

**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.

**WIFI:**

| Modulation     | Channel Freq. (GHz) | Conducted power (dBm) | Conducted 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               | 8.13                  | 6.50                 | 8±1                 | 9                       | 7.94                   | <5            | 2.46728            | 3.00                    | YES                |
|                | 2.437               | 9.46                  | 8.83                 | 8.5±1               | 9.5                     | 8.91                   | <5            | 2.78264            | 3.00                    | YES                |
|                | 2.462               | 7.5                   | 5.62                 | 7±1                 | 8                       | 6.31                   | <5            | 1.98004            | 3.00                    | YES                |
| 802.11g        | 2.412               | 7.04                  | 5.06                 | 7±1                 | 8                       | 6.31                   | <5            | 1.95983            | 3.00                    | YES                |
|                | 2.437               | 8.37                  | 6.87                 | 8±1                 | 9                       | 7.94                   | <5            | 2.48003            | 3.00                    | YES                |
|                | 2.462               | 6.71                  | 4.69                 | 7±1                 | 8                       | 6.31                   | <5            | 1.98004            | 3.00                    | YES                |
| 802.11n(HT 20) | 2.412               | 7.01                  | 5.02                 | 7±1                 | 8                       | 6.31                   | <5            | 1.95983            | 3.00                    | YES                |
|                | 2.437               | 8.21                  | 6.62                 | 8±1                 | 9                       | 7.94                   | <5            | 2.48003            | 3.00                    | YES                |
|                | 2.462               | 6.56                  | 4.53                 | 6±1                 | 7                       | 5.01                   | <5            | 1.57280            | 3.00                    | YES                |
| 802.11n(HT 40) | 2.412               | 6.48                  | 4.45                 | 6±1                 | 7                       | 5.01                   | <5            | 1.55675            | 3.00                    | YES                |
|                | 2.437               | 7.87                  | 6.12                 | 8±1                 | 9                       | 7.94                   | <5            | 2.48003            | 3.00                    | YES                |
|                | 2.462               | 6.65                  | 4.62                 | 6±1                 | 7                       | 5.01                   | <5            | 1.57280            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $2.78264 \leq 3.0$  for 1g SAR, SAR is not required.

**Signature**  :  
2021-10-29

**Date:**

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