## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Bluetooth headset with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.7V from rechargeable battery which can be charged by USB port. For more detail information pls. refer to the user manual.

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

Bluetooth Version: 4.1(without BLE) Antenna Type: Integral antenna

Antenna Gain: 0 dBi Max

The nominal radiated output power (e.i.r.p) specified: -1dBm (Tolerance: +/- 3dB) The nominal conducted output power specified: -1dBm (Tolerance: +/- 3dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is 96.9 dBµV/m at 3m in the frequency 2441MHz of BT 4.1

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 1.7 dBm which is within the production variation.

The minimum peak radiated emission for the EUT is 96.6 dB $\mu$ V/m at 3m in the frequency 2480MHz of BT 4.1

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 1.4 dBm which is within the production variation.

The maximun conducted output power specified is 2dBm = 1.585 mW The source- based time-averaging conducted output power

- = 1.585 \* Duty factor mW (where Duty Factor ≤1)
- $= 1.585 \, \text{mW}$

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.

FCC ID: ZS3-P30A