



**FCC ID:2ALN9-TW76**

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  $\leq 7.5$  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:

| 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               | 3.16                  | 2.07                 | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|            | 2.441               | 2.41                  | 1.74                 | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62347            | 3.00                    | YES                |
|            | 2.480               | 1.61                  | 1.45                 | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49918            | 3.00                    | YES                |
| Pi/4 DQPSK | 2.402               | 3.11                  | 2.05                 | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|            | 2.441               | 2.55                  | 1.80                 | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62347            | 3.00                    | YES                |
|            | 2.480               | 1.67                  | 1.47                 | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49918            | 3.00                    | YES                |
| 8DPSK      | 2.402               | 3.11                  | 2.05                 | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|            | 2.441               | 2.53                  | 1.79                 | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62347            | 3.00                    | YES                |
|            | 2.480               | 1.65                  | 1.46                 | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49918            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.77860\text{W/Kg} \leq \text{FCC Limit } 3.0$  for 1g SAR.