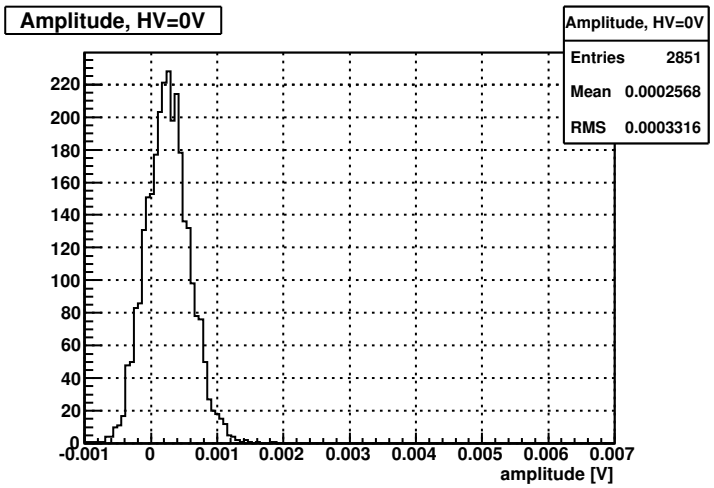
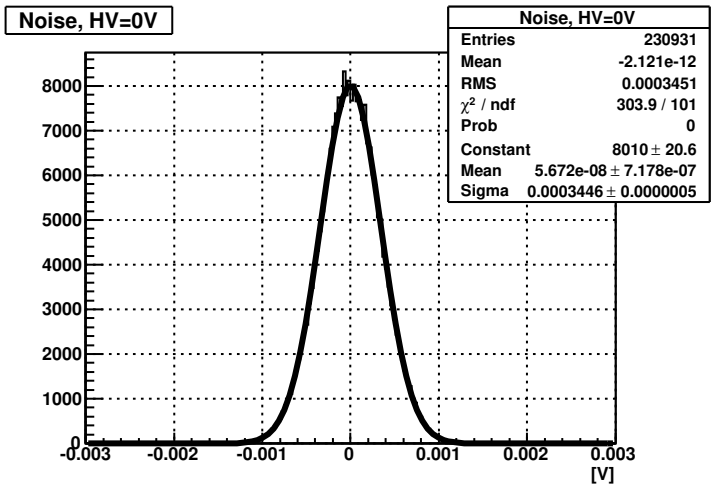
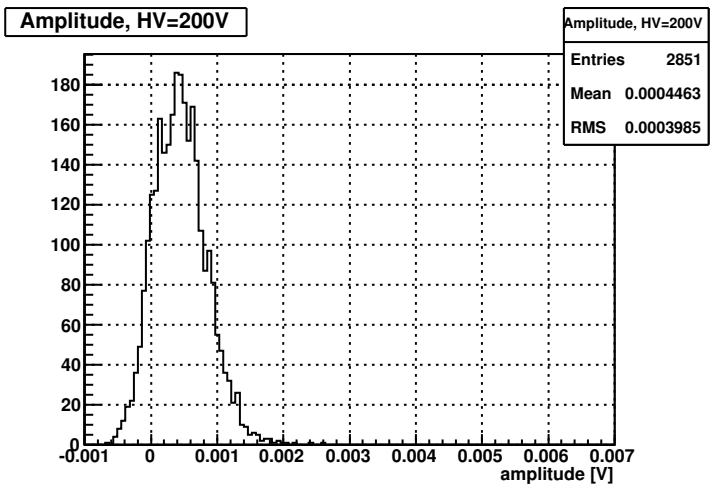
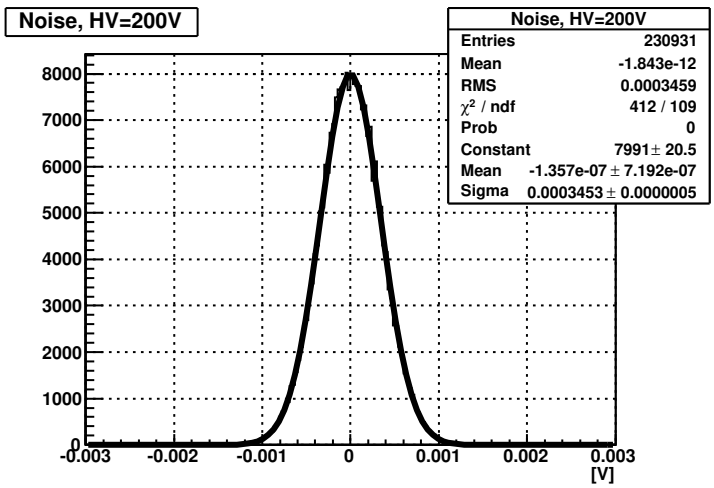
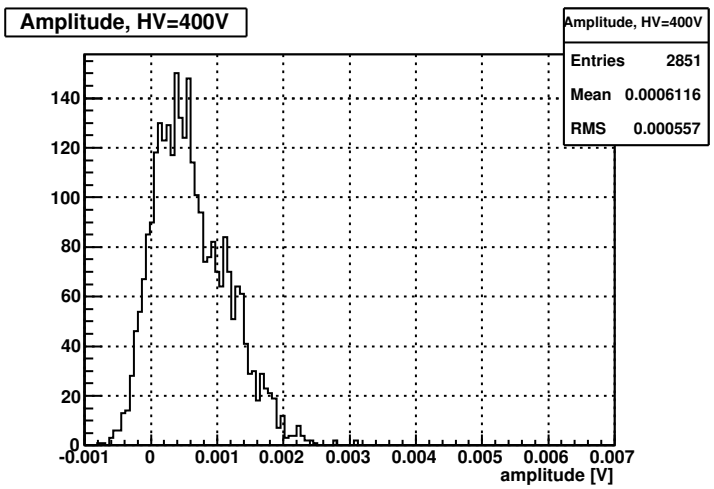
Fotec Box 408, (A382-11 and A382-8), Measurement 1 (BWL 200MHz)

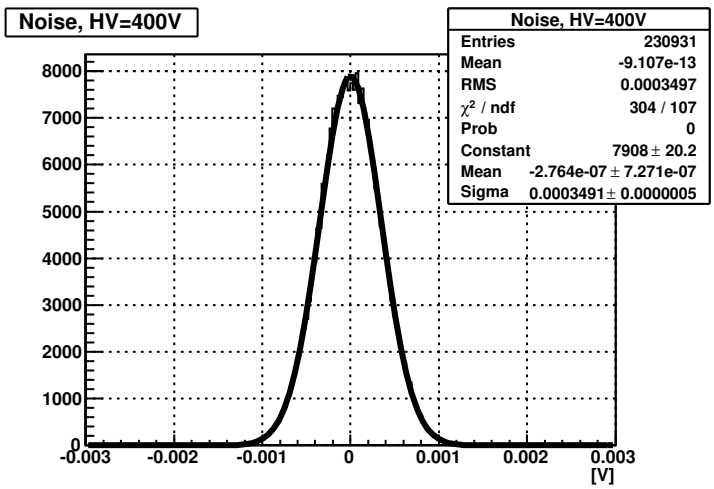


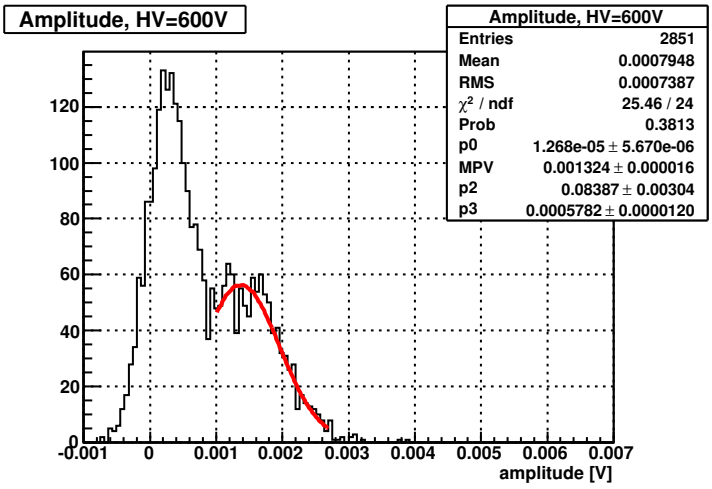


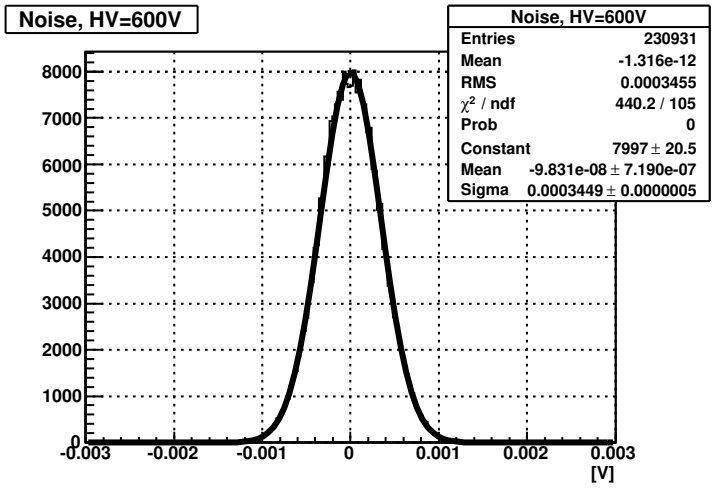


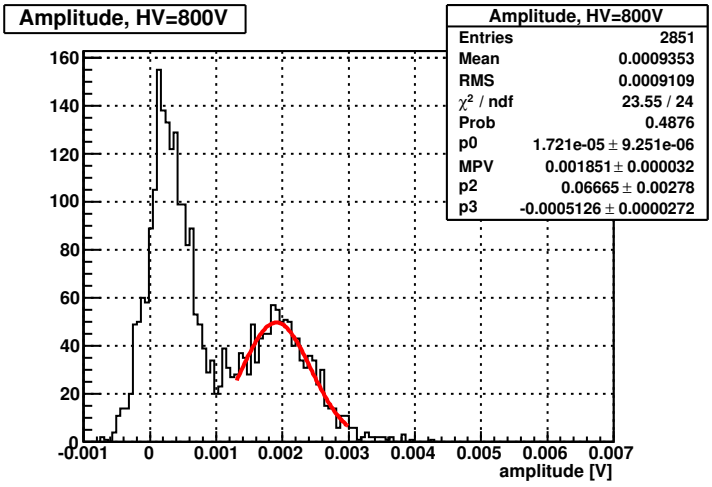


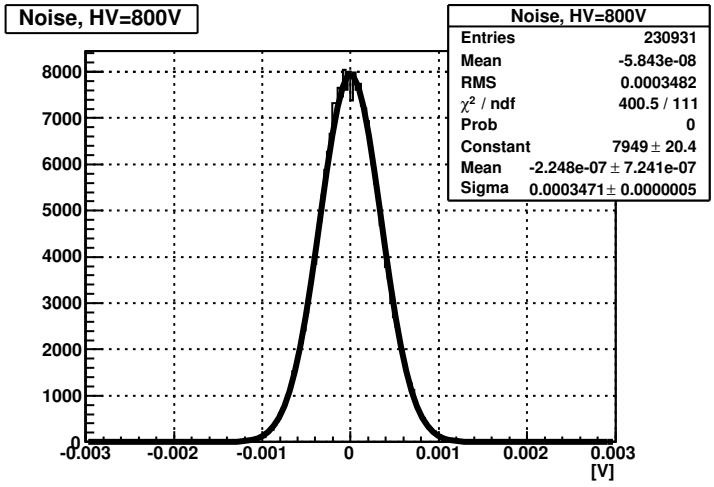


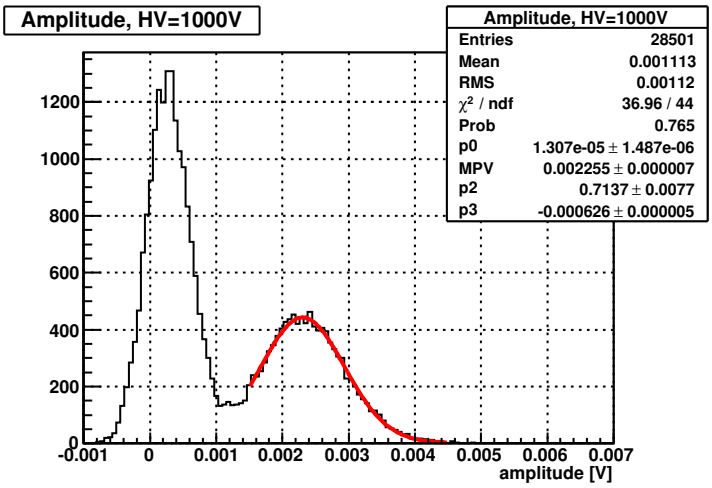


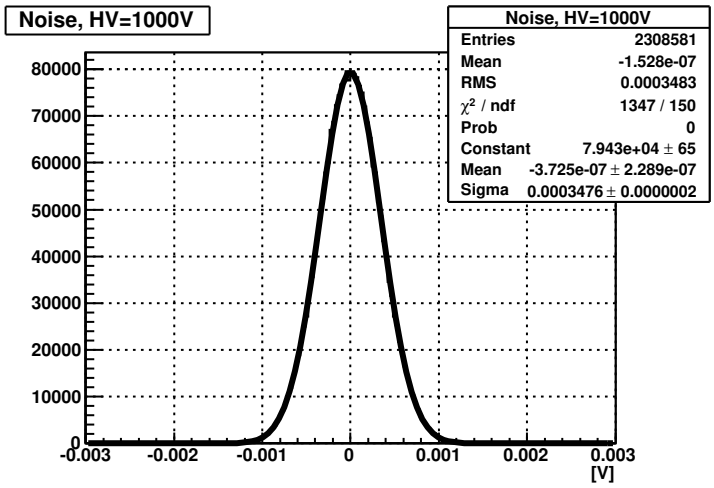

Amplitude, HV=600V
Amplitude, HV=600V
Entries 2851
Mean 0.0007948
RMS 0.0007387
χ² / ndf 25.46 / 24
Prob 0.3813
p0 1.268e-05 ± 5.670e-06
MPV 0.001324 ± 0.000016
p2 0.08387 ± 0.00304
p3 0.0005782 ± 0.0000120
amplitude [V]

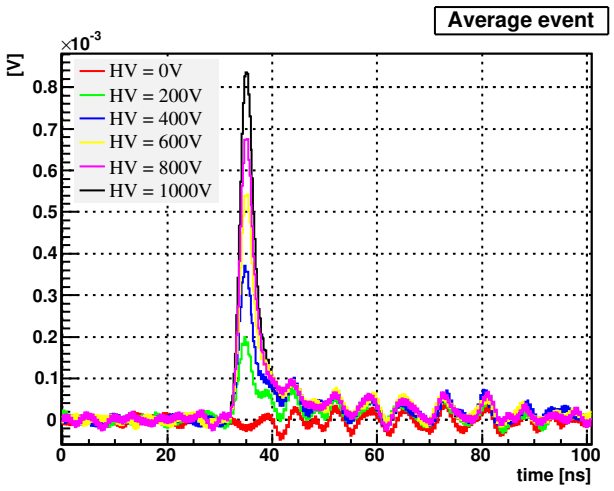

Noise, HV=600V
Noise, HV=600V
Entries 230931
Mean -1.316e-12
RMS 0.0003455
χ² / ndf 440.2 / 105
Prob 0
Constant 7997 ± 20.5
Mean -9.831e-08 ± 7.190e-07
Sigma 0.0003449 ± 0.0000005
[V]

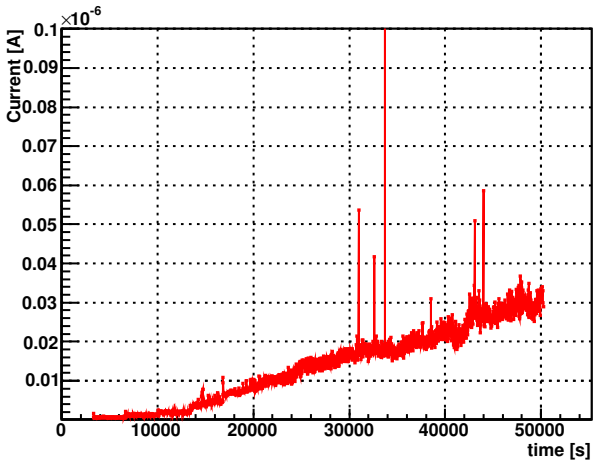

Amplitude, HV=800V
Amplitude, HV=800V
Entries 2851
Mean 0.0009353
RMS 0.0009109
χ² / ndf 23.55 / 24
Prob 0.4876
p0 1.721e-05 ± 9.251e-06
MPV 0.001851 ± 0.000032
p2 0.06665 ± 0.00278
p3 -0.0005126 ± 0.0000272
amplitude [V]

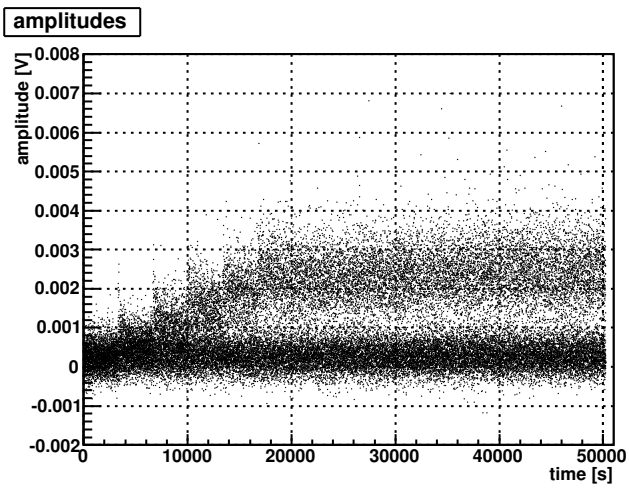

Noise, HV=800V
Noise, HV=800V
Entries 230931
Mean -5.843e-08
RMS 0.0003482
χ² / ndf 400.5 / 111
Prob 0
Constant 7949 ± 20.4
Mean -2.248e-07 ± 7.241e-07
Sigma 0.0003471 ± 0.0000005
[V]

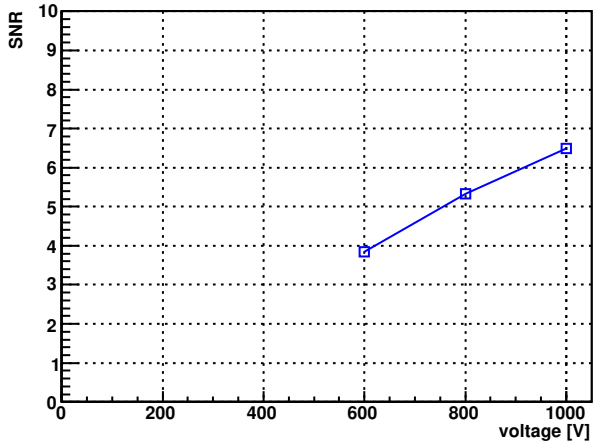

Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 28501
Mean 0.001113
RMS 0.00112
χ² / ndf 36.96 / 44
Prob 0.765
p0 1.307e-05 ± 1.487e-06
MPV 0.002255 ± 0.000007
p2 0.7137 ± 0.0077
p3 -0.000626 ± 0.000005
amplitude [V]

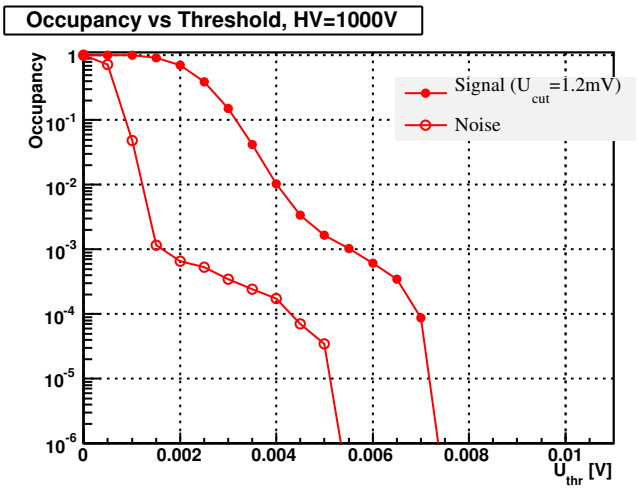

Noise, HV=1000V
Noise, HV=1000V
Entries 2308581
Mean -1.528e-07
RMS 0.0003483
χ² / ndf 1347 / 150
Prob 0
Constant 7.943e+04 ± 65
Mean -3.725e-07 ± 2.289e-07
Sigma 0.0003476 ± 0.0000002
[V]

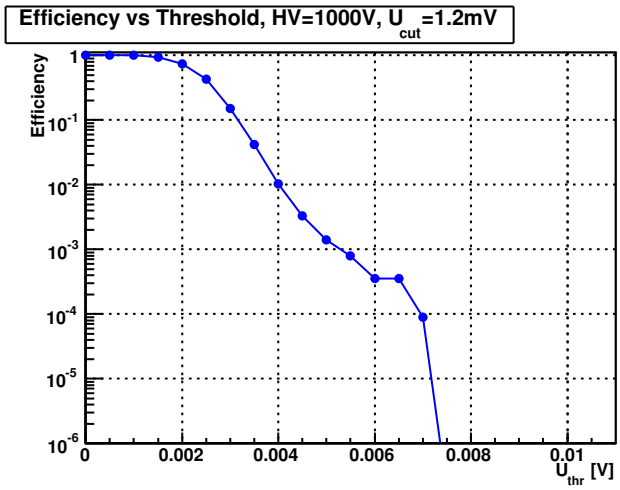

Average event
×10^-3
[V]
HV = 0V
HV = 200V
HV = 400V
HV = 600V
HV = 800V
HV = 1000V
time [ns]


×10^-6
Current [A]
time [s]

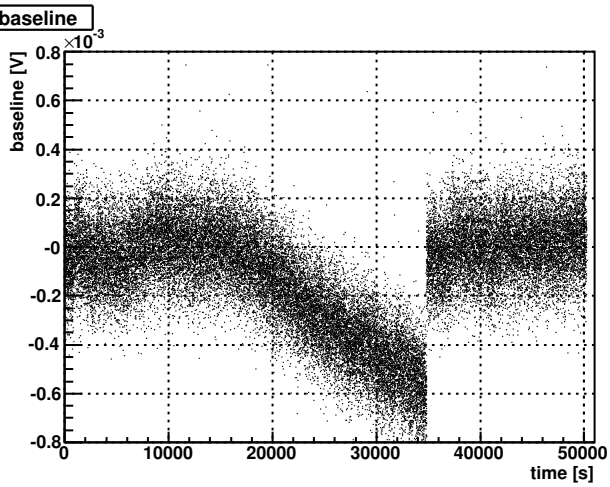

amplitudes
amplitude [V]
time [s]


Signal to noise
SNR
voltage [V]

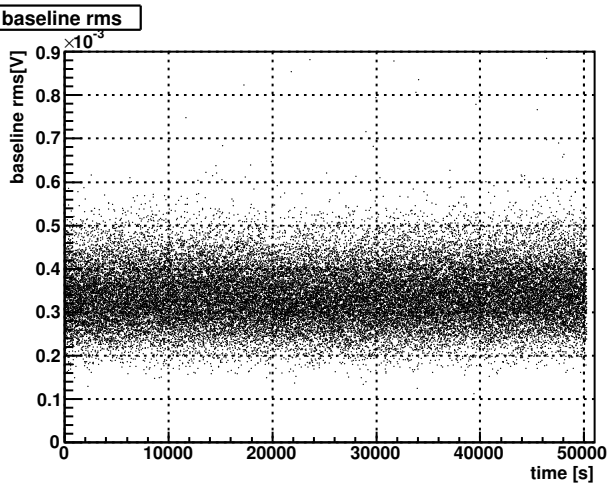

Occupancy vs Threshold, HV=1000V
Occupancy
Signal (U_cut=1.2mV)
Noise
U_thr [V]


Efficiency vs Threshold, HV=1000V, U_cut=1.2mV
Efficiency
U_thr [V]

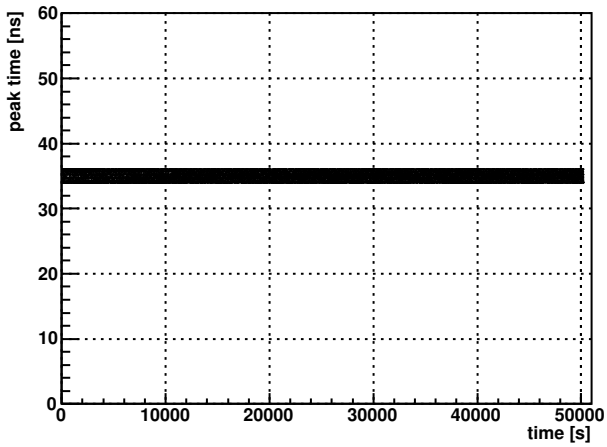
baseline



baseline rms



peak time



Data File = SP_060317162051_Fotec408_A382-11_A382-8_Measurement1.xls
Upper Diamond = A382-11
Lower Diamond = A382-8
Maček ceramic Ass. #1