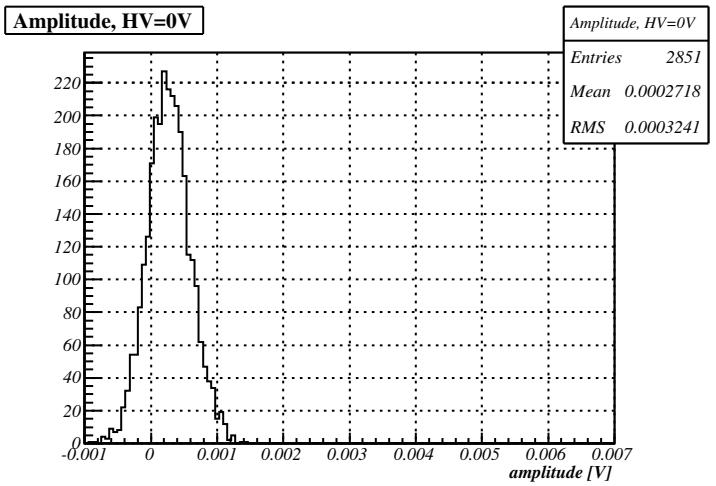
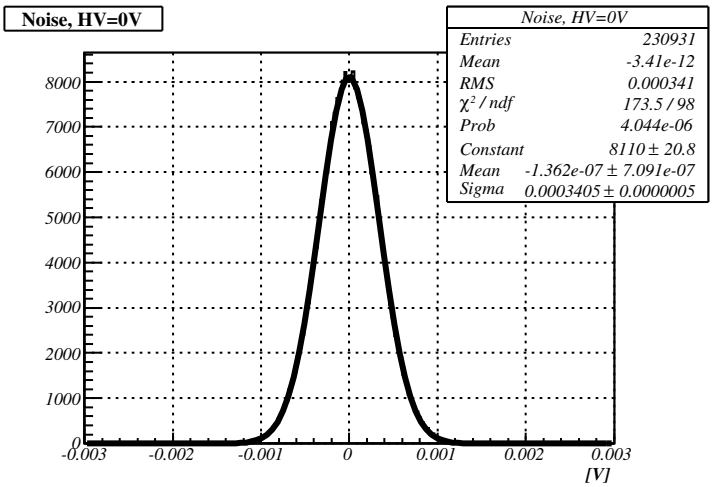
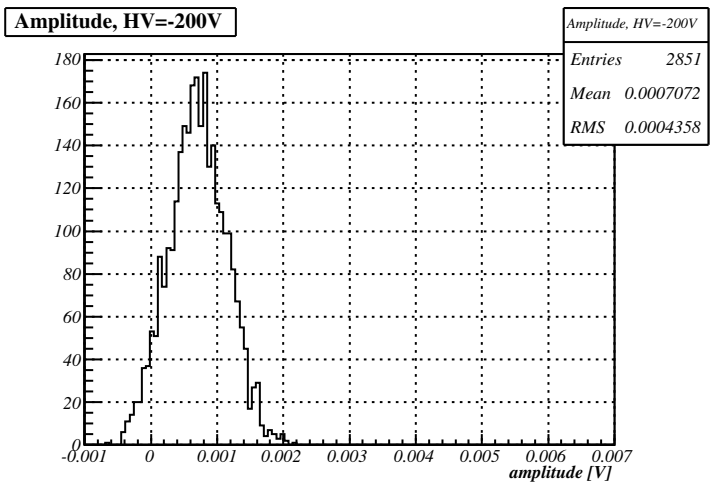
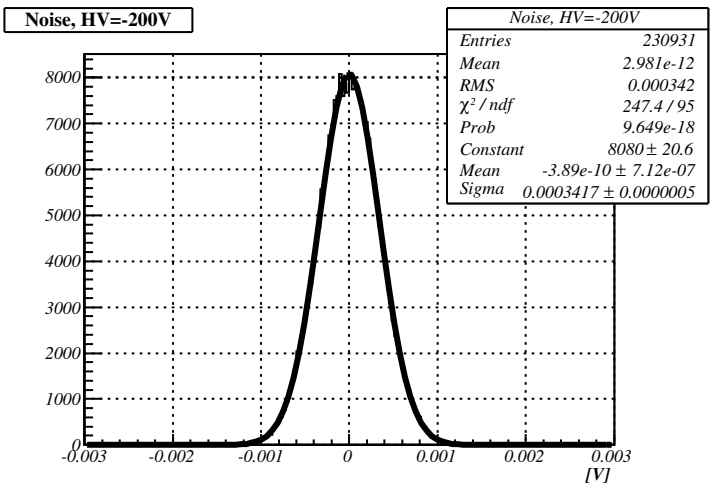
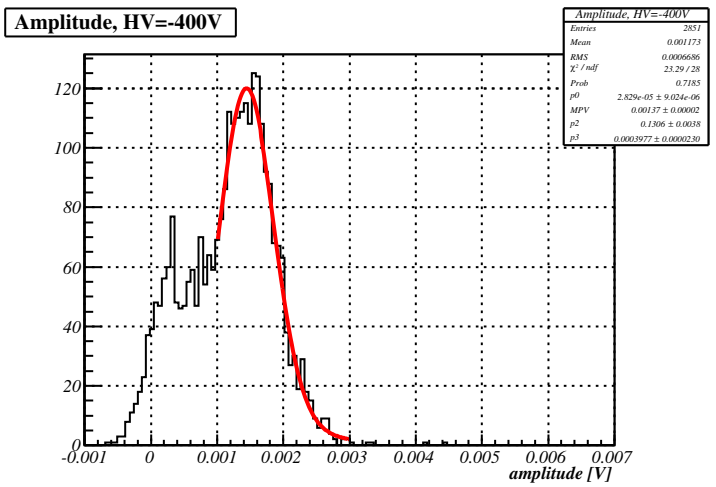
Fotec Box 403, (A382-7 and CDS160), Measurement 3 (BWL 200MHz)

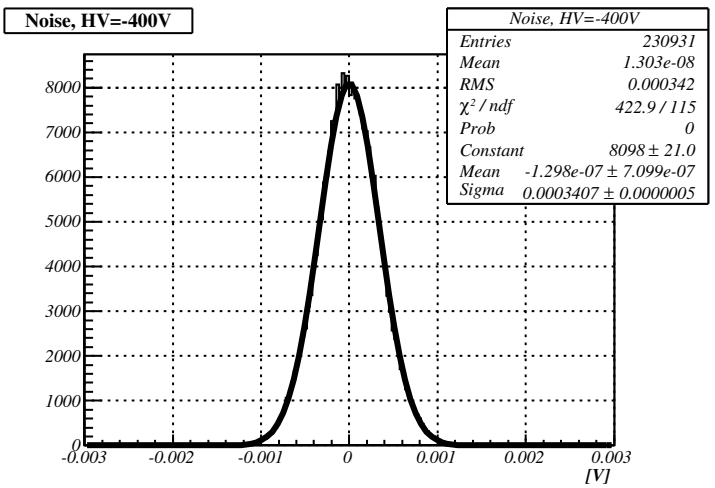


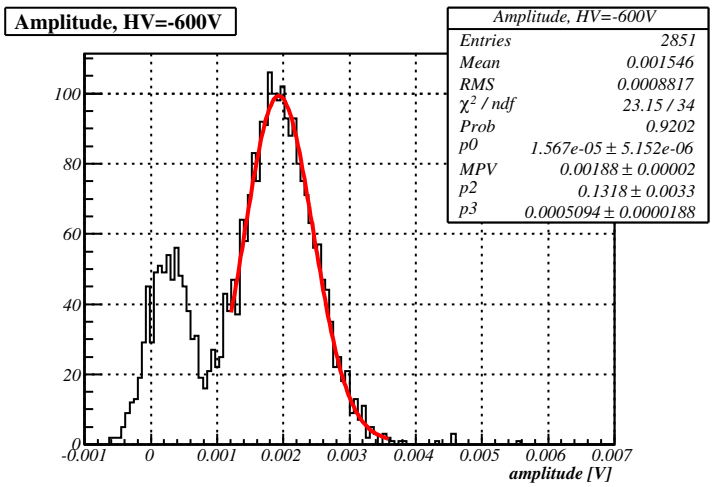


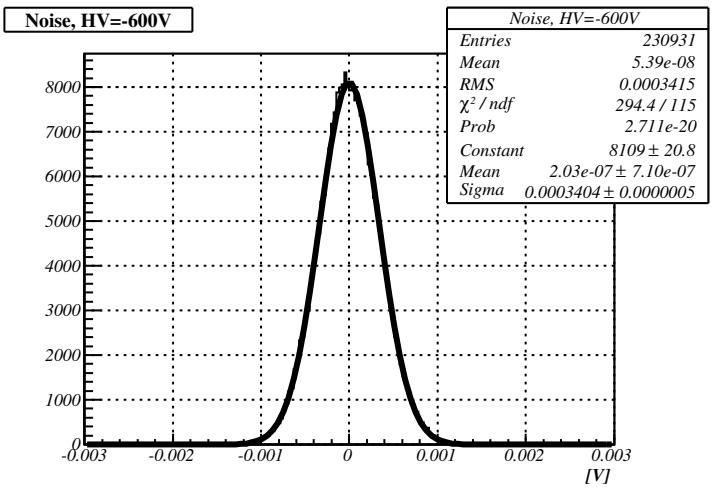


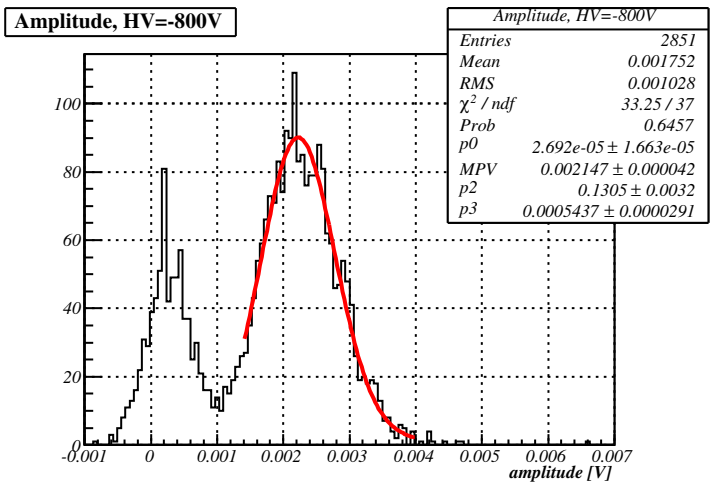


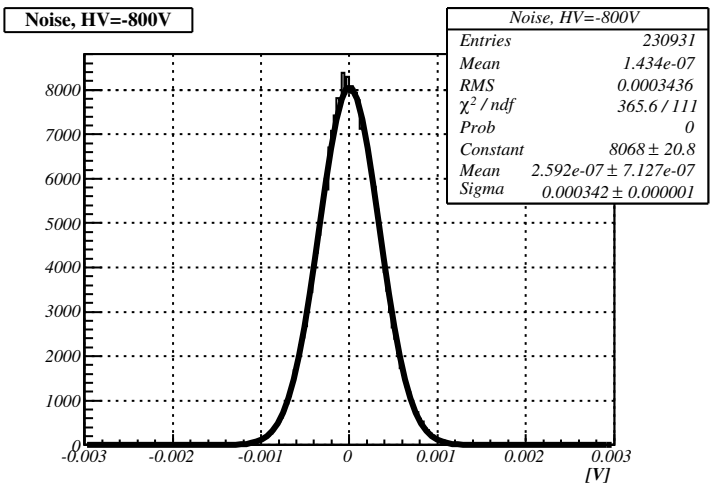


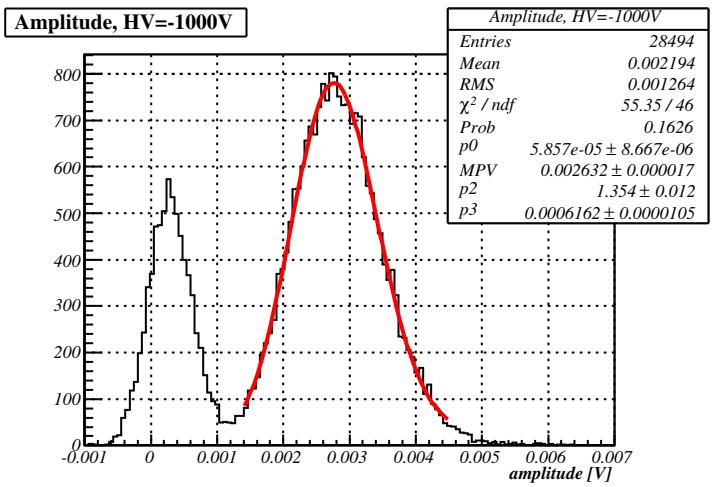


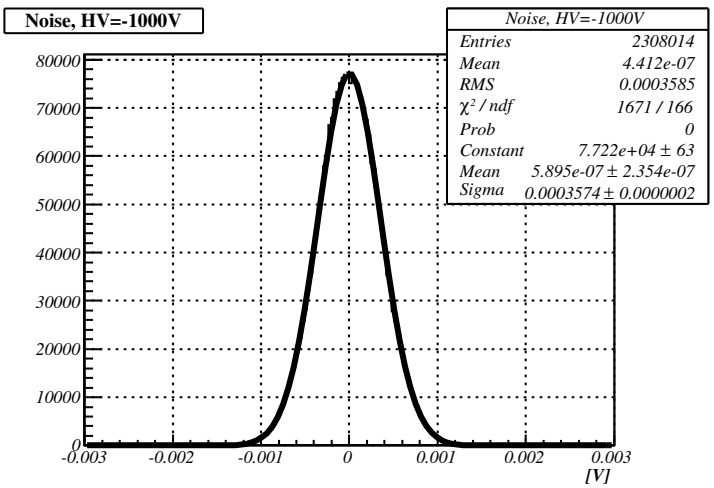

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.001546
RMS 0.0008817
χ² / ndf 23.15 / 34
Prob 0.9202
p0 1.567e-05 ± 5.152e-06
MPV 0.00188 ± 0.00002
p2 0.1318 ± 0.0033
p3 0.0005094 ± 0.0000188
amplitude [V]


Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean 5.39e-08
RMS 0.0003415
χ² / ndf 294.4 / 115
Prob 2.711e-20
Constant 8109 ± 20.8
Mean 2.03e-07 ± 7.10e-07
Sigma 0.0003404 ± 0.0000005
[V]

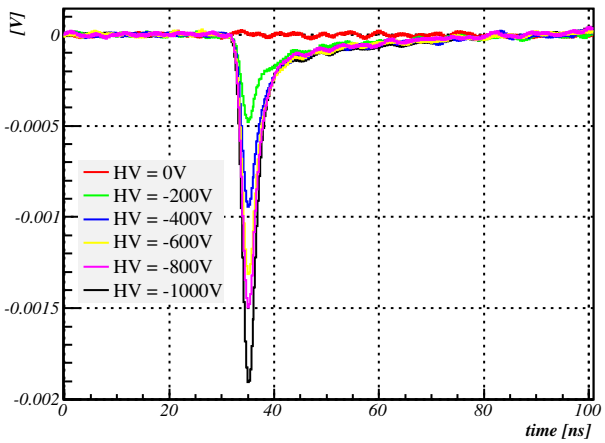

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2851
Mean 0.001752
RMS 0.001028
χ² / ndf 33.25 / 37
Prob 0.6457
p0 2.692e-05 ± 1.663e-05
MPV 0.002147 ± 0.000042
p2 0.1305 ± 0.0032
p3 0.0005437 ± 0.0000291
amplitude [V]

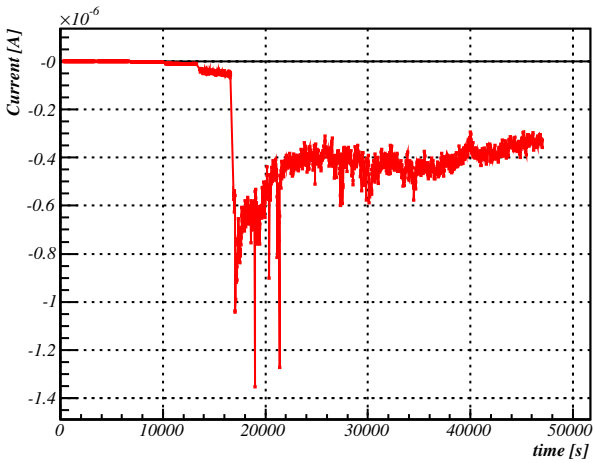

Noise, HV=-800V
Noise, HV=-800V
Entries 230931
Mean 1.434e-07
RMS 0.0003436
χ² / ndf 365.6 / 111
Prob 0
Constant 8068 ± 20.8
Mean 2.592e-07 ± 7.127e-07
Sigma 0.000342 ± 0.000001
[V]


Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 28494
Mean 0.002194
RMS 0.001264
χ² / ndf 55.35 / 46
Prob 0.1626
p0 5.857e-05 ± 8.667e-06
MPV 0.002632 ± 0.000017
p2 1.354 ± 0.012
p3 0.0006162 ± 0.0000105
amplitude [V]

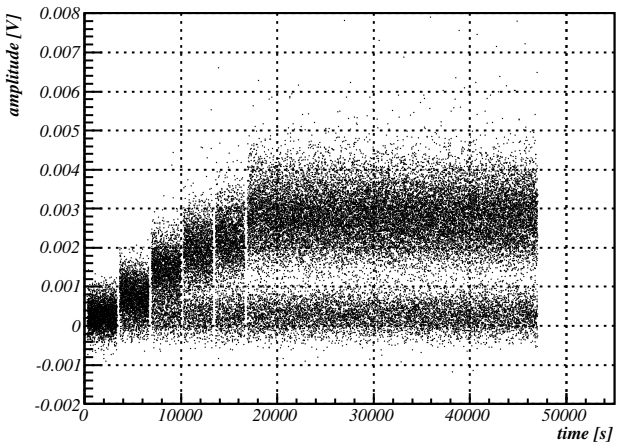

Noise, HV=-1000V
Noise, HV=-1000V
Entries 2308014
Mean 4.412e-07
RMS 0.0003585
χ² / ndf 1671 / 166
Prob 0
Constant 7.722e+04 ± 63
Mean 5.895e-07 ± 2.354e-07
Sigma 0.0003574 ± 0.0000002
[V]

Average event

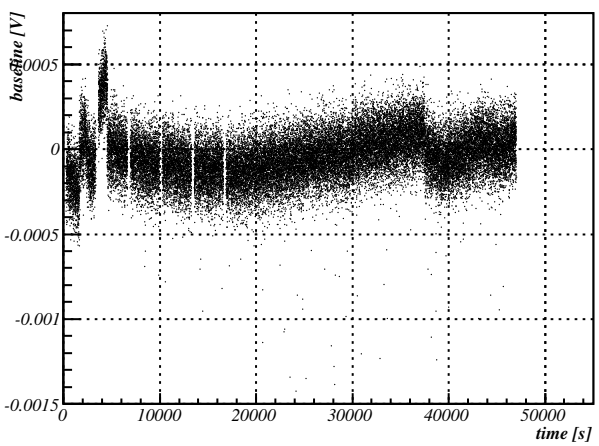




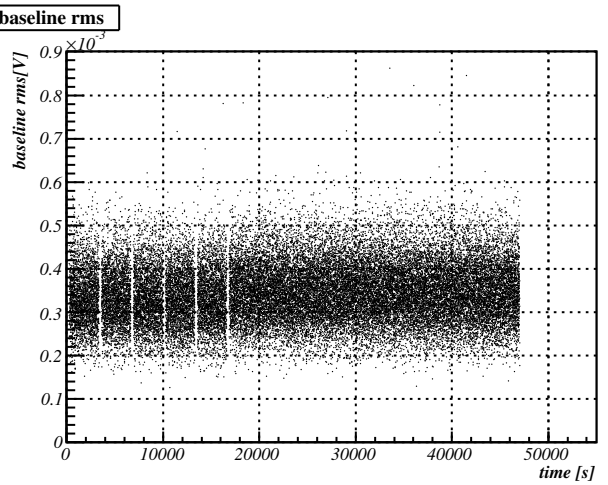
amplitudes



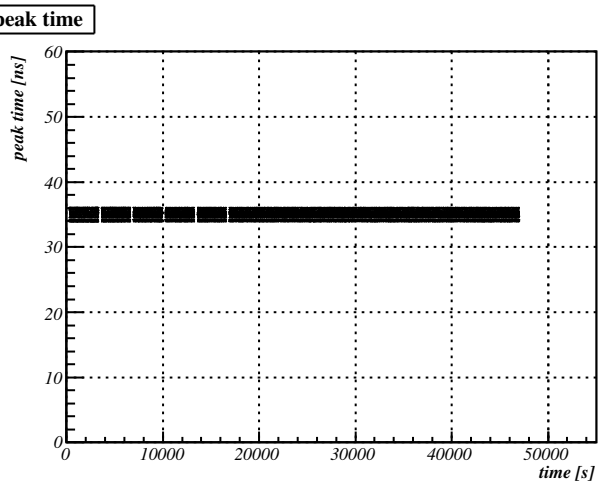
baseline



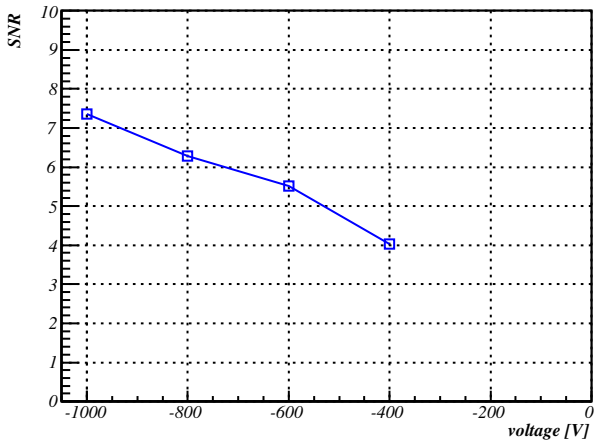
baseline rms



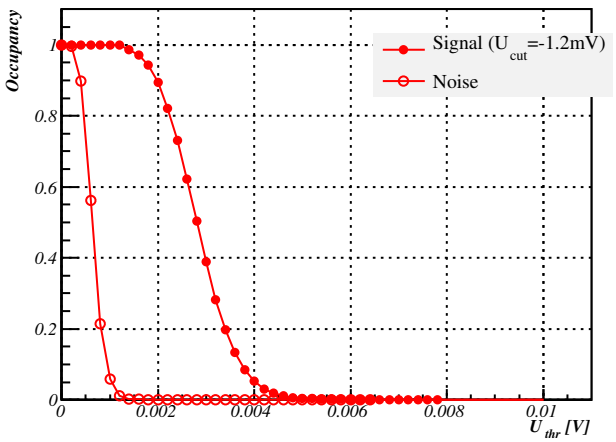
peak time



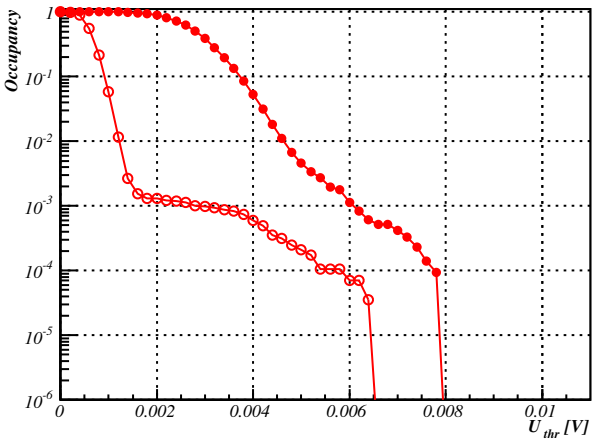
Signal to noise



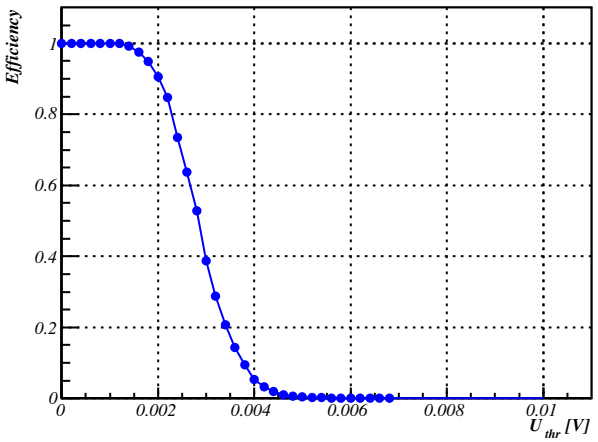
Occupancy vs Threshold, HV=-1000V



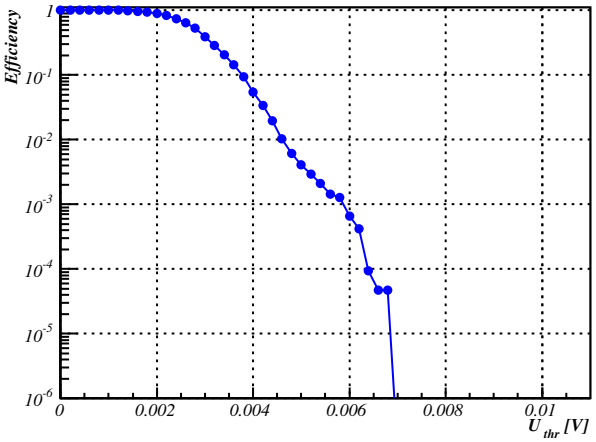
Occupancy vs Threshold, HV=-1000V



Efficiency vs Threshold, HV=1000V, U_{cut}=-1.2mV



Efficiency vs Threshold, HV=1000V, U_{cut}=-1.2mV



Data File = SP_060612114632_Fotec403_A382-7_CDS160_measurement3.xls
Upper Diamond = A382-7
Lower Diamond = CDS160
Maček ceramic Ass. #11