

FCC ID: 2AYBCT101

Portable device

According to §47 C.F.R. and §2.1093, 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [f(\text{GHz})/x] \text{ W/kg}$, for test separation distances \leq 50 mm,

Where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR

- $f(\text{GHz})$ 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 and $x = 7.5$ for 1-g SAR is applied to determine SAR test exclusion.

BT-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 |
|------------|---------------------|-----------------------|----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| 8DPSK | 2.441 | 1.88 | 1.54 | 1±1 | 2.00 | 1.58 | <5 | 0.06603 | 0.40 | YES |

2.4G-WIFI

| 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 |
|------------|---------------------|-----------------------|----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| 802.11b | 2.412 | 7.89 | 6.15 | 7±1 | 8.00 | 6.31 | <5 | 0.26131 | 0.40 | YES |

For the Max simultaneous transmission

| Evaluation mode | Result calculation | Total Result calculation | SAR Exclusion threshold | Result |
|-----------------|--------------------|--------------------------|-------------------------|--------|
| 2.4G-WIFI | 0.26131 | 0.32734 | 0.4 | Pass |
| BT | 0.06603 | | | |

Conclusion:

For the max result : $0.38637 < 0.4$, the SAR testing is not required.