

Rapidwave RLt4				
FCC ID: SAMWIRL54BR1				
IC: 5124A-RL54BR1				
RF Hazard Distance Calculation				
mW/cm2 from Table1: 1.00 (E: 61 V/m)				
Max RF Power	TX Antenna	MPE	MPE, inches	Comment
P, dBm	G, dBi	Safe Distance, cm		
23.5	28.0	106.0	41.7	panel p2p
19.0	17.0	17.8	7.0	sector p2mp
20.0	16.0	17.8	7.0	sector p2mp
20.5	15.5	17.8	7.0	sector p2mp
Basis of Calculations:				
$E^2/3770 = S$, mW/cm2				
E , V/m = $(Pwatts * Ggain * 30)^{.5} / d$, meters				
$d = ((Pwatts * G * 30) / 3770 * S)^{.5}$ $Pwatts * Ggain = 10^{(Pd Bm - 30 + Gd Bi) / 10}$				
NOTE: For mobile or fixed location transmitters, minimum separation distance is for FCC compliance is 20 cm, even if calculations indicate MPE distance is less				