## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a NSW Wireless Controller with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery or DC 5V by USB port. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK, π/4-DQPSK and 8-DPSK

Antenna Gain: 0dBi Max

The normal radiated output power (e.i.r.p) is: -14.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -14.0dBm (tolerance: +/- 3dB).

## According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $81.3\,dB\mu V/m$  at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D) ^2 / 30] \text{ mW} = -13.93 \text{dBm}$  which is within the production variation.

The Minimum peak radiated emission for the EUT is  $80.0 dB\mu V/m$  at 3m in the frequency 2402MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -15.23dBm which is within the production variation.

The maximum conducted output power specified is -11.0dBm=0.079mW The source- based time-averaging conducted output power =0.079\* Duty cycle mW <0.079 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.480) mW
- = 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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