

Analysis Report

FCC ID: A2HSBT1739-SWE

The Equipment Under Test (EUT) is the wireless Subwoofer Unit (with two separate surround speakers) of Home Theatre Sound Bar. The audio signal can be sent via the 2.4GHz Digital wireless modules, which are incorporated in both soundbar unit and subwoofer unit. The EUT is powered by 120VAC mains.

Antenna Type: Internal, integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 92.0dB μ V/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 95.0dB μ V/m at 3m in frequency 2.479GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.949\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.949mW.

The SAR Exclusion Threshold Level:

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

= $3.0 \cdot 5 / \text{sqrt}(2.479) \text{ mW}$

= 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.