## INTERTEK TESTING SERVICES

## **RF Exposure**

The Equipment Under Test (EUT) is a Bluetooth Speaker Cooler Bag Bluetooth 5.3 (BR/EDR Mode) function operating in 2402-2480MHz. The EUT is powered by DC3.7V rechargeable battery or DC 5V by USB input. The Key For more detailed features description, please refer to the user's manual.

Bluetooth Version: 5.3 BR/EDR

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

Antenna Type: Integral antenna.

Antenna Gain: -0.58dBi.

The nominal conducted output power specified: -5.92dBm (+/-3dB). The nominal radiated output power (e.i.r.p) specified: -6.5dBm (+/- 3dB).

## According to the KDB 447498V06:

The maximun peak radiated emission for the EUT is  $91.2dB\mu V/m$  at 3m in the frequency 2402MHz

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

The minimum peak radiated emission for the EUT is  $86.0 dB\mu V/m$  at 3m in the frequency 2480 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -9.23dBm which is within the production variation.

The maximun conducted output power specified is -2.92dBm = 0.51 mW The source- based time-averaging conducted output power

- = 0.51 \* Duty factor mW (where Duty Factor≤1)
- $= 0.51 \, \text{mW}$

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.

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