

FCC ID: 2BDJQ-HT49

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	3.584	2.28	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	3.42	2.20	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	3.107	2.05	3±1	4.00	2.51	<5	0.79114	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	2.742	1.88	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	2.649	1.84	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.214	1.66	2±1	3.00	2.00	<5	0.62843	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	5.86	3.85	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	5.7	3.72	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	6.61	4.58	6±1	7.00	5.01	<5	1.57854	3.00	YES
π /4DQPSK	2.402	5.8	3.80	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	5.62	3.65	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	6.54	4.51	6±1	7.00	5.01	<5	1.57854	3.00	YES
8DQPSK	2.402	5.79	3.79	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.441	5.61	3.64	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	6.49	4.46	6±1	7.00	5.01	<5	1.57854	3.00	YES

Conclusion:

For the max result : $1.57854 \leq \text{FCC Limit } 3.0$ for 1g SAR.