

Analysis Report

Report No.: HK12120780-1

The Equipment Under Test (EUT) is Tower Music Player with Active Sub-woofer, bundling with a pair of separate passive stereo speakers. It can accept analog audio input sources: FM radio, Audio CD play back, 3.5mm phone-jack line-in, and digital audio input source: wireless Bluetooth device. The Bluetooth module in the EUT operates in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing).

The EUT and the active Subwoofer are powered by 120VAC individually.

Antenna Type: Internal integral (PCB Trace)

Antenna Gain: 0dBi

Nominal rated field strength: 93.1dB μ V/m at 3m

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

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 96.1dB μ V/m at 3m in frequency 2.402GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 1.2\text{mW}$

Conducted power = Radiated Power (EIRP) - Antenna Gain

So;

Conducted Power = 1.2mW.

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 mWm

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.