

# Analysis Report

Report No.: 13030710HKG-001

The Equipment Under Test (EUT) is a 2.4GHz Bluetooth speaker, which is operating between 2402MHz and 2480MHz (79 channels with 1MHz channel spacing). The EUT is powered by 120VAC or 4.5VDC (3 x 1.5V size "AA" Batteries). When the EUT is switched ON, the LED will flash. It is required to press the pairing button to pair with the corresponding device before playing audio. After pairing, the LED will stay lit. The EUT has an AUX IN jack to connect corresponding device to play audio.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 102.5dB $\mu$ V/m at 3m

Maximum allowed field strength of production tolerance: +2 /- 4dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 104.5dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 8.455\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 8.455mW.

The SAR Exclusion Threshold Level:

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

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

= 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.

Note: The EUT is using non-adaptive frequency hopping as declared by applicant.