

FCC ID: 2A2KM-HDT101

Portable device

According to §15.247(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 and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot$$

$$\left[\sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm

and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.

The max conducted power is 0.62 dBm including tune-up tolerance is 2 dBm (1.58mW).

$$\left[\frac{\text{max.power of channel, mw}}{\text{min. test separation distance, mm}} \right] \left[\sqrt{f(\text{GHz})} \right]$$

$$= 1.58/5 \cdot \left(\sqrt{2.402} \right) = 0.49 < 3.0$$

Conclusion:

For the max result : $0.49 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.