

Tecom									
FCC ID: D6XWM5347N									
2,4 GHz WiFi						Calculate mW/cm2 here. Enter frequency in MHz:			
3.65 GHz Part 90Z						Calculation of Limits from 1.1310 Table 1			
			2.4 GHz WiFi	3.65 GHz 90Z				Controlled	Uncontrolled
mW/cm2 from Table1:			1.0	1.0		F(MHz)	Actual F, MHz	Ave 6 min	Ave 30 min
						0.3-3	0.5	Occ, mW/c2	Gen, mW/cm2
						3.0 - 30.0	5	100.0	100.0
Max RF Power	TX Antenna	MPE distance	S, mW/cm@	Comment		30.0-300	55	180.0	36.0
P, dBm	G, dBi	cm	at 20 cm			300-1500	902	1.0	0.2
						1500-100000	5555	3.0	0.60
								5.0	1.0
22.56	0.00	3.8	0.036	2.4GHz	pbc antenna				
Measred eirp,	Test Report	MPE distance	S, mW/cm@	Comment					
dBm	Referece	cm	at 20 cm						
26.32	3.1.7	5.8	0.085	3.65 GHz	custom internal				
		Total @ 20cm	0.121			Enter P(mW)	Equivalent dBm	Enter dBm	Equivalent Watts
Basis of Calculations:						895.4	29.52	29.52	895.4
E^2/3770 = S, mW/cm2									
E, V/m = (Pwatts*Ggain*30)^.5/d, meters									
d = ((Pwatts*G*30)/3770*S))^0.5						Pwatts*Ggain = 10^(PdBm-30+GdBi)/10)			
S@20cm = 20 log (MPE dist/20cm)									
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									