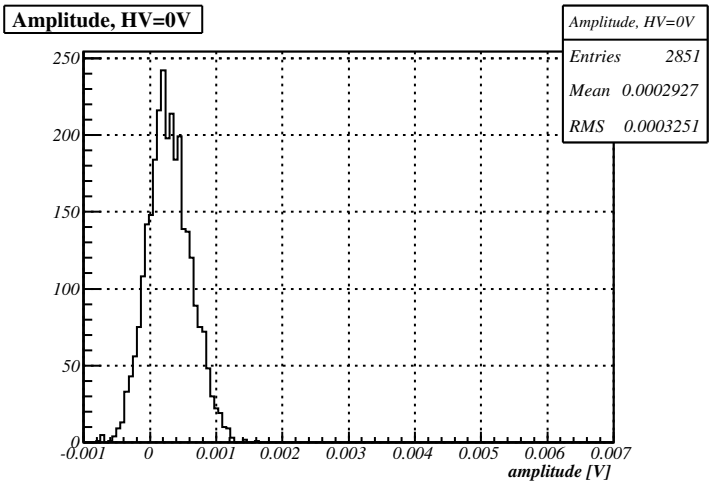
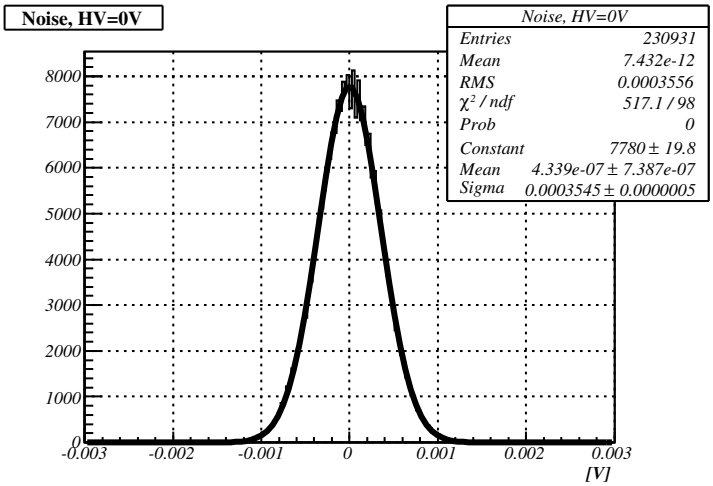
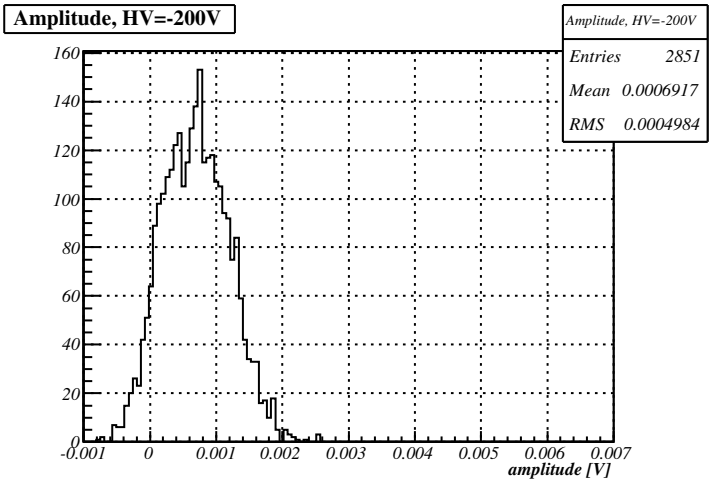
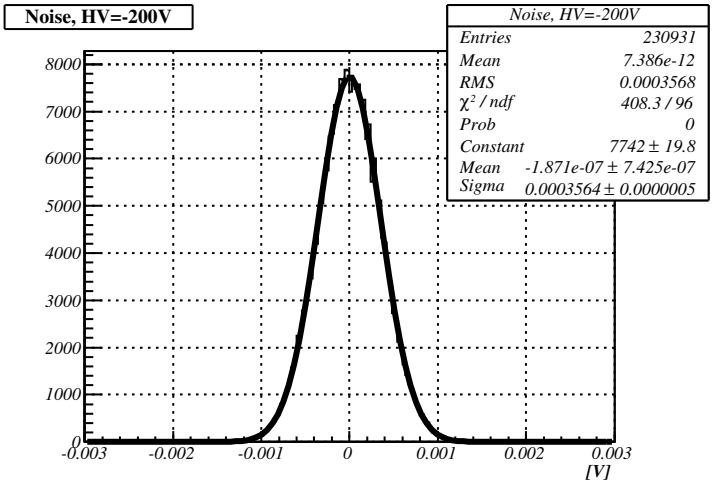
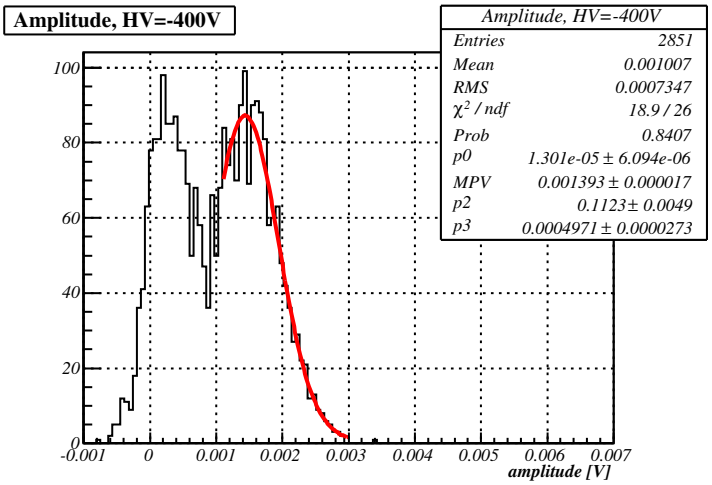
Fotec Box 404, (A230-9 and A422-6), Measurement 3 (BWL 200MHz)

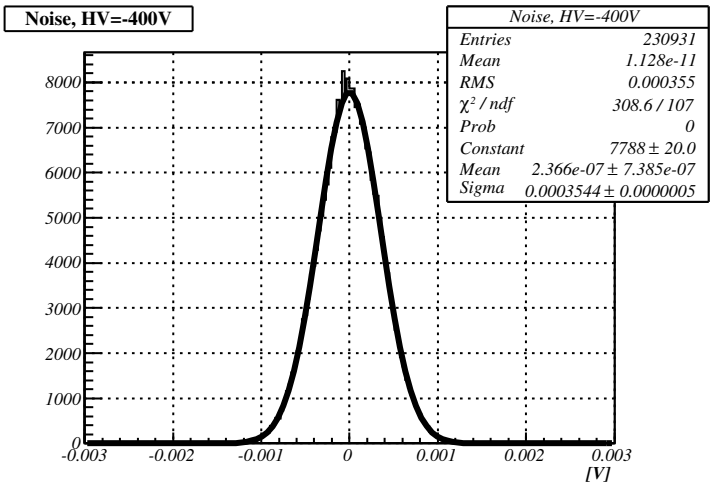


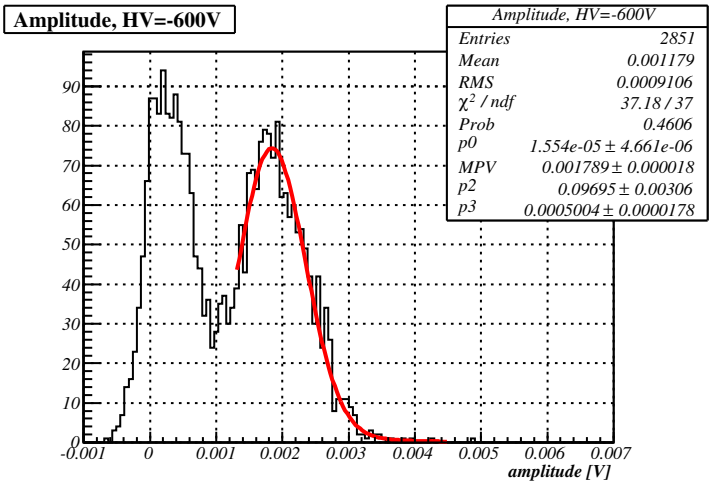


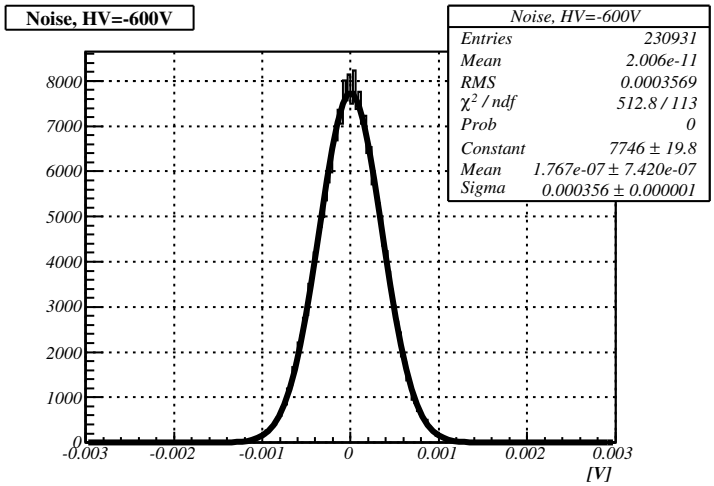


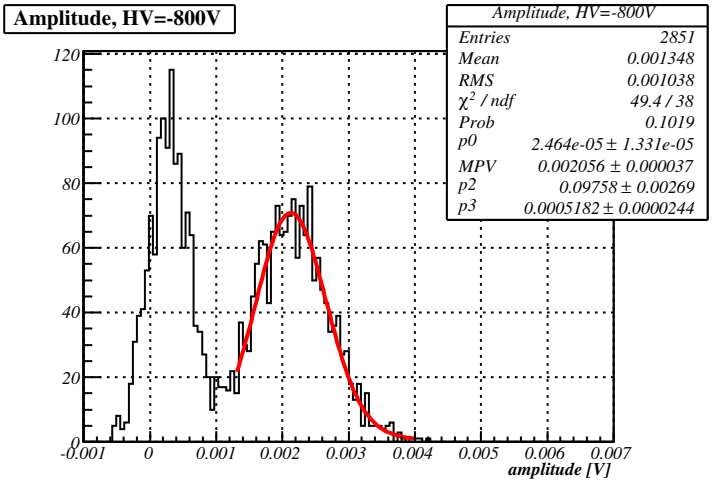


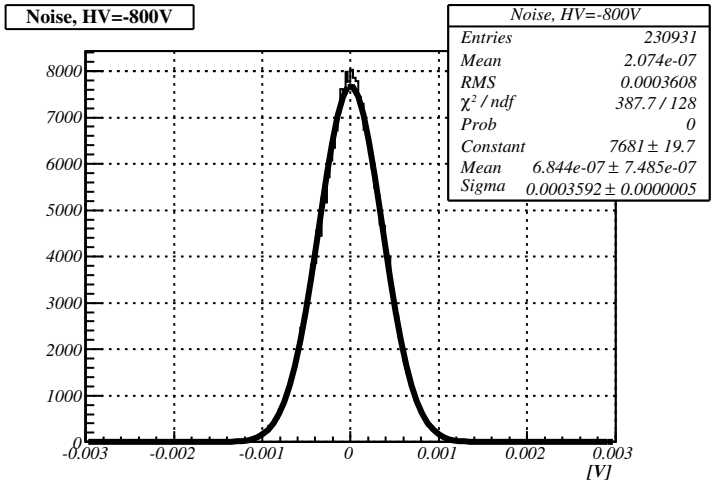


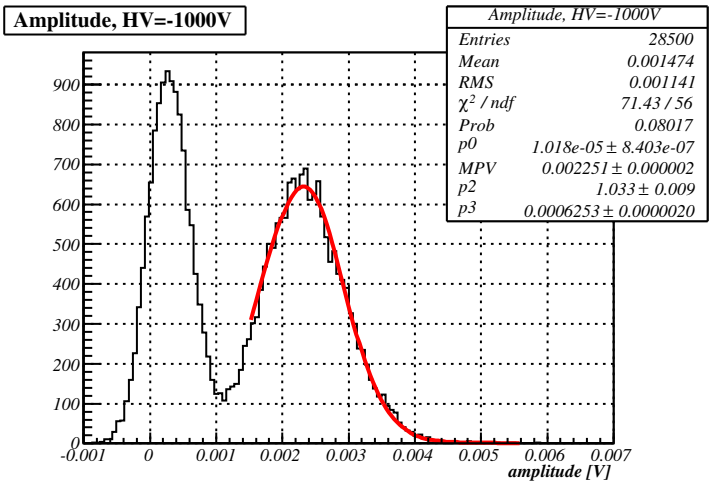


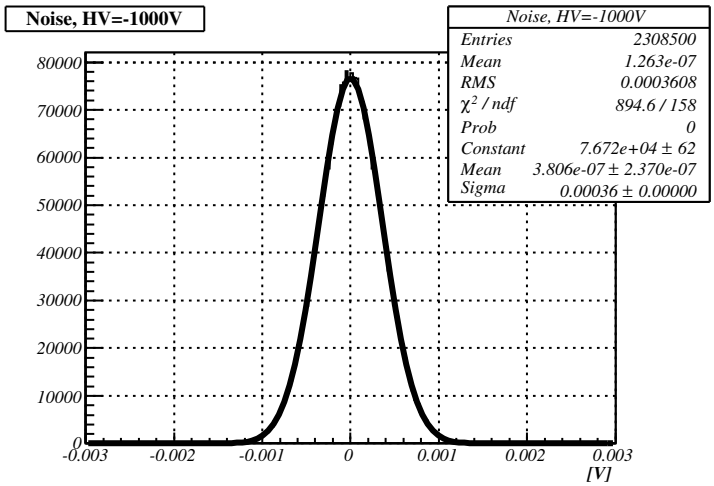

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.001179
RMS 0.0009106
χ² / ndf 37.18 / 37
Prob 0.4606
p0 1.554e-05 ± 4.661e-06
MPV 0.001789 ± 0.000018
p2 0.09695 ± 0.00306
p3 0.0005004 ± 0.0000178
amplitude [V]


Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean 2.006e-11
RMS 0.0003569
χ² / ndf 512.8 / 113
Prob 0
Constant 7746 ± 19.8
Mean 1.767e-07 ± 7.420e-07
Sigma 0.000356 ± 0.000001
[V]

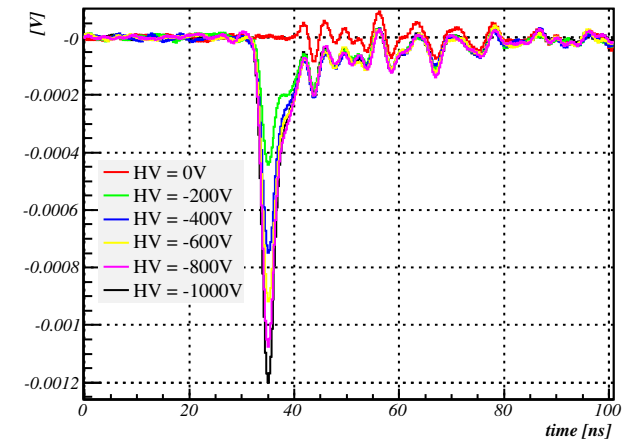

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2851
Mean 0.001348
RMS 0.001038
χ² / ndf 49.4 / 38
Prob 0.1019
p0 2.464e-05 ± 1.331e-05
MPV 0.002056 ± 0.000037
p2 0.09758 ± 0.00269
p3 0.0005182 ± 0.0000244
amplitude [V]

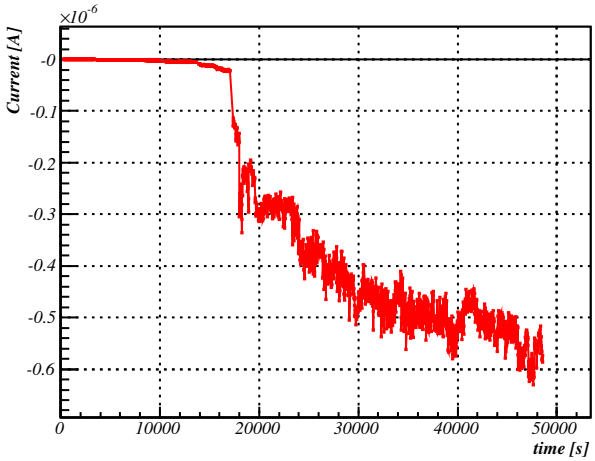

Noise, HV=-800V
Noise, HV=-800V
Entries 230931
Mean 2.074e-07
RMS 0.0003608
χ² / ndf 387.7 / 128
Prob 0
Constant 7681 ± 19.7
Mean 6.844e-07 ± 7.485e-07
Sigma 0.0003592 ± 0.0000005
[V]


Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 28500
Mean 0.001474
RMS 0.001141
χ² / ndf 71.43 / 56
Prob 0.08017
p0 1.018e-05 ± 8.403e-07
MPV 0.002251 ± 0.000002
p2 1.033 ± 0.009
p3 0.0006253 ± 0.0000020
amplitude [V]

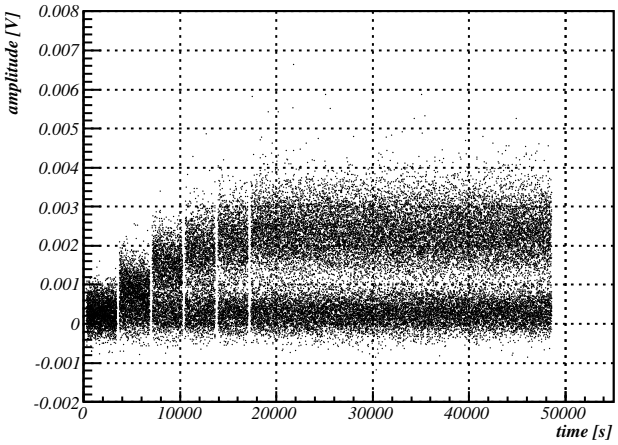

Noise, HV=-1000V
Noise, HV=-1000V
Entries 2308500
Mean 1.263e-07
RMS 0.0003608
χ² / ndf 894.6 / 158
Prob 0
Constant 7.672e+04 ± 62
Mean 3.806e-07 ± 2.370e-07
Sigma 0.00036 ± 0.00000
[V]

Average event

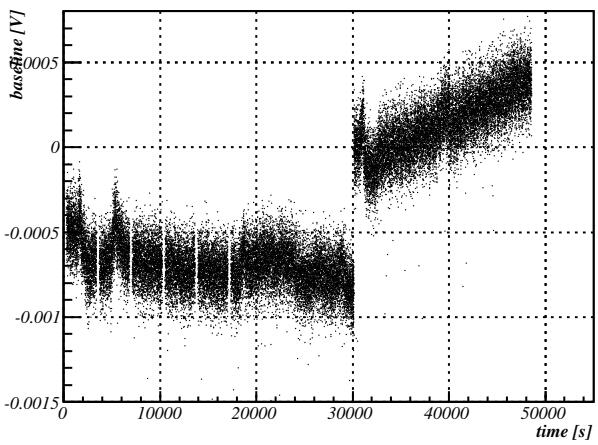




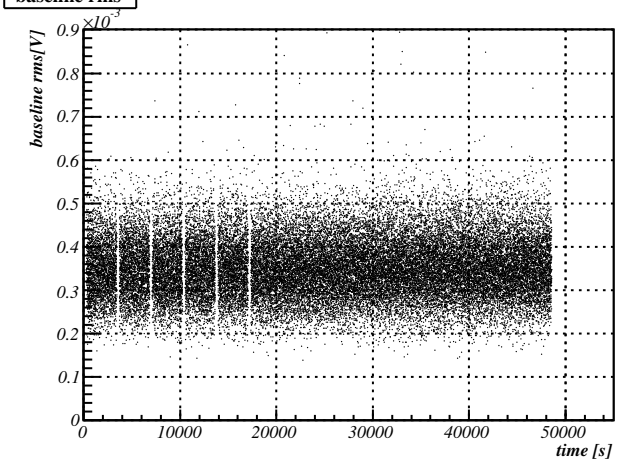
amplitudes



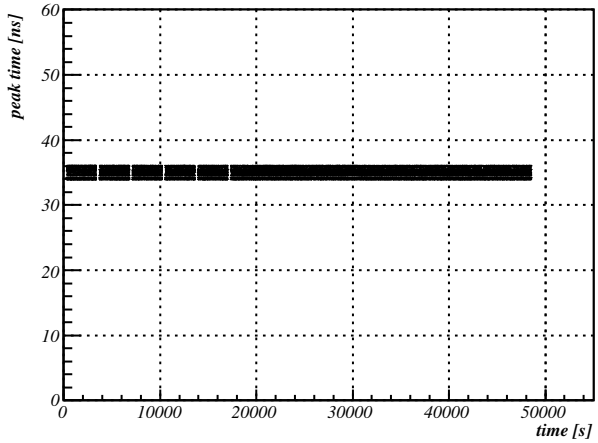
baseline



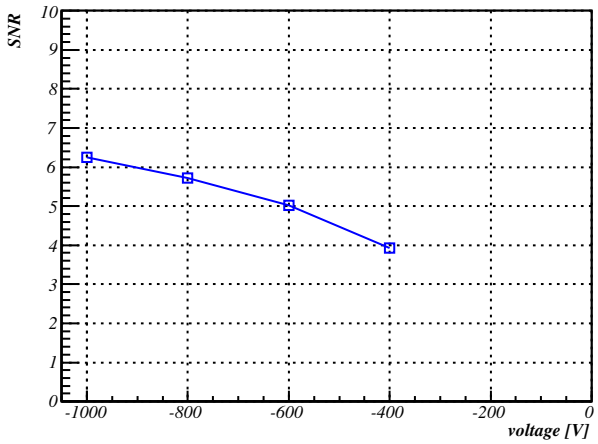
baseline rms



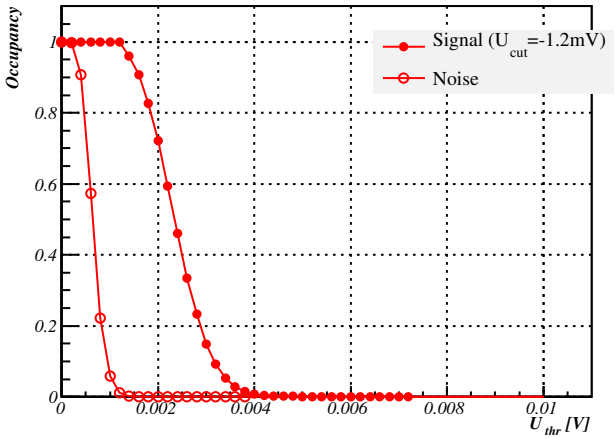
peak time



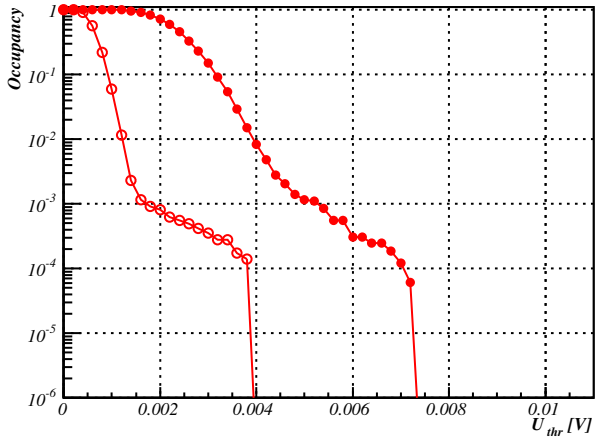
Signal to noise



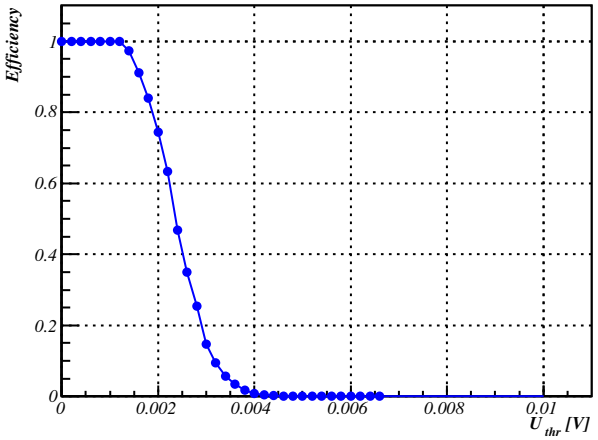
Occupancy vs Threshold, HV=-1000V



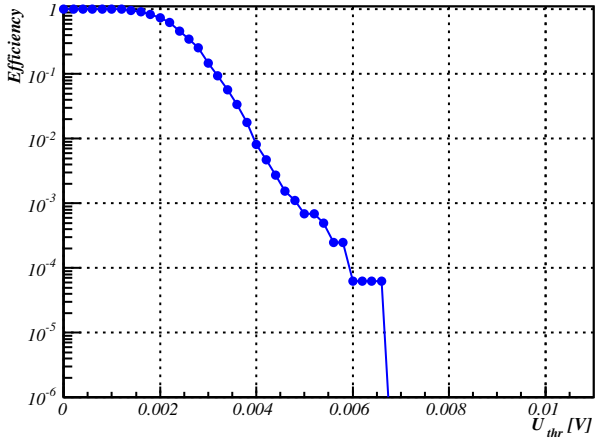
Occupancy vs Threshold, HV=-1000V



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



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



Data File = SP_060608094730_Fotec404-A230-9_A422-6-measurement3.xls
Upper Diamond = A230-9
Lower Diamond = A422-6
Maček ceramic Ass. #9