

## Introduction:

Litek Technologies DisplayPort cable test solution provides you with a fast and easy way to verify your DisplayPort cable to meet DisplayPort Compliance Test Specification. This solution integrates both precision test fixture and TpNA software tested with Network Analyzer (NA) and Time Domain Reflectometry (TDR) and let engineers see the interaction between time and frequency domain. The TpNA DisplayPort Engine can be easily used to control NA and TDR, following DisplayPort Compliance Test specification to test Return Loss , Insertion Loss , Near End Noise, Far End Noise, Power Sum FEN , Impedance and Skew automatically. It also outputs an Excel report file immediately that enables engineers to get a complete, fast and accurate test result and thus allowing quick troubleshooting and design



## Test Parameters:

1. Return Loss: NA 100MHz~7GHz
2. Insertion Loss: NA 100MHz~7GHz
3. Near End Noise (NEN): NA 100MHz~7GHz
4. Far End Noise (FEN): NA 100MHz~7GHz
5. Power-Sum FEN(PSFEN):NA 100MHz~7GHz
6. Cable Impedance: TDR Tr=130ps
7. Mated Connector Impedance: TDR Tr=130ps
8. Delay: TDR Tr=50ps
9. Intra-pair skew: TDR Tr=50ps
10. Inter-pair skew: TDR Tr=50ps



## Features:

1. Good Impedance match:  $100\Omega \pm 3\Omega$
2. Short Trace Length: meet DisplayPort spec.
3. Fast Rise Time: Less than 50 ps.
4. Low Intra pair skew:  $\pm 2ps$
5. Support both High Bit Rate & Low Bit Rate
6. Integrate TpNA Test Software and Fixture

## DisplayPort cable Test set:

ID	Description	Quantity	Remark
1	DisplayPort test fixture	2	
2	2X Calibration Kit	1	
3	TpNA DisplayPort Software	1	
4	RG-223 SMA coaxial cable	8	
5	SMA quick adaptor	10	
6	SMA double female	2	

## Recommended Instrument:

Network Analyzer: Agilent PNA series(N5230A)

Agilent ENA series(E5071C)

Time Domain Reflectometry: Tek DSA8200

## References:

VESA <http://www.VESA.org>

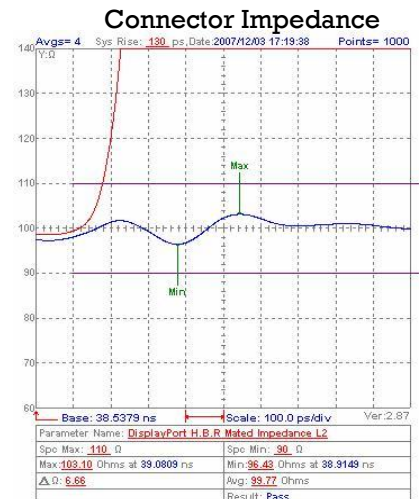
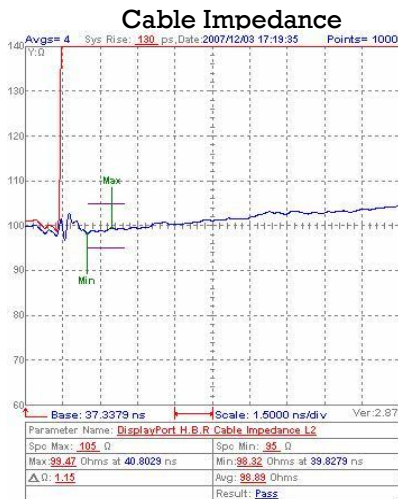
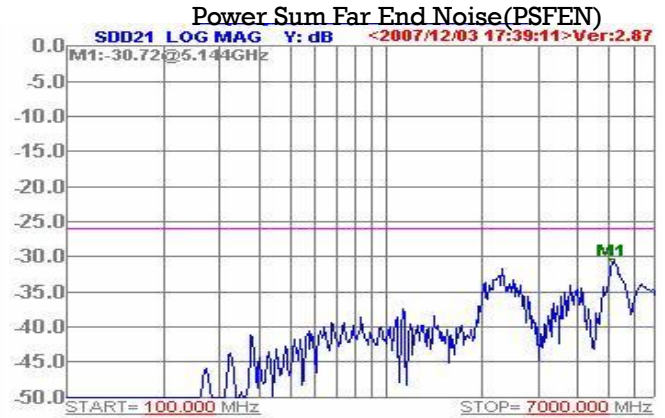
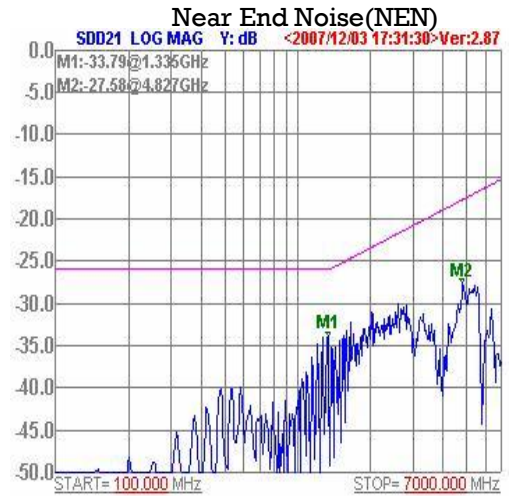
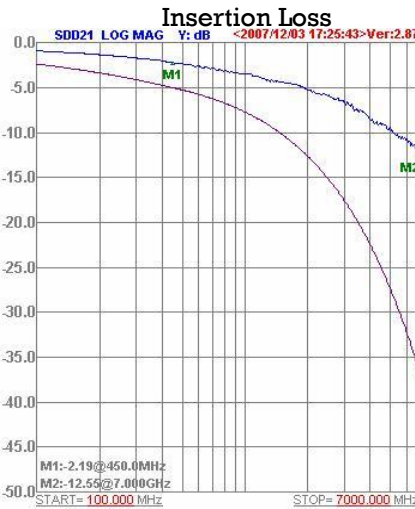
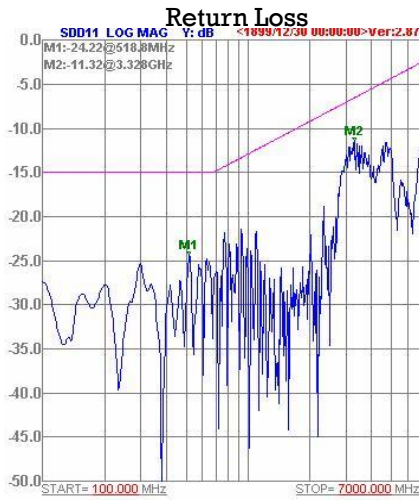
Tektronix <http://www.tek.com>

DisplayPort <http://www.displayport.org>

## LiTek Other Products:

SATA1.0&2.0,SAS,MiniSAS ,InfiniBand ,CX4 ,  
PCI-Express,HDMI 1.3 ,DVI,USB...

## DisplayPort Cable Test Report:



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