

FCC ID: 2A49X-VGATEICAR

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
802.11b	2.412	7.3	5.37	7.5±0.5	8.00	6.31	<5	1.95983	3.00	YES
	2.44	7.22	5.27	7.5±0.5	8.00	6.31	<5	1.97117	3.00	YES
	2.462	7.35	5.43	7.5±0.5	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	6.58	4.55	7.0±0.5	7.50	5.62	<5	1.74670	3.00	YES
	2.44	6.58	4.55	7.0±0.5	7.50	5.62	<5	1.75681	3.00	YES
	2.462	6.81	4.80	7.0±0.5	7.50	5.62	<5	1.76471	3.00	YES
802.11n(HT20)	2.412	6.07	4.05	6.5±0.5	7.00	5.01	<5	1.55675	3.00	YES
	2.44	6.54	4.51	7.0±0.5	7.50	5.62	<5	1.75681	3.00	YES
	2.462	6.82	4.81	7.0±0.5	7.50	5.62	<5	1.76471	3.00	YES
802.11n(HT40)	2.412	5.61	3.64	6.0±0.5	6.50	4.47	<5	1.38745	3.00	YES
	2.44	5.22	3.33	5.5±0.5	6.00	3.98	<5	1.24373	3.00	YES
	2.462	5.28	3.37	5.5±0.5	6.00	3.98	<5	1.24932	3.00	YES

Conclusion:

For the max result : $1.98004\text{W/Kg} \leq \text{FCC Limit } 3.0$ for 1g SAR.