

INTERTEK TESTING SERVICES

RF Exposure

The Equipment Under Test (EUT) is an onn Wireless Gaming Headset with EDR operating in 2402-2480MHz. The EUT is powered by DC 5V/500mA. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Antenna Gain: 3.49 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: 0.51dBm (+/-2dB).

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

According to the KDB 447498 V06:

The maximun peak radiated emission for the EUT is 100.4dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 5.17dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 99.8dB μ V/m at 3m in the frequency 2441MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 4.57dBm
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 ≤ 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.