

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a BLUETOOTH ANC HEADPHONES with Bluetooth function. The EUT was powered by the fully-charged DC 3.7V, 600mAh new rechargeable battery which was charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

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

Bluetooth Version: 4.0 and 3.0, 2.1 with EDR and without BLE mode.

Antenna Type: Integral antenna.

Antenna Gain: 2.0dBi max.

The nominal conducted output power specified: -3.0dBm +/-3dB.

The nominal radiated output power (e.i.r.p) specified: -1.0dBm (+/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 93.4dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -1.83dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.8dB $\mu$ V/m at 3m in the frequency 2441MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -3.43dBm  
which is within the production variation.

The maximum conducted output power specified is 0dBm = 1.0mW

The source-based time-averaging conducted output power  
= 1.0 \* Duty factor mW (where Duty Factor  $\leq$  1)  
= 1.0 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.