



COMPLIANCE PROGRAM

TEST REPORT

PCI Express Partial Test Report For Host

Company Name: NXP Semiconductors Inc.

Model Name: MCIMX7D

Product Receive Date: 05/27/2016

Report Date: 05/30/2016

Test Result: **PASS**

Tester: Terry Kao

Authorized Signature: *Eric Chen*



Legal Disclaimer

1. TEST RESULT IS VALID ONLY TO THE ORIGINAL TESTED DEVICE MODEL. ALLION RESERVES THE RIGHT TO PROHIBIT OTHERS TO DISTORT, ISOLATE, FALSIFY, COPIED AND/OR BY ANY PROCESS TO CHANGE THE CONTENT OF THIS TEST REPORT UNLESS IT IS PRIOR APPROVED BY ALLION.



Company Information:

Company

Company Name: NXP Semiconductors Inc
Company Address: No.192 Liangjing Rd. Pudong New Area, Shanghai
201203, P.R.China

Product Information

Support Specification: **PCIe 2.0 (5GT Capable)**

System BIOS: Linux Kernel version 4.10

PCIe Slot Information:

Number of x1 Slot: Number of x4 Slot:

Number of x8 Slot: Number of x16 Slot:

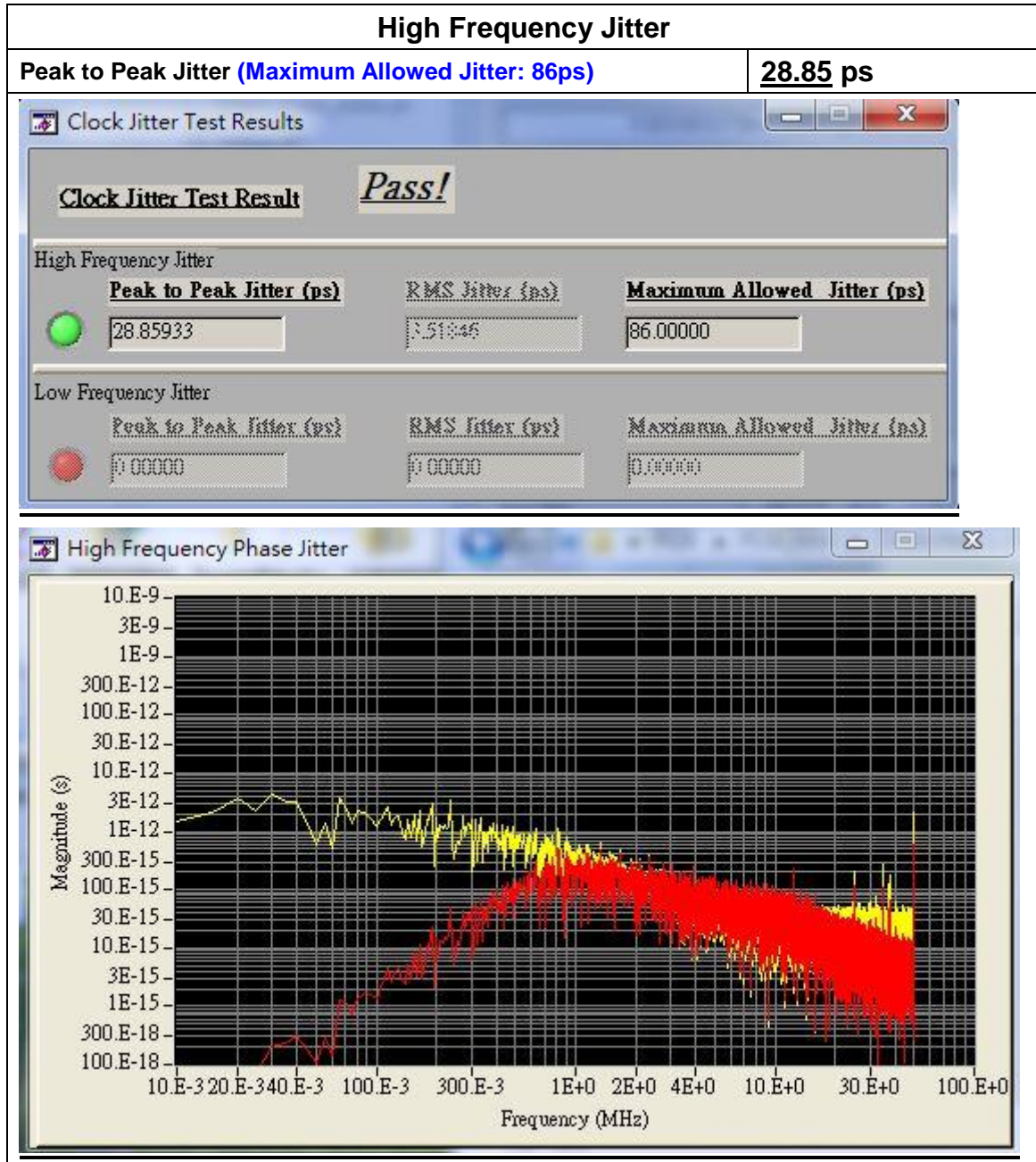


TX Electrical Testing Result: **Pass** **Fail**

	x1				
	Lane0	Lane3	Lane7	Lane11	Lane15
2.5GT/s	Pass				
5GT/s(-3.5dB)	Pass				
5GT/s(-6dB)	Pass				
8GT/s w/P0					
8GT/s w/P1					
8GT/s w/P2					
8GT/s w/P3					
8GT/s w/P4					
8GT/s w/P5					
8GT/s w/P6					
8GT/s w/P7					
8GT/s w/P8					
8GT/s w/P9					
8GT/s w/P10					



Clock Phase Jitter: Pass Fail





TX Electrical Testing Result: Pass

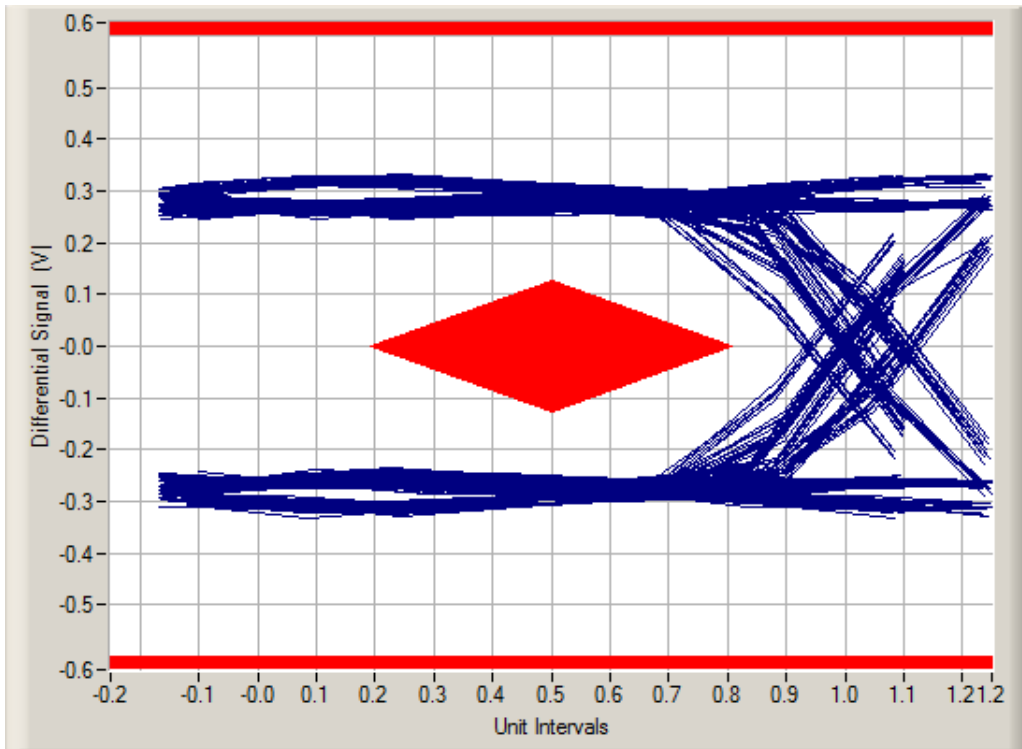
Gen1

Sigttest:

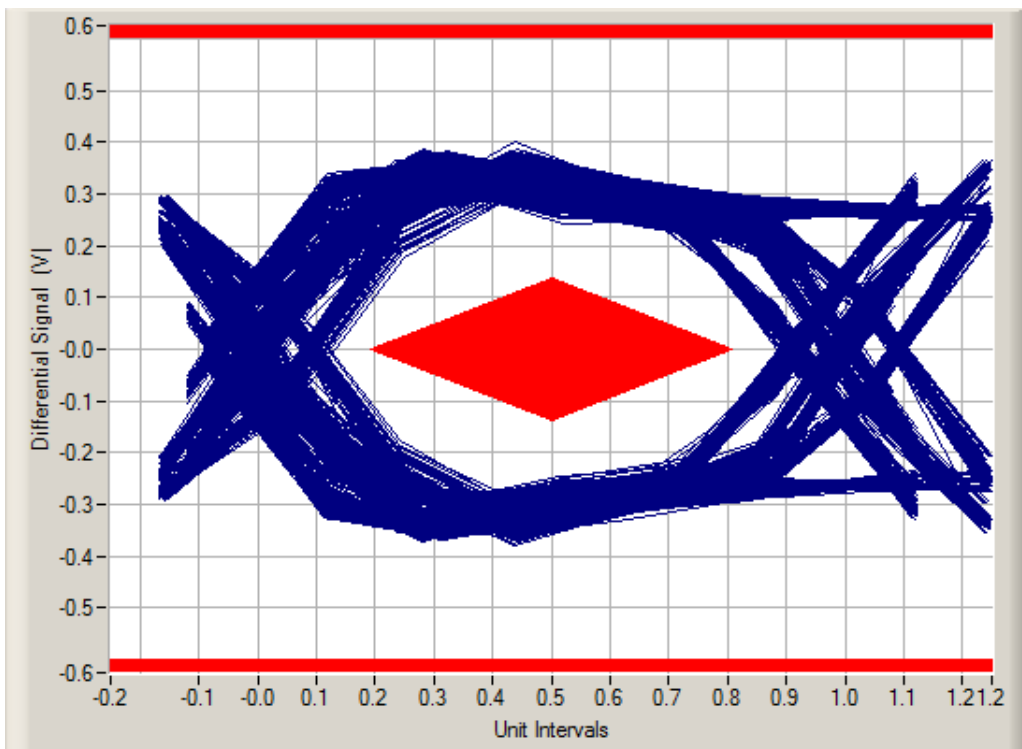
- Overall Sigttest Result: **Pass!**
- Mean Unit Interval (ps): 399.994992
Mean Unit Interval Passes Sigttest Limits!
- Max Unit Interval (ps): 400.017358
Max Unit Interval Passes Sigttest Limits!
- Min Unit Interval (ps): 399.97356
Min Unit Interval Passes Sigttest Limits!
- Min Time Between Crossovers (ps): 343.941428
Min Time Between Crossovers Passes Sigttest Limits!
- Data Rate (Gb/s): 2.500031
- Per Edge RMS Jitter (ps): 23.051042
- Mean Median to Peak Jitter: 41.133001 ps
Mean Median to Peak Jitter Passes Sigttest Limits!
- Max Median to Peak Jitter: 53.229026 ps
Max Median to Peak Jitter Passes Sigttest Limits!
- Min Median to Peak Jitter: 26.364029 ps
Min Median to Peak Jitter Passes Sigttest Limits!
- Mean Peak to Peak Jitter: 61.059692 ps
Mean Peak to Peak Jitter Passes Sigttest Limits!
- Max Peak to Peak Jitter: 73.126695 ps
Max Peak to Peak Jitter Passes Sigttest Limits!
- Minimum eye width: 326.873305 ps
- Min Peak to Peak Jitter: 50.239575 ps
Min Peak to Peak Jitter Passes Sigttest Limits!
- Minimum Transition Eye Voltage: -0.388 volts
Minimum Transition Eye Voltage Passes Sigttest Limits!
- Maximum Transition Eye Voltage: 0.4 volts
Maximum Transition Eye Voltage Passes Sigttest Limits!
- Minimum Non Transition Eye Voltage: -0.334 volts
Minimum Non Transition Eye Voltage Passes Sigttest Limits!
- Maximum Non Transition Eye Voltage: 0.34 volts
Maximum Non Transition Eye Voltage Passes Sigttest Limits!



Worst Non Transition Signal Eye



Worst Transition Signal Eye





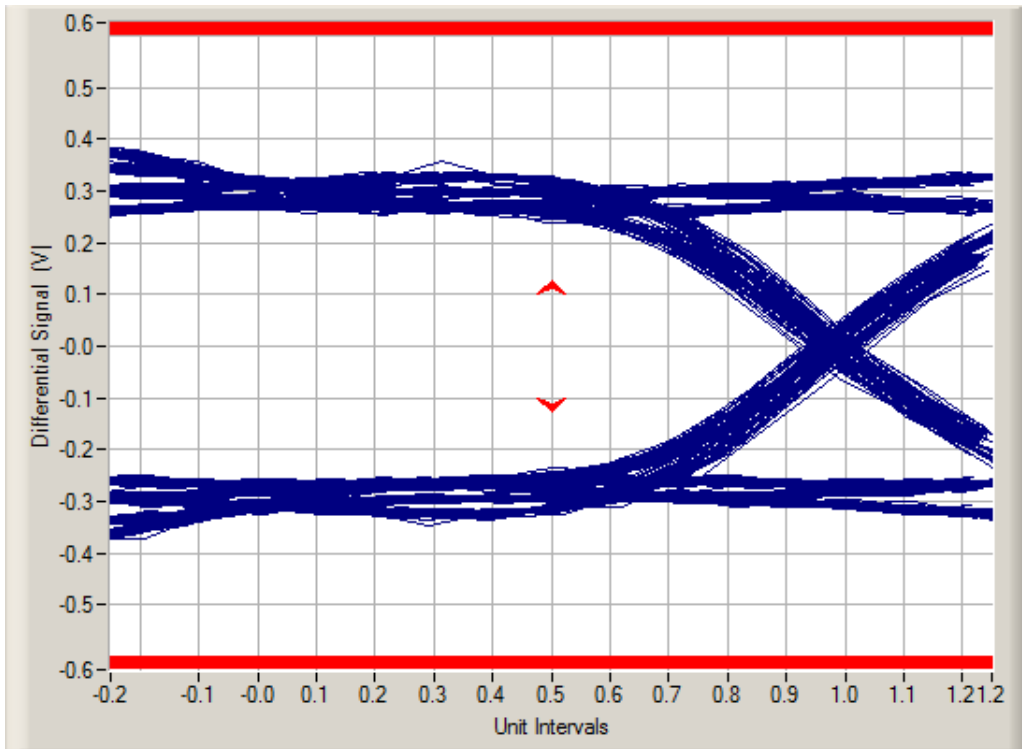
Gen2_3.5db

Sigttest:

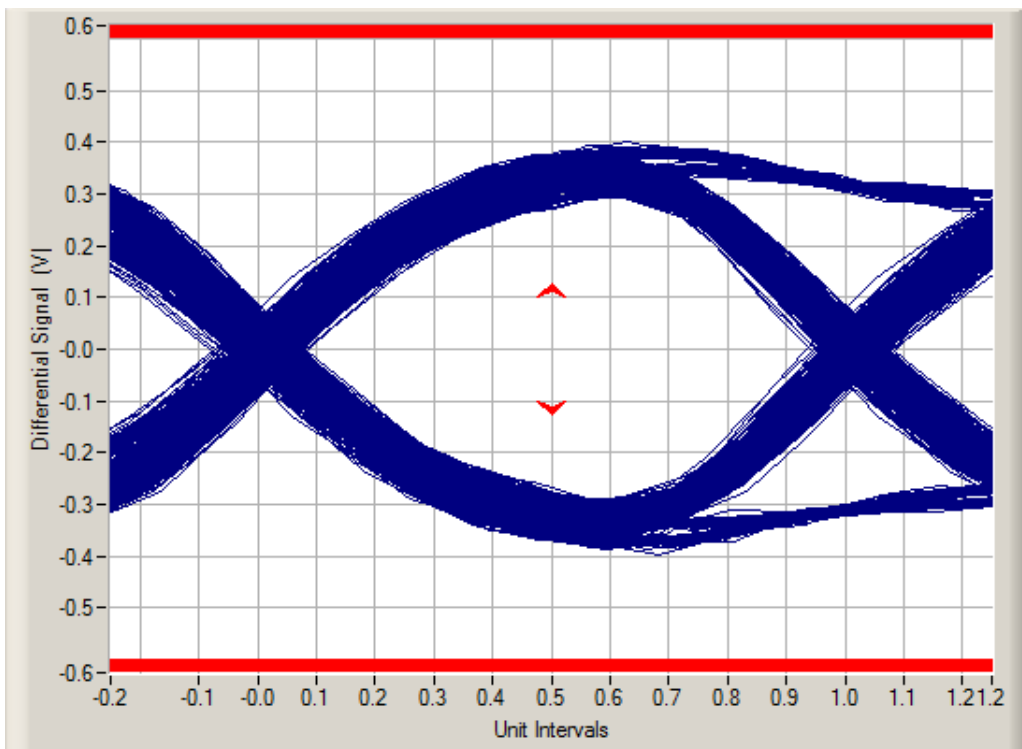
- Overall Sigttest Result: **Pass!**
- Mean Unit Interval (ps): 199.997494
- Min Time Between Crossovers (ps): 189.023569
- Data Rate (Gb/s): 5.000063
- Max Peak to Peak Jitter: 35.518135 ps
- Total Jitter at BER of 10E-12: 43.8549 ps
Total Jitter at BER of 10E-12 Passes Sigttest Limits!
- Minimum eye width: 156.1451 ps
- Deterministic Jitter Delta-Delta: 14.677065 ps
Deterministic Jitter Delta-Delta Passes Sigttest Limits!
- Random Jitter (RMS): 2.075237 ps
Random Jitter (RMS) Passes Sigttest Limits!
- Minimum Transition Eye Voltage: -0.398 volts
Minimum Transition Eye Voltage Passes Sigttest Limits!
- Maximum Transition Eye Voltage: 0.402 volts
Maximum Transition Eye Voltage Passes Sigttest Limits!
- Minimum Non Transition Eye Voltage: -0.346 volts
Minimum Non Transition Eye Voltage Passes Sigttest Limits!
- Maximum Non Transition Eye Voltage: 0.356 volts
Maximum Non Transition Eye Voltage Passes Sigttest Limits!



Worst Non Transition Signal Eye



Worst Transition Signal Eye





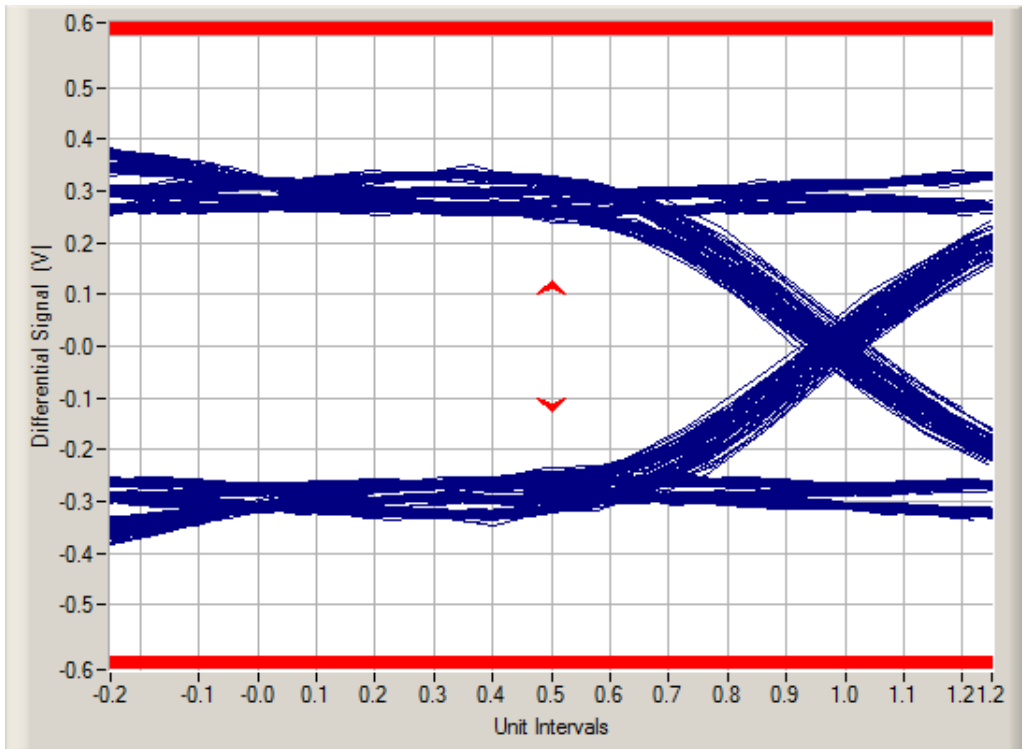
Gen2_6db

Sigtest:

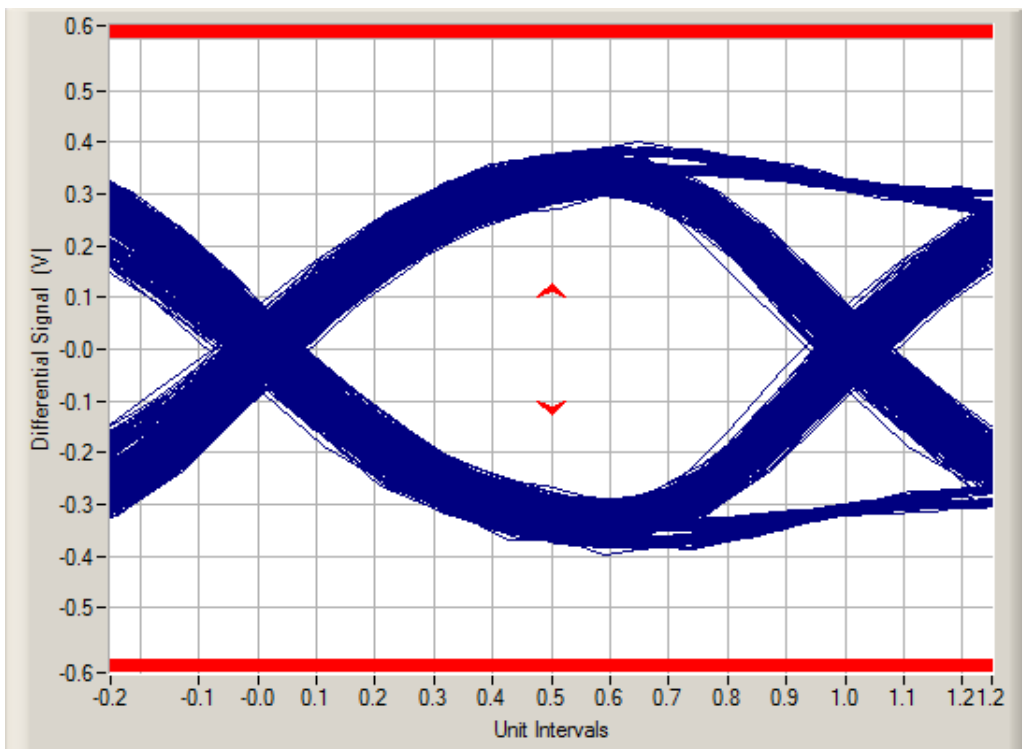
- Overall Sigtest Result: **Pass!**
- Mean Unit Interval (ps): 199.997518
- Min Time Between Crossovers (ps): 189.433963
- Data Rate (Gb/s): 5.000062
- Max Peak to Peak Jitter: 37.182393 ps
- Total Jitter at BER of 10E-12: 43.910831 ps
Total Jitter at BER of 10E-12 Passes Sigtest Limits!
- Minimum eye width: 156.089169 ps
- Deterministic Jitter Delta-Delta: 14.933298 ps
Deterministic Jitter Delta-Delta Passes Sigtest Limits!
- Random Jitter (RMS): 2.060991 ps
Random Jitter (RMS) Passes Sigtest Limits!
- Minimum Transition Eye Voltage: -0.398 volts
Minimum Transition Eye Voltage Passes Sigtest Limits!
- Maximum Transition Eye Voltage: 0.402 volts
Maximum Transition Eye Voltage Passes Sigtest Limits!
- Minimum Non Transition Eye Voltage: -0.346 volts
Minimum Non Transition Eye Voltage Passes Sigtest Limits!
- Maximum Non Transition Eye Voltage: 0.352 volts
Maximum Non Transition Eye Voltage Passes Sigtest Limits!



Worst Non Transition Signal Eye



Worst Transition Signal Eye





Notice: Test result is valid only to the original tested device model. The content of test report may not be copied or re-transmitted (except for the entire report) unless it is prior approved by Allion.