

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a 1:41 Formula Racing RC with track ~ Red Bull Racing RB20 operating at 2.4G Band. The EUT can be powered by DC 3.2V (1 x 3.2V rechargeable battery). Once use the USB cable charging to the EUT, the wireless function will be disabled. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -12.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -12.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 85.8dB μ V/m at 3m in the frequency 2408MHz

The EIRP = [(FS*D)^2 / 30] mW = -9.43dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 81.2.dB μ V/m at 3m in the frequency 2472MHz

The EIRP = [(FS*D)^2 / 30] mW = -14.03dBm
which is within the production variation.

The maximum conducted output power specified is -9dBm= 0.126mW

The source- based time-averaging conducted output power
=0.126mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.472) mW
= 9.54 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.

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