US Tech	11-0044
Client	RFM/Cirronet
Issue Date	03-30-2011
Model:	DNT900
FCC ID:	HSW-DNT900
IC ID:	4492A-DNT900

Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm^2 at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Dipole Antenna= 5 dBi

Peak Power (Watts) = 0.0575 (from Table 9 of Test Report)
Gain of Transmit Antenna = 5 dB$_i$ = 3.162, numeric (from Table 3 of Test Report)
d = Distance = 20 cm = 0.2 m

$\mathbf{S}$ = (PG/ $4\pi d^2$) = EIRP/4A = 0.0575 (3.162)/4*π*0.2*0.2
= 0.1818/0.503 = 0.3614 W/m^2
= (W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.03614 mW/cm^2

which is << less than 0.61 mW/cm^2

Highest Gain Yagi Antenna= 6 dBi

Peak Power (Watts) = 0.0575 (from Table 9 of Test Report)
Gain of Transmit Antenna = 6 dB$_i$ = 3.981, numeric (from Table 3 of Test Report)
d = Distance = 20 cm = 0.2 m

$\mathbf{S}$ = (PG/ $4\pi d^2$) = EIRP/4A = 0.0575 (3.981)/4*π*0.2*0.2
= 0.2289/0.503 = 0.4551 w/m^2
= (W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.04551 mW/cm^2

which is << less than 0.61 mW/cm^2