



FCC ID:2AUCA8TM-1B

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:

| 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 |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK | 2.402 | 1.94 | 1.56 | 2±1 | 3.00 | 2.00 | <5 | 0.61847 | 3.00 | YES |
| | 2.441 | 2.43 | 1.75 | 2±1 | 3.00 | 2.00 | <5 | 0.62347 | 3.00 | YES |
| | 2.480 | 1.94 | 1.56 | 2±1 | 3.00 | 2.00 | <5 | 0.62843 | 3.00 | YES |
| Pi/4 DQPSK | 2.402 | 3.25 | 2.11 | 3±1 | 4.00 | 2.51 | <5 | 0.77860 | 3.00 | YES |
| | 2.441 | 3.61 | 2.30 | 3±1 | 4.00 | 2.51 | <5 | 0.78490 | 3.00 | YES |
| | 2.480 | 3.12 | 2.05 | 3±1 | 4.00 | 2.51 | <5 | 0.79114 | 3.00 | YES |
| 8DPSK | 2.402 | 3.46 | 2.22 | 4±1 | 5.00 | 3.16 | <5 | 0.98020 | 3.00 | YES |
| | 2.441 | 3.87 | 2.44 | 4±1 | 5.00 | 3.16 | <5 | 0.98813 | 3.00 | YES |
| | 2.480 | 3.72 | 2.36 | 4±1 | 5.00 | 3.16 | <5 | 0.99599 | 3.00 | YES |

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 | 8.43 | 6.97 | 8±1 | 9.00 | 7.94 | <5 | 2.46728 | 3.00 | YES |
| | 2.437 | 8.21 | 6.62 | 8±1 | 9.00 | 7.94 | <5 | 2.48003 | 3.00 | YES |
| | 2.462 | 8.24 | 6.67 | 8±1 | 9.00 | 7.94 | <5 | 2.49272 | 3.00 | YES |
| 802.11g | 2.412 | 8.1 | 6.46 | 8±1 | 9.00 | 7.94 | <5 | 2.46728 | 3.00 | YES |
| | 2.437 | 7.97 | 6.27 | 8±1 | 9.00 | 7.94 | <5 | 2.48003 | 3.00 | YES |
| | 2.462 | 7.77 | 5.98 | 8±1 | 9.00 | 7.94 | <5 | 2.49272 | 3.00 | YES |
| 802.11n20 | 2.412 | 7.76 | 5.97 | 7±1 | 8.00 | 6.31 | <5 | 1.95983 | 3.00 | YES |
| | 2.437 | 7.45 | 5.56 | 7±1 | 8.00 | 6.31 | <5 | 1.96996 | 3.00 | YES |
| | 2.462 | 7.46 | 5.57 | 7±1 | 8.00 | 6.31 | <5 | 1.98004 | 3.00 | YES |
| 802.11n40 | 2.422 | 7.28 | 5.35 | 7±1 | 8.00 | 6.31 | <5 | 1.96389 | 3.00 | YES |
| | 2.437 | 7.33 | 5.41 | 7±1 | 8.00 | 6.31 | <5 | 1.96996 | 3.00 | YES |
| | 2.452 | 7.19 | 5.24 | 7±1 | 8.00 | 6.31 | <5 | 1.97601 | 3.00 | YES |

Conclusion:

For the max result : 2.49272W/Kg ≤ FCC Limit 3.0 for 1g SAR.