

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Network connection device with Bluetooth function. The EUT was powered by 3V 230mA CR2032 button battery. For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Bluetooth Version: 4.1 BLE Mode

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: 1dBm (+/-5dB).

The nominal radiated output power (e.i.r.p) specified: 1dBm (+/- 5dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 94.1 dB $\mu$ V/m at 3m in the frequency 2402MHz.

The EIRP = [(FS\*D) ^2 / 30] mW = -1.13dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.9dB $\mu$ V/m at 3m in the frequency 2480MHz.

The EIRP = [(FS\*D) ^2 / 30] mW = -3.33dBm  
which is within the production variation.

The maximum conducted output power specified is 6.0dBm = 3.98mW

The source- based time-averaging conducted output power

= 3.98 \* Duty factor mW (where Duty Factor  $\leq 1$ )

= 3.98 mW

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.