

MPE CALCULATION

FCC ID: S9GT310

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: 2.4GHz 2412-2462 MHz
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

EUT: T310 (C/D) Access Point, Model No. : T310

(2.4GHz Band): Power = 24.84 dBm, Antenna Gain = 2.5 dBi, Power density = 0.108 mW/ cm²

(5 GHz Band): Power = 24.75 dBm, Antenna Gain = 3.5 dBi, Power density = 0.133 mW/ cm²

| Type | CH Freq (MHz) | Conducted Power (dBm) | Antenna Gain (dBi) | Directional Gain (dBi) | Tune-Up Tolerance | Tolerance Max Power (dBm) | Measurement Distance (cm) | Calculated MPE (mW/cm ²) | MPE Limit (mW/cm ²) | Pass/Fail |
|--------------|---------------|-----------------------|--------------------|------------------------|-------------------|---------------------------|---------------------------|--------------------------------------|---------------------------------|-----------|
| 2.4 GHz WLAN | 2412 | 24.84 | 2.5 | 2.5 | ±1dB | 25.84 | 20 | 0.108 | 1 | Pass |
| 5 GHz WLAN | 5755 | 24.75 | 3.5 | 3.5 | ±1dB | 25.75 | 20 | 0.133 | 1 | Pass |

If 2.4GHz and 5GHz transmit simultaneously.

Total MPE=0.108 + 0.133 = 0.241 mW/cm²

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

Completed By: Cipher



SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

Date: October 13, 2017