

Report of Calibration  
PSC 2CH-HSS-AR-QD-QF\_S/N 0014  
2026-01-13 16:38:26

Calibration Current standard: BNL PSC ATE S/N 001  
Calibration Volt standard: HP 3458A-002 S/N 2823A 23647  
Calibration Resistance standard: Fluke 742A-1 S/N 1063008  
End Header

lab{5}Chan1  
Burden resistor = 18.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999707	1.002342	-1.028100	-1.026525	0.995344	0.002197
-50.008423	50.006180	-49.640297	-49.650417	49.963772	0.065468

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.002734	-0.036482	-0.034668	0.000000
Initial measured gains:	0.999900	0.991909	0.992148	0.999277
Gain corrections:	0.999900	1.008157	1.007914	1.000000

Writing gain and offset corrections for dacSP, dcct1, and dcct2 to PSC

Measuring DAC readback gain and offset

DAC SP	DAC RB
1.000000	0.995628
50.000000	49.955711

Measured offset: -0.003557

Measured gain: 0.999185

Gain correction: 1.000815

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999812	0.999765	-0.999723	-0.999778	1.000451	0.009055
-50.008421	50.008629	-50.008614	-50.008591	50.008156	0.060101

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	0.000052	0.000094	0.000038	0.000709
Final measured gains:	1.000005	1.000006	1.000004	0.999976

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	-0.000015	-0.000149	-0.000133	0.000006
Final measured offsets stdev:	0.000079	0.000133	0.000145	0.000829
Final measured gains mean:	1.000000	1.000001	1.000000	0.999992
Final measured gains stdev:	0.000003	0.000003	0.000003	0.000016

Saving channel 1 calibration constants to qspi

lab{5}Chan2  
Burden resistor = 9.0000

Measuring initial gains and offsets

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999367	1.018207	-1.061665	-1.058281	1.005314	0.000029
-100.016570	100.017035	-99.281830	-99.373505	100.197586	0.071301

	dacSP	dcct1	dcct2	dacRB
Initial measured offsets:	-0.019026	-0.070342	-0.066000	0.000000
Initial measured gains:	0.999814	0.991951	0.992911	1.001954
Gain corrections:	0.999814	1.008115	1.007140	1.000000

Writing gain and offset corrections for dacSP, dcct1, and dcct2 to PSC

Measuring DAC readback gain and offset

DAC SP	DAC RB
1.000000	1.005984
100.000000	100.181732

Measured offset: 0.004208

Measured gain: 1.001775

Gain correction: 0.998228

Writing gain and offset constants for dacRB to PSC

Verification

Itest	dacSP	dcct1	dcct2	dacRB	err
-0.999242	0.999375	-0.999489	-0.999526	1.001902	0.001829
-100.016426	100.016543	-100.016273	-100.015930	100.018486	0.077166

	dacSP	dcct1	dcct2	dacRB
Final measured offsets:	-0.000134	-0.000251	-0.000292	0.002533
Final measured gains:	1.000000	0.999996	0.999992	0.999994

	dacSP	dcct1	dcct2	dacRB
Final measured offsets mean:	0.000126	-0.000172	-0.000258	0.002926
Final measured offsets stdev:	0.000166	0.000124	0.000152	0.000259
Final measured gains mean:	0.999995	0.999991	0.999991	0.999995
Final measured gains stdev:	0.000006	0.000004	0.000003	0.000006

Saving channel 2 calibration constants to qspi

Test data reviewed by \_\_\_\_\_ Date\_\_\_\_\_