11 FCC §1.1307(b), §27.52 & §2.1091 - RF EXPOSURE

11.1 Applicable Standard

According to §1.1310 and §2.1091 (Mobile Devices) RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (V/m) Limits for Gene | Magnetic Field Strength (A/m) ral Population/Un | Power Density (mW/cm²) controlled Exposur | Averaging Time (minute) |
|--------------------------|---|---|---|-------------------------|
| 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

11.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

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

Where: 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

Maximum peak output power at antenna input terminal (dBm): 22.86 Maximum peak output power at antenna input terminal (mW): 193.20

Prediction distance (cm): 30
Prediction frequency (MHz): 2132.4
Antenna Gain, typical (dBi): 5.0
Maximum Antenna Gain (numeric): 3.16

Power density at predication frequency and distance (mW/cm²): 0.05398

MPE limit for uncontrolled exposure at predication frequency (mW/cm²): 1.0

Test Result

The highest power density level at 30 cm is 0.05398 mW/cm², which is below the uncontrolled exposure limit of 1 mW/cm² at 2132.4 MHz.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 30cm between the radiation and your body.

^{* =} Plane-wave equivalent power density