MPE Calculation: WCDMA

RF function or Mode	Frequency range (MHz)			Max Target Power (dBm)	ANT Gain (dBi)	Calculated EIRP(dBm)	Measured EIRP(dBm)	Maximum EIRP (dBm)	Maximum EIRP (mW)	power density	Requriment (mW/cm²)
WCDMA850	826.40	~	846.60	22.00	-3.48	18.52	20.74	20.74	118.577	0.024	0.550
WCDMA1900	1852.40	~	1907.60	22.00	1.18	23.18	19.87	23.18	207.970	0.042	1.000
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The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE sample calculation for this exposure is shown below.

• **S** = EIRP / (4 R² π) - **Note** = 118.577 / (4 X 20² X π) S= Max

= 118.577 / (4 X 20^2 X π) S= Maximum power density(mW/cm²) = 0.024 mW/cm² EIRP= Equivalent Isotropic Radiated Pc

R= Distance to the center of the radiation of the a

Limits for General Population/Uncontrolled Exposure

Freq	uency (MHz)	-	Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm²)	Averageing time (minutes)	
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	~	1,500			f / 1500	30	
1,500	~	100,000			1.0	30	

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

Conclusion: The exposure condition of this device is compliant with FCC