TekExpress USB2 Report

Report for Host

Setup Information			
DUT ID	DUT001	Suite	Host
Date/Time	2025-08-27 09:33:14	TekExpress USB2	1.2.5.8
Acquisition Mode	Live	FrameWork Version	4.18.0.2
Test Point	Near End	Scope Model	MSO64B
Probing	Single Ended only	Scope Firmware	1.34.9.73
Over All Test Result	Pass		
Total Execution Time	34 Seconds		
DUT COMMENT:	General Comment - USB2-Host		

Test Name Summary Table	
Eye Diagram	Pass
EOP Width	Pass
Signal Rate	Pass
Edge Monotonicity	Pass
Rising Edge Rate	Pass
Falling Edge Rate	Pass
Rise Time	Pass
Fall Time	Pass
Consecutive Jitter	Pass
Paired JK Jitter	Pass
Paired KJ Jitter	Pass

Eye Diagram							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Mask Hits	High Speed	0.000	Pass	0.000 & 0.000	0.000	0.000	N.A
ERROR MESSAGE	N.A						

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EOP Width							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
EOP Width	High Speed	7.9 bits	Pass	0.440 bits & 0.560 bits	7.500 bits	8.500 bits	Measured Value =16.54 ns
ERROR MESSAGE	N.A						

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Signal Rate							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Signal Rate	High Speed	480.075 Mbps	Pass	0.315 Mbps & 0.166 Mbps	479.760 Mbps	480.240 Mbps	N.A
ERROR MESSAGE	N.A						

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Edge Monotonicity							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Edge Monotonicity	High Speed	0.000 mV	Pass	50.000 mV	N.A	50.000 mV	N.A
ERROR MESSAGE	N.A						

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Rising Edge Rate							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Rising Edge Rate	High Speed	1509.170 V/us	Pass	623.830 V/us	N.A	2133.000 V/us	N.A
ERROR MESSAGE	N.A						

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Falling Edge Rate							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Falling Edge Rate	High Speed	1537.920 V/us	Pass	595.080 V/us	N.A	2133.000 V/us	N.A
ERROR MESSAGE	N.A						

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Rise Time							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Rise Time	High Speed	424.070 ps	Pass	124.070 ps	300.000 ps	N.A	N.A
ERROR MESSAGE	N.A						

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Fall Time							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Fall Time	High Speed	416.150 ps	Pass	116.150 ps	300.000 ps	N.A	N.A
ERROR MESSAGE	N.A						

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Consecutive Jitter							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments

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Max Consecutive Jitter	High Speed	38.191 ps	Informative	N.A	N.A	N.A	N.A
Min Consecutive Jitter	High Speed	-31.181 ps	Informative	N.A	N.A	N.A	N.A
RMS Consecutive Jitter	High Speed	14.445 ps	Informative	N.A	N.A	N.A	N.A
ERROR MESSAGE	N.A						

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Paired JK Jitter							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Max JK Jitter	High Speed	47.680 ps	Informative	N.A	N.A	N.A	N.A
Min JK Jitter	High Speed	-44.066 ps	Informative	N.A	N.A	N.A	N.A
RMS JK Jitter	High Speed	9.199 ps	Informative	N.A	N.A	N.A	N.A
ERROR MESSAGE	N.A						

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Paired KJ Jitter							
Measurement Details	Speed	Measured Value	Test Result	Margin	Low Limit	High Limit	Comments
Max KJ Jitter	High Speed	21.501 ps	Informative	N.A	N.A	N.A	N.A
Min KJ Jitter	High Speed	-30.892 ps	Informative	N.A	N.A	N.A	N.A
RMS KJ Jitter	High Speed	6.858 ps	Informative	N.A	N.A	N.A	N.A
ERROR MESSAGE	N.A						

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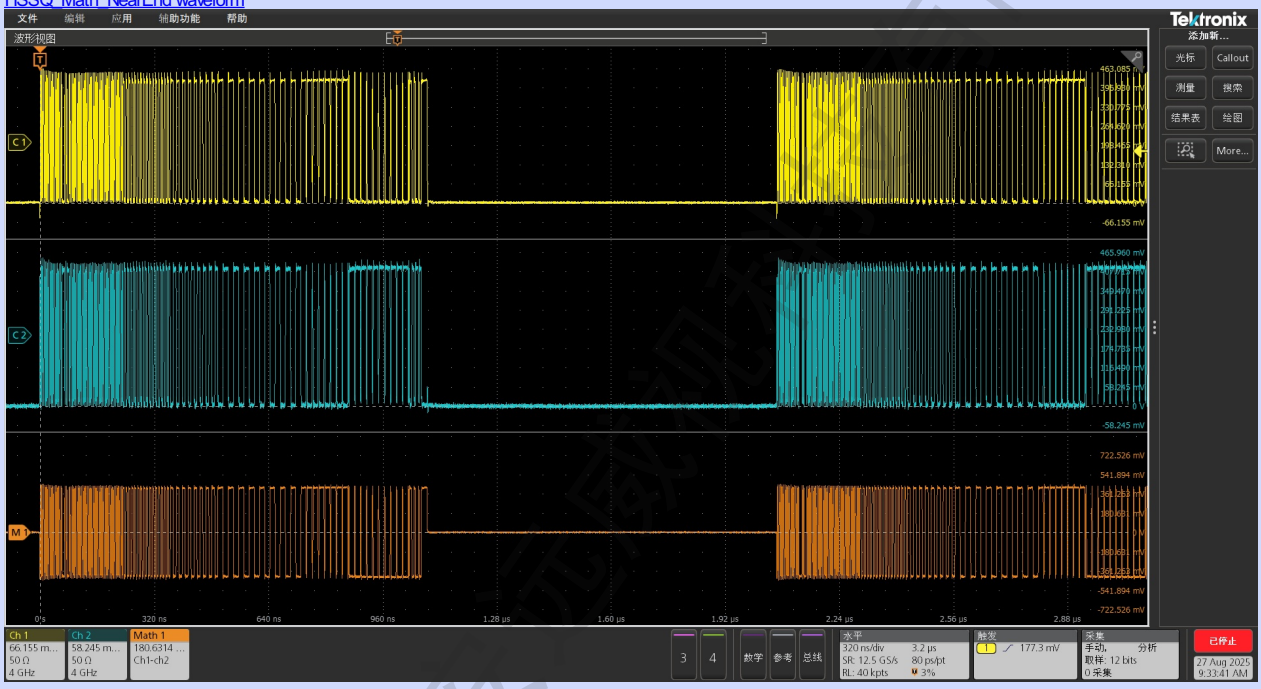
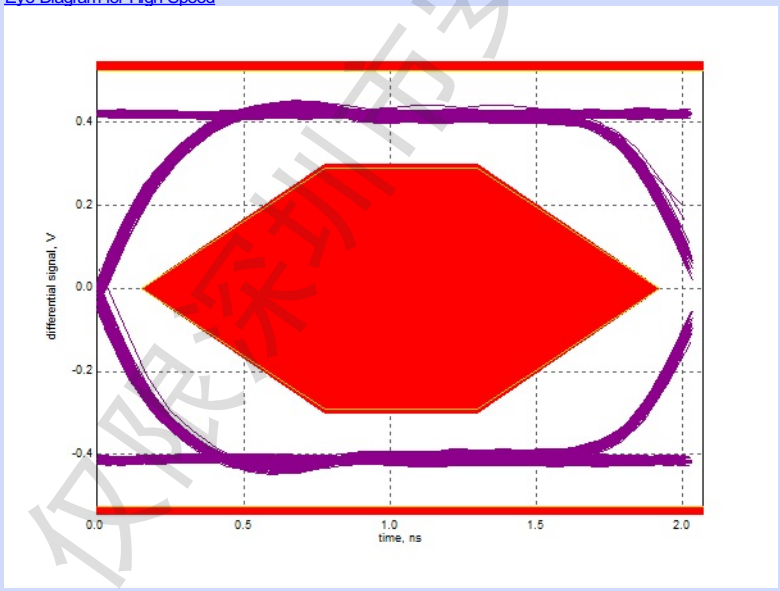
Falling Edge Rate

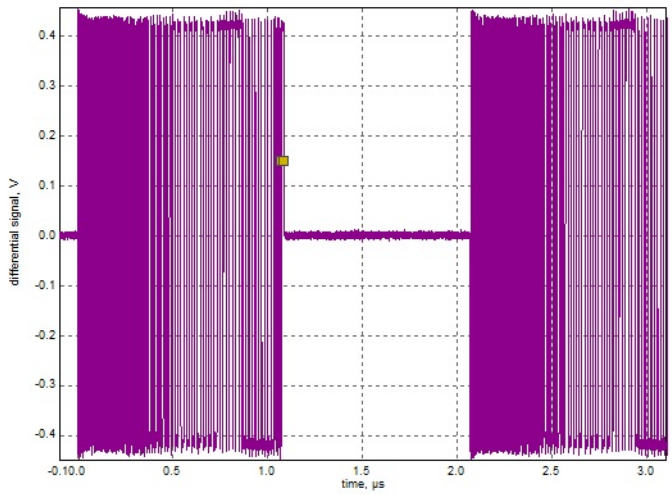
HSSQ_Math_NearEnd waveform



Eye Diagram for High Speed



Waveform Plot for High Speed



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