

**FCC ID: 2ADAO-KHWBC502F001**

## 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$  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.

## BLE:

Antenna Type: Surface Mount Ceramic Chip Antenna

Antenna Gain: 2.58dBi

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted 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(1M )	2.402	1.02	1.265	2 $\pm$ 1	3.0	1.995	<5	0.61847	3.00	YES
	2.44	1.74	1.493	2 $\pm$ 1	3.0	1.995	<5	0.62334	3.00	YES
	2.48	1.73	1.489	2 $\pm$ 1	3.0	1.995	<5	0.62843	3.00	YES
GFSK(2M )	2.402	0.98	1.253	1 $\pm$ 1	2.0	1.585	<5	0.49127	3.00	YES
	2.44	1.87	1.538	1 $\pm$ 1	2.0	1.585	<5	0.49514	3.00	YES
	2.48	1.76	1.500	1 $\pm$ 1	2.0	1.585	<5	0.49918	3.00	YES

**Conclusion:**

For the max result :  $0.62843 \leq 3.0$  for 1-g SAR, No SAR is required.



**Signature:**

**Date:** 2021-10-14

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