FCC § 1.1307(b)(1) & § 2.1091-RF EXPOSURE

1. Applicable Standard

According to § 11310 and § 2.1091 (Mobile Devices)RF exposure is calculated.

Frequency Range(Mhz)	Electric Field Stength(V/m)	Magnetic Field Stength(A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
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. MPE Prediction

Predication of MPE limit at given distance, equation form OET Bulletin 65, Edition97-01

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

Where: 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

700MHz Band:

Maximum peak output power at antenna input terminal (dBm):	18.22
Maximum peak output power at antenna input terminal(mW):	66
Prediction distance(cm):	20
Prediction frequency(MHz):	722
Antenna Gain, typical(dBi):	3
Maximum Antenna Gain(Numeric):	2.8
Power density at predication frequency and distance (mW/cm^2):	0.04
MPE limit for uncontrolled exposure at predication frequency (mW/cm^2):	0.47

850MHz Band

Maximum peak output power at antenna input terminal (dBm):	26.04
Maximum peak output power at antenna input terminal(mW):	402
Prediction distance(cm):	20
Prediction frequency(MHz):	859
Antenna Gain, typical(dBi):	3
Maximum Antenna Gain(Numeric):	2.8
Power density at predication frequency and distance (mW/cm^2):	0.22
MPE limit for uncontrolled exposure at predication frequency (mW/cm^2):	0.57

1900MHz

Maximum peak output power at antenna input terminal (dBm):	26.12
Maximum peak output power at antenna input terminal(mW):	409
Prediction distance(cm):	20
Prediction frequency(MHz):	1922.5
Antenna Gain, typical(dBi):	3
Maximum Antenna Gain(Numeric):	2.8
Power density at predication frequency and distance (mW/cm^2):	0.23
MPE limit for uncontrolled exposure at predication frequency (mW/cm^2):	1

3. Test Results

The device is compliant with the requirement MPE limit for uncontrolled exposure.