

## RF exposure

According to FCC part 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in § 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (Mb)	Electric field strength(V/m)	Magnetic field strength (A/m)	Power density (ﷺ/ﷺ)	Average time		
(A) Limits for Occupational / Control Exposures						
300 – 1 500			f/300	6		
1 500 - 100000			5	6		
(B) Limits for General Population / Uncontrol Exposures						
300 – 1 500	1		f/1500	6		
1 500 – 100 000			1	<u>30</u>		

f= frequency in Mb

Friis transmission formula:  $Pd = (Pout \times G)/(4 \times pi \times R^2)$ 

Where,

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

## Results - FHSS

Mode	Max tune-up power (dBm)	Antenna gain (dBi)	Power density at 20 cm(mW/cm)	Limit (₪V/c㎡)
FHSS	12.50	1.20	0.004 67	1

FCC ID: 2ADTG-Q800PRO

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