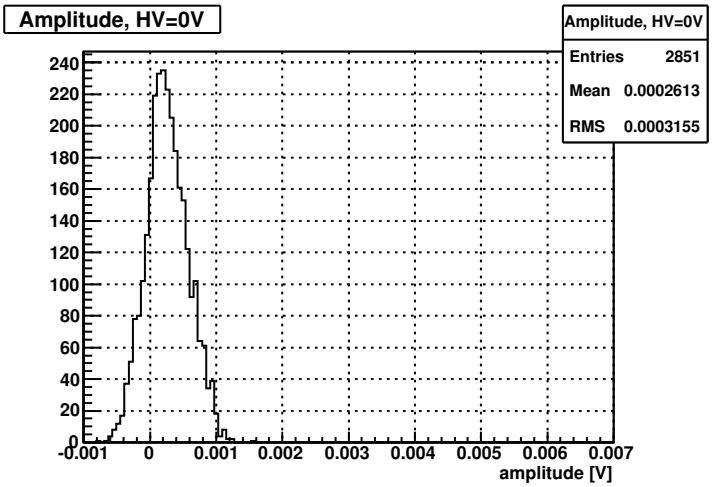
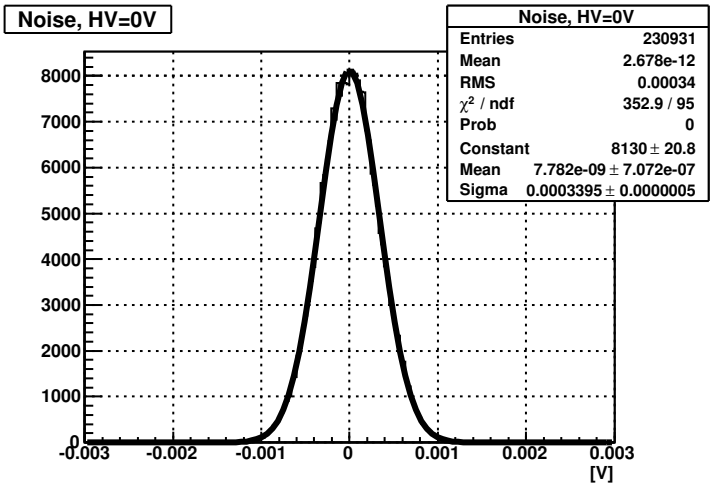
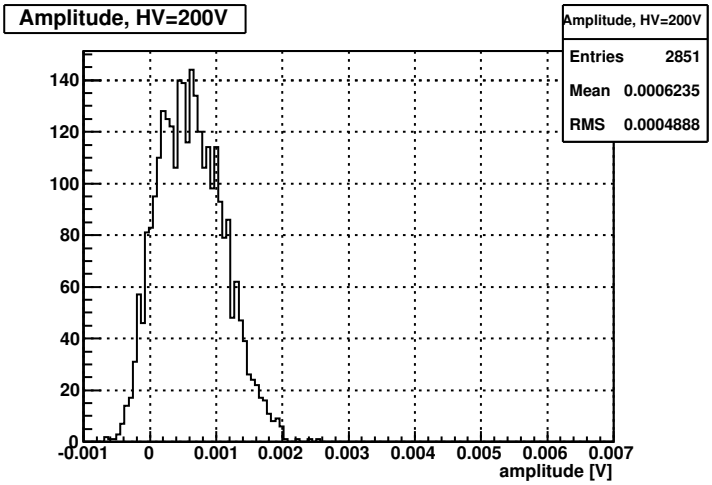
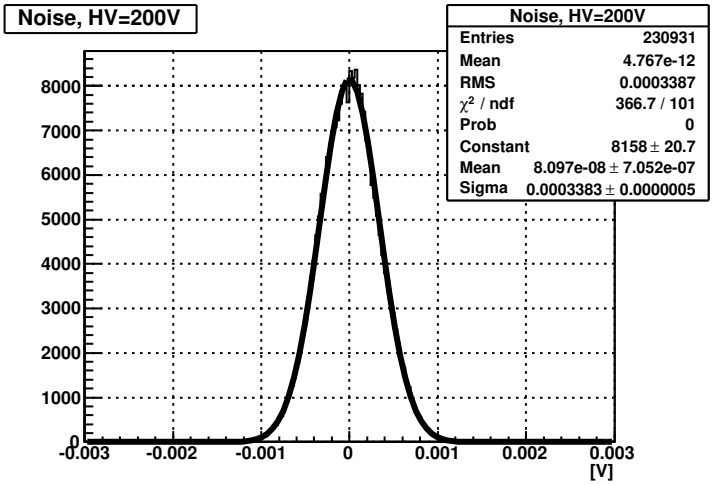
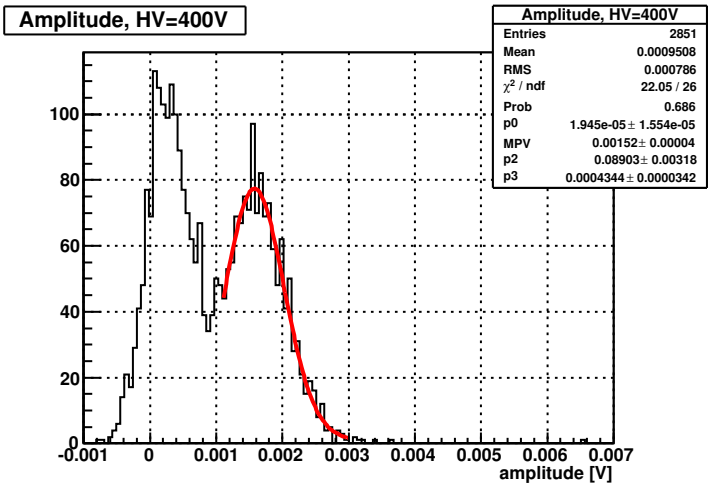
Fotec Box 405, (A422-3 and A422-4), Measurement 1 (BWL 200MHz)

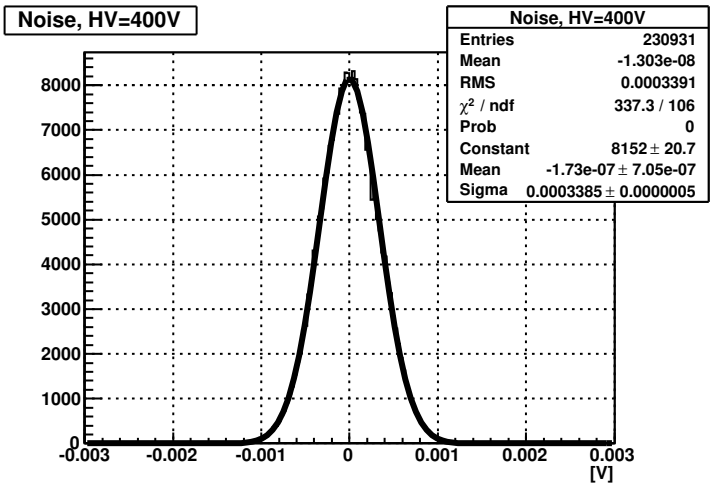


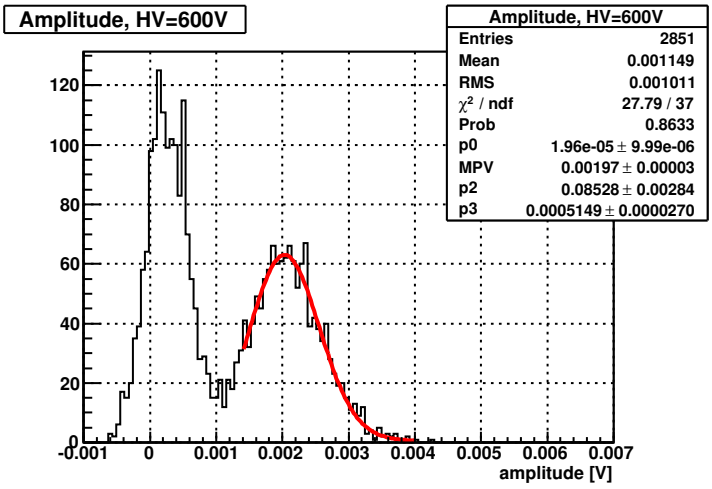


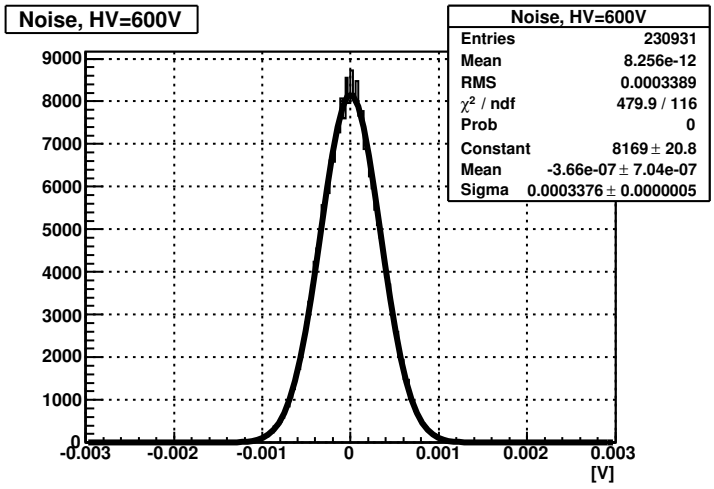


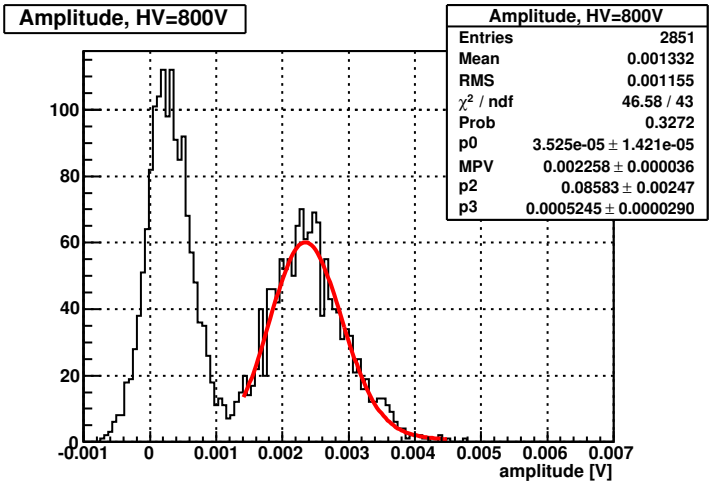


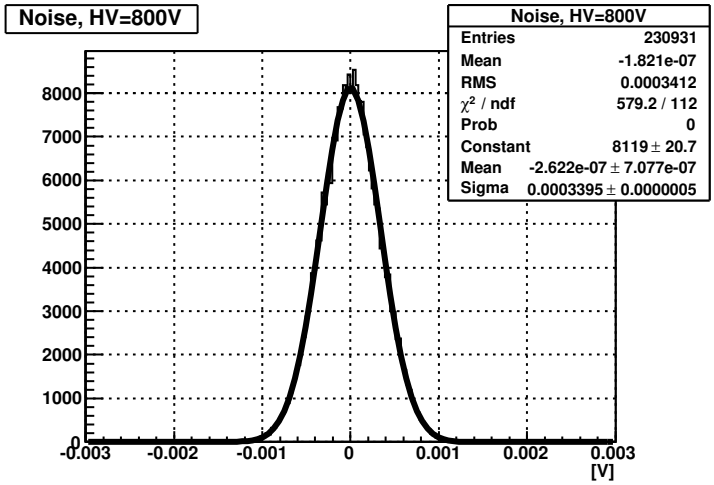


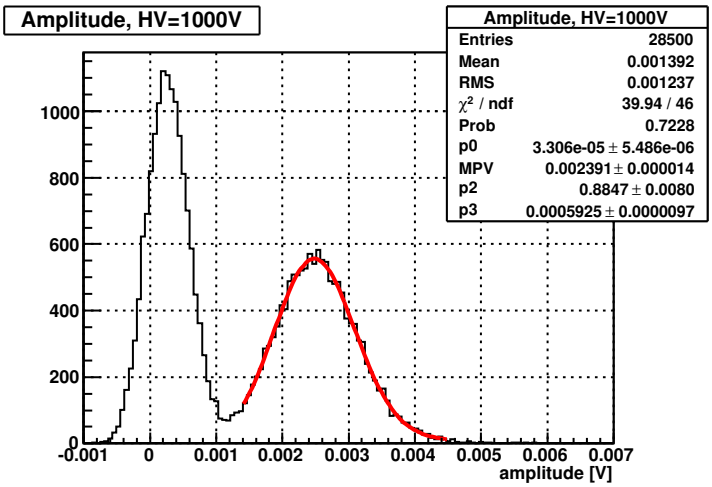


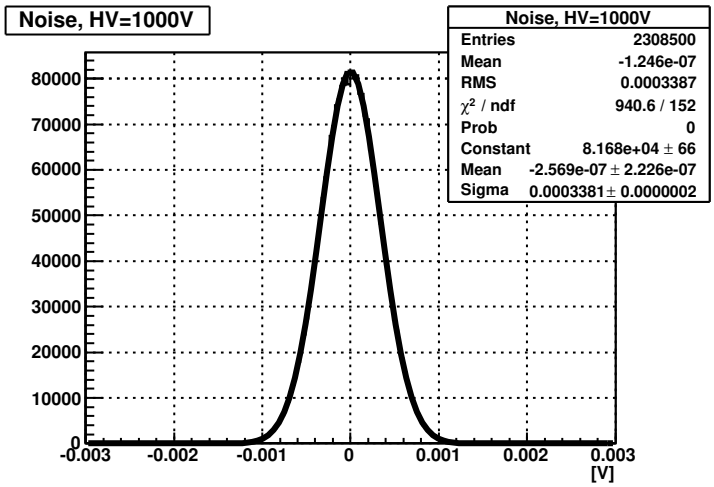

Amplitude, HV=600V
Amplitude, HV=600V
Entries 2851
Mean 0.001149
RMS 0.001011
χ² / ndf 27.79 / 37
Prob 0.8633
p0 1.96e-05 ± 9.99e-06
MPV 0.00197 ± 0.00003
p2 0.08528 ± 0.00284
p3 0.0005149 ± 0.0000270
amplitude [V]


Noise, HV=600V
Noise, HV=600V
Entries 230931
Mean 8.256e-12
RMS 0.0003389
χ² / ndf 479.9 / 116
Prob 0
Constant 8169 ± 20.8
Mean -3.66e-07 ± 7.04e-07
Sigma 0.0003376 ± 0.0000005
[V]

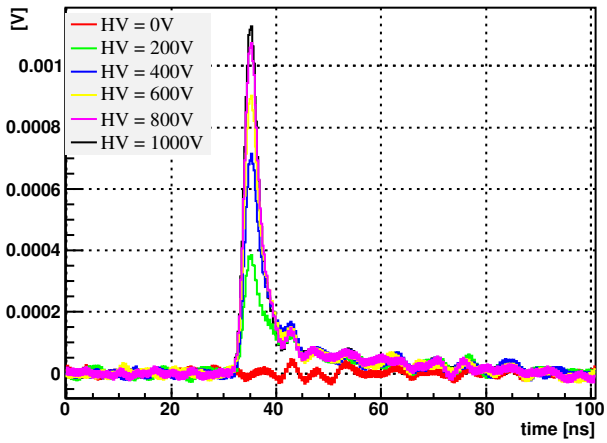

Amplitude, HV=800V
Amplitude, HV=800V
Entries 2851
Mean 0.001332
RMS 0.001155
χ² / ndf 46.58 / 43
Prob 0.3272
p0 3.525e-05 ± 1.421e-05
MPV 0.002258 ± 0.000036
p2 0.08583 ± 0.00247
p3 0.0005245 ± 0.0000290
amplitude [V]

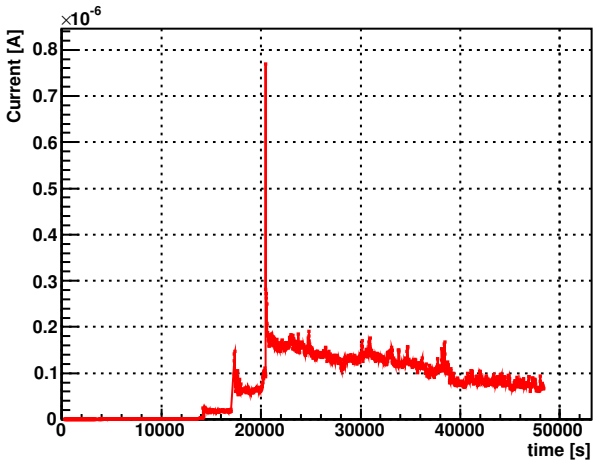

Noise, HV=800V
Noise, HV=800V
Entries 230931
Mean -1.821e-07
RMS 0.0003412
χ² / ndf 579.2 / 112
Prob 0
Constant 8119 ± 20.7
Mean -2.622e-07 ± 7.077e-07
Sigma 0.0003395 ± 0.0000005
[V]


Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 28500
Mean 0.001392
RMS 0.001237
χ² / ndf 39.94 / 46
Prob 0.7228
p0 3.306e-05 ± 5.486e-06
MPV 0.002391 ± 0.000014
p2 0.8847 ± 0.0080
p3 0.0005925 ± 0.0000097
amplitude [V]

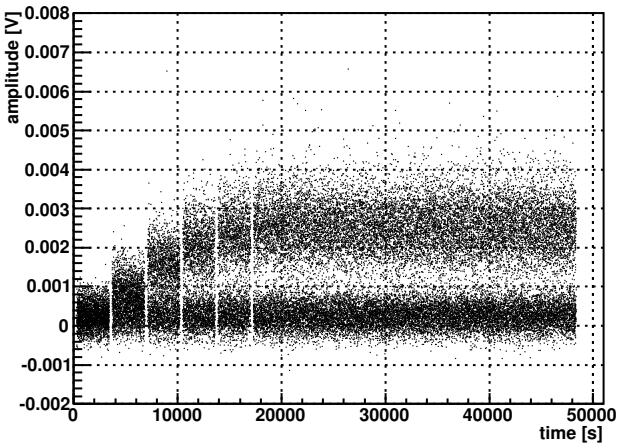

Noise, HV=1000V
Noise, HV=1000V
Entries 2308500
Mean -1.246e-07
RMS 0.0003387
χ² / ndf 940.6 / 152
Prob 0
Constant 8.168e+04 ± 66
Mean -2.569e-07 ± 2.226e-07
Sigma 0.0003381 ± 0.0000002
[V]

Average event

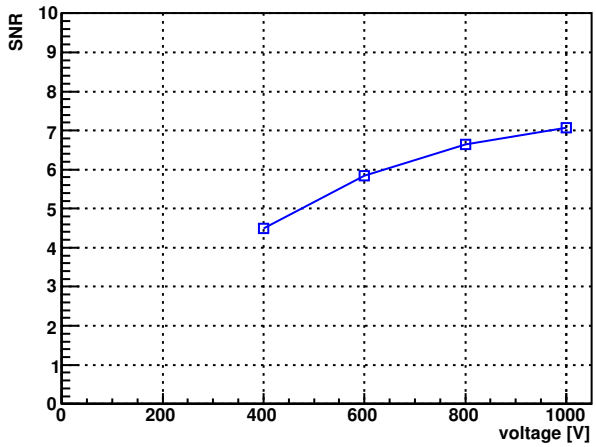




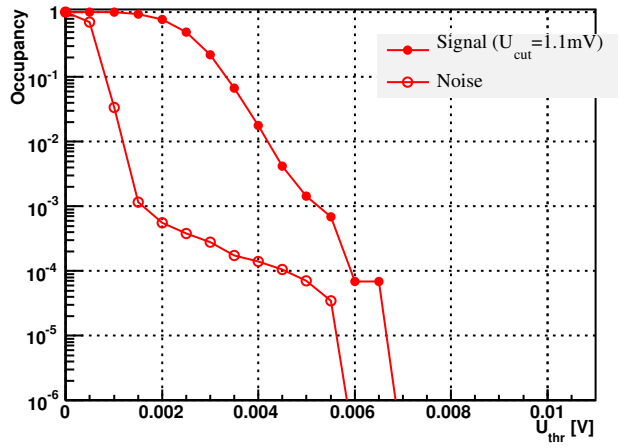
amplitudes



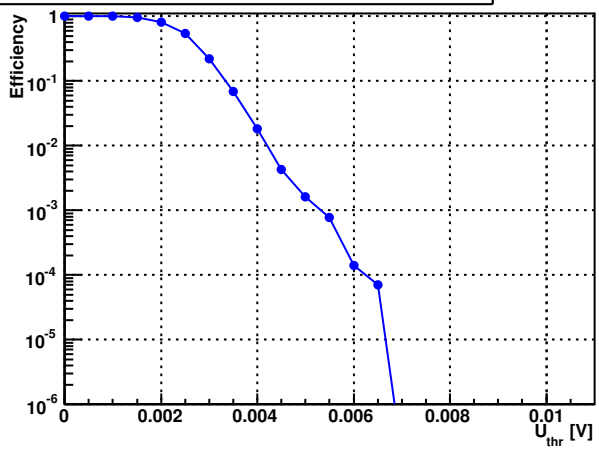
Signal to noise

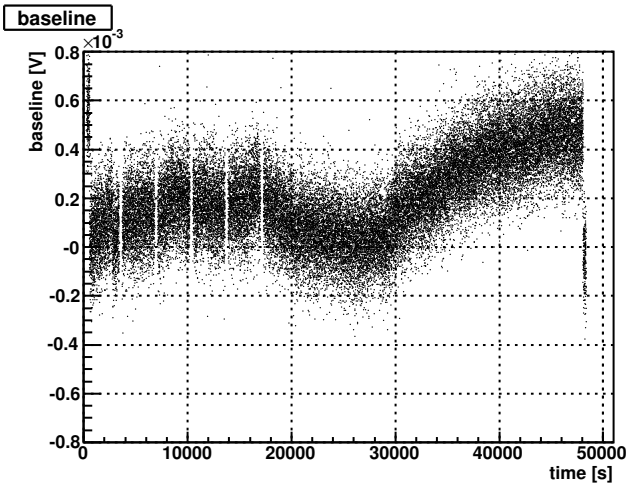


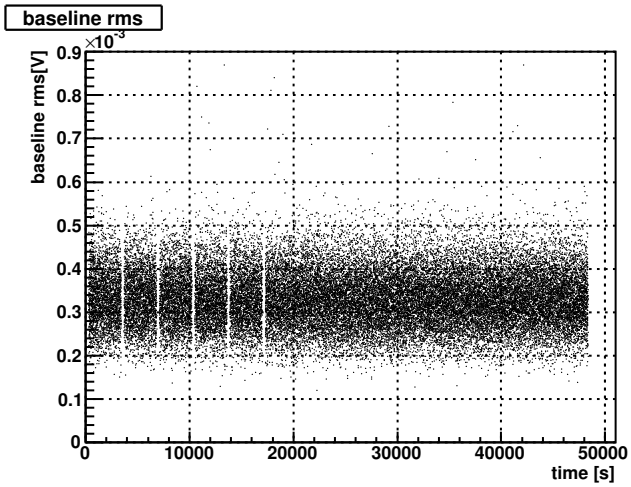
Occupancy vs Threshold, HV=1000V

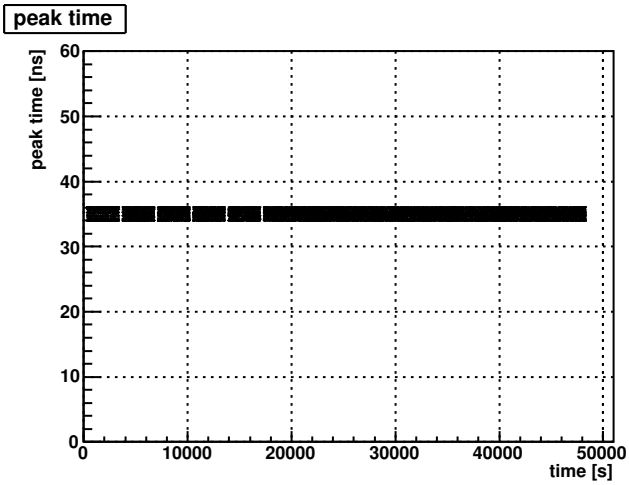


Efficiency vs Threshold, HV=1000V, U_cut=1.1mV




baseline
baseline [V]
×10⁻³
time [s]


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


peak time
peak time [ns]
time [s]

Data File = SP_060324144841_Fotec405_A422-4_A422-3_measurement1.xls
Upper Diamond = A422-4
Lower Diamond = A422-3
Maček ceramic Ass. #6