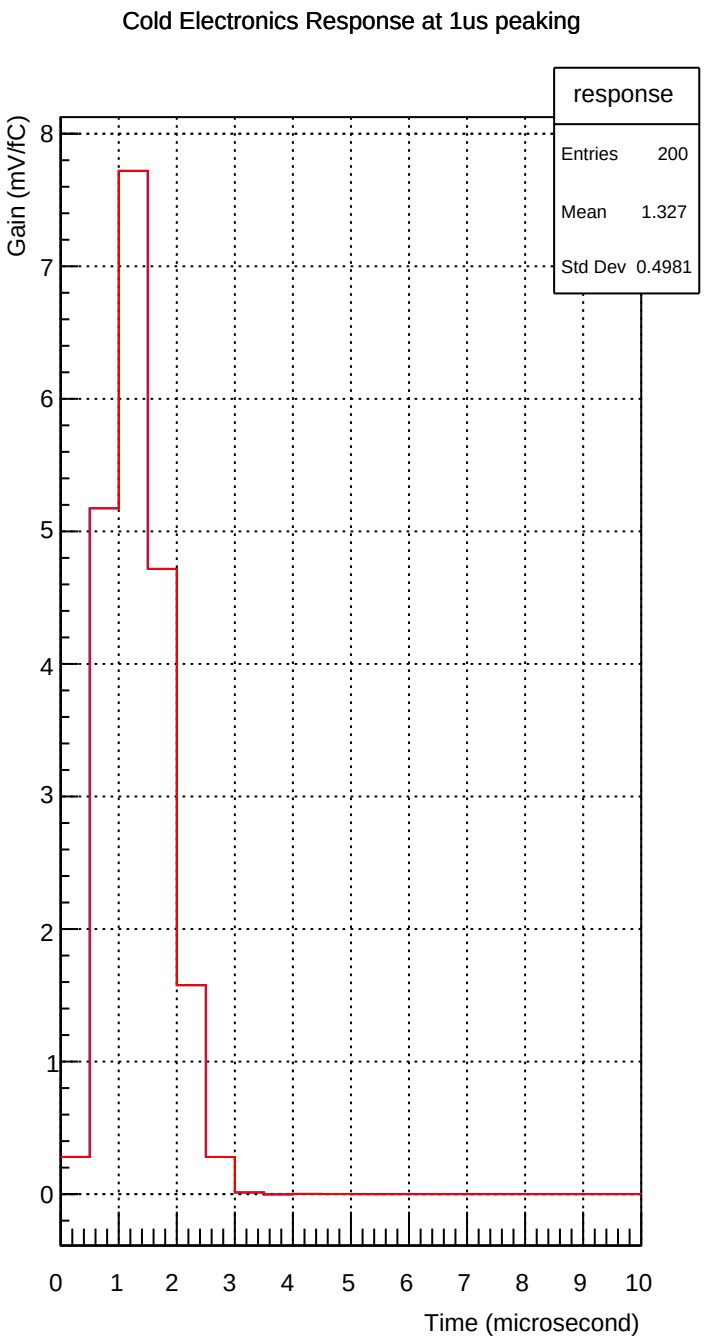
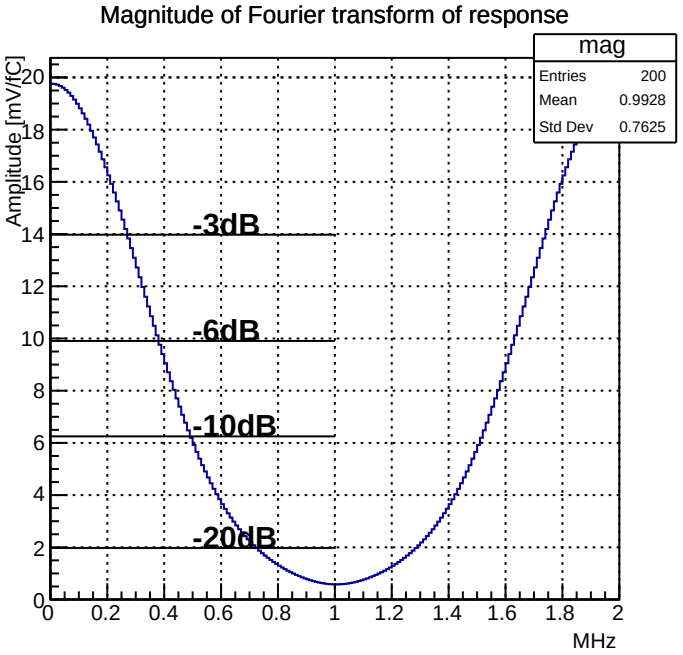
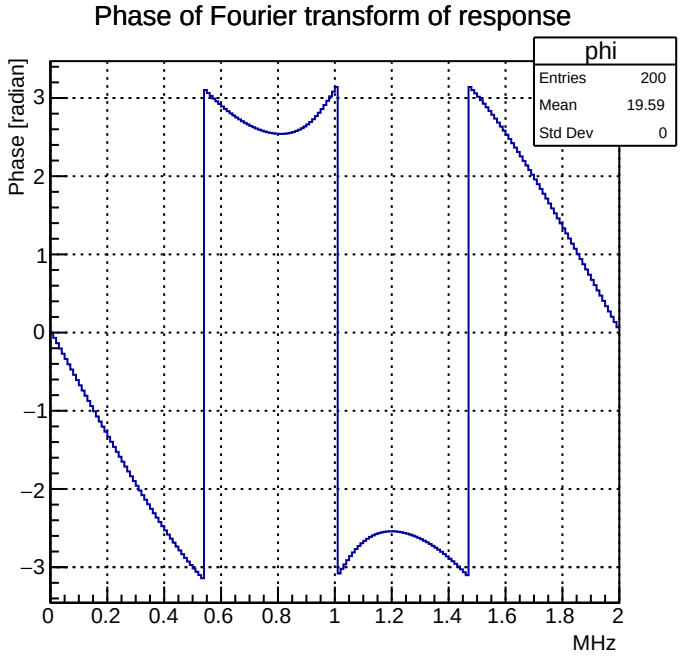
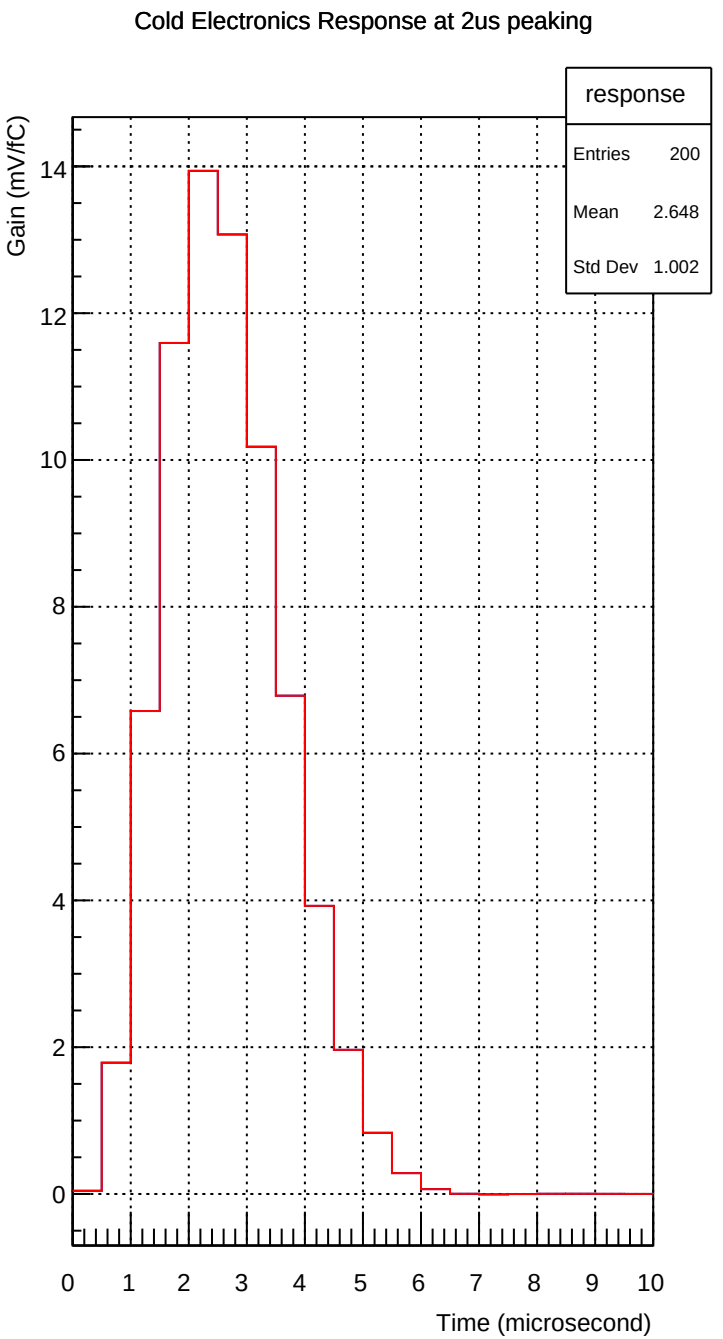
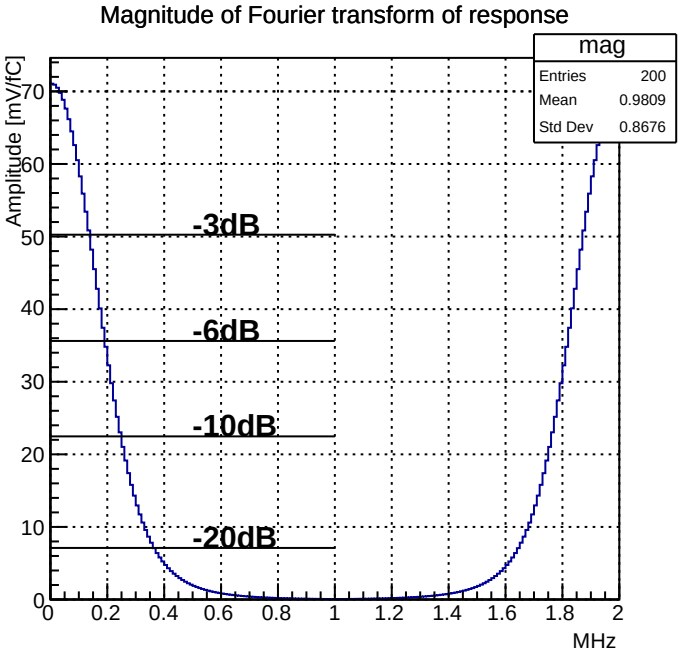
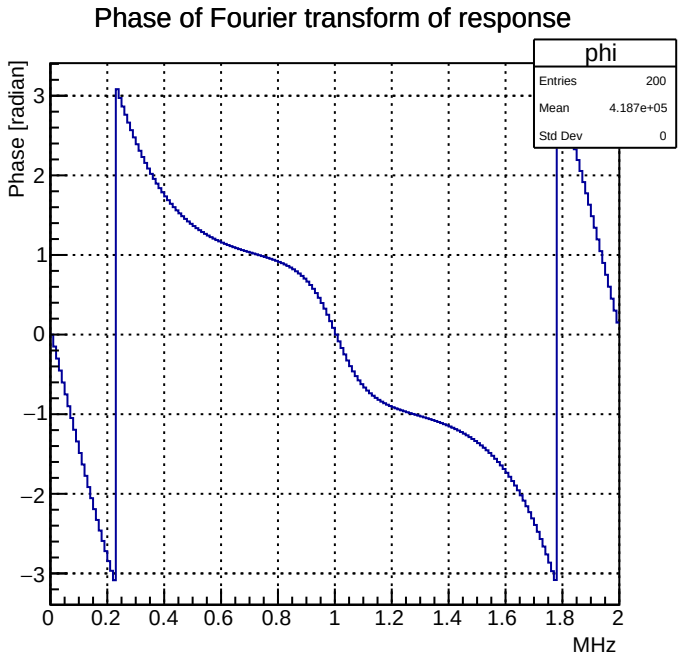

Cold Electronics Response at 1us peaking
response
Entries 200
Mean 1.327
Std Dev 0.4981
Gain (mV/fC)
Time (microsecond)

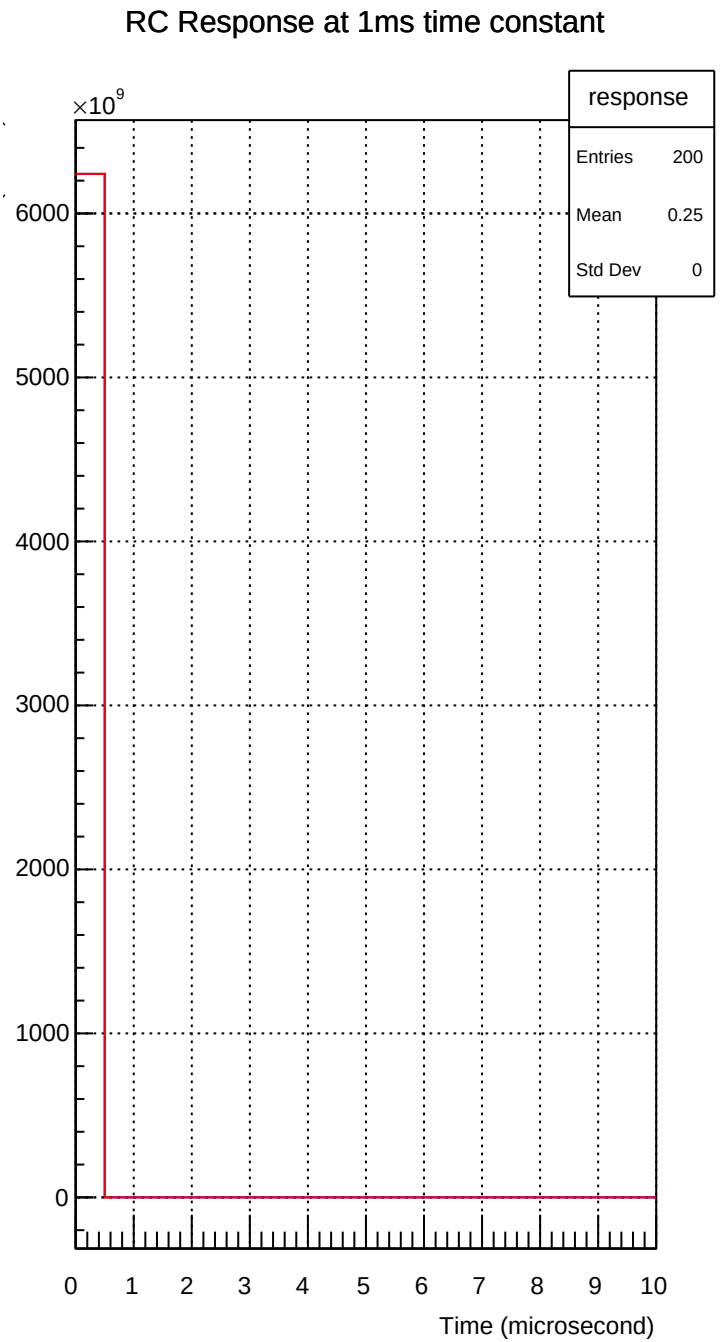

Magnitude of Fourier transform of response
mag
Entries 200
Mean 0.9928
Std Dev 0.7625
Amplitude [mV/fC]
-3dB
-6dB
-10dB
-20dB
MHz

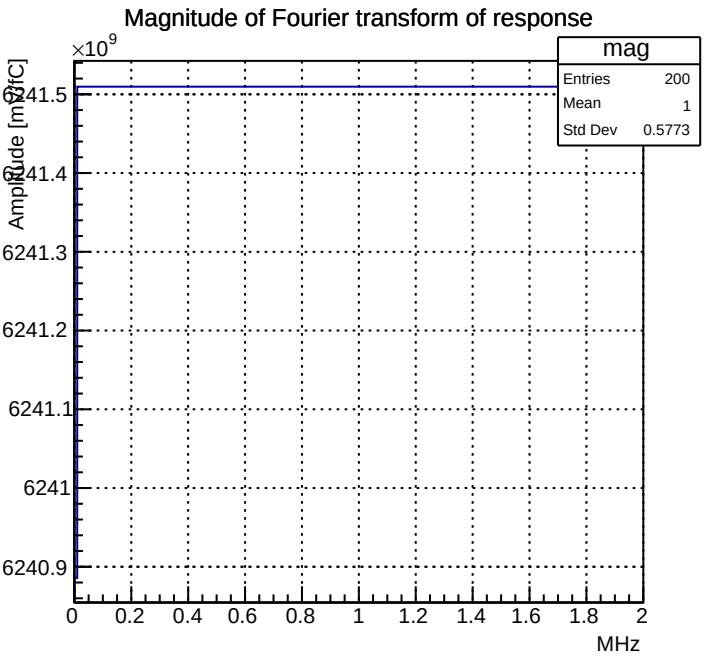

Phase of Fourier transform of response
phi
Entries 200
Mean 19.59
Std Dev 0
Phase [radian]
MHz

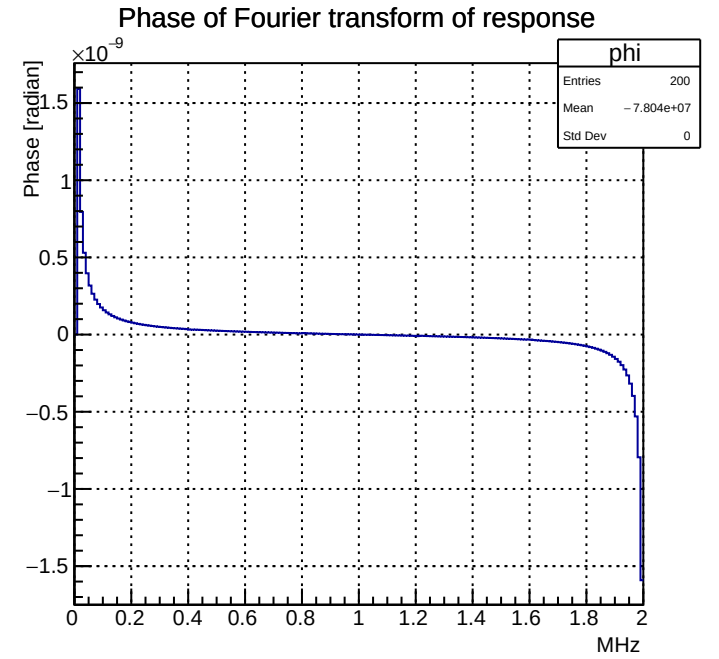

Cold Electronics Response at 2us peaking
response
Entries 200
Mean 2.648
Std Dev 1.002
Gain (mV/fC)
Time (microsecond)

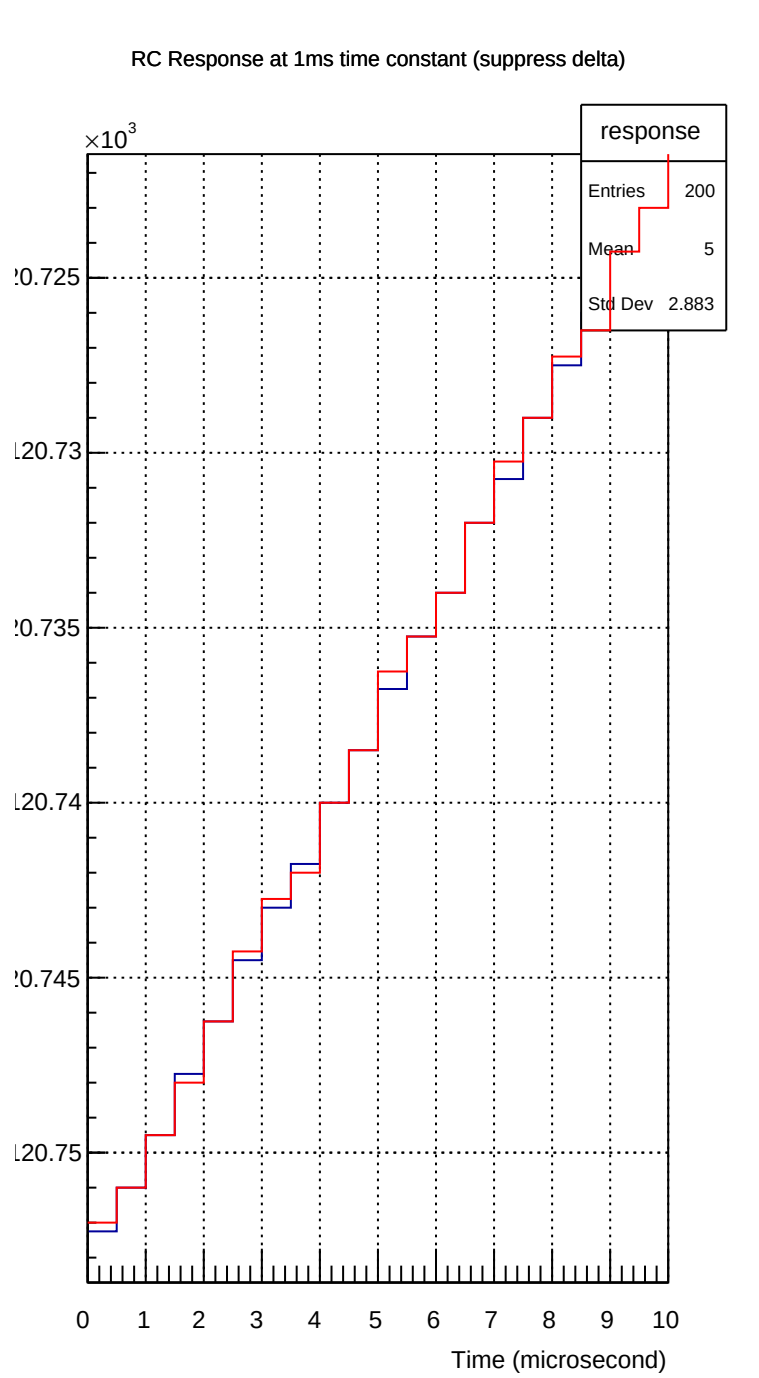

Magnitude of Fourier transform of response
mag
Entries 200
Mean 0.9809
Std Dev 0.8676
Amplitude [mV/fC]
-3dB
-6dB
-10dB
-20dB
MHz

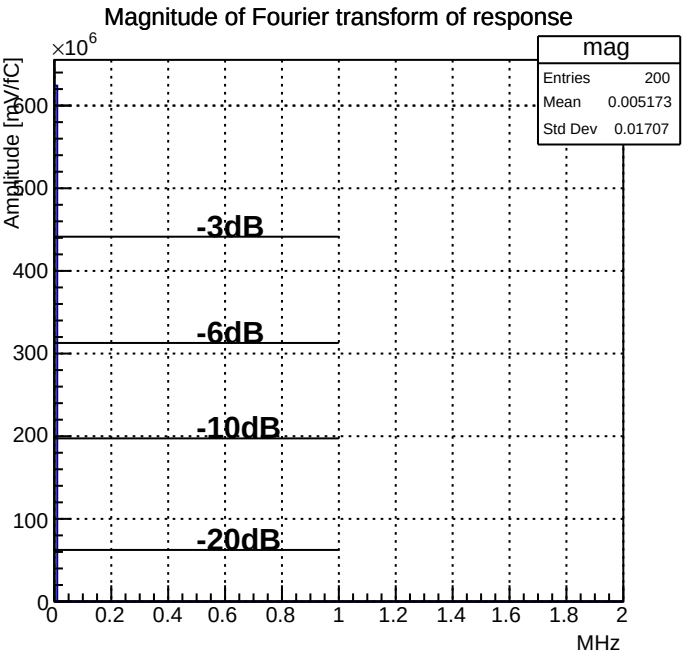

Phase of Fourier transform of response
phi
Entries 200
Mean 4.187e+05
Std Dev 0
Phase [radian]
MHz

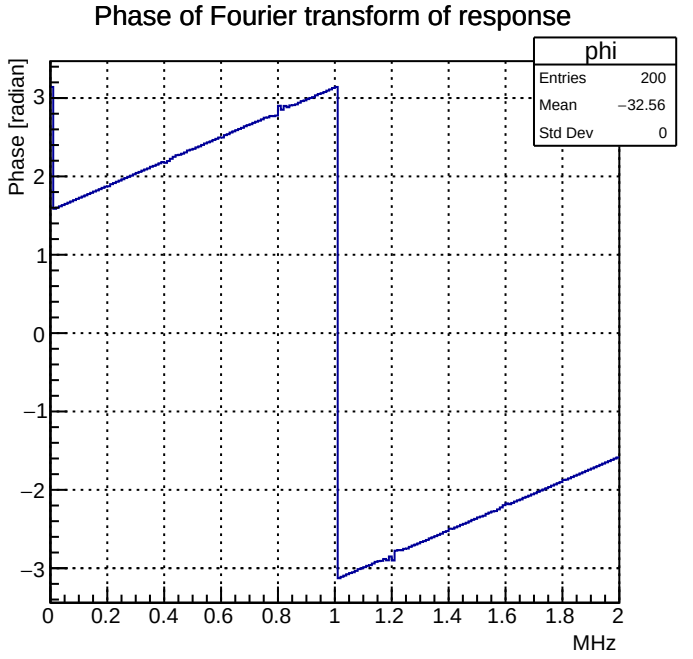

RC Response at 1ms time constant
response
Entries 200
Mean 0.25
Std Dev 0
×10^9
6000
5000
4000
3000
2000
1000
0
0 1 2 3 4 5 6 7 8 9 10
Time (microsecond)

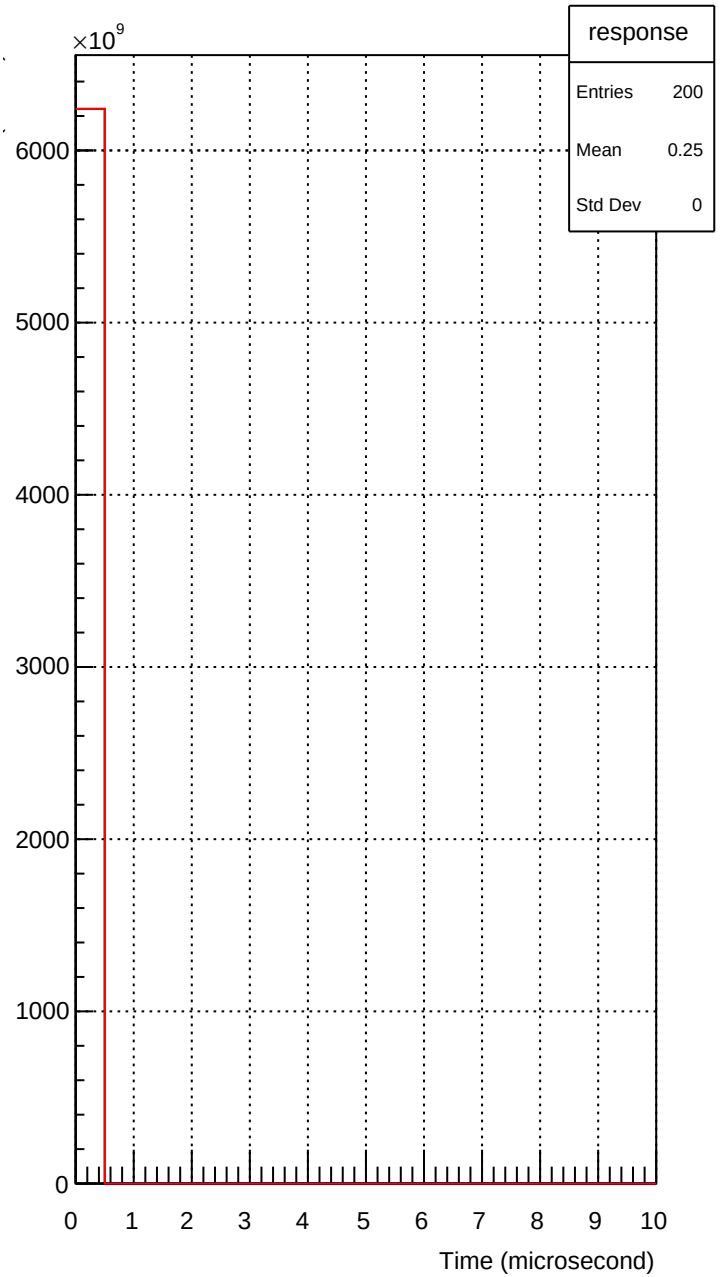

Magnitude of Fourier transform of response
mag
Entries 200
Mean 1
Std Dev 0.5773
×10^9
Amplitude [mV/fC]
6241.5
6241.4
6241.3
6241.2
6241.1
6241
6240.9
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
MHz

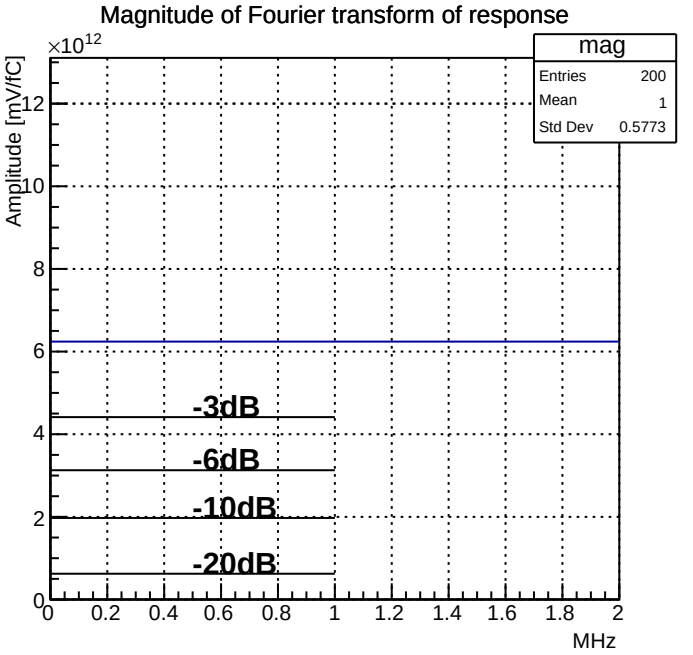

Phase of Fourier transform of response
phi
Entries 200
Mean −7.804e+07
Std Dev 0
×10^−9
Phase [radian]
1.5
1
0.5
0
−0.5
−1
−1.5
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
MHz

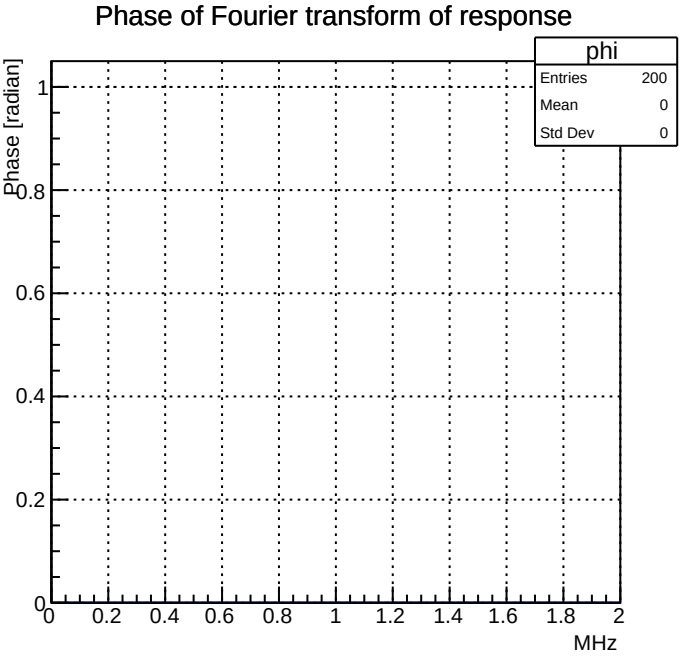

RC Response at 1ms time constant (suppress delta)
response
Entries 200
Mean 5
Std Dev 2.883
×10^3
Time (microsecond)

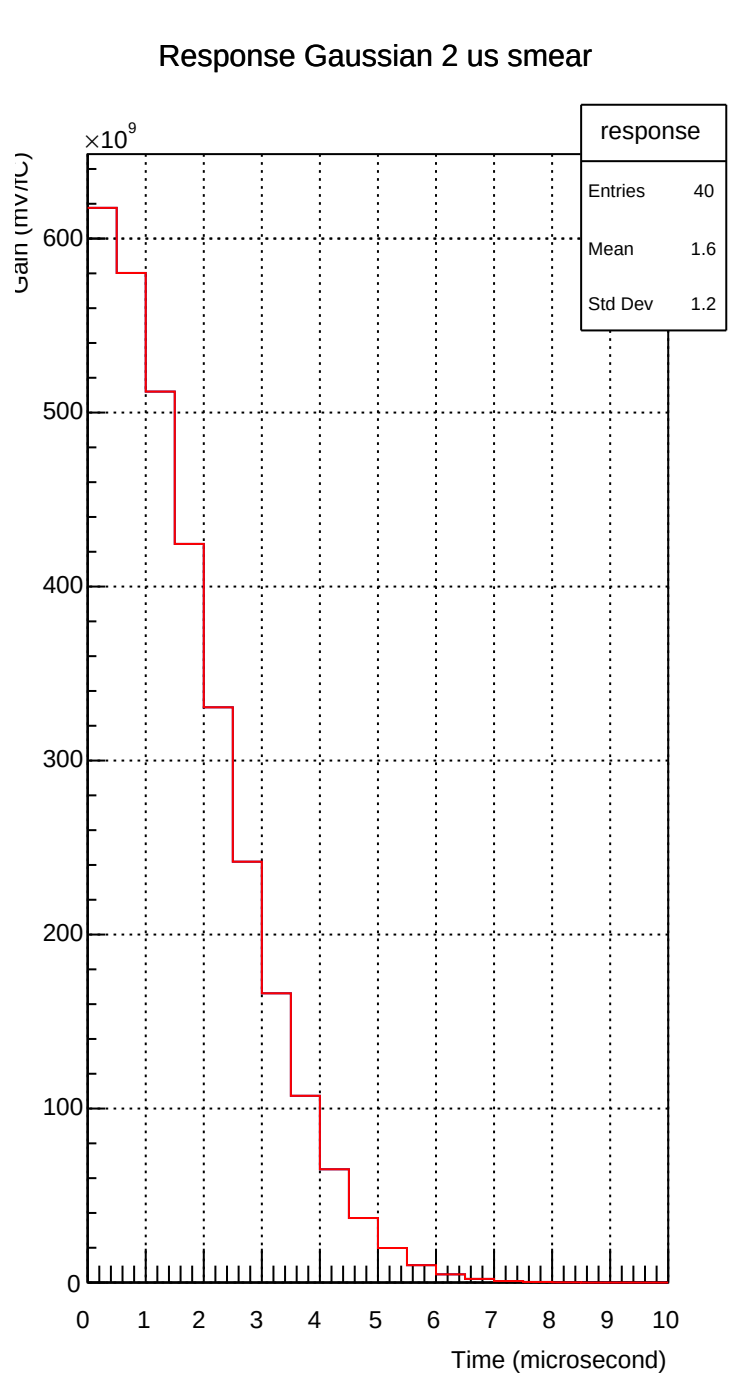

Magnitude of Fourier transform of response
mag
Entries 200
Mean 0.005173
Std Dev 0.01707
×10^6
Amplitude [mV/fC]
-3dB
-6dB
-10dB
-20dB
MHz

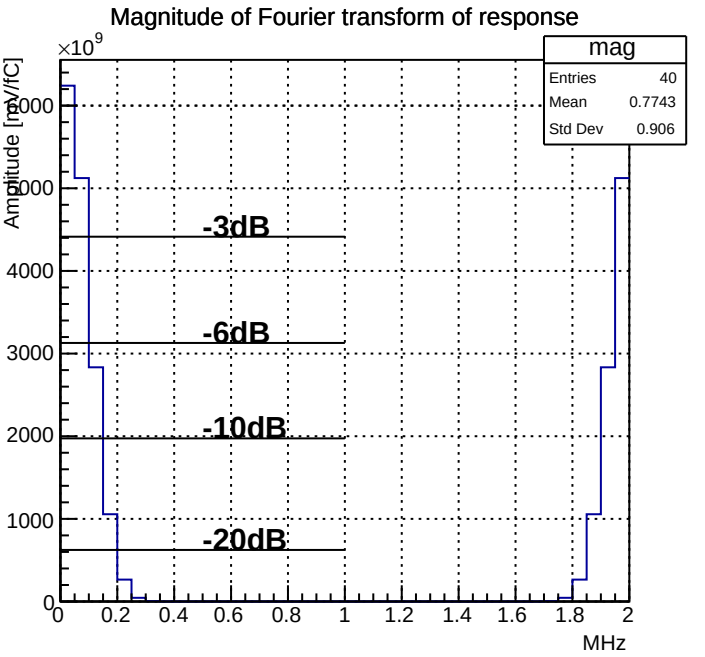

Phase of Fourier transform of response
phi
Entries 200
Mean −32.56
Std Dev 0
Phase [radian]
MHz

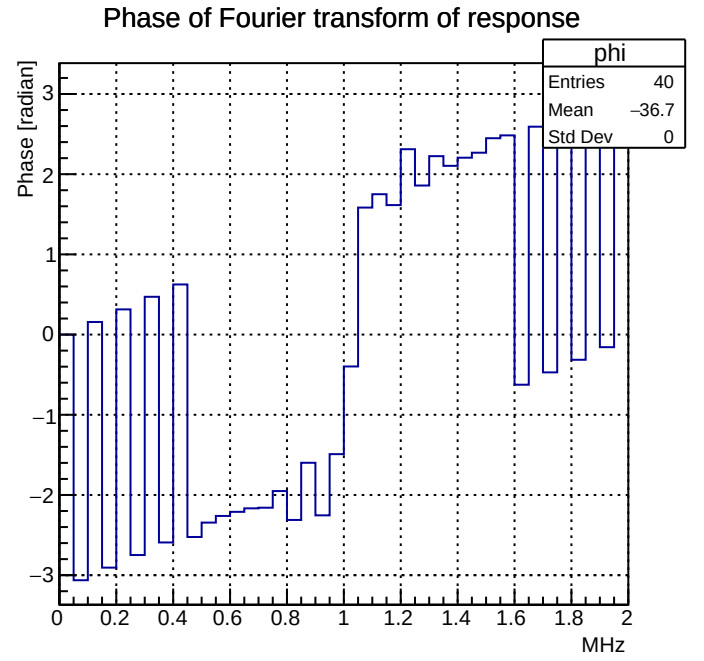

Response Gaussian smear by default
response
Entries 200
Mean 0.25
Std Dev 0
×10^9
6000
5000
4000
3000
2000
1000
0
0 1 2 3 4 5 6 7 8 9 10
Time (microsecond)

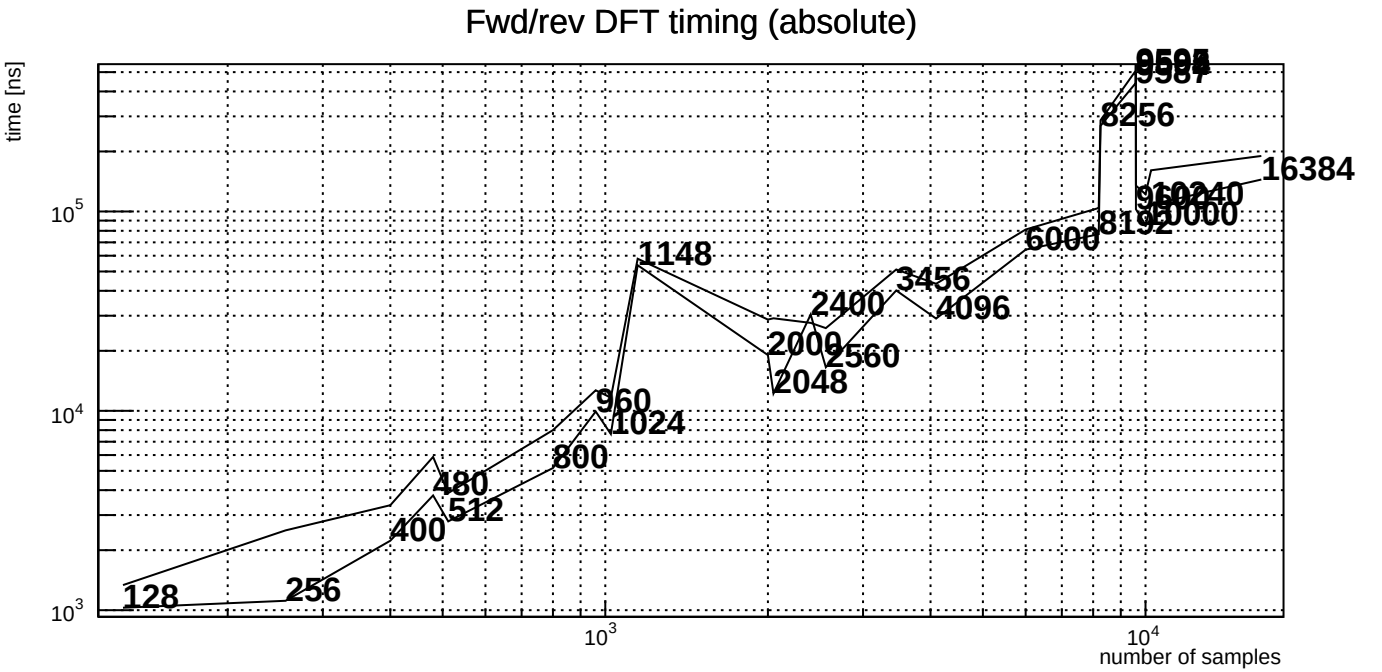

Magnitude of Fourier transform of response
mag
Entries 200
Mean 1
Std Dev 0.5773
×10^12
Amplitude [mV/fC]
12
10
8
6
4
2
0
-3dB
-6dB
-10dB
-20dB
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
MHz

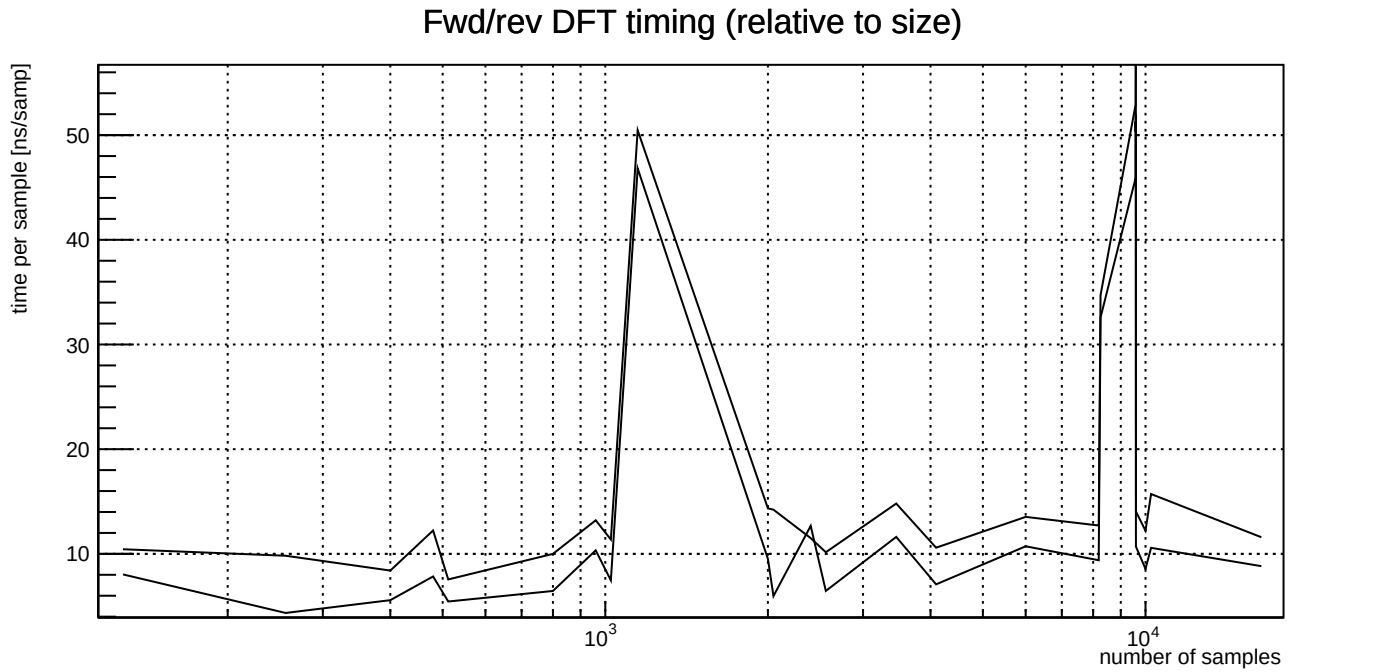

Phase of Fourier transform of response
phi
Entries 200
Mean 0
Std Dev 0
Phase [radian]
1
0.8
0.6
0.4
0.2
0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
MHz

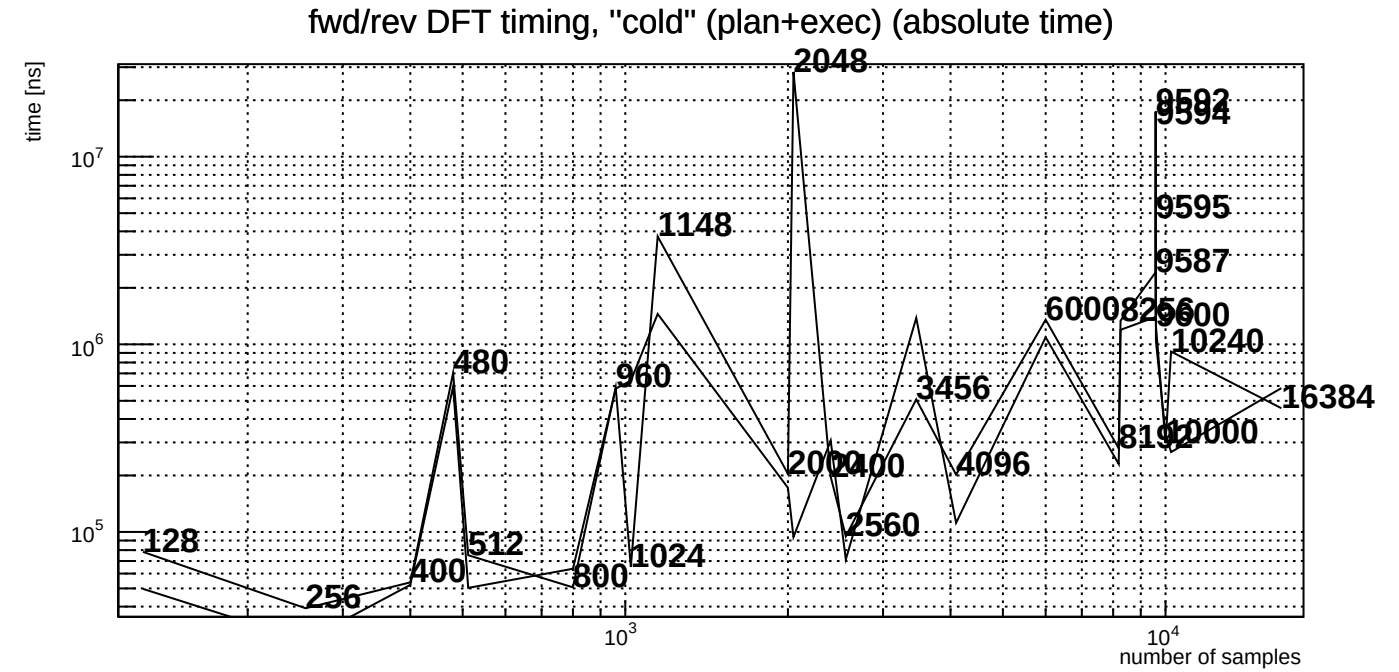

Response Gaussian 2 us smear
response
Entries 40
Mean 1.6
Std Dev 1.2
×10^9
Gain (mV/fC)
Time (microsecond)

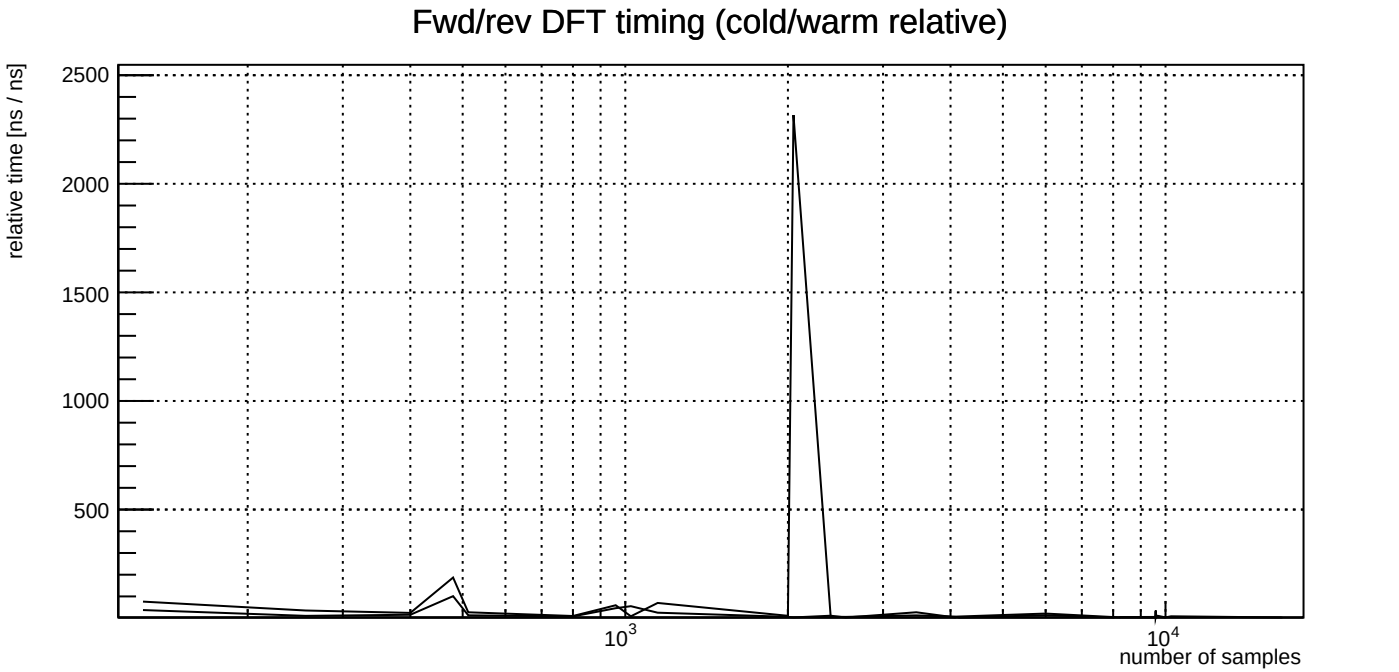

Magnitude of Fourier transform of response
mag
Entries 40
Mean 0.7743
Std Dev 0.906
×10^9
Amplitude [mV/fC]
-3dB
-6dB
-10dB
-20dB
MHz


Phase of Fourier transform of response
phi
Entries 40
Mean −36.7
Std Dev 0
Phase [radian]
MHz


Fwd/rev DFT timing (absolute)
time [ns]
10^5
10^4
10^3
10^3
10^4
number of samples
128
256
400
480
512
800
960
1024
1148
2000
2048
2400
2560
3456
4096
6000
8192
8256
16384


Fwd/rev DFT timing (relative to size)
time per sample [ns/samp]
50
40
30
20
10
10^3
10^4
number of samples


fwd/rev DFT timing, "cold" (plan+exec) (absolute time)
time [ns]
10^7
10^6
10^5
10^3
10^4
number of samples
2048
9592
9594
9595
9587
1148
6000
8256
9600
10240
480
960
3456
16384
8192
10000
2000
2400
4096
2560
128
512
1024
256
400
800


Fwd/rev DFT timing (cold/warm relative)
relative time [ns / ns]
2500
2000
1500
1000
500
10^3
10^4
number of samples