US Tech Test Report: Issue Date: Report Number: Customer: Model: FCC ID: FCC Part 15.231/ RSS-210 August 20, 2013 13-0239 Radio Systems Corporation PTA00-14295 Transmitter KE3-PTA14295

Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 0.28 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Antenna= -20 dBi

Peak Power (Watts) = 0.0117Gain of Transmit Antenna = $-20 \text{ dB}_i = 0.01$, numeric d = Distance = 20 cm = 0.2 m

$$\begin{split} \textbf{S} &= (PG/4\pi d^2) = EIRP/4A = 0.0117 \ (0.01)/4^*\pi^*0.2^*0.2 \\ &= 0.000117/0.503 = 0.00023 \ W/m^2 \\ &= (W/m^2) \ (1m^2/W) \ (0.1 \ mW/cm^2) \\ &= 0.000023 \ mW/cm^2 \end{split}$$

which is << less than 0.28 mW/cm²