

10. RF EXPOSURE STATEMENT

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

| (B) Limits for General Population/Uncontrolled Exposures | | | | |
|--|----------------------------------|----------------------------------|--|-----------------------------|
| Frequency range (MHz) | Electric field Strength (V/m) | Magnetic field Strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
| 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 - 1500..... | | | f/1500 | 30 |
| 1500 - 100.000..... | | | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equivalent power density

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

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| | | |
|---|---------|--------------------|
| Max Peak output Power at antenna input terminal | 14.980 | dBm |
| Max Peak output Power at antenna input terminal | 31.477 | mW |
| Prediction distance | 20.000 | cm |
| Prediction frequency | 824.200 | MHz |
| Antenna Gain(typical) | 5.000 | dBi |
| Antenna Gain(numeric) | 3.162 | – |
| Power density at prediction frequency(S) | 0.020 | mW/cm ² |
| MPE limit for uncontrolled exposure at prediction frequency | 0.549 | mW/cm ² |

3. RESULTS

The power density level at 20 cm is 0.020 (GSM), which is below the uncontrolled exposure limit for GSM band.

Warning: In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, it must also have a minimum distance of 20 cm from the body during normal operation.

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