/mnt/c/Users/client/Desktop/tesi/tesi/Analysis/W14R12/threshold scan/all norm/ 200/20221010 095045 threshold scan interpreted.h5 Chip = W14R12

Script version = 868c56c

IBIAS = 50, ITHR = 64, ICASN = 0, IDB = 100, ITUNE = 53, VRESET = 143, VCASP = 93, VCASC = 228, VCLIP = 255, VL = 2, VH = 200, ICOMP = 80, IDEL = 88, IRAM = 50

threshold scan

start column = 0, stop column = 28, start row = 0, stop row = 512, n injections

= 100, VCAL HIGH = 200, VCAL LOW start = 199, VCAL LOW stop = 1, VCAL LOW step =

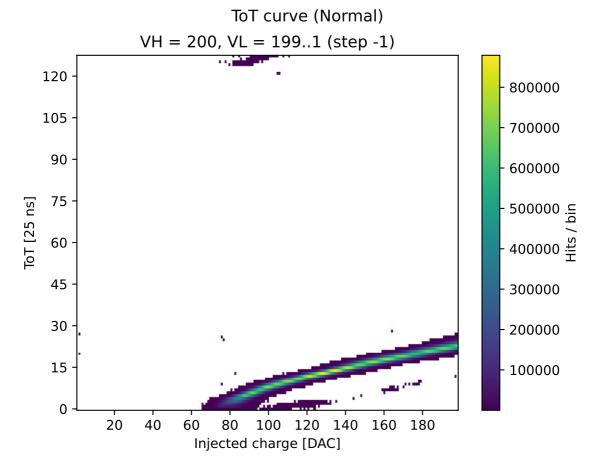
-1



S-Curve (All FEs) VH = 200, VL = 199..1 (step -1) 13500 1.4 12000 1.2 10500 1.0 9000 Occupancy Pixels / bin 8.0 7500 6000 0.6 4500 0.4 3000 0.2 1500 0.0 20 40 60 80 160 180 100 120 140 Injected charge [DAC]

S-Curve (Normal) VH = 200, VL = 199..1 (step -1)13500 1.4 12000 1.2 10500 1.0 9000 Occupancy Pixels / bin 8.0 7500 6000 0.6 4500 0.4 3000 0.2 1500 0.0 20 40 60 80 160 180 100 120 140 Injected charge [DAC]

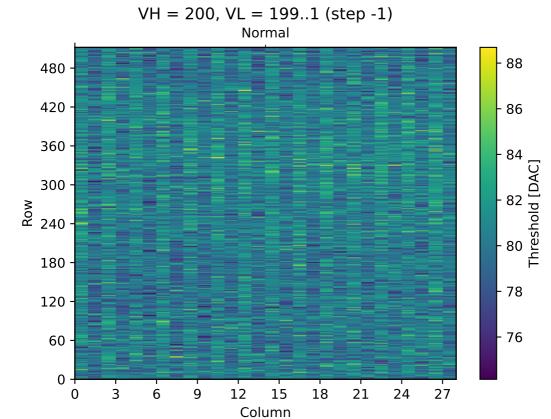
ToT curve (All FEs) VH = 200, VL = 199..1 (step -1)120 -105 -90 -75 -ToT [25 ns] Hits / bin 60 -45 -30 -15 -F 0 0 20 40 60 80 120 140 160 180 100 Injected charge [DAC]



Threshold distribution VH = 200, VL = 199..1 (step -1)3200 Normal 80.4 ± 1.9 2800 2400 2000 Pixels / bin 1600 1200 800 400 0 72.5 75.0 77.5 80.0 82.5 85.0 87.5 90.0

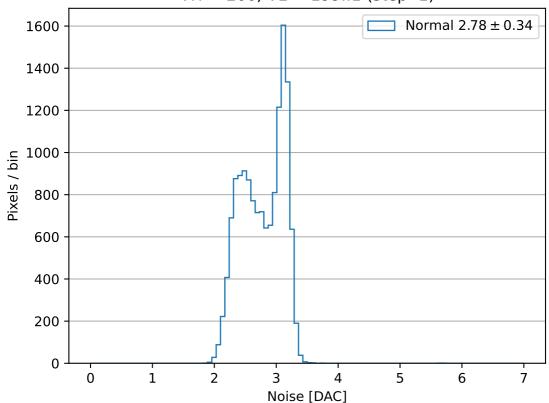
Threshold [DAC]

Threshold map

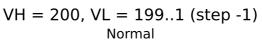


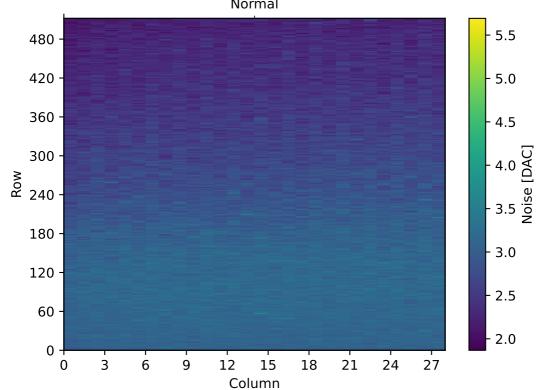
Noise (width of s-curve slope) distribution

VH = 200, VL = 199..1 (step -1)



Noise (width of s-curve slope) map





Time between hits (All FEs) VH = 200, VL = 199..1 (step -1)12 10 - Δt_{token} from previous hit [µs] 8 -Hits / bin 6 -4 -2 F 0

105

120

15

30

45

60

ToT [25 ns]

75

90

0

Time between hits (Normal) VH = 200, VL = 199..1 (step -1) Δt_{token} from previous hit [µs] ToT [25 ns]

Time between hits (All FEs) VH = 200, VL = 199..1 (step -1)12 10 - Δt_{token} from previous hit [µs] 8 Hits / bin 6 -4 -2 F 0 20 40 60 80 120 140 160 180 100 Injected charge [DAC]

