

Report No.: HCTR1105FR09 FCC ID: U88-SC-1924AMP 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



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2-1. PCS Downlink

Max Peak output Power at antenna input terminal	23.96000	dBm
Max Peak output Power at antenna input terminal	248.88573	mW
Prediction distance	20.00000	cm
Prediction frequency	1931.25000	MHz
Antenna Gain(typical)	12.00000	dBi
Antenna Gain(numeric)	15.84893	_
Power density at prediction frequency (S)	0.78475	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	24.07000	dBm
Max Peak output Power at antenna input terminal	255.27013	mW
Prediction distance	20.00000	cm
Prediction frequency	1851.25000	MHz
Antenna Gain(typical)	12.00000	dBi
Antenna Gain(numeric)	15.84893	_
Power density at prediction frequency (S)	0.80488	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.00000	mW/cm ²

3. RESULTS

The power density level at 20 cm is 0.78475 mW/cm²(DownLink), 0.80488 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 20 cm from the body during normal operation.