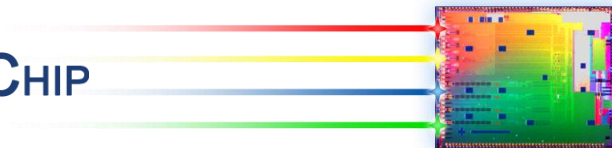


Silicon Photonics PSM4 Chipset Transmitter Measurements

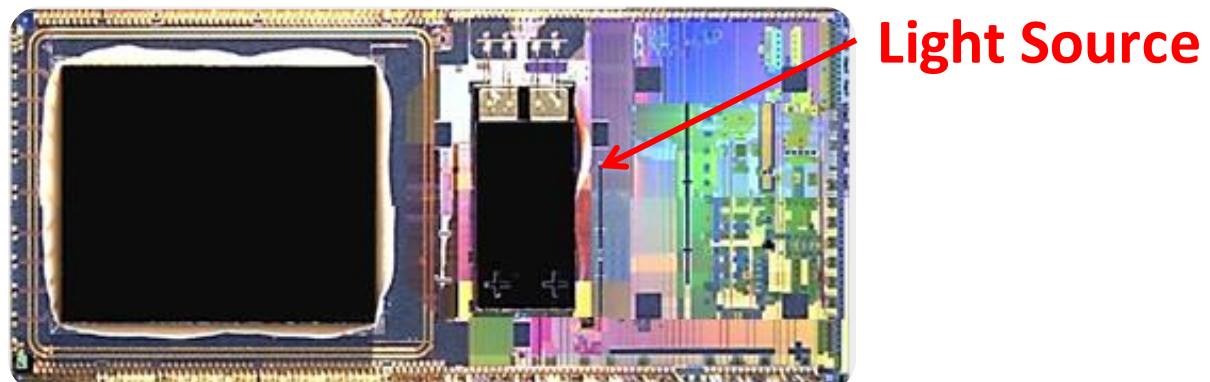
Brian Welch

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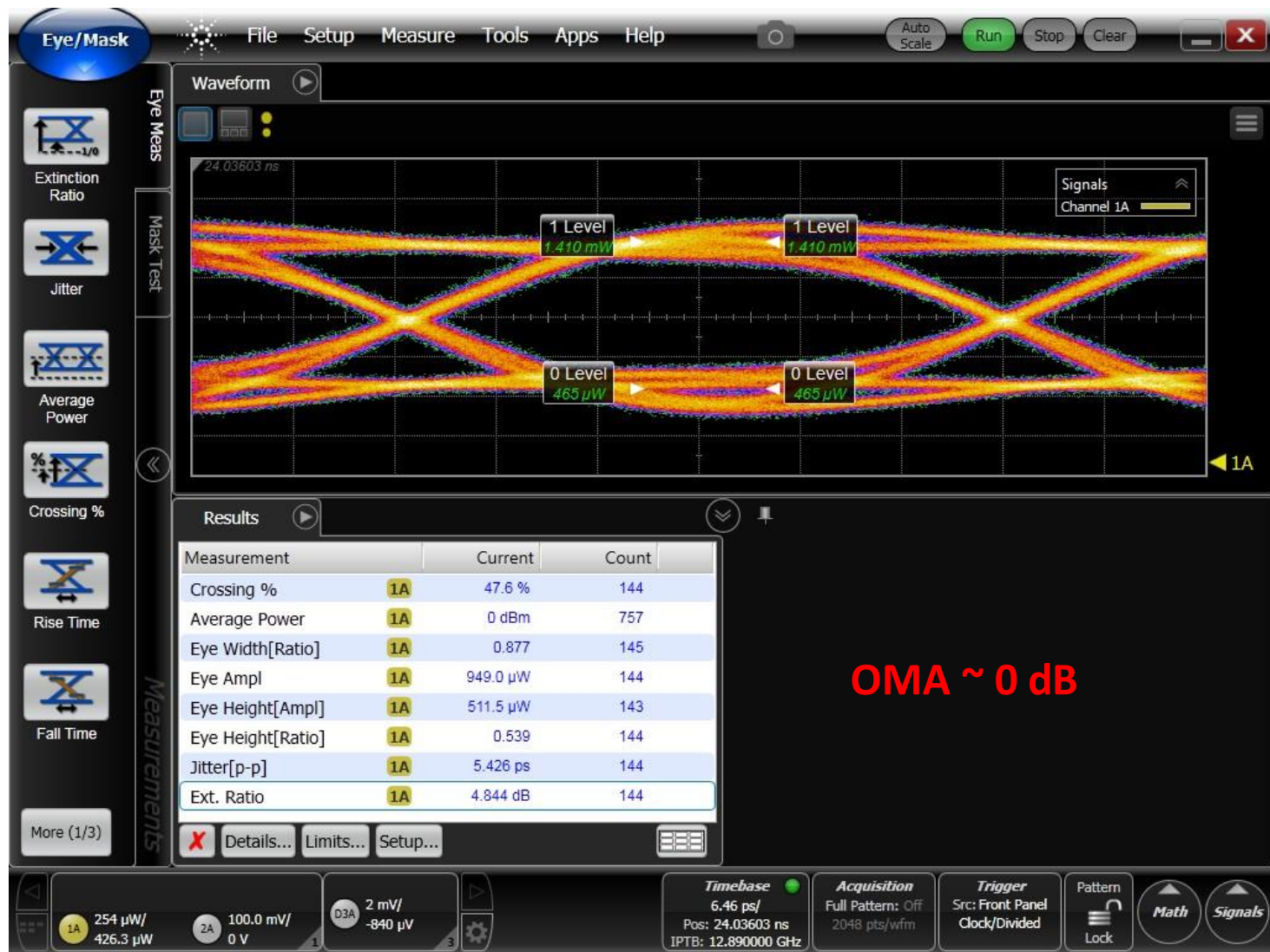
Silicon Photonics PSM4 Chipset Transmitter Measurements

- There have been questions as to achievable OMA levels in Silicon Photonics Solutions
- Enclosed are measurements of a PSM4 chipset with four transmitters illuminated from a single light source
- OMA > -0.5 in all cases

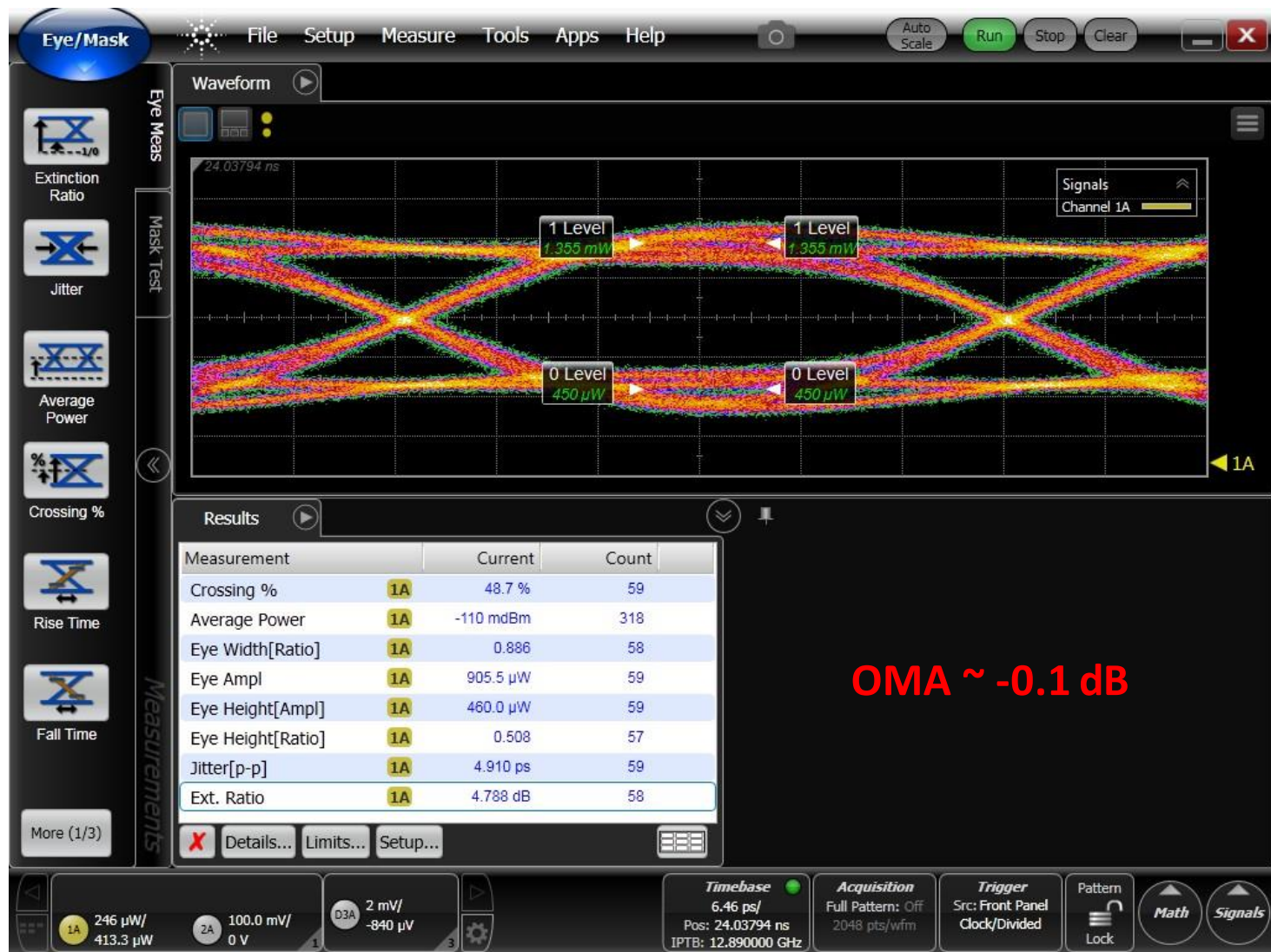


4x25 Gbps PSM4 Chipset

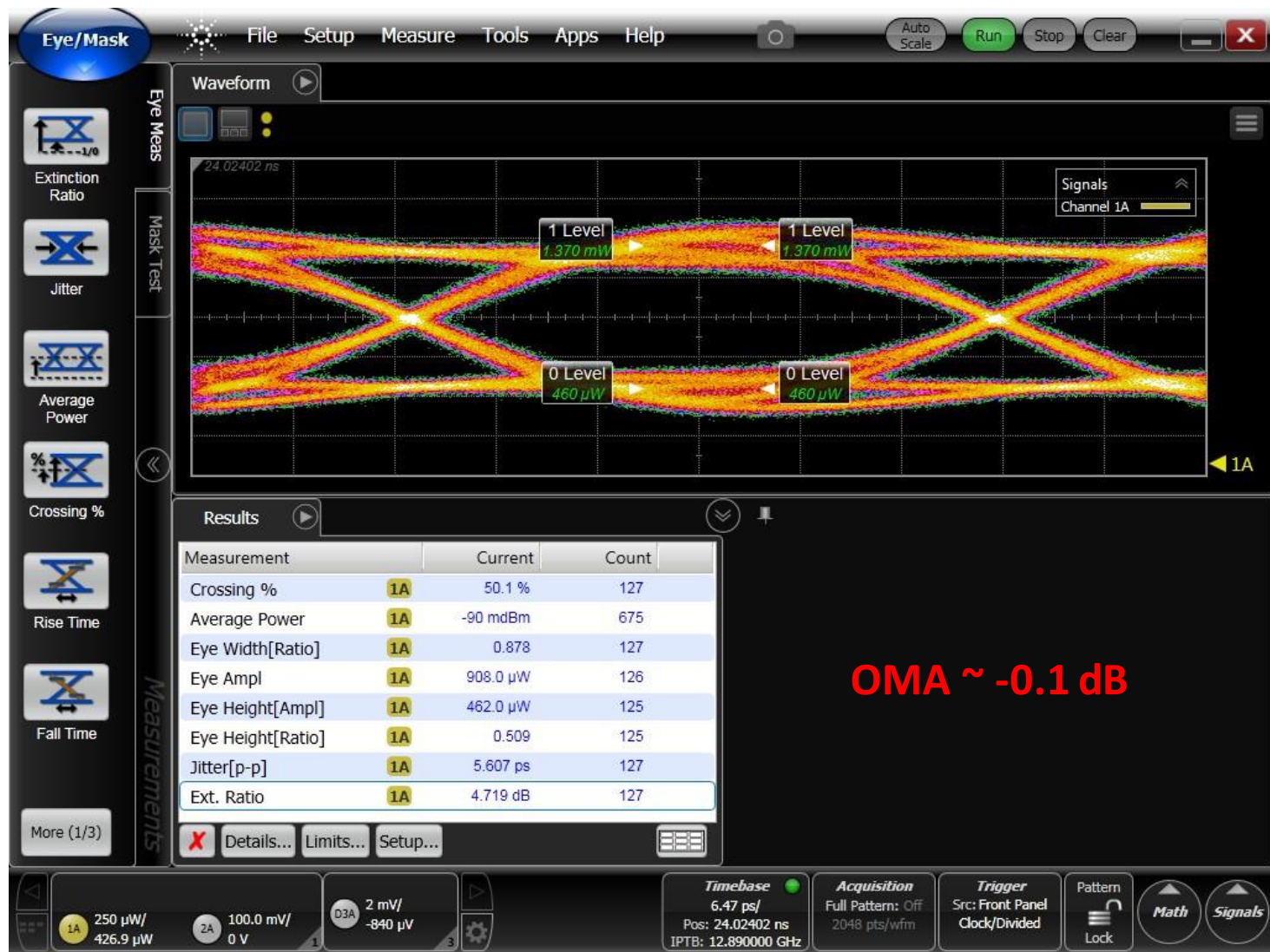
TX OMA - Channel 0



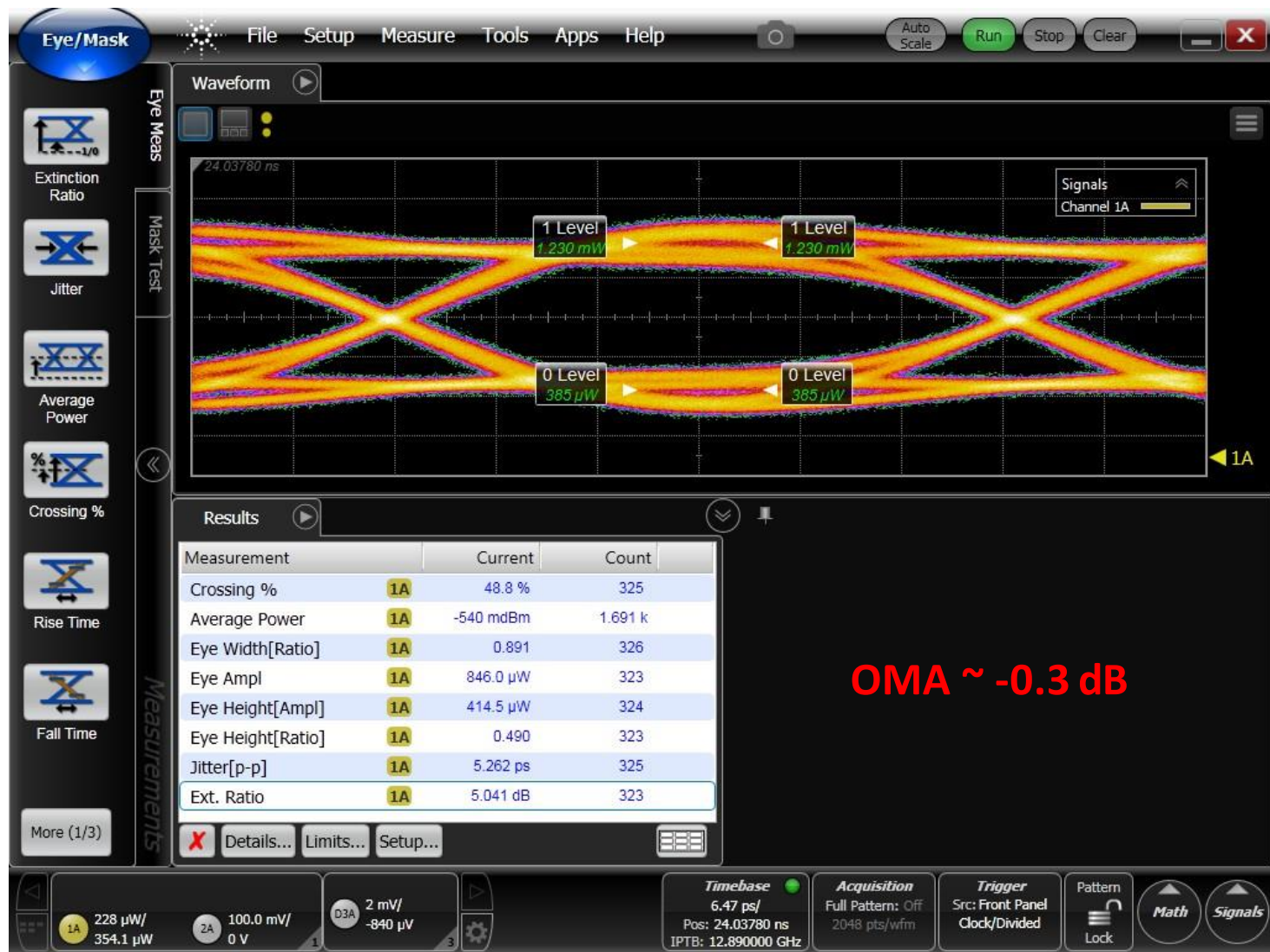
TX OMA - Channel 1



TX OMA - Channel 2



TX OMA - Channel 3



- OMA values > -0.5 dBm are attainable in PSM4 systems
 - Based on a single light source
- Solutions without laser splitting can achieve higher transmitter OMA values
 - At least 6 dB higher OMA values available for WDM solutions, using 1 light source per lane
 - No 4x laser splitting
 - Pre MUX value
 - Assuming 2dB MUX loss, allows for a WDM transmitter OMA of approximately 3.5 dB per channel

Thank You

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