

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.

BR+EDR:

Antenna Type : Chip Antenna

Antenna Gain: 2.5 dBi

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 calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-0.83	0.826	0±1	1	1.259	<5	0.39023	3.00	YES
	2.441	1.017	1.264	1±1	2	1.585	<5	0.49524	3.00	YES
	2.480	1.695	1.477	1±1	2	1.585	<5	0.49918	3.00	YES
$\pi/4$ -DQPSK	2.402	-0.055	0.987	0±1	1	1.259	<5	0.39023	3.00	YES
	2.441	0.488	1.119	1±1	2	1.585	<5	0.49524	3.00	YES
	2.480	0.475	1.116	1±1	2	1.585	<5	0.49918	3.00	YES
8DPSK	2.402	-1.42	0.721	0±1	1	1.259	<5	0.39023	3.00	YES
	2.441	0.975	1.252	1±1	2	1.585	<5	0.49524	3.00	YES
	2.480	1.388	1.377	1±1	2	1.585	<5	0.49918	3.00	YES

BLE:

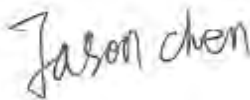
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Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.34	1.081	1±1	2	1.585	<5	0.49127	3.00	YES
	2.44	1.55	1.429	1±1	2	1.585	<5	0.49514	3.00	YES
	2.480	1.35	1.365	1±1	2	1.585	<5	0.49918	3.00	YES

Conclusion:

For the max result : $0.49918 \leq 3.0$ for 1-g SAR, No SAR is required.



Signature:

Date: 2017-09-20

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