

*Proposed Resolutions to "shall be tested" comments from Lennart –  
General approach – change these to the formula "When tested using the test fixture shown in Figure xxx-yyy and the transmitter in test mode z, the transmitter ..."*

*See proposed resolutions to comments 301, 302, 308, 309, 310 below:*

**CI 146 SC 146.5.4.1 P 140 L 48 #301**

**Comment Type TR**

"Transmitter output voltage shall be tested using test mode 1 in combination with the test fixture shown in Figure 146-17."

We can't put requirements on the tester, only on the device.

*Suggested Remedy*

Rewrite the requirement:

"When tested with the test fixture shown in Figure 146-17 in test mode 1, the transmitter output voltage shall ... <show some property>."

Possibly the very next sentence already covers this. In that case, make the quoted sentence informative.

**PROPOSED ACCEPT IN PRINCIPLE.**

Change "Transmitter output voltage shall be tested using test mode 1 in combination with the test fixture shown in Figure 146-17. The transmitter output voltage shall be 2.4 V ± 5% peak-to-peak (for the 2.4 Vpp operating mode) and 1.0 V ± 5% peak-to-peak (for the 1.0 Vpp operating mode)."

To: "When tested with the test fixture shown in Figure 146-17 with the transmitter in test mode 1, the transmitter output voltage shall be 2.4 V ± 5% peak-to-peak (for the 2.4 Vpp operating mode) and 1.0 V ± 5% peak-to-peak (for the 1.0 Vpp operating mode)."

**Comment Status D**

**Response Status W**

**CI 146 SC 146.5.4.3 P 141 L 21 #302**

**Comment Type TR**

"The transmitter symbol-to-symbol jitter shall be tested using test mode 1 in combination with the test fixture shown in Figure 146-17."

We can't put requirements on the tester, only on the device.

*Suggested Remedy*

Make sentence informative.

**PROPOSED ACCEPT IN PRINCIPLE.**

Change "The transmitter symbol-to-symbol jitter shall be tested using test mode 1 in combination with the test fixture shown in Figure 146-17. The maximum jitter at..."

to "When tested using the test fixture shown in Figure 146-17 with the transmitter in test mode 1, the maximum jitter at..."

**Comment Status D**

**Response Status W**

**CI 147 SC 147.5.4.1.1 P 185 L 3 #308**

**Comment Type TR**

"Transmitter output voltage shall be tested using test mode 1 in combination with the test fixture shown in Figure 147-12."

Puts a requirement on the test(er), rather than on the device.

*Suggested Remedy*

Rewrite to put requirement on the PHY, or make informative.

**PROPOSED ACCEPT IN PRINCIPLE.**

Change "The transmitter output voltage shall be 1 V ± 20% peak-to-peak differential. Transmitter output voltage shall be tested using test mode 1 in combination with the test fixture shown in Figure 147-12."

To "When tested using the test fixture shown in Figure 147-12 with the transmitter in test mode 1, the transmitter output voltage shall be 1 V ± 20% peak-to-peak differential."

**CI 147 SC 147.5.4.1.2 P 185 L 8 #309**

**Comment Type TR**

"Transmitter output droop shall be measured using test mode 2 and with the test fixture shown in Figure 147-12."

Puts a requirement on the test(er), rather than on the device.

*Suggested Remedy*

Rewrite to put requirement on the PHY, or make informative.

**PROPOSED ACCEPT IN PRINCIPLE.**

Change "Transmitter output droop shall be measured using test mode 2 and with the test fixture shown in Figure 147-12. The magnitude of..." To

“When tested using the test fixture shown in Figure 147-12 with the transmitter in test mode 2, the magnitude of...”

CI 147 SC 147.5.4.2 P 185 L 33 #310

*Comment Type* TR

"The transmitter symbol-to-symbol jitter shall be tested using test mode 1 in combination with the test fixture shown in Figure 147-12. The maximum jitter at the transmitter side shall be less than +5 ns symbol-to-symbol jitter."

Puts a requirement on the test(er), rather than on the device.

*Suggested Remedy*

Rewrite to put requirement on the PHY, or make informative.

Does the requirement only hold when using this particular test ?

Or is the test the only way to correctly observe ?

PROPOSED ACCEPT IN PRINCIPLE.

Change ""The transmitter symbol-to-symbol jitter shall be tested using test mode 1 in combination with the test fixture shown in Figure 147-12. The maximum jitter at..."

To "When measured using the test fixture shown in Figure 147-12 with the transmitter in test mode 1, the maximum jitter at..."