

Infiniium Scope Report

Setup

Scope Configuration

Oscilloscope Model	DSO90804A
Software Revision	06.20.00701
Serial Number	MY51500102
Calibration Status	calibrated

Calibration

Frame Calibration Status

Category	Status	Temp	Date
Calibration	Calibrated	1.4°C	7 MAY 2018 13:20:51
TimeScale	Calibrated	1.4°C	7 MAY 2018 13:20:51

Channel Calibration Status

Connector	Vertical	Trigger
1:data_out	Passed	Passed
2:clk	Passed	Passed
Channel 3	Passed	Passed
Channel 4	Passed	Passed
Aux		Passed

Acquisition

Sampling Mode	Real Time
Acquisition Mode	Normal
Acquisition Bit Resolution	Automatic
Sin(x)/x Interpolation	On (16 pts)
Sampling Rate	40.0 GSa/s
Memory Depth	1000 pts

Horizontal Setup

Scale	2.00 ns/
Position	0.0 s
Reference	50%

Individual Channel Bandwidth Limits

Channel	Limit Type	Bandwidth Limit	Limit Filter
1:data_out	Off	8.00 GHz	Brick Wall
2:clk	Off	8.00 GHz	Brick Wall

Channel Setup

Channel	Invert	Signal Type	Scale	Offset	Skew	Impedance	Coupling
1:data_out	Off	Unspecified	840 mV/	-830 mV	0.0 s	50 Ω	DC
2:clk	Off	Unspecified	750 mV/	2.22 V	0.0 s	50 Ω	DC

Trigger Setup

Mode	Setup
	Sweep Auto, Sensitivity Low, Holdoff Time 100 ns, Edge, Source 1:data_out, Level 1.40 V, Slope Rising

General Thresholds

Applied To	Threshold Type	Information
All Waveforms	Threshold: 10%,50%,90% of top, base	Top/Base: Standard

Rise/Fall Thresholds

Applied To	Threshold Type	Information
All Waveforms	Threshold: 10%,90% of top, base	Top/Base: Standard

Measurement Setup

Measurement	Source 1	Source 2	Setup
Hist hits(h)	Histogram		
Hist std dev(h)	Histogram		
Hist mean(h)	Histogram		
Hist max(h)	Histogram		
Hist min(h)	Histogram		

Analysis Setup

Histogram Setup

Source	2:clk
Size	1.0 div
Orientation	Horizontal
Max Bins	1000
Top	1.40001 V
Bottom	1.40000 V
Left	-2.26440 ns
Right	-888.00 ps

Results



Measurements Results

Measurement	Current
Hist hits(h)	24.733 khits
Hist std dev(h)	51.3836 ps
Hist mean(h)	-1.44312065 ns
Hist max(h)	-1.32813 ns
Hist min(h)	-1.78125 ns

Histogram Results

Histogram	Value
Y scale	3.806 khits/
Y offset	0 hits
Hist mean	-1.44312065 ns
Hist std dev	51.3836 ps
Hist $\mu \pm 1\sigma$	73.1%
Hist $\mu \pm 2\sigma$	96.3%
Hist $\mu \pm 3\sigma$	99.1%
Hist p-p	453.13 ps
Hist FWHM	73.81 ps
Hist min	-1.78125 ns
Hist max	-1.32813 ns
Bin width	15.63 ps
Hist median	-1.43750 ns
Hist mode	-1.42188 ns
Hist hits	24.733 khits
Hist peak	3.806 khits