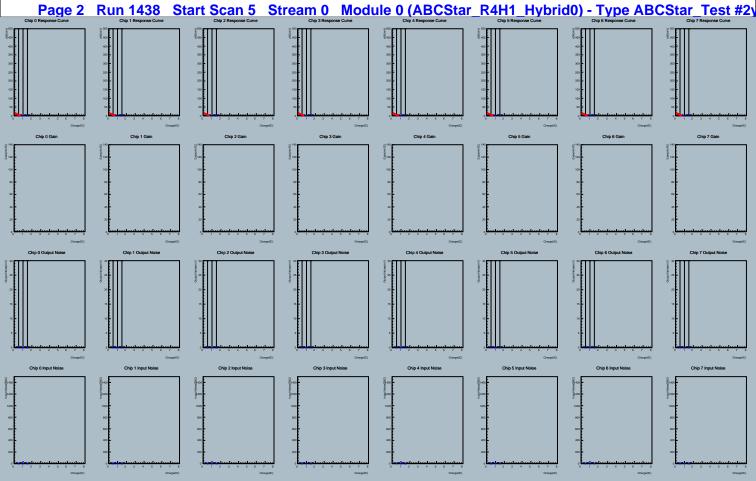
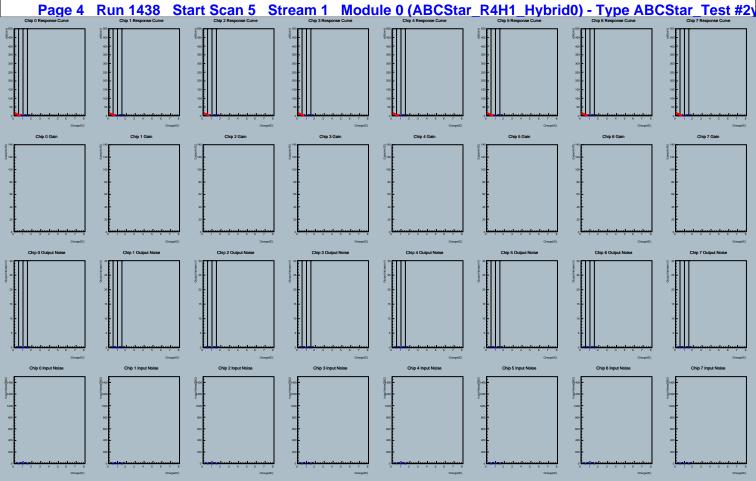
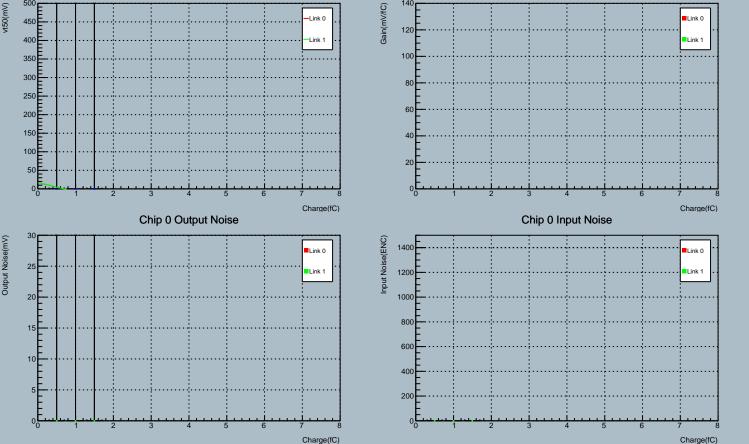
ATLAS ITk Test: Response vs. Channel - Tue Jun 28 11:11:31 2022 - TRIUMF Page 1 Run 1438 Start Scan 5 Stream 0 Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2y 50 F Gain at 1.00fC 120 🗲 100 E 896 1024 Gain at 0fC 120 ⊏ 100 F 896 1024 Input Noise at 1.00fC 1400 E 896 1024



ATLAS ITk Test: Response vs. Channel - Tue Jun 28 11:11:31 2022 - TRIUMF Page 3 Run 1438 Start Scan 5 Stream 1 Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2y Gain at 1.00fC 120 🗲 100 E 896 1024 Gain at 0fC 120 ⊏ 100 F 896 1024 Input Noise at 1.00fC 1400 E 896 1024

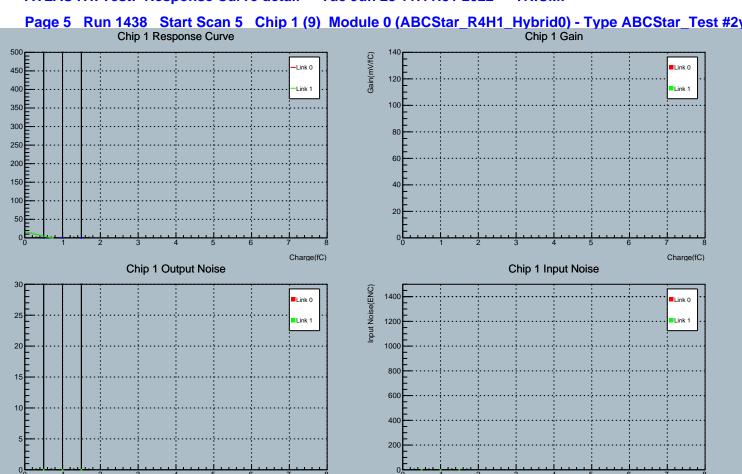


Page 4 Run 1438 Start Scan 5 Chip 0 (10) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2
Chip 0 Response Curve Chip 0 Gain



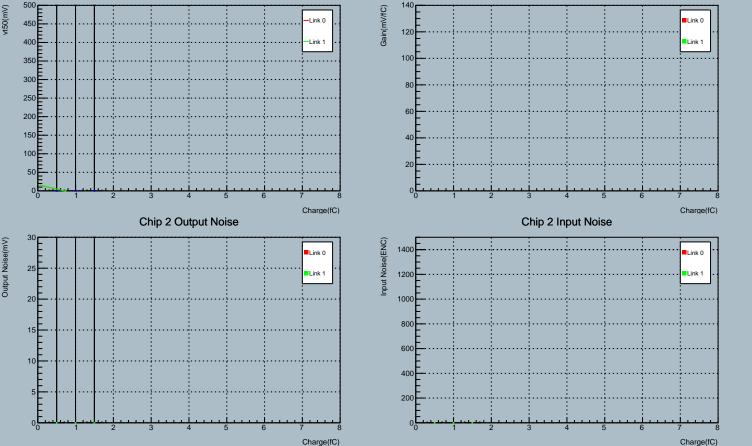
Charge(fC)

Output Noise(mV)

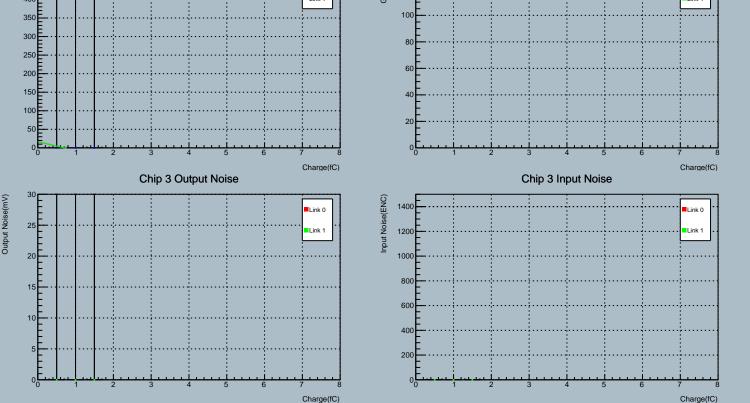


Charge(fC)

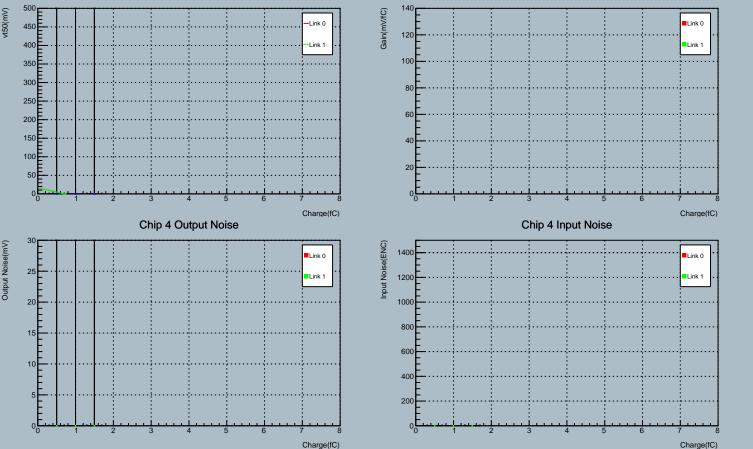
Page 6 Run 1438 Start Scan 5 Chip 2 (8) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2)
Chip 2 Response Curve
Chip 2 Gain



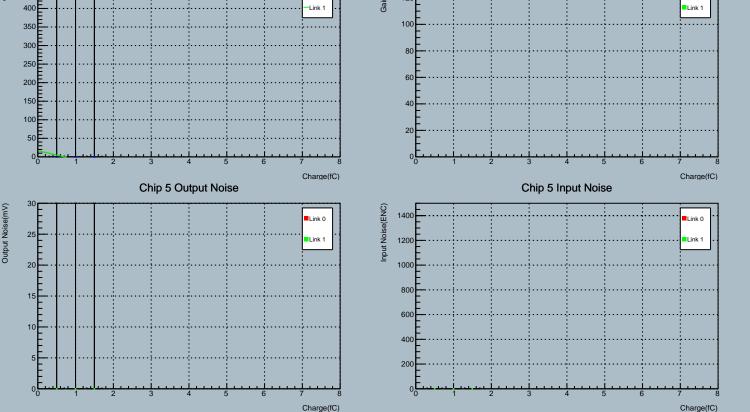
Page 7 Run 1438 Start Scan 5 Chip 3 (7) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2) Chip 3 Response Curve Chip 3 Gain Sain(mV/fC) Link 0 Link 1



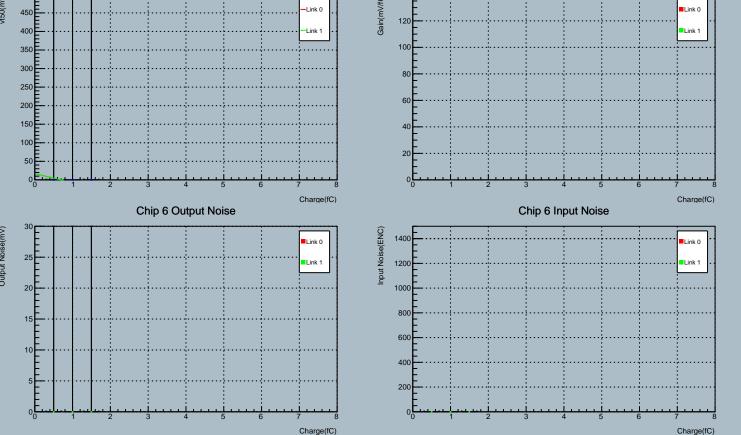
Page 8 Run 1438 Start Scan 5 Chip 4 (6) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #29 Chip 4 Response Curve Chip 4 Gain



Page 9 Run 1438 Start Scan 5 Chip 5 (5) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2) Chip 5 Response Curve Chip 5 Gain Sain(mV/fC) Link 0 Link 1



Page 10 Run 1438 Start Scan 5 Chip 6 (4) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2 Chip 6 Gain Chip 6 Response Curve 140 Sain(mV/fC) Link 0 450 120 Link 1 100 350 300 80 60 200 150 40 20 50 Charge(fC) Charge(fC) Chip 6 Output Noise Chip 6 Input Noise Input Noise(ENC 1400 Link 0 Link 1 1200 1000 800



Page 11 Run 1438 Start Scan 5 Chip 7 (3) Module 0 (ABCStar_R4H1_Hybrid0) - Type ABCStar_Test #2
Chip 7 Response Curve Chip 7 Gain

