



Your source for quality GNSS Networking Solutions and Design Services, Now!

LAB WITHOUT VARIABLE ATTENUATOR-FIXED SIGNAL STRENGTH

| Receive Ant Gain | Ant Cable Insertion Loss | Repeater Amp Gain | Repeater Ant Gain Best Case | Range in Feet | Repeated Signal Power @ Range In dBm |
|---|--------------------------|-------------------|-----------------------------|---------------------|--------------------------------------|
| 33 | -16 | 38 | 3 | 100 | -138.09 |
| GPS Carrier Frequency MHz | | Total System Gain | | Range in Miles | Total Signal Power @ Range in Watts |
| 1575 | | 58 | | 0.02 | 15.5E-18 |
| Avg Receive Power L1 dBm North America | | | | Range in Meters | Radiated Power dBm |
| -130 | | | | 31.17 | -72 |
| Free Space loss with Isotropic Antennas | | | | Range in Kilometers | Transmitted Power (W) |
| -66.09 | | | | 0.03 | 31.6E-12 |
| | | | | | Effective Radiated Power (W) |
| | | | | | 63.1E-12 |
| | | | | | Effective Radiated Power (dBW) |
| | | | | | -102 |

- Cable Loss Items:
 25 ft C240 cable = -3dB
 1 ft cable = -1dB
 S12 splitter = -4dB
 75 ft C240 cable = -8dB
TOTAL LOSS = -16dB

Add Variable Attenuation values to this field to show changes in Repeated Signal Power at specific distances away from the retransmit anten



Your source for quality GNSS Networking Solutions and Design Services, Now!

na