

FCC ID: 2AWMZ-S15

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.

2.4G WiFi:

Antenna Type: Internal Antenna

Antenna Gain: 1dBi

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
802.11b	2.412	8.41	6.934	8±1	9.0	7.943	<5	2.46728	3.00	YES
	2.437	8.32	6.792	8±1	9.0	7.943	<5	2.48003	3.00	YES
	2.462	8.31	6.776	8±1	9.0	7.943	<5	2.49272	3.00	YES
802.11g	2.412	8.17	6.561	8±1	9.0	7.943	<5	2.46728	3.00	YES
	2.437	8.19	6.592	8±1	9.0	7.943	<5	2.48003	3.00	YES
	2.462	8.12	6.486	8±1	9.0	7.943	<5	2.49272	3.00	YES
802.11n20	2.412	8.04	6.368	8±1	9.0	7.943	<5	2.46728	3.00	YES
	2.437	8.18	6.577	8±1	9.0	7.943	<5	2.48003	3.00	YES
	2.462	8.15	6.531	8±1	9.0	7.943	<5	2.49272	3.00	YES
802.11n40	2.422	7.47	5.585	7±1	8.0	6.310	<5	1.96389	3.00	YES
	2.437	7.77	5.984	7±1	8.0	6.310	<5	1.96996	3.00	YES
	2.452	7.68	5.861	7±1	8.0	6.310	<5	1.97601	3.00	YES

BLE:

Antenna Type: Internal Antenna

Antenna Gain: 1dBi

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	4.48	2.805	5±1	6.0	3.981	<5	1.23400	3.00	YES
	2.44	4.767	2.997	5±1	6.0	3.981	<5	1.24373	3.00	YES
	2.480	4.644	2.913	5±1	6.0	3.981	<5	1.25388	3.00	YES

Conclusion:

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