

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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3. RESULTS

Port 0

Max Peak output Power at antenna input terminal	24.08	dBm
Max Peak output Power at antenna input terminal	255.9	mW
Prediction distance	100.000	cm
Prediction frequency	1962.5	MHz
Antenna Gain(typical)	2.5	dBi
Antenna Gain(numeric)	1.77828	–
Power density at prediction frequency (S)	0.003621	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

Port 1

Max Peak output Power at antenna input terminal	23.98	dBm
Max Peak output Power at antenna input terminal	250.0	mW
Prediction distance	100.000	cm
Prediction frequency	1932.5	MHz
Antenna Gain(typical)	2.5	dBi
Antenna Gain(numeric)	1.77828	–
Power density at prediction frequency (S)	0.003538	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

The power density level at 100 cm is 0.003621 mW/cm², which is below the uncontrolled exposure limit of 1.0 mW/cm² at Port 0

The power density level at 100 cm is 0.003538 mW/cm², which is below the uncontrolled exposure limit of 1.0 mW/cm² at Port 1

Simultaneous MPE at 100 cm is $(0.003621/1.0)+(0.003538/1.0) < 1$

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