Analysis Report

The equipment under test (EUT) is a 100-Watt Bluetooth CD Stereo System with Bluetooth technology operating in 2402-2480MHz. The EUT is powered by AC 120V, 60Hz. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4-DQPSK and 8-DPSK
Bluetooth Version: 2.1+EDR
Antenna Type: PCB Antenna
Antenna Gain: 0dBi

The nominal conducted output power specified: 1dBm (Tolerance: +/-5dB)

The nominal radiated output power specified: 1dBm (Tolerance: +/-5dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 100.1dBμV/m at 3m in the frequency 2480MHz.
The EIRP = [(FS*D) ^2 / 30] mW = 4.87dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 100.9dBμV/m at 3m in the frequency 2402MHz.
The EIRP = [(FS*D) ^2 / 30] mW =5.67dBm
which is within the production variation.

The maximun conducted output power specified is 6.0dBm = 3.98mW
The source- based time-averaging conducted output power
= 3.98* Duty cycle mW <= 3.98 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.