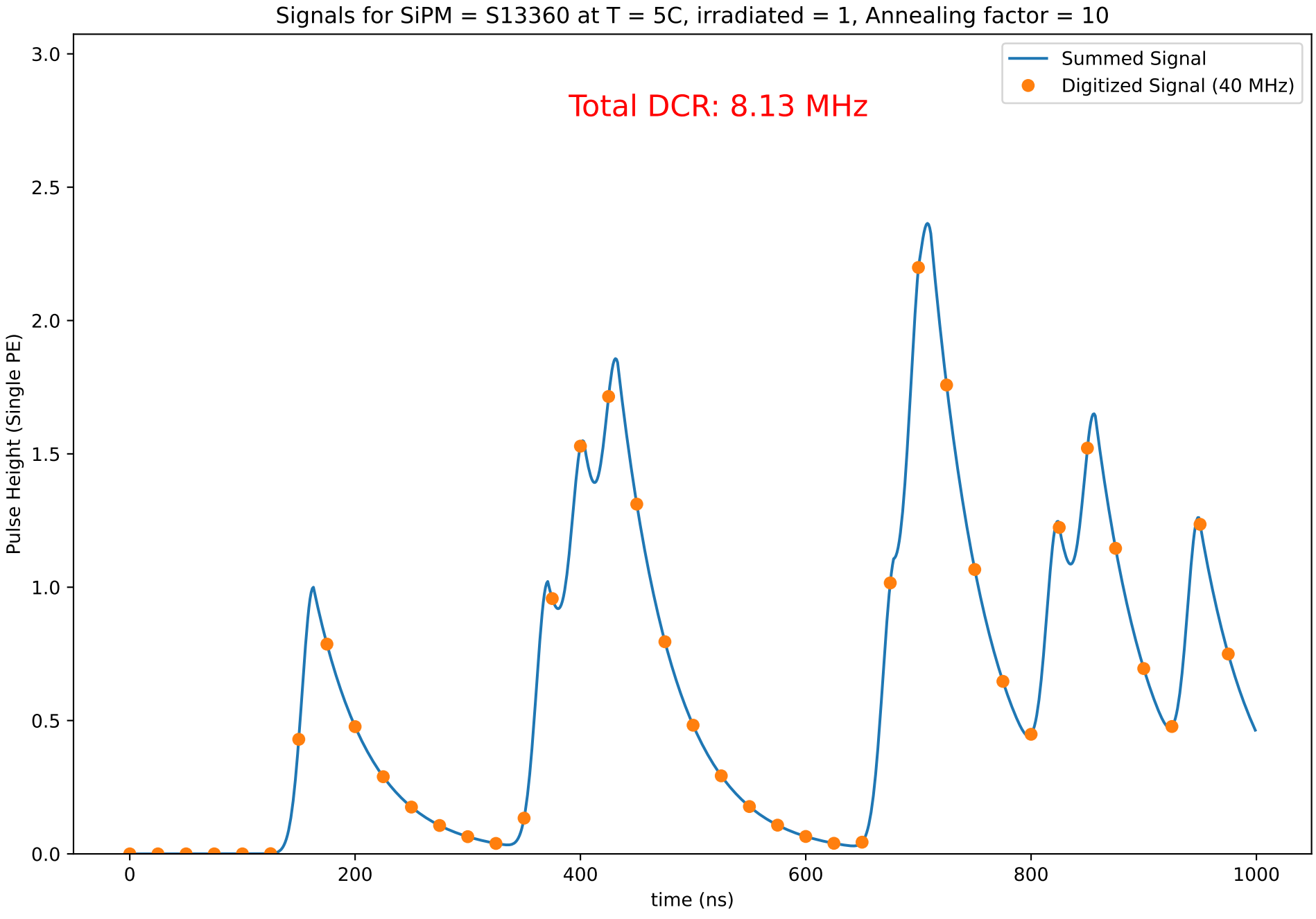
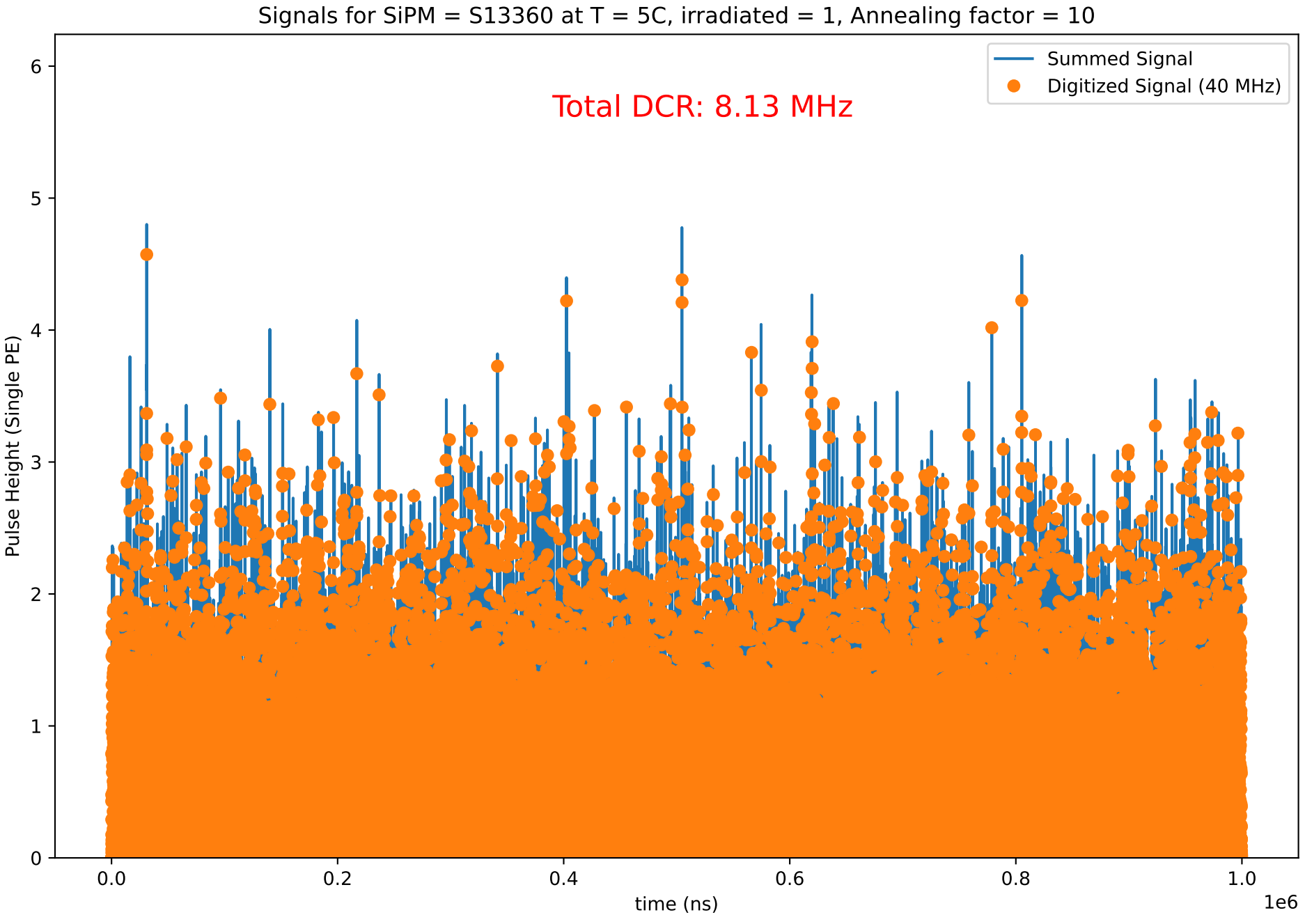
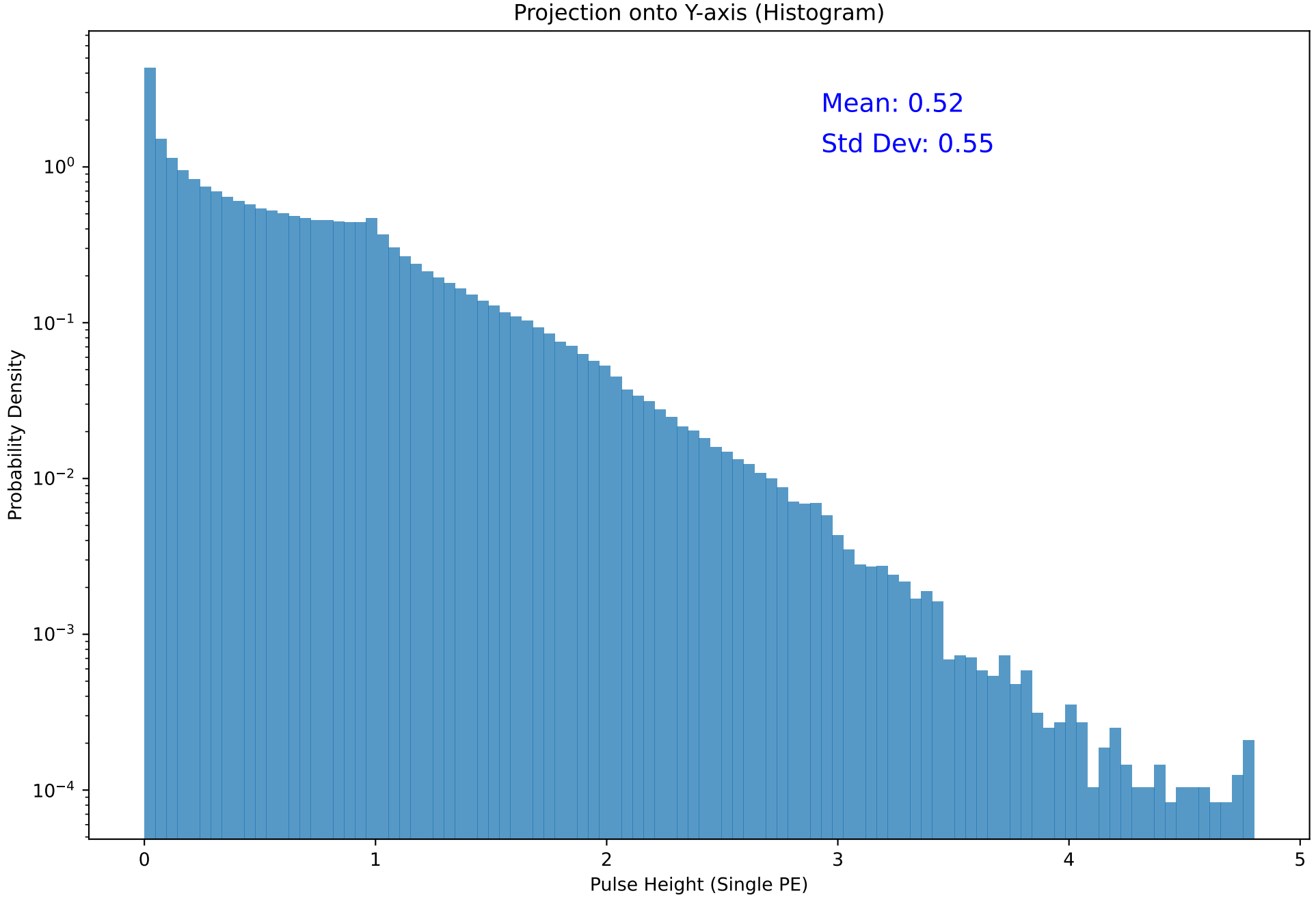
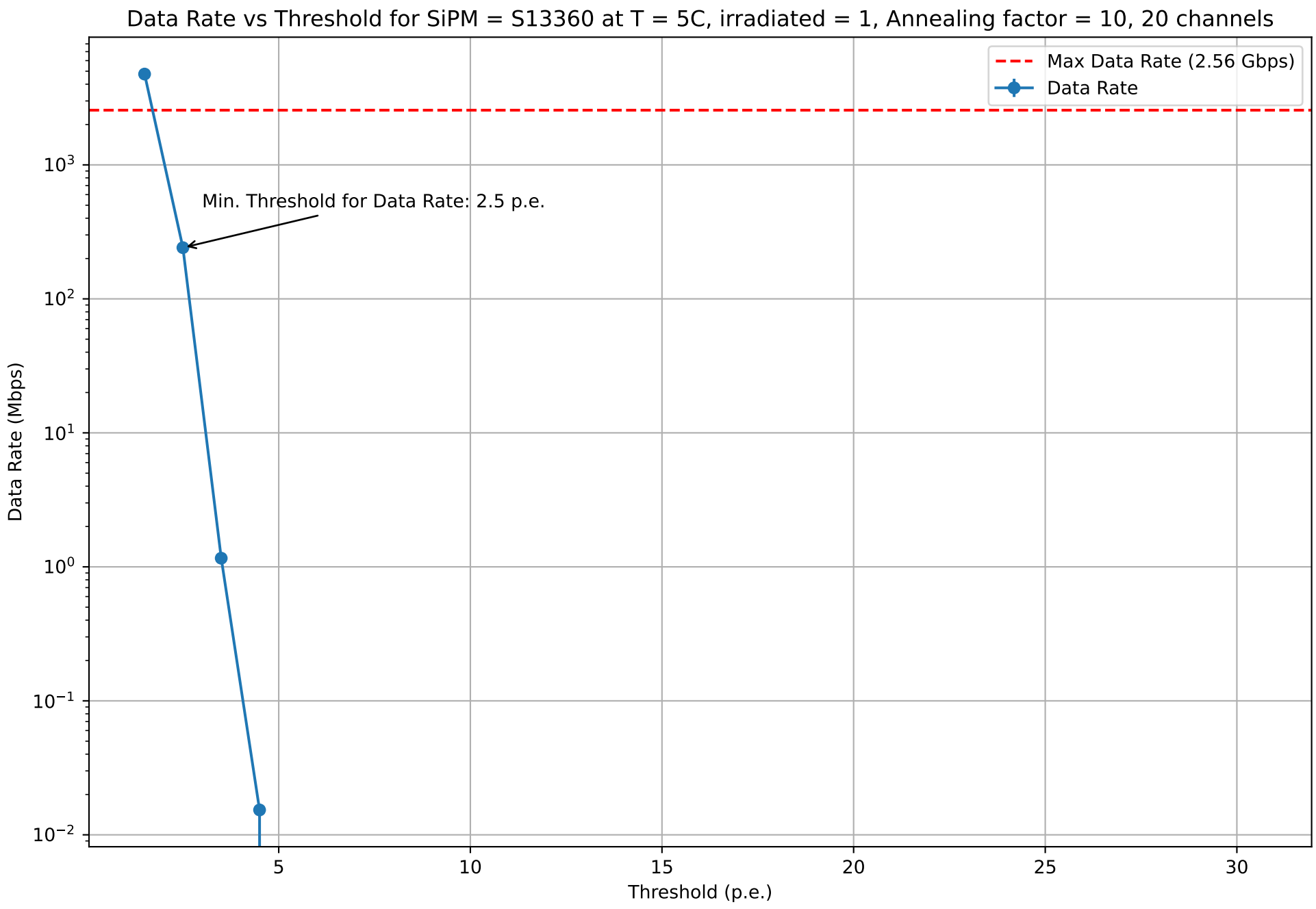
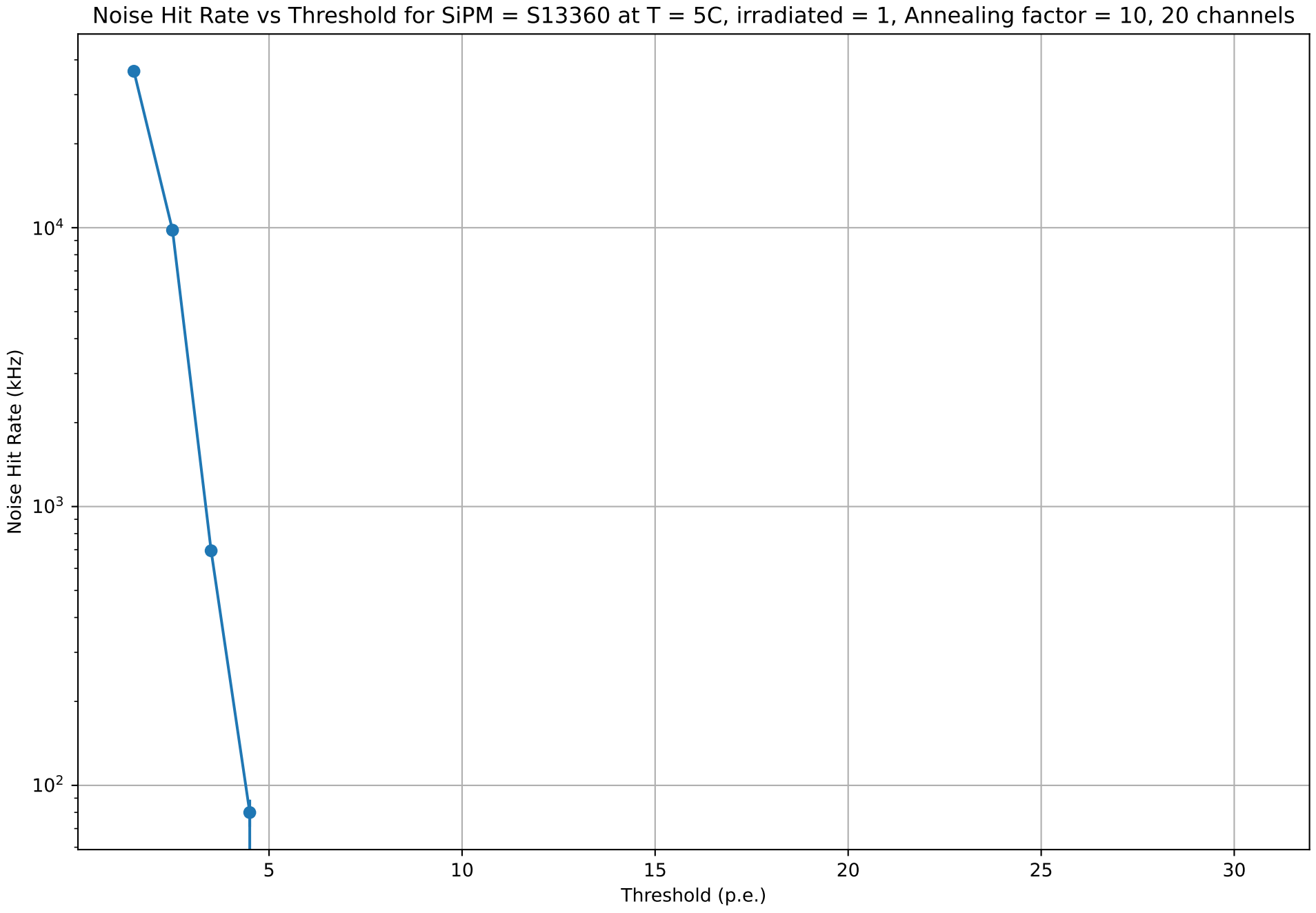

Signals for SiPM = S13360 at T = 5C, irradiated = 1, Annealing factor = 10
Summed Signal
Digitized Signal (40 MHz)
Total DCR: 8.13 MHz
Pulse Height (Single PE)
time (ns)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
200
400
600
800
1000


Signals for SiPM = S13360 at T = 5C, irradiated = 1, Annealing factor = 10
Summed Signal
Digitized Signal (40 MHz)
Total DCR: 8.13 MHz
Pulse Height (Single PE)
time (ns)
1e6
0
1
2
3
4
5
6
0.0
0.2
0.4
0.6
0.8
1.0


Projection onto Y-axis (Histogram)
Mean: 0.52
Std Dev: 0.55
Probability Density
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0
1
2
3
4
5
Pulse Height (Single PE)


Data Rate vs Threshold for SiPM = S13360 at T = 5C, irradiated = 1, Annealing factor = 10, 20 channels
Max Data Rate (2.56 Gbps)
Data Rate
Min. Threshold for Data Rate: 2.5 p.e.
Data Rate (Mbps)
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
5
10
15
20
25
30
Threshold (p.e.)


Noise Hit Rate vs Threshold for SiPM = S13360 at T = 5C, irradiated = 1, Annealing factor = 10, 20 channels
Noise Hit Rate (kHz)
10^4
10^3
10^2
5
10
15
20
25
30
Threshold (p.e.)