-												
C/ 120F	SC 120F.3.1	P 205	L 10	# 36	C/ 120F	SC 120F.3.1	P 205	L 21	# 12			
Ben Artsi, Liav	V	Marvell Tech	nology		Wu, Mau-L	_in	Mediatek					
Comment Type T Comment Status D bucket2 TP0a has been shown to be extremely difficult to be used as a point to measure Specified Tx compliance parameters. D bucket2						Comment Type T Comment Status D bucket2 Linear fit pulse peak (min) is 'TBD x v_f'						
SuggestedRei Follow the	<i>medy</i> e same remed	y as for 163.9.1			Suggestedkemedy Change Linear fit pulse peak (min) from 'TBD x v_f' to '0.55 x v_f' Proposed Response Response Status W							
Proposed Res PROPOS	Sponse ED ACCEPT	Response Status W			PROPOSED ACCEPT IN PRINCIPLE. !!! 2020/7/6 New response. !!!							
!!! 2020/7/	/o new respon	ISE. !!!			Resolv	e using the res	ponse to comment #33.					
Resolve u	ising the respo	onse to comment #33.										
C/ 120F	SC 120F.3.1	P 205	L 20	# 59	The lin	ear fit pulse pe	ak (min.) specification is defi	ned on slide 9 of	heck_3ck_01a_0720.			
Mellitz, Richar	rd	Samtec			C/ 120F	SC 120F.3.2	2.3 P 208	L 53	# 170			
Comment Typ Vf(min) sh SugaestedRei	be TR hould align wit medv	Comment Status D h Av in COM table 120F-6 s	ince Nv=200	bucket2	Ran, Adee <i>Comment</i> Addres	e <i>Type</i> T ssing TBD in tes	Intel Comment Status D st setup requirements.		bucket2			
Replace T	FBD for Vf(mir) with V(fmin)=0.413			"The re	eturn loss of the	test setup in Figure 93C–4	measured at TP5	i replica towards TPt			
Proposed Res	sponse ED ACCEPT	Response Status W			meets the requirements of Equation (TBD)."							
III 2020/7/7 New response. III Resolve using the response to comment #33.						The test fixture can be considered as a channel that the transmitter is connected to. As such, it should meet the ERL requirements of the channel. There are no return loss requirements for a channel.						
						SuggestedRemedy						
The Vf (min.) is defined on slide 9 of heck_3ck_01a_0720.						Change the quoted sentence to						
					"The effective return loss of the test setup in Figure 93C–4 measured at TP5 replica towards TPt meets the requirements of 120F.4.3."							
					Proposed I	Response	Response Status W					
					Resolv	ve using the res	ponse to comment #11078.					

IEEE P802.3ck D1.2 100/200/400 Gb/s Electrical Interfaces Task Force 3rd Task Force review comments

C/ 120F SC 120F.3.2.3

IEEE P802.3ck D1.2 100/200/400 Gb/s Electrical Interfaces Task Force 3rd Task Force review comments

C/ 120G	SC 120G.3.1	P 221	L 17	# 173		C/ 163	SC 163.9.	1	P 177	L 42	# 58		
Ran, Adee		Intel				Mellitz, Rid	chard		Samtec				
Comment Type T Comment Status D bucket2 Addressing EMSW which is TBD.							Comment TypeTRComment StatusDbucket2Vf(min) should align with Av in COM table 163-10 since Nv=200						
 EMSW is not a meaningful measure for a receiver with DFE, since the eye's shape depends on the delay and the transfer function of DFE's feedback path. A DFE mathematical model can have arbitrary delay and transfer function so the value of EMSW (or any eye width parameter) is not well defined. Furthermore, the DFE typically optimizes the eye height, but not necessarily the eye width (whihc requires equalizing the transitions). Trying to optimize for both EW and EH with a single DFE has been done in early versions of PCI express, it can be a futile exercise, and it is not what a real receiver will do anyway. As the experience with COM has shown, for lossy channels and DFE receivers the equalized EH is a good enough figure of merit. Real receivers do not care about asymmetry caused by the DFE. It is suggested to remove EMSW, at least until evidence of the need for it and a robust measurement method is presented. SuggestedRemedy Remove the EMSW specification in this subclause, and also in 120G.3.2 and Table 120G–5 and Table 120G–8. 						Suggesteo Replac Proposed PROP [Editor	Remedy ce 0.4 with 0. Response OSED ACCE 's note: Chan	413 <i>Response S</i> PT IN PRINCIPL ge page from 148	Status W E. 3.]				
						!!! 2020/7/7 New response. !!!Resolve using the response to comment #33.The Vf (min.) is defined on slide 9 of heck_3ck_01a_0720.							
						C/ 163 Wu. Mau-I	SC 163.9. _in	1	P 177 Mediatek	L 45	# 30		
						Comment Type T Comment Status D bucket The "Linear fit pulse peak (min.)" in Table 163-5 is still 'TBD x v_f'. SuggestedRemedy							
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Resolve using the response to comment #231.						Proposed	se to change Response	TBD x v_f' to '0.6 Response S	5 x v_ť. Status ₩				
						PROPOSED ACCEPT IN PRINCIPLE. !!! 2020/7/6 New response. !!!							
						Resolv The lin	ve using the re lear fit pulse p	esponse to comm peak (min.) specif	ent #33. ication is defin	ed on slide 9 of he	eck_3ck_01a_	0720.	

C/ 163 SC 163.9.1

IEEE P802.3ck D1.2 100/200/400 Gb/s Electrical Interfaces Task Force 3rd Task Force review comments

C/ 163	SC 163.9.1.2	P 1	78	L 52	# 1	53
Ran, Adee		Intel				
Comment Typ	pe T	Comment Status	D			bucket2

(Cross-clause)

The test feature normative insertion loss requirements are not realistic for real devices, especially with multiple lanes.

Also, as presented in http://www.ieee802.org/3/ck/public/20_01/mellitz_3ck_01a_0120.pdf, the variations allowed within the recommendations create significant variations in results of compliance parameters. This is obvisouly not a viable methodology anymore.

It is suggested to replace the test fixture requirements with an explicit equation describing s-parameters of a transmission line with 4 dB IL (using equation 93A–14 with appropriate parameters) such that TP0a is well-defined, and create informative specifications at this TP0a. Alternatively, informative specifications can be given at TP0.

Normaitve requirements should use a new methodology based on measued or extracted test fixture s-parameters.

Also applies to Annex 120F.

SuggestedRemedy

A presentation with more details will be provided.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

!!! 2020/7/7 New response. !!!

This comment applies to both 163 and 120F.

The commenter is referring to the following presentation: http://www.ieee802.org/3/ck/public/20_07/benartsi_3ck_01_0720.pdf

The new test point TP0v and related test fixture are adopted per the response to comment #33.

It is not necessary to retain the TP0a test fixture specification as an example or informative specification. Replace the specification of TP0a and the TP0-TP0a test fixture with TP0v and the TP0-TP0v test fixture.

C/ 163	SC 163.9.1.2	P 17	78	L 52	# 31	
Wu, Mau-Lin		Media	atek			
Comment Ty	pe T	Comment Status	D			bucket2

The insertion loss of TP0a test fixture is still keep as between 1.2 dB and 1.6 dB at 26.56 GHz. It may be critial for the state-of-art PCB technology to achieve this small IL value.

SuggestedRemedy

Propose to change '1.2 dB and 1.6 dB at 26.56 GHz' to '2.4 dB and 3.2 dB at 26.56 GHz'.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

!!! 2020/7/6 New response !!!

Resolve using the response to comments #33 and #153, which replace TP0a with TP0v.