## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a ELECTRIC SCOOTER with Bluetooth function. The EUT was powered by DC 36 V from internal rechargeable battery and can be Charged by AC/DC adapter AOI-08420155DD1 with the following ratings: Input: AC100-240V 50/60Hz 1.5A Output: DC42V 1550mA . For more detail information pls. refer to the user manual.

Modulation Type GFSK,  $\pi/4DQPSK$ , 8DPSK for BT 3.0, 2.1+EDR. Bluetooth Version: 3.0, 2.1 with EDR.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: 6.0dBm +/-3dB.

The nominal radiated output power (e.i.r.p) specified: 6.0dBm (+/- 3dB)

According to the KDB 447498:

The minimum peak radiated emission for the EUT is  $100.7 dB\mu V/m$  at 3m in the frequency 2402 MHz of BT 3.0, 2.1+EDRThe EIRP = [(FS\*D) ^2 / 30] mW = 5.47 dBm which is within the production variation.

The maximum peak radiated emission for the EUT is  $100.9 dB\mu V/m$  at 3m in the frequency 2441MHz of BT 3.0, 2.1+EDR The EIRP = [(FS\*D) ^2 / 30] mW = 5.67dBm which is within the production variation.

The maximun conducted output power specified is 9.0dBm = 7.94mW The source- based time-averaging conducted output power

- = 7.94 \* Duty factor mW (where Duty Factor≤1)
- = 7.94 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.

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