DTMROC Inputs:

Starting from Pin # 1, clockwise:

TR14 – 15 P,N:	threshold scan
tp_bias	think it's fine
tp_even, TP_odd	test pulse scans
th_TR0, th_TR1	high threshold scanhave verified for a few chips
th_D0, th_D1	threshold scans
Config_select	goes to PADJ1, PADJ2 – Mitch checked
Shaper_select	goes to Xel – Mitch checked
ASDBLRpwrsense	tested
ASDBLRpwrjmp	tested
SpareInpsense	tested
spareInpjmp	tested
enable_decoup2	Mitch is not sure of the status; not important
cmd_in_neg, cmd_in_pos	threshold scan
bc_neg, bc_pos	threshold scan
hard_reset_B_neg,pos	have checked on scope, polarity has to be correct to work
cmd_out_pos, com_out_neg	register readout
data_out_net, data_out_pos	threshold scan
enable_decoup1	Mitch is not sure of the status; not important
TRST,TCK,TDI,TMS,TD0	NC (JTAG) (needs reviewing for Bjorn's boards)
Address 0-5	Known to work on AR1F & AR1B – connected & way we want them.
TR00 – 01 P,N	threshold scan
TR02 – 13 P,N	threshold scan
NAIS Connector to Paddle Card	
Do above tests test all signals?	
ASDBLR	
Power: VCP,VCS,VES,VCD, VED,VEDR	checked by basic operation
Ternary Inputs:	ohm-meter test or noise tests on the module
Ternary Outputs:	threshold scan
PVCDS	stuffed for what current?

Ternary Outputs: PVCDS PTH_D PTH_TR XEL, PADJS1,PADJS2 BLBIAS TST_O TST_E PEN_SH, PEN_BL MON_A1,MON_B1 onm-meter test or noise tests on the modu threshold scan stuffed for what current? threshold scan test-pulse scan at high threshold Mitch looked at NC test pulse test pulse Mitch

Board Level:

Noise Tests: performed for four AR1BS & AR1BL boards, and several AR1FL and AR1FS boards on the module. Verified that which Vdd caps should be removed on AR1FL boards and that copper tape (or equivalent) should be added on AR1FS. Whether or not to remove caps on AR1B boards remains to be checked...**Do we wait for this for AR1B assembly?**

Is the termination correct: have looked at the receiving termination, about 100 ohms. We've never investigated the back termination resistors. Currently it is 120 ohms. Proabably OK. But Rick raises issue of size of signal at the PP. Mitch says we see 100+ mV but Rick raises the question of what length of cable. Mitch – we should test "as stuffed". Rick would like to review..what is the longest cable we have ever used.

Value of resistors between analog and digital ground isn't critical. Ben verified that the resistors are all 10 ohms.

Test Pulse – Mitch is happy with the filter components on barrel boards, but would really like to see the response when we try to try high threshold test.

Report from Ben: only two problems on all 8 ARB boards. One shorted input, couldn't locate exactly where it was; one channel which gets much noisier during test pulse.

Would see a 300kHz threshold of 250 or so where most all channels are around 180 (this for an injected charge of 10 DAQ cnts). NOTE: they looked at three other boards and didn't see anything.

So 2 channels out of 1300.

Found a few more channels with large offsets for Gabe to check against his measurements.

Questions:

Ben: do we have a final plan for labeling these boards?

Cooling Plate Mounting – DONE in terms of mates OK and noise measurements. Temperature measurements haven't yet been repeated.