

## RF Exposure Information

### 1) Power measurement :

Measured max conducted power at 850 MHz: 32,5 dBm

Measured max conducted power at 1900 MHz: 30 dBm

### 2) Calculation of the acceptable gain maximum for fixed operations:

According to rules §1.1310. the limits are for the following frequency :

300-1500 MHz:  $f/1500 \text{ mW/cm}^2$  therefore for 850MHz:  $0,57 \text{ mW/cm}^2$

1500-100,000 MHz:  $1 \text{ mW/cm}^2$

#### 2.1 Calculation for 850MHz

$$G = 10\log(0,57 \times 4 \times \pi \times 400) - 32,5 = 1,4 \text{ dBi}$$

#### 2.2 Calculation for 1900 MHz

$$G = 10\log(1 \times 4 \times \pi \times 400) - 30 = 7 \text{ dBi}$$

### 3) Calculation of the acceptable gain maximum for mobile operations:

According to rule §24.232 the limits are for the following frequency :

850 MHz: 1,5W [ERP]

1900 MHz : 2W [EIRP]

#### 3.1 Calculation for 850MHz

$$G = 10\log(1,5) - 32,5 + 2,15 = 1,4 \text{ dBi}$$

#### 3.2 Calculation for 1900 MHz

$$G = 10\log(2) - 30 = 3 \text{ dBi}$$

Eric Michel Radio Team Manager

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WAVECOM S.A

3, esplanade du Foncet, 92442 Issy-les-Moulineaux – France

Tel : +33 (0)1 46 29 08 00

Fax : +33 (0)1 46 29 08 08

[www.wavecom.com](http://www.wavecom.com)

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