FCC ID: SMQAX3EDAN 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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(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 \leq 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.

For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

- 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm) * (f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
- 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm) * 10]} mW, for > 1500 MHz and \leq 6 GHz

For the WIFI the test minimum separation is 330mm (see the following page photo)

Two WIFI antennas cannot be sent at the same time

Maximum measured transmitter power:

WIFI: 2400MHz-2483.5MHz Antenna 1:

| | Channel Freq. (MHz) | Max Transmit Power (dBm) | Max tune- up power (dBm) | Result calculation | Exclusion threshold at 330mm (mW) |
|-------------------|---------------------|--------------------------------|--------------------------------|--------------------|---|
| 802.11b | 2412 | 17.00 | 18 | 63.10 | 2802 |
| | 2437 | 17.01 | 18 | 63.10 | 2802 |
| | 2462 | 17.19 | 18 | 63.10 | 2802 |
| 802.11g | 2412 | 15.65 | 16 | 39.81 | 2801 |
| | 2437 | 15.32 | 16 | 39.81 | 2801 |
| | 2462 | 15.12 | 16 | 39.81 | 2801 |
| 802.11n (HT20) | 2412 | 15.21 | 16 | 39.81 | 2801 |
| | 2437 | 15.22 | 16 | 39.81 | 2801 |
| | 2462 | 15.06 | 16 | 39.81 | 2801 |

Antenna 2:

| | Channel Freq. (MHz) | Max Transmit Power (dBm) | Max tune- up power (dBm) | Result calculation | Exclusion threshold at 330mm (mW) |
|-------------------|---------------------|--------------------------------|--------------------------------|--------------------|---|
| 802.11b | 2412 | 16.86 | 17 | 50.12 | 2802 |
| | 2437 | 16.95 | 17 | 50.12 | 2802 |
| | 2462 | 17.01 | 18 | 63.10 | 2802 |
| 802.11g | 2412 | 15.53 | 16 | 39.81 | 2801 |
| | 2437 | 15.28 | 16 | 39.81 | 2801 |
| | 2462 | 15.22 | 16 | 39.81 | 2801 |
| 802.11n (HT20) | 2412 | 15.10 | 16 | 39.81 | 2801 |
| | 2437 | 15.22 | 16 | 39.81 | 2801 |
| | 2462 | 15.08 | 16 | 39.81 | 2801 |

Conclusion:

No SAR is required.

