

# INTERTEK TESTING SERVICES

---

## 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 dBμV/m at 3m in the frequency 2402MHz.

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

The minimum peak radiated emission for the EUT is 91.9dBμV/m at 3m in the frequency 2480MHz.

The EIRP =  $[(FS \cdot D)^2 / 30]$  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:

=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$   
=  $3.0 \cdot 5 / \sqrt{2.480}$  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.