

**FCC ID: 2A9J2AI6001**

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.

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               | -1.616                 | 0.69                  | -1±1                | 0.00                    | 1.00                   | <5            | 0.30997            | 3.00                    | YES                |
|               | 2.441               | -1.009                 | 0.79                  | -1±1                | 0.00                    | 1.00                   | <5            | 0.31247            | 3.00                    | YES                |
|               | 2.480               | -0.573                 | 0.88                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39651            | 3.00                    | YES                |
| $\pi$ /4DQPSK | 2.402               | -0.799                 | 0.83                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39023            | 3.00                    | YES                |
|               | 2.441               | -0.228                 | 0.95                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39338            | 3.00                    | YES                |
|               | 2.480               | 0.23                   | 1.05                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39651            | 3.00                    | YES                |
| 8DQPSK        | 2.402               | -0.394                 | 0.91                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39023            | 3.00                    | YES                |
|               | 2.441               | 0.228                  | 1.05                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39338            | 3.00                    | YES                |
|               | 2.480               | 0.653                  | 1.16                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39651            | 3.00                    | YES                |

BLE:

| 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               | -1.605                 | 0.69                  | -1±1                | 0.00                    | 1.00                   | <5            | 0.30997            | 3.00                    | YES                |
|            | 2.44                | -0.918                 | 0.81                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39330            | 3.00                    | YES                |
|            | 2.480               | -0.495                 | 0.89                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39651            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.39651 \leq$  FCC Limit 3.0 for 1g SAR.