Cl Annex SC 113A.3 Cohen, Larry	P 204 Aquantia	L 20	# 135	C/ Annex SC 113A.3 Cohen, Larry	P 204 Aquantia	L 54	# 137
Comment Type E Table reference is inco	Comment Status D		Clamp Test	Comment Type T Clarification of signal g	Comment Status X enerator specification.		Clamp Tes
SuggestedRemedy Change 113A.2 to 113/	A.1			SuggestedRemedy Proposed new modifie	d text:		
Proposed Response PROPOSED ACCEPT				, , , , , , , , , , , , , , , , , , , ,	bable of providing a sine wave s	signal of 80 MHz	to 2000 MHz:
Change 113A.2 to Tabl	P 204	L 35	# 136		tion: < -40 dBc r (while maintaining harmonic c me (output on/off transitions): {		
Cohen, Larry Comment Type T	Aquantia Comment Status X		Clamp Test		erator blocks shown in Figure tor, output power amplifier, and		
Clarification on balun sp component measureme	pecification. Add allowance for ent configurations.	separate different	ial and common-mode	connected together. Proposed Response	Response Status O	·	
SuggestedRemedy				. ,			
Proposed new (modifie	d) text:						
	atory quality with a 100 W balar ed output for the differential cor			Cl Annex SC 113A.3 Cohen, Larry	P 205 Aquantia	L 3	# 138
single-ended output for	the common-mode component	t (Port 3):		Comment Type T	Comment Status X		Clamp Tes
	<> Port 2): < 4 dB (80 MHz-2)				between signal generator and distortion, and envelope rise/fal		
Poturn Loss (Port 1 7r				SuggestedRemedy			
Return Loss (Port 1, Zr Common-Mode Rejection	ion (Port 1 <> Port 2): > 45 dE	3 (80 MHZ-1000 N	/IHz), > 40dB at 2000				
Common-Mode Rejection	ion (Port 1 <> Port 2): > 45 dE	,		Proposed new text for	directional coupler:		
Common-Mode Rejection		,		·	directional coupler:		
Common-Mode Rejecti MHz Common-Mode Return Note 1: The use of two	ion (Port 1 <> Port 2): > 45 dE Loss (Port 1, Zref = 25 W): > 4 separate differential and comm ations is permissible provided th	8dB (80 MHz-200 non-mode signal c	0 MHz) omponent	j) Directional coupler Mainline Insertion Loss Coupling Loss: < 20 dl	s: < 2 dB (80 MHz-2000 MHz)	MHz)	
Common-Mode Rejecti MHz Common-Mode Return Note 1: The use of two measurement configura measurement configura Note 2: The common-m common-mode return lo	ion (Port 1 <> Port 2): > 45 dE Loss (Port 1, Zref = 25 W): > 4 separate differential and comm ations is permissible provided th ation node reference (termination) im oss requirement does not chan	8dB (80 MHz-200 non-mode signal c he above specifica pedance may be s	0 MHz) omponent ations are met for each standard specific. The	j) Directional coupler Mainline Insertion Loss Coupling Loss: < 20 dl Return Loss (Mainline Return Loss (Coupling	s: < 2 dB (80 MHz-2000 MHz) 3 (80 MHz-2000 MHz)	,	
Common-Mode Rejecti MHz Common-Mode Return Note 1: The use of two measurement configura measurement configura Note 2: The common-m	ion (Port 1 <> Port 2): > 45 dE Loss (Port 1, Zref = 25 W): > 4 separate differential and comm ations is permissible provided th ation node reference (termination) im oss requirement does not chan	8dB (80 MHz-200 non-mode signal c he above specifica pedance may be s	0 MHz) omponent ations are met for each standard specific. The	j) Directional coupler Mainline Insertion Loss Coupling Loss: < 20 dl Return Loss (Mainline	.: < 2 dB (80 MHz-2000 MHz) 3 (80 MHz-2000 MHz) Ports): > 20 dB (80 MHz-2000	,	

C/ Annex SC 113A.3 Cohen, Larry	P 205 Aguantia	L 6	# [139	C/ Annex SC 113A.3 Cohen, Larry	P 205 Aquantia	L 24	# 141
Comment Type T Add a directional coupler validation test configuration	Comment Status X for use as a measurement p on. This is a better test config ortion in the signal path to the	guration because	there is significant	Comment Type T	Comment Status X est frequency sweep range.		Clamp Test
SuggestedRemedy				Proposed Response	Response Status 0		
to Figure 113A-3 Cable c	beween the signal generator clamp validation test configura nd put a 50 W termination on Example.	ation. Connect the	e signal sensor to the	C/ Annex SC 113A.3 Cohen, Larry	P 205 Aquantia	L 25	# [142
	3A-3 Example is not intende ose is to show the insertion lo sting figure. <i>Response Status</i> O			Comment Type T Comment Status X Modify text to reflect test frequency sweep range. SuggestedRemedy Change 20 MHz to 100 MHz			Clamp Test
C/ Annex SC 133A.3 Cohen, Larry	P 205 Aquantia	L 21	# 140	Proposed Response	Response Status 0		
Comment Type T	Comment Status X	e clamp validatior	Clamp Test	C/ Annex SC 113A.3 Cohen, Larry	P 205 Aquantia	L 26	# 143
SuggestedRemedy	· · · · · · · · · · · · · · · · · · ·			Comment Type T	Comment Status X		Clamp Test
Proposed new modified to	ext:			Modify text to allow use of an alternate equivalent measurement network configuration in addition to the balun			
impedance is connected	ed in the cable clamp, a sign to one end of the cable clamp nination is connected to the o	o through an inter	mediate directional	SuggestedRemedy Proposed new text:			
Measurement equipment harmonic distortion, and e	(with a 50 W input impedance envelope rise/fall time is conr	ce) for verification lected to the coup	of the test signal power, bled port of the	The cable pairs not connected to the balun (or equivalent measurement network) are terminated in a resistor network.			
directional coupler. It is assumed that the coupling loss and mainline loss of the directional coupler have been previously determined by measurement or other means, and these loss factors are used to correct all measurements to their proper value.				Proposed Response	Response Status O		
Proposed Response	Response Status 0						

C/ Annex SC 113A.3 Cohen, Larry	P 205 Aquantia	L 38	# 144	C/ Annex SC 113A.4 Cohen, Larry	<i>P</i> 206 Aquantia	L 24	# 147		
Comment Type T Modify text to reflect test f	Comment Status X		Clamp Test	Comment Type T Modify text to reflect tes	Comment Status X t frequency sweep range.		Clamp Tes		
SuggestedRemedy Change 1 MHz to 80 MHz	Z			<i>SuggestedRemedy</i> Change 1 MHz to 80 MI	Hz.				
Proposed Response	Response Status O			Proposed Response	Response Status 0				
C/ Annex SC 113A.3 Cohen, Larry	P 205 Aquantia	L 41	# 145	Cl Annex SC 113A.4 Cohen, Larry	P 206 Aquantia	L 28	# 148		
Comment Type T Modify Table 113A-2 to re	Comment Status X	ange.	Clamp Test		Comment Status X quency test sweep increment				
SuggestedRemedy Proposed changes to Tab	ole 113A-2:			SuggestedRemedy Proposed added new te	time at each frequency point xt after line 26:	In the equipment	test procedure.		
	ies (rows) for the validation ro 80 MHz) in Table 113A-2.	equirements (freq	uency ranges of 1 MHz		tput frequency is swept incre				
Proposed Response	Response Status O			step size that should not exceed 1% of the preceding frequency value while using the sign level during the validation process. In any case, the frequency sweep shall use the same frequency point set used during the validation process. During the transition to the next frequency point, the signal generator output shall be off. When the transition is complete, the carrier envelope shall rise to its prescribed amplitude in no less than 50 usec but no more 1.0 msec. Before the next frequency transition, the carrier envelope shall fall to zero amplin no less than 50 usec but no more than 1.0 msec. The dwell time at each frequency shall be the same frequency shall be the same frequency transition.					
C/ Annex SC 113A.3 Cohen, Larry	P 206 Aquantia	L 3	# 146						
Comment Type T In Note 1, modify the text	Comment Status X to reflect test frequency swe	ep range.	Clamp Test	be less than the time necessary for the EUT to be exercised and to respond, but shall in no case be less than 0.5 seconds.					
SuggestedRemedy Proposed new modified te	ext:			Proposed Response	Response Status O				
The signal generator outp dBm for 40GBASE-T) at	ut should be adjusted to the 100 MHz on the signal sense easured power should not va	or. When the freq	uency is varied from 80						
Proposed Response	Response Status								

Proposed Response Response Status O

			,	_	0	rameters for 40Gb/
C/ Annex		113A.4	P 2		L 29	# 149
Cohen, Larr			Aquar			
Comment T Add a c		T nal couple	Comment Status r for use as a measure		oort to Figure 113A	<i>Clamp Test</i> -4 Cable clamp test
	se dist		better test configuratio e signal path to the otl			ant frequency an a cable is inserted in
Suggested	Remed	ły				
to Figur	re 113 port a	A-4 Cable ind put a 5	r beween the signal go clamp test configuration 0 W termination on the	on. Coi	nect the signal ser	
docume	ent. Its	main purp	13A-4 Example is not bose is to show the ins disting figure.			
Proposed F	Respoi	nse	Response Status	0		
C/ 113A	SC	113A.3	P 2	06	L 4	# 189
Feyh, Germ	an		Broad	com C	orporation	
Comment T	уре	т	Comment Status	х		Clamp Tes
chambe the exa the clar power in for setu	er test. ct pos np to l n regio ips tha	Most indu itioning of t MDI. A sign ons of vary	he cable in the clamp hal power calibration to ing transfer function. N paring test results for a	the tea the po 10% Vhile g	at suffers from bein sition of the ferrites aggravates the situation in the impression	g highly variable in e.g. and the distance of ation by boosting signal n of higher repeatability,
SuggestedF	Remed	ły				
Remove "When power s	e text: the fre should	equency is not vary m	varied from 1 MHz to lore than ±10 %. If the e applied at each mea	measu	ired power varies n	nore than $\pm 10\%$, then a
					-	
Proposed F	Respoi	nse	Response Status	0		