SCS Corporation
FCC ID: MKRU519
RF Identification Transceiver

Table 1 of CFR 1.1310 states the MPE for Uncontrolled Exposure is f/1500 mW/cm2
in the 300-1500 MHz range.

> MPE= f/1500   mW/cm2   where f=902 MHz minimum
>   = 902/1500   mW/cm2
>   = 0.601   mW/cm2
>   = 6.01   W/m2

In order to calculate the range at which the power density (Pd) is 0.601 mW/cm2, the following
equation is used.

> Pd= (Pt*Gt)/(4*PI*R^2)   where: Pt= transmitted power= 0.708 Watt
>   Gt= gain of transmitting antenna= 5.62
>   PI= 3.14
>   R= Distance from antenna

Solving for R yields:

> R= [(Pt*Gt)/(4*PI*Pd)]^0.5
> = [(.708*5.62)/(4*3.14*6.01)]^0.5
> = [(3.98)/(75.49)]^0.5
> = [0.05273]^0.5
> = 0.230   meters
> = 9.041   inches

In conclusion, the range at which the power density of the MKRU519 tranceiver is 0.6 mW/cm2,
is 9.04 inches (23 cm). This information will be placed in the MKRU519 operation manual.