

MPE CALCULATION

FCC ID: S9GH510

RF Exposure Requirements:

47 CFR §1.1307(b)

RF Radiation Exposure Limits:

47 CFR §1.1310

RF Radiation Exposure Guidelines:

FCC OST/OET Bulletin Number 65

EUT Frequency Band: 2.4 GHz

2412- 2462MHz, 2422-2452MHz

EUT Frequency Band: 5 GHz

5180- 5320MHz, 5500-5720MHz, 5745-5825MHz

5210-5290MHz, 5530-5610MHz, 5690-5775MHz

Limits for General Population/Uncontrolled Exposure in the band of:

1500 - 100,000 MHz

Power Density Limit:

1 mW / cm²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Prediction distance 20cm

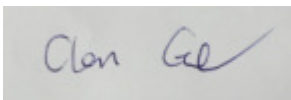
EUT: H510 Access Point

Type	CH Freq (MHz)	Conducted Power	Antenna Gain (dBi)	Apparent Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement distance (cm)	Calculated MPE (W/m2)	MPE Limit (W/m2)
2.4GHz WLAN	2437	24.12	0	0	±1dB	25.12	20	0.647	10
5GHz WLAN	5825	23.43	1	1	±1dB	24.43	20	0.694	10

Total Ratio= $(P_{2.4GHz}/1) + (P_{5GHzUNII}/1) = 0.647 \text{ mW/ cm}^2 + 0.694 \text{ mW/ cm}^2 = 1.341 \text{ mW/ cm}^2$

The Above Result had shown that the Device complied with MPE requirement.

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