

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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	4.094	2.57	3.5±1	4.5	2.82	<5	0.87361	3.00	YES
	2.441	3.026	2.01	3.5±1	4.5	2.82	<5	0.88067	3.00	YES
	2.480	2.691	1.86	3.5±1	4.5	2.82	<5	0.88768	3.00	YES
$\pi/4$ -DQPSK	2.402	2.892	1.95	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	1.496	1.41	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	1.457	1.40	2±1	3	2.00	<5	0.62843	3.00	YES
8-DQPSK	2.402	3.001	2.00	2.5±1	3.5	2.24	<5	0.69393	3.00	YES
	2.441	2.035	1.60	2.5±1	3.5	2.24	<5	0.69954	3.00	YES
	2.480	1.573	1.44	2.5±1	3.5	2.24	<5	0.70511	3.00	YES
BLE 1M	2.402	0.046	1.01	0±1	1	1.26	<5	0.39023	3.00	YES
	2.44	0.367	1.09	0±1	1	1.26	<5	0.39330	3.00	YES
	2.480	-0.951	0.80	0±1	1	1.26	<5	0.39651	3.00	YES
BLE 2M	2.402	0.19	1.04	0±1	1	1.26	<5	0.39023	3.00	YES
	2.44	0.535	1.13	0±1	1	1.26	<5	0.39330	3.00	YES
	2.480	-0.773	0.84	0±1	1	1.26	<5	0.39651	3.00	YES

**Conclusion:**

For the max result :  $0.88768 \leq 3.0$  for 1g SAR, SAR is not required.



**Signature:**

**Date:** 2022-05-26

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