



LCIE SUD EST
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FCCID: 2AXZV-TEST6315

Prediction of MPE limit at a given distance

Following field measurements of carrier power @3m, in the worst case:
 65.6dBµV/m Peak @2.45GHz

Power applied is:

E (dBµV/m)	E (V/m)	d (m)	G (gain numerique)	P (mW)	P (dBm)
65.6	0.00190546	3.0	1	0.00108923416	-29.63

$$E = \frac{\sqrt{30PG_{(\theta,\phi)}}}{r}$$

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

- 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

Prediction Frequency MHz	Conducted Output Power dBm	Max Antenna Gain dBi	Distance cm	Power Density mW/cm2	Limit mW/cm2
2450	-29.64	0	20	0.0000002	1.00

Conclusion: Therefore our device complies with FCC's RF radiation exposure limits for general population without SAR evaluation with at least 20cm separation from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.