

# INTERTEK TESTING SERVICES

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## RF Exposure

The equipment under test (EUT) is a Rhythm Folding Electric Scooter with Bluetooth 5.2 (Single Mode EDR) function operating in 2402-2480MHz. The EUT is powered by DC 36.0V by rechargeable battery. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK, p/4-DQPSK and 8-DPSK

Antenna Gain: 2.0dBi Max

Bluetooth Version: 5.0 (Single Mode EDR)

The nominal conducted output power specified: 1.0 dBm ( $\pm 3$ dB)

The nominal radiated output power (e.i.r.p) specified: 3.0 dBm ( $\pm 3$ dB)

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 100.8 dB $\mu$ V/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 5.57dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 96.1 dB $\mu$ V/m at 3m in the frequency 2441MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 0.87dBm

which is within the production variation.

The maximum conducted output power specified is 6dBm= 3.981mW

The source- based time-averaging conducted output power  
=3.981mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

=  $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

=  $3.0 \cdot 5 / \sqrt{2.480}$  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.