

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Dongle for wireless Gaming Headset with EDR operating in 2402-2480MHz. The EUT is powered by DC 5V. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Antenna Gain: 1.05 dBi max (This information is provided by applicant, and the applicant is responsible for the authenticity of the provided information.)

Bluetooth Version: 5.3 EDR (Single Mode)

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

The nominal conducted output power specified: 2.95dBm (+/-2dB).

The nominal radiated output power (e.i.r.p) specified: 4dBm (+/- 2dB).

According to the KDB 447498 V06:

The maximum peak radiated emission for the EUT is 100.2dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 4.97dBm  
which is within the production variation.

The minimum peak radiated emission for the EUT is 99.4dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 4.17dBm  
which is within the production variation.

The maximum radiated output power specified is 6dBm = 3.981 mW

The source- based time-averaging conducted output power  
= 3.981 \* Duty factor mW (where Duty Factor  $\leq 1$ )  
= 3.981 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.