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 (Mtz)	Electric field strength(V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	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			<u>f/1500</u>	30		
1 500 – 100 000			1	30		

f= frequency in Mb

 $Pd = EIRP/4 \times pi \times R^2$

EIRP = Field strength+20Log(D)-104.8

Where,

Pd = power density in mW/cm²

EIRP = Equivalent Isotropic Radiated Power

Pi = 3.1416

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

D = Measured distance in m

Results

Frequency (Mb)	Field strength (dBuV/m)	EIRP (dBm)	Pd cm(mW/cm²)	Limit (mW/cm²)
917.1	90.56	-4.70	0.000067	0.6
920.3	90.55	-4.71	0.000067	0.6
923.3	90.42	-4.84	0.000065	0.6

Result: The power density does NOT exceed the limit

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