

FCC ID: 2BDJQ-HT42

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.

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	1.427	1.39	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	4.074	2.56	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	0.387	1.09	0±1	1.00	1.26	<5	0.39651	3.00	YES
π /4DQPSK	2.402	3.636	2.31	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	6.222	4.19	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	2.422	1.75	2±1	3.00	2.00	<5	0.62843	3.00	YES
8DQPSK	2.402	4.148	2.60	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.441	6.828	4.82	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	2.925	1.96	2±1	3.00	2.00	<5	0.62843	3.00	YES

BLE:1M

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	2.402	-1.326	0.74	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.44	1.441	1.39	1±1	2.00	1.58	<5	0.49514	3.00	YES
	2.480	-1.992	0.63	-1±1	0.00	1.00	<5	0.31496	3.00	YES

BLE:2M

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	2.402	-1.701	0.68	-1±1	0.00	1.00	<5	0.30997	3.00	YES
	2.44	0.806	1.20	0±1	1.00	1.26	<5	0.39330	3.00	YES
	2.480	-2.671	0.54	-2±1	-1.00	0.79	<5	0.25018	3.00	YES

Conclusion:

For the max result : $1.56608 \leq \text{FCC Limit } 3.0$ for 1g SAR.