RF Exposure

The Equipment under Test (EUT) is a 2.0 CH Soundbar, 2.1 CH Soundbar with Wire Subwoofer model TB236DSW which has Bluetooth function. It is powered by AC120V, 60Hz. For more detail information please refer to the user manual.

Antenna Type: Integral antenna.
Antenna Gain: 1dBi.
Modulation Type: GFSK, π/4 –DQPSK and 8-DPSK for BT 4.2.
The nominal conducted output power specified: -1dBm (Tolerance: ±4.0dB)
The nominal radiated output power specified: 0dBm (Tolerance: ±4.0dB)

The minimum conducted output power for the EUT is -5.00dBm in the frequency 2441MHz of BT 4.2 which is within the production variation.

The maximun conducted output power for the EUT is -4.53dBm in the frequency 2402MHz of BT 4.2 which is within the production variation.

According to the KDB 447498:

The maximun conducted output power specified is 3.0dBm = 2.0mW
The source- based time-averaging conducted output power
= 2.0* Duty Cycle mW (where Duty cycle≤1)
≤ 2.0mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.