11   FCC §1.1307(b), §27.52 & §2.1091 - RF EXPOSURE

11.1   Applicable Standard

According to FCC §1.1310 and §2.1091 (Mobile Devices) RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (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

Note: f = frequency in MHz
   * = Plane-wave equivalent power density

11.2   MPE Prediction

Predication of MPE limit at a given distance, equation from OET Bulletin 65, Edition 97-01

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

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

11.3   Test Result

	Maximum peak output power at antenna input terminal (dBm):	15.08
	Maximum peak output power at antenna input terminal (mW):	32.21
	Prediction distance (cm):	20
700 MHz Band:	Prediction frequency (MHz):	752
	Antenna Gain, typical (dBi):	8.0
	Maximum Antenna Gain (numeric):	6.310
	Power density at predication frequency and distance (mW/cm^2):	0.0404
	MPE limit for uncontrolled exposure at predication frequency (mW/cm^2):	0.5013

	Maximum peak output power at antenna input terminal (dBm):	14.98
	Maximum peak output power at antenna input terminal (mW):	31.477
	Prediction distance (cm):	20
AWS Band:	Prediction frequency (MHz):	2112.4
	Antenna Gain, typical (dBi):	8
	Maximum Antenna Gain (numeric):	6.310
	Power density at predication frequency and distance (mW/cm^2):	0.04322
	MPE limit for uncontrolled exposure at predication frequency (mW/cm^2):	1.0