

FCC ID: 2BCIBZN-S03

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHZ)}$] ≤ 3.0 for 1-g SAR and ≤ 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.

BLE

Modulation	Channel	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	calculatio	SAR Exclusion threshold	SAR test exclusion
GFSK(2M bps)	2.402	-0.25	0.94	0±1	1.00	1.26	<5	0.39023	3.00	YES

RFID

According to the calculation formula of power:

Below 1GHz: dBm=dBuV/m-95.2-4.7

Modulation	Channel Freq. (MHz)	Output Power (dBuv/m)	Output Power (dBm)		
ASK	13.56	35.33	-64.57		

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)	calculatio	SAR Exclusion threshold	SAR test exclusion
ASK	0.01356	-64.57	0.00	-64±1	-63.00	0.000001	<5	0.000000	3.00	YES

Conclusion:

- 1. [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * $[\sqrt{f(GHz)}]$ < 3.0.
- 2. SAR Test Exclusion Thresholds is 3.0 for separation distance 5mm. Therefore, SAR test is not required.