US Tech Test Report:
 FCC Part 95

 Report Number:
 19-0401

 Issue Date:
 November 25, 2019

 Customer:
 Radio Systems Corporation

 Model:
 RAC00-16949 and RAC00-16992

 FCC ID:
 KE3-3003643

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) = 2.8 \text{ dBm} = 0.002 \text{ W}

Gain of Transmit Antenna = -15 \text{ dB}_i = 0.03, numeric (EUT uses an external Loop antenna)

d = Distance = 20 \text{ cm} = 0.2 \text{ m}
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\mathbf{S} = (PG/4\pi d^2) = EIRP/4A = 0.002*(0.03)/4*\pi*0.2*0.2
= 0.00006/0.5030 = 0.00012 W/m<sup>2</sup>
= (W/m<sup>2</sup>) (1m<sup>2</sup>/W) (0.1 mW/cm<sup>2</sup>)
= 0.0000012 mW/cm<sup>2</sup>
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which is << less than 1.0 mW/cm²