Report

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

11.1 Applicable Standard

According to §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	

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

 $\mathbf{R} =$ distance to the center of radiation of the antenna

800 MHz Band:

Maximum peak output power at antenna input terminal (dBm):		
Maximum peak output power at antenna input terminal (mW):		
Prediction distance (cm):		
Prediction frequency (MHz):	<u>815</u> 8.0	
Antenna Gain, typical (dBi):		
Maximum Antenna Gain (numeric):		
Power density at predication frequency and distance (mW/cm^2) :	<u>0.00013</u> 0.543	
MPE limit for uncontrolled exposure at predication frequency (mW/cm ²):		
900 MHz Band:		
Maximum peak output power at antenna input terminal (dBm):	-10.00	
Maximum peak output power at antenna input terminal (mW):	0.10	
Prediction distance (cm):	<u>0.10</u> <u>20</u>	
Prediction frequency (MHz):	<u>898.5</u>	
Antenna Gain, typical (dBi):	<u>8.0</u>	
Maximum Antenna Gain (numeric):	<u>6.31</u> 0.00013	
Power density at predication frequency and distance (mW/cm^2) :		
MPE limit for uncontrolled exposure at predication frequency (mW/cm ²):		

11.3 Test Results

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

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