



Change the values in the yellow boxes to calculate required readings
-130 or less at a range of 100 feet to meet NTIA regulations

Receive Ant Gain (dBm)	Cable Insertion Loss (dBm)	Repeater Amp Gain (dBm)	Repeater Ant Gain Best Case (dBi)	Range in Feet	Effective Isotropic Radiated Power @ Range In dBm
38	-8	21	3	100	-142.09
GPS Carrier Frequency MHz					
1575					
Total System Gain					
54					
Range in Miles					
0.02					
Total Signal Power @ Range in Watts					
6.2E-18					
Range in Meters					
31.17					
Radiated Power dBm					
-76					
Range in Kilometers					
0.03					
Transmitted Power (W)					
12.6E-12					
Effective Radiated Power (W)					
25.1E-12					
Effective Radiated Power (dBW)					
-106					