Change the values in the yellow boxes to calculate required readings

-140 dBm at 100 feet from the building to meet NTIA regulations

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Repeater Ant Gain (Best Case)	Range in Feet	Repeated Signal Power @ Range In dBm	Total Signal Power @ Range in Watts
38	-12	30	3	100	-137.09	2.0e-17
I	GPS Carrier Frequency (MHz) 1575	Free Space loss with Isotropic Antennas 66.09	Total System Gain 56	Range in Miles 0.02	Effective Radiated Power dBm -73.15	Effective Radiated Power (dBW) -103.15
I	Avg Receive Power in dBm North America -130	Reference Dipole Gain 2.15	Transmitted Power (W) 2.4e-11	Range in Kilometers 0.03	Effective Isotropic Radiated Power (dBm) -71.00	Effective Isotropic Radiated Power (dBW) -101.00
	Typical value @ L1: -130.0 dBm @ L2: -127.5 dBm			Range in Meters 30.4800		Effective Radiated Power (W) 4.8e-11