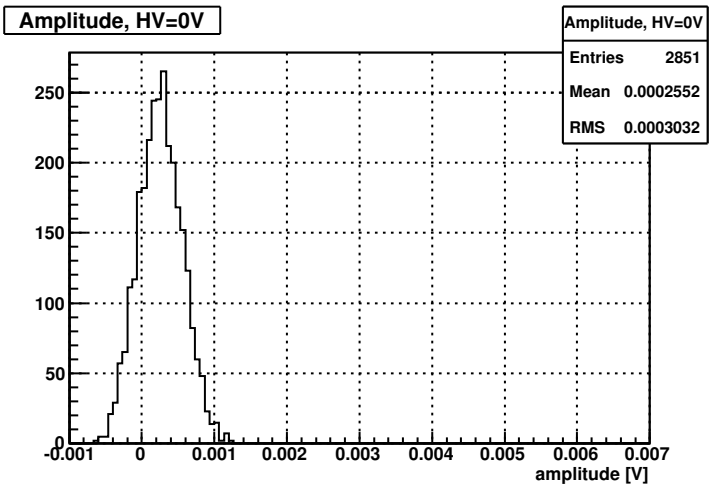
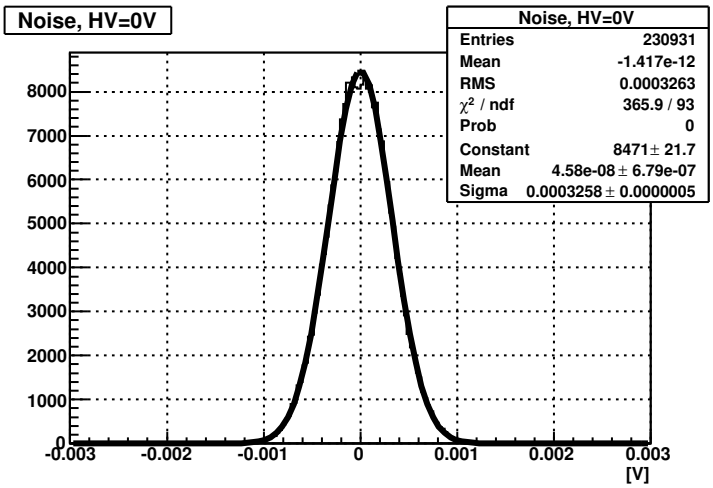
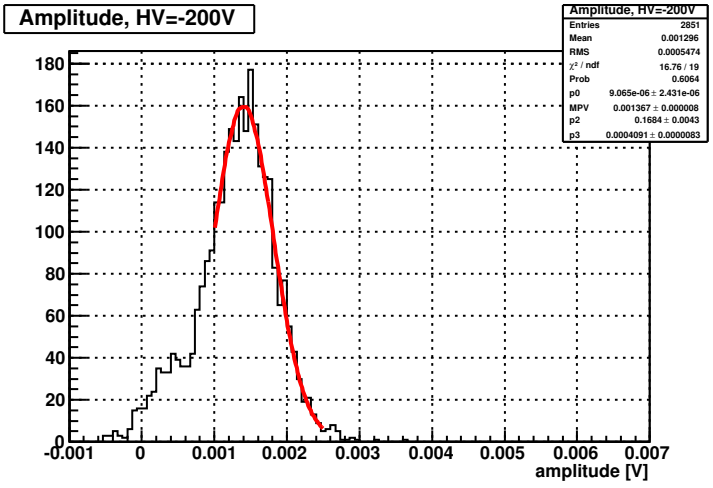
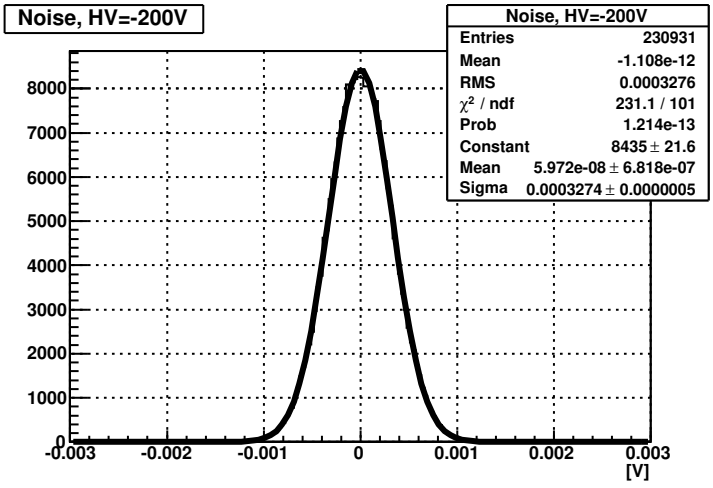
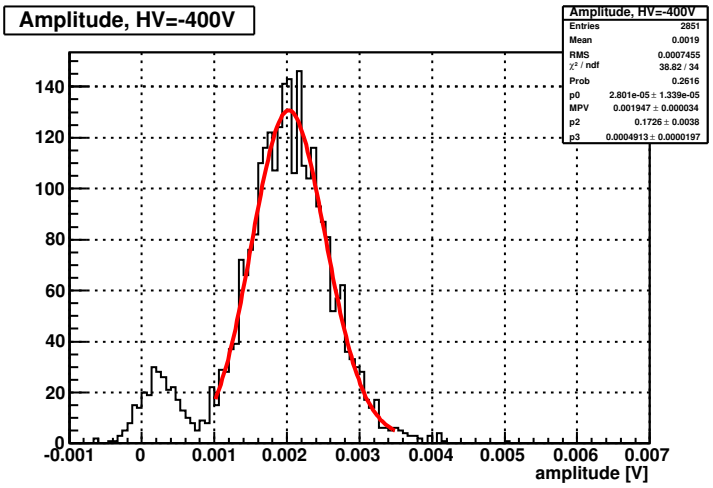
Fotec Box 402 (A230-10 and A230-08), Measurement 3 (BWL 200MHz)

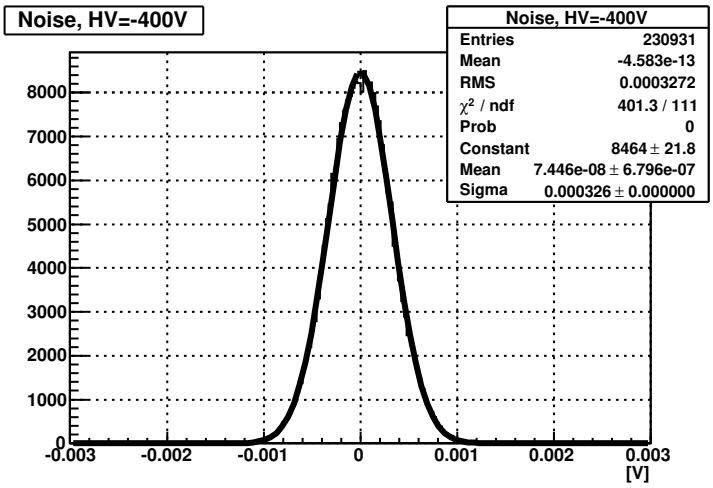


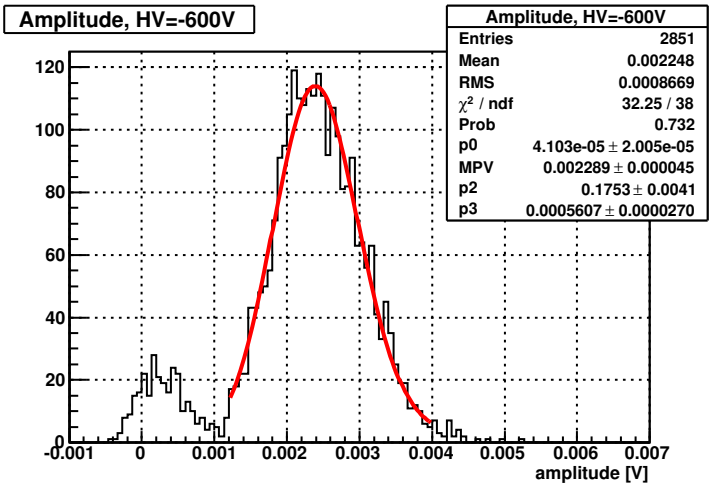


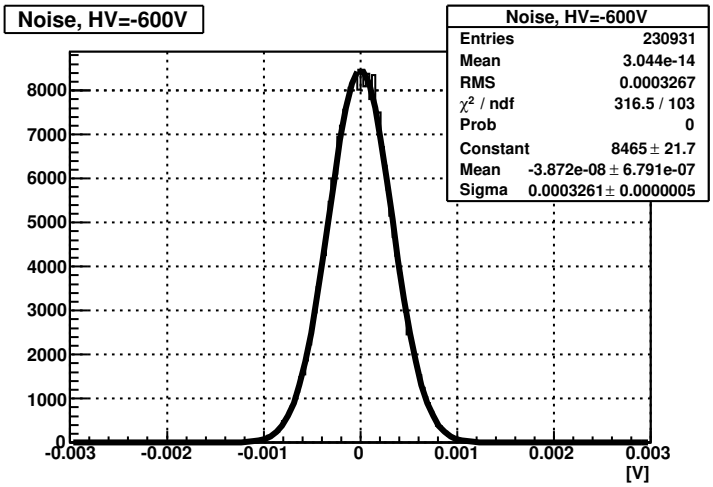


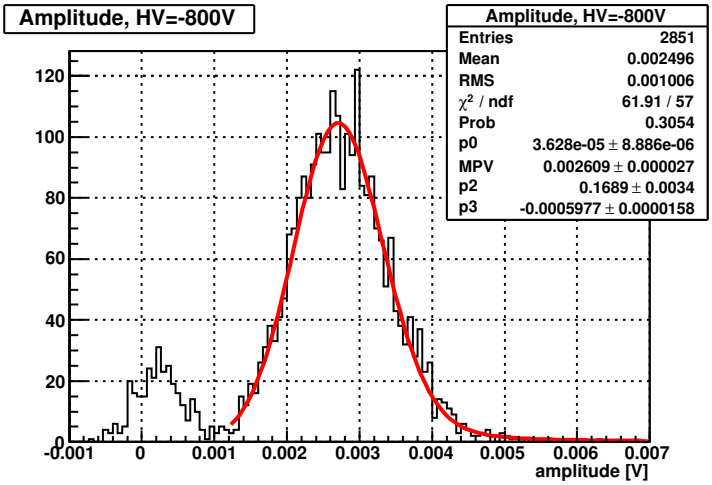


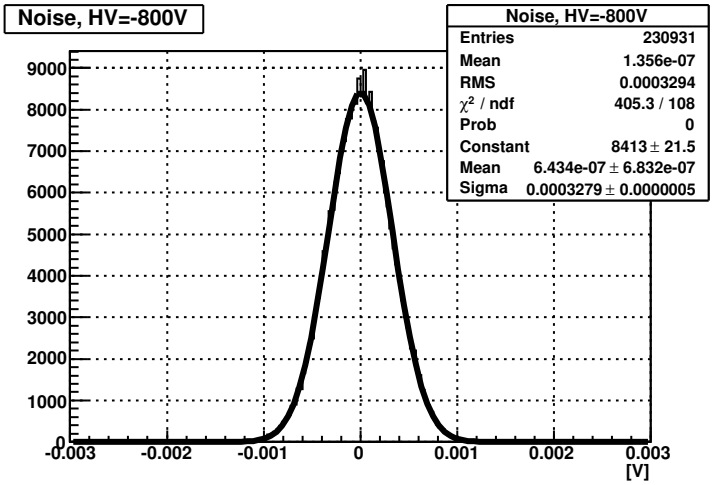


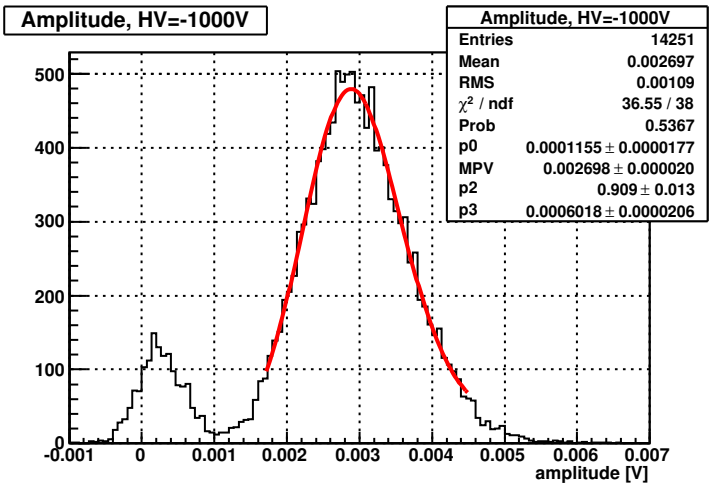


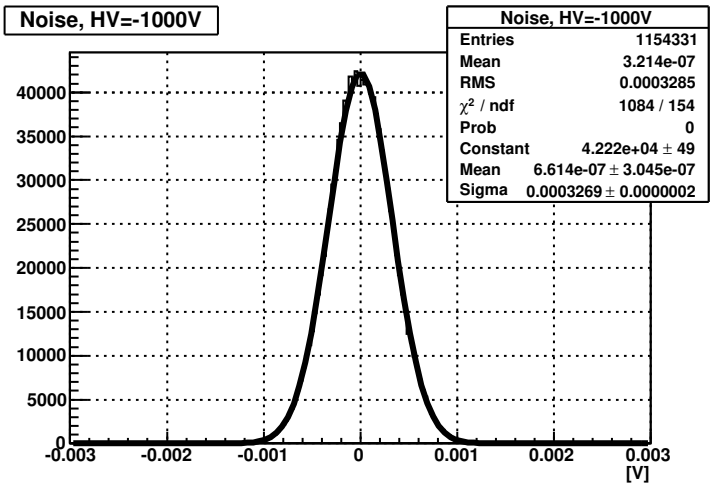

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.002248
RMS 0.0008669
χ² / ndf 32.25 / 38
Prob 0.732
p0 4.103e-05 ± 2.005e-05
MPV 0.002289 ± 0.000045
p2 0.1753 ± 0.0041
p3 0.0005607 ± 0.0000270
amplitude [V]


Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean 3.044e-14
RMS 0.0003267
χ² / ndf 316.5 / 103
Prob 0
Constant 8465 ± 21.7
Mean -3.872e-08 ± 6.791e-07
Sigma 0.0003261 ± 0.0000005
[V]

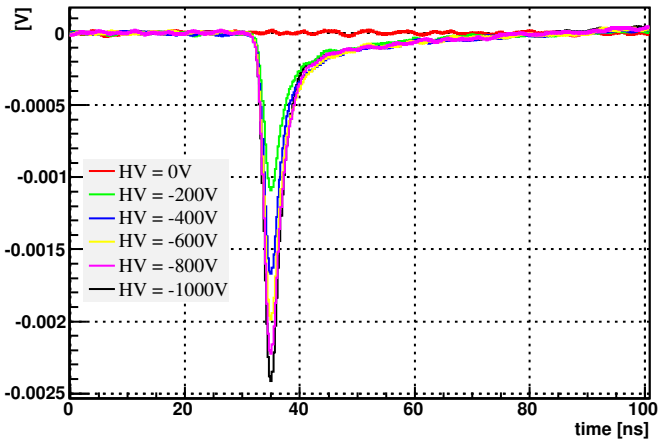

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2851
Mean 0.002496
RMS 0.001006
χ² / ndf 61.91 / 57
Prob 0.3054
p0 3.628e-05 ± 8.886e-06
MPV 0.002609 ± 0.000027
p2 0.1689 ± 0.0034
p3 -0.0005977 ± 0.0000158
amplitude [V]

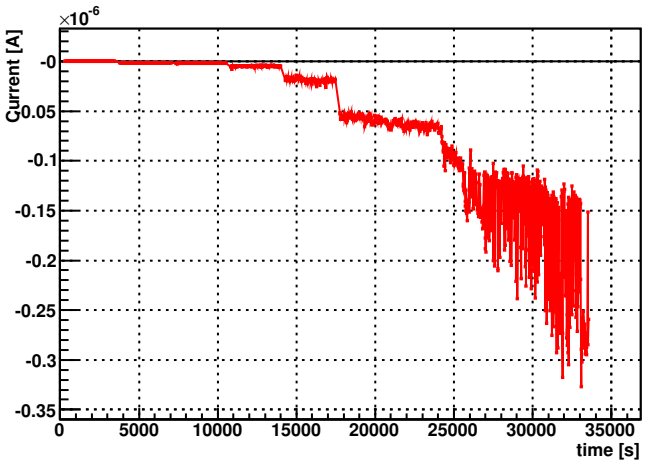

Noise, HV=-800V
Noise, HV=-800V
Entries 230931
Mean 1.356e-07
RMS 0.0003294
χ² / ndf 405.3 / 108
Prob 0
Constant 8413 ± 21.5
Mean 6.434e-07 ± 6.832e-07
Sigma 0.0003279 ± 0.0000005
[V]


Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 14251
Mean 0.002697
RMS 0.00109
χ² / ndf 36.55 / 38
Prob 0.5367
p0 0.0001155 ± 0.0000177
MPV 0.002698 ± 0.000020
p2 0.909 ± 0.013
p3 0.0006018 ± 0.0000206
amplitude [V]

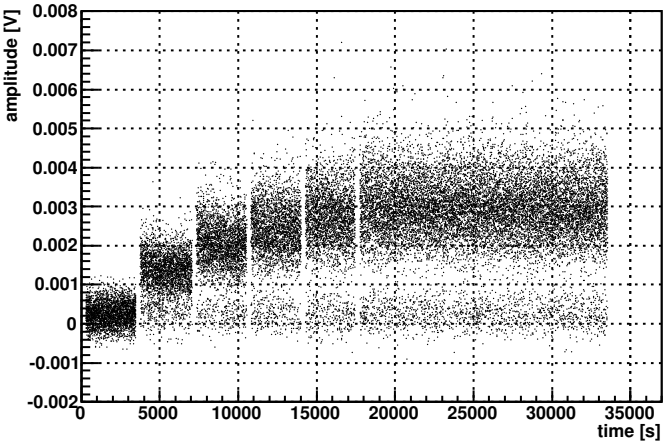

Noise, HV=-1000V
Noise, HV=-1000V
Entries 1154331
Mean 3.214e-07
RMS 0.0003285
χ² / ndf 1084 / 154
Prob 0
Constant 4.222e+04 ± 49
Mean 6.614e-07 ± 3.045e-07
Sigma 0.0003269 ± 0.0000002
[V]

Average event

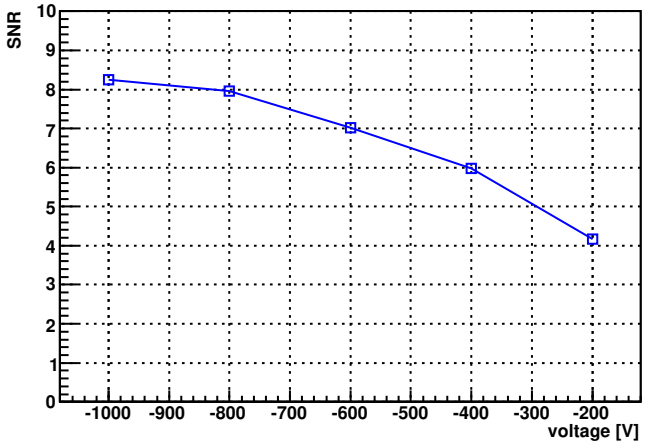




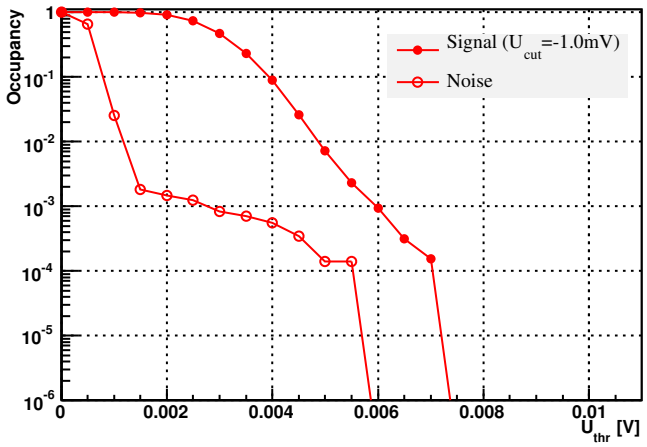
amplitudes



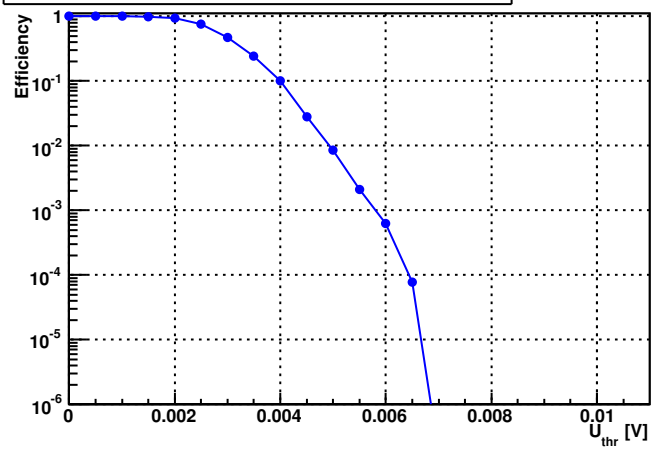
Signal to noise

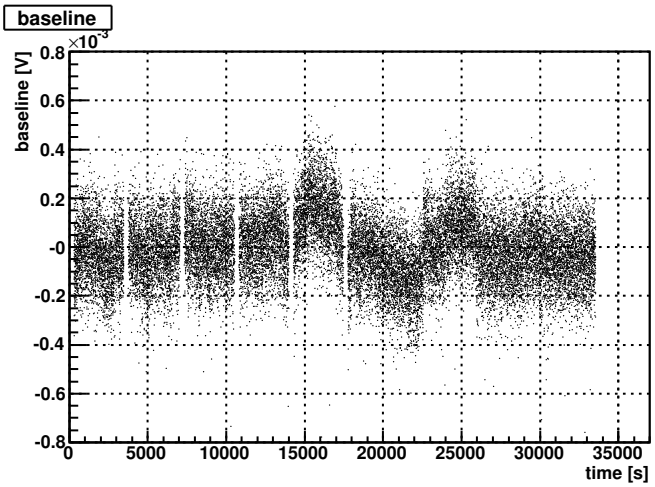


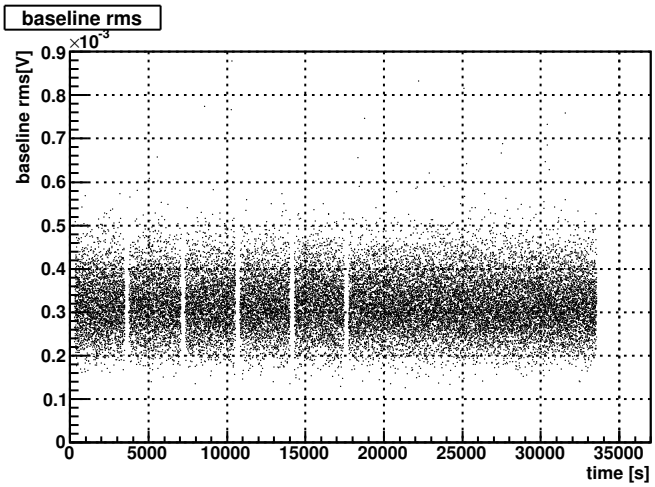
Occupancy vs Threshold, HV=-1000V

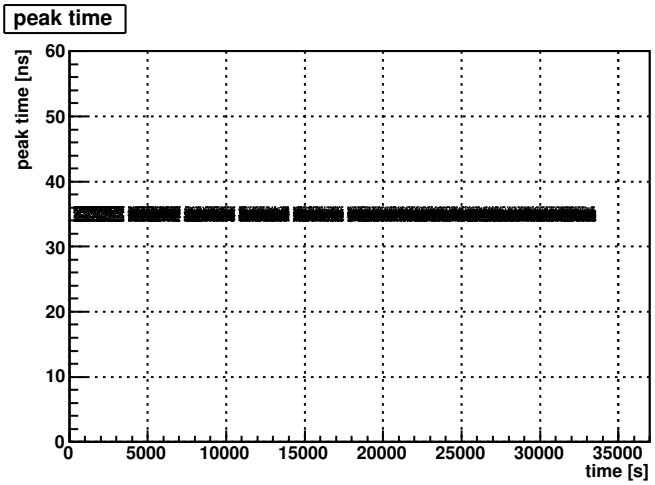


Efficiency vs Threshold, HV=1000V, U_{cut}=-1.0mV




baseline
×10⁻³
baseline [V]
time [s]


baseline rms
×10⁻³
baseline rms[V]
time [s]


peak time
peak time [ns]
time [s]

Data File = SP_050913124341_Fotec402-A230-08_A230-10-measurement3.xls
Upper Diamond = A230-08, $\sim 500 \mu m$ thick, Au metailzation
Lower Diamond = A230-10, $\sim 500 \mu m$ thick, Au metailzation