

ENET Test Report

Overall result: Fail

DUT: tokyo
Comment: RJ45-EVT1-SW--1.4.16185.7775
Time of session start: 08/24/2020 20:11:16
Operator: sunny
Temperature: 25° C
Standard in use: ENET

Session ID: 8, Continuation #: 1:

Time of run: 2020/08/24 20:11:18
Configuration in use: 100BASE-TX All tests
Limits in use: Default
Oscilloscope Name: LCRY2801N55849 Model: WR640ZI
Oscilloscope Serial #: LCRY2801N55849
Computer: LCRY2801N55849
Oscilloscope firmware version: 9.2.0.4 (Build 278085)
QualiPHY core version: 9.2.0.3 (Build 277958)

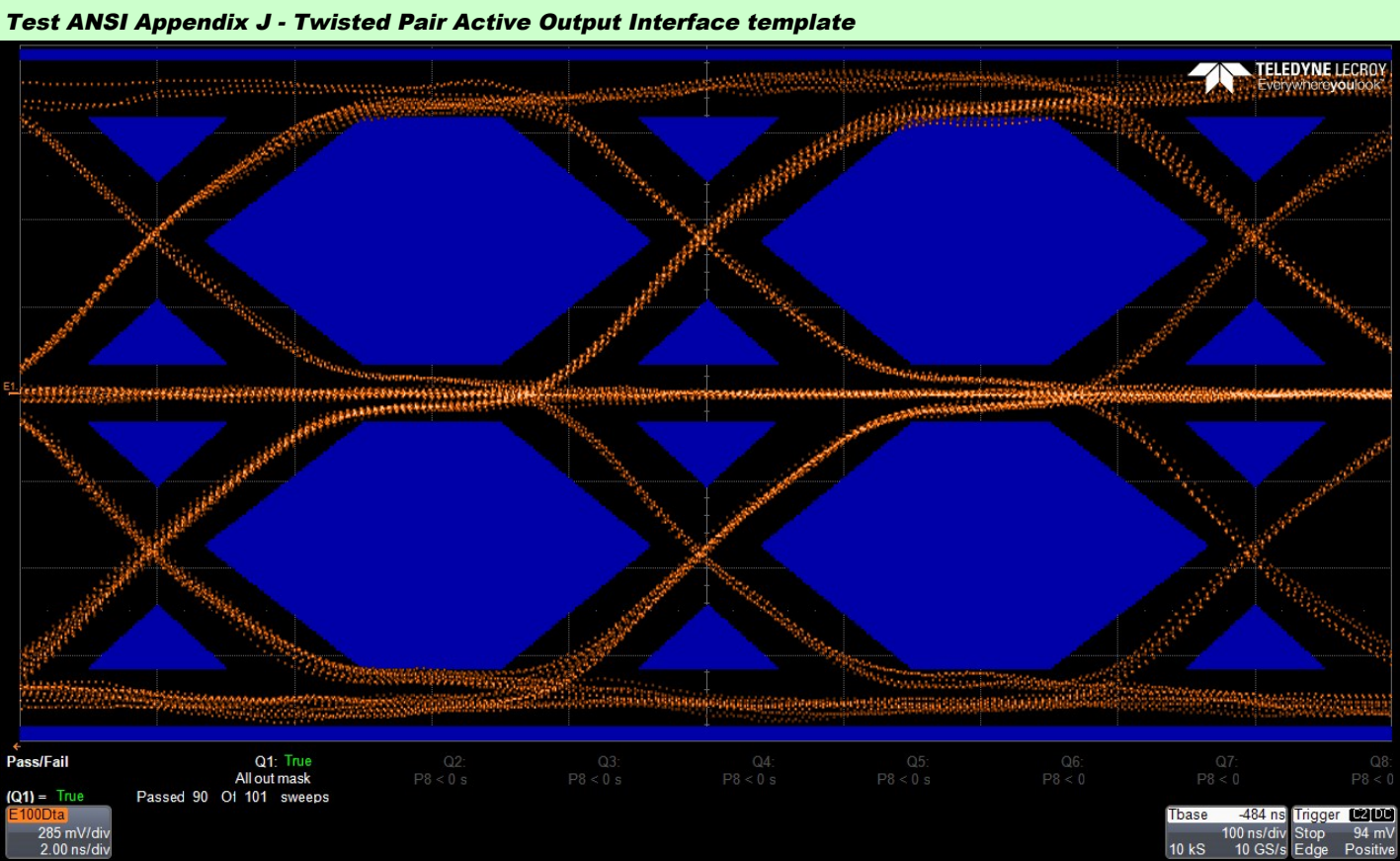
QualiPHY script version: 9.2.0.3
Stylesheet version: 1.2.0.8

Summary Table

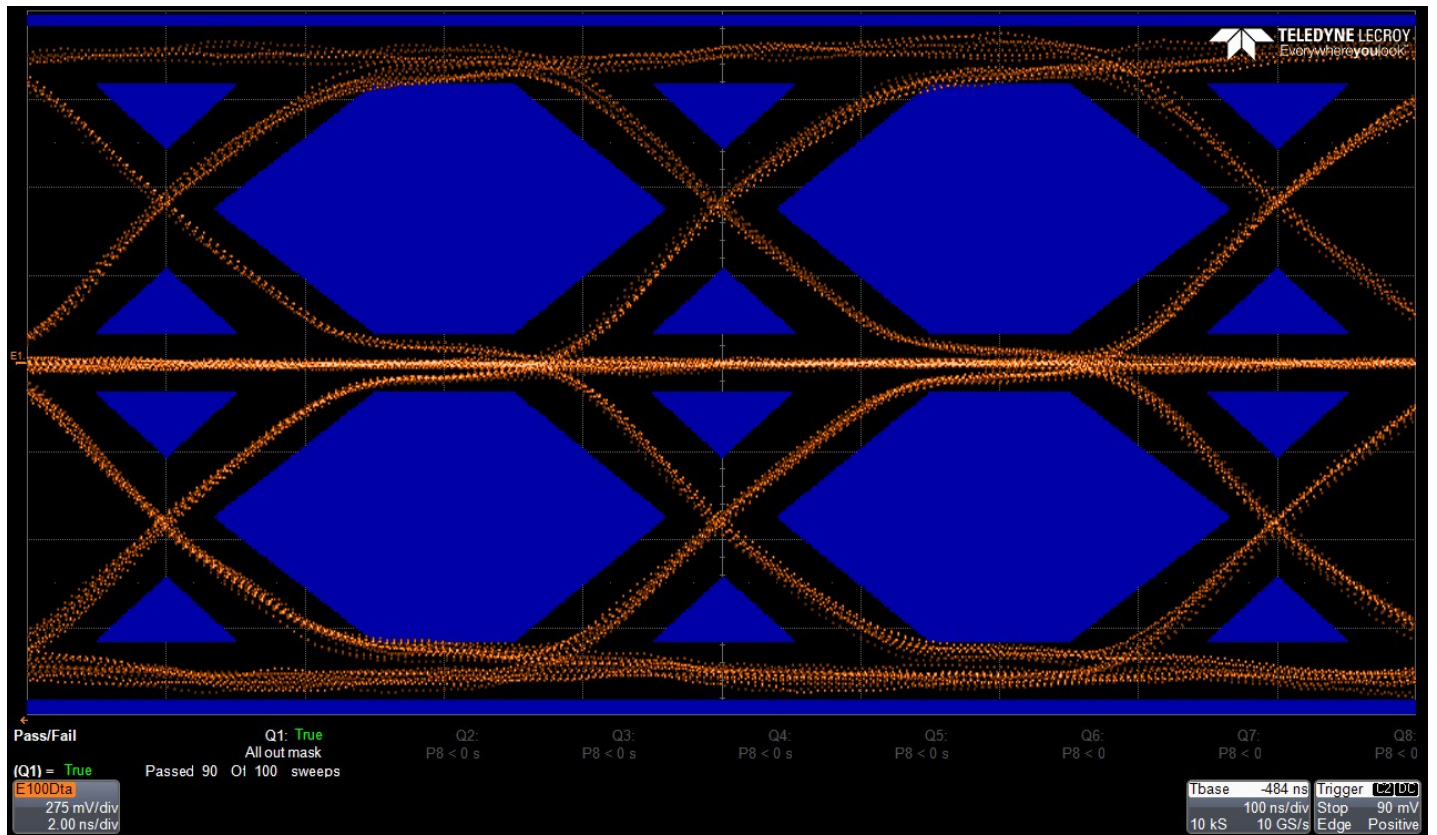
[\[Hide Table\]](#)

Pass	#	Test	Measurement	Current Value	Test Criteria
	1	ANSI Appendix J	Twisted Pair Active Output Interface template	LastPass	match
	1	ANSI 9.1.9	Jitter Base to Upper	388 ps	$x \leq 1.400 \text{ ns}$
	1	ANSI 9.1.9	Jitter Base to Lower	424 ps	$x \leq 1.400 \text{ ns}$
	1	ANSI 9.1.2.2	UTP DOV Base to Upper	972.9 mV	$950.0 \text{ mV} < x < 1.0500 \text{ V}$
	1	ANSI 9.1.2.2	UTP DOV Base to Lower	978.4 mV	$950.0 \text{ mV} < x < 1.0500 \text{ V}$
	1	ANSI 9.1.4	Signal Amplitude Symmetry	994.5 m	$980.0 \text{ m} < x < 1.0200$
	1	Test ANSI 9.1.3	Overshoot Positive	4.1 %	$x \leq 5.0 \%$
	1	Test ANSI 9.1.3	Overshoot Negative	3.9 %	$x \leq 5.0 \%$
	1	ANSI 9.1.6	Rise Base to Upper	4.663 ns	$x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$
	1	ANSI 9.1.6	Fall Upper to Base	4.594 ns	$x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$
	1	ANSI 9.1.6	Rise Lower to Base	4.606 ns	$x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$
	1	ANSI 9.1.6	Fall Base to Lower	4.577 ns	$x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$
	1	ANSI 9.1.6	Rise/Fall Symmetry	86 ps	$x \leq 500 \text{ ps}$
	1	ANSI 9.1.8	Duty Cycle Distortion	99.7 ps	$-250.0 \text{ ps} < x < 250.0 \text{ ps}$

Details

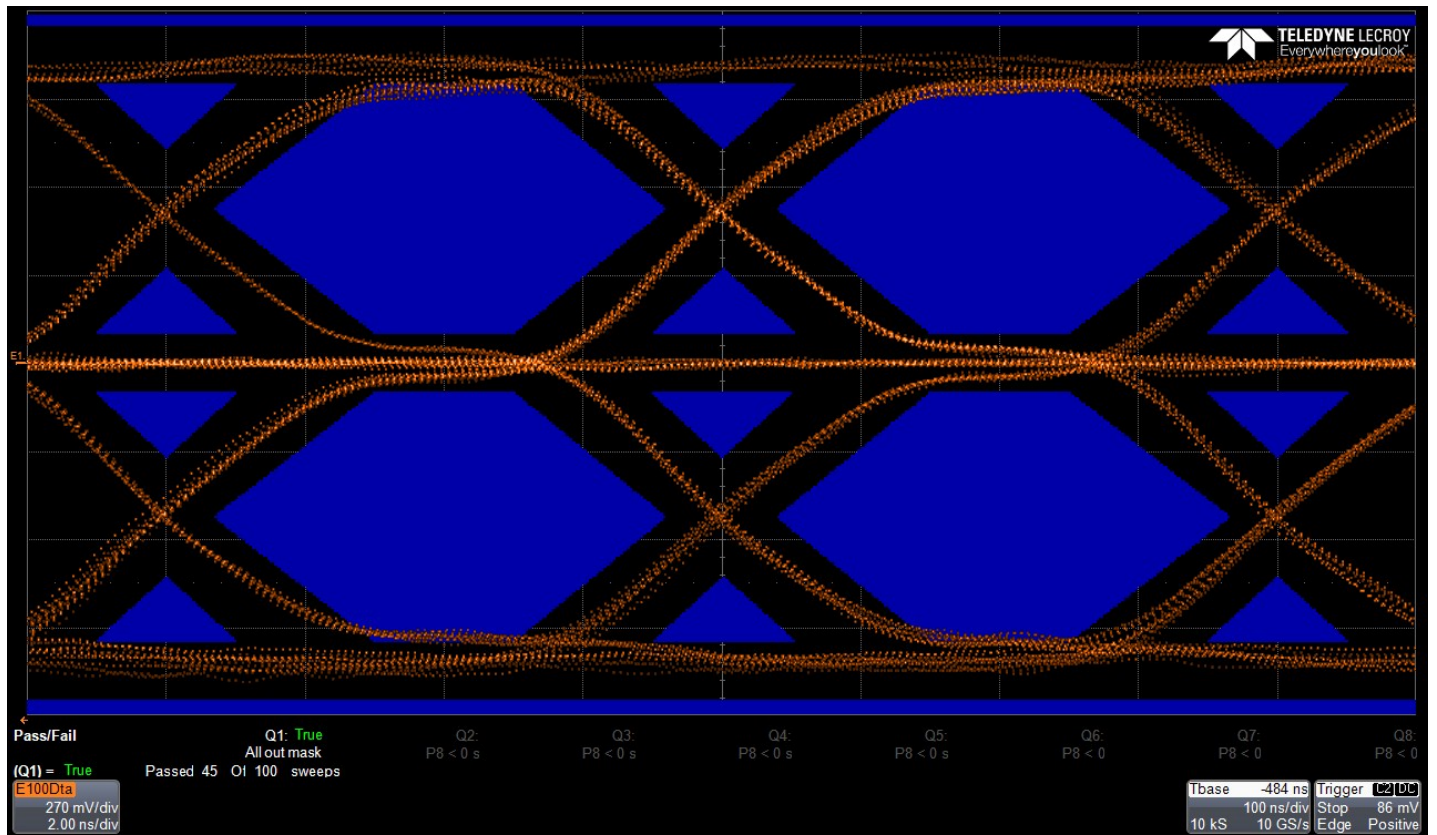


100Base-TX Template, scale factor 1.05
Timestamp: 08/24/2020 20:11:35



100Base-TX Template, scale factor 1.00

Timestamp: 08/24/2020 20:11:38



[\[Up \]](#)

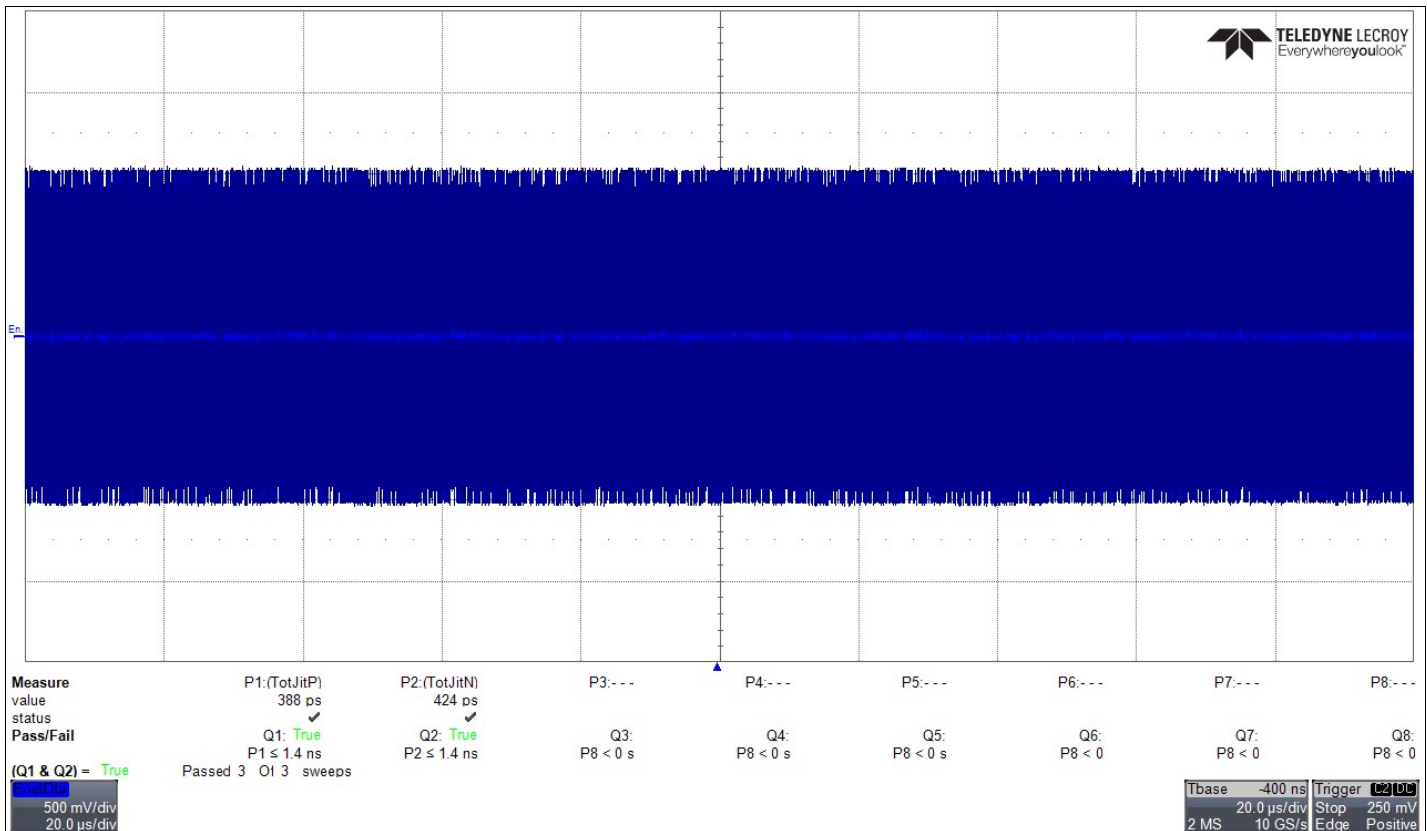
Fail	Measurement: Twisted Pair Active Output Interface template		
	Current Value: LastPass	Test Criteria: match	
	Timestamp: 08/24/2020 20:11:41	Limit Name: Mask-Test	

Test ANSI 9.1.9 - Jitter[\[Up \]](#)

Pass	Measurement: Jitter Base to Upper		
	Current Value: 388 ps	Test Criteria: $x \leq 1.400$ ns	
	Timestamp: 08/24/2020 20:11:59	Limit Name: 100BT-Jitter	

[\[Up \]](#)

Pass	Measurement: Jitter Base to Lower		
	Current Value: 424 ps	Test Criteria: $x \leq 1.400$ ns	
	Timestamp: 08/24/2020 20:11:59	Limit Name: 100BT-Jitter	

**100Base-TX Jitter**

Timestamp: 08/24/2020 20:11:59

Test ANSI 9.1.2.2 - UTP differential output voltage

[\[Up\]](#)

	Measurement: UTP DOV Base to Upper		
	Current Value: 972.9 mV	Test Criteria: $950.0 \text{ mV} < x < 1.0500 \text{ V}$	
	Timestamp: 08/24/2020 20:12:13	Limit Name: 100BT-DOV	

[\[Up\]](#)

	Measurement: UTP DOV Base to Lower		
	Current Value: 978.4 mV	Test Criteria: $950.0 \text{ mV} < x < 1.0500 \text{ V}$	
	Timestamp: 08/24/2020 20:12:13	Limit Name: 100BT-DOV	

Test ANSI 9.1.4 - Signal amplitude symmetry

[\[Up\]](#)

	Measurement: Signal Amplitude Symmetry		
	Current Value: 994.5 m	Test Criteria: $980.0 \text{ m} < x < 1.0200$	
	Timestamp: 08/24/2020 20:12:13	Limit Name: 100BT-SAS	

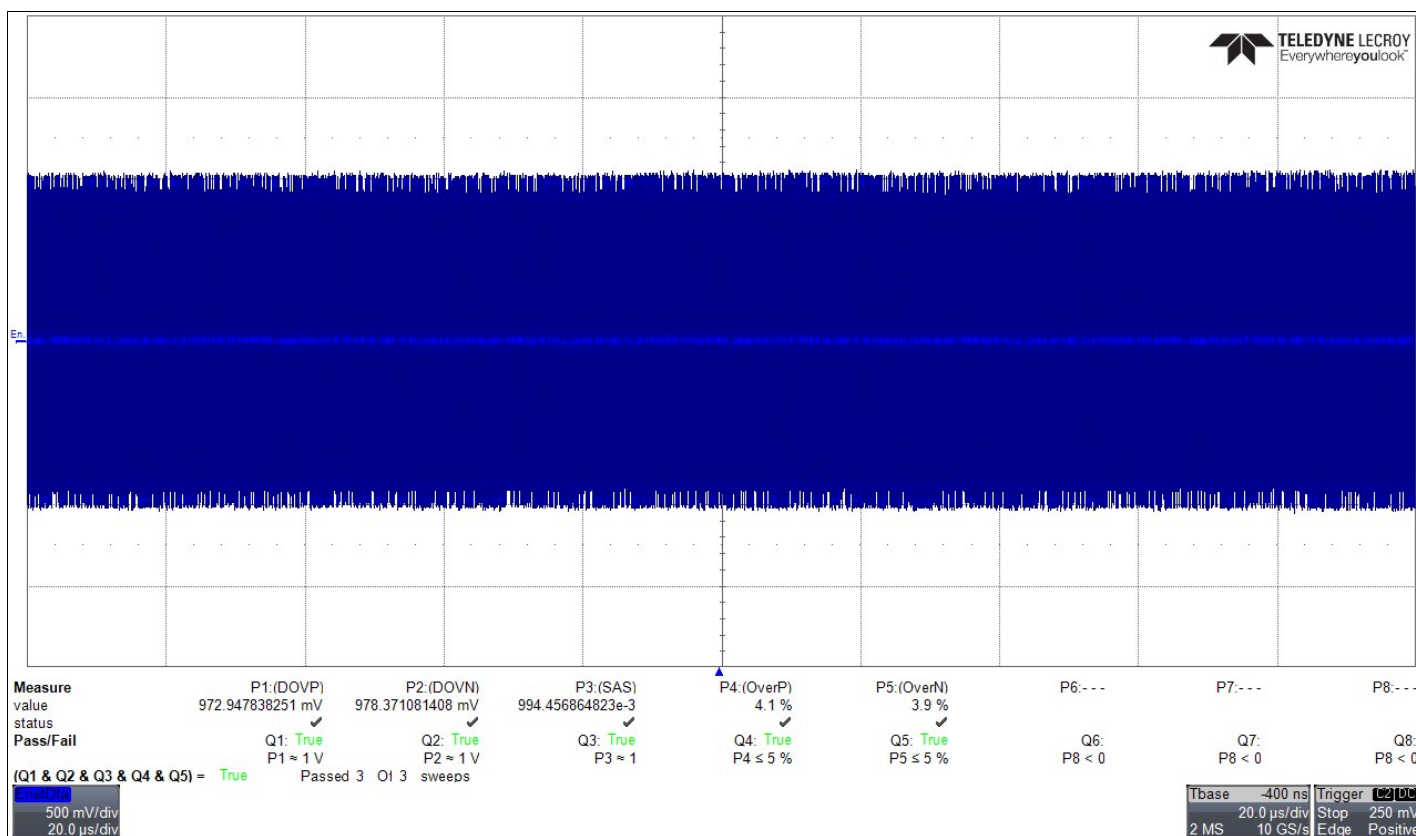
Test ANSI 9.1.3 - Waveform overshoot

[\[Up\]](#)

	Measurement: Overshoot Positive		
	Current Value: 4.1 %	Test Criteria: $x \leq 5.0 \%$	
	Timestamp: 08/24/2020 20:12:14	Limit Name: 100BT-OverP	

[\[Up\]](#)

	Measurement: Overshoot Negative		
	Current Value: 3.9 %	Test Criteria: $x \leq 5.0 \%$	
	Timestamp: 08/24/2020 20:12:14	Limit Name: 100BT-OverN	



100Base-TX Differential Output Voltage, symmetry, overshoot

Timestamp: 08/24/2020 20:12:14

Test ANSI 9.1.6 - Rise/Fall[\[Up\]](#)

 Pass	Measurement: Rise Base to Upper		
	Current Value: 4.663 ns	Test Criteria: $x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$	
	Timestamp: 08/24/2020 20:12:28	Limit Name: 100BT-URise	

[\[Up\]](#)

 Pass	Measurement: Fall Upper to Base		
	Current Value: 4.594 ns	Test Criteria: $x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$	
	Timestamp: 08/24/2020 20:12:28	Limit Name: 100BT-UFall	

[\[Up\]](#)

 Pass	Measurement: Rise Lower to Base		
	Current Value: 4.606 ns	Test Criteria: $x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$	
	Timestamp: 08/24/2020 20:12:28	Limit Name: 100BT-LRise	

[\[Up\]](#)

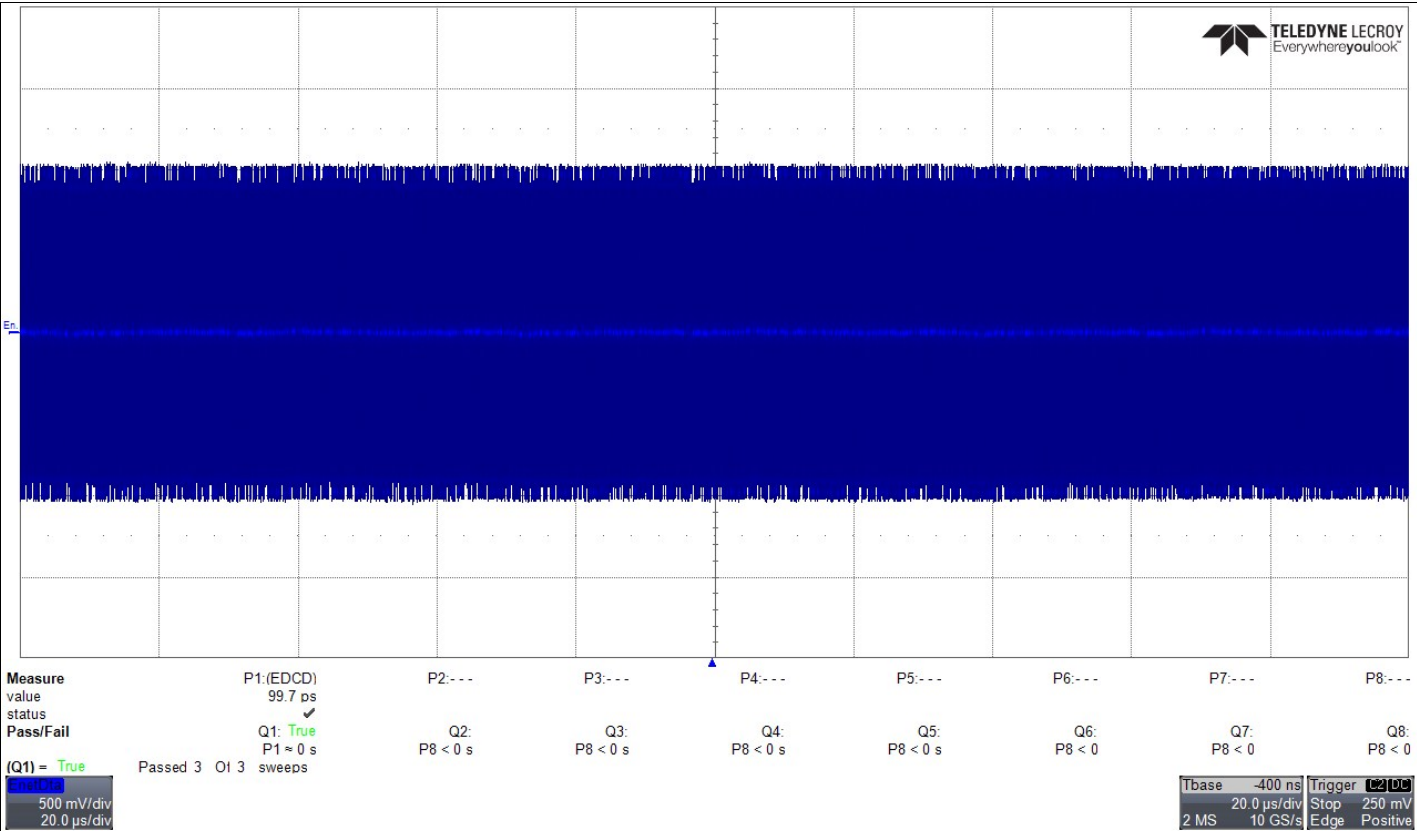
 Pass	Measurement: Fall Base to Lower		
	Current Value: 4.577 ns	Test Criteria: $x = 4.000 \text{ ns} \pm 1.000 \text{ ns}$	
	Timestamp: 08/24/2020 20:12:28	Limit Name: 100BT-LFall	

[\[Up\]](#)

 Pass	Measurement: Rise/Fall Symmetry		
	Current Value: 86 ps	Test Criteria: $x \leq 500 \text{ ps}$	
	Timestamp: 08/24/2020 20:12:28	Limit Name: 100BT-RFSymmetry	

Test ANSI 9.1.8 - Duty Cycle Distortion[\[Up\]](#)

 Pass	Measurement: Duty Cycle Distortion		
	Current Value: 99.7 ps	Test Criteria: $-250.0 \text{ ps} < x < 250.0 \text{ ps}$	
	Timestamp: 08/24/2020 20:12:49	Limit Name: 100BT-DCD	



100Base-TX Duty Cycle Distortion
Timestamp: 08/24/2020 20:12:49

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