

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 V06

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

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 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 before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Bluetooth LE:

Antenna Type: PCB Antenna

Antenna Gain: 0.54dBi

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK(1M)	2.402	-0.89	0.815	-1.5±1	-0.5	0.891	<5	0.27626	3.00	YES
	2.44	-2.43	0.571	-1.5±1	-0.5	0.891	<5	0.27844	3.00	YES
	2.480	-0.65	0.861	-1.5±1	-0.5	0.891	<5	0.28071	3.00	YES
GFSK(2M)	2.402	-0.51	0.889	-1±1	0.0	1.000	<5	0.30997	3.00	YES
	2.44	-1.34	0.735	-1±1	0.0	1.000	<5	0.31241	3.00	YES
	2.480	-0.35	0.923	-1±1	0.0	1.000	<5	0.31496	3.00	YES

Conclusion:

For the max result : $0.31496 \leq 3.0$ for 1-g SAR, No SAR is required.



Signature:

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