US Tech Test Report:
 FCC Part 95

 Report Number:
 19-0396

 Issue Date:
 November 13, 2019

 Customer:
 Radio Systems Corporation

 Model:
 RAC00-16950 and RAC00-16993

 FCC ID:
 KE3-3003600

Maximum Public Exposure to RF (MPE) CFR 1.1310

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Antenna= -15 dBi

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Peak Power (Watts) = 1.5 dBm = 0.0014 W
Gain of Transmit Antenna = -15 dB_i = 0.03, numeric (EUT uses an external Loop antenna)
d = Distance = 20 cm = 0.2 m
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 $\mathbf{S} = (PG/4\pi d^2) = EIRP/4A = 0.0014*(0.03)/4*\pi*0.2*0.2$ = 0.000042/0.5030 = 0.000083 W/m² = (W/m²) (1m²/W) (0.1 mW/cm²) = 0.0000083 mW/cm²

which is << less than 1.0 mW/cm²