

FCC ID : Q6I-SM708

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 KDB 447498 (2)(a)(i)

| Frequency Range | | Maximum measured transmitter power frequency (MHz) | 60/f SAR Limitation (mW) |
|---------------------|---------------------|--|--------------------------|
| Low Frequency (MHz) | High Frequency(MHz) | | |
| 2412 | 2462 | 2462 | 24.4 |

Maximum measured transmitter power

| Conducted Power (mw) | Max Antenna Gain (dBi) | EIRP (mW) |
|----------------------|------------------------|-----------|
| 9.20 | 2.5 | 16.376 |

Remark: The best case gain of the antenna is 2.5dBi.

2.5dBi logarithmic terms convert to numeric result is nearly 1.78

According to the formula. calculate the EIRP test result:

$$\text{EIRP} = P \times G = 9.20 \times 1.78 = 16.376$$

Threshold at which no SAR required is 24.4mW.

Maximum TX power is 16.376mw.

Conclusion: No SAR is required.

SIMULTANEOUS TRANSMISSION EVALUATION

N/A

Wifi Mode (802.11N40)

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 KDB 447498 (2)(a)(i)

| Frequency Range | | Maximum measured transmitter power frequency (MHz) | 60/f SAR Limitation (mW) |
|---------------------|---------------------|--|--------------------------|
| Low Frequency (MHz) | High Frequency(MHz) | | |
| 2422 | 2452 | 2452 | 24.5 |

Maximum measured transmitter power

| Conducted Power (mw) | Max Antenna Gain (dBi) | EIRP (mW) |
|----------------------|------------------------|-----------|
| 8.07 | 2.5 | 14.3646 |

Remark: The best case gain of the antenna is 2.5dBi.

2.5dBi logarithmic terms convert to numeric result is nearly 1.78

According to the formula, calculate the EIRP test result:

$$\text{EIRP} = P \times G = 8.07 \times 1.78 = 14.3646$$

Threshold at which no SAR required is 24.5mW.

Maximum TX power is 14.3646mw.

Conclusion: No SAR is required.

SIMULTANEOUS TRANSMISSION EVALUATION

N/A