

RF Exposure Evaluation

FCC Radiation Exposure Calculation

This equipment should be installed and operated with minimum distance specified below

Frequency	P _o	P _o	P _o + 10% tolerance	FCC Maximum Exposure limit	Field Density a 20cm	Margin
MHz	dBm	mW	mW	mW/cm ²	mW/cm ²	mW/cm ²
154.570	31.76	1500	1650	0.20	0.11	0.09

Controlled exp.	
General pop.	1

$$\text{Field Density} = (P_o \times G)/(4 \times \pi \times r^2)$$

1 = yes

Limit = 0.2 mW/cm²

G = Gain = - 5dBi = 0.32 (linear)

S = Field density limit at Frequency specified

P_o = conducted output power

r = Min distance (cm)

Note: EIRP measurements are made when the antenna is not easily connected directly to a spectrum analyzer and the antenna gain is not published.

References

FCC Part 1.1310, 2.1091

FCC OET Bulletin 65, Edition 97-01

FCC Supplement C to OET Bulletin 65, edition 01-01