

HIGH DOSE RADIATION TEST REPORT ADRF5144-CSL

October 2025

Generic

Radiation Test Report	
Product:	ADRF5144-CSL
Gamma:	0,100k
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	152 Rad/s
Facilities:	VPT RAD
Tested:	July 23rd, 2025

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	SN	Idd_LO (uA)		Iss_LO (uA)		Idd_HI (uA)		
		PRE	100k	PRE	100k	PRE	100k	
100k Biased	CTRL	24	131.26	131.62	-505.61	-506.02	131.26	131.62
	1	132.08	150.72	-507.94	-570.74	132.08	158.85	
	2	129.88	153.04	-501.82	-573.91	129.88	156.76	
	3	130.25	145.66	-500.20	-550.67	130.25	148.31	
	4	130.86	152.64	-504.09	-563.36	130.86	157.85	
	5	131.93	151.32	-505.51	-561.69	131.93	158.65	
	6	131.81	153.57	-503.10	-574.08	131.81	163.42	
	7	132.29	155.97	-507.78	-577.15	132.29	159.60	
	8	130.01	148.49	-502.65	-559.90	130.02	152.27	
	9	130.68	150.57	-502.32	-565.43	130.69	154.52	
	10	131.30	152.29	-504.48	-567.99	131.30	157.84	
	11	131.38	150.44	-501.37	-558.78	131.38	152.51	
	12	129.66	147.01	-499.06	-553.42	129.65	149.25	
	13	134.77	150.87	-509.82	-567.31	134.77	156.50	
	14	131.60	157.86	-499.68	-576.11	131.60	161.29	
	15	129.92	152.64	-502.64	-575.17	129.92	161.69	
	16	131.74	149.72	-502.73	-558.87	131.74	153.89	
	17	129.11	150.95	-496.74	-564.85	129.11	155.23	
	18	129.23	147.00	-499.06	-553.55	129.22	155.36	
	19	131.73	153.68	-505.95	-573.51	131.73	160.03	
	20	129.78	150.95	-500.97	-567.81	129.78	158.57	
	21	131.93	153.94	-505.27	-572.61	131.93	158.69	
	22	135.07	149.29	-513.77	-563.08	135.08	155.41	
	Min	129.11	145.66	-513.77	-577.15	129.11	148.31	
Max	135.07	157.86	-496.74	-550.67	135.08	163.42		
Mean	131.23	151.30	-503.50	-565.91	131.23	156.66		
Std. Dev	1.55	2.89	3.94	7.85	1.55	3.85		
Mean - 3 Sigma	126.57	142.63	-515.32	-589.46	126.57	145.12		
Mean + 3 Sigma	135.88	159.97	-491.68	-542.36	135.89	168.19		

	SN	Iss_HI (uA)		RF1_IL_650MHz (dB)		RF1_ISOL 650MHz (dB)		
		PRE	100k	PRE	100k	PRE	100k	
100k Biased	CTRL	24	-505.57	-506.00	-0.42	-0.44	84.86	79.53
	1	-507.98	-575.03	-0.45	-0.59	87.03	85.06	
	2	-501.83	-574.38	-0.45	-0.54	84.81	88.31	
	3	-500.19	-551.70	-0.42	-0.51	85.47	85.33	
	4	-504.14	-559.36	-0.43	-0.52	85.02	84.97	
	5	-505.49	-558.45	-0.43	-0.52	86.39	82.45	
	6	-503.13	-580.22	-0.45	-0.51	88.39	90.93	
	7	-507.77	-577.89	-0.44	-0.58	88.20	80.58	
	8	-502.62	-561.88	-0.44	-0.59	83.26	82.48	
	9	-502.33	-567.25	-0.44	-0.53	83.01	81.50	
	10	-504.49	-570.80	-0.43	-0.47	82.67	80.89	
	11	-501.39	-559.18	-0.44	-0.54	82.68	79.22	
	12	-499.05	-554.03	-0.46	-0.56	80.71	83.72	
	13	-509.82	-570.81	-0.46	-0.56	83.22	79.30	
	14	-499.71	-575.87	-0.45	-0.51	82.10	81.40	
	15	-502.68	-580.10	-0.44	-0.52	90.19	90.51	
	16	-502.72	-561.21	-0.47	-0.48	86.64	82.30	
	17	-496.75	-566.31	-0.46	-0.56	84.88	86.11	
	18	-499.03	-559.28	-0.46	-0.47	81.04	80.66	
	19	-505.96	-577.04	-0.46	-0.49	86.88	86.13	
	20	-500.99	-572.27	-0.46	-0.50	80.97	79.53	
	21	-505.27	-574.38	-0.45	-0.55	81.21	84.25	
	22	-513.78	-567.48	-0.46	-0.47	80.74	79.02	
	Min	-513.78	-580.22	-0.47	-0.59	80.71	79.02	
Max	-496.75	-551.70	-0.42	-0.47	90.19	90.93		
Mean	-503.51	-567.95	-0.45	-0.53	84.34	83.39		
Std. Dev	3.94	8.64	0.01	0.04	2.79	3.50		
Mean - 3 Sigma	-515.33	-593.89	-0.49	-0.64	75.96	72.90		
Mean + 3 Sigma	-491.68	-542.02	-0.41	-0.41	92.72	93.88		

	SN	RF1_IL_10GHz (dB)		RF1_ISOL 10GHz (dB)		RF1_IL_19GHz (dB)		
		PRE	100k	PRE	100k	PRE	100k	
100k Biased	CTRL	24	-0.643	-0.778	58.534	61.986	-1.283	-1.104
	1	-0.773	-0.993	58.566	61.968	-1.280	-1.114	
	2	-0.904	-0.880	58.767	62.137	-1.294	-1.367	
	3	-0.747	-0.718	58.869	62.506	-1.271	-1.116	
	4	-0.745	-0.810	58.861	62.450	-1.206	-1.450	
	5	-0.693	-0.750	58.804	62.650	-1.205	-1.150	
	6	-0.906	-0.907	59.566	62.024	-1.265	-1.457	
	7	-0.762	-0.834	59.587	61.991	-1.211	-1.293	
	8	-0.715	-0.920	58.222	64.281	-1.221	-1.290	
	9	-0.752	-0.879	59.636	62.667	-1.285	-1.309	
	10	-0.753	-0.714	58.522	61.981	-1.269	-1.105	
	11	-0.772	-0.815	59.589	62.249	-1.225	-1.156	
	12	-0.967	-0.973	59.368	62.708	-1.245	-1.356	
	13	-0.916	-0.824	59.296	61.948	-1.349	-1.220	
	14	-0.849	-0.714	59.583	62.029	-1.259	-1.298	
	15	-0.745	-0.878	59.028	61.488	-1.293	-1.198	
	16	-0.938	-0.838	59.287	61.968	-1.215	-1.145	
	17	-0.877	-0.813	59.815	62.691	-1.249	-1.322	
	18	-0.797	-0.682	59.232	62.001	-1.223	-1.184	
	19	-0.873	-0.754	59.312	61.637	-1.208	-1.346	
	20	-0.783	-0.705	59.202	62.012	-1.268	-1.125	
	21	-0.682	-0.791	58.786	62.290	-1.215	-1.174	
	22	-0.602	-0.723	59.145	62.249	-1.267	-1.071	
	Min	-0.967	-0.993	58.222	61.488	-1.3490	-1.4570	
Max	-0.602	-0.682	59.815	64.281	-1.2050	-1.0710		
Mean	-0.798	-0.814	59.138	62.269	-1.2510	-1.2385		
Std. Dev	0.094	0.089	0.421	0.558	0.0374	0.1149		
Mean - 3 Sigma	-1.079	-1.081	57.876	60.595	-1.3632	-1.5831		
Mean + 3 Sigma	-0.517	-0.548	60.400	63.943	-1.1389	-0.8938		

		RF1_ISOL 19GHz (dB)		RF2_IL 650MHz (dB)		RF2_ISOL 650MHz (dB)		
		PRE	100k	PRE	100k	PRE	100k	
100k Biased	CTRL	24	41.888	40.844	-0.421	-0.671	77.442	79.649
		1	46.462	37.839	-0.463	-0.731	77.473	79.719
		2	44.548	44.534	-0.465	-0.663	76.354	79.170
		3	39.727	39.018	-0.434	-0.620	77.026	73.322
		4	45.128	39.640	-0.441	-0.690	77.006	86.210
		5	45.596	39.120	-0.437	-0.680	77.383	84.560
		6	39.363	39.148	-0.456	-0.618	77.770	83.801
		7	46.060	40.114	-0.458	-0.590	77.141	81.374
		8	37.746	36.230	-0.451	-0.450	77.069	75.063
		9	48.714	42.627	-0.449	-0.645	77.180	83.333
		10	38.314	36.169	-0.444	-0.476	77.455	79.416
		11	41.229	43.220	-0.450	-0.534	78.325	79.735
		12	39.951	43.879	-0.475	-0.613	77.698	80.290
		13	34.736	43.620	-0.475	-0.561	77.744	80.883
		14	41.705	39.546	-0.463	-0.605	76.726	79.048
		15	44.607	40.824	-0.453	-0.525	77.869	78.530
		16	41.872	40.590	-0.485	-0.485	78.466	79.712
		17	37.033	37.085	-0.475	-0.681	76.946	81.524
		18	45.515	40.120	-0.471	-0.490	78.492	78.448
		19	36.975	41.650	-0.460	-0.499	77.495	78.100
		20	37.691	43.450	-0.464	-0.510	76.958	78.211
		21	36.670	44.120	-0.452	-0.539	77.746	78.150
		22	34.981	40.484	-0.464	-0.491	78.194	77.788
		Min	34.736	36.169	-0.485	-0.731	76.3540	73.3220
	Max	48.714	44.534	-0.434	-0.450	78.4920	86.2100	
	Mean	41.119	40.592	-0.458	-0.577	77.4780	79.8358	
	Std. Dev	4.143	2.545	0.013	0.082	0.5712	2.9296	
	Mean - 3 Sigma	28.691	32.957	-0.498	-0.824	75.7643	71.0471	
	Mean + 3 Sigma	53.547	48.227	-0.419	-0.330	79.1917	88.6245	

		RF2_IL_10GHz (dB)		RF2_ISOL 10GHz (dB)		RF2_IL_19GHz (dB)		
		PRE	100k	PRE	100k	PRE	100k	
100k Biased	CTRL	24	-1.052	-0.856	54.202	57.970	-1.350	-1.106
		1	-1.008	-0.922	54.720	58.209	-1.318	-1.126
		2	-1.078	-0.966	54.323	58.165	-1.303	-1.127
		3	-0.975	-1.083	54.323	58.490	-1.222	-1.178
		4	-0.987	-0.750	54.672	57.950	-1.292	-1.150
		5	-0.919	-0.790	54.815	58.310	-1.261	-1.230
		6	-1.058	-0.798	54.925	58.308	-1.227	-1.176
		7	-1.026	-0.775	54.715	58.166	-1.263	-1.119
		8	-0.951	-0.790	53.921	60.280	-1.232	-1.140
		9	-1.019	-0.917	54.554	58.453	-1.280	-1.444
		10	-0.989	-0.736	53.829	58.143	-1.227	-1.213
		11	-1.033	-0.834	54.483	58.407	-1.254	-1.288
		12	-1.037	-0.996	54.396	58.520	-1.337	-1.487
		13	-1.081	-0.845	54.397	58.234	-1.239	-1.295
		14	-1.020	-0.742	54.378	58.138	-1.313	-1.398
		15	-1.004	-0.820	54.574	57.920	-1.362	-1.255
		16	-1.081	-0.688	54.724	58.334	-1.304	-1.156
		17	-1.051	-0.864	54.586	58.379	-1.278	-1.163
		18	-1.069	-0.757	54.506	58.216	-1.396	-1.160
		19	-1.068	-0.678	54.294	58.110	-1.192	-1.168
		20	-0.976	-0.757	54.301	58.085	-1.286	-1.153
		21	-0.933	-0.815	54.218	58.216	-1.367	-1.211
		22	-0.822	-0.798	54.310	58.304	-1.387	-1.211
		Min	-1.081	-1.083	53.829	57.920	-1.3960	-1.4870
	Max	-0.822	-0.678	54.925	60.280	-1.1920	-1.1190	
	Mean	-1.008	-0.824	54.453	58.334	-1.2882	-1.2204	
	Std. Dev	0.063	0.101	0.268	0.462	0.0564	0.1037	
	Mean - 3 Sigma	-1.198	-1.125	53.650	56.947	-1.4574	-1.5314	
	Mean + 3 Sigma	-0.819	-0.522	55.256	59.720	-1.1189	-0.9093	

		RF2_ISOL 19GHz (dB)		
		PRE	100k	
100k Biased	CTRL	24	50.129	52.847
		1	53.339	47.810
		2	54.431	49.855
		3	50.692	46.663
		4	52.564	48.650
		5	51.892	49.120
		6	50.215	51.003
		7	49.067	49.307
		8	49.318	44.298
		9	50.559	51.134
		10	47.536	53.434
		11	52.586	54.855
		12	46.453	50.442
		13	45.119	52.275
		14	44.944	51.075
		15	50.021	51.477
		16	53.613	55.373
		17	48.099	51.448
		18	44.971	52.188
		19	47.283	55.568
		20	48.440	52.063
		21	48.943	52.538
		22	50.010	55.038
		Min	44.944	44.298
	Max	54.431	55.568	
	Mean	49.550	51.164	
	Std. Dev	2.814	2.853	
	Mean - 3 Sigma	41.108	42.606	
	Mean + 3 Sigma	57.991	59.723	

		0		0		RF2_IL_650MHz_LSH (dB)	
		PRE	Post	PRE	Post	PRE	Post
CTRL	SN	0.000	-0.591	0.000	72.000	-0.521	-0.557
100k Biased	1	0.000	-0.517	0.000	23.340	-0.510	-0.501
	2	0.000	-13.178	0.000	72.142	-0.529	-0.509
	3	0.000	-0.565	0.000	72.428	-0.543	-0.546
	4	0.000	-0.548	0.000	72.009	-0.549	-0.531
	5	0.000	-0.548	0.000	72.139	-0.527	-0.523
	6	0.000	-0.564	0.000	71.992	-0.568	-0.543
	7	0.000	-0.588	0.000	72.148	-0.566	-0.568
	8	0.000	-0.603	0.000	72.275	-0.546	-0.587
	21	0.000	-0.589	0.000	23.491	-0.563	-0.578
	22	0.000	-0.605	0.000	75.397	-0.545	-0.574
	Min	0.0000	-13.1775	0.0000	23.3398	-0.5684	-0.5869
	Max	0.0000	-0.5169	0.0000	75.3967	-0.5101	-0.5009
	Mean	0.0000	-1.8304	0.0000	62.7359	-0.5447	-0.5459
	Std. Dev	0.0000	3.9871	0.0000	20.7487	0.0186	0.0302
Mean - 3 Sigma	0.0000	-13.7916	0.0000	0.4897	-0.6004	-0.6364	
Mean + 3 Sigma	0.0000	10.1308	0.0000	124.9821	-0.4891	-0.4554	
100k Unbiased	#REF!	0.000	-0.565	0.000	72.272	-0.552	-0.547
	#REF!	0.000	-0.602	0.000	72.832	-0.546	-0.590
	#REF!	0.000	-0.599	0.000	72.661	-0.540	-0.572
	#REF!	0.000	-0.552	0.000	72.125	-0.515	-0.524
	#REF!	0.000	-0.571	0.000	72.686	-0.508	-0.555
	Min	0.0000	-0.6018	0.0000	72.1251	-0.5521	-0.5905
	Max	0.0000	-0.5525	0.0000	72.8320	-0.5077	-0.5244
	Mean	0.0000	-0.5777	0.0000	72.5154	-0.5322	-0.5579
	Std. Dev	0.0000	0.0217	0.0000	0.3009	0.0197	0.0250
	Mean - 3 Sigma	0.0000	-0.6427	0.0000	71.6127	-0.5913	-0.6330
	Mean + 3 Sigma	0.0000	-0.5127	0.0000	73.4182	-0.4731	-0.4828

		RF2_ISOL 650MHz_ENH (dB)		RF2_IL_10GHz (dB)		RF2_ISOL 10GHz (dB)	
		PRE	Post	PRE	Post	PRE	Post
CTRL	SN	76.000	77.200	-0.428	-0.692	46.300	47.000
100k Biased	1	75.605	76.517	-0.475	-0.296	46.639	46.321
	2	75.435	76.032	-0.503	-0.428	47.193	45.955
	3	75.328	76.068	-0.571	-0.467	47.069	46.564
	4	74.648	75.430	-0.530	-0.381	47.192	46.305
	5	75.757	76.585	-0.516	-0.474	47.107	46.513
	6	75.882	76.240	-0.822	-0.449	47.438	46.489
	7	75.696	76.134	-0.750	-0.648	47.810	46.732
	8	75.652	76.171	-0.559	-0.644	47.347	46.403
	21	75.473	72.568	-0.639	-0.595	47.474	46.762
	22	75.060	68.373	-0.549	-0.587	47.694	46.800
	Min	74.6477	68.3730	-0.8218	-0.6483	46.6386	45.9552
	Max	75.8821	76.5846	-0.4754	-0.2957	47.8104	46.7995
	Mean	75.4535	75.0118	-0.5913	-0.4968	47.2962	46.4844
	Std. Dev	0.3677	2.6083	0.1128	0.1176	0.3364	0.2561
Mean - 3 Sigma	74.3503	67.1869	-0.9295	-0.8498	46.2869	45.7160	
Mean + 3 Sigma	76.5567	82.8368	-0.2530	-0.1439	48.3056	47.2528	
100k Unbiased	#REF!	76.468	77.421	-0.581	-0.591	47.566	46.302
	#REF!	75.174	73.418	-0.547	-0.600	47.526	46.497
	#REF!	76.095	75.387	-0.463	-0.525	47.144	46.076
	#REF!	74.704	74.320	-0.420	-0.351	46.966	45.488
	#REF!	76.137	76.336	-0.397	-0.579	47.014	45.690
	Min	74.7038	73.4183	-0.5810	-0.5997	46.9660	45.4884
	Max	76.4678	77.4210	-0.3969	-0.3506	47.5658	46.4966
	Mean	75.7155	75.3765	-0.4815	-0.5291	47.2432	46.0105
	Std. Dev	0.7425	1.5852	0.0799	0.1039	0.2844	0.4185
	Mean - 3 Sigma	73.4881	70.6210	-0.7211	-0.8407	46.3901	44.7549
	Mean + 3 Sigma	77.9429	80.1319	-0.2419	-0.2174	48.0963	47.2661

		RF2_IL_19GHz (dB)		RF2_ISOL 19GHz (dB)		RF3_IL_650MHz (dB)	
		PRE	Post	PRE	Post	PRE	Post
CTRL	SN	-0.756	-1.010	46.900	47.000	-0.567	-0.605
100k Biased	1	-0.837	-0.831	47.061	46.666	-0.551	-0.539
	2	-0.885	-0.888	46.948	46.739	-0.570	-0.541
	3	-0.897	-0.965	47.142	46.684	-0.591	-0.586
	4	-0.887	-0.932	47.419	46.849	-0.591	-0.569
	5	-0.844	-0.912	47.099	46.659	-0.576	-0.572
	6	-1.013	-0.931	47.364	46.787	-0.612	-0.583
	7	-0.963	-1.056	47.309	46.925	-0.613	-0.613
	8	-0.889	-1.066	47.138	46.858	-0.592	-0.628
	21	-0.936	-1.029	47.238	46.769	-0.603	-0.619
	22	-0.885	-1.070	47.110	46.685	-0.589	-0.625
	Min	-1.0135	-1.0700	46.9477	46.6589	-0.6131	-0.6280
	Max	-0.8374	-0.8309	47.4187	46.9250	-0.5512	-0.5390
	Mean	-0.9037	-0.9681	47.1827	46.7621	-0.5888	-0.5875
	Std. Dev	0.0536	0.0834	0.1467	0.0922	0.0192	0.0330
Mean - 3 Sigma	-1.0645	-1.2183	46.7427	46.4856	-0.6463	-0.6863	
Mean + 3 Sigma	-0.7429	-0.7179	47.6226	47.0386	-0.5313	-0.4886	
100k Unbiased	#REF!	-0.894	-0.970	47.092	46.851	-0.593	-0.587
	#REF!	-0.870	-1.059	47.309	46.971	-0.586	-0.623
	#REF!	-0.818	-1.015	47.055	46.763	-0.582	-0.616
	#REF!	-0.790	-0.915	47.114	46.762	-0.558	-0.564
	#REF!	-0.741	-0.969	47.036	46.680	-0.549	-0.588
	Min	-0.8935	-1.0593	47.0365	46.6801	-0.5932	-0.6233
	Max	-0.7405	-0.9152	47.3094	46.9711	-0.5486	-0.5642
	Mean	-0.8224	-0.9858	47.1213	46.8055	-0.5735	-0.5958
	Std. Dev	0.0615	0.0543	0.1095	0.1106	0.0191	0.0240
	Mean - 3 Sigma	-1.0070	-1.1487	46.7929	46.4737	-0.6309	-0.6677
	Mean + 3 Sigma	-0.6378	-0.8229	47.4497	47.1372	-0.5160	-0.5238

		RF3_ISOL 650MHz (dB)		RF3_IL_650MHz_LSH (dB)		RF3_ISOL 650MHz_ENH (dB)		
		PRE	Post	PRE	Post	PRE	Post	
100k Biased	CTRL	24	77.900	76.900	-0.523	-0.586	72.700	73.200
		1	78.002	76.672	-0.513	-0.511	72.729	72.911
		2	78.768	78.288	-0.532	-0.519	72.896	72.926
		3	78.126	75.856	-0.542	-0.554	73.009	72.862
		4	78.800	77.060	-0.545	-0.541	72.048	72.551
		5	76.946	75.621	-0.527	-0.541	73.037	73.373
		6	77.899	76.658	-0.567	-0.557	72.667	72.638
		7	77.213	76.863	-0.566	-0.576	72.852	72.729
		8	77.409	76.323	-0.545	-0.595	72.666	72.153
		21	77.368	76.459	-0.556	-0.583	72.668	72.116
		22	78.080	71.128	-0.546	-0.599	72.606	66.624
		Min	76.9458	71.1281	-0.5666	-0.5985	72.0482	66.6238
		Max	78.8000	78.2883	-0.5128	-0.5109	73.0374	73.3731
		Mean	77.8610	76.0930	-0.5438	-0.5576	72.7178	72.0882
		Std. Dev	0.6280	1.8892	0.0168	0.0304	0.2799	1.9556
	Mean - 3 Sigma	75.9770	70.4255	-0.5941	-0.6487	71.8781	66.2214	
	Mean + 3 Sigma	79.7451	81.7606	-0.4934	-0.4664	73.5576	77.9551	
100k Unbiased		#REF!	76.687	76.476	-0.547	-0.556	73.412	73.195
		#REF!	78.372	77.185	-0.542	-0.597	72.783	66.447
		#REF!	77.534	78.109	-0.537	-0.589	72.419	71.204
		#REF!	77.052	69.462	-0.515	-0.543	72.999	72.420
		#REF!	77.183	77.865	-0.505	-0.565	72.961	72.823
		#REF!	76.6866	69.4618	-0.5474	-0.5969	72.4192	66.4470
		Max	78.3718	78.1085	-0.5054	-0.5433	73.4122	73.1952
		Mean	77.3656	75.8193	-0.5295	-0.5703	72.9148	71.2180
		Std. Dev	0.6390	3.6104	0.0182	0.0225	0.3604	2.7701
		Mean - 3 Sigma	75.4485	64.9881	-0.5841	-0.6377	71.8336	62.9076
		Mean + 3 Sigma	79.2828	86.6504	-0.4750	-0.5029	73.9960	79.5283

		RF3_IL_10GHz (dB)		RF3_ISOL 10GHz (dB)		RF3_IL_19GHz (dB)		
		PRE	Post	PRE	Post	PRE	Post	
100k Biased	CTRL	24	-0.578	-0.706	48.900	50.200	-0.747	-0.993
		1	-0.596	-0.358	49.066	49.288	-0.818	-0.819
		2	-0.653	-0.476	49.261	48.964	-0.873	-0.875
		3	-0.747	-0.564	48.918	49.196	-0.890	-0.947
		4	-0.707	-0.453	48.999	49.181	-0.878	-0.916
		5	-0.685	-0.563	49.050	49.037	-0.841	-0.899
		6	-0.976	-0.524	49.660	49.317	-1.000	-0.918
		7	-0.927	-0.740	49.488	49.427	-0.952	-1.036
		8	-0.703	-0.887	49.203	49.312	-0.872	-1.045
		21	-0.808	-0.678	49.061	49.298	-0.923	-1.012
		22	-0.705	-0.686	49.292	49.376	-0.870	-1.060
		Min	-0.9759	-0.8871	48.9177	48.9640	-1.0002	-1.0596
		Max	-0.5961	-0.3576	49.6603	49.4273	-0.8180	-0.8189
		Mean	-0.7506	-0.5929	49.1997	49.2396	-0.8918	-0.9527
		Std. Dev	0.1197	0.1561	0.2327	0.1465	0.0535	0.0816
	Mean - 3 Sigma	-1.1098	-1.0612	48.5017	48.8002	-1.0524	-1.1975	
	Mean + 3 Sigma	-0.3914	-0.1247	49.8977	49.6791	-0.7312	-0.7080	
100k Unbiased		#REF!	-0.738	-0.680	49.154	49.093	-0.888	-0.956
		#REF!	-0.710	-0.674	49.110	49.167	-0.860	-1.044
		#REF!	-0.615	-0.588	49.035	48.940	-0.806	-0.996
		#REF!	-0.583	-0.402	48.762	48.726	-0.783	-0.895
		#REF!	-0.556	-0.633	48.745	49.144	-0.730	-0.956
		Min	-0.7376	-0.6799	48.7445	48.7263	-0.8881	-1.0436
		Max	-0.5556	-0.4020	49.1537	49.1674	-0.7304	-0.8951
		Mean	-0.6401	-0.5952	48.9611	49.0142	-0.8135	-0.9694
		Std. Dev	0.0797	0.1142	0.1945	0.1838	0.0626	0.0549
		Mean - 3 Sigma	-0.8791	-0.9378	48.3777	48.4628	-1.0014	-1.1340
		Mean + 3 Sigma	-0.4010	-0.2527	49.5445	49.5656	-0.6257	-0.8047

		RF3_ISOL 19GHz (dB)		RF4_IL_650MHz (dB)		RF4_ISOL 650MHz (dB)		
		PRE	Post	PRE	Post	PRE	Post	
100k Biased	CTRL	24	46.900	47.000	-0.522	-0.584	72.200	72.100
		1	47.041	21.368	-0.512	-0.499	72.327	72.327
		2	46.935	46.743	-0.531	-0.517	72.644	18.708
		3	47.135	46.663	-0.541	-0.551	72.414	72.011
		4	47.338	46.823	-0.543	-0.537	72.417	72.093
		5	47.065	46.652	-0.525	-0.535	72.367	72.048
		6	47.340	46.757	-0.564	-0.554	72.364	71.929
		7	47.313	46.903	-0.563	-0.572	72.330	72.149
		8	47.129	46.846	-0.543	-0.603	72.472	72.912
		21	47.224	46.769	-0.553	-0.577	72.300	74.310
		22	47.087	46.788	-0.544	-0.594	72.301	78.306
		Min	46.9345	21.3677	-0.5639	-0.6028	72.3004	18.7076
		Max	47.3395	46.9028	-0.5116	-0.4986	72.6444	78.3062
		Mean	47.1607	44.2312	-0.5419	-0.5539	72.3937	67.6793
		Std. Dev	0.1385	8.0338	0.0163	0.0332	0.1040	17.3188
	Mean - 3 Sigma	46.7452	20.1299	-0.5909	-0.6534	72.0818	15.7228	
	Mean + 3 Sigma	47.5763	68.3325	-0.4929	-0.4543	72.7056	119.6357	
100k Unbiased		#REF!	47.087	46.836	-0.545	-0.554	72.437	72.288
		#REF!	47.315	46.957	-0.540	-0.591	72.416	73.455
		#REF!	47.038	46.739	-0.534	-0.584	72.549	72.829
		#REF!	47.106	46.715	-0.514	-0.538	72.446	73.743
		#REF!	47.022	46.664	-0.504	-0.563	72.339	72.056
		MIN	47.0220	46.6638	-0.5455	-0.5911	72.3390	72.0563
		Max	47.3150	46.9568	-0.5039	-0.5378	72.5492	73.7433
		Mean	47.1138	46.7821	-0.5275	-0.5660	72.4377	72.8743
		Std. Dev	0.1177	0.1160	0.0179	0.0219	0.0754	0.7257
		Mean - 3 Sigma	46.7607	46.4340	-0.5810	-0.6317	72.2116	70.6973
		Mean + 3 Sigma	47.4669	47.1303	-0.4739	-0.5002	72.6638	75.0514

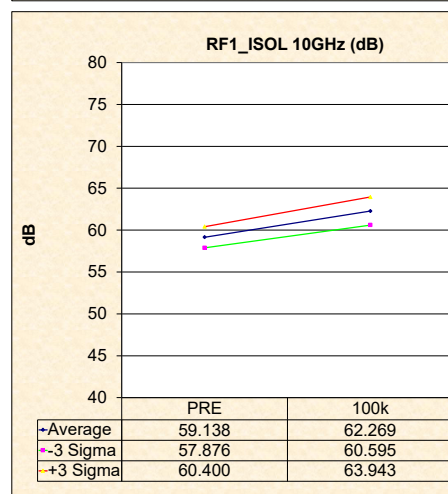
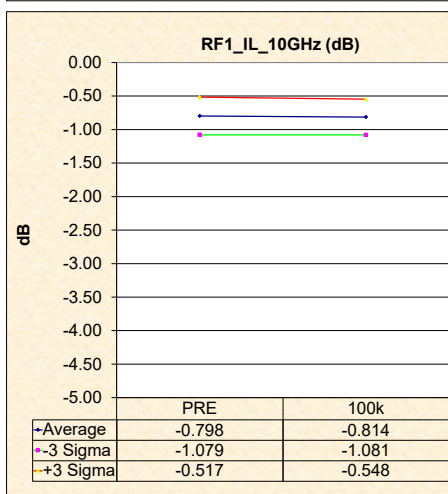
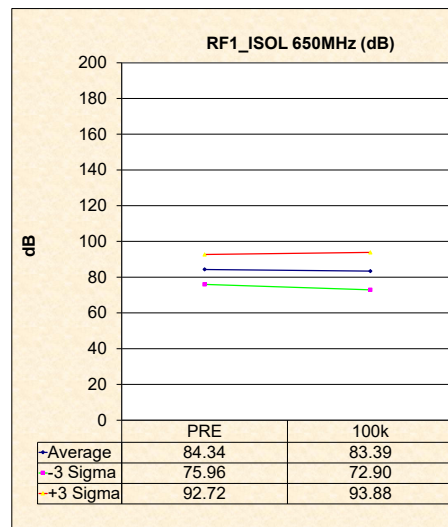
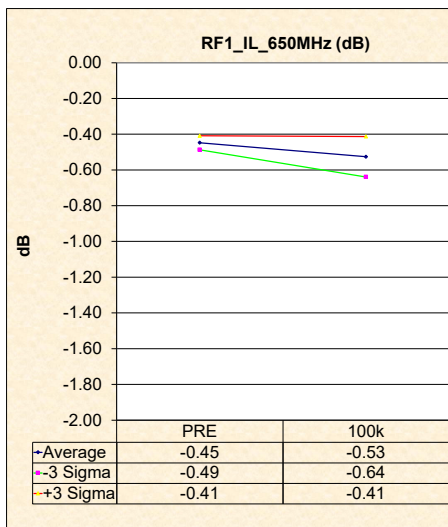
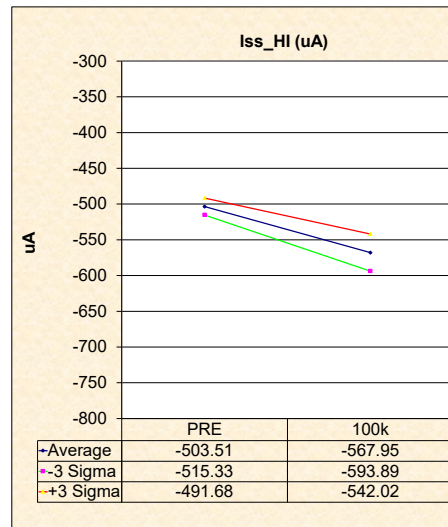
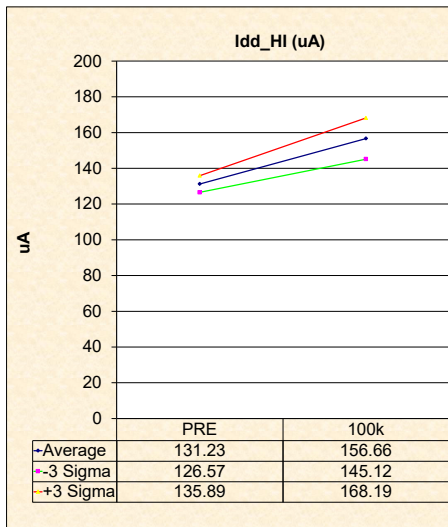
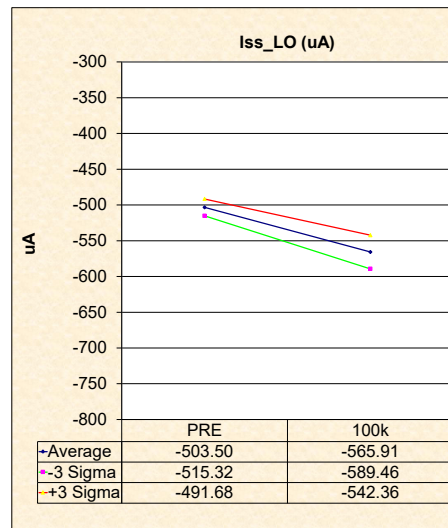
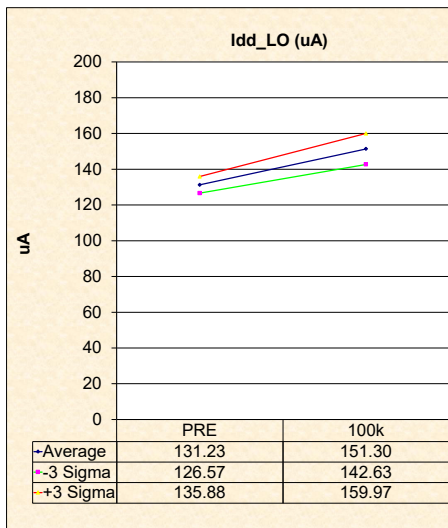
		RF4_IL_650MHz_LSH (dB)		RF4_ISOL 650MHz_ENH (dB)		RF4_IL_10GHz (dB)		
		PRE	Post	PRE	Post	PRE	Post	
100k Biased	CTRL	24	-0.547	-0.600	74.200	74.600	-0.338	-0.606
		1	-0.540	-0.537	73.913	74.583	-0.408	-0.254
		2	-0.557	-0.542	72.041	74.695	-0.431	-0.369
		3	-0.572	-0.579	74.093	74.280	-0.552	-0.450
		4	-0.577	-0.569	72.675	74.004	-0.497	-0.347
		5	-0.558	-0.564	74.162	74.764	-0.468	-0.425
		6	-0.593	-0.577	74.207	73.672	-0.739	-0.384
		7	-0.595	-0.599	74.272	74.621	-0.688	-0.585
		8	-0.572	-0.638	73.966	66.102	-0.491	-0.756
		21	-0.586	-0.609	74.163	73.557	-0.584	-0.521
		22	-0.572	-0.622	74.100	69.626	-0.493	-0.577
		Min	-0.5954	-0.6382	72.0410	66.1022	-0.7390	-0.7559
		Max	-0.5400	-0.5373	74.2719	74.7640	-0.4079	-0.2545
		Mean	-0.5723	-0.5837	73.7593	72.9906	-0.5351	-0.4669
	Std. Dev	0.0172	0.0332	0.7609	2.8576	0.1076	0.1456	
	Mean - 3 Sigma	-0.6238	-0.6832	71.4766	64.4178	-0.8579	-0.9036	
	Mean + 3 Sigma	-0.5208	-0.4842	76.0420	81.5634	-0.2122	-0.0302	
100k Unbiased		#REF!	-0.575	-0.584	74.858	74.156	-0.525	-0.512
		#REF!	-0.578	-0.619	74.242	63.853	-0.535	-0.520
		#REF!	-0.567	-0.608	74.238	73.879	-0.405	-0.445
		#REF!	-0.542	-0.555	74.072	74.074	-0.363	-0.263
		#REF!	-0.534	-0.587	73.884	74.106	-0.332	-0.561
		MIN	-0.5775	-0.6192	73.8842	63.8533	-0.5348	-0.5611
		Max	-0.5343	-0.5549	74.8583	74.1560	-0.3319	-0.2629
		Mean	-0.5593	-0.5905	74.2591	72.0137	-0.4320	-0.4602
		Std. Dev	0.0198	0.0247	0.3658	4.5630	0.0932	0.1179
		Mean - 3 Sigma	-0.6187	-0.6647	73.1617	58.3247	-0.7117	-0.8139
		Mean + 3 Sigma	-0.4999	-0.5163	75.3565	85.7027	-0.1523	-0.1066

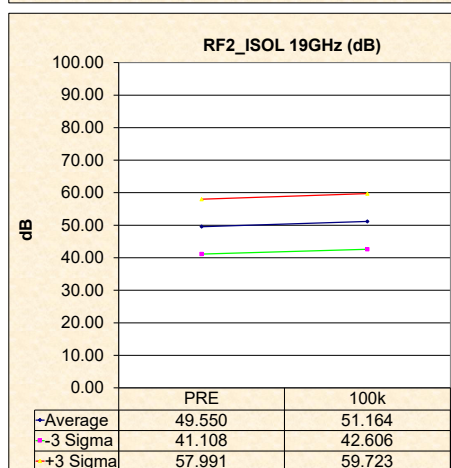
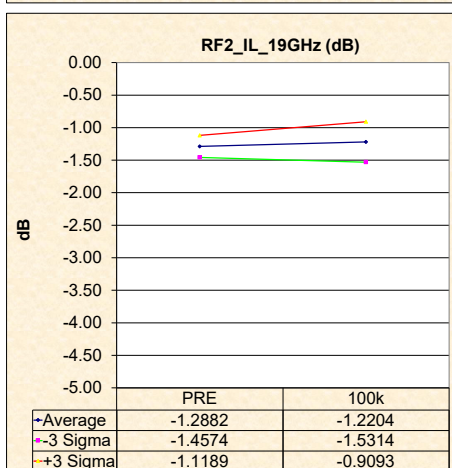
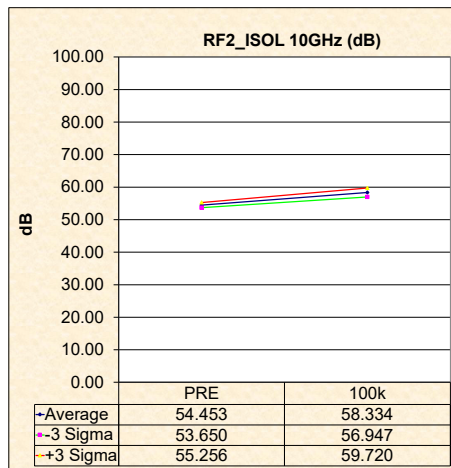
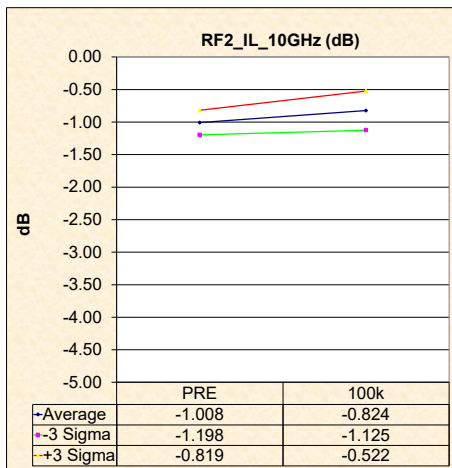
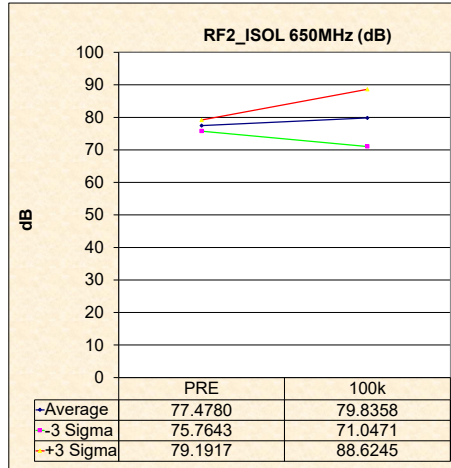
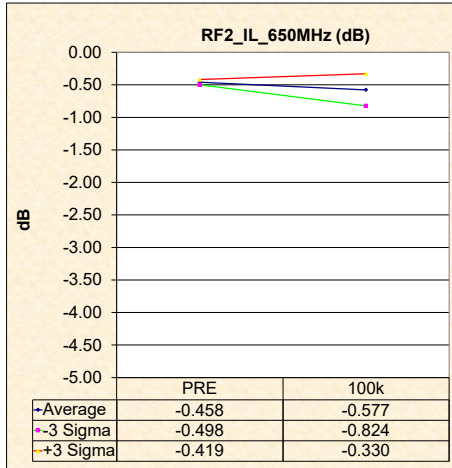
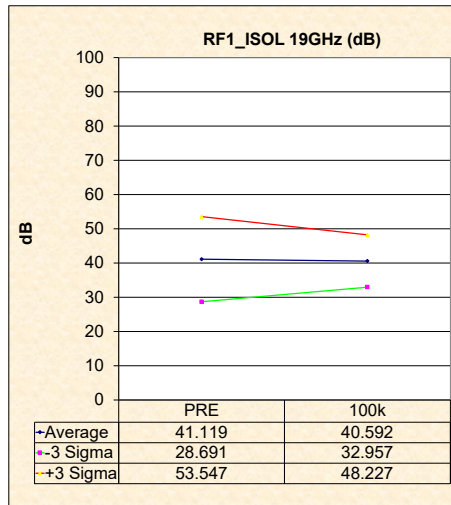
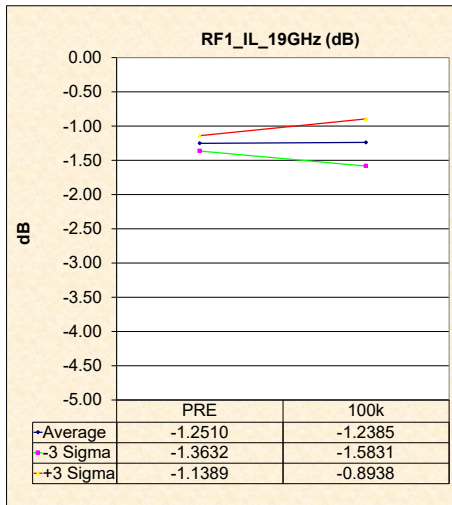
		RF4_ISOL 10GHz (dB)		RF4_IL_19GHz (dB)		RF4_ISOL 19GHz (dB)		
		PRE	Post	PRE	Post	PRE	Post	
100k Biased	CTRL	24	51.300	51.200	-0.969	-1.290	50.000	49.900
		1	51.313	51.145	-1.048	-1.138	49.964	50.001
		2	51.119	51.516	-1.101	-1.172	50.125	50.245
		3	51.303	51.107	-1.167	-1.268	50.067	50.089
		4	51.451	51.228	-1.161	-1.238	50.282	50.185
		5	51.166	51.260	-1.098	-1.213	50.156	50.144
		6	51.516	51.255	-1.249	-1.196	50.178	50.069
		7	51.299	51.338	-1.194	-1.590	49.989	50.358
		8	51.001	51.180	-1.107	-1.403	49.928	49.969
		21	51.500	51.235	-1.173	-1.357	50.249	50.191
		22	50.970	50.926	-1.114	-1.386	50.049	49.945
		Min	50.9704	50.9258	-1.2486	-1.5902	49.9284	49.9447
		Max	51.5157	51.5165	-1.0485	-1.1383	50.2823	50.3577
		Mean	51.2639	51.2191	-1.1412	-1.2961	50.0987	50.1195
	Std. Dev	0.1957	0.1533	0.0581	0.1379	0.1197	0.1304	
	Mean - 3 Sigma	50.6767	50.7592	-1.3156	-1.7096	49.7398	49.7284	
	Mean + 3 Sigma	51.8510	51.6789	-0.9669	-0.8825	50.4577	50.5106	
100k Unbiased		#REF!	51.282	51.574	-1.142	-1.336	50.370	50.428
		#REF!	51.289	50.759	-1.152	-1.404	50.329	50.099
		#REF!	51.238	51.283	-1.080	-1.301	50.063	50.010
		#REF!	51.359	51.387	-1.029	-1.181	50.184	50.104
		#REF!	51.335	51.480	-0.992	-1.309	50.063	50.241
		#REF!	51.2380	50.7592	-1.1515	-1.4038	50.0625	50.0103
		Max	51.3592	51.5738	-0.9919	-1.1807	50.3700	50.4279
		Mean	51.3006	51.2965	-1.0788	-1.3062	50.2019	50.1765
		Std. Dev	0.0475	0.3192	0.0693	0.0809	0.1443	0.1630
		Mean - 3 Sigma	51.1582	50.3390	-1.2868	-1.5490	49.7690	49.6875
		Mean + 3 Sigma	51.4430	52.2540	-0.8708	-1.0634	50.6347	50.6655

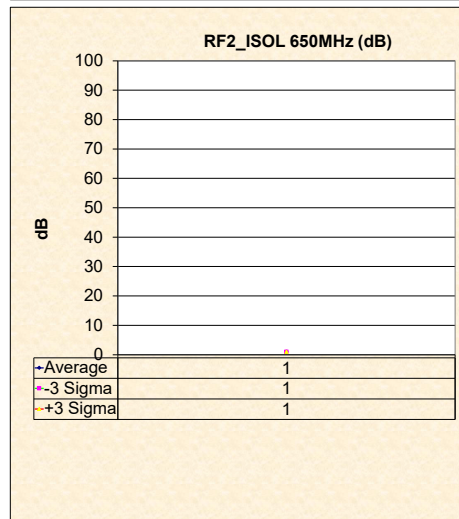
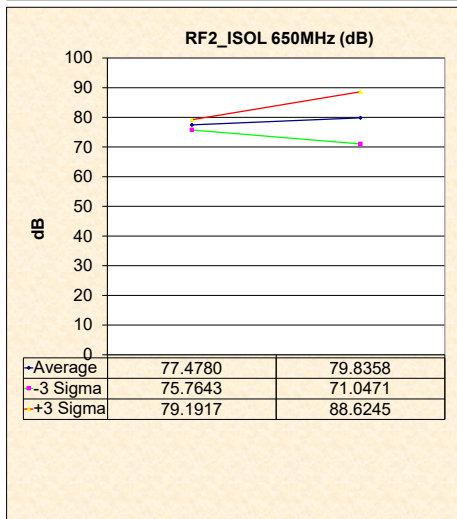
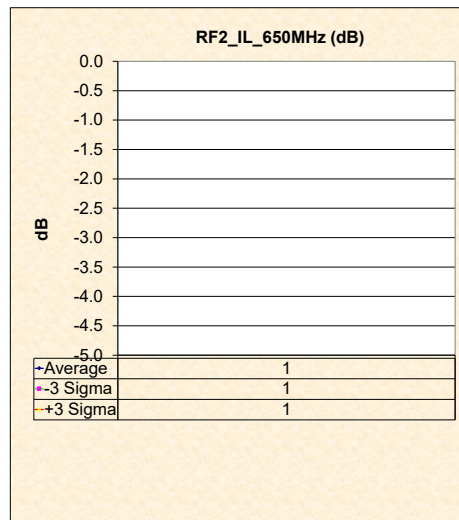
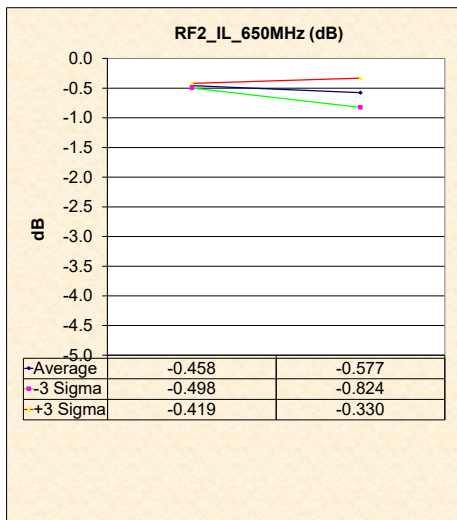
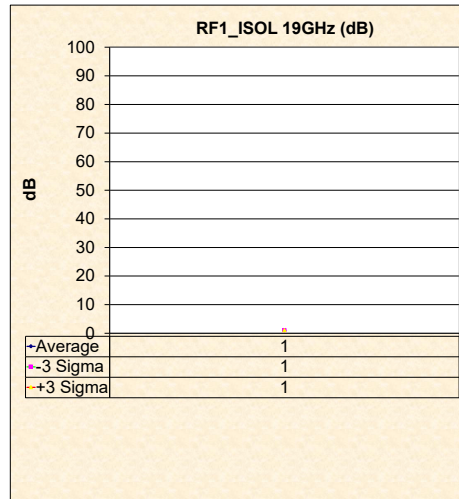
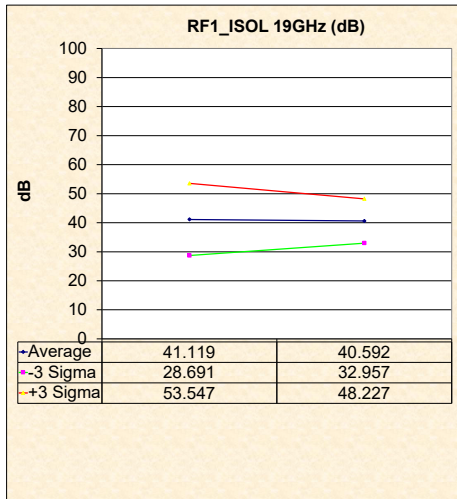
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		PRE	Post	PRE	Post	PRE	Post	
100k Biased	CTRL	24	0.000	-0.584	0.000	72.112	0.000	-0.500
		1	0.000	-0.529	0.000	74.583	0.000	-0.537
		2	0.000	-0.517	0.000	74.695	0.000	-0.542
		3	0.000	-0.551	0.000	72.011	0.000	-0.579
		4	0.000	-0.537	0.000	72.093	0.000	-0.569
		5	0.000	-0.535	0.000	72.048	0.000	-0.564
		6	0.000	-0.554	0.000	71.929	0.000	-0.577
		7	0.000	-0.572	0.000	72.149	0.000	-0.599
		8	0.000	-0.603	0.000	72.912	0.000	-0.638
		21	0.000	-0.577	0.000	74.310	0.000	-0.609
		22	0.000	-0.594	0.000	78.306	0.000	-0.622
		Min	0.0000	-0.6028	0.0000	71.9289	0.0000	-0.6382
		Max	0.0000	-0.5167	0.0000	78.3062	0.0000	-0.5373
		Mean	0.0000	-0.5569	0.0000	73.5037	0.0000	-0.5837
	Std. Dev	0.0000	0.0286	0.0000	2.0358	0.0000	0.0332	
	Mean - 3 Sigma	0.0000	-0.6428	0.0000	67.3962	0.0000	-0.6832	
	Mean + 3 Sigma	0.0000	-0.4711	0.0000	79.6112	0.0000	-0.4842	
100k Unbiased		#REF!	0.000	-0.554	0.000	72.288	0.000	-0.584
		#REF!	0.000	-0.591	0.000	73.455	0.000	-0.619
		#REF!	0.000	-0.584	0.000	72.829	0.000	-0.608
		#REF!	0.000	-0.538	0.000	73.743	0.000	-0.555
		#REF!	0.000	-0.563	0.000	72.056	0.000	-0.587
		Min	0.0000	-0.5911	0.0000	72.0563	0.0000	-0.6192
		Max	0.0000	-0.5378	0.0000	73.7433	0.0000	-0.5549
		Mean	0.0000	-0.5660	0.0000	72.8743	0.0000	-0.5905
		Std. Dev	0.0000	0.0219	0.0000	0.7257	0.0000	0.0247
		Mean - 3 Sigma	0.0000	-0.6317	0.0000	70.6973	0.0000	-0.6647
		Mean + 3 Sigma	0.0000	-0.5002	0.0000	75.0514	0.0000	-0.5163

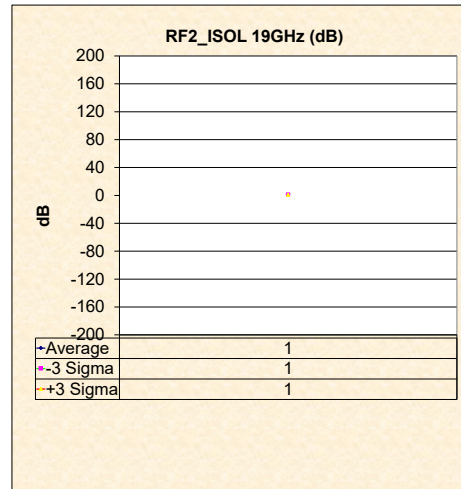
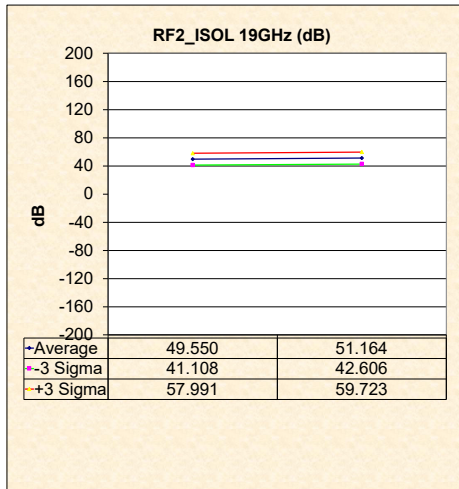
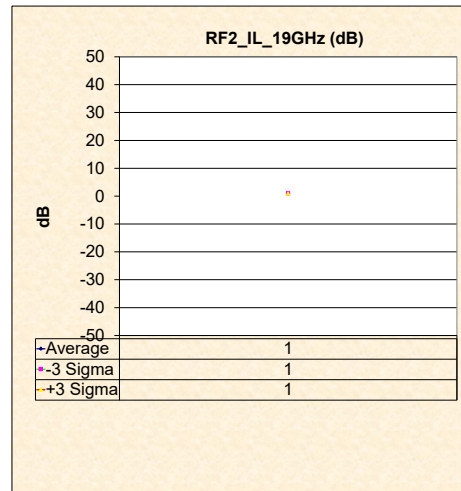
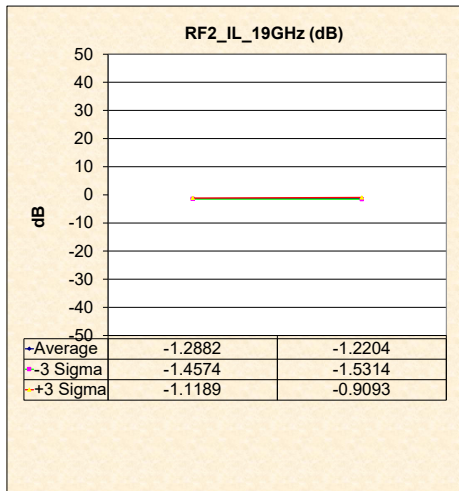
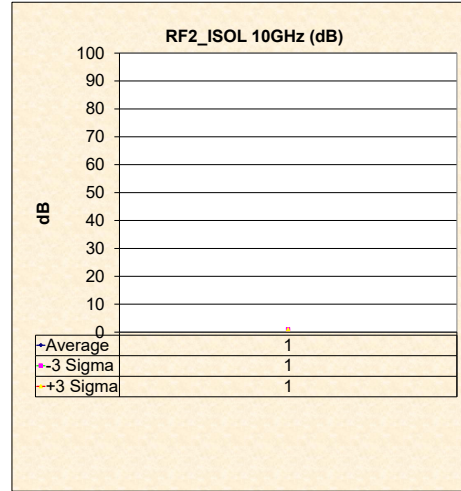
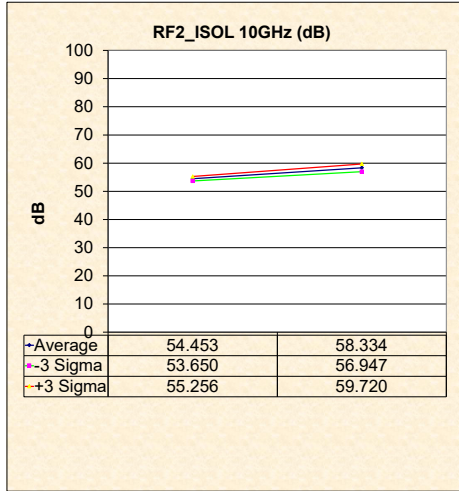
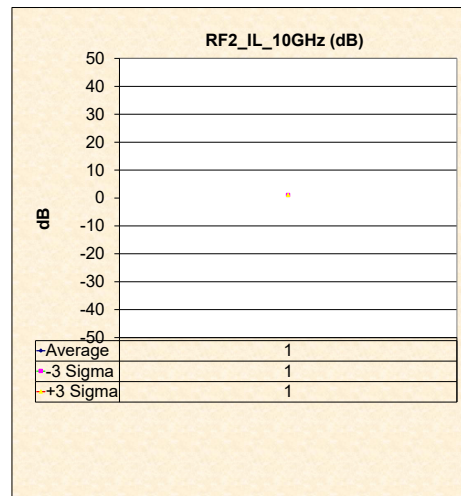
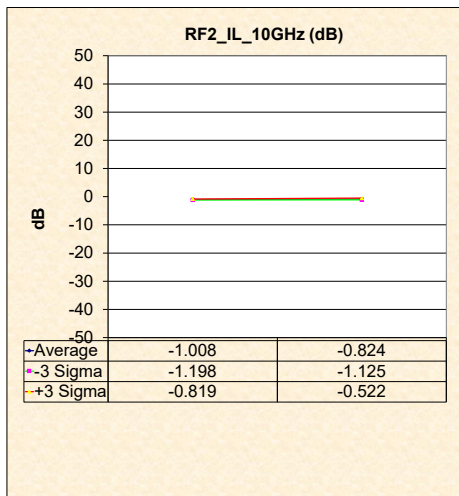
		0		0		0		
		PRE	Post	PRE	Post	PRE	Post	
CTRL	SN	24	0.000	74.585	0.000	-0.606	0.000	51.179
100k Biased	1	0.000	74.583	0.000	-0.254	0.000	51.145	
	2	0.000	74.695	0.000	-0.369	0.000	51.516	
	3	0.000	74.280	0.000	-0.450	0.000	51.107	
	4	0.000	74.004	0.000	-0.347	0.000	51.228	
	5	0.000	74.764	0.000	-0.425	0.000	51.260	
	6	0.000	73.672	0.000	-0.384	0.000	51.255	
	7	0.000	74.621	0.000	-0.585	0.000	51.338	
	8	0.000	66.102	0.000	-0.756	0.000	51.180	
	21	0.000	73.557	0.000	-0.521	0.000	51.235	
	22	0.000	69.626	0.000	-0.577	0.000	50.926	
	Min	0.0000	66.1022	0.0000	-0.7559	0.0000	50.9258	
	Max	0.0000	74.7640	0.0000	-0.2545	0.0000	51.5165	
	Mean	0.0000	72.9906	0.0000	-0.4669	0.0000	51.2191	
	Std. Dev	0.0000	2.8576	0.0000	0.1456	0.0000	0.1533	
Mean - 3 Sigma	0.0000	64.4178	0.0000	-0.9036	0.0000	50.7592		
Mean + 3 Sigma	0.0000	81.5634	0.0000	-0.0302	0.0000	51.6789		
100k Unbiased	#REF!	0.000	74.156	0.000	-0.512	0.000	51.574	
	#REF!	0.000	63.853	0.000	-0.520	0.000	50.759	
	#REF!	0.000	73.879	0.000	-0.445	0.000	51.283	
	#REF!	0.000	74.074	0.000	-0.263	0.000	51.387	
	#REF!	0.000	74.106	0.000	-0.561	0.000	51.480	
	MIN	0.0000	63.8533	0.0000	-0.5611	0.0000	50.7592	
	Max	0.0000	74.1560	0.0000	-0.2629	0.0000	51.5738	
	Mean	0.0000	72.0137	0.0000	-0.4602	0.0000	51.2965	
	Std. Dev	0.0000	4.5630	0.0000	0.1179	0.0000	0.3192	
	Mean - 3 Sigma	0.0000	58.3247	0.0000	-0.8139	0.0000	50.3390	
	Mean + 3 Sigma	0.0000	85.7027	0.0000	-0.1066	0.0000	52.2540	

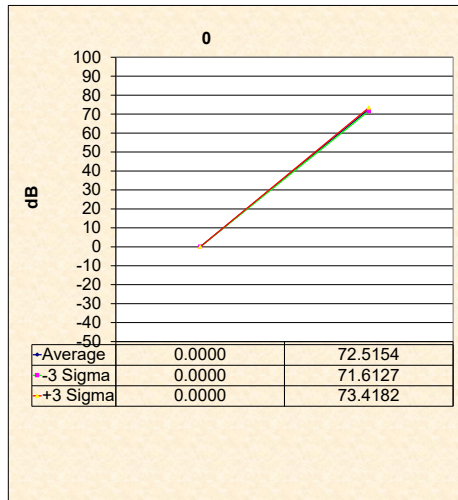
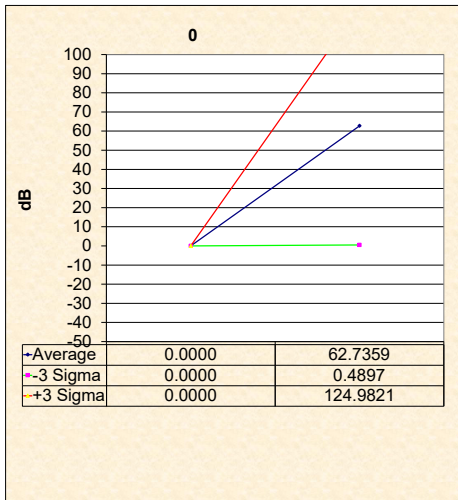
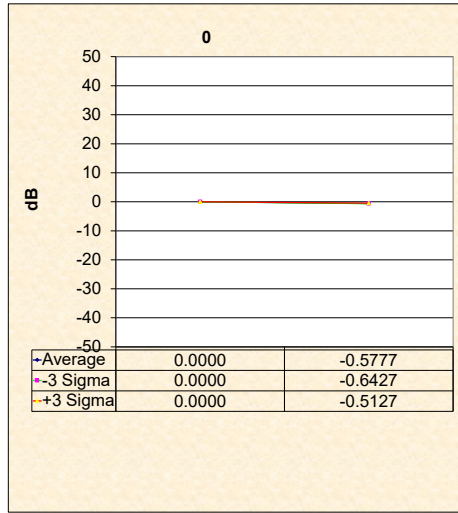
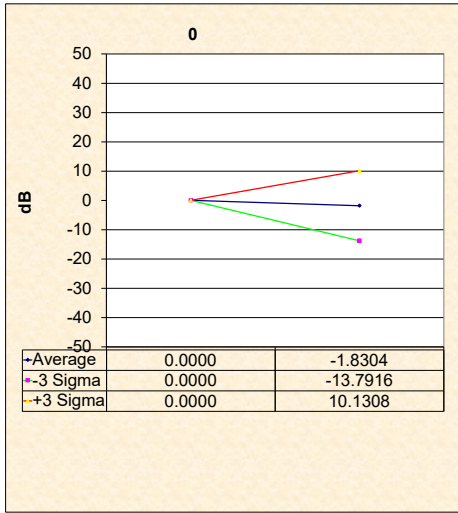
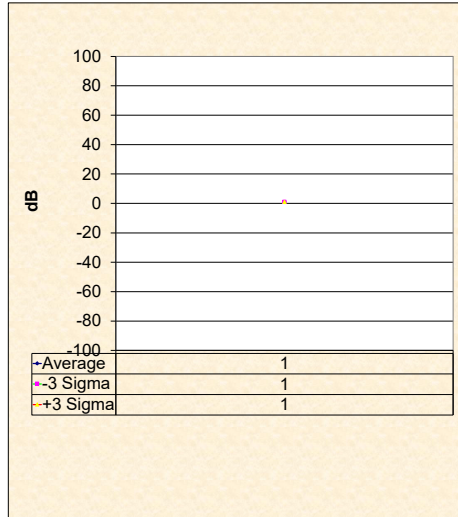
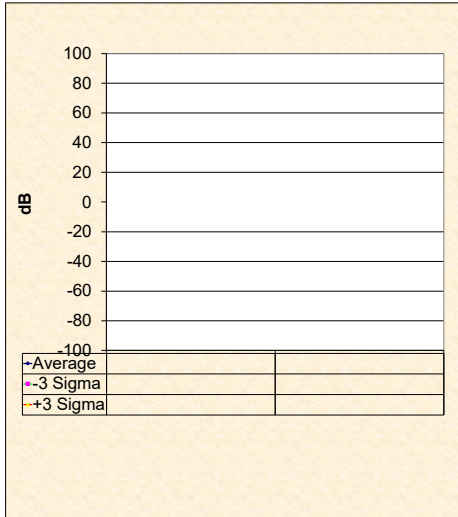
		0		RF4_ISOL 33GHz (dB)		
		PRE	Post	PRE	Post	
CTRL	SN	24	0.000	-1.294	44.700	49.875
100k Biased	1	0.000	-1.138	44.300	50.001	
	2	0.000	-1.172	44.100	50.245	
	3	0.000	-1.268	43.900	50.089	
	4	0.000	-1.238	43.500	50.185	
	5	0.000	-1.213	43.800	50.144	
	6	0.000	-1.196	44.200	50.069	
	7	0.000	-1.590	43.800	50.358	
	8	0.000	-1.403	43.800	49.969	
	21	0.000	-1.357	43.900	50.191	
	22	0.000	-1.386	43.900	49.945	
	Min	0.0000	-1.5902	43.5000	49.9447	
	Max	0.0000	-1.1383	44.3000	50.3577	
	Mean	0.0000	-1.2961	43.9200	50.1195	
	Std. Dev	0.0000	0.1379	0.2300	0.1304	
Mean - 3 Sigma	0.0000	-1.7096	43.2301	49.7284		
Mean + 3 Sigma	0.0000	-0.8825	44.6099	50.5106		
100k Unbiased	#REF!	0.000	-1.336	43.900	50.428	
	#REF!	0.000	-1.404	44.200	50.099	
	#REF!	0.000	-1.301	44.000	50.010	
	#REF!	0.000	-1.181	43.900	50.104	
	#REF!	0.000	-1.309	44.000	50.241	
	MIN	0.0000	-1.4038	43.9000	50.0103	
	Max	0.0000	-1.1807	44.2000	50.4279	
	Mean	0.0000	-1.3062	44.0000	50.1765	
	Std. Dev	0.0000	0.0809	0.1225	0.1630	
	Mean - 3 Sigma	0.0000	-1.5490	43.6326	49.6875	
	Mean + 3 Sigma	0.0000	-1.0634	44.3674	50.6655	

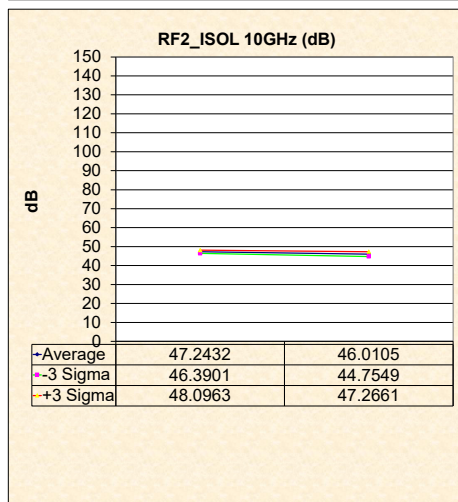
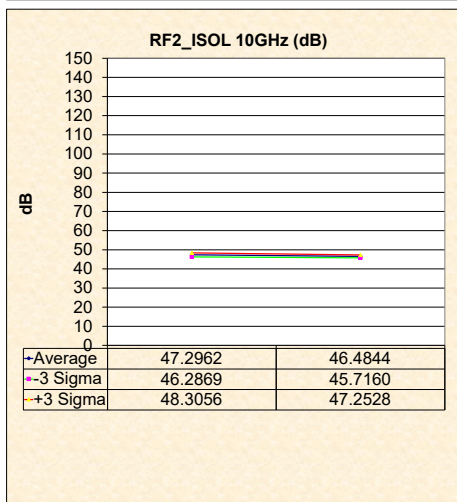
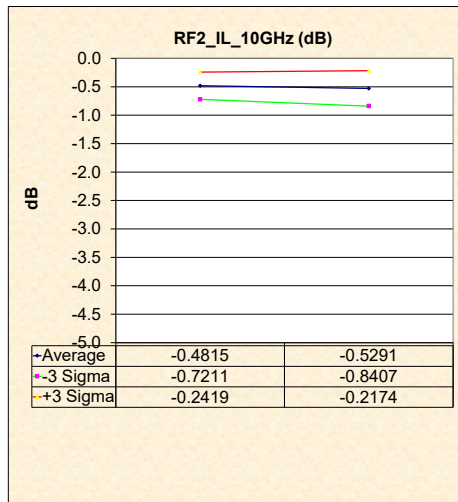
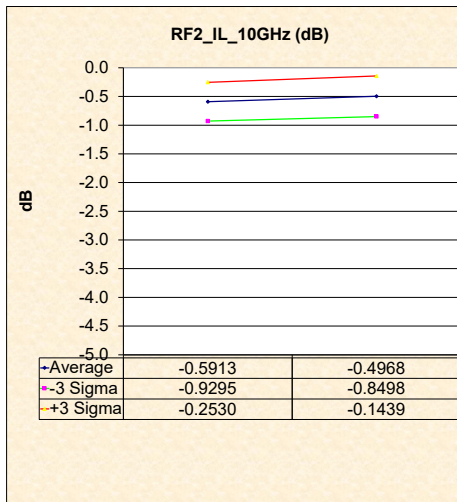
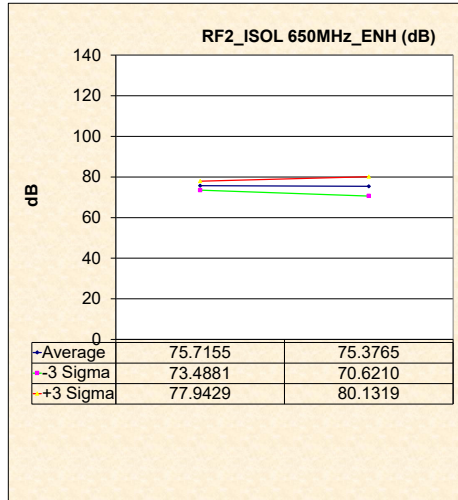
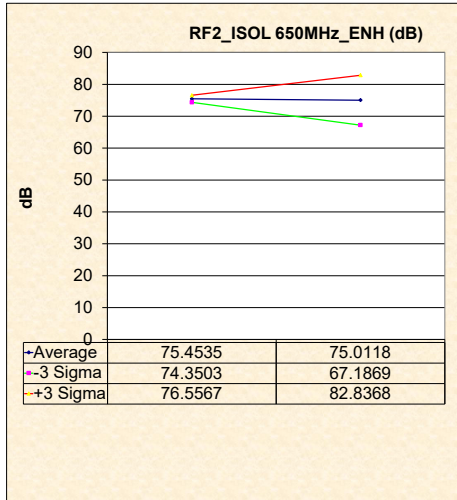
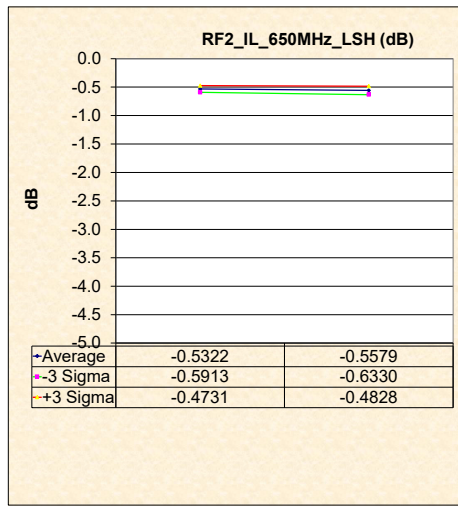
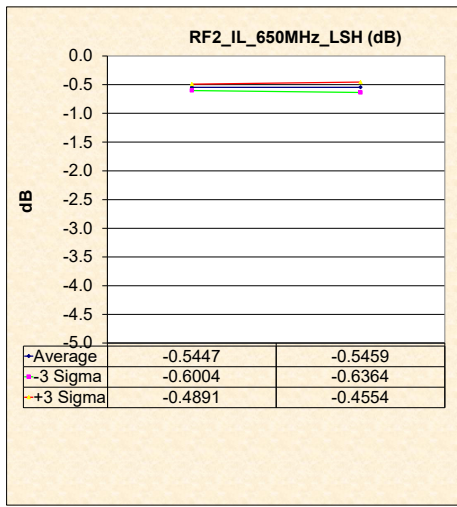


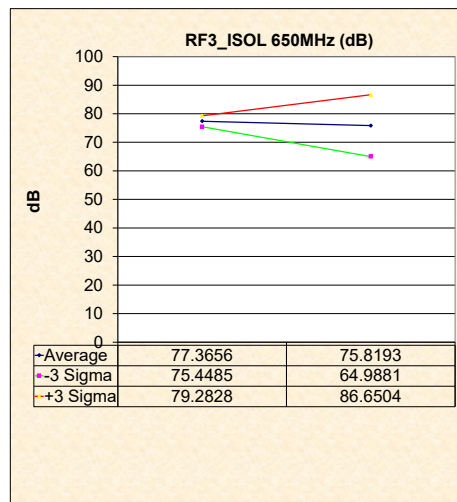
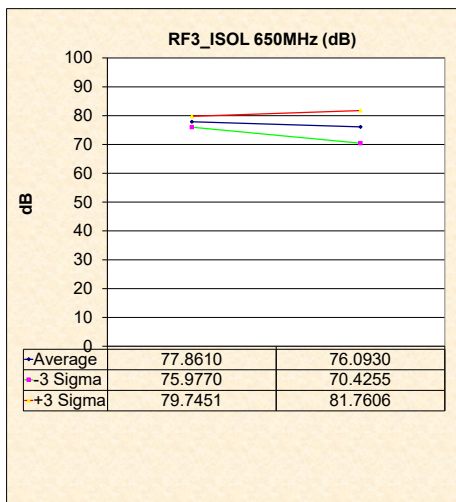
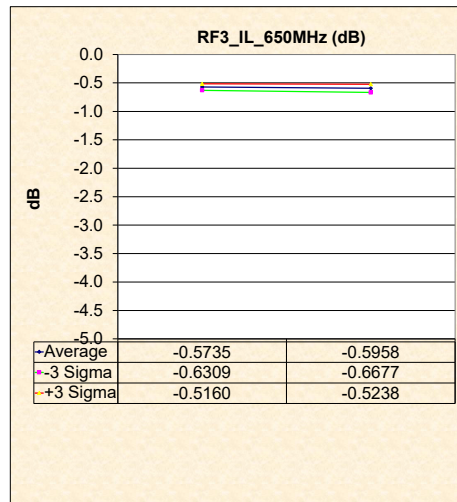
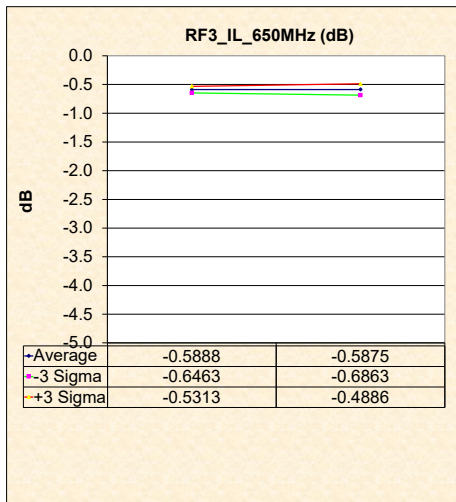
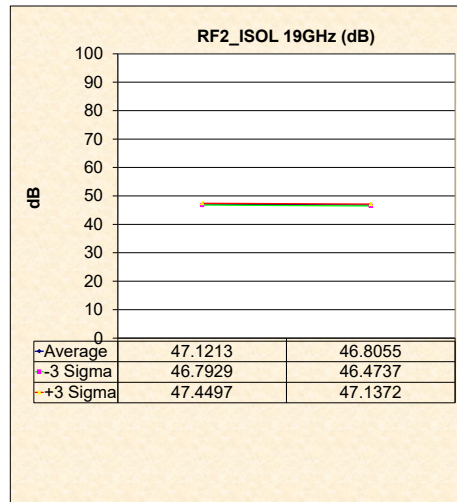
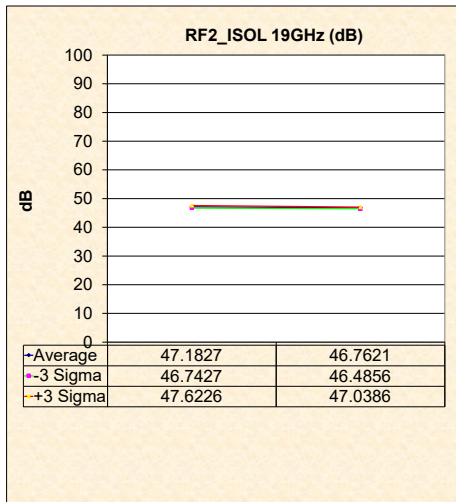
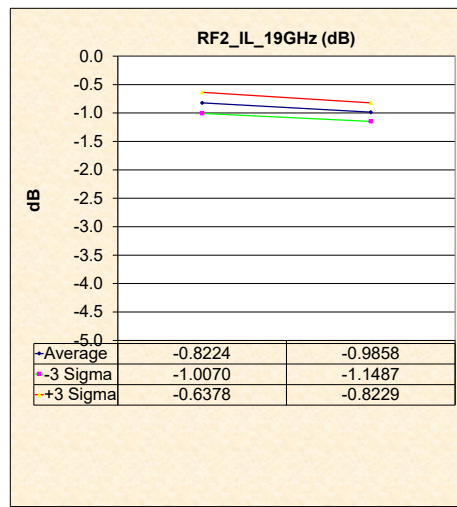
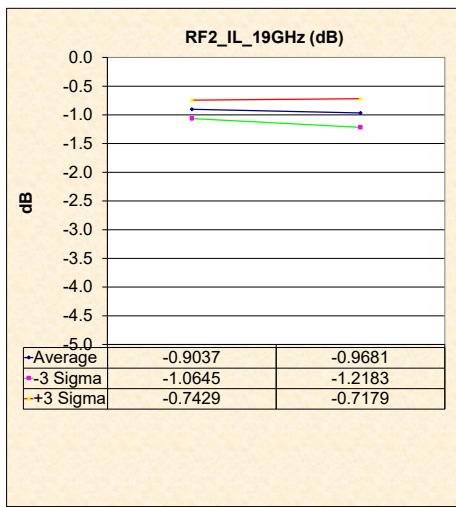


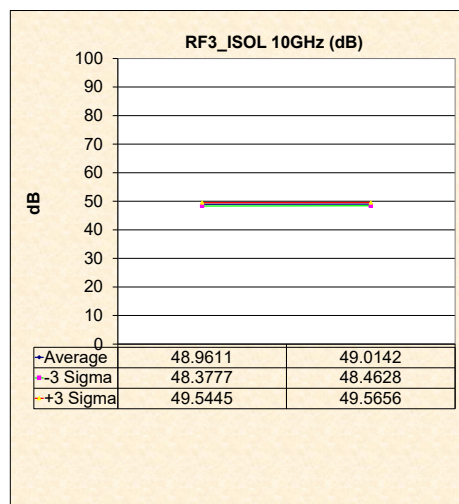
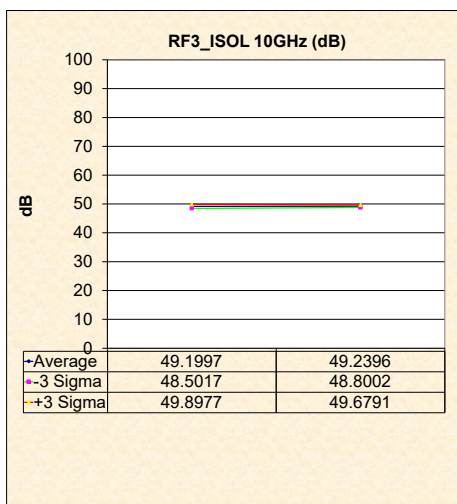
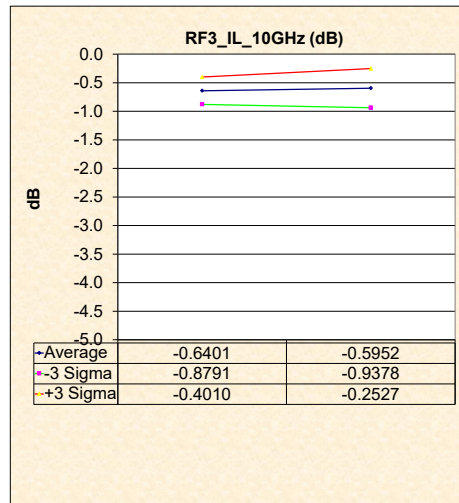
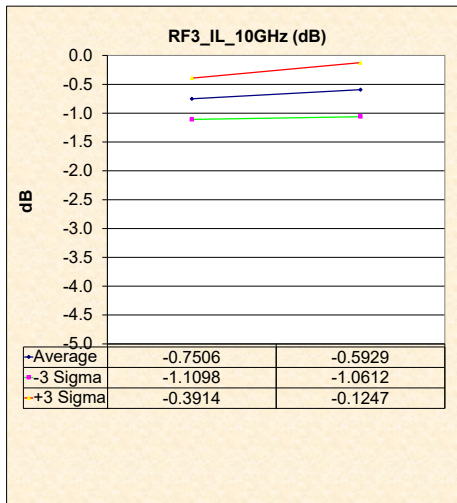
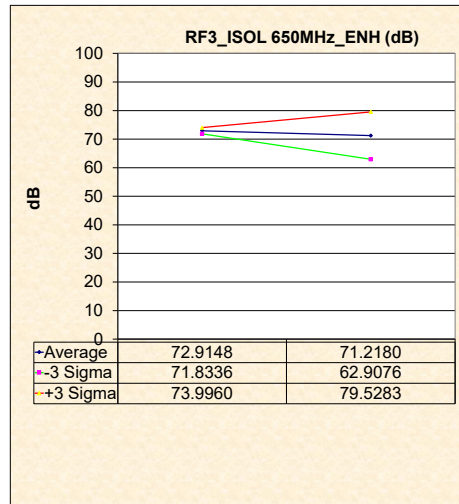
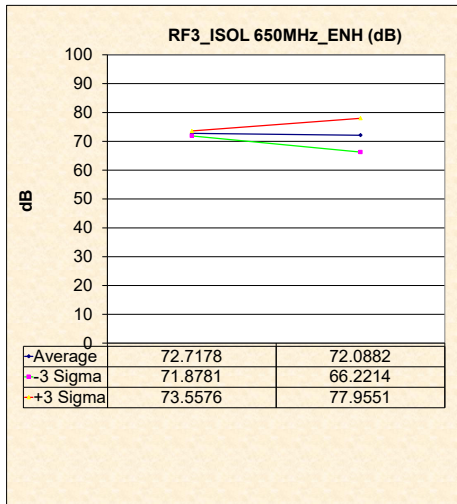
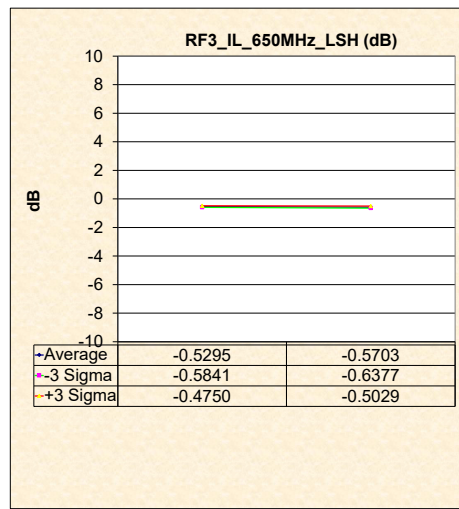
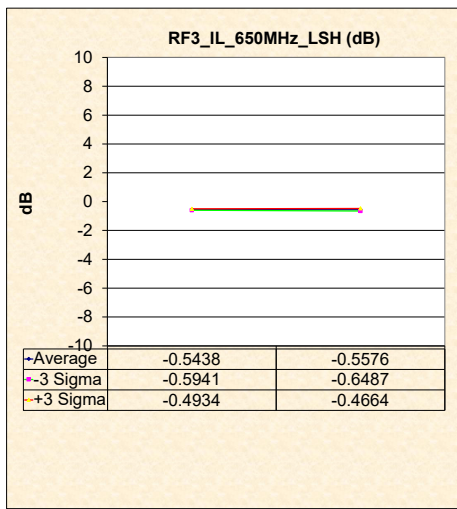


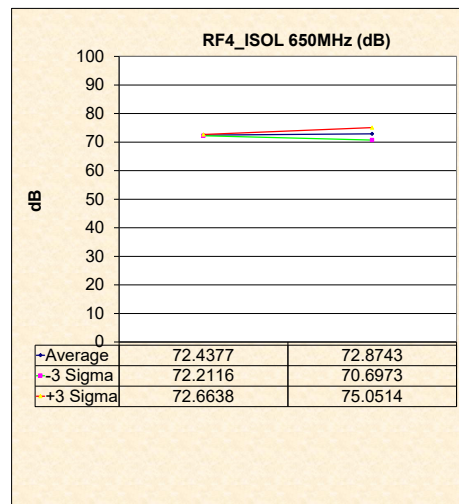
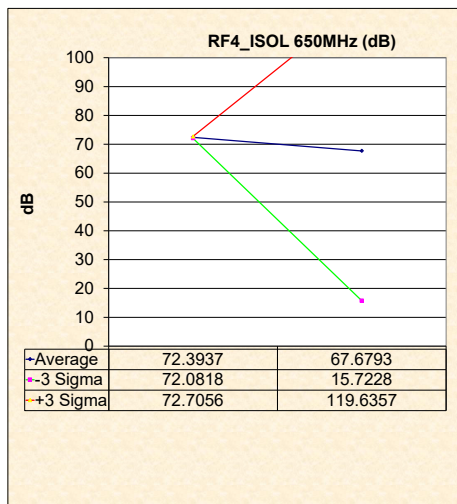
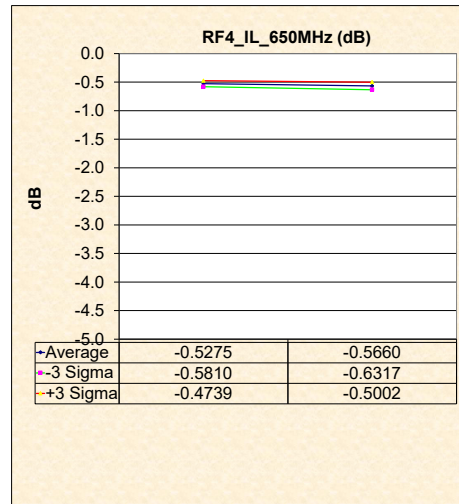
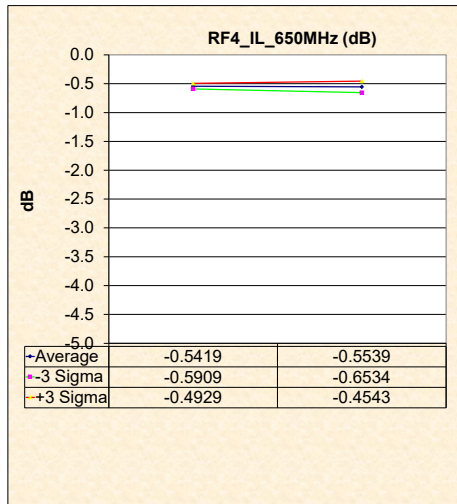
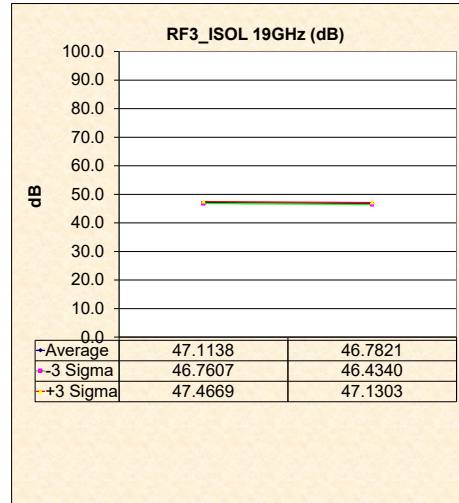
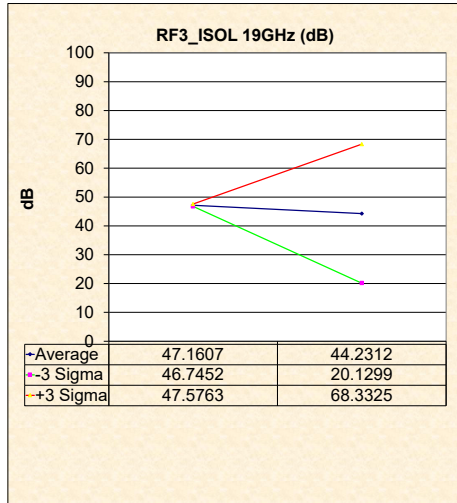
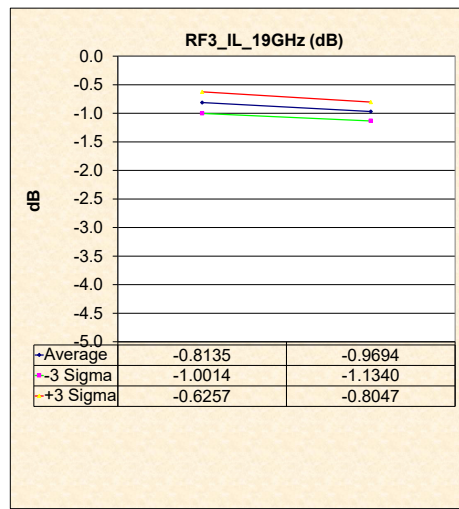
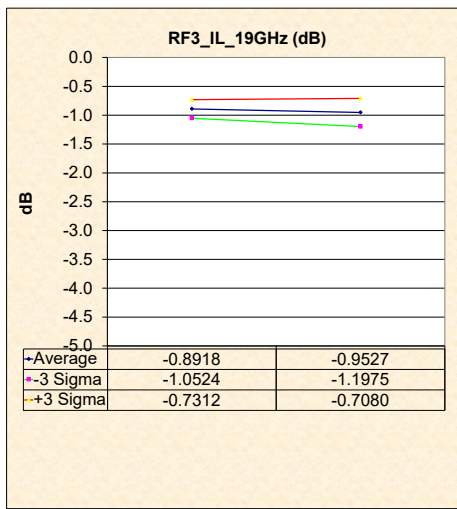


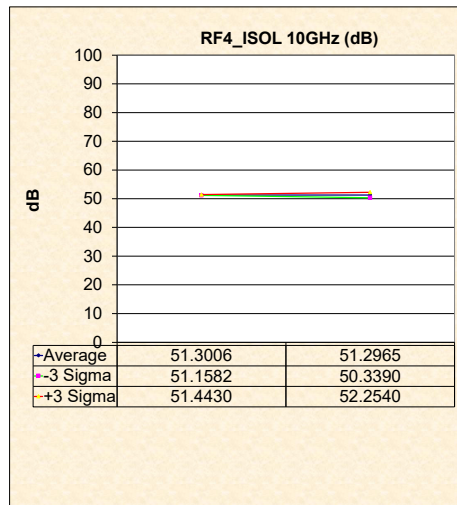
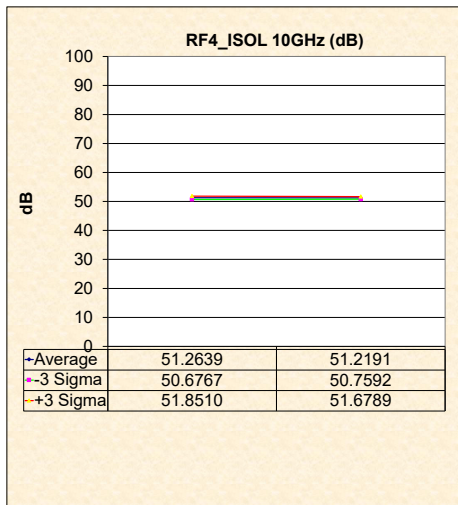
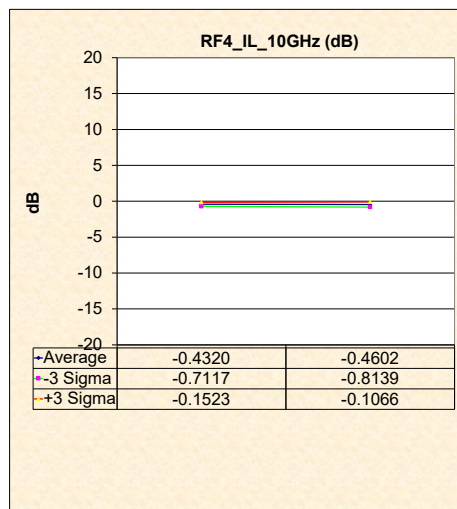
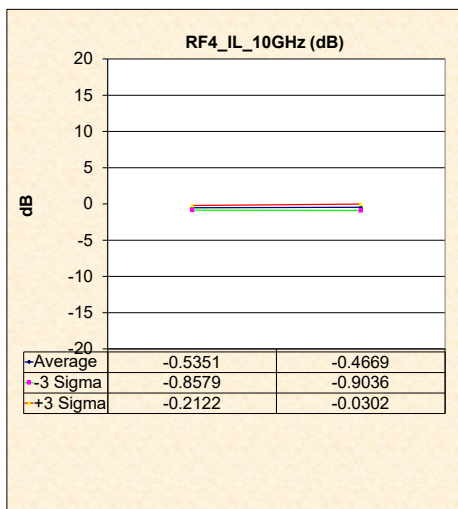
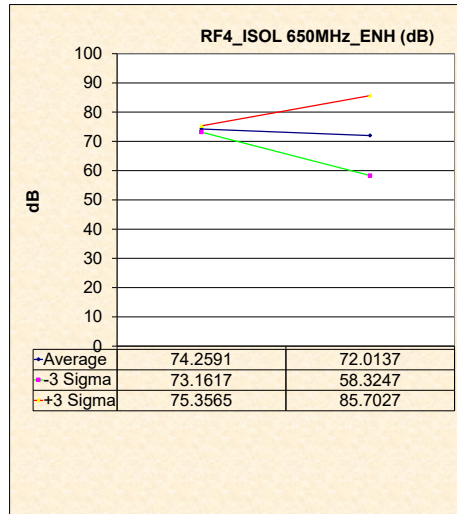
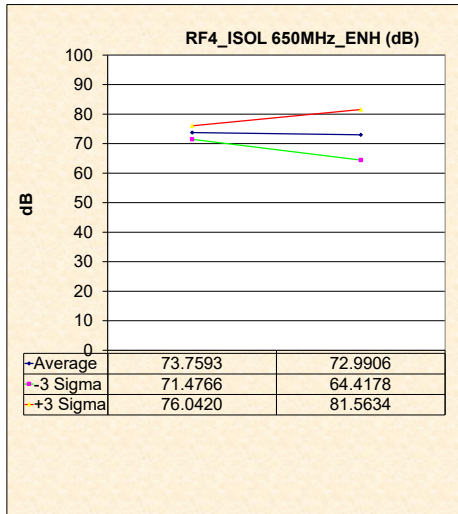
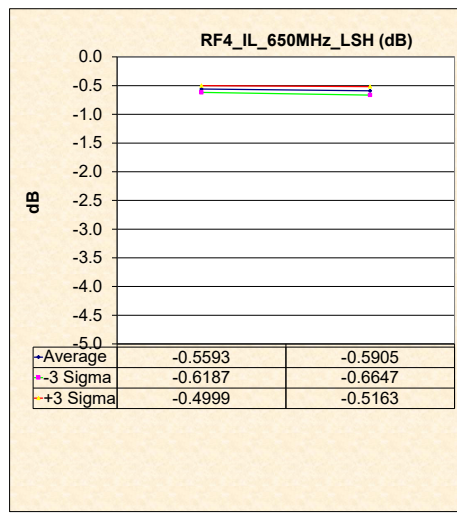
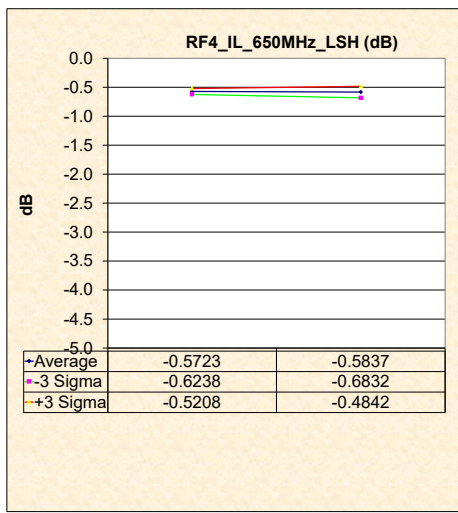


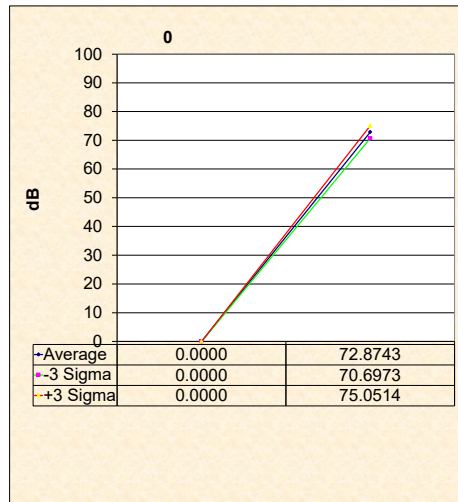
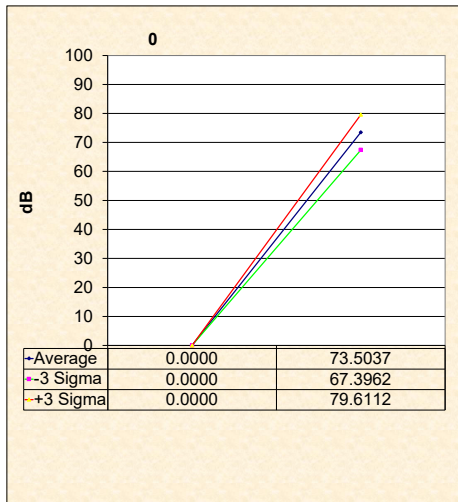
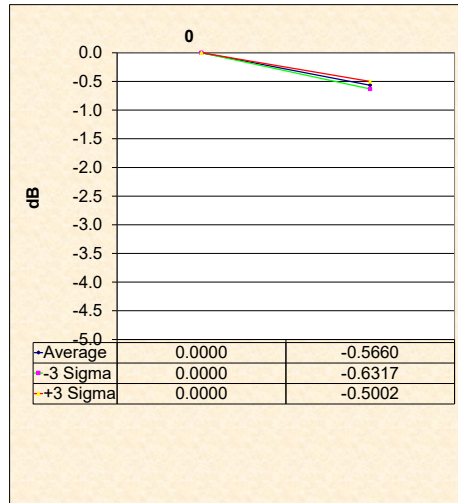
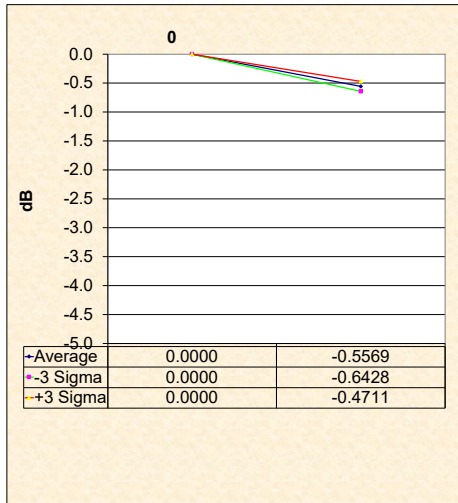
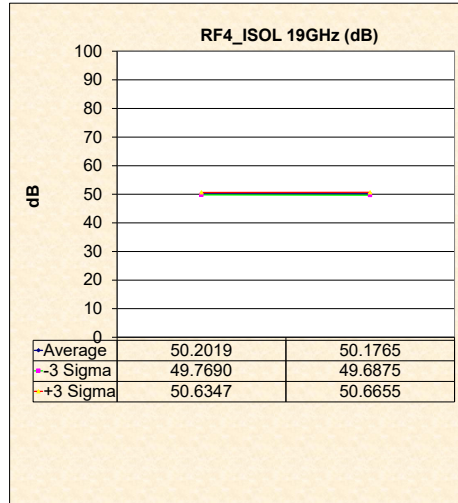
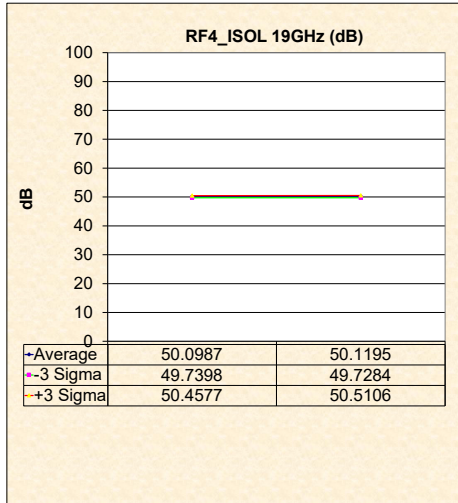
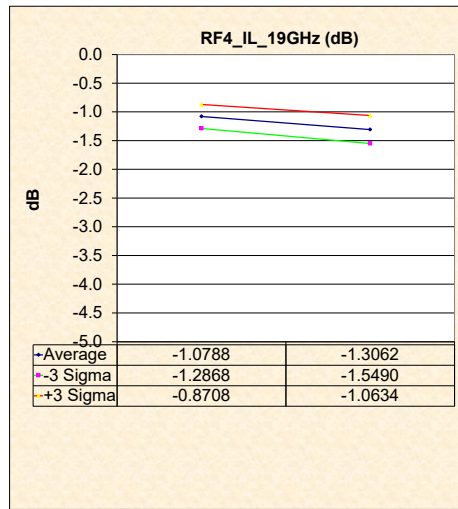
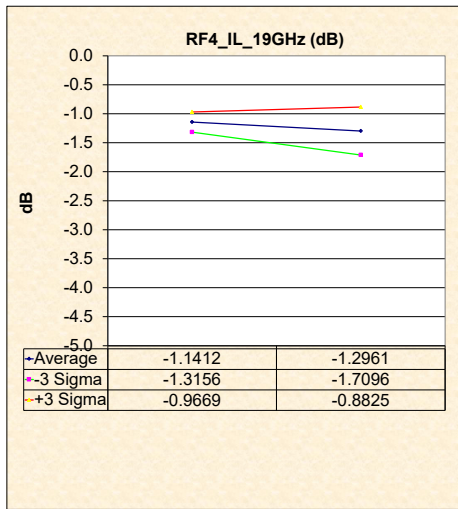


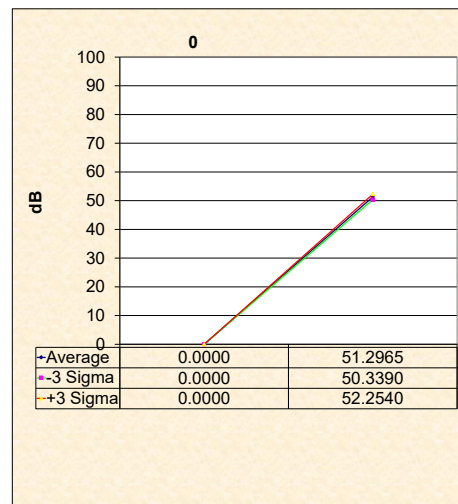
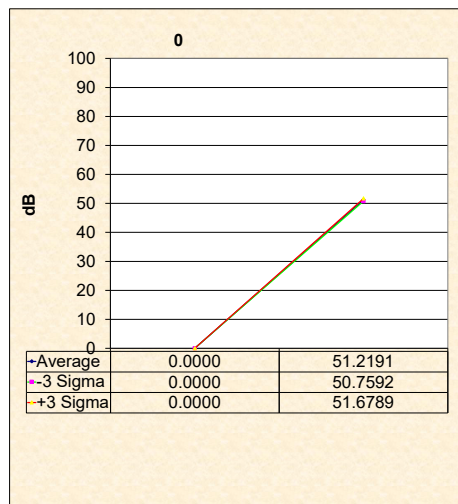
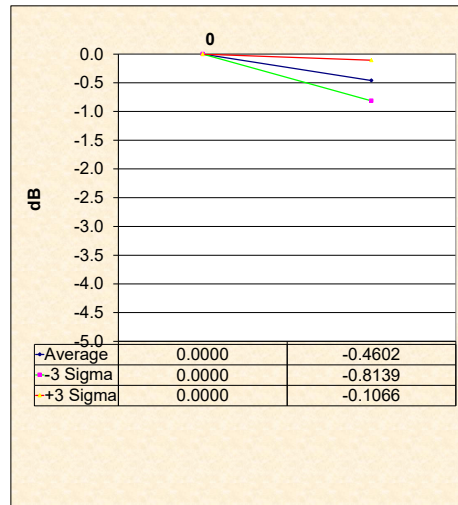
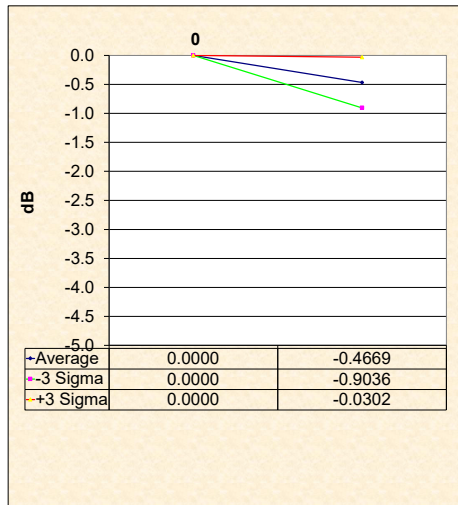
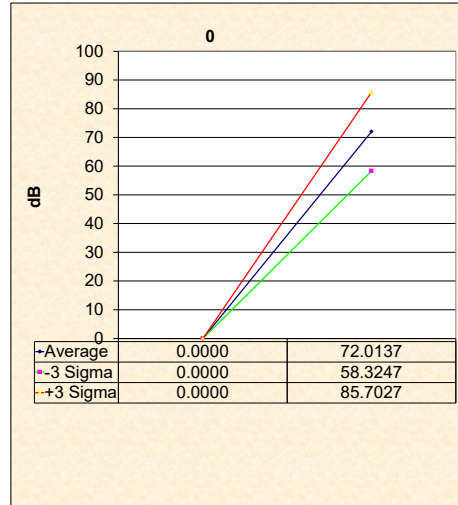
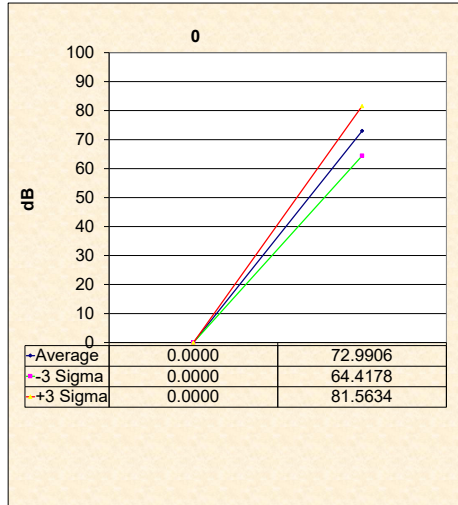
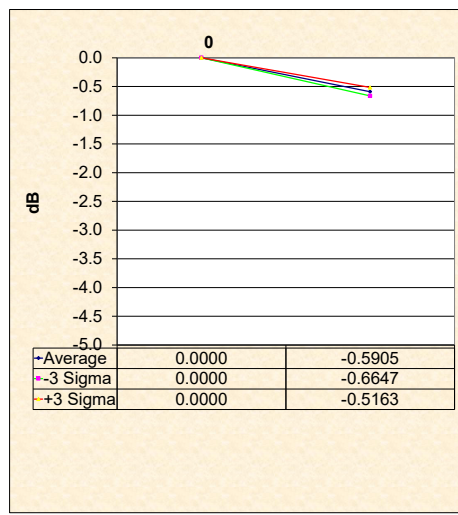
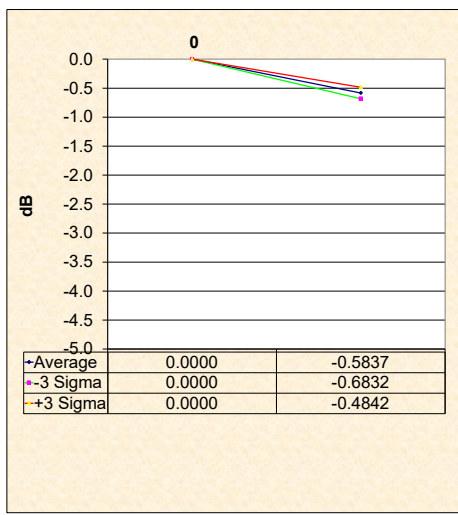


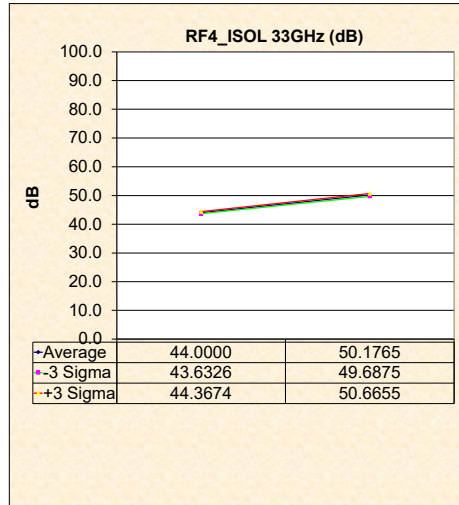
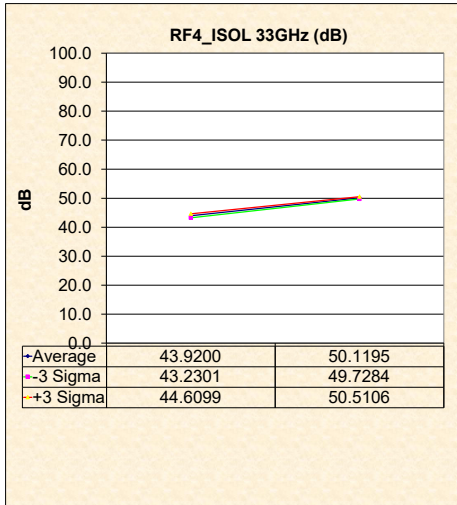
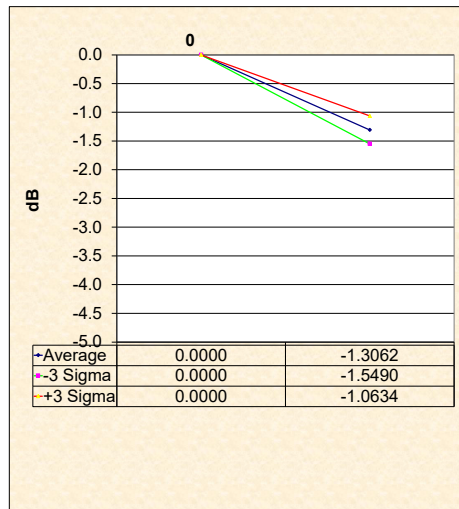
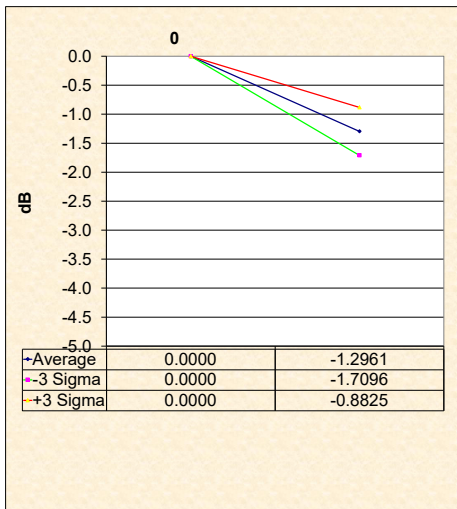


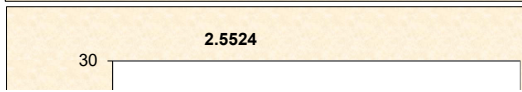
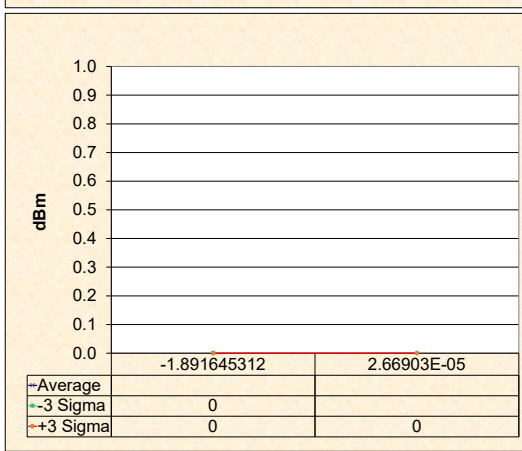
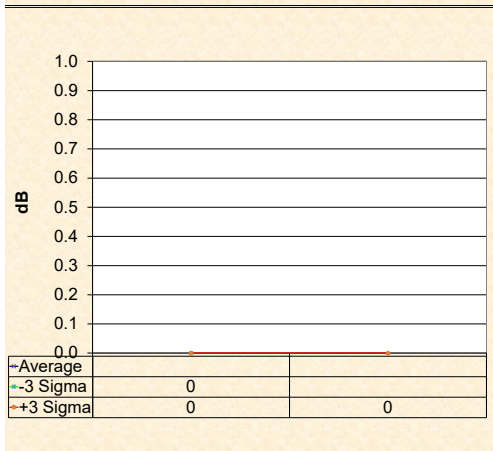
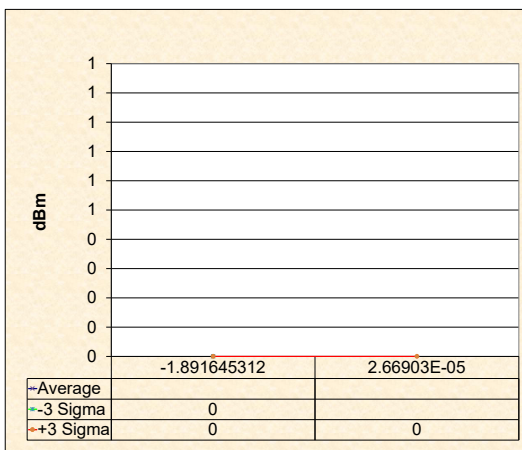
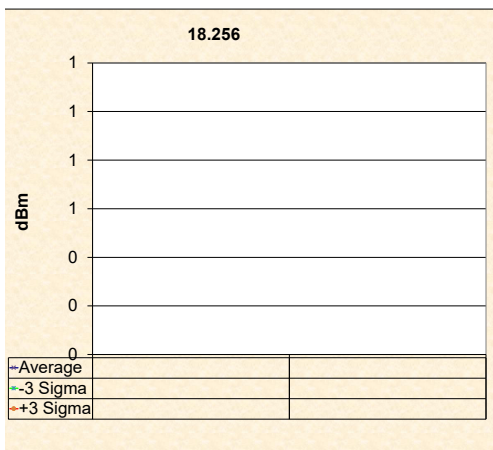
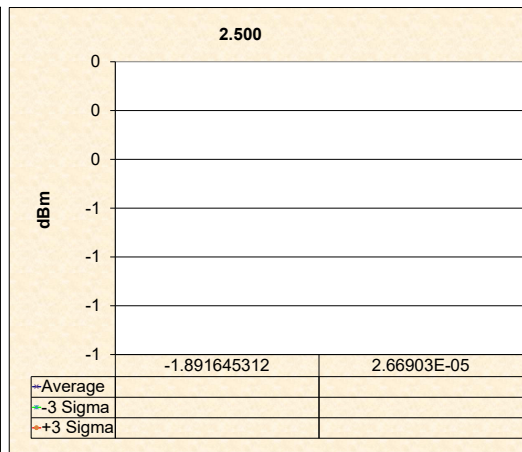
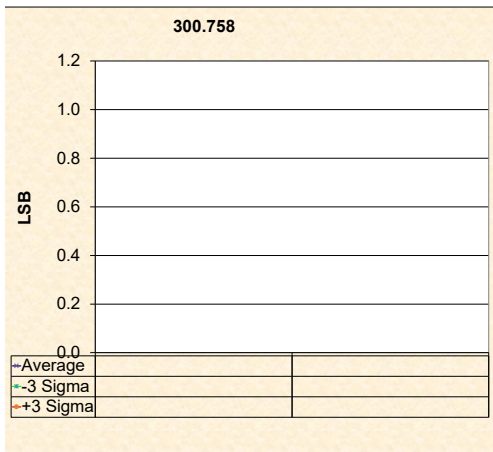


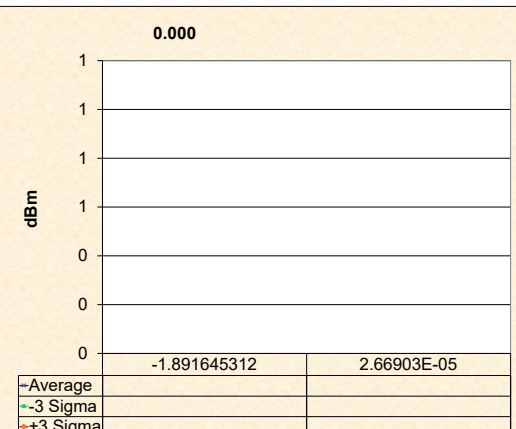
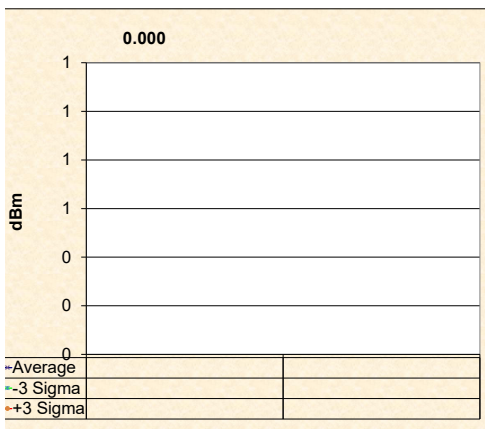
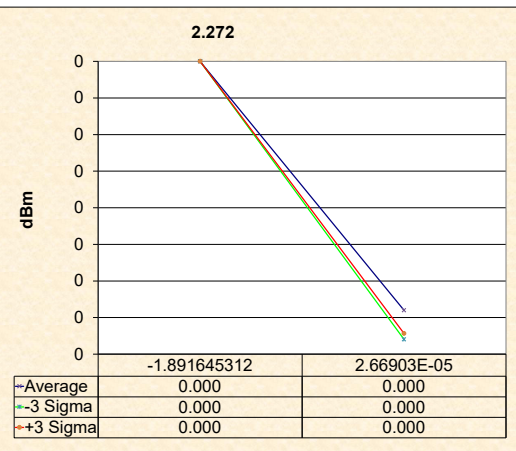
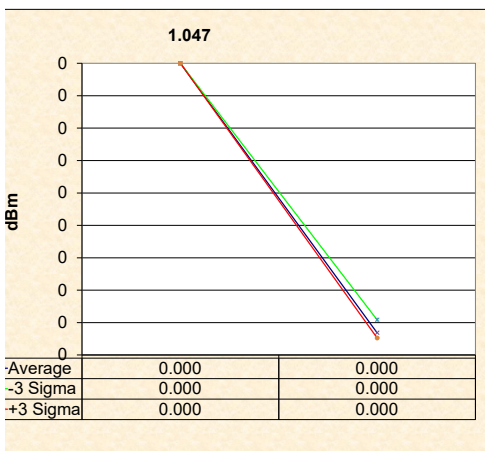
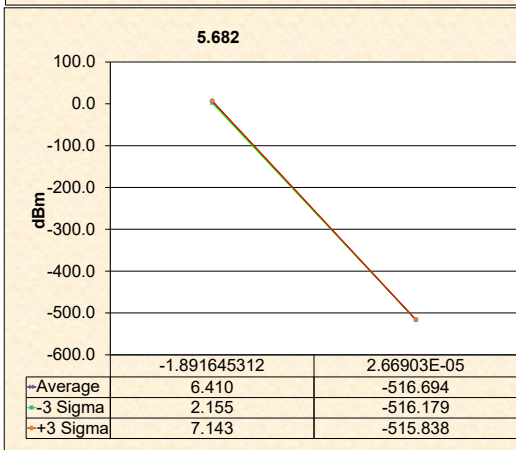
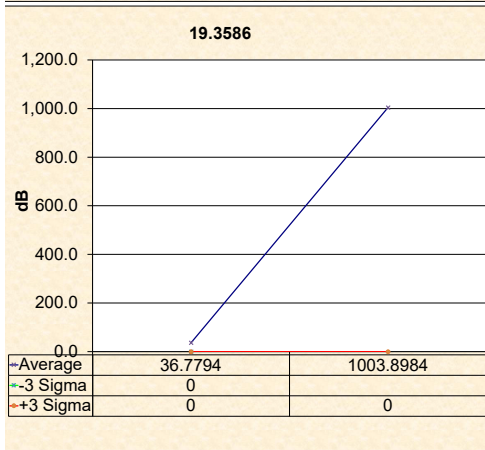
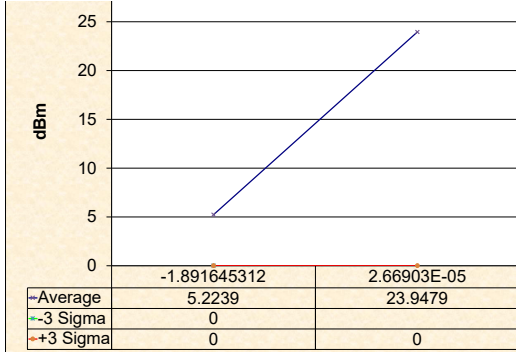
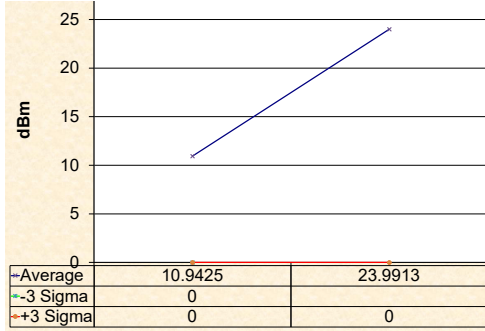


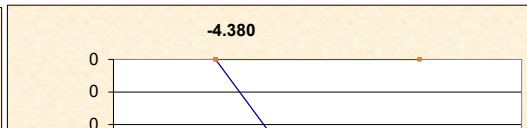
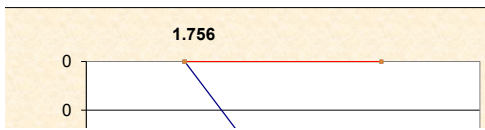
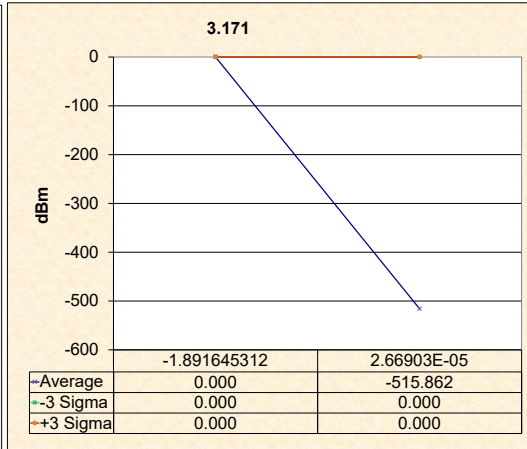
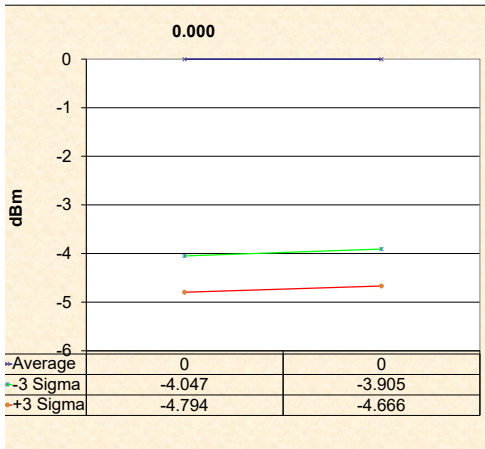
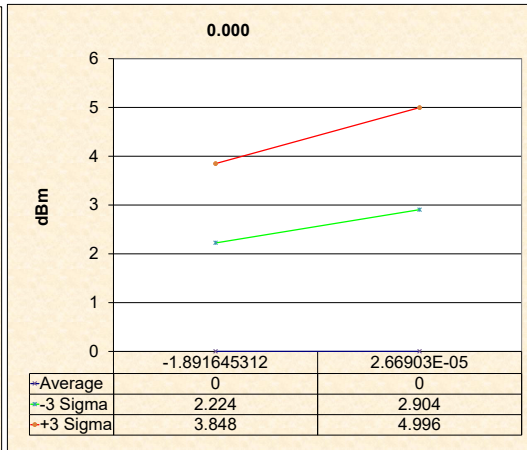
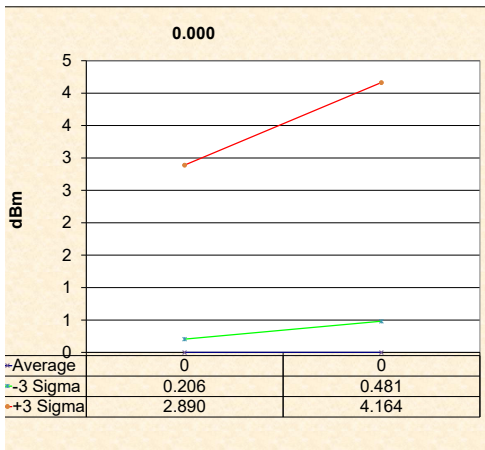
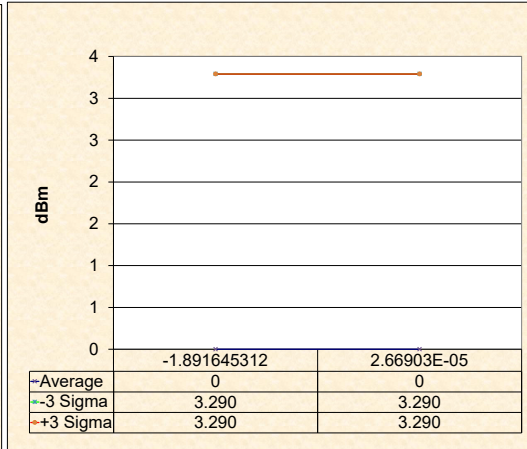
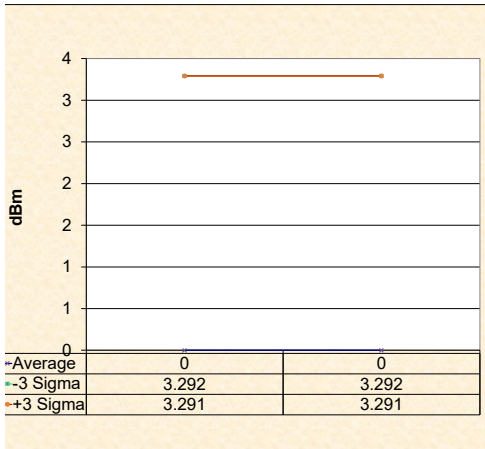
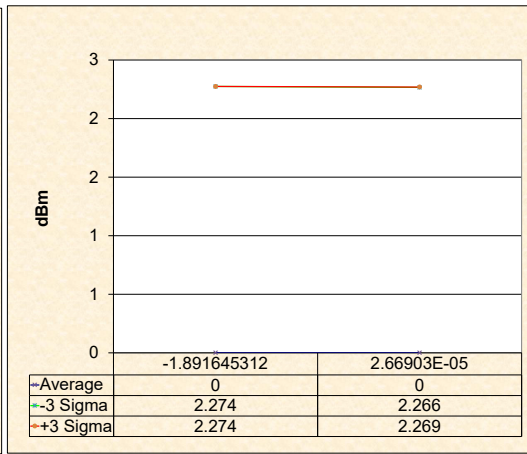
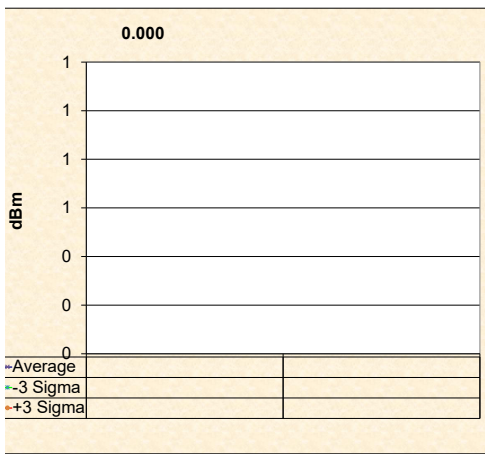


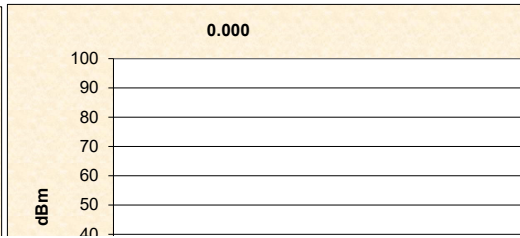
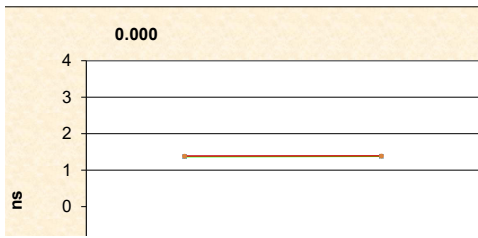
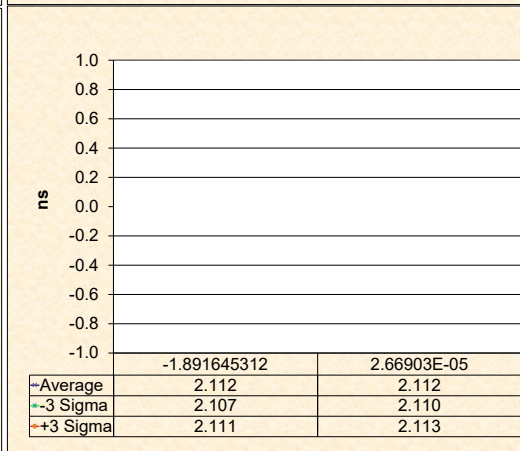
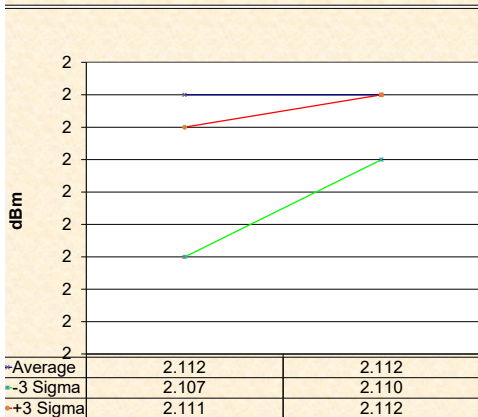
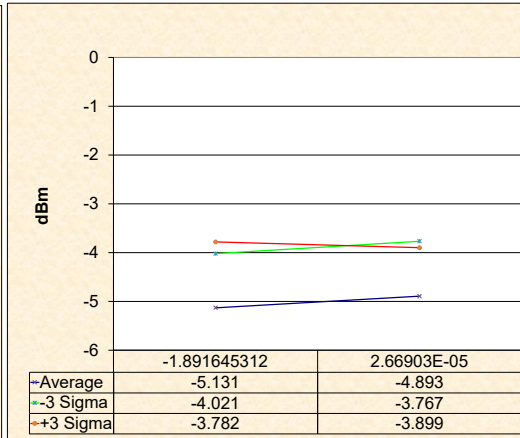
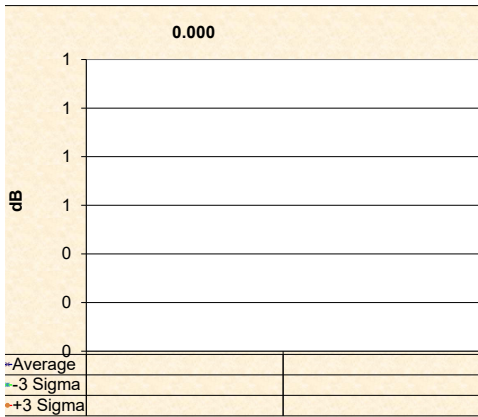
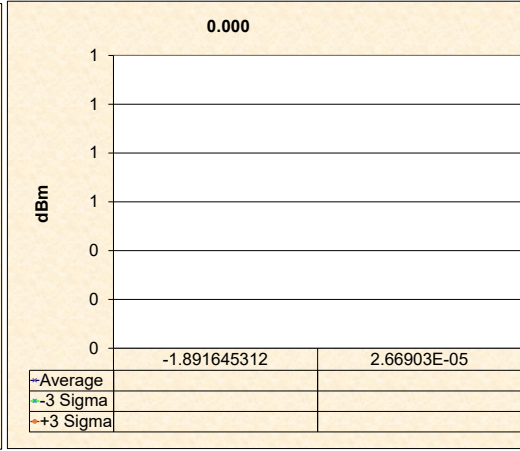
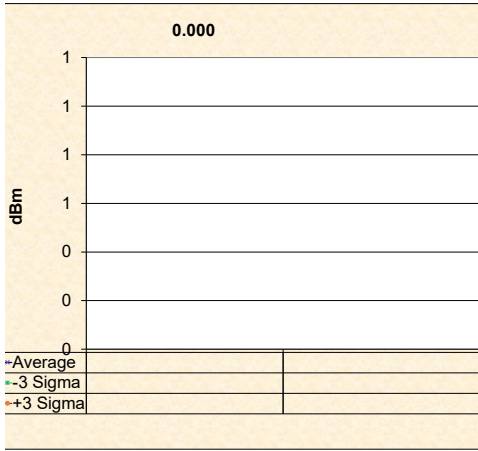
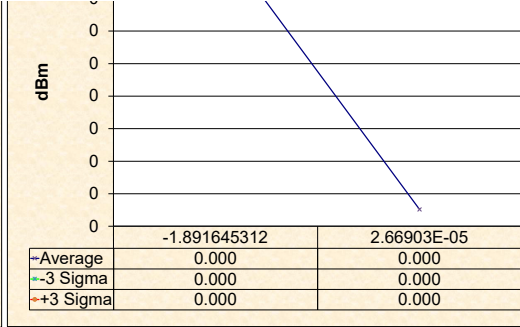
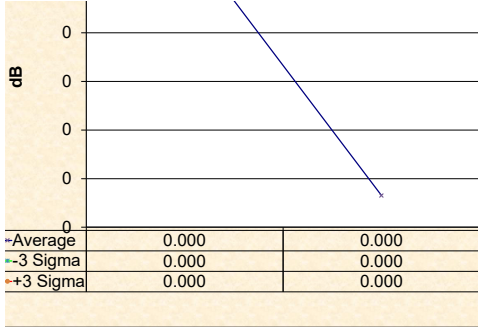


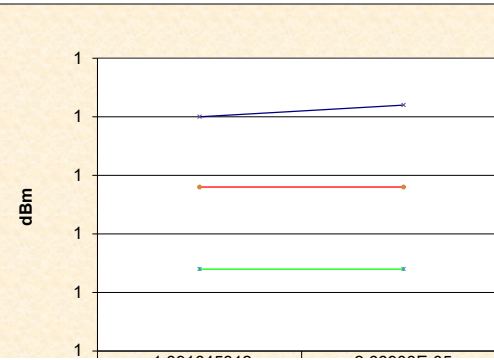
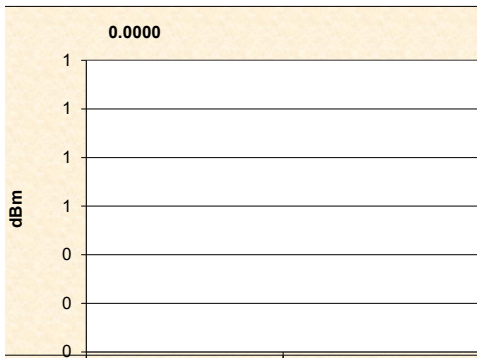
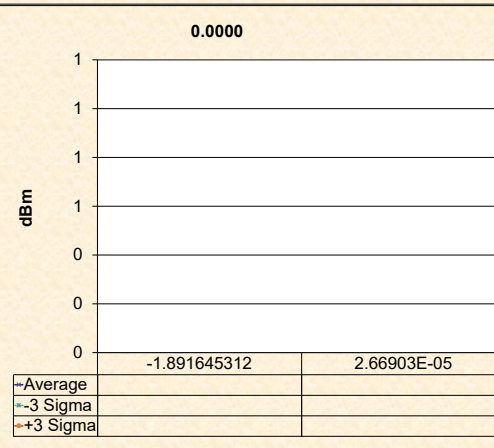
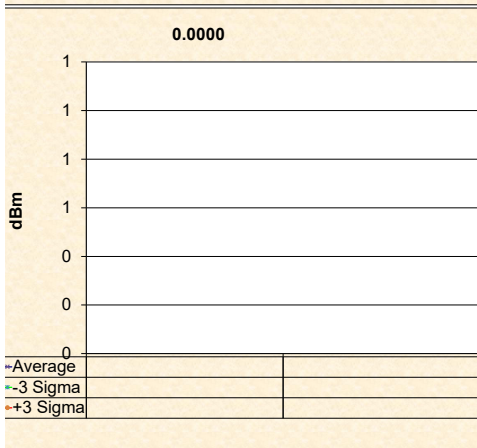
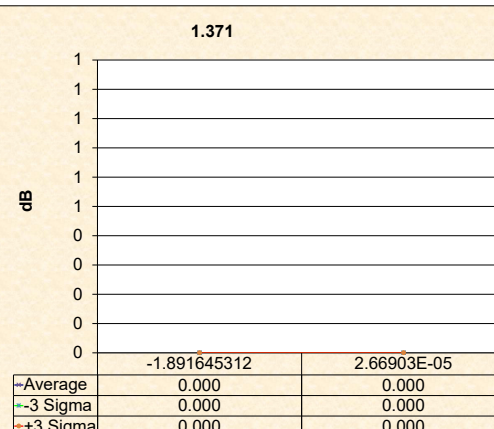
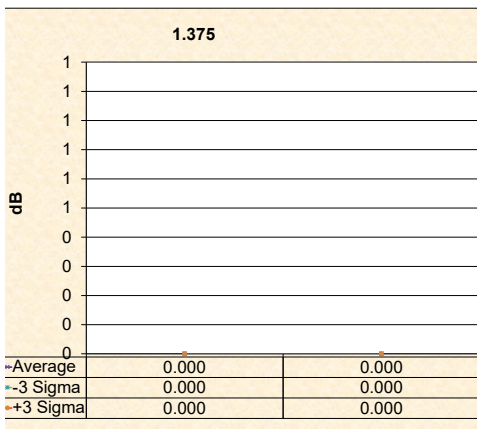
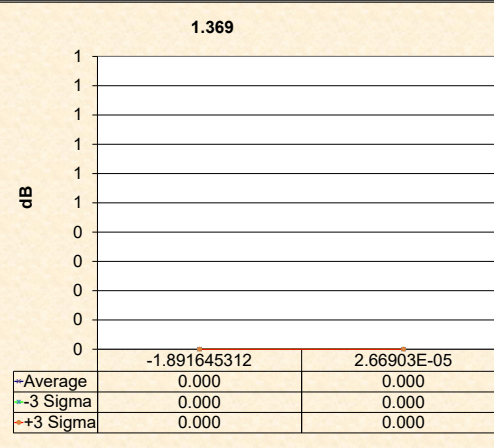
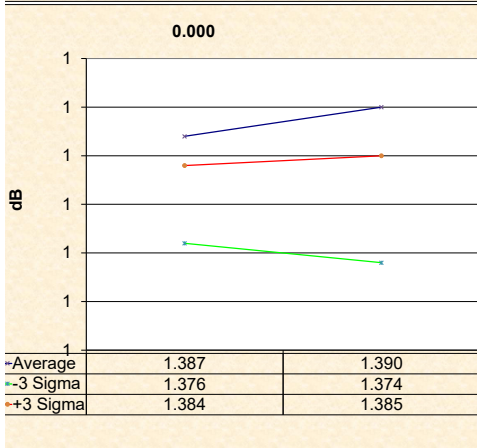
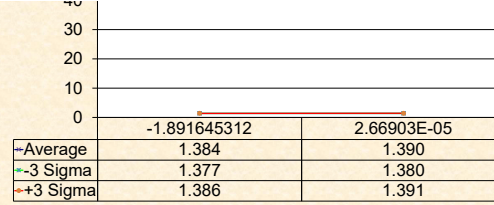
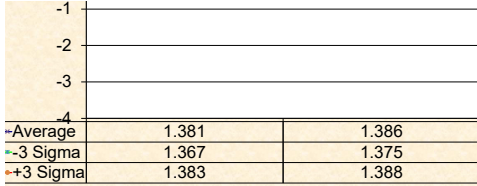






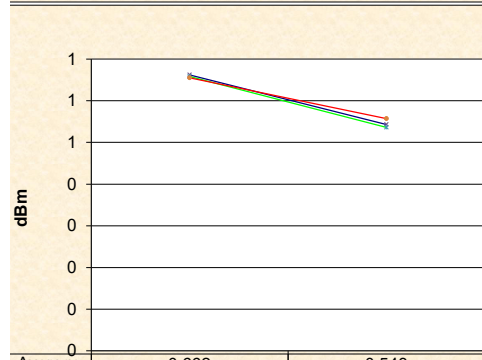




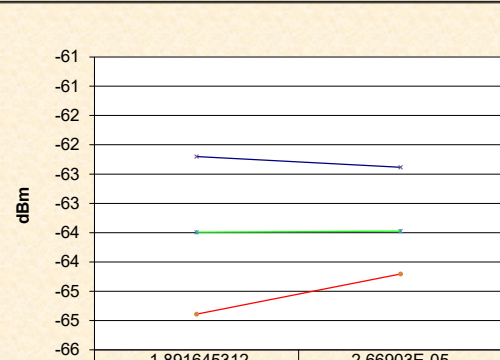


±Average		
-3 Sigma		
+3 Sigma		

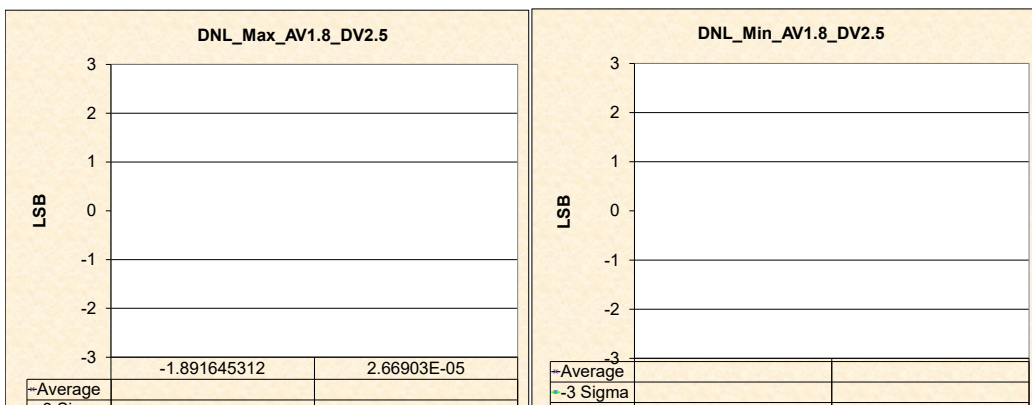
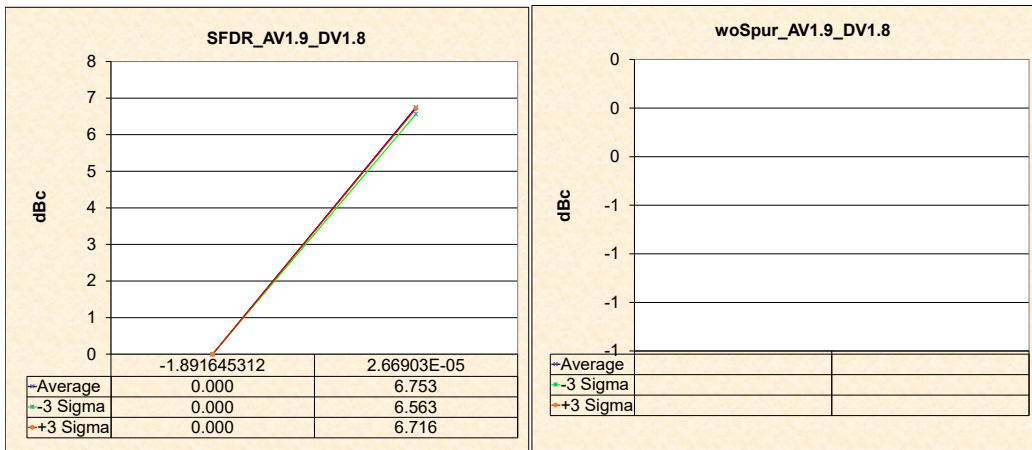
±Average	-1.891645312	2.66903E-05
-3 Sigma	1.380	1.381
+3 Sigma	1.367	1.367
+3 Sigma	1.374	1.374



±Average	0.662	0.543
-3 Sigma	0.658	0.536
+3 Sigma	0.655	0.557



±Average	-1.891645312	2.66903E-05
-3 Sigma	-62.200	-62.384
+3 Sigma	-63.493	-63.474
+3 Sigma	-64.892	-64.206



-3 Sigma	
+3 Sigma	

+3 Sigma	
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