
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. BT BAND

Max Average output Power at antenna input terminal (dBm)	3.027
Max Average output Power at antenna input terminal (mW)	2.008
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	2441.00000
Antenna Gain(Peak) (dBi)	2.10000
Antenna Gain(numeric)	1.62181
Power density at prediction frequency (mW/cm ²)	0.000648
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-2. DTS(802.11b) BAND

Max Average output Power at antenna input terminal (dBm)	23.030
Max Average output Power at antenna input terminal (mW)	200.909
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	2412.00000
Antenna Gain(Peak) (dBi)	2.10000
Antenna Gain(numeric)	1.62181
Power density at prediction frequency (mW/cm ²)	0.064823
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-3. DTS(802.11g) BAND

Max Average output Power at antenna input terminal (dBm)	22.970
Max Average output Power at antenna input terminal (mW)	198.153
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	2437.00000
Antenna Gain(Peak) (dBi)	2.10000
Antenna Gain(numeric)	1.62181
Power density at prediction frequency (mW/cm ²)	0.063934
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-3. DTS(802.11n) BAND

Max Average output Power at antenna input terminal (dBm)	22.550
Max Average output Power at antenna input terminal (mW)	179.887
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	2437.00000
Antenna Gain(Peak) (dBi)	2.10000
Antenna Gain(numeric)	1.62181
Power density at prediction frequency (mW/cm ²)	0.058040
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-4. UNII 1 (802.11a) BAND

Max Average output Power at antenna input terminal (dBm)	13.060
Max Average output Power at antenna input terminal (mW)	20.230
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	5240.00000
Antenna Gain(Peak) (dBi)	3.90000
Antenna Gain(numeric)	2.45471
Power density at prediction frequency (mW/cm ²)	0.009879
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-5. UNII 1 (802.11n) BAND

Max Average output Power at antenna input terminal (dBm)	12.790
Max Average output Power at antenna input terminal (mW)	19.011
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	5240.00000
Antenna Gain(Peak) (dBi)	3.90000
Antenna Gain(numeric)	2.45471
Power density at prediction frequency (mW/cm ²)	0.009284
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-6. UNII 3 (802.11a) BAND

Max Average output Power at antenna input terminal (dBm)	16.730
Max Average output Power at antenna input terminal (mW)	47.098
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	5745.00000
Antenna Gain(Peak) (dBi)	3.90000
Antenna Gain(numeric)	2.45471
Power density at prediction frequency (mW/cm ²)	0.023000
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000

3-7. UNII 3 (802.11n) BAND

Max Average output Power at antenna input terminal (dBm)	16.800
Max Average output Power at antenna input terminal (mW)	47.863
Prediction distance (cm)	20.00000
Prediction frequency (MHz)	5745.00000
Antenna Gain(Peak) (dBi)	3.90000
Antenna Gain(numeric)	2.45471
Power density at prediction frequency (mW/cm ²)	0.023374
MPE limit for uncontrolled exposure at prediction frequency (mW/cm ²)	1.00000