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1. Equipment Under Test (EUT)

K200R Repeater

Manufacturer declaration

The EUT is designed for fixed / mobile applications application environments.

1.1. Fixed / Mobile Application

MPE for bystanders which are considered to be ≥ 20 cm away from the front of the transmit antenna

1.2. Limits

§ 1.1310(e)(1)

2. Maximum Permissible Exposure FCC

2.1 Frequency hopping radio

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

$$S = \frac{PG}{4\pi R^2}$$

Prediction frequency:	924	MHz
Conducted Output Power	22.12	dBm
Antenna Gain	2.4	dBi
Tune up tolerance	1.00	dB
Time Averaging Factor	0	dB
EIRP Peak	25.52	dBm
EIRP Peak	356	mW
Prediction distance:	20	cm
Prediction frequency:	924	MHz
MPE limit for Uncontrolled/General Population exposure at mid band frequency (915MHz):	0.610	mW/cm ²
Power density at prediction frequency:	0.071	mW/cm ²
Power density at prediction frequency:	0.709	W/m ²
Test Result	Pass	
Exempt from routine evaluation for RF Exposure 0.071 <= 0.61		

Notes

The table above shows that for a prediction distance of 20 cm, RF exposure evaluation is not required.

End of report