

FCC ID: 2AKU5ZG02K

Portable device

According to §15.247(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 and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm

and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test

separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

WIFI 2.4G:

Transmit Frequency (GHz)	Mode	peak conducted output power (dBm)	tune up maximum power	Result calculation	1-g SAR
2412	802.11b	7.46	9	2.47	3
2437	802.11b	9.03	9.5	2.78	3
2462	802.11b	9.78	9.78	2.98	3
2412	802.11g	8.12	9	2.47	3
2437	802.11g	8.94	9.7	2.91	3
2462	802.11g	9.39	9.7	2.93	3
2412	802.11n(HT20)	8.52	9	2.47	3
2437	802.11n(HT20)	9.10	9.7	2.91	3
2462	802.11n(HT20)	9.52	9.7	2.93	3
2412	802.11n(HT40)	8.67	9	2.47	3
2437	802.11n(HT40)	9.30	9.7	2.91	3
2462	802.11n(HT40)	9.56	9.7	2.92	3

Conclusion:

For the max result : $2.98 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature:



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