

FCC ID: 2BDJQ-HT53

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.

BLE1M:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.705	1.18	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.522	1.13	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.111	0.97	0±1	1.00	1.26	<5	0.39651	3.00	YES

BLE2M:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.661	1.16	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.415	1.10	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.165	0.96	0±1	1.00	1.26	<5	0.39651	3.00	YES

EDR:

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 calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.75	1.19	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.53	1.13	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.07	0.98	0±1	1.00	1.26	<5	0.39651	3.00	YES
π /4DQPSK	2.402	0.65	1.16	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.5	1.12	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.1	0.98	0±1	1.00	1.26	<5	0.39651	3.00	YES
8DQPSK	2.402	0.68	1.17	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	0.51	1.12	0±1	1.00	1.26	<5	0.39338	3.00	YES
	2.480	-0.15	0.97	0±1	1.00	1.26	<5	0.39651	3.00	YES

Conclusion:

For the max result : $0.39651 \leq$ FCC Limit 3.0 for 1g SAR.