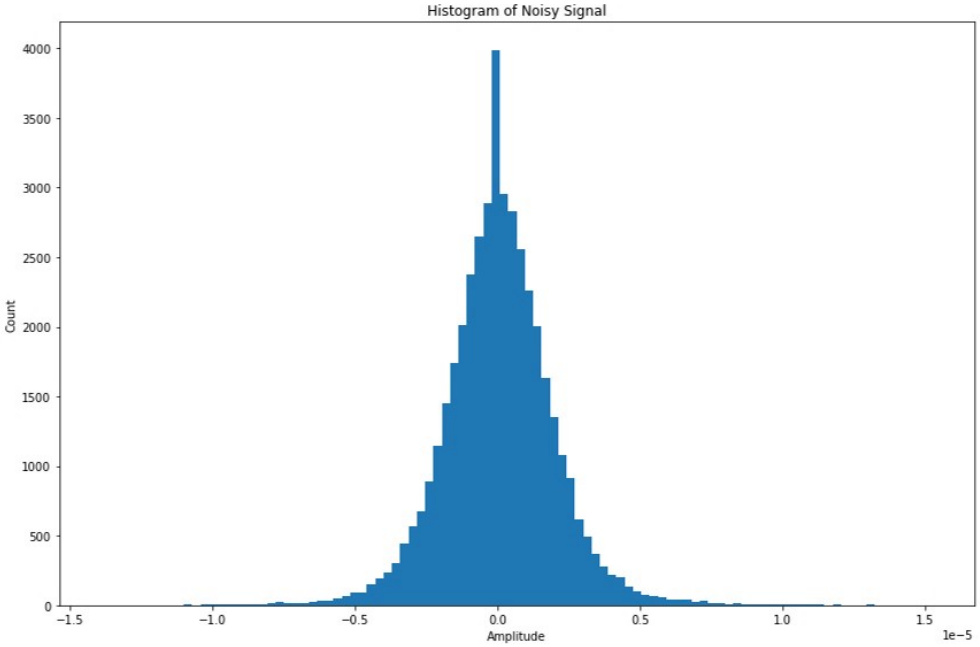
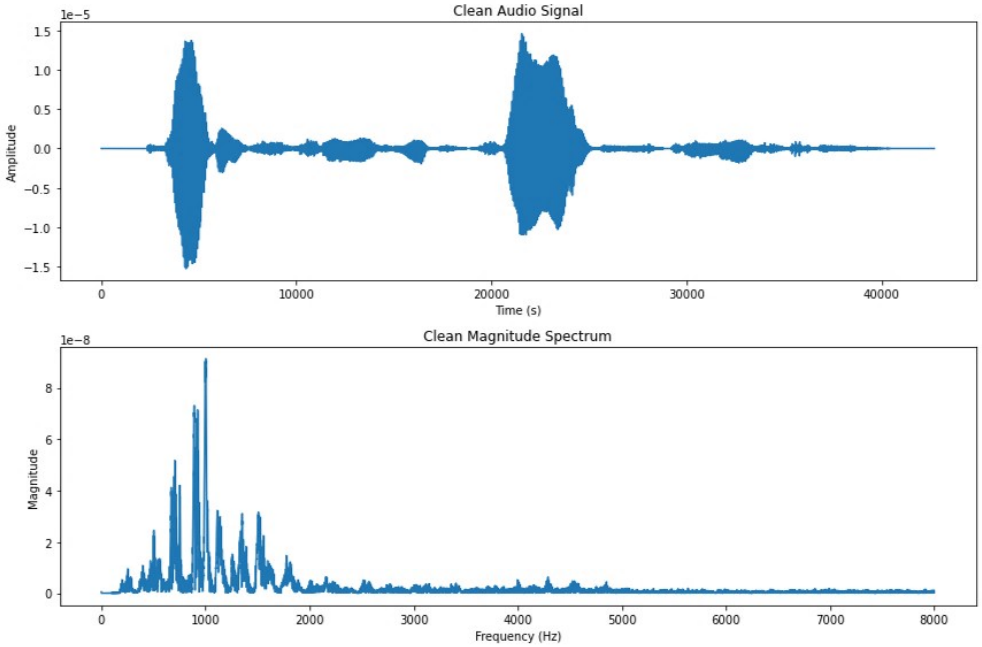
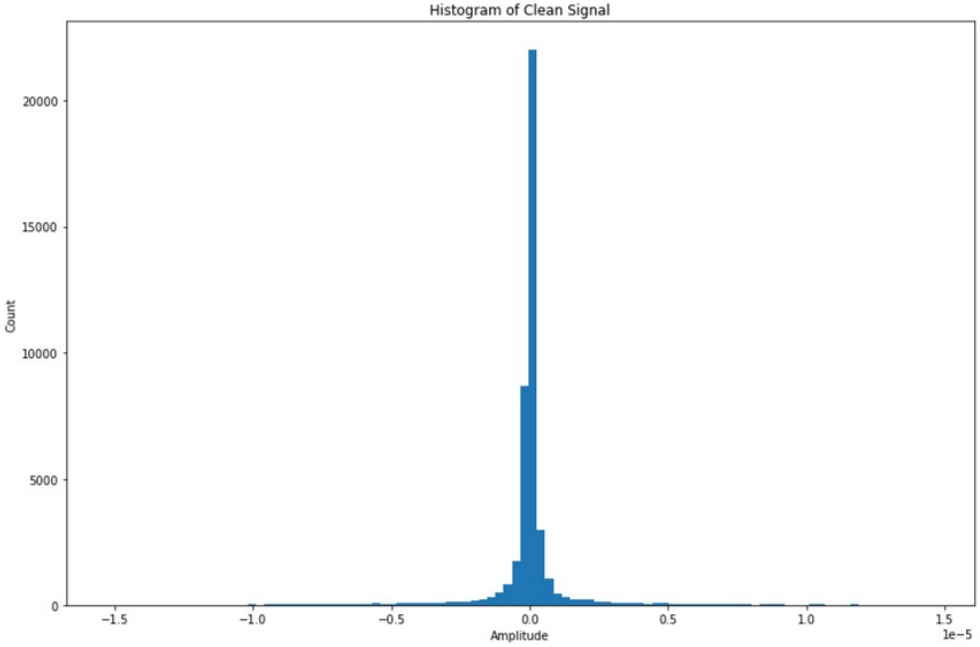
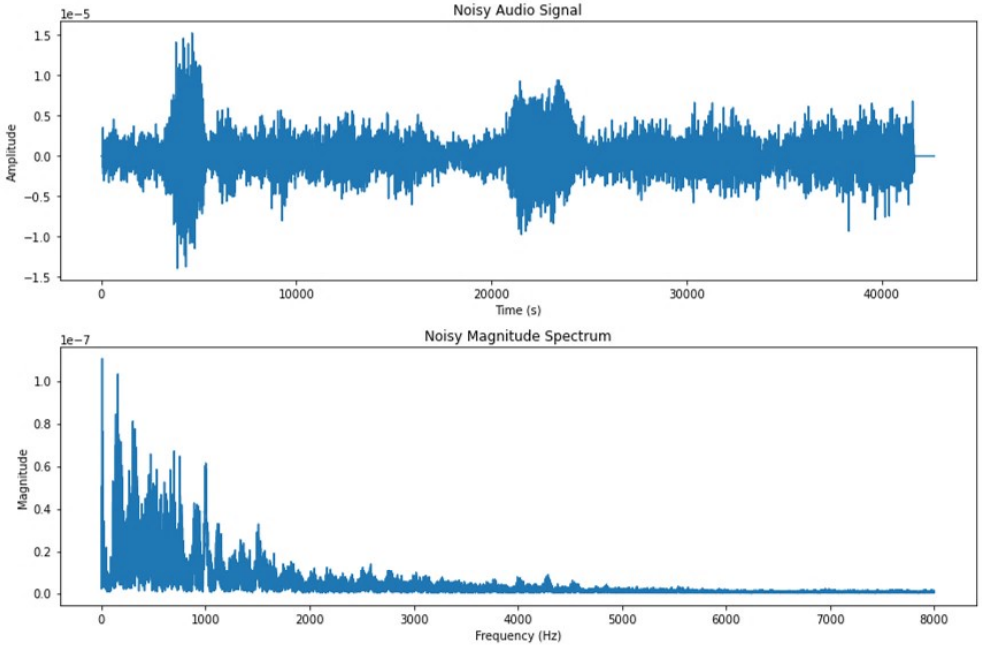
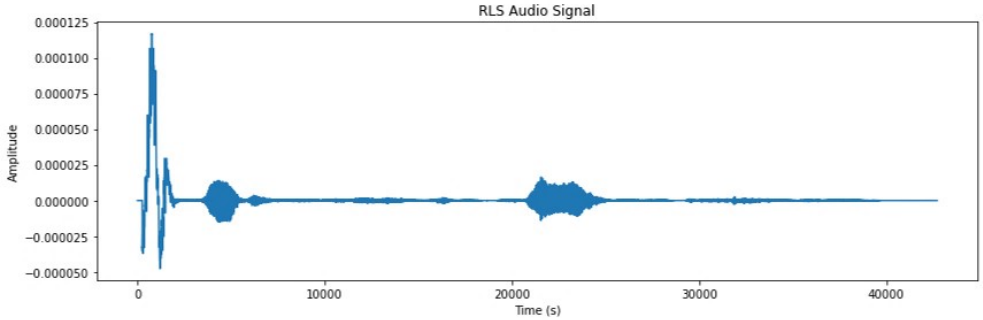
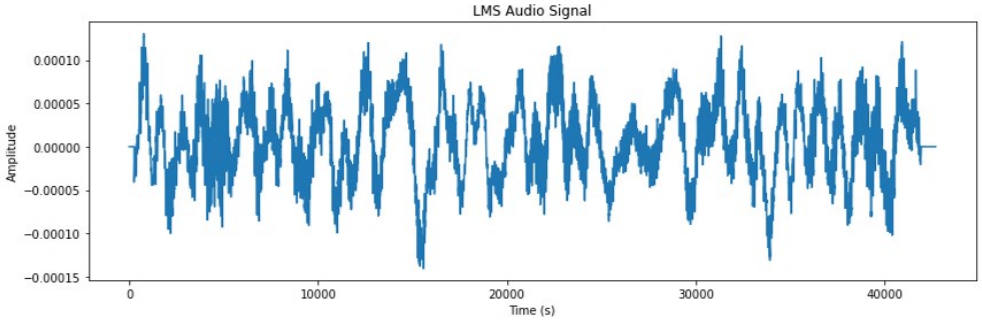

Histogram of Noisy Signal
Count
Amplitude
1e−5

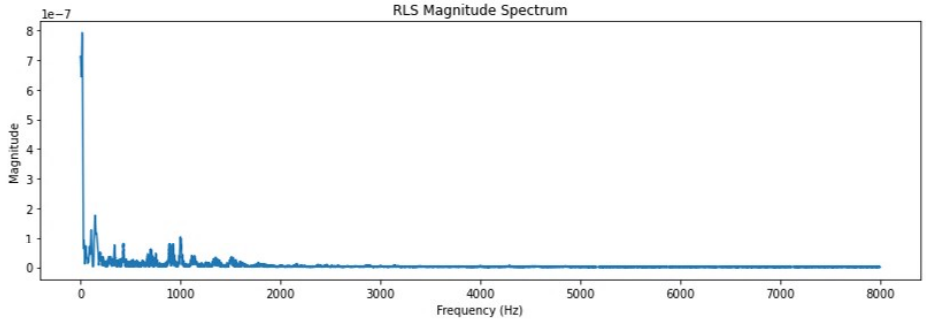

Clean Audio Signal
1e−5
Amplitude
Time (s)
Clean Magnitude Spectrum
1e−8
Magnitude
Frequency (Hz)

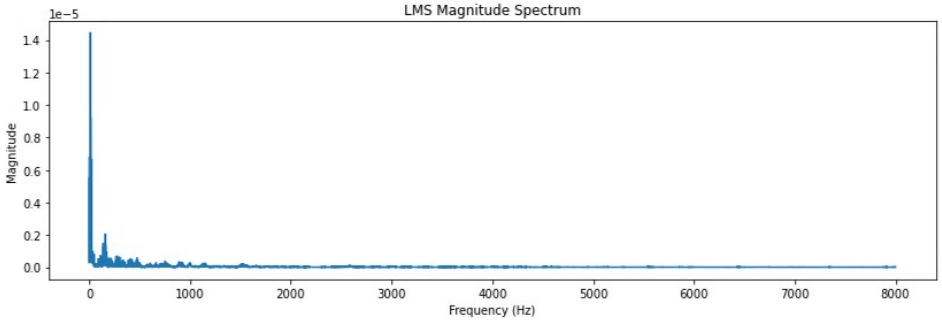

Histogram of Clean Signal
Count
Amplitude
1e−5

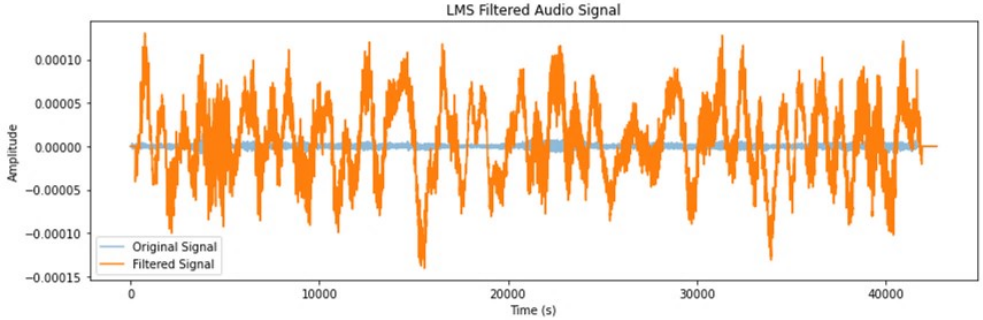

Noisy Audio Signal
1e−5
Amplitude
Time (s)
Noisy Magnitude Spectrum
1e−7
Magnitude
Frequency (Hz)

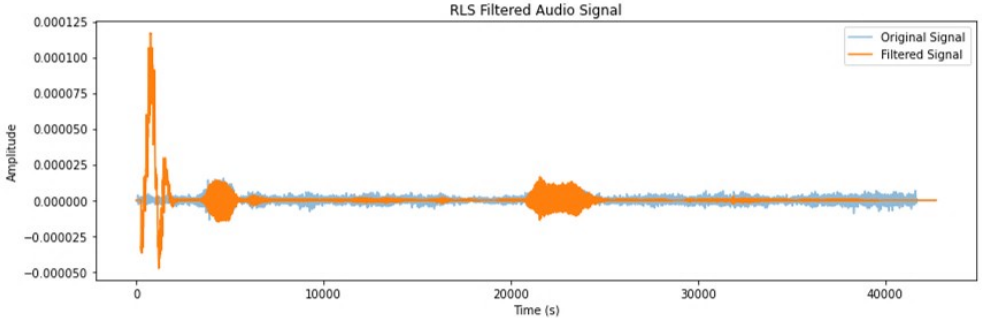

RLS Audio Signal
Amplitude
Time (s)

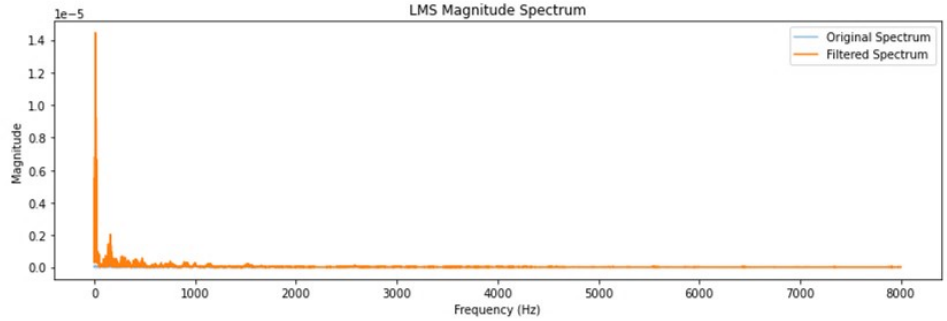

LMS Audio Signal
Amplitude
Time (s)

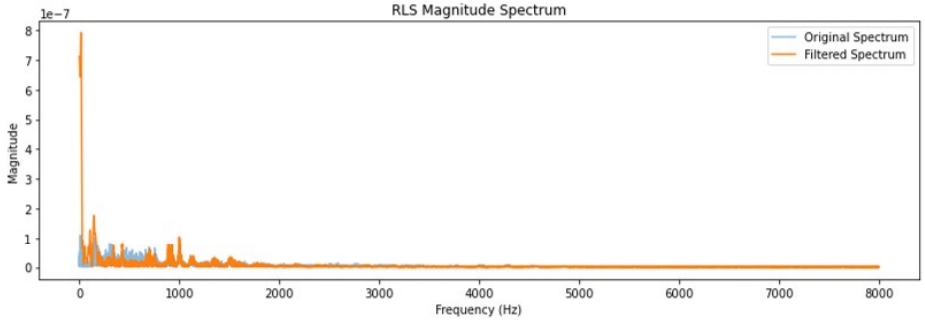

RLS Magnitude Spectrum
1e−7
Magnitude
Frequency (Hz)

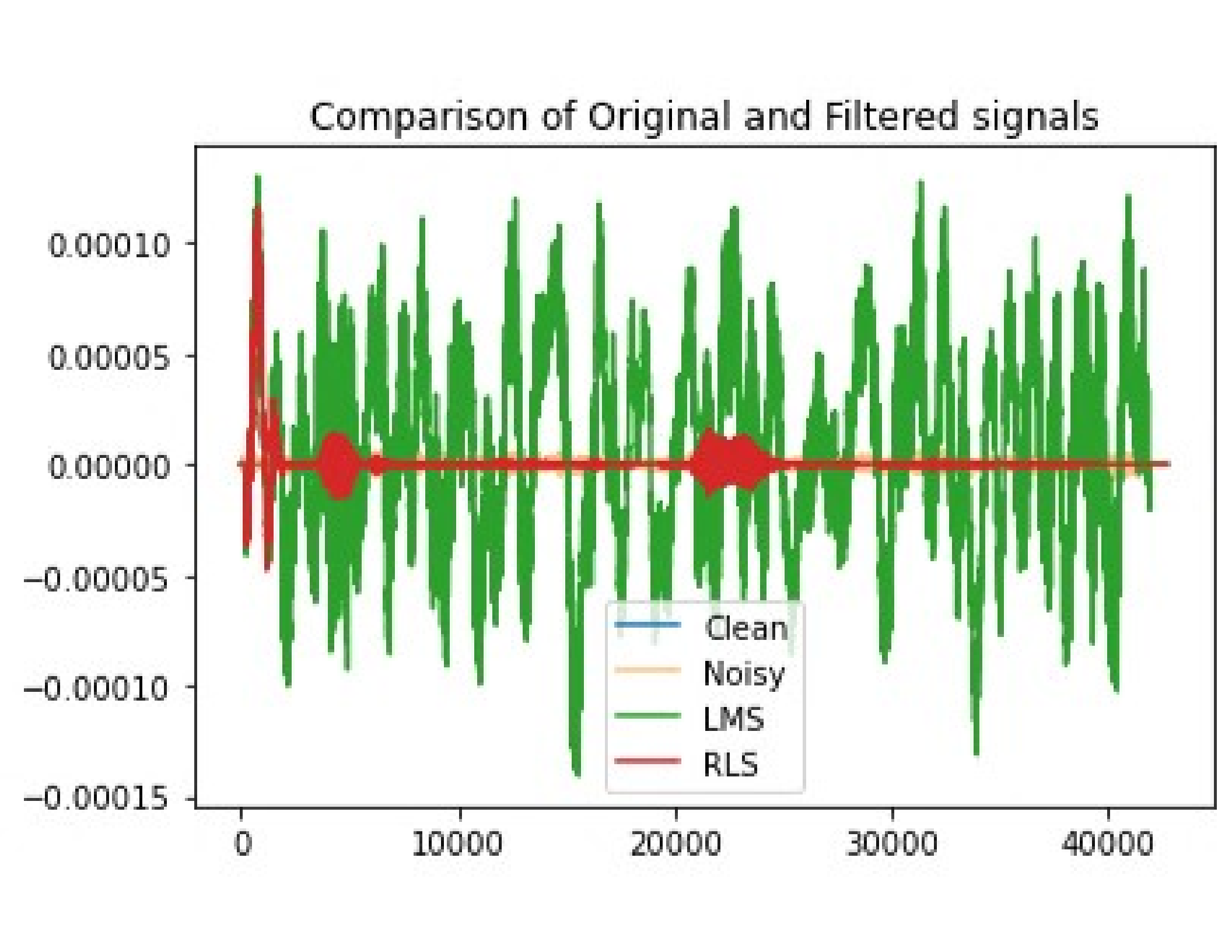

LMS Magnitude Spectrum
1e−5
Magnitude
Frequency (Hz)


LMS Filtered Audio Signal
Original Signal
Filtered Signal
Amplitude
Time (s)


RLS Filtered Audio Signal
Original Signal
Filtered Signal
Amplitude
Time (s)


LMS Magnitude Spectrum
1e−5
Original Spectrum
Filtered Spectrum
Magnitude
Frequency (Hz)


RLS Magnitude Spectrum
1e−7
Original Spectrum
Filtered Spectrum
Magnitude
Frequency (Hz)


Comparison of Original and Filtered signals
0.00010
0.00005
0.00000
−0.00005
−0.00010
−0.00015
0
10000
20000
30000
40000
Clean
Noisy
LMS
RLS