

FCC ID: 2AXWA-R153

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:

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	7.184	5.23	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.442	7.823	6.06	8±1	9.00	7.94	<5	2.48258	3.00	YES
	2.462	7.345	5.43	8±1	9.00	7.94	<5	2.49272	3.00	YES
802.11g	2.402	6.856	4.85	7±1	8.00	6.31	<5	1.95576	3.00	YES
	2.441	6.414	4.38	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.480	6.515	4.48	7±1	8.00	6.31	<5	1.98727	3.00	YES
802.11n(HT20)	2.402	5.504	3.55	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	5.822	3.82	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	5.56	3.60	6±1	7.00	5.01	<5	1.57854	3.00	YES
802.11n(HT40)	2.402	5.764	3.77	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	5.907	3.90	6±1	7.00	5.01	<5	1.56608	3.00	YES
	2.480	5.257	3.36	6±1	7.00	5.01	<5	1.57854	3.00	YES

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	-3.665	0.43	-3±1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-3.527	0.44	-3±1	-2.00	0.63	<5	0.19716	3.00	YES
	2.480	-1.118	0.77	-1±1	0.00	1.00	<5	0.31496	3.00	YES
Pi/4 DQPSK	2.402	-0.842	0.82	0±1	1.00	1.26	<5	0.39023	3.00	YES
	2.441	2.775	1.89	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	2.384	1.73	3±1	4.00	2.51	<5	0.79114	3.00	YES
8DPSK	2.402	2.684	1.86	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	2.758	1.89	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	2.422	1.75	3±1	4.00	2.51	<5	0.79114	3.00	YES

Conclusion:

For the max result : $2.49272 \leq \text{FCC Limit } 3.0$ for 1g SAR.