

DISPLACEMENT DAMAGE TEST REPORT ADA4084-2S

November 2024

Radiation Test Report

Product:	ADA4084-2S
Die:	2545Z
Fluence:	2e12 n/cm ²
Test Method:	MIL-STD-883 TM1017
Facilities:	UMass Lowell
Tested:	November 19 2024

The RADTEST® DATA SERVICE is a compilation of radiation test results on Analog Devices' Space grade products. It is designed to assist customers in selecting the right product for applications where radiation is a consideration. Many products manufactured by Analog Devices, Inc. have been shown to be radiation tolerant to most tactical radiation environments. Analog Devices, Inc. does not make any claim to maintain or guarantee these levels of radiation tolerance without lot qualification test.

It is the responsibility of the Procuring Activity to screen products from Analog Devices, Inc. for compliance to Nuclear Hardness Critical Items (HCI) specifications.

Warning:

Analog Devices, Inc. does not recommend use of this data to qualify other product grades or process levels. Analog Devices, Inc. is not responsible and has no liability for any consequences, and all applicable Warranties are null and void if any Analog Devices product is modified in any way or used outside of normal environmental and operating conditions, including the parameters specified in the corresponding data sheet. Analog Devices, Inc. does not guarantee that wafer manufacturing is the same for all process levels.

		+Isy Vs+-15 Vcm0 Dual Amp		-Isy Vs+-15 Vcm0 Dual Amp		VOH A.Vs+-15 Vcm0 R10k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	1284.765	1296.611	-1283.679	-1296.303	14.898	14.898	
	66	1299.359	1294.087	-1298.778	-1293.743	14.898	14.896	
1.00E+12	67	1293.603	1290.970	-1292.908	-1290.683	14.899	14.896	
	68	1285.048	1285.267	-1284.275	-1285.156	14.897	14.896	
	69	1294.295	1294.523	-1293.630	-1294.055	14.899	14.897	
	70	1293.163	1290.970	-1292.657	-1290.808	14.898	14.896	
	72	1288.885	1288.134	-1288.199	-1287.748	14.897	14.895	
	73	1288.162	1288.103	-1287.163	-1287.280	14.898	14.896	
	115	1285.897	1286.763	-1285.343	-1286.718	14.897	14.895	
	116	1295.710	1294.492	-1294.949	-1294.118	14.899	14.897	
	117	1286.212	1284.737	-1285.406	-1284.469	14.897	14.895	
	Min	1285.0481	1284.7372	-1298.7784	-1294.1178	14.8969	14.8949	
	Max	1299.3589	1294.5229	-1284.2753	-1284.4695	14.8988	14.8971	
	Mean	1291.0335	1289.8046	-1290.3309	-1289.4779	14.8978	14.8959	
	Std. Dev	4.8451	3.7490	4.8991	3.6983	0.0007	0.0007	
	Mean - 3 Sigma	1276.4982	1278.5577	-1305.0282	-1300.5728	14.8958	14.8939	
	Mean + 3 Sigma	1305.5688	1301.0514	-1275.6336	-1278.3830	14.8999	14.8980	
2.00E+12	118	1291.999	1281.340	-1291.778	-1281.285	14.897	14.893	
	119	1284.482	1272.801	-1284.370	-1272.198	14.898	14.895	
	120	1294.075	1282.431	-1292.908	-1282.159	14.900	14.896	
	121	1283.570	1273.362	-1282.863	-1272.761	14.897	14.893	
	122	1285.142	1274.858	-1284.526	-1274.634	14.897	14.893	
	123	1285.740	1276.291	-1285.217	-1275.945	14.898	14.895	
	124	1287.470	1274.702	-1286.787	-1274.696	14.898	14.894	
	125	1287.250	1276.821	-1286.724	-1276.414	14.899	14.895	
	126	1285.142	1274.640	-1284.840	-1274.322	14.897	14.894	
	127	1300.145	1289.318	-1299.344	-1289.590	14.900	14.896	
	Min	1283.5698	1272.8009	-1299.3435	-1289.5902	14.8968	14.8932	
	Max	1300.1453	1289.3184	-1282.8628	-1272.1985	14.9002	14.8963	
	Mean	1288.5016	1277.6564	-1287.9357	-1277.4005	14.8982	14.8944	
	Std. Dev	5.2933	5.1920	5.1582	5.4000	0.0011	0.0011	
	Mean - 3 Sigma	1272.6216	1262.0805	-1303.4102	-1293.6006	14.8947	14.8911	
Mean + 3 Sigma	1304.3816	1293.2323	-1272.4612	-1261.2003	14.9016	14.8978		

		VOH B.Vs+-15 Vcm0 R10k		VOL A.Vs+-15 Vcm0 R10k		VOL B.Vs+-15 Vcm0 R10k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	14.897	14.898	-14.969	-14.969	-14.967	-14.967	
	66	14.897	14.895	-14.969	-14.963	-14.968	-14.962	
1.00E+12	67	14.899	14.897	-14.969	-14.963	-14.968	-14.962	
	68	14.897	14.896	-14.969	-14.963	-14.967	-14.962	
	69	14.897	14.895	-14.969	-14.964	-14.968	-14.961	
	70	14.897	14.895	-14.969	-14.963	-14.967	-14.962	
	72	14.898	14.895	-14.971	-14.964	-14.971	-14.964	
	73	14.898	14.896	-14.969	-14.963	-14.967	-14.961	
	115	14.898	14.896	-14.969	-14.963	-14.967	-14.961	
	116	14.898	14.896	-14.970	-14.964	-14.969	-14.963	
	117	14.899	14.897	-14.969	-14.963	-14.967	-14.962	
	Min	14.8967	14.8946	-14.9706	-14.9644	-14.9710	-14.9637	
	Max	14.8992	14.8970	-14.9686	-14.9625	-14.9668	-14.9613	
	Mean	14.8979	14.8958	-14.9691	-14.9635	-14.9680	-14.9621	
	Std. Dev	0.0008	0.0008	0.0006	0.0005	0.0013	0.0008	
	Mean - 3 Sigma	14.8956	14.8934	-14.9710	-14.9650	-14.9719	-14.9646	
	Mean + 3 Sigma	14.9001	14.8982	-14.9672	-14.9620	-14.9641	-14.9597	
2.00E+12	118	14.899	14.895	-14.969	-14.959	-14.968	-14.958	
	119	14.899	14.895	-14.972	-14.960	-14.973	-14.959	
	120	14.898	14.894	-14.969	-14.959	-14.968	-14.957	
	121	14.896	14.894	-14.969	-14.959	-14.965	-14.957	
	122	14.897	14.893	-14.969	-14.959	-14.967	-14.957	
	123	14.897	14.891	-14.968	-14.959	-14.967	-14.956	
	124	14.897	14.893	-14.974	-14.960	-14.970	-14.958	
	125	14.897	14.893	-14.969	-14.959	-14.968	-14.957	
	126	14.897	14.894	-14.969	-14.959	-14.967	-14.957	
	127	14.896	14.894	-14.974	-14.961	-14.971	-14.960	
	Min	14.8957	14.8913	-14.9739	-14.9608	-14.9727	-14.9597	
	Max	14.8987	14.8949	-14.9685	-14.9588	-14.9648	-14.9556	
	Mean	14.8973	14.8936	-14.9702	-14.9594	-14.9683	-14.9575	
	Std. Dev	0.0010	0.0010	0.0021	0.0008	0.0024	0.0012	
	Mean - 3 Sigma	14.8943	14.8907	-14.9766	-14.9617	-14.9755	-14.9612	
Mean + 3 Sigma	14.9002	14.8965	-14.9638	-14.9571	-14.9612	-14.9539		

		VOH A.Vs+15 Vcm0 R2k		VOH B.Vs+15 Vcm0 R2k		VOL A.Vs+15 Vcm0 R2k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	14.663	14.665	14.660	14.664	-14.890	-14.890	
	66	14.662	14.656	14.659	14.651	-14.888	-14.878	
	67	14.667	14.657	14.670	14.662	-14.888	-14.873	
	68	14.660	14.654	14.661	14.655	-14.888	-14.877	
	69	14.665	14.659	14.659	14.649	-14.890	-14.879	
	70	14.663	14.657	14.655	14.651	-14.889	-14.878	
	72	14.656	14.648	14.660	14.651	-14.892	-14.879	
	73	14.661	14.654	14.662	14.653	-14.889	-14.877	
	115	14.659	14.652	14.665	14.657	-14.890	-14.878	
	116	14.667	14.662	14.663	14.658	-14.891	-14.879	
	117	14.659	14.653	14.666	14.661	-14.890	-14.878	
	Min	14.6557	14.6482	14.6554	14.6488	-14.8924	-14.8795	
	Max	14.6674	14.6619	14.6697	14.6618	-14.8880	-14.8728	
	Mean	14.6619	14.6552	14.6622	14.6548	-14.8895	-14.8777	
	Std. Dev	0.0038	0.0038	0.0041	0.0046	0.0014	0.0018	
Mean - 3 Sigma	14.6505	14.6436	14.6498	14.6411	-14.8937	-14.8832		
Mean + 3 Sigma	14.6733	14.6667	14.6746	14.6686	-14.8853	-14.8721		
1.00E+12	118	14.657	14.642	14.666	14.652	-14.889	-14.869	
	119	14.663	14.649	14.666	14.649	-14.895	-14.871	
	120	14.674	14.659	14.664	14.644	-14.891	-14.869	
	121	14.659	14.642	14.652	14.648	-14.890	-14.869	
	122	14.657	14.640	14.656	14.642	-14.891	-14.869	
	123	14.663	14.650	14.656	14.632	-14.888	-14.869	
	124	14.663	14.646	14.656	14.642	-14.900	-14.870	
	125	14.667	14.653	14.660	14.644	-14.889	-14.869	
	126	14.659	14.643	14.658	14.643	-14.889	-14.869	
	127	14.672	14.657	14.654	14.646	-14.900	-14.872	
	Min	14.6566	14.6401	14.6525	14.6315	-14.9002	-14.8716	
	Max	14.6740	14.6590	14.6664	14.6520	-14.8878	-14.8686	
	Mean	14.6634	14.6480	14.6589	14.6441	-14.8921	-14.8695	
	Std. Dev	0.0059	0.0066	0.0049	0.0055	0.0046	0.0011	
	Mean - 3 Sigma	14.6456	14.6282	14.6441	14.6275	-14.9060	-14.8727	
Mean + 3 Sigma	14.6812	14.6677	14.6737	14.6607	-14.8783	-14.8663		

		VOL B.Vs+15 Vcm0 R2k		Vos A.Vs+15 Vcm0		Vos B.Vs+15 Vcm0		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-14.883	-14.884	-36.213	-35.104	-63.253	-61.337	
	66	-14.885	-14.873	-67.763	-55.483	-58.559	-65.536	
	67	-14.886	-14.873	-52.396	-53.867	-8.575	-16.220	
	68	-14.881	-14.871	-47.401	-53.847	-29.020	-26.947	
	69	-14.884	-14.869	-30.963	-35.127	-27.732	-45.245	
	70	-14.883	-14.873	-59.146	-69.989	-55.172	-41.701	
	72	-14.891	-14.874	-61.563	-56.599	-17.436	-16.190	
	73	-14.884	-14.870	-30.241	-29.469	-53.742	-52.612	
	115	-14.882	-14.869	-39.679	-38.744	-47.659	-60.834	
	116	-14.887	-14.874	-11.708	7.056	-56.300	-58.694	
	117	-14.883	-14.873	-37.926	-25.882	-51.892	-39.222	
	Min	-14.8911	-14.8742	-67.7631	-69.9889	-58.5591	-65.5365	
	Max	-14.8812	-14.8689	-11.7079	7.0560	-8.5752	-16.1895	
	Mean	-14.8846	-14.8717	-43.8787	-41.1951	-40.6088	-42.3202	
	Std. Dev	0.0028	0.0019	17.1337	21.9448	18.2369	17.8721	
Mean - 3 Sigma	-14.8931	-14.8776	-95.2798	-107.0296	-95.3196	-95.9364		
Mean + 3 Sigma	-14.8761	-14.8659	7.5224	24.6394	14.1021	11.2960		
1.00E+12	118	-14.884	-14.864	-41.307	-59.455	-53.857	-30.517	
	119	-14.896	-14.865	-42.548	-48.081	-50.267	-33.052	
	120	-14.885	-14.859	-30.577	-23.677	-29.830	-13.482	
	121	-14.871	-14.860	-52.194	-51.498	-74.315	-72.188	
	122	-14.881	-14.861	-50.140	-41.750	-6.451	6.703	
	123	-14.885	-14.855	-23.324	-43.604	-55.679	-38.140	
	124	-14.887	-14.863	-55.601	-51.023	-32.664	-28.506	
	125	-14.885	-14.863	-34.840	-8.825	-35.463	-28.973	
	126	-14.882	-14.862	-63.084	-52.374	-38.340	-36.095	
	127	-14.889	-14.867	-56.349	-64.888	-54.870	-62.884	
	Min	-14.8955	-14.8673	-63.0838	-64.8880	-74.3148	-72.1880	
	Max	-14.8713	-14.8547	-23.3238	-8.8253	-6.4513	6.7031	
	Mean	-14.8845	-14.8619	-44.9962	-44.5175	-43.1735	-33.7134	
	Std. Dev	0.0062	0.0034	12.6804	16.7343	18.7002	22.2599	
	Mean - 3 Sigma	-14.9030	-14.8721	-83.0375	-94.7203	-99.2740	-100.4930	
Mean + 3 Sigma	-14.8660	-14.8517	-6.9550	5.6854	12.9270	33.0661		

	SN	Vos Ch Delta.Vs+15 Vcm0		+Ib A.Vs+15 Vcm0		+Ib B.Vs+15 Vcm0	
		PRE	Post	PRE	Post	PRE	Post
CTRL	131	-27.040	-26.233	-89.685	-89.133	-90.544	-89.230
1.00E+12	66	9.204	-10.054	-91.370	-107.181	-91.938	-108.894
	67	43.821	37.648	-93.266	-106.123	-92.023	-104.765
	68	18.381	26.900	-91.089	-102.832	-89.829	-103.609
	69	3.231	-10.119	-91.779	-107.110	-92.367	-102.363
	70	3.974	28.288	-91.101	-106.188	-90.787	-106.979
	72	44.127	40.410	-90.821	-97.551	-89.429	-98.820
	73	-23.501	-23.143	-91.576	-114.185	-91.537	-111.996
	115	-7.980	-22.090	-91.011	-97.917	-91.399	-103.540
	116	-44.592	-65.750	-91.881	-97.506	-92.118	-102.246
	117	-13.966	0.000	-90.335	-102.901	-90.330	-108.300
	Min	-44.5924	-65.7501	-93.2661	-114.1848	-92.3666	-111.9957
	Max	44.1271	40.4097	-90.3352	-97.5063	-89.4287	-98.8202
	Mean	3.2699	0.2089	-91.4230	-103.9494	-91.1756	-105.1512
	Std. Dev	27.9064	33.5390	0.7952	5.3347	1.0285	3.8806
	Mean - 3 Sigma	-80.4492	-100.4079	-93.8086	-119.9536	-94.2611	-116.7929
Mean + 3 Sigma	86.9890	100.8258	-89.0375	-87.9453	-88.0901	-93.5094	
2.00E+12	118	-12.549	28.938	-90.787	-117.505	-92.224	-110.551
	119	-7.719	15.028	-92.733	-131.558	-92.111	-102.312
	120	0.747	10.195	-91.492	-126.593	-92.785	-123.525
	121	-22.121	-20.690	-88.381	-117.453	-90.179	-116.915
	122	43.688	48.453	-92.694	-109.104	-91.253	-119.262
	123	-32.355	5.464	-89.320	-110.898	-89.916	-106.669
	124	22.937	22.517	-89.344	-122.285	-90.804	-112.619
	125	-0.623	-20.147	-90.109	-112.571	-91.798	-106.128
	126	24.744	16.278	-89.747	-121.081	-90.286	-106.299
	127	1.479	0.000	-90.993	-106.851	-91.702	-111.488
	Min	-32.3552	-20.6897	-92.7328	-131.5578	-92.7848	-123.5254
	Max	43.6883	48.4533	-88.3814	-106.8514	-89.9156	-102.3116
	Mean	1.8228	10.6036	-90.5599	-117.5899	-91.3058	-111.5769
	Std. Dev	23.0223	21.1512	1.4533	7.9421	0.9761	6.6662
	Mean - 3 Sigma	-67.2440	-52.8500	-94.9198	-141.4162	-94.2342	-131.5755
Mean + 3 Sigma	70.8895	74.0571	-86.2000	-93.7636	-88.3774	-91.5783	

	SN	-Ib A.Vs+15 Vcm0		-Ib B.Vs+15 Vcm0		Ios A.Vs+15 Vcm0	
		PRE	Post	PRE	Post	PRE	Post
CTRL	131	-88.345	-87.437	-87.122	-86.410	-1.341	-1.696
1.00E+12	66	-90.078	-103.208	-89.412	-106.911	-1.292	-3.973
	67	-91.836	-113.493	-92.224	-95.799	-1.430	7.371
	68	-90.101	-99.483	-88.455	-98.997	-0.988	-3.349
	69	-91.830	-103.154	-89.931	-107.755	0.051	-3.956
	70	-89.991	-105.570	-89.796	-96.458	-1.110	-0.619
	72	-89.758	-101.225	-87.474	-96.098	-1.063	3.674
	73	-91.616	-102.699	-89.934	-106.917	0.040	-11.486
	115	-88.986	-102.411	-88.047	-98.497	-2.025	4.495
	116	-91.041	-102.316	-87.577	-101.951	-0.841	4.810
	117	-90.189	-101.703	-86.090	-104.946	-0.146	-1.198
	Min	-91.8358	-113.4934	-92.2241	-107.7552	-2.0247	-11.4862
	Max	-88.9859	-99.4826	-86.0901	-95.7989	0.0509	7.3706
	Mean	-90.5427	-103.5262	-88.8941	-101.4331	-0.8804	-0.4233
	Std. Dev	0.9780	3.8315	1.7272	4.8554	0.6778	5.6350
	Mean - 3 Sigma	-93.4767	-115.0206	-94.0757	-115.9991	-2.9137	-17.3283
Mean + 3 Sigma	-87.6086	-92.0317	-83.7125	-86.8670	1.1529	16.4818	
2.00E+12	118	-91.506	-112.668	-90.806	-113.309	0.718	-4.837
	119	-91.808	-119.646	-88.481	-104.017	-0.925	-11.912
	120	-91.513	-110.652	-89.992	-130.521	0.021	-15.941
	121	-88.091	-117.914	-85.800	-123.498	-0.290	0.462
	122	-93.062	-114.045	-88.149	-114.723	0.368	4.941
	123	-87.844	-122.055	-85.960	-112.987	-1.476	11.157
	124	-88.281	-109.349	-88.275	-122.436	-1.064	-12.936
	125	-90.361	-117.121	-88.534	-108.671	0.253	4.550
	126	-88.560	-121.677	-87.271	-115.390	-1.187	0.596
	127	-90.079	-115.965	-90.072	-121.961	-0.914	9.113
	Min	-93.0620	-122.0554	-90.8056	-130.5207	-1.4756	-15.9408
	Max	-87.8441	-109.3490	-85.8004	-104.0173	0.7183	11.1569
	Mean	-90.1104	-116.1093	-88.3339	-116.7514	-0.4495	-1.4806
	Std. Dev	1.8420	4.4065	1.6721	7.8457	0.7592	9.5337
	Mean - 3 Sigma	-95.6364	-129.3288	-93.3501	-140.2884	-2.7271	-30.0818
Mean + 3 Sigma	-84.5845	-102.8897	-83.3178	-93.2143	1.8282	27.1206	

		los B.Vs+-15 Vcm0		CMRR A.Vs+-15 Vcm+-14 V		CMRR B.Vs+-15 Vcm+-14 V		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-3.422	-2.820	128.149	128.067	126.769	126.670	
	66	-2.526	-1.983	139.367	139.515	127.155	127.497	
	67	0.201	-8.966	133.009	134.442	125.870	125.380	
	68	-1.373	-4.612	138.757	138.410	125.113	124.289	
	69	-2.436	5.392	147.943	139.037	124.644	124.246	
	70	-0.991	-10.521	129.847	133.584	130.470	131.145	
	72	-1.955	-2.722	134.676	138.853	124.666	123.838	
	73	-1.603	-5.078	130.723	128.560	124.782	124.323	
	115	-3.352	-5.043	137.951	139.697	133.837	132.966	
	116	-4.541	-0.294	136.491	138.784	123.767	123.176	
	117	-4.240	-3.354	138.067	147.662	123.560	122.991	
	Min	-4.5408	-10.5210	129.8471	128.5604	123.5604	122.9913	
	Max	0.2009	5.3924	147.9427	147.6622	133.8372	132.9660	
	Mean	-2.2815	-3.7181	136.6830	137.8544	126.3864	125.9853	
	Std. Dev	1.4677	4.4358	5.1814	4.9684	3.3013	3.4663	
Mean - 3 Sigma	-6.6847	-17.0255	121.1389	122.9491	116.4825	115.5864		
Mean + 3 Sigma	2.1216	9.5892	152.2271	152.7597	136.2902	136.3841		
1.00E+12	118	-1.419	2.758	143.535	149.066	122.255	121.380	
	119	-3.630	1.706	135.220	137.791	125.654	125.065	
	120	-2.793	6.995	131.683	136.246	125.225	124.613	
	121	-4.379	6.583	131.412	131.692	124.283	123.887	
	122	-3.105	-4.539	153.580	145.571	129.411	129.988	
	123	-3.955	6.318	143.932	164.670	125.769	125.002	
	124	-2.529	9.817	132.597	130.182	124.220	123.564	
	125	-3.264	2.543	129.653	129.138	128.319	126.975	
	126	-3.015	9.091	140.162	138.732	127.410	127.867	
	127	-1.630	10.473	129.594	131.422	123.574	122.785	
	Min	-4.3789	-4.5386	129.5938	129.1377	122.2554	121.3805	
	Max	-1.4188	10.4725	153.5799	164.6702	129.4115	129.9881	
	Mean	-2.9719	5.1745	137.1368	139.4510	125.8122	125.1127	
	Std. Dev	0.9384	4.6032	7.9327	11.0372	2.2185	2.5459	
	Mean - 3 Sigma	-5.7872	-8.6352	113.3387	106.3393	118.9566	117.4750	
Mean + 3 Sigma	-0.1566	18.9841	160.9348	172.5627	132.2677	132.7503		

		CMRR A.Vs+-15 Vcm+-15 V		CMRR B.Vs+-15 Vcm+-15 V		Avo A.Vs+-15 Vcm0 R2k Vo+-13.5 V		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	100.662	100.607	106.703	106.734	115.280	115.318	
	66	97.050	96.960	100.356	100.560	115.591	115.366	
	67	97.157	97.134	105.436	105.697	115.761	115.417	
	68	95.896	95.978	106.021	105.571	114.972	114.894	
	69	97.794	97.630	111.814	113.521	115.515	114.299	
	70	98.110	98.041	98.817	98.793	115.152	114.435	
	72	96.867	96.680	130.481	131.231	115.611	115.076	
	73	98.444	98.506	101.347	101.356	115.431	114.158	
	115	96.878	96.874	103.067	103.236	114.887	115.147	
	116	99.208	98.936	113.841	114.130	115.529	115.900	
	117	97.990	97.761	104.380	104.067	115.014	114.714	
	Min	95.8959	95.9782	98.8169	98.7933	114.8872	114.1578	
	Max	99.2081	98.9361	130.4814	131.2312	115.7615	115.8995	
	Mean	97.5393	97.4501	107.5561	107.8163	115.3464	114.9408	
	Std. Dev	0.9529	0.8965	9.3515	9.6668	0.3110	0.5499	
Mean - 3 Sigma	94.6806	94.7607	79.5016	78.8158	114.4134	113.2911		
Mean + 3 Sigma	100.3981	100.1395	135.6106	136.8168	116.2794	116.5905		
1.00E+12	118	99.703	99.862	105.322	104.763	115.178	114.087	
	119	93.842	93.930	113.152	111.844	115.813	115.373	
	120	101.111	100.800	105.330	104.843	115.589	115.041	
	121	98.109	98.039	99.784	99.807	115.464	115.493	
	122	95.886	95.800	125.087	130.664	115.689	115.554	
	123	95.035	94.940	106.521	106.097	115.372	113.096	
	124	101.987	101.771	100.772	100.674	115.626	115.202	
	125	100.429	100.106	107.211	106.859	115.648	115.264	
	126	100.741	100.458	108.316	108.241	115.280	114.615	
	127	97.710	97.624	101.588	101.499	115.148	113.707	
	Min	93.8420	93.9298	99.7843	99.8071	115.1482	113.0956	
	Max	101.9871	101.7713	125.0866	130.6636	115.8129	115.5536	
	Mean	98.4552	98.3330	107.3082	107.5291	115.4805	114.7431	
	Std. Dev	2.7980	2.7041	7.3920	8.9112	0.2283	0.8447	
	Mean - 3 Sigma	90.0612	90.2205	85.1322	80.7955	114.7957	112.2091	
Mean + 3 Sigma	106.8492	106.4454	129.4842	134.2627	116.1653	117.2772		

		Avo B.Vs+-15 Vcm0 R2k Vo+-13.5 V		+Isc A Vs+-15 Vcm0		+Isc B Vs+-15 Vcm0		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	115.928	116.140	-26.765	-27.189	-26.777	-26.832	
	66	115.936	115.197	-26.630	-26.441	-26.383	-25.781	
	67	116.238	116.028	-27.388	-27.211	-27.516	-26.710	
	68	115.844	115.229	-26.477	-26.407	-26.759	-26.319	
	69	115.817	115.932	-27.084	-27.002	-26.755	-26.194	
	70	115.809	115.949	-26.749	-26.651	-26.380	-25.981	
	72	115.663	115.430	-26.414	-26.266	-26.890	-26.419	
	73	115.998	116.179	-26.903	-26.814	-26.993	-26.488	
	115	115.710	115.000	-26.386	-26.385	-27.103	-26.710	
	116	115.821	115.322	-27.047	-27.008	-26.899	-26.513	
	117	116.351	115.988	-26.333	-26.260	-27.109	-26.704	
	Min	115.6630	114.9997	-27.3880	-27.2112	-27.5163	-26.7104	
	Max	116.3514	116.1794	-26.3326	-26.2596	-26.3796	-25.7807	
	Mean	115.9187	115.6254	-26.7410	-26.6443	-26.8768	-26.3820	
	Std. Dev	0.2216	0.4298	0.3556	0.3442	0.3413	0.3182	
Mean - 3 Sigma	115.2538	114.3360	-27.8077	-27.6768	-27.9027	-27.3365		
Mean + 3 Sigma	116.5836	116.9147	-25.6743	-25.6118	-25.8548	-25.4276		
1.00E+12	118	116.007	115.874	-26.201	-25.702	-26.946	-26.166	
	119	115.928	115.239	-27.018	-26.523	-27.144	-26.250	
	120	116.102	116.628	-27.316	-26.792	-26.646	-25.853	
	121	116.105	115.755	-26.508	-25.922	-26.962	-26.235	
	122	115.650	114.496	-26.658	-26.181	-26.950	-25.962	
	123	115.891	115.899	-27.037	-26.573	-26.574	-25.799	
	124	116.056	115.438	-27.034	-26.469	-26.959	-26.078	
	125	116.363	115.849	-27.084	-26.554	-26.586	-25.756	
	126	116.015	114.810	-26.583	-26.056	-26.765	-25.931	
	127	116.164	114.500	-27.422	-26.908	-26.596	-25.756	
	Min	115.6501	114.4963	-27.4224	-26.9076	-27.1437	-26.2502	
	Max	116.3627	116.6275	-26.2011	-25.7024	-26.5738	-25.7556	
	Mean	116.0280	115.4487	-26.8863	-26.3679	-26.8127	-25.9785	
	Std. Dev	0.1870	0.6902	0.3844	0.3881	0.2043	0.1927	
	Mean - 3 Sigma	115.4669	113.3781	-28.0394	-27.5323	-27.4254	-26.5565	
Mean + 3 Sigma	116.5891	117.5193	-25.7331	-25.2036	-26.1999	-25.4005		

		-Isc A Vs+-15 Vcm0		-Isc B Vs+-15 Vcm0		+Isc Vs+-5 Vcm0 Dual Amp		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	29.603	29.531	29.619	29.569	1206.385	1215.945	
	66	29.697	29.369	29.647	29.328	1220.004	1212.984	
	67	29.681	29.340	29.656	29.362	1214.878	1210.054	
	68	29.675	29.344	29.597	29.272	1206.952	1204.445	
	69	29.738	29.378	29.641	29.322	1215.979	1213.701	
	70	29.606	29.275	29.584	29.225	1214.878	1210.802	
	72	29.728	29.381	29.694	29.347	1210.789	1207.593	
	73	29.656	29.262	29.634	29.303	1209.436	1206.657	
	115	29.609	29.268	29.562	29.237	1207.770	1206.159	
	116	29.735	29.394	29.703	29.362	1217.111	1213.950	
	117	29.616	29.268	29.584	29.247	1207.895	1204.507	
	Min	29.6062	29.2622	29.5623	29.2247	1206.9517	1204.4448	
	Max	29.7377	29.3937	29.7032	29.3624	1220.0044	1213.9502	
	Mean	29.6741	29.3280	29.6303	29.3004	1212.5691	1209.0853	
	Std. Dev	0.0514	0.0537	0.0476	0.0522	4.5657	3.7004	
Mean - 3 Sigma	29.5199	29.1669	29.4874	29.1439	1198.8719	1197.9840		
Mean + 3 Sigma	29.8283	29.4890	29.7732	29.4570	1226.2663	1220.1866		
1.00E+12	118	29.709	29.087	29.653	29.046	1212.865	1200.269	
	119	29.700	29.084	29.631	29.052	1206.040	1191.667	
	120	29.694	29.068	29.622	29.021	1216.010	1201.422	
	121	29.578	28.955	29.581	28.996	1205.725	1193.038	
	122	29.741	29.128	29.628	29.024	1207.486	1194.192	
	123	29.641	29.012	29.584	28.996	1208.650	1195.345	
	124	29.672	29.062	29.675	29.081	1209.531	1194.628	
	125	29.666	29.071	29.634	29.027	1209.216	1195.750	
	126	29.637	29.043	29.597	28.984	1206.889	1194.223	
	127	29.666	29.124	29.678	29.103	1221.420	1208.278	
	Min	29.5780	28.9555	29.5811	28.9836	1205.7250	1191.6671	
	Max	29.7408	29.1276	29.6782	29.1026	1221.4198	1208.2781	
	Mean	29.6704	29.0635	29.6284	29.0331	1210.3831	1196.8811	
	Std. Dev	0.0453	0.0513	0.0342	0.0381	5.0098	5.0217	
	Mean - 3 Sigma	29.5344	28.9097	29.5257	28.9188	1195.3536	1181.8160	
Mean + 3 Sigma	29.8063	29.2172	29.7311	29.1474	1225.4127	1211.9462		

		-I _{sy} Vs+-5 Vcm0 Dual Amp		VOH A.Vs+-5 Vcm0 R10k		VOH B.Vs+-5 Vcm0 R10k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-1203.924	-1217.478	4.931	4.931	4.931	4.931	
	66	-1217.265	-1214.574	4.931	4.929	4.930	4.928	
	67	-1212.243	-1211.483	4.931	4.929	4.931	4.930	
	68	-1204.018	-1205.987	4.930	4.929	4.931	4.929	
	69	-1213.373	-1215.136	4.931	4.930	4.930	4.928	
	70	-1212.243	-1212.263	4.931	4.929	4.930	4.929	
	72	-1208.318	-1209.266	4.930	4.928	4.931	4.929	
	73	-1206.623	-1207.861	4.931	4.929	4.931	4.929	
	115	-1205.179	-1207.580	4.930	4.929	4.931	4.929	
	116	-1214.660	-1215.323	4.931	4.930	4.931	4.929	
	117	-1205.336	-1205.269	4.930	4.929	4.931	4.930	
	Min	-1217.2653	-1215.3232	4.9301	4.9283	4.9303	4.9283	
	Max	-1204.0178	-1205.2692	4.9314	4.9297	4.9315	4.9297	
	Mean	-1209.9258	-1210.4742	4.9307	4.9290	4.9307	4.9289	
	Std. Dev	4.6053	3.8030	0.0005	0.0005	0.0005	0.0005	
Mean - 3 Sigma	-1223.7417	-1221.8830	4.9294	4.9276	4.9294	4.9275		
Mean + 3 Sigma	-1196.1099	-1199.0653	4.9321	4.9304	4.9321	4.9303		
1.00E+12	118	-1210.328	-1201.272	4.930	4.927	4.931	4.928	
	119	-1203.421	-1192.873	4.931	4.928	4.931	4.928	
	120	-1213.310	-1202.397	4.932	4.929	4.931	4.927	
	121	-1203.233	-1194.029	4.930	4.927	4.930	4.927	
	122	-1204.614	-1195.215	4.930	4.927	4.930	4.927	
	123	-1205.525	-1196.558	4.931	4.927	4.930	4.926	
	124	-1207.188	-1195.621	4.931	4.927	4.930	4.927	
	125	-1206.404	-1196.807	4.931	4.928	4.931	4.927	
	126	-1204.426	-1195.590	4.930	4.927	4.930	4.927	
	127	-1218.301	-1209.141	4.932	4.929	4.930	4.927	
	Min	-1218.3011	-1209.1409	4.9301	4.9268	4.9300	4.9262	
	Max	-1203.2330	-1192.8732	4.9320	4.9286	4.9311	4.9277	
	Mean	-1207.6750	-1197.9503	4.9308	4.9275	4.9305	4.9271	
	Std. Dev	4.8982	4.9320	0.0007	0.0007	0.0004	0.0005	
	Mean - 3 Sigma	-1222.3695	-1212.7461	4.9287	4.9254	4.9293	4.9258	
Mean + 3 Sigma	-1192.9805	-1183.1544	4.9329	4.9295	4.9317	4.9285		

		VOL A.Vs+-5 Vcm0 R10k		VOL B.Vs+-5 Vcm0 R10k		VOH A.Vs+-5 Vcm0 R2k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-4.985	-4.984	-4.984	-4.984	4.843	4.843	
	66	-4.985	-4.981	-4.984	-4.981	4.843	4.841	
	67	-4.985	-4.981	-4.984	-4.981	4.844	4.841	
	68	-4.985	-4.981	-4.984	-4.980	4.843	4.841	
	69	-4.985	-4.981	-4.984	-4.980	4.844	4.842	
	70	-4.985	-4.981	-4.984	-4.980	4.843	4.841	
	72	-4.986	-4.982	-4.986	-4.982	4.842	4.840	
	73	-4.985	-4.981	-4.984	-4.980	4.843	4.840	
	115	-4.985	-4.981	-4.984	-4.980	4.843	4.840	
	116	-4.985	-4.982	-4.985	-4.981	4.844	4.842	
	117	-4.985	-4.981	-4.984	-4.980	4.843	4.840	
	Min	-4.9858	-4.9819	-4.9861	-4.9817	4.8419	4.8395	
	Max	-4.9845	-4.9810	-4.9837	-4.9802	4.8442	4.8421	
	Mean	-4.9848	-4.9813	-4.9842	-4.9806	4.8431	4.8408	
	Std. Dev	0.0004	0.0003	0.0008	0.0005	0.0008	0.0008	
Mean - 3 Sigma	-4.9860	-4.9821	-4.9866	-4.9822	4.8409	4.8384		
Mean + 3 Sigma	-4.9836	-4.9805	-4.9818	-4.9791	4.8454	4.8432		
1.00E+12	118	-4.985	-4.978	-4.984	-4.977	4.842	4.838	
	119	-4.987	-4.979	-4.987	-4.979	4.843	4.839	
	120	-4.985	-4.978	-4.984	-4.977	4.846	4.841	
	121	-4.985	-4.978	-4.983	-4.977	4.842	4.837	
	122	-4.985	-4.978	-4.984	-4.977	4.842	4.838	
	123	-4.984	-4.978	-4.984	-4.977	4.843	4.839	
	124	-4.988	-4.979	-4.986	-4.978	4.843	4.838	
	125	-4.985	-4.978	-4.984	-4.978	4.844	4.840	
	126	-4.984	-4.978	-4.984	-4.977	4.842	4.838	
	127	-4.988	-4.980	-4.987	-4.979	4.845	4.841	
	Min	-4.9877	-4.9795	-4.9871	-4.9790	4.8422	4.8374	
	Max	-4.9844	-4.9782	-4.9829	-4.9768	4.8456	4.8409	
	Mean	-4.9854	-4.9786	-4.9845	-4.9777	4.8433	4.8388	
	Std. Dev	0.0013	0.0005	0.0015	0.0007	0.0012	0.0013	
	Mean - 3 Sigma	-4.9894	-4.9802	-4.9889	-4.9799	4.8396	4.8350	
Mean + 3 Sigma	-4.9814	-4.9769	-4.9802	-4.9755	4.8470	4.8426		

		VOH B.Vs+5 Vcm0 R2k		VOL A.Vs+5 Vcm0 R2k		VOL B.Vs+5 Vcm0 R2k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL		131	4.842	4.843	-4.954	-4.954	-4.952	-4.952
	1.00E+12	66	4.842	4.840	-4.954	-4.948	-4.953	-4.946
		67	4.845	4.842	-4.954	-4.946	-4.953	-4.946
		68	4.842	4.840	-4.954	-4.947	-4.951	-4.945
		69	4.842	4.838	-4.955	-4.948	-4.953	-4.944
		70	4.842	4.840	-4.955	-4.948	-4.952	-4.946
		72	4.842	4.839	-4.957	-4.949	-4.957	-4.947
		73	4.843	4.840	-4.954	-4.947	-4.952	-4.945
		115	4.843	4.840	-4.955	-4.948	-4.952	-4.944
		116	4.843	4.840	-4.956	-4.949	-4.955	-4.947
		117	4.844	4.842	-4.955	-4.948	-4.952	-4.945
		Min	4.8417	4.8385	-4.9568	-4.9488	-4.9569	-4.9474
		Max	4.8446	4.8418	-4.9541	-4.9463	-4.9514	-4.9443
		Mean	4.8428	4.8402	-4.9548	-4.9478	-4.9529	-4.9455
		Std. Dev	0.0009	0.0010	0.0009	0.0007	0.0017	0.0010
Mean - 3 Sigma		4.8402	4.8371	-4.9574	-4.9499	-4.9580	-4.9486	
Mean + 3 Sigma	4.8454	4.8432	-4.9522	-4.9456	-4.9479	-4.9424		
2.00E+12	118	4.844	4.839	-4.954	-4.942	-4.952	-4.940	
	119	4.844	4.839	-4.958	-4.944	-4.959	-4.942	
	120	4.843	4.837	-4.955	-4.942	-4.953	-4.939	
	121	4.839	4.838	-4.954	-4.942	-4.948	-4.939	
	122	4.841	4.837	-4.955	-4.942	-4.951	-4.939	
	123	4.842	4.834	-4.954	-4.942	-4.952	-4.937	
	124	4.841	4.837	-4.961	-4.944	-4.956	-4.941	
	125	4.843	4.838	-4.954	-4.942	-4.952	-4.940	
	126	4.842	4.838	-4.954	-4.942	-4.951	-4.939	
	127	4.841	4.839	-4.961	-4.944	-4.957	-4.943	
	Min	4.8387	4.8343	-4.9611	-4.9443	-4.9594	-4.9428	
	Max	4.8438	4.8392	-4.9537	-4.9420	-4.9476	-4.9371	
	Mean	4.8419	4.8375	-4.9562	-4.9426	-4.9533	-4.9399	
	Std. Dev	0.0015	0.0013	0.0029	0.0009	0.0034	0.0016	
	Mean - 3 Sigma	4.8373	4.8335	-4.9648	-4.9454	-4.9634	-4.9448	
Mean + 3 Sigma	4.8465	4.8415	-4.9475	-4.9399	-4.9432	-4.9350		

		Vos A.Vs+5 Vcm0		Vos B.Vs+5 Vcm0		Vos Ch Delta.Vs+5 Vcm0		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL		131	-24.631	-23.288	-47.468	-45.548	-22.837	-22.260
	1.00E+12	66	-55.025	-42.351	-48.303	-53.805	6.722	-11.454
		67	-39.671	-41.464	6.481	-1.612	46.153	39.852
		68	-35.194	-42.838	-15.560	-13.172	19.634	29.666
		69	-20.004	-23.246	-12.692	-30.794	7.313	-7.548
		70	-44.290	-54.854	-39.135	-25.986	5.156	28.868
		72	-49.399	-46.361	1.069	3.471	50.468	49.831
		73	-23.274	-23.395	-36.509	-36.976	-13.235	-13.581
		115	-30.032	-30.331	-35.298	-49.339	-5.265	-19.008
		116	0.163	21.145	-37.774	-40.492	-37.937	-61.637
		117	-27.324	-14.361	-35.769	-23.294	-8.445	-8.933
		Min	-55.0252	-54.8537	-48.3028	-53.8052	-37.9369	-61.6371
		Max	0.1633	21.1453	6.4814	3.4705	50.4681	49.8313
		Mean	-32.4051	-29.8056	-25.3488	-27.2000	7.0563	2.6056
		Std. Dev	16.0956	21.8163	18.7690	19.1256	26.6736	33.8784
Mean - 3 Sigma		-80.6920	-95.2544	-81.6558	-84.5769	-72.9646	-99.0297	
Mean + 3 Sigma	15.8817	35.6433	30.9581	30.1769	87.0772	104.2409		
2.00E+12	118	-28.528	-50.660	-37.264	-9.574	-8.737	41.086	
	119	-32.241	-37.887	-33.728	-17.294	-1.488	20.593	
	120	-15.604	-7.020	-14.317	4.011	1.286	11.031	
	121	-41.645	-39.971	-58.322	-55.148	-16.678	-15.177	
	122	-38.299	-29.287	8.859	23.678	47.159	52.965	
	123	-12.566	-31.498	-38.321	-17.917	-25.755	13.581	
	124	-44.828	-41.060	-15.115	-10.654	29.713	30.406	
	125	-25.865	0.509	-22.784	-14.026	3.081	-14.535	
	126	-52.043	-40.222	-22.335	-19.509	29.708	20.713	
	127	-47.372	-55.789	-37.405	-46.961	9.966	8.828	
	Min	-52.0431	-55.7887	-58.3222	-55.1480	-25.7546	-15.1769	
	Max	-12.5662	0.5091	8.8593	23.6778	47.1586	52.9648	
	Mean	-33.8990	-33.2885	-27.0734	-16.3394	6.8257	16.9491	
	Std. Dev	13.3145	17.7445	18.2441	22.4999	22.7399	21.6639	
	Mean - 3 Sigma	-73.8425	-86.5220	-81.8056	-83.8390	-61.3941	-48.0425	
Mean + 3 Sigma	6.0444	19.9450	27.6589	51.1602	75.0454	81.9407		

		+Ib A.Vs+5 Vcm0		+Ib B.Vs+5 Vcm0		-Ib A.Vs+5 Vcm0		
		PRE	Post	PRE	Post	PRE	Post	
CTRL	SN	131	-114.397	-113.332	-114.995	-114.429	-112.398	-111.400
	66	-116.056	-136.654	-116.536	-140.405	-114.695	-131.585	
	67	-118.255	-134.336	-116.821	-134.804	-116.781	-142.490	
	68	-115.594	-131.705	-114.816	-132.120	-114.458	-128.777	
	69	-116.923	-135.501	-116.549	-131.260	-116.203	-132.625	
	70	-115.512	-134.459	-116.389	-136.571	-115.181	-136.547	
	72	-115.280	-125.788	-113.969	-126.396	-114.161	-130.991	
	73	-116.074	-144.845	-117.284	-141.745	-116.272	-131.356	
	115	-115.500	-125.558	-115.583	-133.114	-113.353	-131.605	
	116	-116.112	-126.339	-117.464	-130.332	-115.384	-130.275	
	117	-114.553	-131.565	-115.392	-136.185	-114.741	-130.180	
	Min	-118.2553	-144.8446	-117.4639	-141.7451	-116.7806	-142.4902	
	Max	-114.5531	-125.5584	-113.9688	-126.3958	-113.3531	-128.7765	
	Mean	-115.9859	-132.6750	-116.0803	-134.2932	-115.1229	-132.6431	
	Std. Dev	1.0123	5.9465	1.1163	4.6583	1.0612	4.0196	
Mean - 3 Sigma	-119.0229	-150.5145	-119.4290	-148.2681	-118.3065	-144.7020		
Mean + 3 Sigma	-112.9490	-114.8354	-112.7315	-120.3183	-111.9393	-120.5842		
2.00E+12	118	-115.274	-150.855	-116.789	-142.147	-115.716	-144.325	
	119	-117.344	-166.034	-116.519	-134.668	-116.198	-153.472	
	120	-116.423	-160.046	-117.322	-158.223	-116.036	-145.053	
	121	-112.746	-151.103	-114.758	-149.619	-112.488	-150.680	
	122	-117.209	-141.449	-115.489	-151.430	-117.350	-145.324	
	123	-113.850	-143.092	-113.983	-140.011	-112.272	-156.430	
	124	-113.432	-156.849	-115.558	-144.924	-112.768	-141.480	
	125	-114.588	-144.989	-116.092	-139.139	-115.014	-150.482	
	126	-113.909	-154.271	-114.874	-141.458	-112.707	-154.381	
	127	-115.128	-139.163	-117.231	-144.965	-115.228	-148.596	
	Min	-117.3442	-166.0339	-117.3224	-158.2232	-117.3501	-156.4299	
	Max	-112.7455	-139.1633	-113.9829	-134.6677	-112.2720	-141.4798	
	Mean	-114.9902	-150.7852	-115.8616	-144.6585	-114.5777	-149.0222	
	Std. Dev	1.5887	8.7070	1.1210	6.8562	1.8501	4.9085	
	Mean - 3 Sigma	-119.7564	-176.9061	-119.2245	-165.2271	-120.1281	-163.7478	
Mean + 3 Sigma	-110.2241	-124.6643	-112.4986	-124.0900	-109.0273	-134.2967		

		-Ib B.Vs+5 Vcm0		Ios A.Vs+5 Vcm0		Ios B.Vs+5 Vcm0		
		PRE	Post	PRE	Post	PRE	Post	
CTRL	SN	131	-111.299	-111.448	-1.999	-1.932	-3.695	-2.982
	66	-114.568	-136.323	-1.361	-5.069	-1.969	-4.082	
	67	-116.760	-125.541	-1.475	8.155	-0.062	-9.263	
	68	-112.664	-127.892	-1.136	-2.929	-2.152	-4.228	
	69	-114.554	-137.307	-0.720	-2.876	-1.995	6.047	
	70	-113.718	-126.060	-0.330	2.088	-2.671	-10.512	
	72	-111.510	-125.317	-1.120	5.203	-2.459	-1.079	
	73	-113.777	-135.531	0.198	-13.488	-3.507	-6.214	
	115	-113.113	-126.615	-2.147	6.046	-2.469	-6.499	
	116	-112.663	-132.530	-0.728	3.936	-4.801	2.198	
	117	-111.104	-134.570	0.188	-1.385	-4.288	-1.615	
	Min	-116.7595	-137.3068	-2.1466	-13.4882	-4.8011	-10.5116	
	Max	-111.1037	-125.3167	0.1978	8.1546	-0.0616	6.0471	
	Mean	-113.4431	-130.7685	-0.8630	-0.0319	-2.6372	-3.5247	
	Std. Dev	1.6404	4.9282	0.7425	6.4667	1.3315	5.0840	
Mean - 3 Sigma	-118.3643	-145.5532	-3.0905	-19.4318	-6.6315	-18.7767		
Mean + 3 Sigma	-108.5219	-115.9839	1.3645	19.3681	1.3572	11.7274		
2.00E+12	118	-115.850	-147.205	0.442	-6.531	-0.939	5.059	
	119	-113.597	-137.333	-1.146	-12.562	-2.922	2.665	
	120	-114.727	-164.721	-0.387	-14.993	-2.596	6.497	
	121	-110.595	-156.869	-0.258	-0.423	-4.163	7.250	
	122	-113.208	-146.578	0.141	3.875	-2.281	-4.852	
	123	-110.715	-146.205	-1.578	13.337	-3.268	6.193	
	124	-112.380	-157.744	-0.664	-15.369	-3.178	12.819	
	125	-113.683	-141.819	0.425	5.492	-2.409	2.679	
	126	-111.522	-147.886	-1.202	0.111	-3.351	6.428	
	127	-114.664	-154.475	0.101	9.433	-2.567	9.510	
	Min	-115.8504	-164.7206	-1.5778	-15.3692	-4.1633	-4.8520	
	Max	-110.5949	-137.3328	0.4416	13.3375	-0.9388	12.8195	
	Mean	-113.0942	-150.0835	-0.4125	-1.7630	-2.7674	5.4249	
	Std. Dev	1.7710	8.2300	0.7155	10.2341	0.8506	4.6946	
	Mean - 3 Sigma	-118.4072	-174.7734	-2.5590	-32.4652	-5.3191	-8.6587	
Mean + 3 Sigma	-107.7812	-125.3935	1.7340	28.9392	-0.2157	19.5086		

		CMRR A.Vs+5 Vcm+4 V		CMRR B.Vs+5 Vcm+4 V		CMRR A.Vs+5 Vcm+5 V		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	140.657	146.583	133.157	142.337	93.044	93.025	
	66	128.106	128.002	137.428	157.716	88.961	88.863	
	67	128.211	126.245	131.551	133.438	89.096	89.060	
	68	121.553	121.064	133.345	131.451	87.564	87.695	
	69	123.882	121.606	129.269	128.036	89.719	89.483	
	70	139.797	129.632	151.078	145.642	90.067	89.973	
	72	127.978	125.792	130.710	126.454	88.626	88.470	
	73	134.331	142.466	128.470	129.565	90.611	90.663	
	115	128.386	126.940	133.252	138.062	88.646	88.644	
	116	128.253	125.859	127.285	126.093	91.483	91.178	
	117	130.973	127.031	126.210	125.963	89.962	89.673	
	Min	121.5533	121.0637	126.2103	125.9628	87.5637	87.6945	
	Max	139.7972	142.4658	151.0783	157.7156	91.4828	91.1778	
	Mean	129.1470	127.4637	132.8599	134.2418	89.4735	89.3702	
	Std. Dev	5.0961	5.8939	7.2031	10.3280	1.1274	1.0490	
Mean - 3 Sigma	113.8589	109.7822	111.2506	103.2579	86.0915	86.2233		
Mean + 3 Sigma	144.4352	145.1453	154.4692	165.2256	92.8556	92.5171		
2.00E+12	118	126.050	122.905	124.625	122.489	92.125	92.330	
	119	122.062	122.582	135.062	131.873	85.324	85.440	
	120	132.648	130.508	133.082	127.914	93.677	93.360	
	121	133.324	130.394	125.540	124.192	90.075	89.997	
	122	124.296	123.506	147.967	147.424	87.665	87.594	
	123	126.685	123.279	129.205	130.700	86.557	86.424	
	124	130.845	136.873	128.789	126.624	94.906	94.631	
	125	138.650	135.937	141.687	138.382	92.881	92.487	
	126	127.951	127.088	142.284	144.017	93.305	92.867	
	127	138.300	132.004	128.583	127.094	89.584	89.496	
	Min	122.0618	122.5825	124.6247	122.4890	85.3238	85.4395	
	Max	138.6498	136.8727	147.9669	147.4240	94.9059	94.6309	
	Mean	130.0810	128.5076	133.6824	132.0711	90.6098	90.4626	
	Std. Dev	5.6643	5.4348	7.9071	8.4707	3.2824	3.1633	
	Mean - 3 Sigma	113.0881	112.2031	109.9610	106.6590	80.7627	80.9725	
Mean + 3 Sigma	147.0739	144.8122	157.4038	157.4832	100.4569	99.9526		

		CMRR B.Vs+5 Vcm+5 V		Avo A.Vs+5 Vcm0 R2k Vo+4 V		Avo B.Vs+5 Vcm0 R2k Vo+4 V		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	102.420	102.660	111.301	111.217	111.702	111.881	
	66	92.931	93.104	111.529	111.121	111.784	111.063	
	67	99.942	100.385	111.661	111.060	112.130	111.536	
	68	101.434	100.650	111.220	110.817	111.603	110.995	
	69	116.505	148.874	111.421	110.485	111.626	111.416	
	70	91.064	90.996	111.157	110.505	111.598	111.440	
	72	103.132	103.489	111.482	110.892	111.639	110.993	
	73	94.076	94.124	111.375	110.248	111.694	111.471	
	115	96.552	96.919	111.108	111.102	111.640	110.676	
	116	154.130	134.483	111.511	111.527	111.595	111.035	
	117	98.609	98.116	111.072	110.679	112.088	111.561	
	Min	91.0645	90.9958	111.0725	110.2483	111.5952	110.6759	
	Max	154.1296	148.8737	111.6611	111.5273	112.1295	111.5612	
	Mean	104.8376	106.1140	111.3536	110.8436	111.7397	111.2186	
	Std. Dev	18.7351	19.4161	0.2021	0.3780	0.2026	0.3023	
Mean - 3 Sigma	48.6323	47.8656	110.7472	109.7097	111.1318	110.3116		
Mean + 3 Sigma	161.0428	164.3624	111.9600	111.9775	112.3477	112.1256		
2.00E+12	118	100.063	98.982	111.223	110.120	111.781	111.394	
	119	120.641	113.767	111.725	110.820	111.611	110.632	
	120	100.327	99.382	111.520	110.603	111.785	111.717	
	121	92.255	92.259	111.394	110.959	111.850	111.094	
	122	103.078	104.402	111.581	111.192	111.576	110.337	
	123	102.066	101.433	111.294	109.232	111.744	111.164	
	124	93.486	93.308	111.389	110.673	111.800	111.160	
	125	103.554	102.485	111.411	110.688	111.920	111.198	
	126	105.485	105.219	111.285	110.280	111.693	110.421	
	127	94.685	94.526	111.279	110.021	111.887	110.145	
	Min	92.2551	92.2592	111.2225	109.2322	111.5763	110.1445	
	Max	120.6411	113.7670	111.7251	111.1917	111.9197	111.7171	
	Mean	101.5639	100.5763	111.4099	110.4588	111.7645	110.9262	
	Std. Dev	8.0886	6.4734	0.1574	0.5657	0.1120	0.5118	
	Mean - 3 Sigma	77.2981	81.1560	110.9378	108.7618	111.4284	109.3907	
Mean + 3 Sigma	125.8297	119.9966	111.8821	112.1559	112.1007	112.4617		

		+Isc A Vs+5 Vcm0		+Isc B Vs+5 Vcm0		-Isc A Vs+5 Vcm0		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-16.449	-16.684	-16.434	-16.631	23.428	23.380	
	66	-16.349	-16.180	-16.183	-15.939	23.518	23.218	
	67	-16.531	-16.374	-16.575	-16.368	23.550	23.233	
	68	-16.283	-16.186	-16.402	-16.255	23.500	23.183	
	69	-16.518	-16.405	-16.296	-16.130	23.572	23.246	
	70	-16.471	-16.340	-16.290	-16.146	23.421	23.114	
	72	-16.249	-16.108	-16.493	-16.333	23.534	23.211	
	73	-16.393	-16.274	-16.462	-16.296	23.490	23.130	
	115	-16.249	-16.186	-16.600	-16.474	23.434	23.111	
	116	-16.568	-16.477	-16.468	-16.330	23.534	23.215	
	117	-16.183	-16.080	-16.672	-16.524	23.434	23.111	
	Min	-16.5685	-16.4775	-16.6718	-16.5244	23.4214	23.1112	
	Max	-16.1833	-16.0799	-16.1833	-15.9391	23.5717	23.2458	
	Mean	-16.3796	-16.2612	-16.4441	-16.2797	23.4987	23.1773	
	Std. Dev	0.1371	0.1337	0.1535	0.1727	0.0530	0.0547	
Mean - 3 Sigma	-16.7910	-16.6621	-16.9046	-16.7976	23.3397	23.0130		
Mean + 3 Sigma	-15.9683	-15.8602	-15.9837	-15.7617	23.6577	23.3415		
1.00E+12	118	-16.158	-15.767	-16.525	-16.099	23.509	22.914	
	119	-16.449	-16.039	-16.578	-16.121	23.522	22.942	
	120	-16.703	-16.280	-16.334	-15.905	23.487	22.892	
	121	-16.287	-15.820	-16.503	-16.127	23.399	22.811	
	122	-16.249	-15.864	-16.381	-15.955	23.590	22.995	
	123	-16.509	-16.127	-16.365	-15.961	23.462	22.861	
	124	-16.537	-16.083	-16.537	-16.071	23.506	22.911	
	125	-16.565	-16.133	-16.337	-15.902	23.481	22.905	
	126	-16.346	-15.920	-16.478	-16.036	23.450	22.880	
	127	-16.744	-16.330	-16.327	-15.892	23.487	22.967	
	Min	-16.7438	-16.3304	-16.5779	-16.1269	23.3994	22.8107	
	Max	-16.1582	-15.7669	-16.3273	-15.8921	23.5905	22.9954	
	Mean	-16.4548	-16.0364	-16.4363	-16.0067	23.4893	22.9078	
	Std. Dev	0.1937	0.1910	0.0970	0.0944	0.0499	0.0528	
	Mean - 3 Sigma	-17.0358	-16.6094	-16.7273	-16.2899	23.3396	22.7492	
Mean + 3 Sigma	-15.8738	-15.4635	-16.1453	-15.7234	23.6390	23.0663		

		-Isc B Vs+5 Vcm0		+Isc Vs+1.5 Vcm0 Dual Amp		-Isc Vs+1.5 Vcm0 Dual Amp		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	23.418	23.377	1145.745	1155.964	-1144.307	-1157.956	
	66	23.443	23.127	1158.452	1152.317	-1156.706	-1153.866	
	67	23.484	23.180	1153.105	1148.765	-1151.621	-1150.993	
	68	23.393	23.080	1146.091	1144.775	-1144.683	-1146.559	
	69	23.456	23.133	1153.766	1152.473	-1152.720	-1154.271	
	70	23.387	23.045	1154.206	1150.634	-1152.939	-1152.804	
	72	23.487	23.152	1150.023	1147.424	-1148.262	-1149.463	
	73	23.443	23.114	1148.576	1146.147	-1147.100	-1148.058	
	115	23.371	23.052	1147.161	1145.960	-1146.410	-1148.120	
	116	23.490	23.146	1156.250	1152.567	-1154.760	-1154.459	
	117	23.390	23.071	1147.947	1143.872	-1146.378	-1146.559	
	Min	23.3713	23.0455	1146.0914	1143.8716	-1156.7064	-1154.4590	
	Max	23.4902	23.1801	1158.4521	1152.5667	-1144.6833	-1146.5592	
	Mean	23.4345	23.1100	1151.5578	1148.4933	-1150.1581	-1150.5153	
	Std. Dev	0.0458	0.0457	4.1811	3.3328	4.1062	3.1717	
Mean - 3 Sigma	23.2971	22.9729	1139.0144	1138.4951	-1162.4767	-1160.0303		
Mean + 3 Sigma	23.5719	23.2471	1164.1011	1158.4916	-1137.8394	-1141.0003		
1.00E+12	118	23.440	22.848	1152.099	1139.010	-1150.459	-1140.752	
	119	23.424	22.861	1146.154	1131.935	-1144.809	-1133.633	
	120	23.412	22.814	1154.426	1139.945	-1153.159	-1141.782	
	121	23.365	22.801	1145.525	1132.309	-1143.993	-1134.007	
	122	23.450	22.851	1146.500	1133.151	-1144.997	-1134.975	
	123	23.396	22.814	1147.664	1134.553	-1146.692	-1136.162	
	124	23.468	22.883	1149.079	1133.681	-1147.163	-1135.131	
	125	23.431	22.836	1147.790	1134.366	-1147.226	-1136.349	
	126	23.396	22.804	1146.626	1134.148	-1145.594	-1135.412	
	127	23.471	22.911	1159.458	1145.430	-1158.056	-1147.590	
	Min	23.3650	22.8013	1145.5253	1131.9353	-1158.0563	-1147.5896	
	Max	23.4715	22.9109	1159.4585	1145.4298	-1143.9927	-1133.6326	
	Mean	23.4254	22.8423	1149.5323	1135.8528	-1148.2149	-1137.5793	
	Std. Dev	0.0339	0.0359	4.4834	4.2838	4.4396	4.4380	
	Mean - 3 Sigma	23.3239	22.7348	1136.0821	1123.0013	-1161.5336	-1150.8932	
Mean + 3 Sigma	23.5270	22.9499	1162.9824	1148.7042	-1134.8961	-1124.2653		

		VOH A.Vs+-1.5 Vcm0 R10k		VOH B.Vs+-1.5 Vcm0 R10k		VOL A.Vs+-1.5 Vcm0 R10k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	1.458	1.458	1.458	1.458	-1.491	-1.491	
	66	1.458	1.456	1.458	1.456	-1.491	-1.488	
	67	1.459	1.457	1.459	1.457	-1.491	-1.488	
	68	1.458	1.456	1.458	1.456	-1.491	-1.488	
	69	1.458	1.457	1.458	1.456	-1.491	-1.488	
	70	1.458	1.456	1.458	1.456	-1.491	-1.488	
	72	1.458	1.456	1.458	1.456	-1.492	-1.489	
	73	1.458	1.456	1.458	1.456	-1.491	-1.488	
	115	1.458	1.456	1.458	1.457	-1.491	-1.488	
	116	1.458	1.457	1.458	1.456	-1.491	-1.488	
	117	1.458	1.456	1.459	1.457	-1.491	-1.488	
	Min	1.4576	1.4558	1.4578	1.4558	-1.4916	-1.4886	
	Max	1.4586	1.4567	1.4586	1.4568	-1.4907	-1.4880	
	Mean	1.4581	1.4563	1.4581	1.4562	-1.4909	-1.4882	
	Std. Dev	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	
Mean - 3 Sigma	1.4571	1.4553	1.4572	1.4553	-1.4918	-1.4887		
Mean + 3 Sigma	1.4591	1.4573	1.4590	1.4572	-1.4900	-1.4876		
2.00E+12	118	1.458	1.454	1.458	1.455	-1.491	-1.486	
	119	1.458	1.455	1.458	1.455	-1.492	-1.486	
	120	1.459	1.455	1.458	1.455	-1.491	-1.486	
	121	1.458	1.454	1.458	1.455	-1.491	-1.486	
	122	1.458	1.454	1.458	1.454	-1.491	-1.486	
	123	1.458	1.455	1.458	1.454	-1.491	-1.486	
	124	1.458	1.454	1.458	1.454	-1.493	-1.486	
	125	1.458	1.455	1.458	1.454	-1.491	-1.486	
	126	1.458	1.454	1.458	1.454	-1.491	-1.486	
	127	1.459	1.455	1.458	1.455	-1.493	-1.487	
	Min	1.4577	1.4541	1.4576	1.4540	-1.4931	-1.4866	
	Max	1.4589	1.4554	1.4583	1.4548	-1.4906	-1.4855	
	Mean	1.4581	1.4546	1.4580	1.4544	-1.4913	-1.4858	
	Std. Dev	0.0005	0.0005	0.0002	0.0003	0.0010	0.0004	
	Mean - 3 Sigma	1.4567	1.4532	1.4573	1.4537	-1.4944	-1.4871	
Mean + 3 Sigma	1.4596	1.4560	1.4586	1.4552	-1.4883	-1.4846		

		VOL B.Vs+-1.5 Vcm0 R10k		VOH A.Vs+-1.5 Vcm0 R2k		VOH B.Vs+-1.5 Vcm0 R2k		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-1.490	-1.490	1.409	1.409	1.409	1.409	
	66	-1.490	-1.488	1.409	1.408	1.409	1.407	
	67	-1.490	-1.488	1.410	1.408	1.410	1.408	
	68	-1.490	-1.488	1.409	1.407	1.409	1.407	
	69	-1.490	-1.488	1.410	1.408	1.409	1.407	
	70	-1.490	-1.488	1.410	1.408	1.409	1.407	
	72	-1.492	-1.489	1.409	1.407	1.409	1.407	
	73	-1.490	-1.488	1.409	1.407	1.409	1.407	
	115	-1.490	-1.488	1.409	1.407	1.410	1.408	
	116	-1.491	-1.488	1.410	1.408	1.409	1.407	
	117	-1.490	-1.488	1.409	1.407	1.410	1.408	
	Min	-1.4920	-1.4886	1.4085	1.4068	1.4088	1.4067	
	Max	-1.4903	-1.4875	1.4099	1.4082	1.4100	1.4082	
	Mean	-1.4906	-1.4878	1.4093	1.4076	1.4092	1.4074	
	Std. Dev	0.0006	0.0004	0.0005	0.0005	0.0004	0.0005	
Mean - 3 Sigma	-1.4924	-1.4890	1.4079	1.4062	1.4078	1.4059		
Mean + 3 Sigma	-1.4888	-1.4866	1.4107	1.4089	1.4105	1.4088		
2.00E+12	118	-1.490	-1.485	1.409	1.406	1.409	1.406	
	119	-1.493	-1.486	1.409	1.406	1.409	1.406	
	120	-1.491	-1.485	1.410	1.407	1.409	1.406	
	121	-1.490	-1.485	1.409	1.405	1.408	1.406	
	122	-1.490	-1.485	1.409	1.405	1.408	1.405	
	123	-1.490	-1.485	1.409	1.406	1.409	1.404	
	124	-1.492	-1.486	1.409	1.406	1.408	1.405	
	125	-1.490	-1.485	1.410	1.406	1.409	1.406	
	126	-1.490	-1.485	1.409	1.405	1.409	1.406	
	127	-1.493	-1.486	1.410	1.407	1.409	1.406	
	Min	-1.4927	-1.4863	1.4087	1.4054	1.4079	1.4045	
	Max	-1.4900	-1.4849	1.4105	1.4072	1.4095	1.4062	
	Mean	-1.4909	-1.4854	1.4093	1.4060	1.4088	1.4056	
	Std. Dev	0.0011	0.0005	0.0007	0.0007	0.0005	0.0005	
	Mean - 3 Sigma	-1.4942	-1.4869	1.4072	1.4040	1.4072	1.4041	
Mean + 3 Sigma	-1.4876	-1.4838	1.4113	1.4081	1.4104	1.4071		

		VOL A.Vs+-1.5 Vcm0 R2k		VOL B.Vs+-1.5 Vcm0 R2k		Vos A.Vs+-1.5 Vcm0		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-1.479	-1.479	-1.479	-1.478	-1.478	-17.292	-15.606
	66	-1.479	-1.474	-1.474	-1.478	-1.473	-46.432	-34.839
1.00E+12	67	-1.479	-1.474	-1.474	-1.478	-1.473	-31.682	-34.262
	68	-1.479	-1.474	-1.474	-1.478	-1.473	-26.668	-35.104
	69	-1.479	-1.474	-1.474	-1.478	-1.473	-13.230	-14.395
	70	-1.479	-1.474	-1.474	-1.478	-1.473	-34.588	-45.699
	72	-1.481	-1.475	-1.475	-1.481	-1.475	-40.882	-39.346
	73	-1.479	-1.474	-1.474	-1.478	-1.473	-17.441	-17.804
	115	-1.479	-1.474	-1.474	-1.478	-1.473	-23.286	-23.753
	116	-1.480	-1.475	-1.475	-1.480	-1.474	7.815	28.197
	117	-1.479	-1.474	-1.474	-1.478	-1.473	-21.197	-10.207
	Min	-1.4805	-1.4749	-1.4749	-1.4812	-1.4748	-46.4320	-45.6994
	Max	-1.4789	-1.4738	-1.4738	-1.4779	-1.4729	7.8150	28.1966
	Mean	-1.4793	-1.4742	-1.4742	-1.4786	-1.4734	-24.7591	-22.7213
	Std. Dev	0.0005	0.0004	0.0004	0.0007	0.0007	15.4210	21.2956
	Mean - 3 Sigma	-1.4809	-1.4753	-1.4753	-1.4819	-1.4754	-71.0220	-86.6081
	Mean + 3 Sigma	-1.4776	-1.4732	-1.4732	-1.4753	-1.4715	21.5039	41.1655
2.00E+12	118	-1.479	-1.470	-1.470	-1.478	-1.469	-19.727	-45.485
	119	-1.482	-1.471	-1.471	-1.483	-1.471	-25.602	-32.246
	120	-1.479	-1.470	-1.470	-1.479	-1.469	-5.305	2.506
	121	-1.479	-1.470	-1.470	-1.477	-1.469	-32.299	-31.863
	122	-1.479	-1.470	-1.470	-1.478	-1.469	-30.435	-23.402
	123	-1.479	-1.470	-1.470	-1.478	-1.468	-5.338	-24.982
	124	-1.483	-1.471	-1.471	-1.481	-1.470	-36.677	-35.812
	125	-1.479	-1.470	-1.470	-1.478	-1.469	-18.328	8.704
	126	-1.479	-1.470	-1.470	-1.478	-1.469	-43.864	-31.437
	127	-1.483	-1.471	-1.471	-1.482	-1.471	-41.185	-49.432
	Min	-1.4833	-1.4715	-1.4715	-1.4826	-1.4709	-43.8644	-49.4322
	Max	-1.4787	-1.4698	-1.4698	-1.4766	-1.4681	-5.3049	8.7043
	Mean	-1.4801	-1.4702	-1.4702	-1.4790	-1.4692	-25.8760	-26.3449
	Std. Dev	0.0019	0.0007	0.0007	0.0021	0.0009	13.6482	18.7130
	Mean - 3 Sigma	-1.4858	-1.4722	-1.4722	-1.4852	-1.4719	-66.8205	-82.4837
Mean + 3 Sigma	-1.4744	-1.4682	-1.4682	-1.4729	-1.4665	15.0686	29.7940	

		Vos B.Vs+-1.5 Vcm0		Vos Ch Delta.Vs+-1.5 Vcm0		+Ib A.Vs+-1.5 Vcm0		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	-38.715	-37.310	-37.310	-21.423	-21.704	-129.379	-128.570
	66	-42.907	-48.502	-48.502	3.525	-13.664	-131.513	-156.323
1.00E+12	67	14.038	5.434	5.434	45.720	39.696	-133.413	-153.437
	68	-10.305	-7.464	-7.464	16.364	27.640	-131.074	-151.113
	69	-6.309	-25.096	-25.096	6.921	-10.701	-132.132	-154.206
	70	-31.413	-18.111	-18.111	3.175	27.588	-130.945	-152.954
	72	9.018	11.752	11.752	49.900	51.098	-130.711	-143.829
	73	-27.730	-28.608	-28.608	-10.289	-10.804	-131.616	-165.060
	115	-30.229	-45.968	-45.968	-6.943	-22.215	-130.687	-144.611
	116	-28.420	-30.475	-30.475	-36.235	-58.672	-132.077	-143.684
	117	-28.121	-16.227	-16.227	-6.925	-6.020	-130.302	-149.574
	Min	-42.9072	-48.5025	-48.5025	-36.2354	-58.6719	-133.4134	-165.0595
	Max	14.0383	11.7518	11.7518	49.9003	51.0977	-130.3015	-143.6838
	Mean	-18.2379	-20.3267	-20.3267	6.5212	2.3946	-131.4470	-151.4790
	Std. Dev	18.8776	19.7919	19.7919	25.8378	33.4075	0.9182	6.5959
	Mean - 3 Sigma	-74.8706	-79.7024	-79.7024	-70.9922	-97.8278	-134.2016	-171.2668
	Mean + 3 Sigma	38.3949	39.0490	39.0490	84.0346	102.6169	-128.6925	-131.6912
2.00E+12	118	-29.084	-0.554	-0.554	-9.357	44.931	-130.577	-171.794
	119	-26.095	-10.105	-10.105	-0.493	22.141	-133.137	-189.691
	120	-7.383	7.668	7.668	-2.078	5.162	-131.810	-182.174
	121	-50.567	-46.899	-46.899	-18.268	-15.036	-128.154	-173.410
	122	16.443	34.668	34.668	46.878	58.069	-132.678	-162.080
	123	-28.269	-8.080	-8.080	-22.931	16.902	-128.858	-164.796
	124	-8.281	-2.370	-2.370	28.396	33.442	-129.032	-180.524
	125	-15.370	-5.943	-5.943	2.957	-14.647	-129.616	-166.309
	126	-14.179	-14.045	-14.045	29.686	17.392	-129.119	-176.460
	127	-30.558	-40.211	-40.211	10.627	9.222	-130.665	-160.438
	Min	-50.5669	-46.8987	-46.8987	-22.9311	-15.0359	-133.1367	-189.6909
	Max	16.4430	34.6675	34.6675	46.8784	58.0693	-128.1537	-160.4379
	Mean	-19.3343	-8.5871	-8.5871	6.5417	17.7578	-130.3646	-172.7676
	Std. Dev	17.9796	22.9626	22.9626	22.4366	23.5384	1.7095	9.5542
	Mean - 3 Sigma	-73.2729	-77.4749	-77.4749	-60.7680	-52.8575	-135.4932	-201.4302
Mean + 3 Sigma	34.6044	60.3007	60.3007	73.8514	88.3730	-125.2360	-144.1051	

		+Ib B.Vs+-1.5 Vcm0		-Ib A.Vs+-1.5 Vcm0		-Ib B.Vs+-1.5 Vcm0		
		PRE	Post	PRE	Post	PRE	Post	
CTRL	SN	131	-130.528	-129.022	-127.886	-126.544	-126.665	-127.323
	66	-131.830	-159.127	-130.156	-150.171	-130.215	-156.370	
	67	-132.190	-152.457	-132.012	-161.276	-132.659	-144.611	
	68	-130.130	-149.159	-129.875	-147.784	-127.523	-147.007	
	69	-131.924	-150.308	-131.649	-152.036	-130.725	-156.106	
	70	-131.691	-155.686	-130.541	-155.515	-129.022	-144.227	
	72	-129.253	-144.832	-129.521	-149.733	-127.135	-145.042	
	73	-132.274	-161.816	-131.793	-150.495	-128.613	-153.030	
	115	-131.201	-151.427	-128.797	-150.697	-127.867	-145.042	
	116	-131.922	-149.315	-130.153	-149.203	-128.569	-151.020	
	117	-129.791	-156.019	-130.027	-149.991	-127.052	-152.604	
	Min	-132.2736	-161.8158	-132.0125	-161.2757	-132.6593	-156.3700	
	Max	-129.2529	-144.8324	-128.7972	-147.7838	-127.0521	-144.2271	
	Mean	-131.2206	-153.0146	-130.4525	-151.6899	-128.9382	-149.5058	
	Std. Dev	1.0920	5.1278	1.0526	3.9373	1.7912	4.8638	
Mean - 3 Sigma	-134.4965	-168.3979	-133.6102	-163.5019	-134.3117	-164.0973		
Mean + 3 Sigma	-127.9447	-137.6314	-127.2947	-139.8780	-123.5647	-134.9143		
2.00E+12	118	-131.737	-162.206	-131.135	-166.052	-131.597	-170.210	
	119	-131.438	-155.468	-131.474	-174.496	-129.213	-159.190	
	120	-133.290	-180.552	-131.535	-167.860	-130.225	-187.898	
	121	-129.662	-171.129	-127.951	-172.928	-125.759	-180.094	
	122	-130.077	-172.836	-132.697	-167.076	-128.867	-168.575	
	123	-130.133	-162.679	-127.269	-181.451	-125.930	-168.219	
	124	-129.792	-168.314	-128.209	-162.907	-128.264	-182.052	
	125	-132.212	-161.560	-130.171	-173.372	-129.244	-164.026	
	126	-130.307	-164.021	-127.992	-177.313	-127.177	-168.715	
	127	-131.930	-166.885	-130.701	-170.466	-129.804	-175.540	
	Min	-133.2899	-180.5517	-132.6967	-181.4506	-131.5974	-187.8979	
	Max	-129.6819	-155.4681	-127.2694	-162.9065	-125.7587	-159.1904	
	Mean	-131.0597	-166.5650	-129.9134	-171.3918	-128.6079	-172.4518	
	Std. Dev	1.2273	7.0531	1.8983	5.6236	1.8641	8.8034	
	Mean - 3 Sigma	-134.7416	-187.7242	-135.6083	-188.2625	-134.2003	-198.8620	
Mean + 3 Sigma	-127.3779	-145.4059	-124.2185	-154.5212	-123.0155	-146.0415		

		Ios A.Vs+-1.5 Vcm0		Ios B.Vs+-1.5 Vcm0		CMRR A.Vs+-1.5 Vcm+-1.5 V		
		PRE	Post	PRE	Post	PRE	Post	
CTRL	SN	131	-1.493	-2.026	-3.864	-1.699	82.683	82.692
	66	-1.357	-6.152	-1.614	-2.757	78.659	78.539	
	67	-1.401	7.839	0.469	-7.846	78.818	78.784	
	68	-1.200	-3.329	-2.607	-2.153	77.241	77.337	
	69	-0.482	-2.169	-1.199	5.798	79.379	79.109	
	70	-0.404	2.561	-2.669	-11.459	79.727	79.609	
	72	-1.190	5.904	-2.118	0.210	78.297	78.087	
	73	0.177	-14.565	-3.660	-8.786	80.366	80.395	
	115	-1.890	6.085	-3.334	-6.385	78.336	78.345	
	116	-1.923	5.519	-3.353	1.705	81.227	80.921	
	117	-0.275	0.417	-2.739	-3.415	79.657	79.365	
	Min	-1.9235	-14.5645	-3.6602	-11.4591	77.2409	77.3375	
	Max	0.1766	7.8387	0.4691	5.7977	81.2266	80.9212	
	Mean	-0.9946	0.2110	-2.2824	-3.5088	79.1707	79.0491	
	Std. Dev	0.7105	6.9589	1.2397	5.2513	1.1458	1.0758	
Mean - 3 Sigma	-3.1260	-20.6658	-6.0014	-19.2626	75.7333	75.8218		
Mean + 3 Sigma	1.1368	21.0878	1.4366	12.2449	82.6081	82.2764		
2.00E+12	118	0.559	-5.743	-0.139	8.003	81.843	82.092	
	119	-1.662	-15.195	-2.225	3.722	75.000	75.102	
	120	-0.275	-14.314	-3.065	7.346	83.372	83.008	
	121	-0.203	-0.483	-3.923	8.965	79.740	79.687	
	122	0.019	4.996	-1.210	-4.261	77.387	77.280	
	123	-1.589	16.654	-4.203	5.540	76.208	76.055	
	124	-0.823	-17.618	-1.528	13.738	84.643	84.355	
	125	0.554	7.063	-2.968	2.465	82.598	82.131	
	126	-1.127	0.852	-3.130	4.694	83.018	82.464	
	127	0.035	10.028	-2.127	8.655	79.244	79.118	
	Min	-1.6625	-17.6175	-4.2030	-4.2608	75.0004	75.1022	
	Max	0.5589	16.6544	-0.1394	13.7380	84.6433	84.3547	
	Mean	-0.4512	-1.3758	-2.4518	5.8867	80.3055	80.1292	
	Std. Dev	0.8124	11.6140	1.2576	4.7877	3.3015	3.1739	
	Mean - 3 Sigma	-2.8883	-36.2177	-6.2246	-8.4762	70.4010	70.6075	
Mean + 3 Sigma	1.9859	33.4661	1.3210	20.2497	90.2100	89.6509		

		CMRR B.Vs+-1.5 Vcm+-1.5 V		Avo A.Vs+-1.5 Vcm0 R2k Vo+-1.3 V		Avo B.Vs+-1.5 Vcm0 R2k Vo+-1.3 V	
		PRE	Post	PRE	Post	PRE	Post
CTRL	131	92.730	92.751	103.543	103.589	104.206	103.551
	66	82.708	82.846	103.898	102.840	104.104	102.461
	67	90.032	90.347	103.825	102.675	104.403	103.033
	68	91.659	90.742	103.671	102.534	104.017	102.683
	69	111.541	115.701	104.069	102.345	103.992	102.980
	70	80.795	80.722	103.564	102.159	104.272	103.077
	72	92.146	92.460	103.917	102.378	103.661	102.707
	73	83.769	83.748	103.696	102.155	103.993	102.971
	115	86.396	86.757	103.660	102.571	103.653	102.637
	116	115.419	113.197	103.789	102.854	104.105	102.993
	117	88.654	88.106	103.736	102.304	103.997	103.244
	Min	80.7949	80.7222	103.5641	102.1548	103.6527	102.4607
	Max	115.4189	115.7006	104.0686	102.8543	104.4027	103.2444
	Mean	92.3119	92.4627	103.7824	102.4814	104.0197	102.8785
	Std. Dev	11.8113	12.1799	0.1490	0.2555	0.2333	0.2426
Mean - 3 Sigma	56.8781	55.9231	103.3353	101.7147	103.3197	102.1507	
Mean + 3 Sigma	127.7456	129.0024	104.2295	103.2480	104.7197	103.6064	
1.00E+12	118	90.135	89.019	103.749	101.253	104.104	103.335
	119	113.554	105.666	104.081	102.157	103.900	101.659
	120	90.569	89.664	103.887	101.913	104.235	102.207
	121	82.045	82.056	103.640	102.007	104.156	102.359
	122	92.295	93.973	103.944	102.008	103.714	101.458
	123	92.293	91.182	103.786	100.917	104.246	101.947
	124	83.271	83.070	103.782	101.646	103.818	102.036
	125	93.943	92.735	103.863	101.828	104.093	102.459
	126	95.789	95.494	103.713	101.513	103.756	101.645
	127	84.523	84.241	103.814	101.387	104.069	101.489
	Min	82.0447	82.0555	103.6399	100.9174	103.7138	101.4584
	Max	113.5540	105.6661	104.0810	102.1566	104.2463	102.4586
	Mean	91.8417	90.7100	103.8258	101.6628	104.0091	101.9594
	Std. Dev	8.9403	6.9969	0.1251	0.3935	0.1967	0.3769
	Mean - 3 Sigma	65.0208	69.7193	103.4505	100.4824	103.4189	100.8287
Mean + 3 Sigma	118.6627	111.7006	104.2011	102.8431	104.5993	103.0901	

		+Isc A Vs+-1.5 Vcm0		+Isc B Vs+-1.5 Vcm0		-Isc A Vs+-1.5 Vcm0	
		PRE	Post	PRE	Post	PRE	Post
CTRL	131	-10.553	-10.577	-10.540	-10.568	16.366	16.381
	66	-10.578	-10.420	-10.509	-10.330	16.441	15.949
	67	-10.640	-10.470	-10.666	-10.505	16.488	15.984
	68	-10.534	-10.392	-10.578	-10.439	16.425	15.927
	69	-10.622	-10.464	-10.521	-10.352	16.479	15.977
	70	-10.593	-10.439	-10.525	-10.383	16.350	15.871
	72	-10.459	-10.301	-10.543	-10.383	16.438	15.933
	73	-10.528	-10.377	-10.550	-10.389	16.413	15.896
	115	-10.528	-10.389	-10.637	-10.477	16.388	15.896
	116	-10.631	-10.486	-10.581	-10.433	16.438	15.965
	117	-10.487	-10.336	-10.684	-10.527	16.375	15.893
	Min	-10.6405	-10.4861	-10.6843	-10.5268	16.3503	15.8709
	Max	-10.4588	-10.3014	-10.5089	-10.3296	16.4881	15.9836
	Mean	-10.5600	-10.4076	-10.5794	-10.4216	16.4236	15.9291
	Std. Dev	0.0624	0.0600	0.0626	0.0658	0.0435	0.0393
Mean - 3 Sigma	-10.7473	-10.5877	-10.7672	-10.6189	16.2932	15.8112	
Mean + 3 Sigma	-10.3727	-10.2274	-10.3915	-10.2243	16.5540	16.0470	
1.00E+12	118	-10.481	-10.182	-10.600	-10.301	16.407	15.505
	119	-10.547	-10.251	-10.615	-10.298	16.435	15.552
	120	-10.709	-10.395	-10.578	-10.267	16.416	15.498
	121	-10.490	-10.157	-10.531	-10.283	16.325	15.448
	122	-10.468	-10.164	-10.500	-10.201	16.485	15.570
	123	-10.518	-10.226	-10.484	-10.164	16.372	15.476
	124	-10.534	-10.217	-10.515	-10.204	16.416	15.505
	125	-10.612	-10.305	-10.553	-10.245	16.410	15.511
	126	-10.487	-10.182	-10.537	-10.245	16.379	15.498
	127	-10.706	-10.402	-10.550	-10.270	16.400	15.573
	Min	-10.7093	-10.4016	-10.6154	-10.3014	16.3253	15.4483
	Max	-10.4682	-10.1574	-10.4839	-10.1637	16.4850	15.5735
	Mean	-10.5553	-10.2482	-10.5462	-10.2479	16.4045	15.5137
	Std. Dev	0.0905	0.0906	0.0422	0.0455	0.0418	0.0402
	Mean - 3 Sigma	-10.8268	-10.5200	-10.6729	-10.3845	16.2792	15.3932
Mean + 3 Sigma	-10.2838	-9.9765	-10.4195	-10.1114	16.5298	15.6343	

		-Isc B Vs+1.5 Vcm0		PSRR A.Vs+2_+18 V		PSRR B.Vs+2_+18 V		
		SN	PRE	Post	PRE	Post	PRE	Post
CTRL	131	16.316	16.334	125.008	124.945	121.755	121.619	
	66	16.357	15.830	124.445	125.266	125.261	125.312	
	67	16.385	15.883	124.337	124.585	122.764	123.456	
	68	16.300	15.811	125.380	126.300	124.244	124.142	
	69	16.366	15.852	126.132	124.746	122.761	123.230	
	70	16.306	15.786	122.698	122.919	122.298	122.352	
	72	16.350	15.830	124.225	126.132	121.245	120.623	
	73	16.328	15.815	129.268	129.774	121.486	122.293	
	115	16.285	15.786	127.139	128.410	124.430	125.610	
	116	16.357	15.861	125.190	124.777	120.596	120.443	
	117	16.294	15.815	126.892	126.837	122.143	123.345	
	Min	16.2846	15.7864	122.6976	122.9190	120.5956	120.4426	
	Max	16.3848	15.8834	129.2681	129.7737	125.2610	125.6104	
	Mean	16.3328	15.8270	125.5705	125.9746	122.7226	123.0806	
	Std. Dev	0.0347	0.0314	1.8628	1.9986	1.5065	1.7285	
Mean - 3 Sigma	16.2286	15.7328	119.9822	119.9786	118.2031	117.8951		
Mean + 3 Sigma	16.4370	15.9213	131.1588	131.9705	127.2422	128.2661		
1.00E+12	118	16.335	15.417	124.477	129.510	121.296	119.944	
	119	16.325	15.439	126.369	128.362	121.700	122.067	
	120	16.357	15.401	122.749	122.617	122.675	123.545	
	121	16.253	15.389	124.510	125.780	121.823	121.418	
	122	16.341	15.436	125.081	126.476	122.265	121.155	
	123	16.285	15.373	126.239	125.062	120.816	120.049	
	124	16.316	15.417	125.524	128.302	121.599	121.323	
	125	16.328	15.414	126.908	125.997	123.546	122.508	
	126	16.285	15.373	124.965	124.713	121.940	123.265	
	127	16.357	15.483	126.752	128.555	121.833	122.192	
	Min	16.2533	15.3732	122.7489	122.6173	120.8158	119.9445	
	Max	16.3566	15.4827	126.9082	129.5097	123.5463	123.5447	
	Mean	16.3181	15.4142	125.3574	126.5373	121.9493	121.7467	
	Std. Dev	0.0340	0.0333	1.2782	2.1368	0.7530	1.2105	
	Mean - 3 Sigma	16.2162	15.3143	121.5227	120.1269	119.6904	118.1151	
Mean + 3 Sigma	16.4199	15.5140	129.1921	132.9477	124.2082	125.3783		

		PSRR A.Vs+1.25_+1.75 V		PSRR B.Vs+1.25_+1.75 V		
		SN	PRE	Post	PRE	Post
CTRL	131	110.126	109.939	109.246	108.917	
	66	109.219	110.309	111.700	111.371	
	67	111.247	112.273	109.807	109.602	
	68	108.916	109.421	112.384	112.858	
	69	110.346	107.850	111.044	111.776	
	70	108.423	108.951	110.225	109.113	
	72	108.949	109.440	110.180	110.080	
	73	111.009	111.895	110.323	110.015	
	115	110.975	112.117	112.564	114.976	
	116	109.613	110.861	109.243	108.985	
	117	112.195	111.555	110.522	111.765	
	Min	108.4228	107.8497	109.2433	108.9852	
	Max	112.1952	112.2731	112.5644	114.9761	
	Mean	110.0892	110.4672	110.7994	111.0542	
	Std. Dev	1.2432	1.5161	1.1015	1.8840	
Mean - 3 Sigma	106.3596	105.9190	107.4947	105.4022		
Mean + 3 Sigma	113.8189	115.0154	114.1040	116.7062		
1.00E+12	118	108.782	111.139	110.785	112.692	
	119	110.371	110.949	110.522	110.813	
	120	108.486	110.135	112.636	116.480	
	121	109.320	112.199	112.085	111.266	
	122	110.429	112.892	109.487	107.829	
	123	109.775	112.976	109.763	108.542	
	124	110.261	114.601	110.228	110.252	
	125	110.875	109.582	111.607	109.633	
	126	108.760	110.435	109.979	110.891	
	127	110.442	111.174	111.018	111.720	
	Min	108.4860	109.5820	109.4874	107.8285	
	Max	110.8749	114.6009	112.6362	116.4797	
	Mean	109.7501	111.6080	110.8111	111.0117	
	Std. Dev	0.8533	1.5391	1.0327	2.4049	
	Mean - 3 Sigma	107.1901	106.9908	107.7129	103.7969	
Mean + 3 Sigma	112.3102	116.2252	113.9092	118.2265		











































