Product Test Sheet

Product Name:ASE Broadband Light Source
Product Code: ASE-C-NG-20-SM-M
Serial Number: 25051204

	Unit	Specification	Remarks
Optical Parameter			
Operating Wavelength	nm	1527~1566	C-band
Output Power	mW	20	
Spectrum width	nm	40.4	@7dB
Output Power Stability	-	P-P: ±0.31% RMS: 0.20%	@20mW, over 60min
Fiber Type	-	SMF-28e Single Mode Fiber, Φ0.9mm×1m	
Fiber Connector	-	FC/APC	
Environment and Electrical Parameters			
Control Function		Software	
Remote Control Port		ZH1.5-3Pin to DB9-RS232	
Software Version		Laser Controller ASE V20220401	
Operation Temperature Range	℃	-5 to +45	
Storage Temperature Range	℃	-10 to +70	
Dimensions	mm	90(W)×70(D)×15(H)	Module
Power Supply	V	DC 5V	E.U Standard

Note: ISO 11554-2017

8 Evaluation

8.1 General

The standard deviation, s, from n readings m_i is calculated according to

$$s=\sqrt{\frac{\sum_{i=1}^{n}(m_i-\bar{m})^2}{n-1}} \quad (3)$$

Where the mean value is

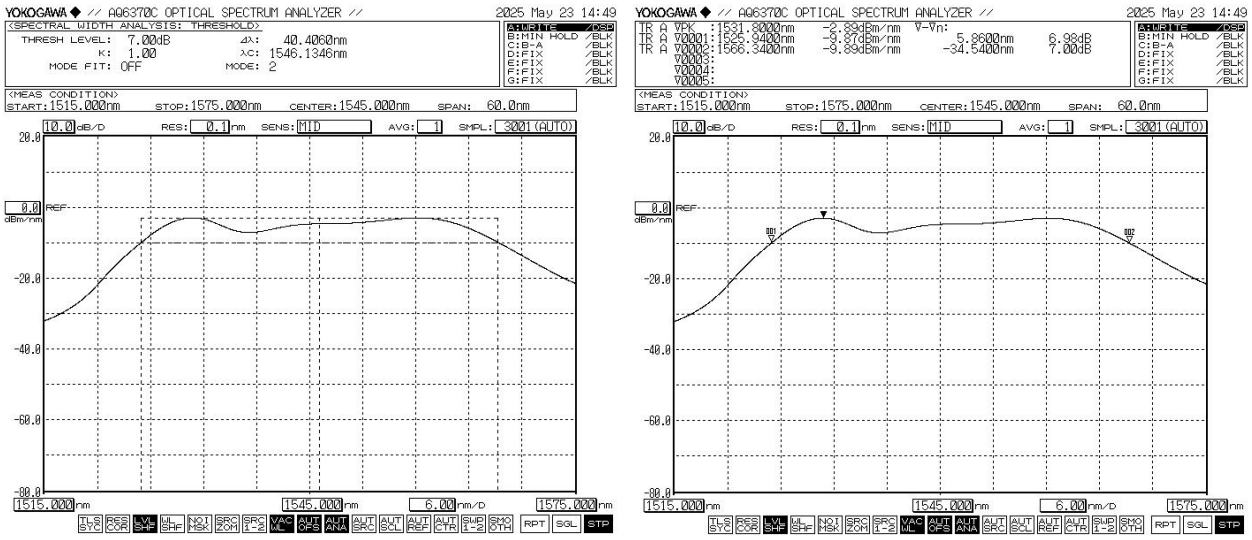
$$\bar{m}=\frac{\sum_{i=1}^{n}m_i}{n} \quad (4)$$

8.3 Power stability of cw lasers

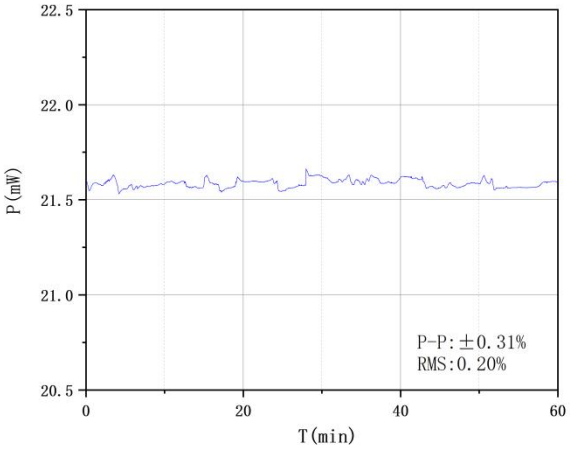
Calculate the mean value of the power, $\bar{P}$, and the respective standard deviation, s, for the appropriate stability time domain (short-term, medium-short-term, medium-term and long-term) according to the specifications given in 7.3.

Power stability is given as the relative power fluctuation, ΔP, in the corresponding stability time domain calculated from Formula (9):

$$\Delta P=\frac{2s}{\bar{P}} \quad (9)$$



Optical Spectrum @20mW Output Power



Power Stability @20mW Output Power

Passed By:_____ Date: 2025-05-23