

Certificate of Calibration

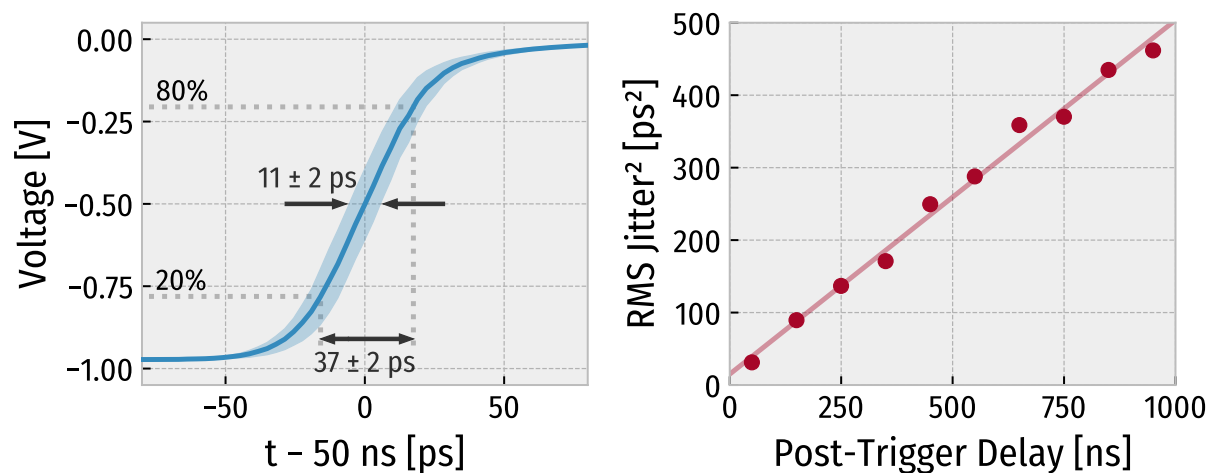
This document certifies that your GigaWave™ 6400 oscilloscope (Serial #0008) was calibrated on 2024-01-27 and meets or exceeds specifications.

Parameter	Minimum	Typical	Maximum	Measured
Rise Time (20–80%)	—	40 ps	50 ps	37 ± 2 ps
Equivalent Bandwidth (0.35/τ)	7.0 GHz	8.8 GHz	—	9.5 ± 0.6 GHz
RMS Jitter				
Intrinsic Trigger Jitter	—	4 ps	8 ps	3.9 ± 1.2 ps
Delay-Induced Jitter (α)*	—	0.5 ps ² /ns	—	0.489 ± 0.016 ps²/ns
Total Harmonic Distortion (Full-Scale)				
100 MHz Sine Wave	—	-55 dB	-50 dB	-58.4 ± 0.3 dB
1 GHz Sine Wave	—	-40 dB	-30 dB	-37.88 ± 0.12 dB
Effective Number of Bits (Full-Scale)				
100 MHz Sine Wave	8.0	8.5	—	9.13 ± 0.04
1 GHz Sine Wave	5.0	5.5	—	5.95 ± 0.02

Calibration specified for Channel 1. Other channels meet or exceed specified performance.

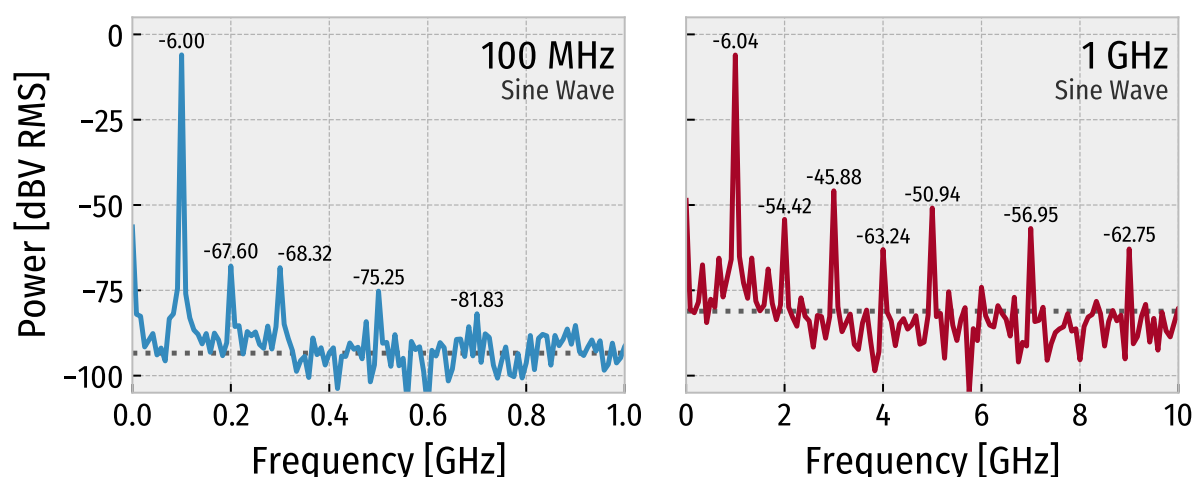
*See Theory of Operation §2.3 in User Manual for details.

Risetime/Jitter Calibration



Source risetime 28.4 ps @ 10 MHz repetition rate. Falling edge trigger @ -500 mV.

THD/ENOB Calibration



FFT is illustrative only. Harmonics and noise power are obtained from time-domain fit.