11. 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 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	34.91000	dBm
Max Peak output Power at antenna input terminal	3097.41930	mW
Prediction distance	50.00000	cm
Prediction frequency	2312.00000	MHz
Antenna Gain(typical)	8.00000	dBi
Antenna Gain(numeric)	6.30957	_
Power density at prediction frequency (S)	0.62209	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

3. RESULTS

The power density level at 50 cm is 0.62209 mW/cm^2 , which is below the uncontrolled exposure limit of 1.0 mW/cm^2 at 2312 MHz.

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