

FCC ID: 2AJ90-SBK040C1

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.

BT:

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	3.49	2.23	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	5.61	3.64	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	6.14	4.11	6±1	7.00	5.01	<5	1.57854	3.00	YES
π/4-DQPSK	2.402	1.14	1.30	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	3.75	2.37	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	4.37	2.74	4±1	5.00	3.16	<5	0.99599	3.00	YES
8DPSK	2.402	1.65	1.46	1±1	2.00	1.58	<5	0.49127	3.00	YES
	2.441	4.2	2.63	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	4.84	3.05	4±1	5.00	3.16	<5	0.99599	3.00	YES

BLE:

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	5.17	3.29	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.440	6.44	4.41	6±1	7.00	5.01	<5	1.56576	3.00	YES
	2.480	6.84	4.83	6±1	7.00	5.01	<5	1.57854	3.00	YES

Conclusion:

For the max result : 1.5784W/Kg ≤ 3.0 for 1g SAR, No SAR is required.

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Signature:

Date: 2017-07-04

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