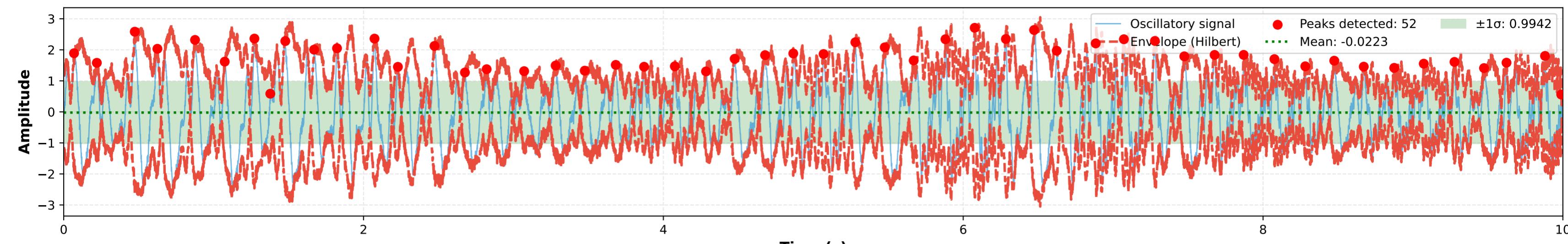


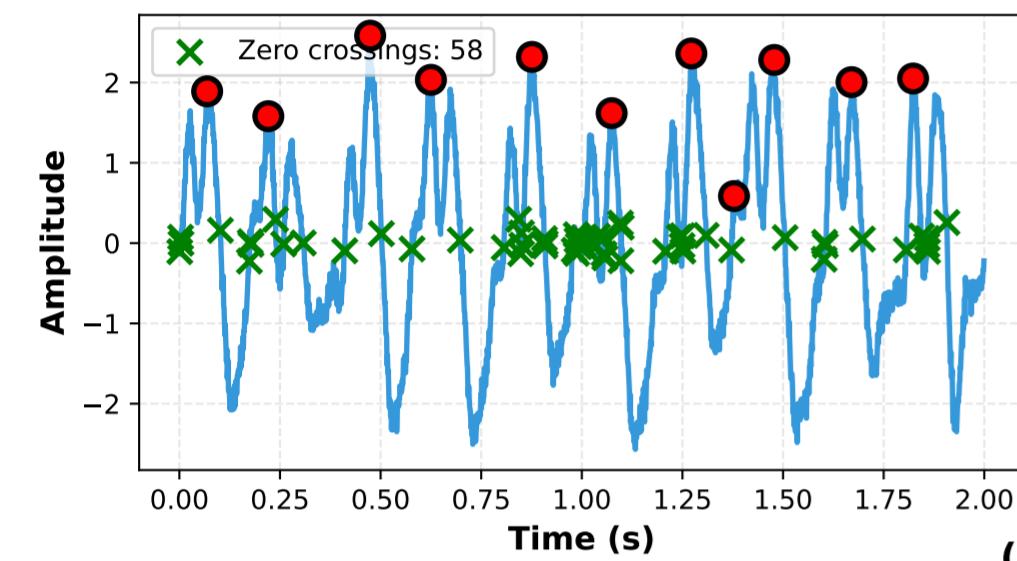
Oscillatory Test Analysis: Comprehensive Time-Frequency Characterization

Dataset: 20251011_065144 | Module: oscillatory | Duration: 10s, fs=1000Hz

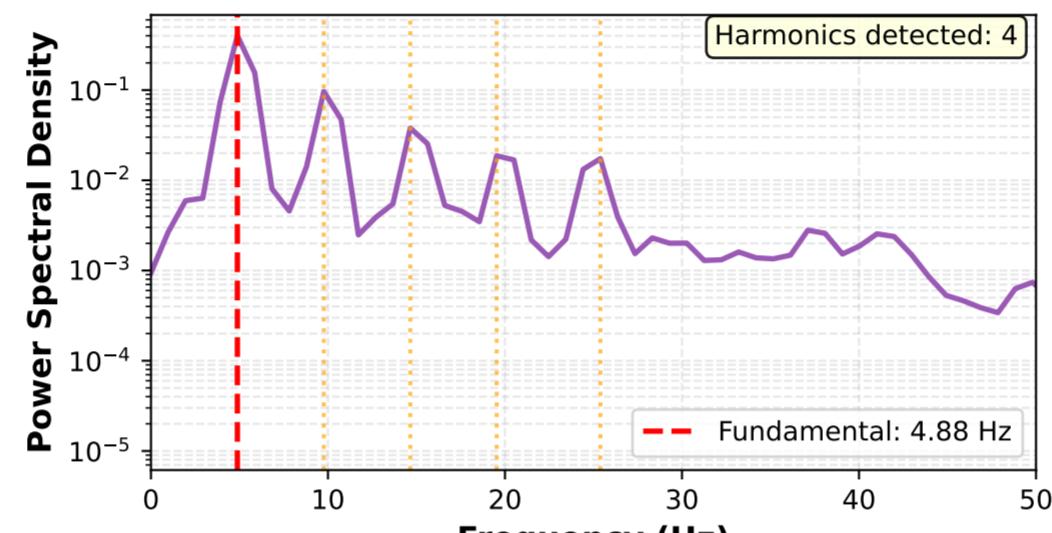
(A) Oscillatory Signal: Time Domain Analysis
Full Duration with Envelope Detection



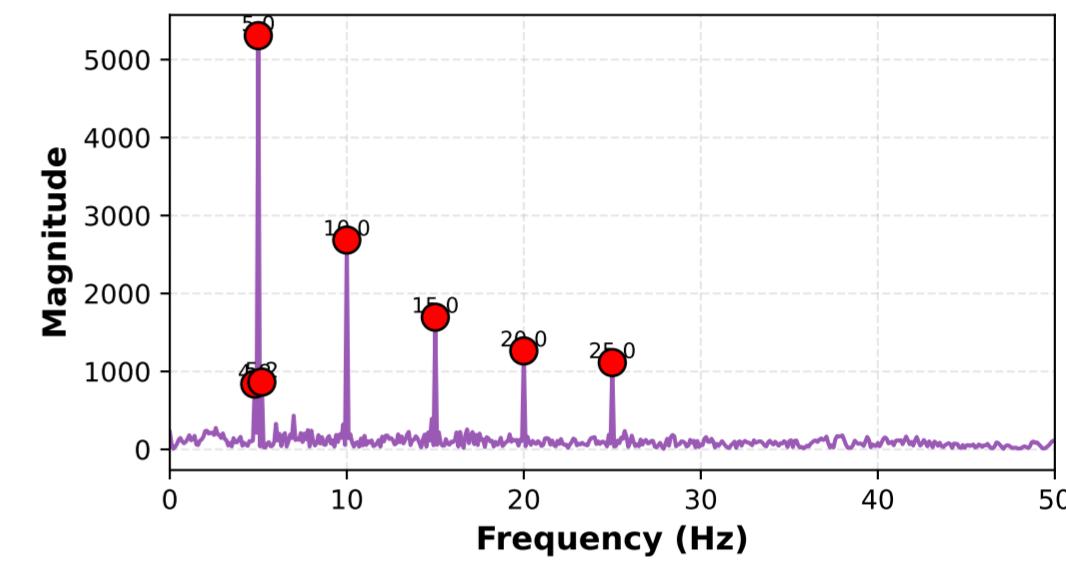
(B) Zoomed View: Detailed Waveform
First 2 Seconds



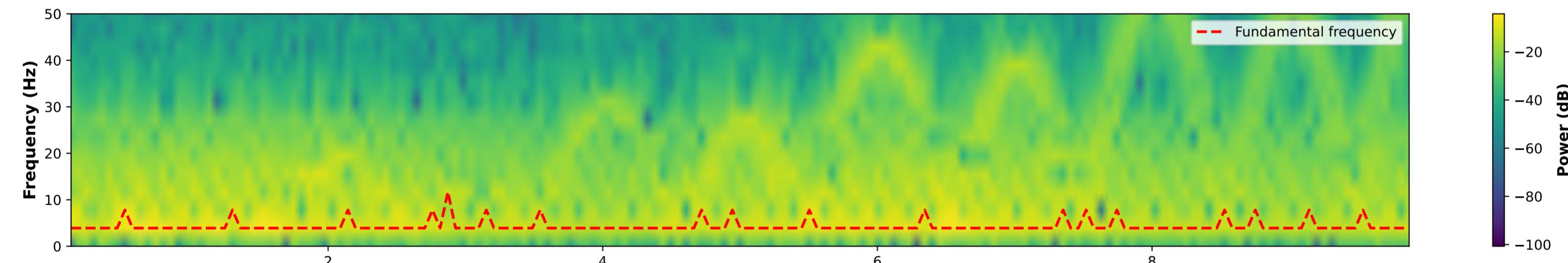
(C) Power Spectral Density
Frequency Domain Analysis



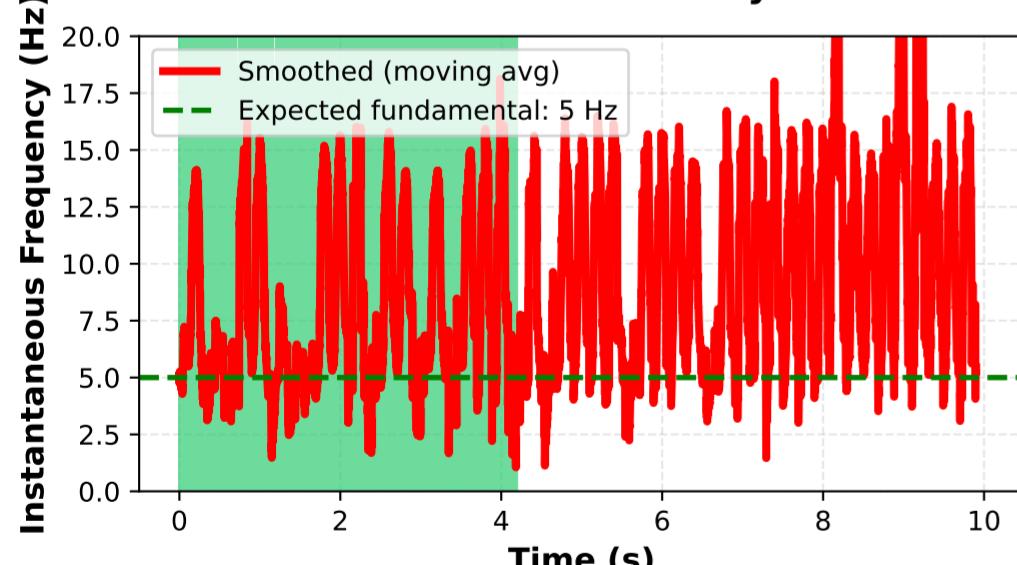
(D) FFT Spectrum
Top Frequency Components



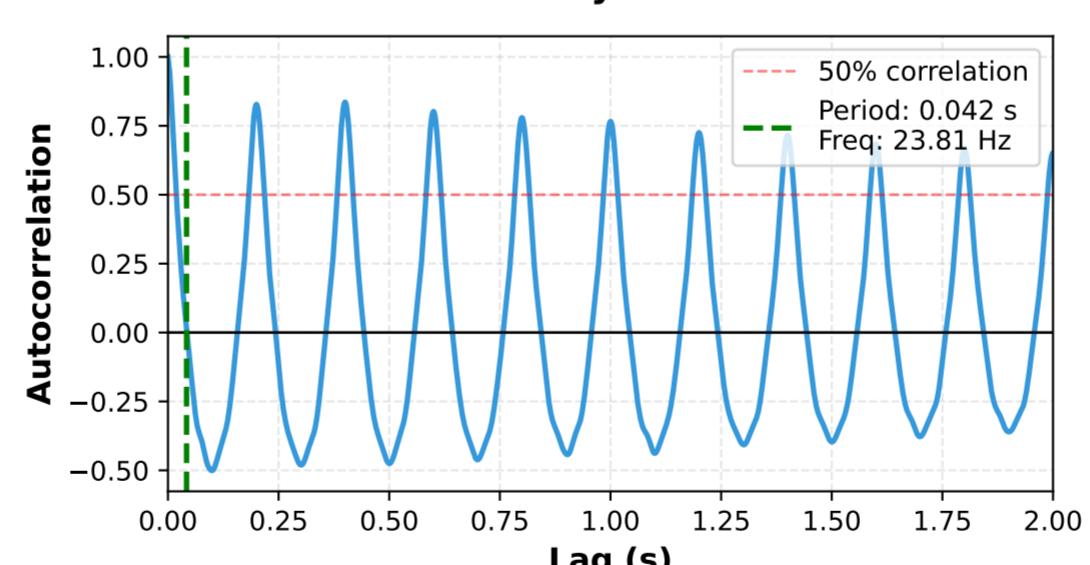
(E) Spectrogram: Time-Frequency Analysis
Evolution of Spectral Content



(F) Instantaneous Frequency
Phase-Derived Analysis



(G) Autocorrelation Function
Periodicity Detection



OSCILLATORY TEST ANALYSIS	
TIME DOMAIN STATISTICS:	
Duration:	10.00 s
Sampling rate:	1000 Hz
Data points:	10,000
Mean:	-0.022253
Std deviation:	0.994159
RMS:	0.994408
Peak-to-peak:	5.277739
Minimum:	-2.568704
Maximum:	2.709036
Crest factor:	2.7243
Form factor:	1.2249
Peaks detected:	52
Zero crossings:	58
FREQUENCY DOMAIN:	
Dominant frequency:	4.8828 Hz
Bandwidth (3dB):	0.0000 Hz
Harmonics detected:	4
THD:	64.39%
Fundamental power:	4.01e-01
Total power:	1.03e+00
PHASE ANALYSIS:	
Mean inst. freq:	9.0015 Hz
Std inst. freq:	38.9451 Hz
Freq modulation:	976.0034 Hz
PERIODICITY:	
Estimated period:	0.042 s
Estimated frequency:	23.809523809523807 Hz
Autocorr at T:	0.014595939720707924
SIGNAL QUALITY:	
SNR estimate:	19.95 dB
Noise level:	0.100000
Signal/Noise ratio:	9.94