

Assessment Notes by BABT as TCB for a Class II Permissive Change to the Symbol Technologies Inc H9P2164381.

For Symbol Technologies Inc. under FCC ID number H9P2164381

BABT file number US/000070

I have reviewed the BABT/TÜV-PS SAR test report WS612336-001 issue 001 in respect of the above product in conjunction with the latest RF Test report OR612336/02 Issue 1 and I have the following comments:

The expanded measurement uncertainty is shown on page 13 of the SAR report at 22.32%, which is acceptable for this kind of measurement. The head and body simulant fluids were correctly calibrated within 5% of the target values and the measurements were taken within 100MHz of the calibrated frequency of the fluids.

Important note to FCC reviewer:

The device is a Bluetooth™ module for use in a Laser scanner that has Bluetooth™ connectivity. The scanner is intended to be normally hand-held and used for data entry applications. This permissive change therefore constitutes a new host for the module, which is already approved under FCC Grant H9P2164381. A new antenna is introduced under this permissive change, which has a gain of 2.5dBi, and details of this antenna are included with this filing.

The worst-case SAR value for body worn normal General Population uncontrolled exposure use in an appropriate hand-held scanner are summarised below.

Summary of highest measured SAR Values:

Band	Position	Channel	Frequency (MHz)	Max Spot SAR (W/kg)	1g SAR (W/kg)	SAR drift dB	Area Scan (Figure #)
Bluetooth™	Unit top facing phantom at 2mm spacing	40	2442	0.36	0.253	-0.05	Figure 22
Limit for General Population (uncontrolled exposure) 1.6 W/kg (1g)							

Justification:

The maximum EIRP of the device is 13.1 dBm at 2402 MHz and this is consistent (within reasonable measurement error for this kind of measurement) with the value measured in the radio report of 14.6 dBm. It is viewed that this device **DOES MEET** the RF exposure requirements and that no additional restriction need to be imposed on the Grant for this device.

I confirm that I have undergone SAR awareness training by the FCC at the TCB Council workshops in August 2001, February 2002, April 2002, October 2002 and May 2004.



Alan Binks
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3rd October 2004