



Pirelli Tyre S.p.A.

## RF Exposure Analysis – SAR Test Exemption – PSN2-09S

### **FCC ID: 2ANX7CPSN2**

The PSN2-09S utilises a Bluetooth LE transceiver that operates in the 2402 MHz to 2480 MHz frequency band.

### **The following FCC Rule Parts and Procedures are applicable:**

KDB447498 D04 V01 – Interim General RF Exposure Guidance

Part 1.1307(b)(3)(i)(A) - Blanket RF exposure exemption (i)

Part 1.1307(b)(3)(i)(C) - SAR test exemption (ii)

Part 1.1307(b)(3)(i)(B) - SAR test exemption (iii)

### **For the PSN2-09S**

Operating Frequencies: 2402 MHz to 2480 MHz

Declared Maximum Conducted Transmitter Output Peak Power: 7.0 dBm (5 mW)  
(including Tune Up tolerance)

Maximum (worst-case) Duty Cycle: 7.5%

Source-based, time-averaged Conducted Transmitter Output Power: -4.2 dBm (**0.38 mW**)

Antenna System Gain: -6.0 dBi

Source-based, time-averaged Transmitter EIRP = -10.2 dBm (0.1 mW)

*As the conducted transmitter output power is higher than the calculated EIRP this figure is compared to the specified exemption limits of Part 1.1307*

### **Evaluation**

From Part 1.1307, RF exposure exemption applies if the maximum transmitted power is less than the maximum of the following three criteria:

- i. Less than 1 mw Blanket exemption.  $P_{TH} = 0.001 \text{ W}$  – §1.1307(b)(3)(i)(A)
- ii. determination of exemption under the MPE-based §1.1307(b)(3)(i)(C), if i) not met
- iii. determination of exemption under the SAR-based §1.1307(b)(3)(i)(B) if both i) and ii) are not met;

### **Conclusion**

The PSN2-09S maximum source-based time-averaged conducted transmitter output power is less than 1 mW and, therefore, complies with the RF exposure blanket exemption in accordance with §1.1307(b)(3)(i)(A).