

Analysis Report

Report No.: 16030585HKG-001

The Equipment Under Test (EUT) is a BLE toy baby which can either be operated with or without app. When EUT is operated with app, it will pair with the smart phone/ tablet via Bluetooth. The EUT's operating frequency range is 2402-2480 with 2 MHz channel spacing.

The EUT is powered by 4 * 1.5V AA batteries. After switching on the EUT, 2 LED screens will be turned on and the EUT will produce sound. When it is paired with app, the app will show whether the EUT is standing or lying.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 88.8dBμV/m at 3m

Maximum allowed field strength of production tolerance: +/- 2dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 90.8dBμV/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.361\text{mW}$

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

Conducted Power = 0.361mW.

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 \cdot 5 / \text{sqrt}(2.480) \text{ mW}$

= 9.53 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.