RF Exposure

The equipment under test (EUT) is a ONN 2.0 MINI SOUNDBAR with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 15V from adaptor.For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4DQPSK, 8DPSK Bluetooth Version: 4.2(without BLE) Antenna Type: Copper dipole antenna Antenna Gain: 3.87dBi Max The nominal radiated output power (e.i.r.p) specified: 7.87dBm (Tolerance: +/-3dB)

The nominal conducted output power specified: 4dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $100.3dB\mu V/m$ at 3m in the frequency 2480MHz of BT 4.2 The EIRP = [(FS*D) ^2 / 30] mW = 5.1 dBm which is within the production variation.

The minimum peak radiated emission for the EUT is 100.2 dB μ V/m at 3m in the frequency 2402MHz of BT 4.2 The EIRP = [(FS*D) ^2 / 30] mW = 5.0 dBm which is within the production variation.

The maximun conducted output power specified is 7dBm = 5.012mWThe source- based time-averaging conducted output power = 5.012 * Duty factor mW (where Duty Factor ≤ 1) = 5.012 mW

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