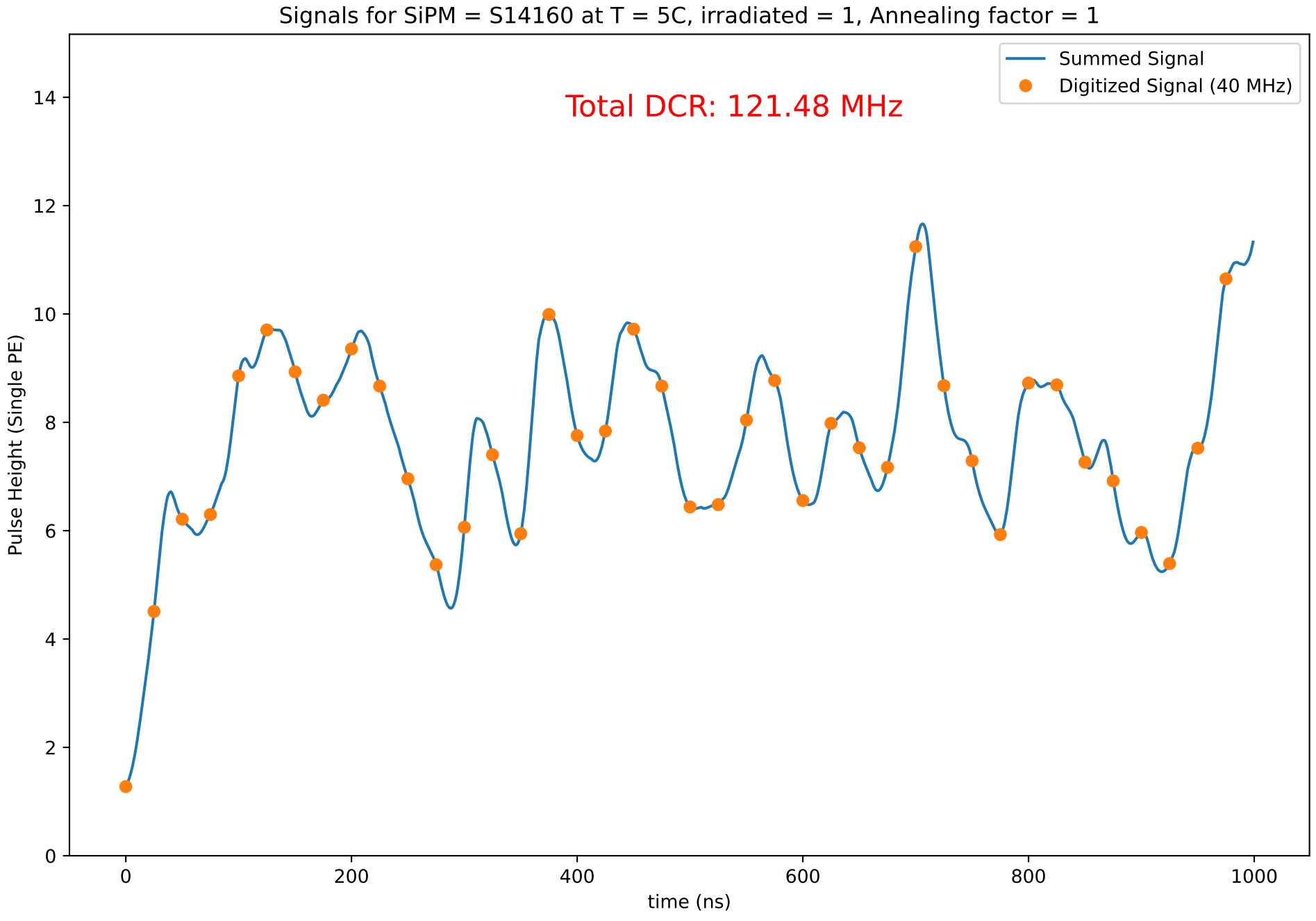
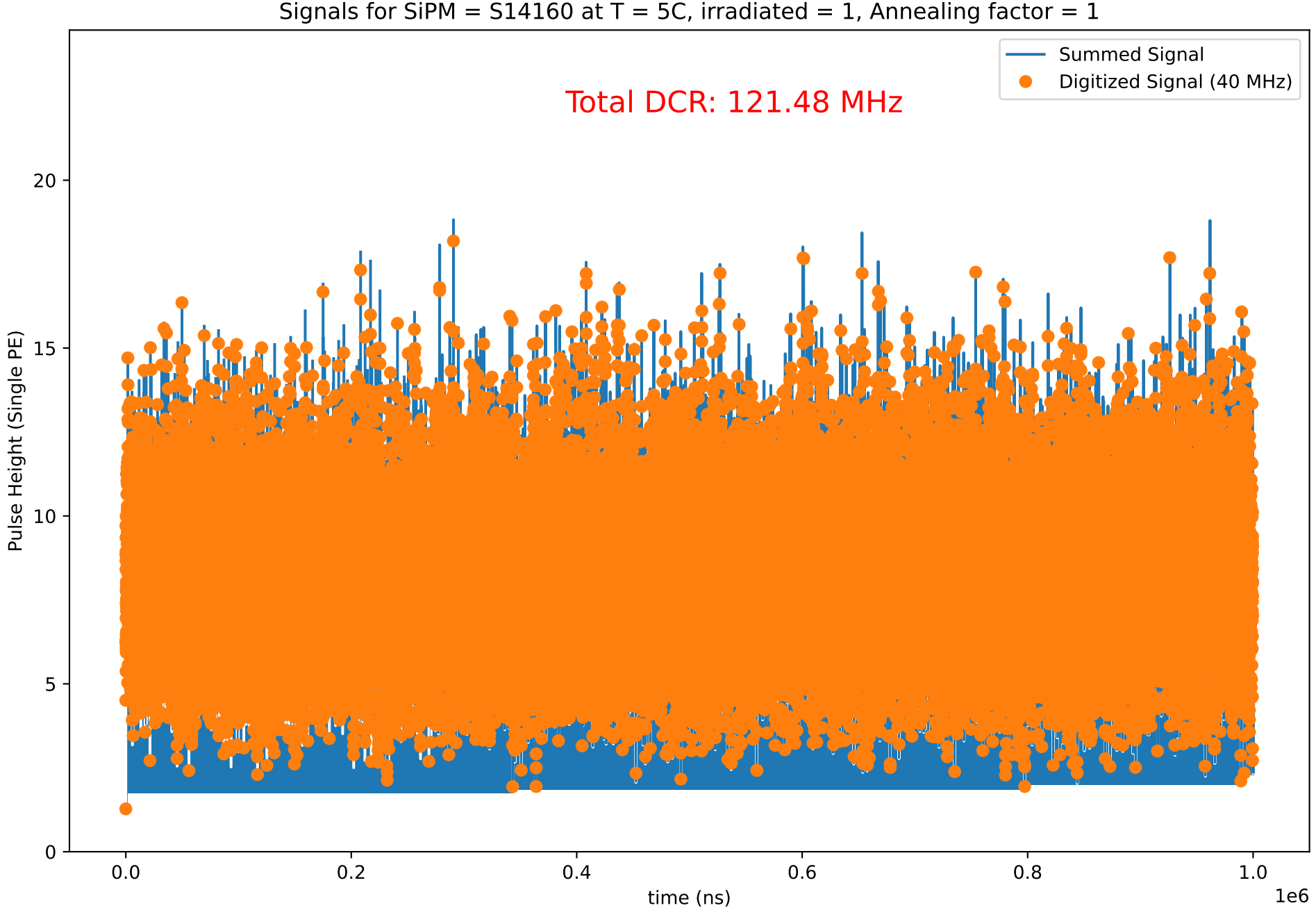
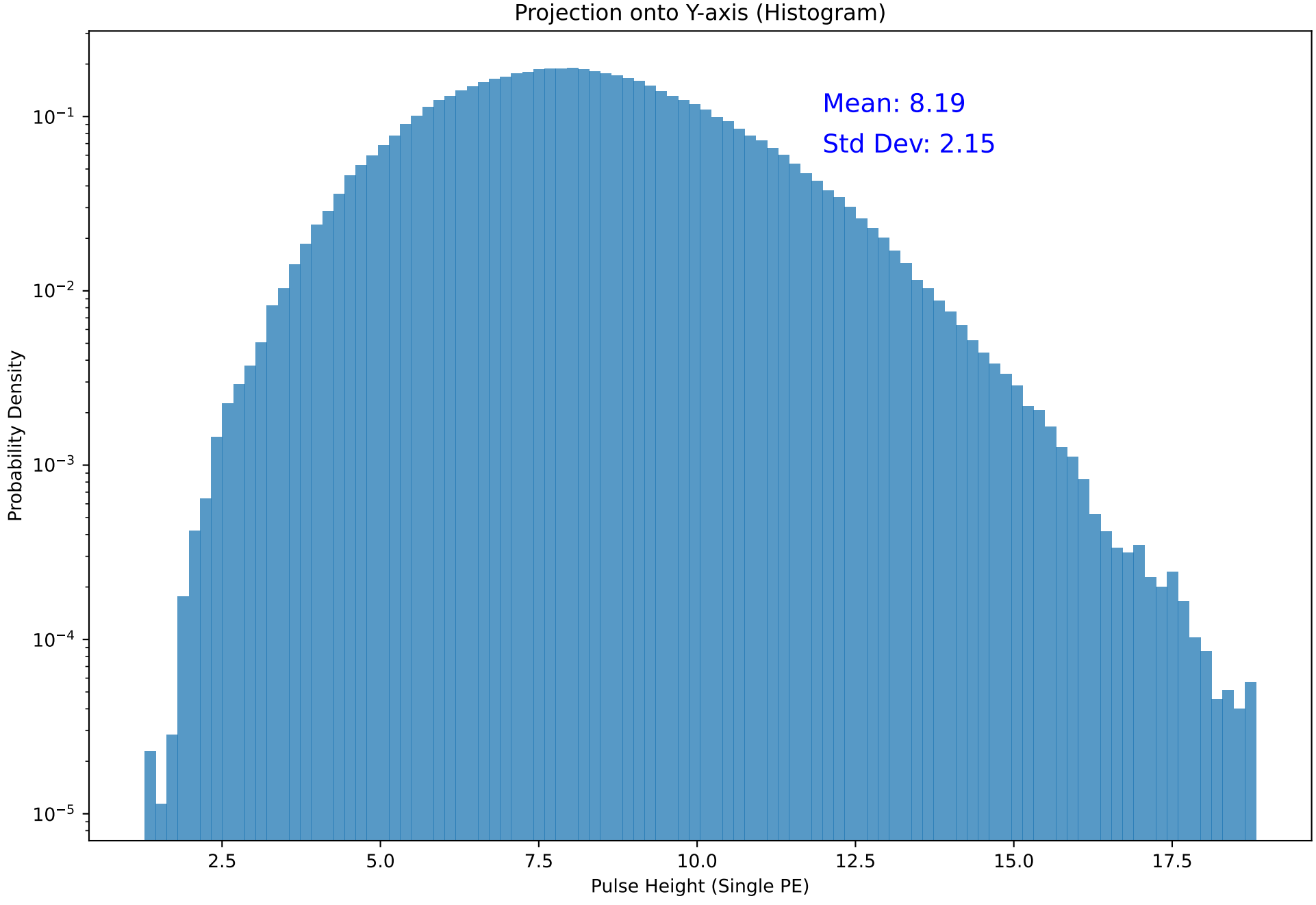
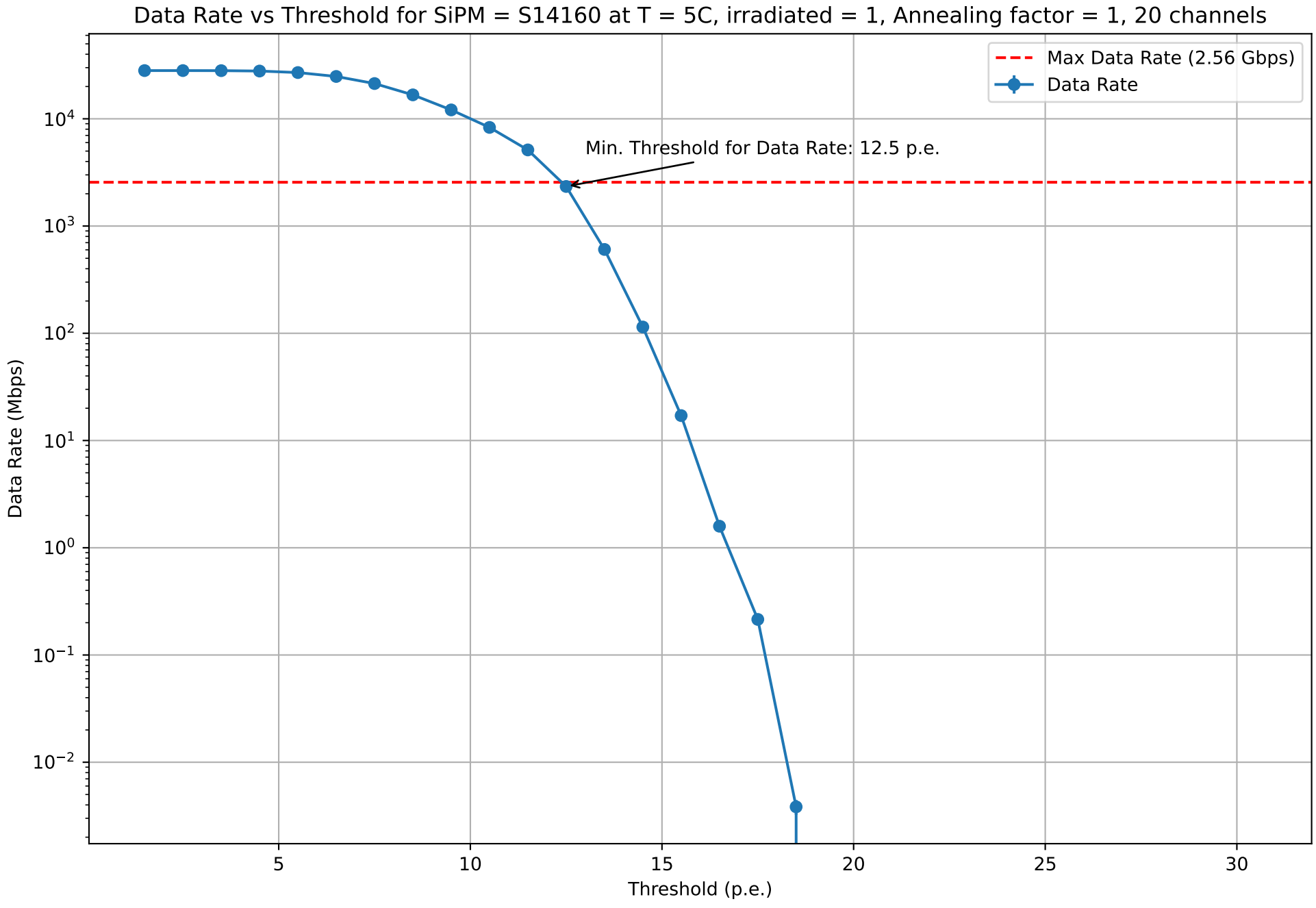
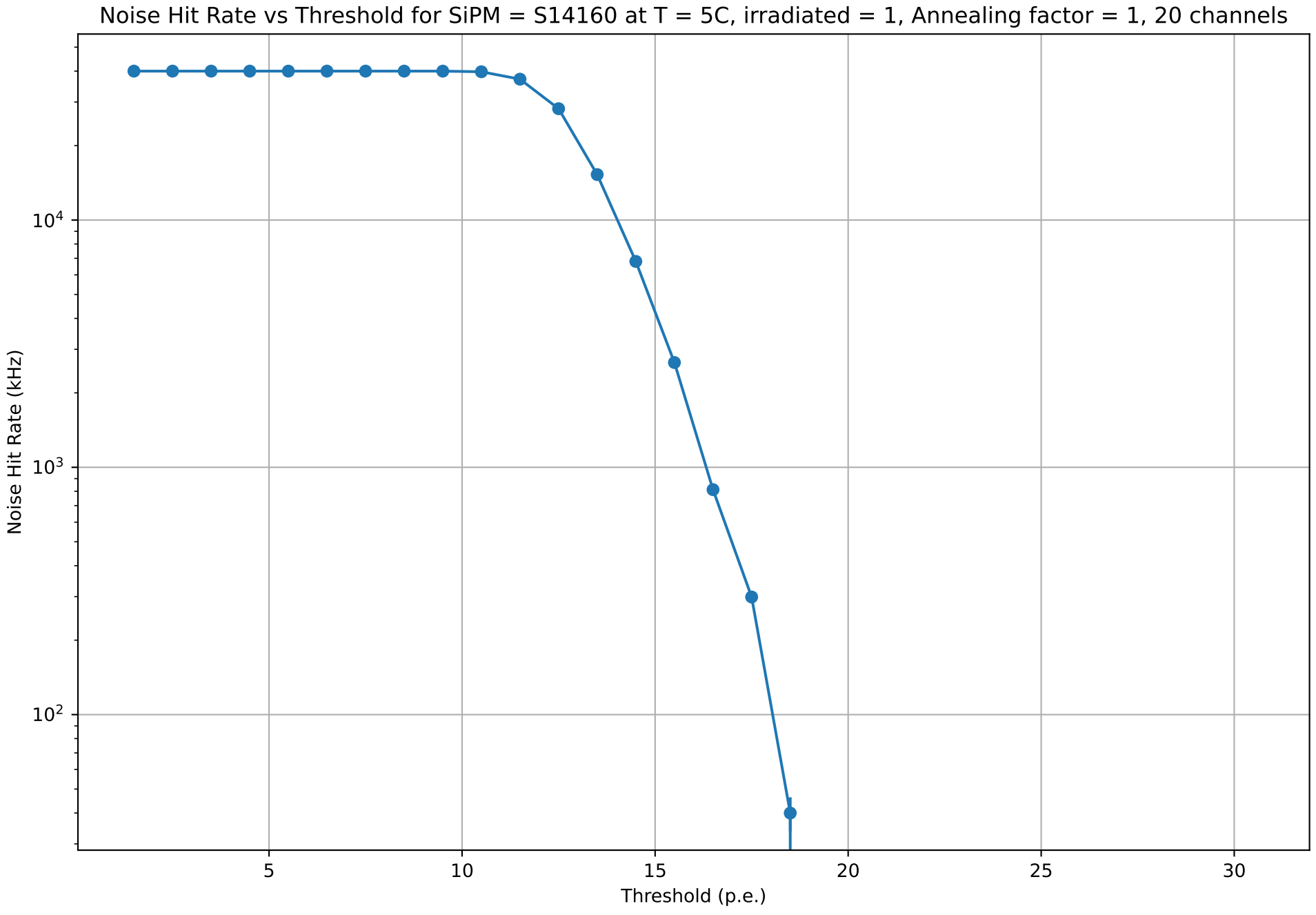

Signals for SiPM = S14160 at T = 5C, irradiated = 1, Annealing factor = 1
Summed Signal
Digitized Signal (40 MHz)
Total DCR: 121.48 MHz
Pulse Height (Single PE)
time (ns)
0
2
4
6
8
10
12
14
0
200
400
600
800
1000


Signals for SiPM = S14160 at T = 5C, irradiated = 1, Annealing factor = 1
Summed Signal
Digitized Signal (40 MHz)
Total DCR: 121.48 MHz
Pulse Height (Single PE)
0
5
10
15
20
0.0
0.2
0.4
0.6
0.8
1.0
1e6
time (ns)


Projection onto Y-axis (Histogram)
Mean: 8.19
Std Dev: 2.15
Probability Density
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Pulse Height (Single PE)


Data Rate vs Threshold for SiPM = S14160 at T = 5C, irradiated = 1, Annealing factor = 1, 20 channels
Max Data Rate (2.56 Gbps)
Data Rate
Min. Threshold for Data Rate: 12.5 p.e.
Data Rate (Mbps)
Threshold (p.e.)
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
5
10
15
20
25
30


Noise Hit Rate vs Threshold for SiPM = S14160 at T = 5C, irradiated = 1, Annealing factor = 1, 20 channels
Noise Hit Rate (kHz)
10^4
10^3
10^2
5
10
15
20
25
30
Threshold (p.e.)