

Site Information		
Antenna ID	ETL	Bldg12
Location Description	LMMFC- DAL ETL	LMMFC-DAL - BLDG12
Coordinates (NL; WL)	32-43-01; 97-01-49	32-42-57; 97-01-55
Antenna - Receiving (RX)		
Make and Model	GPS Networking L1/L2GPSA	GPS Networking L1/L2GPSA
Gain (dBi)	40	40
Coax		
Type/Description	LMR-400	LMR-400
Attenuation @ 1575 MHz (dB/100 ft)	-6	-6
Attenuation @ 1227.6 MHz (dB/100 ft)	-5.1	-5.1
Length	300	300
Coax Loss @ L1	-18	-18
Coax Loss @ L2	-15.3	-15.3
Antenna Re-Radiation (TX)		
Make and Model	GPS Networking L1/L2GRRKPA-T	GPS Networking L1/L2GRRKPA-T
Gain (dBi)	4	4
Distance to Nearest outer wall (ft)	30	20
Free Space Loss (dB) @ L1	-55.63535781	-52.11353263
Free Space Loss (dB) @ L2	-53.47088424	-49.94905906
Amplifier - Gain Control		
Make and Model	GPS Networking NVGLCDLA30RPDC	GPS Networking NVGLCDLA30RPDC
Calculations		
Total System Gain @ L1 (dB)	26	26
Total System Gain @ L2 (dB)	28.7	28.7
Radiated Power @ L1 (dBm)	-104	-104
Radiated Power @ L2 (dBm)	-103.3	-103.3
Effective Radiated Power @ L1 (dBW)	-134	-134
Effective Radiated Power @ L2 (dBW)	-133.3	-133.3
Signal Power, End of building @ L1 (dB)	-159.6353578	-156.1135326
Signal Power, End of building @ L2 (dB)	-156.7708842	-153.2490591
Signal Power, 100' outside of Building @ L1	-172.3717998	-171.6765576
Signal Power, 100' outside of Building @ L2	-160.5829551	-161.2167041