

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a transmitter for a Big Wheels operating at 27.145 MHz which is controlled by a crystal. The EUT is powered by two 1.5 V AA batteries. For more detail information pls. refer to the user manual.

Antenna Type: integral antenna

Antenna Gain: 0dBi

Modulation Type: Pulse modulation

The nominal conducted output power specified: -42.0dBm (+/- 3dB)

The nominal radiated output power (e.r.p) specified: -44.15dBm (+/- 3dB)

According to the KDB 447498 D04 v01:

The worst-case peak radiated emission for the EUT is 52.7dB_{UV}/m at 3m in the frequency 27.145MHz

The EIRP = [(FS*D) ^2 / 30] mW = -42.53dBm

The ERP = EIRP - 2.15 = -44.68dBm

which is within the production variation.

The maximum conducted output power specified is -39.0dBm = 0.00013mW

The source-based time-averaging conducted output power

=0.00013mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level of 1mW, so the EUT is considered to comply with SAR requirement without testing.

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