

4. RF Exposure Compliance Requirement

Prediction of MPE limit at a given distance

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 (20cm)

The Max Conducted Peak Output Power is below;

Channel Number	Frequency	Field strength at 3 meter		Output power	Power density
	[MHz]	[dB μ V/m]	[V/m]	[mW]	[mW/cm ²]
1	910.92	114.8	0.550	91.2	0.018 153
13	915.00	114.7	0.543	89.1	0.017 740
25	919.08	114.8	0.550	91.2	0.018 153

Result:

Complied with FCC/IC limit: 1mW/cm² / 10mW/cm²