

Change the values in the yellow boxes to calculate required readings

-140 or less at a range of 100 feet to meet NTIA regulations

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain Best Case	Range in Feet
38	-9	20	3	100
	GPS Carrier Frequency MHz 1575		Total System Gain 52	Range in Miles 0.02
	Avg Receive Power L1 dBm North America -130			Range in Meters 31.17
	Free Space loss with Isotropic Antennas -66.09			Range in Kilometers 0.03

Repeated Signal Power @ Range In dBm

-144.09

Total Signal Power @ Range in Watts

3.9E-18

Radiated Power dBm

-78

Transmitted Power (W)

7.9E-12

Effective Radiated Power (W)

15.8E-12

Effective Radiated Power (dBW)

-108