max_C_10M (LSBs)	
	PRE	50k	PRE	50k	PRE	50k
CTRL 1	0.341	0.329	-1.102	-1.070	1.124	1.037
9	0.340	0.356	-1.260	-1.349	1.123	1.114
10	0.398	0.428	-0.913	-0.990	0.970	1.004
11	0.517	0.393	-1.284	-1.276	0.982	0.968
12	0.379	0.340	-1.299	-1.293	0.894	0.975
13	0.365	0.349	-1.065	-1.141	0.901	0.971
14	0.396	0.347	-1.334	-1.368	1.076	1.105
Min	0.340	0.340	-1.334	-1.368	0.894	0.968
Max	0.517	0.428	-0.913	-0.990	1.123	1.114
Mean	0.399	0.389	-1.193	-1.236	0.991	1.023
Std. Dev	0.061	0.034	0.167	0.145	0.093	0.069
Mean - 3 Sigma	0.215	0.266	-1.692	-1.670	0.713	0.817
Mean + 3 Sigma	0.583	0.472	-0.693	-0.803	1.269	1.229

		DNL_Min_D_10M (LSBs)		DNL_Max_D_10M (LSBs)		INL_Min_D_10M (LSBs)	
SN		PRE	50k	PRE	50k	PRE	50k
<b>CTRL</b>	<b>1</b>	<b>-0.349</b>	<b>-0.324</b>	<b>0.380</b>	<b>0.370</b>	<b>-0.914</b>	<b>-1.020</b>
	9	-0.370	-0.350	0.391	0.403	-0.898	-0.901
	10	-0.321	-0.352	0.336	0.377	-0.950	-1.129
	11	-0.385	-0.384	0.341	0.353	-0.909	-1.035
	12	-0.355	-0.357	0.351	0.339	-1.013	-1.027
	13	-0.403	-0.320	0.398	0.368	-1.006	-1.088
	14	-0.368	-0.310	0.423	0.434	-0.893	-0.949
	Min	-0.403	-0.384	0.336	0.339	-1.013	-1.129
	Max	-0.321	-0.310	0.423	0.434	-0.893	-0.901
	Mean	-0.367	-0.345	0.373	0.379	-0.945	-1.021
	Std. Dev	0.028	0.027	0.036	0.034	0.054	0.085
	Mean - 3 Sigma	-0.451	-0.426	0.266	0.276	-1.107	-1.276
	Mean + 3 Sigma	-0.283	-0.265	0.481	0.482	-0.783	-0.767

		INL_Max_D_10M (LSBs)		SNRFS_A_155M (dBFS)		SINAD_A_155M (dBFS)	
SN		PRE	50k	PRE	50k	PRE	50k
<b>CTRL</b>	<b>1</b>	<b>0.888</b>	<b>0.996</b>	<b>67.108</b>	<b>67.015</b>	<b>65.968</b>	<b>65.867</b>
	9	0.866	0.892	67.194	67.110	66.066	65.996
	10	0.977	0.977	66.931	66.817	65.813	65.700
	11	0.926	1.013	67.058	66.949	65.892	65.778
	12	1.013	1.058	67.033	66.924	65.923	65.821
	13	1.048	1.196	66.942	66.836	65.842	65.752
	14	1.083	1.130	66.958	66.876	65.852	65.779
	Min	0.866	0.892	66.931	66.817	65.813	65.700
	Max	1.083	1.196	67.194	67.110	66.066	65.996
	Mean	0.985	1.044	67.019	67.019	65.898	65.804
	Std. Dev	0.080	0.109	0.100	0.106	0.091	0.102
	Mean - 3 Sigma	0.746	0.717	66.720	66.600	65.625	65.498
	Mean + 3 Sigma	1.225	1.371	67.319	67.238	66.171	66.110

		H2_A_155M (dBFS)		H3_A_155M (dBFS)		WOSPUR_A_155M (dBFS)	
SN		PRE	50k	PRE	50k	PRE	50k
<b>CTRL</b>	<b>1</b>	<b>84.796</b>	<b>84.274</b>	<b>86.726</b>	<b>86.412</b>	<b>97.821</b>	<b>94.163</b>
	9	86.391	86.829	86.535	86.629	94.416	93.703
	10	84.674	84.717	89.365	89.361	96.951	96.375
	11	84.546	84.438	84.714	84.751	94.366	92.846
	12	86.264	86.455	88.141	88.859	95.727	96.051
	13	85.767	87.100	89.922	89.775	92.690	94.147
	14	85.992	86.617	87.975	88.046	97.518	97.702
	Min	84.546	84.438	84.714	84.751	92.690	92.846
	Max	86.391	87.100	89.922	89.775	97.518	97.702
	Mean	85.606	86.026	87.775	87.904	95.278	95.137
	Std. Dev	0.802	1.146	1.909	1.904	1.805	1.857
	Mean - 3 Sigma	83.200	82.587	82.049	82.191	89.863	89.568
	Mean + 3 Sigma	88.012	89.465	93.502	93.616	100.693	100.707

		SFDR_A_155M (dBFS)		SNRFS_B_155M (dBFS)		SINAD_B_155M (dBFS)	
SN		PRE	50k	PRE	50k	PRE	50k
<b>CTRL</b>	<b>1</b>	<b>84.796</b>	<b>84.274</b>	<b>67.126</b>	<b>67.059</b>	<b>65.886</b>	<b>65.832</b>
	9	86.391	86.629	67.034	66.992	65.797	65.751
	10	84.674	84.717	66.916	66.852	65.692	65.622
	11	84.546	84.438	67.031	66.872	65.779	65.623
	12	86.264	86.455	66.904	66.765	65.660	65.533
	13	85.767	87.100	66.847	66.786	65.585	65.543
	14	85.992	86.617	66.880	66.824	65.634	65.600
	Min	84.546	84.438	66.847	66.765	65.585	65.533
	Max	86.391	87.100	67.034	66.992	65.797	65.751
	Mean	85.606	85.993	66.935	66.849	65.691	65.612
	Std. Dev	0.802	1.121	0.079	0.081	0.083	0.078
	Mean - 3 Sigma	83.200	82.630	66.698	66.606	65.442	65.377
	Mean + 3 Sigma	88.012	89.355	67.173	67.091	65.941	65.847

		H2_B_155M (dBFS)		H3_B_155M (dBFS)		WOSPUR_B_155M (dBFS)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	81.543	81.667	85.494	85.339	97.280	95.394
	9	81.415	81.245	84.480	84.724	95.654	95.890
	10	81.081	81.093	86.270	85.784	96.460	94.429
	11	81.097	80.966	85.046	84.878	97.799	95.782
	12	80.703	81.104	85.912	85.279	95.645	96.196
	13	80.341	80.899	84.914	85.111	96.981	95.222
	14	80.851	81.489	86.005	85.485	95.465	95.318
	Min	80.341	80.899	84.480	84.724	95.465	94.429
	Max	81.415	81.489	86.270	85.784	97.799	96.196
	Mean	80.915	81.133	85.438	85.210	96.334	95.473
	Std. Dev	0.371	0.212	0.719	0.391	0.924	0.627
	Mean - 3 Sigma	79.801	80.497	83.281	84.036	93.561	93.591
	Mean + 3 Sigma	82.029	81.769	87.595	86.384	99.107	97.355

		SFDR_B_155M (dBFS)		SNRFS_C_155M (dBFS)		SINAD_C_155M (dBFS)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	81.543	81.667	67.051	67.034	65.954	65.922
	9	81.415	81.245	66.974	66.910	65.853	65.796
	10	81.081	81.093	66.884	66.819	65.821	65.753
	11	81.097	80.966	66.944	66.850	65.824	65.727
	12	80.703	81.104	66.951	66.893	65.859	65.787
	13	80.341	80.899	66.890	66.856	65.797	65.773
	14	80.851	81.489	67.092	67.024	65.963	65.869
	Min	80.341	80.899	66.884	66.819	65.797	65.727
	Max	81.415	81.489	67.092	67.024	65.963	65.869
	Mean	80.915	81.133	66.956	66.892	65.853	65.784
	Std. Dev	0.371	0.212	0.076	0.072	0.059	0.048
	Mean - 3 Sigma	79.801	80.497	66.729	66.675	65.677	65.639
	Mean + 3 Sigma	82.029	81.769	67.183	67.110	66.029	65.929

		H2_C_155M (dBFS)		H3_C_155M (dBFS)		WOSPUR_C_155M (dBFS)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	87.463	86.897	87.273	87.334	96.384	94.894
	9	85.415	86.088	87.227	87.013	96.839	96.019
	10	93.636	91.374	87.583	86.683	99.068	97.721
	11	84.405	84.102	88.442	88.250	96.735	94.665
	12	88.017	87.124	86.708	85.811	94.490	96.433
	13	90.756	90.139	86.051	85.582	95.498	96.418
	14	88.479	88.142	84.053	83.270	97.435	95.909
	Min	84.405	84.102	84.053	83.270	94.490	94.665
	Max	93.636	91.374	88.442	88.250	99.068	97.721
	Mean	88.451	87.828	86.677	86.101	96.677	96.194
	Std. Dev	3.405	2.662	1.518	1.683	1.581	0.989
	Mean - 3 Sigma	78.236	79.843	82.124	81.053	91.935	93.228
	Mean + 3 Sigma	98.666	95.813	91.231	91.150	101.420	99.160

		SFDR_C_155M (dBFS)		SNRFS_D_155M (dBFS)		SINAD_D_155M (dBFS)	
SN		PRE	50k	PRE	50k	PRE	50k
CTRL	1	87.273	86.897	67.212	67.162	65.999	65.956
	9	85.415	86.088	66.993	66.904	65.827	65.730
	10	87.583	86.683	67.071	66.840	65.862	65.623
	11	84.405	84.102	67.011	66.914	65.850	65.756
	12	86.708	85.811	67.035	66.818	65.815	65.593
	13	86.051	85.582	66.993	66.886	65.798	65.687
	14	84.053	83.270	67.038	66.912	65.847	65.739
	Min	84.053	83.270	66.993	66.818	65.798	65.593
	Max	87.583	86.683	67.071	66.914	65.862	65.756
	Mean	85.702	85.256	67.024	66.879	65.833	65.688
	Std. Dev	1.353	1.298	0.030	0.041	0.024	0.067
	Mean - 3 Sigma	81.643	81.363	66.933	66.757	65.761	65.487
	Mean + 3 Sigma	89.762	89.149	67.114	67.001	65.905	65.889



SN	H2_D_155M (dBFS)		H3_D_155M (dBFS)		WOSPUR_D_155M (dBFS)		
	PRE	50k	PRE	50k	PRE	50k	
CTRL	1	83.656	83.373	83.172	83.297	97.797	95.394
	9	85.730	85.255	83.719	83.341	96.414	95.603
	10	84.404	84.089	82.978	82.370	98.326	95.599
	11	84.053	84.078	84.983	84.659	95.379	96.719
	12	82.855	82.653	83.674	83.360	94.345	91.481
	13	84.904	85.424	82.537	82.211	96.132	96.163
	14	84.284	84.817	83.590	83.484	95.401	95.240
	Min	82.855	82.653	82.537	82.211	94.345	91.481
	Max	85.730	85.424	84.983	84.659	98.326	96.719
	Mean	84.372	84.386	83.580	83.237	96.000	95.134
	Std. Dev	0.953	1.020	0.830	0.885	1.348	1.864
	Mean - 3 Sigma	81.514	81.325	81.089	80.584	91.956	89.544
	Mean + 3 Sigma	87.229	87.447	86.071	85.891	100.043	100.725

SN	SFDR_D_155M (dBFS)		Total_Power_PWRUP (W)		Total_Power_PwrDn (W)		
	PRE	50k	PRE	50k	PRE	50k	
CTRL	1	83.172	83.297	1.698	1.703	0.335	0.340
	9	83.719	83.341	1.713	1.707	0.361	0.365
	10	82.978	82.370	1.744	1.743	0.379	0.389
	11	84.053	84.078	1.735	1.732	0.366	0.373
	12	82.855	82.653	1.728	1.728	0.366	0.379
	13	82.537	82.211	1.752	1.751	0.389	0.400
	14	83.590	83.484	1.741	1.738	0.376	0.383
	Min	82.537	82.211	1.713	1.707	0.361	0.365
	Max	84.053	84.078	1.752	1.751	0.389	0.400
	Mean	83.289	83.023	1.735	1.733	0.373	0.382
	Std. Dev	0.585	0.728	0.014	0.015	0.011	0.012
	Mean - 3 Sigma	81.535	80.840	1.694	1.688	0.341	0.345
	Mean + 3 Sigma	85.042	85.206	1.777	1.779	0.405	0.418

SN	Total_Power_StdBy (W)		
	PRE	50k	
CTRL	1	1.166	1.169
	9	1.187	1.187
	10	1.206	1.208
	11	1.199	1.199
	12	1.197	1.201
	13	1.216	1.218
	14	1.204	1.204
	Min	1.187	1.187
	Max	1.216	1.218
	Mean	1.201	1.203
	Std. Dev	0.010	0.011
	Mean - 3 Sigma	1.173	1.171
	Mean + 3 Sigma	1.230	1.234

