

FCC ID: 2ANBU-MK228

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.

2.4GHz:

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.40385	-2.53	0.56	-2±1	-1.00	0.79	<5	0.24631	3.00	YES
	2.44185	0.87	1.22	1±1	2.00	1.58	<5	0.49532	3.00	YES
	2.47985	0.46	1.11	1±1	2.00	1.58	<5	0.49916	3.00	YES

Note:

Antenna Gain: 2.34dBi

2403.85MHz(dBm)=dbuv/m-95.2=95.01-95.2=-0.19dBm(EIRP), so the conduct peak power=-0.19-2.34=-2.53dBm

2441.85MHz(dBm)=dbuv/m-95.2=98.41-95.2=3.21dBm(EIRP), so the conduct peak power=3.21-2.34=0.87dBm

2479.85MHz(dBm)=dbuv/m-95.2=98-95.2=2.8dBm(EIRP), so the conduct peak power=2.8-2.34=0.46dBm

Conclusion:

For the max result: $0.49916 \leq \text{FCC Limit } 3.0$ for 1g SAR.