

Report No.: HCTR1105FR12 FCC ID: U88-SC-1930AMP DATE : May 20, 2011

10. RF EXPOSURE STATEMENT

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range	Electric field	Magnetic field	Power density	Averaging time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 30

F = frequency in MHz

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

^{* =} Plane-wave equivalent power density



Report No.: HCTR1105FR12 FCC ID: U88-SC-1930AMP DATE : May 20, 2011

2-1. PCS Downlink

Max Peak output Power at antenna input terminal	29.88000	dBm
Max Peak output Power at antenna input terminal	972.74722	mW
Prediction distance	40.00000	cm
Prediction frequency	1931.25000	MHz
Antenna Gain(typical)	12.00000	dBi
Antenna Gain(numeric)	15.84893	_
Power density at prediction frequency (S)	0.76678	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

2-2. PCS Uplink

Max Peak output Power at antenna input terminal	29.99000	dBm
Max Peak output Power at antenna input terminal	997.70006	mW
Prediction distance	40.00000	cm
Prediction frequency	1851.25000	MHz
Antenna Gain(typical)	12.00000	dBi
Antenna Gain(numeric)	15.84893	_
Power density at prediction frequency (S)	0.78645	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

3. RESULTS

The power density level at 40 cm is 0.76678 mW/cm²(DownLink), 0.78645 mW/cm²(UpLink), which is below the uncontrolled exposure limit for PCS Band.

Warning: In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, it must also have a minimum distance of 40 cm from the body during normal operation.