

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an Hercules™ Assortment (6 Wheeled Special Function); USB-C Rechargeable (12" / 30cm) operating at 2.4G Band. The EUT can be powered by DC 4.5V (3 x 1.5V AAA batteries). 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 101.7dB μ V/m at 3m in the frequency 2405MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = 6.47dBm
which is within the production variation.

The Minimum peak radiated emission for the EUT is 99.5 dB μ V/m at 3m in the frequency 2435MHz

The EIRP = $[(FS^*D)^2 / 30]$ mW = 4.27dBm
which is within the production variation.

The maximum conducted output power specified is 7.0dBm= 5.012mW

The source- based time-averaging conducted output power
=5.012mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.475) mW
= 9.53 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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