

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an RC Car operating at 2.4G Band. The EUT can be powered by DC 3.7V (1 x 3.7V rechargeable battery). And the RF function will be shut down and it can't transmit RF signals while charging. 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: -4.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -4.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498 V06:

The Maximum peak radiated emission for the EUT is 92.6dB μ V/m at 3m in the frequency 2420MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -2.63dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 89.8dB μ V/m at 3m in the frequency 2461MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = -5.43dBm
which is within the production variation.

The maximum conducted output power specified is -1.0dBm= 0.794mW

The source- based time-averaging conducted output power
=0.794mW

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$
= $3.0 * 5 / \sqrt{2.461}$ mW
= 9.56 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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