RF Exposure

The equipment under test (EUT) is a Wireless Presenter with Bluetooth and 2.4G SRD function operated at 2.4GHz band while Bluetooth and 2.4G SRD function can`t be used at the same time. The EUT is powered by DC 1.5V by AAA battery. For more detail information pls. refer to the user manual.

Bluetooth Version: 4.2 (Single Mode BLE)
Modulation Type: GFSK

Antenna Type: Integral antenna.
Antenna Gain: -1dBi.
The nominal conducted output power specified: -1dBm (+/-3dB).
The nominal radiated output power (e.i.r.p) specified: -2dBm (+/- 3dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 92.8dBμV/m at 3m in the frequency 2402MHz
The EIRP = [(FS*D) ^2 / 30] mW = -2.43dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.8dBμV/m at 3m in the frequency 2440MHz
The EIRP = [(FS*D) ^2 / 30] mW = -3.43dBm
which is within the production variation.

The maximun conducted output power specified is 2dBm = 1.6mW
The source- based time-averaging conducted output power
= 1.6 * Duty factor mW (where Duty Factor≤1)
= 1.6 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.

2.4G SRD:
Modulation Type: GFSK

Antenna Type: Integral antenna.
Antenna Gain: -1dBi.
The nominal conducted output power specified: -1dBm (+/-3dB).
The nominal radiated output power (e.i.r.p) specified: -2dBm (+/- 3dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 93.6dBμV/m at 3m in the frequency 2404MHz
The EIRP = [(FS*D) ^2 / 30] mW = -1.63dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.2dBμV/m at 3m in the frequency 2478MHz
The EIRP = [(FS*D) ^2 / 30] mW = -4.03dBm
which is within the production variation.

The maximun conducted output power specified is 2dBm = 1.6mW
The source- based time-averaging conducted output power
= 1.6 * Duty factor mW (where Duty Factor$\leqslant$1)
= 1.6 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.