APPLICANT: D-Link
FCC ID: KA22002080002-1
MPE CALCULATION FOR 4 dBi ANTENNA
Highest gain in 11a band
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) =   17.30   EUT output power
G (dBi) =   4.00   EUT antenna gain

Substitute these parameters into the A above, we have
MPE safe distance d (cm) =   3.28

MPE CALCULATION FOR 3 dBi ANTENNA
Highest gain in 11b external
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) =   20.90   EUT output power
G (dBi) =   3.00   EUT antenna gain

Substitute these parameters into the A above, we have
MPE safe distance d (cm) =   4.42

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