

**FCC ID: 2AFM7WI-GHTWS20X**

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:

| 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 calculatio n | SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|-------------------------|--------------------|
| GFSK       | 2.402               | -4.464                 | 0.36                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15535             | 3.00                    | YES                |
|            | 2.44                | -4.998                 | 0.32                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15658             | 3.00                    | YES                |
|            | 2.480               | -1.368                 | 0.73                  | -1±1                | 0.00                    | 1.00                   | <5            | 0.31496             | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.31496\text{W/Kg} \leq \text{FCC Limit } 3.0$  for 1g SAR.

BT:

| 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 calculatio n | SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|-------------------------|--------------------|
| GFSK       | 2.402               | 2.339                  | 1.71                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860             | 3.00                    | YES                |
|            | 2.44                | 1.857                  | 1.53                  | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62334             | 3.00                    | YES                |
|            | 2.480               | 2.789                  | 1.90                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.79114             | 3.00                    | YES                |
| Pi/4 DQPSK | 2.402               | 2.215                  | 1.67                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860             | 3.00                    | YES                |
|            | 2.441               | 1.696                  | 1.48                  | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62347             | 3.00                    | YES                |
|            | 2.480               | 2.582                  | 1.81                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.79114             | 3.00                    | YES                |
| 8DPSK      | 2.402               | 2.121                  | 1.63                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860             | 3.00                    | YES                |
|            | 2.441               | 1.613                  | 1.45                  | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62347             | 3.00                    | YES                |
|            | 2.480               | 2.581                  | 1.81                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.79114             | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.79114\text{W/Kg} \leq \text{FCC Limit } 3.0$  for 1g SAR.