

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: Left

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	5.41	3.48	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	4.44	2.78	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	5.134	3.26	5±1	6	3.98	<5	1.25388	3.00	YES
$\pi/4$ -DQPSK	2.402	8.336	6.82	8±1	9	7.94	<5	2.46216	3.00	YES
	2.441	7.405	5.50	8±1	9	7.94	<5	2.48207	3.00	YES
	2.480	8.094	6.45	8±1	9	7.94	<5	2.50182	3.00	YES
8-DPSK	2.402	9.041	8.02	8.5±1	9.5	8.91	<5	2.76259	3.00	YES
	2.441	8.136	6.51	8.5±1	9.5	8.91	<5	2.78493	3.00	YES
	2.480	8.808	7.60	8.5±1	9.5	8.91	<5	2.80709	3.00	YES

BLE:Left

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 (1M)	2.402	6.971	4.98	7±1	8	6.31	<5	1.95576	3.00	YES
	2.440	6.325	4.29	7±1	8	6.31	<5	1.97117	3.00	YES
	2.480	7.024	5.04	7±1	8	6.31	<5	1.98727	3.00	YES

BT: Right

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	5.372	3.45	5±1	6	3.98	<5	1.23400	3.00	YES
	2.441	4.341	2.72	5±1	6	3.98	<5	1.24398	3.00	YES
	2.480	4.74	2.98	5±1	6	3.98	<5	1.25388	3.00	YES
π/4-DQPSK	2.402	8.318	6.79	7.5±1	8.5	7.08	<5	2.19440	3.00	YES
	2.441	7.338	5.42	7.5±1	8.5	7.08	<5	2.21215	3.00	YES
	2.480	7.742	5.95	7.5±1	8.5	7.08	<5	2.22975	3.00	YES
8-DPSK	2.402	9.107	8.14	8.5±1	9.5	8.91	<5	2.76259	3.00	YES
	2.441	8.14	6.52	8.5±1	9.5	8.91	<5	2.78493	3.00	YES
	2.480	8.482	7.05	8.5±1	9.5	8.91	<5	2.80709	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 (1M)	2.402	7.126	5.16	7±1	8	6.31	<5	1.95576	3.00	YES
	2.440	6.377	4.34	7±1	8	6.31	<5	1.97117	3.00	YES
	2.480	7.064	5.09	7±1	8	6.31	<5	1.98727	3.00	YES

Conclusion:

For the max result : $2.80709 \leq 3.0$ for 1g SAR, No SAR is required.

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Signature:

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