

## **FCC ID : 2BHLUTBLB**

### ➤ **Test Standards and Limits**

#### 1. According to KDB 447498 D01 v06, Section 4.3.1

#### 2. FCC Radiofrequency radiation exposure limits:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max power of channel})/(\text{min test separation distance})] * [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $<$  5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

### ➤ **Measurement and Calculation**

#### 1. Maximum transmit power

BLE antenna gain: 2.02 dBi

Transmit Frequency (GHz)	Mode	Max Conducted Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
2.402(2M)	GFSK	-1.24	-1	0.163	3
2.440(2M)	GFSK	-0.65	-1	0.123	3
2.480(2M)	GFSK	-1.28	-1	0.168	3

#### 2. MPE Calculation

For the max result :  $0.168 \leq 3.0$  for 1-g SAR extremity SAR, No SAR is required.

-End of the Report-