

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 \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$ 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)	Conducted power (dBm)	Conducted 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	2.76	1.89	2 \pm 1	3	2.00	<5	0.61847	3.00	YES
	2.441	2.56	1.80	2 \pm 1	3	2.00	<5	0.62347	3.00	YES
	2.480	1.66	1.47	2 \pm 1	3	2.00	<5	0.62843	3.00	YES
$\pi/4$ -DQPSK	2.402	3.52	2.25	3 \pm 1	4	2.51	<5	0.77860	3.00	YES
	2.441	3.37	2.17	3 \pm 1	4	2.51	<5	0.78490	3.00	YES
	2.480	2.5	1.78	3 \pm 1	4	2.51	<5	0.79114	3.00	YES
BLE 1M	2.402	2.89	1.95	2 \pm 1	3	2.00	<5	0.61847	3.00	YES
	2.440	2.76	1.89	2 \pm 1	3	2.00	<5	0.62334	3.00	YES
	2.480	1.84	1.53	2 \pm 1	3	2.00	<5	0.62843	3.00	YES
BLE 2M	2.402	2.99	1.99	2 \pm 1	3	2.00	<5	0.61847	3.00	YES
	2.440	2.77	1.89	2 \pm 1	3	2.00	<5	0.62334	3.00	YES
	2.480	1.84	1.53	2 \pm 1	3	2.00	<5	0.62843	3.00	YES

Conclusion:

For the max result : 0.79114 \leq 3.0 for 1g SAR, SAR is not required.

Signature:



Date: 2025-06-13

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