

**FCC ID: HBOPBT001**

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  $\leq 7.5$  for 10-g extremity SAR, where:

- f(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: PCB Antenna

Antenna Gain: 0.5 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 calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-3.65	0.432	-3±1	-2.0	0.631	<5	0.19558	3.00	YES
	2.441	-3.81	0.416	-3±1	-2.0	0.631	<5	0.19716	3.00	YES
	2.480	-3.27	0.471	-3±1	-2.0	0.631	<5	0.19873	3.00	YES
π/4-DQPSK	2.402	-1.16	0.766	-1±1	0.0	1.000	<5	0.30997	3.00	YES
	2.441	-1.33	0.736	-1±1	0.0	1.000	<5	0.31247	3.00	YES
	2.480	-0.75	0.841	-1±1	0.0	1.000	<5	0.31496	3.00	YES
8DPSK	2.402	-0.73	0.845	0±1	1.0	1.259	<5	0.39023	3.00	YES
	2.441	-0.94	0.805	0±1	1.0	1.259	<5	0.39338	3.00	YES
	2.480	-0.29	0.935	0±1	1.0	1.259	<5	0.39651	3.00	YES

BLE:

Antenna Type: PCB Antenna

Antenna Gain: 0.5 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 calculation	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-3.37	0.460	-3±1	-2	0.631	<5	0.19558	3.00	YES
	2.44	-3.54	0.443	-3±1	-2	0.631	<5	0.19712	3.00	YES
	2.480	-3.01	0.500	-3±1	-2	0.631	<5	0.19873	3.00	YES

**Conclusion:**

For the max result :  $0.39651 \leq 3.0$  for 1-g SAR, No SAR is required.



**Signature:**

**Date:** 2019-05-05

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