

FCC ID: 2AKU5ZG21

According to §15.247(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 V06

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:

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

BT DSS:

| Transmit Frequency (GHz) | Mode | Max Conducted Power (dBm) | tune up maximum power(dBm) | Result calculation | 1-g SAR |
|--------------------------|-----------|---------------------------|----------------------------|--------------------|---------|
| 2412 | 11B | 7.53 | 9.5 | 2.768 | 3 |
| 2437 | 11B | 7.04 | 9.5 | 2.783 | 3 |
| 2462 | 11B | 7.90 | 9.5 | 2.797 | 3 |
| 2412 | 11G | 7.36 | 9.5 | 2.768 | 3 |
| 2437 | 11G | 7.57 | 9.5 | 2.783 | 3 |
| 2462 | 11G | 7.48 | 9.5 | 2.797 | 3 |
| 2412 | 11N20SISO | 7.31 | 9.5 | 2.768 | 3 |
| 2437 | 11N20SISO | 6.95 | 9.5 | 2.783 | 3 |
| 2462 | 11N20SISO | 7.31 | 9.5 | 2.797 | 3 |

Conclusion:

For the max result : $2.797 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature:



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