MPE CALCULATION

FCC ID: N6C-SXPCEAC2

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: 2.4G	2412-2462MHz
EUT Frequency Band: 5G	5180- 5320MHz, 5500-5720MHz, 5745-5825MHz 5210-5290MHz, 5530-5610MHz, 5690-5775MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300-1500MHz, 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

Model No.: SX-PCEAC2

Screw Mount Omni-Directional Antenna

Prediction distance 20cm

(WLAN 2.4GHz): Power = 26.86 dBm, Directional Antenna Gain = 7.57 dBi, Power density = 0.695 mW/cm^2

(WLAN 5GHz): Power = 19.03 dBm, Directional Antenna Gain = 4.97 dBi, Power density = 0.063 mW/cm^2

Type	Freq (MHz)	Conducted Power (dBm)	MIMO1 Antenna Gain (dBi)	MIMO2 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
WLAN 2.4GHz	2462	26.86	3.5	5.5	7.57	±1dB	27.86	20	0.695	1	Pass
WLAN 5GHz	5180	19.03	1.6	2.3	4.97	±1dB	20.03	20	0.063	1	Pass

The Above Result had shown that the device complied with MPE requirement at a prediction distance of 20cm.

Completed By: Deon Dai

SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

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