

RF EXPOSURE INFO

CDMA operations at the 850 MHz Band

Used limit for 850MHz fixed operation:

- A) 0.57mW/cm^2 @ $20\text{cm}=2.865\text{W}$ (34.57dBm) as per §1.1310 table 1B
- B) 1000 W ERP for Cellular Radiotelephone Service as per §1.1307 Table 1

Max. permitted Antenna gain where no routine evaluation is required:

$$\text{Ant. Gain} = 34.57\text{dBm} - \text{measured cond. Power} = 34.57-23.5 = 11.07\text{dBi} - 2.14 = 8.93\text{dB}$$

Used limit for 850MHz mobile operation:

- C) 0.57mW/cm^2 @ $20\text{cm}=2.865\text{W}$ (34.57dBm) as per §1.1310 table 1B
- D) 1.5 W (31.76dBm) ERP for frequencies below 1.5 GHz as per §2.1091(c)

Max. permitted Antenna gain where no routine evaluation is required:

$$\text{Ant. Gain} = 31.76\text{dBm} - \text{measured cond. Power} = 31.76-23.5 = 8.26\text{dB}$$

CDMA operations at the 1900 MHz Band

Limit for 1900MHz fixed operation:

1mW/cm² @ 20cm=5W (37dBm)

$$\text{Ant. Gain} = 37\text{dBm} - \text{measured cond. Power} = 37-23.5 = 13.5\text{dBi}$$

Limit for 1900MHz mobile operation:

2W (33dBm) EIRP

$$\text{Ant. Gain} = 33\text{dBm} - \text{measured cond. Power} = 33-23.5 = 9.5\text{dBi}$$

Date: 2004-07-30



Harpreet Sidhu
Cetecom Inc.