

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	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

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^{* =} Plane-wave equivalent power density



Max Peak output Power at antenna input terminal	52.04000	dBm
Max Peak output Power at antenna input terminal	159.95580	W
Prediction distance	1200.00000	cm
Prediction frequency	1962.50000	MHz
Antenna Gain(typical)	20.00000	dBi
Antenna Gain(numeric)	100.00000	_
Power density at prediction frequency (S)	0.88395	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

3. RESULTS

The power density level at 1200 cm is 0.883950 mW/cm^2 , which is below the uncontrolled exposure limit of 1.0 mW/cm^2 at $1930 \text{ MHz} \sim 1995 \text{ MHz}$

Warning: In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, it must also have a minimum distance of 1200 cm from the body during normal operation.

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