WREB Functional Test Report

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Board ID.....................0x123b55b6
Board Type...................b
Link Version.................020
Front-end FPGA Code Version...0020
Script Version...............16.07.29.12.07
Test Performed...............2016-07-29 12:08:19
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Status	Test	Results
N/A	Idle Current	N/A
PASS	Channel Comms	0/36 channels missing.
PASS	ASPIC Comms	1/1 ASPICS communicating.
N/A	CS Gate Test	N/A
PASS	PCK Rails	LV Gain: 0.998649. UV Gain: 1.002174. 62/62 values okay.
PASS	SCK Rails	LV Gain: 0.992314. UV Gain: 0.998612. 50/50 values okay.
PASS	RG Rails	LV Gain: 0.998126. UV Gain: 0.993884. 50/50 values okay.
PASS	Diverging SCK Rails, 0V	LV Gain: 0.994819. UV Gain: 0.999887. 38/38 values okay.
PASS	Diverging SCK Rails, 2V	LV Gain: 0.989532. UV Gain: 1.007080. 38/38 values okay.
PASS	Diverging SCK Rails, -2V	LV Gain: 0.997162. UV Gain: 0.997925. 38/38 values okay.
PASS	Diverging RG Rails, 0V	LV Gain: 1.001594. UV Gain: 0.994183. 38/38 values okay.
PASS	Diverging RG Rails, 2V	LV Gain: 0.997925. UV Gain: 0.996399. 38/38 values okay.
PASS	Diverging RG Rails, -2V	LV Gain: 0.991211. UV Gain: 0.992126. 38/38 values okay.
PASS	OG Bias Test	Gain: 0.991660. 21/21 values okay.
PASS	OD Bias Test	Gain: 1.003161. 16/16 values okay.
PASS	GD Bias Test	Gain: 0.998254. 16/16 values okay.
PASS	RD Bias Test	Gain: 1.001436. 16/16 values okay.
N/A	Board Temperature	N/A
PASS	ASPIC Noise Tests	48/48 channels within sigma<5.5.

Idle Current Test

Channel	Voltage	Channel	Current
DigPS_V	4.925	DigPS_I	642.5
AnaPS_V	6.975	AnaPS_I	320.5
ODPS_V	26.0028	ODPS_I	2.0854
ClkHPS_V	9.0	ClkHPS_I	32.75
DphiPS_V	0.0	DphiPS_I	0.0
HtrPS_V	8.025	HtrPS_I	1.25

Channel Communications Test

Channel	Value
WREB.Temp1	38.1875
WREB.Temp2	40.375
WREB.Temp3	34.0
WREB.Temp4	39.8125
WREB.Temp5	36.75
WREB.Temp6	36.4375
WREB.Atemp0U	-128.4894
WREB.Atemp0L	-128.3137
WREB.CCDtemp	2857.1427
WREB.RTDtemp	2857.1427
WREB.DigPS_V	4.925
WREB.DigPS_I	642.5
WREB.AnaPS_V	6.975
WREB.AnaPS_I	320.5
WREB.ODPS_V	31.05
WREB.ODPS_I	6.25
WREB.ClkHPS_V	9.0
WREB.ClkHPS_I	32.75
WREB.DphiPS_V	0.0
WREB.DphiPS_I	0.0
WREB.HtrPS_V	8.025
WREB.HtrPS_I	1.25
WREB.VREF25	2.4947
WREB.OD_V	26.0028
WREB.OD_I	1.6785
WREB.OG_V	-2.4271
WREB.RD_V	11.563
WREB.GD_V	25.8618
WREB.CKP_V	-8.0449
WREB.CKPSH_V	-8.0254
WREB.CKS_V	4.171
WREB.SCKU_V	4.1565
WREB.SCKL_V	-4.0421
WREB.RG_V	8.0298
WREB.RGU_V	8.0055
WREB.RGL_V	-1.9348

ASPIC Communications Test

Test PASS. 1/1 ASPICS communicating.
ccs-cr.checkAsics result: [0]

CSGate Test
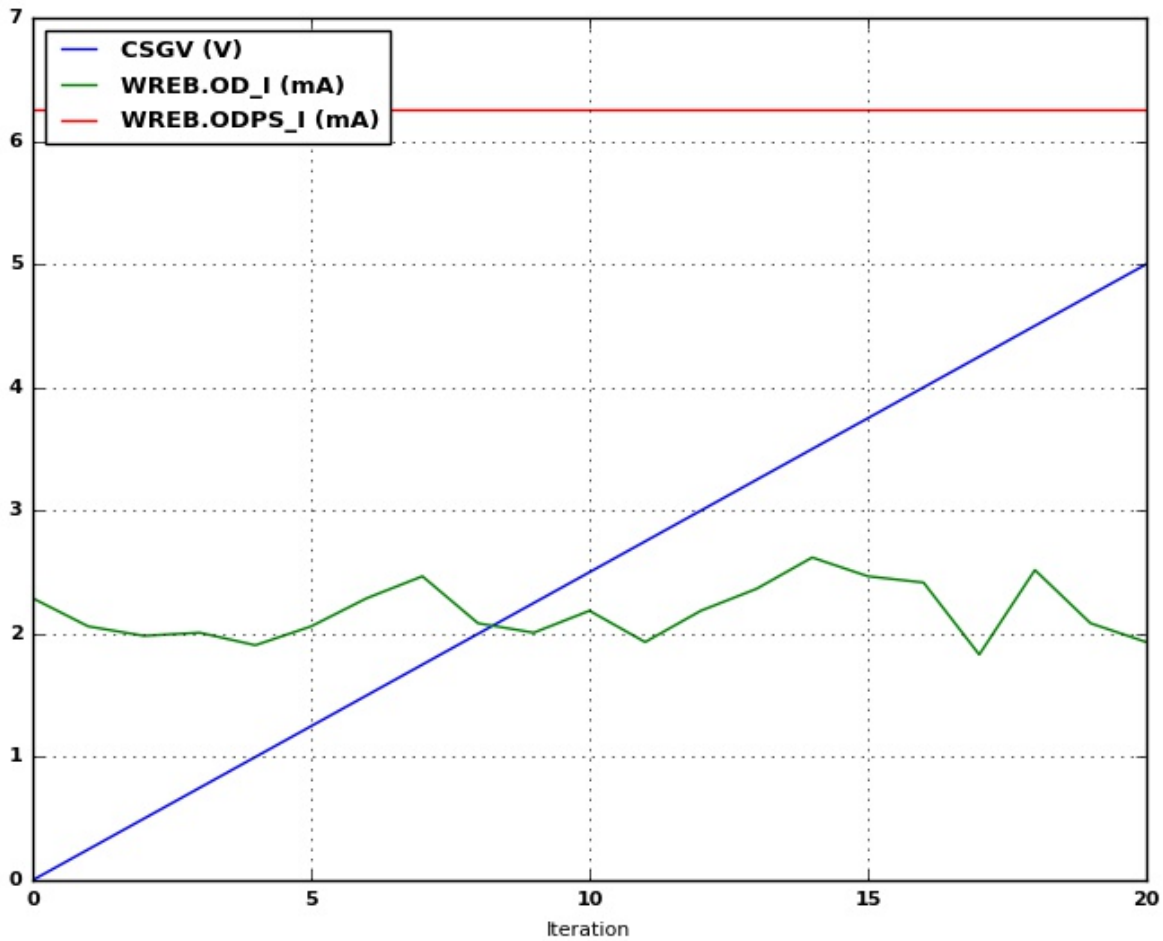
| CSGV (V)	WREB.OD_I (mA)	WREB.ODPS_I (mA)
0	2.2888	6.25
0.25	2.0599	6.25
0.5	1.9836	6.25
0.75	2.0091	6.25
1.0	1.9073	6.25
1.25	2.0599	6.25
1.5	2.2888	6.25
1.75	2.4668	6.25
2.0	2.0854	6.25
2.25	2.0091	6.25
2.5	2.1871	6.25
2.75	1.9328	6.25
3.0	2.1871	6.25
3.25	2.3651	6.25
3.5	2.6194	6.25
3.75	2.4668	6.25
4.0	2.416	6.25
4.25	1.8311	6.25
4.5	2.5177	6.25
4.75	2.0854	6.25
5.0	1.9328	6.25

PCK Rails Test
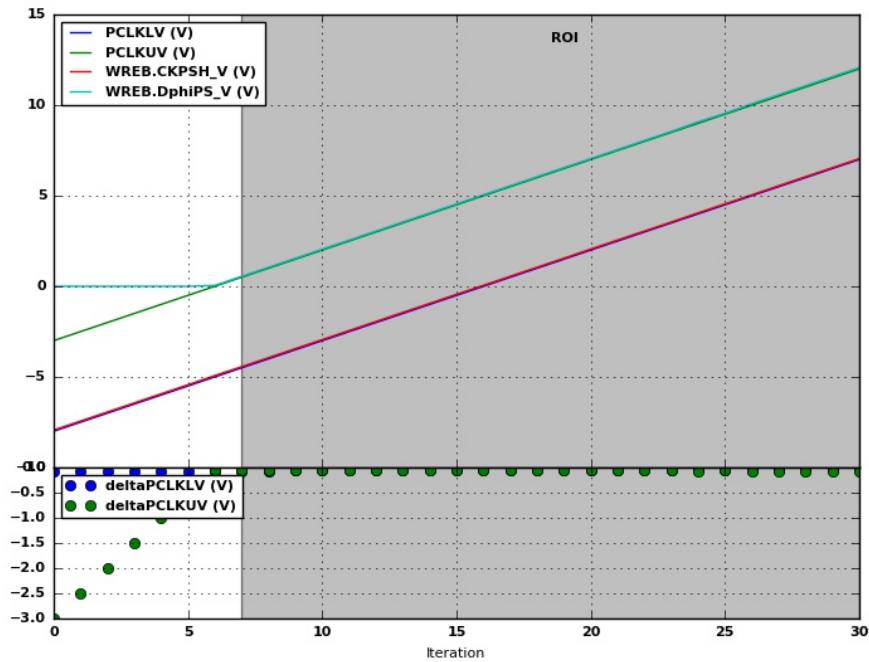
LV Gain: 0.998649. UV Gain: 1.002174. 62/62 values okay.

Test PASSED.

| PCLKLV (V)	PCLKUV (V)	WREB.CKPSH_V (V)	WREB.DphiPS_V (V)	deltaPCLKLV (V)	deltaPCLKUV (V)
-8.0	-3.0	-7.9338	0.0	-0.0662	-3.0
-7.5	-2.5	-7.4364	0.0	-0.0636	-2.5
-7.0	-2.0	-6.9359	0.0	-0.0641	-2.0
-6.5	-1.5	-6.4362	0.0	-0.0638	-1.5
-6.0	-1.0	-5.9334	0.0	-0.0666	-1.0
-5.5	-0.5	-5.4337	0.0	-0.0663	-0.5
-5.0	0.0	-4.9271	0.05	-0.0729	-0.05
-4.5	0.5	-4.435	0.55	-0.065	-0.05
-4.0	1.0	-3.9368	1.05	-0.0632	-0.05
-3.5	1.5	-3.4378	1.55	-0.0622	-0.05
-3.0	2.0	-2.9396	2.05	-0.0604	-0.05
-2.5	2.5	-2.4422	2.55	-0.0578	-0.05
-2.0	3.0	-1.9409	3.05	-0.0591	-0.05
-1.5	3.5	-1.4397	3.55	-0.0603	-0.05
-1.0	4.0	-0.9415	4.05	-0.0585	-0.05
-0.5	4.5	-0.441	4.55	-0.059	-0.05
0.0	5.0	0.0542	5.05	-0.0542	-0.05
0.5	5.5	0.5516	5.55	-0.0516	-0.05
1.0	6.0	1.0536	6.05	-0.0536	-0.05
1.5	6.5	1.5495	6.55	-0.0495	-0.05
2.0	7.0	2.0561	7.05	-0.0561	-0.05
2.5	7.5	2.5566	7.55	-0.0566	-0.05
3.0	8.0	3.0502	8.05	-0.0502	-0.05
3.5	8.5	3.5484	8.55	-0.0484	-0.05
4.0	9.0	4.0543	9.075	-0.0543	-0.075
4.5	9.5	4.5494	9.55	-0.0494	-0.05
5.0	10.0	5.0499	10.075	-0.0499	-0.075
5.5	10.5	5.5496	10.575	-0.0496	-0.075
6.0	11.0	6.0524	11.075	-0.0524	-0.075
6.5	11.5	6.5475	11.575	-0.0475	-0.075
7.0	12.0	7.048	12.075	-0.048	-0.075

SCK Rails Test
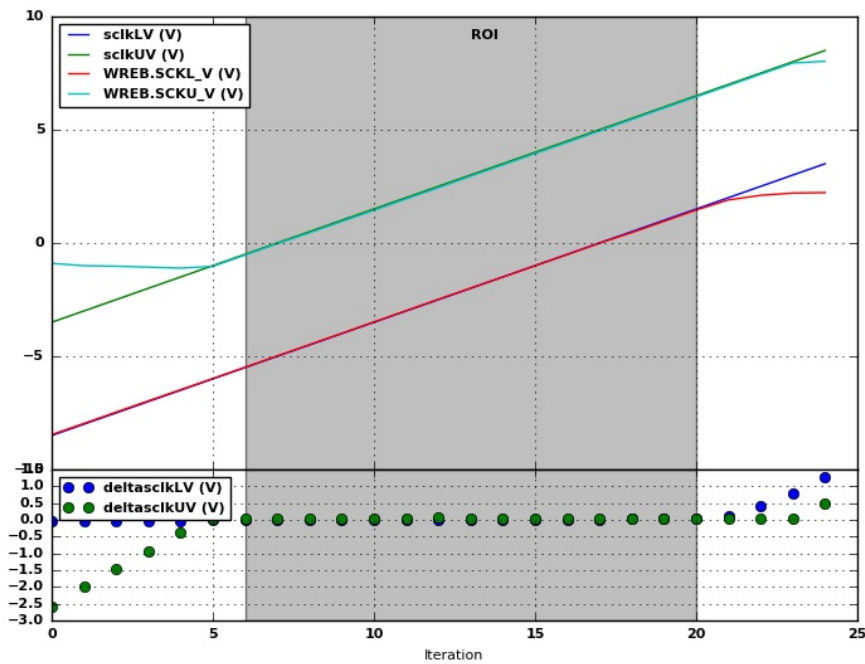
LV Gain: 0.992314.   UV Gain: 0.998612.   50/50 values okay.

Test PASSED.

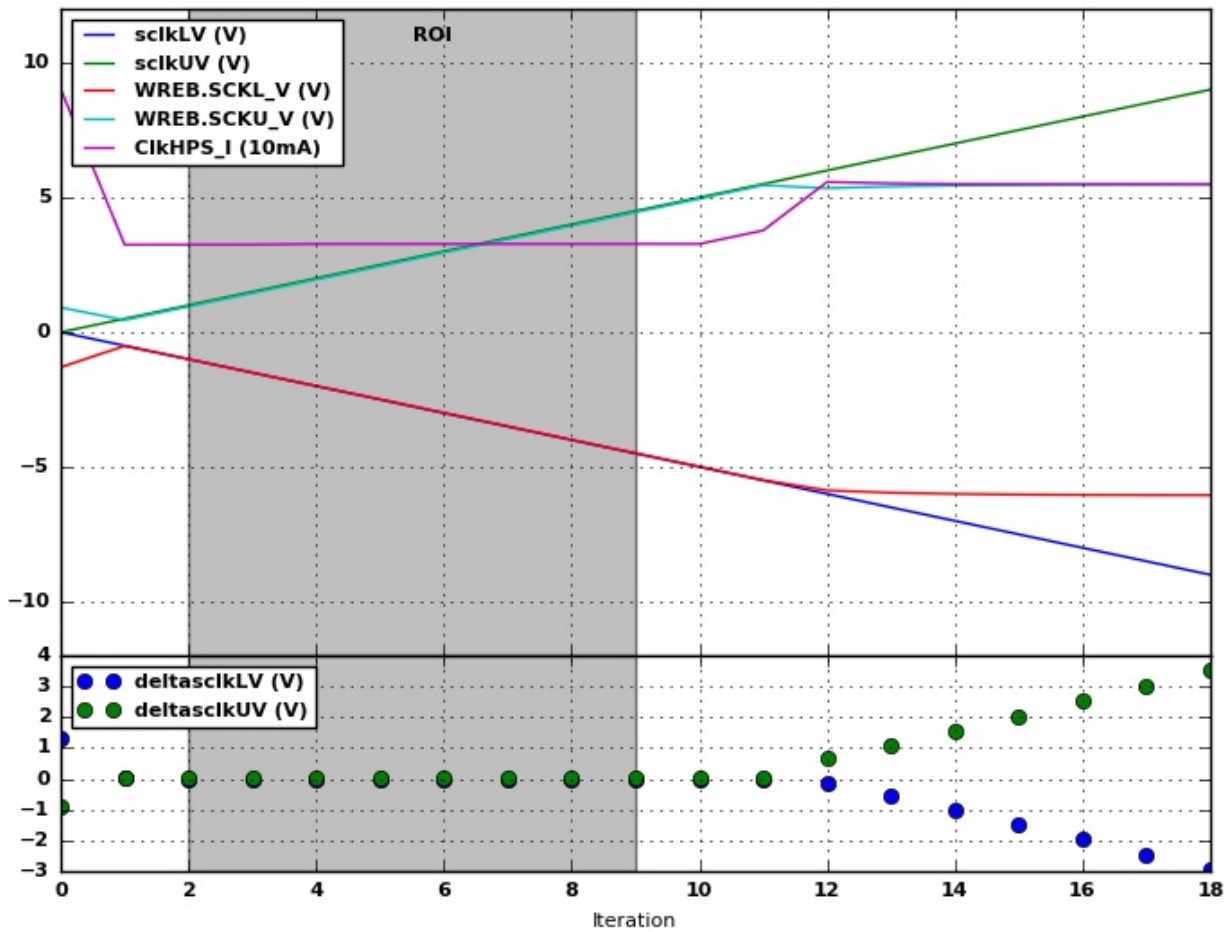| sclkLV (V)	sclkUV (V)	WREB.SCKL_V (V)	WREB.SCKU_V (V)	deltasclkLV (V)	deltasclkUV (V)
-8.5	-3.5	-8.461	-0.8987	-0.039	-2.6013
-8.0	-3.0	-7.9681	-1.0033	-0.0319	-1.9967
-7.5	-2.5	-7.4669	-1.0239	-0.0331	-1.4761
-7.0	-2.0	-6.9725	-1.0666	-0.0275	-0.9334
-6.5	-1.5	-6.4789	-1.107	-0.0211	-0.393
-6.0	-1.0	-5.9845	-1.03	-0.0155	0.03
-5.5	-0.5	-5.4863	-0.5318	-0.0137	0.0318
-5.0	0.0	-4.9873	-0.0298	-0.0127	0.0298
-4.5	0.5	-4.4884	0.4509	-0.0116	0.0491
-4.0	1.0	-3.9917	0.9499	-0.0083	0.0501
-3.5	1.5	-3.4874	1.445	-0.0126	0.055
-3.0	2.0	-2.9892	1.9485	-0.0108	0.0515
-2.5	2.5	-2.4864	2.4437	-0.0136	0.0563
-2.0	3.0	-1.9943	2.9518	-0.0057	0.0482
-1.5	3.5	-1.5022	3.4492	0.0022	0.0508
-1.0	4.0	-1.004	3.9474	0.004	0.0526
-0.5	4.5	-0.5104	4.4487	0.0104	0.0513
0.0	5.0	-0.0069	4.95	0.0069	0.05
0.5	5.5	0.4608	5.4543	0.0392	0.0457
1.0	6.0	0.956	5.957	0.044	0.043
1.5	6.5	1.4557	6.4507	0.0443	0.0493
2.0	7.0	1.9005	6.9496	0.0995	0.0504
2.5	7.5	2.1042	7.4524	0.3958	0.0476
3.0	8.0	2.2049	7.9453	0.7951	0.0547
3.5	8.5	2.2232	8.0238	1.2768	0.4762

RG Rails Test
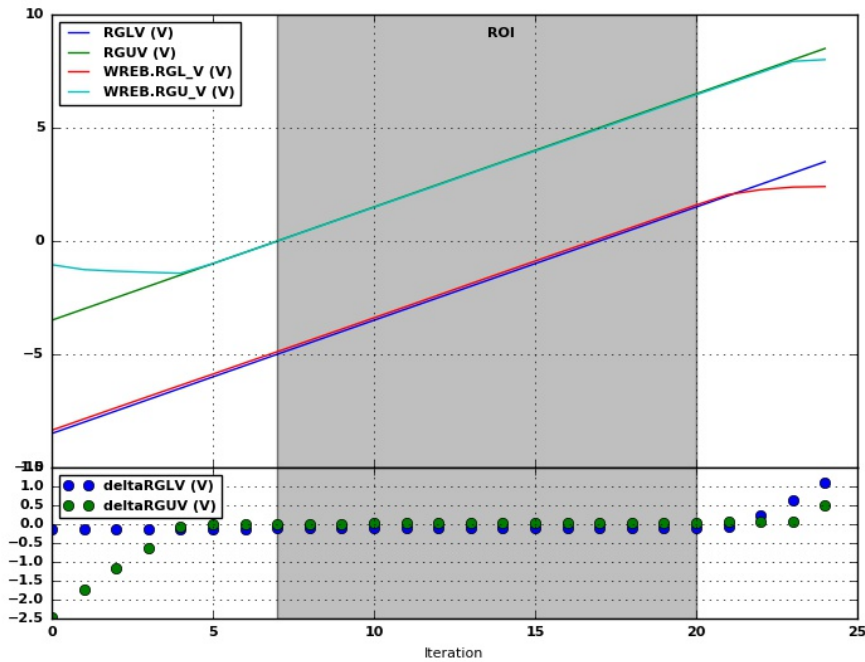
LV Gain: 0.998126.   UV Gain: 0.993884.   50/50 values okay.

Test PASSED.

| RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	deltaRGLV (V)	deltaRGUV (V)
-8.5	-3.5	-8.3572	-1.0468	-0.1428	-2.4532
-8.0	-3.0	-7.8598	-1.2627	-0.1402	-1.7373
-7.5	-2.5	-7.3624	-1.3329	-0.1376	-1.1671
-7.0	-2.0	-6.8665	-1.3809	-0.1335	-0.6191
-6.5	-1.5	-6.3705	-1.4244	-0.1295	-0.0756
-6.0	-1.0	-5.88	-0.9979	-0.12	-0.0021
-5.5	-0.5	-5.3795	-0.5066	-0.1205	0.0066
-5.0	0.0	-4.8874	-0.0137	-0.1126	0.0137
-4.5	0.5	-4.3892	0.4898	-0.1108	0.0102
-4.0	1.0	-3.8925	0.985	-0.1075	0.015
-3.5	1.5	-3.3936	1.4824	-0.1064	0.0176
-3.0	2.0	-2.8938	1.9775	-0.1062	0.0225
-2.5	2.5	-2.3911	2.475	-0.1089	0.025
-2.0	3.0	-1.8875	2.977	-0.1125	0.023
-1.5	3.5	-1.387	3.476	-0.113	0.024
-1.0	4.0	-0.8873	3.9658	-0.1127	0.0342
-0.5	4.5	-0.3899	4.4617	-0.1101	0.0383
0.0	5.0	0.1015	4.9553	-0.1015	0.0447
0.5	5.5	0.5981	5.4543	-0.0981	0.0457
1.0	6.0	1.0941	5.957	-0.0941	0.043
1.5	6.5	1.59	6.4537	-0.09	0.0463
2.0	7.0	2.0515	6.9466	-0.0515	0.0534
2.5	7.5	2.2644	7.4387	0.2356	0.0613
3.0	8.0	2.3804	7.933	0.6196	0.067
3.5	8.5	2.4025	8.0086	1.0975	0.4914

Diverging SCKRails Test 0 V

LV Gain: 0.994819.   UV Gain: 0.999887.   38/38 values okay.
Test PASSED.

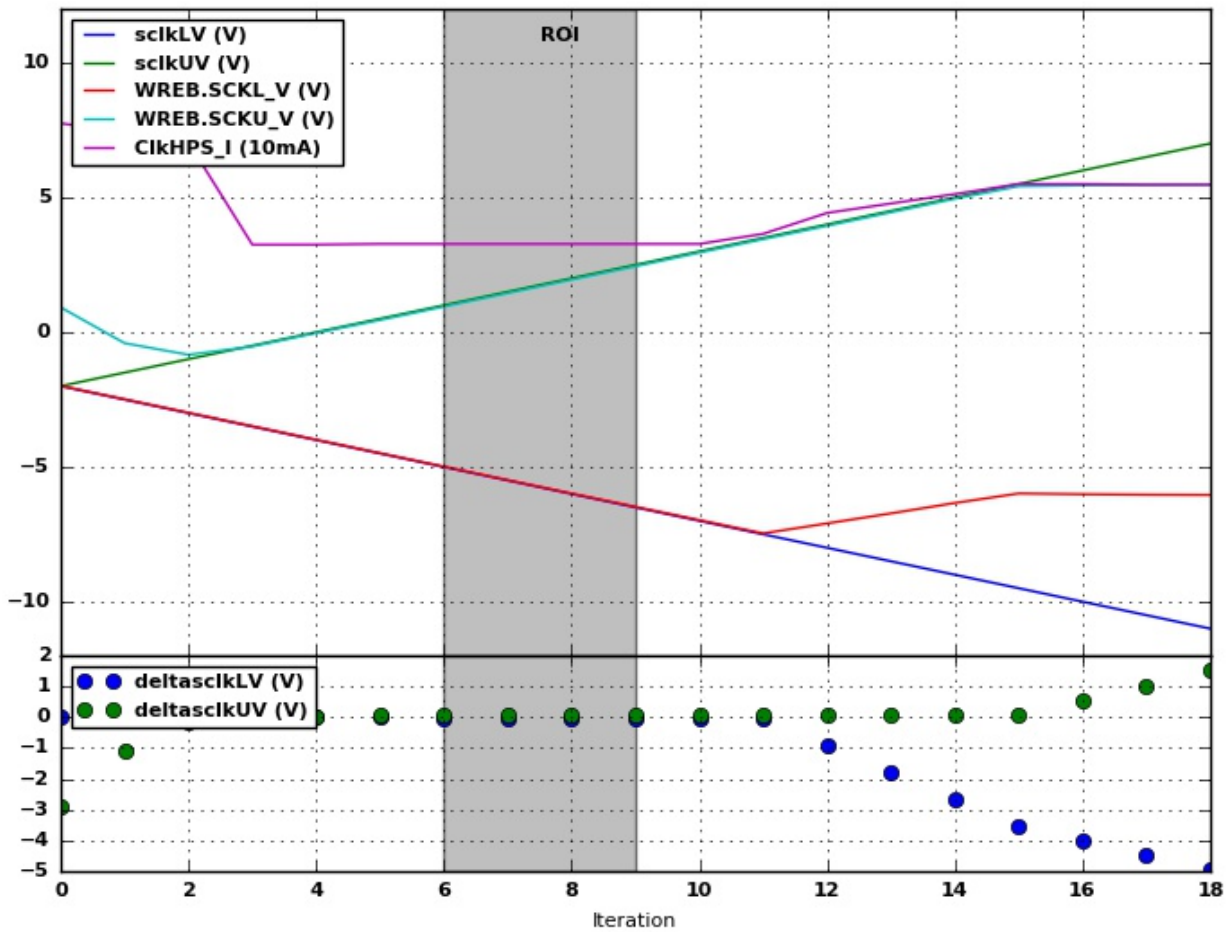| sclkLV (V)	sclkUV (V)	WREB.SCKL_V (V)	WREB.SCKU_V (V)	ClkHPS_I (10mA)	deltasclkLV (V)	deltasclkUV (V)
0.0	0.0	-1.3008	0.9155	9.025	1.3008	-0.9155
-0.5	0.5	-0.5104	0.4501	3.25	0.0104	0.0499
-1.0	1.0	-1.004	0.9506	3.25	0.004	0.0494
-1.5	1.5	-1.5022	1.4465	3.25	0.0022	0.0535
-2.0	2.0	-1.9951	1.9485	3.275	-0.0049	0.0515
-2.5	2.5	-2.4879	2.4445	3.275	-0.0121	0.0555
-3.0	3.0	-2.9892	2.9518	3.275	-0.0108	0.0482
-3.5	3.5	-3.4874	3.45	3.275	-0.0126	0.05
-4.0	4.0	-3.9917	3.9467	3.275	-0.0083	0.0533
-4.5	4.5	-4.4868	4.4464	3.275	-0.0132	0.0536
-5.0	5.0	-4.9866	4.95	3.275	-0.0134	0.05
-5.5	5.5	-5.4863	5.4543	3.775	-0.0137	0.0457
-6.0	6.0	-5.8693	5.3421	5.575	-0.1307	0.6579
-6.5	6.5	-5.957	5.4054	5.525	-0.543	1.0946
-7.0	7.0	-5.9998	5.4413	5.5	-1.0002	1.5587
-7.5	7.5	-6.0242	5.4565	5.5	-1.4758	2.0435
-8.0	8.0	-6.0379	5.4665	5.5	-1.9621	2.5335
-8.5	8.5	-6.0432	5.471	5.5	-2.4568	3.029
-9.0	9.0	-6.0471	5.4741	5.5	-2.9529	3.5259

Diverging SCKRails Test 2 V
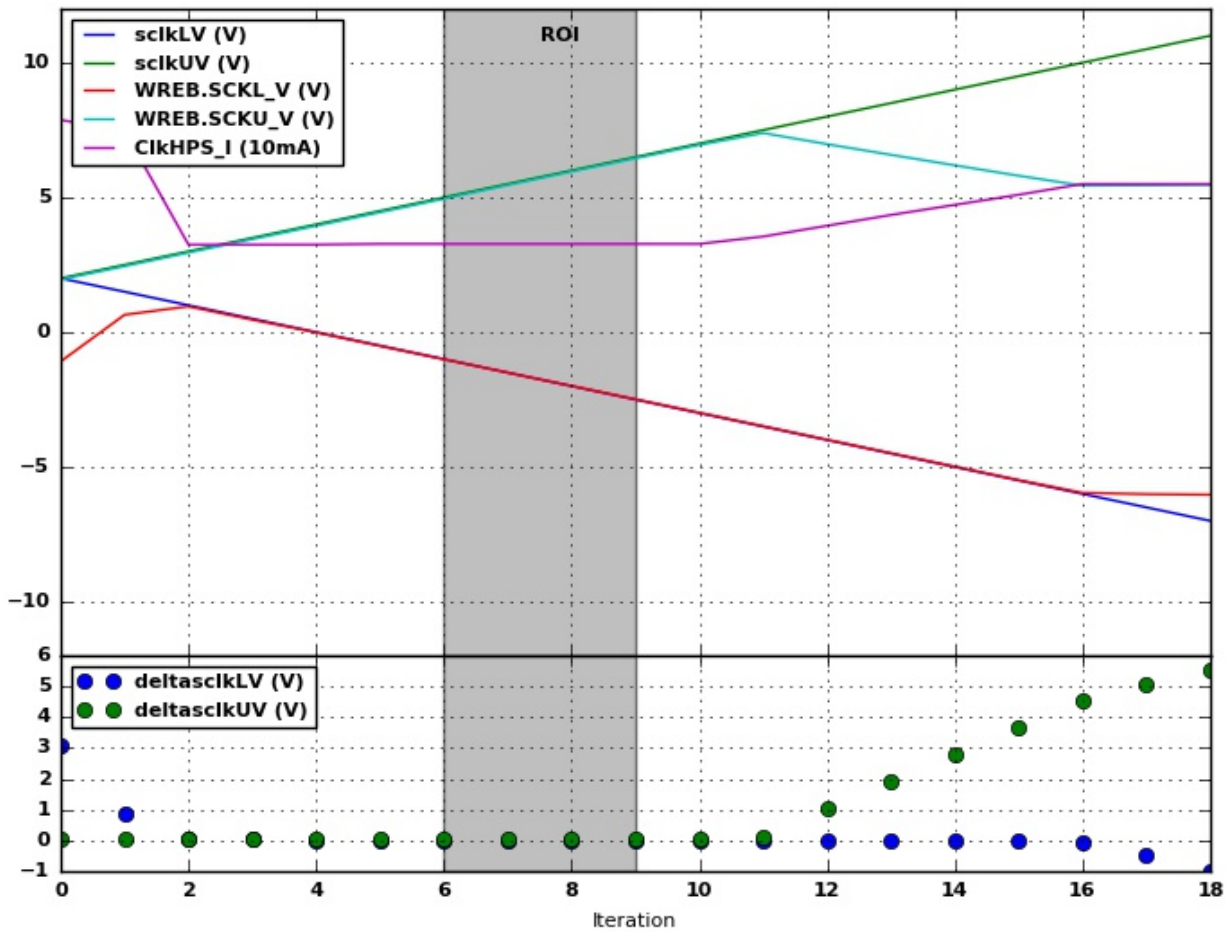
LV Gain: 0.989532.   UV Gain: 1.007080.   38/38 values okay.

Test PASSED.

| sclkLV (V)	sclkUV (V)	WREB.SCKL_V (V)	WREB.SCKU_V (V)	ClkHPS_I (10mA)	deltasclkLV (V)	deltasclkUV (V)
2.0	2.0	-1.0872	1.9516	7.875	3.0872	0.0484
1.5	2.5	0.6454	2.4467	7.475	0.8546	0.0533
1.0	3.0	0.9567	2.9503	3.25	0.0433	0.0497
0.5	3.5	0.4608	3.4492	3.25	0.0392	0.0508
0.0	4.0	-0.0069	3.9467	3.25	0.0069	0.0533
-0.5	4.5	-0.5104	4.4464	3.275	0.0104	0.0536
-1.0	5.0	-1.0056	4.95	3.275	0.0056	0.05
-1.5	5.5	-1.5022	5.455	3.275	0.0022	0.045
-2.0	6.0	-1.9951	5.957	3.275	-0.0049	0.043
-2.5	6.5	-2.4872	6.4507	3.275	-0.0128	0.0493
-3.0	7.0	-2.9884	6.9489	3.275	-0.0116	0.0511
-3.5	7.5	-3.4874	7.3898	3.55	-0.0126	0.1102
-4.0	8.0	-3.9909	6.9771	3.95	-0.0091	1.0229
-4.5	8.5	-4.4884	6.5819	4.35	-0.0116	1.9181
-5.0	9.0	-4.9858	6.192	4.725	-0.0142	2.808
-5.5	9.5	-5.4871	5.8052	5.1	-0.0129	3.6948
-6.0	10.0	-5.9608	5.439	5.5	-0.0392	4.561
-6.5	10.5	-6.0097	5.4497	5.5	-0.4903	5.0503
-7.0	11.0	-6.0287	5.4634	5.5	-0.9713	5.5366

Diverging SCKRails Test -2 V

LV Gain: 0.997162.   UV Gain: 0.997925.   38/38 values okay.

Test PASSED.

| sclkLV (V)	sclkUV (V)	WREB.SCKL_V (V)	WREB.SCKU_V (V)	ClkHPS_I (10mA)	deltasclkLV (V)	deltasclkUV (V)
-2.0	-2.0	-1.9951	0.9216	7.75	-0.0049	-2.9216
-2.5	-1.5	-2.4872	-0.4066	7.425	-0.0128	-1.0934
-3.0	-1.0	-2.99	-0.8369	7.05	-0.01	-0.1631
-3.5	-0.5	-3.4874	-0.5318	3.25	-0.0126	0.0318
-4.0	0.0	-3.9909	-0.0305	3.25	-0.0091	0.0305
-4.5	0.5	-4.4876	0.4517	3.275	-0.0124	0.0483
-5.0	1.0	-4.9873	0.9499	3.275	-0.0127	0.0501
-5.5	1.5	-5.4863	1.4465	3.275	-0.0137	0.0535
-6.0	2.0	-5.9845	1.9478	3.275	-0.0155	0.0522
-6.5	2.5	-6.4781	2.4437	3.275	-0.0219	0.0563
-7.0	3.0	-6.971	2.9518	3.275	-0.029	0.0482
-7.5	3.5	-7.4669	3.4508	3.65	-0.0331	0.0492
-8.0	4.0	-7.0953	3.9467	4.425	-0.9047	0.0533
-8.5	4.5	-6.723	4.4472	4.775	-1.777	0.0528
-9.0	5.0	-6.3377	4.9507	5.125	-2.6623	0.0493
-9.5	5.5	-5.9845	5.4161	5.5	-3.5155	0.0839
-10.0	6.0	-6.0127	5.4474	5.5	-3.9873	0.5526
-10.5	6.5	-6.0303	5.4626	5.475	-4.4697	1.0374
-11.0	7.0	-6.0394	5.4726	5.475	-4.9606	1.5274

Diverging RGRails Test 0 V
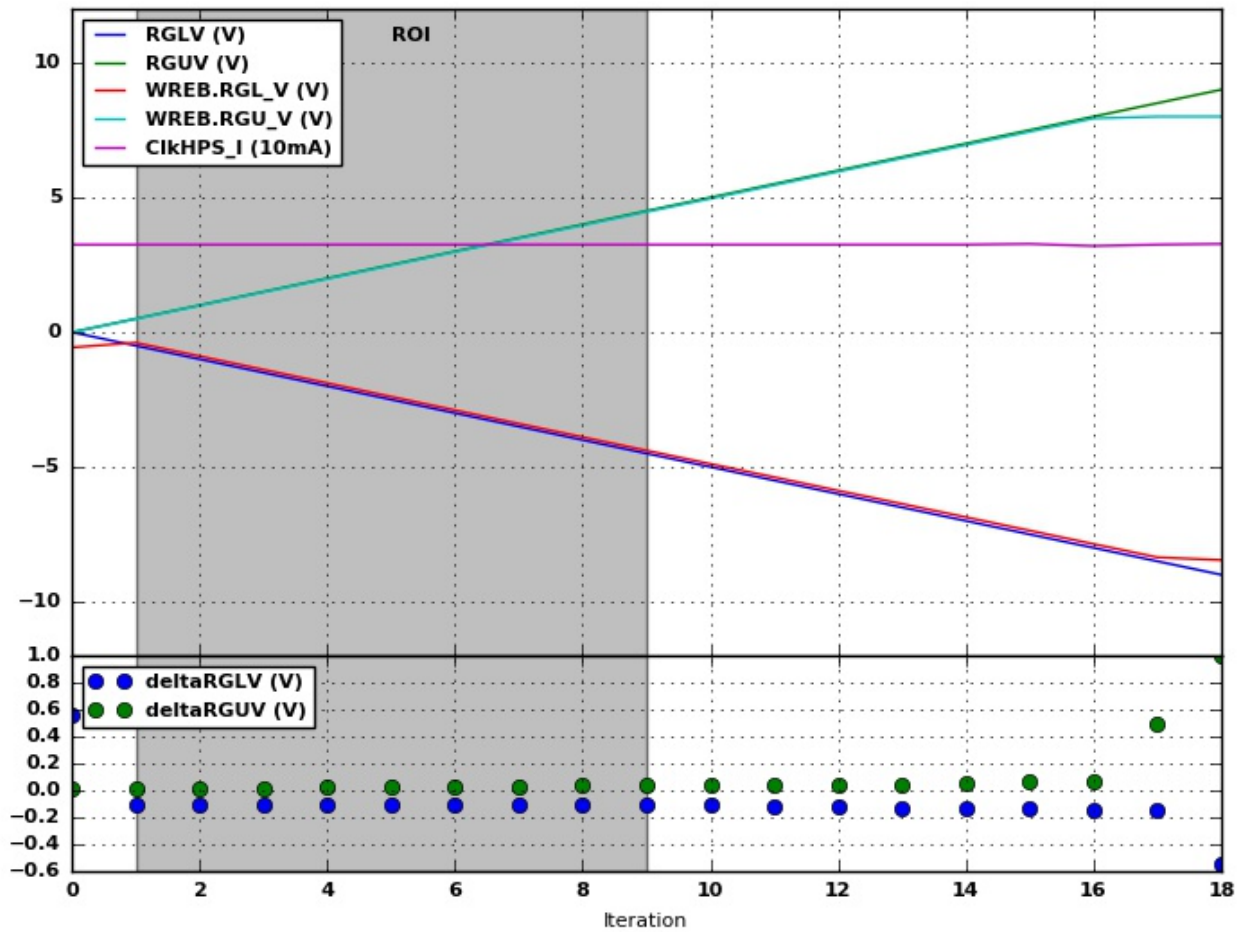
LV Gain: 1.001594.   UV Gain: 0.994183.   38/38 values okay.

Test PASSED.

RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	ClkHPS_I (10mA)	deltaRGLV (V)	deltaRGUV (V)
0.0	0.0	-0.5653	-0.0107	3.25	0.5653	0.0107
-0.5	0.5	-0.3899	0.4898	3.25	-0.1101	0.0102
-1.0	1.0	-0.8873	0.985	3.25	-0.1127	0.015
-1.5	1.5	-1.387	1.4824	3.25	-0.113	0.0176
-2.0	2.0	-1.8875	1.9783	3.25	-0.1125	0.0217
-2.5	2.5	-2.3918	2.4742	3.25	-0.1082	0.0258
-3.0	3.0	-2.8931	2.9778	3.25	-0.1069	0.0222
-3.5	3.5	-3.3936	3.4744	3.25	-0.1064	0.0256
-4.0	4.0	-3.8918	3.965	3.25	-0.1082	0.035
-4.5	4.5	-4.39	4.4624	3.25	-0.11	0.0376
-5.0	5.0	-4.8874	4.9561	3.25	-0.1126	0.0439
-5.5	5.5	-5.3802	5.4543	3.25	-0.1198	0.0457
-6.0	6.0	-5.8792	5.9578	3.25	-0.1208	0.0422
-6.5	6.5	-6.3705	6.4537	3.25	-0.1295	0.0463
-7.0	7.0	-6.8649	6.9466	3.25	-0.1351	0.0534
-7.5	7.5	-7.3624	7.4394	3.275	-0.1376	0.0606
-8.0	8.0	-7.8598	7.933	3.2	-0.1402	0.067
-8.5	8.5	-8.3557	8.0009	3.25	-0.1443	0.4991
-9.0	9.0	-8.4541	8.0017	3.275	-0.5459	0.9983

Diverging RGRails Test 2 V
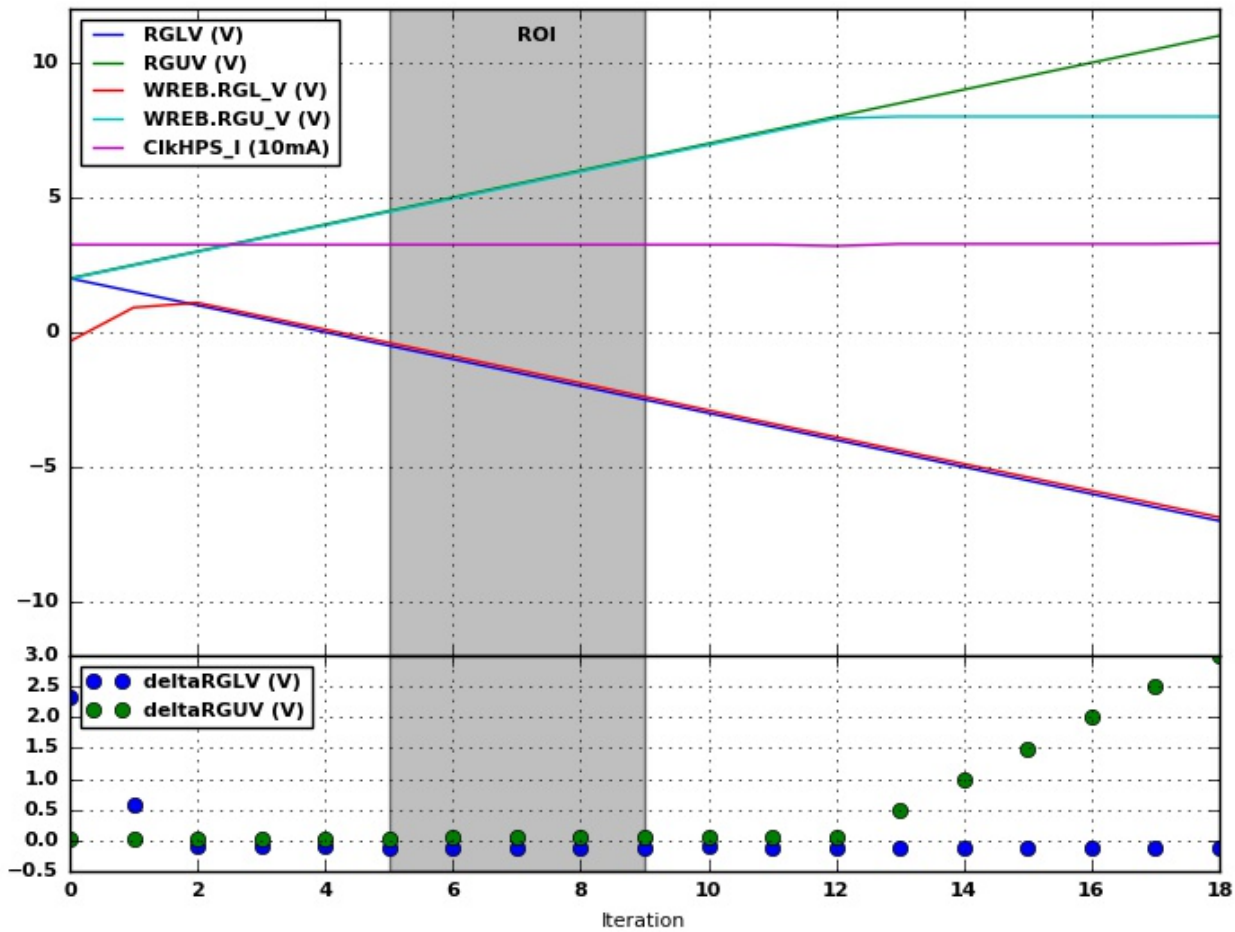
LV Gain: 0.997925.   UV Gain: 0.996399.   38/38 values okay.
Test PASSED.

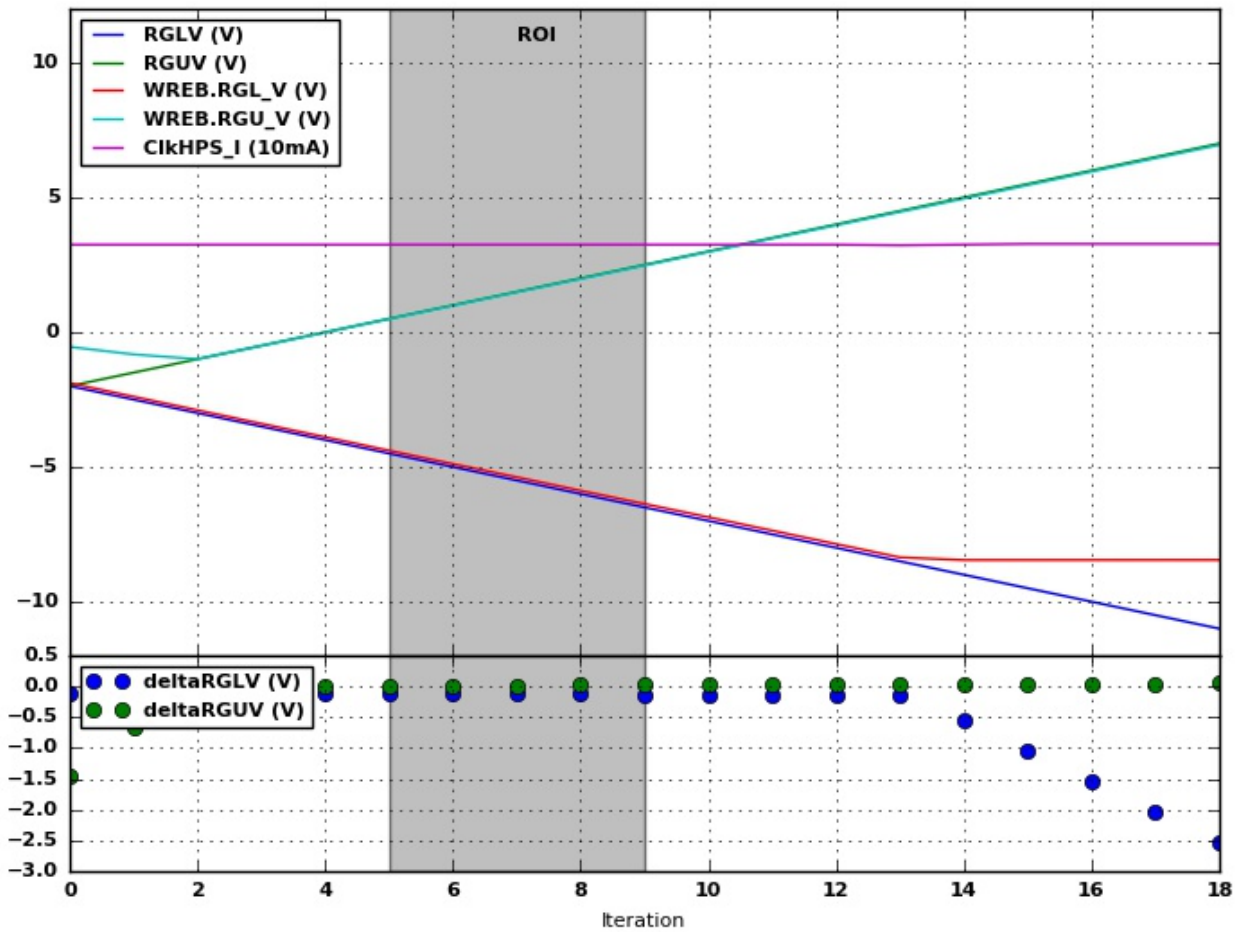| RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	ClkHPS_I (10mA)	deltaRGLV (V)	deltaRGUV (V)
2.0	2.0	-0.3426	1.9768	3.25	2.3426	0.0232
1.5	2.5	0.9148	2.475	3.25	0.5852	0.025
1.0	3.0	1.0933	2.9778	3.25	-0.0933	0.0222
0.5	3.5	0.5989	3.476	3.25	-0.0989	0.024
0.0	4.0	0.1007	3.9658	3.25	-0.1007	0.0342
-0.5	4.5	-0.3906	4.4617	3.25	-0.1094	0.0383
-1.0	5.0	-0.8881	4.9561	3.25	-0.1119	0.0439
-1.5	5.5	-1.387	5.4543	3.25	-0.113	0.0457
-2.0	6.0	-1.8875	5.9563	3.25	-0.1125	0.0437
-2.5	6.5	-2.3911	6.4537	3.25	-0.1089	0.0463
-3.0	7.0	-2.8946	6.9473	3.25	-0.1054	0.0527
-3.5	7.5	-3.3928	7.4394	3.25	-0.1072	0.0606
-4.0	8.0	-3.8925	7.933	3.2	-0.1075	0.067
-4.5	8.5	-4.3892	8.0032	3.275	-0.1108	0.4968
-5.0	9.0	-4.8889	8.0025	3.275	-0.1111	0.9975
-5.5	9.5	-5.3802	8.0025	3.275	-0.1198	1.4975
-6.0	10.0	-5.8792	8.0025	3.275	-0.1208	1.9975
-6.5	10.5	-6.3698	8.0025	3.275	-0.1302	2.4975
-7.0	11.0	-6.8657	8.0009	3.3	-0.1343	2.9991

Diverging RGRails Test -2 V

LV Gain: 0.991211.   UV Gain: 0.992126.   38/38 values okay.

Test PASSED.

RGLV (V)	RGUV (V)	WREB.RGL_V (V)	WREB.RGU_V (V)	ClkHPS_I (10mA)	deltaRGLV (V)	deltaRGUV (V)
-2.0	-2.0	-1.8875	-0.5432	3.25	-0.1125	-1.4568
-2.5	-1.5	-2.3911	-0.824	3.25	-0.1089	-0.676
-3.0	-1.0	-2.8931	-0.9979	3.25	-0.1069	-0.0021
-3.5	-0.5	-3.3936	-0.5058	3.25	-0.1064	0.0058
-4.0	0.0	-3.8918	-0.013	3.25	-0.1082	0.013
-4.5	0.5	-4.3907	0.4883	3.25	-0.1093	0.0117
-5.0	1.0	-4.8882	0.985	3.25	-0.1118	0.015
-5.5	1.5	-5.3787	1.4824	3.25	-0.1213	0.0176
-6.0	2.0	-5.8792	1.976	3.25	-0.1208	0.024
-6.5	2.5	-6.3705	2.4742	3.25	-0.1295	0.0258
-7.0	3.0	-6.8642	2.977	3.25	-0.1358	0.023
-7.5	3.5	-7.3624	3.4752	3.25	-0.1376	0.0248
-8.0	4.0	-7.8598	3.9658	3.25	-0.1402	0.0342
-8.5	4.5	-8.3565	4.4624	3.225	-0.1435	0.0376
-9.0	5.0	-8.4549	4.9561	3.25	-0.5451	0.0439
-9.5	5.5	-8.4549	5.455	3.275	-1.0451	0.045
-10.0	6.0	-8.4541	5.957	3.275	-1.5459	0.043
-10.5	6.5	-8.4534	6.4545	3.275	-2.0466	0.0455
-11.0	7.0	-8.4526	6.9473	3.275	-2.5474	0.0527

OG Bias Test
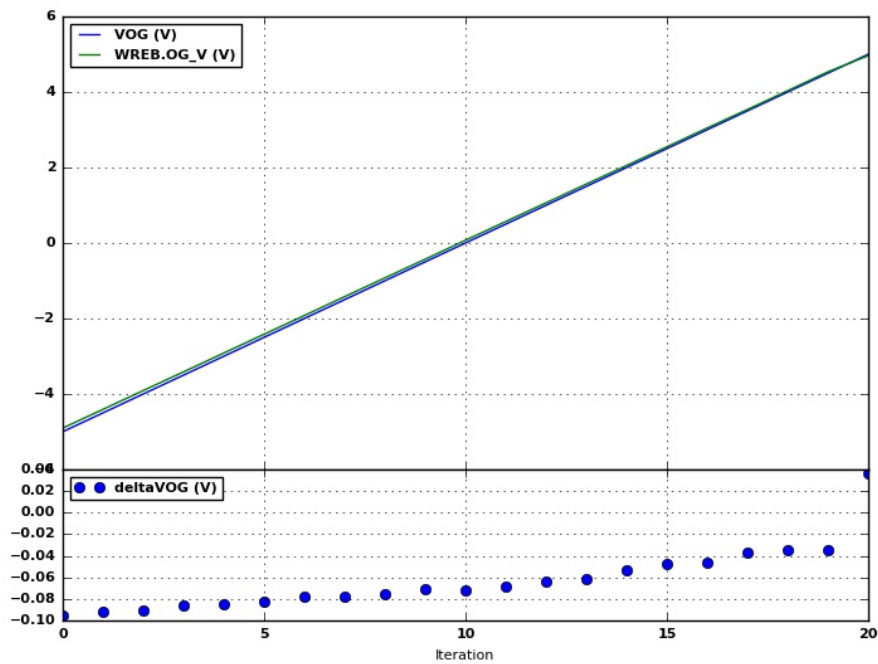
Gain: 0.991660.   21/21 values okay.

Test PASSED.

VOG (V)	WREB.OG_V (V)	deltaVOG (V)
-5.0	-4.9045	-0.0955
-4.5	-4.4077	-0.0923
-4.0	-3.9091	-0.0909
-3.5	-3.414	-0.086
-3.0	-2.9155	-0.0845
-2.5	-2.417	-0.083
-2.0	-1.9218	-0.0782
-1.5	-1.4217	-0.0783
-1.0	-0.9248	-0.0752
-0.5	-0.4297	-0.0703
0.0	0.0722	-0.0722
0.5	0.569	-0.069
1.0	1.0641	-0.0641
1.5	1.561	-0.061
2.0	2.0528	-0.0528
2.5	2.5479	-0.0479
3.0	3.0464	-0.0464
3.5	3.5365	-0.0365
4.0	4.035	-0.035
4.5	4.5352	-0.0352
5.0	4.9632	0.0368

OD Bias Test
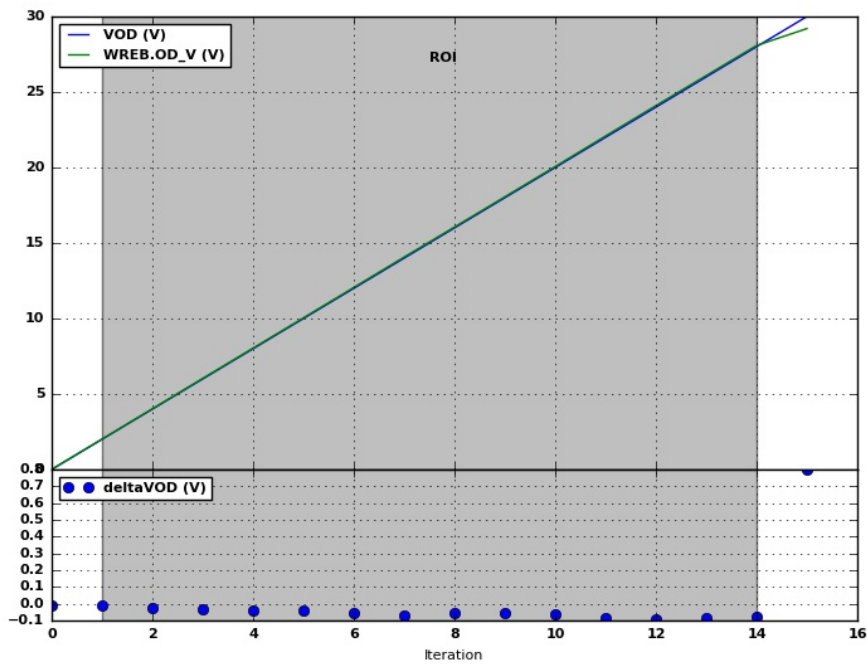
Gain: 1.003161. 16/16 values okay.

Test PASSED.

VOD (V)	WREB.OD_V (V)	deltaVOD (V)
0	0.0101	-0.0101
2	2.0125	-0.0125
4	4.0216	-0.0216
6	6.0307	-0.0307
8	8.0365	-0.0365
10	10.0406	-0.0406
12	12.0531	-0.0531
14	14.0672	-0.0672
16	16.0562	-0.0562
18	18.0569	-0.0569
20	20.0594	-0.0594
22	22.0853	-0.0853
24	24.0961	-0.0961
26	26.0884	-0.0884
28	28.0791	-0.0791
30	29.2003	0.7997

GD Bias Test
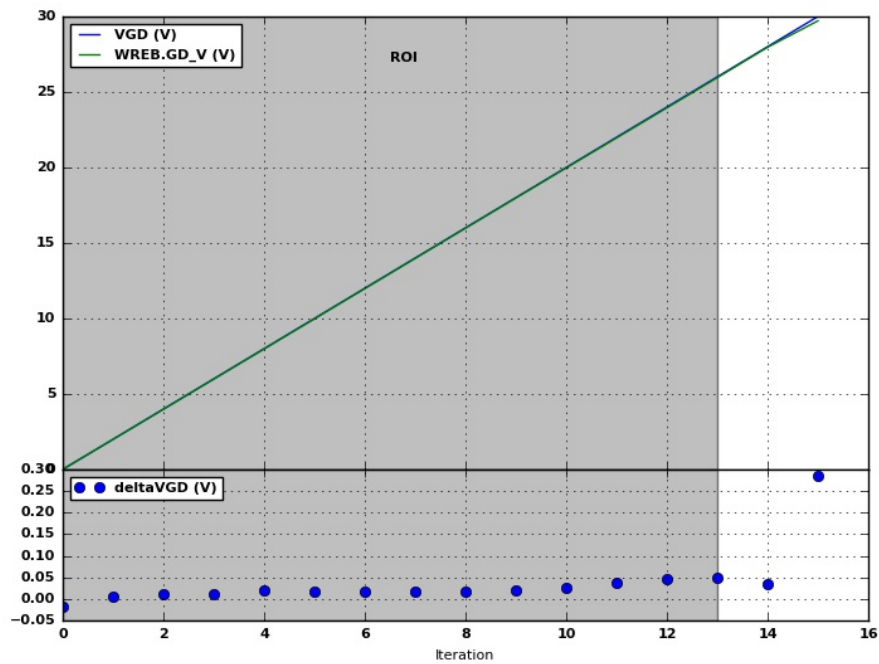
Gain: 0.998254.   16/16 values okay.

Test PASSED.

VGD (V)	WREB.GD_V (V)	deltaVGD (V)
0	0.0185	-0.0185
2	1.9957	0.0043
4	3.988	0.012
6	5.9888	0.0112
8	7.9811	0.0189
10	9.9818	0.0182
12	11.9826	0.0174
14	13.9833	0.0167
16	15.984	0.016
18	17.9814	0.0186
20	19.9738	0.0262
22	21.9611	0.0389
24	23.9534	0.0466
26	25.9508	0.0492
28	27.9649	0.0351
30	29.7139	0.2861

RD Bias Test
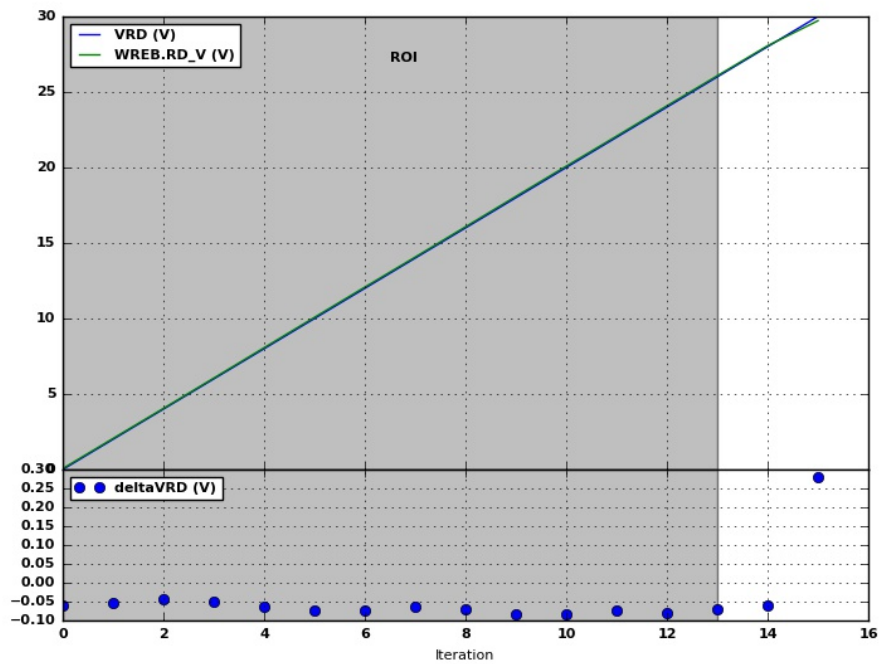
Gain: 1.001436.   16/16 values okay.

Test PASSED.

VRD (V)	WREB.RD_V (V)	deltaVRD (V)
0	0.0587	-0.0587
2	2.0528	-0.0528
4	4.0417	-0.0417
6	6.0492	-0.0492
8	8.0617	-0.0617
10	10.0725	-0.0725
12	12.0749	-0.0749
14	14.0639	-0.0639
16	16.0713	-0.0713
18	18.0838	-0.0838
20	20.0845	-0.0845
22	22.0735	-0.0735
24	24.081	-0.081
26	26.0716	-0.0716
28	28.0606	-0.0606
30	29.7206	0.2794

Board temperature test

Erro

Unclamped ASPIC Noise Test

Channel 1
$\mu = 2.6e+04, \sigma = 5.2$
+2.548e4

Channel 2
$\mu = 2.6e+04, \sigma = 5.1$
+2.569e4

Channel 3
$\mu = 2.6e+04, \sigma = 5.0$
+2.591e4

Channel 4
$\mu = 2.5e+04, \sigma = 4.9$
+2.487e4

Channel 5
$\mu = 2.6e+04, \sigma = 4.9$
+2.586e4

Channel 6
$\mu = 2.6e+04, \sigma = 5.0$
+2.548e4

Channel 7
$\mu = 2.5e+04, \sigma = 4.9$
+2.543e4

Channel 8
$\mu = 2.5e+04, \sigma = 4.9$
+2.527e4

Channel 9
$\mu = 2.5e+04, \sigma = 5.0$
+2.545e4

Channel 10
$\mu = 2.7e+04, \sigma = 5.0$
+2.66e4

Channel 11
$\mu = 2.6e+04, \sigma = 5.0$
+2.572e4

Channel 12
$\mu = 2.6e+04, \sigma = 5.1$
+2.583e4

Channel 13
$\mu = 2.5e+04, \sigma = 5.0$
+2.54e4

Channel 14
$\mu = 2.5e+04, \sigma = 5.0$
+2.524e4

Channel 15
$\mu = 2.5e+04, \sigma = 5.0$
+2.537e4

Channel 16
$\mu = 2.5e+04, \sigma = 5.0$
+2.531e4

Test PASSED.

Clamped ASPIC Noise Test

Channel 1
$\mu = 2.6e+04, \sigma = 4.2$
+2.549e4

Channel 2
$\mu = 2.6e+04, \sigma = 4.1$
+2.569e4

Channel 3
$\mu = 2.6e+04, \sigma = 4.0$
+2.592e4

Channel 4
$\mu = 2.5e+04, \sigma = 3.9$
+2.487e4

Channel 5
$\mu = 2.6e+04, \sigma = 3.9$
+2.587e4

Channel 6
$\mu = 2.6e+04, \sigma = 3.9$
+2.549e4

Channel 7
$\mu = 2.5e+04, \sigma = 3.9$
+2.544e4

Channel 8
$\mu = 2.5e+04, \sigma = 3.9$
+2.528e4

Channel 9
$\mu = 2.5e+04, \sigma = 4.0$
+2.545e4

Channel 10
$\mu = 2.7e+04, \sigma = 4.0$
+2.66e4

Channel 11
$\mu = 2.6e+04, \sigma = 4.0$
+2.572e4

Channel 12
$\mu = 2.6e+04, \sigma = 4.0$
+2.583e4

Channel 13
$\mu = 2.5e+04, \sigma = 4.0$
+2.54e4

Channel 14
$\mu = 2.5e+04, \sigma = 4.0$
+2.524e4

Channel 15
$\mu = 2.5e+04, \sigma = 4.0$
+2.538e4

Channel 16
$\mu = 2.5e+04, \sigma = 3.9$
+2.531e4

Test PASSED.

Reset ASPIC Noise Test

Channel 1
$\mu = 2.5e + 04, \sigma = 3.2$

+2.539e4

Channel 2
$\mu = 2.6e + 04, \sigma = 3.4$

+2.551e4

Channel 3
$\mu = 2.6e + 04, \sigma = 3.2$

+2.575e4

Channel 4
$\mu = 2.5e + 04, \sigma = 3.3$

+2.488e4

Channel 5
$\mu = 2.6e + 04, \sigma = 3.2$

+2.563e4

Channel 6
$\mu = 2.5e + 04, \sigma = 3.2$

+2.53e4

Channel 7
$\mu = 2.5e + 04, \sigma = 3.2$

+2.537e4

Channel 8
$\mu = 2.5e + 04, \sigma = 3.3$

+2.529e4

Channel 9
$\mu = 2.6e + 04, \sigma = 3.4$

+2.552e4

Channel 10
$\mu = 2.6e + 04, \sigma = 3.3$

+2.608e4

Channel 11
$\mu = 2.6e + 04, \sigma = 3.3$

+2.551e4

Channel 12
$\mu = 2.6e + 04, \sigma = 3.3$

+2.582e4

Channel 13
$\mu = 2.5e + 04, \sigma = 3.3$

+2.532e4

Channel 14
$\mu = 2.5e + 04, \sigma = 3.3$

+2.511e4

Channel 15
$\mu = 2.5e + 04, \sigma = 3.3$

+2.524e4

Channel 16
$\mu = 2.5e + 04, \sigma = 3.3$

+2.523e4

Test PASSED.