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SECOND FLOOR LAB WITH VARIABLE ATTENUATOR

| 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 | -11 | 38 | 3 | 100 | -133.09 |
| GPS Carrier Frequency MHz | | Total System Gain | | Range in Miles | Total Signal Power @ Range in Watts |
| 1575 | | 63 | | 0.02 | 49.1E-18 |
| Avg Receive Power L1 dBm North America | | | | Range in Meters | Radiated Power dBm |
| -130 | | | | 31.17 | -67 |
| Free Space loss with Isotropic Antennas | | | | Range in Kilometers | Transmitted Power (W) |
| -66.09 | | | | 0.03 | 100.0E-12 |
| | | | | | Effective Radiated Power (W) |
| | | | | | 199.5E-12 |
| | | | | | Effective Radiated Power (dBW) |
| | | | | | -97 |

Cable Loss Items:
 25 ft C240 cable = -3dB
 1 ft cable = -1dB
 S12 splitter = -4dB
 25 ft C240 cable = -3dB

TOTAL LOSS = -11dB

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



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