

FCC ID: 2AS62-WEP0RT1

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 ≤ 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 calculation | SAR Exclusion threshold | SAR test exclusion |
|-----------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK Left | 2.402 | 6.056 | 4.03 | 7±1 | 8 | 6.31 | <5 | 1.95576 | 3.00 | YES |
| | 2.44 | 7.062 | 5.08 | 7±1 | 8 | 6.31 | <5 | 1.97117 | 3.00 | YES |
| | 2.48 | 7.379 | 5.47 | 7±1 | 8 | 6.31 | <5 | 1.98727 | 3.00 | YES |
| GFSK Right | 2.402 | 6.086 | 4.06 | 7±1 | 8 | 6.31 | <5 | 1.95576 | 3.00 | YES |
| | 2.44 | 7.098 | 5.13 | 7±1 | 8 | 6.31 | <5 | 1.97117 | 3.00 | YES |
| | 2.48 | 7.578 | 5.73 | 7±1 | 8 | 6.31 | <5 | 1.98727 | 3.00 | YES |
| π/4-DQPSK Left | 2.402 | 5.98 | 3.96 | 6.5±1 | 7.5 | 5.62 | <5 | 1.74308 | 3.00 | YES |
| | 2.44 | 7.045 | 5.06 | 6.5±1 | 7.5 | 5.62 | <5 | 1.75681 | 3.00 | YES |
| | 2.48 | 7.361 | 5.45 | 6.5±1 | 7.5 | 5.62 | <5 | 1.77115 | 3.00 | YES |
| π/4-DQPSK Right | 2.402 | 6.02 | 4.00 | 6.5±1 | 7.5 | 5.62 | <5 | 1.74308 | 3.00 | YES |
| | 2.44 | 7.071 | 5.09 | 6.5±1 | 7.5 | 5.62 | <5 | 1.75681 | 3.00 | YES |
| | 2.48 | 7.384 | 5.48 | 6.5±1 | 7.5 | 5.62 | <5 | 1.77115 | 3.00 | YES |
| 8-DPSK Left | 2.402 | 5.936 | 3.92 | 6.5±1 | 7.5 | 5.62 | <5 | 1.74308 | 3.00 | YES |
| | 2.44 | 7.107 | 5.14 | 6.5±1 | 7.5 | 5.62 | <5 | 1.75681 | 3.00 | YES |
| | 2.48 | 7.406 | 5.50 | 6.5±1 | 7.5 | 5.62 | <5 | 1.77115 | 3.00 | YES |
| 8-DPSK Right | 2.402 | 6.03 | 4.01 | 6.5±1 | 7.5 | 5.62 | <5 | 1.74308 | 3.00 | YES |
| | 2.44 | 7.117 | 5.15 | 6.5±1 | 7.5 | 5.62 | <5 | 1.75681 | 3.00 | YES |
| | 2.48 | 7.404 | 5.50 | 6.5±1 | 7.5 | 5.62 | <5 | 1.77115 | 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 Left | 2.402 | 3.090 | 2.04 | 4±1 | 5 | 3.16 | <5 | 0.98020 | 3.00 | YES |
| | 2.44 | 4.302 | 2.69 | 4±1 | 5 | 3.16 | <5 | 0.98793 | 3.00 | YES |
| | 2.480 | 4.970 | 3.14 | 4±1 | 5 | 3.16 | <5 | 0.99599 | 3.00 | YES |
| GFSK Right | 2.402 | 3.087 | 2.04 | 4±1 | 5 | 3.16 | <5 | 0.98020 | 3.00 | YES |
| | 2.44 | 4.305 | 2.69 | 4±1 | 5 | 3.16 | <5 | 0.98793 | 3.00 | YES |
| | 2.480 | 4.970 | 3.14 | 4±1 | 5 | 3.16 | <5 | 0.99599 | 3.00 | YES |

Conclusion:

For the max result : $1.98727\text{W/Kg} \leq 3.0$ for 1g SAR, No SAR is required.

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