Appendix A: FCC Part 1.1307, 1.1310, 2.1091, 2.1093: RF Exposure

MPE Calculations

The maximum permissible RF exposure is specified in FCC 1.1310.

RF Exposure Limits

Technology	Transmit Frequencies (MHz)	Uncontrolled Exposure
		FCC Limit (mW/cm^2)
LMR	450-470	0.3

** The lowest frequency of the above frequency ranges produces the most conservative limit (when limit is based on frequency) and was used to calculate the limits above, where applicable.*

Maximum Power

Technology	Transmit Frequencies (MHz)	Duty Cycle (%)	Measured Max Conducted Power (W)	Max Antenna Gain (dBi)	Max EIRP (W)
LMR	450-470	50	24	2.8	22.9

** LMR power is based on rated power X 1.20 (per Part 90.205(s)) X 50% duty cycle (for licensed PTT radios)*

Calculated Minimum Safe Distance from LMR Antenna (based on maximum gain)

Technology	Transmit Frequencies (MHz)	Uncontrolled Exposure
		United States (cm)
LMR	450-470	78.0