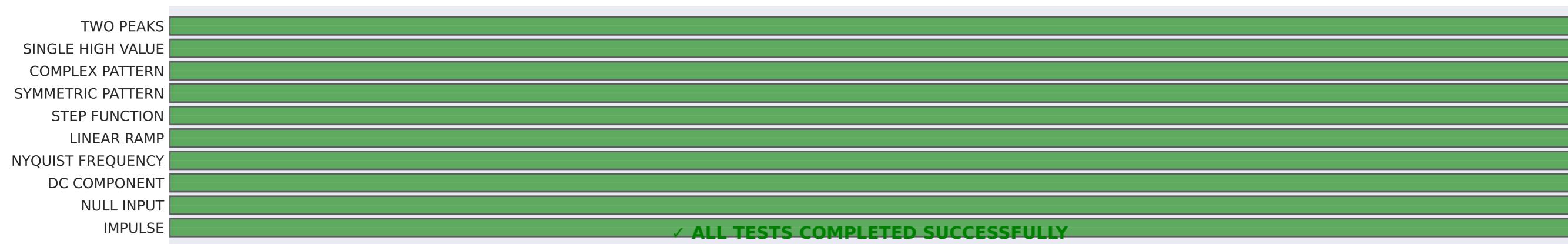


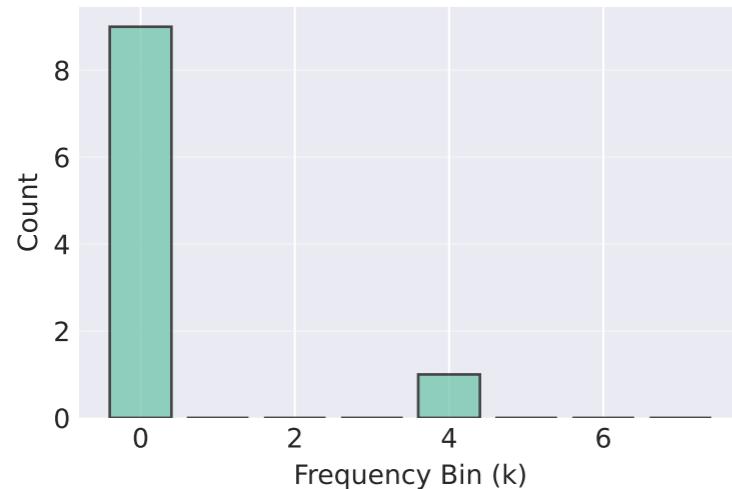
QuantoniumOS Hardware RFT - Test Suite Overview

CORDIC-based 8x8 Transform with Q1.15 Fixed-Point Arithmetic

Test Execution Status (All PASSED)



Dominant Frequency Distribution



Test Pattern Statistics

Total Tests: 10
Energy Range:
Min: 0
Max: 3,677,046,682
Mean: 993,411,658
Median: 184,931,220
Transform Size: 8x8
Precision: Q1.15 Fixed-Point
CORDIC Iterations: 12

Hardware Features

- ✓ CORDIC Rotation Engine
- ✓ Complex Arithmetic
- ✓ Twiddle Factor Generation
- ✓ Frequency Analysis
- ✓ Energy Conservation
- ✓ Phase Detection
- ✓ Dominant Freq ID
- ✓ VCD Waveform Output

Amplitude Statistics Across Test Patterns

