

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.

BT:

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	-8.52	0.14	-8±1	-7	0.20	<5	0.06185	3.00	YES
	2.441	-7.96	0.16	-8±1	-7	0.20	<5	0.06235	3.00	YES
	2.480	-8.15	0.15	-8±1	-7	0.20	<5	0.06284	3.00	YES
$\pi/4$ -DQPSK	2.402	-7.61	0.17	-7±1	-6	0.25	<5	0.07786	3.00	YES
	2.441	-7.01	0.20	-7±1	-6	0.25	<5	0.07849	3.00	YES
	2.480	-7.33	0.18	-7±1	-6	0.25	<5	0.07911	3.00	YES
8-DPSK	2.402	-7.04	0.20	-7.5±1	-6.5	0.22	<5	0.06939	3.00	YES
	2.441	-6.5	0.22	-7.5±1	-6.5	0.22	<5	0.06995	3.00	YES
	2.480	-6.77	0.21	-7.5±1	-6.5	0.22	<5	0.07051	3.00	YES
BLE 1M	2.402	-2.68	0.54	-3±1	-2	0.63	<5	0.19558	3.00	YES
	2.440	-2.52	0.56	-3±1	-2	0.63	<5	0.19712	3.00	YES
	2.480	-3.16	0.48	-3±1	-2	0.63	<5	0.19873	3.00	YES
BLE 2M	2.402	-2.58	0.55	-2±1	-1	0.79	<5	0.24622	3.00	YES
	2.440	-2.34	0.58	-2±1	-1	0.79	<5	0.24816	3.00	YES
	2.480	-2.94	0.51	-2±1	-1	0.79	<5	0.25018	3.00	YES

Conclusion:

For the max result : $0.25018 \leq 3.0$ for 1g SAR, SAR is not required.



Signature:

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