

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.

| 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 |
|-------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|
| 802.11b     | 2.412               | 7.88                   | 6.14                  | 8±1                 | 9                       | 7.94                   | <5            | 2.46728            | 3.00                    |
|             | 2.437               | 7.53                   | 5.66                  | 8±1                 | 9                       | 7.94                   | <5            | 2.48003            | 3.00                    |
|             | 2.462               | 7.24                   | 5.30                  | 8±1                 | 9                       | 7.94                   | <5            | 2.49272            | 3.00                    |
| 802.11g     | 2.412               | 7.93                   | 6.21                  | 8±1                 | 9                       | 7.94                   | <5            | 2.46728            | 3.00                    |
|             | 2.437               | 7.32                   | 5.40                  | 8±1                 | 9                       | 7.94                   | <5            | 2.48003            | 3.00                    |
|             | 2.462               | 7.98                   | 6.28                  | 8±1                 | 9                       | 7.94                   | <5            | 2.49272            | 3.00                    |
| 802.11n H20 | 2.412               | 7.76                   | 5.97                  | 8±1                 | 9                       | 7.94                   | <5            | 2.46728            | 3.00                    |
|             | 2.437               | 7.77                   | 5.98                  | 8±1                 | 9                       | 7.94                   | <5            | 2.48003            | 3.00                    |
|             | 2.462               | 6.97                   | 4.98                  | 7.5±1               | 8.5                     | 7.08                   | <5            | 2.22164            | 3.00                    |
| 802.11n H40 | 2.412               | 7.21                   | 5.26                  | 8±1                 | 9                       | 7.94                   | <5            | 2.46728            | 3.00                    |
|             | 2.437               | 7.67                   | 5.85                  | 8±1                 | 9                       | 7.94                   | <5            | 2.48003            | 3.00                    |
|             | 2.462               | 7.82                   | 6.05                  | 8±1                 | 9                       | 7.94                   | <5            | 2.49272            | 3.00                    |

### Conclusion:

For the max result :  $2.49272 \leq 3.0$  for 1g SAR, SAR is not required.



Signature:

Date: 2024-08-20

**NAME AND TITLE** (Please print or type): Alex li /Manager

**COMPANY** (Please print or type): Shenzhen NTEK Testing Technology Co., Ltd./ 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China.