Calculation: RF-Exposure

Type identification: **CRA61**

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

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

       10 W/m^2

P: 0.0178 W (e.i.r.p.)

G: Not applicable (power is e.i.r.p.)

D: Duty cycle: 100 % = 1

R: Distance in what the limit of S has to be reached: 0.02 m
       (minimum distance according to CFR Part 47, §2.1091 (b))

$$S = \frac{P \cdot D}{4 \cdot \pi \cdot R^2} \quad \Rightarrow \quad S = \frac{0.0178\ W \cdot 1}{4 \cdot \pi \cdot (0.05 m)^2} \quad = \quad 0.567 \frac{W}{m^2}$$

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