

Tunable XFP Measurement Application

MS9740A

Optical Spectrum Analyzer

Tunable XFP modules have become the focus of recent interest due to their size, cost, power consumption, and usability considerations. They are expected to become very important transceiver devices in future optical communications.

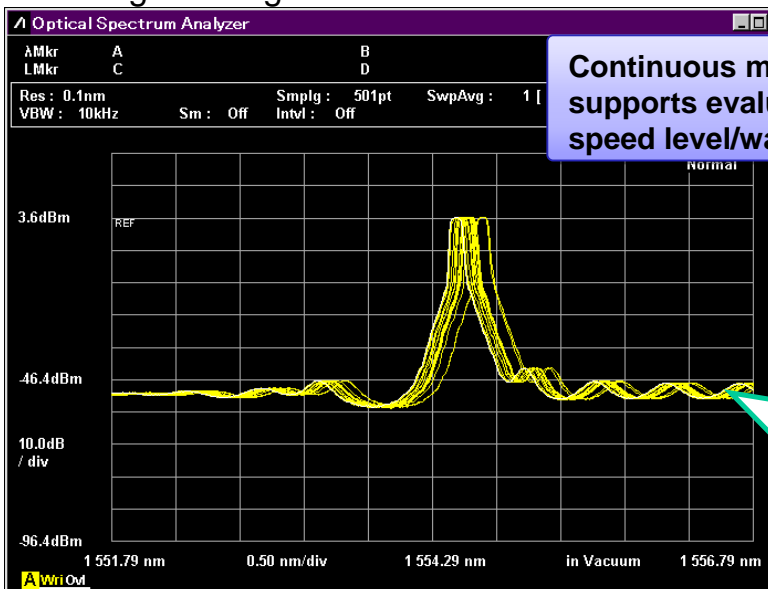
Conventional fixed-wavelength transceiver modules require one measurement for each parameter (SMSR, level, wavelength, spectrum width, etc.) and measurement speed is a critical factor for tunable modules requiring measurements at many wavelengths.

Anritsu's high-speed and high-accuracy MS9740A is an excellent solution for evaluating tunable modules.



■ For Evaluating Level and Waveform Changes

✓The nearly real-time waveform display is excellent for adjusting levels and evaluating wavelength changes.



Continuous measurement sweeping in <200 ms supports evaluation and measurement of high-speed level/wavelength changes

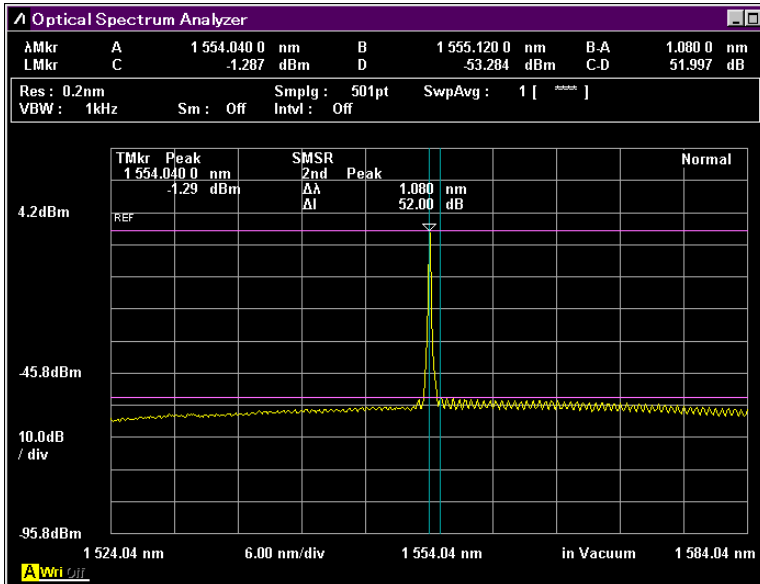
The Overlap function makes it easy to monitor variations every few seconds in the spectrum. The MS9740A is perfect for monitoring short-term spectrum changes.

*VBW10 kHz, 501 points and Overlap function

High Speed and High Accuracy

✓High-accuracy measurements of >50 dB SMSR take just a few ms.

✓Wavelength accuracy in the C and L bands is ± 20 pm and standards are assured over a wide temperature range of 5° to 30° C*1.

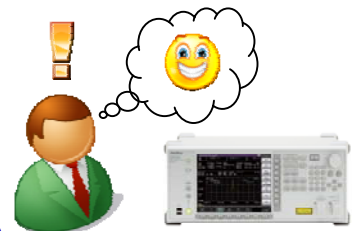
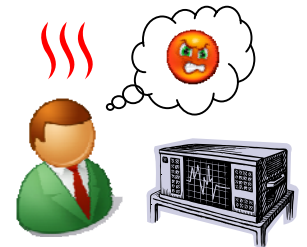
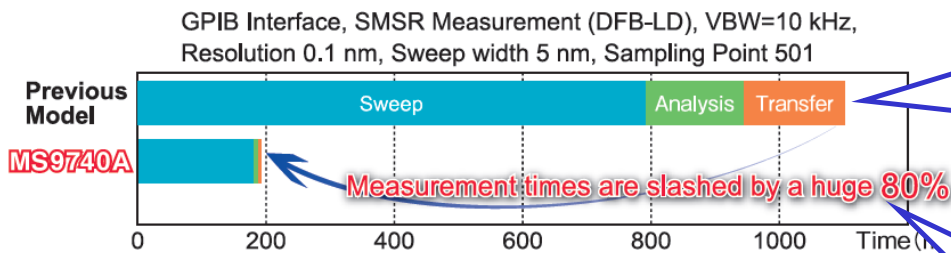


Measures optical transceivers with 0 dBm output, and 50 dB SMSR in $\lt; 1 \text{ s}^{\ast 2}$. The performance parameters of a module can be measured quickly for each wavelength in the grid.

*1: After calibration with optical source for calibration at fixed temperature

*2: VBW 1 kHz, Span 60 nm, 1001 points

Better Efficiency and Productivity



At least 5 times faster measurement per waveform and three times faster evaluation of tunable modules with 80 waveforms than our earlier models saves time and money.