## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a True Wireless Earbuds with Bluetooth 5.3 EDR function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. Once the earbuds are plugged in the charging case, the earbuds automatically shut down, the Bluetooth function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK, p/4-DQPSK, 8DPSK

Antenna Gain: 3.0dBi Max

The nominal radiated output power (e.i.r.p) specified: 4.0dBm (+/-4dB) The nominal conducted output power specified: 1.0 dBm (+/-4dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is 102.3  $dB\mu V/m$  at 3m in the frequency 2402MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 7.07dBm 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

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 1.37dBm which is within the production variation.

The maximun conducted output power specified is 5.0dBm = 3.16 mW

The source- based time-averaging conducted output power

- = 3.16 \* Duty factor mW (where Duty Factor≤1)
- = 3.16 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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