

eDP 1.2 Test Fixture

User Manual



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Product Name	Version	Date	Comments
eDP 1.2 Test Fixture Series	01	Apr.23,2019	Initial release

1. Introduction

This document describes the Dimension and electrical specification for eDP test fixture.

2. Objectives

This specification provides the requirements for test fixture performances and test methods of eDP test fixture.

3. Method of operation & Cleaning

3-1. Handling

Before each use of the test fixture, ensure that all connectors are clean.

3-2. Visual Inspection

Be sure to inspect all test fixture carefully before making a connection. Inspect all test fixture for metal particles, scratches, deformed threads, dents, or bent, broken, or misaligned center conductors. Do not use damaged test fixture.



Cleaning method

If necessary, clean the connectors using low-pressure (less than 60 PSI) compressed air or nitrogen with an effective oil-vapor filter and condensation trap. Clean the cable threads, if necessary, using a lint-free swab or cleaning cloth moistened with isopropyl alcohol. Always completely dry a connector before use. Do not use abrasives to clean the connectors. Re- inspect connectors, making sure no particles or residue remains.

3-3. Precautions

Before making any connections, review the “Handling Precautions” section.

Follow these guidelines when making connections:

- Align test fixture carefully
- Make preliminary connection lightly
- To tighten, turn connector nut only
- Do not apply bending force to test fixture
- Do not over-tighten preliminary connections
- Do not twist or screw-in test fixture
- Use an appropriately sized torque wrench (depends on SMA gender), and do not tighten past the “break” point of the torque wrench (normally set to 5 in-lbs.)

3-4. Calibration Through De-Embedding

The eDP Test Fixture are fully passive components. Therefore, calibration compensating for the losses must occur within the test instrumentation that drives the Creating S2P files. These files will soon be available to de-embed the electrical length and losses within the test fixture up to the eDP connector interface pads.



LUXSHARE-ICT Co., Ltd
eDP 1.2 Test Fixture Series

4. Testing Equipment

Item	Product Model	Name	Manufacturer
01	E5071C-TDR	300KHz~20GHz ENA Network Analyzer	Keysight
02	N4433A	200KHz~20GHz Electronic Calibration Module	Keysight
03	TDS8300+80E04	TDR with TDR and TDT module	Tektronix

5. Test Conditions

(Reference DisplayPort 1.2 specification)

Test Fixture	Part No.	S/N
eDP 1.2 Receptacle 30Pin Test Fixture	TFD-1R38B	001
eDP 1.2 Receptacle 40Pin Test Fixture	TFD-11R28	001
DP 1.2 1X,2X and SOL Calibration Board	TFD-4C98	001

Test Item:	Condition	Requirement
Eye Diagram		Eye Height :75% ISI Jitter: 5% Rise/Fall Time (10-90): 50ps
Differential Intra-pair Skew	No Filter	<5ps
Far-End Crosstalk	300KHz~10GHz	N/A
Near-End Crosstalk	300KHz~10GHz	N/A
Insertion Loss(-3dB Bandwidth)	300KHz~10GHz	5GHz@-3dB
Return Loss	300KHz~10GHz	N/A
Traces Impedance	130ps (20% - 80%)	50 $\Omega \pm 5\%$
Differential impedance of Mated Connectors	130ps (20% - 80%)	100 $\Omega \pm 10\%$
	35ps (10% - 90%)	100 $\Omega \pm 10\%$

6. Testing Result

6-1. eDP 1.2 30Pin Test Fixture

6-1-1. Eye Diagram

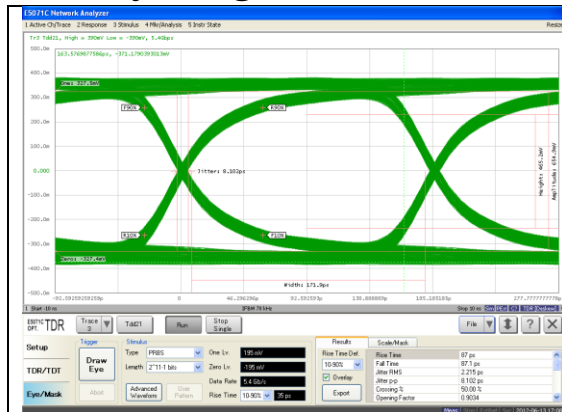


Figure 6-1. AUX Pair

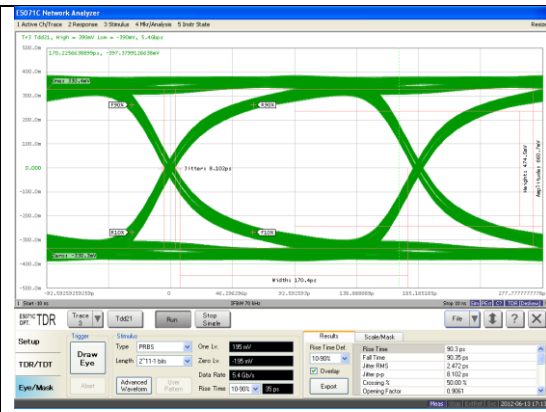


Figure 6-2. L0 Pair

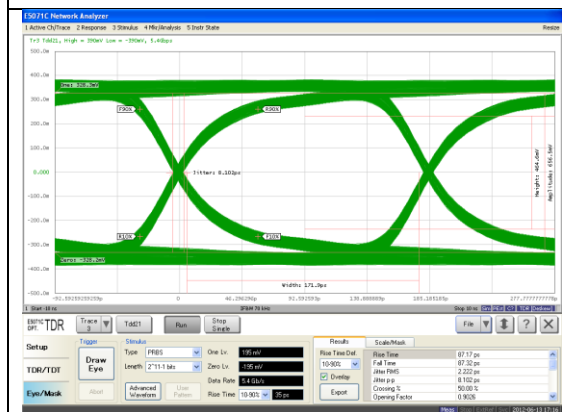


Figure 6-3. L1 Pair

6-1-2. Differential Intra-Pair Skew

Test Pair \ DUT	eDP 1.2 30Pin(Ω)	
	Result (ps)	Remark
AUX	0.87	Refer to Fig. 6-4
L0	1.64	Refer to Fig. 6-5
L1	0.80	Refer to Fig. 6-6

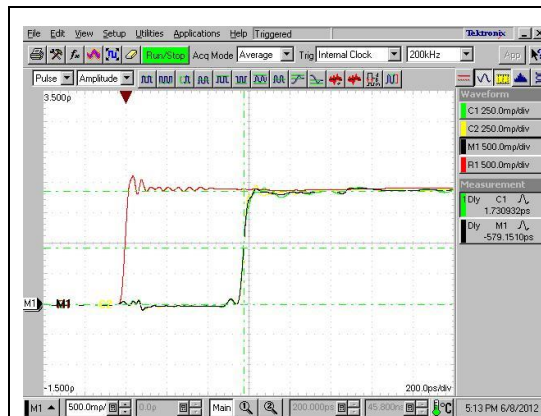


Figure 6-4. AUX Pair

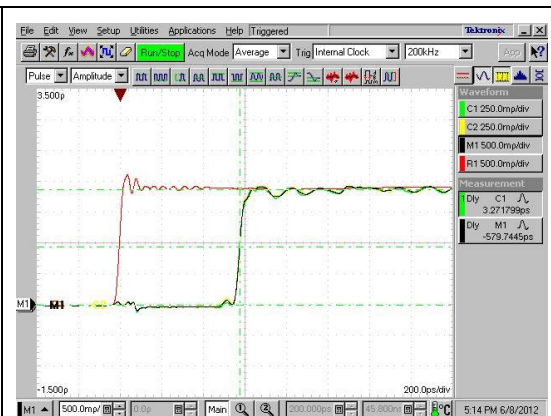


Figure 6-5. L0 Pair

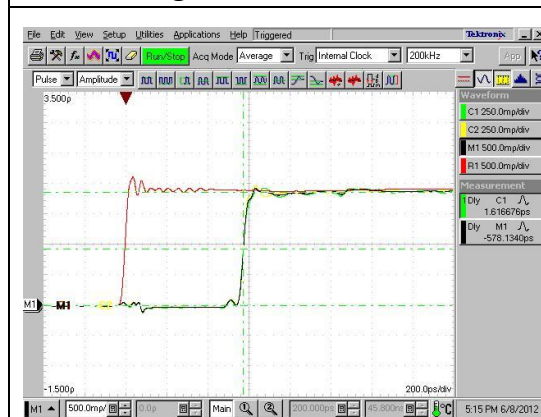
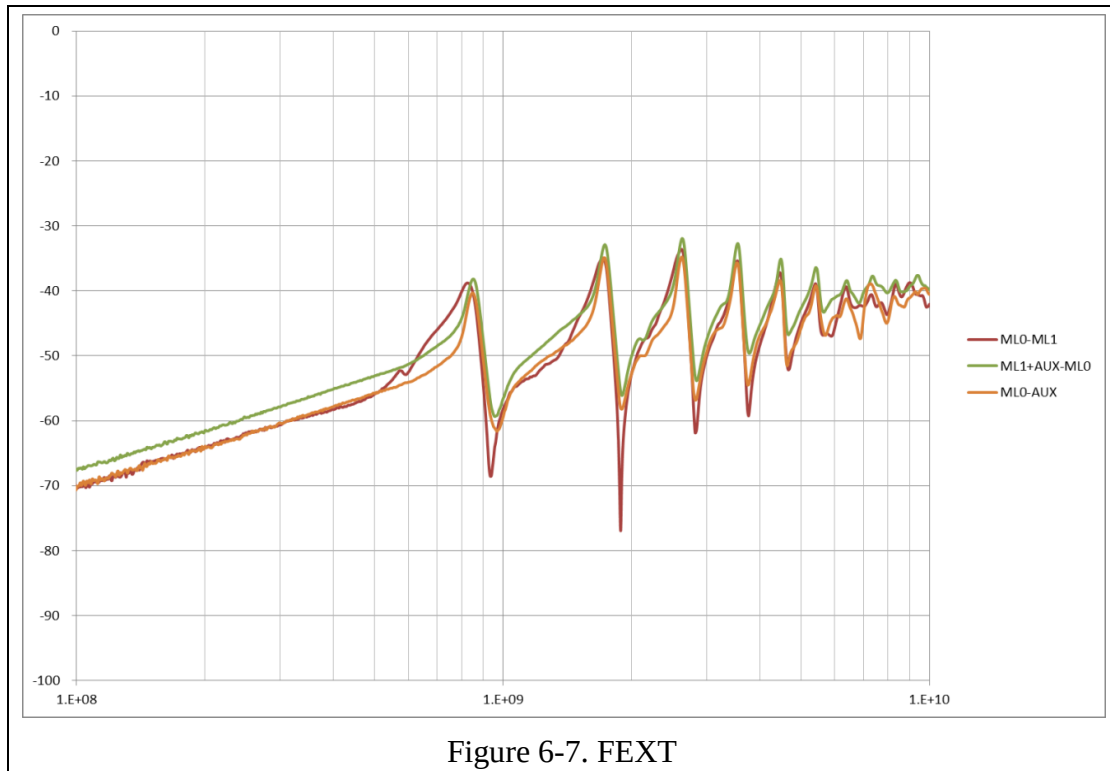
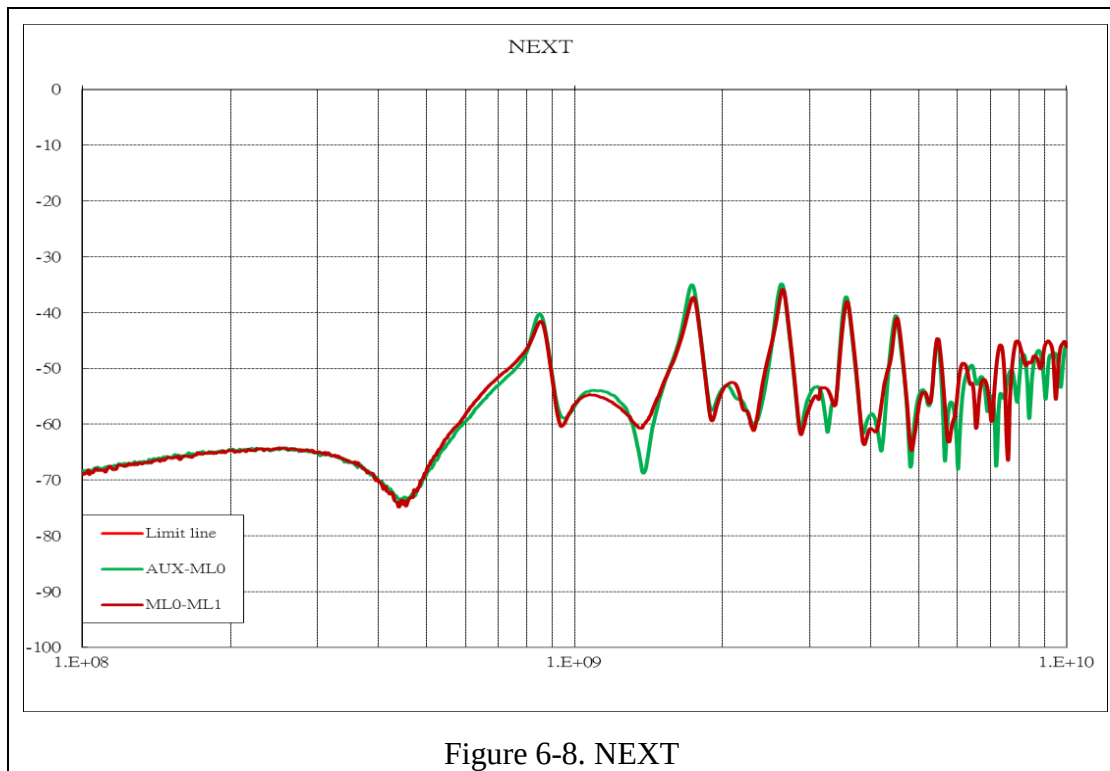


Figure 6-6. L1 Pair

6-1-3. Far-End Crosstalk



6-1-4. Near-End Crosstalk



6-1-5. Insertion Loss

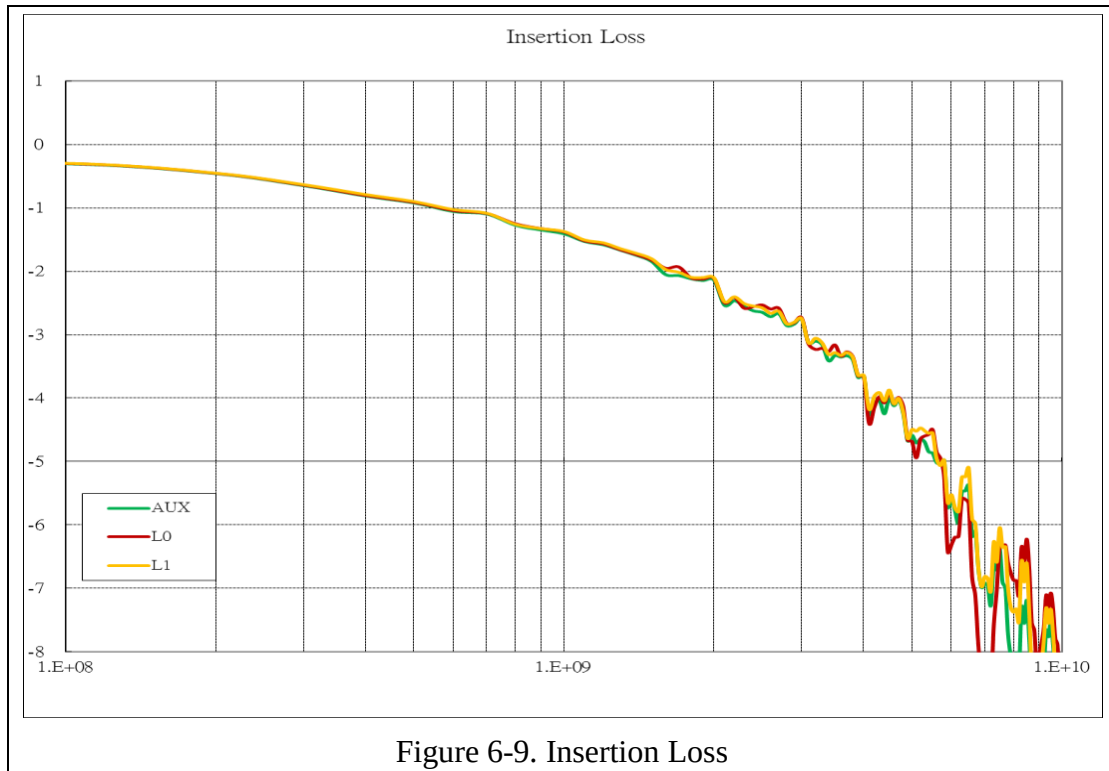


Figure 6-9. Insertion Loss

6-1-6. Return Loss



Figure 6-10. Return Loss

6-1-7. Traces Impedance

Test Item		Impedance (Ω)			
DUT Test Pin		eDP 1.2 30Pin Test Fixture			
Pair	Pin	Max	Min	Δ	Remark
AUX	N-Pair	49.18	47.69	1.49	Refer to Fig. 6-11
	P-Pair	49.42	48.38	1.04	Refer to Fig. 6-12
L0	P-Pair	49.20	47.67	1.53	Refer to Fig. 6-13
	N-Pair	49.25	47.69	1.52	Refer to Fig. 6-14
L1	P-Pair	49.20	47.74	1.46	Refer to Fig. 6-15
	N-Pair	49.25	47.80	1.45	Refer to Fig. 6-16

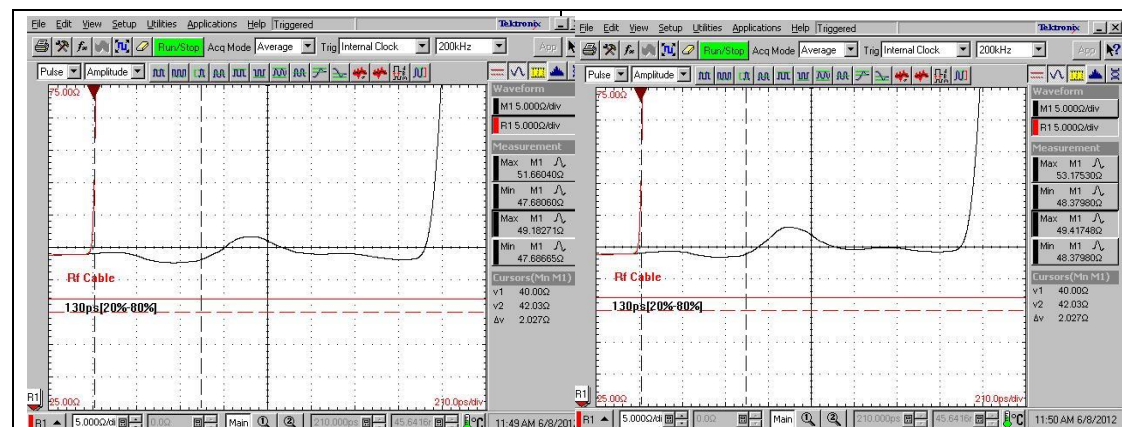


Figure 6-11. AUX N-Pair

Figure 6-12. AUX P-Pair

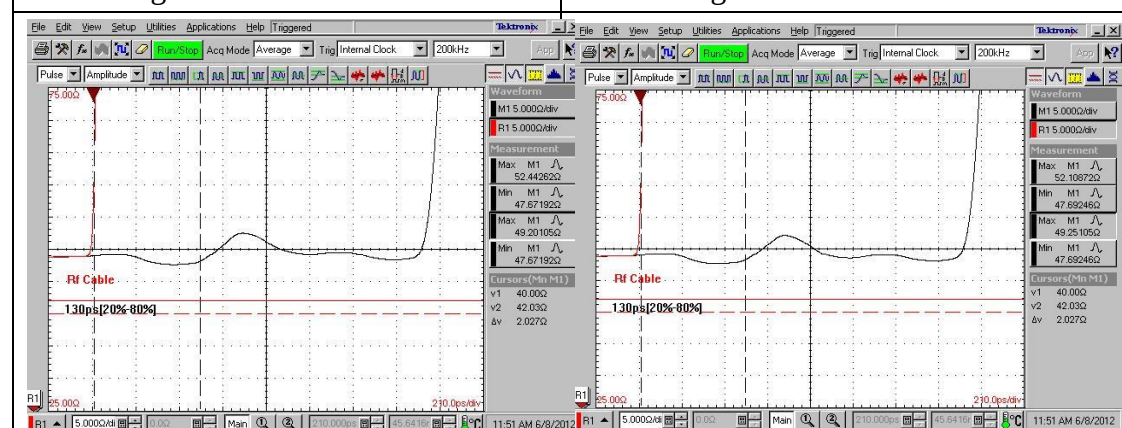


Figure 6-13. L0 P-Pair

Figure. 6-14. L0 N-Pair

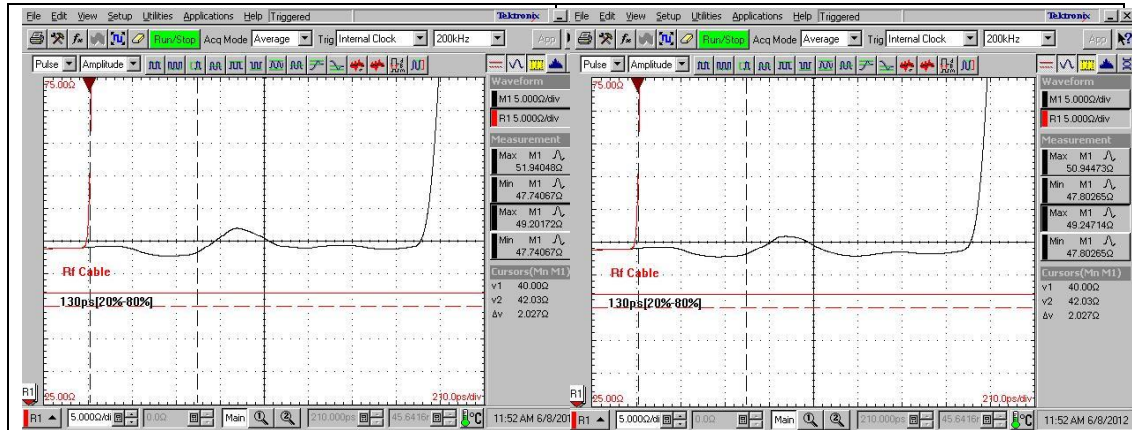


Figure. 6-15. L1 P-Pair

Figure. 6-16. L1 N-Pair

6-1-8. Differential Impedance of Mated Connectors

Test Item	Impedance (Ω)			
DUT	eDP 1.2 30Pin Test Fixture			
Test Pin				
Pair	Max	Min	Δ	Remark
AUX	96.58	93.72	2.86	Refer to Fig. 6-17
L0	96.58	93.42	3.16	Refer to Fig. 6-18
L1	96.59	93.22	3.37	Refer to Fig. 6-19

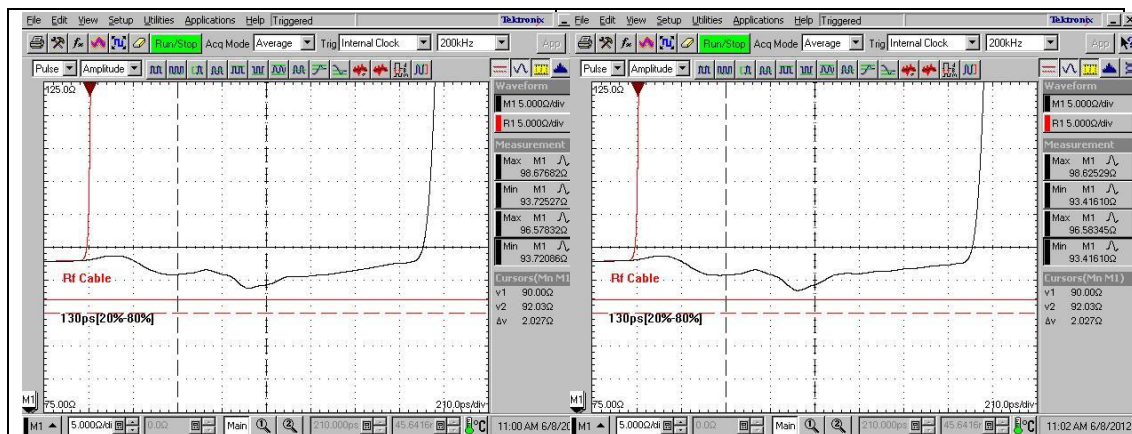


Figure 6-17. AUX Pair

Figure 6-18. L0 Pair

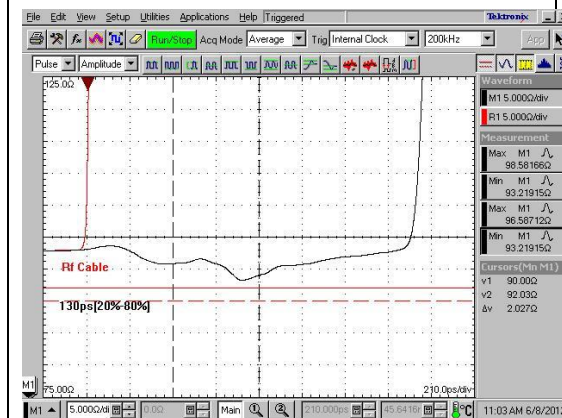


Figure 6-19. L1 Pair

6-2. eDP 1.2 40Pin Test Fixture

6-2-1. Eye Diagram

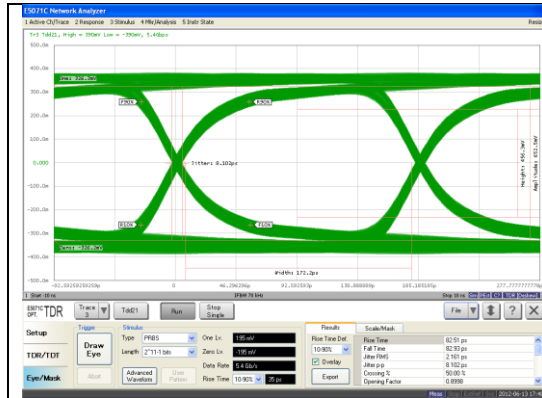


Figure 6-20. AUX Pair

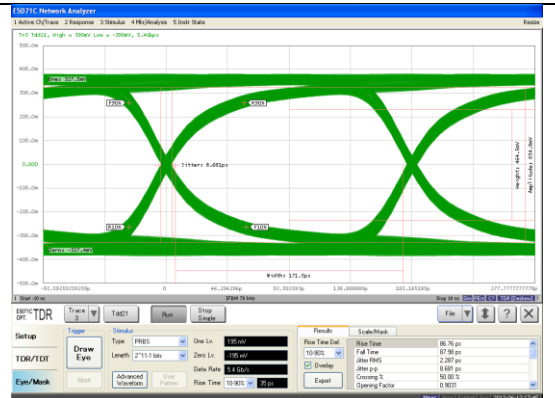


Figure 6-21. L0 Pair

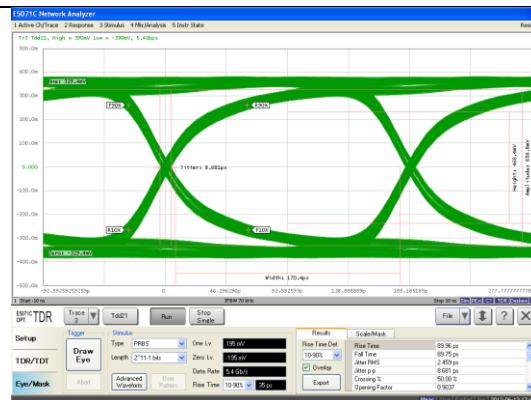


Figure 6-22. L1 Pair

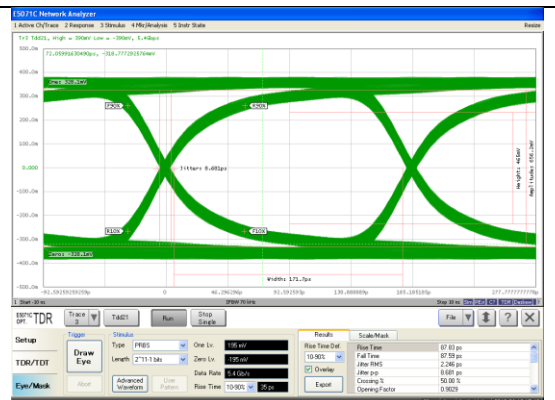


Figure 6-23. L2 Pair

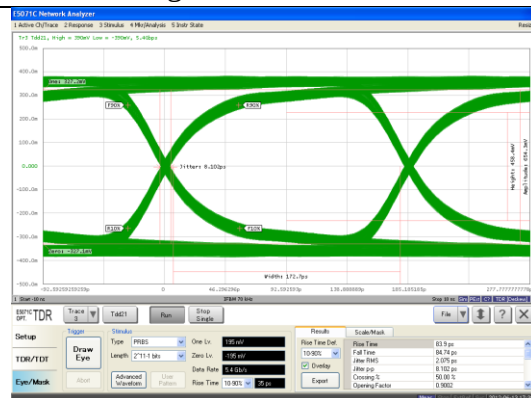


Figure 6-24. L3 Pair

6-2-2. Differential Intra-Pair Skew

Test Pair \ DUT	eDP 1.2 40Pin Test Fixture	
	Result (ps)	Remark
AUX	0.33	Refer to Fig. 6-25
L0	1.29	Refer to Fig. 6-26
L1	2.05	Refer to Fig. 6-27
L2	1.58	Refer to Fig. 6-28
L3	1.77	Refer to Fig. 6-29

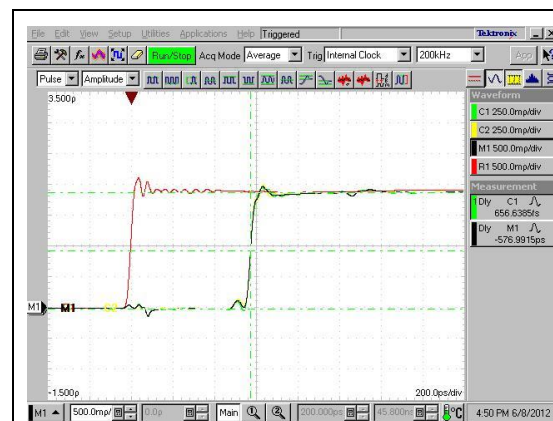


Figure 6-25. AUX Pair

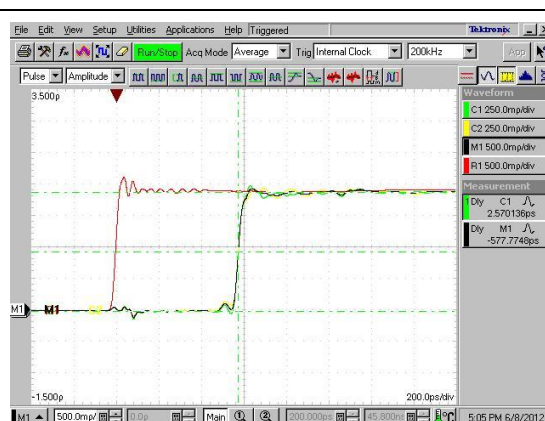


Figure 6-26. L0 Pair

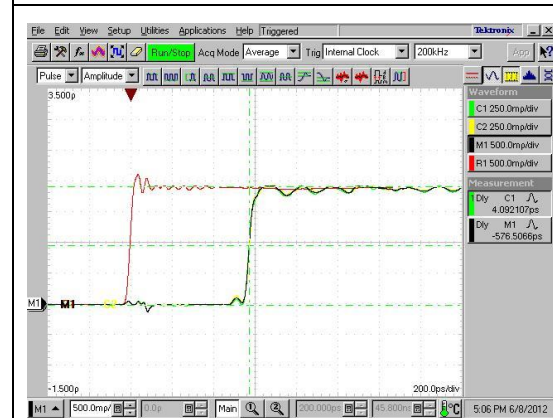
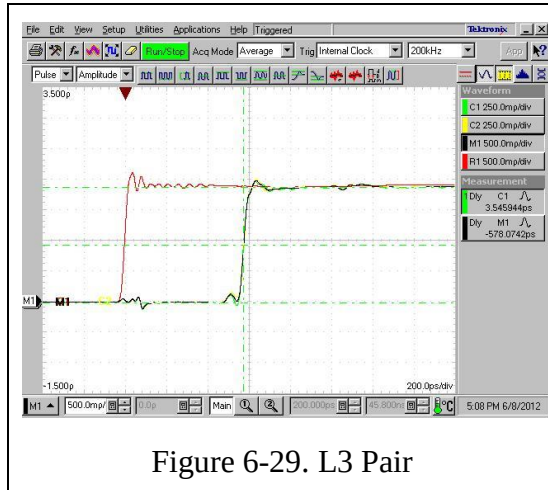


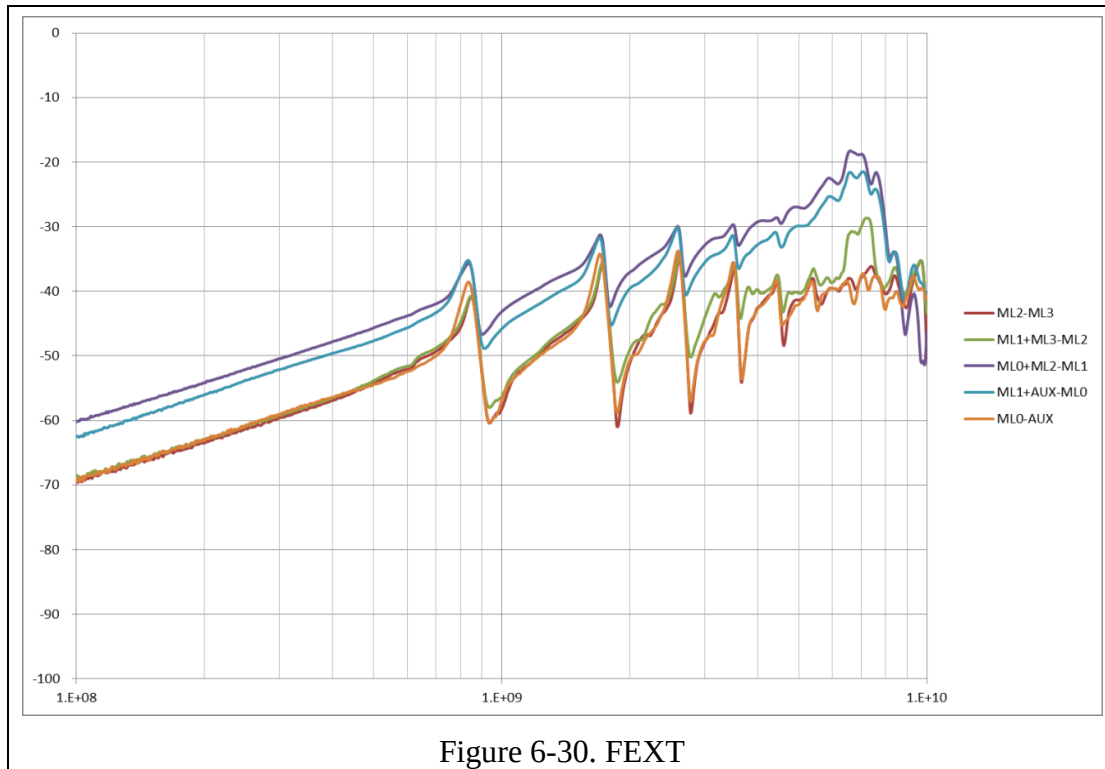
Figure 6-27. L1 Pair



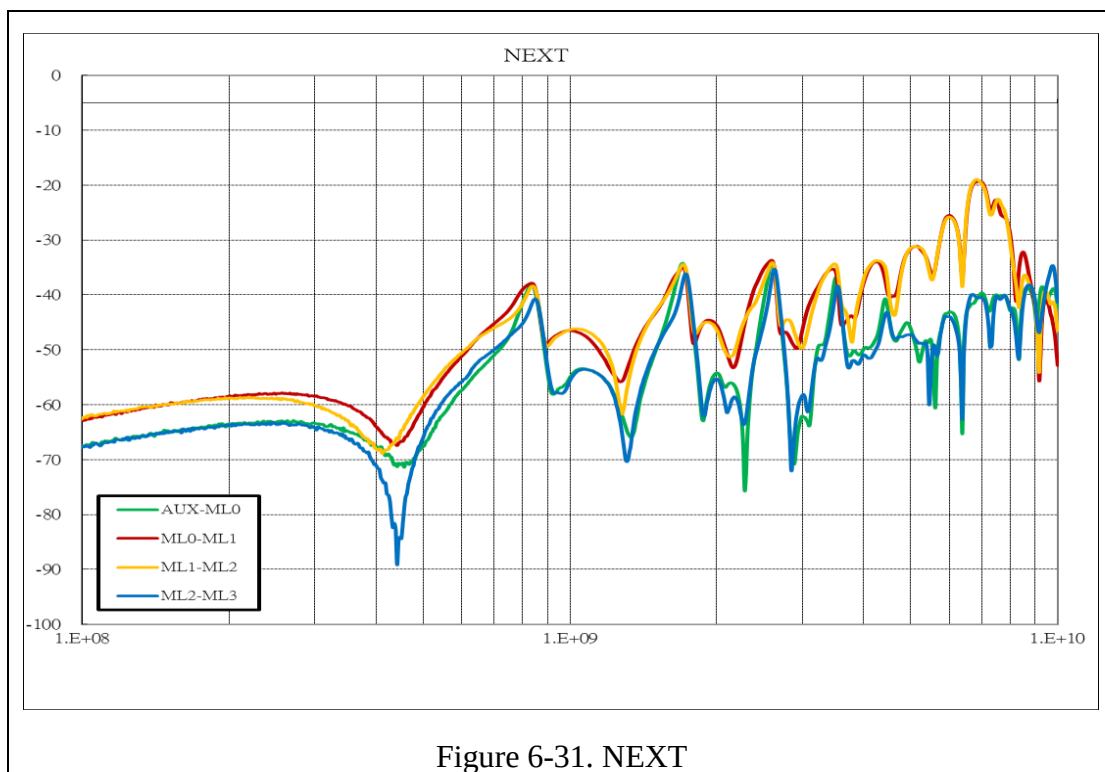
Figure 6-28. L2 Pair



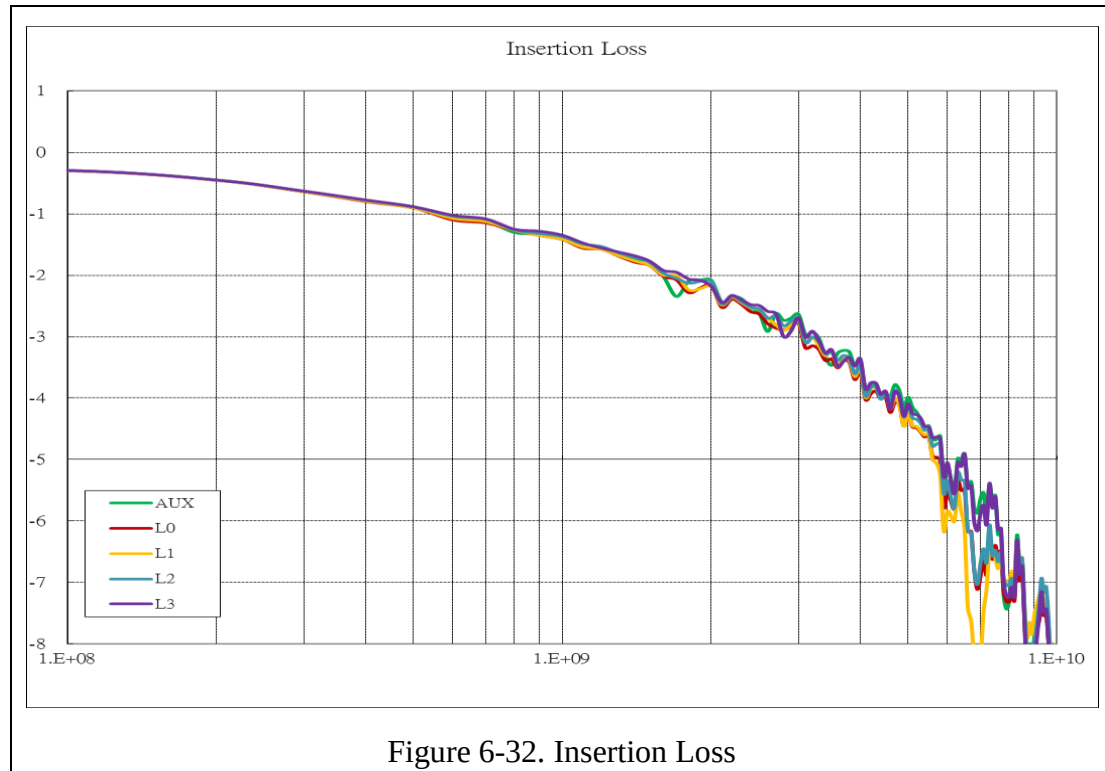
6-2-3. Far-End Crosstalk



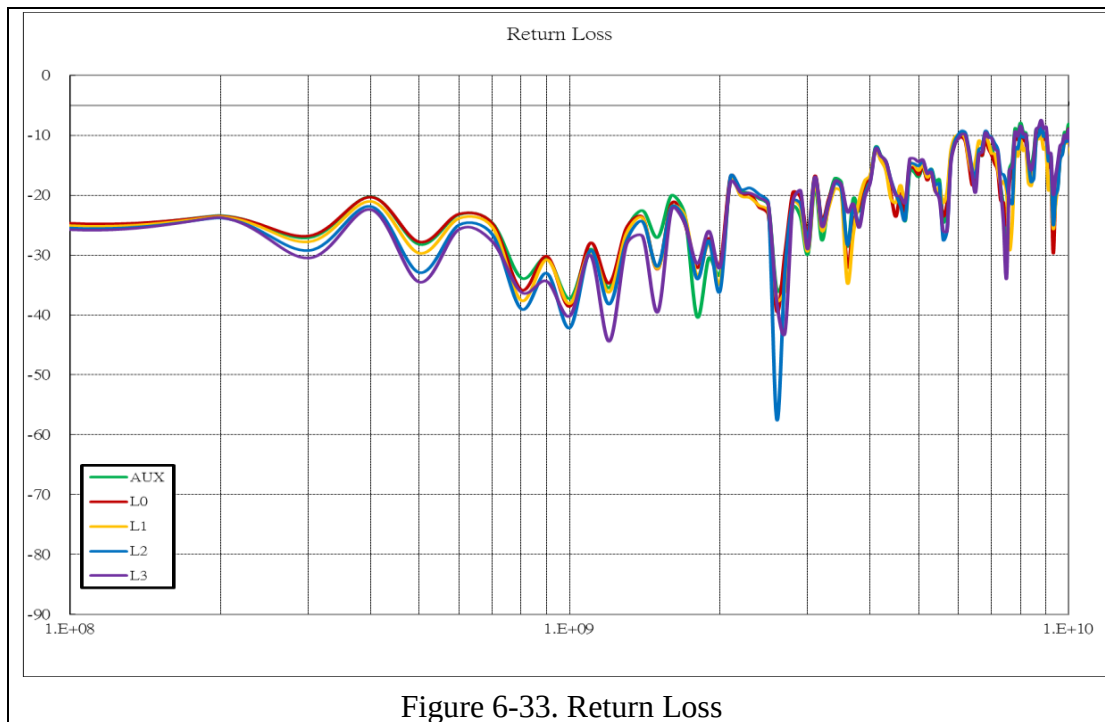
6-2-4. Near End Crosstalk



6-2-5. Insertion Loss



6-2-6. Return Loss



6-2-7. Traces Impedance

Test Item		Impedance (Ω)			
Test Pin	DUT	eDP 1.2 40Pin Test Fixture			
		Max	Min	Δ	Remark
AUX	N-Pair	49.16	48.22	0.94	Refer to Fig. 6-34
	P-Pair	49.22	48.31	0.91	Refer to Fig. 6-35
L0	P-Pair	49.19	48.16	1.03	Refer to Fig. 6-36
	N-Pair	49.22	48.34	0.88	Refer to Fig. 6-37
L1	P-Pair	49.25	48.42	0.83	Refer to Fig. 6-38
	N-Pair	49.34	48.50	0.84	Refer to Fig. 6-39
L2	P-Pair	49.35	48.57	0.78	Refer to Fig. 6-40
	N-Pair	49.34	48.62	0.72	Refer to Fig. 6-41
L3	P-Pair	49.33	48.66	0.67	Refer to Fig. 6-42
	N-Pair	49.33	48.53	0.80	Refer to Fig. 6-43

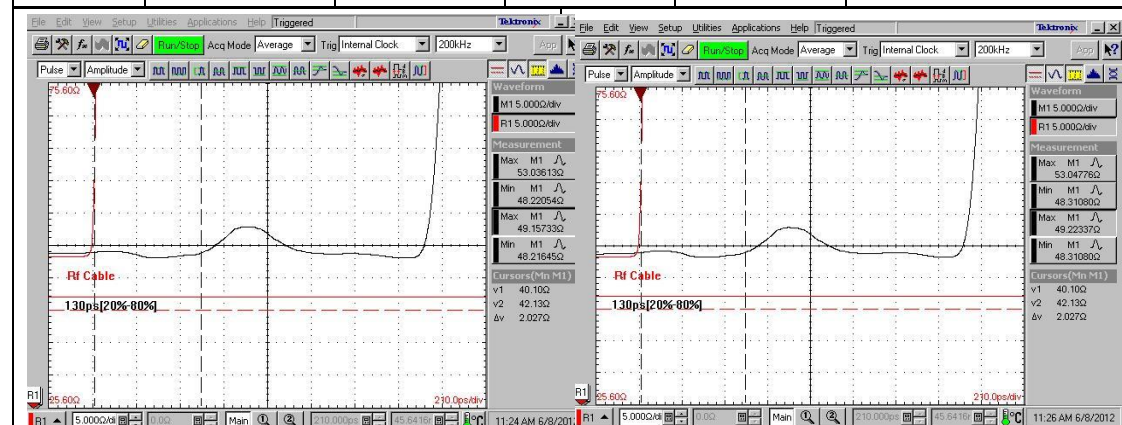


Figure 6-34. AUX N-Pair

Figure 6-35. AUX P-Pair

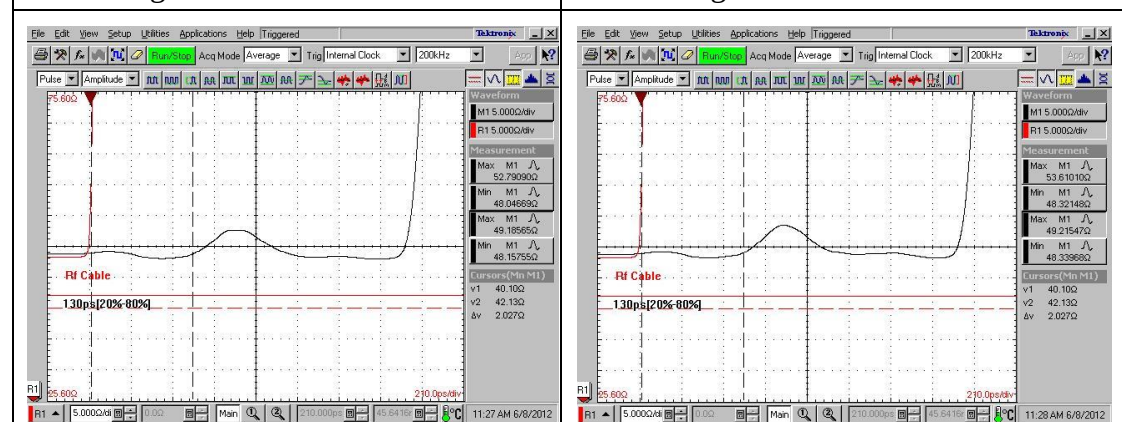


Figure 6-36. L0 P-Pair

Figure 6-37. L0 N-Pair

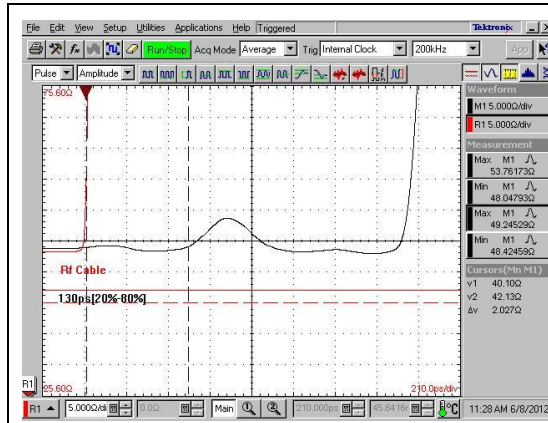


Figure 6-38. L1 P-Pair

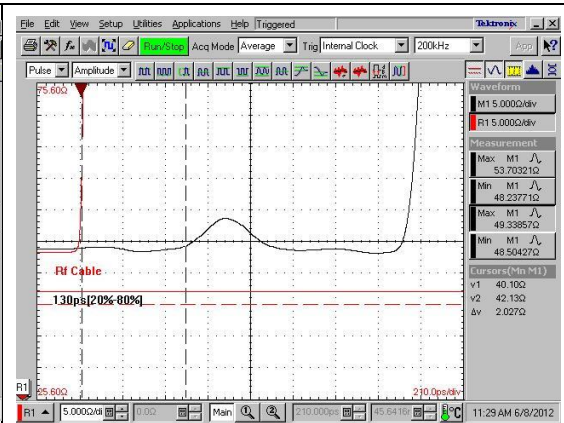


Figure 6-39. L1 N-Pair

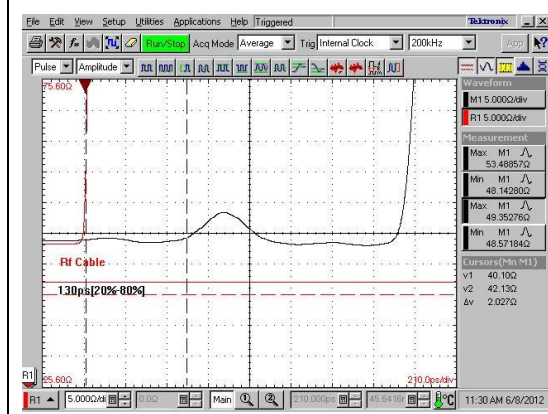


Figure 6-40. L2 P-Pair

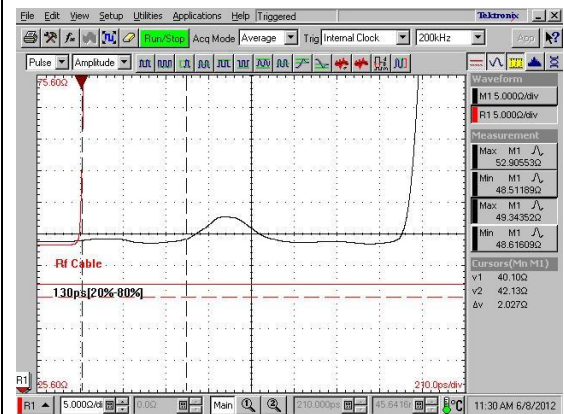


Figure 6-41. L2 N-Pair

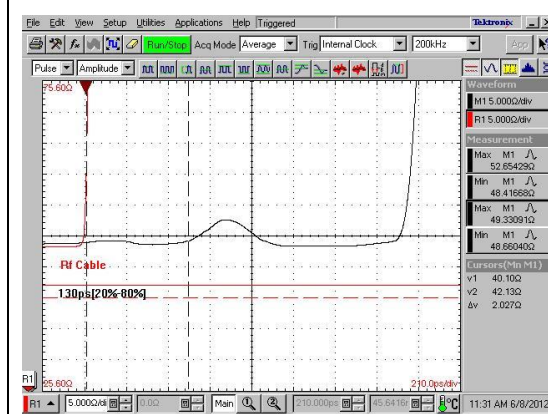


Figure 6-42. L3 P-Pair

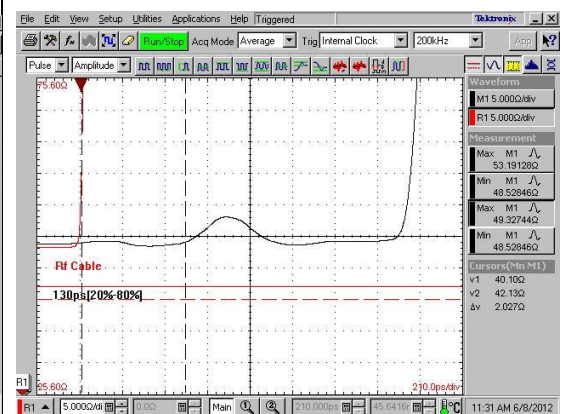


Figure 6-43. L3 N-Pair

6-2-8. Differential Impedance of Mated Connectors

Test Item	Impedance (Ω)			
DUT	eDP 1.2 40Pin Test Fixture			
Test Pin				
Pair	Max	Min	Δ	Remark
AUX	98.14	94.64	3.50	Refer to Fig. 6-44
L0	98.33	94.52	3.81	Refer to Fig. 6-45
L1	98.66	95.34	3.32	Refer to Fig. 6-46
L2	98.83	95.36	3.47	Refer to Fig. 6-47
L3	98.66	95.17	3.49	Refer to Fig. 6-48

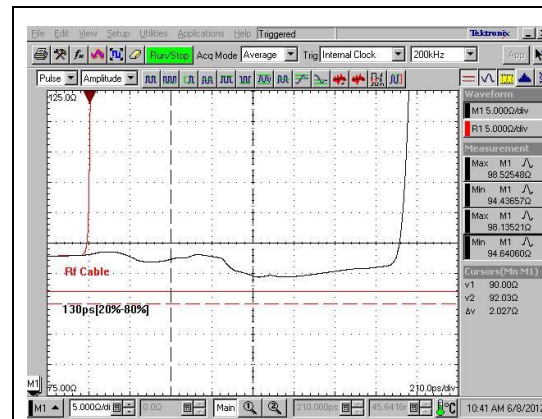


Figure 6-44. AUX Pair

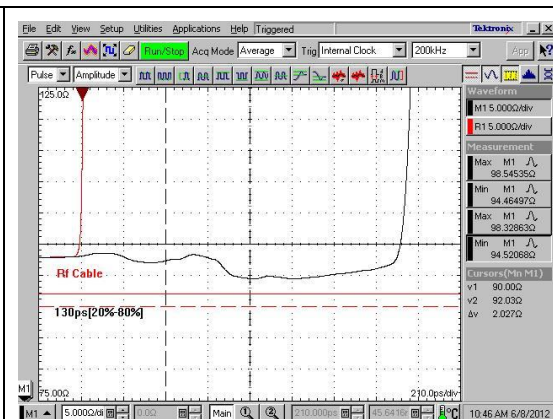


Figure 6-45. L0 Pair

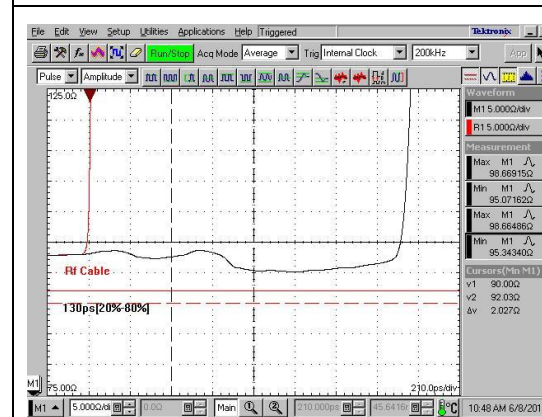


Figure 6-46. L1 Pair

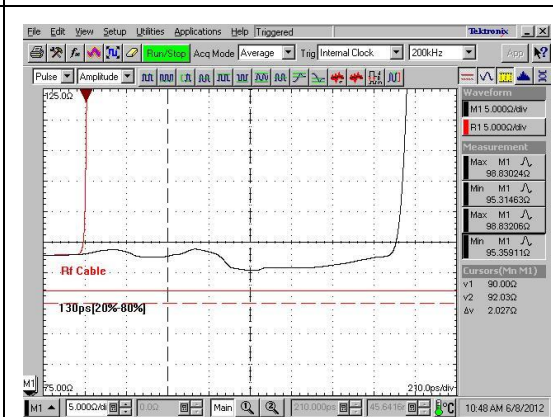
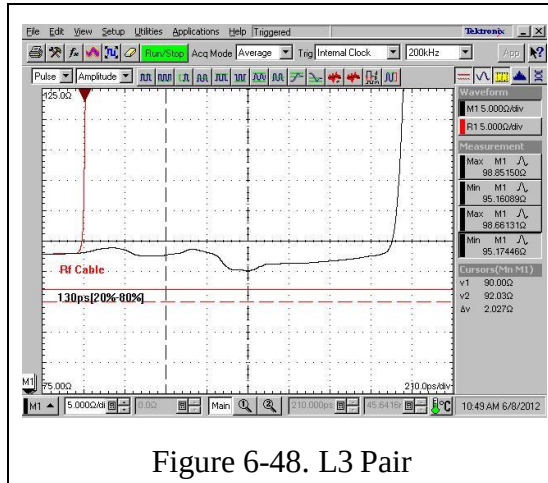


Figure 6-47. L2 Pair



6-3. DP 1.2 1X,2X and SOL Calibration Board

6-3-1. Eye Diagram

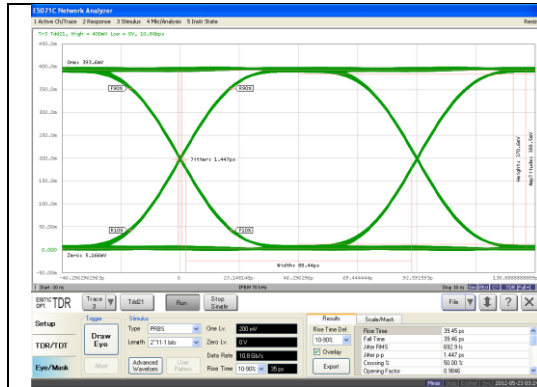


Figure 6-49. 1X Pair

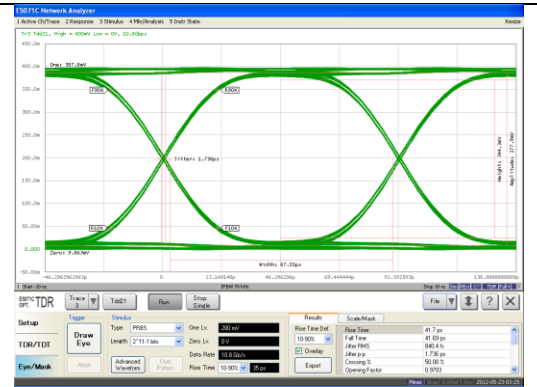
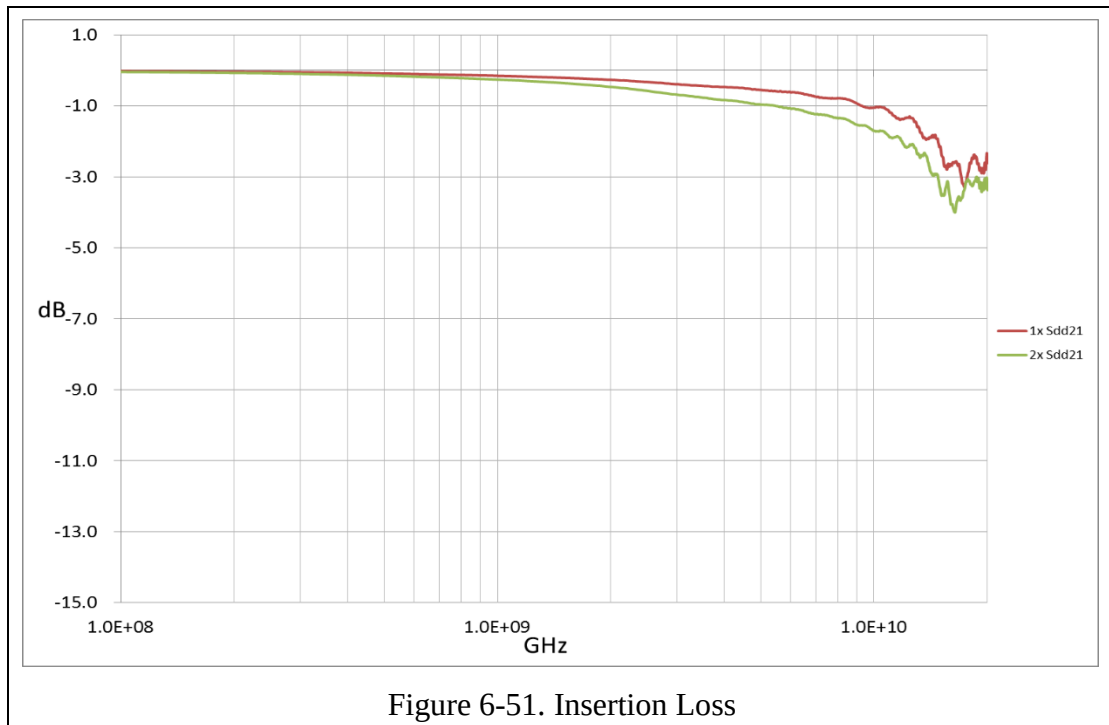
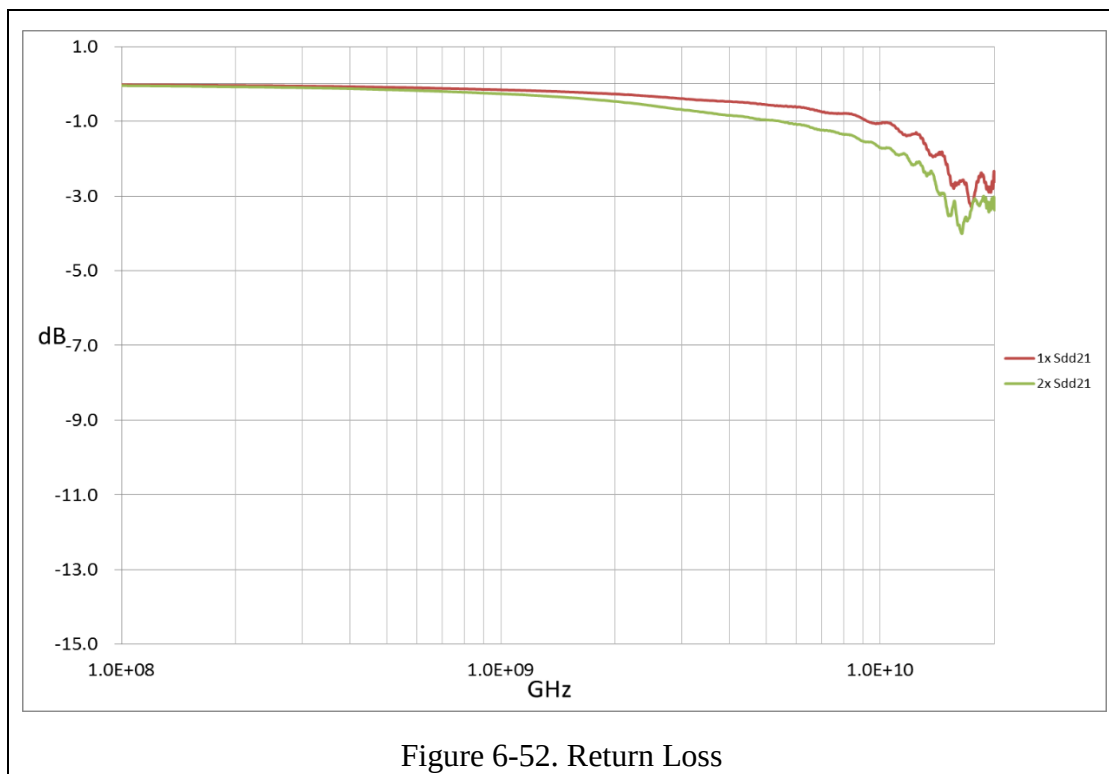


Figure 6-50. 2X Pair

6-3-2. Insertion Loss

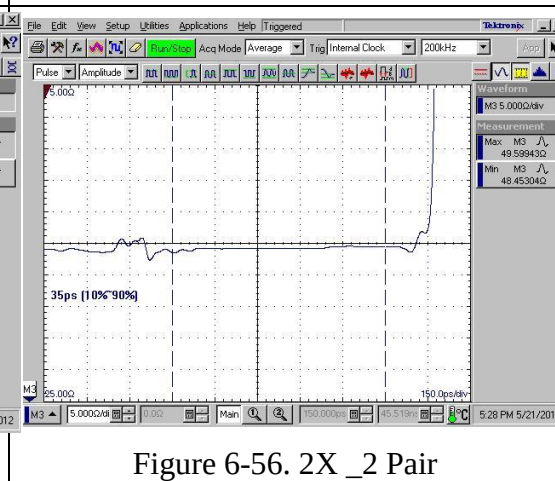
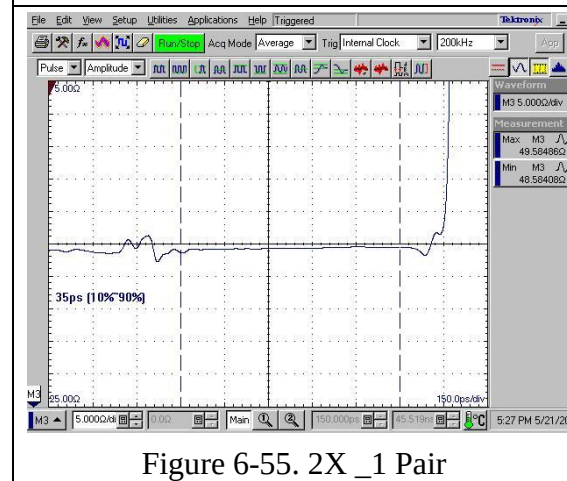
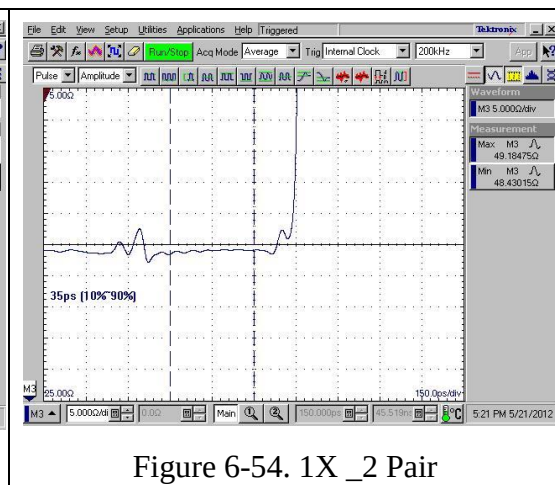
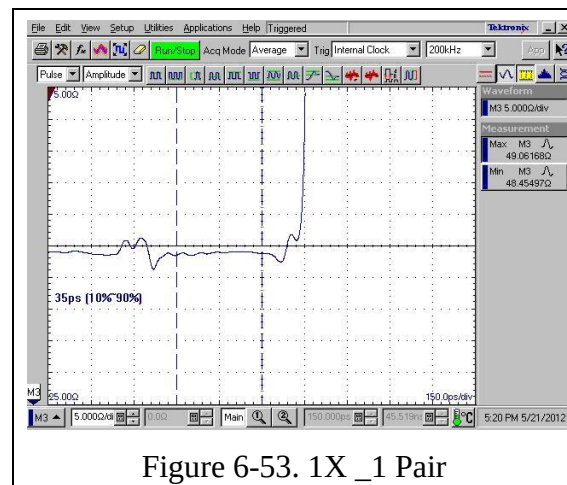


6-3-3. Return Loss



6-3-4. Traces Impedance

Test Item		Impedance (Ω)			
Test Pin	DUT	DP 1.2 1X,2X and SOL Calibration Board			
		Max	Min	Δ	Remark
1X	1	49.06	48.45	0.61	Refer to Fig. 6-53
	2	49.18	48.43	0.73	Refer to Fig. 6-54
2X	1	49.58	48.58	1.00	Refer to Fig. 6-55
	2	49.60	48.45	1.15	Refer to Fig. 6-56
Short	1	48.86	48.25	0.61	Refer to Fig. 6-57
	2	48.79	47.96	0.83	Refer to Fig. 6-58
Open	1	49.54	48.71	0.79	Refer to Fig. 6-59
	2	49.50	48.75	0.75	Refer to Fig. 6-60
Load	1	49.13	48.83	0.30	Refer to Fig. 6-61
	2	49.19	48.52	0.67	Refer to Fig. 6-62



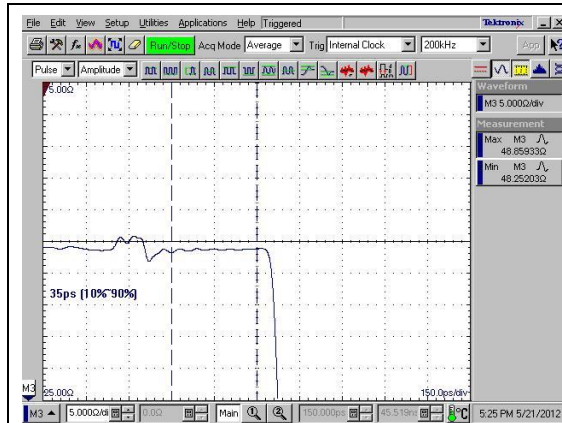


Figure 6-57. Short_1 Pair

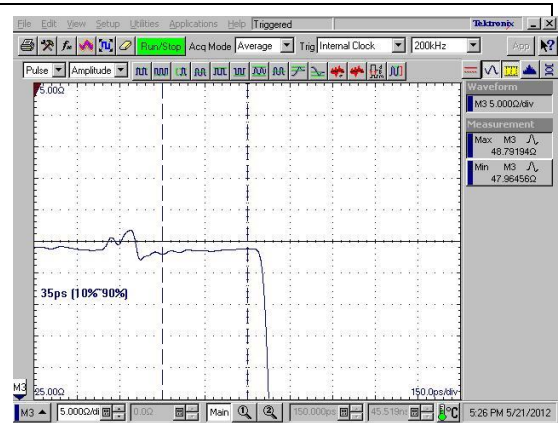


Figure 6-58. Short_2 Pair

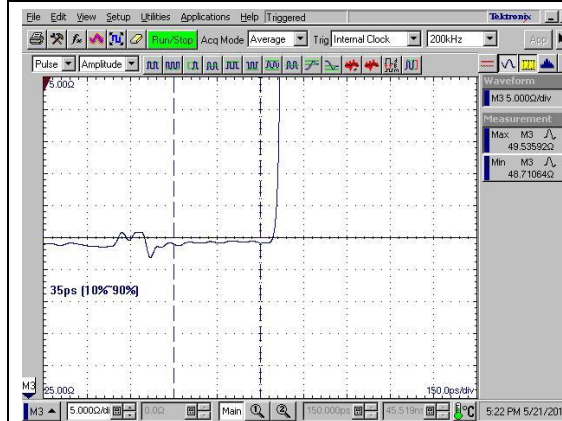


Figure 6-59. Open_1 Pair

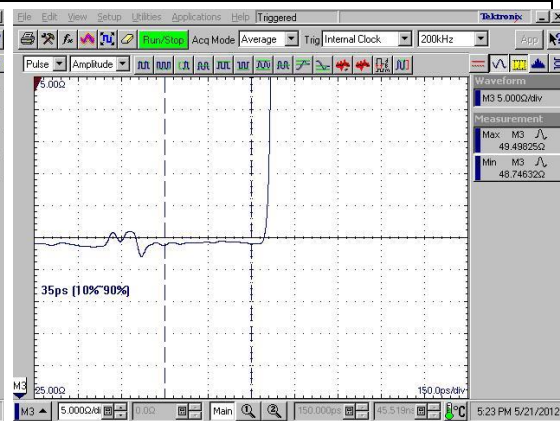


Figure 6-60. Open_2 Pair

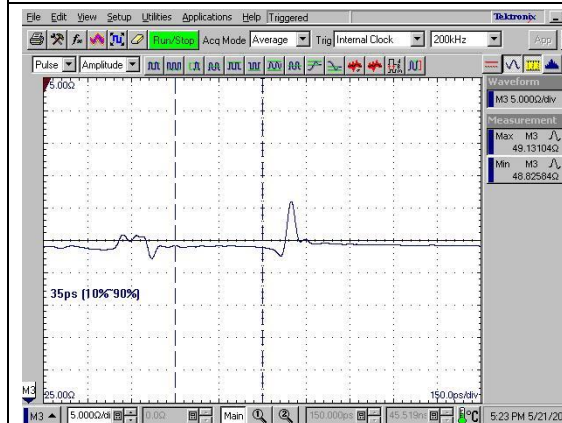


Figure 6-61. Load_1 Pair

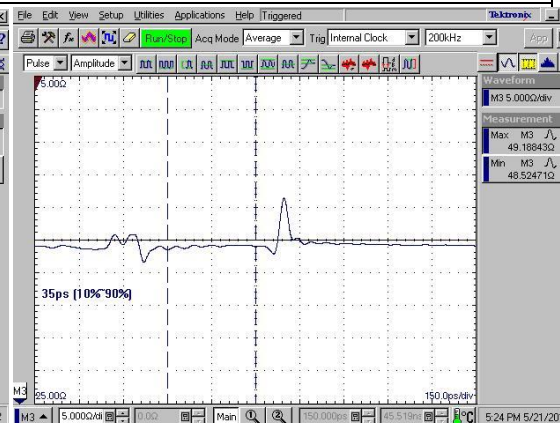


Figure 6-62. Load_2 Pair

6-3-5. Differential Impedance

Test Item	Impedance (Ω)			
DUT	DP 1.2 1X,2X and SOL Calibration Board			
Test Pin				
Pair	Max	Min	Δ	Remark
1X	98.46	97.52	0.94	Refer to Fig. 6-63
2X	99.42	98.26	1.16	Refer to Fig. 6-64

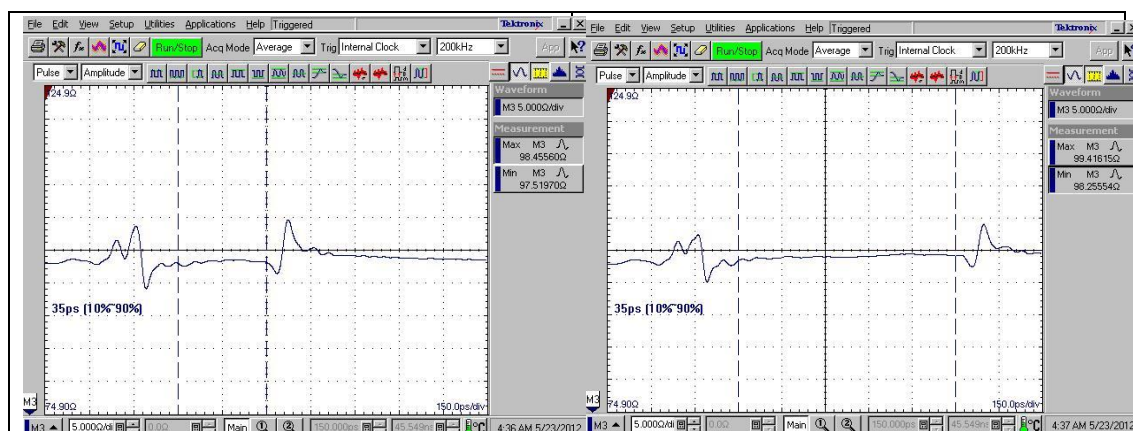


Figure 6-63. 1X Pair

Figure 6-64. 2X Pair

7. Reference materials

7-1. Keysight

(MOI) for DisplayPort1.2b Cable-Connector Assembly Compliance Test

https://www.keysight.com/upload/cmc_upload/All/ENA-TDR_DisplayPort_MOI_rev3.01.pdf

eDP 1.2 Test Fixture

User Manual



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Product Name	Version	Date	Comments
eDP 1.2 Test Fixture Series	01	Apr.23,2019	Initial release

1. 簡介

本文介紹 eDP test fixture 的機械規格與電氣規格。

2. 目的

本規範提供了 eDP test fixture 的特性規格與測試結果。

3. 操作方式&清潔

3-1. 處理

在每次使用測試治具之前，確保所有連接器都乾淨。

3-2. 目測檢查

在連接之前，一定要仔細檢查所有的測試治具。檢查所有測試治具是否有金屬顆粒，划痕，變形螺紋，凹痕或彎曲，斷裂或中心導體未對齊。不要使用損壞的測試治具。

清潔方法

如需清潔，請使用低壓（小於 60 PSI）的壓縮空氣或氮氣與有效的油氣過濾器和冷凝器。如有需要清潔內部，使用沾有異丙醇的清潔布清潔測試治具。清潔後請確認連接器是否為乾燥狀態。請勿使用研磨劑清潔連接器。使用前確保連接器內無殘留物。

3-3. 注意事項

在進行任何連接之前，請查看“注意事項”部分。連接時請遵循以下準則：

- 仔細對齊測試治具
- 輕微進行初步連接
- 確認 SMA 接頭對鎖狀態
- 不要對測試治具施加彎曲力
- 請勿使用磅數過高之扭力扳手(5 in-lbs 上)
- 測試治具端請勿旋轉或扭動
- 使用適當尺寸的扭矩扳手(取決於 SMA 的規格), 並且不要擰過扭矩扳手的“斷開”點 (通常設置為 5 in-lbs)。

3-4. 校正

eDP 測試治具是完全無源組件。因此，校準在驅動的測試儀器中必須補償損失。創建 S2P 文件。這些文件將很快用於將測試夾具內的電氣長度和損耗去除到 eDP 連接器接口焊盤。

TFD-1R38A



Figure 3-1. eDP 1.2 Receptacle 30pin
Test Fixture

TFD-1R38B



Figure 3-2. eDP 1.2 Receptacle 30pin
Test Fixture

TFD-11R28



Figure 3-3. eDP 1.2 Receptacle 40pin
Test Fixture

TLA16EM002



Figure 3-4. eDP 1.2 Plug 30pin Adapter

TLA16EM003



Figure 3-5. eDP 1.2 Plug 40pin Adapter

TFD-4C98



Figure 3-6. DP 1.2 1X,2X and SOL
Calibration Board

4. 測試設備

Item	Product Model	Name	Manufacturer
01	E5071C-TDR	300KHz~20GHz ENA Network Analyzer	Keysight
02	N4433A	200KHz~20GHz Electronic Calibration Module	Keysight
03	TDS8300+80E04	TDR with TDR and TDT module	Tektronix

5. 測試條件

(Reference DisplayPort 1.2 specification)

Test Fixture	Part No.	S/N
eDP 1.2 Receptacle 30Pin Test Fixture	TFD-1R38B	001
eDP 1.2 Receptacle 40Pin Test Fixture	TFD-11R28	001
DP 1.2 1X,2X and SOL Calibration Board	TFD-4C98	001

Test Item:	Condition	Requirement
Eye Diagram		Eye Height :75% ISI Jitter: 5% Rise/Fall Time (10-90): 50ps
Differential Intra-pair Skew	No Filter	<5ps
Far-End Crosstalk	300KHz~10GHz	N/A
Near-End Crosstalk	300KHz~10GHz	N/A
Insertion Loss(-3dB Bandwidth)	300KHz~10GHz	5GHz@-3dB
Return Loss	300KHz~10GHz	N/A
Traces Impedance	130ps (20% - 80%)	50 $\Omega \pm 5\%$
Differential impedance of Mated Connectors	130ps (20% - 80%) 35ps (10% - 90%)	100 $\Omega \pm 10\%$ 100 $\Omega \pm 10\%$

6. 測試結果

6-1. eDP 1.2 30Pin Test Fixture

6-1-1. Eye Diagram

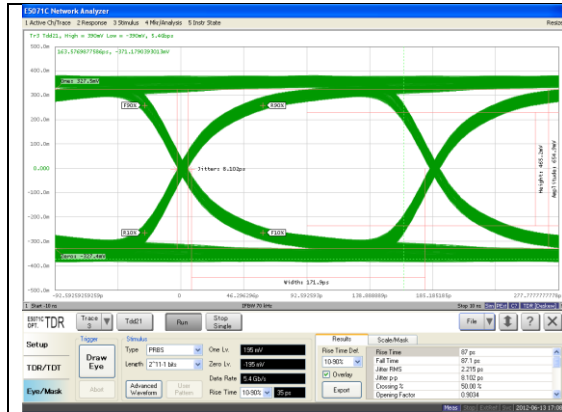


Figure 6-1. AUX Pair

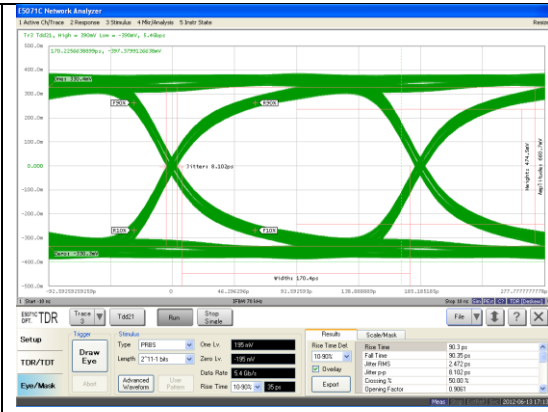


Figure 6-2. L0 Pair

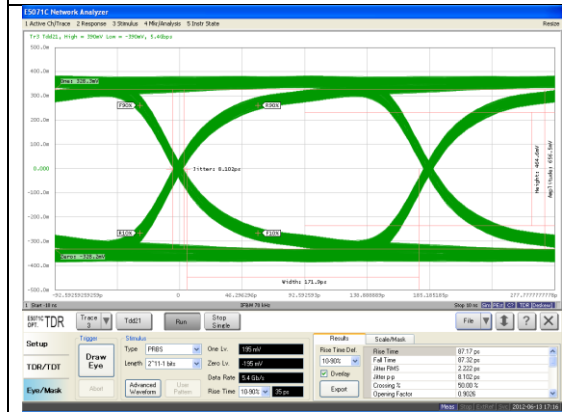


Figure 6-3. L1 Pair

6-1-2. Differential Intra-Pair Skew

Test Pair \ DUT	eDP 1.2 30Pin(Ω)	
	Result (ps)	Remark
AUX	0.87	Refer to Fig. 6-4
L0	1.64	Refer to Fig. 6-5
L1	0.80	Refer to Fig. 6-6

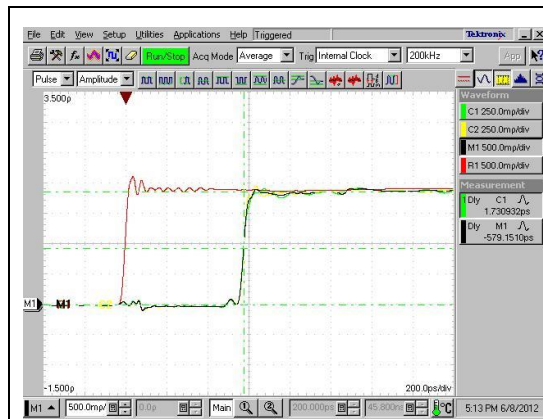


Figure 6-4. AUX Pair

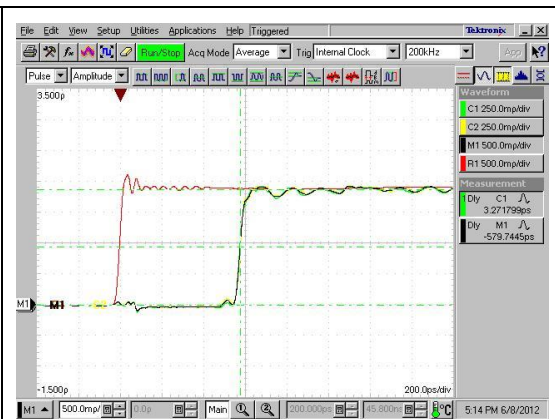


Figure 6-5. L0 Pair

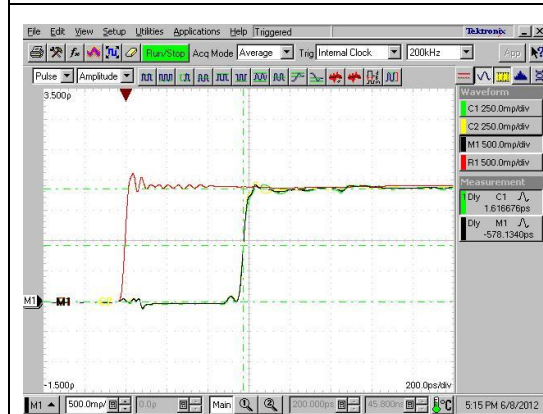
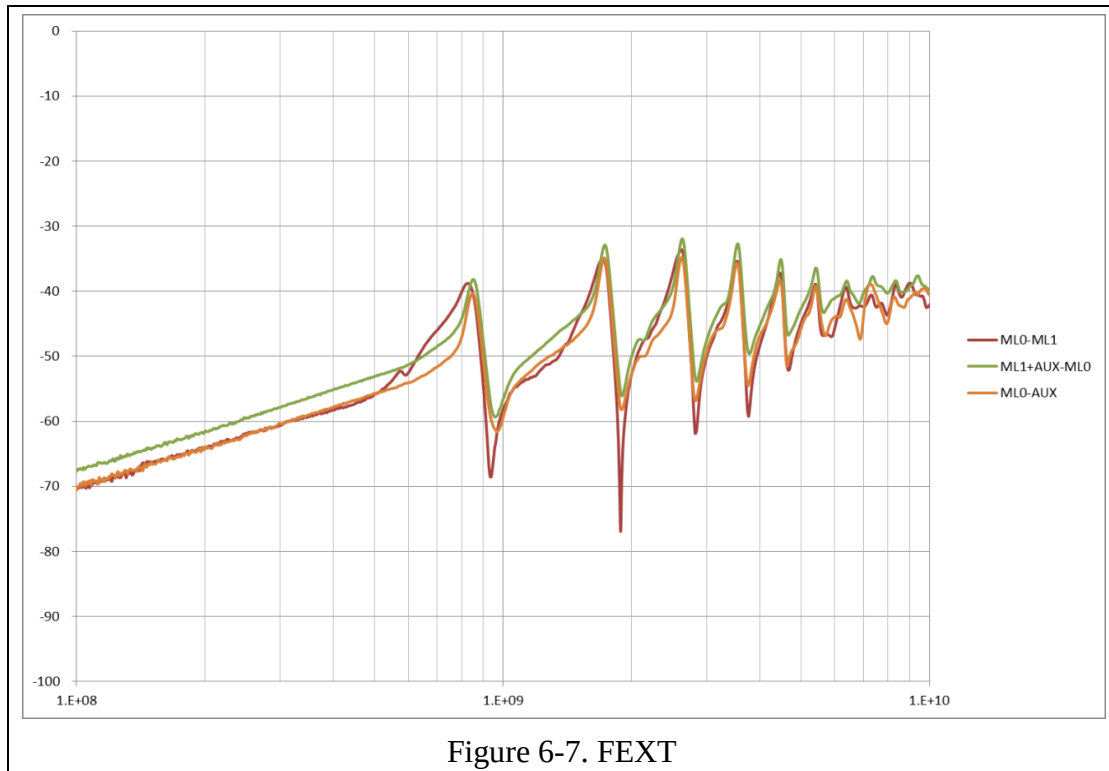
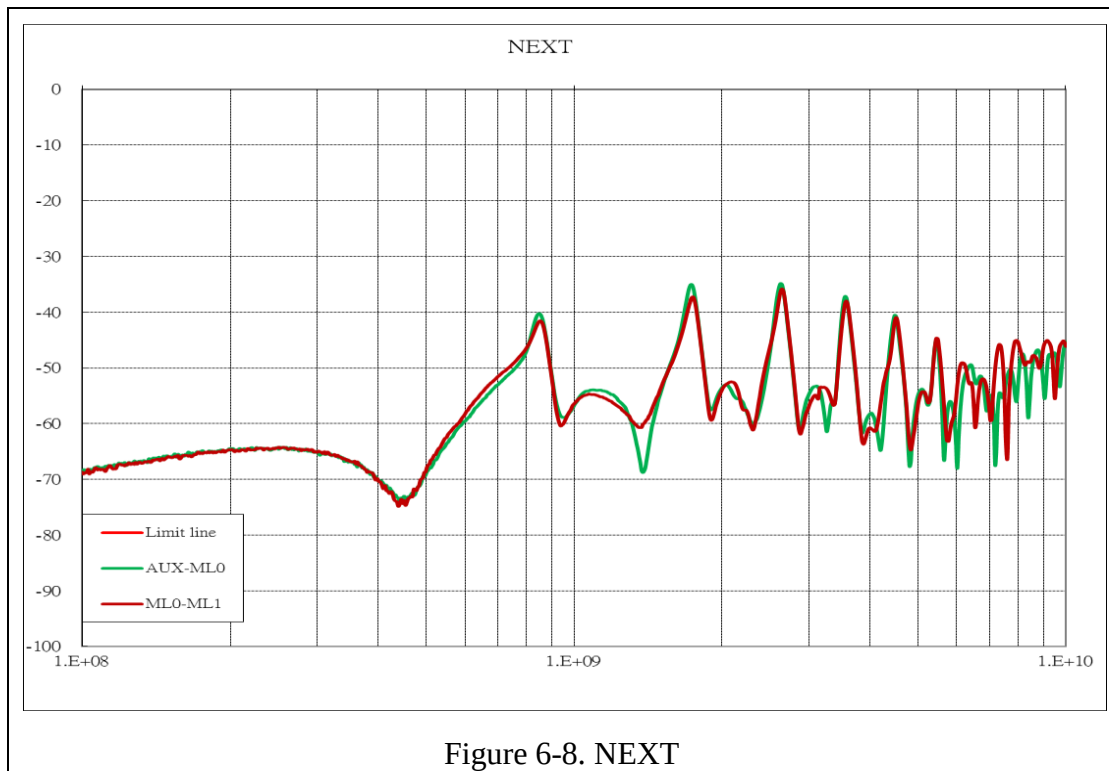


Figure 6-6. L1 Pair

6-1-3. Far-End Crosstalk



6-1-4. Near-End Crosstalk



6-1-5. Insertion Loss

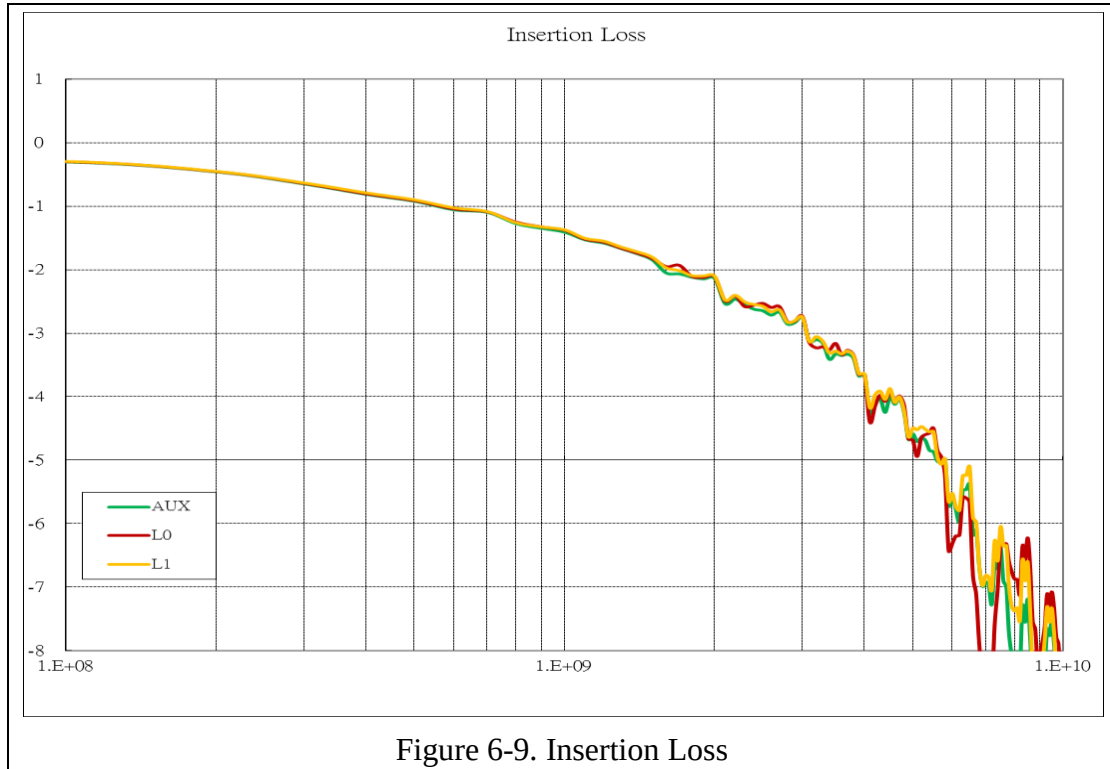


Figure 6-9. Insertion Loss

6-1-6. Return Loss

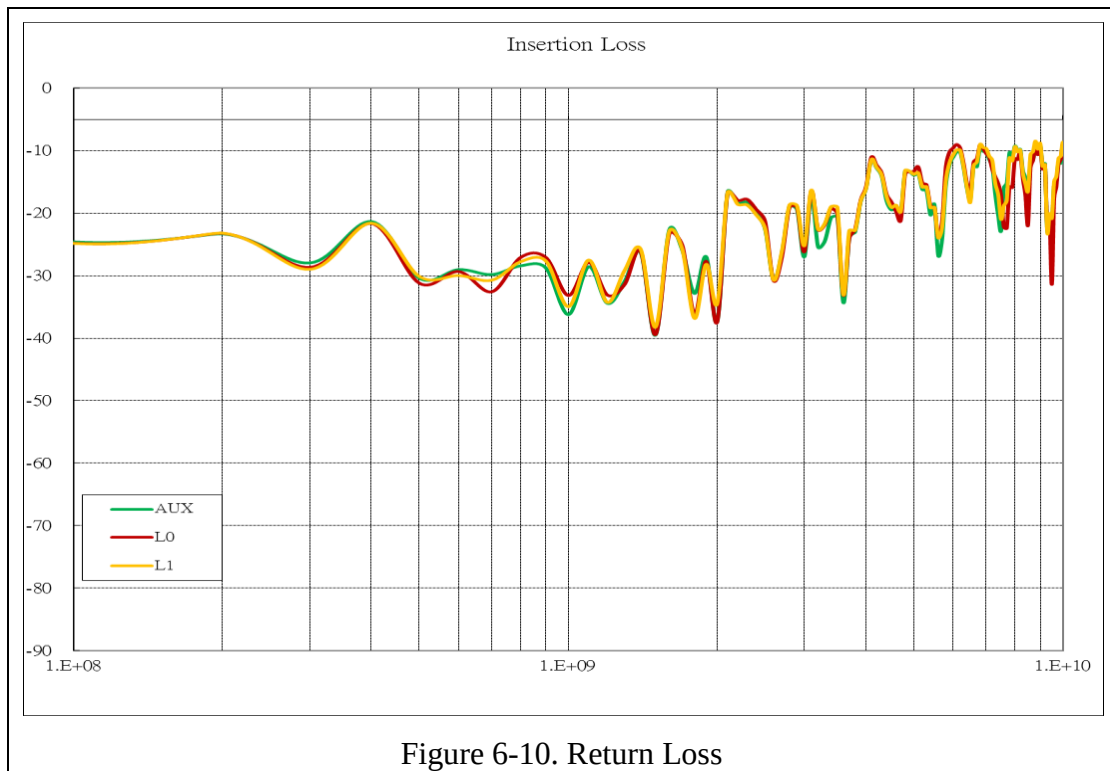


Figure 6-10. Return Loss

6-1-7. Traces Impedance

Test Item		Impedance (Ω)			
DUT Test Pin		eDP 1.2 30Pin Test Fixture			
Pair	Pin	Max	Min	Δ	Remark
AUX	N-Pair	49.18	47.69	1.49	Refer to Fig. 6-11
	P-Pair	49.42	48.38	1.04	Refer to Fig. 6-12
L0	P-Pair	49.20	47.67	1.53	Refer to Fig. 6-13
	N-Pair	49.25	47.69	1.52	Refer to Fig. 6-14
L1	P-Pair	49.20	47.74	1.46	Refer to Fig. 6-15
	N-Pair	49.25	47.80	1.45	Refer to Fig. 6-16

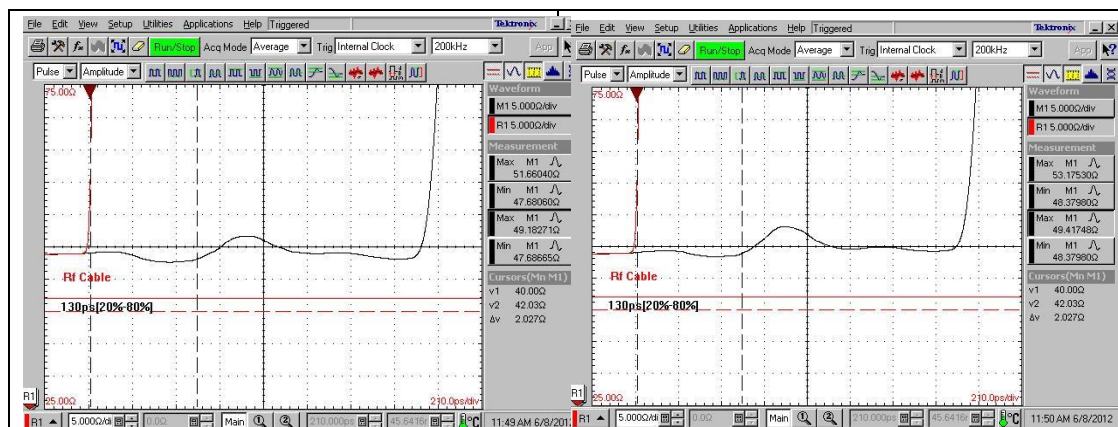


Figure 6-11. AUX N-Pair

Figure 6-12. AUX P-Pair

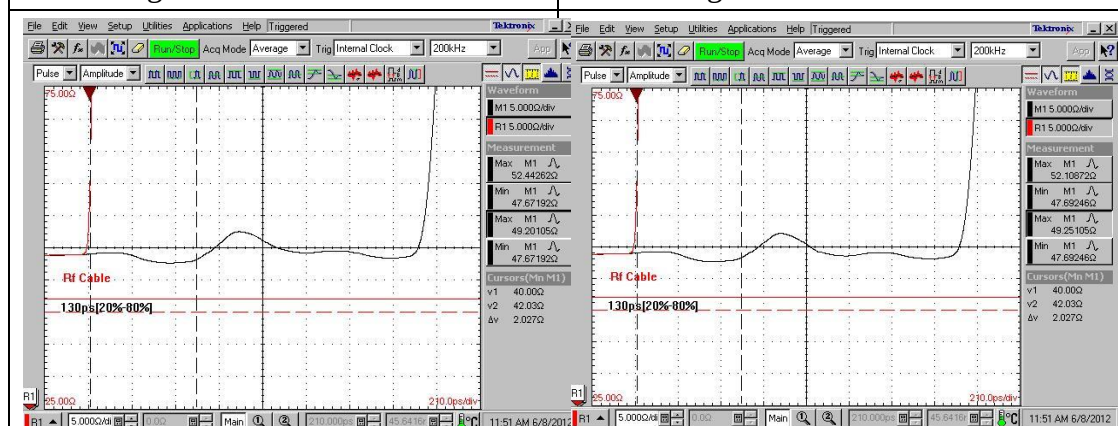


Figure 6-13. L0 P-Pair

Figure. 6-14. L0 N-Pair

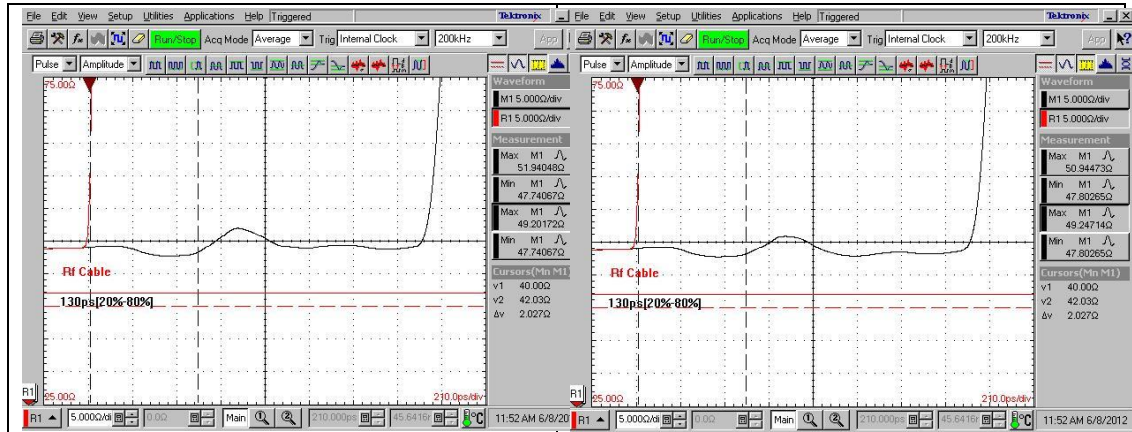


Figure. 6-15. L1 P-Pair

Figure. 6-16. L1 N-Pair

6-1-8. Differential Impedance of Mated Connectors

Test Item	Impedance (Ω)			
DUT	eDP 1.2 30Pin Test Fixture			
Test Pin				
Pair	Max	Min	Δ	Remark
AUX	96.58	93.72	2.86	Refer to Fig. 6-17
L0	96.58	93.42	3.16	Refer to Fig. 6-18
L1	96.59	93.22	3.37	Refer to Fig. 6-19

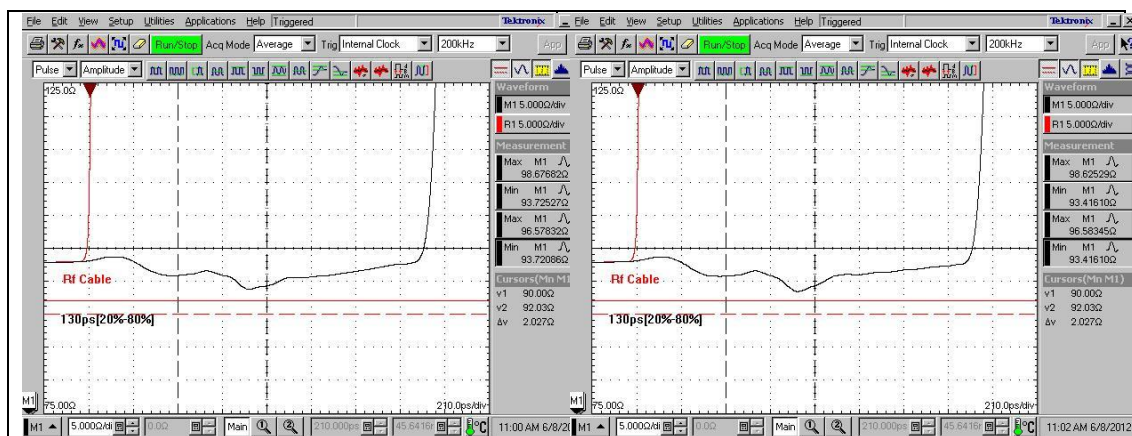


Figure 6-17. AUX Pair

Figure 6-18. L0 Pair

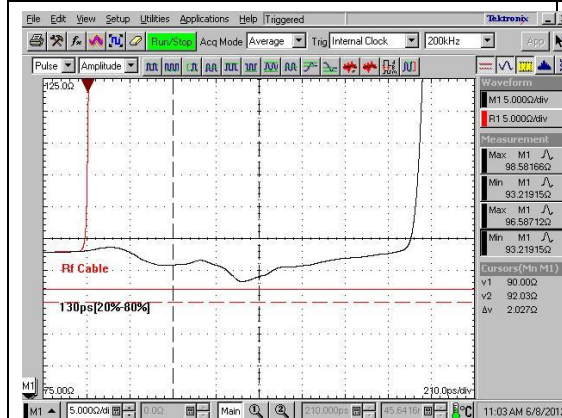


Figure 6-19. L1 Pair

6-2. eDP 1.2 40Pin Test Fixture

6-2-1. Eye Diagram

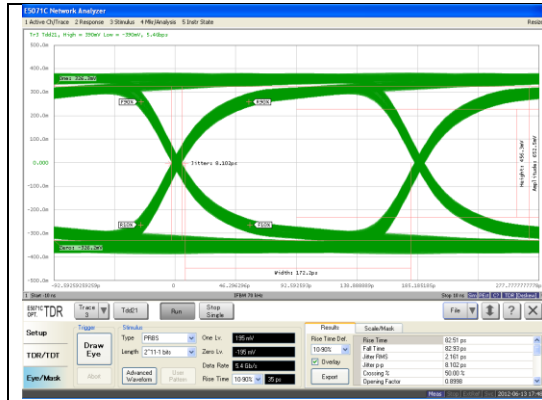


Figure 6-20. AUX Pair

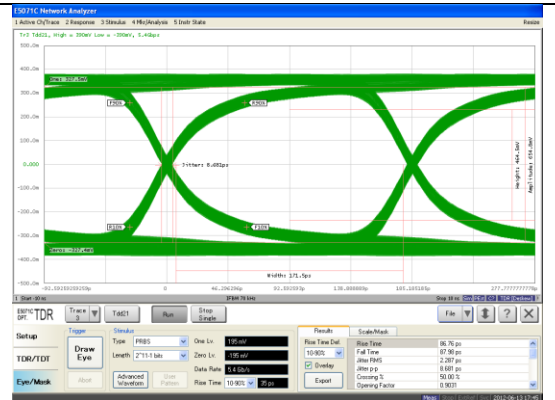


Figure 6-21. L0 Pair

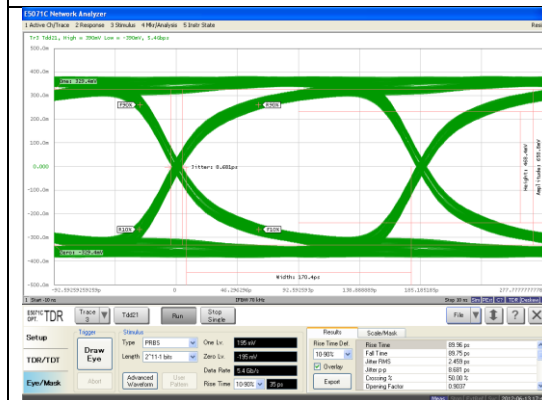


Figure 6-22. L1 Pair

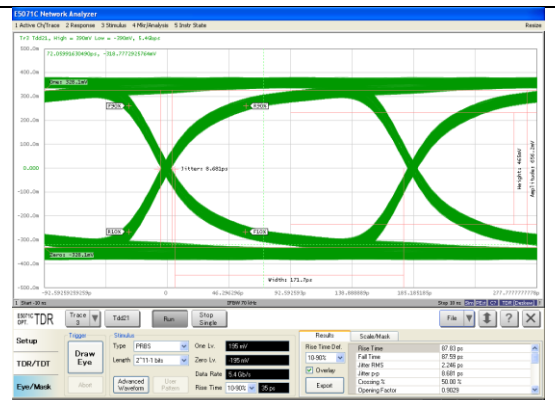


Figure 6-23. L2 Pair

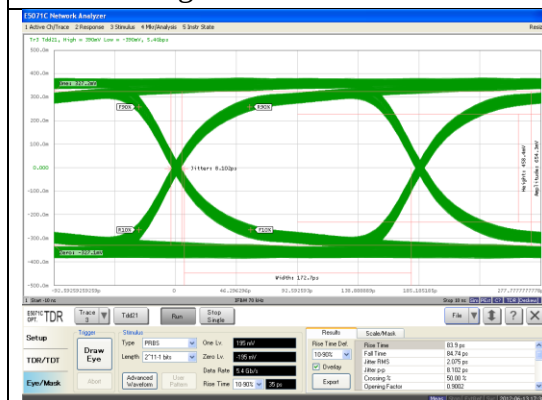


Figure 6-24. L3 Pair

6-2-2. Differential Intra-Pair Skew

Test Pair \ DUT	eDP 1.2 40Pin Test Fixture	
	Result (ps)	Remark
AUX	0.33	Refer to Fig. 6-25
L0	1.29	Refer to Fig. 6-26
L1	2.05	Refer to Fig. 6-27
L2	1.58	Refer to Fig. 6-28
L3	1.77	Refer to Fig. 6-29

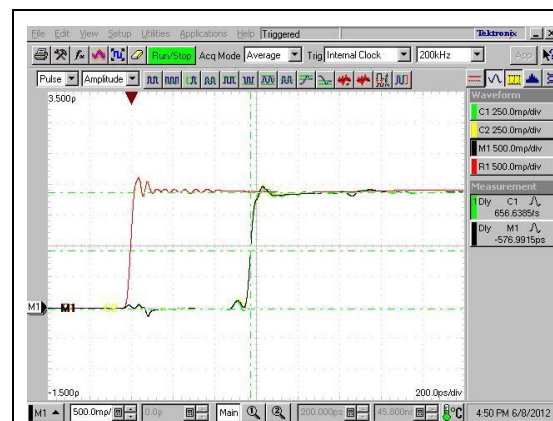


Figure 6-25. AUX Pair

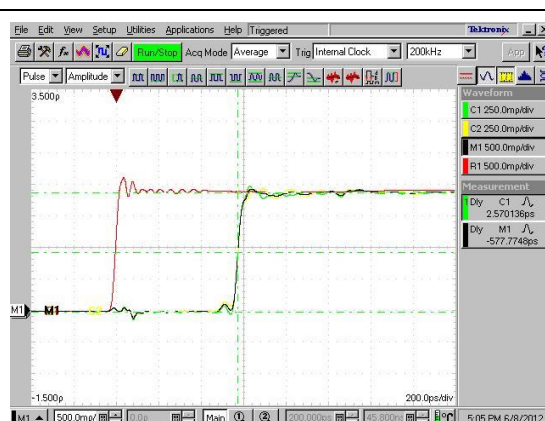


Figure 6-26. L0 Pair

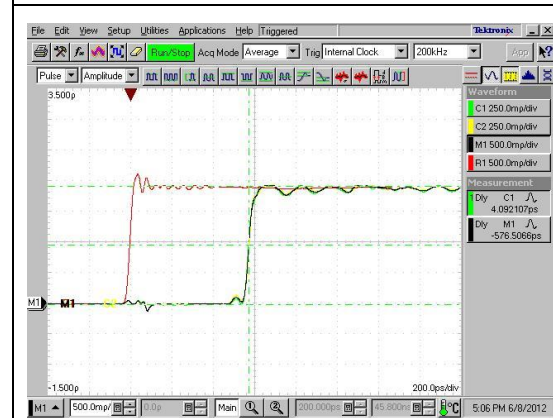
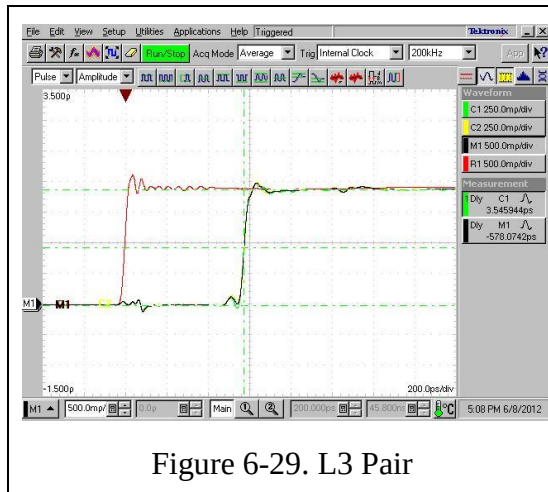


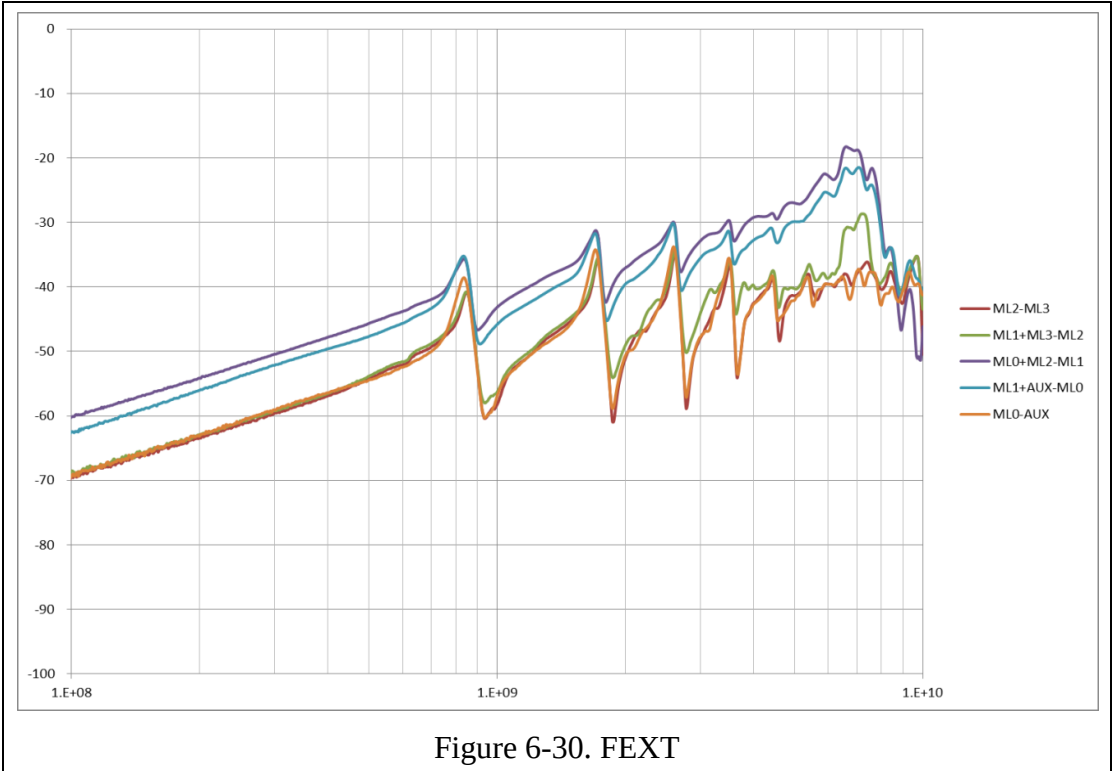
Figure 6-27. L1 Pair



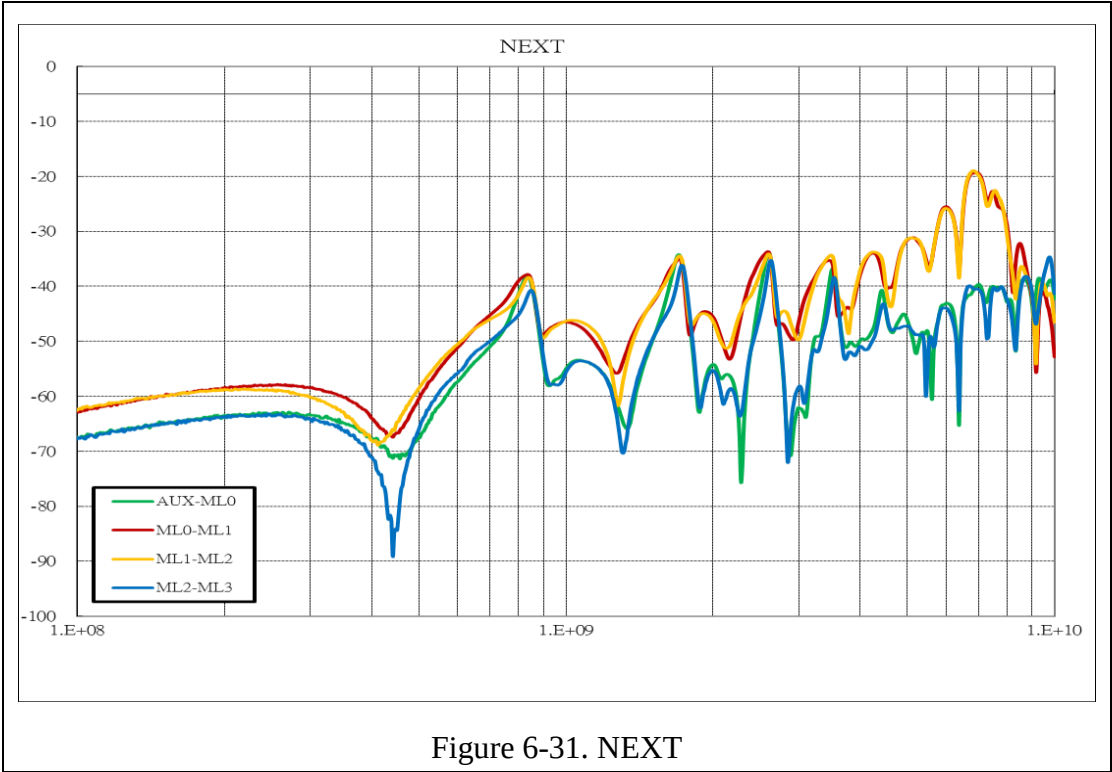
Figure 6-28. L2 Pair



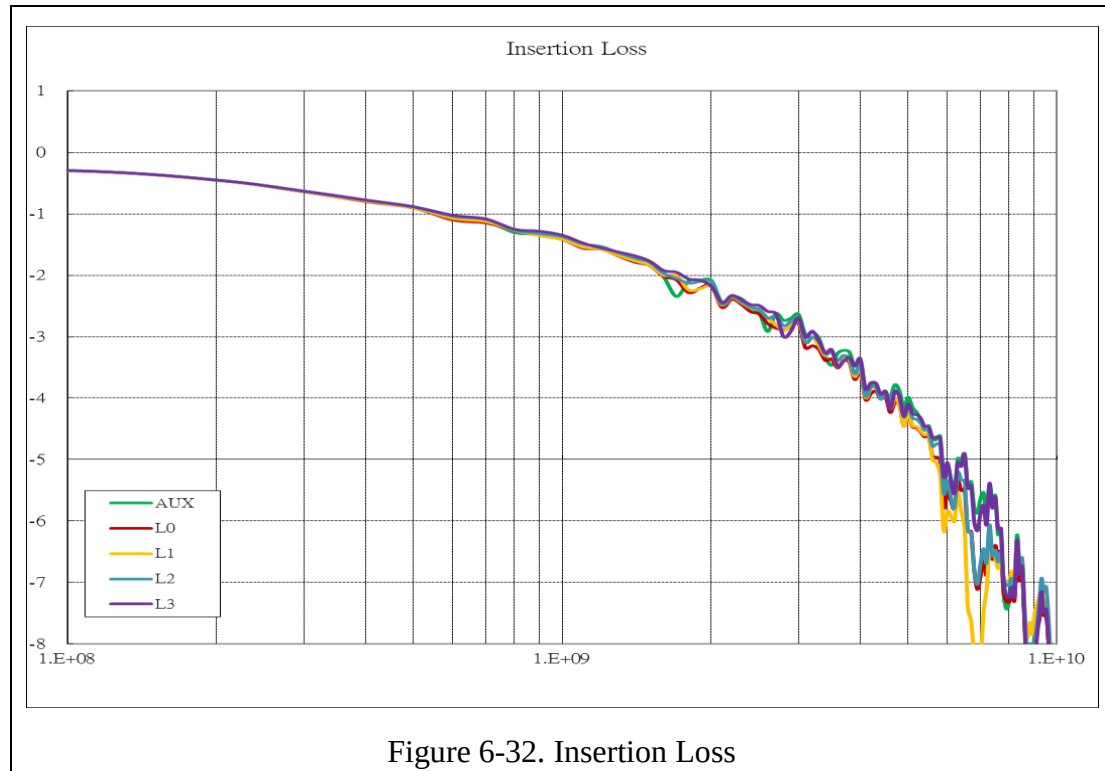
6-2-3. Far-End Crosstalk



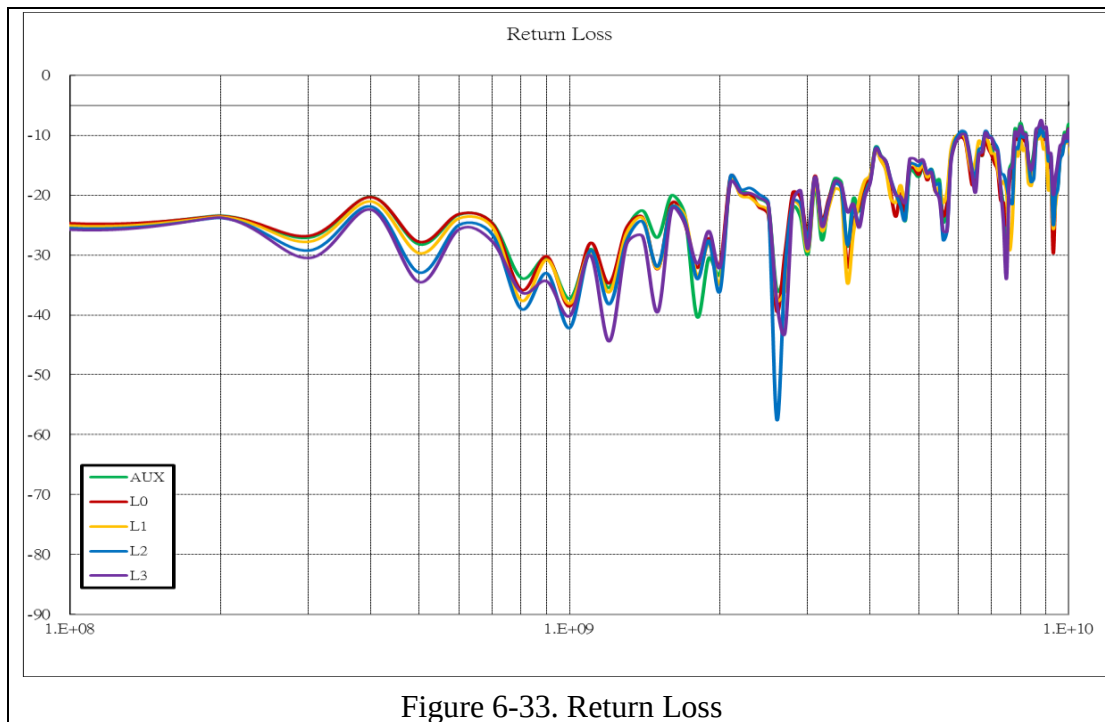
6-2-4. Near End Crosstalk



6-2-5. Insertion Loss



6-2-6. Return Loss



6-2-7. Traces Impedance

Test Item		Impedance (Ω)			
Test Pin	DUT	eDP 1.2 40Pin Test Fixture			
		Max	Min	Δ	Remark
AUX	N-Pair	49.16	48.22	0.94	Refer to Fig. 6-34
	P-Pair	49.22	48.31	0.91	Refer to Fig. 6-35
L0	P-Pair	49.19	48.16	1.03	Refer to Fig. 6-36
	N-Pair	49.22	48.34	0.88	Refer to Fig. 6-37
L1	P-Pair	49.25	48.42	0.83	Refer to Fig. 6-38
	N-Pair	49.34	48.50	0.84	Refer to Fig. 6-39
L2	P-Pair	49.35	48.57	0.78	Refer to Fig. 6-40
	N-Pair	49.34	48.62	0.72	Refer to Fig. 6-41
L3	P-Pair	49.33	48.66	0.67	Refer to Fig. 6-42
	N-Pair	49.33	48.53	0.80	Refer to Fig. 6-43

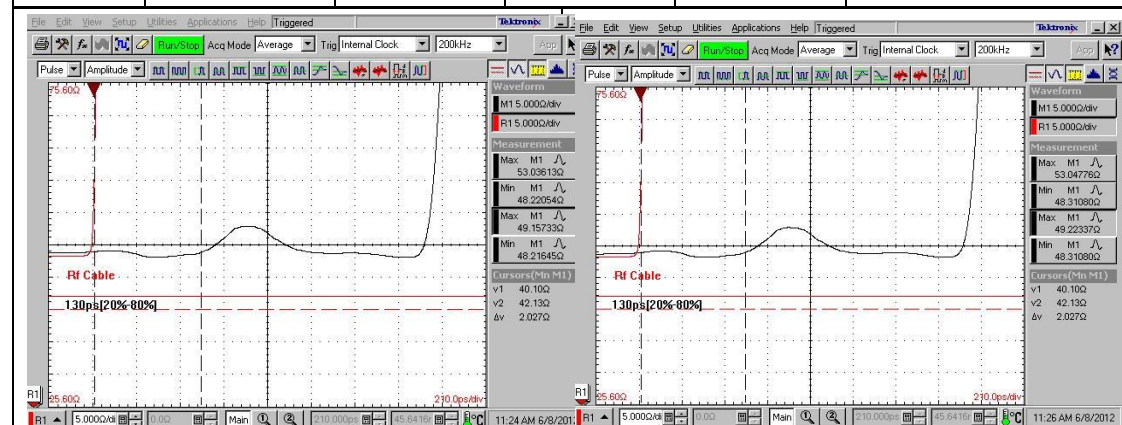


Figure 6-34. AUX N-Pair

Figure 6-35. AUX P-Pair

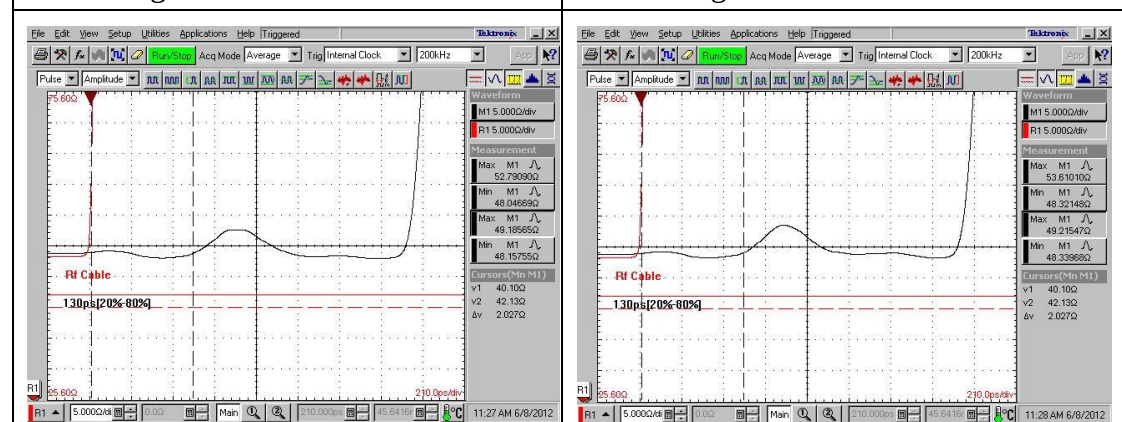


Figure 6-36. L0 P-Pair

Figure 6-37. L0 N-Pair

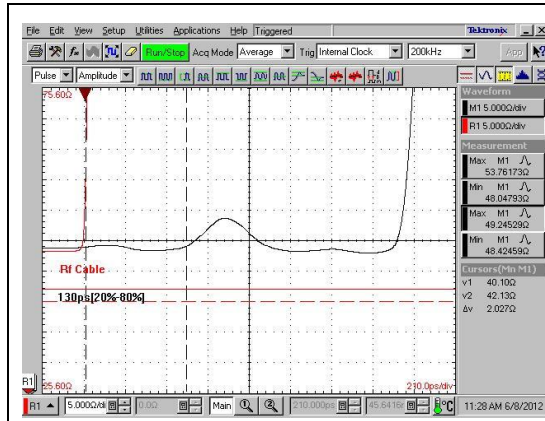


Figure 6-38. L1 P-Pair

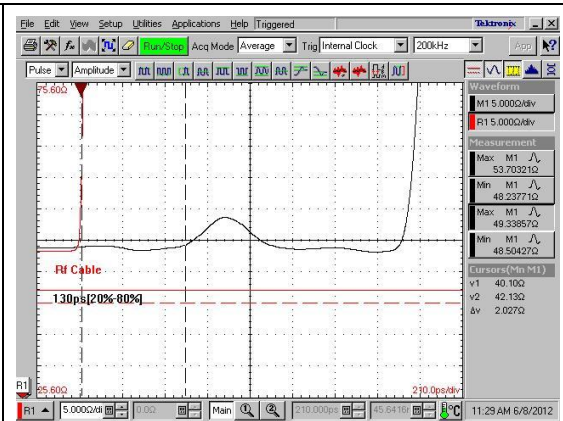


Figure 6-39. L1 N-Pair

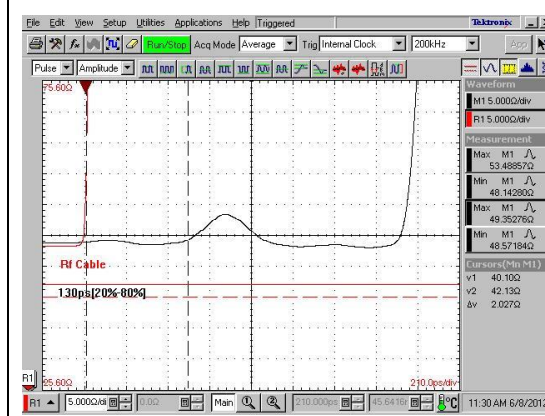


Figure. 6-40. L2 P-Pair

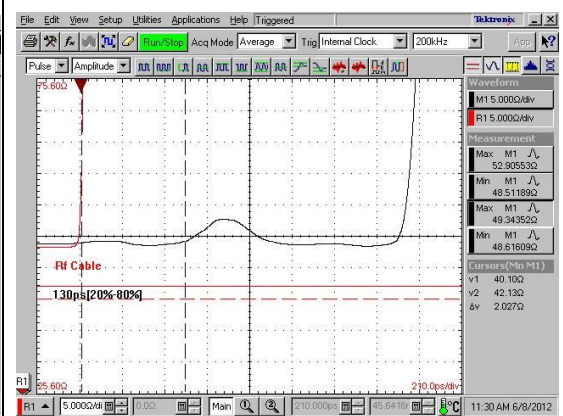


Figure 6-41. L2 N-Pair

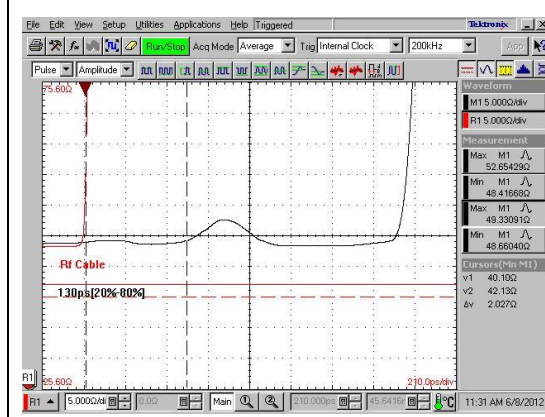


Figure 6-42. L3 P-Pair

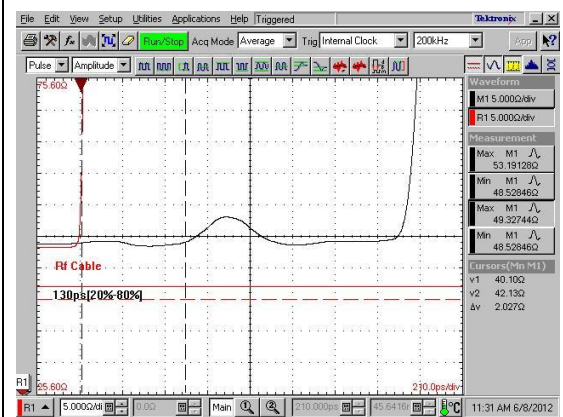


Figure 6-43. L3 N-Pair

6-2-8. Differential Impedance of Mated Connectors

Test Item	Impedance (Ω)			
DUT	eDP 1.2 40Pin Test Fixture			
Test Pin				
Pair	Max	Min	Δ	Remark
AUX	98.14	94.64	3.50	Refer to Fig. 6-44
L0	98.33	94.52	3.81	Refer to Fig. 6-45
L1	98.66	95.34	3.32	Refer to Fig. 6-46
L2	98.83	95.36	3.47	Refer to Fig. 6-47
L3	98.66	95.17	3.49	Refer to Fig. 6-48

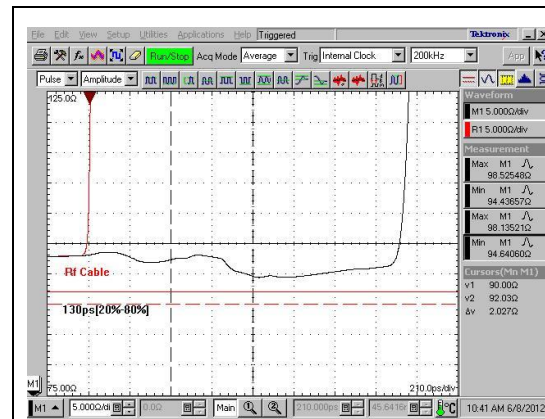


Figure 6-44. AUX Pair

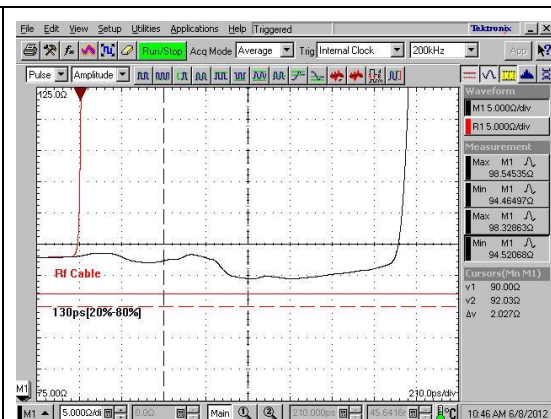


Figure 6-45. L0 Pair

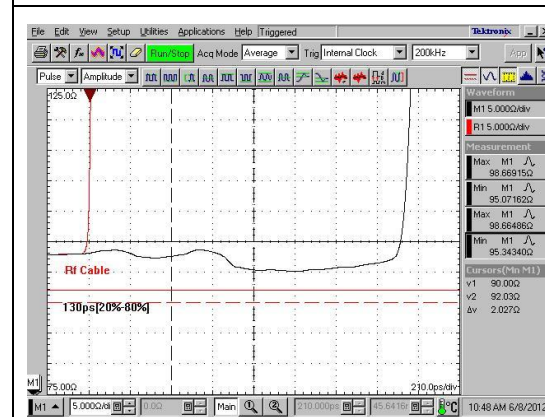


Figure 6-46. L1 Pair

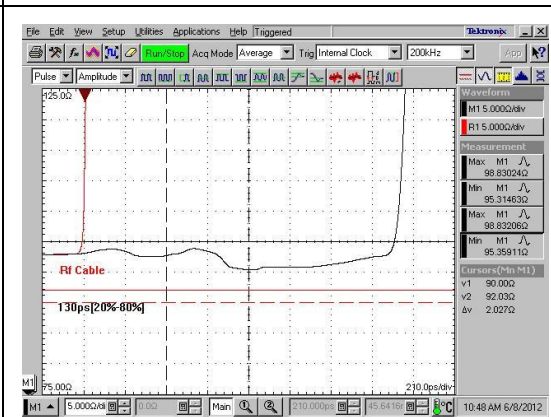
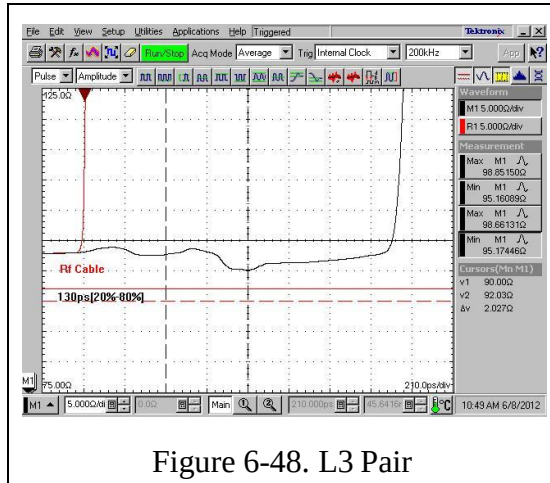


Figure 6-47. L2 Pair



6-3. DP 1.2 1X,2X and SOL Calibration Board

6-3-1. Eye Diagram

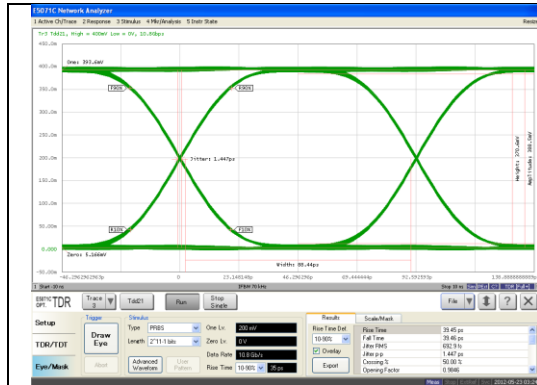


Figure 6-49. 1X Pair

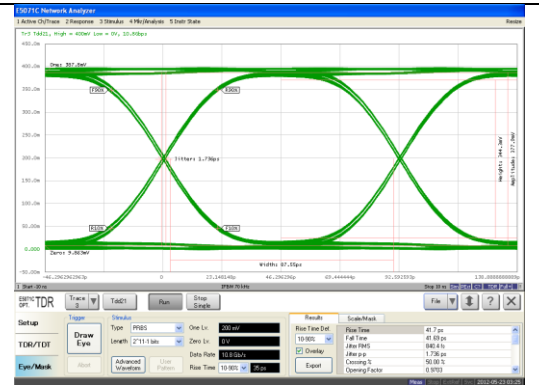
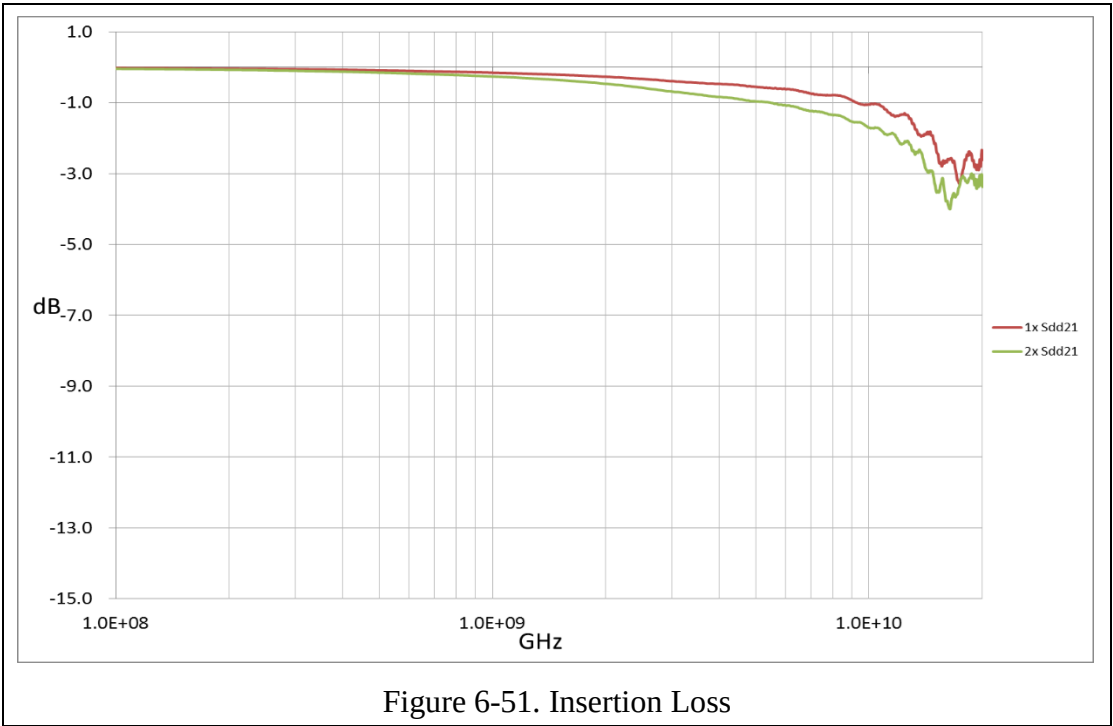
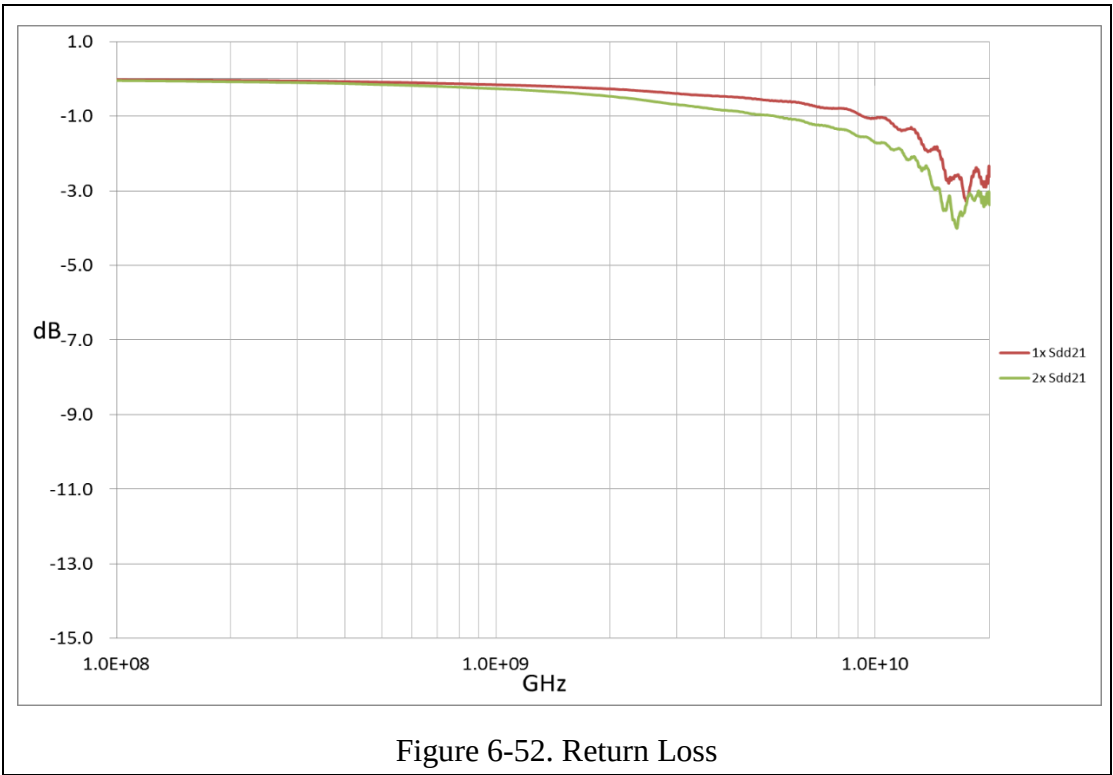


Figure 6-50. 2X Pair

6-3-2. Insertion Loss

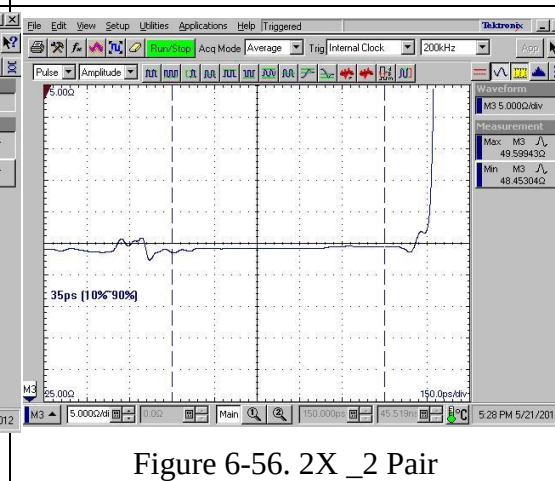
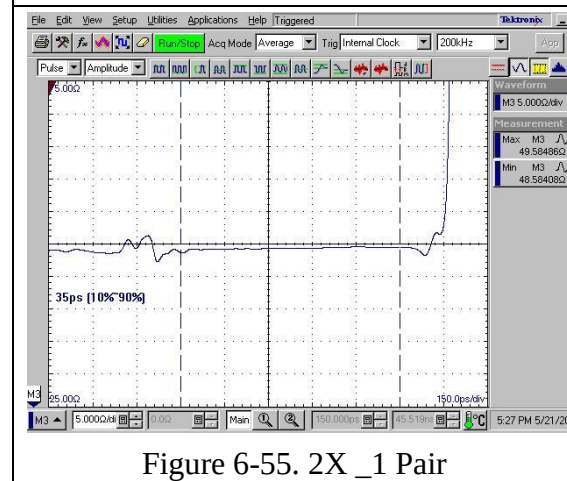
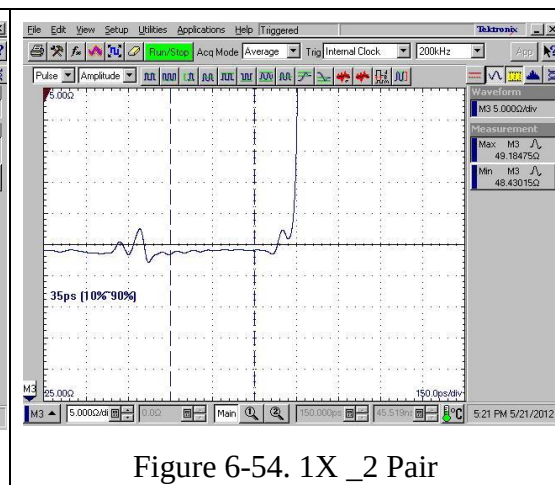
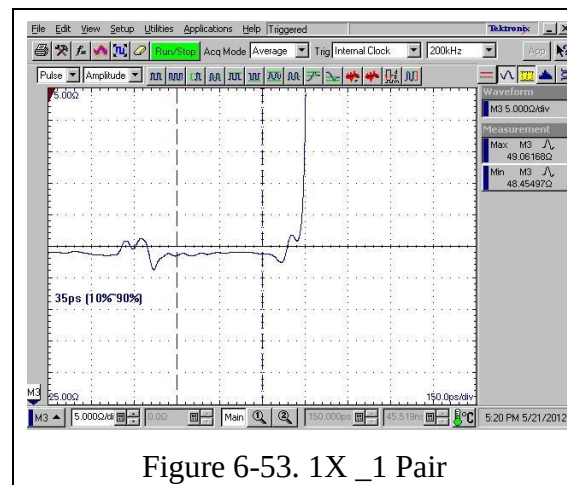


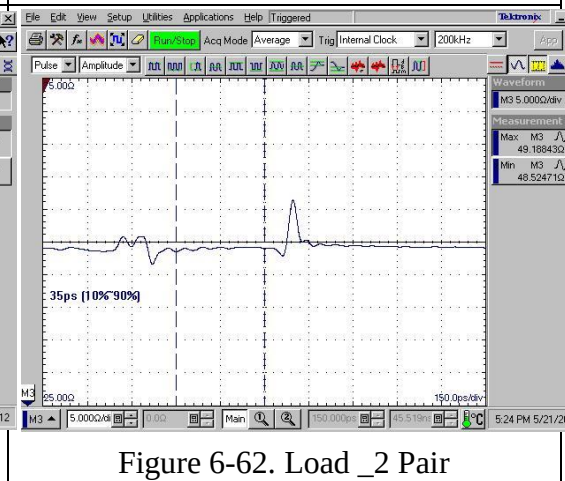
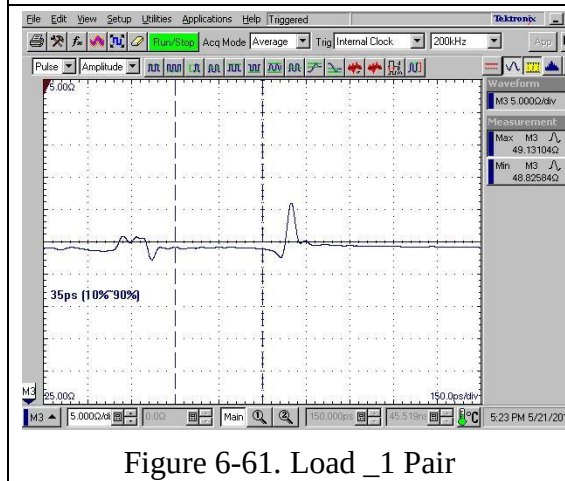
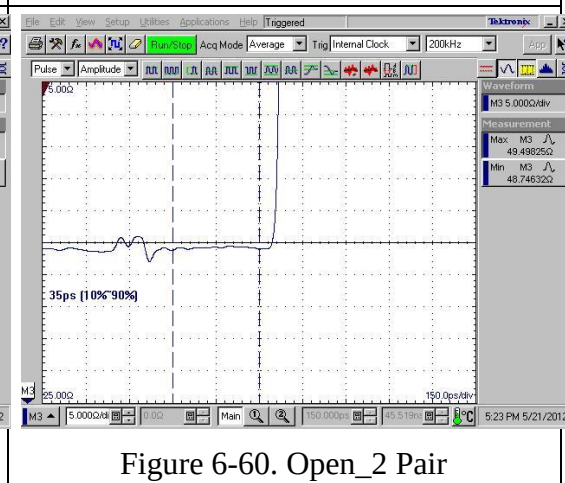
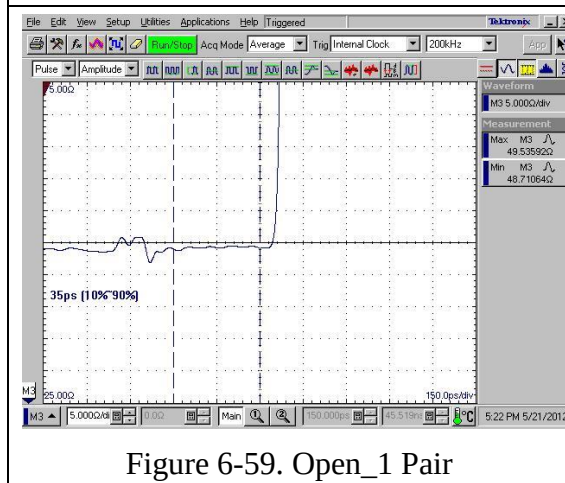
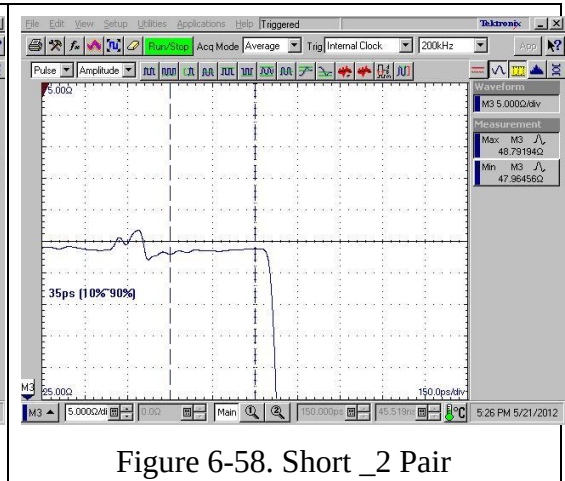
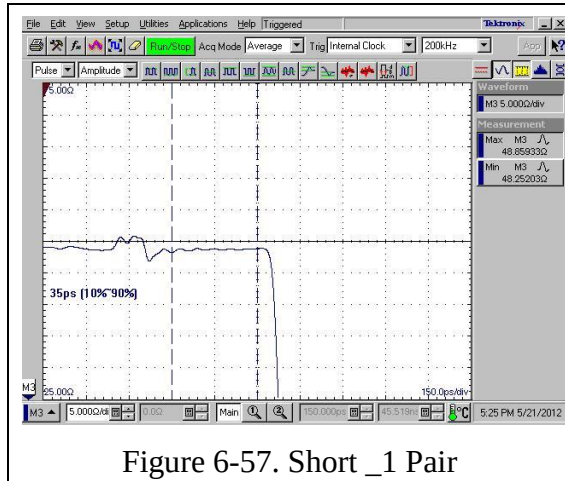
6-3-3. Return Loss



6-3-4. Traces Impedance

Test Item		Impedance (Ω)			
Test Pin	DUT	DP 1.2 1X,2X and SOL Calibration Board			
		Max	Min	Δ	Remark
1X	1	49.06	48.45	0.61	Refer to Fig. 6-53
	2	49.18	48.43	0.73	Refer to Fig. 6-54
2X	1	49.58	48.58	1.00	Refer to Fig. 6-55
	2	49.60	48.45	1.15	Refer to Fig. 6-56
Short	1	48.86	48.25	0.61	Refer to Fig. 6-57
	2	48.79	47.96	0.83	Refer to Fig. 6-58
Open	1	49.54	48.71	0.79	Refer to Fig. 6-59
	2	49.50	48.75	0.75	Refer to Fig. 6-60
Load	1	49.13	48.83	0.30	Refer to Fig. 6-61
	2	49.19	48.52	0.67	Refer to Fig. 6-62





6-3-5. Differential Impedance

Test Item	Impedance (Ω)			
DUT	DP 1.2 1X,2X and SOL Calibration Board			
Test Pin				
Pair	Max	Min	Δ	Remark
1X	98.46	97.52	0.94	Refer to Fig. 6-63
2X	99.42	98.26	1.16	Refer to Fig. 6-64

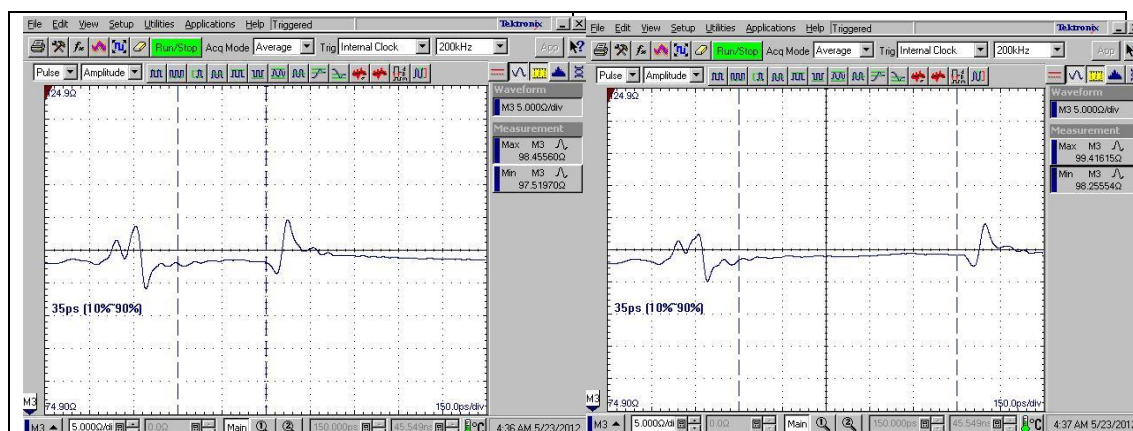


Figure 6-63. 1X Pair

Figure 6-64. 2X Pair

7. 參考資料

7-1. Keysight

(MOI) for DisplayPort1.2b Cable-Connector Assembly Compliance Test

https://www.keysight.com/upload/cmc_upload/All/ENA-TDR_DisplayPort_MOI_rev3.01.pdf