

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 (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging 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 - 1500.....	f/1500	30
1500 - 100.000.....	1.0	30

F = frequency in MHz

* = Plane-wave equivalent power density

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

HCT Co., Ltd.

San 136-1, Ami-ri , Bubal-eup, Icheon-si, Kyounki-do, 467-701,Korea

TEL : +82 31 639 8518 FAX : +82 31 639 8525 www.hct.co.kr

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Max Peak output Power at antenna input terminal	24.04	dBm
Max Peak output Power at antenna input terminal	253.51286	mW
Prediction distance	20.00000	cm
Prediction frequency	1872.5	MHz
Antenna Gain(typical)	12.00000	dBi
Antenna Gain(numeric)	15.84893	–
Power density at prediction frequency (S)	0.79934	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 0.79934 mW/cm², which is below the uncontrolled exposure limit of 1.0 mW/cm² at 1872.5 MHz 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.