## INTERTEK TESTING SERVICES

## **RF** Exposure

The equipment under test (EUT) is a Keyfob which has Bluetooth function. The EUT was powered by DC 3.0V (1 x CR2032 battery). For more detail information pls. refer to the user manual.

Modulation Type: GFSK Bluetooth Version: 4.1

Antenna Type: Integral antenna

Antenna Gain: 1.5dBi

The nominal radiated output power (e.i.r.p) specified: -3.0dBm (Tolerance: +/-

3dB)

The nominal conducted output power specified: -4.5dBm (Tolerance: +/- 3dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $92.7 dB\mu V/m$  at 3m in the frequency 2402 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -2.5dBm which is within the production variation.

The minimum peak radiated emission for the EUT is 90.2 dB $\mu$ V/m at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = -5.0dBm which is within the production variation.

The maximun conducted output power specified is -1.5 dBm = 0.7 mWThe source- based time-averaging conducted output power

= 0.7 \* Duty factor mW (where Duty Factor  $\leq$  1)

<= 0.7 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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