

**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.

**BT:**

| Test Mode      | Channel Frequency (GHz) | Conducted power (dBm) | Conducted power (mW) | Max tune-up power (dBm) | Max tune-up power (mW) | Distance (mm) | Result calculation | SAR Exclusion threshold | SAR test exclusion |
|----------------|-------------------------|-----------------------|----------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK           | 2.402                   | 4.74                  | 2.98                 | 6.50                    | 4.47                   | 5.00          | 1.385              | 3.00                    | Yes                |
|                | 2.441                   | 6.02                  | 4.00                 | 6.50                    | 4.47                   | 5.00          | 1.396              | 3.00                    | Yes                |
|                | 2.480                   | 5.37                  | 3.44                 | 6.50                    | 4.47                   | 5.00          | 1.407              | 3.00                    | Yes                |
| $\pi/4$ -DQPSK | 2.402                   | 5.01                  | 3.17                 | 7.00                    | 5.01                   | 5.00          | 1.554              | 3.00                    | Yes                |
|                | 2.441                   | 6.60                  | 4.57                 | 7.00                    | 5.01                   | 5.00          | 1.566              | 3.00                    | Yes                |
|                | 2.480                   | 5.93                  | 3.92                 | 7.00                    | 5.01                   | 5.00          | 1.579              | 3.00                    | Yes                |
| 8-DPSK         | 2.402                   | 5.23                  | 3.33                 | 7.00                    | 5.01                   | 5.00          | 1.554              | 3.00                    | Yes                |
|                | 2.441                   | 6.80                  | 4.79                 | 7.00                    | 5.01                   | 5.00          | 1.566              | 3.00                    | Yes                |
|                | 2.480                   | 6.06                  | 4.04                 | 7.00                    | 5.01                   | 5.00          | 1.579              | 3.00                    | Yes                |

**BLE:**

| Test Mode | Channel Frequency (GHz) | Conducted power (dBm) | Conducted power (mW) | Max tune-up power (dBm) | Max tune-up power (mW) | Distance (mm) | Result calculation | SAR Exclusion threshold | SAR test exclusion |
|-----------|-------------------------|-----------------------|----------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| BLE(1M)   | 2.402                   | 6.72                  | 4.70                 | 7.00                    | 5.01                   | 5.00          | 1.554              | 3.00                    | Yes                |
|           | 2.440                   | 6.26                  | 4.23                 | 7.00                    | 5.01                   | 5.00          | 1.566              | 3.00                    | Yes                |
|           | 2.480                   | 6.42                  | 4.39                 | 7.00                    | 5.01                   | 5.00          | 1.579              | 3.00                    | Yes                |

**Conclusion:**

For the max result :  $1.579 \leq \text{FCC Limit } 3.0$  for 1g SAR.