

APPENDIX A: FCC PART 1.1307, 1.1310, 2.1091, 2.1093 RF EXPOSURE

From FCC 1.1310 Table 1B, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm². The actual power density for the EUT with the two antenna options is calculated as shown below. The EUT is a professionally installed, fixed, point-to-point operating system.

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

Antenna Manufacturer	Antenna Type	Antenna Model	Gain (dBi)	Numeric Gain	Power (W)	Separation Distance (m)	Power Density (W/m ²)	Power Density (mW/cm ²)
Gabriel Electronics	Parabolic Antenna	SSP2-52B	29.0	794.3	0.245	2	3.87	0.387
Harris Corporation	Flat panel Antenna	MT-20004	28.0	631.0	0.245	2	3.08	0.308

WARNING:

It is the responsibility of the professional installer to ensure that when using the outdoor antenna kits in the United States (or where FCC rules apply), only the antenna specified above may be used. The use of any other antenna is expressly forbidden in accordance with FCC rules CFR 47 part 15.204.

NOTICE:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment when installed as directed. This equipment should be installed and operated with the Gabriel Electronics SSP2-52B or the Harris Corporation MT-20004 in a fixed-mount configuration, installed with a minimum of 2 meters of separation distance between the antenna and all persons during normal operation.