

MPE Calculations							
Alvarion Ltd.							
FCC ID: LKT-VL-IF							
RF Hazard Distance Calculation							
mW/cm2 from Table1:		1.00					
Max RF Power	TX Antenna	MPE					
P, dBm	G, dBi	Safe Distance, cm					
28.7	21.0	86.2					
20.0	16.0	17.8					
Basis of Calculations:							
$E^2/3770 = S, \text{ mW/cm}^2$							
$E, \text{ V/m} = (P_{\text{watts}} * G_{\text{gain}} * 30)^{.5} / d, \text{ meters}$							
$d = ((P_{\text{watts}} * G * 30) / 3770 * S)^{.5}$ $P_{\text{watts}} * G_{\text{gain}} = 10^{(P_{\text{dBm}} - 30 + G_{\text{dBi}}) / 10}$							
NOTE: For 15.247 fixed location transmitters in 5.7 GHZ band, minimum separation distance is 2 m, even if calculations indicate MPE distance is less							