

Calculation: RF-Exposure for 2.4 GHz WLAN transmitter

Type identification: VIO® 3
FCC ID: 2AGEM-VIO3
IC Number 20687-VIO3

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

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

10 W/m²

P: 18.6 mW (averaged over 30 min)

G: 3 dBi = 2.0

D: Duty cycle: 100 % = 1

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

$$S = \frac{P \times G \times D}{4 \times \pi \times R^2} \quad \text{P} \quad \underline{\underline{S}} = \frac{0.0186 \times 18.6 \times 2.0 \times 1}{4 \times \pi \times (0.2)^2} = 0.074 \frac{W}{m^2}$$

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