

Pointred MPE Calculations								
FCC ID: QDU-MCRD-2R4								
						Calculate mW/cm2 here. Enter frequency		
RF Hazard Distance Calculation						Calculation of Limits from 1.1310 Table 1		
mW/cm2 from Table1:		1.00				F(MHz)	Actual F, MHz	
						0.3-3	0.5	
Max RF Power	TX Antenna	MPE	Antenna			3.0 - 30.0	5	
P, dBm	G, dBi	Safe Distance, cm				30.0-300	55	
						300-1500	555	
26.35	9.0	16.5	omni			1500-100000	5555	
26.35	15.0	33.0	yagi					
26.35	16.0	37.0	panel					
24.0	24.0	70.9	dish					
						Enter P(watts)	Equivalent dBm	Enter dBm
Basis of Calculations:						4	36.0	36.0
$E^2/3770 = S$, mW/cm2								
E , V/m = $(P_{watts} * G_{gain} * 30)^{.5} / d$, meters								
$d = ((P_{watts} * G * 30) / 3770 * S)^{.5}$				$P_{watts} * G_{gain} = 10^{(P_{dBm} - 30 + G_{dBi}) / 10}$				
NOTE: For fixed location transmitters, minimum separation distance is 2 meter								
even if calculations indicate MPE distance is less								

Uncontrolled	
Ave 30 min	
Gen, mW/cm2	
100.0	
36.0	
0.2	
0.37	
1.0	
atts	