

**FCC ID: 2A5F4RH-M601**

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  $\leq 50$  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  $\leq 7.5$  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               | 7.25                   | 5.31                  | 7.5±0.5             | 8.00                    | 6.31                   | <5            | 1.95983            | 3.00                    | YES                |
|               | 2.44                | 7.81                   | 6.04                  | 8±0.5               | 8.50                    | 7.08                   | <5            | 2.21169            | 3.00                    | YES                |
|               | 2.462               | 7.79                   | 6.01                  | 8±0.5               | 8.50                    | 7.08                   | <5            | 2.22164            | 3.00                    | YES                |
| 802.11g       | 2.412               | 6.71                   | 4.69                  | 7±0.5               | 7.50                    | 5.62                   | <5            | 1.74670            | 3.00                    | YES                |
|               | 2.44                | 6.77                   | 4.75                  | 7±0.5               | 7.50                    | 5.62                   | <5            | 1.75681            | 3.00                    | YES                |
|               | 2.462               | 6.67                   | 4.65                  | 7±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                | 6.53                   | 4.50                  | 7±0.5               | 7.50                    | 5.62                   | <5            | 1.75681            | 3.00                    | YES                |
|               | 2.462               | 6.83                   | 4.82                  | 7±0.5               | 7.50                    | 5.62                   | <5            | 1.76471            | 3.00                    | YES                |
| 802.11n(HT40) | 2.422               | 5.55                   | 3.59                  | 6±0.5               | 6.50                    | 4.47                   | <5            | 1.39033            | 3.00                    | YES                |
|               | 2.44                | 5.58                   | 3.61                  | 6±0.5               | 6.50                    | 4.47                   | <5            | 1.39548            | 3.00                    | YES                |
|               | 2.452               | 5.85                   | 3.85                  | 6±0.5               | 6.50                    | 4.47                   | <5            | 1.39891            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $2.22164 \leq \text{FCC Limit } 3.0$  for 1g SAR.