

**FCC ID:2ALCFAU048**

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) | 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 |
|---------------|---------------------|-----------------------|----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK          | 2.402               | -2.293                | 0.59                 | -2±1                | -1.00                   | 0.79                   | <5            | 0.24622            | 3.00                    | YES                |
|               | 2.441               | -2.818                | 0.52                 | -2±1                | -1.00                   | 0.79                   | <5            | 0.24821            | 3.00                    | YES                |
|               | 2.480               | -4.677                | 0.34                 | -4±1                | -3.00                   | 0.50                   | <5            | 0.15785            | 3.00                    | YES                |
| $\pi$ /4DQPSK | 2.402               | -1.464                | 0.71                 | -1±1                | 0.00                    | 1.00                   | <5            | 0.30997            | 3.00                    | YES                |
|               | 2.441               | -1.996                | 0.63                 | -1±1                | 0.00                    | 1.00                   | <5            | 0.31247            | 3.00                    | YES                |
|               | 2.480               | -3.885                | 0.41                 | -3±1                | -2.00                   | 0.63                   | <5            | 0.19873            | 3.00                    | YES                |
| 8DQPSK        | 2.402               | -1.047                | 0.79                 | -1±1                | 0.00                    | 1.00                   | <5            | 0.30997            | 3.00                    | YES                |
|               | 2.441               | -1.605                | 0.69                 | -1±1                | 0.00                    | 1.00                   | <5            | 0.31247            | 3.00                    | YES                |
|               | 2.480               | -3.472                | 0.45                 | -3±1                | -2.00                   | 0.63                   | <5            | 0.19873            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.31247 \leq \text{FCC Limit } 3.0$  for 1g SAR.