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## 1.1 MPE Calculation

## 1.1.1 Calculation RF exposure

Result: Passed

The calculated of MPE limit at given distance

Equation of OET Bulletin 65, Edition 97-01

 $S = PG / 4\pi R^2$ 

where: S = Power density

P = Power input to the antenna

G = Antenna gain

R = Distance to the center of radiation of antenna

The table below is excerpted from Table 1B of 47CFR 1.1310 "Limits for maximum permissible exposure (MPE), Limits for General Population/Uncontrolled Exposure"

Frequency Range (MHz)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)
1500 - 10000	1.0	30

## Calculation:

P Max power input to the antenna: 83.4 mW (19.21 dBm);

G Antenna gain: 1.45 numerical for Antenna gain (1.6 dBi);

R Distance: 20 cm;

Calculated power density:  $S=PG \: / \: 4\pi R^2 = 0.024 \: mW/cm^2.$