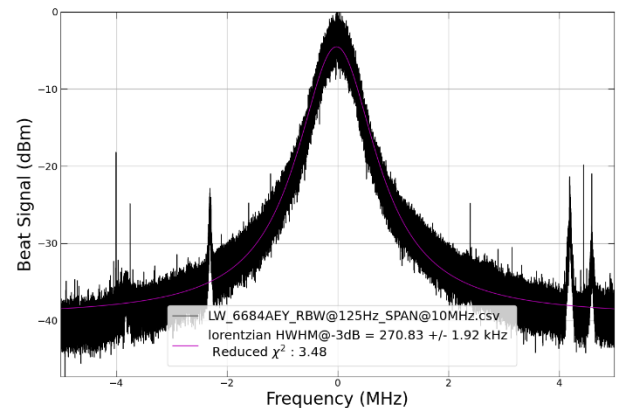
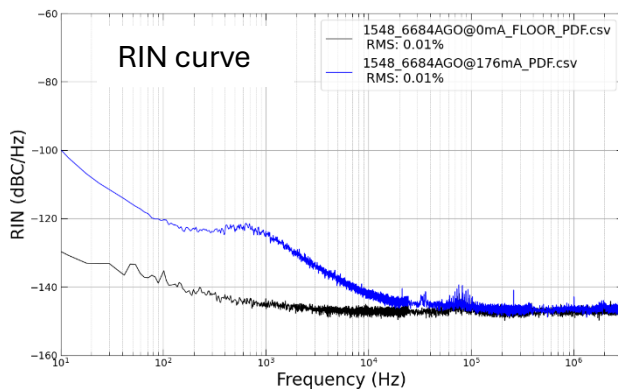
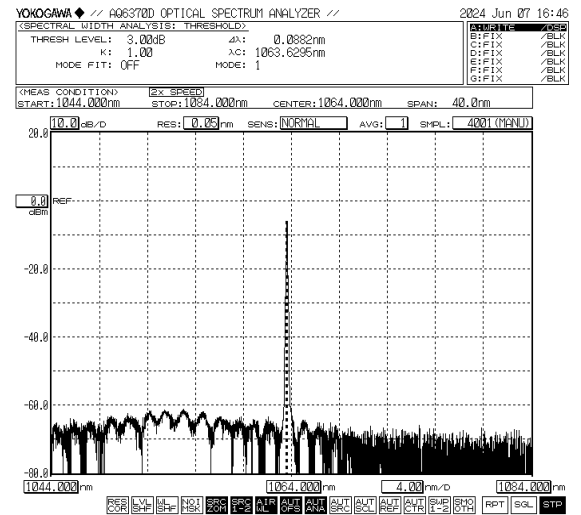
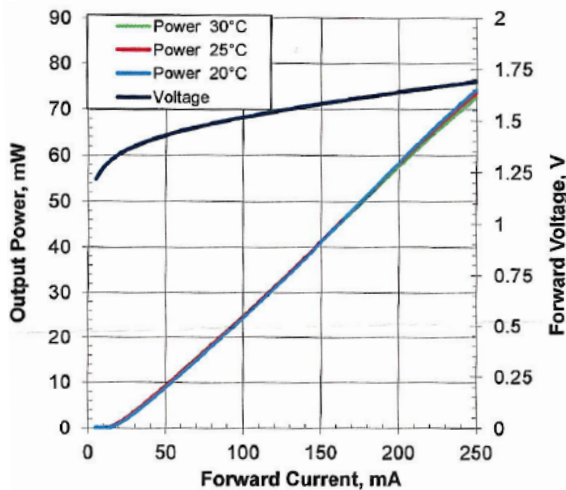


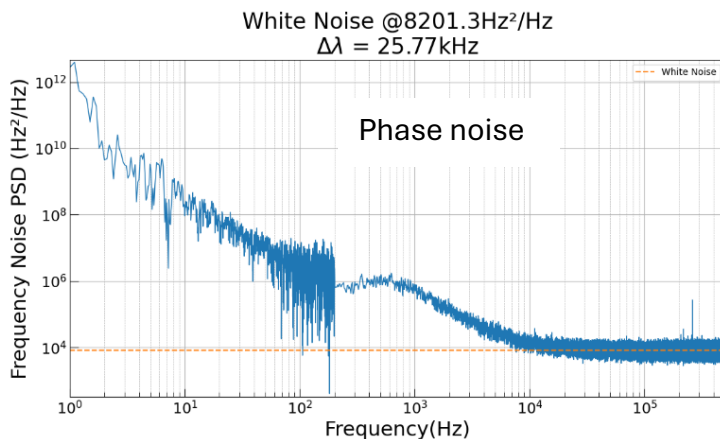
1053 nm laser diode

DFB / Butterfly package

Linewidth : 25 kHz (Phase noise) / 270 kHz (Self heterodyne)



^ Beat Signal obtained from Self-Heterodyne measurements with 12 km delay fiber



Lorentzian fit :

$$\frac{A}{1 + \left(\frac{f - f_0}{\frac{\Delta\lambda}{2}} \right)^2} + offset$$

Important note: The self-heterodyne linewidth measurements were obtained with our optimized experimental setup. It is probable that the linewidth we measured is still limited by the overall noise of our non-ideal setup. We estimate an even narrower real linewidth for this diode, given at approx. 25 kHz through frequency noise measurement.