
INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a 2.0 CH Soundbar, 2.0 channel Sound Bar Home Theater System, with Bluetooth FHSS technology operating in 2402-2480MHz. The EUT is powered by AC 120V, 60Hz. For more detail information pls. refer to the user manual.

Bluetooth Version: 3.0+EDR

Antenna Type: Integral antenna

Antenna Gain: 2 dBi

Modulation Type: GFSK, $\pi/4$ -DQPSK and 8-DPSK

The nominal conducted output power specified: -8.0dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum conducted output power for the EUT is -5.08dBm in the frequency 2402MHz and the minimum conducted output power for the EUT is -6.45dBm in the frequency 2480MHz which are within the production variation.

The maximum conducted output power specified is -5.0dBm = 0.32mW

The source-based time-averaging conducted output power
= 0.32 * Duty Cycle mW (where Duty Cycle < 100%) < 0.32 mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)

= 3.0 * 5 / sqrt (2.480) mW

= 9.5 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.