INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Flybar 12v Bumper Car operating at 2.4G Band. The EUT can be powered by DC 12.0V (2 x 6.0V 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: -14.0dBm (tolerance: +/- 3dB).

The normal conducted output power is -14.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 81.2dBµV/m at 3m in the frequency 2470MHz

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

The Minimum peak radiated emission for the EUT is 79.3dBµV/m at 3m in the frequency 2420MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -15.93dBm which is within the production variation.

The maximum conducted output power specified is -11.0dBm= 0.079mW

The source- based time-averaging conducted output power
=0.079mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.470) 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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