

FCC ID: FPW-511AS

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	2.67	1.85	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	3.97	2.49	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	2.01	1.59	3±1	4.00	2.51	<5	0.79114	3.00	YES
π/4-DQPSK	2.402	1.88	1.54	2.5±1	3.50	2.24	<5	0.69393	3.00	YES
	2.441	3.18	2.08	2.5±1	3.50	2.24	<5	0.69954	3.00	YES
	2.480	1.29	1.35	2.5±1	3.50	2.24	<5	0.70511	3.00	YES
8DPSK	2.402	2.22	1.67	2.5±1	3.50	2.24	<5	0.69393	3.00	YES
	2.441	3.54	2.26	2.5±1	3.50	2.24	<5	0.69954	3.00	YES
	2.480	1.61	1.45	2.5±1	3.50	2.24	<5	0.70511	3.00	YES

BLE:

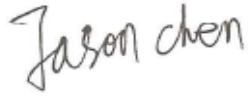
Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	-4.22	0.38	-4±1	-3.00	0.50	<5	0.15535	3.00	YES
	2.44	-3.27	0.47	-4±1	-3.00	0.50	<5	0.15658	3.00	YES
	2.480	-4.65	0.34	-4±1	-3.00	0.50	<5	0.15785	3.00	YES

WIFI:

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
802.11b	2.412	8.52	7.11	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.12	6.49	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	8.33	6.81	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.412	7.82	6.05	7.5±1	8.50	7.08	<5	2.19897	3.00	YES
	2.437	7.95	6.24	7.5±1	8.50	7.08	<5	2.21033	3.00	YES
	2.462	7.94	6.22	7.5±1	8.50	7.08	<5	2.22164	3.00	YES
802.11n20	2.412	7.35	5.43	7±1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.46	5.57	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.16	5.20	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11n40	2.422	7.20	5.25	7±1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.26	5.32	7±1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.12	5.15	7±1	8.00	6.31	<5	1.97601	3.00	YES

Conclusion:

For the max result : $2.49272 \leq 3.0$ for 1g SAR, No SAR is required.

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