

FCC ID: JFZSQ1TWL

## Standalone SAR test exclusion considerations

| RF feauture | Mode         | Transmitting<br>Frequency(MHz) | Test separation<br>distance (mm) | ANT Gain<br>(dBi) | Max. power with<br>tune-up tolerance<br>(dBm) <sup>Note1,2</sup> | Max. power with<br>tune-up tolerance<br>(mW) | Power thresholds | SAR test exclusion<br>thresholds |
|-------------|--------------|--------------------------------|----------------------------------|-------------------|--|--|------------------|----------------------------------|
| ВТ          | BDR(1Mbps)   | 2 480.00                       | 5.0                              | 0.11              | 5.35   | 3.427 7                                      | 1.08             | 3.00                             |
| ВТ          | EDR(2,3Mbps) | 2 480.00                       | 5.0                              | 0.11              | 4.35   | 2.722 7                                      | 0.86             | 3.00                             |
| BLE         | GFSK(1Mbps)  | 2 480.00                       | 5.0                              | 0.11              | 0.00   | 1.000 0                                      | 0.31             | 3.00                             |
|             |              |                                |                                  |                   |  |  |                  |                                  |
|             |              |                                |                                  |                   |  |  |                  |                                  |
|             |              |                                |                                  |                   |  |  |                  |                                  |
|             |              |                                |                                  |                   |  |  |                  |                                  |
|             |              |                                |                                  |                   |  |  |                  |                                  |
|             |              |                                |                                  |                   |  |  |                  |                                  |
|             |              |                                |                                  |                   |  |  |                  |                                  |

Note1. For bluetooth(BDR, EDR), the max tune-up power was based on time-averaged power.

Max Time Avg. Power = Max Burst Avg. Power + Duty facor

Duty facotr =  $10 \times \log (TX_{on time} / Tx_{on+off time}) = 10 \times \log (2.88 ms/3.75 ms) = -1.15 dB$ 

Note2. Please refer to the operation description for Max tune-up power.

## KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[ ( max. power of channel, including tune-up tolerance, mW ) / ( min. test separation distance, mm ) ]  $\cdot$  [  $\sqrt{f(GHz)}$  ]  $\leq$  3.0 for 1g SAR and  $\leq$  7.5 for 10g extremity SAR **Sample Calculation** 

 $= [(3.4277 \text{mW} / 5 \text{mm})] \text{ X } [\sqrt{2.48 \text{GHz}}] = 1.08$ 

Note. The calculation result was rounded to two decimal place for comparison.