

# INTERTEK TESTING SERVICES

---

## RF Exposure

The equipment under test (EUT) is a ONN WIRELESS ON-EAR HEADPHONE with BT 5.0 EDR function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. The Bluetooth function cannot operate when charging. For more detail information pls. refer to the user manual.

Modulation Type: GFSK,  $\pi/4$ -DQPSK and 8-DPSK  
Bluetooth Version: 5.0 (Single Mode EDR)

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: -8dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: -8dBm (+/- 3dB).

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 87.38dB $\mu$ V/m at 3m in the frequency 2479.875MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -7.85dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 84.94dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -10.29dBm  
which is within the production variation.

The maximum conducted output power specified is -5dBm = 0.3mW

The source-based time-averaging conducted output power  
= 0.3 \* Duty factor mW (where Duty Factor  $\leq$  1)  
= 0.3 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.