Alvarion Ltd										Controlled	Uncontrolled
FCC ID: LKT-EXTR-58											
						Calculate mW/cm2 here. Enter frequency in MHz:					
5.8 GHz DTS											
RF Hazard Distance Calculation						Calculation of Limits from 1.1310 Table 1					
										Controlled	Uncontrolled
										Ave 6 min	Ave 30 min
mW/cm2 from Table1:	1.00					F(MHz)	Actual F, MHz			Occ, mW/c2	Gen, mW/cm2
						0.3-3	0.5			100.0	100.0
Max RF Power	TX Antenna	MPE distance	S, mW/cm@	Comment		3.0 - 30.0	5			180.0	36.0
P, dBm	G, dBi	cm	at 2m			30.0-300	55			1.0	0.2
						300-1500	902			3.0	0.60
27.2	8.80	17.8	0.00718	effective Gain		1500-100000	5555			5.0	1.0
				9.5 dBi - 0.7 CL							
						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											

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Antenna separation vs MPE

```
┌──────────┐                    ┌──────────┐
│ ANT#1    │                    │ ANT#2    │
│          │                    │          │
│ 33 dBm   │      ┌─────┐       │ 33 dBm   │
│ eirp     │      │ INT │       │ eirp     │
│          │      └─────┘       │          │
└──────────┘                    └──────────┘
```

Antenna separation D

d1   d2

2m

d1, d2 > 2m
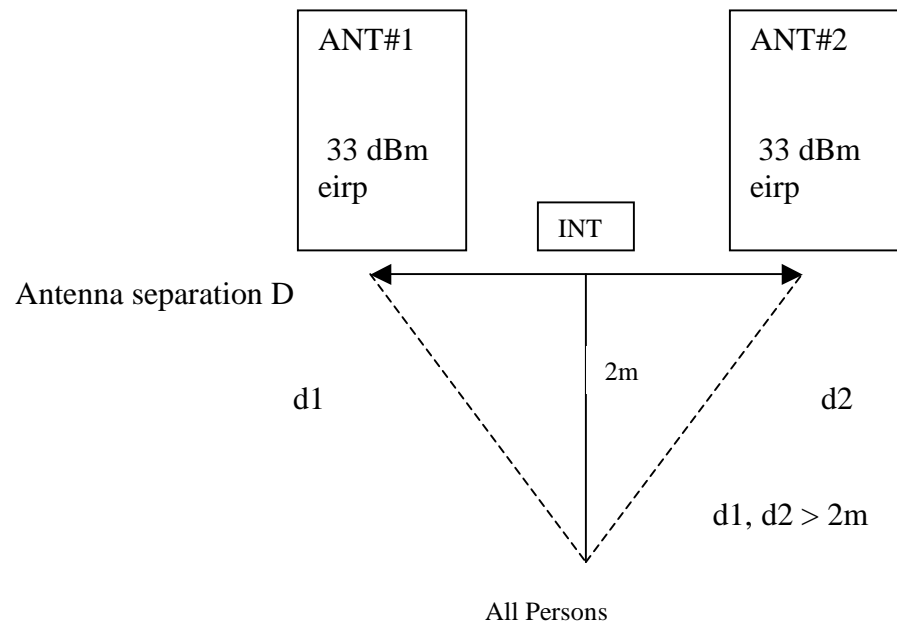
All Persons

As long as D>0, the contribution from each antenna will be lower than from two antennas located 2m away since the distance between all persons is greater than for the internal antenna located directly in front at a 2m separation, producing total of 36 dBm eirp.