

MPE CALCULATION

FCC ID: S9GT610

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|---|---|
| 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 / cm ² |

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: ZoneFlex T610s Access Point, model: T610s

(2.4GHz Band): Power = 26.67 dBm, Array Gain + Antenna Gain = 9 dBi, Power density = 0.470 mW/ cm²

(5 GHz Band): Power = 24.12 dBm, Array Gain + Antenna Gain = 11 dBi, Power density = 0.414 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 | 2437 | 26.67 | 6 | 9 | ±1dB | 27.67 | 25 | 0.470 | 1 | Pass |
| 5 GHz WLAN | 5775 | 24.12 | 8 | 11 | ±1dB | 25.12 | 25 | 0.414 | 1 | Pass |

If 2.4GHz and 5GHz transmit simultaneously.

Total MPE=0.470+ 0.414 =0.884 mW/cm²

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

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Date: October 21, 2015

