

Portable device

According to §15.247(e)(i), §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:

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-2.65	0.54	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.440	-1.47	0.71	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-0.42	0.91	0±1	1	1.26	<5	0.39651	3.00	YES
$\pi/4$ -DQPSK	2.402	-2.47	0.57	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.440	-1.28	0.74	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-0.25	0.94	0±1	1	1.26	<5	0.39651	3.00	YES
8-DPSK	2.402	-2.48	0.56	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.440	-1.28	0.74	-1±1	0	1.00	<5	0.31241	3.00	YES
	2.480	-0.25	0.94	0±1	1	1.26	<5	0.39651	3.00	YES
BLE 1M	2.402	-2	0.63	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.440	-0.91	0.81	0±1	1	1.26	<5	0.39330	3.00	YES
	2.480	0.2	1.05	0±1	1	1.26	<5	0.39651	3.00	YES

Conclusion:

For the max result :0.4 $\leq$ 3.0 for 1g SAR, SAR is not required.

Signature:

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