

HIGH DOSE RADIATION TEST REPORT ADRF6780S-CSH

December 2024
Generic

Radiation Test Report	
Product:	ADRF6780S-CSH
Gamma:	0, 100k
Gamma Source:	Co60/TM1019 Condition A
Dose Rate:	164 Rad(Si)/s
Facilities:	VPT RAD
Tested:	12/05/24, 12/06/24

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		IP18_IQmode_LOx1_DetOff_RfOff (mAmps)		IPB1_IQmode_LOx1_DetOff_RfOff (mAmps)		IPBB_IQmode_LOx1_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	0.379	0.358	15.95	16.14	18.46	19.15
	13	0.409	0.389	15.95	15.96	18.50	18.43
Unbiased	19	0.387	0.388	15.91	15.90	18.07	18.22
	23	0.393	0.391	16.03	16.05	18.61	18.32
	24	0.386	0.379	15.93	15.93	18.88	18.39
	Min	0.386	0.379	15.91	15.90	18.07	18.22
	Max	0.409	0.391	16.03	16.05	18.88	18.43
	Mean	0.394	0.387	15.95	15.96	18.51	18.34
	Std. Dev	0.0105	0.0056	0.0516	0.0657	0.3343	0.0923
	Mean - 3 Sigma	0.362	0.370	15.80	15.76	17.51	18.06
	Mean + 3 Sigma	0.425	0.403	16.11	16.16	19.52	18.62
	5	0.397	0.690	15.97	15.97	18.63	18.75
	6	0.412	0.471	15.99	16.02	18.89	39.68
	7	0.384	0.646	15.96	16.00	18.89	18.53
	8	0.396	0.732	15.97	15.97	18.59	18.70
Biased	9	0.403	0.652	15.95	15.94	18.80	18.41
	10	0.397	1.604	15.96	16.05	18.59	39.68
	11	0.413	0.627	15.99	16.02	18.80	18.50
	12	0.401	0.726	16.06	16.04	18.83	18.94
	Min	0.3838	0.4714	15.95	15.94	18.59	18.41
	Max	0.4130	1.6036	16.06	16.05	18.89	39.68
	Mean	0.4004	0.7684	15.98	16.00	18.75	23.90
	Std. Dev	0.0094	0.3472	0.0360	0.0386	0.1288	9.7420
	Mean - 3 Sigma	0.3722	-0.2731	15.87	15.89	18.37	-5.33
	Mean + 3 Sigma	0.4286	1.8100	16.09	16.12	19.14	53.13

		IPDT_IQmode_LOx1_DetOff_RfOff (mAmps)		IPLO_IQmode_LOx1_DetOff_RfOff (mAmps)		IPRF_IQmode_LOx1_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	1.14	1.17	281.62	282.07	157.50	157.67
	13	1.16	1.18	281.19	280.55	159.38	158.68
	19	1.15	1.16	279.84	279.51	158.91	158.98
	23	1.16	1.17	281.27	281.31	158.60	158.75
	24	1.15	1.16	280.86	280.56	156.82	156.62
	Min	1.15	1.16	279.84	279.51	156.82	156.62
	Max	1.16	1.18	281.27	281.31	159.38	158.98
	Mean	1.15	1.17	280.79	280.48	158.43	158.26
	Std. Dev	0.0065	0.0092	0.6590	0.7374	1.1168	1.0999
	Mean - 3 Sigma	1.13	1.14	278.81	278.27	155.07	154.96
	Mean + 3 Sigma	1.17	1.20	282.77	282.69	161.78	161.56
Unbiased	5	1.19	1.17	280.07	279.34	158.36	157.68
	6	1.18	3.15	280.85	280.59	158.84	158.05
	7	1.17	1.12	281.23	280.92	158.35	158.60
	8	1.16	1.15	281.57	281.32	159.26	158.93
	9	1.16	1.18	279.46	279.42	159.64	160.11
	10	1.16	3.15	280.88	280.63	158.29	158.60
	11	1.15	1.15	280.90	280.87	158.64	159.07
	12	1.16	1.17	282.99	282.87	160.52	160.40
	Min	1.15	1.12	279.46	279.34	158.29	157.68
	Max	1.19	3.15	282.99	282.87	160.52	160.40
	Mean	1.17	1.65	280.99	280.75	158.99	158.93
	Std. Dev	0.0125	0.9224	1.0411	1.1117	0.7827	0.9342
	Mean - 3 Sigma	1.13	-1.11	277.87	277.41	156.64	156.13
	Mean + 3 Sigma	1.20	4.42	284.12	284.08	161.34	161.73
	Biased	5	1.19	1.17	280.07	279.34	158.36
6		1.18	3.15	280.85	280.59	158.84	158.05
7		1.17	1.12	281.23	280.92	158.35	158.60
8		1.16	1.15	281.57	281.32	159.26	158.93
9		1.16	1.18	279.46	279.42	159.64	160.11
10		1.16	3.15	280.88	280.63	158.29	158.60
11		1.15	1.15	280.90	280.87	158.64	159.07
12		1.16	1.17	282.99	282.87	160.52	160.40
Min		1.15	1.12	279.46	279.34	158.29	157.68
Max		1.19	3.15	282.99	282.87	160.52	160.40
Mean		1.17	1.65	280.99	280.75	158.99	158.93
Std. Dev		0.0125	0.9224	1.0411	1.1117	0.7827	0.9342
Mean - 3 Sigma		1.13	-1.11	277.87	277.41	156.64	156.13
Mean + 3 Sigma		1.20	4.42	284.12	284.08	161.34	161.73

		VPBB+VPLO+VPBI_IQmode_LOx1_DetOff_RfOff (mAmps)		VPDT+VPRF_IQmode_LOx1_DetOff_RfOff (mAmps)		IP18_IQmode_LOx2_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	316.03	317.36	158.64	158.84	0.406	0.388
Unbiased	13	315.64	314.94	160.53	159.86	0.409	0.418
	19	313.82	313.63	160.06	160.14	0.379	0.412
	23	315.90	315.67	159.76	159.93	0.422	0.403
	24	315.66	314.88	157.97	157.78	0.405	0.393
	Min	313.82	313.63	157.97	157.78	0.3785	0.3929
	Max	315.90	315.67	160.53	160.14	0.4215	0.4178
	Mean	315.26	314.78	159.58	159.43	0.4036	0.4064
	Std. Dev	0.9668	0.8487	1.1210	1.1042	0.0181	0.0109
	Mean - 3 Sigma	312.36	312.23	156.22	156.11	0.3492	0.3737
	Mean + 3 Sigma	318.16	317.33	162.94	162.74	0.4580	0.4391
Biased	5	314.67	314.07	159.54	158.85	0.398	0.705
	6	315.73	336.29	160.02	161.20	0.395	0.463
	7	316.08	315.45	159.52	159.73	0.405	0.675
	8	316.13	315.99	160.42	160.08	0.408	0.743
	9	314.22	313.77	160.80	161.28	0.423	0.658
	10	315.42	336.36	159.45	161.75	0.388	1.584
	11	315.68	315.39	159.79	160.22	0.409	0.615
	12	317.87	317.85	161.68	161.56	0.420	0.709
	Min	314.22	313.77	159.45	158.85	0.3875	0.4635
	Max	317.87	336.36	161.68	161.75	0.4226	1.5845
	Mean	315.73	320.65	160.15	160.58	0.4056	0.7692
	Std. Dev	1.0952	9.7564	0.7777	1.0231	0.0121	0.3405
	Mean - 3 Sigma	312.44	291.38	157.82	157.51	0.3694	-0.2521
	Mean + 3 Sigma	319.01	349.92	162.49	163.65	0.4418	1.7906

		IPB1_IQmode_LOx2_DetOff_RfOff (mAmps)		IPBB_IQmode_LOx2_DetOff_RfOff (mAmps)		IPDT_IQmode_LOx2_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	15.99	16.19	18.80	18.99	1.174	1.158
Unbiased	13	15.99	15.96	18.43	18.63	1.153	1.199
	19	15.95	15.93	18.65	18.36	1.143	1.160
	23	16.09	16.07	18.78	18.82	1.186	1.163
	24	15.97	15.98	18.63	18.47	1.168	1.126
	Min	15.95	15.93	18.43	18.36	1.143	1.126
	Max	16.09	16.07	18.78	18.82	1.186	1.199
	Mean	16.00	15.98	18.62	18.57	1.163	1.162
	Std. Dev	0.0627	0.0595	0.1437	0.1973	0.0187	0.0300
	Mean - 3 Sigma	15.81	15.81	18.19	17.98	1.106	1.072
Mean + 3 Sigma	16.19	16.16	19.05	19.16	1.219	1.252	
Biased	5	16.03	16.00	18.54	18.57	1.170	1.171
	6	16.01	16.08	18.54	39.68	1.176	3.149
	7	16.06	16.03	18.93	18.75	1.155	1.171
	8	16.01	16.04	18.73	18.66	1.167	1.164
	9	16.00	15.96	18.73	18.76	1.180	1.128
	10	16.02	16.05	18.57	39.68	1.182	3.149
	11	16.06	16.06	18.39	18.09	1.181	1.156
	12	16.07	16.12	18.51	18.71	1.186	1.146
	Min	16.00	15.96	18.39	18.09	1.155	1.128
	Max	16.07	16.12	18.93	39.68	1.186	3.149
	Mean	16.03	16.04	18.62	23.86	1.175	1.654
	Std. Dev	0.0298	0.0463	0.1696	9.7671	0.0103	0.9228
	Mean - 3 Sigma	15.94	15.90	18.11	-5.44	1.144	-1.114
Mean + 3 Sigma	16.12	16.18	19.13	53.16	1.205	4.423	

		IPLO_IQmode_LOx2_DetOff_RfOff (mAmps)		IPRF_IQmode_LOx2_DetOff_RfOff (mAmps)		VPBB+VPLO+VPBI_IQmode_LOx2_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	333.73	332.72	157.60	157.65	368.52	367.90
Unbiased	13	332.52	332.39	158.81	158.99	366.95	366.98
	19	331.45	330.71	159.44	158.96	366.05	365.01
	23	333.46	332.79	159.31	158.89	368.33	367.68
	24	332.32	332.19	156.41	156.41	366.93	366.64
	Min	331.45	330.71	156.41	156.41	366.05	365.01
	Max	333.46	332.79	159.44	158.99	368.33	367.68
	Mean	332.44	332.02	158.49	158.31	367.06	366.57
	Std. Dev	0.82	0.91	1.41	1.27	0.94	1.13
	Mean - 3 Sigma	329.97	329.30	154.25	154.51	364.24	363.18
	Mean + 3 Sigma	334.91	334.74	162.73	162.11	369.89	369.97
Biased	5	332.46	331.85	158.07	158.00	367.02	366.43
	6	332.66	282.10	158.16	158.24	367.20	337.86
	7	332.92	333.19	159.11	158.98	367.91	367.96
	8	333.80	333.46	159.26	159.13	368.54	368.16
	9	331.52	279.89	159.22	159.77	366.25	314.61
	10	332.66	282.10	158.16	159.11	367.24	337.83
	11	332.99	333.26	159.40	159.08	367.44	367.41
	12	335.20	335.20	161.21	160.11	369.79	370.02
	Min	331.52	279.89	158.07	158.00	366.25	314.61
	Max	335.20	335.20	161.21	160.11	369.79	370.02
	Mean	333.03	313.88	159.08	159.05	367.68	353.79
	Std. Dev	1.0828	26.9534	1.0287	0.6978	1.0827	20.9056
	Mean - 3 Sigma	329.78	233.02	155.99	156.96	364.43	291.07
	Mean + 3 Sigma	336.27	394.74	162.16	161.15	370.92	416.50

		VPDT+VPRF_IQmode_LOx2_DetOff_RfOff (mAmps)		IP18_IQmode_LOx1_DetOn_RfOff (mAmps)		IPB1_IQmode_LOx1_DetOn_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	158.77	158.80	0.374	0.380	16.01	16.18
Unbiased	13	159.97	160.19	0.414	0.388	16.02	15.98
	19	160.58	160.12	0.398	0.403	15.97	15.97
	23	160.50	160.05	0.389	0.422	16.11	16.09
	24	157.58	157.54	0.413	0.425	15.98	16.00
	Min	157.58	157.54	0.389	0.388	15.97	15.97
	Max	160.58	160.19	0.414	0.425	16.11	16.09
	Mean	159.65	159.47	0.403	0.410	16.02	16.01
	Std. Dev	1.41	1.29	0.0122	0.0176	0.0621	0.0554
	Mean - 3 Sigma	155.42	155.60	0.366	0.357	15.83	15.84
	Mean + 3 Sigma	163.89	163.35	0.440	0.462	16.21	16.18
Biased	5	159.24	159.17	0.421	0.696	16.03	16.03
	6	159.34	161.39	0.434	0.494	16.03	16.11
	7	160.26	160.15	0.401	0.644	16.06	16.09
	8	160.42	160.29	0.396	0.764	16.04	16.04
	9	160.40	160.90	0.386	0.661	16.00	15.98
	10	159.34	162.26	0.406	1.601	16.04	16.12
	11	160.58	160.24	0.389	0.625	16.07	16.10
	12	162.40	161.25	0.401	0.716	16.12	16.10
	Min	159.24	159.17	0.386	0.494	16.00	15.98
	Max	162.40	162.26	0.434	1.601	16.12	16.12
	Mean	160.25	160.71	0.404	0.775	16.05	16.07
	Std. Dev	1.03	0.95	0.0162	0.3432	0.0340	0.0498
	Mean - 3 Sigma	157.15	157.87	0.356	-0.254	15.95	15.92
	Mean + 3 Sigma	163.34	163.55	0.453	1.805	16.15	16.22

		IPBB_IQmode_LOx1_DetOn_RfOff (mAmps)		IPDT_IQmode_LOx1_DetOn_RfOff (mAmps)		IPLO_IQmode_LOx1_DetOn_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	18.63	18.49	50.91	52.97	283.68	284.15
	13	18.84	18.81	50.71	50.79	283.17	282.50
Unbiased	19	18.78	18.48	50.64	50.81	282.06	281.61
	23	18.66	18.57	51.33	51.37	283.66	283.37
	24	18.90	18.76	50.84	50.84	282.93	282.66
	Min	18.66	18.48	50.64	50.79	282.06	281.61
	Max	18.90	18.81	51.33	51.37	283.66	283.37
	Mean	18.79	18.66	50.88	50.95	282.96	282.54
	Std. Dev	0.1015	0.1551	0.3132	0.2826	0.6692	0.7209
	Mean - 3 Sigma	18.49	18.19	49.94	50.10	280.95	280.37
	Mean + 3 Sigma	19.10	19.12	51.82	51.80	284.96	284.70
	5	18.52	18.86	50.95	51.07	282.28	281.40
Biased	6	18.68	39.68	50.81	51.35	282.98	283.70
	7	18.79	18.69	50.93	51.15	283.45	283.19
	8	18.59	18.58	50.89	51.15	283.90	283.40
	9	18.57	18.42	50.66	1.14	281.57	280.86
	10	18.61	39.68	51.13	51.59	282.94	283.86
	11	18.61	18.41	50.84	50.94	282.99	283.11
	12	18.47	18.68	51.03	51.13	285.32	284.94
	Min	18.47	18.41	50.66	1.14	281.57	280.86
	Max	18.79	39.68	51.13	51.59	285.32	284.94
	Mean	18.61	23.88	50.90	44.94	283.18	283.06
	Std. Dev	0.0974	9.7564	0.1431	17.6978	1.1163	1.3261
	Mean - 3 Sigma	18.31	-5.39	50.48	-8.15	279.83	279.08
	Mean + 3 Sigma	18.90	53.15	51.33	98.03	286.53	287.04

		IPRF_IQmode_LOx1_DetOn_RfOff (mAmps)		VPBB+VPLO+VPBI_IQmode_LOx1_DetOn_RfOff (mAmps)		VPDT+VPRF_IQmode_LOx1_DetOn_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	157.81	158.08	318.31	318.83	208.714	211.056
Unbiased	13	158.97	159.06	318.02	317.30	209.680	209.846
	19	159.37	158.16	316.81	316.07	210.006	208.968
	23	159.64	159.12	318.43	318.03	210.969	210.495
	24	157.24	156.87	317.81	317.42	208.087	207.706
	Min	157.24	156.87	316.81	316.07	208.087	207.706
	Max	159.64	159.12	318.43	318.03	210.969	210.495
	Mean	158.81	158.30	317.77	317.20	209.685	209.254
	Std. Dev	1.08	1.05	0.69	0.82	1.198	1.207
	Mean - 3 Sigma	155.57	155.14	315.70	314.73	206.091	205.633
	Mean + 3 Sigma	162.04	161.46	319.84	319.68	213.280	212.874
Biased	5	158.26	158.22	316.83	316.29	209.211	209.282
	6	158.64	158.28	317.69	339.48	209.457	209.628
	7	158.90	158.62	318.31	317.96	209.828	209.769
	8	159.15	158.23	318.53	318.03	210.034	209.375
	9	159.15	159.94	316.14	315.26	209.813	161.083
	10	158.28	158.36	317.59	339.67	209.413	209.947
	11	159.36	159.58	317.66	317.62	210.201	210.528
	12	160.40	160.42	319.91	319.73	211.432	211.553
	Min	158.26	158.22	316.14	315.26	209.211	161.083
	Max	160.40	160.42	319.91	339.67	211.432	211.553
	Mean	159.02	158.96	317.83	323.00	209.924	203.896
	Std. Dev	0.69	0.89	1.13	10.31	0.694	17.315
	Mean - 3 Sigma	156.94	156.29	314.43	292.07	207.841	151.952
	Mean + 3 Sigma	161.09	161.62	321.24	353.94	212.006	255.839

		IP18_IFmode_LOx1_DetOff_RfOff (mAmps)		IPB1_IFmode_LOx1_DetOff_RfOff (mAmps)		IPBB_IFmode_LOx1_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	0.3913	0.3732	16.10	16.29	158.567	155.581
	13	0.4146	0.4263	16.10	16.05	157.547	157.155
	19	0.3844	0.4168	16.06	15.99	156.540	156.202
	23	0.3881	0.4210	16.20	16.17	157.749	157.364
	24	0.3881	0.4120	16.06	16.05	155.986	155.736
	Min	0.3844	0.4120	16.06	15.99	155.986	155.736
	Max	0.4146	0.4263	16.20	16.17	157.749	157.364
	Mean	0.3938	0.4190	16.11	16.07	156.955	156.614
	Std. Dev	0.0140	0.0061	0.07	0.08	0.835	0.774
	Mean - 3 Sigma	0.3518	0.4007	15.91	15.84	154.450	154.293
	Mean + 3 Sigma	0.4358	0.4373	16.30	16.30	159.461	158.935
Biased	5	0.4136	0.6796	16.12	16.08	156.013	156.202
	6	0.4008	0.4922	16.11	16.17	157.101	162.181
	7	0.4040	0.6578	16.13	16.15	156.614	156.668
	8	0.4024	0.7364	16.13	16.11	157.297	156.675
	9	0.4024	0.6408	16.09	16.04	157.533	18.846
	10	0.4247	1.6052	16.12	16.18	157.817	158.965
	11	0.4221	0.6313	16.15	16.16	156.864	156.675
	12	0.3690	0.7035	16.16	16.15	156.574	156.141
	Min	0.3690	0.4922	16.09	16.04	156.013	18.846
	Max	0.4247	1.6052	16.16	16.18	157.817	162.181
	Mean	0.4049	0.7684	16.13	16.13	156.977	140.294
	Std. Dev	0.0173	0.3458	0.02	0.05	0.582	49.115
	Mean - 3 Sigma	0.3531	-0.2690	16.06	15.99	155.232	-7.051
	Mean + 3 Sigma	0.4566	1.8057	16.19	16.27	158.722	287.640

		IPDT_IFmode_LOx1_DetOff_RfOff (mAmps)		IPL0_IFmode_LOx1_DetOff_RfOff (mAmps)		IPRF_IFmode_LOx1_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	1.17	1.18	284.02	285.04	148.86	149.49
	13	1.18	1.16	283.45	282.92	150.35	150.27
Unbiased	19	1.17	1.17	282.66	281.72	151.29	150.74
	23	1.20	1.20	284.34	283.76	150.79	150.50
	24	1.16	1.17	283.31	283.13	148.27	148.64
	Min	1.16	1.16	282.66	281.72	148.27	148.64
	Max	1.20	1.20	284.34	283.76	151.29	150.74
	Mean	1.18	1.17	283.44	282.88	150.18	150.04
	Std. Dev	0.0188	0.0170	0.69	0.85	1.33	0.95
	Mean - 3 Sigma	1.12	1.12	281.38	280.33	146.20	147.18
	Mean + 3 Sigma	1.23	1.23	285.51	285.44	154.15	152.90
	Biased	5	1.19	1.16	282.79	281.75	149.72
6		1.18	3.15	283.52	284.65	149.73	158.99
7		1.18	1.16	284.05	283.48	150.12	150.35
8		1.18	1.17	284.29	283.92	150.88	150.17
9		1.17	1.19	281.98	281.43	150.59	159.71
10		1.18	3.15	283.47	284.54	150.04	150.17
11		1.17	1.17	283.76	283.43	150.59	150.84
12		1.17	1.17	285.51	285.37	151.99	152.06
Min		1.17	1.16	281.98	281.43	149.72	149.36
Max		1.19	3.15	285.51	285.37	151.99	159.71
Mean		1.18	1.66	283.67	283.57	150.46	152.71
Std. Dev		0.0073	0.9161	1.04	1.38	0.75	4.18
Mean - 3 Sigma		1.16	-1.08	280.54	279.42	148.21	140.18
Mean + 3 Sigma		1.20	4.41	286.80	287.72	152.70	165.23

		VPBB+VPLO+VPBI_IFmode_LOx1_DetOff_RfOff (mAmps)		VPDT+VPRF_IFmode_LOx1_DetOff_RfOff (mAmps)		IP18_IFmode_LOx2_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	458.69	456.91	150.024	150.675	0.39	0.37
Unbiased	13	457.10	456.12	151.532	151.427	0.41	0.43
	19	455.26	453.91	152.459	151.908	0.40	0.40
	23	458.29	457.29	151.989	151.700	0.40	0.39
	24	455.36	454.92	149.430	149.808	0.38	0.41
	Min	455.26	453.91	149.43	149.81	0.38	0.39
	Max	458.29	457.29	152.46	151.91	0.41	0.43
	Mean	456.50	455.56	151.35	151.21	0.40	0.41
	Std. Dev	1.46	1.47	1.336	0.956	0.01	0.02
	Mean - 3 Sigma	452.13	451.17	147.344	148.343	0.36	0.35
	Mean + 3 Sigma	460.88	459.96	155.361	154.078	0.44	0.46
Biased	5	454.92	454.04	150.915	150.521	0.40	0.69
	6	456.73	463.00	150.912	162.136	0.40	0.49
	7	456.79	456.30	151.294	151.512	0.40	0.65
	8	457.72	456.70	152.052	151.337	0.40	0.76
	9	455.61	316.32	151.769	160.904	0.41	0.65
	10	457.41	459.68	151.229	153.321	0.39	1.58
	11	456.77	456.27	151.760	152.011	0.41	0.65
	12	458.25	457.66	153.162	153.226	0.38	0.70
	Min	454.92	316.32	1.51E+02	150.5213	0.38	0.49
	Max	458.25	463.00	1.53E+02	162.1362	0.41	1.58
	Mean	456.77	440.00	1.52E+02	154.3711	0.40	0.77
	Std. Dev	1.09	50.05	7.43E-01	4.5224	0.01	0.34
	Mean - 3 Sigma	453.51	289.86	1.49E+02	140.8038	0.37	-0.24
Mean + 3 Sigma	460.04	590.13	1.54E+02	167.9384	0.43	1.78	

		IPB1_IFmode_LOx2_DetOff_RfOff (mAmps)		IPBB_IFmode_LOx2_DetOff_RfOff (mAmps)		IPDT_IFmode_LOx2_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	16.14	16.31	159.621	156.337	1.19	1.21
	13	16.11	16.10	158.263	157.878	1.19	1.18
Unbiased	19	16.11	16.07	157.438	156.249	1.17	1.19
	23	16.26	16.22	159.080	158.236	1.19	1.21
	24	16.09	16.11	156.621	156.249	1.17	1.18
	Min	16.09	16.07	156.6210	156.2494	1.17	1.18
	Max	16.26	16.22	159.0802	158.2357	1.19	1.21
	Mean	16.14	16.12	157.8506	157.1531	1.18	1.19
	Std. Dev	0.0787	0.0655	1.0588	1.0536	0.0104	0.0135
	Mean - 3 Sigma	15.91	15.93	154.6741	153.9923	1.15	1.15
	Mean + 3 Sigma	16.38	16.32	161.0271	160.3138	1.21	1.23
	Biased	5	16.14	16.13	156.641	156.580	1.19
6		16.17	16.19	157.837	162.580	1.17	3.15
7		16.17	16.16	157.452	157.310	1.21	1.18
8		16.17	16.14	157.945	157.540	1.18	1.18
9		16.13	16.03	158.560	18.705	1.18	1.16
10		16.19	16.20	158.621	159.276	1.19	3.15
11		16.18	16.21	157.425	157.438	1.19	1.18
12		16.21	16.19	157.148	156.945	1.19	1.16
Min		16.13	16.03	156.6413	18.7046	1.17	1.16
Max		16.21	16.21	158.6208	162.5798	1.21	3.15
Mean		16.17	16.16	157.7037	140.7968	1.19	1.67
Std. Dev		0.0248	0.0588	0.6792	49.3708	0.0119	0.9130
Mean - 3 Sigma		16.10	15.98	155.6661	-7.3157	1.15	-1.07
Mean + 3 Sigma		16.24	16.33	159.7412	288.9094	1.22	4.41

		IPLO_IFmode_LOx2_DetOff_RfOff (mAmps)		IPRF_IFmode_LOx2_DetOff_RfOff (mAmps)		VPBB+VPLO+VPBI_IFmode_LOx2_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	338.13	337.36	149.05	149.37	513.89	510.01
Unbiased	13	336.49	335.78	150.24	150.74	510.86	509.75
	19	335.55	334.26	150.66	150.45	509.10	506.58
	23	337.87	337.10	150.71	150.88	513.21	511.56
	24	336.32	335.94	148.98	148.45	509.03	508.29
	Min	335.55	334.26	148.98	148.45	509.03	506.58
	Max	337.87	337.10	150.71	150.88	513.21	511.56
	Mean	336.56	335.77	150.15	150.13	510.55	509.05
	Std. Dev	0.97	1.17	0.80	1.14	1.97	2.12
	Mean - 3 Sigma	333.65	332.26	147.74	146.72	504.65	502.69
	Mean + 3 Sigma	339.46	339.27	152.56	153.54	516.45	515.40
Biased	5	336.21	335.34	149.96	149.36	508.99	508.05
	6	336.70	285.50	149.85	158.63	510.71	464.27
	7	337.22	336.77	150.40	150.20	510.83	510.24
	8	337.92	337.61	150.53	150.41	512.04	511.29
	9	335.74	282.06	150.45	159.83	510.43	316.80
	10	336.81	285.36	150.00	150.17	511.62	460.84
	11	336.94	337.44	150.92	150.61	510.55	511.09
	12	338.81	338.83	151.97	151.77	512.17	511.97
	Min	335.74	282.06	149.85	149.36	508.99	316.80
	Max	338.81	338.83	151.97	159.83	512.17	511.97
	Mean	337.04	317.37	150.51	152.62	510.92	474.32
	Std. Dev	0.96	27.41	0.69	4.15	1.03	67.25
	Mean - 3 Sigma	334.16	235.13	148.45	140.19	507.83	272.56
		Mean + 3 Sigma	339.93	399.60	152.57	165.06	514.01

		VPDT+VPRF_IFmode_LOx2_DetOff_RfOff (mAmps)		IP18_pwdn_IQmode_LOx1_DetOff_RfOff (mAmps)		IPB1_pwdn_IQmode_LOx1_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	150.243	150.578	0.364	0.338	0.255	0.255
Unbiased	13	151.431	151.925	0.354	0.407	0.266	0.271
	19	151.835	151.638	0.327	0.349	0.276	0.271
	23	151.901	152.092	0.349	0.354	0.282	0.271
	24	150.159	149.626	0.349	0.343	0.271	0.282
	Min	150.159	149.626	0.327	0.343	0.266	0.271
	Max	151.901	152.092	0.354	0.407	0.282	0.282
	Mean	151.332	151.321	0.345	0.363	0.274	0.274
	Std. Dev	0.8088	1.1450	0.0118	0.0295	0.0069	0.0053
	Mean - 3 Sigma	148.905	147.886	0.309	0.275	0.253	0.258
Mean + 3 Sigma	153.758	154.756	0.380	0.452	0.294	0.289	
Biased	5	151.148	150.558	0.370	0.651	0.276	0.292
	6	151.022	161.780	0.354	0.434	0.292	0.255
	7	151.610	151.377	0.354	0.609	0.287	0.260
	8	151.710	151.594	0.364	0.683	0.303	0.282
	9	151.632	160.995	0.338	0.609	0.308	0.282
	10	151.189	153.321	0.333	1.554	0.276	0.287
	11	152.105	151.786	0.343	0.609	0.303	0.282
	12	153.162	152.933	0.375	0.646	0.239	0.250
	Min	151.022	150.558	0.333	0.434	0.239	0.250
	Max	153.162	161.780	0.375	1.554	0.308	0.292
	Mean	151.697	154.293	0.354	0.724	0.286	0.274
	Std. Dev	0.6907	4.4689	0.0153	0.3435	0.0223	0.0161
	Mean - 3 Sigma	149.625	140.886	0.308	-0.306	0.218	0.225
	Mean + 3 Sigma	153.769	167.700	0.400	1.755	0.353	0.322

		IPBB_pwdn_IQmode_LOx1_DetOff_RfOff (mAmps)		IPDT_pwdn_IQmode_LOx1_DetOff_RfOff (mAmps)		IPL0_pwdn_IQmode_LOx1_DetOff_RfOff (mAmps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	3.335	3.787	0.195	0.184	4.654	4.855
Unbiased	13	3.618	3.598	0.221	0.200	4.788	4.989
	19	3.537	3.585	0.189	0.221	5.056	4.587
	23	3.605	3.564	0.179	0.226	4.855	5.257
	24	3.092	3.456	0.205	0.232	4.721	4.855
	Min	3.092	3.456	0.179	0.200	4.721	4.587
	Max	3.618	3.598	0.221	0.232	5.056	5.257
	Mean	3.463	3.551	0.199	0.220	4.855	4.922
	Std. Dev	0.2502	0.0646	0.0185	0.0139	0.1447	0.2788
	Mean - 3 Sigma	2.712	3.357	0.143	0.178	4.421	4.086
	Mean + 3 Sigma	4.214	3.745	0.254	0.262	5.289	5.759
Biased	5	3.646	3.781	0.173	0.210	4.855	5.056
	6	3.767	3.801	0.200	0.168	4.788	4.855
	7	3.686	3.463	0.184	0.216	4.721	4.989
	8	3.639	3.747	0.205	0.184	4.788	4.855
	9	3.774	3.841	0.216	0.210	4.721	4.654
	10	3.889	3.679	0.221	0.216	4.654	4.521
	11	3.652	3.673	0.210	0.200	4.788	4.855
	12	3.504	3.558	0.184	0.179	4.989	4.788
	Min	3.504	3.463	0.173	0.168	4.654	4.521
	Max	3.889	3.841	0.221	0.216	4.989	5.056
	Mean	3.695	3.693	0.199	0.198	4.788	4.822
	Std. Dev	0.1153	0.1287	0.0171	0.0186	0.1012	0.1717
	Mean - 3 Sigma	3.349	3.307	0.148	0.142	4.485	4.307
	Mean + 3 Sigma	4.040	4.079	0.251	0.254	5.092	5.337

		IPRF_pwdn_IQmode_LOx1_DetOff_RfOff (mAmps)		SCLK_High_Leakage (Amps)		SDIN_High_Leakage (Amps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	2.187	1.717	1.031E-04	1.069E-04	1.056E-04	1.071E-04
Unbiased	13	1.382	1.248	1.037E-04	1.065E-04	1.037E-04	1.063E-04
	19	1.717	2.254	1.063E-04	1.095E-04	1.065E-04	1.106E-04
	23	2.388	1.181	1.054E-04	1.089E-04	1.052E-04	1.086E-04
	24	2.187	1.181	1.063E-04	1.095E-04	1.054E-04	1.080E-04
	Min	1.382	1.181	1.037E-04	1.065E-04	1.037E-04	1.063E-04
	Max	2.388	2.254	1.063E-04	1.095E-04	1.065E-04	1.106E-04
	Mean	1.919	1.466	1.054E-04	1.086E-04	1.052E-04	1.084E-04
	Std. Dev	0.4550	0.5264	1.216E-06	1.430E-06	1.151E-06	1.776E-06
	Mean - 3 Sigma	0.554	-0.114	1.018E-04	1.043E-04	1.018E-04	1.031E-04
	Mean + 3 Sigma	3.284	3.045	1.091E-04	1.129E-04	1.087E-04	1.137E-04
Biased	5	2.187	1.717	1.063E-04	1.086E-04	1.071E-04	1.099E-04
	6	2.925	1.919	1.065E-04	1.074E-04	1.067E-04	1.082E-04
	7	1.986	1.919	1.069E-04	1.082E-04	1.050E-04	1.059E-04
	8	2.455	1.919	1.050E-04	1.071E-04	1.059E-04	1.078E-04
	9	2.053	1.650	1.059E-04	1.084E-04	1.063E-04	1.076E-04
	10	2.791	1.784	1.046E-04	1.054E-04	1.065E-04	1.076E-04
	11	1.852	1.583	1.046E-04	1.063E-04	1.054E-04	1.080E-04
	12	1.717	1.449	1.056E-04	1.065E-04	1.046E-04	1.069E-04
	Min	1.717	1.449	1.046E-04	1.054E-04	1.046E-04	1.059E-04
	Max	2.925	1.919	1.069E-04	1.086E-04	1.071E-04	1.099E-04
	Mean	2.246	1.743	1.057E-04	1.073E-04	1.059E-04	1.077E-04
	Std. Dev	0.4383	0.1754	8.931E-07	1.143E-06	8.894E-07	1.159E-06
	Mean - 3 Sigma	0.931	1.216	1.030E-04	1.038E-04	1.033E-04	1.043E-04
	Mean + 3 Sigma	3.561	2.269	1.083E-04	1.107E-04	1.086E-04	1.112E-04

		SDTO_High_Leakage (Amps)		SENB_High_Leakage (Amps)		SCLK_Low_Leakage (Amps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	1.048E-04	1.091E-04	5.369E-07	5.369E-07	5.369E-07	1.071E-07
Unbiased	13	1.024E-04	1.048E-04	5.369E-07	1.182E-06	-1.079E-07	-3.228E-07
	19	1.046E-04	1.080E-04	7.519E-07	9.668E-07	5.369E-07	-1.079E-07
	23	1.035E-04	1.069E-04	1.397E-06	1.182E-06	1.071E-07	-1.079E-07
	24	1.046E-04	1.063E-04	1.071E-07	9.668E-07	7.519E-07	7.519E-07
	Min	1.024E-04	1.048E-04	1.071E-07	9.668E-07	-1.079E-07	-3.228E-07
	Max	1.046E-04	1.080E-04	1.397E-06	1.182E-06	7.519E-07	7.519E-07
	Mean	1.038E-04	1.065E-04	6.981E-07	1.074E-06	3.220E-07	5.335E-08
	Std. Dev	1.029E-06	1.348E-06	5.373E-07	1.241E-07	3.924E-07	4.766E-07
	Mean - 3 Sigma	1.007E-04	1.025E-04	-9.138E-07	7.020E-07	-8.552E-07	-1.376E-06
	Mean + 3 Sigma	1.068E-04	1.105E-04	2.310E-06	1.447E-06	1.499E-06	1.483E-06
Biased	5	1.065E-04	1.071E-04	9.668E-07	3.220E-07	1.071E-07	9.668E-07
	6	1.050E-04	4.996E-04	9.668E-07	3.220E-07	3.220E-07	-3.228E-07
	7	1.052E-04	1.071E-04	9.668E-07	7.519E-07	1.071E-07	-5.377E-07
	8	1.037E-04	1.059E-04	3.220E-07	1.071E-07	-3.228E-07	9.668E-07
	9	1.046E-04	5.003E-04	5.369E-07	5.369E-07	1.071E-07	5.369E-07
	10	1.043E-04	1.069E-04	7.519E-07	1.182E-06	-1.079E-07	-3.228E-07
	11	1.041E-04	1.063E-04	1.182E-06	1.071E-07	3.220E-07	5.369E-07
	12	1.043E-04	1.059E-04	7.519E-07	5.369E-07	3.220E-07	5.369E-07
	Min	1.037E-04	1.059E-04	3.220E-07	1.071E-07	-3.228E-07	-5.377E-07
	Max	1.065E-04	5.003E-04	1.182E-06	1.182E-06	3.220E-07	9.668E-07
	Mean	1.047E-04	2.049E-04	7.250E-07	5.638E-07	1.071E-07	2.951E-07
	Std. Dev	8.578E-07	1.821E-04	3.133E-07	3.885E-07	2.298E-07	6.018E-07
	Mean - 3 Sigma	1.022E-04	-3.414E-04	-2.149E-07	-6.018E-07	-5.822E-07	-1.510E-06
	Mean + 3 Sigma	1.073E-04	7.512E-04	1.665E-06	1.729E-06	7.964E-07	2.101E-06

		SDIN_Low_Leakage (Amps)		SDTO_Low_Leakage (Amps)		SENB_Low_Leakage (Amps)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	-7.526E-07	-7.526E-07	-3.228E-07	-1.079E-07	-2.17E-04	-2.21E-04
Unbiased	13	1.071E-07	-1.079E-07	3.220E-07	7.519E-07	-2.21E-04	-2.18E-04
	19	5.369E-07	7.519E-07	7.519E-07	7.519E-07	-2.16E-04	-2.14E-04
	23	7.519E-07	9.668E-07	5.369E-07	7.519E-07	-2.20E-04	-2.18E-04
	24	3.220E-07	-1.079E-07	1.182E-06	1.071E-07	-2.22E-04	-2.20E-04
	Min	1.071E-07	-1.079E-07	3.220E-07	1.071E-07	-2.22E-04	-2.20E-04
	Max	7.519E-07	9.668E-07	1.182E-06	7.519E-07	-2.16E-04	-2.14E-04
	Mean	4.295E-07	3.757E-07	6.981E-07	5.907E-07	-2.20E-04	-2.18E-04
	Std. Dev	2.775E-07	5.653E-07	3.671E-07	3.224E-07	2.56E-06	2.61E-06
	Mean - 3 Sigma	-4.030E-07	-1.320E-06	-4.031E-07	-3.765E-07	-2.28E-04	-2.26E-04
	Mean + 3 Sigma	1.262E-06	2.072E-06	1.799E-06	1.558E-06	-2.12E-04	-2.10E-04
Biased	5	7.519E-07	7.519E-07	5.369E-07	5.369E-07	-2.19E-04	-2.05E-04
	6	9.668E-07	7.519E-07	1.612E-06	1.071E-07	-2.20E-04	-2.06E-04
	7	9.668E-07	5.369E-07	-1.079E-07	-1.079E-07	-2.21E-04	-2.05E-04
	8	1.071E-07	5.369E-07	5.369E-07	9.668E-07	-2.20E-04	-2.03E-04
	9	-1.079E-07	1.071E-07	7.519E-07	-7.526E-07	-2.20E-04	-2.05E-04
	10	1.397E-06	1.071E-07	9.668E-07	5.369E-07	-2.24E-04	-2.04E-04
	11	5.369E-07	-3.228E-07	-7.526E-07	1.612E-06	-2.21E-04	-2.04E-04
	12	-3.228E-07	7.519E-07	1.182E-06	-1.079E-07	-2.17E-04	-1.99E-04
	Min	-3.228E-07	-3.228E-07	-7.526E-07	-7.526E-07	-2.24E-04	-2.06E-04
	Max	1.397E-06	7.519E-07	1.612E-06	1.612E-06	-2.17E-04	-1.99E-04
	Mean	5.369E-07	4.026E-07	5.907E-07	3.489E-07	-2.20E-04	-2.04E-04
	Std. Dev	5.970E-07	3.969E-07	7.423E-07	7.306E-07	1.86E-06	2.21E-06
	Mean - 3 Sigma	-1.254E-06	-7.882E-07	-1.636E-06	-1.843E-06	-2.26E-04	-2.10E-04
	Mean + 3 Sigma	2.328E-06	1.593E-06	2.818E-06	2.541E-06	-2.15E-04	-1.97E-04

		IF_Gain_Low_6000MHz_LOx1_DetOn (dB)		LO_Feedthru_6800MHz_IFmode_LOx1_DetOn (dBm)		Pout_Low_RF_6000MHz_IFmode_LOx1_DetOn (dBm)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	12.411	11.286	-26.675	-27.448	-0.037	-1.104
Unbiased	13	12.398	12.244	-27.565	-29.074	-0.048	-0.115
	19	12.357	12.331	-28.461	-27.909	-0.115	-0.184
	23	12.262	12.218	-27.358	-27.314	-0.139	-0.190
	24	12.256	12.228	-27.720	-27.107	-0.148	-0.229
	Min	12.2559	12.2175	-28.4610	-29.0745	-0.1481	-0.2288
	Max	12.3978	12.3309	-27.3583	-27.1065	-0.0476	-0.1148
	Mean	12.3181	12.2549	-27.7761	-27.8509	-0.1123	-0.1793
	Std. Dev	0.0704	0.0518	0.4801	0.8837	0.0453	0.0474
	Mean - 3 Sigma	12.1068	12.0995	-29.2163	-30.5021	-0.2484	-0.3215
	Mean + 3 Sigma	12.5293	12.4103	-26.3359	-25.1998	0.0237	-0.0371
Biased	5	12.356	12.337	-26.498	-26.622	-0.067	-0.079
	6	12.368	9.785	-29.764	-26.363	-0.037	-2.571
	7	12.417	12.396	-27.702	-28.210	0.006	-0.092
	8	12.270	12.255	-28.161	-28.327	-0.072	-0.154
	9	12.292	10.073	-26.921	-24.780	-0.113	-2.326
	10	12.271	-29.288	-29.449	-34.445	-0.124	-41.667
	11	12.360	12.379	-32.722	-33.739	-0.053	-0.100
	12	12.432	12.495	-28.144	-27.313	0.075	0.040
	Min	12.2700	-29.2879	-32.7223	-34.4454	-0.1242	-41.6675
	Max	12.4324	12.4951	-26.4981	-24.7803	0.0749	0.0402
	Mean	12.3456	6.5539	-28.6701	-28.7249	-0.0482	-5.8687
	Std. Dev	0.0628	14.5247	1.9812	3.5018	0.0645	14.5048
	Mean - 3 Sigma	12.1572	-37.0200	-34.6136	-39.2304	-0.2416	-49.3830
	Mean + 3 Sigma	12.5340	50.1279	-22.7266	-18.2193	0.1452	37.6456

		IF_Gain_Mid_11760MHz_LOx1_DetOn (dB)		IF_Gain_High_20000MHz_LOx2_DetOn (dB)		Pout_High_RF_20000MHz_IFmode_LOx2_DetOn (dBm)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	13.855	12.332	13.780	12.431	1.686	0.341
Unbiased	13	13.908	13.687	13.845	13.641	1.743	1.570
	19	13.729	13.687	13.655	13.587	1.574	1.412
	23	13.539	13.441	13.582	13.472	1.527	1.351
	24	13.723	13.572	13.671	13.484	1.611	1.435
	Min	13.5388	13.4414	13.5819	13.4720	1.5275	1.3514
	Max	13.9079	13.6873	13.8447	13.6413	1.7430	1.5701
	Mean	13.7247	13.5969	13.6883	13.5462	1.6138	1.4422
	Std. Dev	0.1507	0.1170	0.1113	0.0819	0.0927	0.0923
	Mean - 3 Sigma	13.2725	13.2459	13.3544	13.3005	1.3358	1.1652
	Mean + 3 Sigma	14.1769	13.9479	14.0221	13.7919	1.8918	1.7191
Biased	5	13.840	13.825	13.735	13.651	1.632	1.524
	6	13.727	-12.107	13.729	-5.499	1.610	-17.570
	7	13.786	13.620	13.685	13.567	1.623	1.440
	8	13.673	13.674	13.673	13.465	1.535	1.349
	9	13.809	-9.841	13.744	-5.217	1.615	-17.329
	10	13.607	12.899	13.666	-42.771	1.581	-54.745
	11	13.721	13.555	13.781	13.551	1.637	1.486
	12	13.920	13.828	13.870	13.750	1.753	1.630
	Min	13.6072	-12.1068	13.6661	-42.7708	1.5346	-54.7448
	Max	13.9203	13.8280	13.8697	13.7500	1.7533	1.6296
	Mean	13.7605	7.4317	13.7353	1.8123	1.6233	-10.2770
	Std. Dev	0.0990	11.3799	0.0671	19.9462	0.0622	19.9003
	Mean - 3 Sigma	13.4634	-26.7082	13.5341	-58.0264	1.4368	-69.9778
	Mean + 3 Sigma	14.0576	41.5715	13.9366	61.6510	1.8098	49.4239

		LO_Feedthru_20000MHz_IFmode_LOx2_DetOn (dBm)		IF_Gain_Low_6000MHz_LOx1_VVA_Adjust@Vcc6:0 (dB)		IF_P1dB_Gain_Low_6000MHz_LOx1@Pwr:0 (dB)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	-33.522	-30.421	-10.534	-13.150	11.927	10.865
Unbiased	13	-28.653	-32.308	-10.440	-10.822	11.930	11.860
	19	-35.249	-32.804	-10.564	-10.662	11.883	11.820
	23	-34.246	-32.467	-10.707	-10.763	11.822	11.799
	24	-32.449	-35.642	-10.753	-10.614	11.834	11.774
	Min	-35.2490	-35.6425	-10.7528	-10.8220	11.8224	11.7741
	Max	-28.6528	-32.3077	-10.4398	-10.6139	11.9297	11.8599
	Mean	-32.6492	-33.3053	-10.6159	-10.7153	11.8673	11.8130
	Std. Dev	2.9052	1.5718	0.1422	0.0946	0.0492	0.0364
	Mean - 3 Sigma	-41.3646	-38.0208	-11.0425	-10.9991	11.7198	11.7039
	Mean + 3 Sigma	-23.9337	-28.5898	-10.1894	-10.4315	12.0148	11.9221
Biased	5	-34.526	-28.767	-10.483	-10.396	11.926	11.910
	6	-33.277	-24.270	-10.868	-13.013	11.945	9.333
	7	-29.548	-31.941	-10.220	-10.518	11.956	11.944
	8	-34.526	-30.202	-10.818	-10.659	11.922	11.905
	9	-34.086	-24.361	-10.312	-12.370	11.871	9.684
	10	-33.907	-33.127	-10.769	-44.609	11.865	-29.949
	11	-32.378	-31.815	-10.385	-10.477	11.939	11.941
	12	-33.365	-30.191	-10.411	-10.950	12.051	12.051
	Min	-34.5262	-33.1274	-10.8684	-44.6089	11.8653	-29.9486
	Max	-29.5477	-24.2704	-10.2200	-10.3958	12.0510	12.0506
	Mean	-33.2015	-29.3344	-10.5333	-15.3740	11.9344	6.1024
	Std. Dev	1.6410	3.3705	0.2495	11.8528	0.0577	14.6089
	Mean - 3 Sigma	-38.1245	-39.4460	-11.2817	-50.9324	11.7615	-37.7243
	Mean + 3 Sigma	-28.2784	-19.2229	-9.7848	20.1844	12.1074	49.9290

		IF_P1dB_Pout_Low_RF_6000MHz_LOx1_DetOn@Pwr:0 (dBm)		GainM1_IF (dB)		IF_P1dB_Gain_Mid_11750MHz_LOx1@Pwr:0 (dB)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	11.457	10.414	11.355	10.286	12.987	11.646
Unbiased	13	11.471	11.390	11.400	11.252	13.094	12.940
	19	11.415	11.341	11.286	11.229	12.994	12.927
	23	11.385	11.323	11.176	11.197	12.820	12.724
	24	11.389	11.299	11.210	11.155	12.914	12.791
	Min	11.3846	11.2992	11.1763	11.1553	12.8203	12.7240
	Max	11.4712	11.3900	11.4003	11.2516	13.0940	12.9404
	Mean	11.4150	11.3382	11.2681	11.2083	12.9556	12.8455
	Std. Dev	0.0399	0.0385	0.0994	0.0417	0.1163	0.1053
	Mean - 3 Sigma	11.2954	11.2227	10.9701	11.0831	12.6066	12.5295
	Mean + 3 Sigma	11.5346	11.4538	11.5662	11.3334	13.3046	13.1616
Biased	5	11.462	11.426	11.310	11.304	13.054	12.971
	6	11.486	8.865	11.307	8.764	13.006	-12.353
	7	11.506	11.453	11.383	11.353	13.034	12.919
	8	11.468	11.411	11.294	11.266	12.996	12.907
	9	11.427	9.181	11.284	9.058	12.988	-10.363
	10	11.418	-30.417	11.252	-30.605	12.946	12.310
	11	11.474	11.431	11.346	11.338	13.023	12.903
	12	11.608	11.565	11.408	11.475	13.152	13.080
	Min	11.4180	-30.4169	11.2520	-30.6049	12.9459	-12.3528
	Max	11.6079	11.5649	11.4083	11.4754	13.1524	13.0799
	Mean	11.4810	5.6143	11.3230	5.4943	13.0248	6.7967
	Std. Dev	0.0588	14.6006	0.0523	14.6281	0.0609	11.2203
	Mean - 3 Sigma	11.3045	-38.1875	11.1660	-38.3900	12.8420	-26.8642
	Mean + 3 Sigma	11.6574	49.4162	11.4799	49.3785	13.2075	40.4576

		IF_P1dB_Pout_Mid_RF_11750MHz_LOx1_DetOn@Pwr:0 (dBm)		IF_P1dB_Gain_High_20000MHz_LOx2@Pwr:0 (dB)		IF_P1dB_Pout_High_RF_20000MHz_LOx2_DetOn@Pwr:0 (dBm)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	12.703	11.387	13.262	12.058	13.324	12.138
Unbiased	13	12.813	12.660	13.168	13.022	13.245	13.091
	19	12.747	12.624	13.110	12.939	13.192	13.002
	23	12.598	12.458	13.153	12.959	13.221	13.031
	24	12.672	12.511	13.050	12.927	13.146	12.984
	Min	12.5981	12.4575	13.0497	12.9275	13.1461	12.9839
	Max	12.8132	12.6601	13.1682	13.0216	13.2448	13.0907
	Mean	12.7076	12.5632	13.1200	12.9619	13.2010	13.0271
	Std. Dev	0.0931	0.0948	0.0530	0.0419	0.0425	0.0467
	Mean - 3 Sigma	12.4283	12.2789	12.9609	12.8363	13.0734	12.8869
	Mean + 3 Sigma	12.9869	12.8475	13.2792	13.0875	13.3286	13.1672
Biased	5	12.771	12.657	13.168	13.073	13.220	13.128
	6	12.760	-12.603	13.137	-5.175	13.215	-5.119
	7	12.794	12.630	13.168	13.036	13.242	13.085
	8	12.741	12.602	13.124	12.961	13.198	13.015
	9	12.720	-10.642	13.195	-5.114	13.264	-5.049
	10	12.686	12.091	13.152	-28.860	13.222	-28.822
	11	12.752	12.647	13.204	13.060	13.274	13.110
	12	12.904	12.804	13.253	13.179	13.341	13.221
	Min	12.6856	-12.6032	13.1235	-28.8600	13.1978	-28.8224
	Max	12.9042	12.8041	13.2531	13.1791	13.3412	13.2207
	Mean	12.7658	6.5233	13.1751	3.2700	13.2472	3.3212
	Std. Dev	0.0648	11.2140	0.0414	15.3686	0.0459	15.3707
	Mean - 3 Sigma	12.5715	-27.1186	13.0508	-42.8358	13.1095	-42.7910
	Mean + 3 Sigma	12.9601	40.1653	13.2993	49.3758	13.3848	49.4333

		IF_P1dB_Pout_High_RF_20000MHz_LOx2_DetOn@Pwr:2 (dBm)		F1_Pout_RF_5p999GHz_LOx1 (dBm)		F1_Suppression_RF_5p999GHz_LOx1 (dB)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	8.235	7.507	-0.607	-1.614	52.598	54.305
Unbiased	13	8.105	8.072	-0.510	-0.587	52.453	52.433
	19	8.129	7.818	-0.673	-0.693	52.902	52.901
	23	8.301	7.868	-0.748	-0.778	53.079	52.577
	24	8.143	7.983	-0.639	-0.722	52.784	52.697
	Min	8.1046	7.8184	-0.7479	-0.7776	52.4532	52.4334
	Max	8.3013	8.0725	-0.5100	-0.5875	53.0791	52.9010
	Mean	8.1694	7.9354	-0.6424	-0.6949	52.8045	52.6522
	Std. Dev	0.0893	0.1146	0.0993	0.0798	0.2637	0.1978
	Mean - 3 Sigma	7.9015	7.5917	-0.9404	-0.9342	52.0133	52.0587
	Mean + 3 Sigma	8.4374	8.2792	-0.3444	-0.4555	53.5957	53.2456
Biased	5	8.146	7.979	-0.555	-0.606	52.755	52.417
	6	8.243	-10.404	-0.580	-3.632	52.903	57.729
	7	8.171	7.723	-0.547	-0.639	52.863	52.648
	8	8.042	7.549	-0.608	-0.687	53.105	52.859
	9	8.253	-9.884	-0.638	-3.206	53.108	59.028
	10	8.223	-29.581	-0.638	-40.822	52.826	36.231
	11	8.155	7.927	-0.606	-0.638	53.145	52.838
	12	8.325	8.256	-0.433	-0.477	52.581	52.704
	Min	8.0418	-29.5810	-0.6384	-40.8220	52.5807	36.2314
	Max	8.3254	8.2558	-0.4332	-0.4768	53.1452	59.0276
	Mean	8.1948	-1.3043	-0.5757	-6.3382	52.9106	52.0568
	Std. Dev	0.0858	14.0339	0.0669	13.9918	0.1979	6.9010
	Mean - 3 Sigma	7.9374	-43.4062	-0.7764	-48.3137	52.3168	31.3539
	Mean + 3 Sigma	8.4522	40.7975	-0.3750	35.6373	53.5044	72.7596

		F2_Pout_RF_6GHz_LOx1 (dBm)		F2_Suppression_RF_6GHz_LOx1 (dB)		IQ_Gain_Low_6701MHz_LOx1_DetOff (dB)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	-0.432	-1.424	52.922	54.622	18.184	17.409
Unbiased	13	-0.327	-0.406	52.775	52.606	18.181	18.096
	19	-0.485	-0.510	53.064	52.937	18.106	18.029
	23	-0.554	-0.574	53.146	52.935	18.157	18.070
	24	-0.468	-0.527	52.958	52.822	18.191	18.093
	Min	-0.5538	-0.5736	52.7746	52.6059	18.1064	18.0290
	Max	-0.3272	-0.4055	53.1461	52.9372	18.1910	18.0962
	Mean	-0.4584	-0.5039	52.9855	52.8251	18.1588	18.0720
	Std. Dev	0.0951	0.0709	0.1604	0.1558	0.0378	0.0310
	Mean - 3 Sigma	-0.7437	-0.7167	52.5044	52.3578	18.0455	17.9790
	Mean + 3 Sigma	-0.1732	-0.2910	53.4666	53.2925	18.2720	18.1649
Biased	5	-0.393	-0.421	52.881	52.686	18.248	18.171
	6	-0.406	-3.430	52.909	57.730	18.218	11.622
	7	-0.389	-0.443	52.937	52.875	18.253	18.157
	8	-0.422	-0.493	53.151	53.159	18.188	18.083
	9	-0.457	-3.011	53.265	58.636	18.195	12.084
	10	-0.451	-40.005	52.852	40.572	18.160	-16.138
	11	-0.414	-0.456	53.407	53.063	18.207	18.132
	12	-0.251	-0.305	53.072	52.711	18.326	18.235
	Min	-0.4574	-40.0049	52.8520	40.5721	18.1600	-16.1375
	Max	-0.2507	-0.3052	53.4067	58.6363	18.3263	18.2353
	Mean	-0.3980	-6.0704	53.0593	52.6790	18.2245	12.2934
	Std. Dev	0.0645	13.7702	0.2014	5.4510	0.0513	11.8361
	Mean - 3 Sigma	-0.5915	-47.3811	52.4551	36.3259	18.0706	-23.2150
	Mean + 3 Sigma	-0.2045	35.2403	53.6635	69.0321	18.3785	47.8018

		LO_Feedthru_IQ_LOfreq_6700MHz_BBfreq1MHz (dBm)		IQ_Gain_Mid_10001MHz_LOx1_DetOff (dB)		LO_Feedthru_IQ_LOfreq_10000MHz_BBfreq1MHz (dBm)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	-26.267	-29.267	17.959	16.961	-21.571	-23.159
Unbiased	13	-25.740	-26.200	17.968	17.858	-21.995	-22.463
	19	-26.371	-26.898	17.939	17.824	-22.331	-22.996
	23	-26.131	-26.501	17.894	17.772	-21.974	-22.497
	24	-25.457	-25.484	17.969	17.836	-21.939	-22.120
	Min	-26.3711	-26.8975	17.8938	17.7723	-22.3311	-22.9961
	Max	-25.4572	-25.4843	17.9693	17.8581	-21.9386	-22.1196
	Mean	-25.9249	-26.2708	17.9427	17.8227	-22.0598	-22.5189
	Std. Dev	0.4060	0.5971	0.0354	0.0364	0.1824	0.3609
	Mean - 3 Sigma	-27.1428	-28.0621	17.8365	17.7133	-22.6069	-23.6017
	Mean + 3 Sigma	-24.7069	-24.4795	18.0488	17.9320	-21.5126	-21.4361
Biased	5	-25.926	-26.071	18.039	17.927	-22.043	-22.595
	6	-27.081	-24.329	18.023	13.035	-22.537	-22.971
	7	-26.467	-26.989	18.042	17.875	-22.571	-23.301
	8	-26.641	-27.089	17.949	17.792	-22.488	-23.364
	9	-26.256	-22.405	17.978	13.187	-22.060	-21.387
	10	-26.301	-28.783	17.936	-16.095	-22.815	-24.420
	11	-26.885	-27.179	17.977	17.861	-22.556	-22.994
	12	-26.324	-25.585	18.097	17.990	-22.087	-21.962
	Min	-27.0809	-28.7830	17.9360	-16.0949	-22.8154	-24.4199
	Max	-25.9262	-22.4048	18.0970	17.9901	-22.0426	-21.3867
	Mean	-26.4851	-26.0536	18.0051	12.4466	-22.3945	-22.8741
	Std. Dev	0.3713	1.9702	0.0544	11.7330	0.2911	0.9226
	Mean - 3 Sigma	-27.5988	-31.9642	17.8418	-22.7523	-23.2678	-25.6418
	Mean + 3 Sigma	-25.3713	-20.1431	18.1684	47.6455	-21.5213	-20.1064

		IQ_Gain_High_20001MHz_LOx2_DetOff (dB)		LO_Feedthru_IQ_LOfreq_20000MHz_BBfreq1MHz (dBm)		IQ_Gain_Highest_23501MHz_LOx2_DetOff (dB)	
	SN	PRE	Post	PRE	Post	PRE	Post
CTRL	1	17.068	16.135	-23.176	-23.926	10.534	9.763
Unbiased	13	17.177	17.013	-22.850	-23.367	10.636	10.509
	19	17.053	16.896	-22.194	-23.256	10.285	9.898
	23	17.046	16.851	-21.986	-22.666	10.994	10.412
	24	17.135	16.952	-22.010	-22.415	10.676	10.403
	Min	17.0461	16.8511	-22.8499	-23.3672	10.2850	9.8976
	Max	17.1775	17.0127	-21.9863	-22.4147	10.9941	10.5092
	Mean	17.1029	16.9279	-22.2603	-22.9258	10.6479	10.3054
	Std. Dev	0.0641	0.0700	0.4039	0.4592	0.2901	0.2761
	Mean - 3 Sigma	16.9107	16.7178	-23.4720	-24.3033	9.7776	9.4770
	Mean + 3 Sigma	17.2952	17.1380	-21.0486	-21.5483	11.5182	11.1338
Biased	5	17.148	17.003	-23.158	-23.992	10.713	10.381
	6	17.081	-3.126	-23.617	-32.500	10.179	-11.580
	7	17.121	16.890	-22.831	-23.652	10.656	10.012
	8	17.044	16.809	-22.595	-23.717	10.315	9.666
	9	17.137	-2.178	-22.940	-31.535	10.580	-10.411
	10	17.115	-29.800	-23.129	-34.617	10.746	-34.563
	11	17.120	16.933	-23.024	-23.654	10.564	10.237
	12	17.215	17.068	-22.612	-22.617	10.928	10.730
	Min	17.0436	-29.8005	-23.6171	-34.6169	10.1791	-34.5633
	Max	17.2145	17.0680	-22.5952	-22.6167	10.9282	10.7295
	Mean	17.1225	6.1998	-22.9882	-27.0355	10.5853	-0.6910
	Std. Dev	0.0498	17.0296	0.3314	4.9318	0.2400	16.7104
	Mean - 3 Sigma	16.9731	-44.8890	-23.9825	-41.8309	9.8653	-50.8221
	Mean + 3 Sigma	17.2719	57.2886	-21.9940	-12.2400	11.3053	49.4401

		LO_Feethru_IQ_LOfreq_23500MHz_BBfreq1MHz (dBm)		IQ_OIP3L_IQ_RF_6p002GHz_LOx1 (dBm)	
		SN	PRE	Post	
CTRL	1	-24.275	-25.253	26.558	26.154
Unbiased	13	-23.044	-23.599	26.350	26.291
	19	-24.256	-25.087	26.619	26.503
	23	-22.097	-22.671	26.427	26.373
	24	-22.341	-23.037	26.379	26.224
	Min	-24.2564	-25.0874	26.3503	26.2242
	Max	-22.0966	-22.6714	26.6189	26.5033
	Mean	-22.9346	-23.5986	26.4439	26.3479
	Std. Dev	0.9684	1.0633	0.1209	0.1202
	Mean - 3 Sigma	-25.8398	-26.7884	26.0813	25.9874
	Mean + 3 Sigma	-20.0294	-20.4088	26.8065	26.7084
Biased	5	-23.163	-23.661	26.426	26.270
	6	-26.290	-35.198	26.601	15.427
	7	-22.752	-23.571	26.412	26.456
	8	-23.633	-24.842	26.714	26.583
	9	-23.498	-36.027	26.801	16.239
	10	-22.686	-34.136	26.477	-27.232
	11	-22.965	-23.601	26.671	26.633
	12	-22.315	-22.615	26.525	26.372
	Min	-26.2897	-36.0270	26.4118	-27.2316
	Max	-22.3154	-22.6152	26.8011	26.6331
	Mean	-23.4128	-27.9563	26.5784	17.0936
	Std. Dev	1.2401	5.9838	0.1420	18.5443
	Mean - 3 Sigma	-27.1330	-45.9076	26.1525	-38.5394
	Mean + 3 Sigma	-19.6926	-10.0050	27.0044	72.7265









































