MPE CALCULATION

For Applied Wireless ID – RFID Reader Module; Model MPR-1510R3.2E
        FCC ID:OGSM32EA; IC ID: 6449A-M32EA

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: 902 – 928 MHz

EUT Maximum Measured Conducted Power: 25.83 dBm (0.3828 watt)

EUT Antenna Gain: 10 dBi (10 numeric)

Limits for General Population/Uncontrolled Exposure: f/1500; f (frequency) in MHz
        Power Density Limit: $902 / 1500 = 0.601$ mW/cm^2 or 6.01 W/m^2

Equation: $S = PG / 4\pi R^2$ or $R = \surd PG / 4\pi S$

        Where, S = Power Density

                P = Power Input to Antenna

                G = Antenna Gain

                R = distance to the center of radiated antenna

$R = \surd 0.3828W*10 / 4*3.14*(6.01$ W/m$^2) = \surd 3.828 / 75.5239 = 0.225$ meter

The distance between the human and the RF antenna should not be less than 0.225 meter or 22.5 centimeter.