



NCEE Labs
 4740 Discovery Drive
 Lincoln, NE 68521
 402-323-6233

FCC ID: QIQAGGW1000

Maximum exposure limits from CFR 47, FCC Part 1.1310:

Table 1—Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 |
| 3.0-30 | 1842/f | 4.89/f | *900/f ² | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *100 | 30 |
| 1.34-30 | 824/f | 2.19/f | *180/f ² | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | 1.0 | 30 |

The power density is calculated as shown below:

$$S = (P \times G)/(4 \times \pi \times d^2) - \text{used to calculate exposure at 20 cm}$$

$$d = \sqrt{(S/(P \times G) \times 4 \times \pi)} - \text{used to calculate minimum distance to meet limits}$$

- S= power density
- P = transmitter conducted power (in mW)
- G = antenna numeric gain
- d = distance to radiation center



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Table 2 – Power Density Calculations

| Frequency | Antenna Gain | Output power* | Distance | Power Density | Distance | Limit |
|-----------|--------------|---------------|----------|--------------------|----------|--------------------|
| MHz | (numerical) | mW | | mW/cm ² | | mW/cm ² |
| 923.3 | 19.95 | 203.423 | 75 | 0.0574422 | 60 | 0.0616 |
| 925.6 | 19.95 | 195.613 | 75 | 0.0552368 | 60 | 0.0617 |
| 927.5 | 19.95 | 190.718 | 75 | 0.0538546 | 60 | 0.0618 |

*Output power = measurements taken from NCEE Labs test report R20160219-29-02A with an additional 10% added to account for manufacturing tolerance.

Note: This equipment is not intended to be operated by hand. It is expected that a 75cm separation will be maintained at all times.