

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a VIDEO GAMING CHAIR with Bluetooth 3.0+EDR operating 2402-2480MHz. The EUT is powered by AC/DC adaptor (Input AC 100-240V, 50/60Hz, 0.5A; Output DC12V, 1000mA). For more detailed features description, please refer to the user's manual.

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

Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal radiated output power (e.i.r.p) specified: 0dBm (Tolerance: +/-3dB)

The nominal conducted output power specified: 0dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 97.0dB μ V/m at 3m in the frequency 2.441GHz = $[(FS \cdot D)^2 / 30]$ mW
= 1.8dBm which is within the production variation

The minimum radiated emission for the EUT is 96.1dB μ V/m for at 3m in the frequency 2.480GHz = $[(FS \cdot D)^2 / 30]$ mW
= 0.9dBm which is within the production variation.

The maximum conducted output power specified is 3dBm = 2.0mW

The source-based time-averaging conducted output power
= 2.0 * Duty cycle mW \leq 2.0 mW (Duty Cycle \leq 100%)

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt(2.480) mW
= 9.5 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.