

Calculation: RF-Exposure

Type identification: **cB-0926-02 and cB-0926-03**

In accordance to the **CFR Part 47, §1.1310**

S: Limit for power density according to CFR Part 47, §1.1310:

$$10 \text{ W/m}^2$$

P: 95.5 mW

G: 8.5 dBi = 7.08

D: Duty cycle: 100 % = 1

R: Distance in what the limit of S has to be reached: 0.2 m

$$S = \frac{P \cdot G \cdot D}{4 \cdot \pi \cdot R^2} \Rightarrow \underline{\underline{S = \frac{0.0955 \text{ W} \cdot 7.08 \cdot 1}{4 \cdot \pi \cdot (0.2 \text{ m})^2} = 1.345 \frac{\text{W}}{\text{m}^2}}}$$

The value for the “General population / Uncontrolled Exposure” of the power density is below the limit of CFR Part 47, §1.1310.