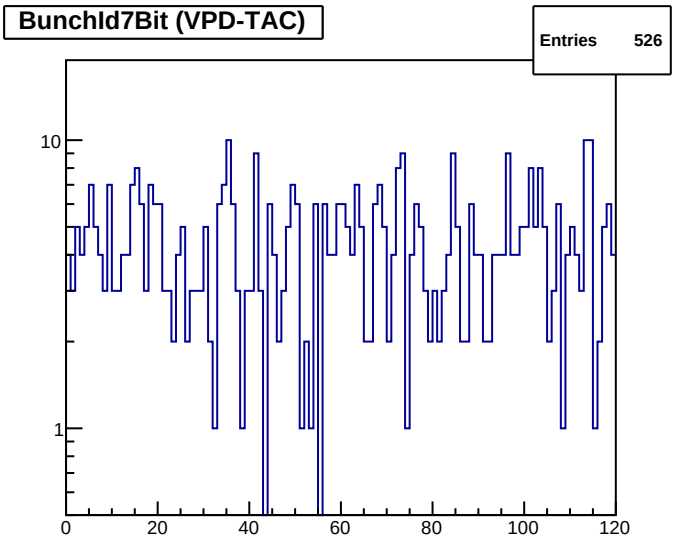
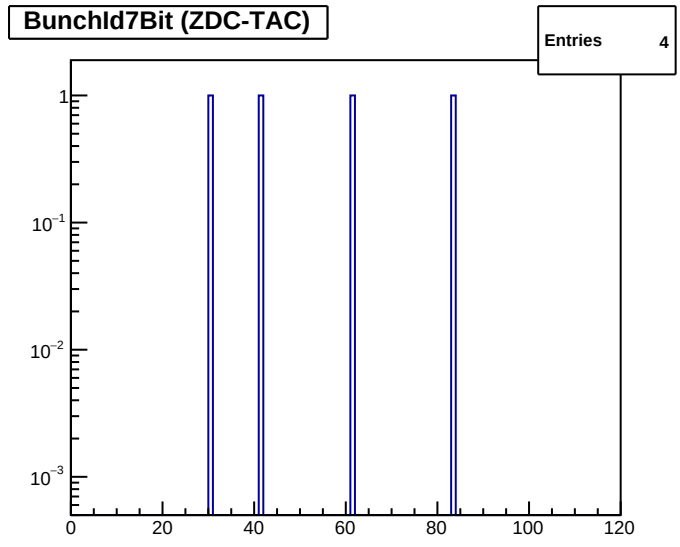
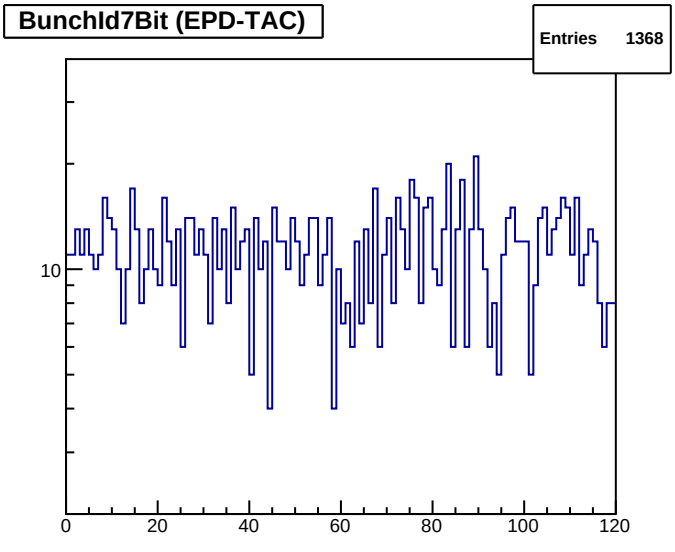
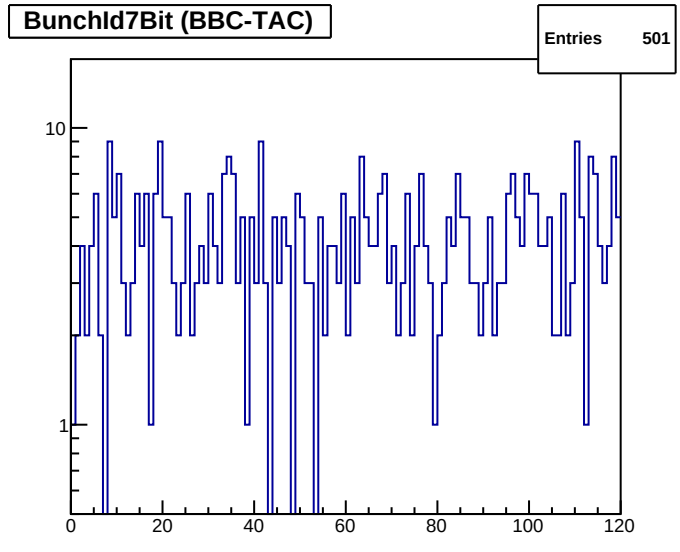
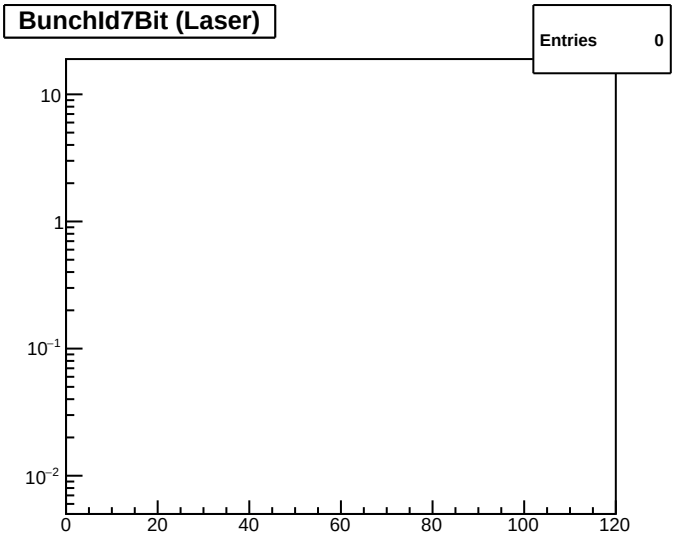
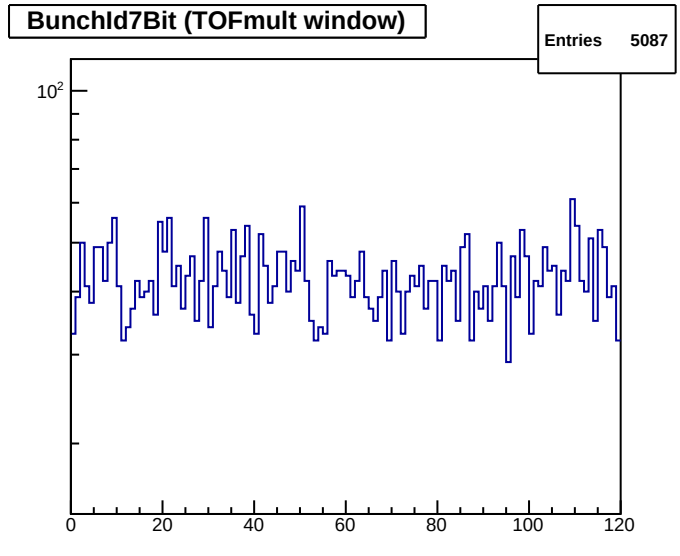

BunchId7Bit (VPD-TAC)
Entries 526
10
1
0 20 40 60 80 100 120

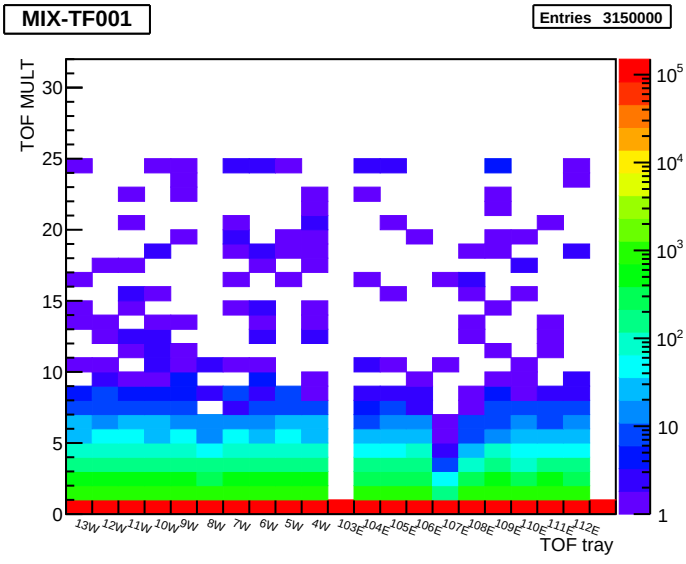

BunchId7Bit (ZDC-TAC)
Entries 4
1
10^{-1}
10^{-2}
10^{-3}
0 20 40 60 80 100 120

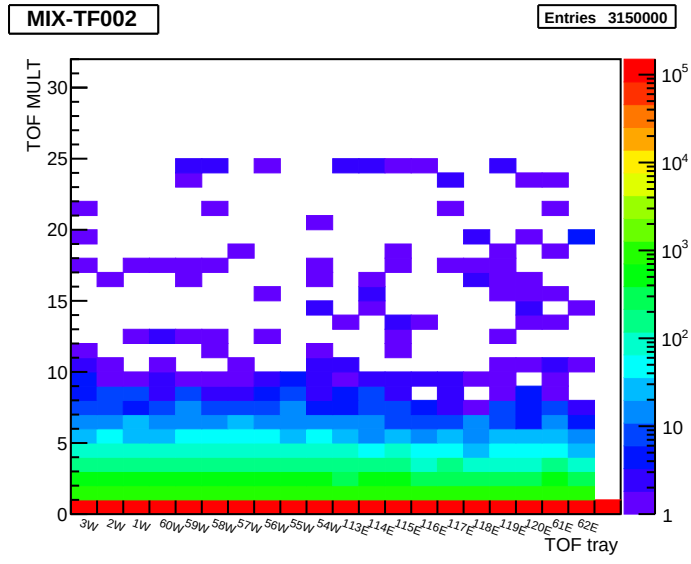

BunchId7Bit (EPD-TAC)
Entries 1368
10
0 20 40 60 80 100 120

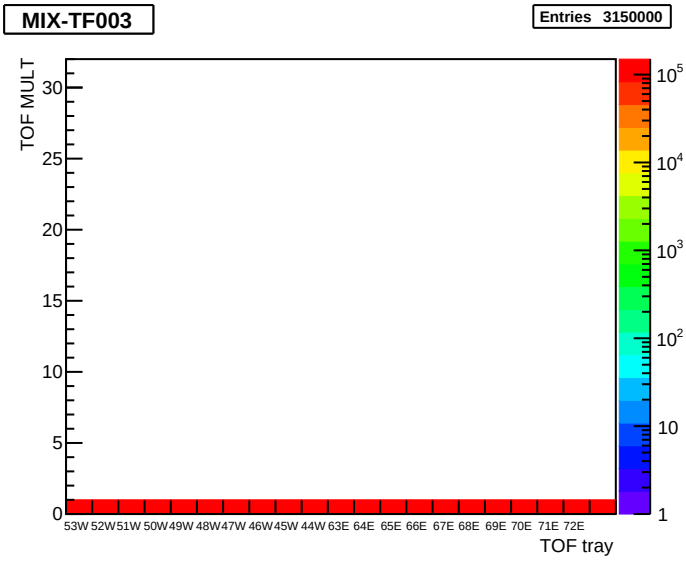

BunchId7Bit (BBC-TAC)
Entries 501
10
1
0 20 40 60 80 100 120

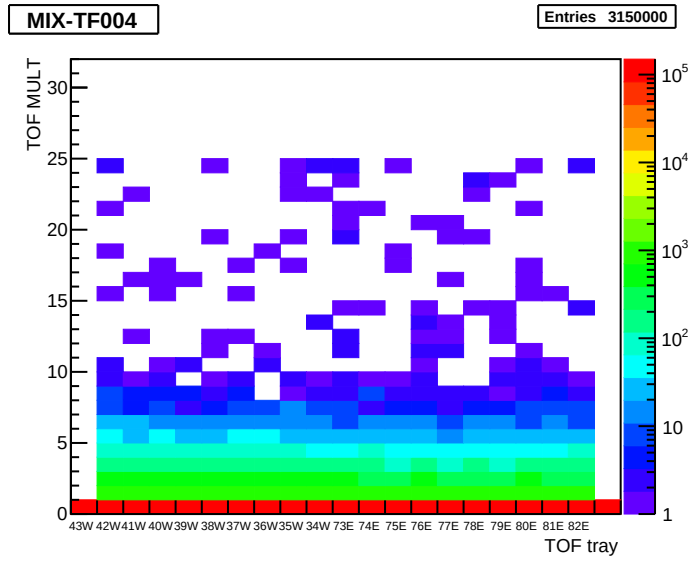

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

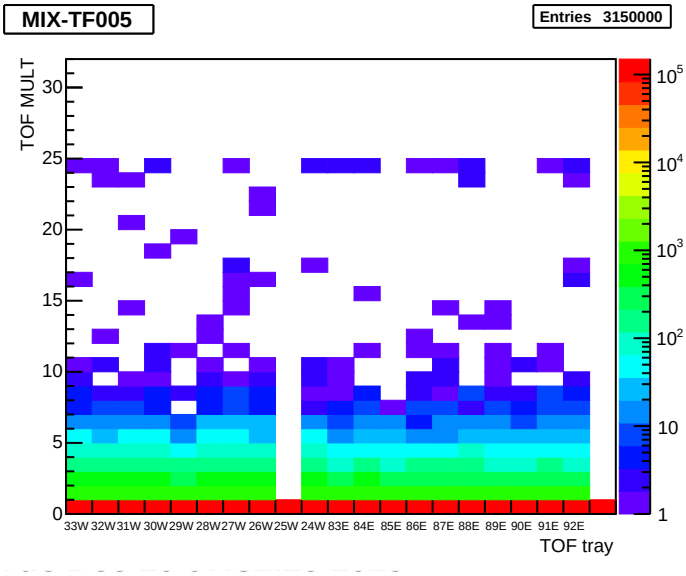

BunchId7Bit (TOFmult window)
Entries 5087
10^{2}
0 20 40 60 80 100 120

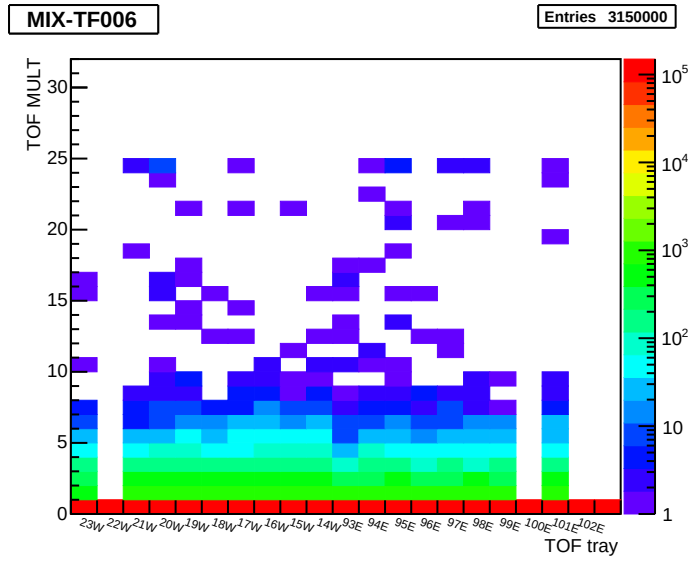

MIX-TF001
Entries 3150000
TOF MULT
TOF tray

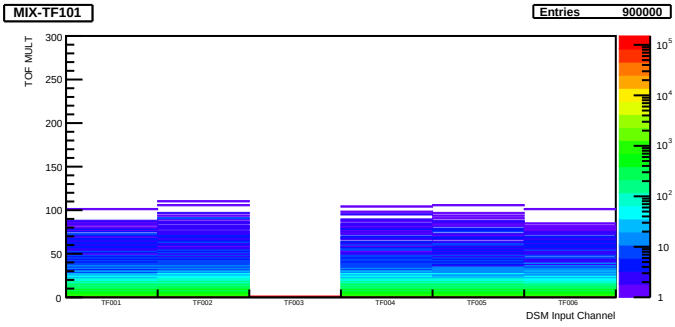

MIX-TF002
Entries 3150000
TOF MULT
TOF tray

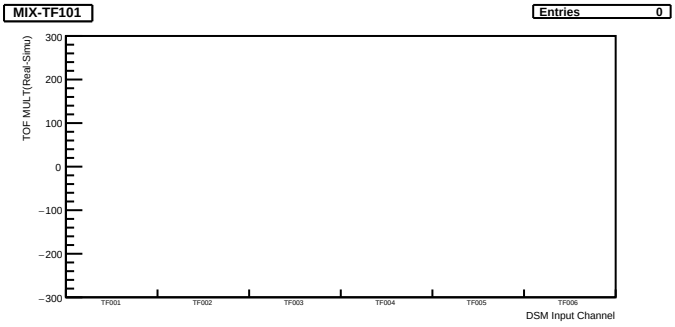

MIX-TF003
Entries 3150000
TOF MULT
TOF tray

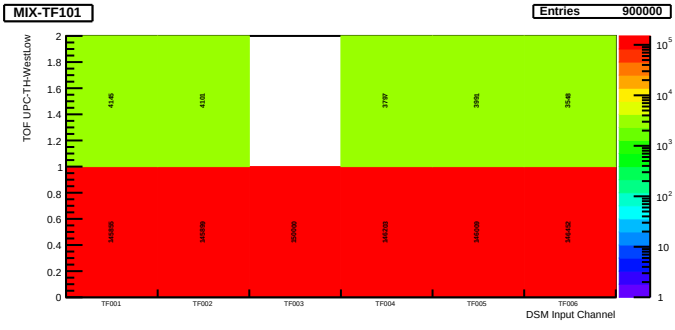

MIX-TF004
Entries 3150000
TOF MULT
TOF tray

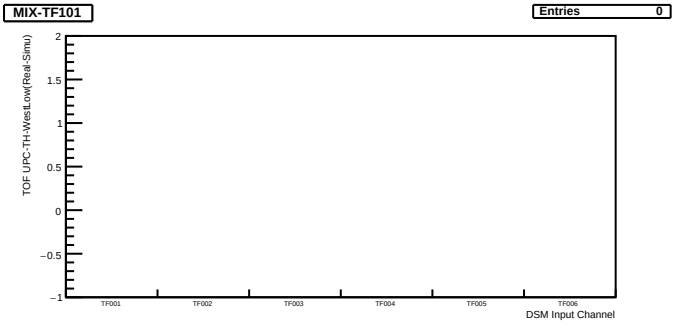

MIX-TF005
Entries 3150000
TOF MULT
TOF tray

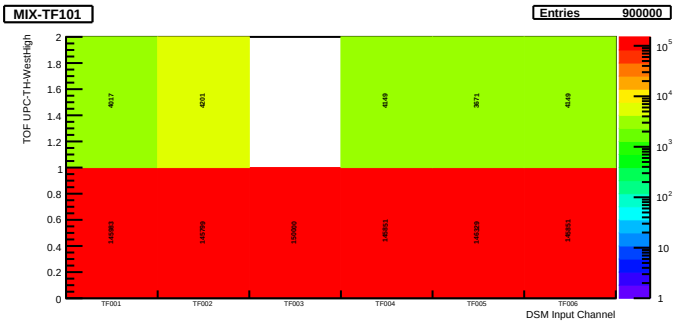

MIX-TF006
Entries 3150000
TOF MULT
TOF tray

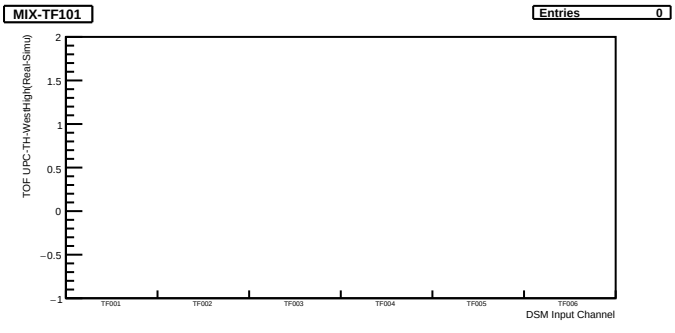

MIX-TF101
Entries 900000
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

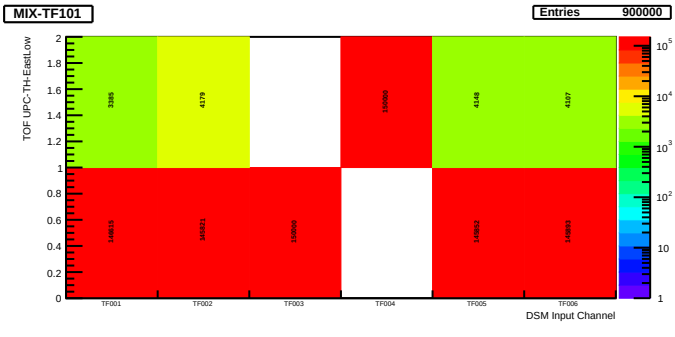

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

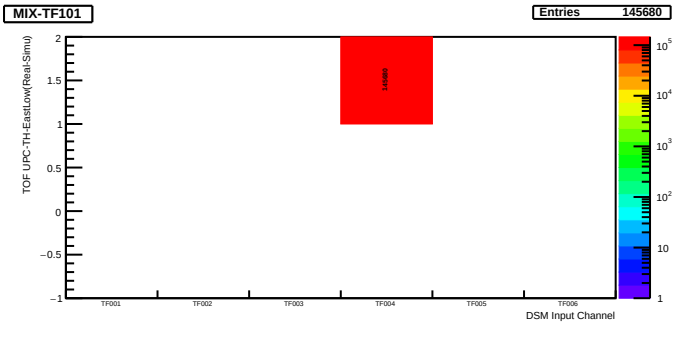

MIX-TF101
Entries 900000
TOF UPC-TH-WestLow
4145
4101
3797
3981
3548
145885
145889
150000
146128
146009
146402
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

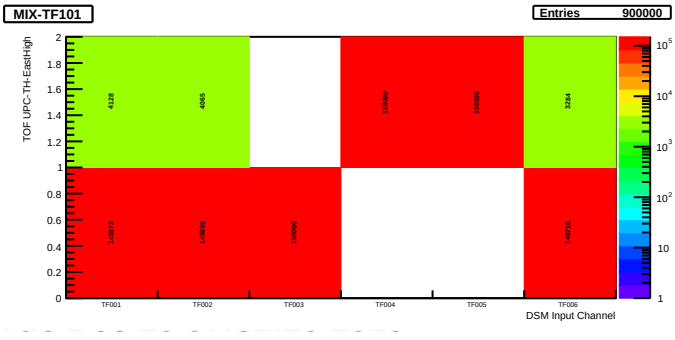

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

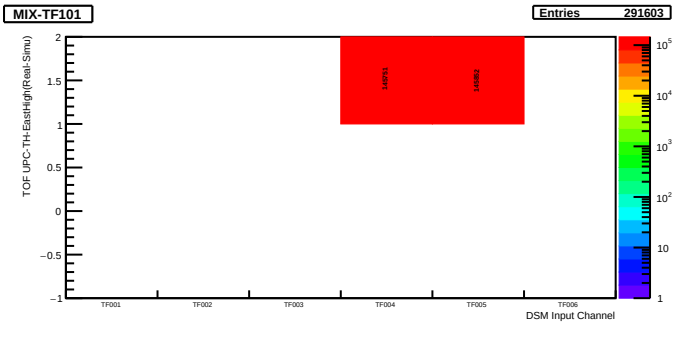

MIX-TF101
Entries 900000
TOF UPC-TH-WestHigh
4017
4201
4149
3871
4149
145983
145799
150000
145851
145829
145851
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

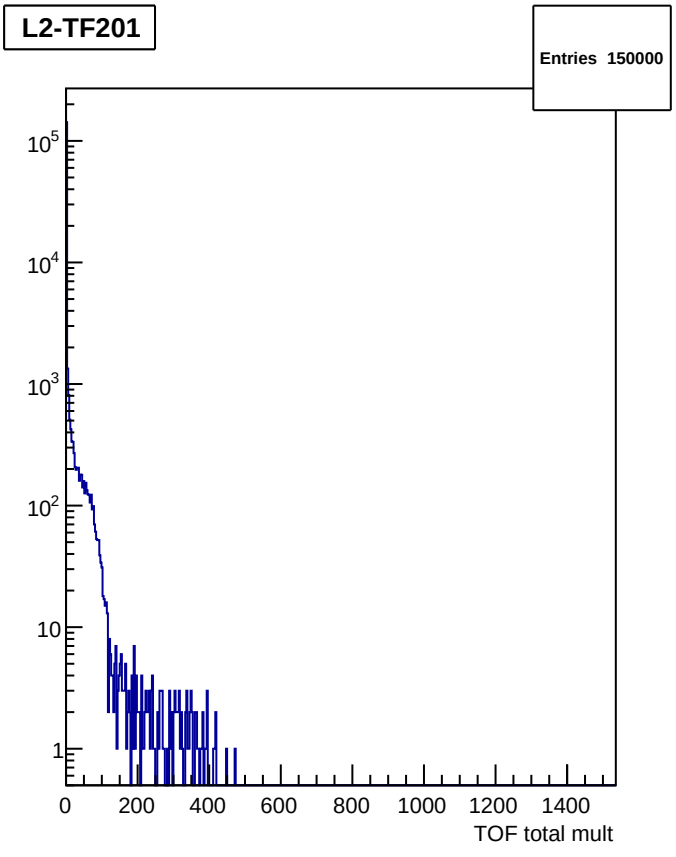

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

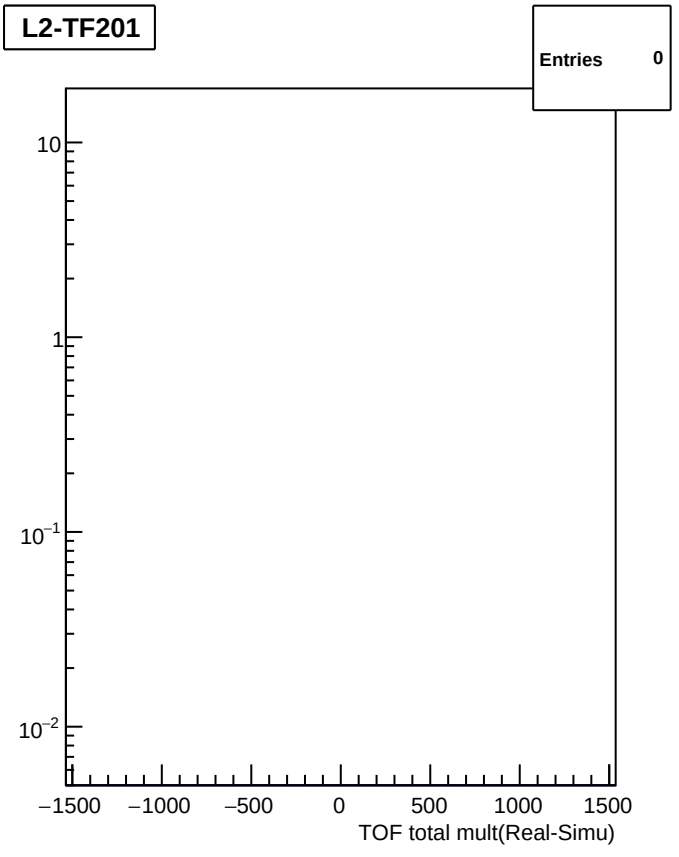

MIX-TF101
Entries 900000
TOF UPC-TH-EastLow
3385
4179
150000
4148
4107
146615
145821
150000
145852
145893
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

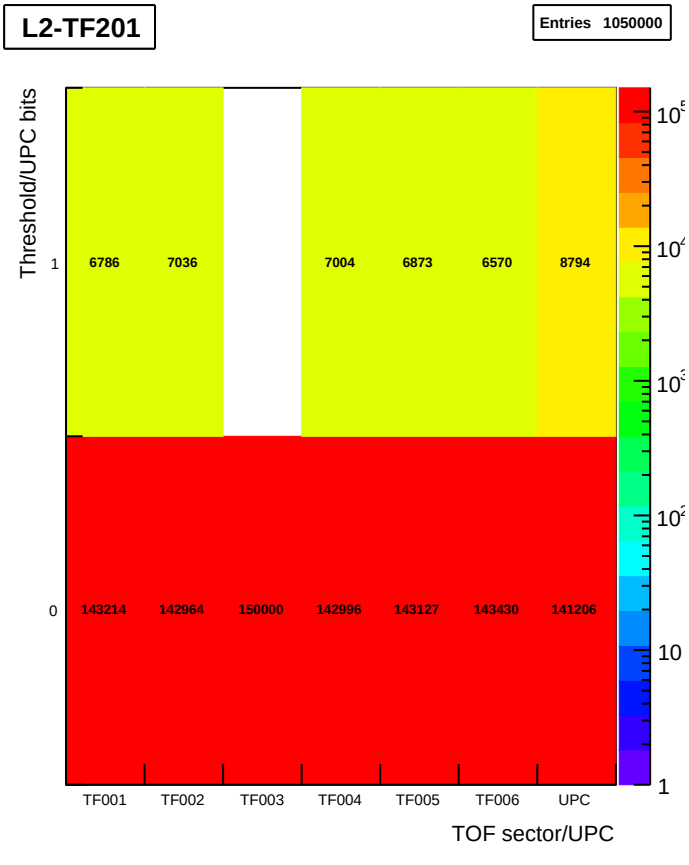

MIX-TF101
Entries 145680
TOF UPC-TH-EastLow(Real-Simu)
145680
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

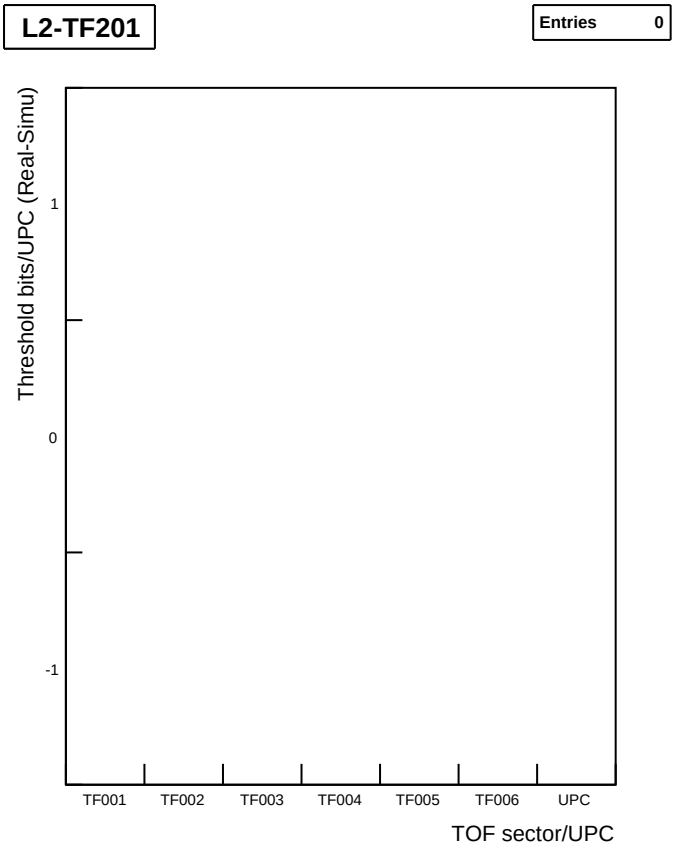

MIX-TF101
Entries 900000
TOF UPC-TH-EastHigh
4128
4065
150000
150000
3294
146872
146835
150000
146716
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

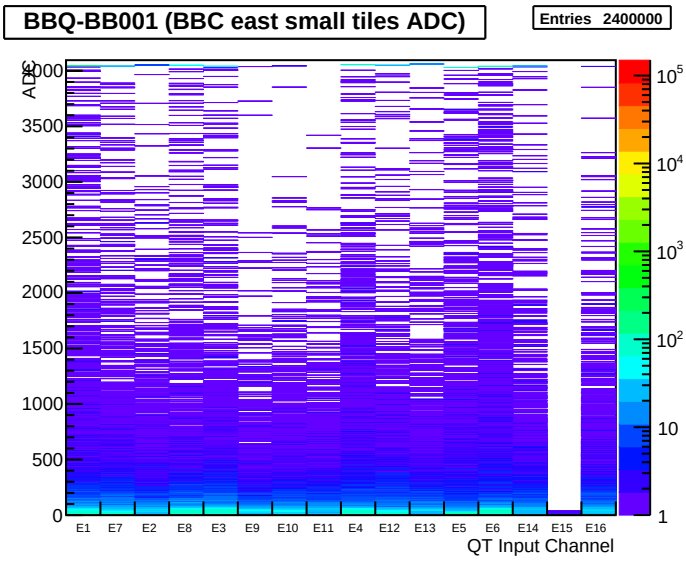

MIX-TF101
Entries 291603
TOF UPC-TH-EastHigh(Real-Simu)
145821
145852
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

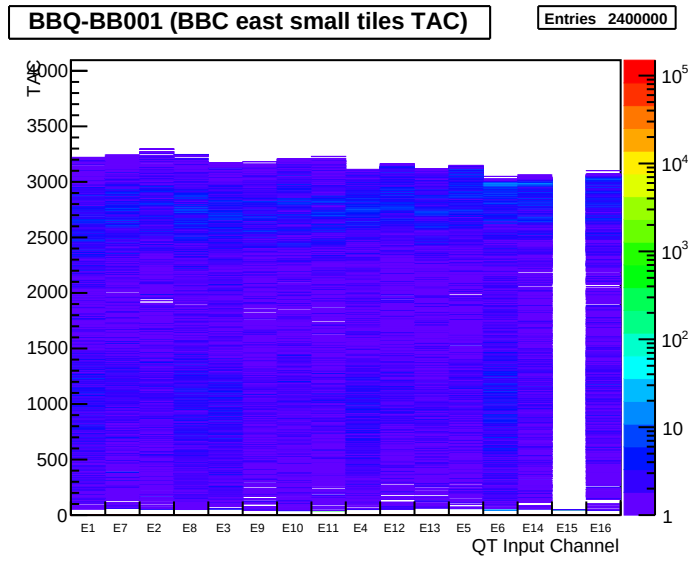

L2-TF201
Entries 150000
TOF total mult

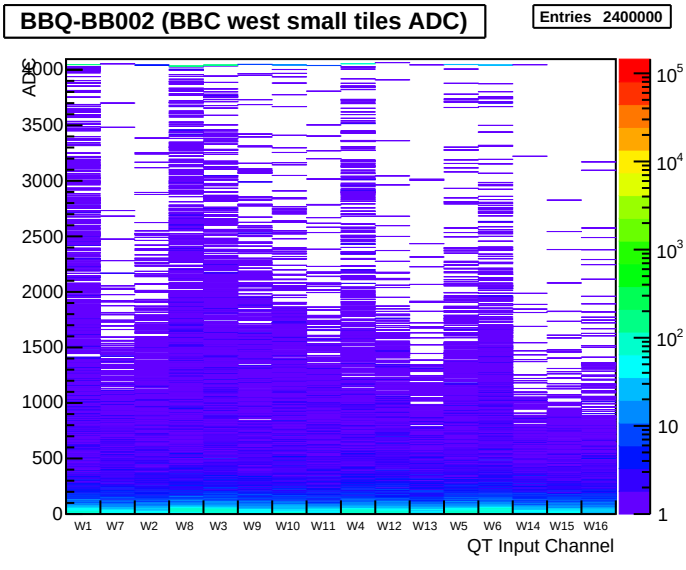

L2-TF201
Entries 0
TOF total mult(Real-Simu)

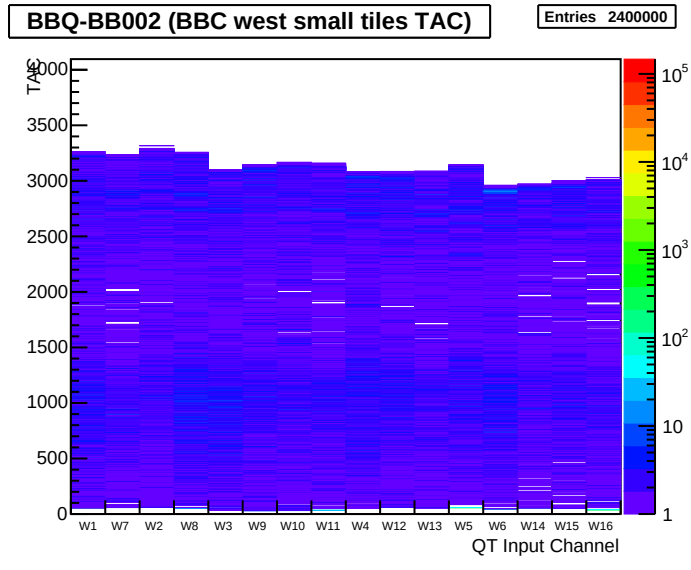

L2-TF201
Entries 1050000
Threshold/UPC bits
6786
7036
7004
6873
6570
8794
143214
142964
150000
142996
143127
143430
141206
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

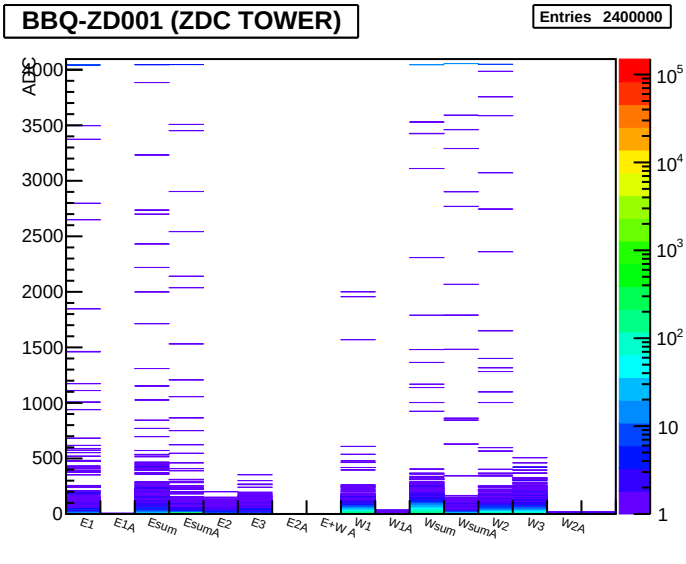

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

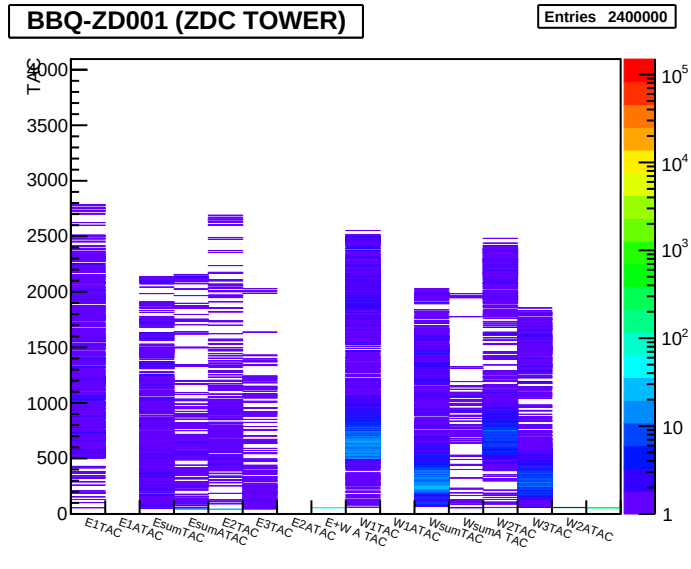

BBQ-BB001 (BBC east small tiles ADC)
Entries 2400000
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

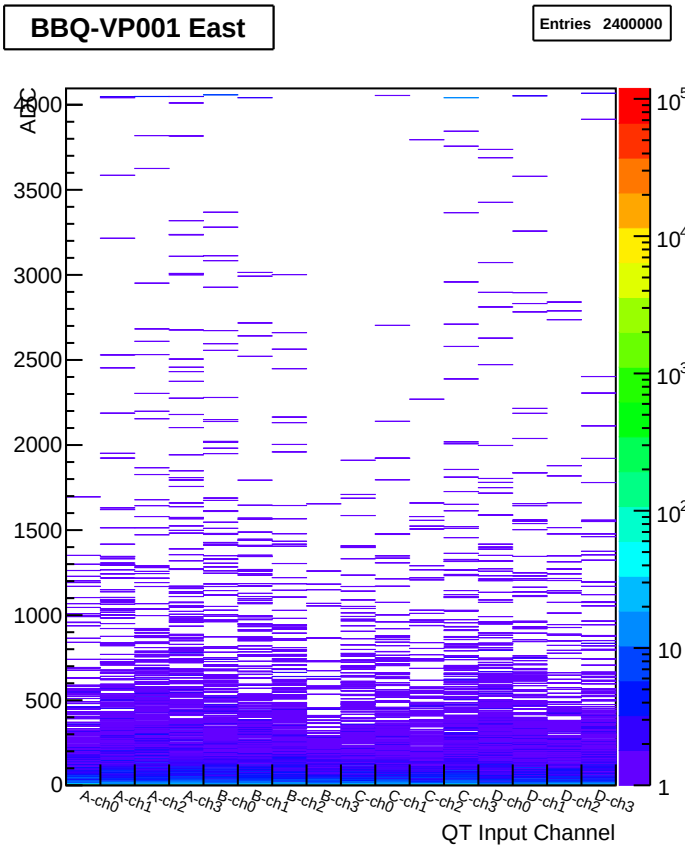

BBQ-BB001 (BBC east small tiles TAC)
Entries 2400000
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

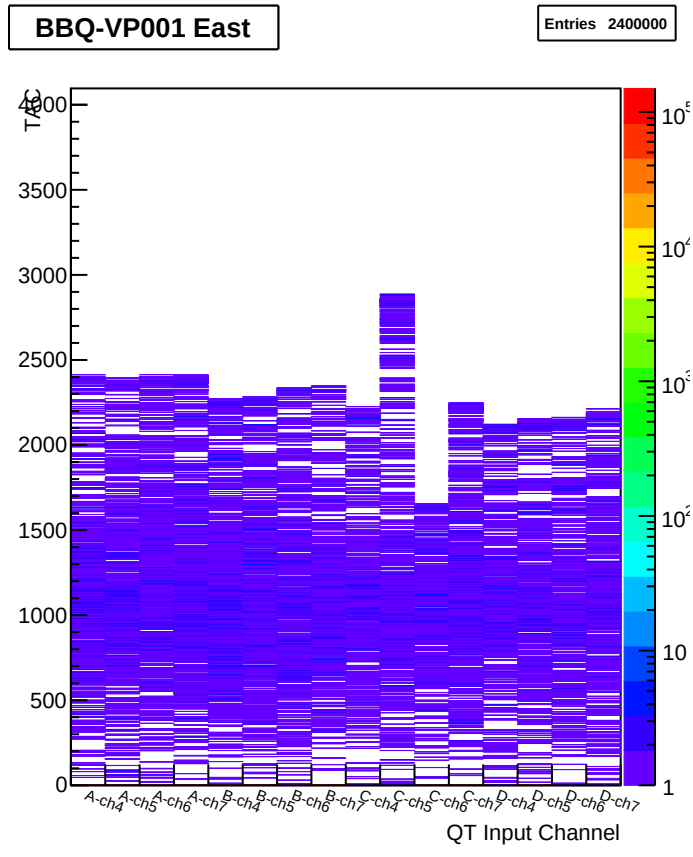

BBQ-BB002 (BBC west small tiles ADC)
Entries 2400000
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

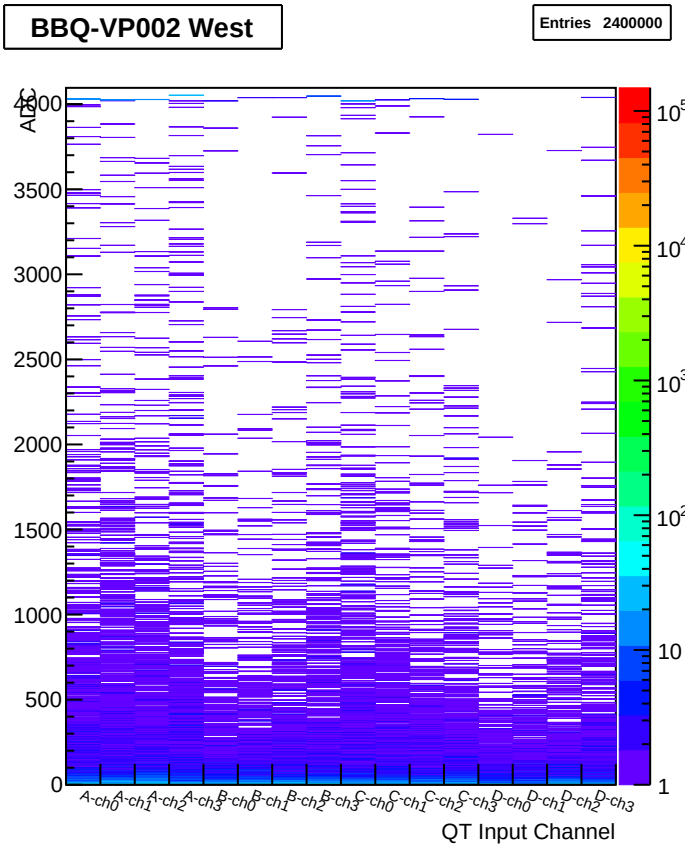

BBQ-BB002 (BBC west small tiles TAC)
Entries 2400000
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

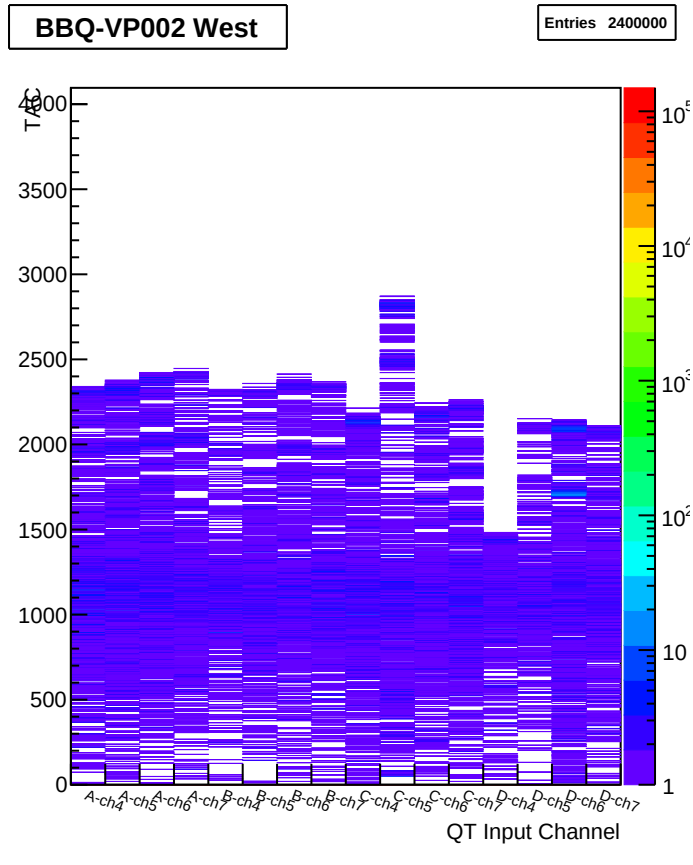

BBQ-ZD001 (ZDC TOWER)
Entries 2400000
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

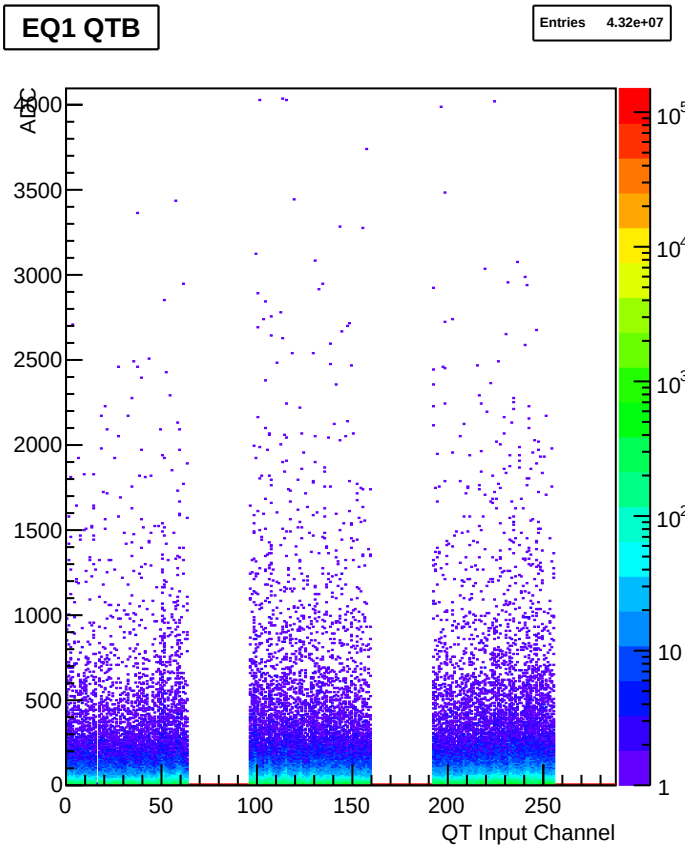

BBQ-ZD001 (ZDC TOWER)
Entries 2400000
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

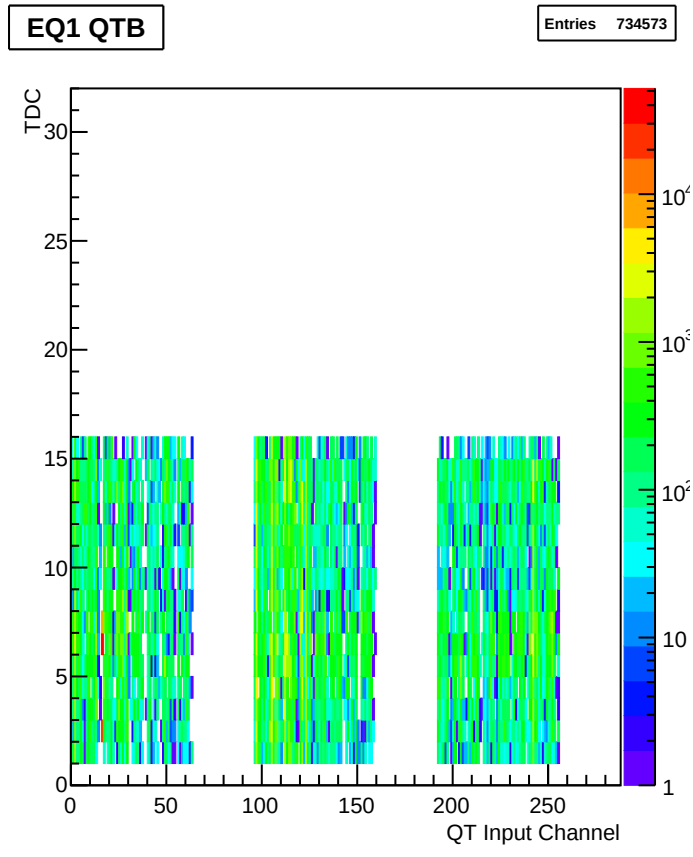

BBQ-VP001 East
Entries 2400000
ADC
QT Input Channel

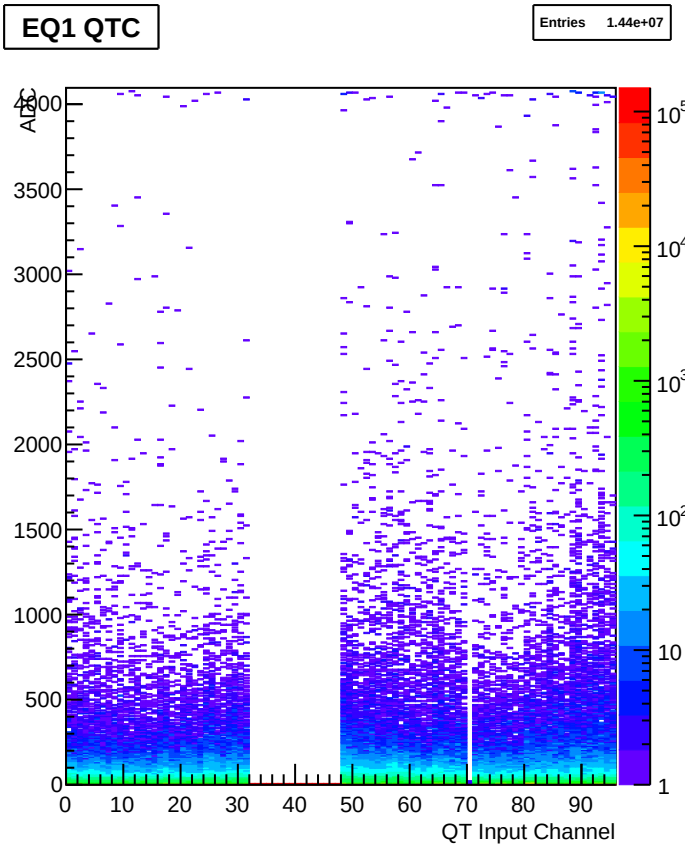

BBQ-VP001 East
Entries 2400000
TADC
QT Input Channel

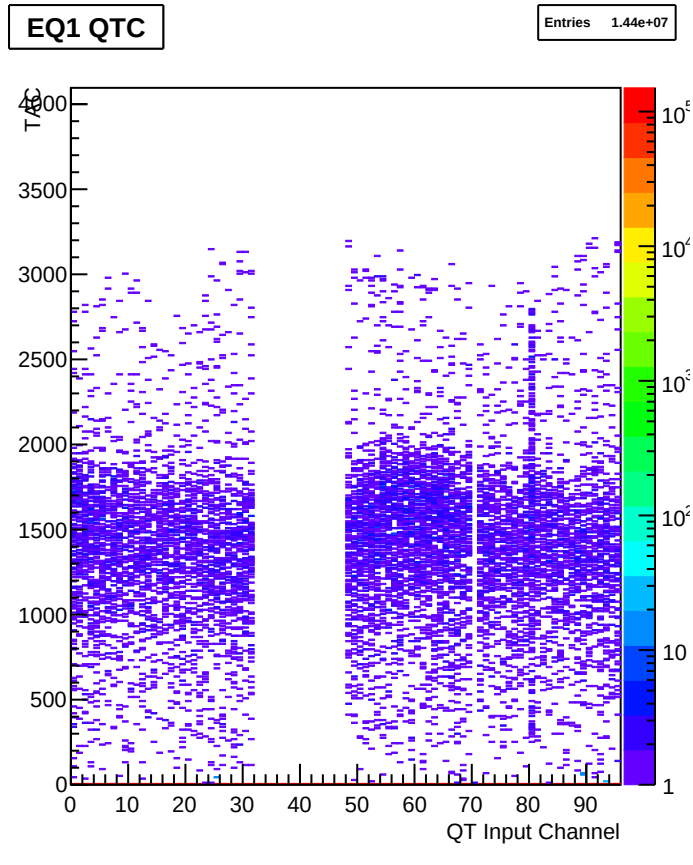

BBQ-VP002 West
Entries 2400000
ADC
QT Input Channel

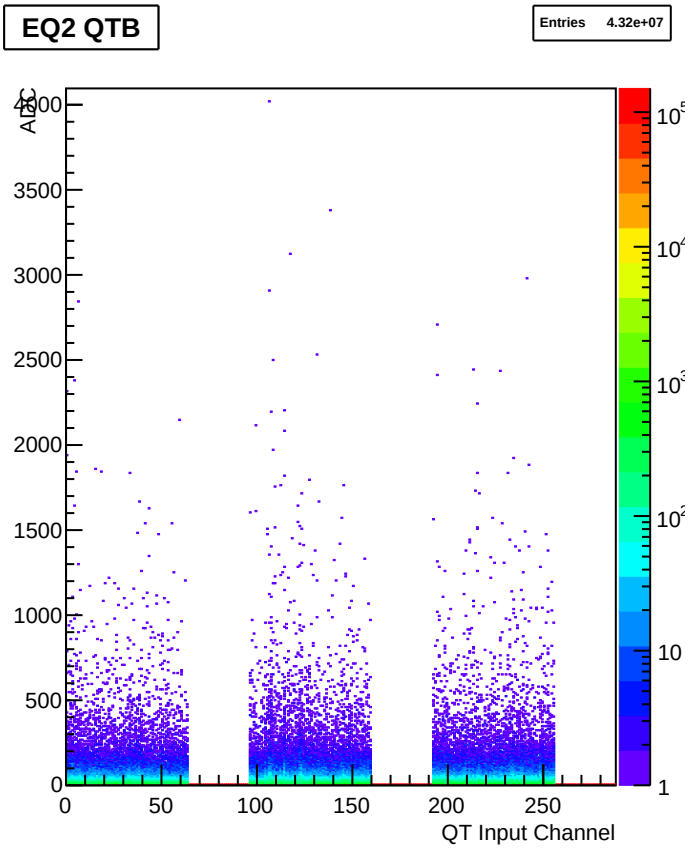

BBQ-VP002 West
Entries 2400000
TADC
QT Input Channel

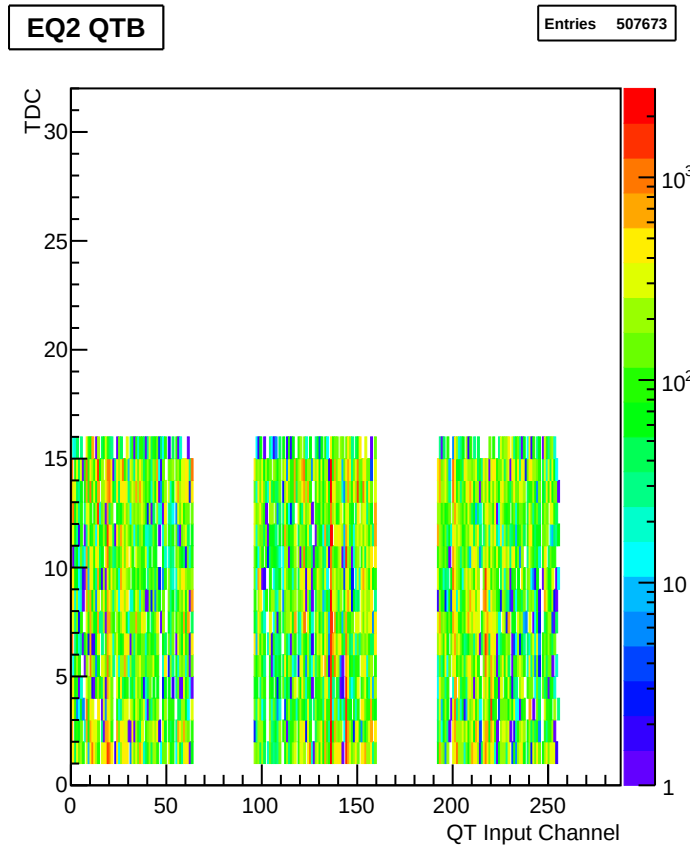

EQ1 QTB
Entries 4.32e+07
ADC
QT Input Channel

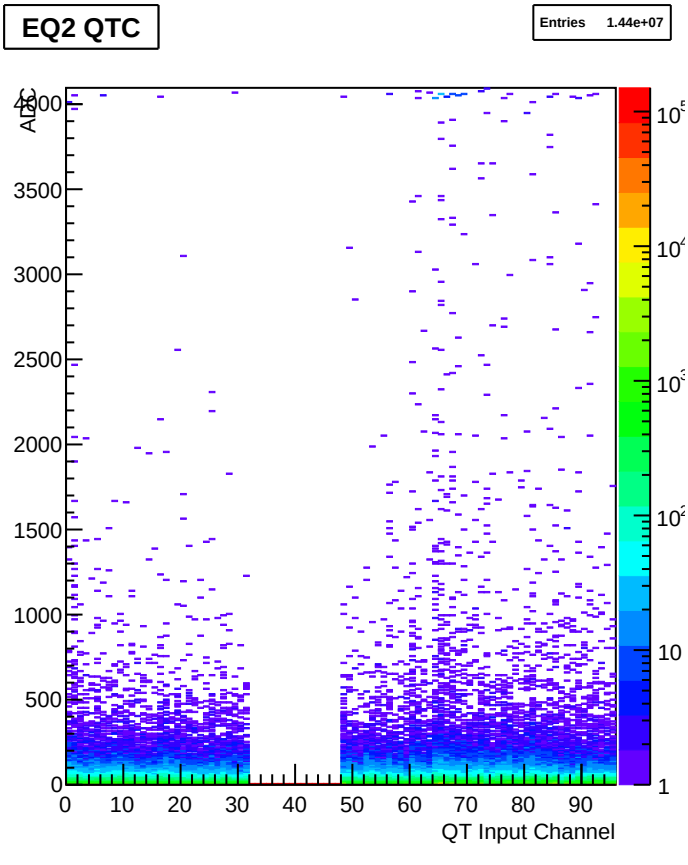

EQ1 QTB
Entries 734573
TDC
QT Input Channel

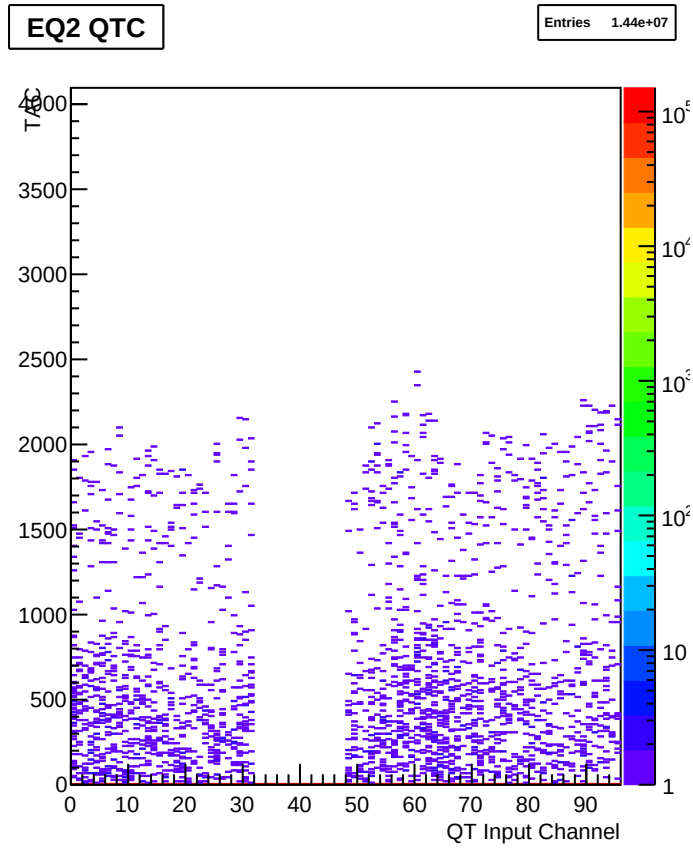

EQ1 QTC
Entries 1.44e+07
ADC
QT Input Channel

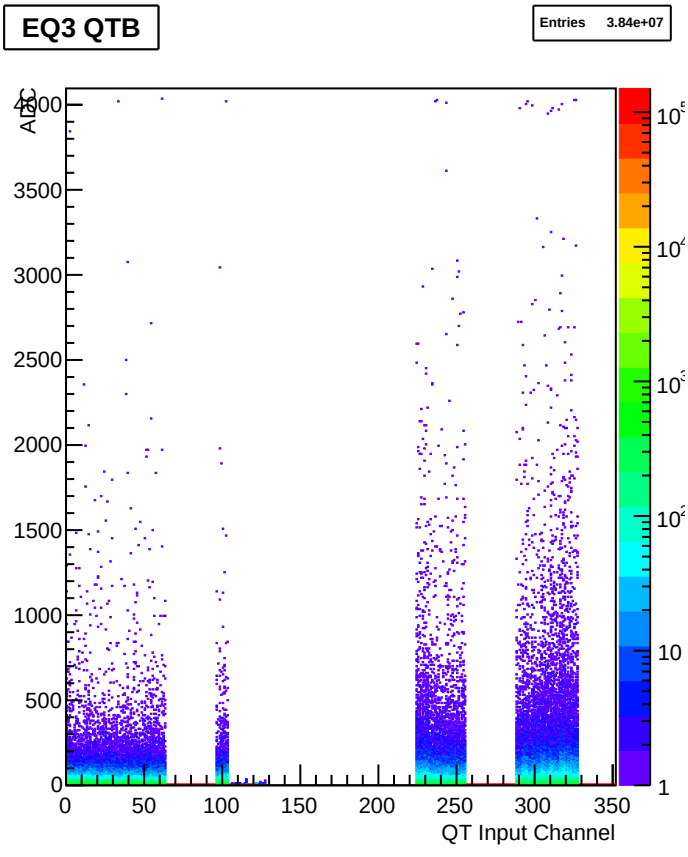

EQ1 QTC
Entries 1.44e+07
TADC
QT Input Channel

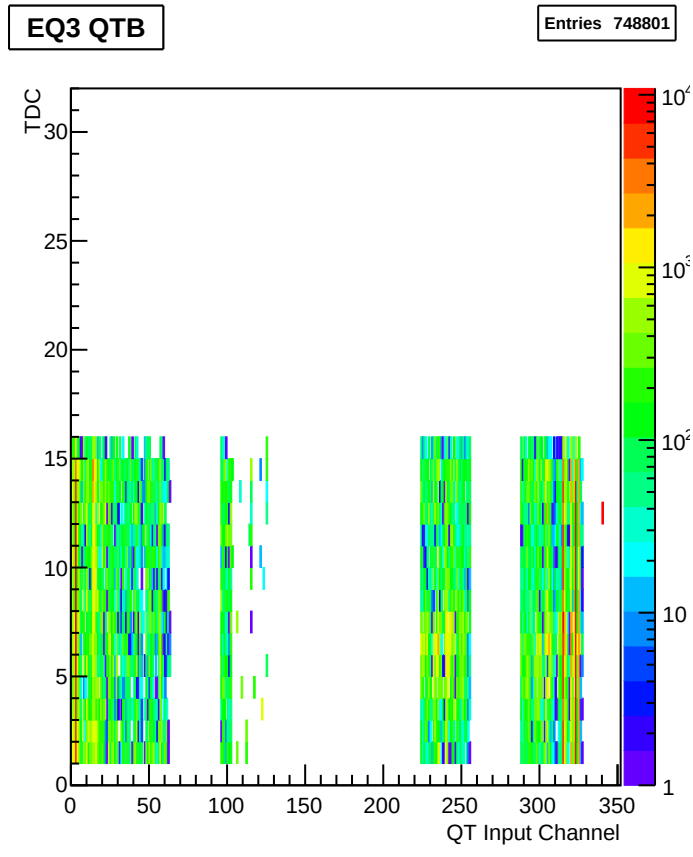

EQ2 QTB
Entries 4.32e+07
ADC
QT Input Channel

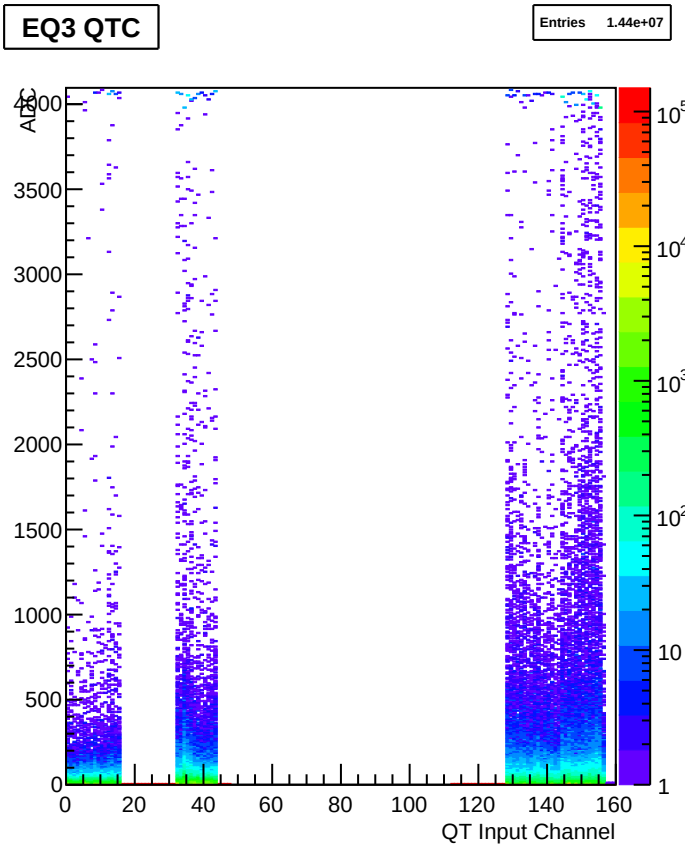

EQ2 QTB
Entries 507673
TDC
QT Input Channel

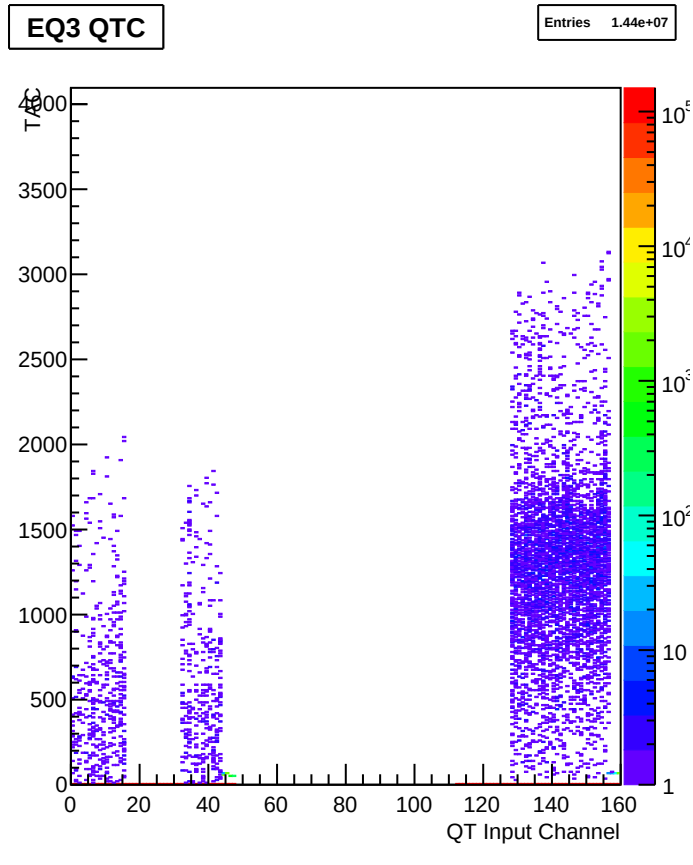

EQ2 QTC
Entries 1.44e+07
ADC
QT Input Channel


EQ2 QTC
Entries 1.44e+07
TADC
QT Input Channel


EQ3 QTB
Entries 3.84e+07
ADC
QT Input Channel


EQ3 QTB
Entries 748801
TDC
QT Input Channel


EQ3 QTC
Entries 1.44e+07
ADC
QT Input Channel


EQ3 QTC
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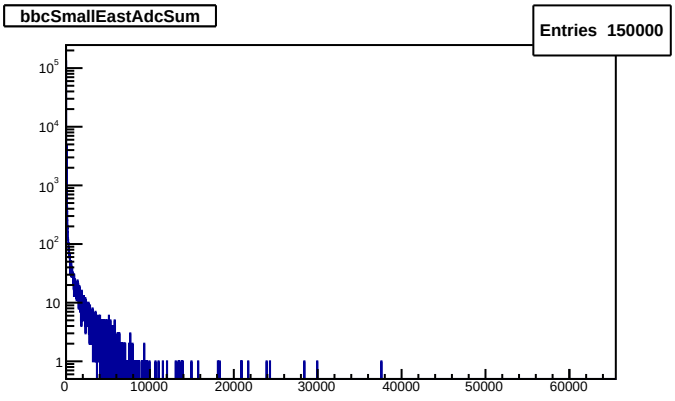
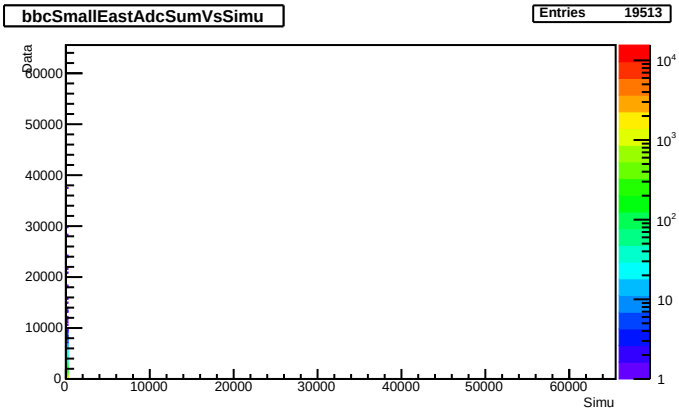
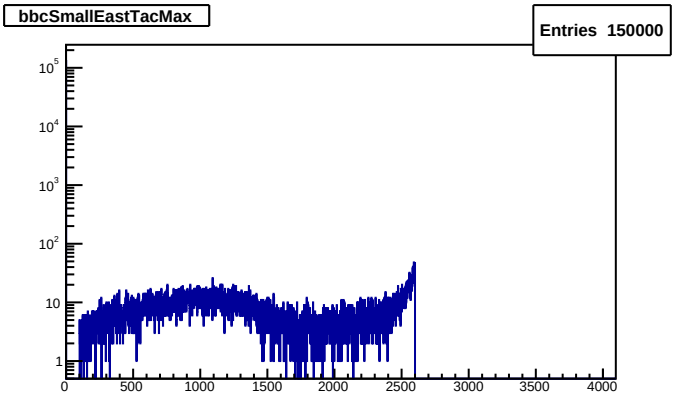
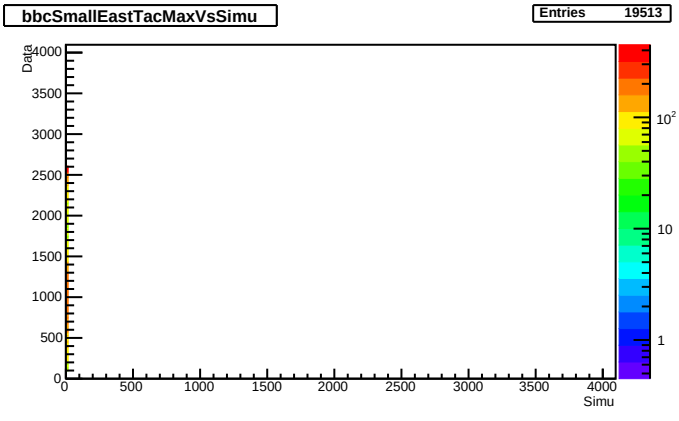
QT Input Channel


bbcSmallEastAdcSum
Entries 150000


bbcSmallEastAdcSumVsSimu
Entries 19513
Data
Simu


bbcSmallEastTacMax
Entries 150000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Entries 19513
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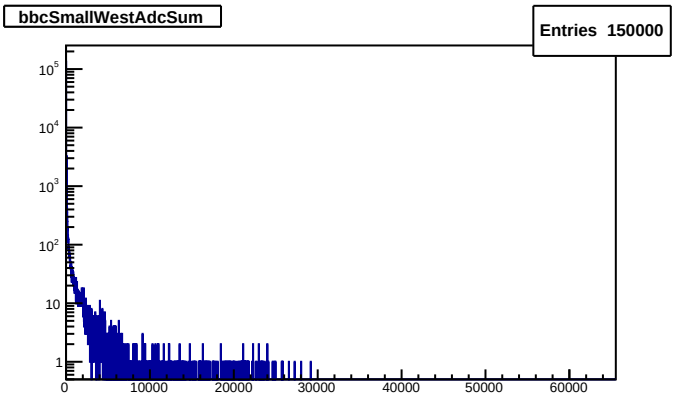
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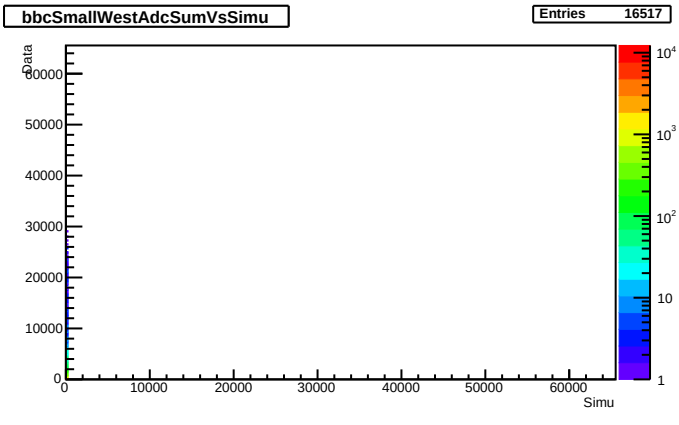
Entries 150000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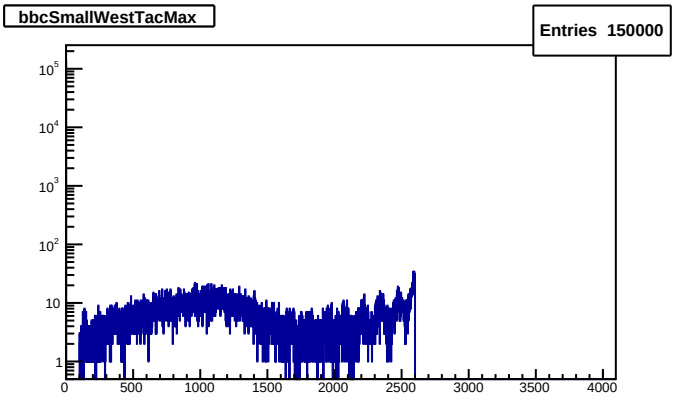
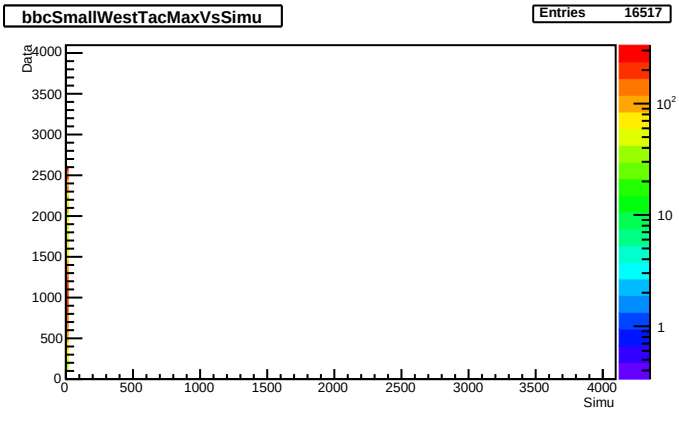
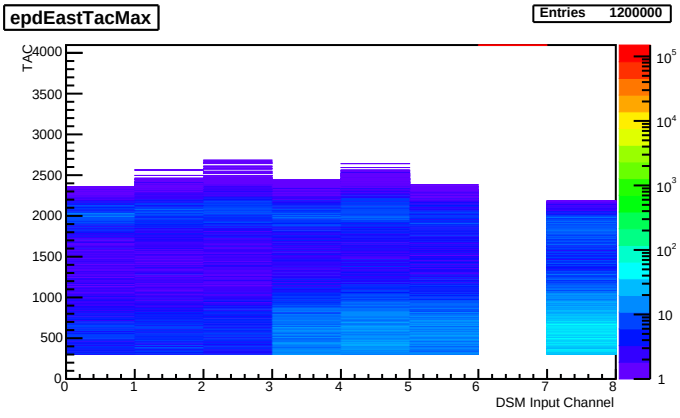
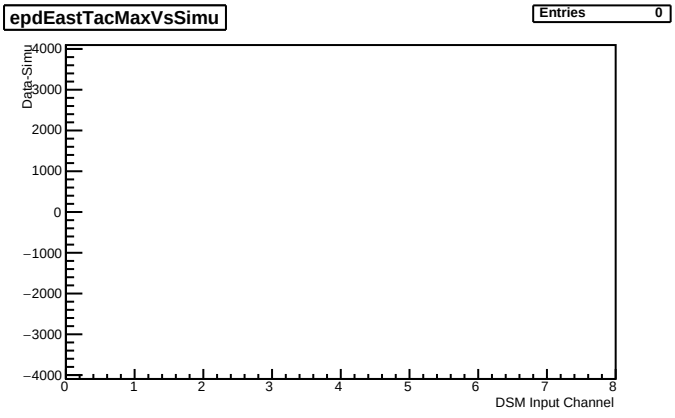
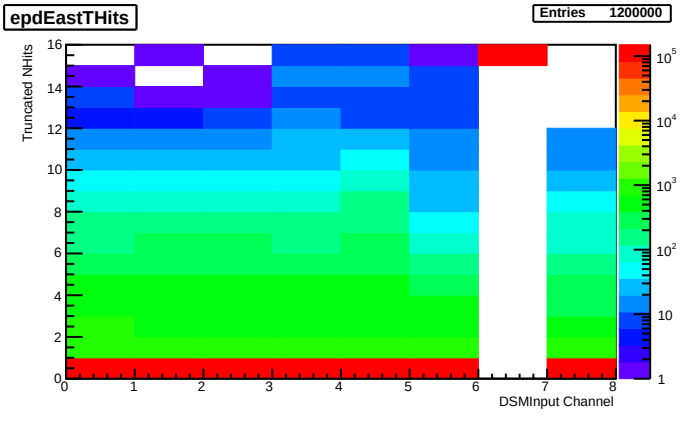
Entries 16517
Data
Simu

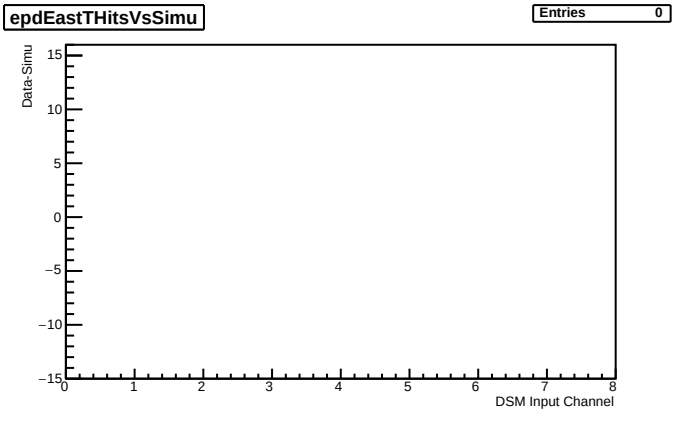

bbcSmallWestTacMax
Entries 150000


bbcSmallWestTacMaxVsSimu
Entries 16517
Data
Simu


epdEastTacMax
Entries 1200000
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 1200000
Truncated NHits
DSMInput Channel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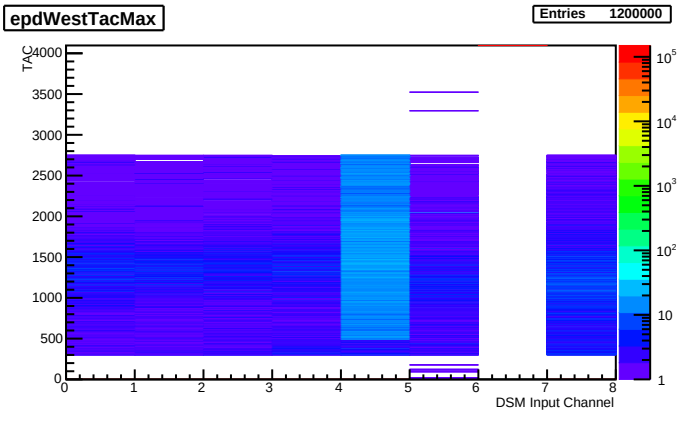
Data-Simu
DSM Input Channel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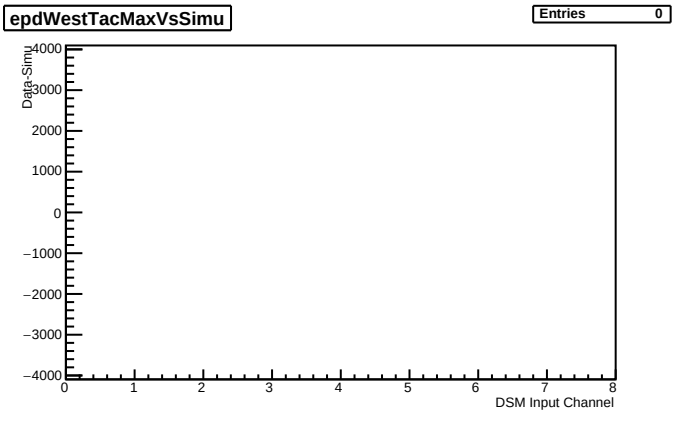
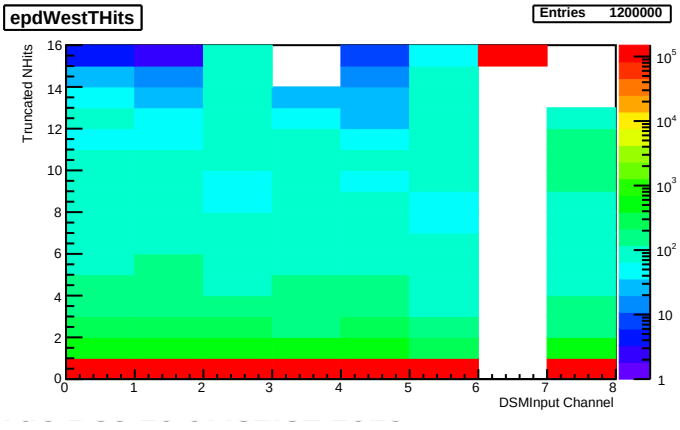
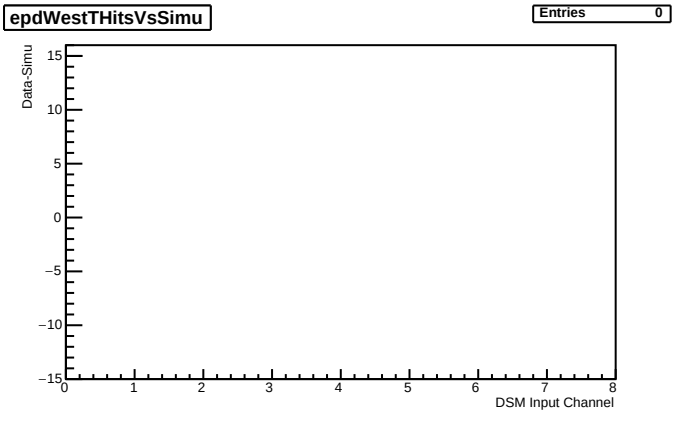
Entries 1200000
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 1200000
Truncated NHits
DSMInput Channel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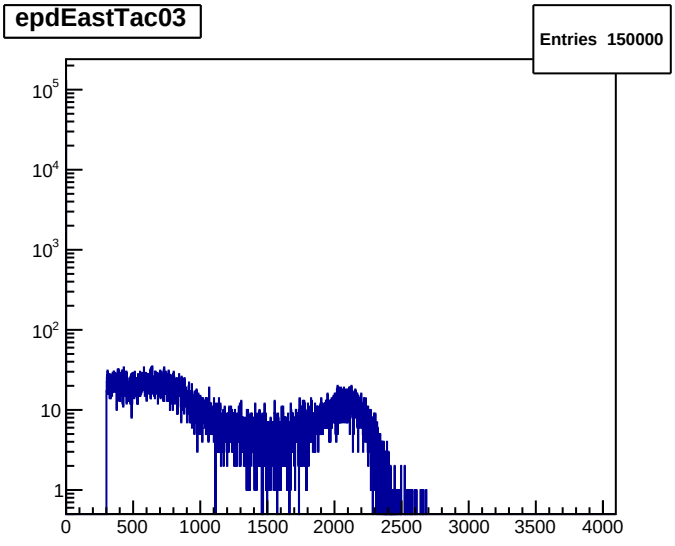
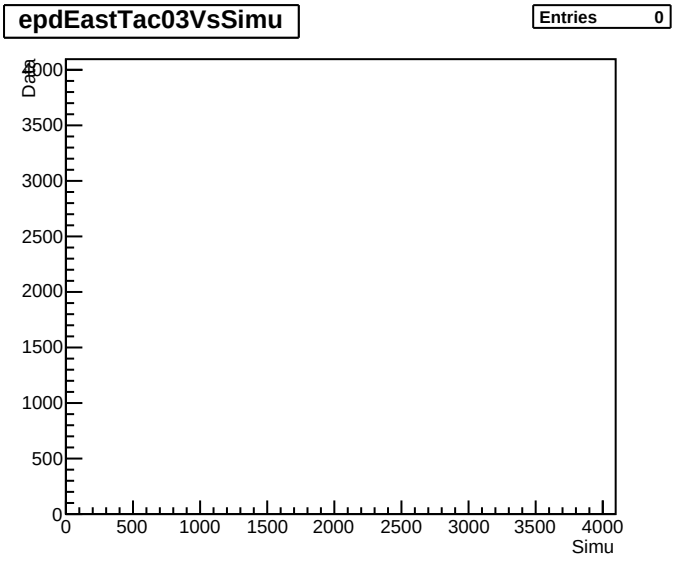
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 150000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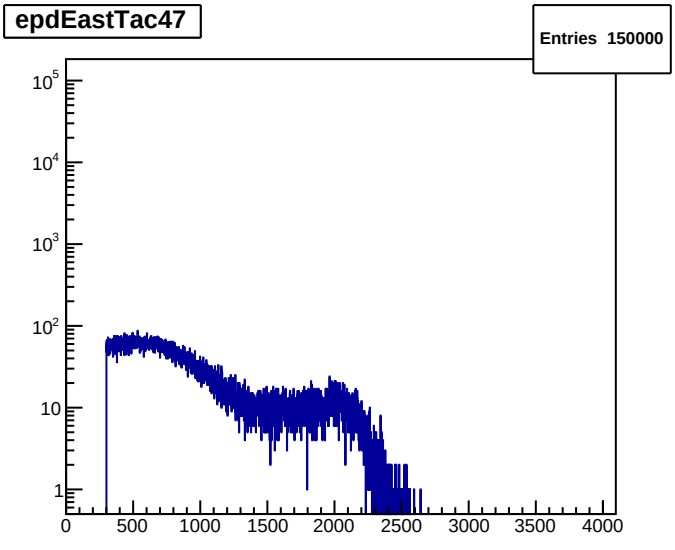
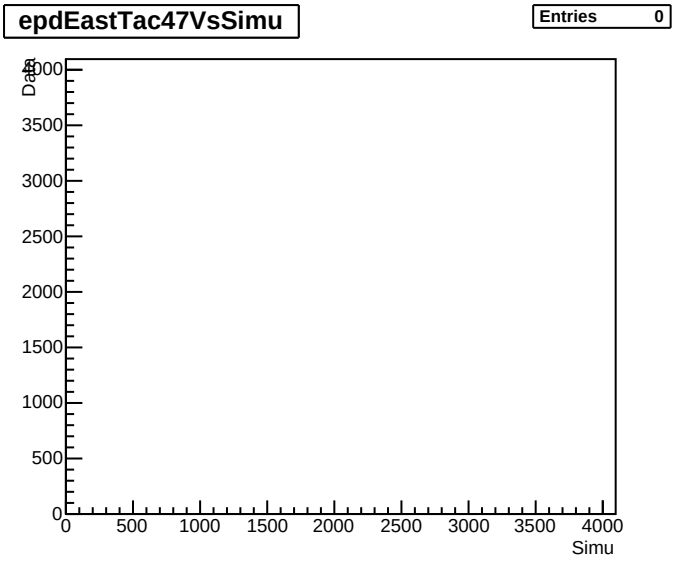
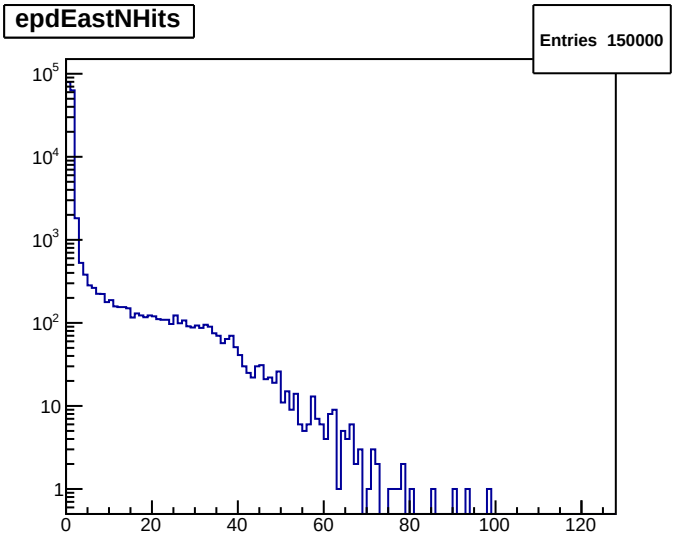
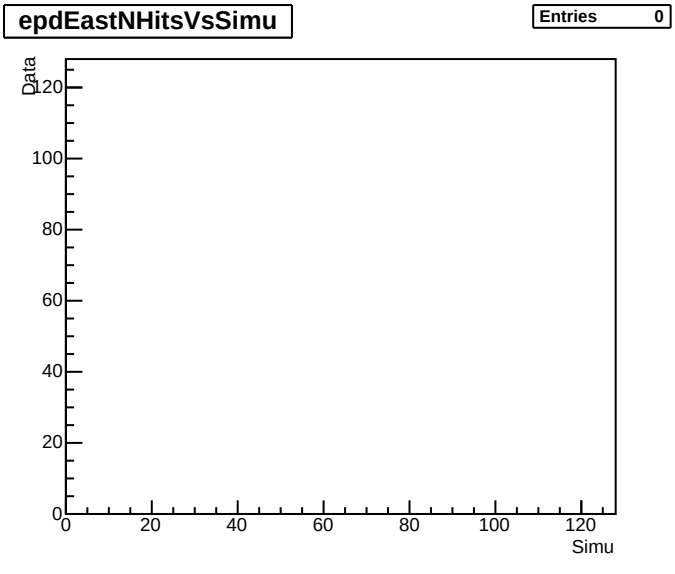
Entries 0
Data
Simu


epdEastTac47
Entries 150000


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 150000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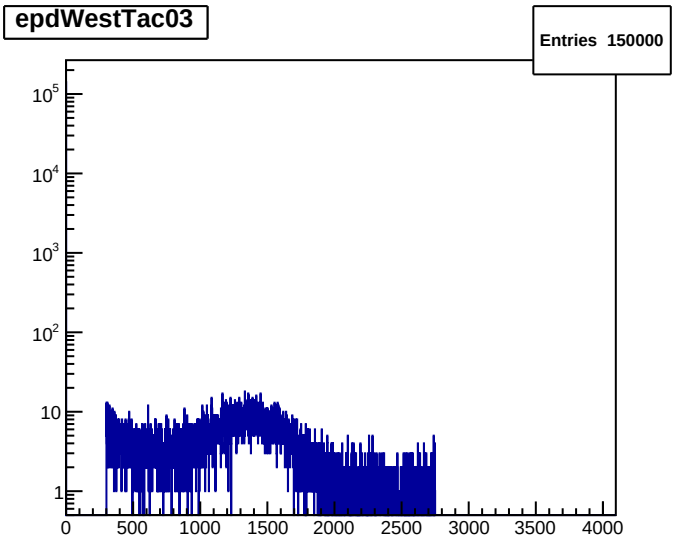
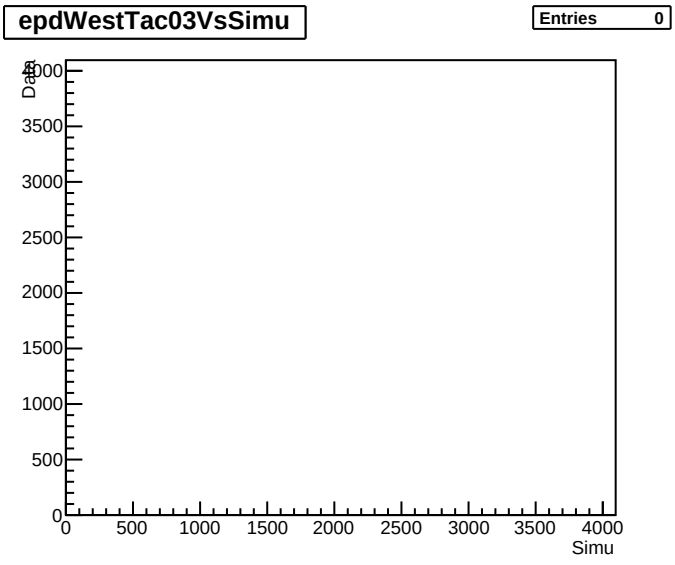
Entries 0
Data
Simu


epdWestTac03
Entries 150000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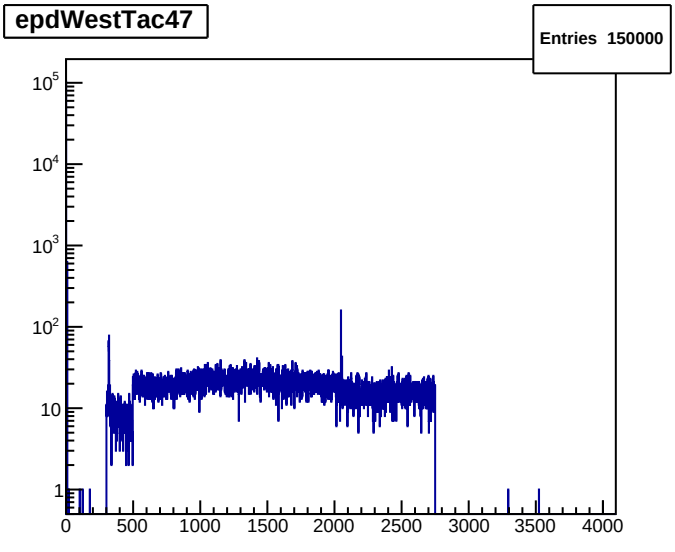
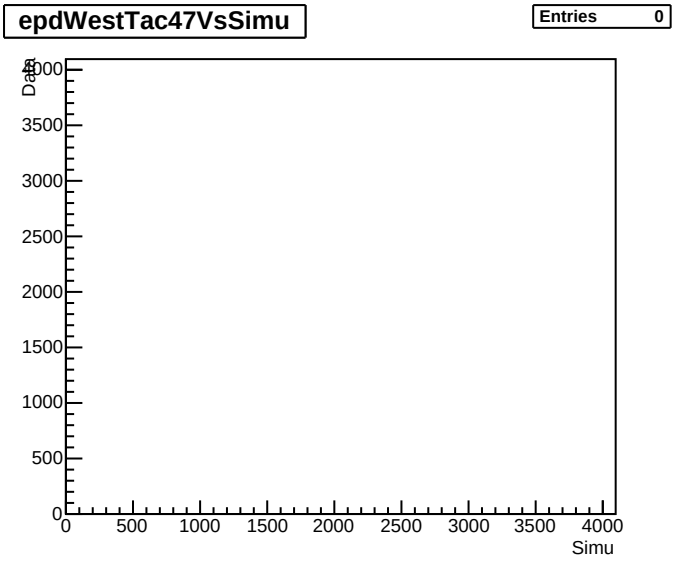
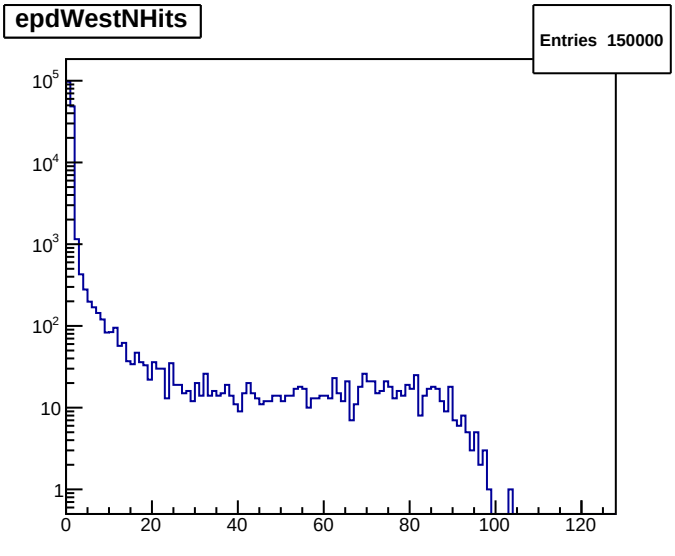
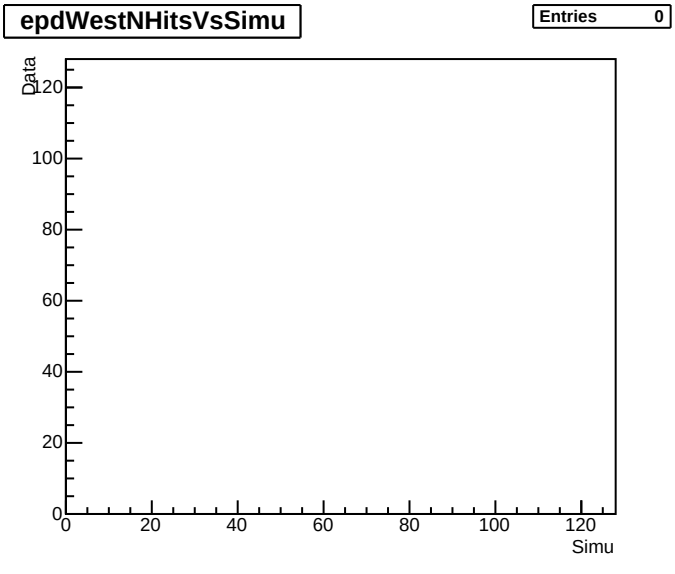
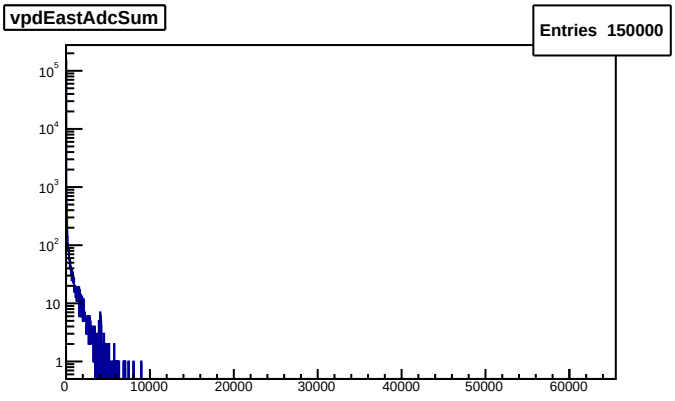
Entries 0
Data
Simu

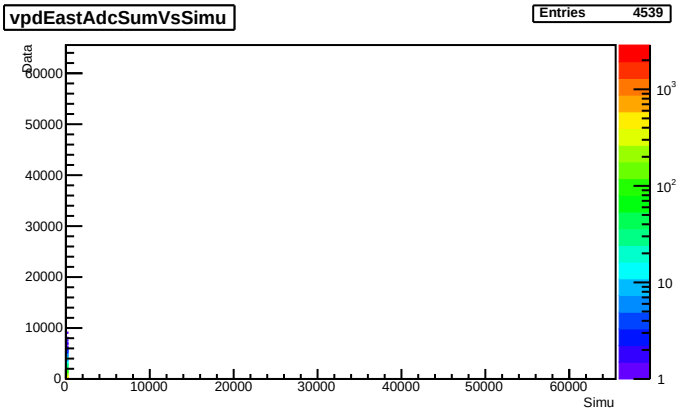

epdWestTac47
Entries 150000

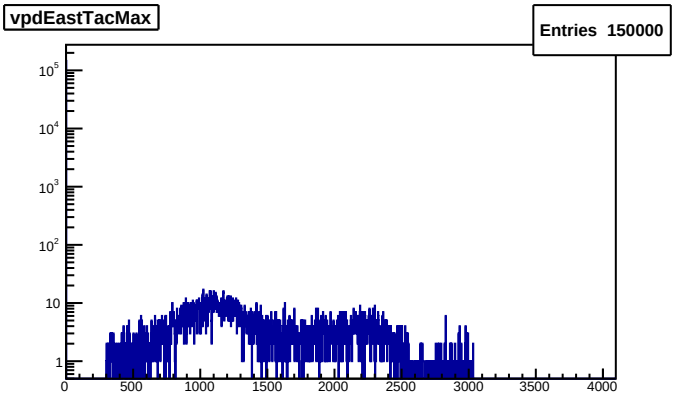

epdWestTac47VsSimu
Entries 0
Data
Simu

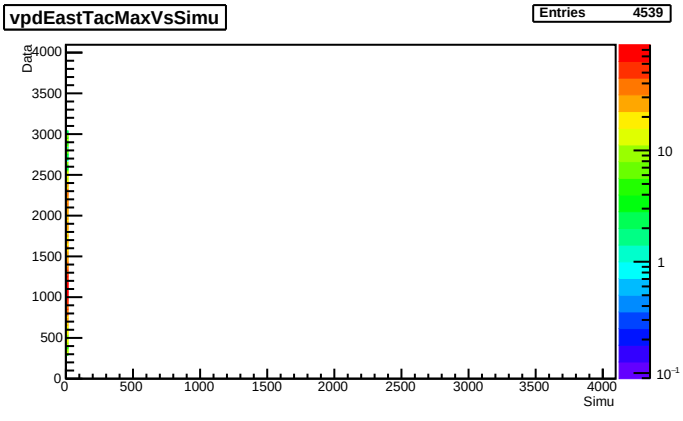

epdWestNHits
Entries 150000


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 150000


vpdEastAdcSumVsSimu
Entries 4539
Data
Simu


vpdEastTacMax
Entries 150000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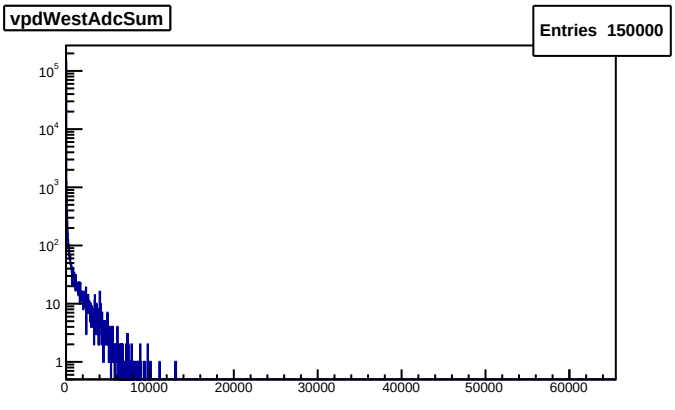
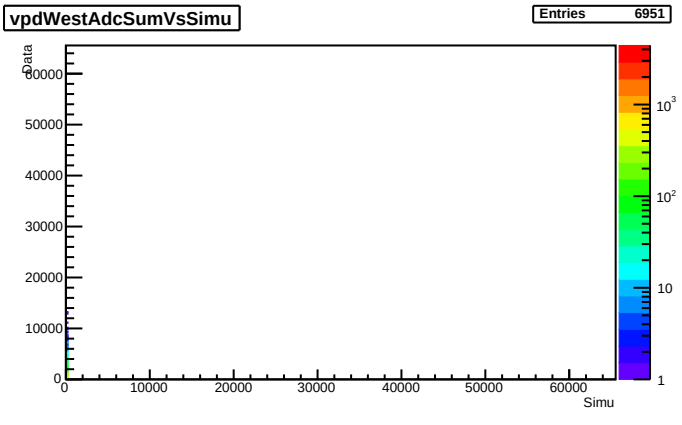
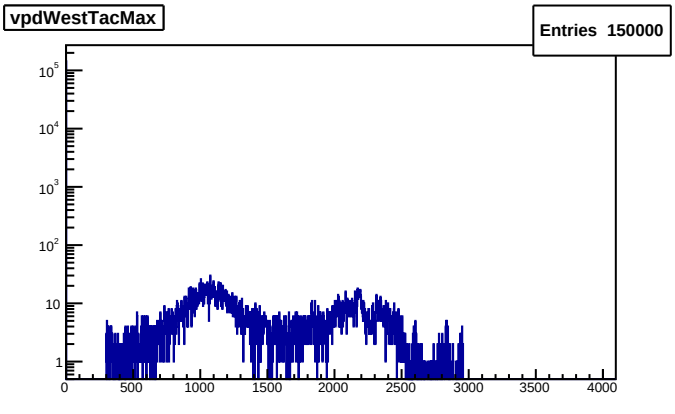
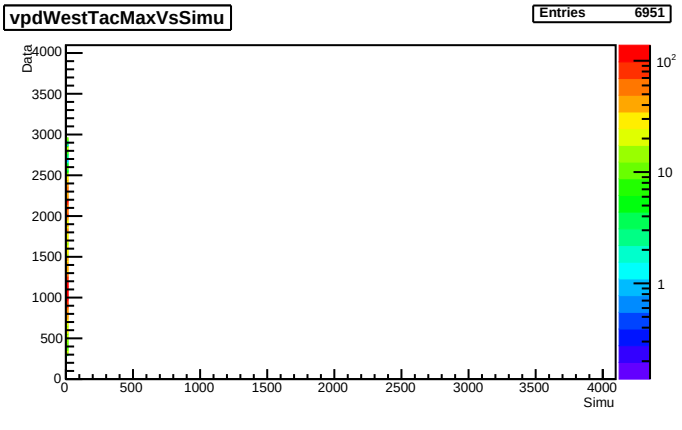
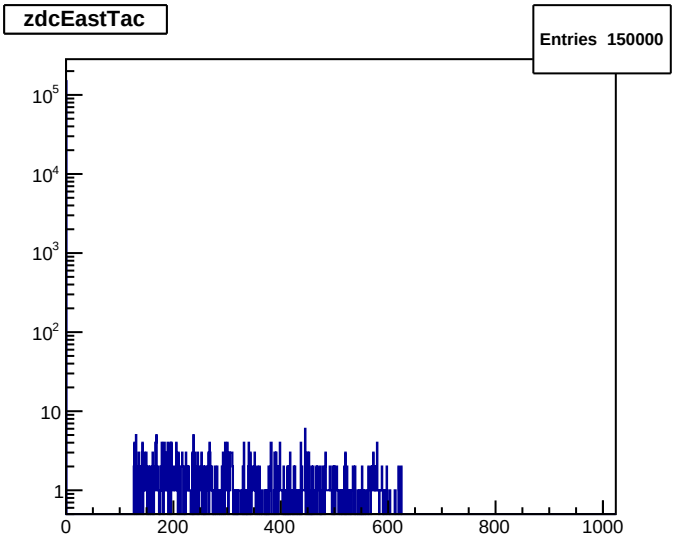
Entries 4539
Data
Simu

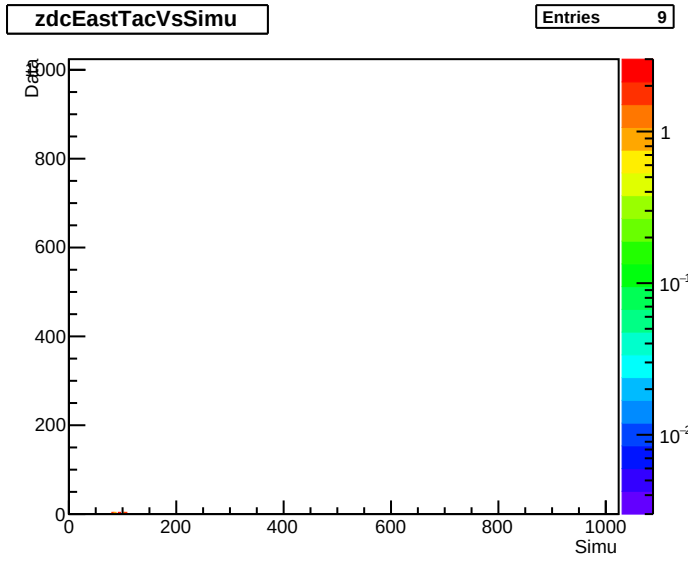

vpdWestAdcSum
Entries 150000

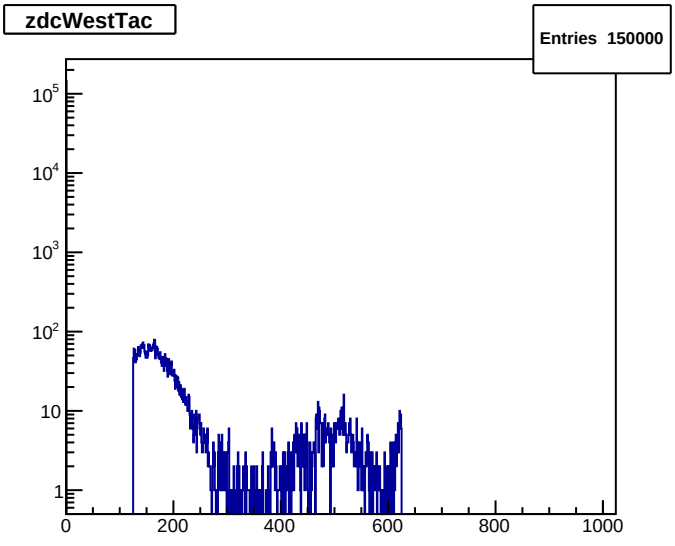

vpdWestAdcSumVsSimu
Entries 6951
Data
Simu

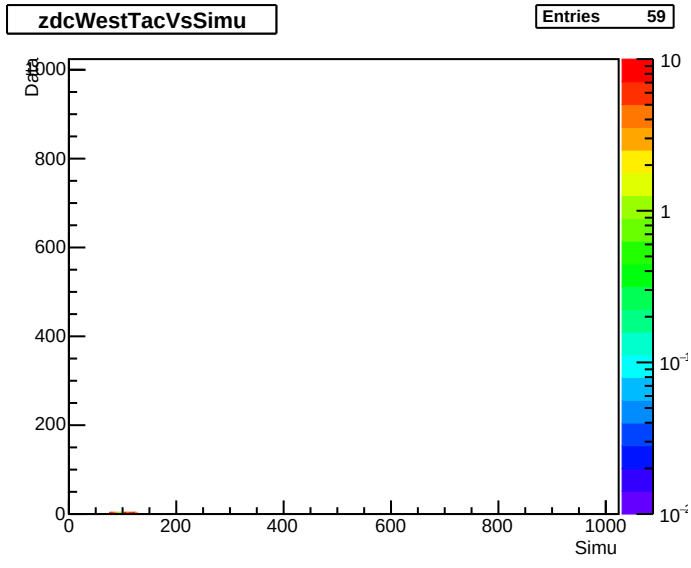

vpdWestTacMax
Entries 150000

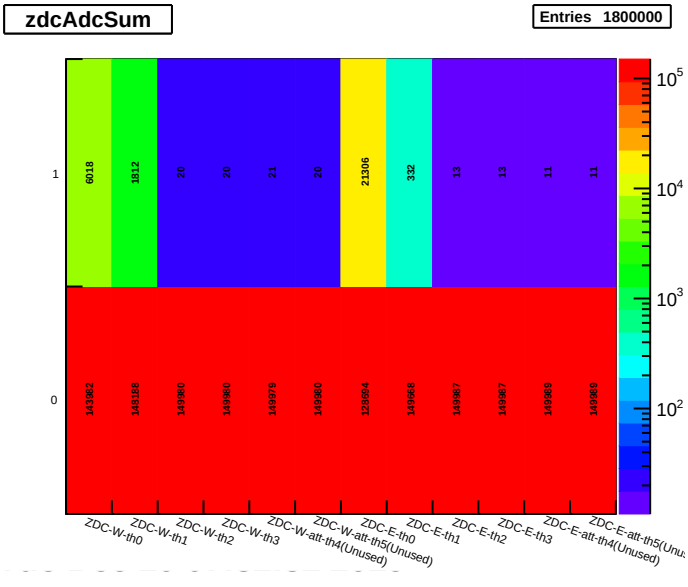

vpdWestTacMaxVsSimu
Entries 6951
Data
Simu

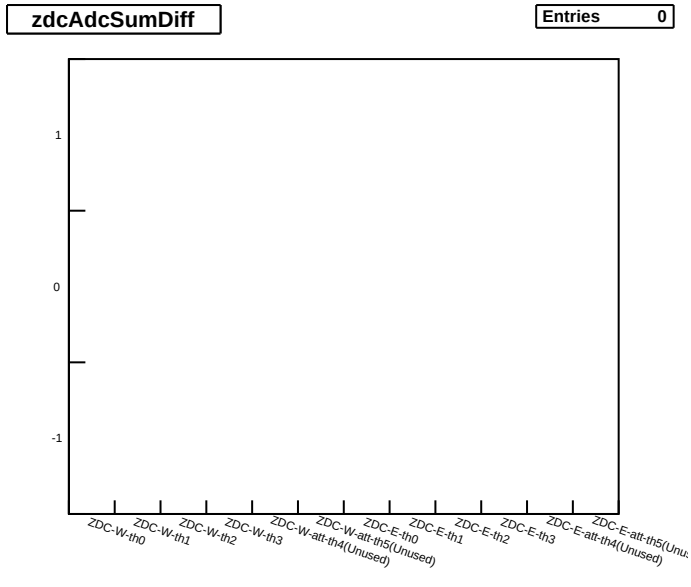

zdcEastTac
Entries 150000

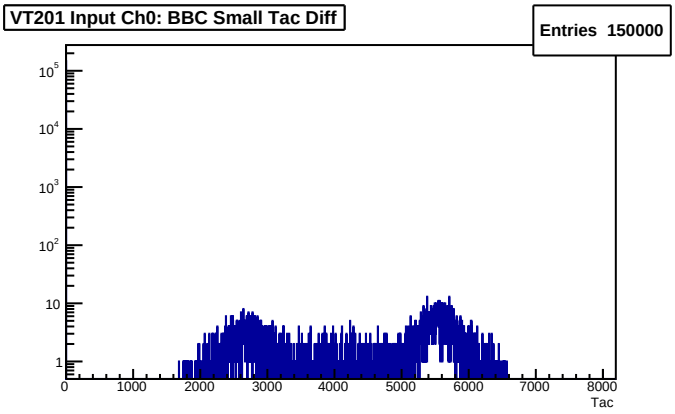

zdcEastTacVsSimu
Entries 9
Data
Simu

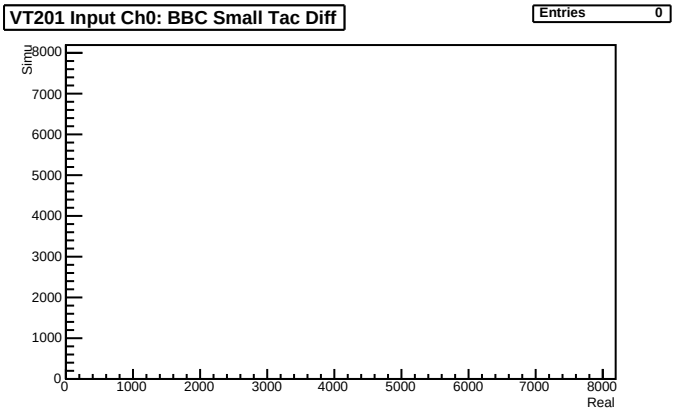

zdcWestTac
Entries 150000

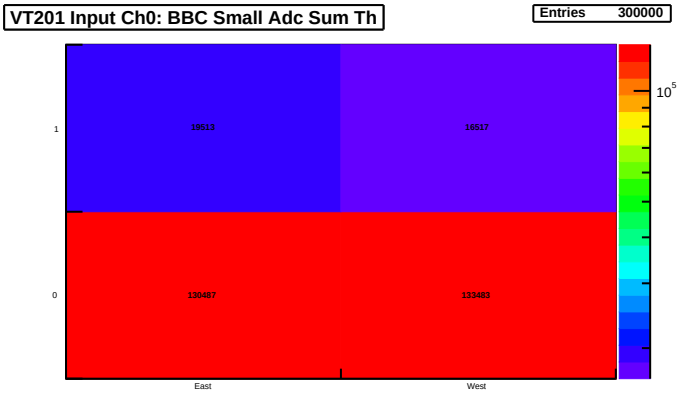

zdcWestTacVsSimu
Entries 59
Data
Simu

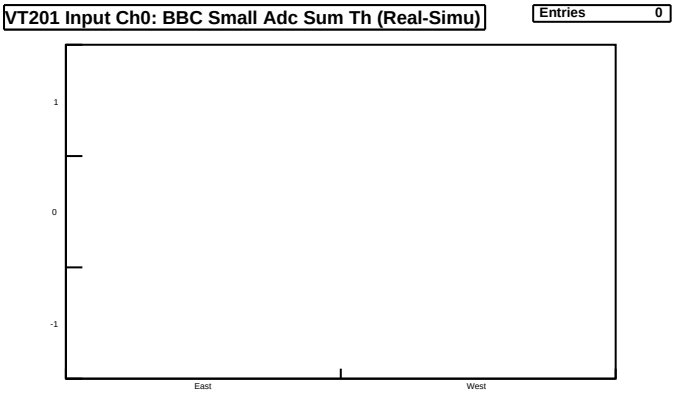

zdcAdcSum
Entries 1800000
6018
1812
20
20
21
20
21306
332
13
13
11
11
143982
148188
149980
149980
149979
149980
128694
149668
149987
149987
149989
149989
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

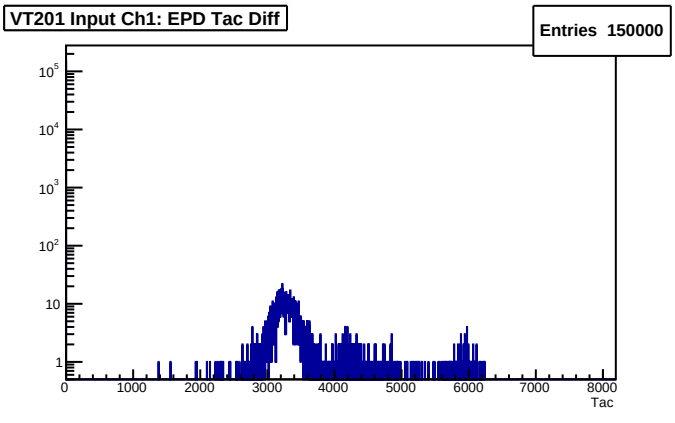

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

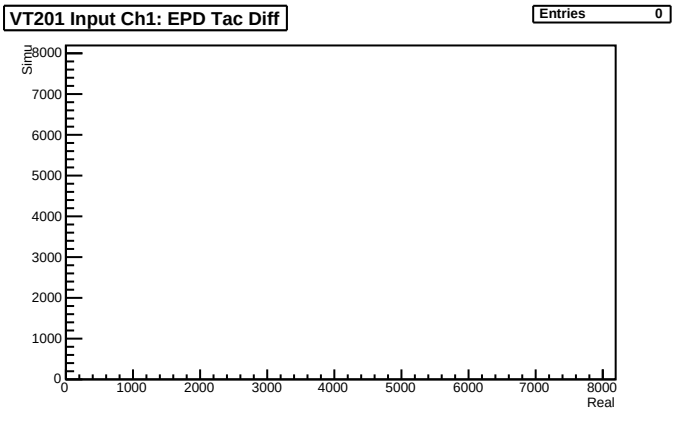

VT201 Input Ch0: BBC Small Tac Diff
Entries 150000
Tac

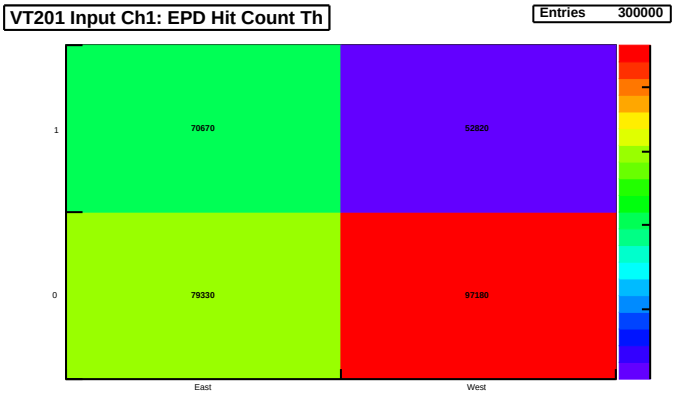

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

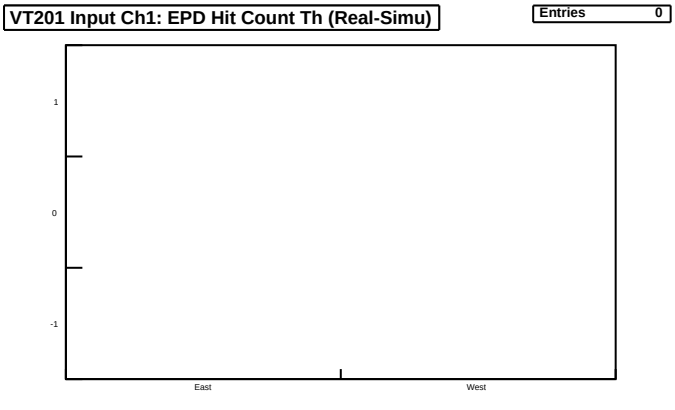

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 300000
19513
16517
130487
133483
East
West

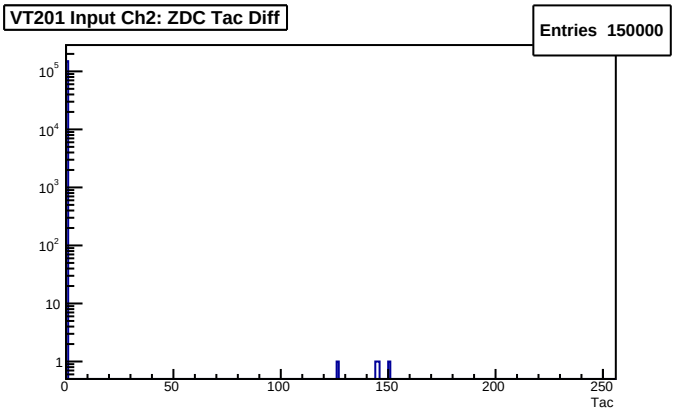

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

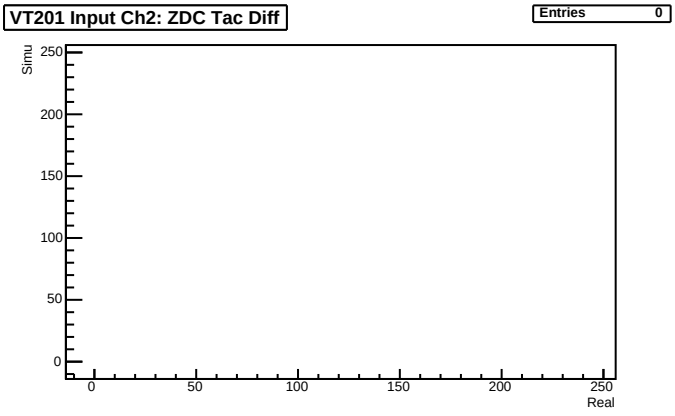

VT201 Input Ch1: EPD Tac Diff
Entries 150000
Tac

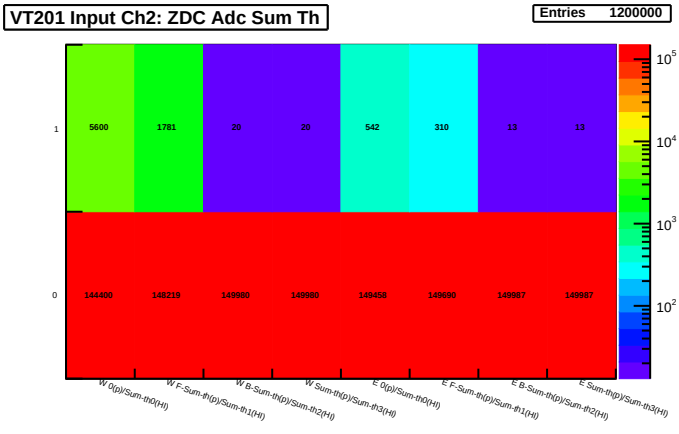

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

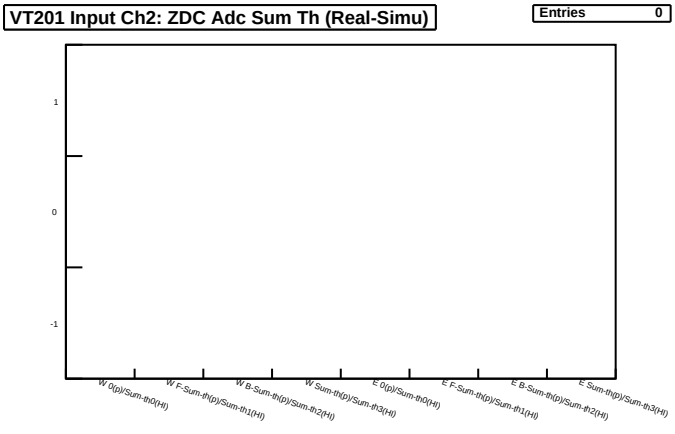

VT201 Input Ch1: EPD Hit Count Th
Entries 300000
70670
52820
79330
97180
East
West

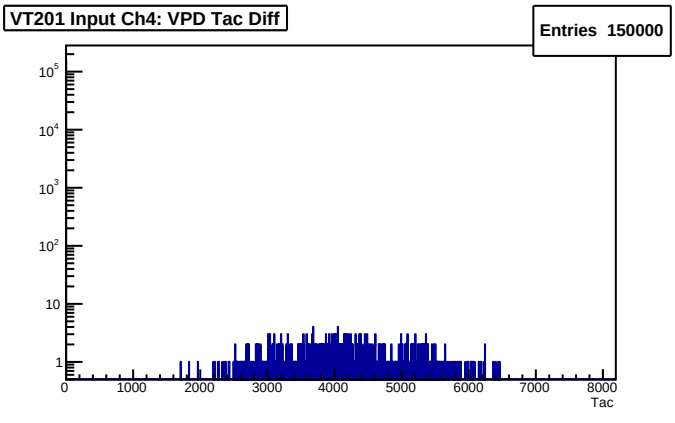

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

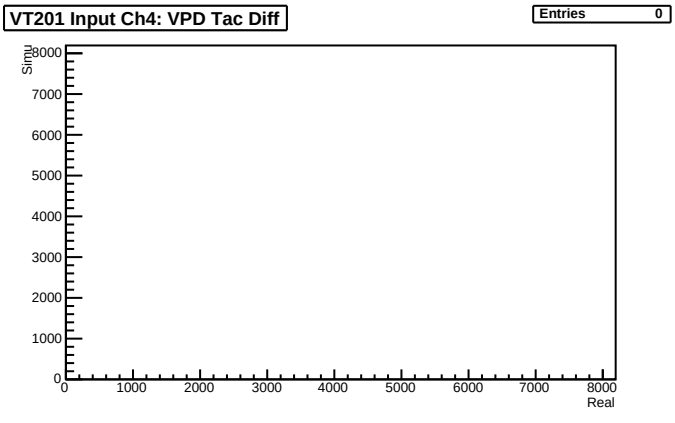

VT201 Input Ch2: ZDC Tac Diff
Entries 150000
Tac

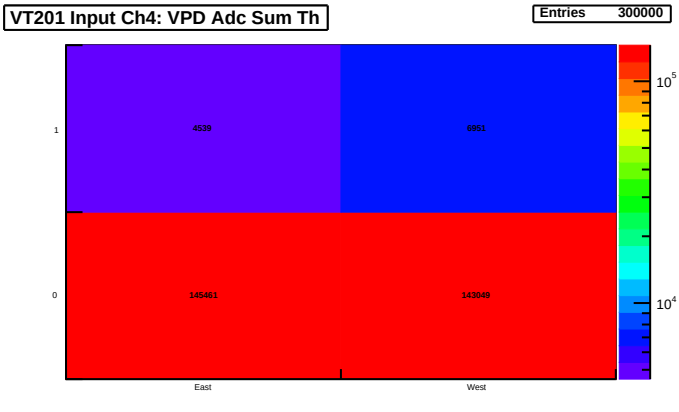

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

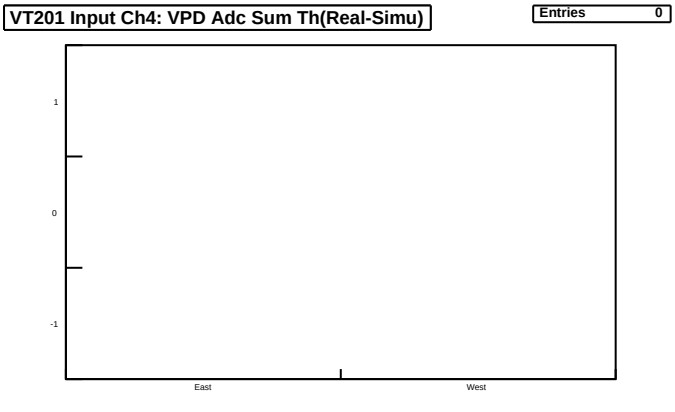

VT201 Input Ch2: ZDC Adc Sum Th
Entries 1200000
5600
1781
20
20
542
310
13
13
144400
148219
149980
149980
149458
149690
149987
149987
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

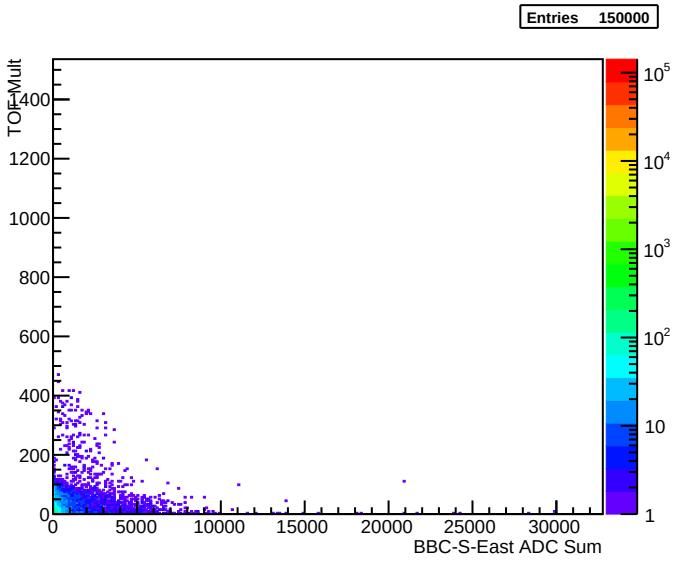

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

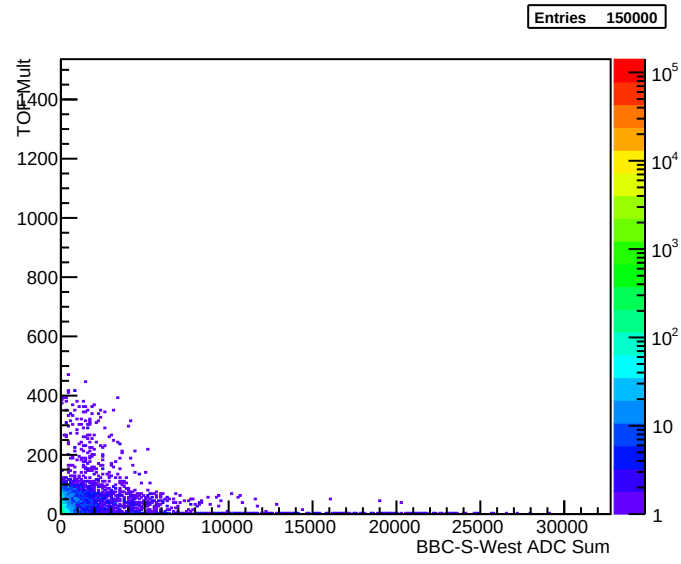

VT201 Input Ch4: VPD Tac Diff
Entries 150000
Tac

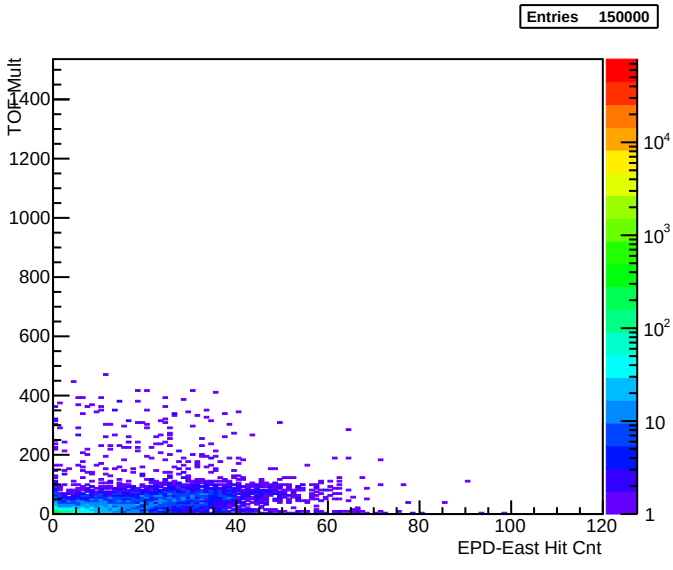

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

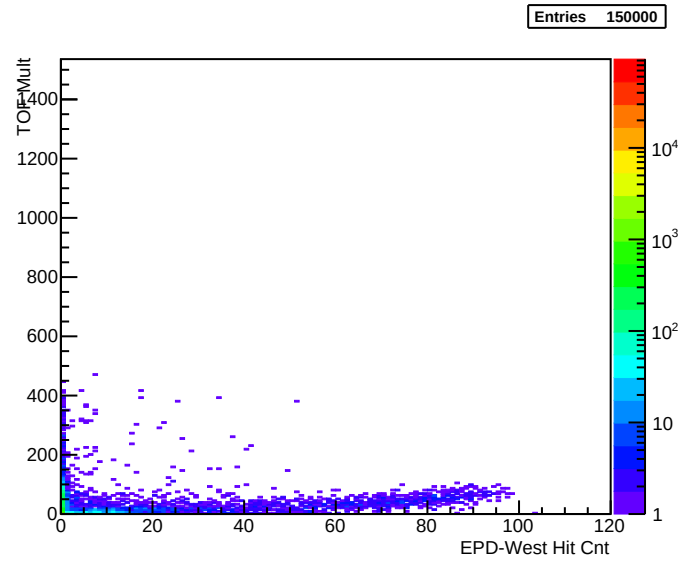

VT201 Input Ch4: VPD Adc Sum Th
Entries 300000
4539
6951
145461
143049
East
West

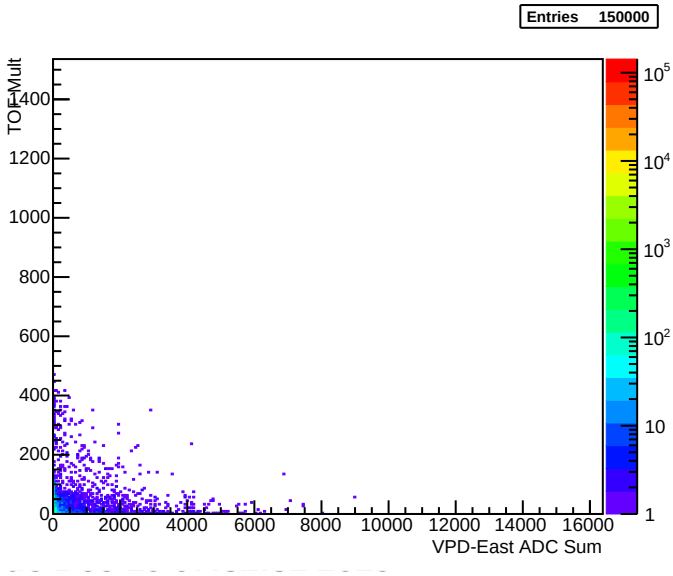

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

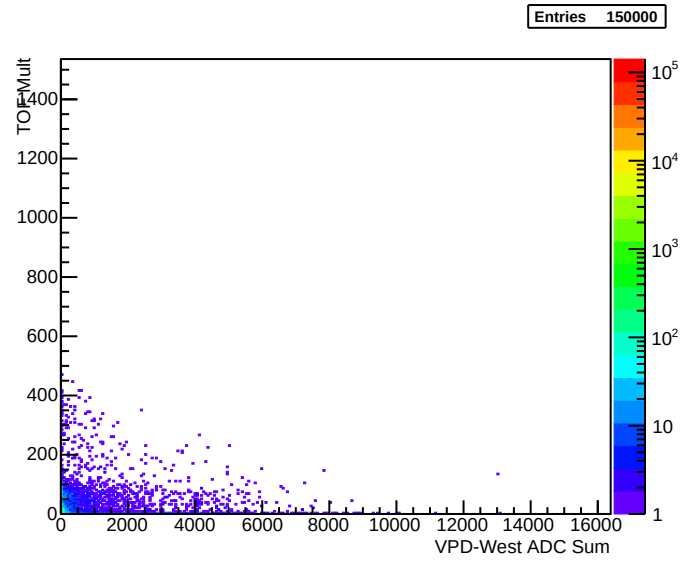

Entries 150000
TOF-Mult
BBC-S-East ADC Sum

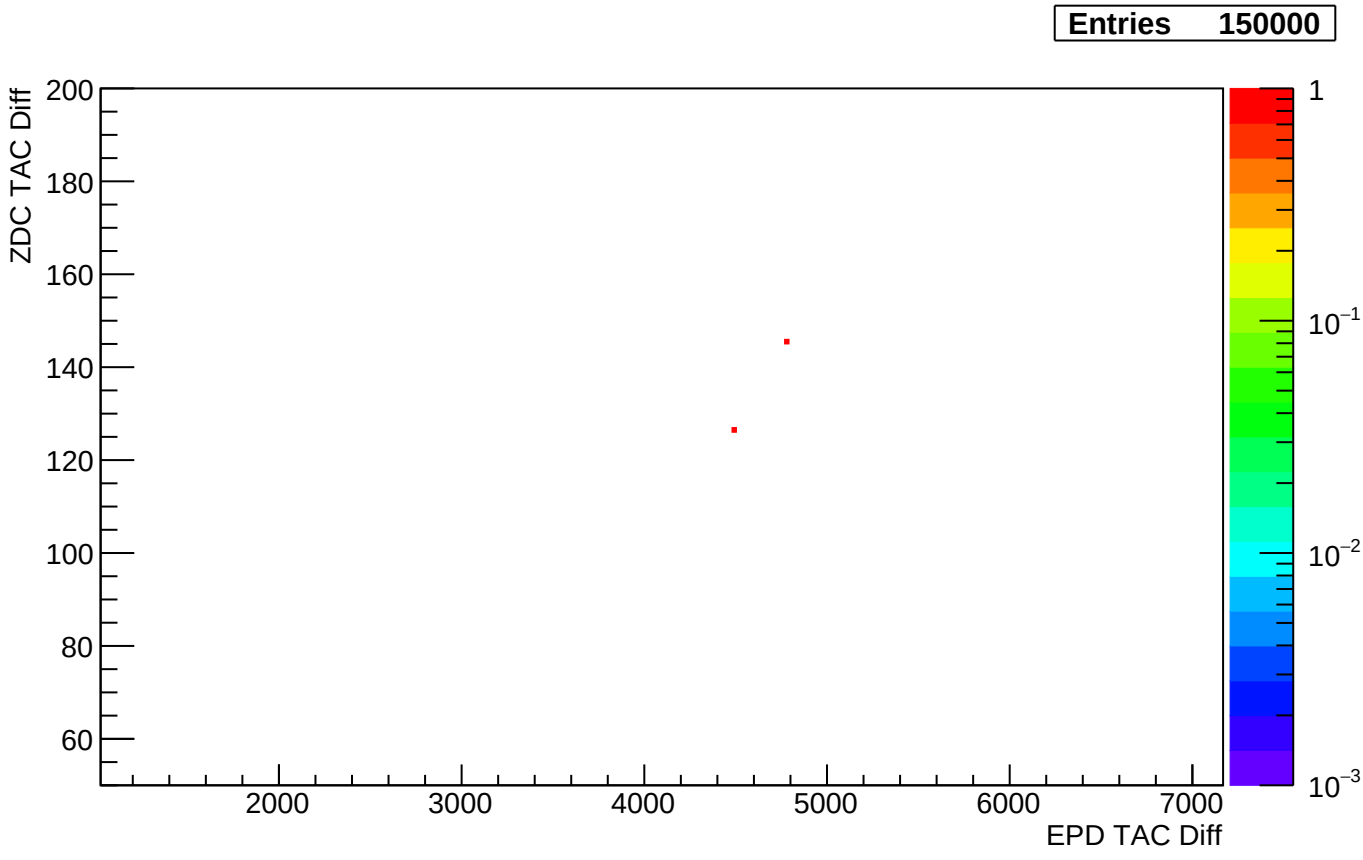

Entries 150000
TOF-Mult
BBC-S-West ADC Sum

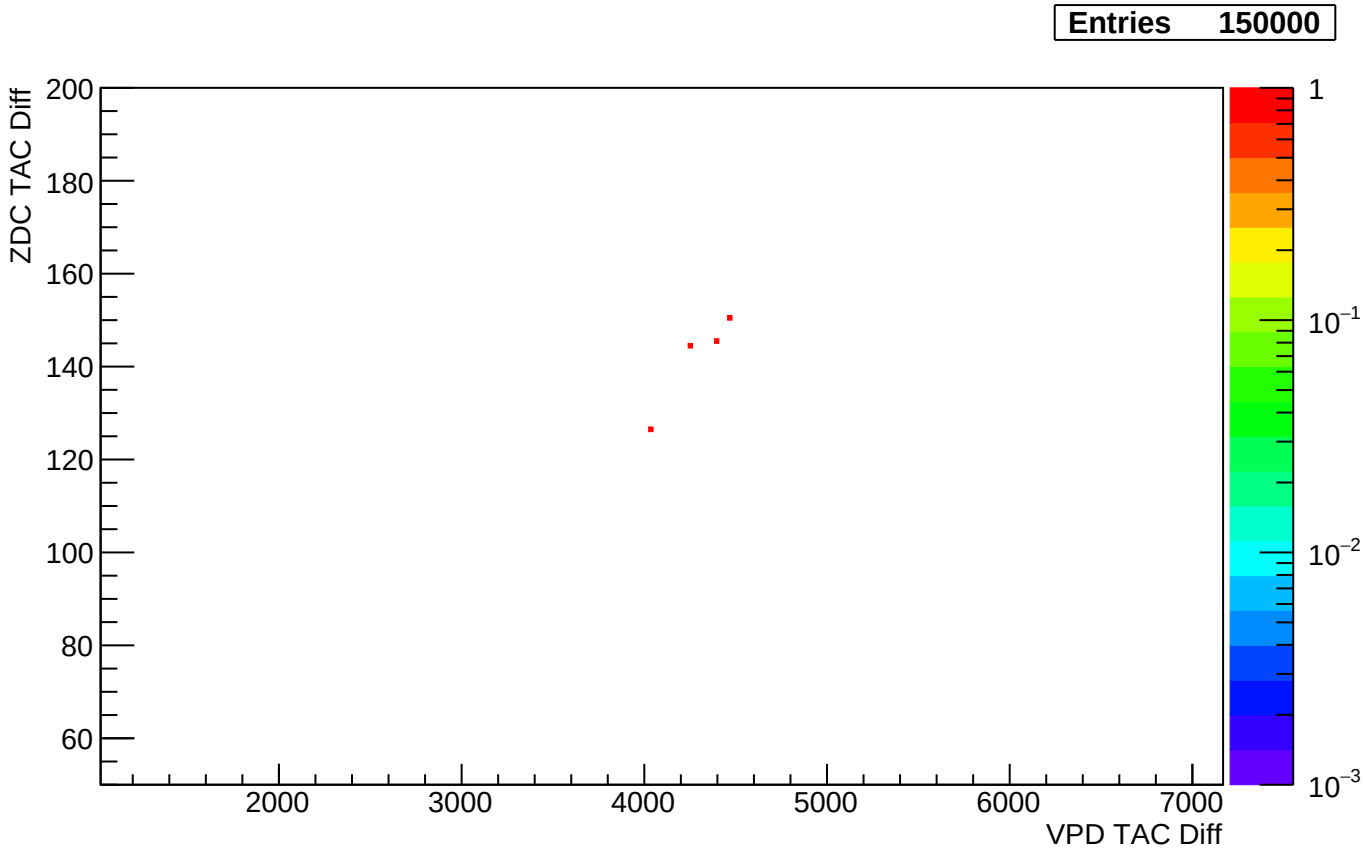

Entries 150000
TOF-Mult
EPD-East Hit Cnt

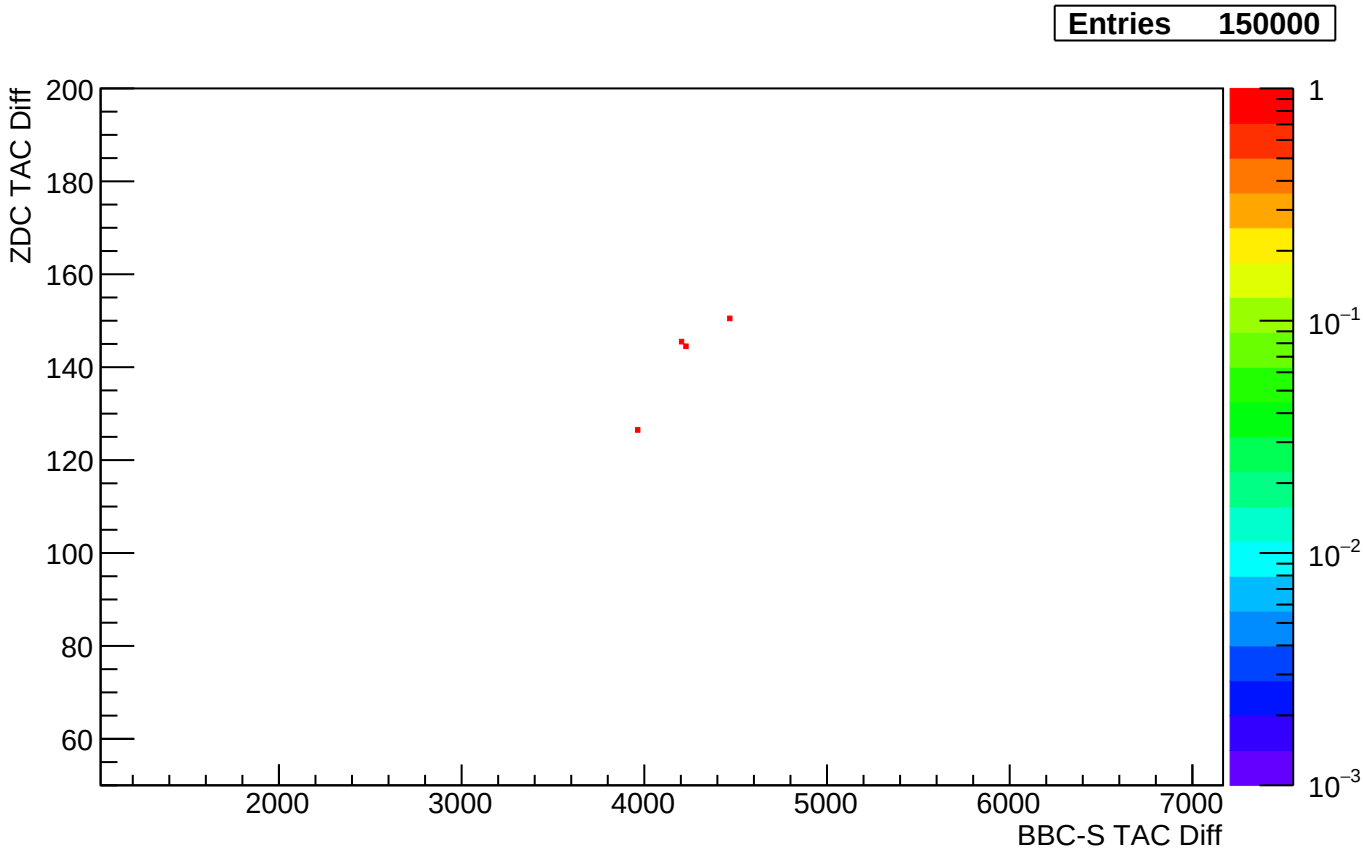

Entries 150000
TOF-Mult
EPD-West Hit Cnt

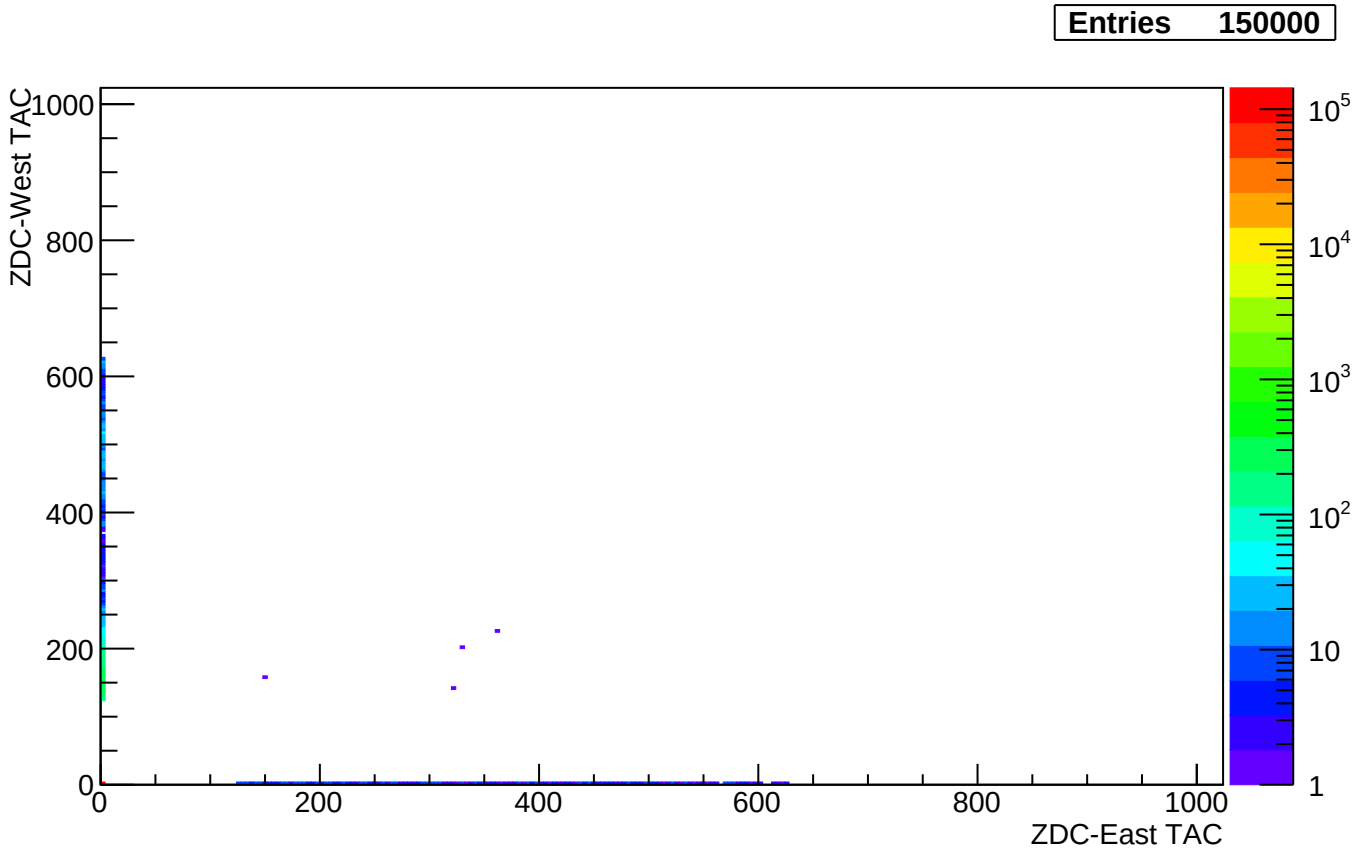

Entries 150000
TOF-Mult
VPD-East ADC Sum

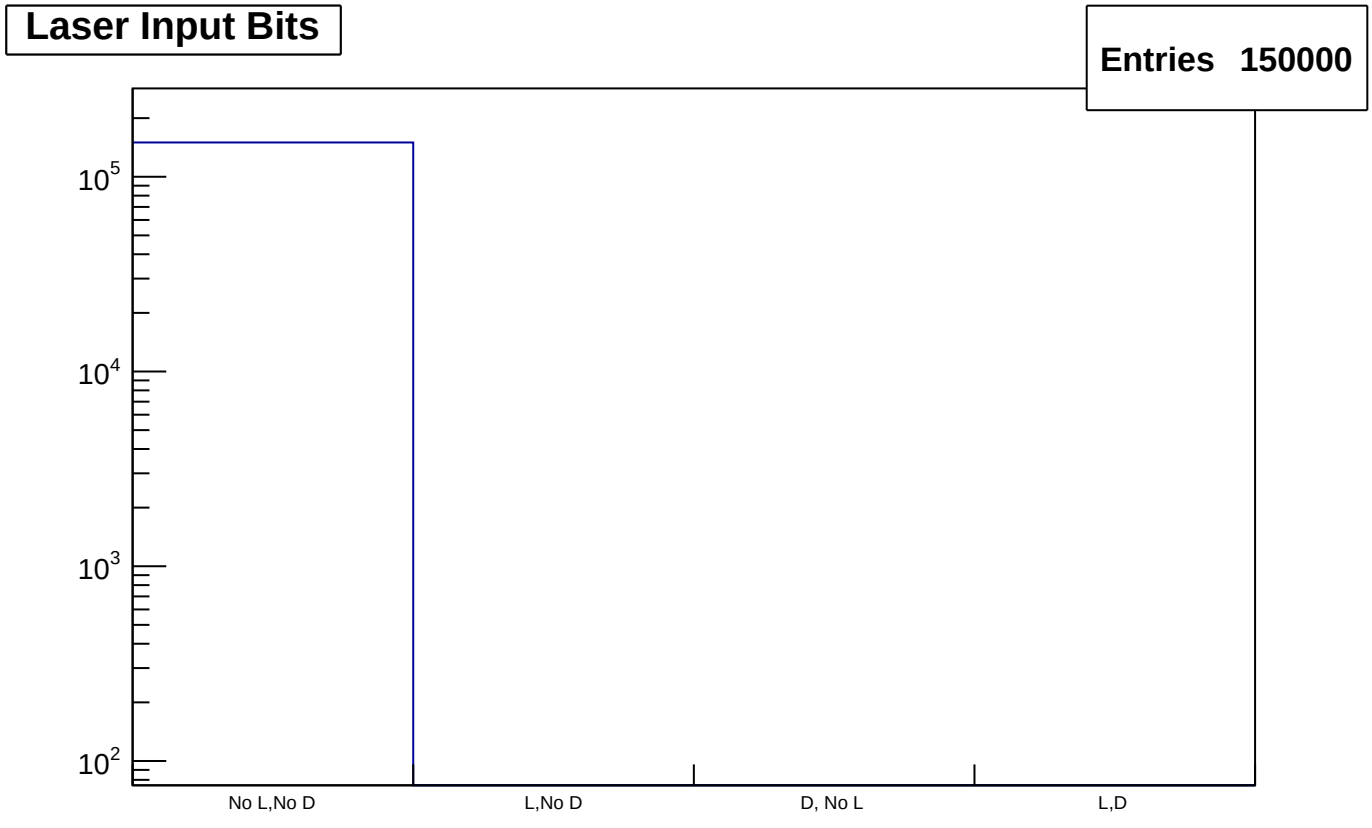

Entries 150000
TOF-Mult
VPD-West ADC Sum

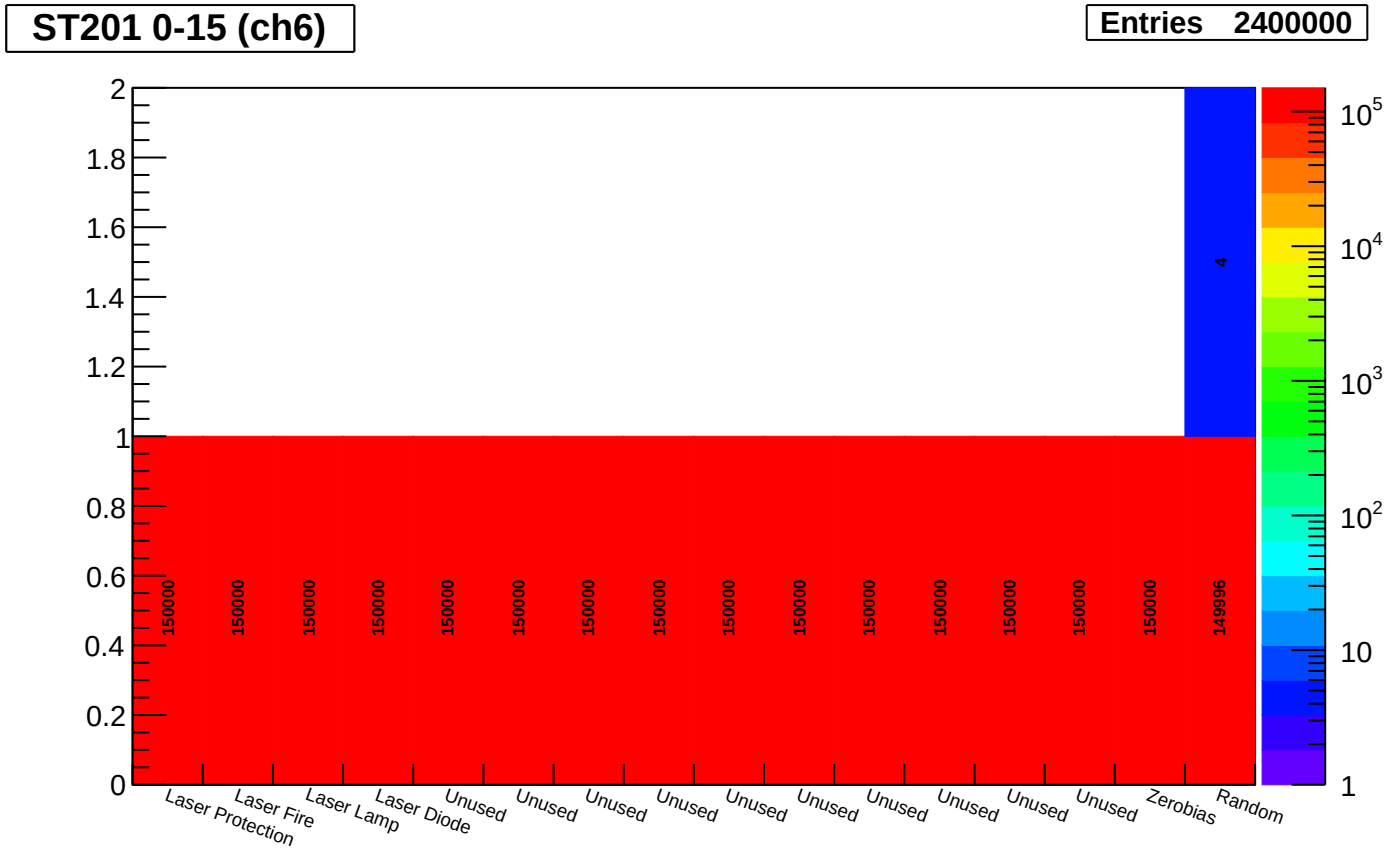

Entries 150000
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

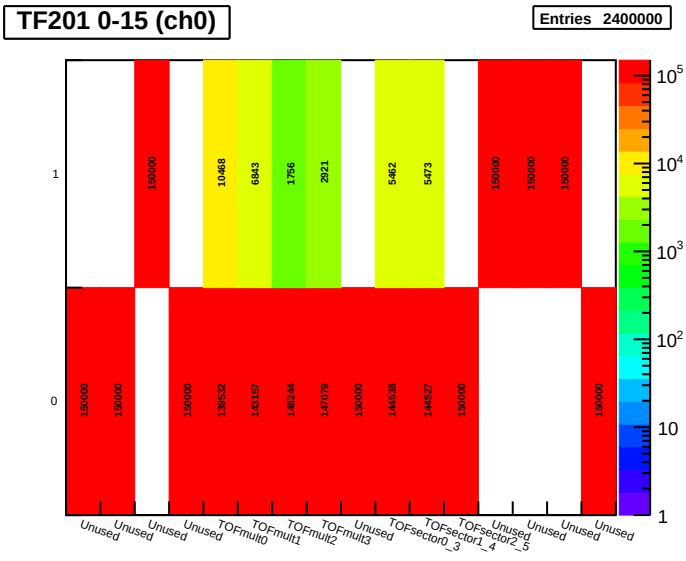

Entries 150000
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

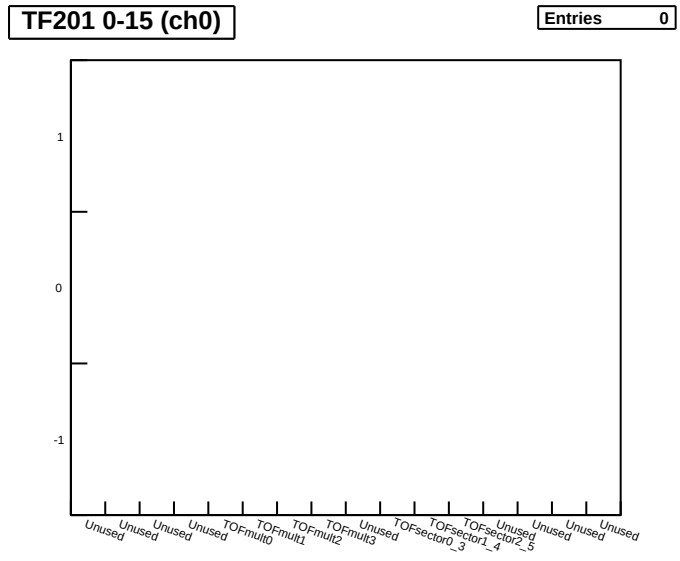

Entries 150000
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

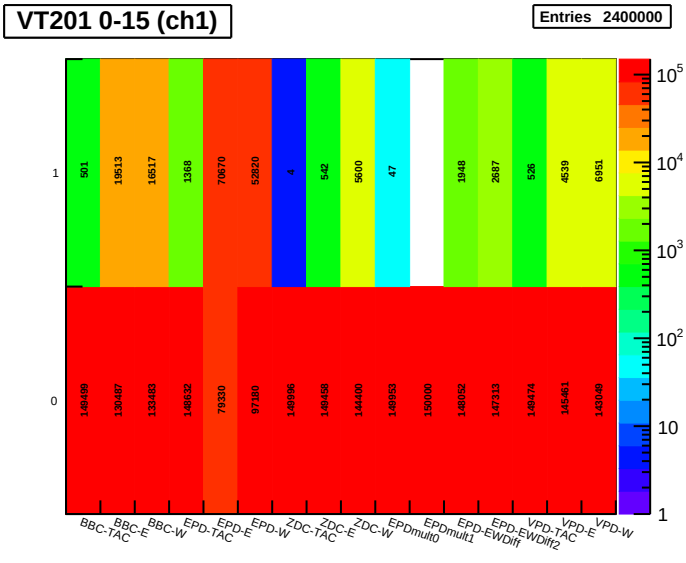

Entries 150000
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

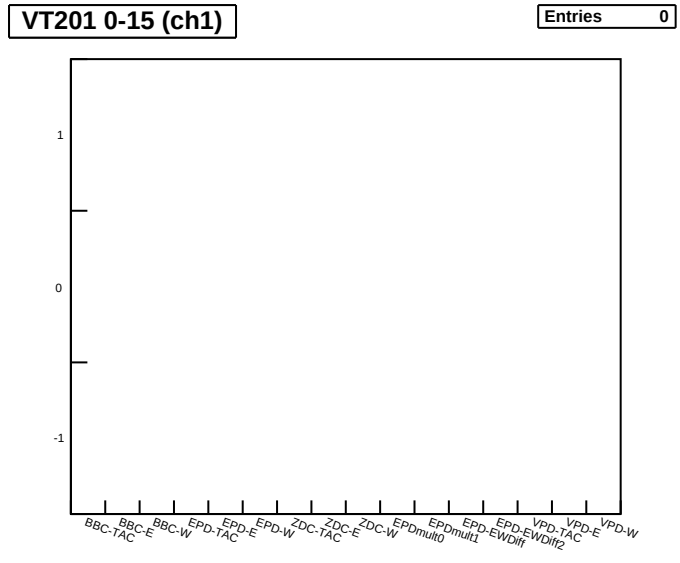

Laser Input Bits
Entries 150000
10^5
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

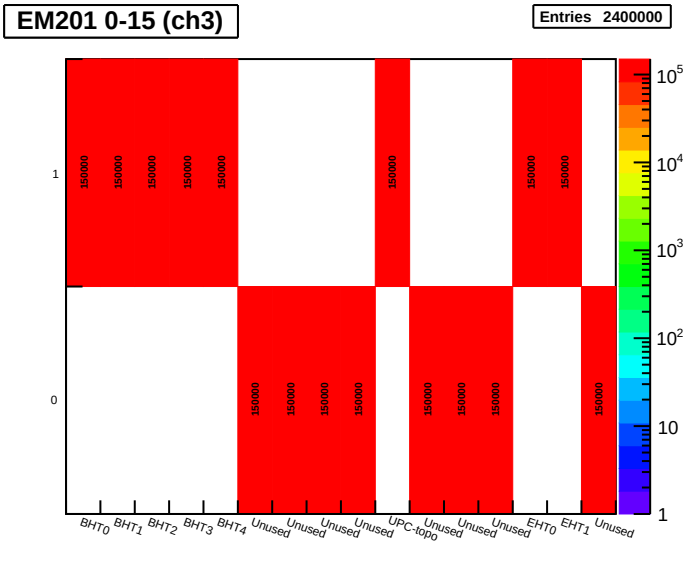

ST201 0-15 (ch6)
Entries 2400000
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
150000
149996
4
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

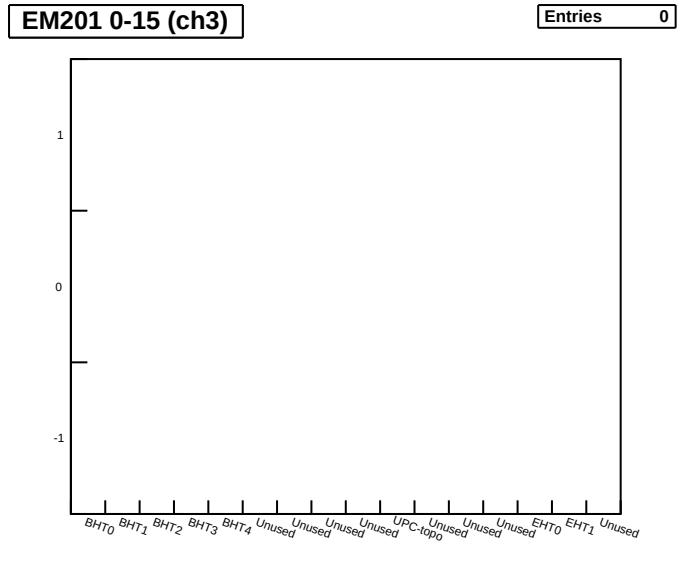

TF201 0-15 (ch0)
Entries 2400000
1
0
150000 150000 150000 10468 6843 1756 2921 5462 5473 150000 150000 150000
150000 150000 150000 139532 143157 148244 147079 150000 144538 144527 150000 150000
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^5 10^4 10^3 10^2 10 1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused


VT201 0-15 (ch1)
Entries 2400000
1
0
501 19513 16517 1368 70670 52820 4 542 5600 47 1948 2687 526 4539 6951
149499 130487 133483 148632 79330 97180 149996 149458 144400 149953 150000 148052 147313 149474 145461 143049
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W
10^5 10^4 10^3 10^2 10 1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 2400000
1
0
150000 150000 150000 150000 150000 150000 150000 150000
150000 150000 150000 150000 150000 150000 150000 150000
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^5 10^4 10^3 10^2 10 1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused