Section 11. Maximum Permissible Exposure

MPE estimate is given per 2.1091 of FCC Rules:

Calculation Equation:

$$d = 0.282 \times \frac{10^{\frac{P+G}{20}}}{\sqrt{S}}$$

Where, P(DL)= 10dBm*, G=0 dBi (Server Antenna), P(UL)= 7dBm, G=7 dBi (Donor Antenna), and from §1.1310 Table 1 (B), S = 0.55 mW/cm^2

Plug all three items into the equation, and yields,

Power Density MPE Limit (mW/ cm^2)	Output Power (dBm)	Server Antenna Gain (dBi)	Donor Antenna Gain (dBi)	Server MPE Distance (cm)	Donor MPE Distance (cm)
0.55	10/7	0	7	1.20	1.90

*DL worst case: two DL antennas are collocated .

NOTE:

For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.