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

2.Prediction of MPE limit at given distance, equations from OET Bulletin 65, Edition 97.01:

$$S = (1.64 * P * G) / (4 * \pi * R^2)$$
 (where PG = ERP)

$$S = (P * G) / (4 * \pi * R^2)$$
 (where PG = EIRP)

Where:

S = power density

P= power input to antenna

G= numeric gain of the antenna

R= distance to the center of radiation of the antenna

850MHz Band:

Maximum peak output power at antenna input terminal (dBm):	26.06
Maximum peak output power at antenna input terminal (mW):	403.6
Prediction distance (cm):	40
Prediction frequency (MHz):	881.6
Maximum antenna gain (dBd):	-0.14
Maximum antenna gain (numeric):	0.97
Maximum RF output power (ERP, mW):	390
Power density at predication frequency and distance (mW/cm²):	0.03
MPE limit for uncontrolled exposure at predication frequency (mW/ cm²):	0.59

^{*=}Plane-wave equivalent power density

1900MHz

Maximum peak output power at antenna input terminal (dBm):	26.18	
Maximum peak output power at antenna input terminal (mW):		
Prediction distance (cm):	40	
Prediction frequency (MHz):	1962.6	
Maximum antenna gain (dBi):	3	
Maximum antenna gain (numeric):	2	
Maximum RF output power (EIRP, mW):	830	
Power density at predication frequency and distance (mW/cm²):	0.04	
MPE limit for uncontrolled exposure at predication frequency (mW/ cm²):	1	

3. Test ResultsThe device is compliant with the requirement MPE limit for uncontrolled exposure.