802.3bj 100GBASE-CR4
Comments D2

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Purpose

- **Additional material addressing comments against 802.3bj Draft 2.0**

- **Comment(s)**
  - **#187 (Mated test fixtures)**

Mated test fixture

Cl 92 SC 92.8.4.2 P 180 L 3 # 187

Dudek, Mike QLogic

Comment Type TR *Comment Status* D

There is no specification for the mated compliance board common mode to differential return loss despite there being a specification for this for the receiver. With a realistic specification (that adopted by OIF VSR) at high frequencies the host product specification for the common mode to differential conversion is too close to that of the mated compliance boards making the specification almost impossible to meet. I will bring a presentation showing the effect to the Victoria meeting.

SuggestedRemedy

Add a specification for the mated compliance board common mode to differential return loss. Specification to be minimimum 30-5/7*f dB for 0.01<f<14 GHz and 25-5/14*f dB for 14<f<25 GHz. Change the product specification in equation 92-6 above 12.89Ghz from 12dB flat to -18 + 6/25.78*f which matches the specification OIF adopted for VSR at their last meeting.

Proposed Response *Response Status* W

PROPOSED ACCEPT IN PRINCIPLE. For committee discussion review with Dudek_3bj_01_0513.pdf

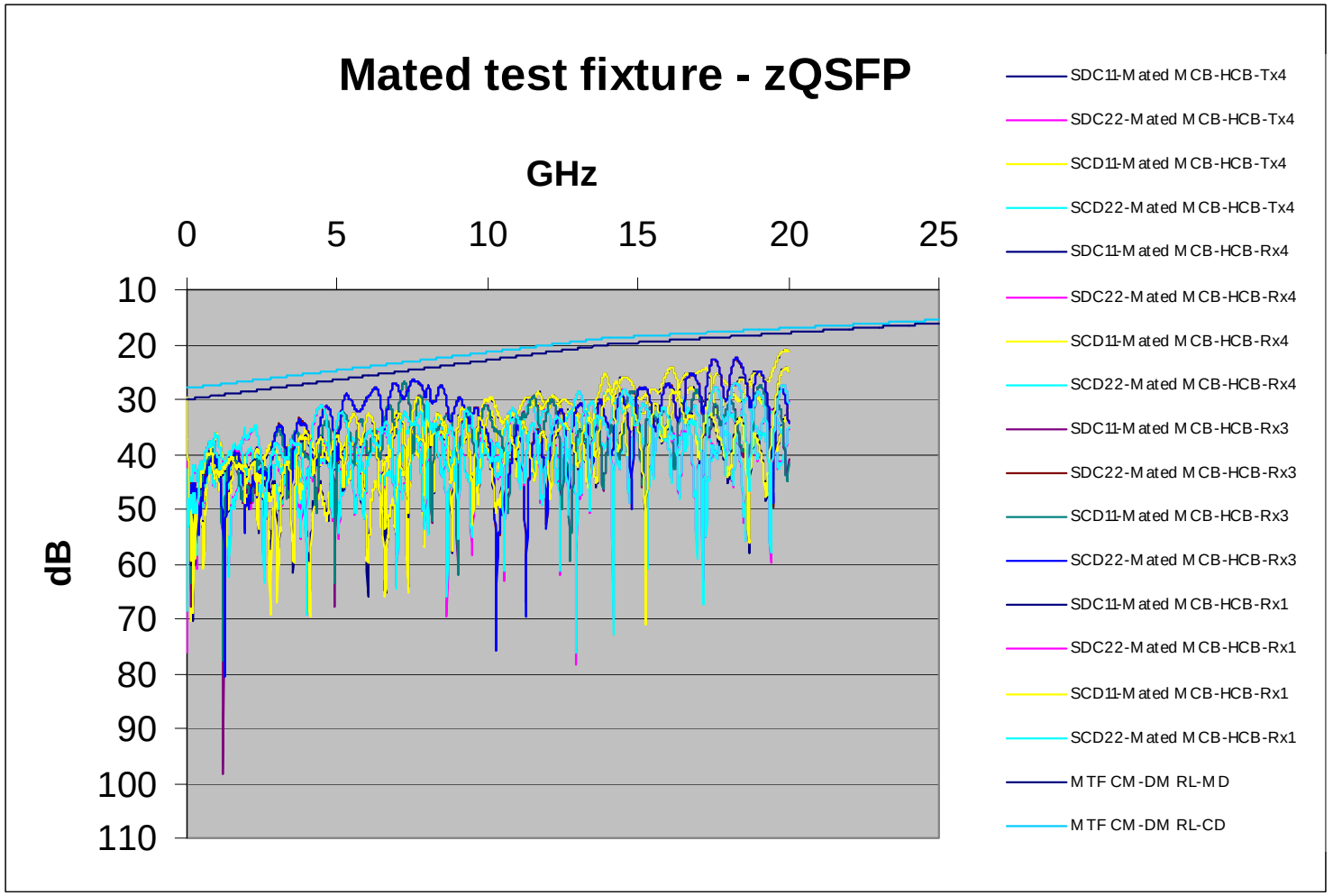
Supporting text from dudek_3bj_01_0513

- OIF VSR has a specification for the compliance board (TP2 or TP3 test fixture) below which was based on measurements of compliance boards. Recommend we add this to 802.3bj. (comment 187 and 236)

HCB-MCB SCD11,SCD22 and SDC11,SDC22 ≤ -30+(5/7)f dB for f < 14 GHz (13-11)

HCB-MCB SCD11,SCD22 and SDC11,SDC22 ≤ -25+(5/14)f dB for 14 GHz < f < 28.1 GHz

Mated test fixture – CM–DM RL (SDC11/22)



Molex zQSFP – S4P measurement data provided by Michael Rost – Molex

Minimum Mike Dudek –C#187

30-5/7*f dB 0.01<f<14 GHz

25-5/14*f dB 14<f<25 GHz.

Proposed change –C#187

28-0.658*f dB 0.01<f<14 GHz

23-0.3*f dB 14<f<25 GHz.