Descriptive Document for Comments 272 and 273
per Lenin Patra and Dan Smith
5-Dec-2016, using Draft 2.0.

This supersedes:
http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_IL.pdf and
http://www.ieee802.org/3/cb/public/nov16/calbone_3cb_01_1116.pdf

Make the following changes to Table 128C-1:

Table 128C–1—Insertion loss parameters

Parameter	Value for 2.5GBASE-KX	Value for 5GBASE-KR	Units
$F\,min$	0.05		GHz
$F\,max$	*REVISE - see below*		GHz
b_1	2E-5		
b_2	1.1E-10		
b_3	4.1E-20		
b_4	-1.6E-30		
f_1	0.312	0.5	GHz
f_2	1.5625	2.578125	GHz
f_a	0.1		GHz
f_b	1.5625	2.578125	GHz

Change the Fmax row to remove the '7', and subdivided it with:

2.5G column as 2.34375
and the
5G column as 3.8671875 .

Create 2 new sub-sub clauses as shown below.

(add first new sub-sub clause)

128C.4.3.1 Insertion loss - 2.5 Gb/s

Place equation 128C-7 here with the following change:

Revise equation 128C-7, as shown below.

$$Insertion\_loss(f) \leq \begin{cases} 0.668 + 3.755\sqrt{f} + 3.608f & Fmin \leq f < f2 \\ -23.753 + 22.242f & f2 \leq f < Fmax \end{cases} \text{(dB)} \qquad \text{(128C-7)}$$

Below the equation, change the title of Figure 128C-3 to be:

Figure 128C-3 - Insertion Loss at 2.5 Gb/s

(add second new sub-sub clause)

128C.4.3.2 Insertion loss- 5 Gb/s

Place equation 128C-8 here, as shown below. (this should bump the numbering in all remaining equations in subclause 128C.4.3.

$$Insertion\_loss(f) \leq \begin{cases} 0.668 + 3.755\sqrt{f} + 3.608f & Fmin \leq f < f2 \\ -18.753 + 13.48f & f2 \leq f < Fmax \end{cases} \text{(dB)} \qquad \text{(128C-8)}$$

Add a second plot that is titled:

Figure 128C-4 - Insertion Loss at 5 Gb/s

Plot is based on equation 128C-8 above; Dan Smith to supply the plot for Figure 128C-4.

The words "High Confidence Region" are not needed/desired, as shown in the previous help documents, as these are Insertion Loss plots and their understanding is clear.