

FCC ID: M7N-BW8493**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:

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-0.634	0.86	0 \pm 1	1.00	1.26	<5	0.39023	3.00	YES
	2.44	-0.394	0.91	0 \pm 1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-1.152	0.77	-1 \pm 1	0.00	1.00	<5	0.31496	3.00	YES

908.4MHz:

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	SAR Exclusion threshold	SAR test exclusion
FSK	0.9084	-15.07	0.03	-15 \pm 1	-14.00	0.04	<5	0.00759	3.00	YES

Note: $\text{dbm} = \text{dbuv/m} - 95.2 = 81.63 - 95.2 = -13.57 \text{ dBm (ERP)}$, so the conducted peak power = $-13.57 - 1.5 = -15.07 \text{ dBm}$

Conclusion:

For the max result : $0.3933 \leq \text{FCC Limit } 3.0 \text{ for 1g SAR.}$

908.4MHz+BLE: $0.3933/3 + 0.00759/3 = 0.1336 \leq 1.0 \text{ for 1g SAR.}$