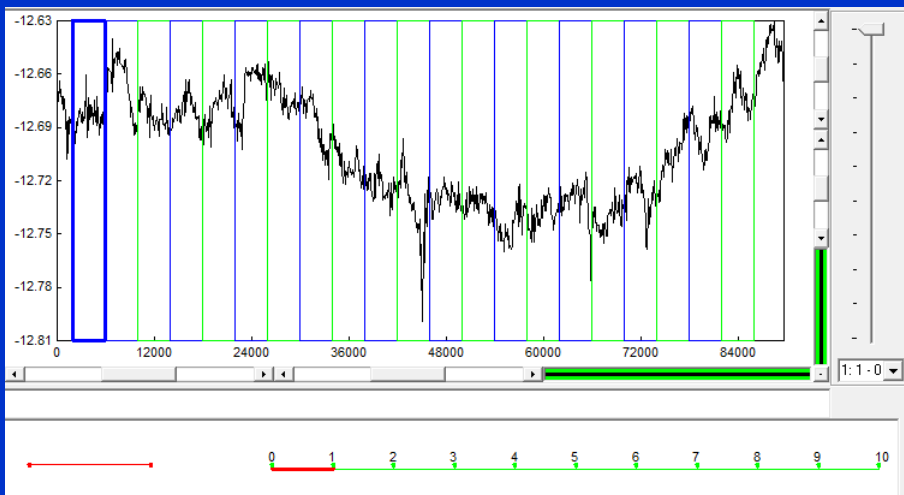
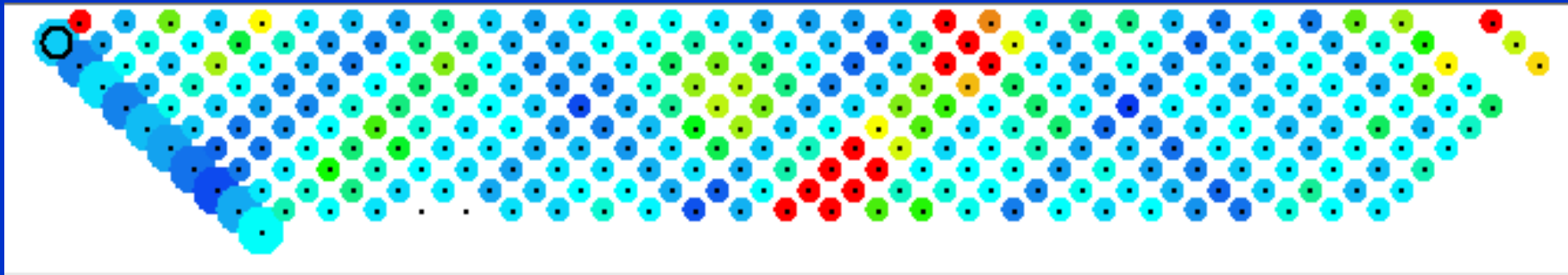


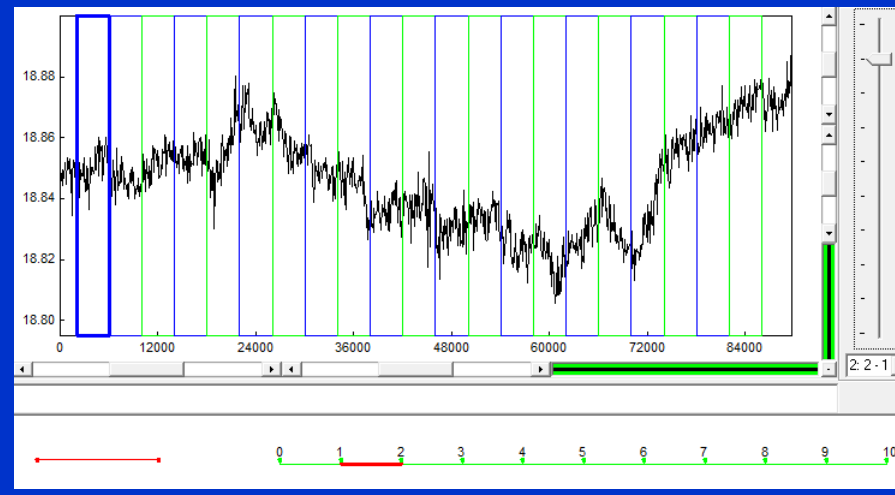
IP Data processing

From time series to decays

Noise readings: Tx:1900, N=2,3

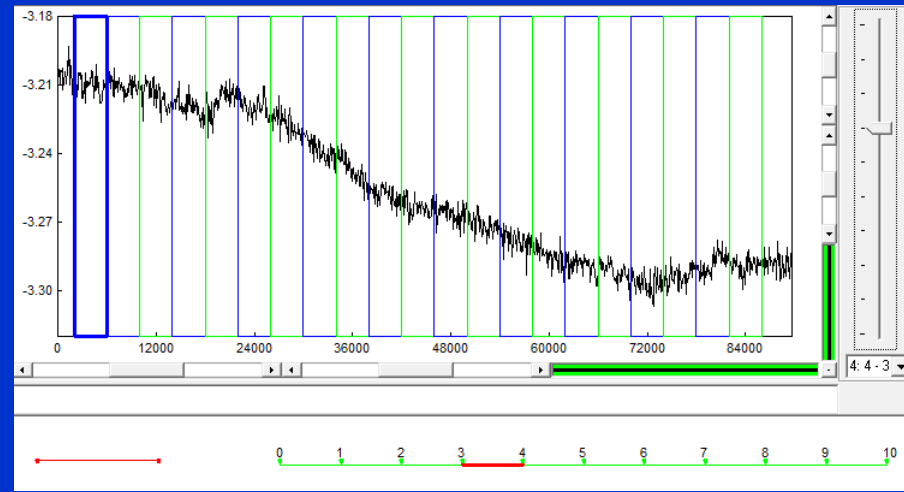
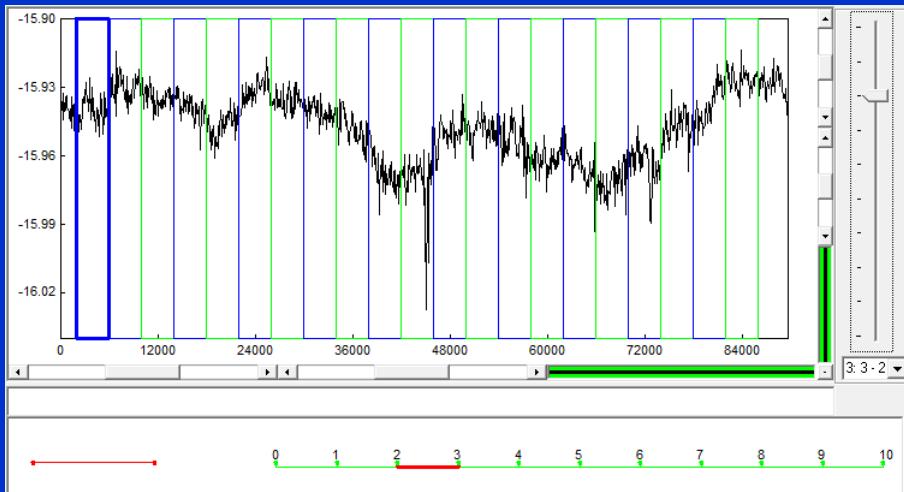


0.1 mV



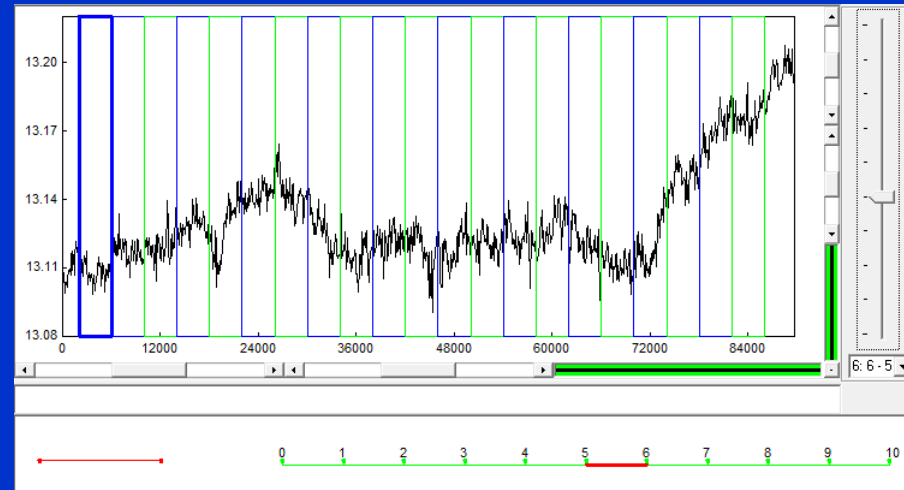
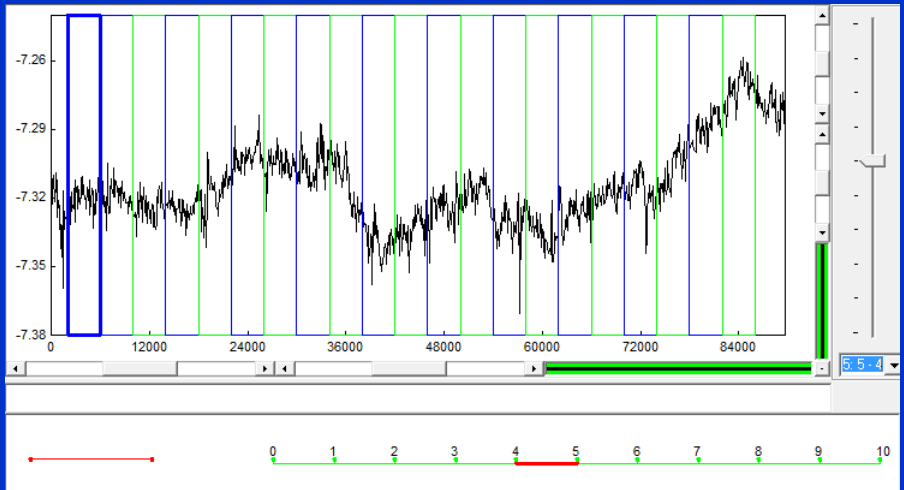
0.06 mV

Noise readings: Tx:1900, N=4,5,6,7



0.06 mV

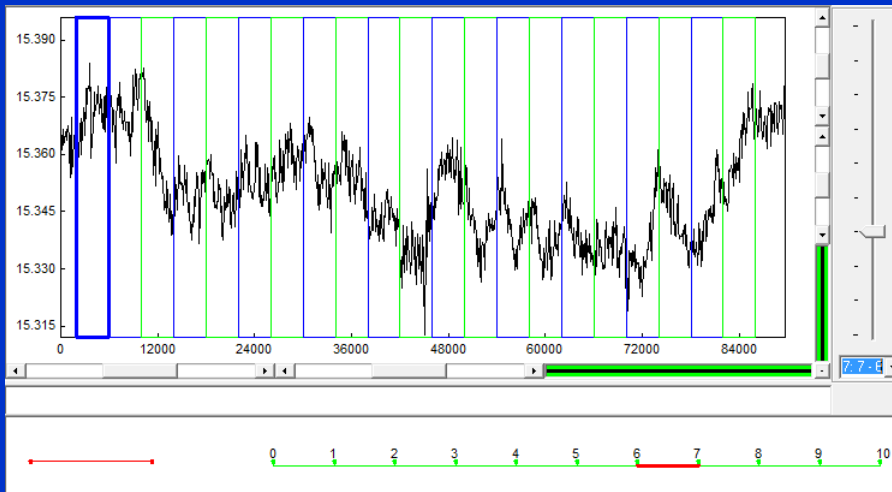
0.1 mV



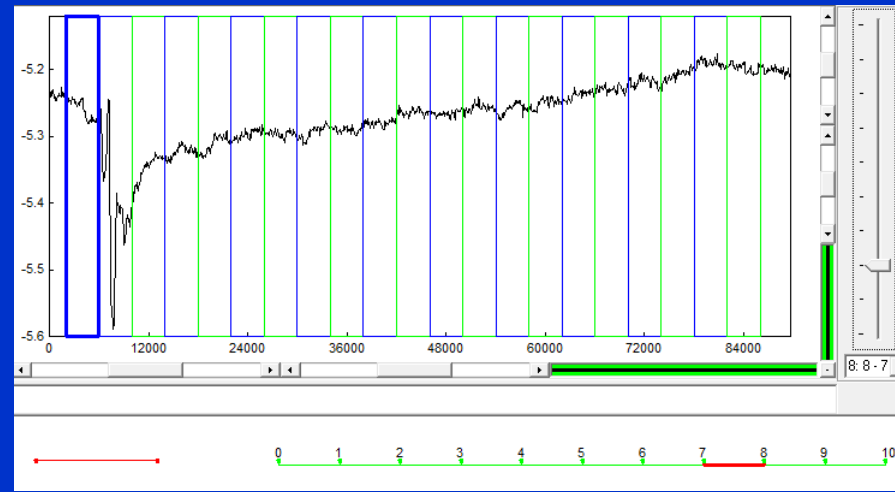
0.09 mV

0.09 mV

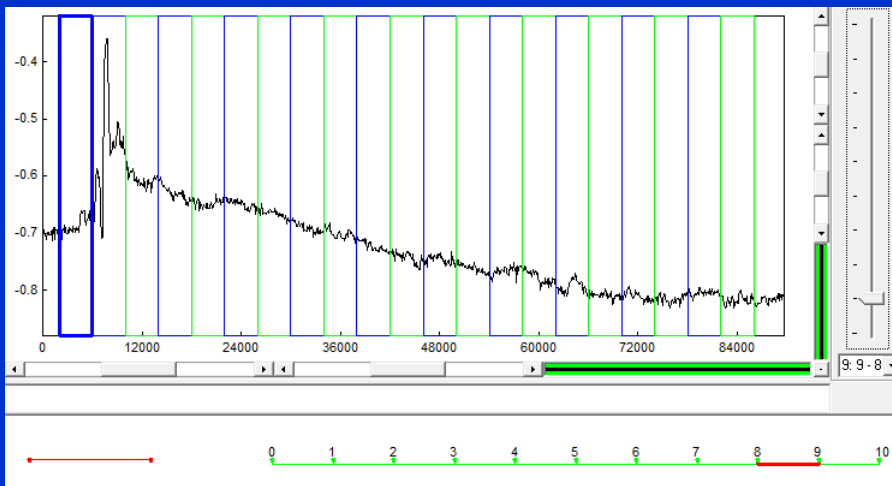
Noise readings: Tx:1900, N=8,9,10,11



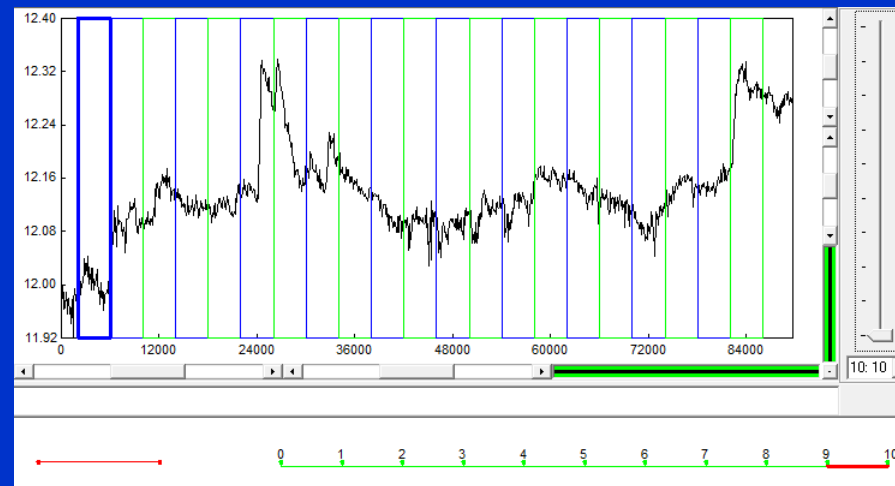
0.05 mV



0.4 mV

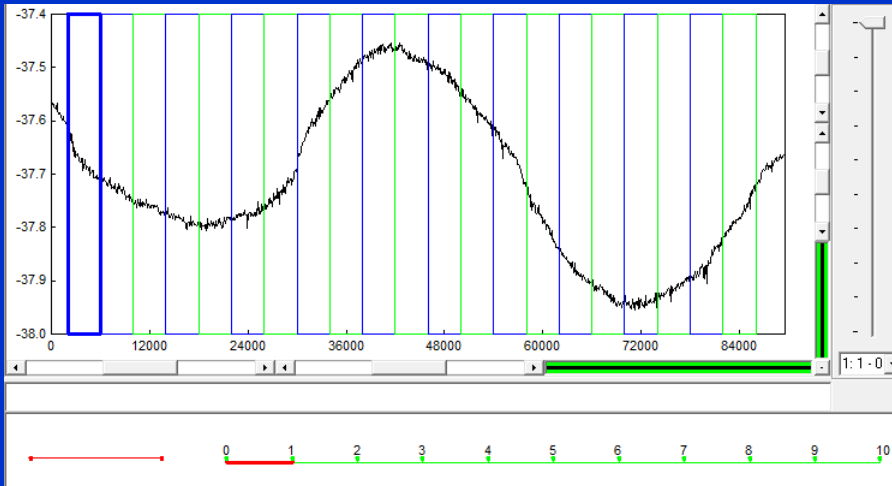


0.4 mV

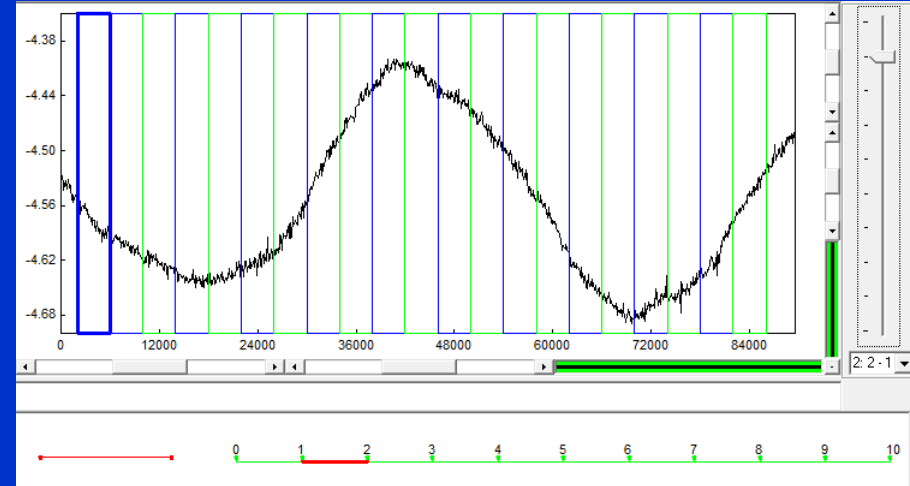


0.36 mV

Noise readings: Tx:2550, N=1,2

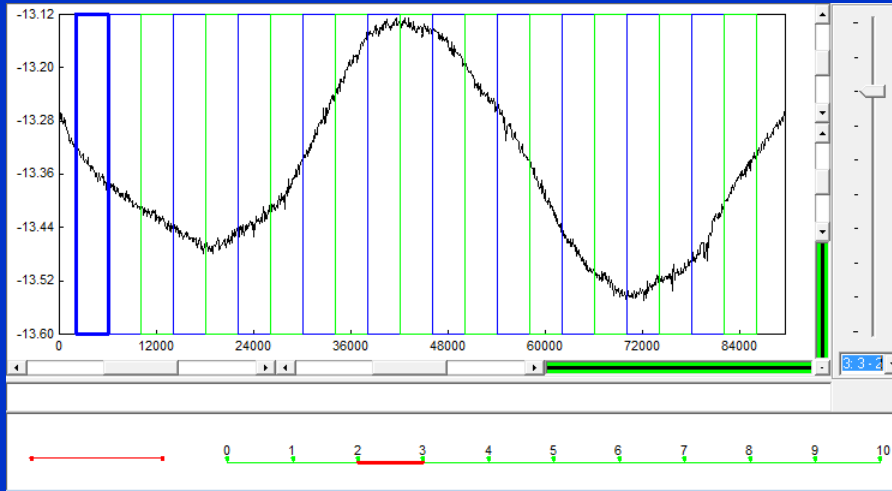


0.5 mV

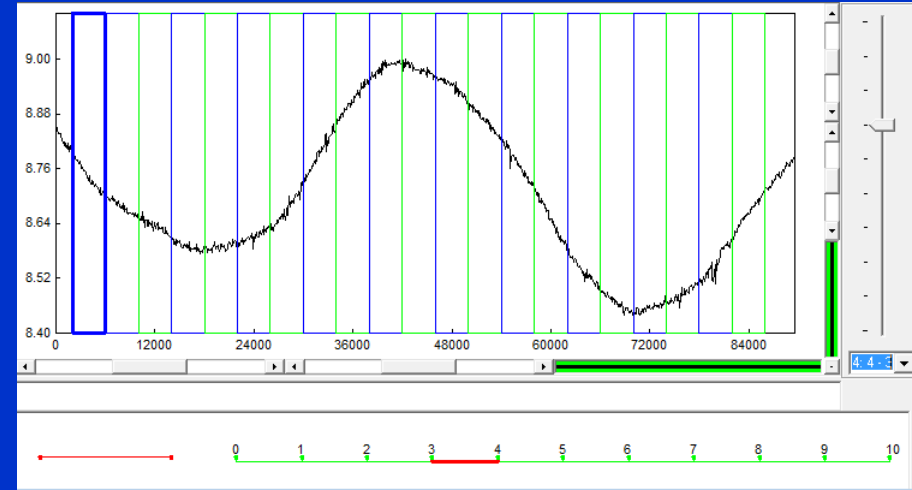


0.3 mV

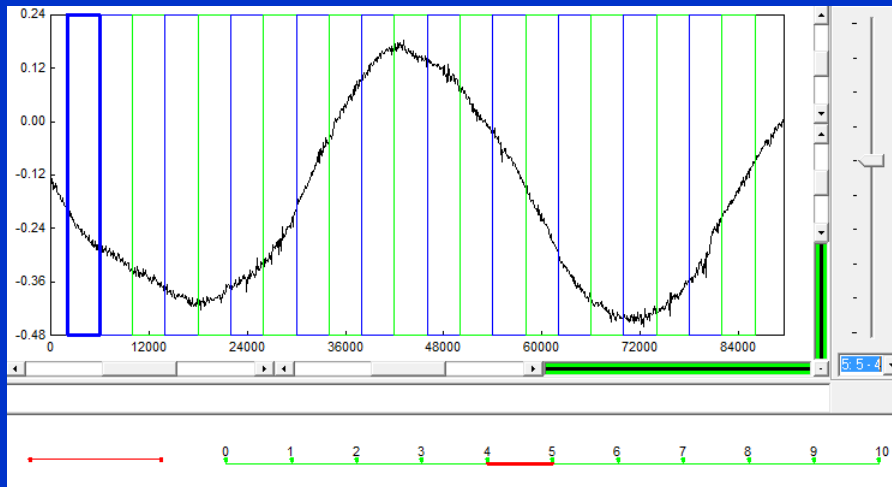
Noise readings: Tx:2550, N=3,4,5,6



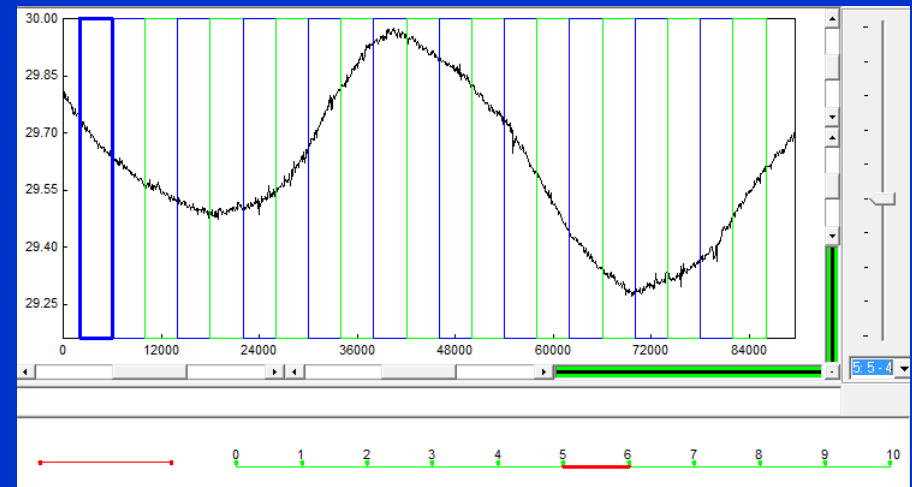
0.42 mV



0.56 mV

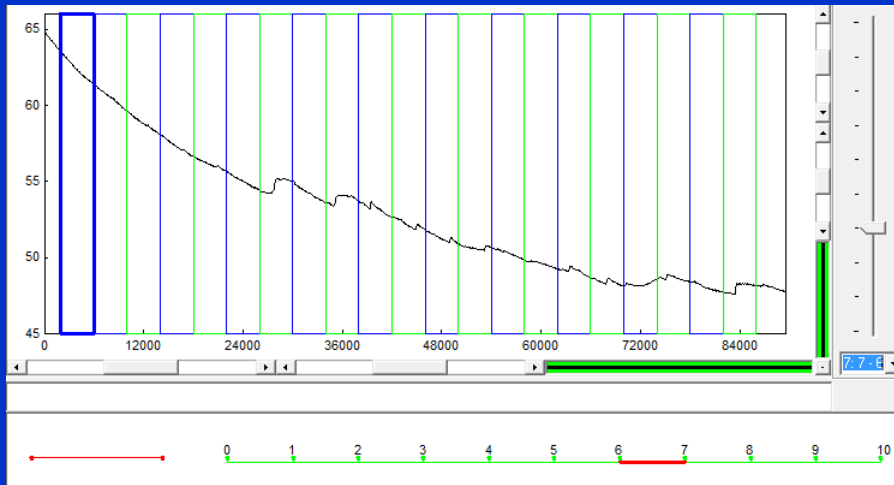


0.64mV

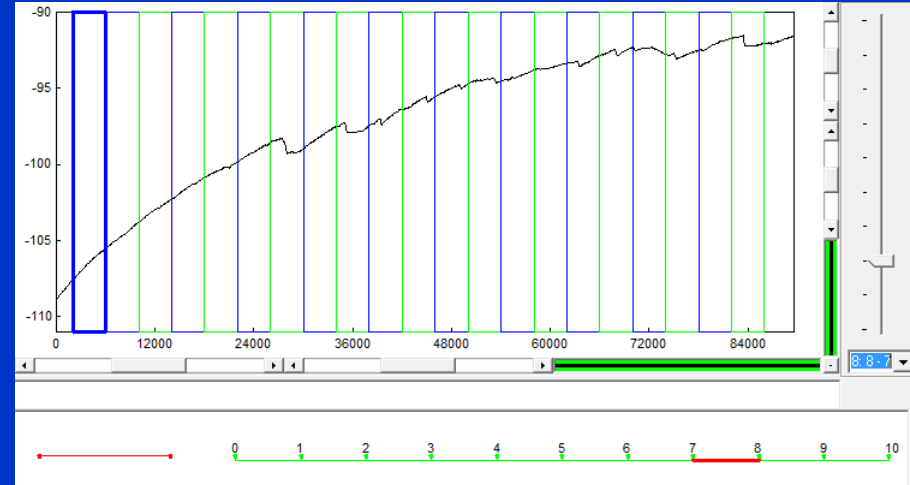


0.71 mV

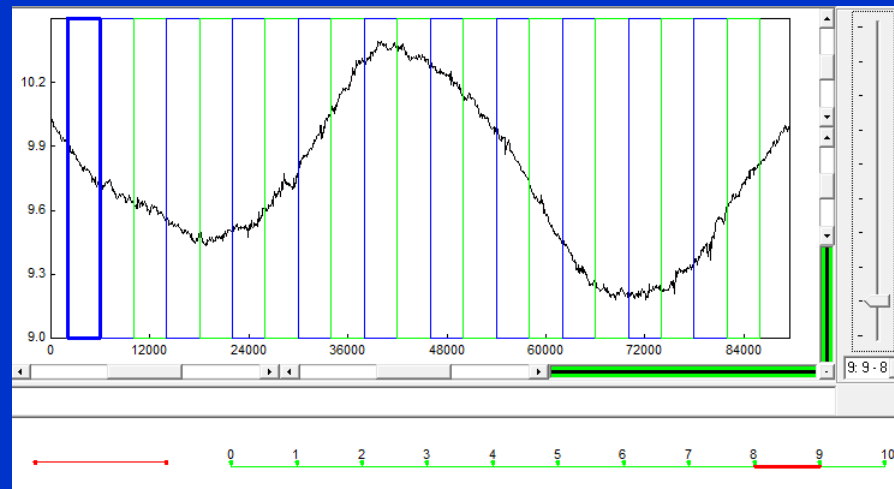
Noise readings: Tx:2550, N=7,8,9,10



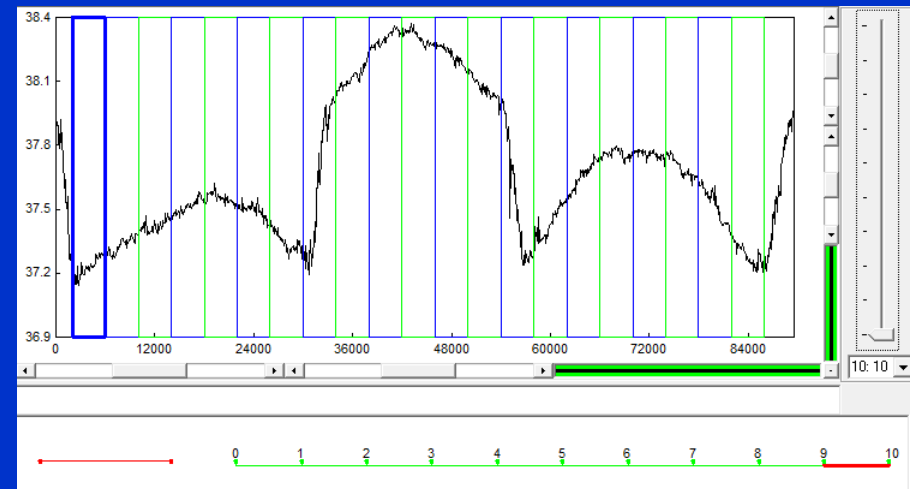
16.95 mV



17.0 mV

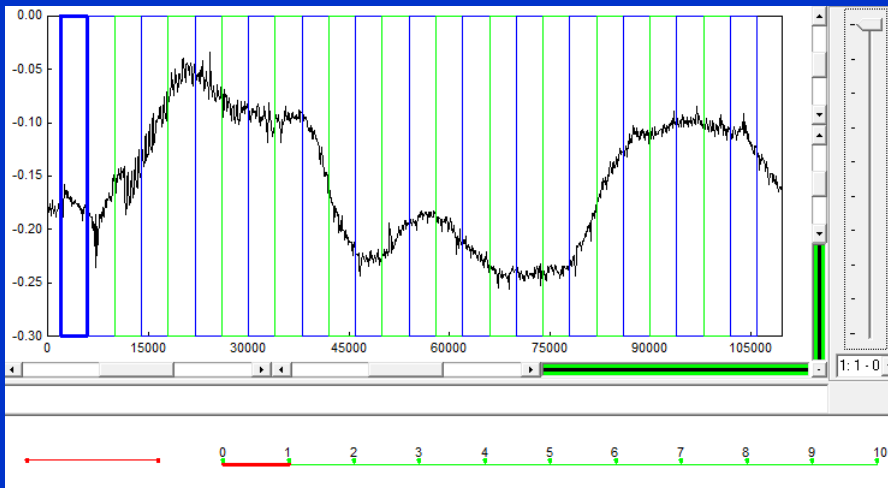


1.21 mV

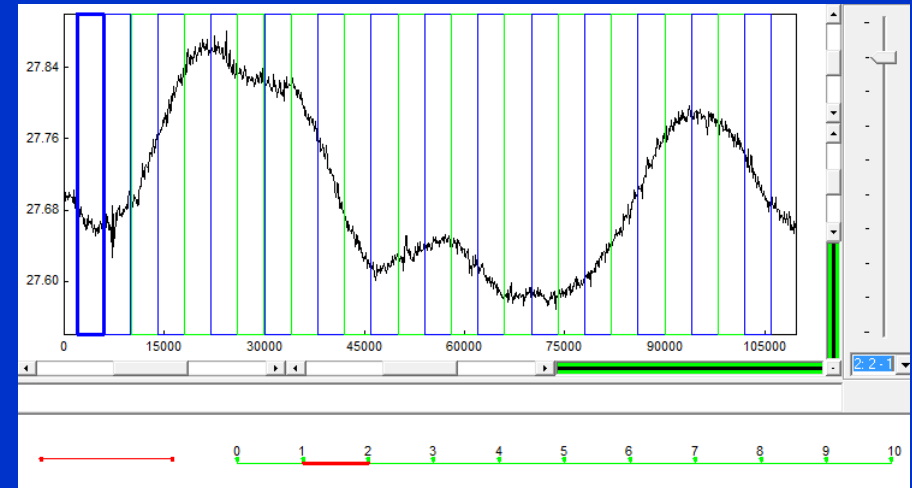


1.24 mV

Noise readings: Tx:2750, N=1,2



0.22 mV

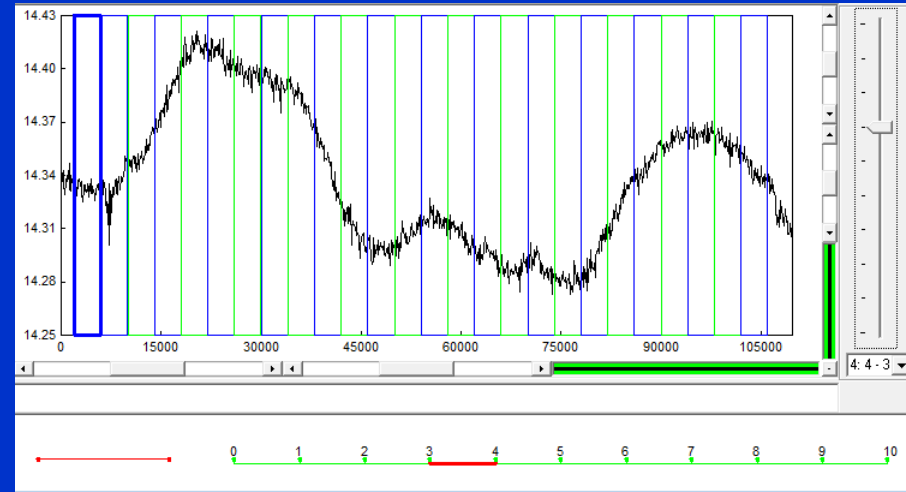


0.31 mV

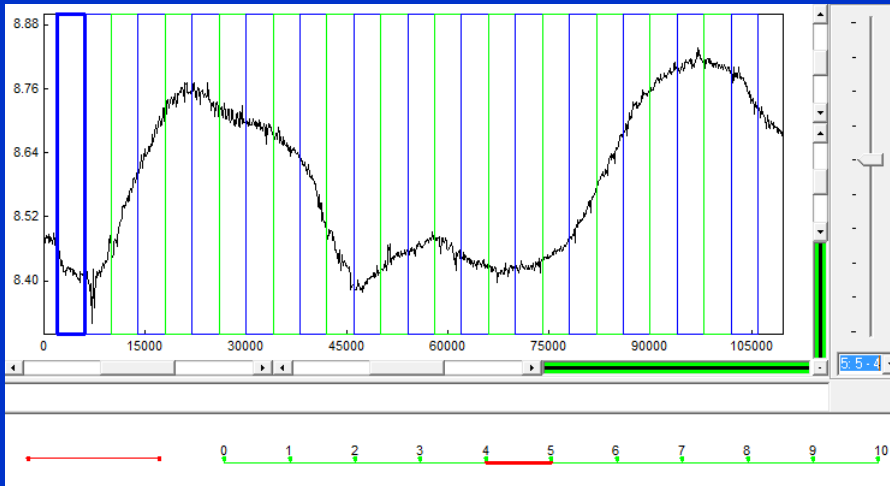
Noise readings: Tx:2750, N=3,4,5,6



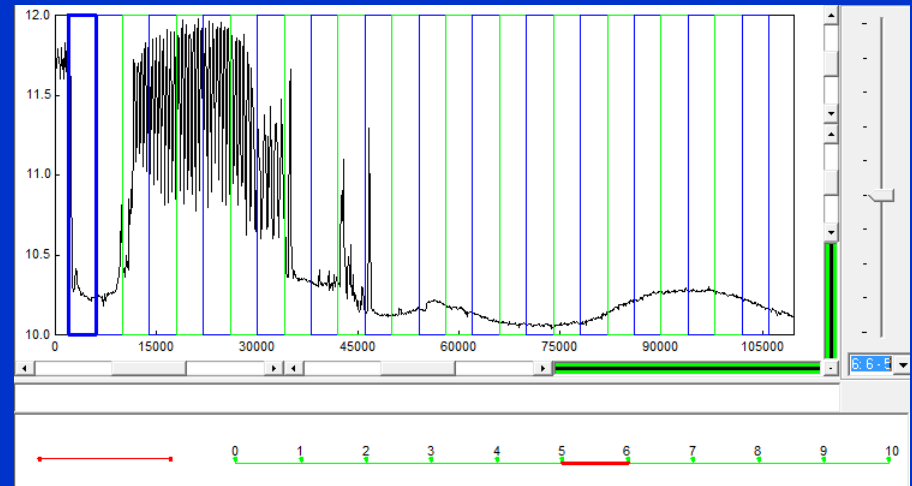
0.09 mV



0.15 mV

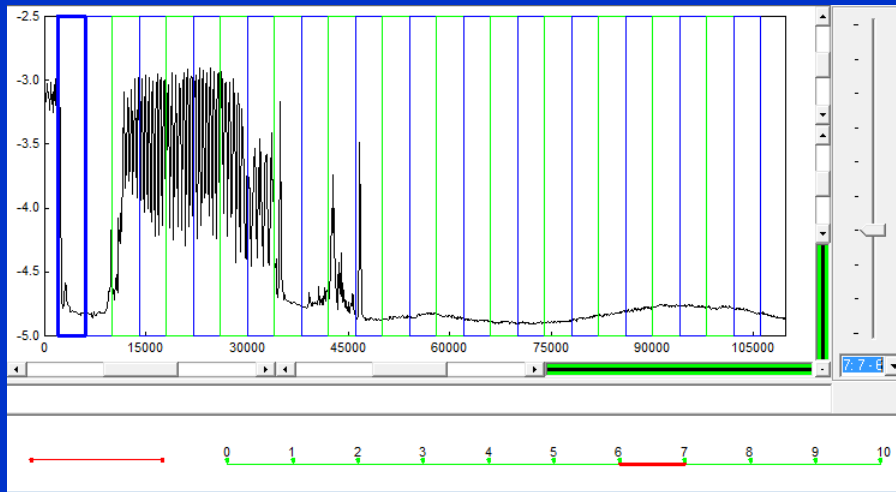


0.52mV

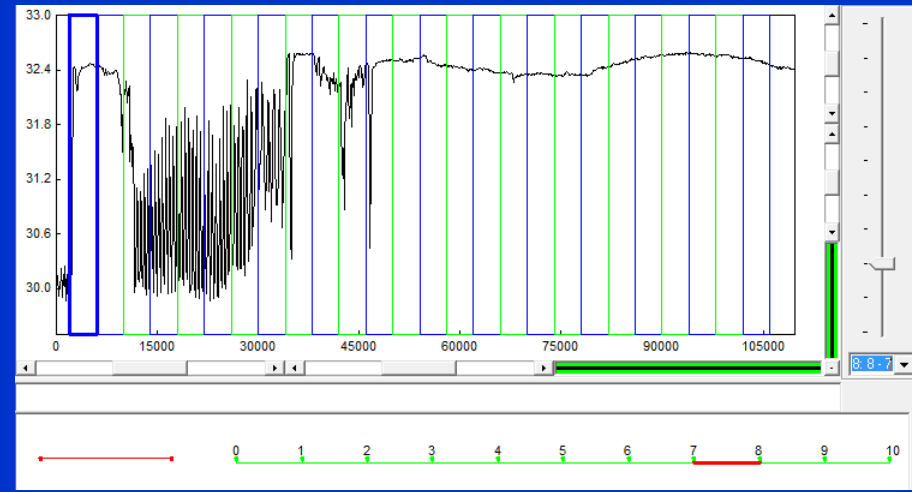


1.94 mV

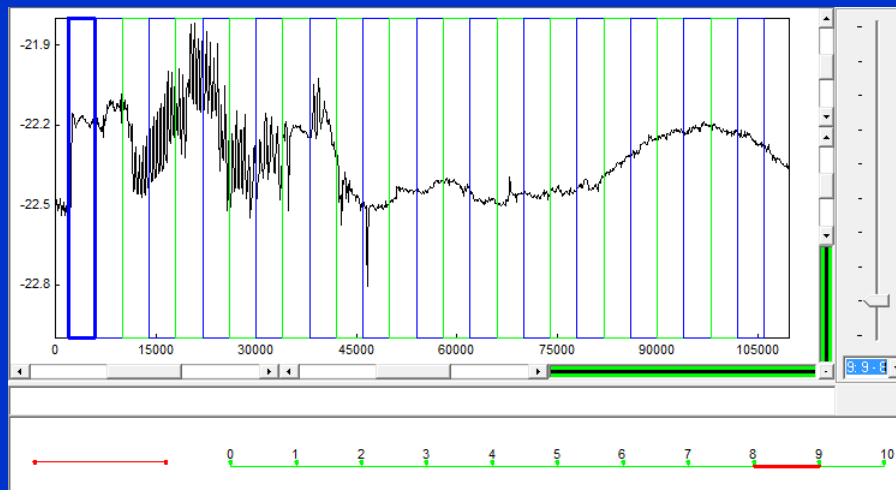
Noise readings: Tx:2750, N=7,8,9,10



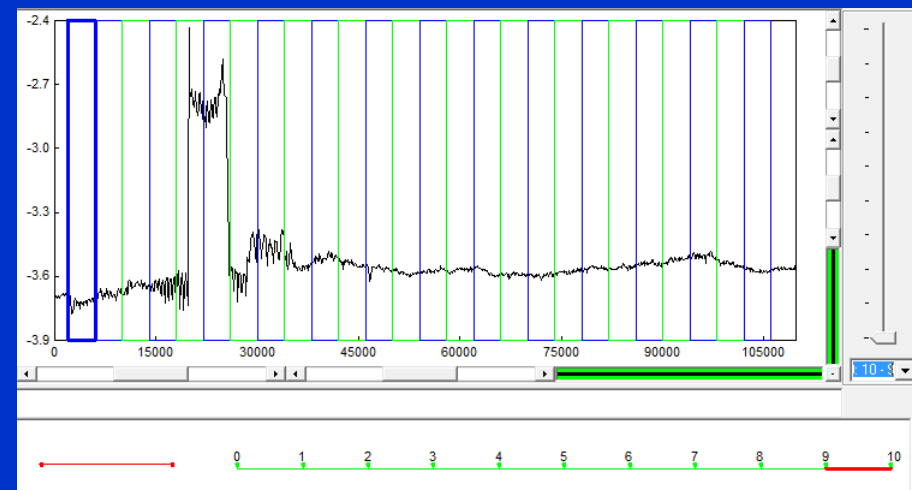
2.0 mV



2.73 mV

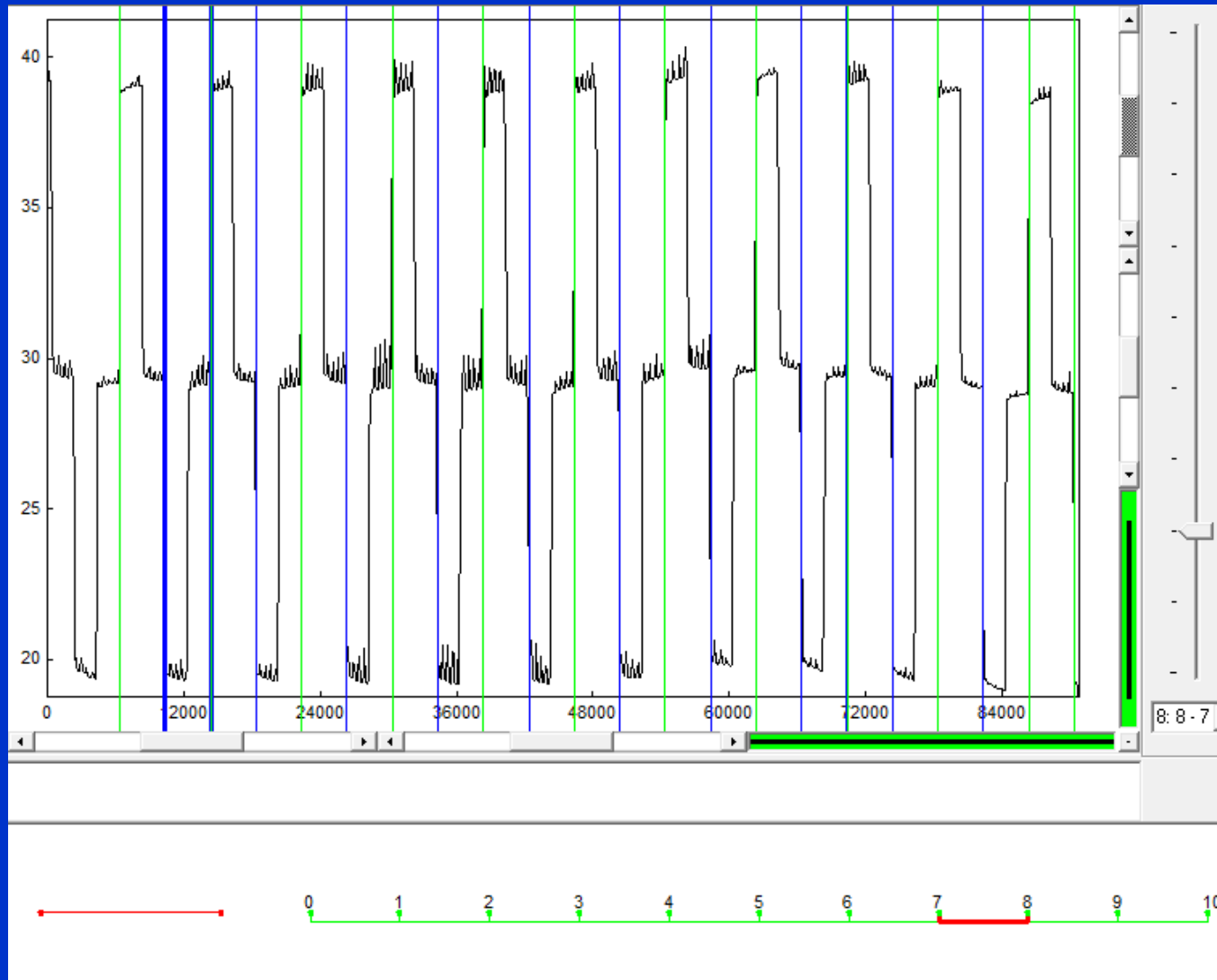


1.0 mV

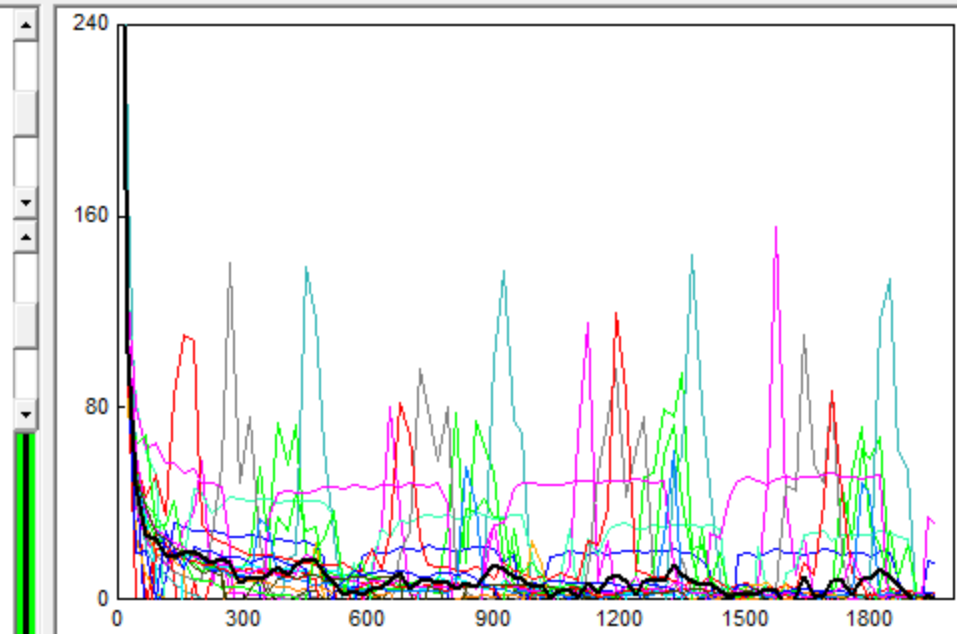
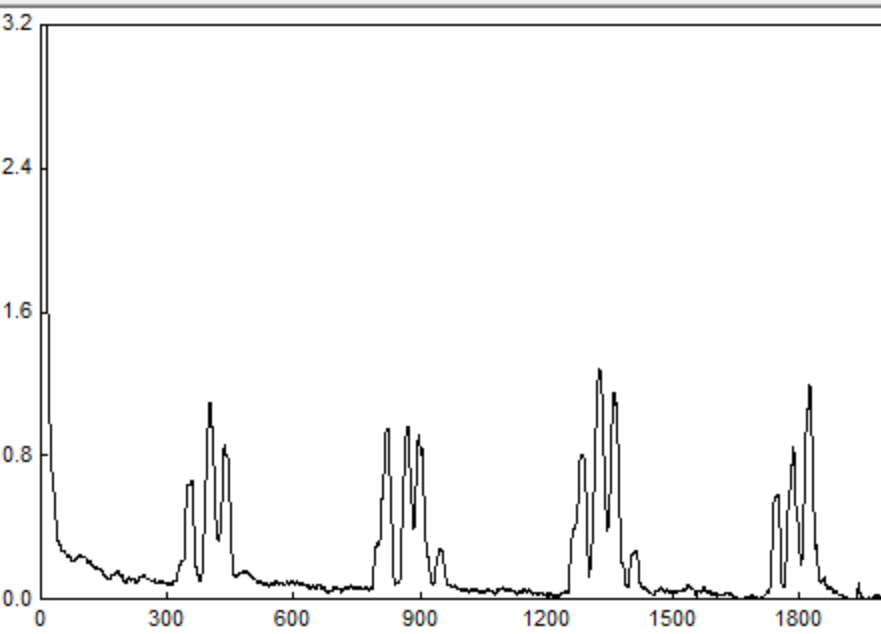
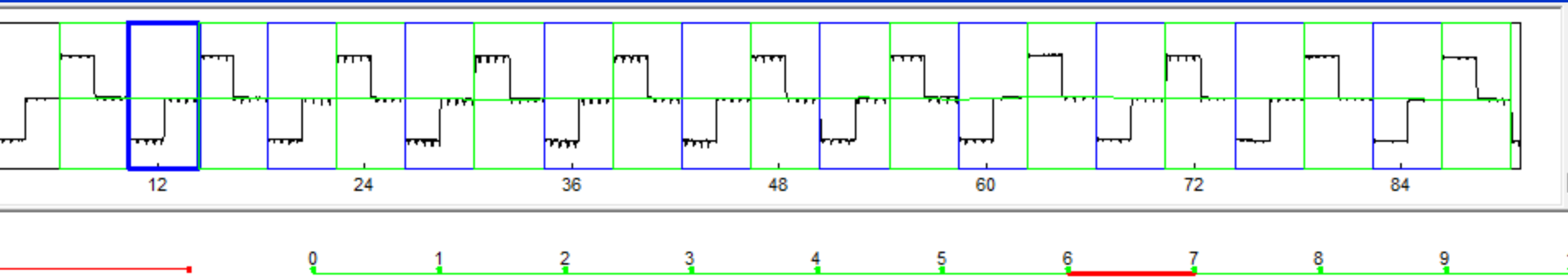


1.34 mV

Noise readings: Drill rig

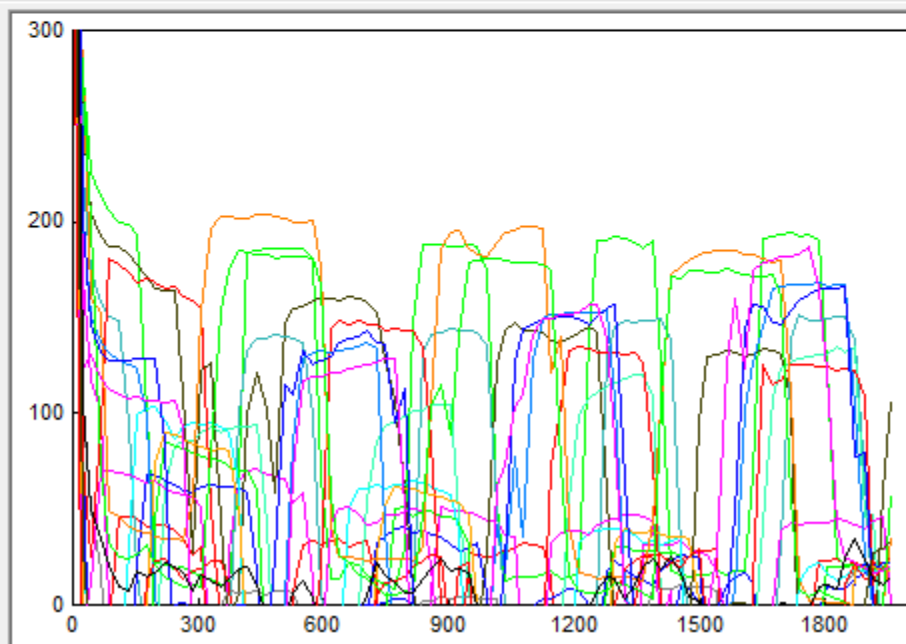
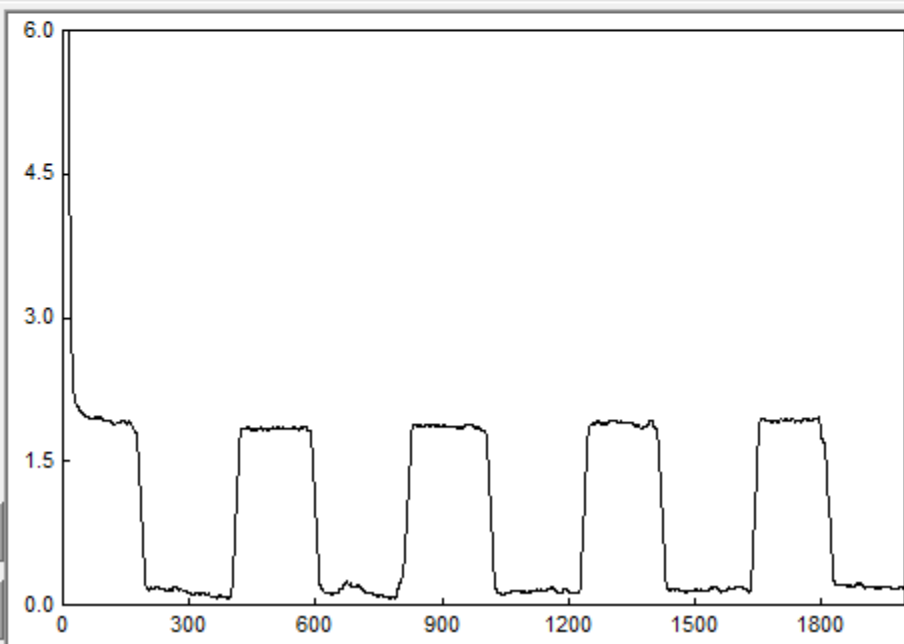
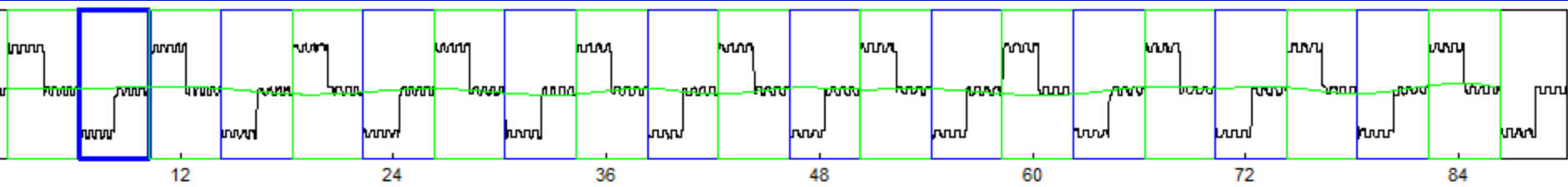


Noise reading: Drill rig starting



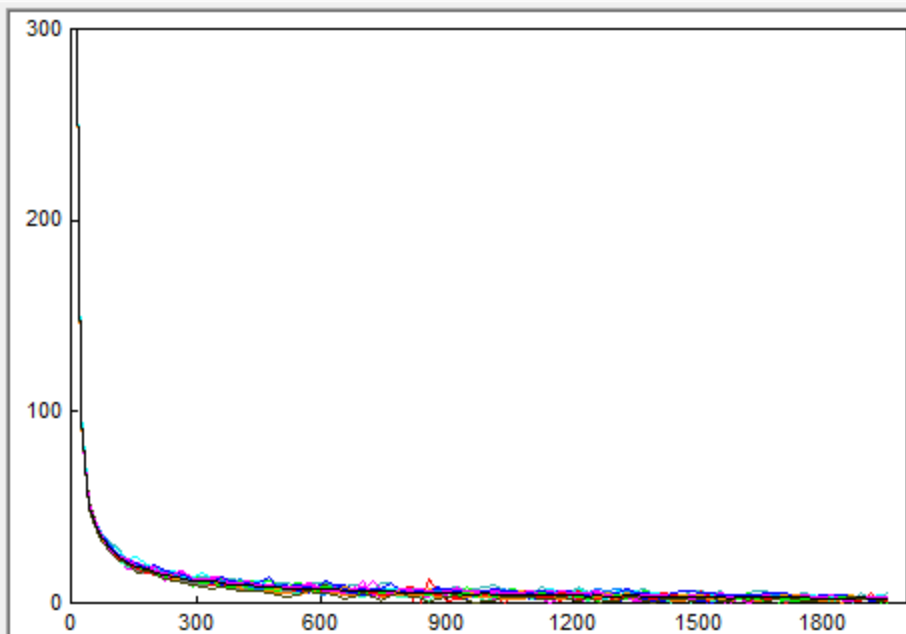
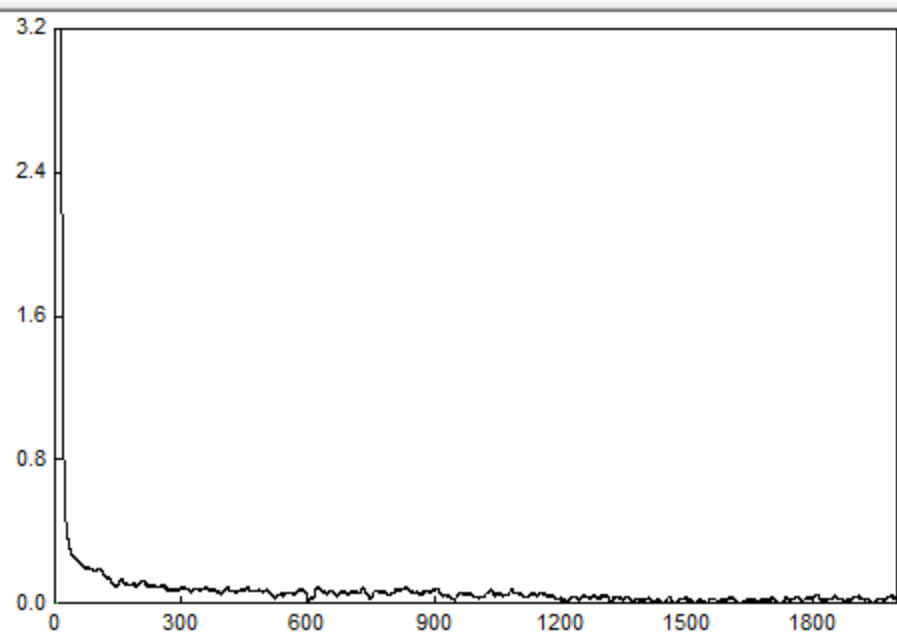
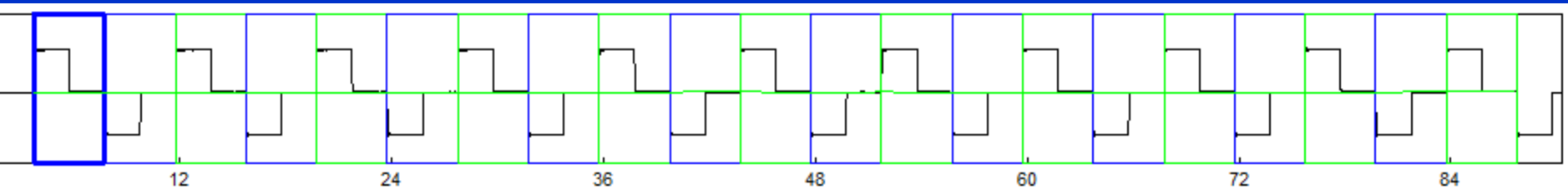
Standard Search processing: Vp: 10.04 Mx: 6.8 SD: 12.43

Noise reading: Drill rig running



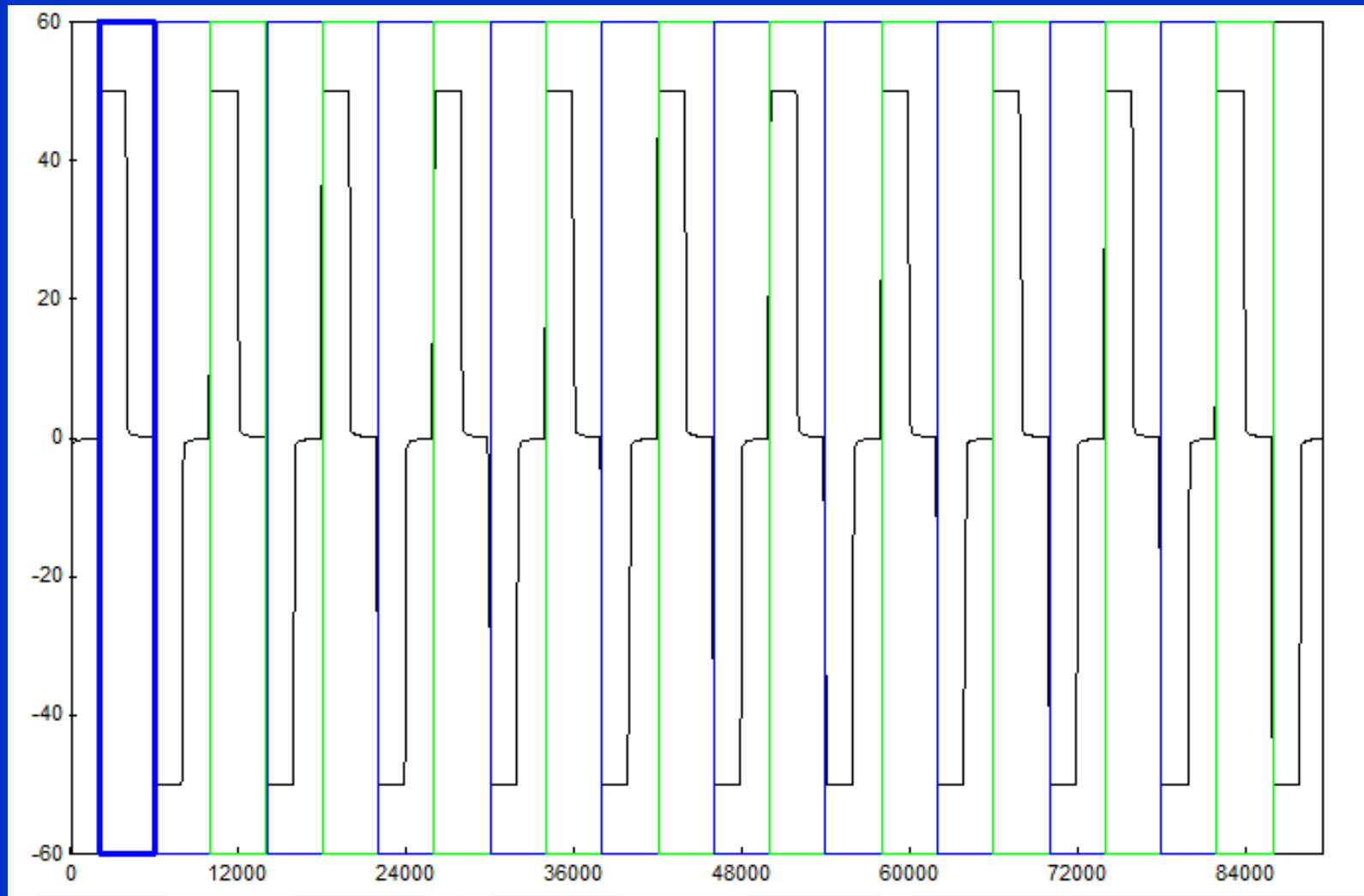
Standard Search processing: Vp: 9.99 Mx: 2.6 SD: 69.04

Noise reading: Drill rig stopped



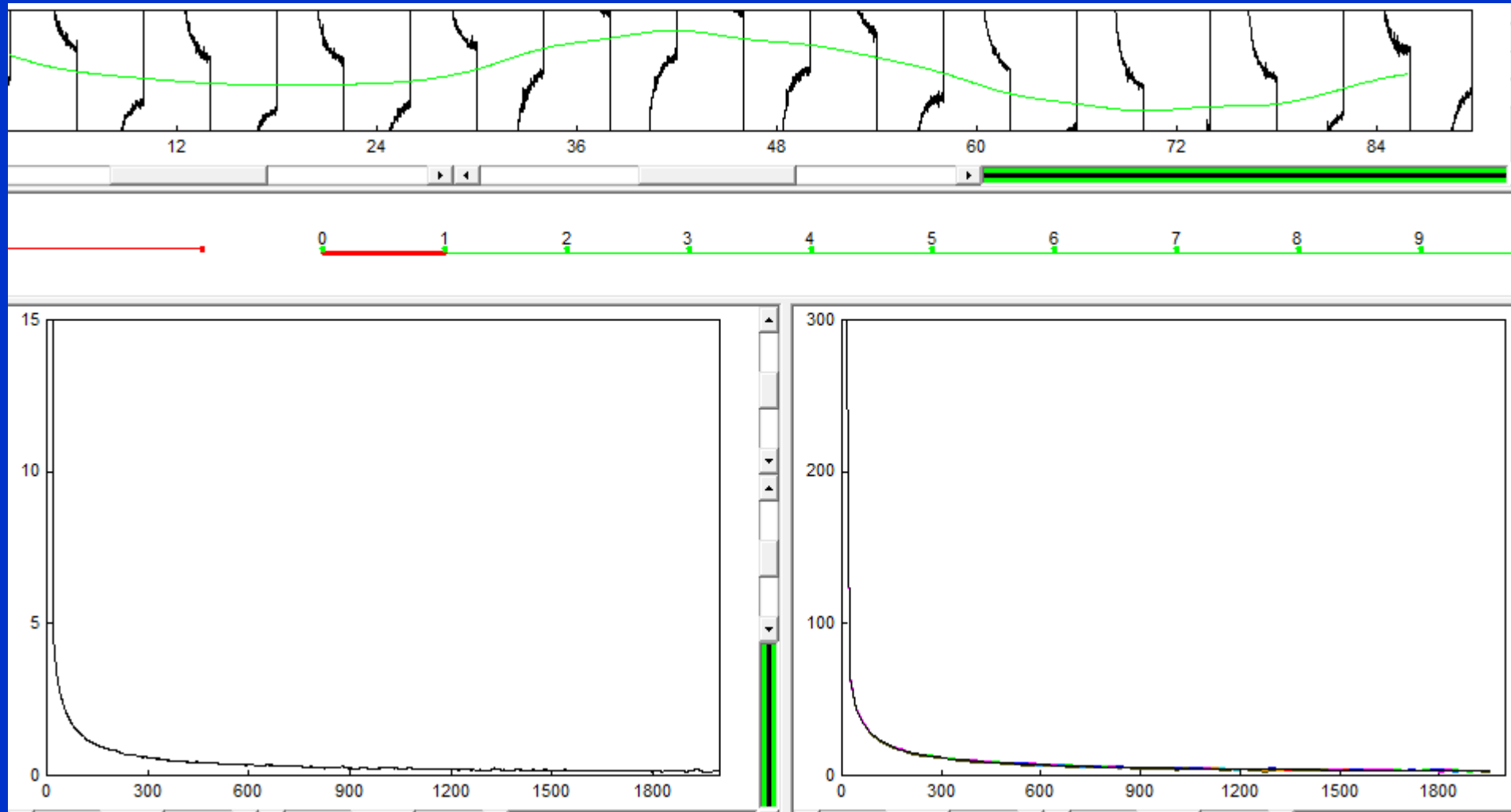
Standard Search processing: Vp: 9.92 Mx: 4.8 SD: 1.03

Synthetic response



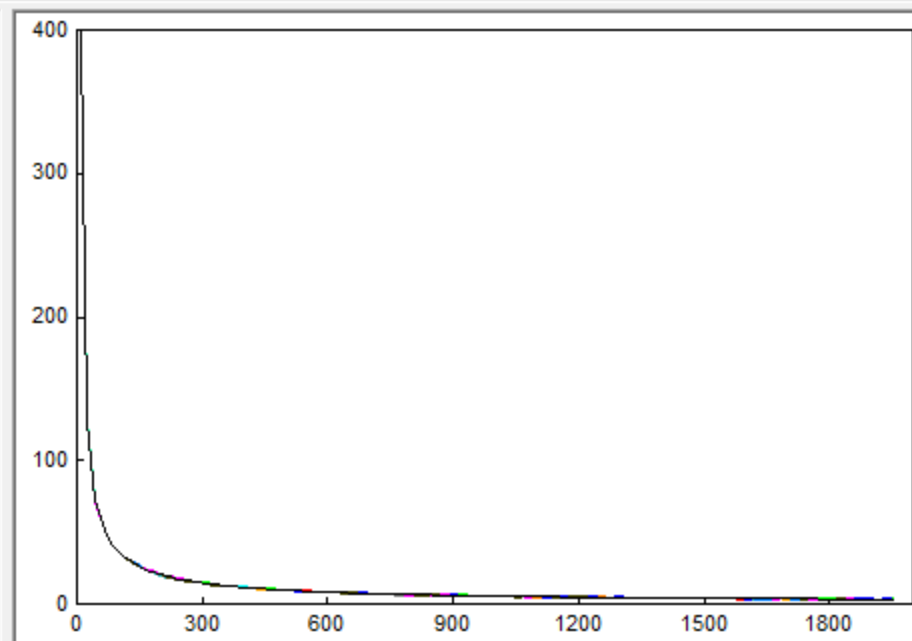
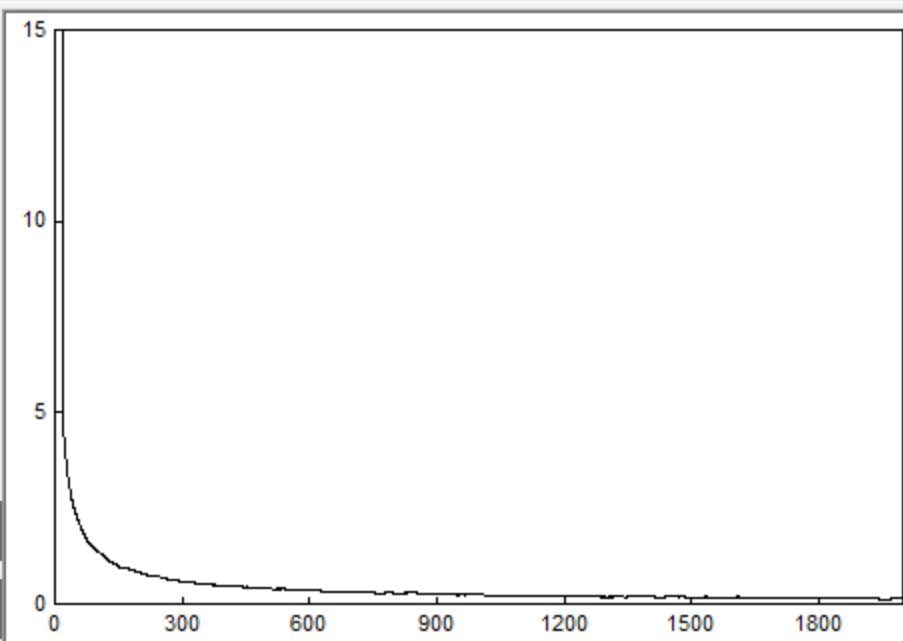
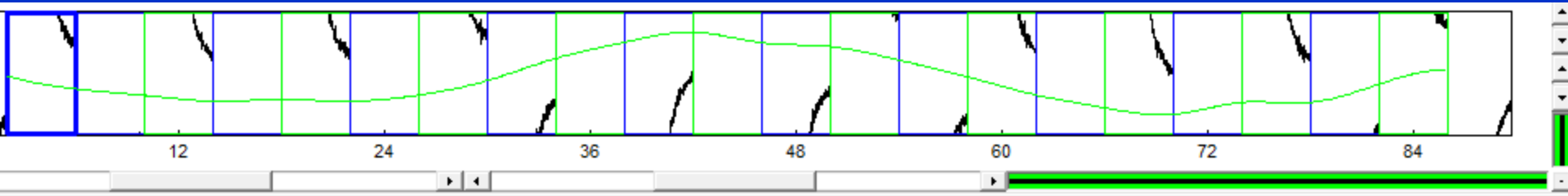
Synthetic signal: $V_p=50\text{mV}$ $M_x=5\text{ mV/V}$

Synthetic response + noise : Vp:50,Mx=5



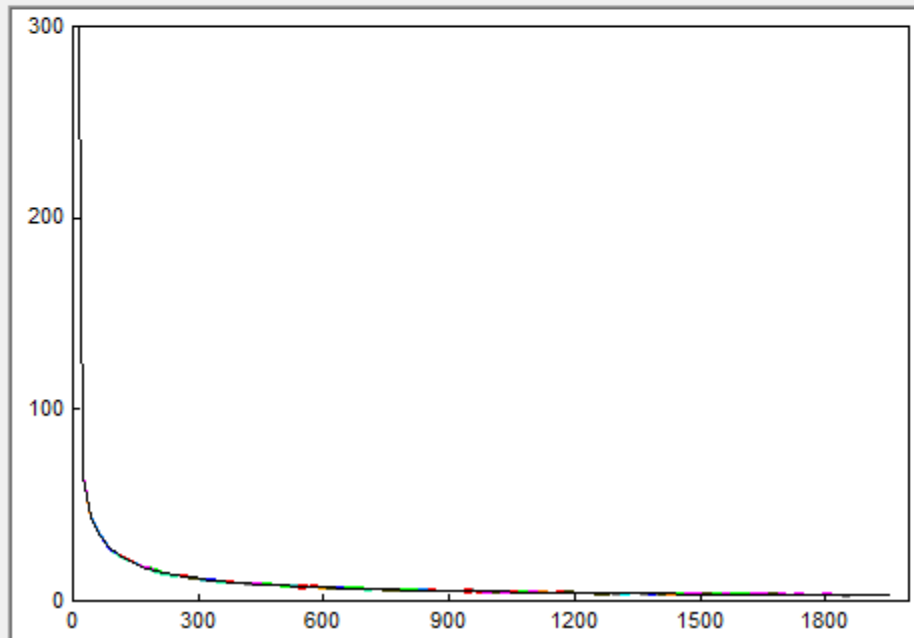
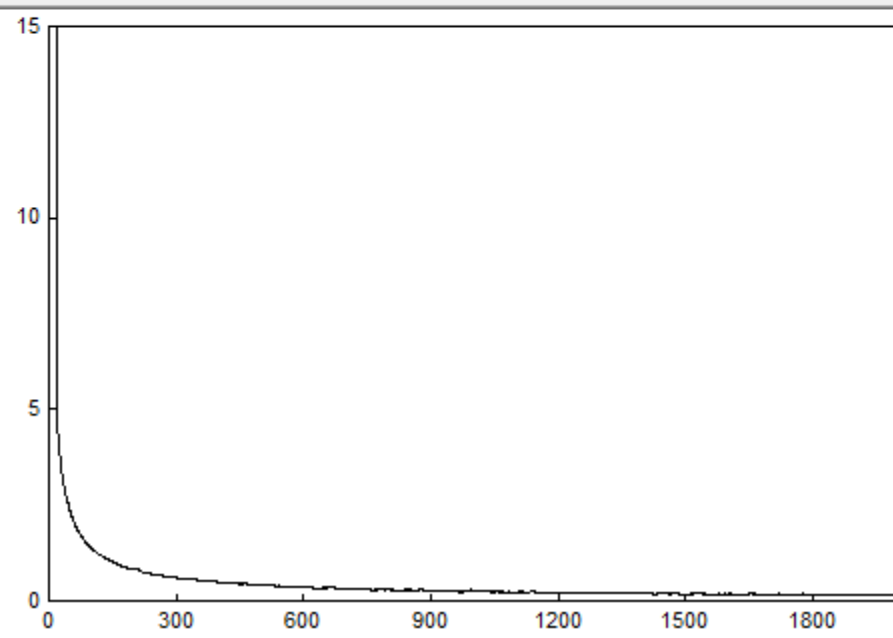
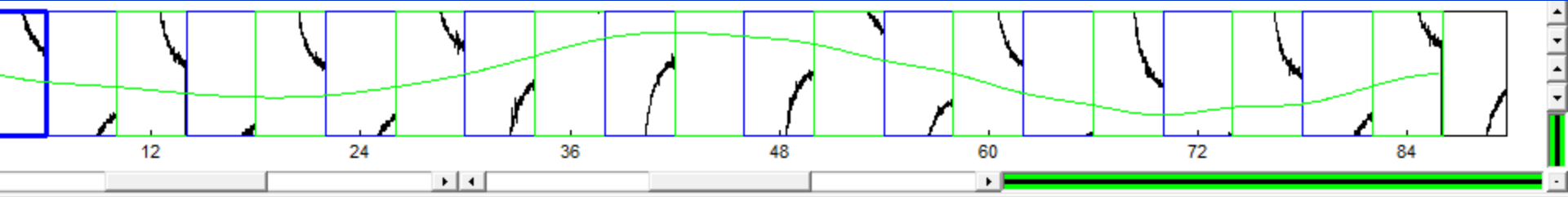
Standard Search processing: Mx: 4.96 SD: 0.156

Synthetic response + noise : Vp:50,Mx=5



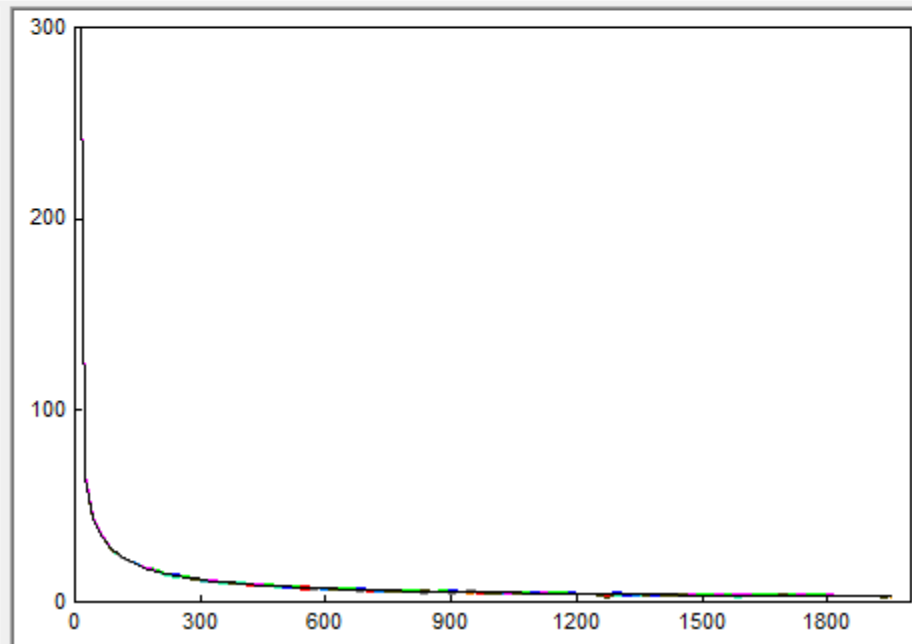
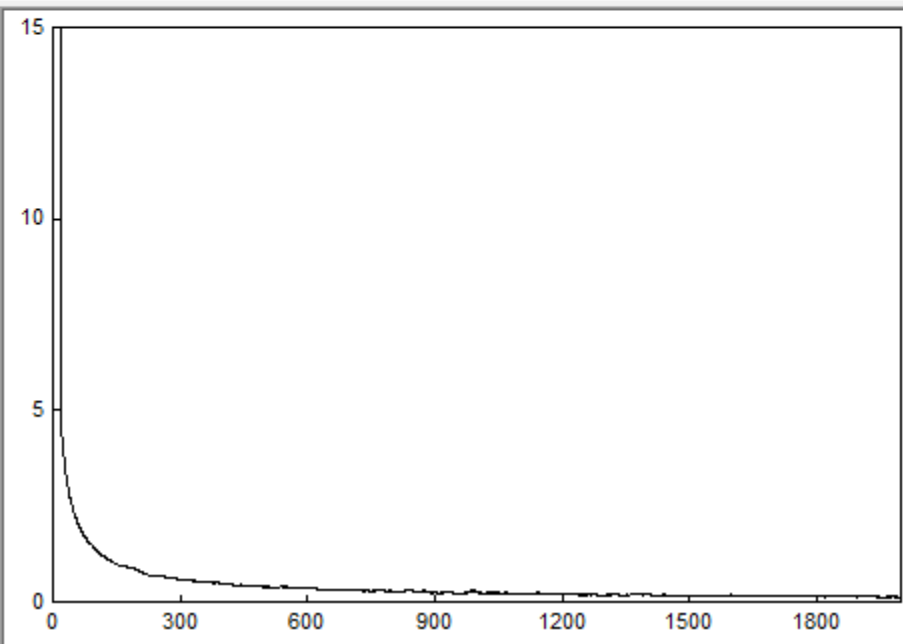
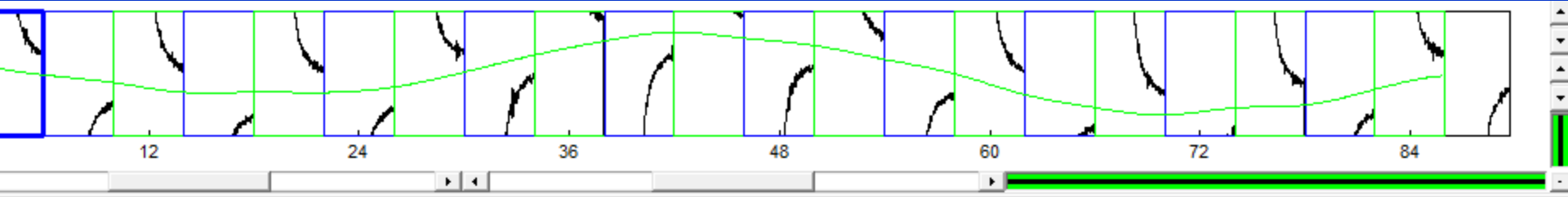
Standard Search processing: Mx: 5.0 SD: 0.121

Synthetic response + noise : Vp:50,Mx=5



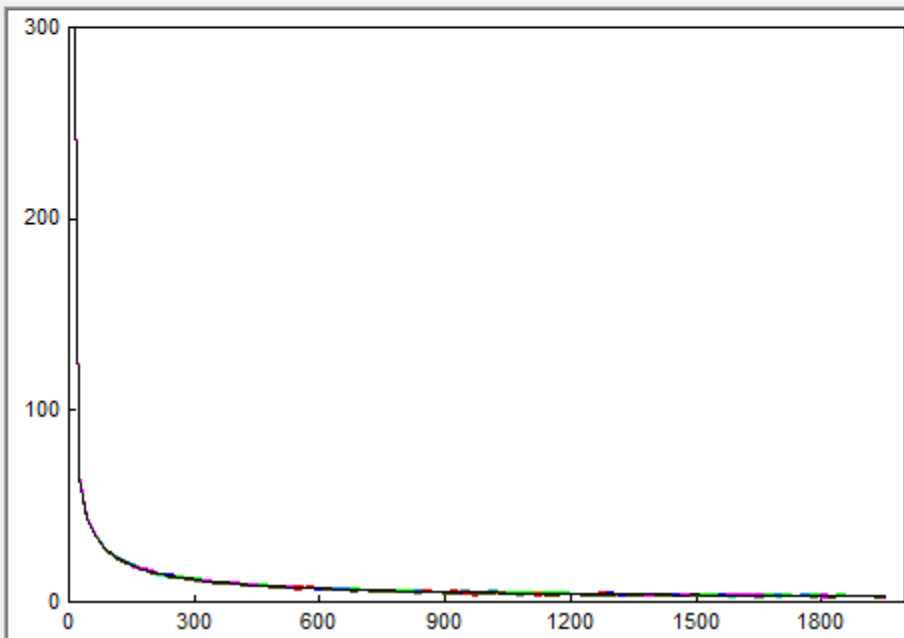
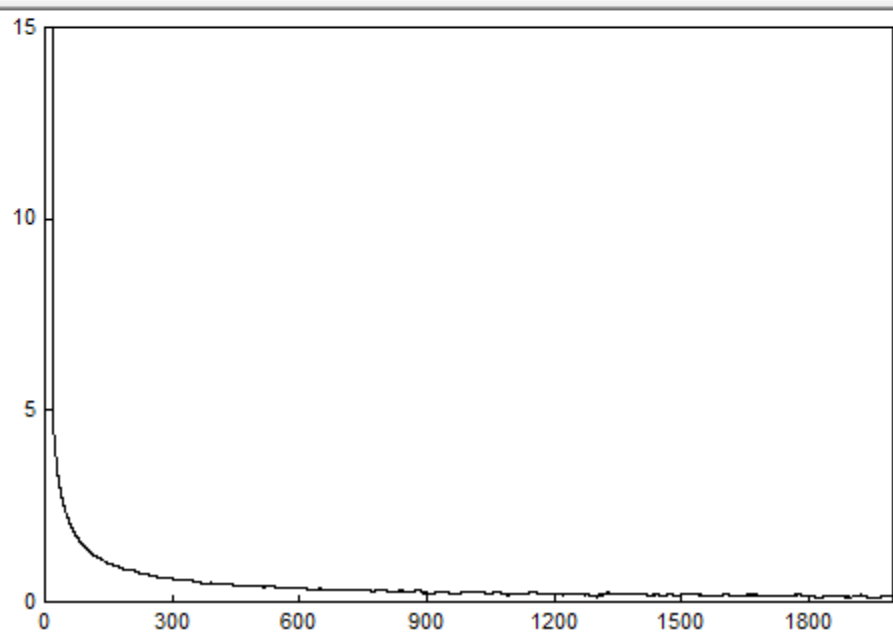
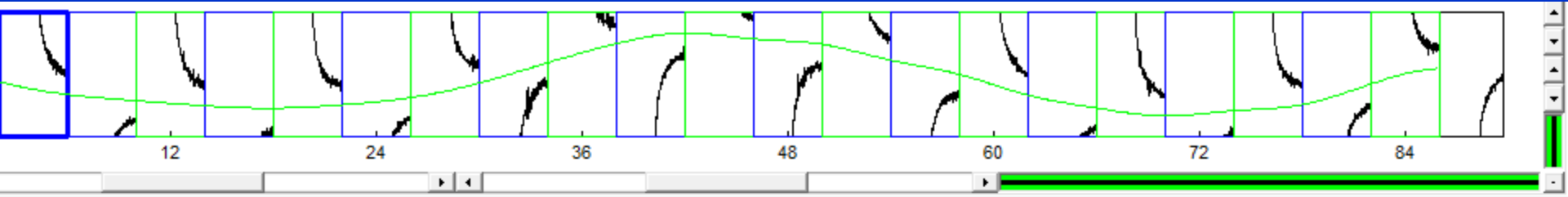
Standard Search processing: Mx: 5.0 SD:0.102

Synthetic response + noise : Vp:50,Mx=5



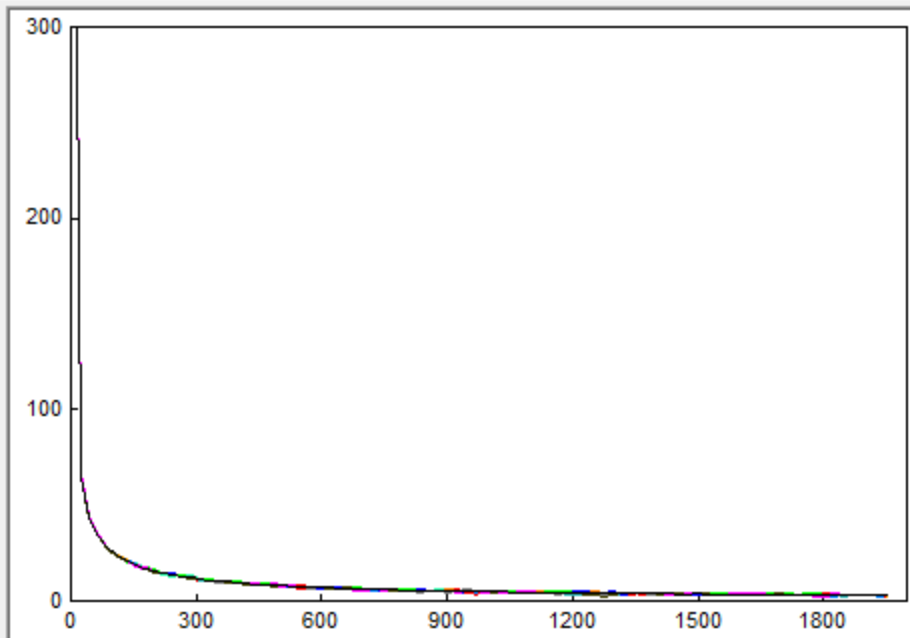
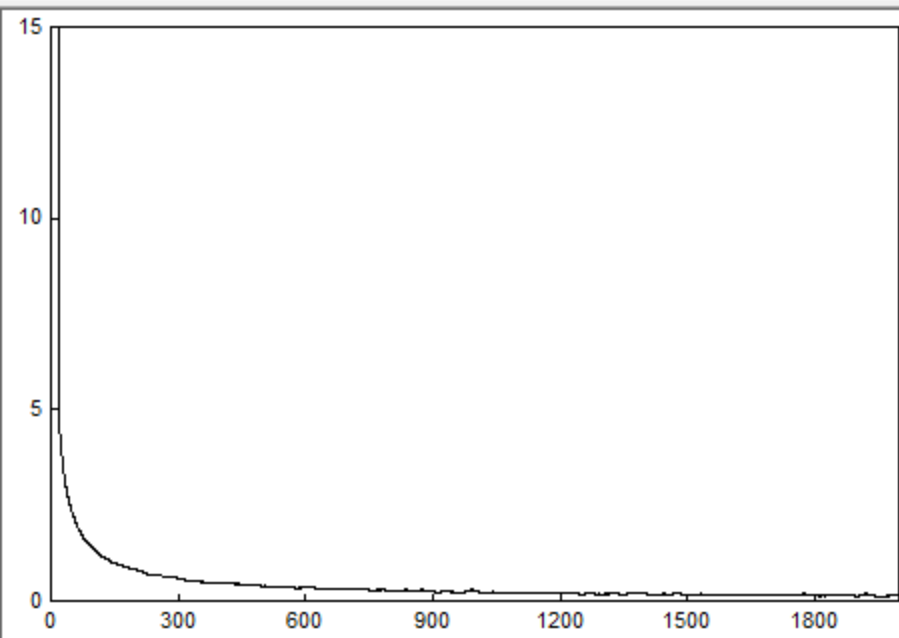
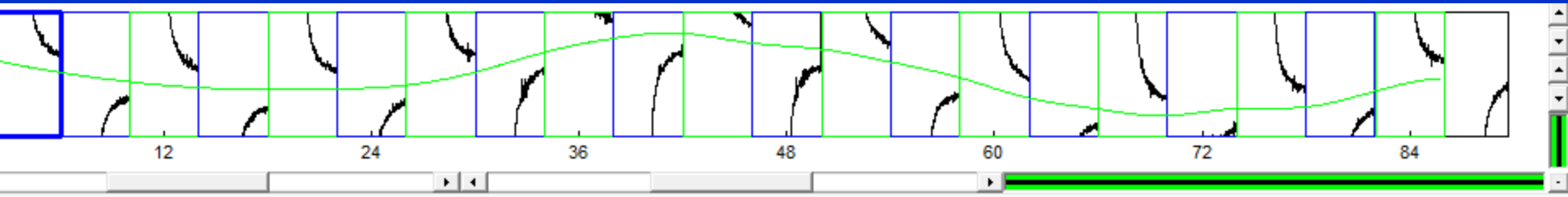
Standard Search processing: Mx: 5.0 SD: 0.177

Synthetic response + noise : Vp:50,Mx=5



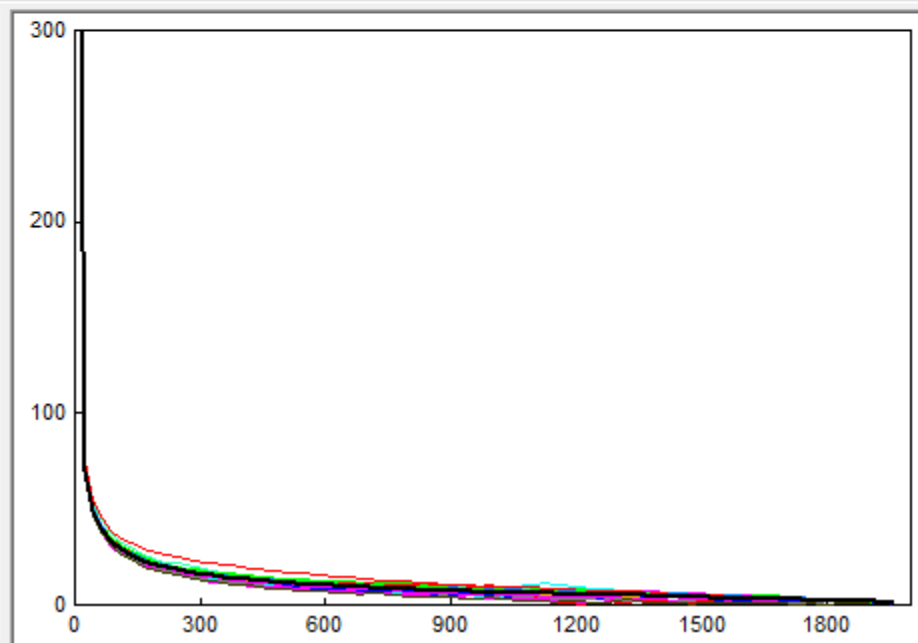
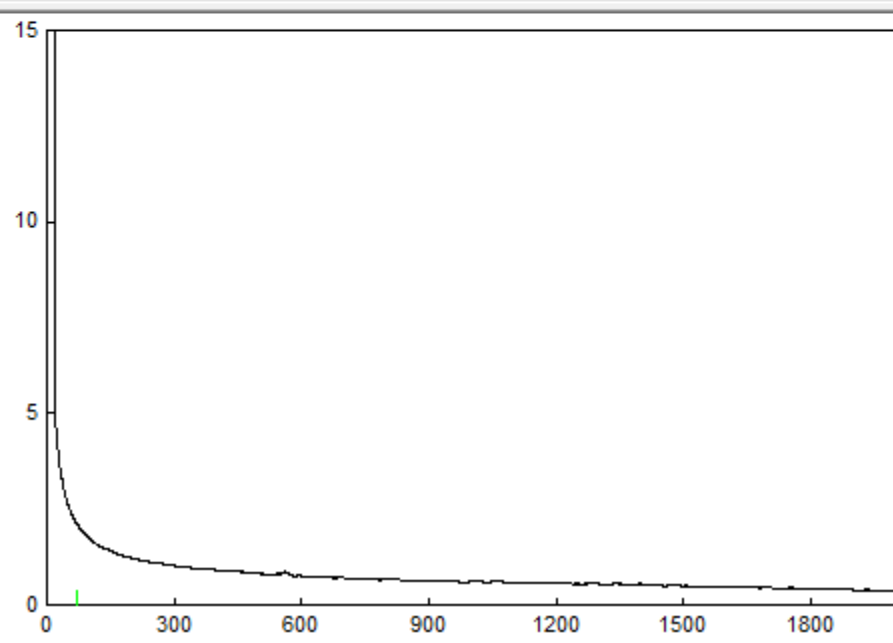
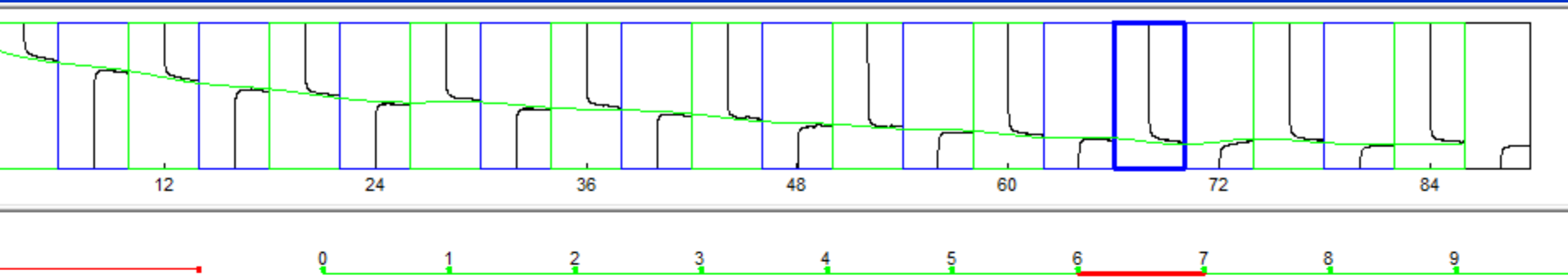
Standard Search processing: Mx: 5.0 SD: 0.187

Synthetic response + noise : Vp:50,Mx=5



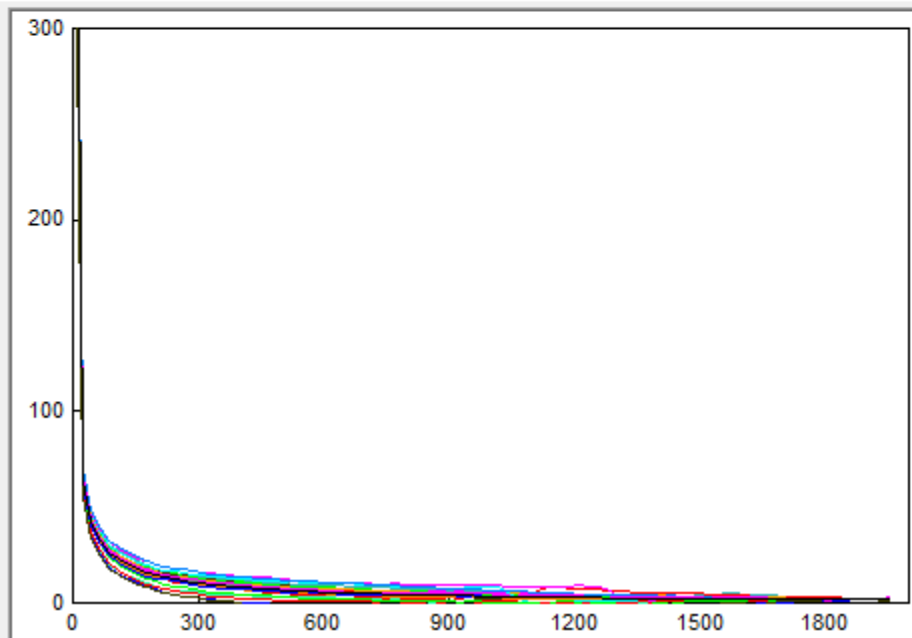
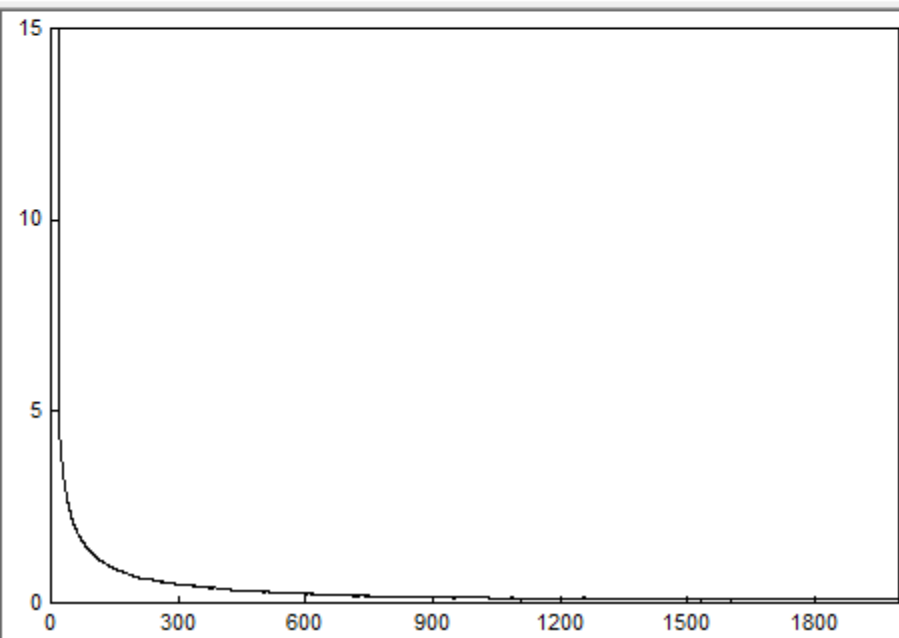
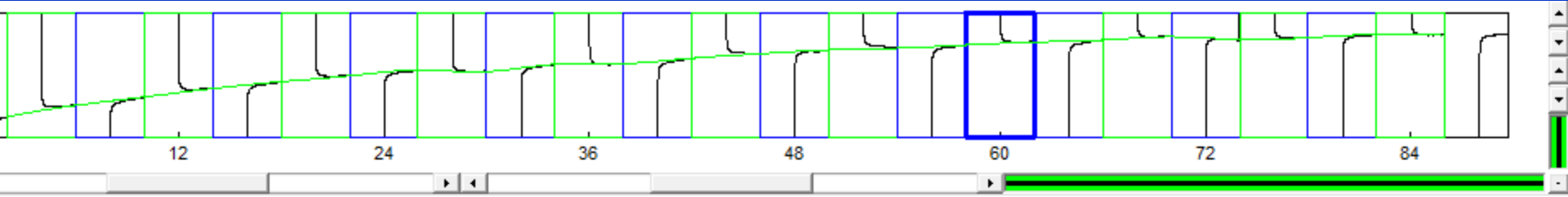
Standard Search processing: Mx: 5.0 SD: 0.168

Synthetic response + noise : Vp:50,Mx=5



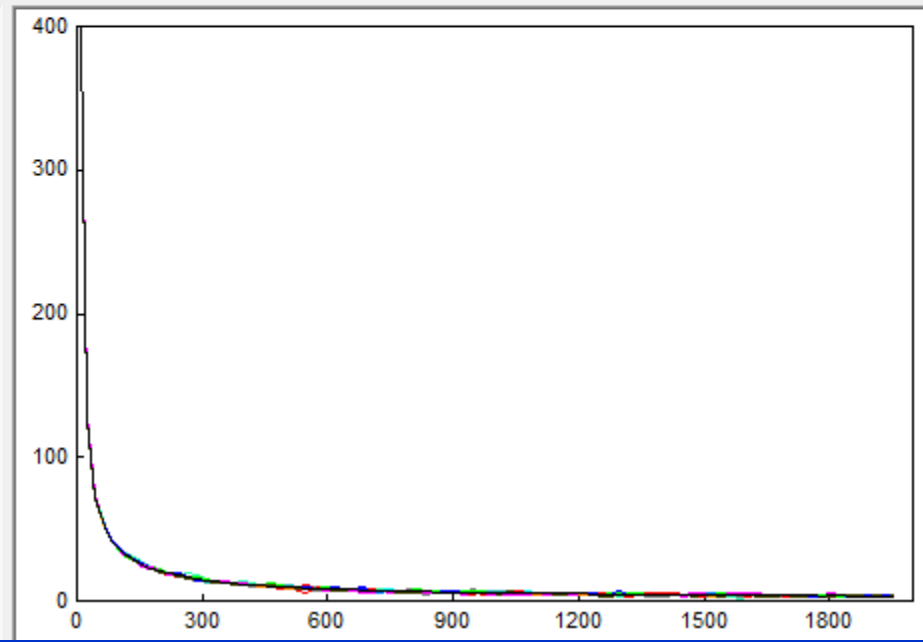
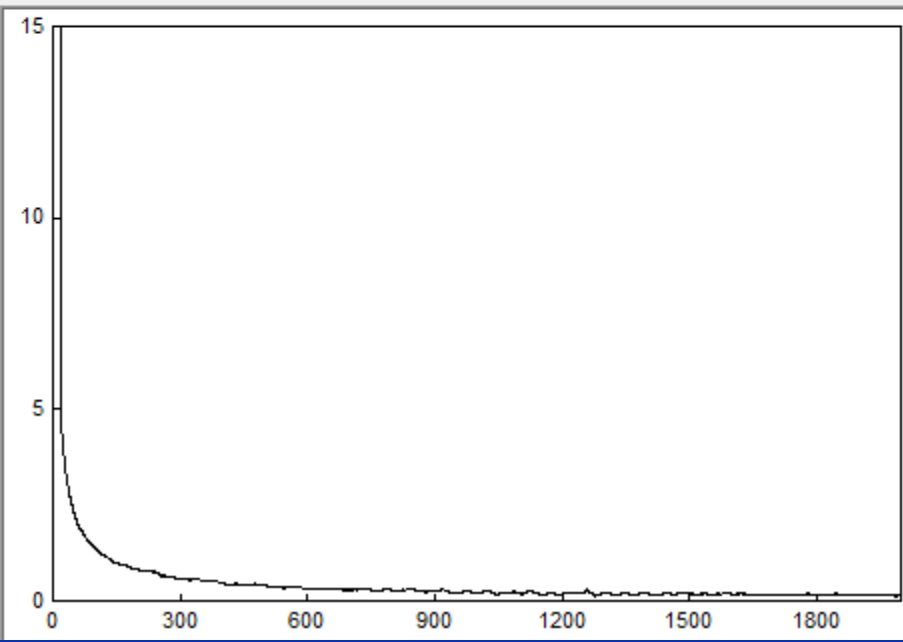
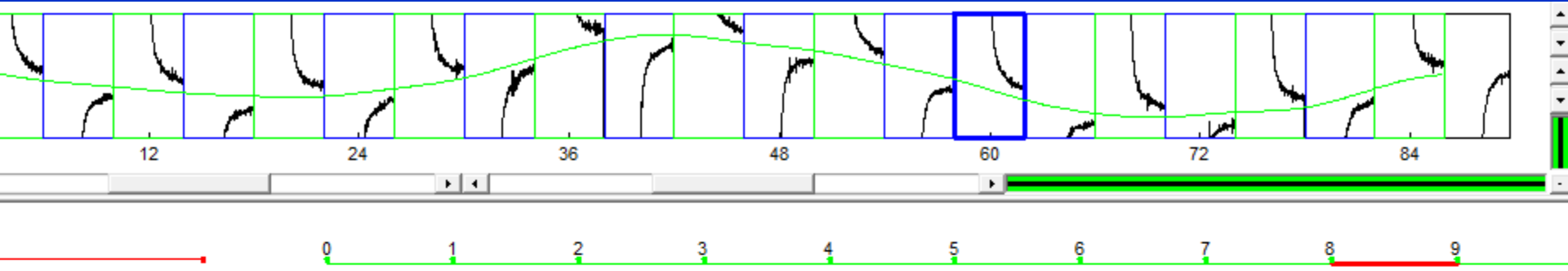
Standard Search processing: Mx: 6.9 SD: 1.59

Synthetic response + noise : Vp:50,Mx=5



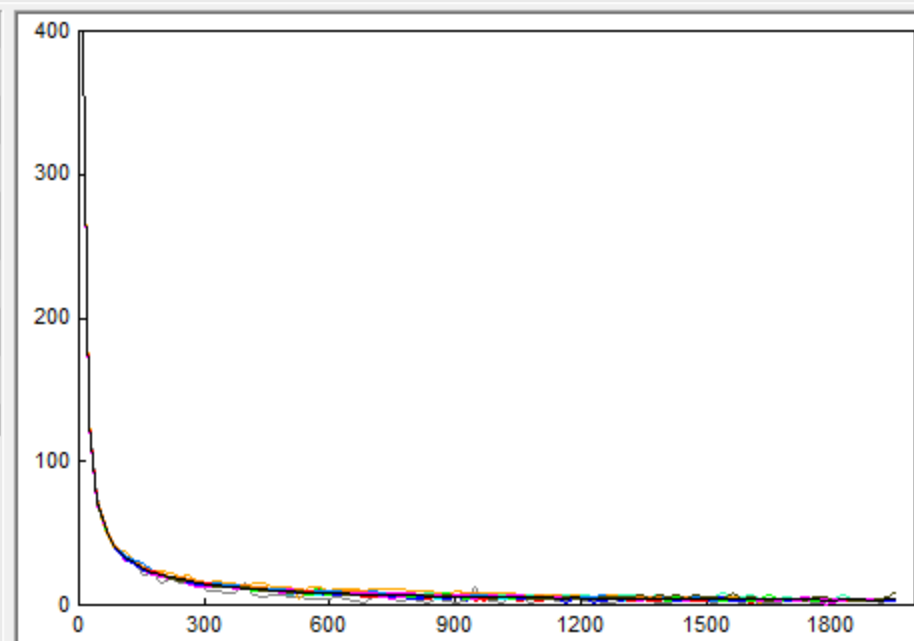
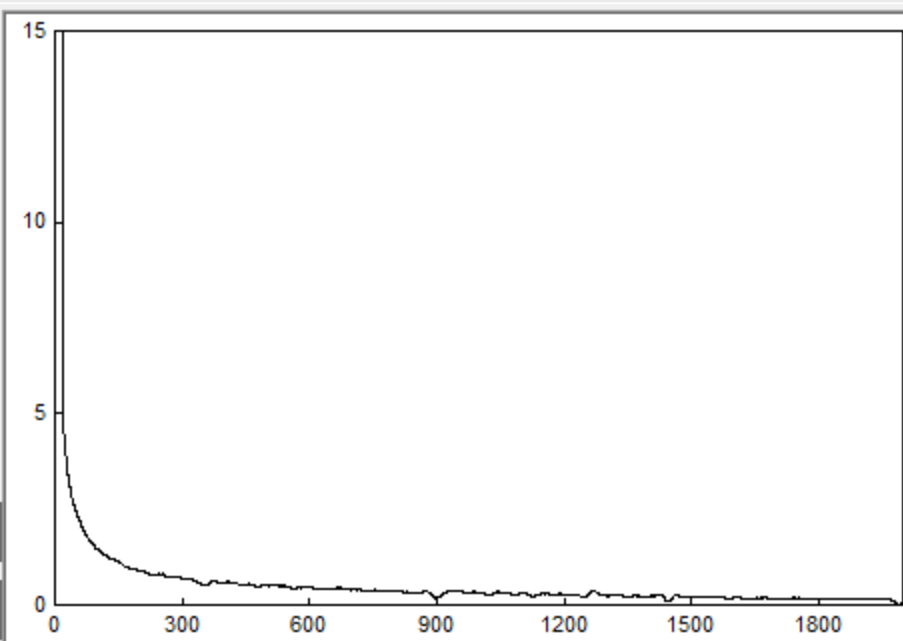
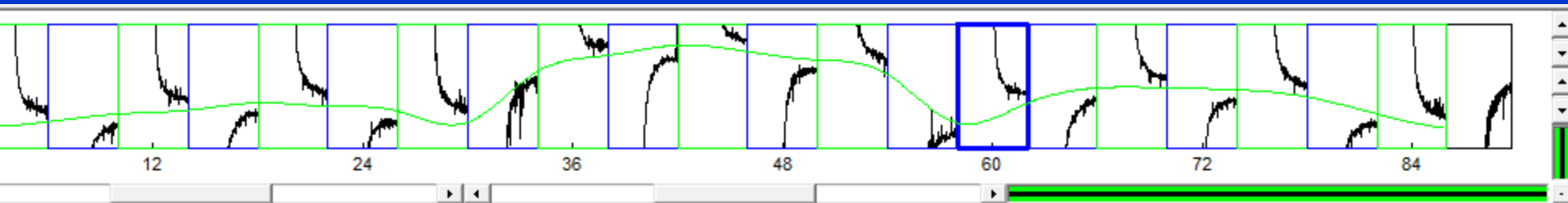
Standard Search processing: Mx: 3.7 SD: 1.69

Synthetic response + noise : Vp:50,Mx=5



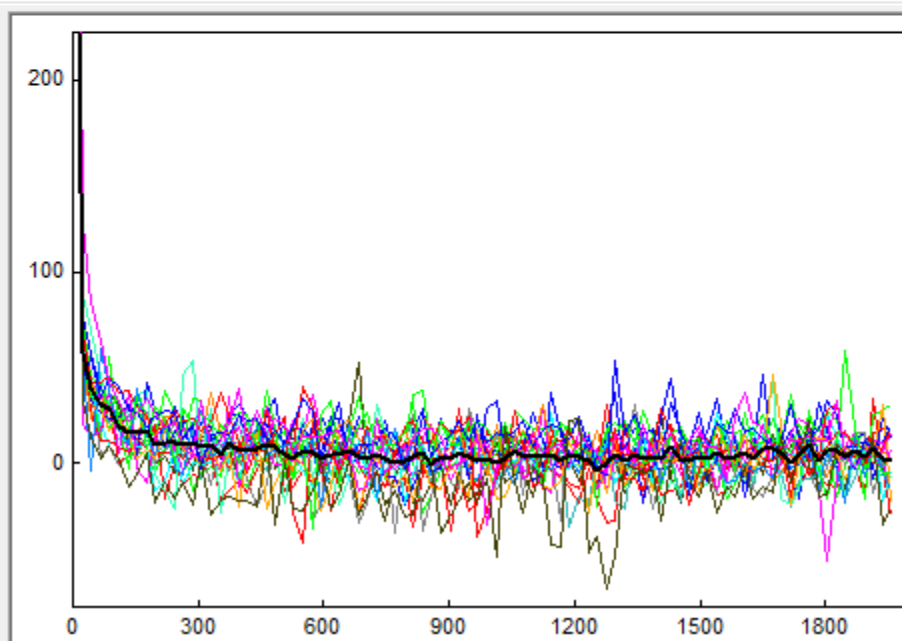
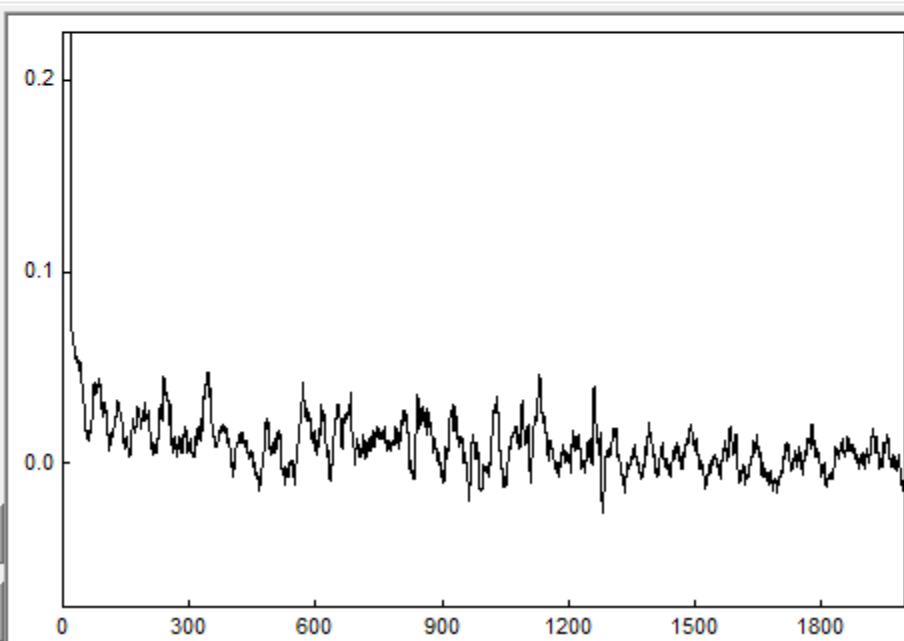
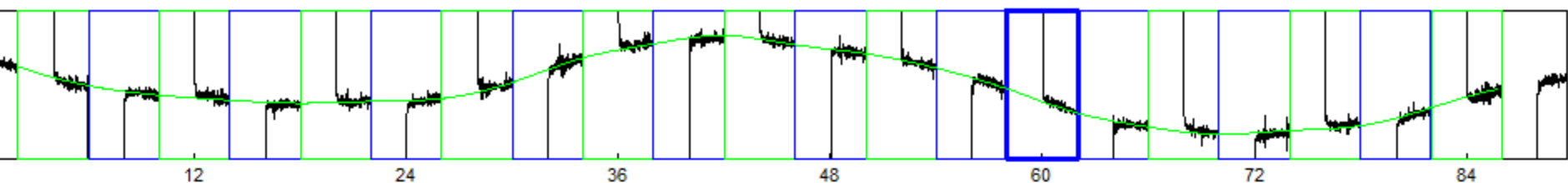
Standard Search processing: Mx: 5.1 SD: 0.34

Synthetic response + noise : Vp:50,Mx=5



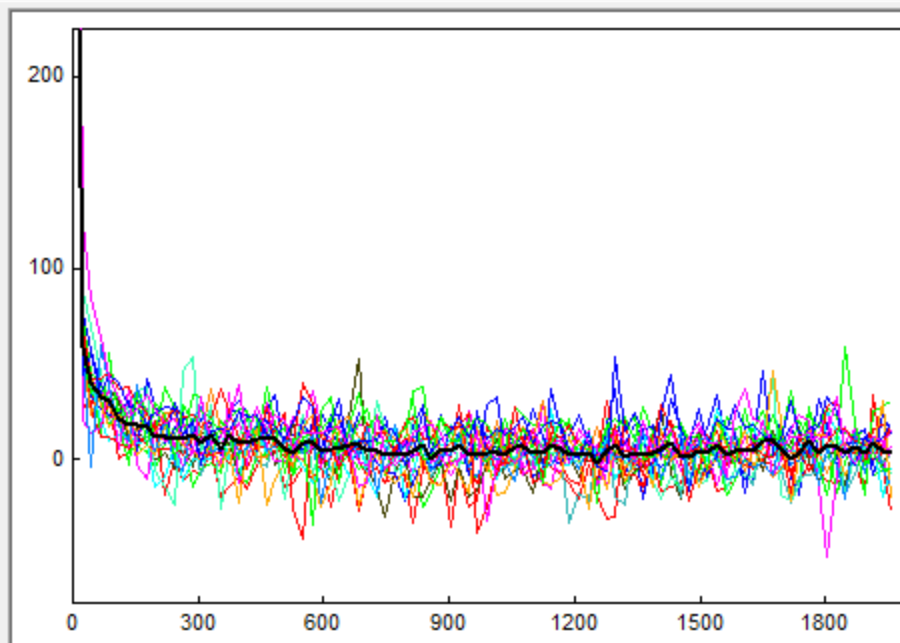
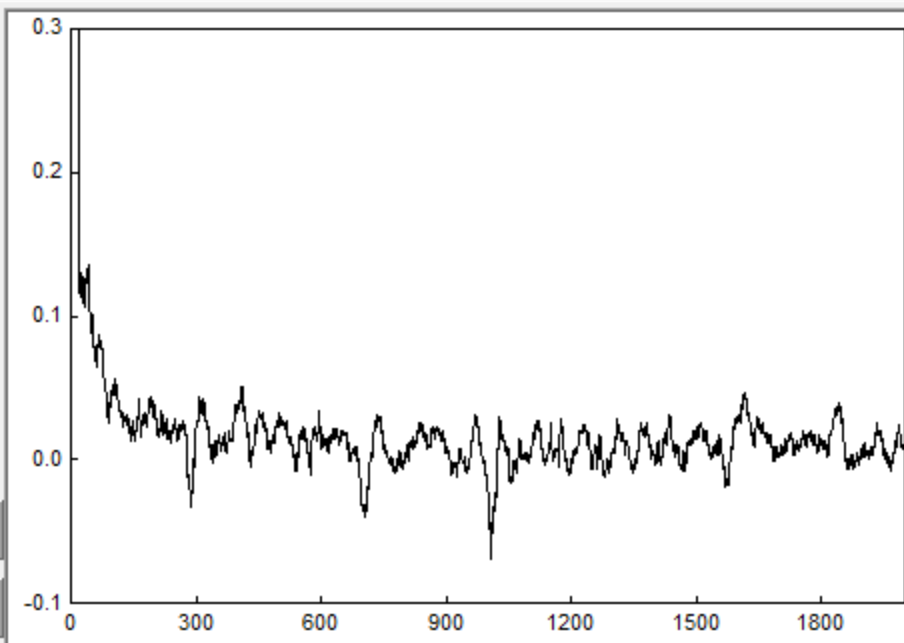
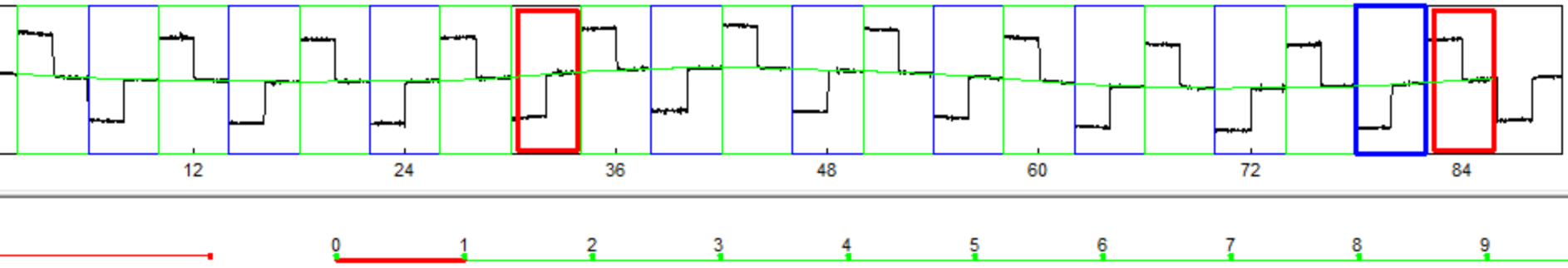
Standard Search processing: Mx: 5.7 SD: 0.908

Synthetic response + noise : Vp:1,Mx=5



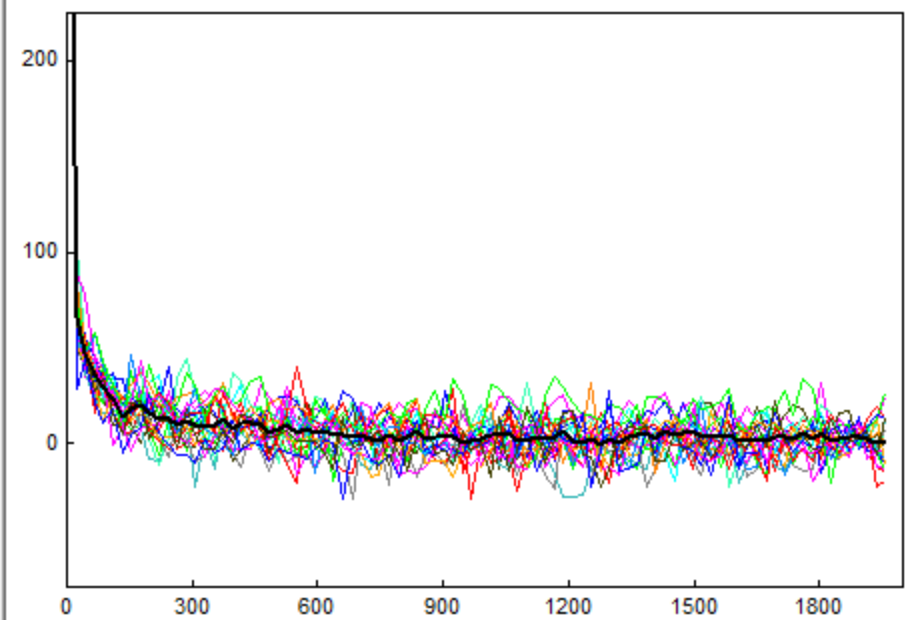
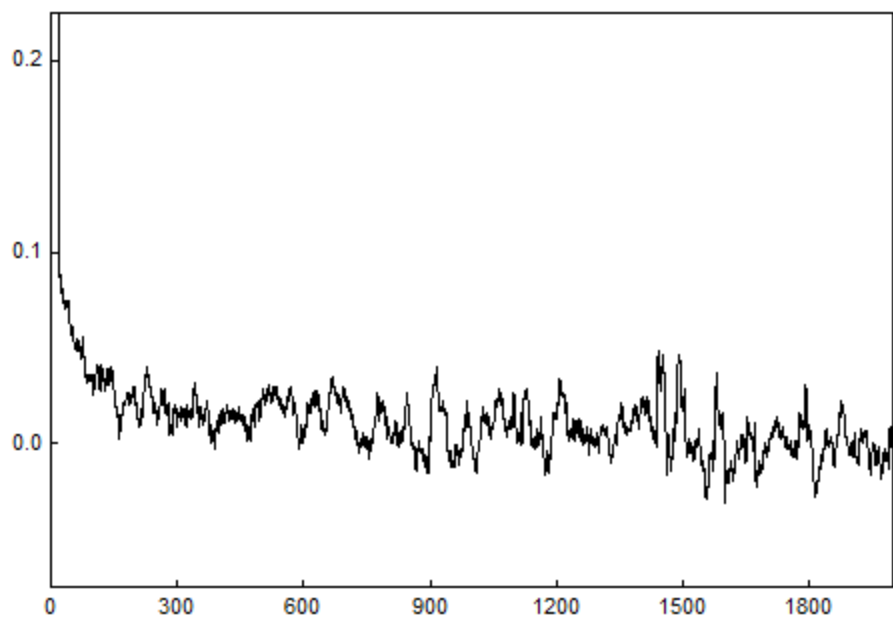
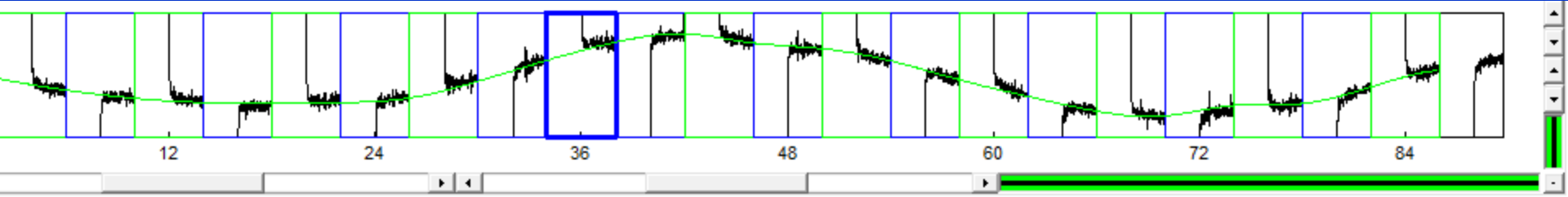
Standard Search processing: Mx: 3.0 SD: 7.48

Synthetic response + noise : Vp:1,Mx=5



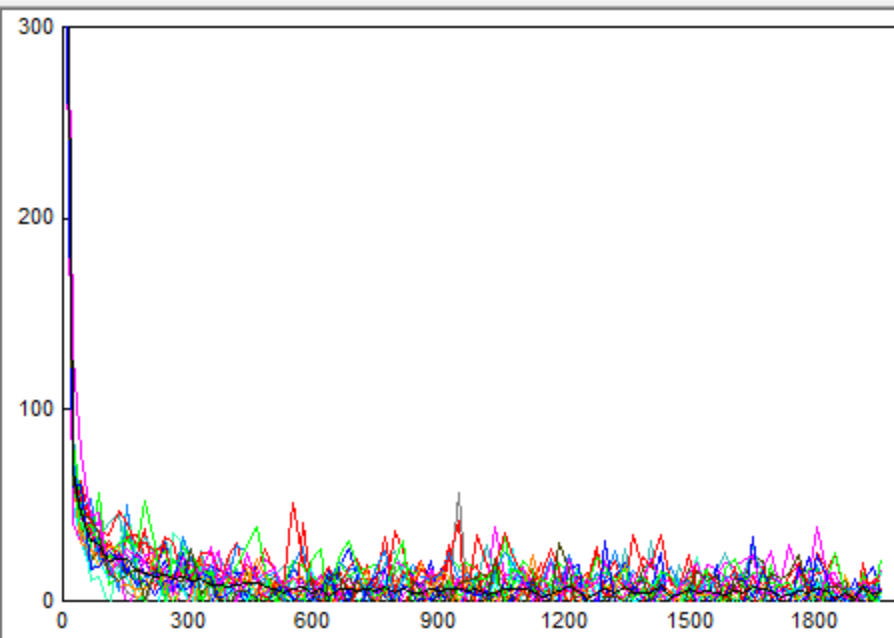
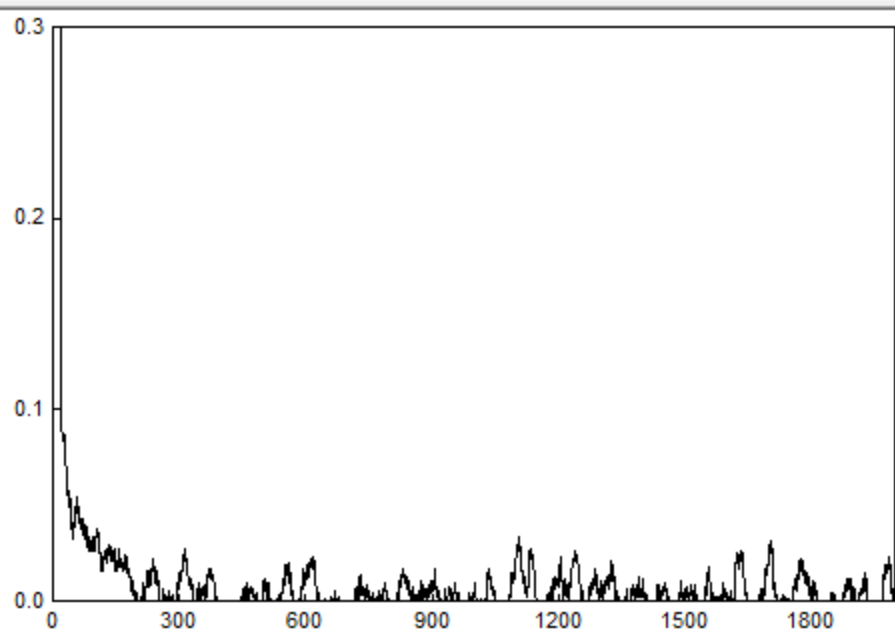
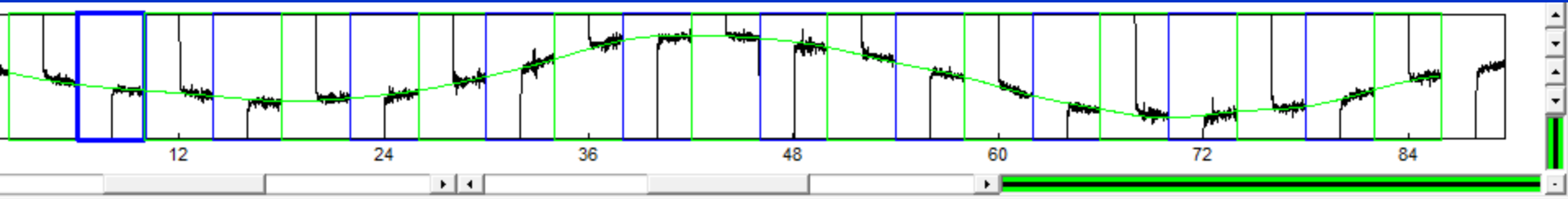
Remove 10% noisiest repeats: Mx: 4.3 SD: 6.17

Synthetic response + noise : Vp:1,Mx=5



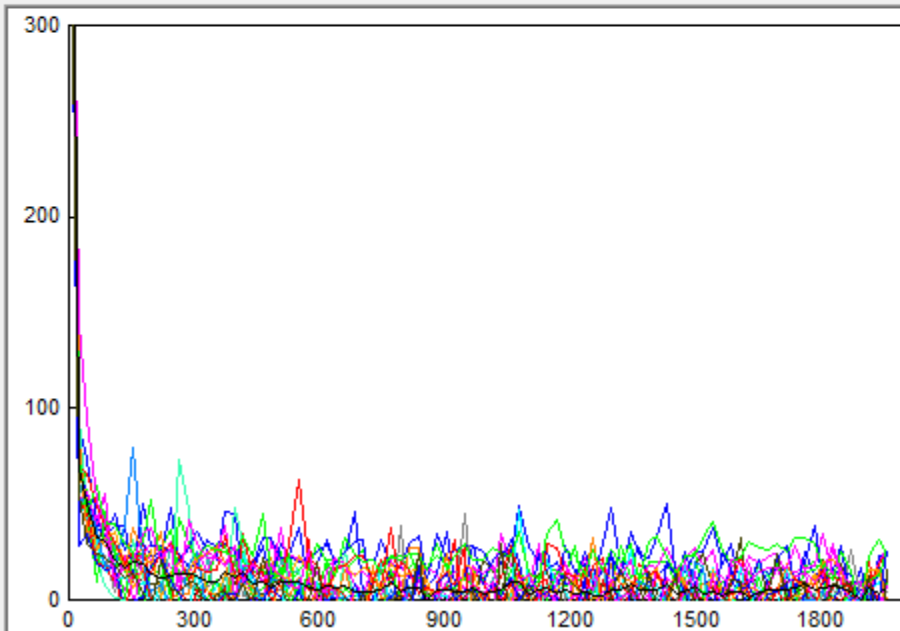
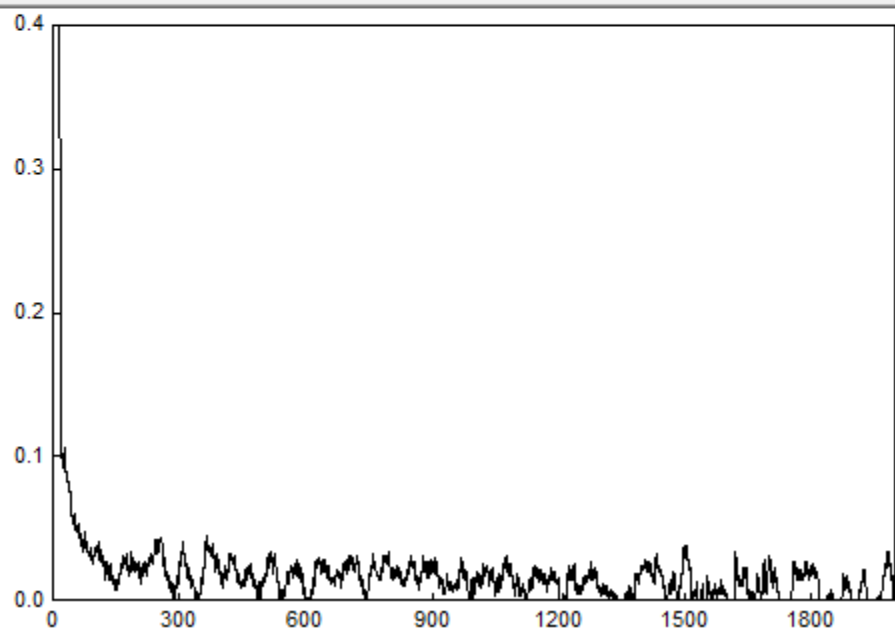
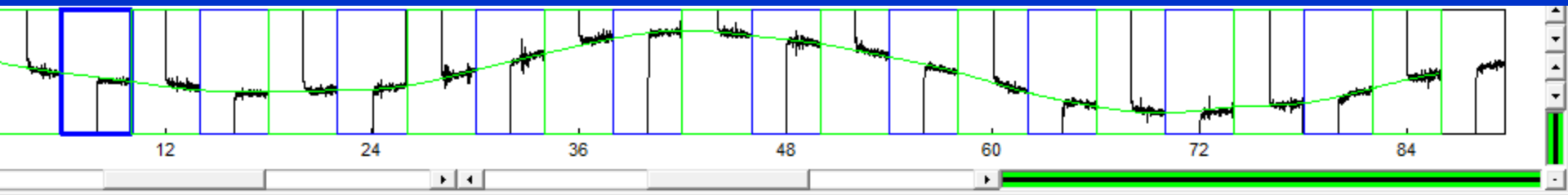
Standard Search processing: Mx: 3.4 SD: 5.98

Synthetic response + noise : Vp:1,Mx=5



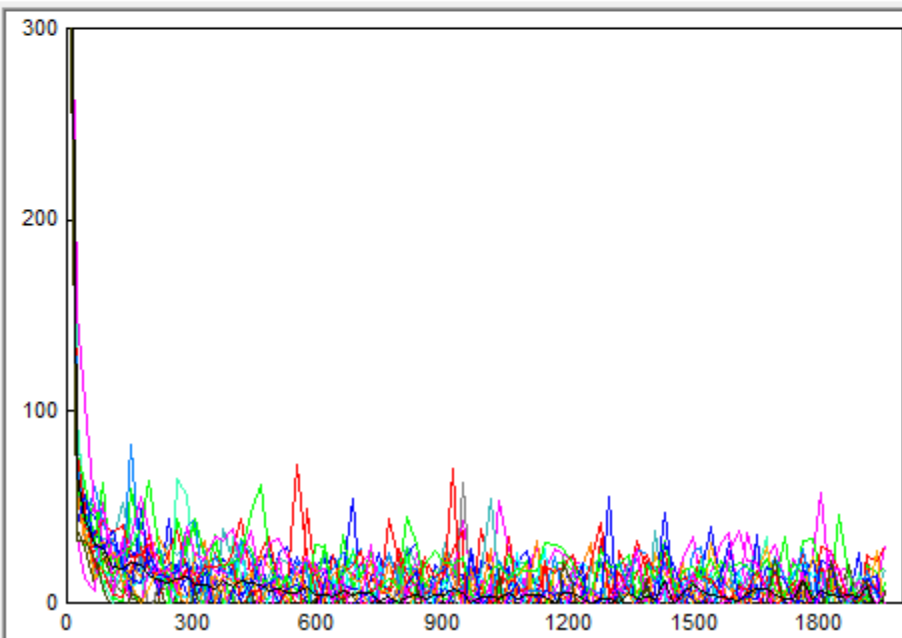
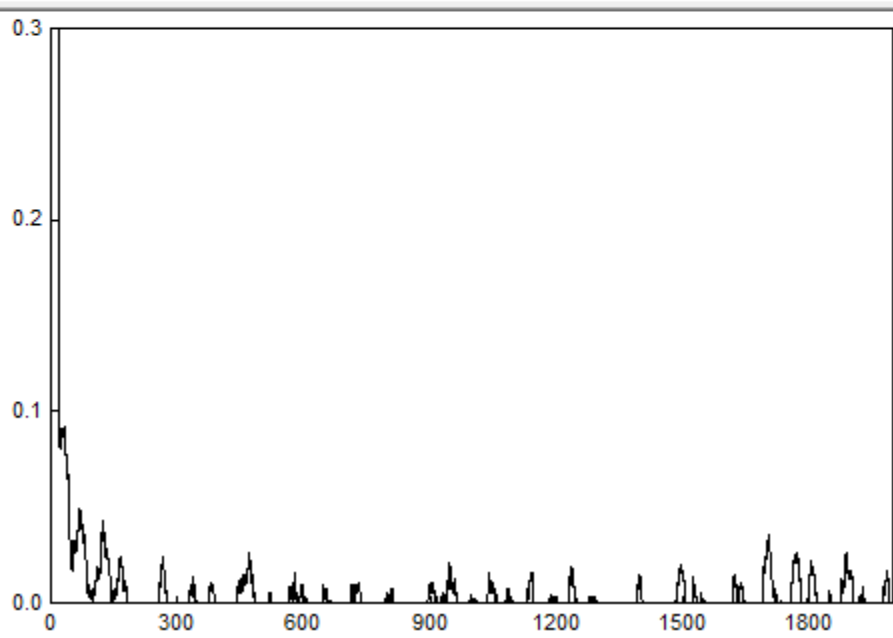
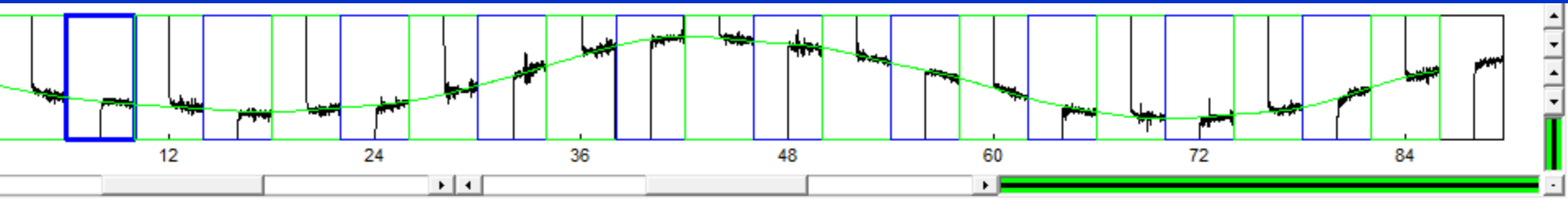
Standard Search processing: Mx: 5.2 SD: 4.79

Synthetic response + noise : Vp:1,Mx=5



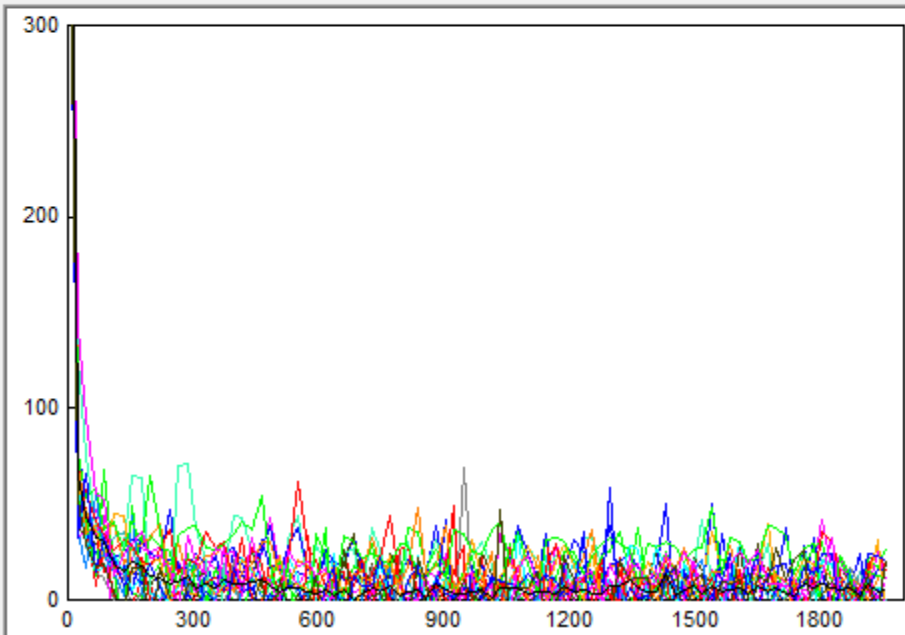
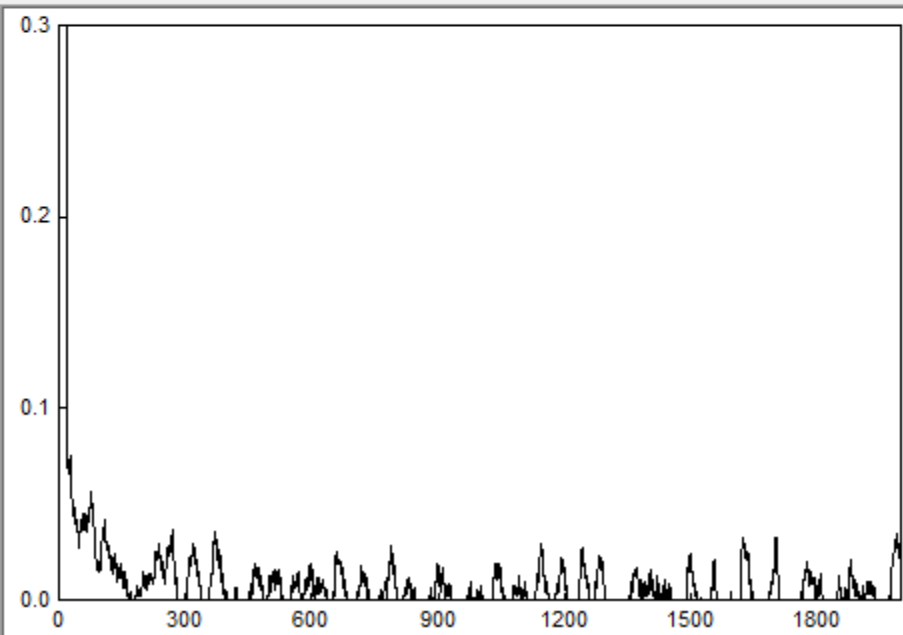
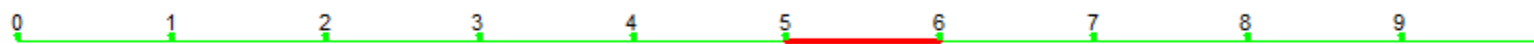
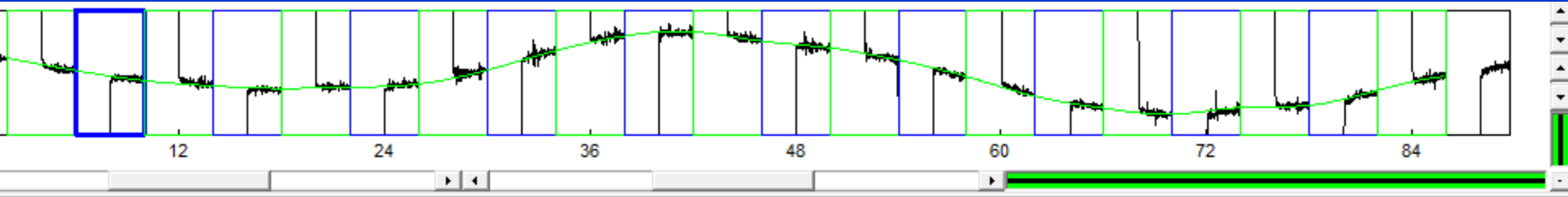
Standard Search processing: Mx: 5.2 SD: 8.71

Synthetic response + noise : Vp:1,Mx=5



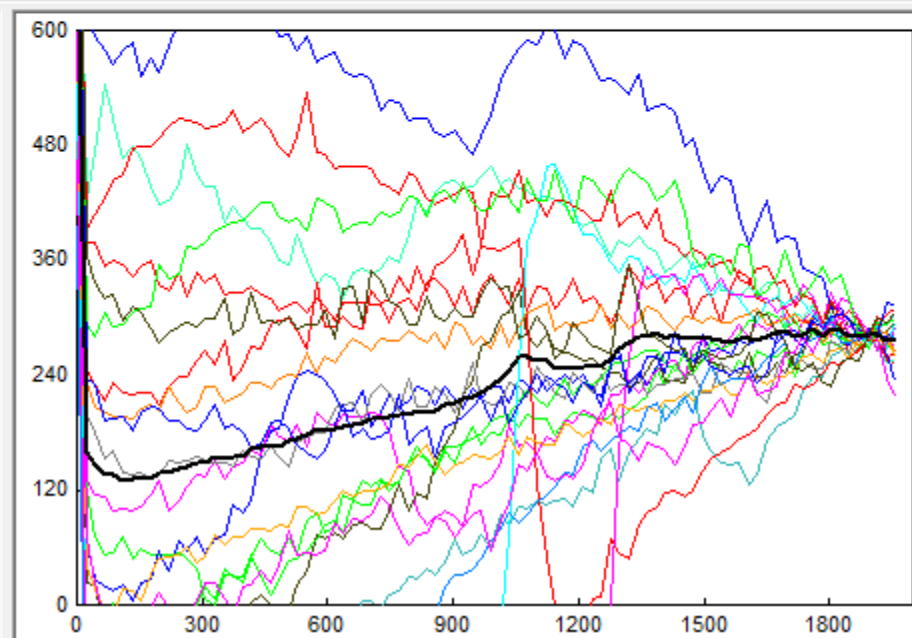
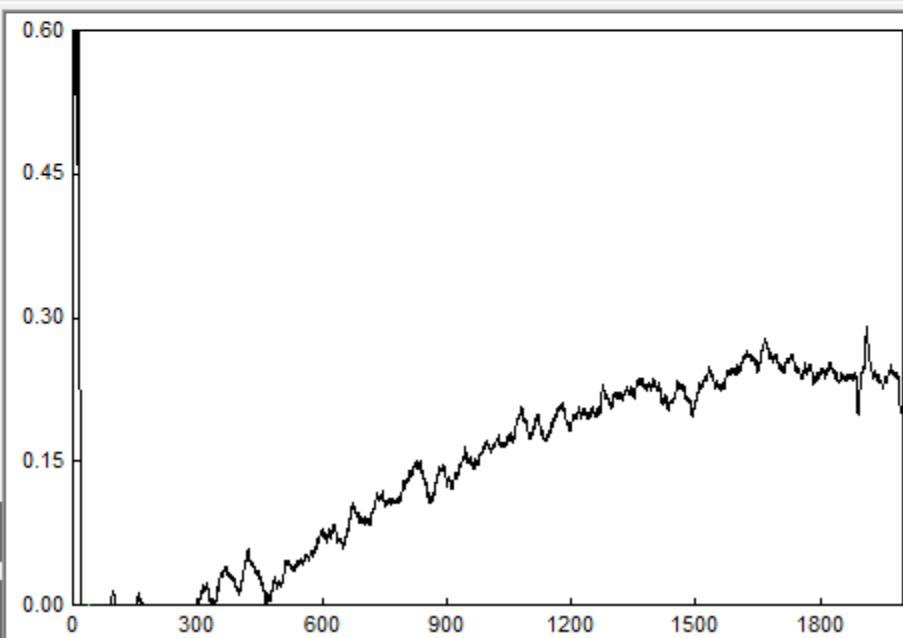
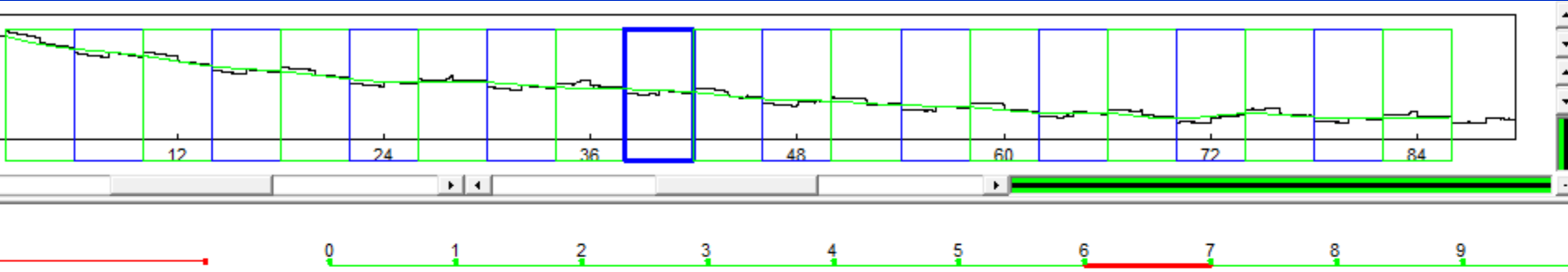
Standard Search processing: Mx: 4.5 SD: 9.01

Synthetic response + noise : Vp:1,Mx=5



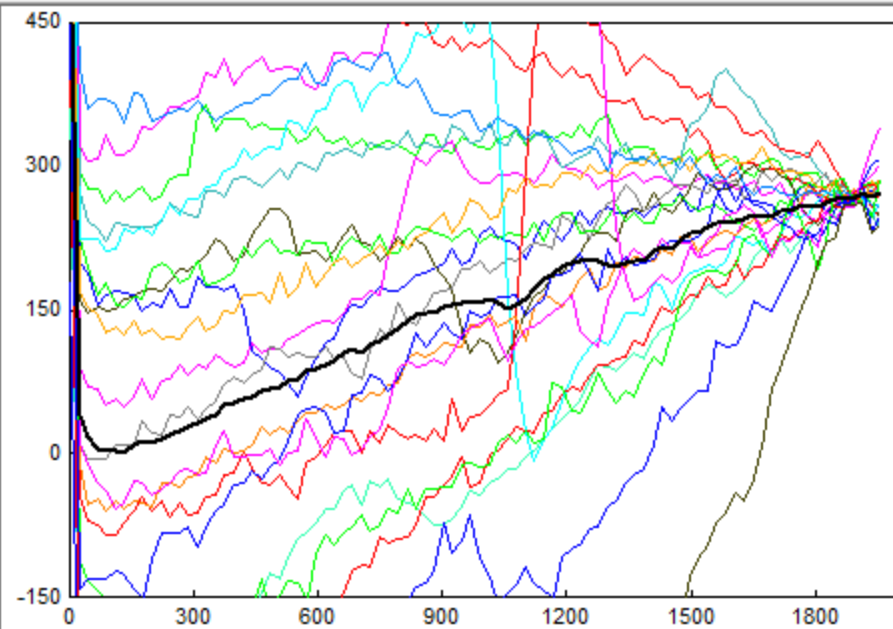
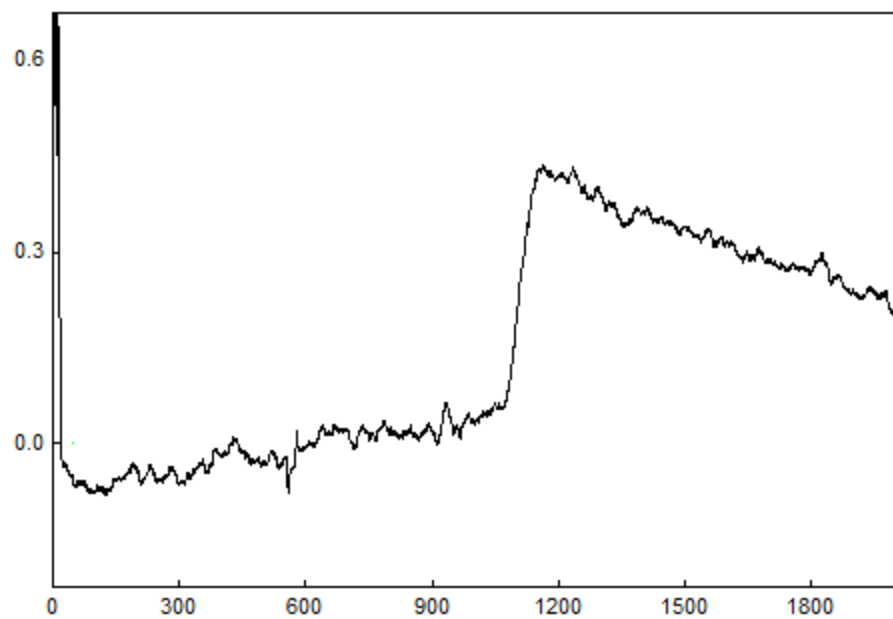
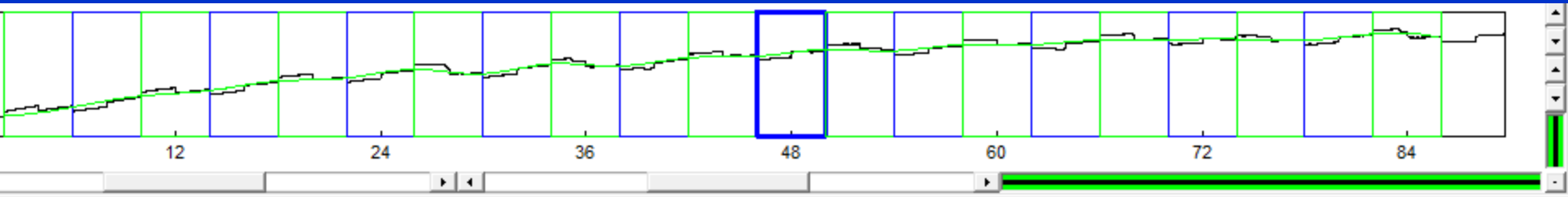
Standard Search processing: Mx: 4.9 SD: 8.40

Synthetic response + noise : Vp:1,Mx=5



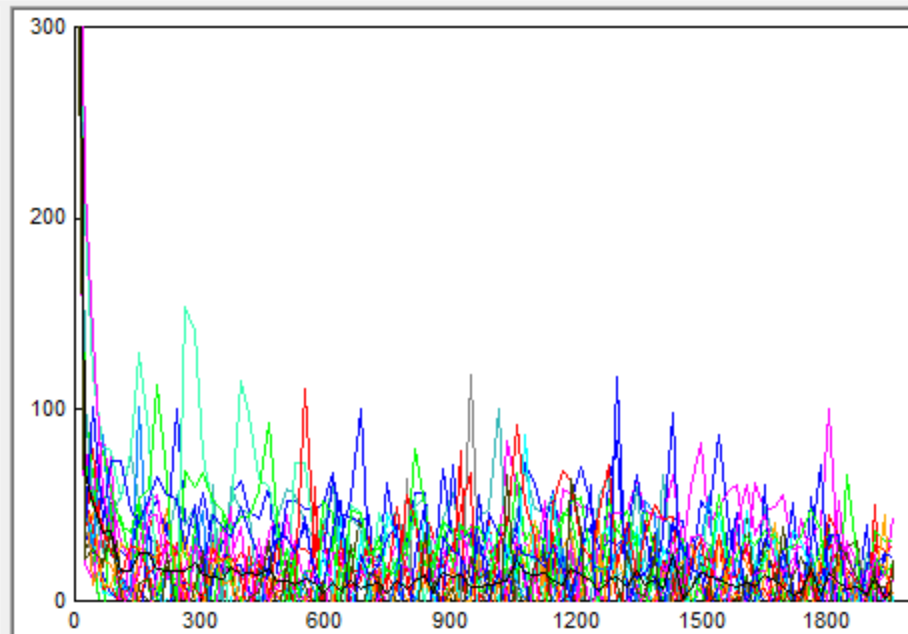
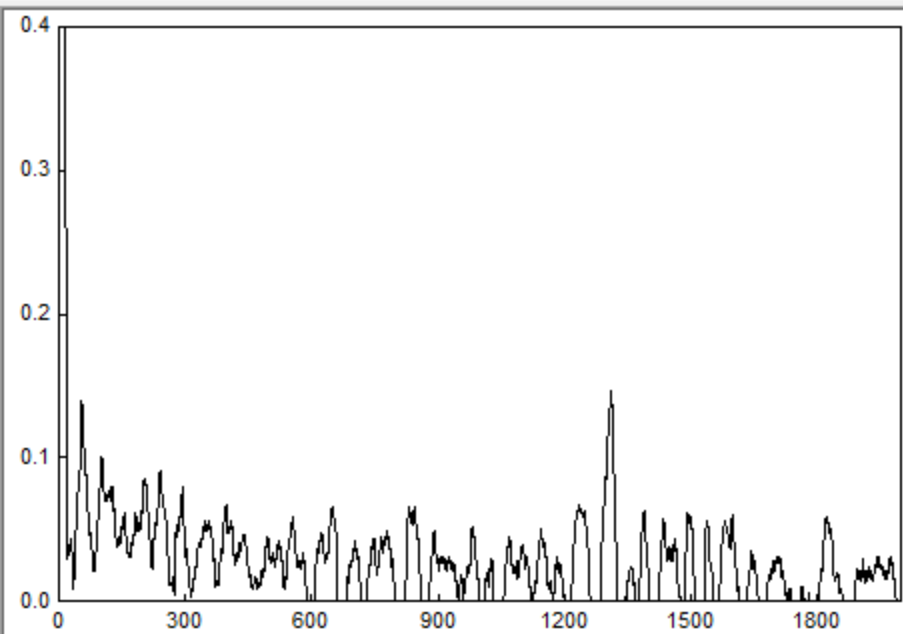
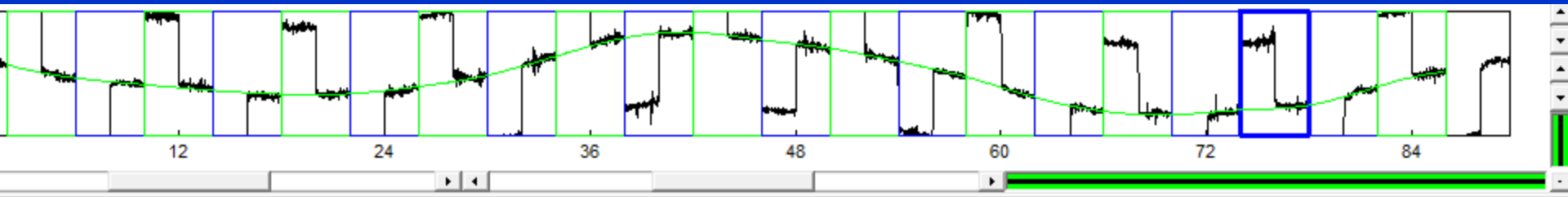
Standard Search processing: Mx: 231.2 SD: 130.89

Synthetic response + noise : Vp:1,Mx=5



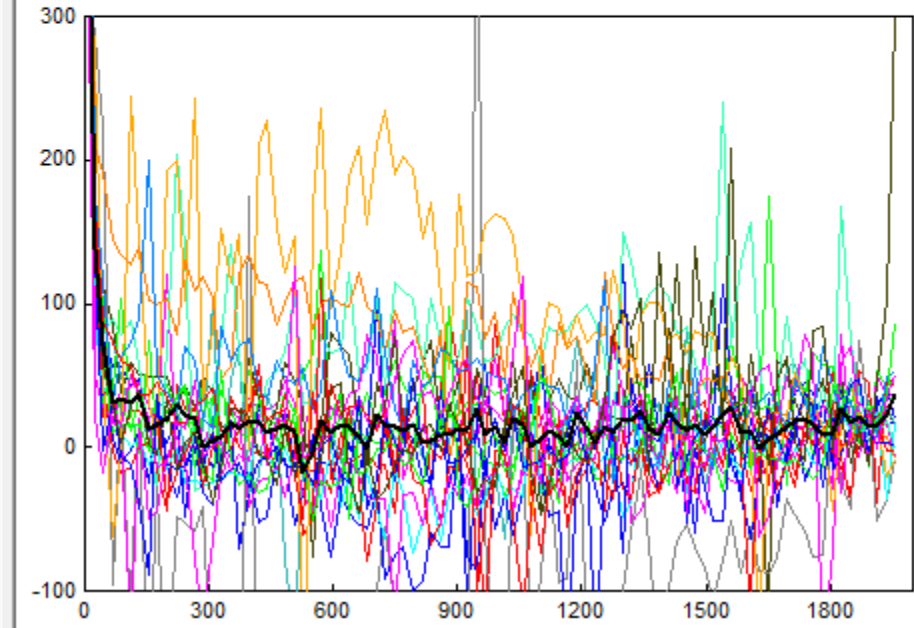
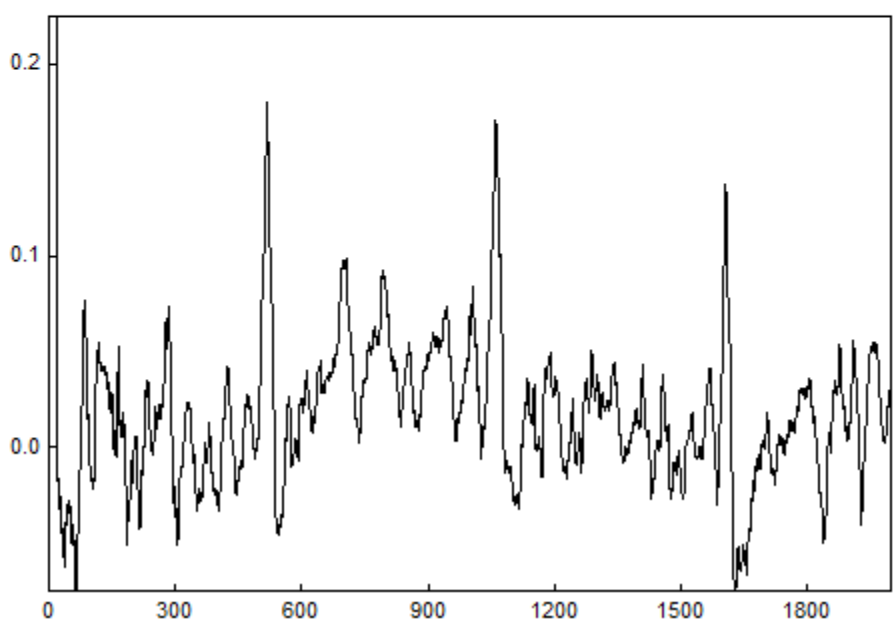
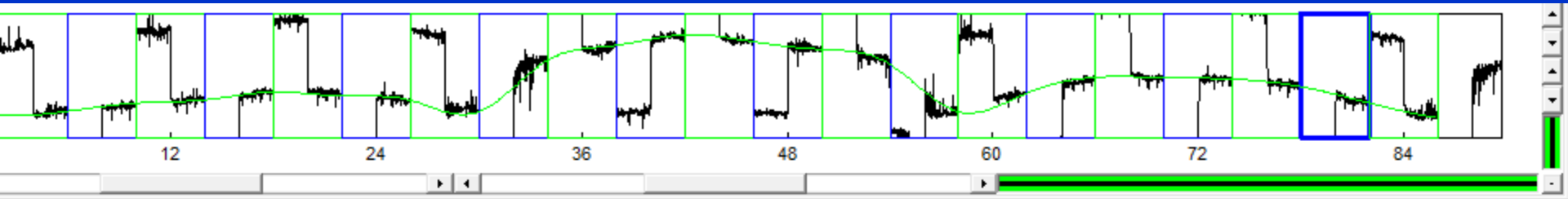
Standard Search processing: Mx: 158.4 SD: 212.14

Synthetic response + noise : Vp:1,Mx=5



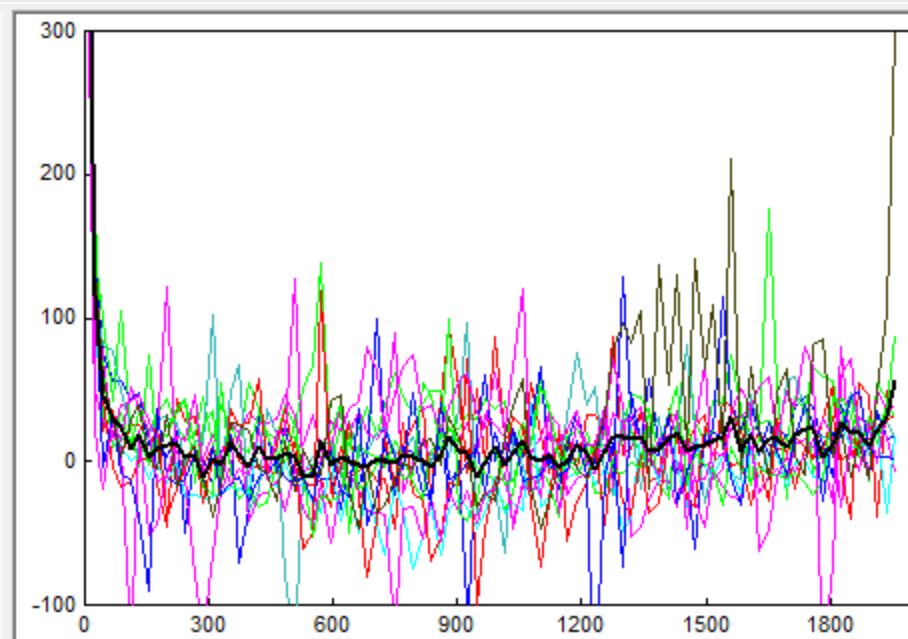
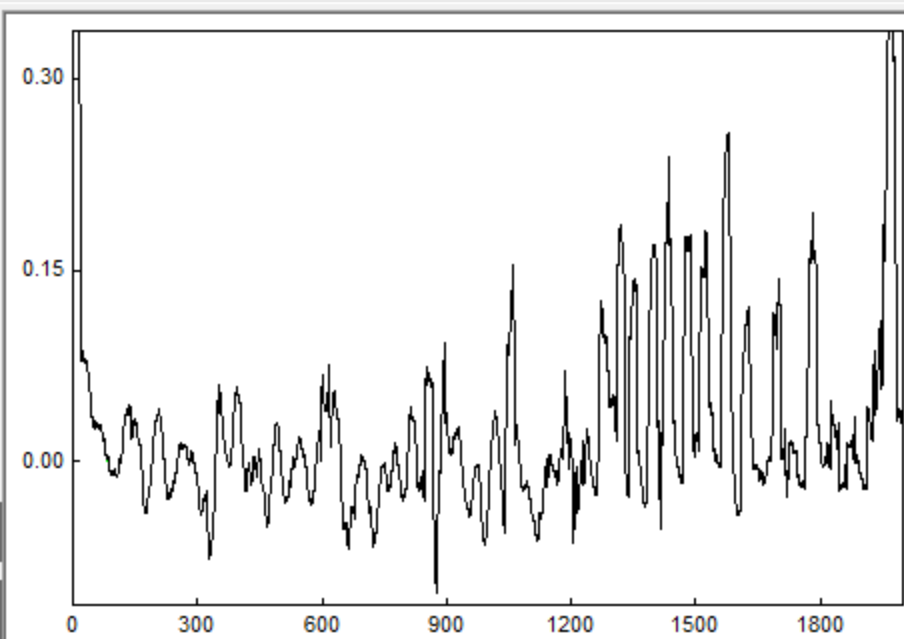
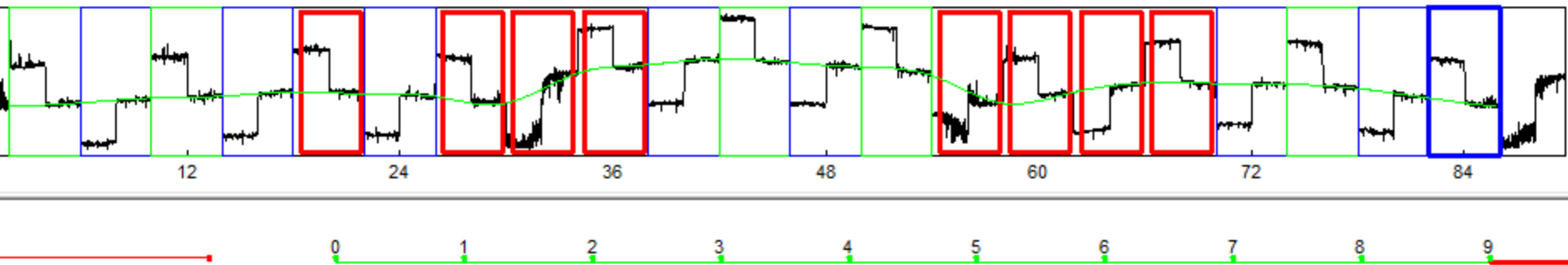
Standard Search processing: Mx: 10.6 SD: 16.94

Synthetic response + noise : Vp:1,Mx=5



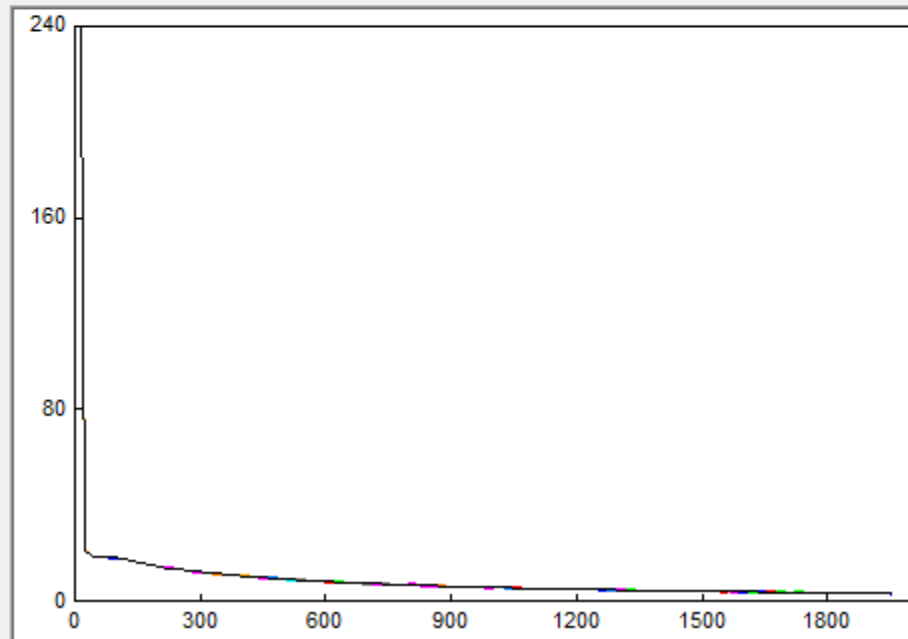
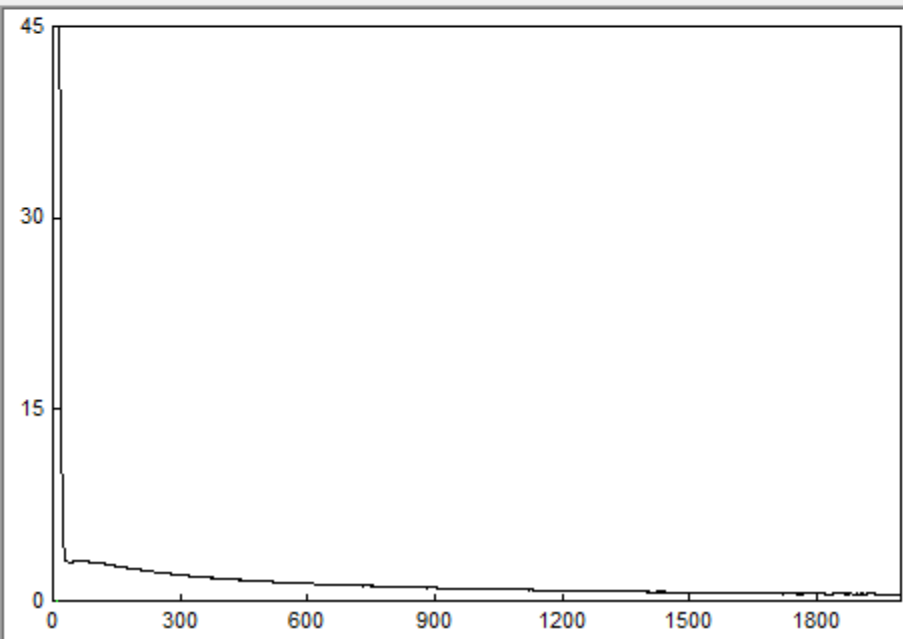
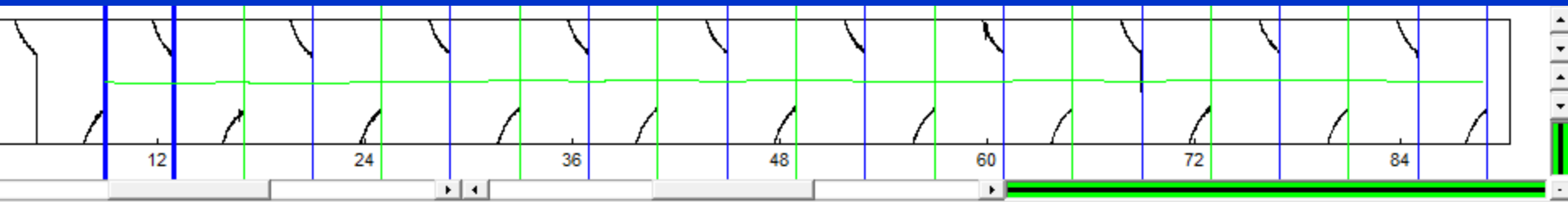
Standard Search processing: Mx: 12.4 SD: 45.33

Synthetic response + noise : Vp:1,Mx=5

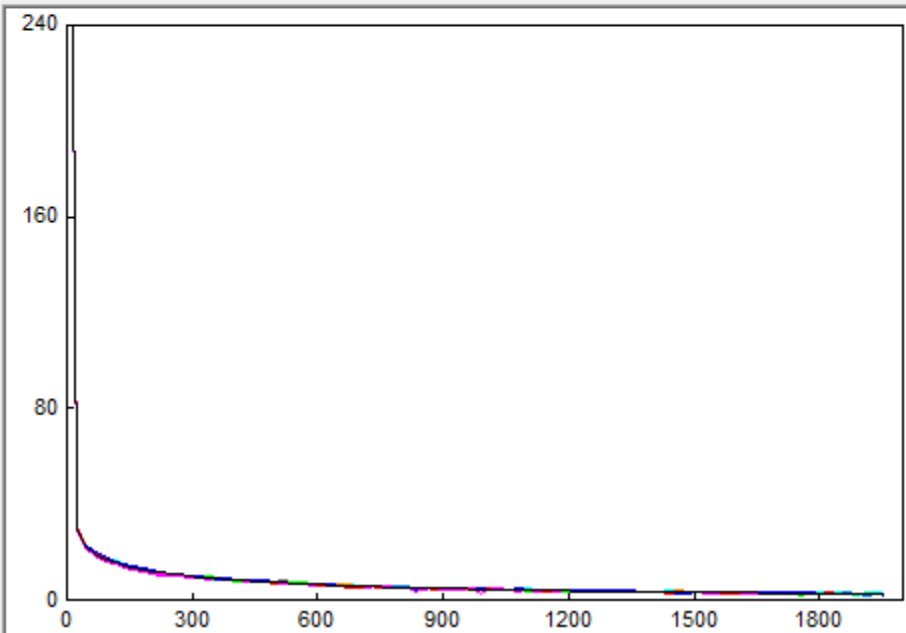
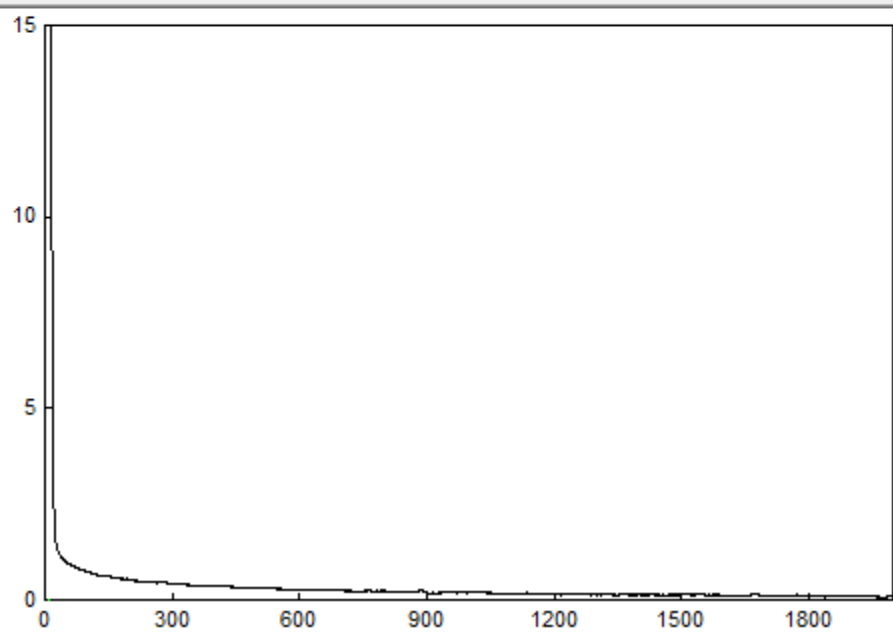
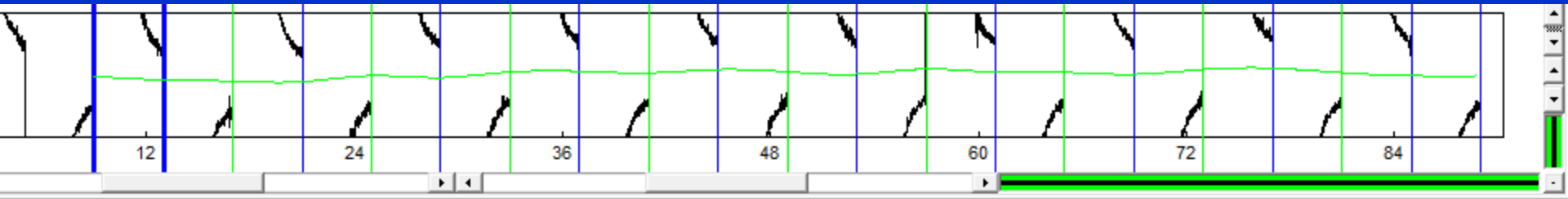


Remove repeats with max SD and Mx outliers: Mx: 4.8 SD: 15.88

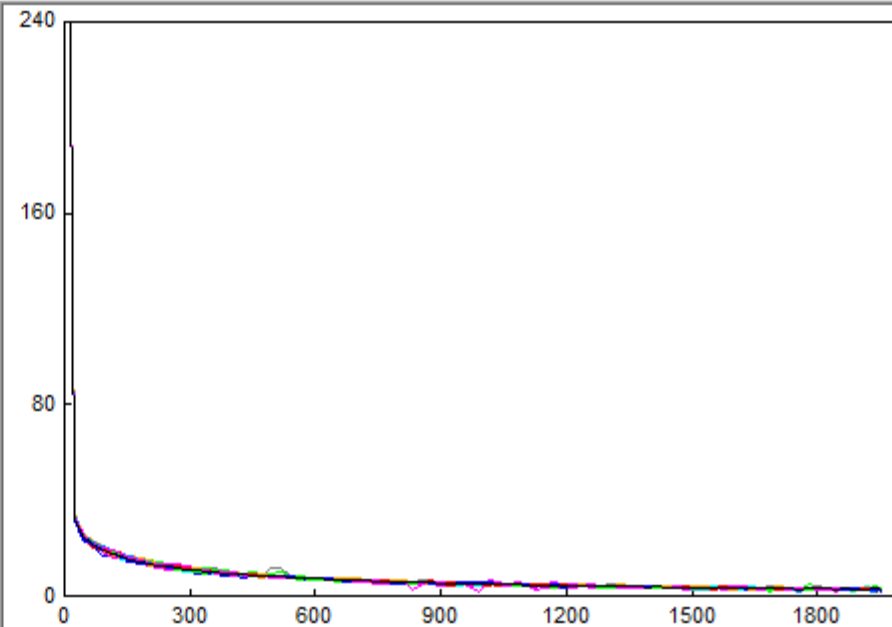
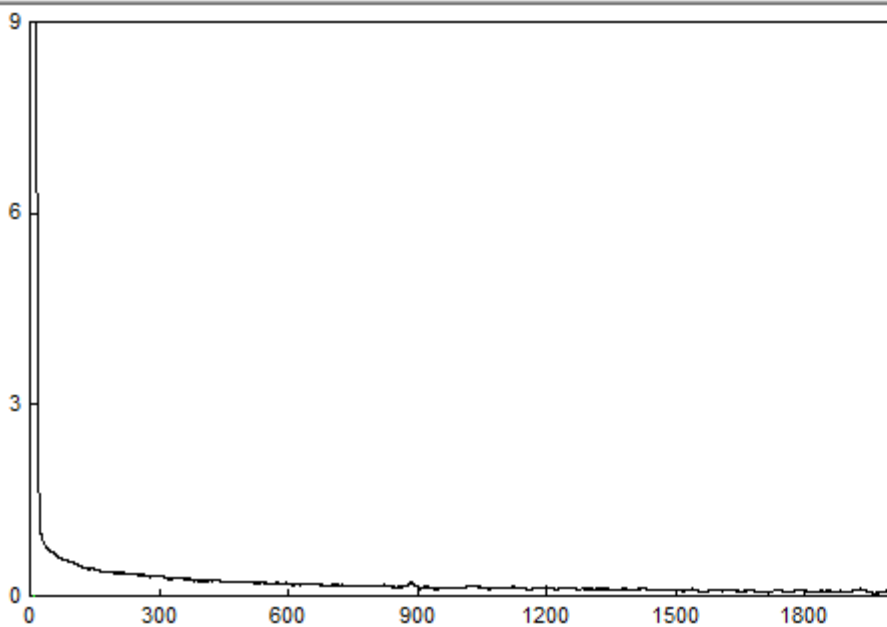
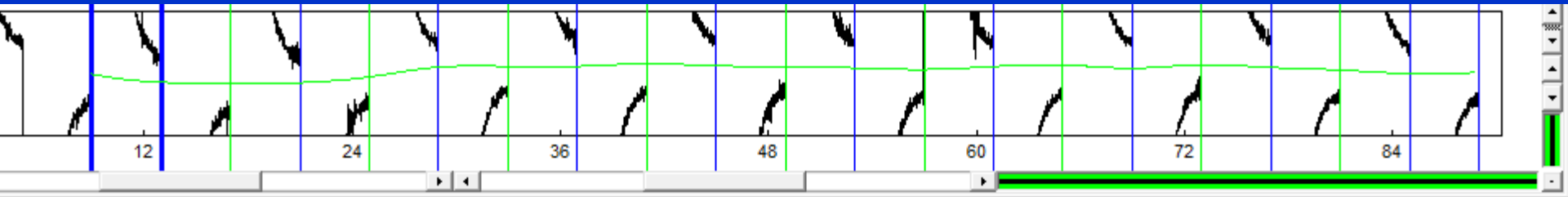
Real Data : $V_p:166.3, M_x=5.8, SD=0.035$



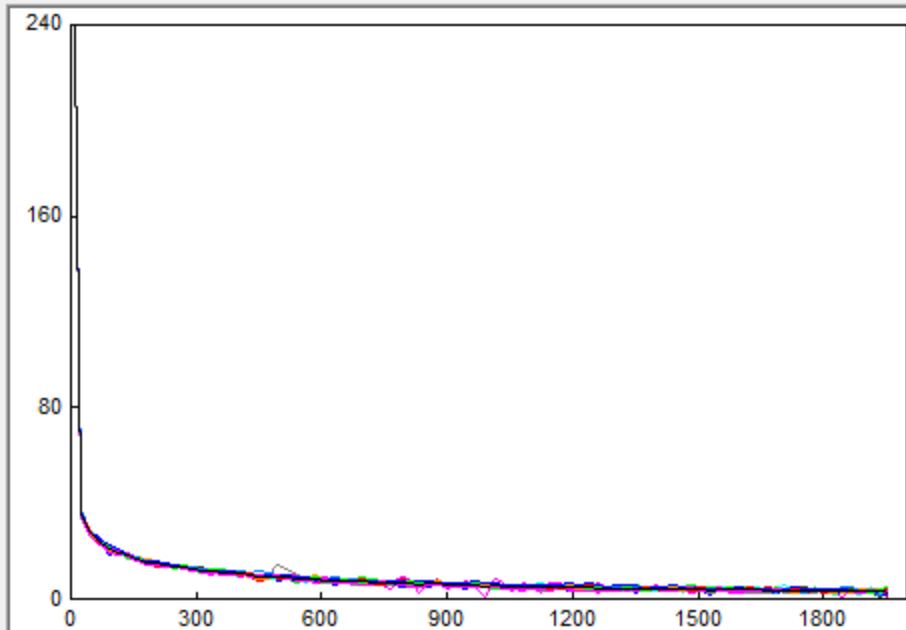
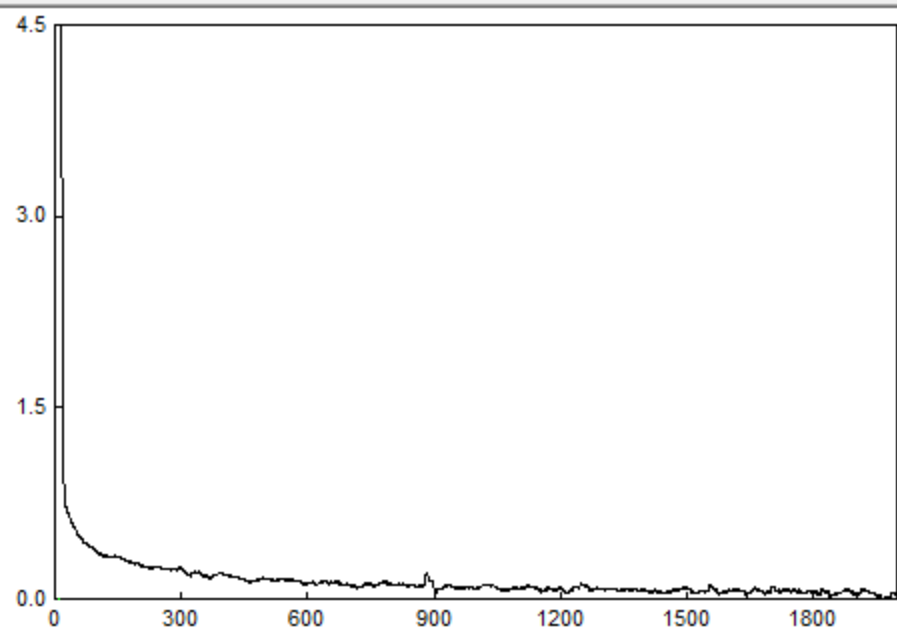
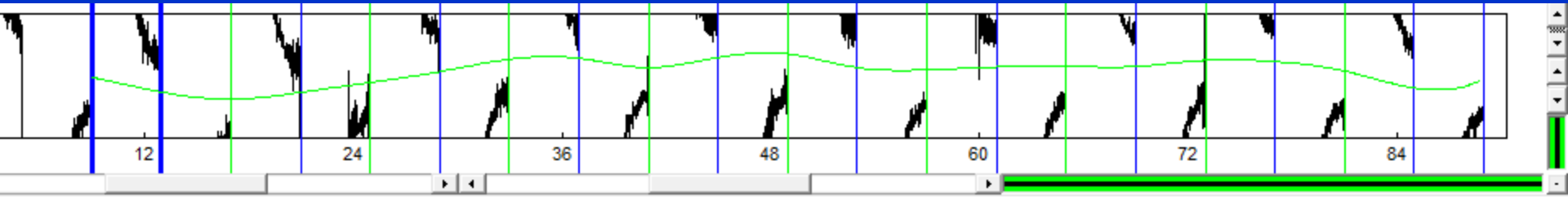
Real Data : $V_p:42.1, M_x=4.6, SD=0.124$



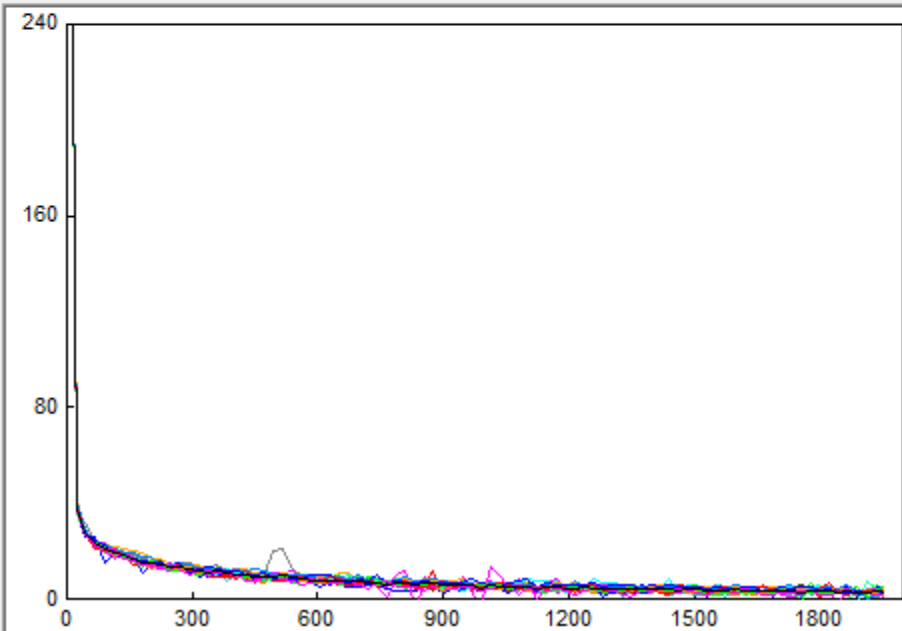
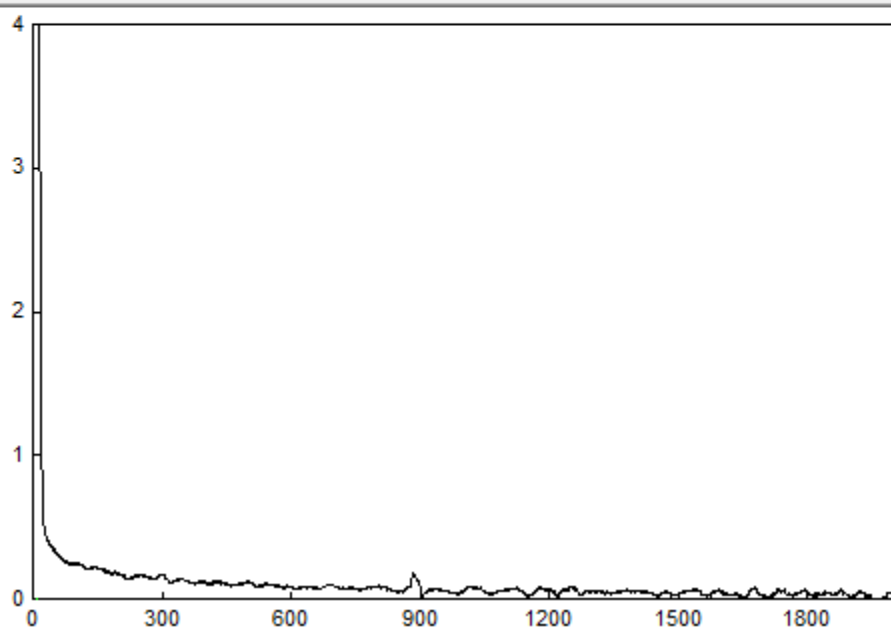
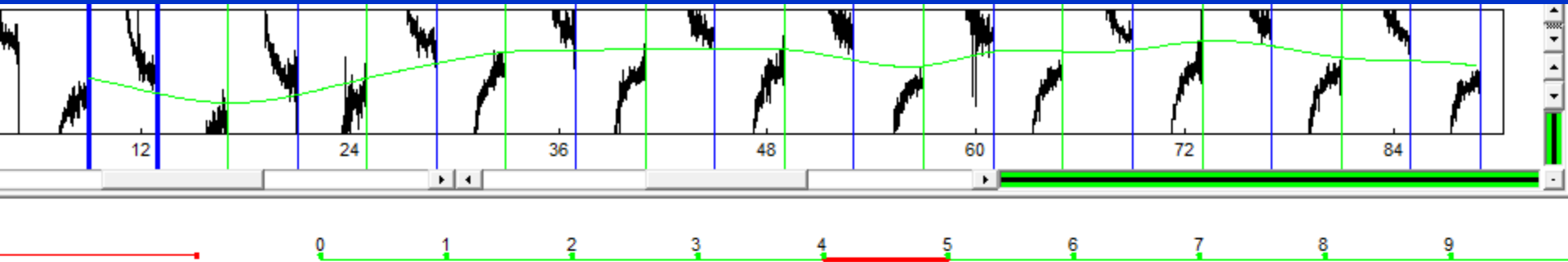
Real Data : $V_p:26.9, M_x=5.1, SD=0.18$



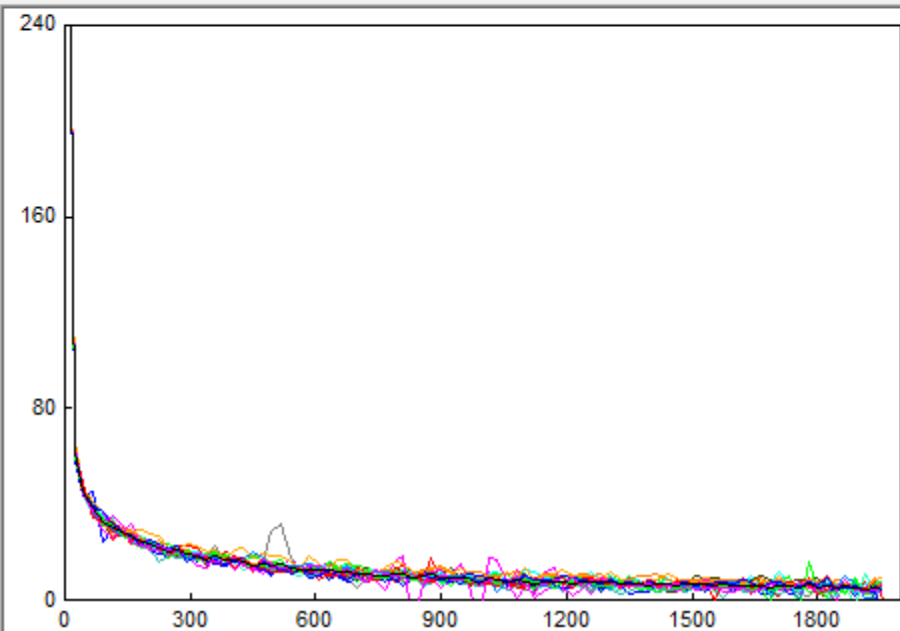
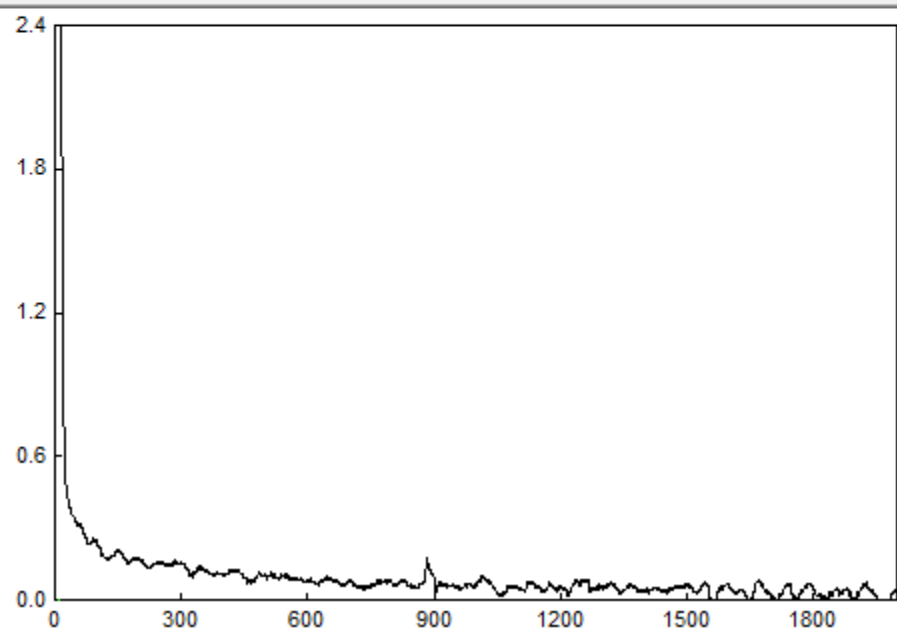
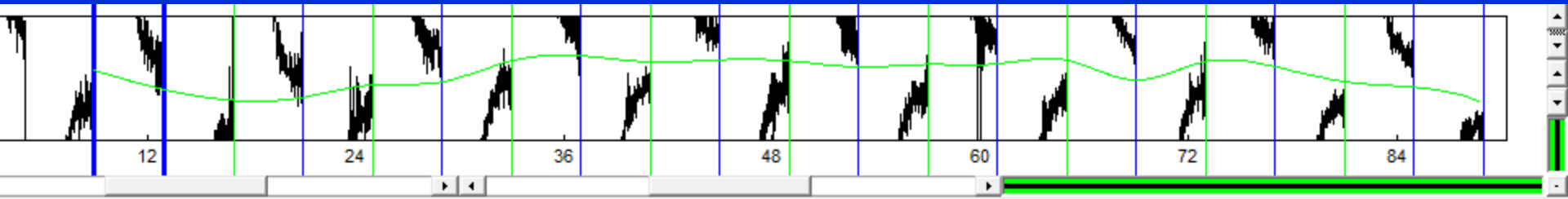
Real Data : $V_p:18.12, M_x=5.7, SD=0.42$



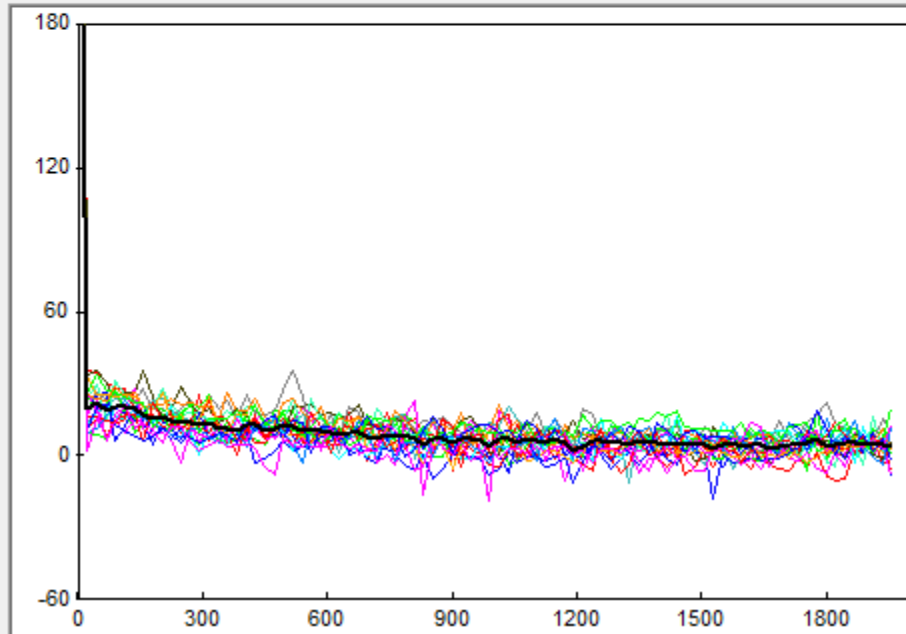
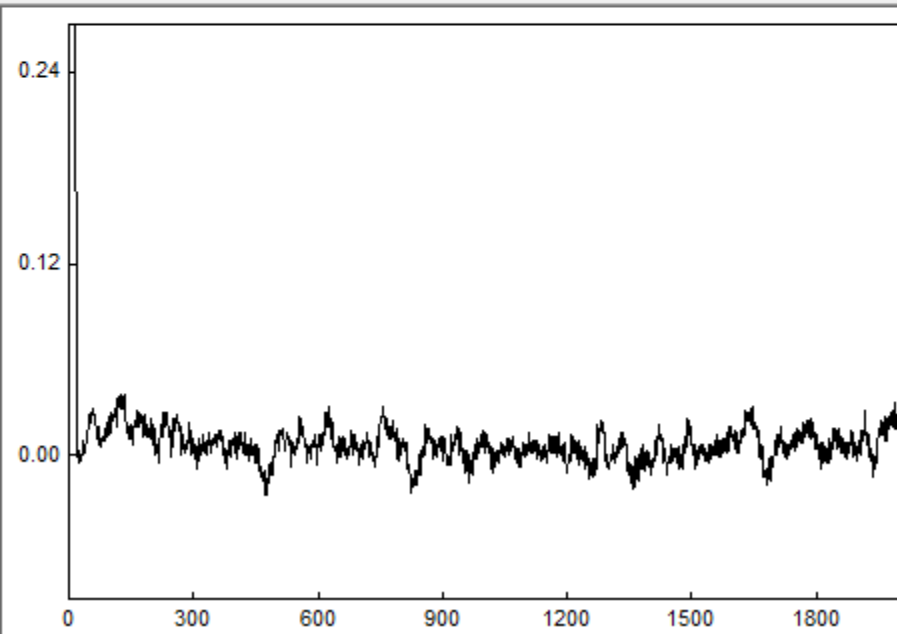
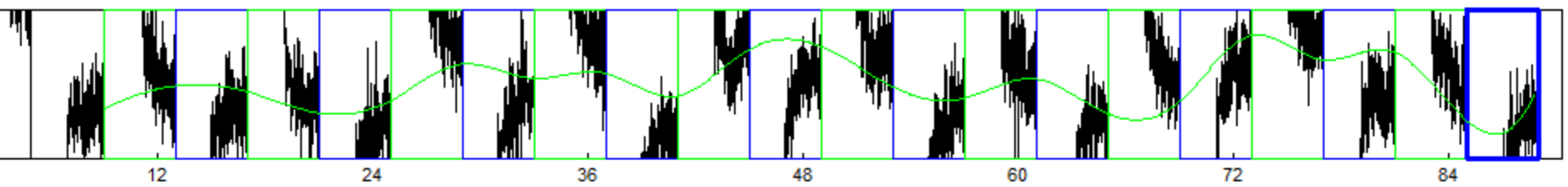
Real Data : $V_p:11.7, M_x=5.5, SD=0.63$



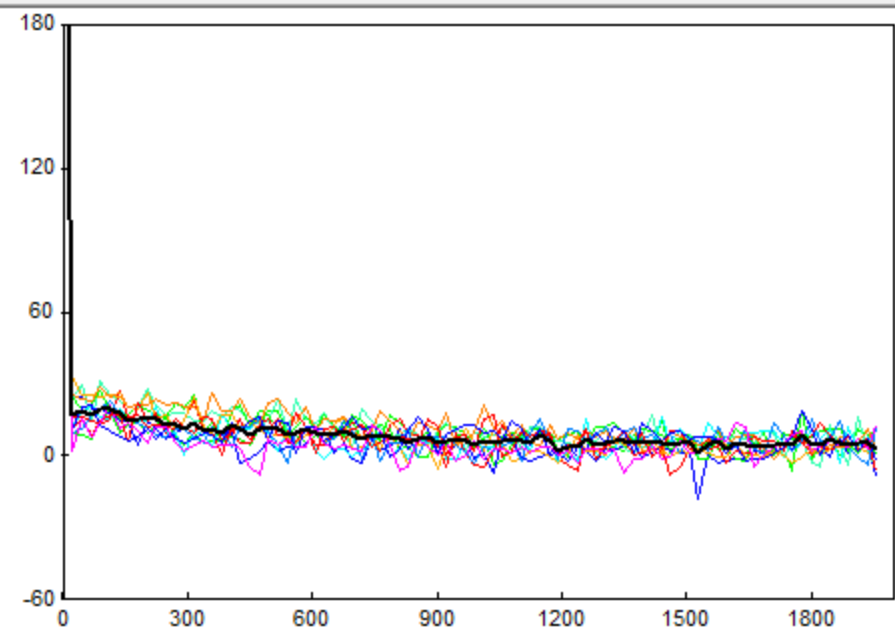
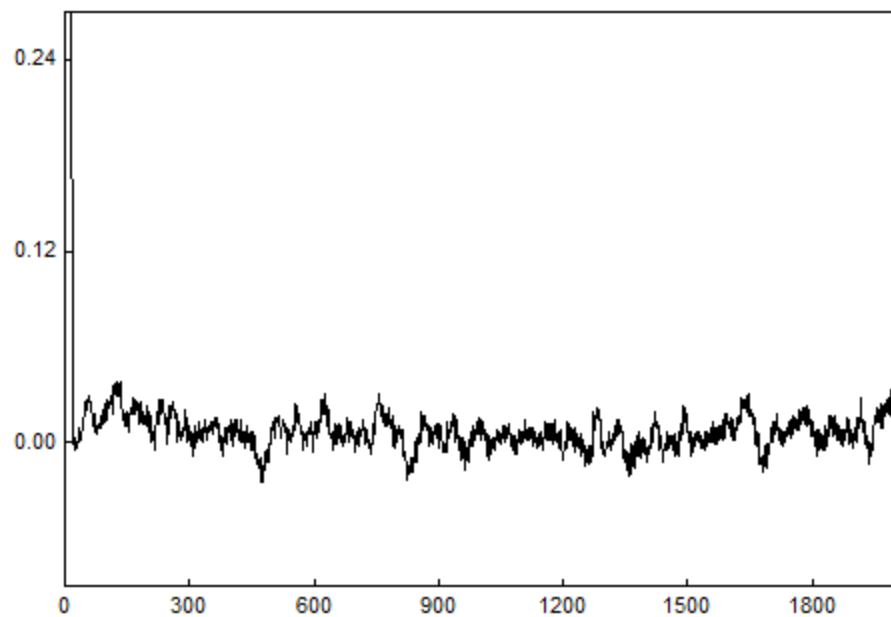
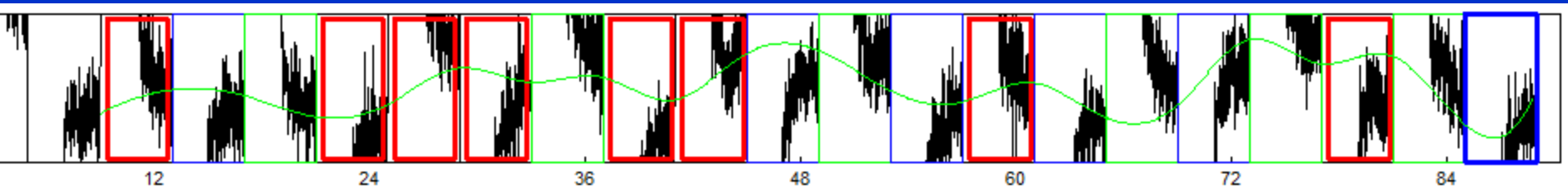
Real Data : $V_p:7.1, M_x=8.8, SD=1.06$



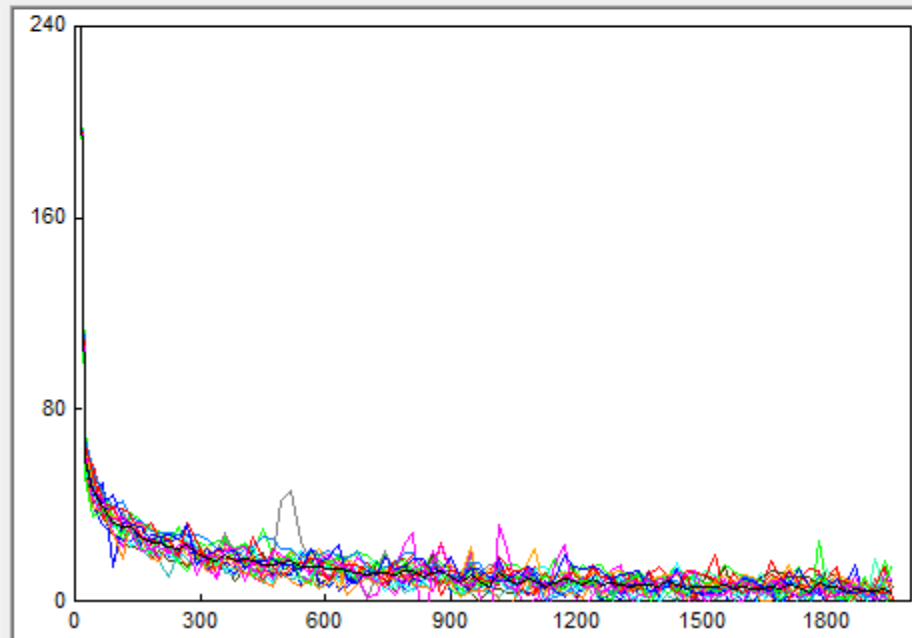
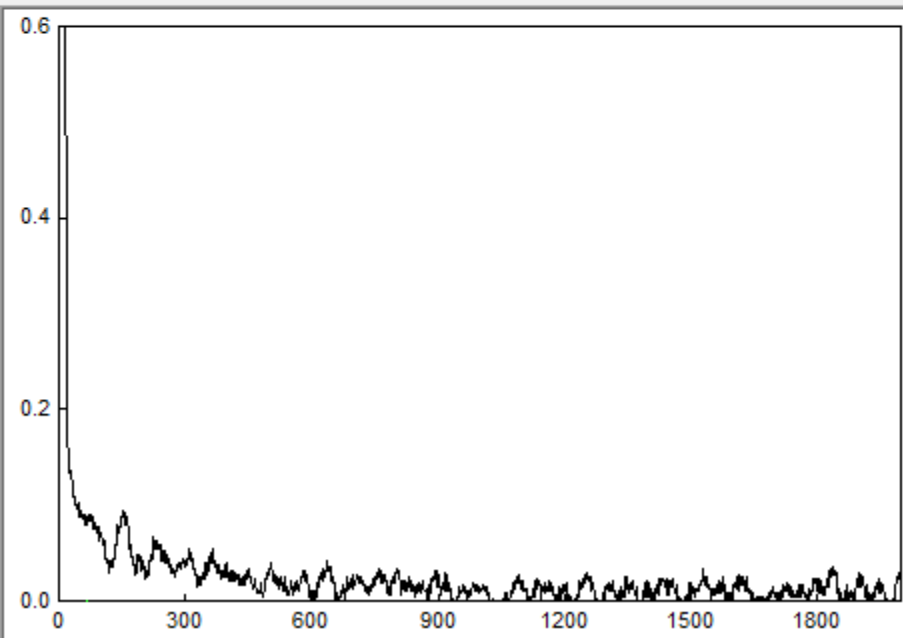
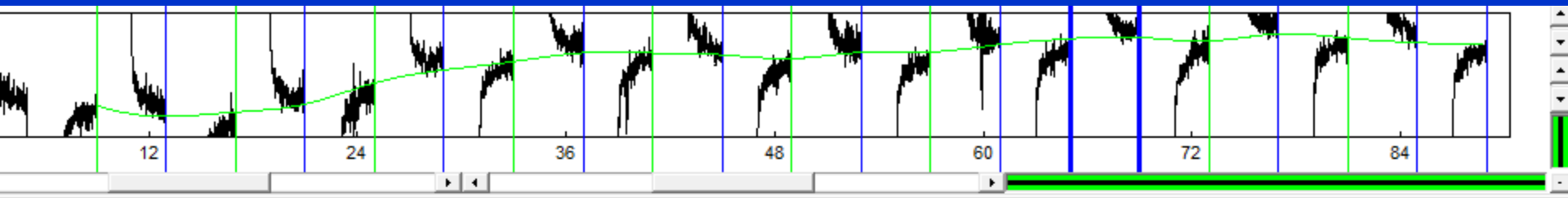
Real Data : $V_p:1.5, M_x=6.4, SD=3.22$



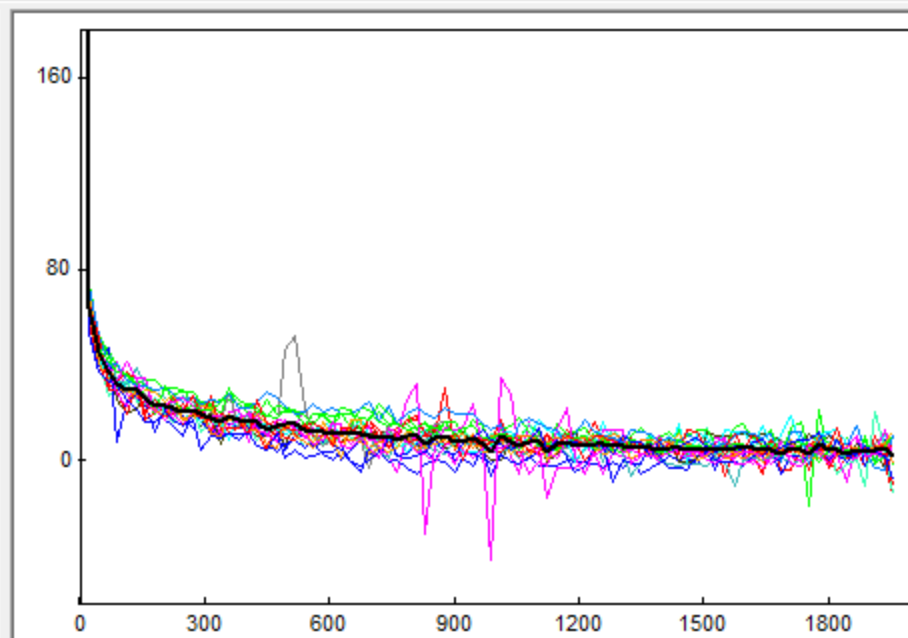
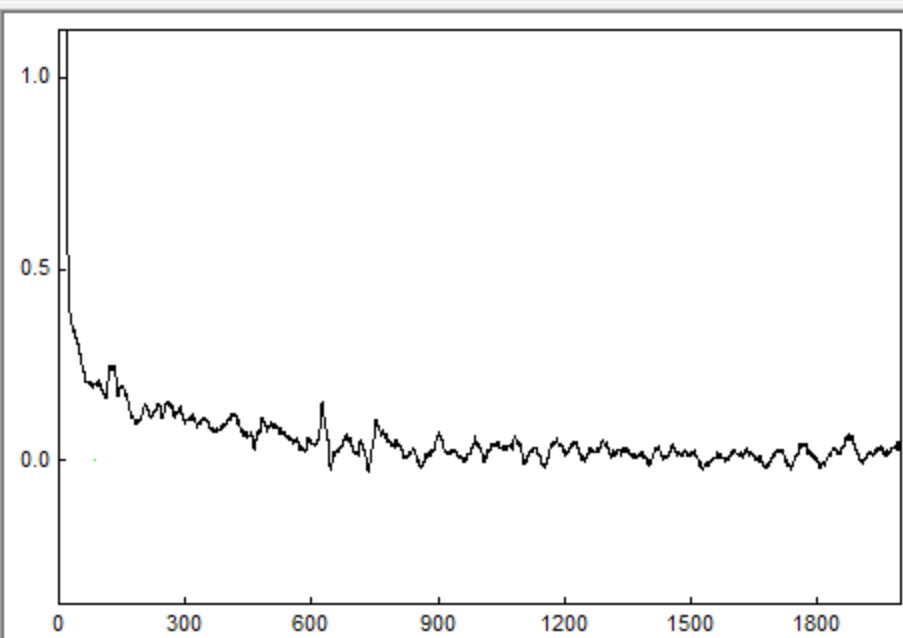
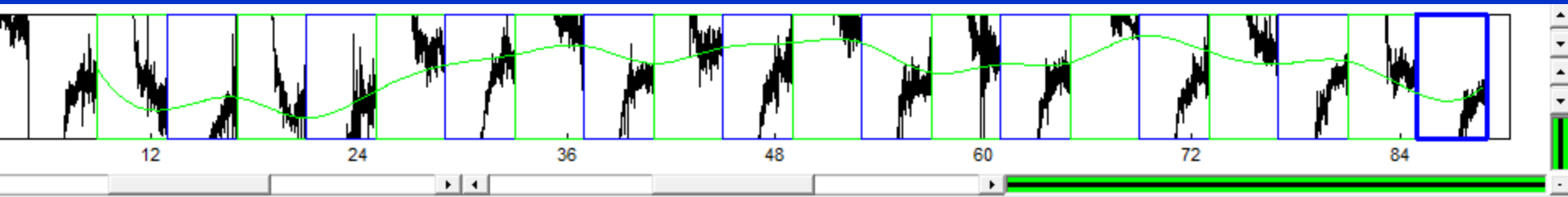
Real Data : $V_p:1.5, M_x=6.3, SD=2.57$



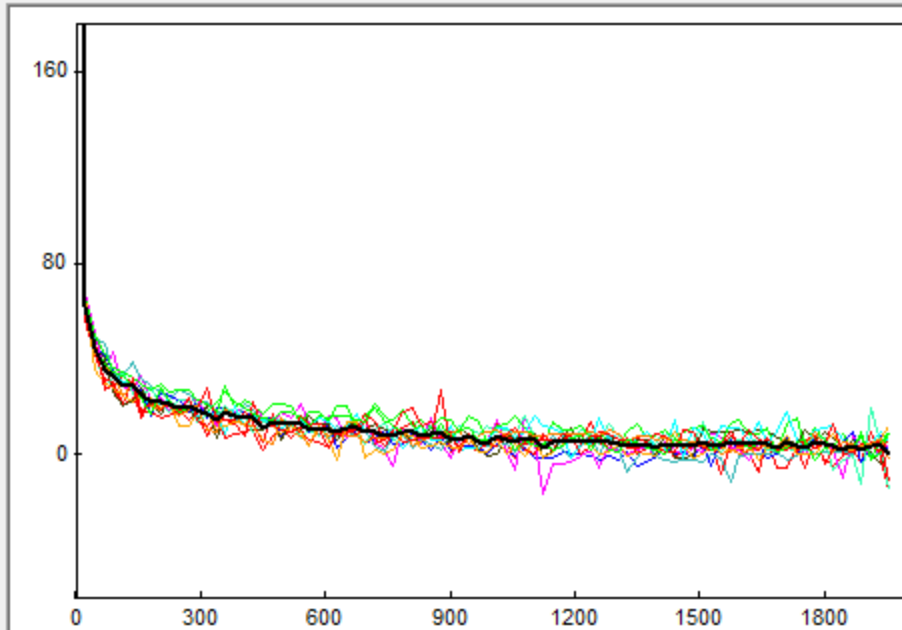
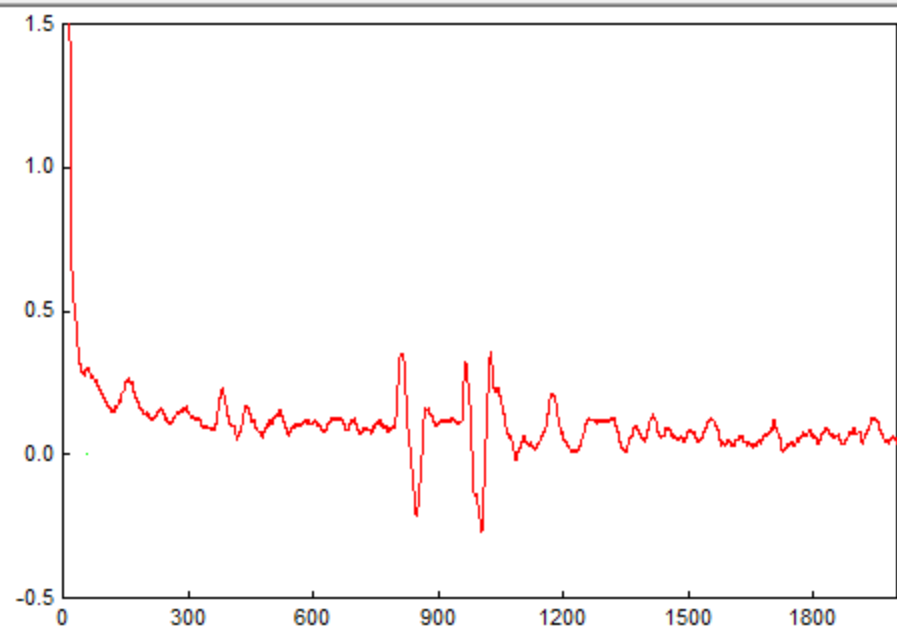
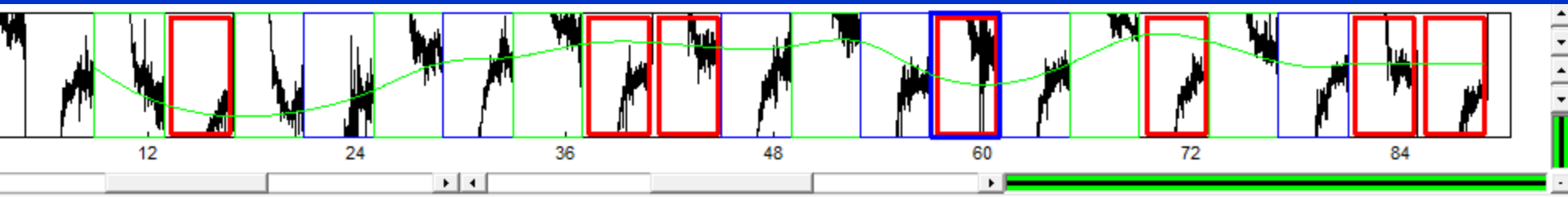
Real Data : $V_p:2.25, M_x=9.4, SD=1.97$



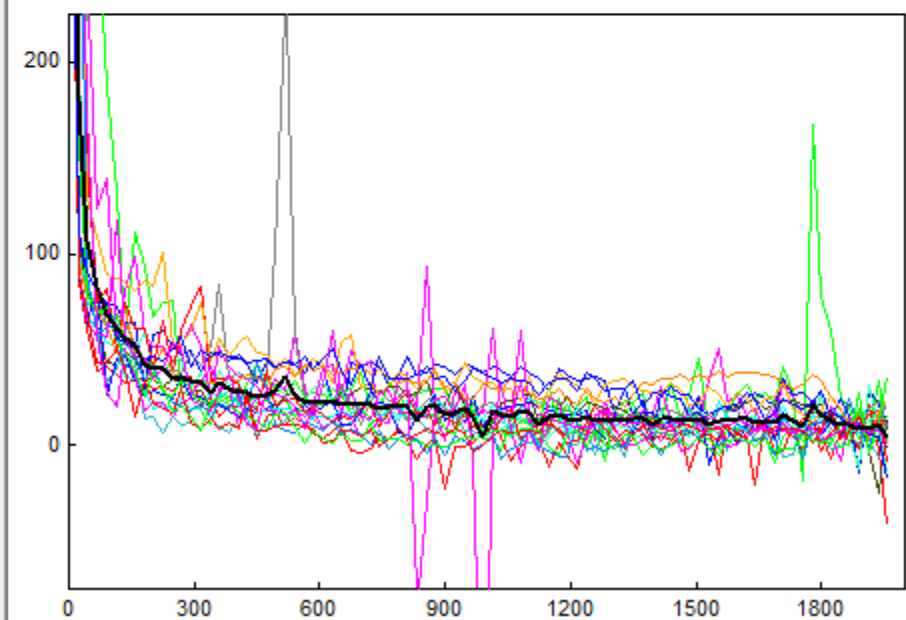
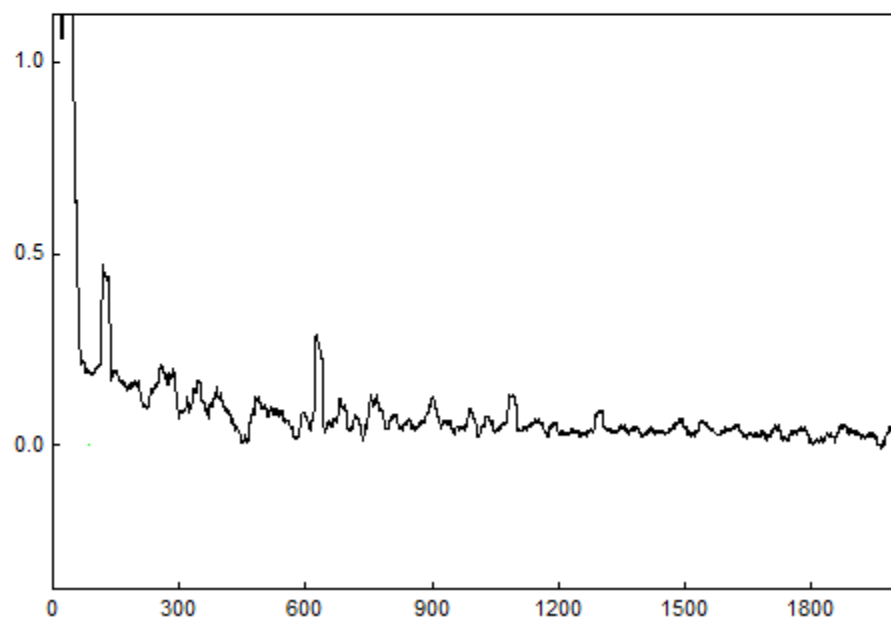
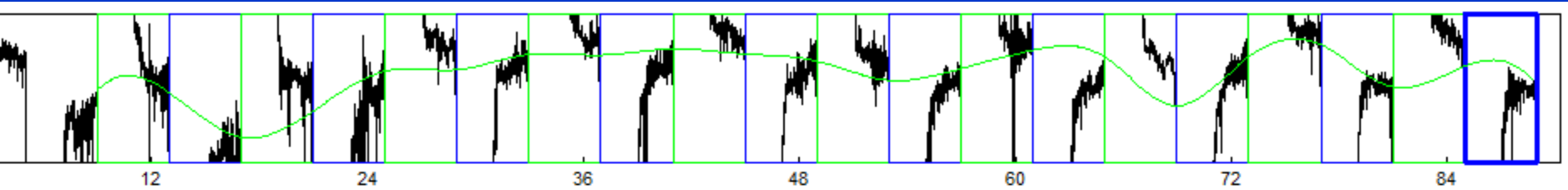
Real Data : $V_p:6.49, M_x=7.7, SD=3.59$



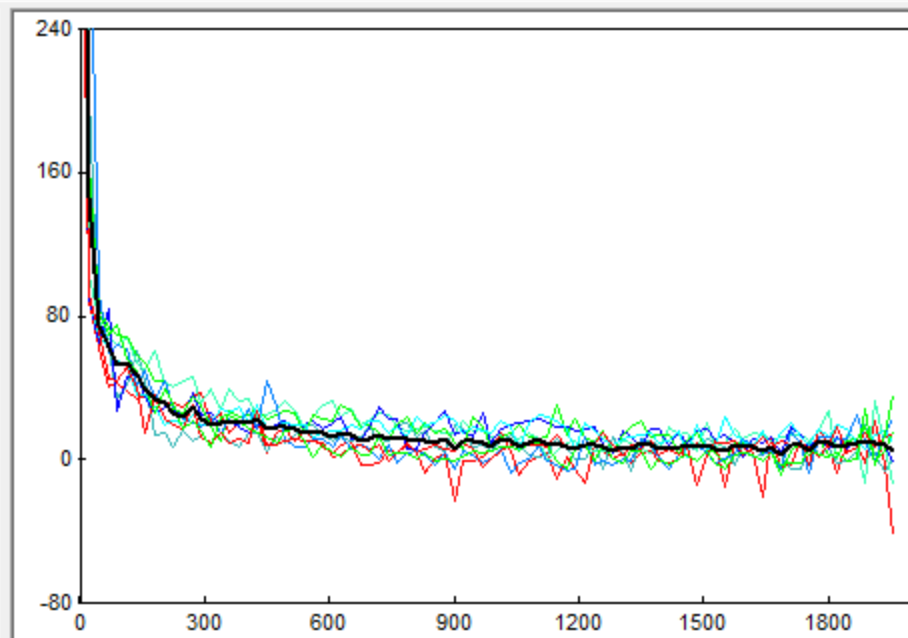
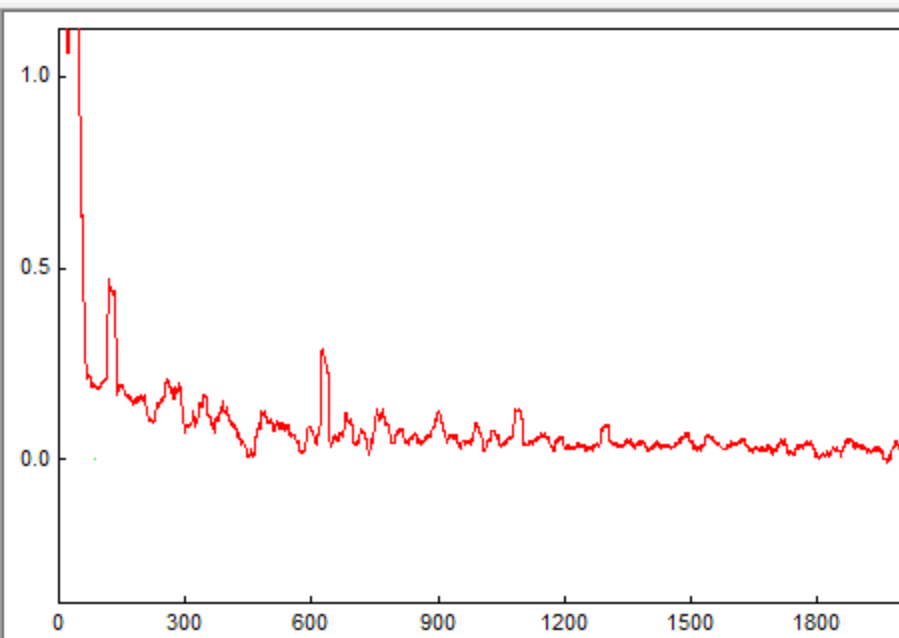
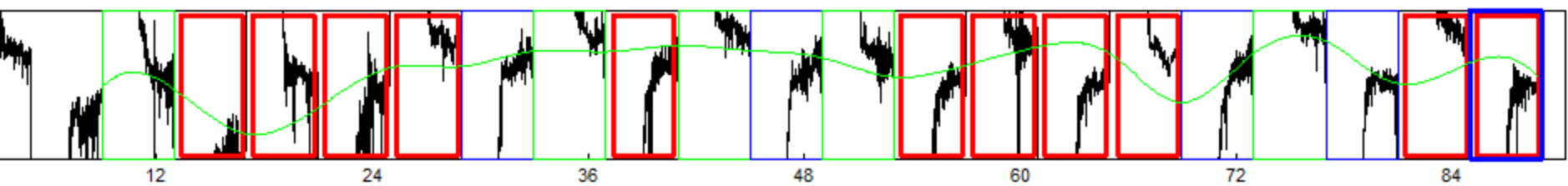
Real Data : $V_p:5.48, M_x=6.7, SD=2.51$



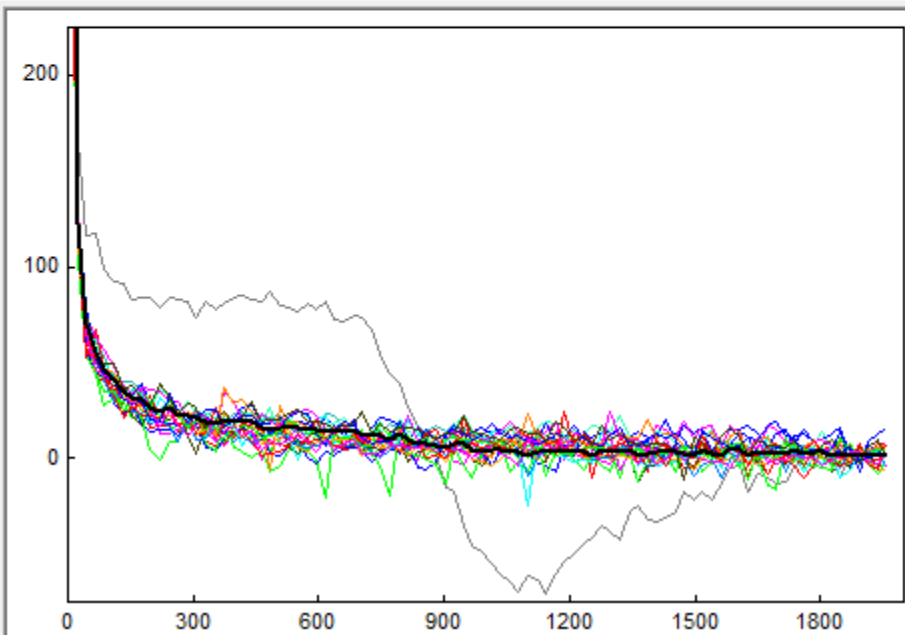
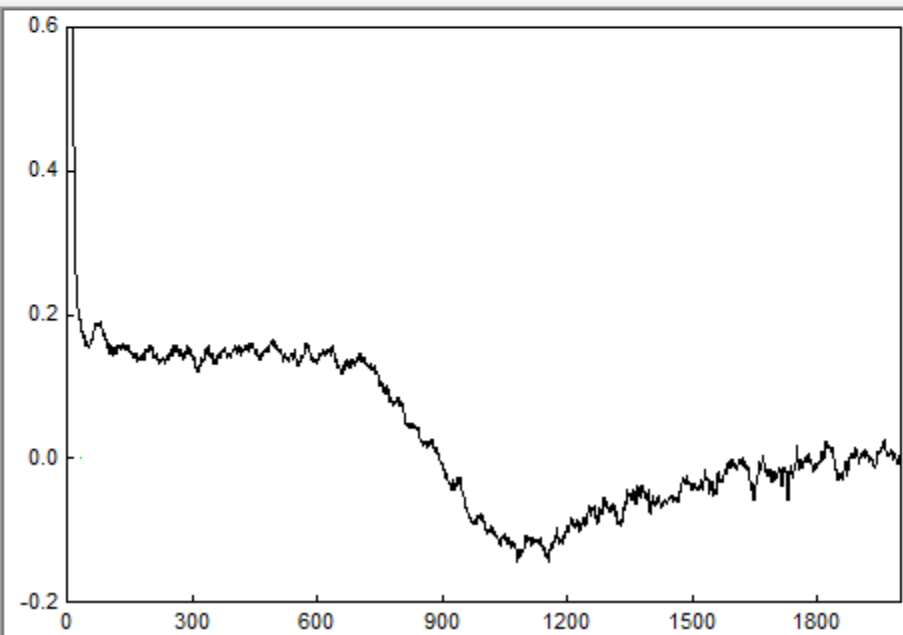
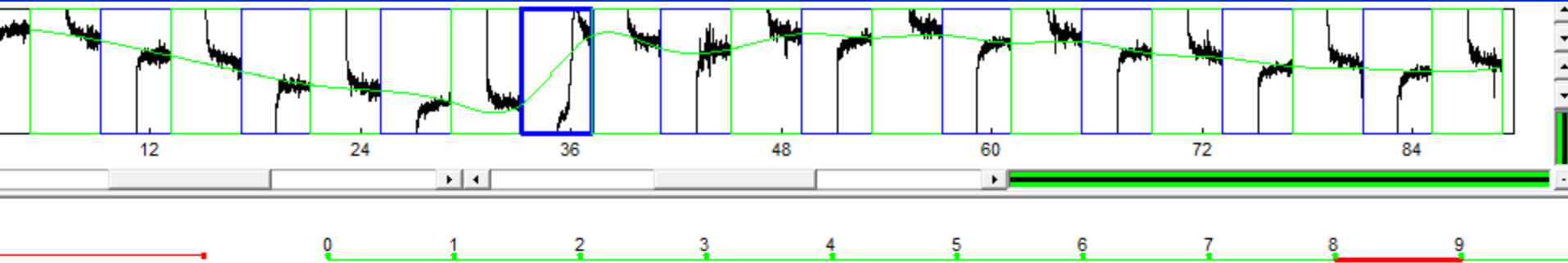
Real Data : $V_p:3.48, M_x=16.5, SD=10.6$



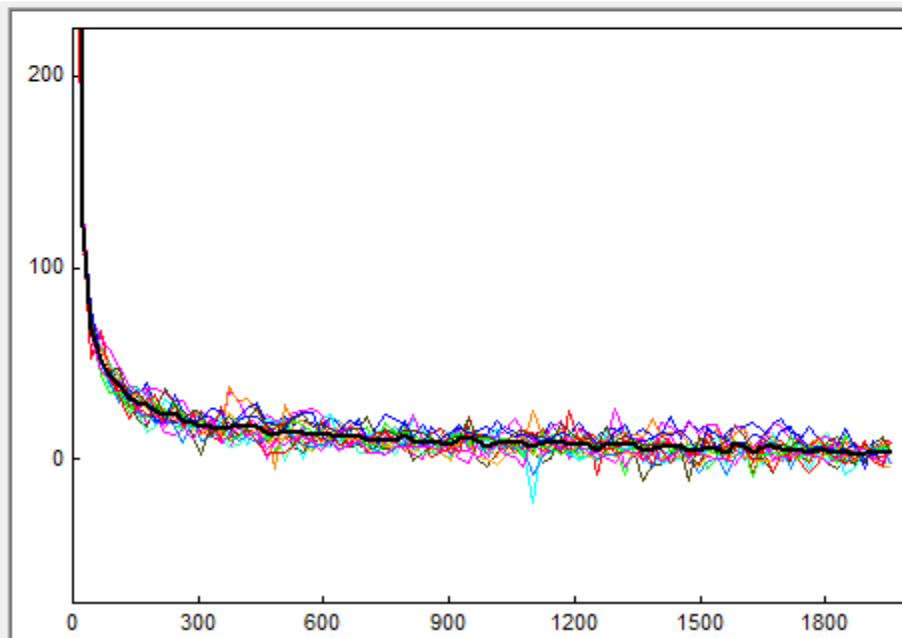
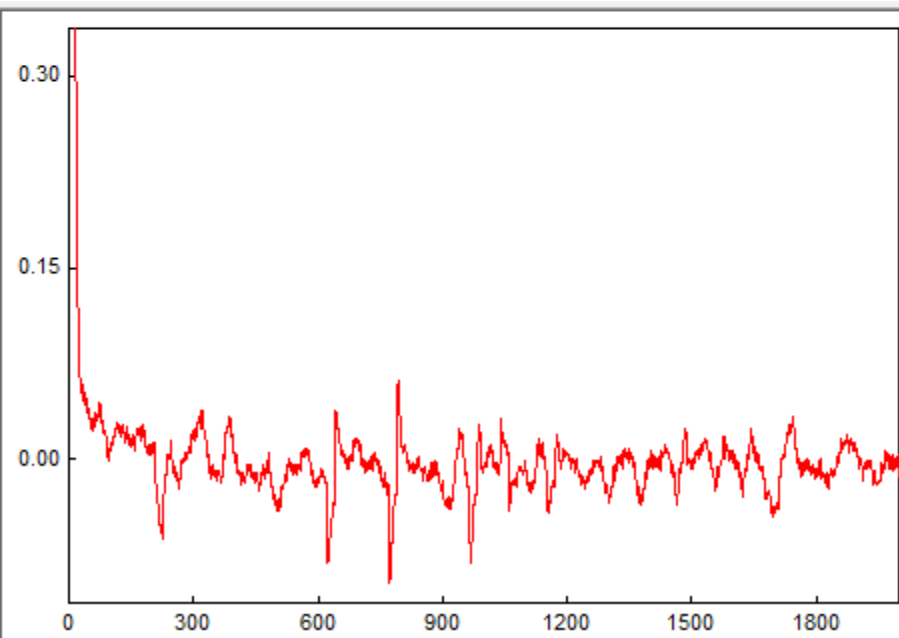
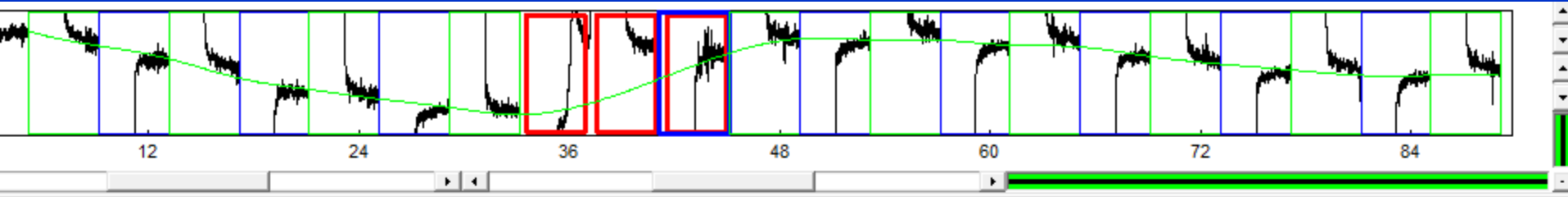
Real Data : $V_p:3.55, M_x=9.4, SD=6.3$



Real Data : $V_p:1.85, M_x=6.6, SD=5.43$



Real Data : $V_p:1.85, M_x=8.9, SD=3.03$



Real Data : Mx

