FCC ID: WUS00002

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the 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

Peak Radiated Field Strength:	84.4	(dBuV/m @ 3m)
Peak EIRP:	-10.87	(dBm)
Peak EIRP:	0.081846479	(mW)
Antenna gain(assuming isotropic):	0	(dBi)
Maximum antenna gain:	1	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	305.5	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.2	(mW/cm^2)
Power density at prediction frequency:	0.000016	(mW/cm^2)

Prediction of MPE limit at a given distance

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$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest rel. to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	22.80	(dBm)
Maximum peak output power at antenna input terminal:	190.5461	(mW)
Antenna gain(typical):	7	(dBi)
Maximum antenna gain:	5.011872	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2400	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Power density at prediction frequency: 0.18999 (mW/cm^2)

Summation of RF Exposure Calculation:

When all the antennas are at least 20cm away from the user, but individual antennas can not be separated by 20cm from each other.

$$\frac{0.000016\frac{mW}{cm^2}}{0.2\frac{mW}{cm^2}} + \frac{0.18999\frac{mW}{cm^2}}{1.0\frac{mW}{cm^2}} = 0.19007$$

$0.19007 < 1$

Therefore, the device complies with FCC's RF radiation exposure limit for general population for a mobile device.