

INFORMATION ONLY – DOES NOT COMMUNICATE  
A MODIFICATION OR SAFETY CONDITION

**SP50-01**

**S E R V I C E N O T E**

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Supersedes:  
N5090A001-01

## Agilent SP50 Optical Board Test System

**Serial Numbers: All**

**The Class 3B Laser used on the SP50 system could emit full power in maintenance mode if a single fault condition occurs.**

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
NONE		

### ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

**INFORMATION ONLY**

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ADDITIONAL INFORMATION:

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**Situation:**

During the course of the safety checks on the Class 3B Laser used on the SP50 system. An issue was discovered. Firstly let us state that during normal operation the machine satisfies the required regulatory requirements. The problem with the system can only occur when in Maintenance mode. After destructive tests were performed on the electronics box which houses the laser controls, and reduces the laser output to class 2 (CDRH Standard) in this mode. That if a single fault condition occurs the laser could emit full power, which is a Class 3B laser light.

**ACTION REQUIRED:**

Due to this we would recommend the following precautions while calibrating the laser line.

- 1: Safety goggles must be worn when the Technician or Engineer carries out this task. Type **LG-02 Filter 22** glasses should only be used (For more details see the following web page <http://www.safetyglassesusa.com/lasprot.html> )
- 2: Unprotected personnel during calibration must stay more than 0.5m away from the laser while this task is performed.

**SOLUTION:**

To rectify this Agilent Technologies, IIO propose to change the laser on each machine to a new type that will not give full power output in single fault condition and will satisfy class 2 IEC and CDRH Standards during maintenance mode.