

MPE CALCULATION

FCC ID: S9GT610

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: 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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