Appendix A: FCC §1.1307, §1.1310, §2.1091, §2.1093; IC RSS-Gen: RF Exposure

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for a controlled environment is f/300 mW/cm^2=3 mW/cm^2 for the frequencies used in this device (903.0 to 927.0 MHz). The worst case power is used for the calculation below.

The actual power density for the EUT calculated as shown below.

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

where:

S = power density
P = transmitter conducted power in (mW)
G = antenna numeric gain
d = distance to radiation center (cm)

Frequency (MHz)	Yagi Antenna Gain (dBi)	Conducted Power (mW)	Calculated Power Density (mW/cm^2)	Power Density Limit (mW/cm^2)
902.589	10.2	575	1.2	3.0

Notice:

Radiation Exposure Statement

The calculated power density is below the occupational limit. Therefore the minimum separation distance for this equipment, which is a mobile/fixed device, is 20 cm.