

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

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

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

2. RESULTS

Max Average output Power at antenna input terminal (dBm)	3.2190
Max Average output Power at antenna input terminal (mW)	2.098
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	2441.00000
Antenna Gain(Peak) (dBi)	-0.10000
Antenna Gain(numeric)	0.97724
Power density at prediction frequency (mW/cm ²)	0.000408
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000