## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test is a Bluetooth headset with Bluetooth function and NFC function (Passive). The NFC function will enable the connection or disconnection of the Bluetooth communication by touching the headset to the NFC-enabled device. The EUT will play music from mobile phone, computer or other devices through Bluetooth function. The Bluetooth module is BT 4.0 of dual mode and downward compatible. It's operating in 2402-2480 MHz. The EUT is designed to be powered by a DC 3.7 V internal rechargeable battery which can be charged by USB source or AC/DC adapter with DC 5V output. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 2dBi.

The nominal conducted output power specified: 0dBm (+/-3dB)

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

Modulation Type: GFSK

According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $92.4dB\mu V/m$  at 3m in the frequency 2440MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -2.8dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $90.4dB\mu V/m$  at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -4.8dBm which is within the production variation.

The maximun conducted output power specified is 3dBm = 2.0mW The source- based time-averaging conducted output power = 2.0 \* Duty Cycle mW ≤2.0 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.

This requirement is according to KDB 865664 D02

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