

Tested by: SM
Inspected by: RS

Date: March 18th, 2025

Summary of Test Data

Parameter*	Value	Unit
Operating Current	635	mA
Center Wavelength	1309.83	nm
Output Power	111	mW
Linewidth	121	Hz
Side Mode Suppression Ratio (SMSR) at Operating Current	68	dB

* Measurement conditions: Laser chip temperature at 25°C and FBG temperature at 30°C.

Output fiber: PM1550 with FC/APC connector. Laser shipped with default operating current at 635mA.

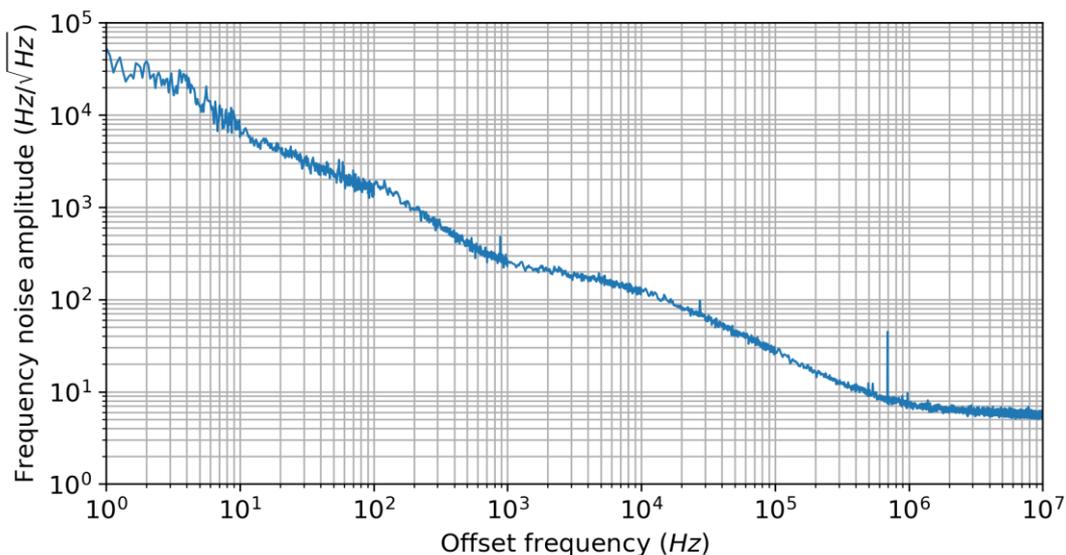


Figure 1 Laser output frequency noise at 635mA pump current. Measured with OE wave 4000 noise analyzer.

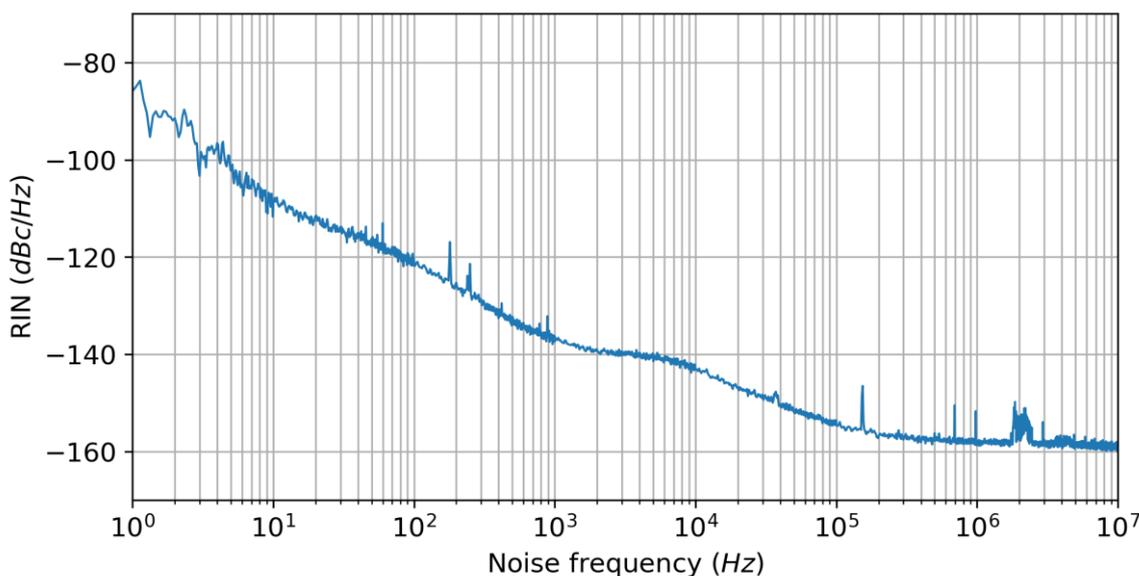


Figure 2 Laser relative intensity noise at 635mA pump current. Measured with OE wave 4000 noise analyzer.

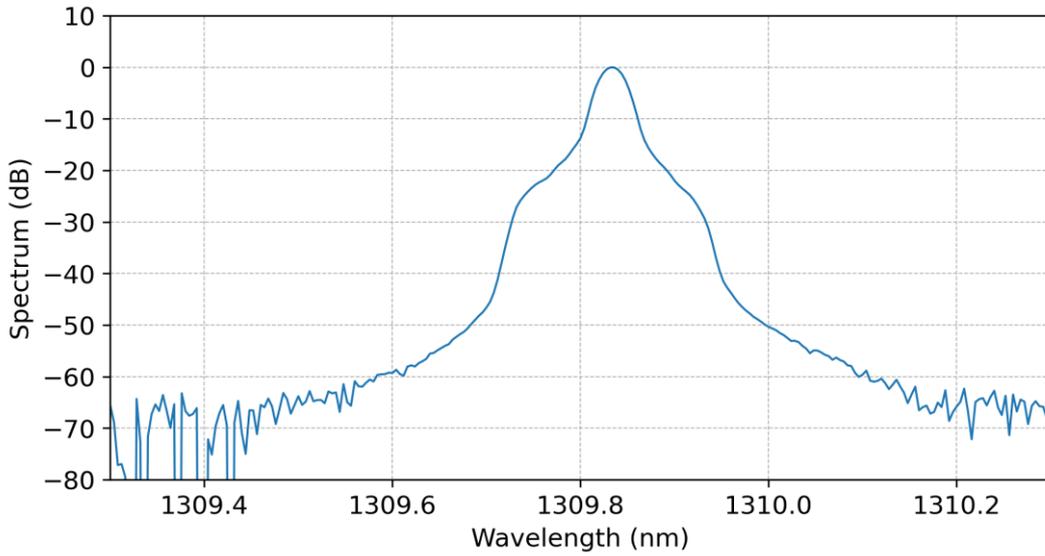


Figure 3 Laser output spectrum at 635mA pump current, measured with Yokogawa AQ6370D OSA, limited by OSA resolution bandwidth 0.02nm.

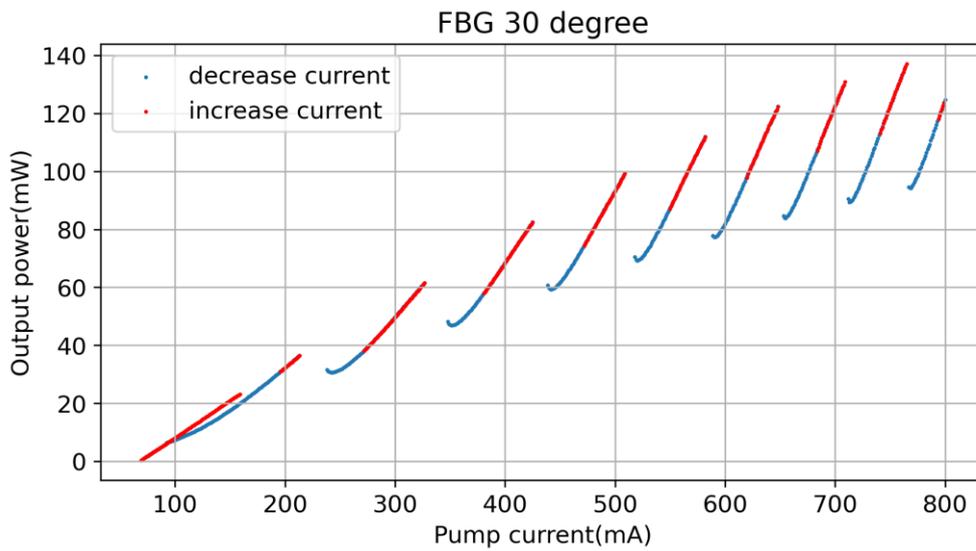


Figure 4 Output power for single-mode only regions, FBG temperate at 30°C.

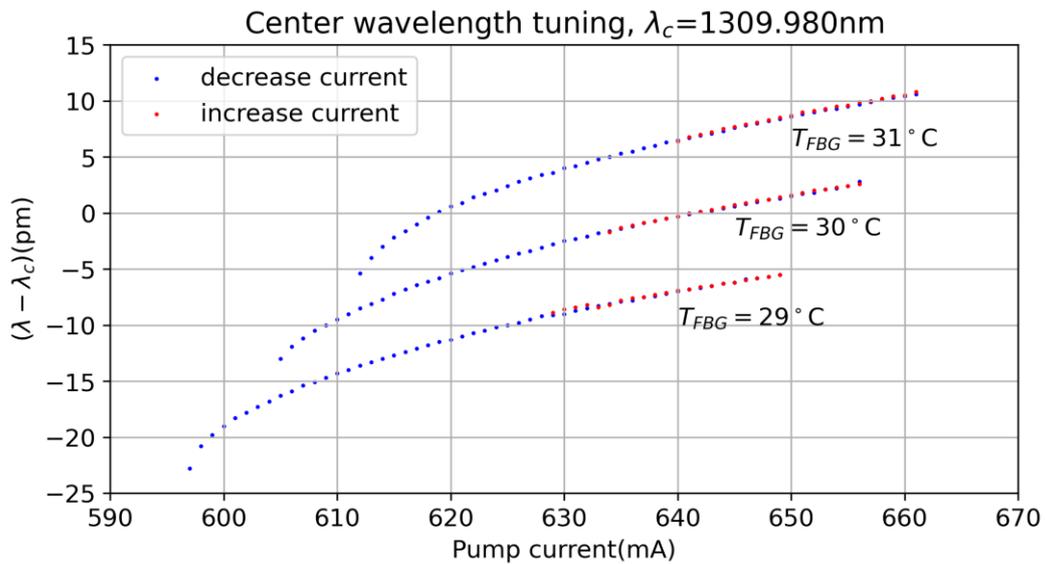


Figure 5 Center wavelength tuning with pump current and FBG temperature, device is factory set to 635mA, 30°C FBG temperature. (Any discontinuity in the central wavelength plot is an artifact of OSA resolution limitations)