

FCC ID: 2A08ZWS-NKS8

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(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.

BR+EDR:

Antenna Type : LDS Antenna

Antenna Gain: 0.8 dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	1.87	1.538	2±1	3	1.995	<5	0.61847	3.00	YES
	2.441	2.29	1.694	2±1	3	1.995	<5	0.62347	3.00	YES
	2.480	2.08	1.614	2±1	3	1.995	<5	0.62843	3.00	YES
π/4-DQPSK	2.402	1.04	1.271	2±1	3	1.995	<5	0.61847	3.00	YES
	2.441	1.67	1.469	2±1	3	1.995	<5	0.62347	3.00	YES
	2.480	1.60	1.445	2±1	3	1.995	<5	0.62843	3.00	YES
8DPSK	2.402	0.79	1.199	1±1	2	1.585	<5	0.49127	3.00	YES
	2.441	1.43	1.390	1±1	2	1.585	<5	0.49524	3.00	YES
	2.480	1.41	1.384	1±1	2	1.585	<5	0.49918	3.00	YES

BLE:

Antenna Type : LDS Antenna

Antenna Gain: 0.8dBi

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	1g SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	4.66	2.924	4±1	5	3.162	<5	0.98020	3.00	YES
	2.44	4.56	2.858	4±1	5	3.162	<5	0.98793	3.00	YES
	2.480	4.10	2.570	4±1	5	3.162	<5	0.99599	3.00	YES

Conclusion:

For the max result : $0.99599 \leq 3.0$ for 1-g SAR, No SAR is required.

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Signature:

Date: 2018-10-26

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