RF Exposure

The equipment under test (EUT) is a HI FI COMPONENT SYSTEM with Bluetooth function. The EUT was powered by AC100-240V, 50/60Hz, 22W. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4DQPSK, 8DPSK Bluetooth Version: 2.1+EDR

Antenna Type: Integral antenna. Antenna Gain: 0dBi. The nominal conducted output power specified: -3.0dBm (+/-2dB). The nominal radiated output power (e.i.r.p) specified: -3.0dBm (+/- 2dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $92.4dB\mu V/m$ at 3m in the frequency 2402MHz of Bluetooth module 1 The EIRP = [(FS*D) ^2 / 30] mW = -2.83dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $90.6dB\mu$ V/m at 3m in the frequency 2441MHz of Bluetooth module 1 The EIRP = [(FS*D) ^2 / 30] mW = -4.63dBm which is within the production variation.

The maximun conducted output power specified is -1.0dBm = 0.79mW The source- based time-averaging conducted output power = 0.79 * Duty factor mW (where Duty Factor≤1) = 0.79 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.