

FCC ID: APIJBLFREEX

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 : LDS Antenna

Antenna Gain: -2.03 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 calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	8.38	6.887	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.73	7.464	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.48	7.047	8±1	9	7.943	<5	2.50182	3.00	YES
$\pi/4$ -DQPSK	2.402	8.36	6.855	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.73	7.464	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.48	7.047	8±1	9	7.943	<5	2.50182	3.00	YES
8DPSK	2.402	8.36	6.855	8±1	9	7.943	<5	2.46216	3.00	YES
	2.441	8.75	7.499	8±1	9	7.943	<5	2.48207	3.00	YES
	2.480	8.48	7.047	8±1	9	7.943	<5	2.50182	3.00	YES

BLE:

Antenna Type : LDS Antenna

Antenna Gain: -2.03 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 calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	8.5	7.079	8±1	9	7.943	<5	2.46216	3.00	YES
	2.44	8.84	7.656	8±1	9	7.943	<5	2.48156	3.00	YES
	2.480	8.57	7.194	8±1	9	7.943	<5	2.50182	3.00	YES

Conclusion:

For the max result : $2.50182 \leq 3.0$ for 1-g SAR, No SAR is required.

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Signature:

Date: 2018-04-21

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