## **Analysis Report**

The Equipment Under Test (EUT) is a 2.4GHz BT 4.0 BLE transceiver for a Baby bottle Warmer that operating from 2402MHz to 2480MHz with 2MHz channel spacing. The EUT is powered by AC120V/60Hz. After paired with smart device, the user can set the command from the smart device to control the EUT.

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 93.3 dBµV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was  $96.3 dB\mu V/m$  at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 1.28 \text{mW}$ 

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 1.28mW.

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.480) mW
- = 9.52 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.