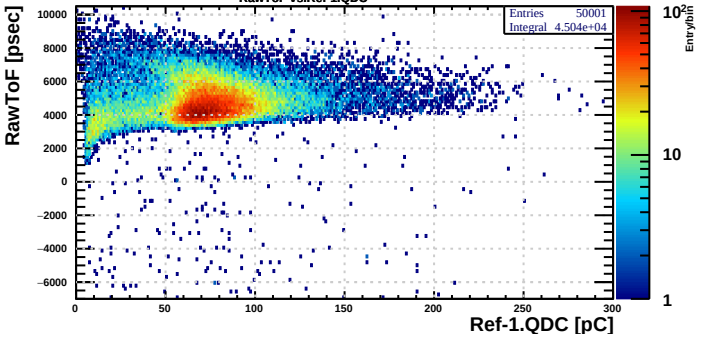
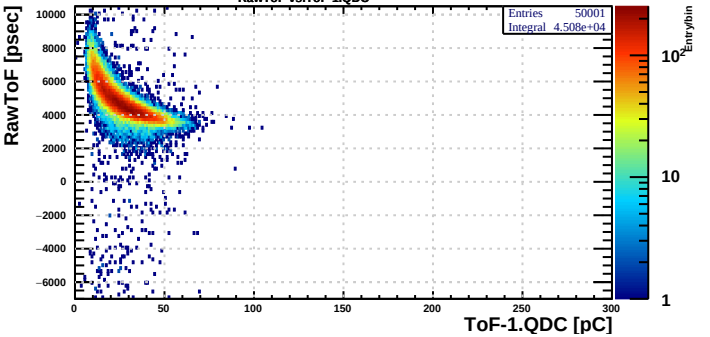
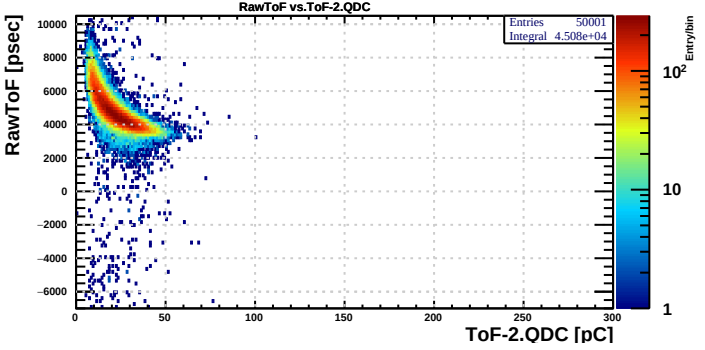
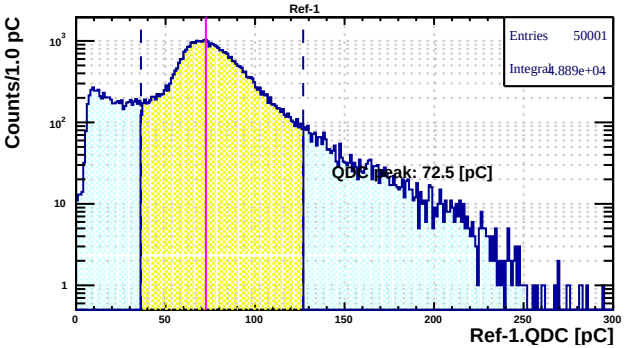
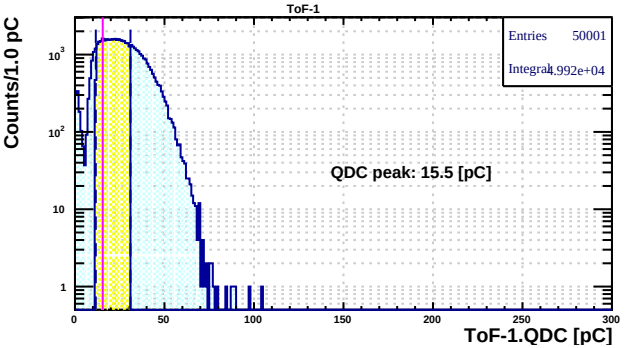
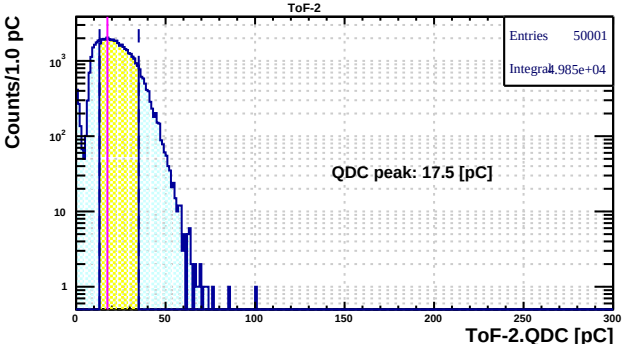

RawToF vs.Ref-1.QDC
Entries 50001
Integral 4.504e+04
RawToF [psec]
Ref-1.QDC [pC]
Entry/bin

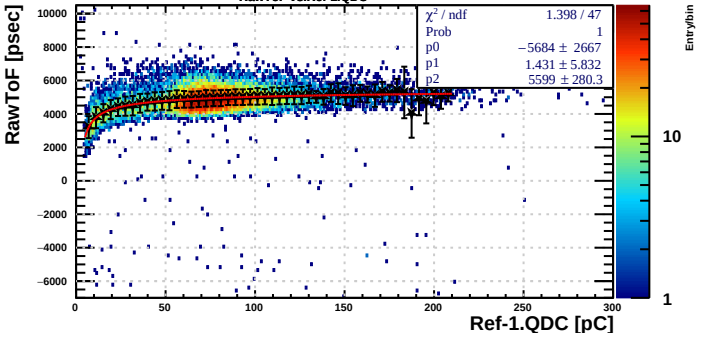

RawToF vs.ToF-1.QDC
Entries 50001
Integral 4.508e+04
RawToF [psec]
ToF-1.QDC [pC]
Entry/bin

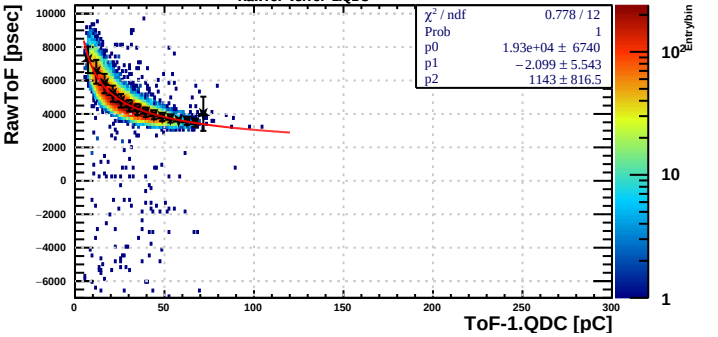

RawToF vs.ToF-2.QDC
Entries 50001
Integral 4.508e+04
RawToF [psec]
ToF-2.QDC [pC]
Entry/bin

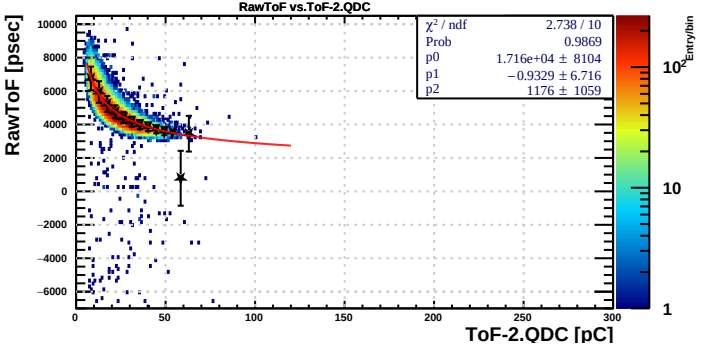

Ref-1
Entries 50001
Integral 4.889e+04
QDC peak: 72.5 [pC]
Counts/1.0 pC
Ref-1.QDC [pC]

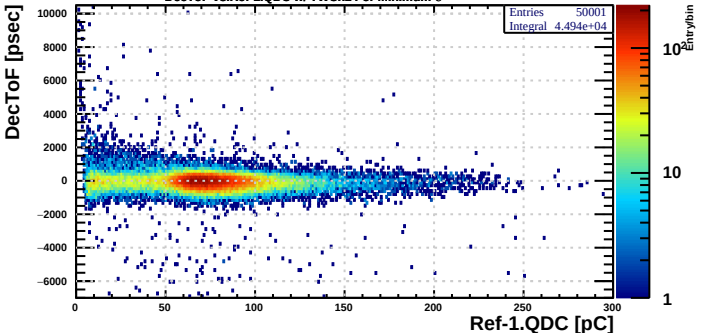

ToF-1
Entries 50001
Integral 4.992e+04
QDC peak: 15.5 [pC]
Counts/1.0 pC
ToF-1.QDC [pC]

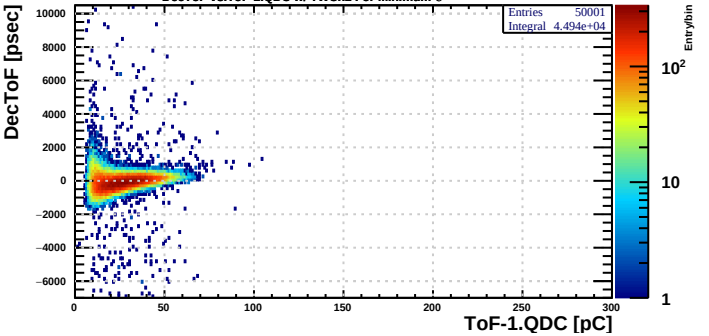

ToF-2
Entries 50001
Integral 4.985e+04
QDC peak: 17.5 [pC]
Counts/1.0 pC
ToF-2.QDC [pC]

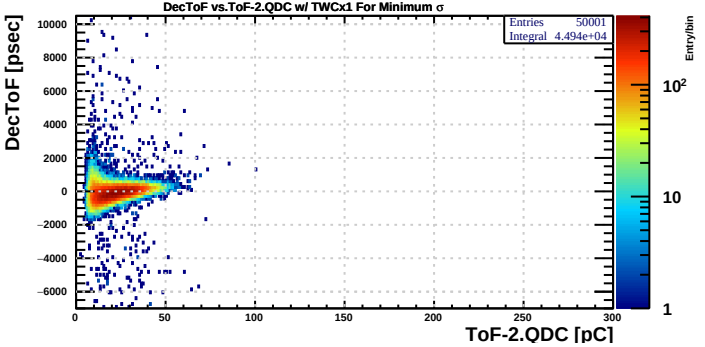

RawToF vs.Ref-1.QDC
RawToF [psec]
Ref-1.QDC [pC]
Entry/bin
χ² / ndf 1.398 / 47
Prob 1
p0 −5684 ± 2667
p1 1.431 ± 5.832
p2 5599 ± 280.3

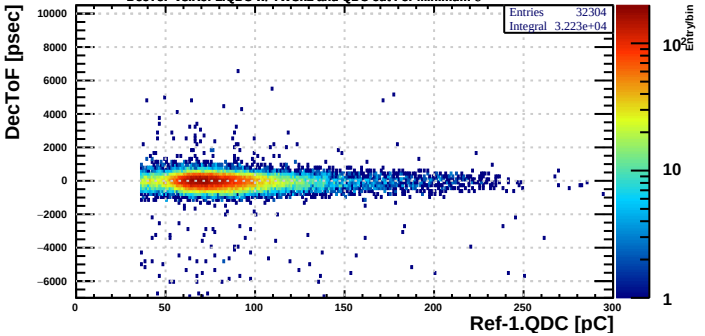

RawToF vs.ToF-1.QDC
RawToF [psec]
ToF-1.QDC [pC]
Entry/bin
χ² / ndf 0.778 / 12
Prob 1
p0 1.93e+04 ± 6740
p1 −2.099 ± 5.543
p2 1143 ± 816.5

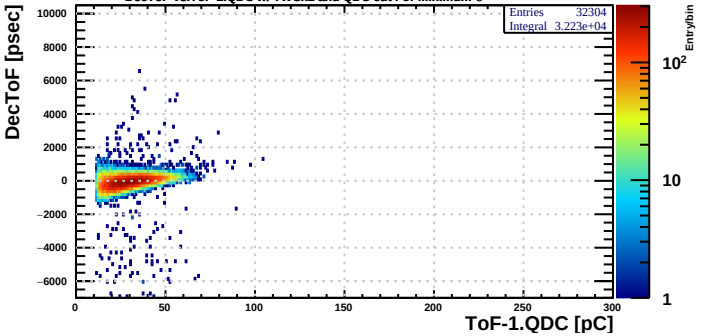

RawToF vs.ToF-2.QDC
RawToF [psec]
ToF-2.QDC [pC]
Entry/bin
χ² / ndf 2.738 / 10
Prob 0.9869
p0 1.716e+04 ± 8104
p1 −0.9329 ± 6.716
p2 1176 ± 1059

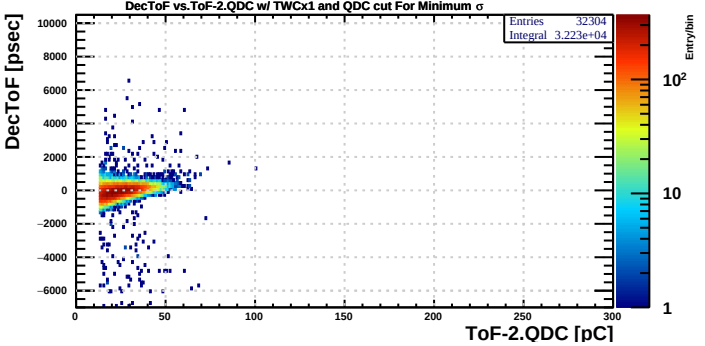

DecToF vs.Ref-1.QDC w/ TWCx1 For Minimum σ
Entries 50001
Integral 4.494e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

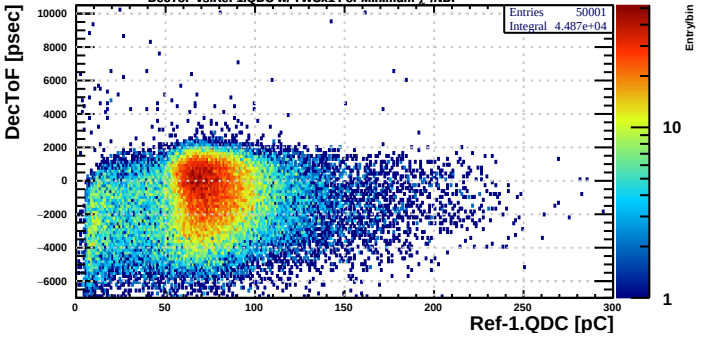

DecToF vs.ToF-1.QDC w/ TWCx1 For Minimum σ
Entries 50001
Integral 4.494e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

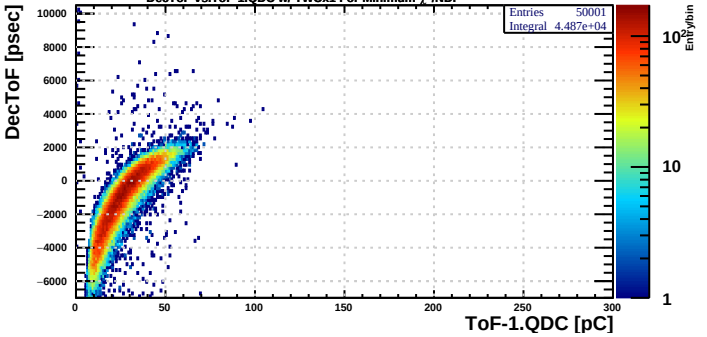

DecToF vs.ToF-2.QDC w/ TWCx1 For Minimum σ
Entries 50001
Integral 4.494e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

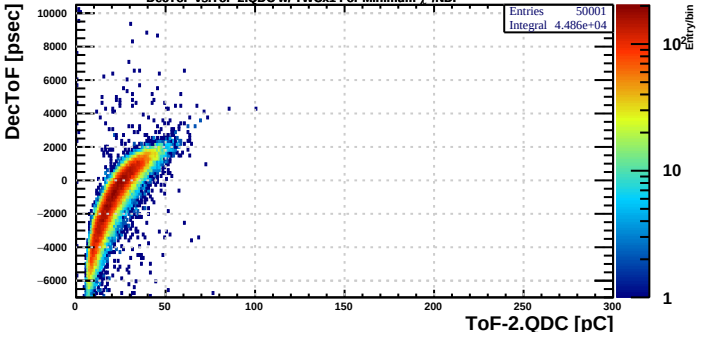

DecToF vs.Ref-1.QDC w/ TWCx1 and QDC cut For Minimum σ
Entries 32304
Integral 3.223e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

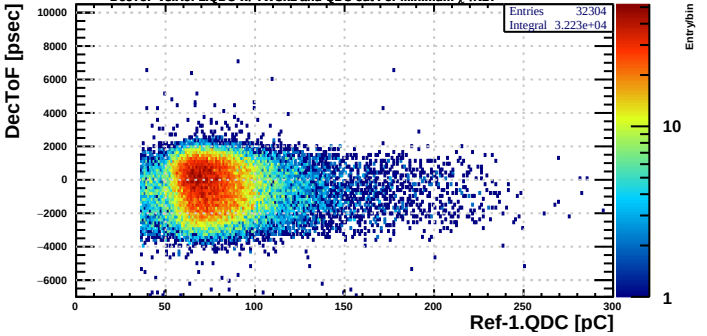

DecToF vs.ToF-1.QDC w/ TWCx1 and QDC cut For Minimum σ
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

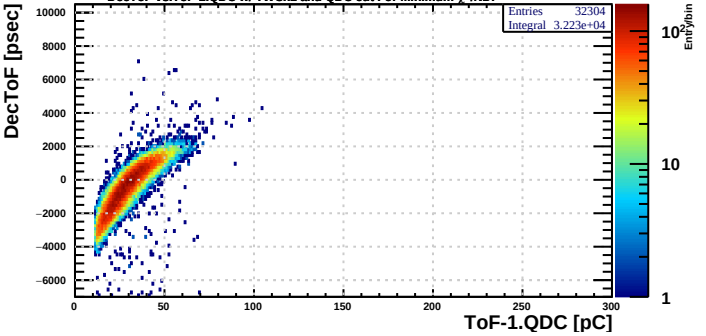

DecToF vs.ToF-2.QDC w/ TWCx1 and QDC cut For Minimum σ
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

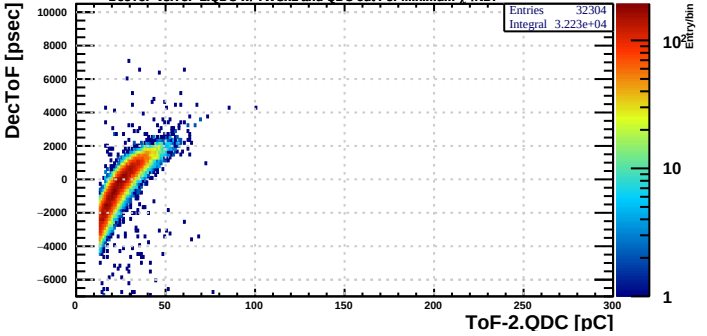

DecToF vs.Ref-1.QDC w/ TWCx1 For Minimum χ²/NDF
Entries 50001
Integral 4.487e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

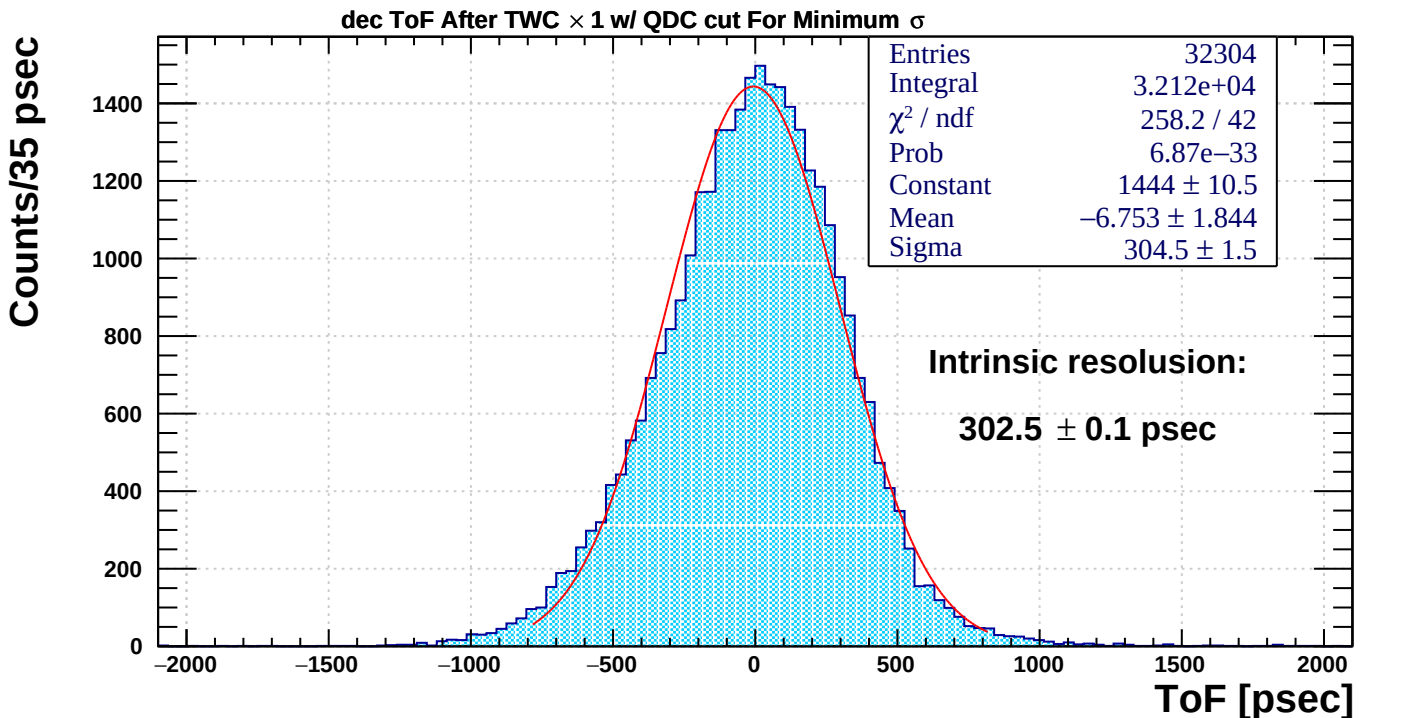

DecToF vs.ToF-1.QDC w/ TWCx1 For Minimum χ²/NDF
Entries 50001
Integral 4.487e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

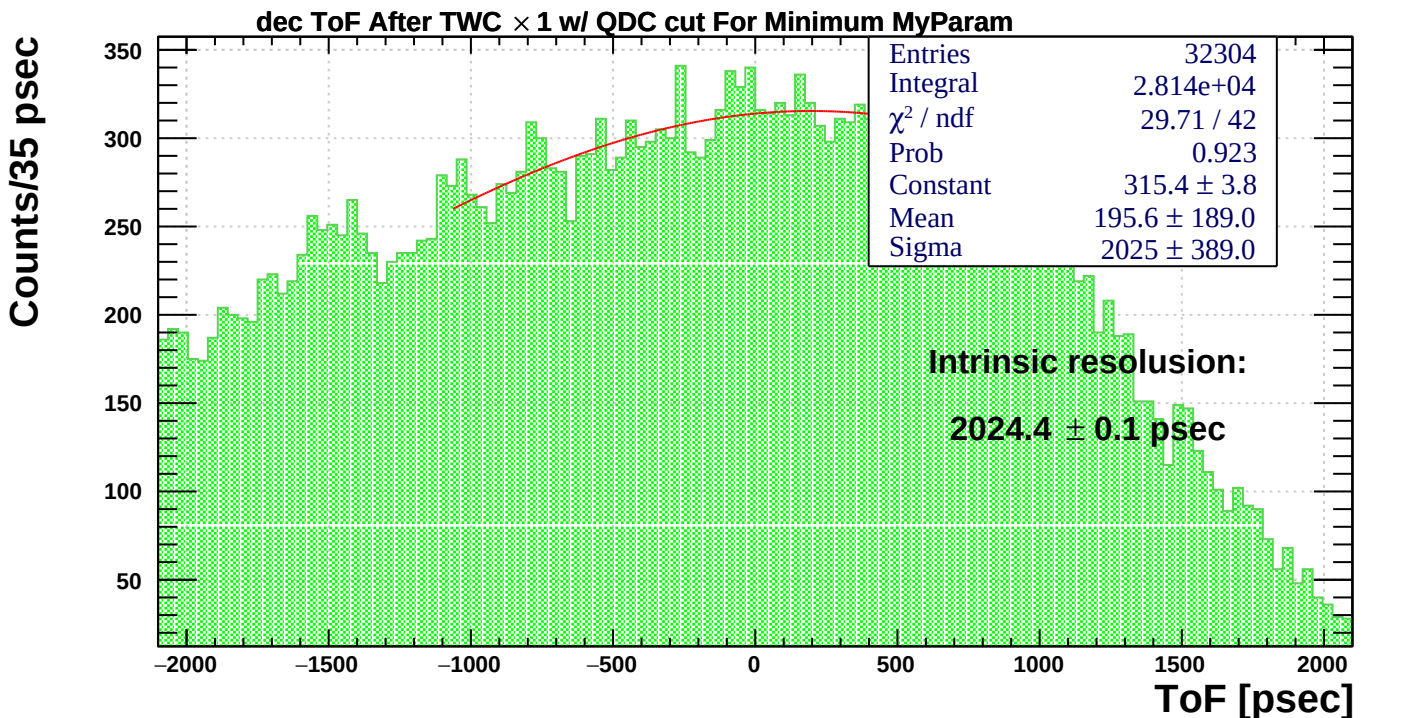

DecToF vs.ToF-2.QDC w/ TWCx1 For Minimum χ²/NDF
Entries 50001
Integral 4.486e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

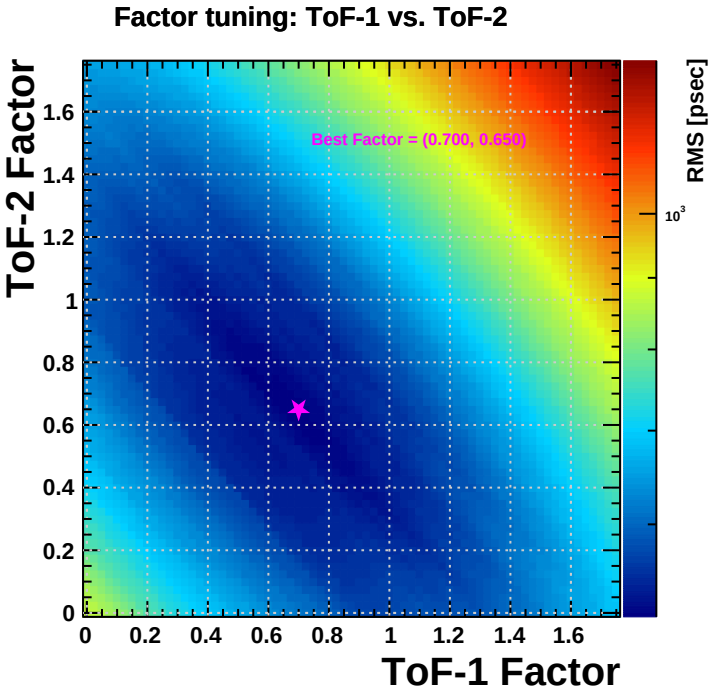

DecToF vs.Ref-1.QDC w/ TWCx1 and QDC cut For Minimum χ²/NDF
Entries 32304
Integral 3.223e+04
DecToF [psec]
Ref-1.QDC [pC]
Entry/bin

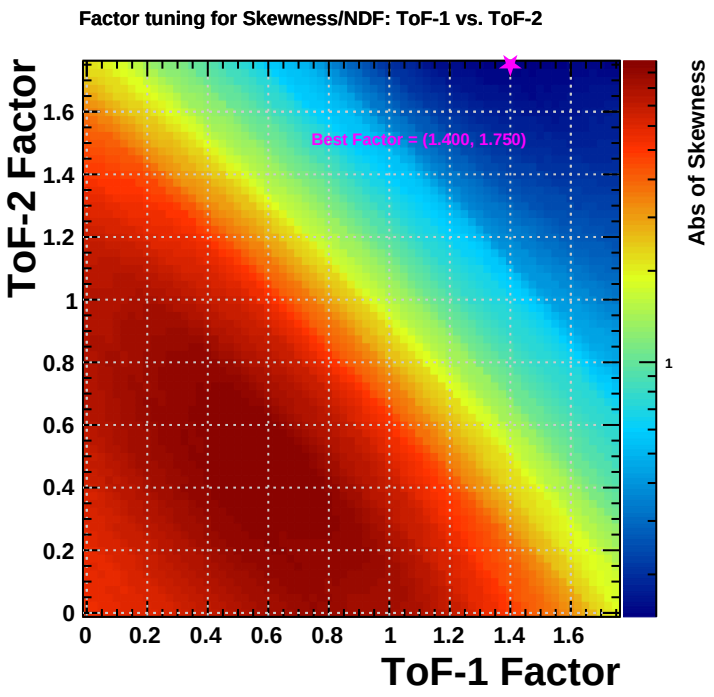

DecToF vs.ToF-1.QDC w/ TWCx1 and QDC cut For Minimum χ²/NDF
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-1.QDC [pC]
Entry/bin

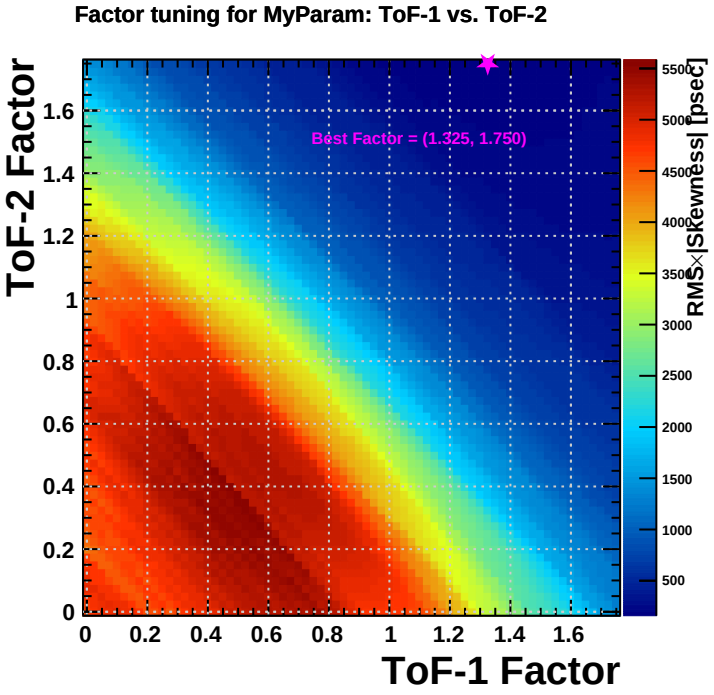

DecToF vs.ToF-2.QDC w/ TWCx1 and QDC cut For Minimum χ²/NDF
Entries 32304
Integral 3.223e+04
DecToF [psec]
ToF-2.QDC [pC]
Entry/bin

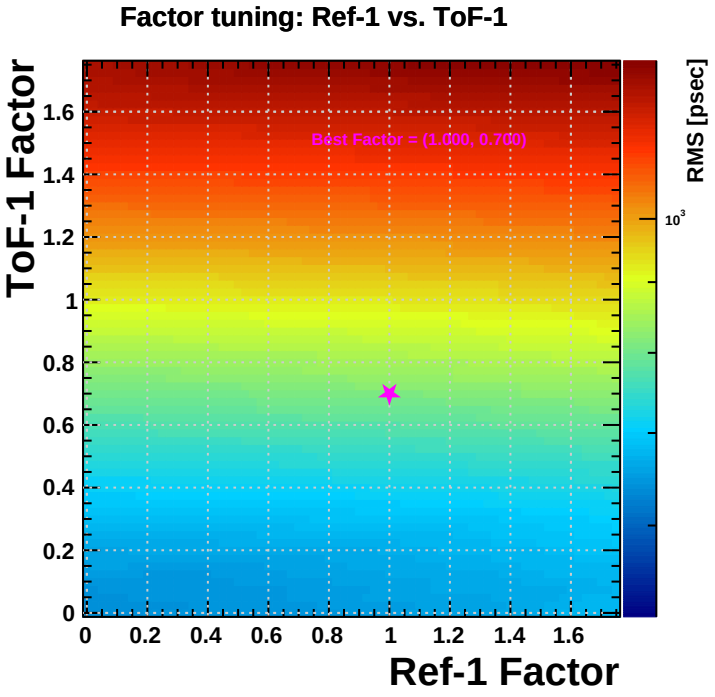

dec ToF After TWC × 1 w/ QDC cut For Minimum σ
Entries 32304
Integral 3.212e+04
χ² / ndf 258.2 / 42
Prob 6.87e−33
Constant 1444 ± 10.5
Mean −6.753 ± 1.844
Sigma 304.5 ± 1.5
Intrinsic resolusion:
302.5 ± 0.1 psec
Counts/35 psec
ToF [psec]
0
200
400
600
800
1000
1200
1400
−2000
−1500
−1000
−500
0
500
1000
1500
2000

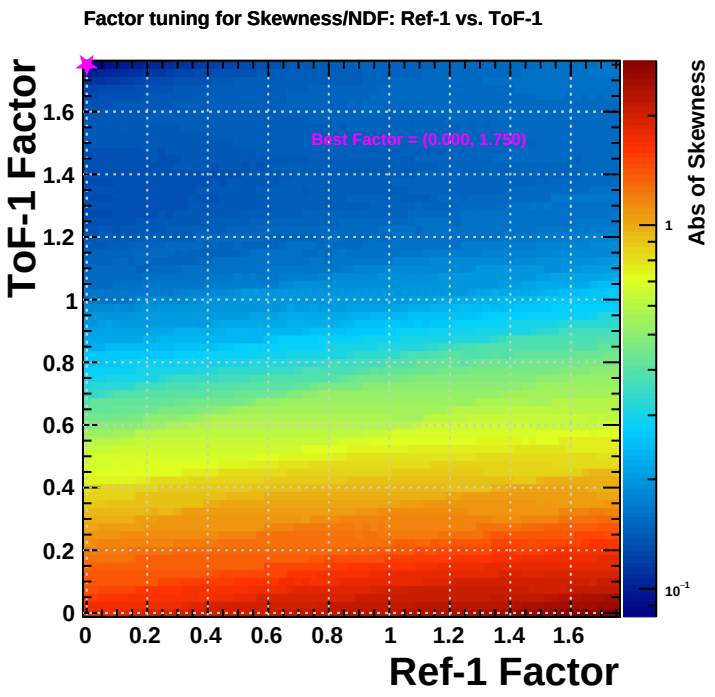

dec ToF After TWC × 1 w/ QDC cut For Minimum MyParam
Entries 32304
Integral 2.814e+04
χ² / ndf 29.71 / 42
Prob 0.923
Constant 315.4 ± 3.8
Mean 195.6 ± 189.0
Sigma 2025 ± 389.0
Intrinsic resolusion:
2024.4 ± 0.1 psec
Counts/35 psec
ToF [psec]
350
300
250
200
150
100
50
−2000
−1500
−1000
−500
0
500
1000
1500
2000

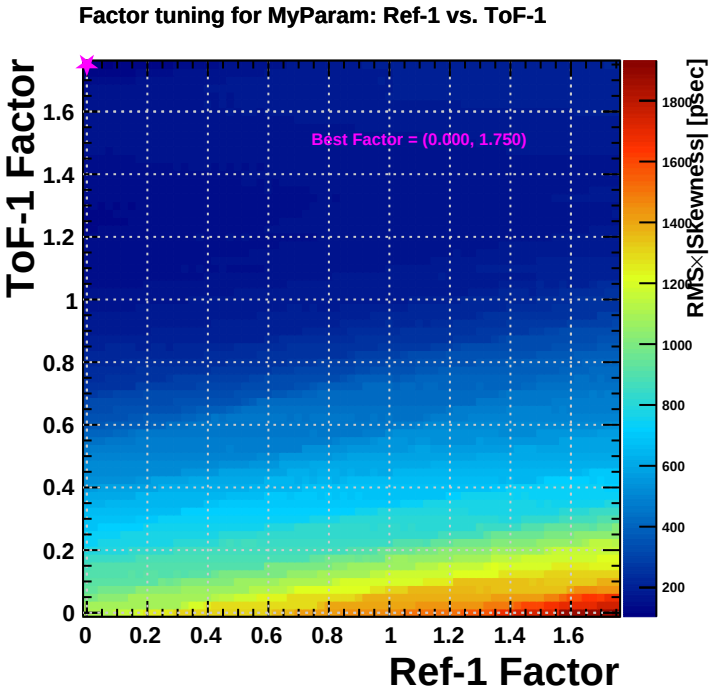

Factor tuning: ToF-1 vs. ToF-2
Best Factor = (0.700, 0.650)
ToF-2 Factor
ToF-1 Factor
RMS [psec]
10³

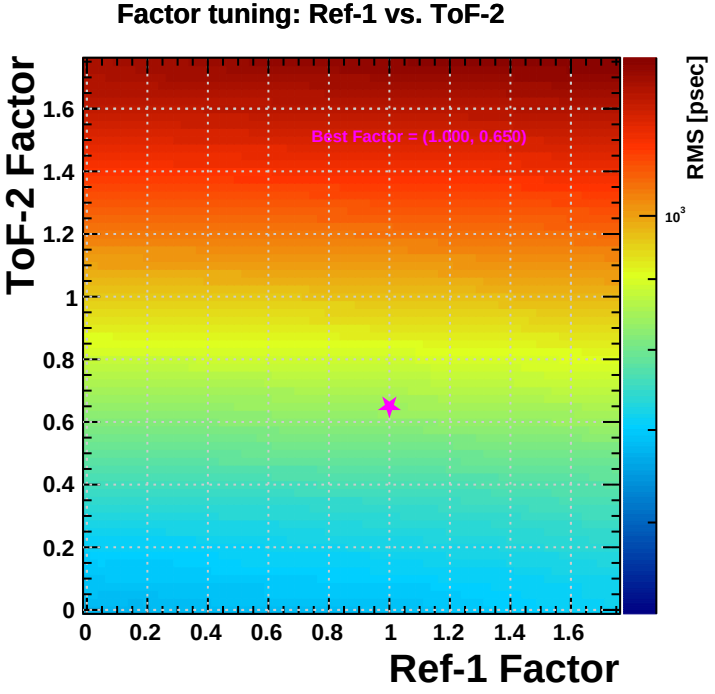

Factor tuning for Skewness/NDF: ToF-1 vs. ToF-2
Best Factor = (1.400, 1.750)
ToF-2 Factor
ToF-1 Factor
Abs of Skewness
1

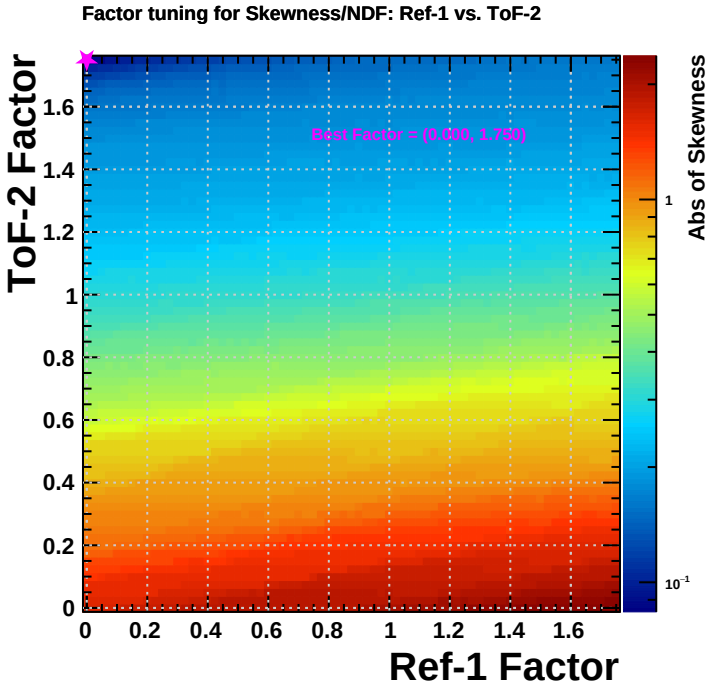

Factor tuning for MyParam: ToF-1 vs. ToF-2
Best Factor = (1.325, 1.750)
ToF-2 Factor
ToF-1 Factor
RMS×|Skewness| [psec]
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

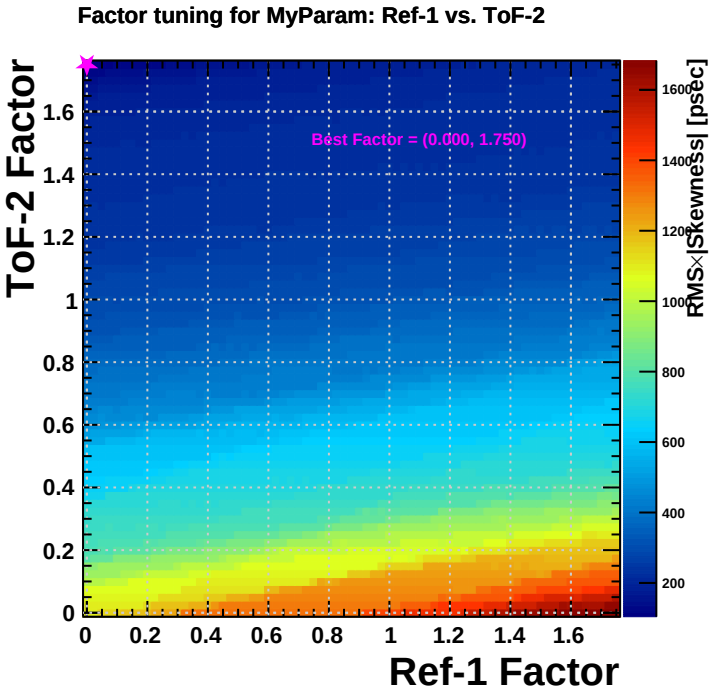

Factor tuning: Ref-1 vs. ToF-1
Best Factor = (1.000, 0.700)
ToF-1 Factor
Ref-1 Factor
RMS [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
10^3


Factor tuning for Skewness/NDF: Ref-1 vs. ToF-1
Best Factor = (0.000, 1.750)
ToF-1 Factor
Ref-1 Factor
Abs of Skewness
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1
10^{-1}


Factor tuning for MyParam: Ref-1 vs. ToF-1
Best Factor = (0.000, 1.750)
ToF-1 Factor
Ref-1 Factor
RMS×|Skewness| [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
200
400
600
800
1000
1200
1400
1600
1800


Factor tuning: Ref-1 vs. ToF-2
Best Factor = (1.000, 0.650)
ToF-2 Factor
Ref-1 Factor
RMS [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
10^3


Factor tuning for Skewness/NDF: Ref-1 vs. ToF-2
Best Factor = (0.000, 1.750)
ToF-2 Factor
Ref-1 Factor
Abs of Skewness
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1
10^{-1}


Factor tuning for MyParam: Ref-1 vs. ToF-2
Best Factor = (0.000, 1.750)
ToF-2 Factor
Ref-1 Factor
RMS×|Skewness| [psec]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
200
400
600
800
1000
1200
1400
1600