

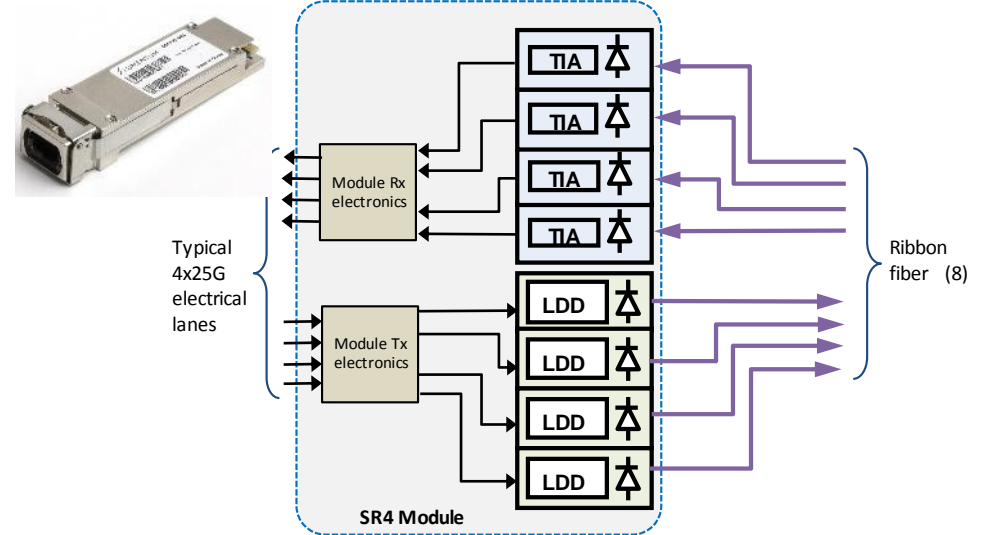
BMP for 4-wavelength PMDs – evidence from 100G-SWDM4 modules

David Lewis, Lumentum

100G SR4 and SWDM4

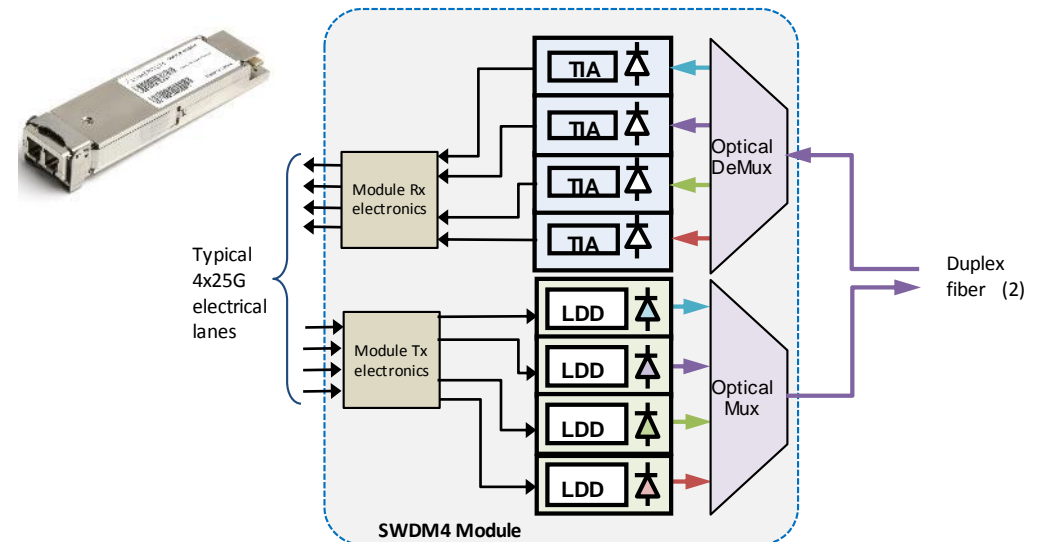
SR4

- 4 Tx + 4 Rx = 8 fibers needed per 100G link
 - IEEE standard (100GBASE-SR4) for optical specs
 - IEEE CAUI-4 on electrical side
- Use cases
 - Datacenters, Enterprise where full IEEE compliance required
 - Upgrade from existing SR4 fiber plant or where fiber cost is secondary



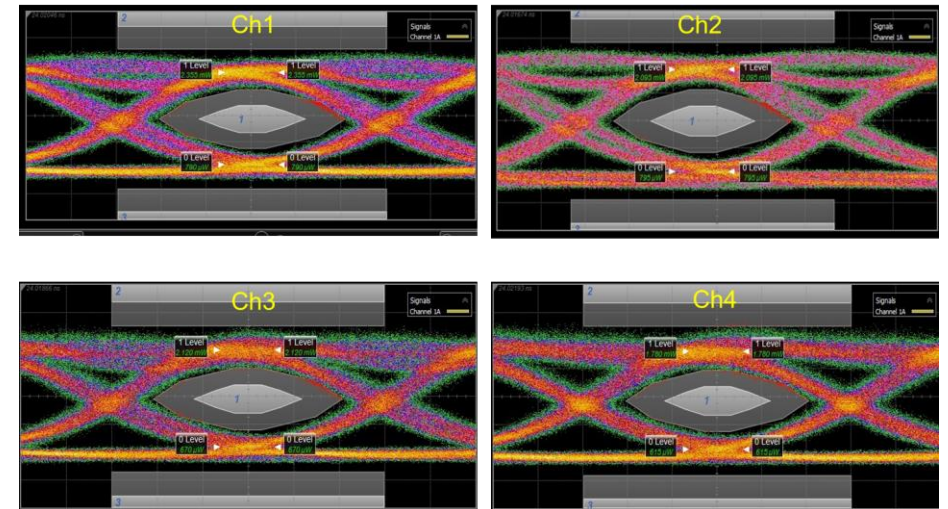
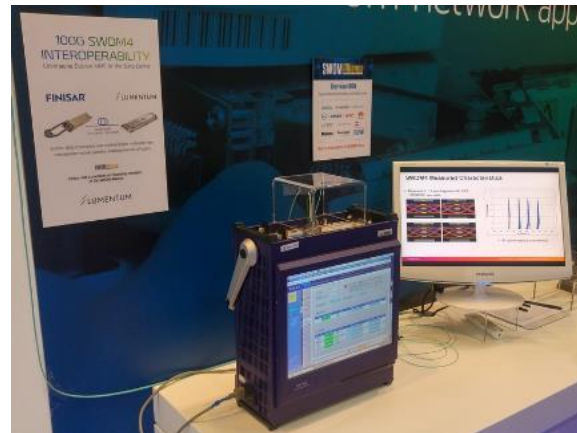
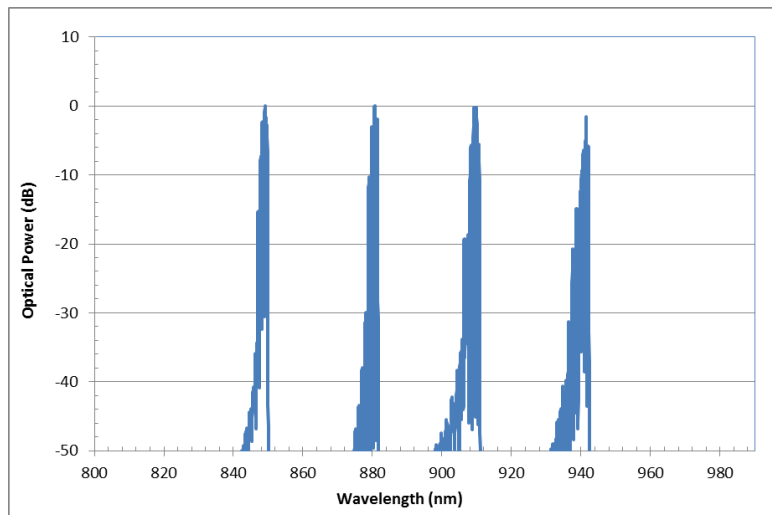
SWDM4

- 1 Tx + 1 Rx = 2 fibers/100G link
 - SWDM industry MSA for optical specs
 - IEEE CAUI-4 on electrical side
- Use cases
 - Datacenters, Enterprise with legacy duplex fiber (direct upgrade from 10G)
 - Greenfield where fiber costs matter

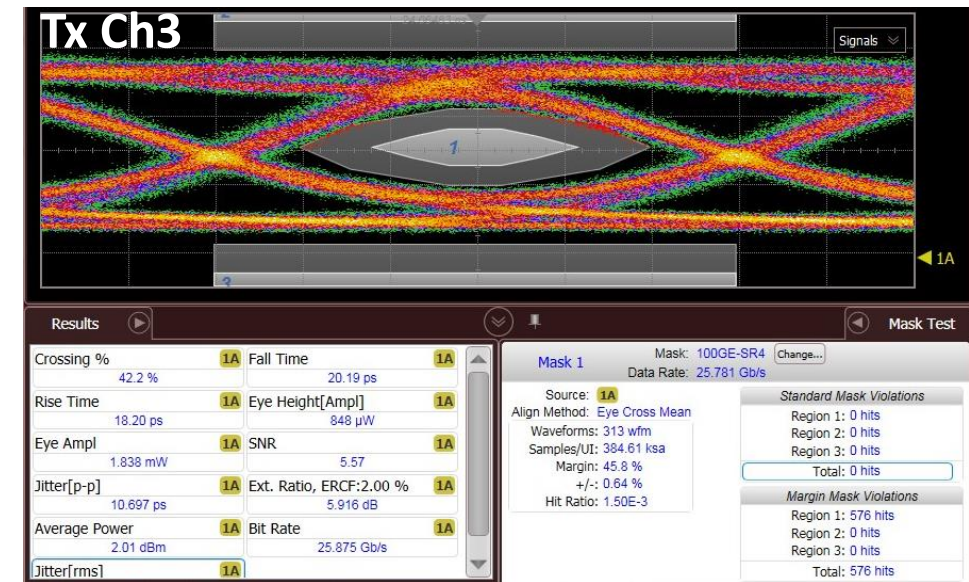
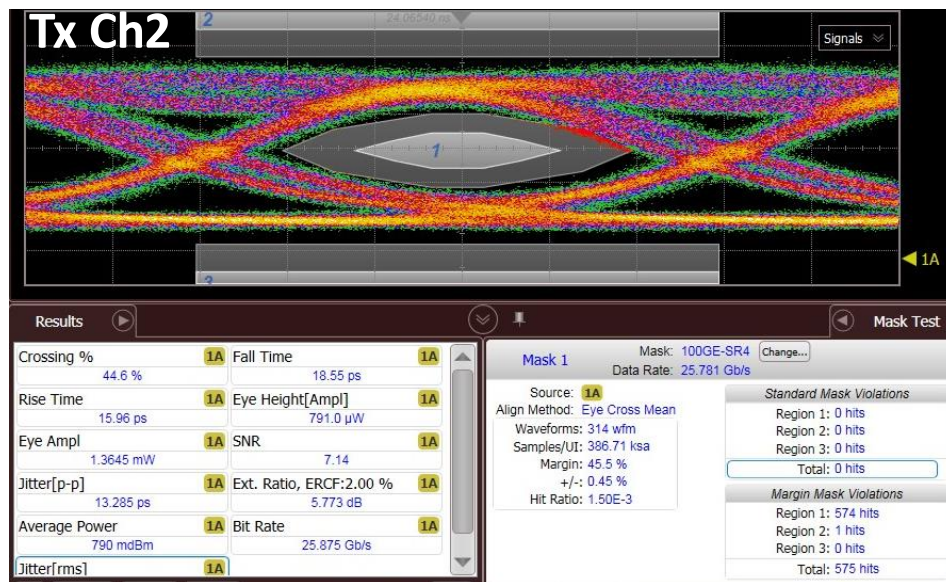
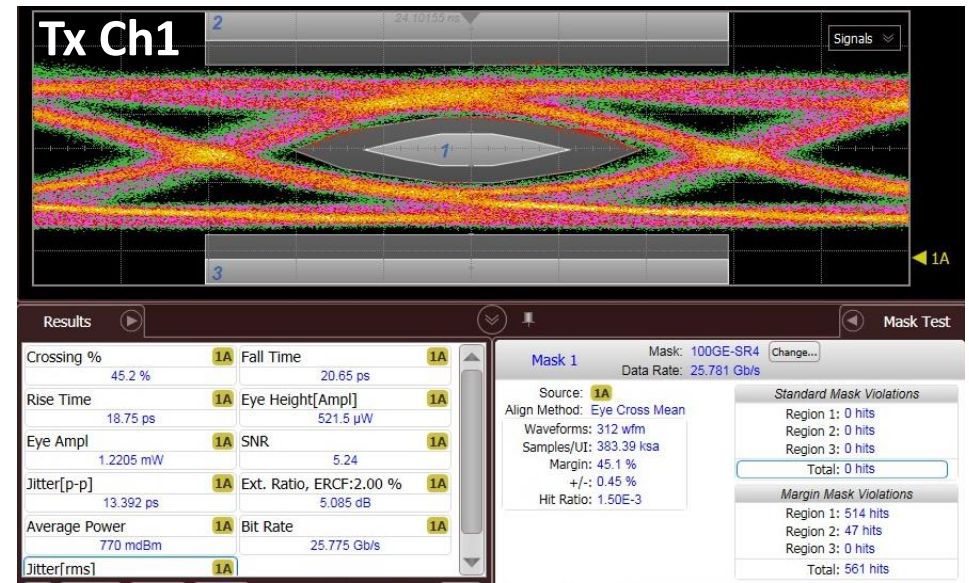
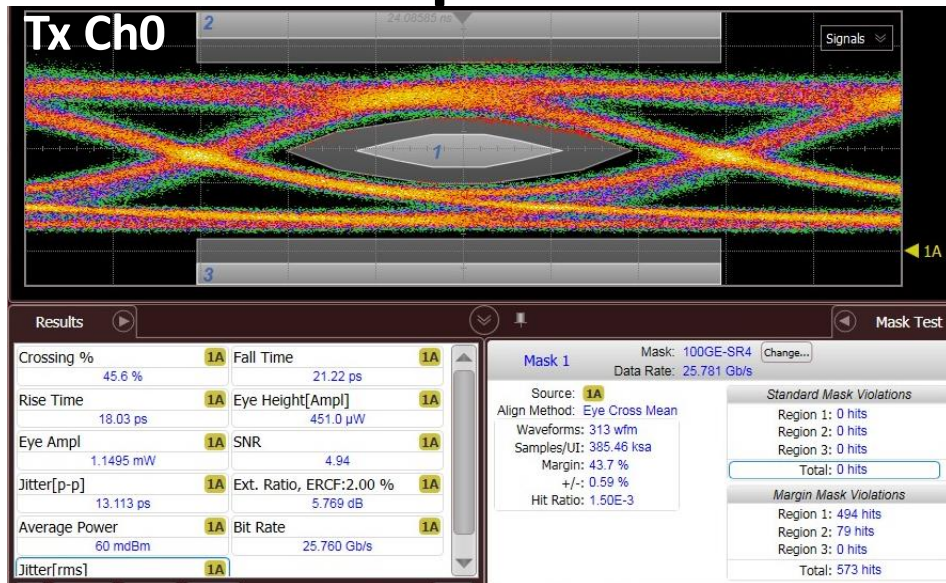


Interoperability

- Demonstrated interoperability with another vendor's SWDM4 module (at ECOC 2016)
 - Error free operation over 100m OM4 duplex MMF

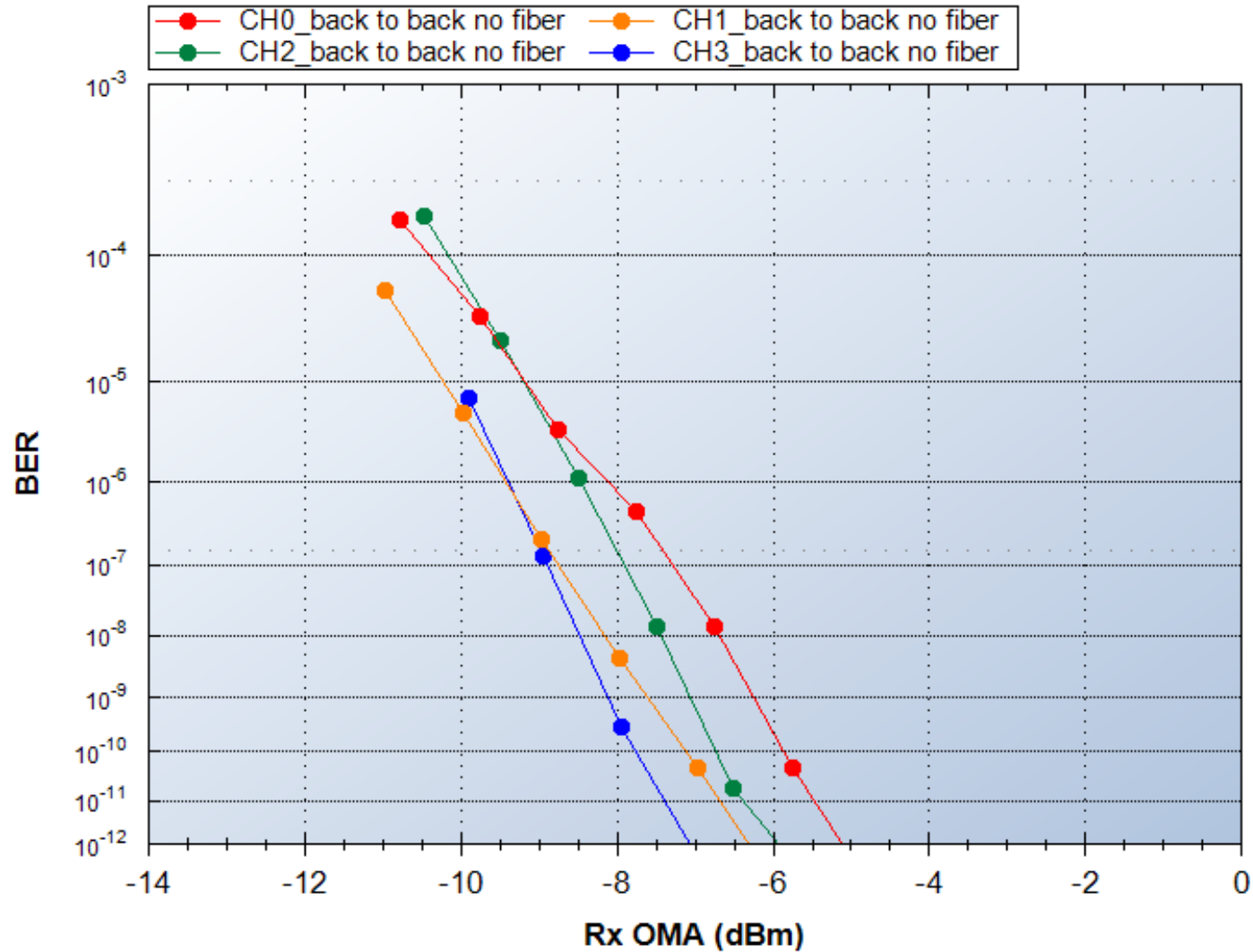


Sample Unit SN RG4870850003-A

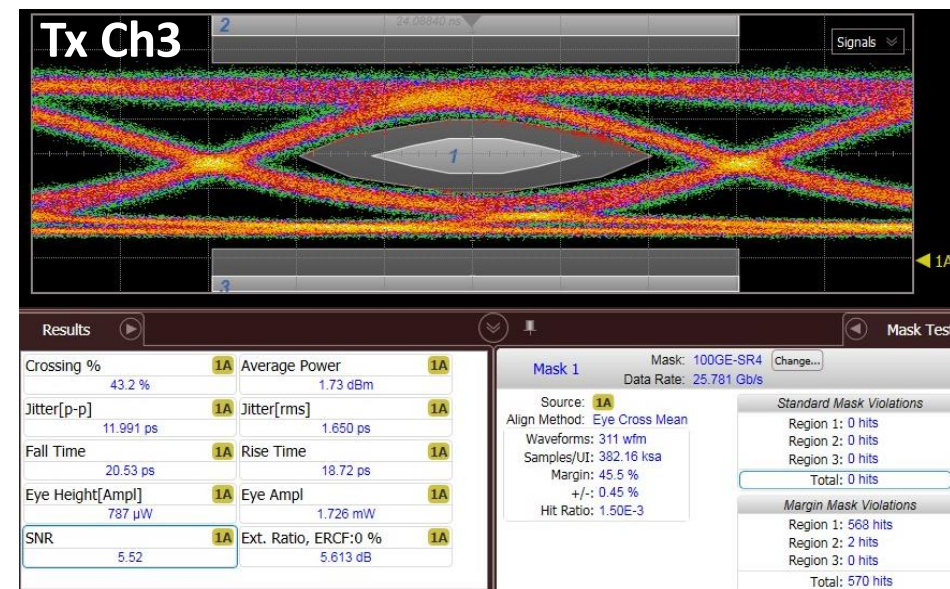
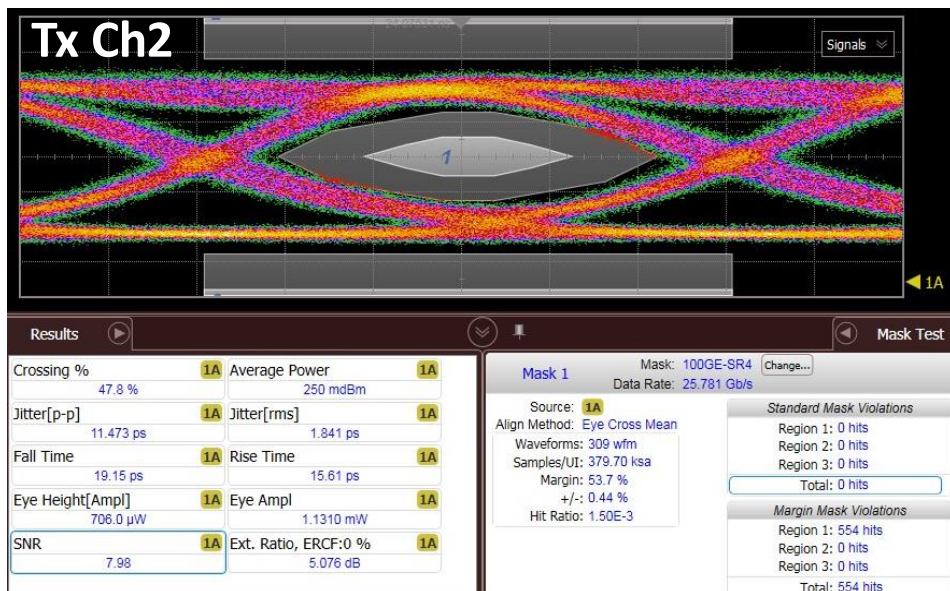
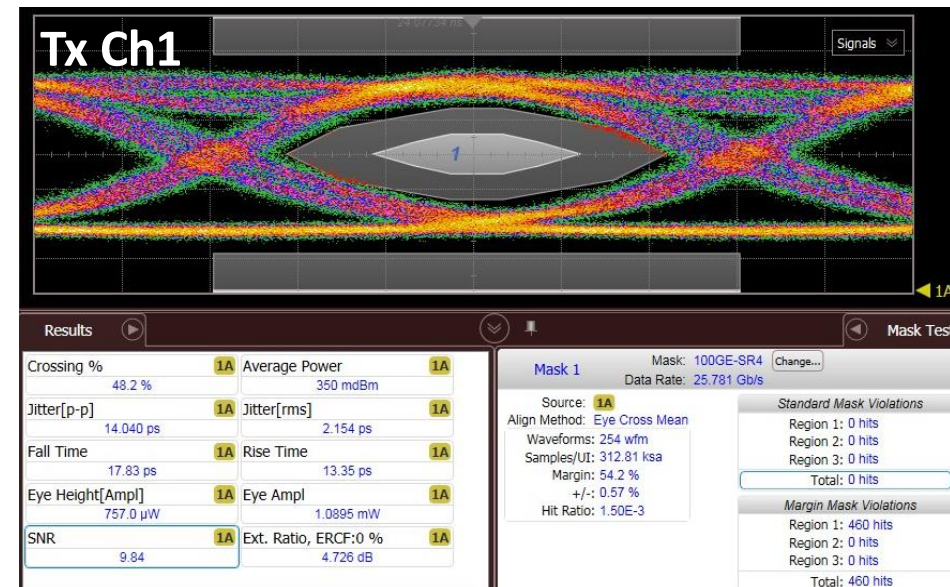
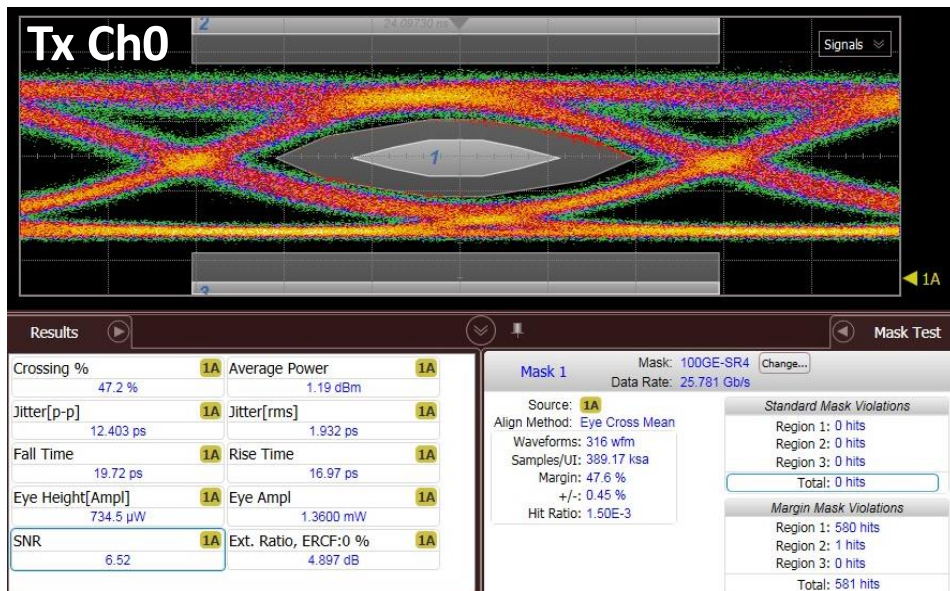


Sample Unit SN RG4870850003-A

Unit RG4870850003-A



Sample Unit SN RH0370850008-A



Conclusion and Recommendation

- 100 GbE interoperability demonstrated at ECOC-16
- 2 vendor's modules over 100 m OM4 fiber
- Do not ignore the applications for duplex fiber (200G-SR1.4)

THANK YOU !