PROJECT: 02U1295 PROXIM 8455

MPE CALCULATION for 1.5 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

```
S (mW/cm2) = 1.00 from 1.1310 Table 1

P (dBm) = 21.77 EUT output power

G (dBi) = 1.50 EUT antenna gain
```

Substitute these parameters into the A above, we have

MPE safe distance d (cm) = 4.11

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