

FCC ID: 2BGYL-SJ-0003

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)	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	2.480	-5.98	0.25	-5 \pm 1	-4.00	0.40	<5	0.12539	3.00	YES
$\pi/4$ DQPSK	2.480	-5.16	0.30	-5 \pm 1	-4.00	0.40	<5	0.12539	3.00	YES
8DPSK	2.480	-4.62	0.35	-5 \pm 1	-4.00	0.40	<5	0.12539	3.00	YES

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(1Mbps)	2.480	-0.73	0.85	0 \pm 1	1.00	1.26	<5	0.39651	3.00	YES
GFSK(2Mbps)	2.480	-2.12	0.61	-1 \pm 1	-2.00	0.63	<5	0.19873	3.00	YES

For the Max simultaneous transmission

Evaluation mode	Result calculation	Total Result calculation	SAR Exclusion threshold	Result
BT	0.12539	0.5219	3.0	Pass
BLE	0.39651			

Conclusion:

For the max result :0.5219<3, the SAR testing is not required.