



FCC ID: 2AP9B-GAMESHELL

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-EDR

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	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	7.250	5.31	7±1	8.00	6.31	<5	1.95576	3.00	YES
	2.441	7.359	5.44	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.480	7.355	5.44	7±1	8.00	6.31	<5	1.98727	3.00	YES
Pi/4 DQPSK	2.402	4.495	2.82	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.441	4.068	2.55	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	4.272	2.67	4±1	5.00	3.16	<5	0.99599	3.00	YES
8DPSK	2.402	4.474	2.80	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.441	4.449	2.79	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	4.684	2.94	4±1	5.00	3.16	<5	0.99599	3.00	YES

WIFI:2.4G

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	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	9.13	8.18	9±0.5	9.50	8.91	<5	2.76834	3.00	YES
	2.437	9.12	8.16	9±0.5	9.50	8.91	<5	2.78264	3.00	YES
	2.462	9.35	8.62	9±0.5	9.50	8.91	<5	2.79688	3.00	YES
802.11g	2.412	8.29	6.75	8±0.5	8.50	7.08	<5	2.19897	3.00	YES
	2.437	8.43	6.96	8±0.5	8.50	7.08	<5	2.21033	3.00	YES
	2.462	8.75	7.50	8±0.5	8.50	7.08	<5	2.22164	3.00	YES
802.11n20	2.412	7.48	5.59	7±0.5	7.50	5.62	<5	1.74670	3.00	YES
	2.437	7.35	5.43	7±0.5	7.50	5.62	<5	1.75573	3.00	YES
	2.462	7.82	6.05	7±0.5	7.50	5.62	<5	1.76471	3.00	YES

Conclusion:

For the max result : $2.79688 \leq \text{FCC Limit } 3.0$ for 1g SAR.