## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Moga Hero Power with Bluetooth function. The EUT was powered by a 3.7 VDC Li-ion rechargeable battery charged by an USB Power Adapter with AC 120V, 60Hz. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: -13.0dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: -13.0dBm (+/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $81.7 dB\mu V/m$  at 3m in the frequencies 2402 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW =-13.5dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $80.9 dB\mu V/m$  at 3m in the frequency 2441 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW =-14.3dBm which is within the production variation.

The maximun conducted output power specified is -10.0dBm = 0.1mW The source- based time-averaging conducted output power

= 0.1 \* Duty factor mW= 0.0833 mW

The SAR Exclusion Threshold Level:

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

FCC ID: YFK-00035301

## Transmitter Duty Cycle Calculation

Based on the Bluetooth Specification (BT version:2.1), the duty factor is dependent of packet type (DH1, DH3 and DH5). For one period for a pseudo-random hopping through all 79 RF channels, for DH5:

One hop set consists of 5 TX slot and 1 RX slot.

Duty factor = 5 / 6 = 0.833

This requirement is according to KDB 865664 D02

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