

FCC ID:2BDM8-X27

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.

EDR:

| 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 | 4.898 | 3.09 | 4±1 | 5.00 | 3.16 | <5 | 0.98020 | 3.00 | YES |
| | 2.441 | 5.467 | 3.52 | 5±1 | 6.00 | 3.98 | <5 | 1.24398 | 3.00 | YES |
| | 2.480 | 4.263 | 2.67 | 4±1 | 5.00 | 3.16 | <5 | 0.99599 | 3.00 | YES |
| π /4DQPSK | 2.402 | 5.216 | 3.32 | 5±1 | 6.00 | 3.98 | <5 | 1.23400 | 3.00 | YES |
| | 2.441 | 5.755 | 3.76 | 5±1 | 6.00 | 3.98 | <5 | 1.24398 | 3.00 | YES |
| | 2.480 | 4.515 | 2.83 | 4±1 | 5.00 | 3.16 | <5 | 0.99599 | 3.00 | YES |
| 8DQPSK | 2.402 | 5.351 | 3.43 | 5±1 | 6.00 | 3.98 | <5 | 1.23400 | 3.00 | YES |
| | 2.441 | 5.878 | 3.87 | 5±1 | 6.00 | 3.98 | <5 | 1.24398 | 3.00 | YES |
| | 2.480 | 4.633 | 2.91 | 4±1 | 5.00 | 3.16 | <5 | 0.99599 | 3.00 | YES |

BLE:1M

| 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 | 5.144 | 3.27 | 5±1 | 6.00 | 3.98 | <5 | 1.23400 | 3.00 | YES |
| | 2.44 | 5.78 | 3.78 | 5±1 | 6.00 | 3.98 | <5 | 1.24373 | 3.00 | YES |
| | 2.480 | 4.735 | 2.98 | 4±1 | 5.00 | 3.16 | <5 | 0.99599 | 3.00 | YES |

Conclusion:

For the max result : $1.24398 \leq$ FCC Limit 3.0 for 1g SAR.