APPLICANT: LGC FCC ID: NOONUS-819RAU-1 MPE CALCULATION FOR 3 dBi ANTENNA

Formula used in the MPE Calculations:

 $E^{2/3770} = S, mW/cm2$ Pwatts*Ggain = 10^(PdBm-30+GdBi)/10) E, V/m = (Pwatts*Ggain*30)^.5/d, meters d = ((Pwatts*G*30)/3770*S))^0.5 ------(A)

Since

Substitute these parameters into the A above, we have MPE safe distance d(cm) = 4.37

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less

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Since S (mW/cm2) = 0.50 from 1.1310 Table 1 P (dBm) = 17.06 EUT output power G (dBi) = 3.00 EUT antenna gain

Substitute these parameters into the A above, we have MPE safe distance d(cm) = 4.02

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less