

FCC ID: APIJBLFREE

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 :FPCB Antenna

Antenna Gain: -2 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	4.59	2.877	5.5±1	6.5	4.467	<5	1.38458	3.00	YES
	2.441	6.25	4.217	5.5±1	6.5	4.467	<5	1.39577	3.00	YES
	2.480	6.08	4.055	5.5±1	6.5	4.467	<5	1.40688	3.00	YES
$\pi/4$ -DQPSK	2.402	2.34	1.714	2±1	3	1.995	<5	0.61847	3.00	YES
	2.441	6.29	4.256	5.5±1	6.5	4.467	<5	1.39577	3.00	YES
	2.480	6.06	4.036	5.5±1	6.5	4.467	<5	1.40688	3.00	YES
8DPSK	2.402	2.8	1.905	2±1	3	1.995	<5	0.61847	3.00	YES
	2.441	4.9	3.090	5.5±1	6.5	4.467	<5	1.39577	3.00	YES
	2.480	4.61	2.891	5.5±1	6.5	4.467	<5	1.40688	3.00	YES

BLE:

Antenna Type :FPCB Antenna

Antenna Gain: -2 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	6.15	4.121	7±1	8	6.310	<5	1.95576	3.00	YES
	2.44	7.22	5.272	7±1	8	6.310	<5	1.97117	3.00	YES
	2.480	6.42	4.385	7±1	8	6.310	<5	1.98727	3.00	YES

Conclusion:

For the max result : $1.98727 \leq 3.0$ for 1-g SAR, No SAR is required.

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Signature:

Date: 2017-08-28

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