

RF exposure letter

RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance v05

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

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

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

Rated RF power output

1、 2.402-2.480GHz:

Mode	BT4.1
Detector	PK
GFSK	$1 \pm 0.6 \text{ dBm}$

2、 2.4G BT output power:

2402MHz : $(1.445 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.448 < 3.0$ for 1-g SAR

2440MHz : $(1.445 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.440(\text{GHz})}] = 0.451 < 3.0$ for 1-g SAR

2480MHz : $(1.445 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.455 < 3.0$ for 1-g SAR

Then SAR evaluation is not required