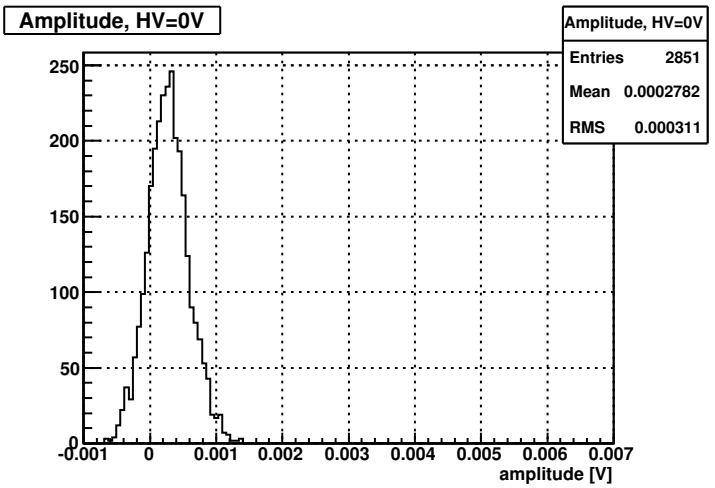
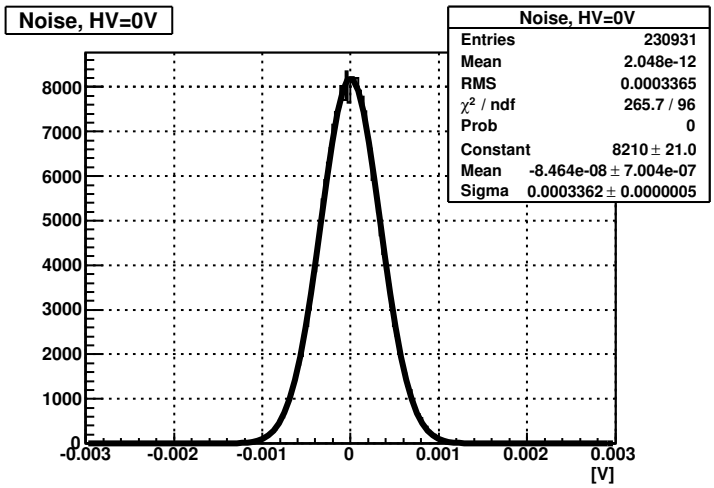
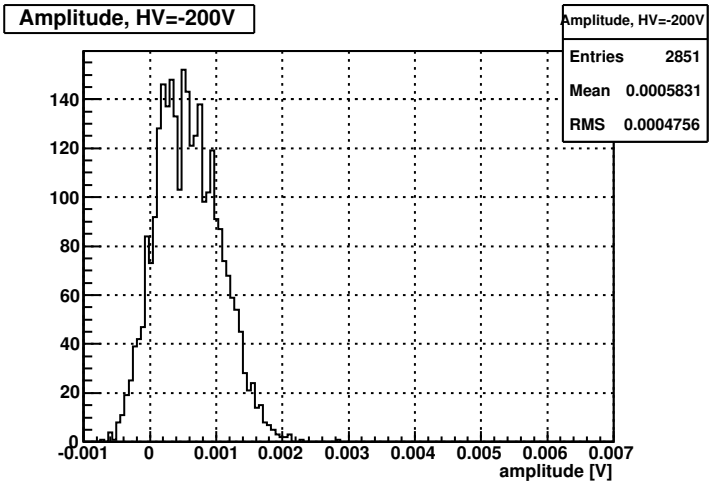
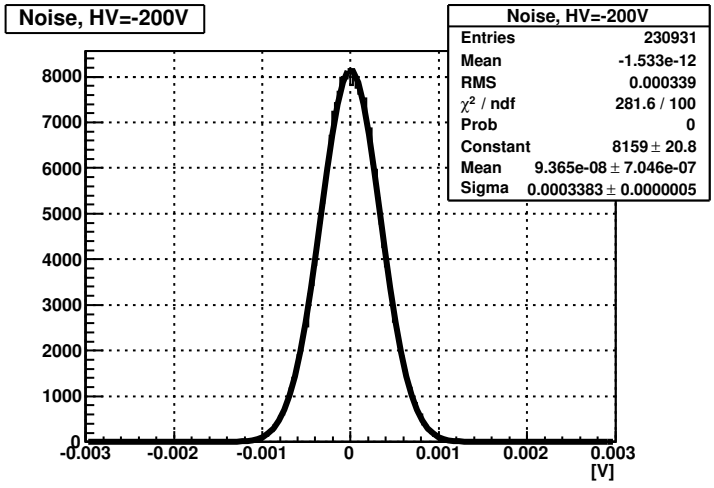
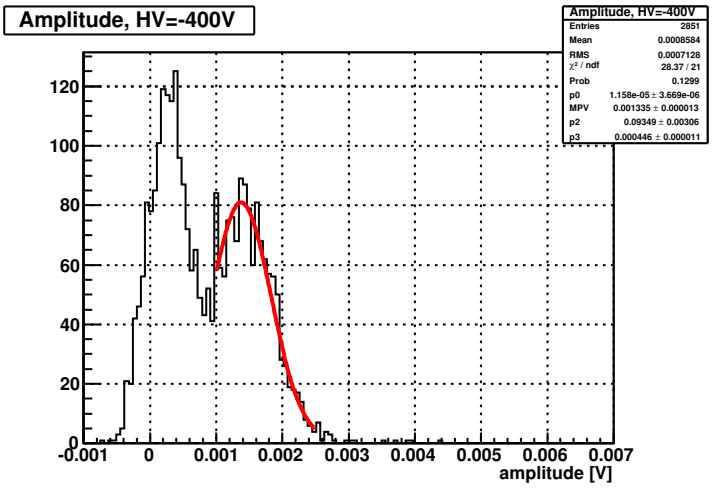
Fotec Box 405, (A422-3 and A422-4), Measurement 3 (BWL 200MHz)

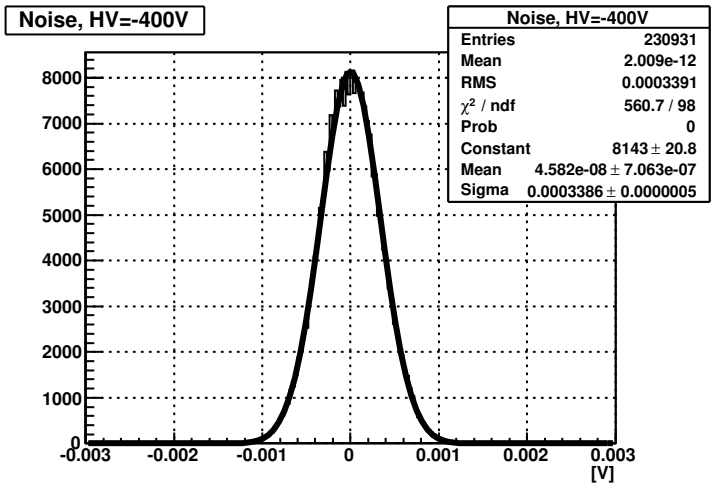


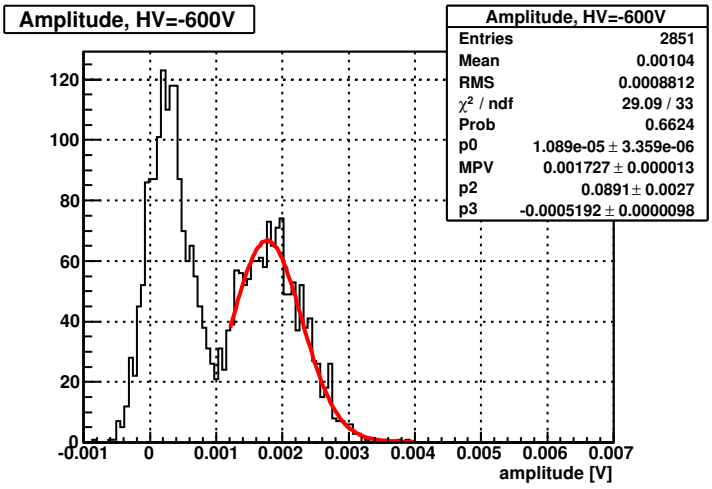


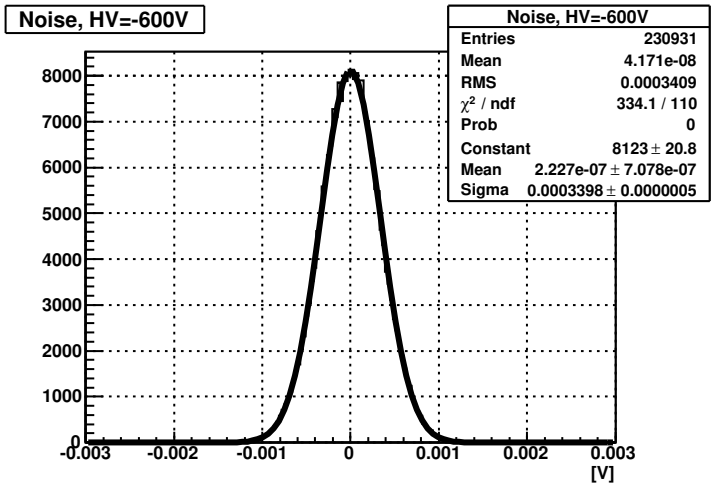


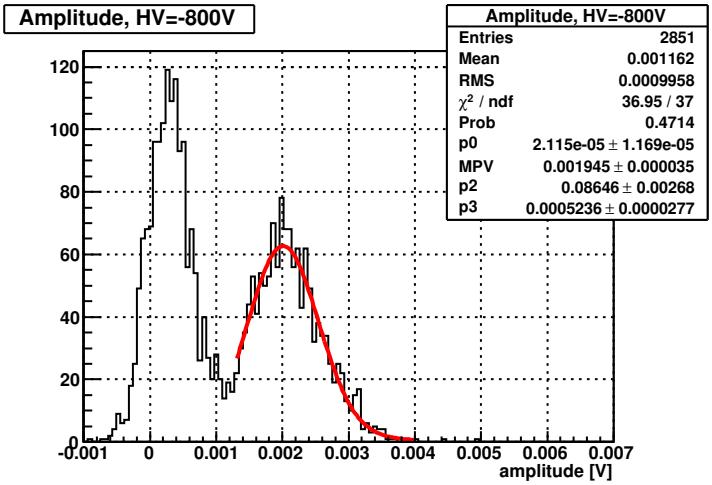


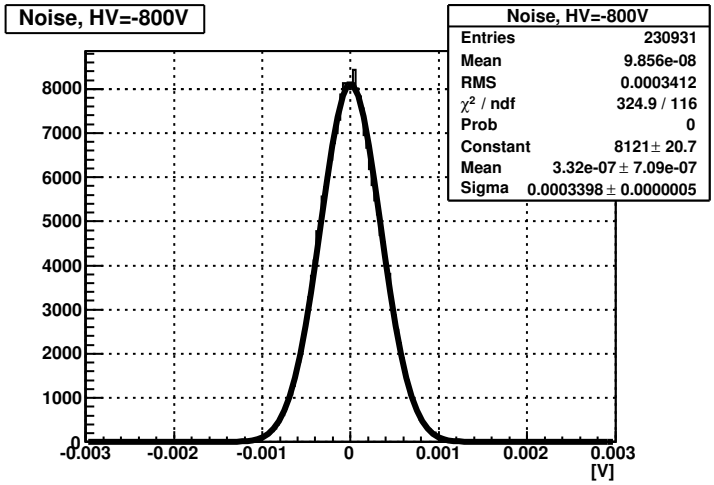


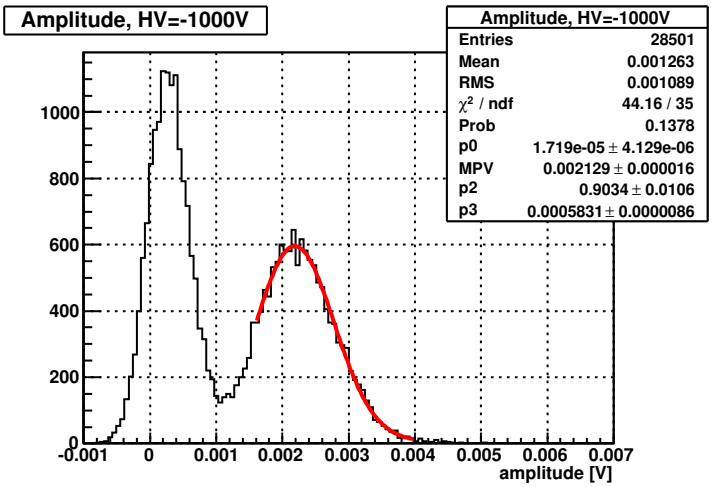


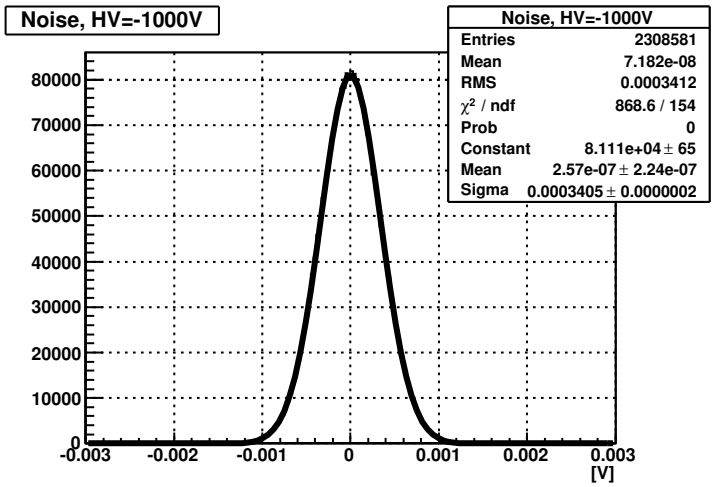

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.00104
RMS 0.0008812
χ² / ndf 29.09 / 33
Prob 0.6624
p0 1.089e-05 ± 3.359e-06
MPV 0.001727 ± 0.000013
p2 0.0891 ± 0.0027
p3 -0.0005192 ± 0.0000098
amplitude [V]


Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean 4.171e-08
RMS 0.0003409
χ² / ndf 334.1 / 110
Prob 0
Constant 8123 ± 20.8
Mean 2.227e-07 ± 7.078e-07
Sigma 0.0003398 ± 0.0000005
[V]

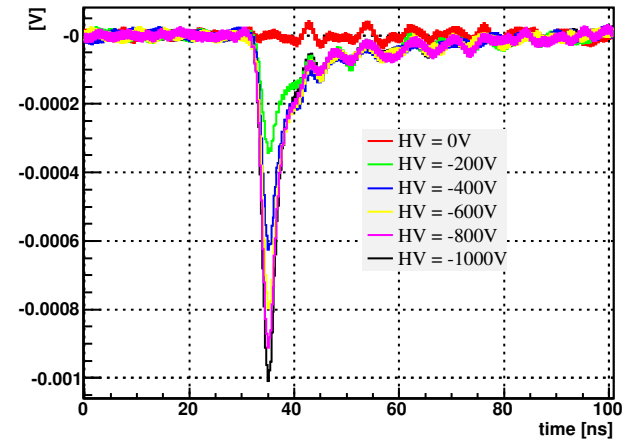

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2851
Mean 0.001162
RMS 0.0009958
χ² / ndf 36.95 / 37
Prob 0.4714
p0 2.115e-05 ± 1.169e-05
MPV 0.001945 ± 0.000035
p2 0.08646 ± 0.00268
p3 0.0005236 ± 0.0000277
amplitude [V]

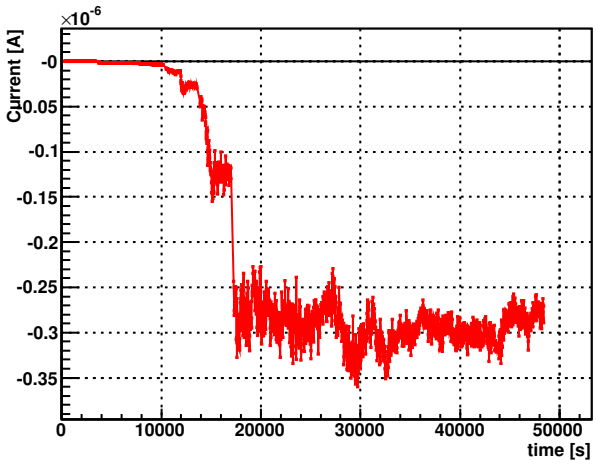

Noise, HV=-800V
Noise, HV=-800V
Entries 230931
Mean 9.856e-08
RMS 0.0003412
χ² / ndf 324.9 / 116
Prob 0
Constant 8121 ± 20.7
Mean 3.32e-07 ± 7.09e-07
Sigma 0.0003398 ± 0.0000005
[V]


Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 28501
Mean 0.001263
RMS 0.001089
χ² / ndf 44.16 / 35
Prob 0.1378
p0 1.719e-05 ± 4.129e-06
MPV 0.002129 ± 0.000016
p2 0.9034 ± 0.0106
p3 0.0005831 ± 0.0000086
amplitude [V]

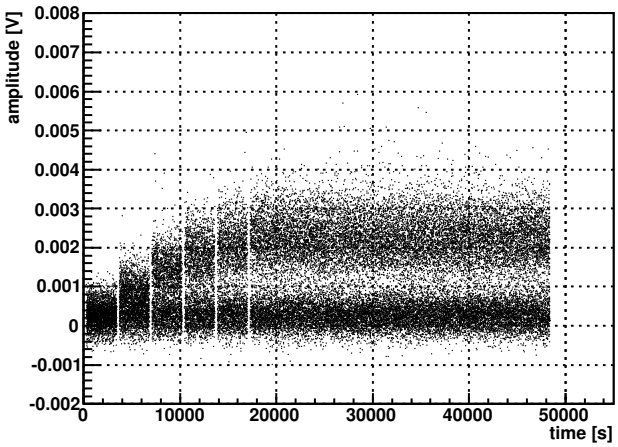

Noise, HV=-1000V
Noise, HV=-1000V
Entries 2308581
Mean 7.182e-08
RMS 0.0003412
χ² / ndf 868.6 / 154
Prob 0
Constant 8.111e+04 ± 65
Mean 2.57e-07 ± 2.24e-07
Sigma 0.0003405 ± 0.0000002
[V]

Average event

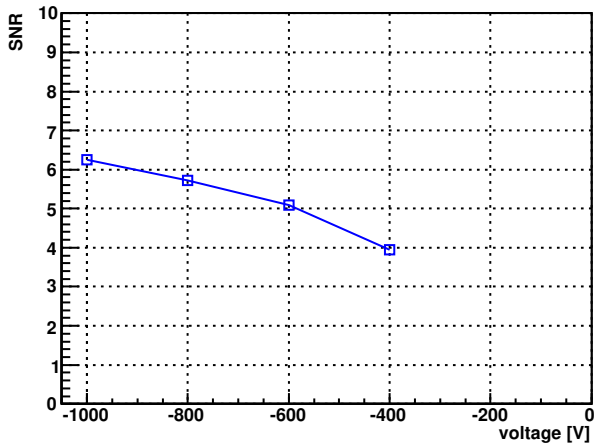




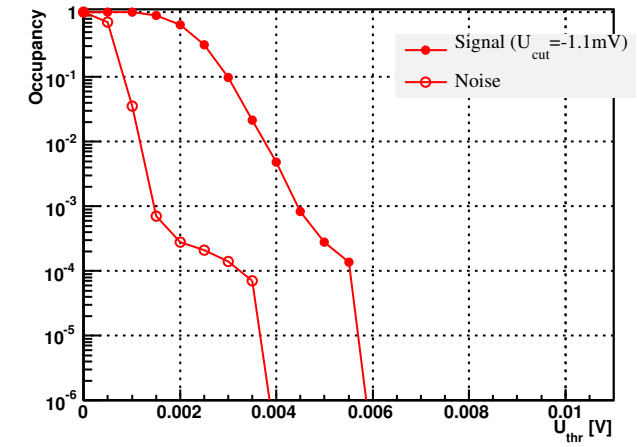
amplitudes



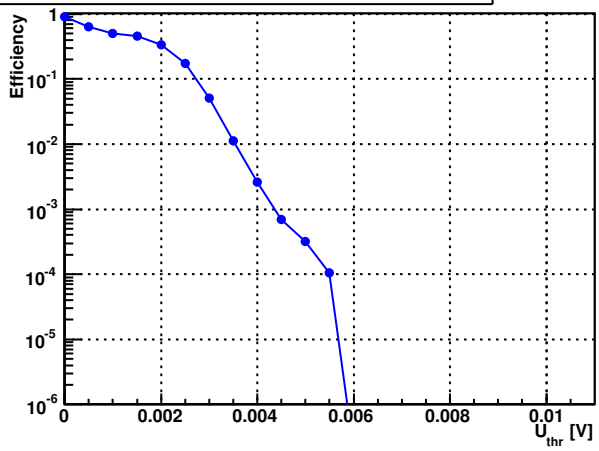
Signal to noise



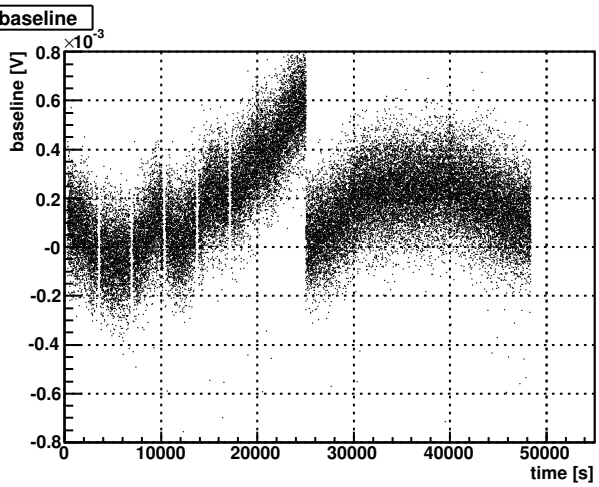
Occupancy vs Threshold, HV=-1000V



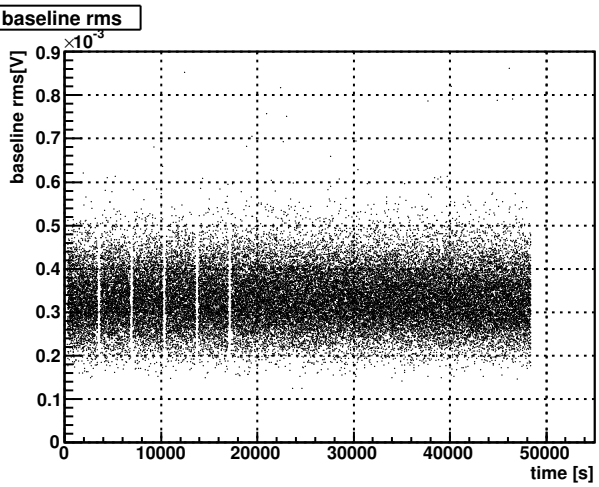
Efficiency vs Threshold, HV=1000V, U_{cut}=-1.1mV



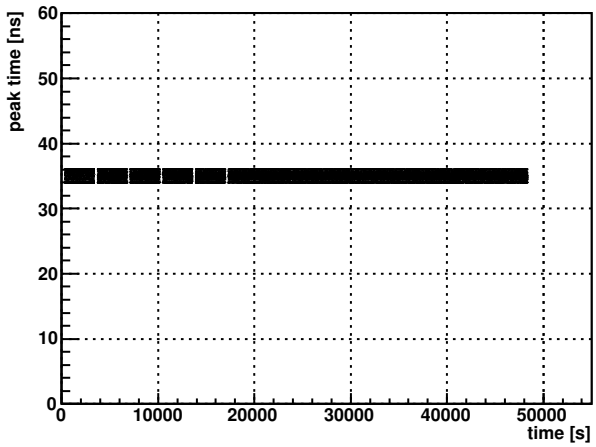
baseline



baseline rms



peak time



Data File = SP_060325061313_Fotec405_A422-4_A422-3_measurement3.xls
Upper Diamond = A422-4
Lower Diamond = A422-3
Maček ceramic Ass. #6