Analysis Report

The equipment under test (EUT) is a 36" 2.1 SOUNDBAR with Bluetooth function operating in 2402-2480MHz. The EUT is powered DC 20V/2.4A through adapter. For more detail information pls. refer to the user manual.

Classic Bluetooth function:

Modulation Type: GFSK, π/4-DQPSK and 8-DPSK
Bluetooth Version: 4.2(without BLE)
Antenna Type: PCB Antenna
Antenna Gain: 1dBi
The nominal radiated output power specified: -3dBm (Tolerance: +/-6dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 96.5 dBμV/m at 3m in the frequency 2.441GHz = [(FS*D) ^2 / 30] mW
= 1.3 dBm which is within the production variation

The minimum radiated emission for the EUT is 90.2 dBμV/m for at 3m in the frequency 2.480GHz = [(FS*D) ^2 / 30] mW
= -5.0 dBm which is within the production variation

The maximun conducted output power specified is 3dBm = 2.0mW
The source- based time-averaging conducted output power
= 2.0* Duty cycle mW <= 2.0 mW (Duty Cycle<=100%)

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.