

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a VR Drone with 2.4GHz wireless control function operating in 2404-2480MHz. The EUT is powered by DC 6V (*AA* batteries x 4). For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal radiated output power (e.i.r.p) specified: 4dBm (Tolerance: +/-3dB)

The nominal conducted output power specified: 4dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 99.5dB μ V/m at 3m in the frequency 2.442GHz = $[(FS \cdot D)^2 / 30]$ mW
= 4.3dBm which is within the production variation

The minimum radiated emission for the EUT is 99.0dB μ V/m for at 3m in the frequency 2.404GHz = $[(FS \cdot D)^2 / 30]$ mW
= 3.8dBm which is within the production variation

The maximum conducted output power specified is 7dBm = 5.0mW

The source-based time-averaging conducted output power
= 5.0 * Duty cycle mW \leq 5.0 mW (Duty Cycle \leq 100%)

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / $\sqrt{\text{freq. in GHz}}$
= 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.