

MPE CALCULATION

FCC ID: 2ALLL242A

RF Exposure Requirements:
RF Radiation Exposure Limits:
RF Radiation Exposure Guidelines:

47 CFR §1.1307(b)
47 CFR §1.1310
FCC OST/OET Bulletin Number 65

EUT Frequency Band:

24075 - 24175 MHz ,

Limits for General Population/Uncontrolled Exposure in the band of:

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: Radar Sensor , Model No.: OPS-242A

Antenna Type: Patch

Prediction distance 20cm

Power = 2.20 dBm, Antenna Gain = 7 dBi, Power density = 0.002084 mW/cm²

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm ²)	MPE Limit (mW/cm ²)	Pass/Fail
Radar	24125	2.20	7	±1dB	3.20	20	0.002084	1	Pass

The Above Result had shown that the Device complied with MPE requirement at 20 cm measurement distance.



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