

FCC ID: 2AKU5ZC08

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]^*$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(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 | 8.67 | 9 | 2.4673 | 3 |
| 2437 | 802.11b | 8.65 | 9 | 2.4800 | 3 |
| 2462 | 802.11b | 8.35 | 9 | 2.4927 | 3 |
| 2412 | 802.11g | 8.17 | 9 | 2.4673 | 3 |
| 2437 | 802.11g | 8.06 | 9 | 2.4800 | 3 |
| 2462 | 802.11g | 7.70 | 9 | 2.4927 | 3 |
| 2412 | 802.11n(HT20) | 8.08 | 9 | 2.4673 | 3 |
| 2437 | 802.11n(HT20) | 7.99 | 9 | 2.4800 | 3 |
| 2462 | 802.11n(HT20) | 7.56 | 9 | 2.4927 | 3 |
| 2422 | 802.11n(HT40) | 8.68 | 9 | 2.4724 | 3 |
| 2437 | 802.11n(HT40) | 8.92 | 9 | 2.4800 | 3 |
| 2452 | 802.11n(HT40) | 8.49 | 9 | 2.4877 | 3 |

Conclusion:

For the max result : $2.4927 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

Signature:



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