

FCC ID: 2ANT9-FC1

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.

BT:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-4.835	0.33	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-4.221	0.38	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-5.164	0.30	-3.00	0.50	<5	0.15785	3.00	YES
Pi/4 DQPSK	2.402	-4.57	0.35	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-3.931	0.40	-1.00	0.79	<5	0.24821	3.00	YES
	2.480	-4.968	0.32	-2.00	0.63	<5	0.19873	3.00	YES

BLE:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-5.276	0.30	-3.00	0.50	<5	0.15535	3.00	YES
	2.440	-4.911	0.32	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-4.812	0.33	-2.00	0.63	<5	0.19873	3.00	YES

Conclusion:

For the max result : $0.25 \leq \text{FCC Limit } 3.0$ for 1g SAR.