

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.

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	0.70	1.17	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	0.99	1.26	1±1	2	1.58	<5	0.49524	3.00	YES
	2.480	1.28	1.34	1±1	2	1.58	<5	0.49918	3.00	YES
π/4-DQPSK	2.402	1.59	1.44	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	1.87	1.54	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	2.09	1.62	2±1	3	2.00	<5	0.62843	3.00	YES
8-DPSK	2.402	1.98	1.58	2±1	3	2.00	<5	0.61847	3.00	YES
	2.441	2.24	1.67	2±1	3	2.00	<5	0.62347	3.00	YES
	2.480	2.49	1.77	2±1	3	2.00	<5	0.62843	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
BLE(1M)	2.402	0.78	1.20	1±1	2	1.58	<5	0.49127	3.00	YES
	2.440	1.01	1.26	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	1.19	1.32	1±1	2	1.58	<5	0.49918	3.00	YES
BLE(2M)	2.402	0.75	1.19	1±1	2	1.58	<5	0.49127	3.00	YES
	2.440	0.94	1.24	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	1.16	1.31	1±1	2	1.58	<5	0.49918	3.00	YES

Conclusion:

For the max result : $0.62843 \leq 3.0$ for 1g SAR, SAR is not required.

Signature:



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