

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

According to KDB447498 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:

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

f(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;

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

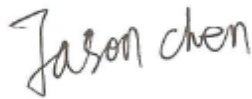
Maximum measured transmitter power:

Bluetooth:

| Transmit Frequency (GHz) | Mode | Measured Power (dBm) | Tune-up power (dBm) | Max tune-up power(dBm) | Result calculation | 1g SAR |
|--------------------------|-----------|----------------------|---------------------|------------------------|--------------------|--------|
| 2.402 | GFSK | -2.91 | -2±1 | -1 | 0.2462 | 3 |
| 2.441 | | -2.95 | -2±1 | -1 | 0.2482 | 3 |
| 2.48 | | -3.00 | -2±1 | -1 | 0.2502 | 3 |
| 2.402 | π/4-DQPSK | -1.92 | -2±1 | -1 | 0.2462 | 3 |
| 2.441 | | -1.98 | -2±1 | -1 | 0.2482 | 3 |
| 2.48 | | -2.90 | -2±1 | -1 | 0.2502 | 3 |

Conclusion:

For the max result : 0.2502 ≤ 3.0 for 1g SAR, No SAR is required.



Signature:

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