

MPE CALCULATION
FCC ID: F4AWSM2400

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:	2405 - 2475 MHz
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

Prediction distance 20cm

EUT: Zigbee

(2.4GHz Band): Power = 6.45 dBm, Antenna Gain = 3.8 dBi, Power density = 0.002108mW/ cm²

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

Completed By: Gary Chou

Gary Chou

SIEMIC, Inc.
775 Montague Expressway, Milpitas, CA 95035
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