

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.

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	0.974	1.25	1.5±1	2.5	1.78	<5	0.55121	3.00	YES
	2.441	2.333	1.71	1.5±1	2.5	1.78	<5	0.55567	3.00	YES
	2.480	1.073	1.28	1.5±1	2.5	1.78	<5	0.56009	3.00	YES
$\pi/4$ -DQPSK	2.402	1.612	1.45	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	1.576	1.44	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	1.709	1.48	2±1	3	2.00	<5	0.62843	3.00	YES
BLE	2.402	1.223	1.33	1±1	2	1.58	<5	0.49127	3.00	YES
	2.440	0.535	1.13	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	1.364	1.37	1±1	2	1.58	<5	0.49918	3.00	YES

Conclusion:

For the max result : 0.62843 \leq 3.0 for 1g SAR, SAR is not required.



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