

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Sleep Therapy Sound Soother Bedtime Light with BT5.0 (Dual Mode) function operating in 2402-2480MHz, The EUT is powered by DC 5V/1A. For more detail information pls. refer to the user manual.

Bluetooth Version: 5.0 (Dual Mode)

Modulation Type: GFSK,  $\pi/4$ -DQPSK and 8-DPSK

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

The nominal conducted output power specified: -4dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: -2dBm (+/- 3dB).

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 94.9dB $\mu$ V/m at 3m in the frequency 2402MHz (BLE mode)

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -0.33dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.2dB $\mu$ V/m at 3m in the frequency 2480MHz (EDR mode)

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -4.03dBm  
which is within the production variation.

The maximum conducted output power specified is -1dBm = 0.79 mW

The source-based time-averaging conducted output power

= 0.79 \* Duty factor mW (where Duty Factor  $\leq$  1)

= 0.79 mW

### **1-mW Test Exemption:**

Since the source-based time-averaging conducted output power is well below 1-mW Test Exemption, per 447498 and §1.1307(b)(3)(i)(A), the EUT is considered to comply with SAR requirement without testing and no evaluation is required.