Analysis Report

The Equipment Under Test (EUT) is a 2.4GHz BT 4.0 BLE transceiver (Bluetooth Toy), which is operating from 2402MHz to 2480MHz with 2MHz channel spacing. The EUT is powered by 6.0VDC (4 x 1.5V AA batteries). After paired with a smart device which contains the Apps, the user can control the EUT.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 86.1dBµV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was $89.1 dB\mu V/m$ at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 0.244$ mW

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 0.244 mW.

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.480) mW
- = 9.52 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.