

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	-1.533	0.70	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	-1.332	0.74	-1±1	0	1.00	<5	0.31247	3.00	YES
	2.480	0.129	1.03	0±1	1	1.26	<5	0.39651	3.00	YES
$\pi/4$ -DQPSK	2.402	-1.349	0.73	-1±1	0	1.00	<5	0.30997	3.00	YES
	2.441	0.454	1.11	0±1	1	1.26	<5	0.39338	3.00	YES
	2.480	0.51	1.12	0±1	1	1.26	<5	0.39651	3.00	YES
8-DQPSK	2.402	0.127	1.03	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	0.693	1.17	1±1	2	1.58	<5	0.49524	3.00	YES
	2.480	1.057	1.28	1±1	2	1.58	<5	0.49918	3.00	YES
BLE	2.402	-8.553	0.14	-8±1	-7	0.20	<5	0.06185	3.00	YES
	2.441	-8.451	0.14	-8±1	-7	0.20	<5	0.06235	3.00	YES
	2.480	-7.933	0.16	-8±1	-7	0.20	<5	0.06284	3.00	YES

WIFI2.4G

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
802.11b	2.412	6.62	4.59	7±1	8	6.31	<5	1.95983	3.00	YES
	2.437	6.54	4.51	7±1	8	6.31	<5	1.96996	3.00	YES
	2.462	7.31	5.38	7±1	8	6.31	<5	1.98004	3.00	YES
802.11g	2.412	6.6	4.57	6±1	7	5.01	<5	1.55675	3.00	YES
	2.437	6.65	4.62	6±1	7	5.01	<5	1.56480	3.00	YES
	2.462	6.37	4.34	6±1	7	5.01	<5	1.57280	3.00	YES
802.11n20	2.412	5.88	3.87	6±1	7	5.01	<5	1.55675	3.00	YES
	2.437	6.45	4.42	6±1	7	5.01	<5	1.56480	3.00	YES
	2.462	6.25	4.22	6±1	7	5.01	<5	1.57280	3.00	YES

Conclusion:

For the max result : $1.98004 \leq 3.0$ for 1g SAR, SAR is not required.

Alex

Signature:

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