

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       |
|-----------------------------------------|--------------------------|-------------------|-----------------------------|---------------------|
| 35                                      | -10                      | 25                | 3                           | 100                 |
| GPS Carrier Frequency MHz               |                          | Total System Gain |                             | Range in Miles      |
| 1575                                    |                          | 53                |                             | 0.02                |
| Avg Receive Power L1 dBm North America  |                          |                   |                             | Range in Meters     |
| -130                                    |                          |                   |                             | 31.17               |
| Free Space loss with Isotropic Antennas |                          |                   |                             | Range in Kilometers |
| -66.09                                  |                          |                   |                             | 0.03                |

**Repeated Signal Power @ Range In dBm**

-143.09

Total Signal Power @ Range in Watts

4.9E-18

Radiated Power dBm

-77

Transmitted Power (W)

10.0E-12

Effective Radiated Power (W)

20.0E-12

Effective Radiated Power (dBW)

-107