

Portable device

According to §2.1093 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.

BLE:

Antenna Type: PCB Antenna

Antenna Gain: -0.58dBi

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	2.402	-2.21	0.601	-3 $\pm$ 1	-2.0	0.631	<5	0.19558	3.00	YES
	2.441	-2.76	0.530	-3 $\pm$ 1	-2.0	0.631	<5	0.19716	3.00	YES
	2.48	-3.94	0.404	-3 $\pm$ 1	-2.0	0.631	<5	0.19873	3.00	YES
$\pi/4$ -DQPSK	2.402	-0.17	0.962	-2 $\pm$ 1	-1.0	0.794	<5	0.24622	3.00	YES
	2.441	-0.63	0.865	-2 $\pm$ 1	-1.0	0.794	<5	0.24821	3.00	YES
	2.48	-1.82	0.658	-2 $\pm$ 1	-1.0	0.794	<5	0.25018	3.00	YES
8-DPSK	2.402	0.07	1.016	-2 $\pm$ 1	-1.0	0.794	<5	0.24622	3.00	YES
	2.441	-0.03	0.993	-2 $\pm$ 1	-1.0	0.794	<5	0.24821	3.00	YES
	2.48	-1.21	0.757	-2 $\pm$ 1	-1.0	0.794	<5	0.25018	3.00	YES
GFSK(1M)	2.402	-2.05	0.624	-3 $\pm$ 1	-2.0	0.631	<5	0.19558	3.00	YES
	2.44	-2.64	0.545	-3 $\pm$ 1	-2.0	0.631	<5	0.19712	3.00	YES
	2.48	-3.92	0.406	-3 $\pm$ 1	-2.0	0.631	<5	0.19873	3.00	YES

Conclusion:

For the max result: $0.0.25018 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature:

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Date: 2026-08-14

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