## **INTERTEK TESTING SERVICES**

## **RF Exposure**

The equipment under test (EUT) is a Wireless Headphones With Noise Cancellation with Bluetooth 5.3(Dual Mode) function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. For more detail information pls. refer to the user manual.

Bluetooth Version: 5.3 (Dual Mode) Antenna Type: Integral antenna

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

Antenna Gain: -0.68dBi Max

The nominal radiated output power (e.i.r.p) specified: -2.68 dBm (+/-4dB)

The nominal conducted output power specified: -2.0 dBm (+/-4dB)

According to the KDB 447498 V07:

The maximun peak radiated emission for the EUT is 96.1 dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 0.87dBm which is within the production variation.

The minimum peak radiated emission for the EUT is 91.3 dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -3.93dBm which is within the production variation.

The maximum conducted output power specified is 2.0 dBm = 1.585 mWThe maximum ERP specified is 2.0 dBm - 2.15 dB - 0.68 dBi = -0.83 dBm = 0.826 mW

The SAR Exclusion Threshold Level:

$$P_{\text{th}}(\text{mW}) = \text{ERP}_{20\text{cm}} * (d/20\text{cm})^{\chi}$$
 (X=  $-\log_{10} \left(\frac{60}{\text{ERP}_{20} \text{ cm}\sqrt{f}}\right)$  )
$$= 3060 * (0.5/20)^{1.9} \text{ mW}$$

$$= 2.72 \text{ mW}$$

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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