

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

3. RESULTS

3-1. UNII 1 BAND

Max Average output Power at antenna input terminal (dBm)	3.7300
Max Average output Power at antenna input terminal (mW)	2.360
Prediction distance (cm)	20.0000
Prediction frequency (MHz)	5156.000
Antenna Gain(Peak) (dBi)	0.55000
Antenna Gain(numeric)	1.13501
Power density at prediction frequency (mW/cm ²)	0.000533
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-2. UNII 3 BAND

Max Average output Power at antenna input terminal (dBm)	-2.0140
Max Average output Power at antenna input terminal (mW)	0.629
Prediction distance (cm)	20.0000
Prediction frequency (MHz)	5730.000
Antenna Gain(Peak) (dBi)	1.3000
Antenna Gain(numeric)	1.34896
Power density at prediction frequency (mW/cm ²)	0.000169
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000