EE 802.3db D2.0 100G, 200G, 400G Short Reach Fiber Task Force Initial Working Group ballot comment

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C/ 167 SC 167.7.	2 P53	L 44	# 40	C/ 167	SC 167.7.1	P 51	L 28	# 195				
Ghiasi, Ali	Ghiasi Quan	tum/Marvell		Dawe, Pier	S	Nvidia						
Comment Type TR	Comment Status R			Comment 7	Type TR	Comment Status R						
It was shown that TDECQ with MMSE is accurate and reduce test time and associated test cost. https://www.ieee802.org/3/db/public/September-09-September-29- 2021/ghiasi_802.3db_01_092321.pdf				As the channel or signal is relatively slower than for any other optical PMDs so far, we should expect higher Ceq, contributing to TDECQ, but we should not expect higher K because we have 9 taps rather than 5, and 2% threshold adjust rather than 1%. We expect that TDECQ, Ceq and K measurements with 2% threshold adjust will be more accurate								
better, as shown by measurements. MN	tive of real receiver and a full of in Ghiasi contribution there is e ISE will reduce test time specil of ull grid search and will increa	excellent correlation lay given 802.3db	on for scope	optimis after ar limit int The K'	e the spec con nd before the fil ended to pass	is, so we need less padding sidering these things, encou ore. The K' limit can catch s all good signals would miss o VEC in C2M and EVM in c	raging good equal some bad transmit - and K' is a free b	lisable signals both tters that an overshoot by-product of TECQ.				
Response	Response Status U	Response Status U										
REJECT. No specific proposal was presented. A straw poll did not show consensus for a change.				Insert row for K'=TECQ-10.log10(Ceq'), limit 4 dB (where K' and Ceq' are the two parts of TECQ as K and Ceq are the two parts of TDECQ). For both VR and SR.								
				Response		Response Status U						
Straw Poll: I support replacing the existing method of optimizing TDECQ with an MMSE approach Yes 4 No 5 Abstain 9				REJECT. Based on Straw Poll: I favor including a limit on K' for								
Need more informat	ion 3			VR SR	2 0							
Cl 167 SC 167.9. Nienckowski, Natalie Comment Type TR Should refer to Anno	1 P59 General Mot Comment Status A ex J. IEC 60950-1 is obsolete.	L 54 ors	# 69	Both Neither Abstair	-							
	ent subject to this clause shall neeting this standard shall conf											
Response ACCEPT IN PRINC See also comments												
Change this sentene	ce to "All equipment subject to	this clause shall c	onform to J.2."									

Comment ID 195