Optical Transmitter Output Jitter Spec Removal Proposal

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Comment #160

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Background

- At the September Interim, during D2.1 comment resolution, based on Comment #399 resolution proposal, Transmitter Jitter Spec was added to D2.2:
  - Table 180-7 / DRn, 181-5 / FR4-500, 182-7 / DRn-2, 183-6 / FR4, LR4 Transmit Characteristics “Output jitter, each lane (max)” line
  - 180.9.15, 181.9.15, 182.9.15, 183.9.15 Output Jitter
- After adoption, concerns were presented in a late contribution.

Concerns

- The following are updates to the concerns in the late contribution
- Despite proposal to add optical Tx jitter test during multiple 802.3 SMF optics consensus-building calls for more than a year, there is no optics industry support
- The 100G/lane data presented in the proposal doesn't work:
  - measured J4u03 exceeds the proposed spec limit with no added SJ or RJ
  - no EOJ03 data
- There is no supporting 200G/lane jitter data despite 200G Tx optics availability
- The presentation must use a BER test to demonstrate there is a Tx jitter problem
- The test requires new or extended data acquisition test time (cost) without benefit
- Optics industry 200G/lane optical Tx jitter data is unlikely because the test is not seen as useful and this measurement is not done.

Spec Removal Proposal

- Remove “Output jitter, each lane (max)” line from D2.2 Table 180-7 (DRn), 181-5 (FR4-500), 182-7 (DRn-2), 183-6 (FR4, LR4) Transmit Characteristics
- Remove 180.9.15, 181.9.15, 182.9.15, 183.9.15 Output Jitter from D2.2.

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Thank you