

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.

BR+EDR:

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 calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-2.04	0.625	-3 $\pm$ 1	-2.0	0.631	<5	0.19558	3.00	YES
	2.441	-2.45	0.569	-3 $\pm$ 1	-2.0	0.631	<5	0.19716	3.00	YES
	2.48	-2.9	0.513	-3 $\pm$ 1	-2.0	0.631	<5	0.19873	3.00	YES
$\pi/4$ DQPSK	2.402	-2.01	0.630	-3 $\pm$ 1	-2.0	0.631	<5	0.19558	3.00	YES
	2.441	-2.41	0.574	-3 $\pm$ 1	-2.0	0.631	<5	0.19716	3.00	YES
	2.48	-2.82	0.522	-3 $\pm$ 1	-2.0	0.631	<5	0.19873	3.00	YES
8DPSK	2.402	-1.98	0.634	-2 $\pm$ 1	-1.0	0.794	<5	0.24622	3.00	YES
	2.441	-2.38	0.578	-3 $\pm$ 1	-2.0	0.631	<5	0.19716	3.00	YES
	2.48	-2.86	0.518	-3 $\pm$ 1	-2.0	0.631	<5	0.19873	3.00	YES

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 calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK 1M	2.402	-4.6	0.347	-4 $\pm$ 1	-3.0	0.501	<5	0.15535	3.00	YES
	2.44	-1.92	0.643	-2 $\pm$ 1	-1.0	0.794	<5	0.24816	3.00	YES
	2.48	-2.47	0.566	-3 $\pm$ 1	-2.0	0.631	<5	0.19873	3.00	YES
GFSK 2M	2.402	-4.49	0.356	-4 $\pm$ 1	-3.0	0.501	<5	0.15535	3.00	YES
	2.44	-1.89	0.647	-2 $\pm$ 1	-1.0	0.794	<5	0.24816	3.00	YES
	2.48	-2.48	0.565	-3 $\pm$ 1	-2.0	0.631	<5	0.19873	3.00	YES

Conclusion:

For the max result: $0.24816 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature:

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