

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	Electric field	Magnetic field	Power density	Averaging time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 30

F = frequency in MHz

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

^{* =} Plane-wave equivalent power density





2-1.

Max Peak output Power at antenna input terminal (dBm)	24.200
Max Peak output Power at antenna input terminal (mW)	263.027
Prediction distance (cm)	20.000
Prediction frequency (MHz)	836.520
Antenna Gain(typical) (dBi)	1.070
Antenna Gain(numeric)	1.279
Power density at prediction frequency (mW/cm²)	0.06695
MPE limit for uncontrolled exposure at prediction frequency (mW/cm²)	0.558

3. RESULTS

The power density level at 20 cm is 0.06695 mW/cm^2 , which is below the uncontrolled exposure limit of 0.558 mW/cm^2 at **FDM-650**