

Replace 120D.3.2.1 with the following.

120D.3.2.1 Receiver interference tolerance

Receiver interference tolerance is defined by the procedure in Annex 93C with the exceptions that transmitter equalization is configured by management (see 120D.3.2.3) to the settings that provide the lowest RS-FEC symbol error ratio and there is no RSS_DFE4 requirement for the test channels. The receiver on each lane shall meet the RS-FEC symbol error ratio requirement with channels matching the Channel Operating Margin (COM) and loss parameters for Test 1 and Test 2 in Table 120D–5. The following additional considerations apply to the interference tolerance test.

- The test transmitter is constrained such that for any transmitter equalizer setting the differential peak-to-peak voltage (see 94.3.12.3) is less than or equal to 800 mV.
- The lower frequency bound for the noise spectral density constraints, f_{NSD1} , is 1 GHz.
- For the calculation of test channel COM, the following parameters are based on values measured from the test transmitter. The parameter SNR_{TX} is set to the measured value of SNDR, the parameter R_{LM} is set to the measured value of R_{LM} , the parameter σ_{RJ} is set to the measured value of CRJrms from the test transmitter, and the parameter A_{DD} is set to half the measured value of CDJ.
- Other COM parameters are set according to the values in Table 120D–7.
- The test pattern is the scrambled idles test pattern.
- A test system with a fourth-order Bessel-Thomson lowpass response with 33 GHz 3 dB bandwidth is to be used for measurement of the signal applied by the pattern generator and for measurements of the broadband noise.

Note: The following modifications to Table 120D–5 assume that comment #97 has been accepted.

Table 120D–5—Receiver interference tolerance parameters

Parameter	Test 1			Test 2			Units
	Min	Max	Target	Min	Max	Target	
RS-FEC Symbol error ratio ^a	—	10^{-4}	—	—	10^{-4}	—	—
Insertion loss at 13.2813 GHz ^b	9.5	10.5	—	19.5	20.5	—	dB
COM including the effects of broadband noise	—	—	3	—	—	3	dB

^aThe RS-FEC symbol error ratio is measured in step 11 of the receiver interference tolerance method defined in 93C.2.

^b Measured between TPt and TP5 (see Figure 93C-4).

Note: If the proposal [hegde 3bs 03 0316.pdf](#) is adopted, then item c) needs to be modified to describe a mapping from J_{RMS} and J_5 to σ_{RJ} and A_{DD} .

- For the calculation of test channel COM, the following parameters are based on values measured from the test transmitter. The parameter SNR_{TX} is set to the measured value of SNDR and the parameter R_{LM} is set to the measured value of R_{LM} . The parameters A_{DD} and σ_{RJ} are derived from the measured values of J_{RMS} and J_5 using equations 120D–x and 120D–y.

$$A_{\text{DD}} = \text{TBD}$$

Equation 120D–x

$$\sigma_{\text{RJ}} = TBD$$

Equation 120D–y