## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a Go Smart Brain with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 6.4V (1 x 6.4V rechargeable battery). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna

Modulation Type: GFSK Antenna Gain: 0dBi

Bluetooth Version: 5.1 BLE (Single Mode)

The normal radiated output power (e.i.r.p) is: 1.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 1.0dBm (tolerance: +/- 3dB).

## According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 97.7dBµV/m at 3m in the frequency 2402MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 2.47dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $95.3 dB\mu V/m$  at 3m in the frequency 2480MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 0.07dBm which is within the production variation.

The maximum conducted output power specified is 4dBm= 2.512mW
The source- based time-averaging conducted output power
=2.512\* Duty cycle mW =2.512 mW(Duty cycle =100%)

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt (2.480) mW

= 9.54 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: UKU-RAD15