

GPS Power Control Re-radiating Worksheet Antenna A1	
L1 (1575.42 MHz)	
Site Information	
Antenna ID	A1
Location Description	South End, West Side of Final Assy Bldg
Coordinates, NAD 83, ddd-mm-ss.s	37-09-44.8 N; 095-46-21.2 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1 Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1 Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	102.0
Free Space Loss @ L1	72.16
Amplifier - Gain Control	
Make and Model	GPS Source GLI-Metro RK (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.01
* = Programmed ERP Level - Antenna Gain + 2.148 converted to pW	
** = Programmed ERP Level (includes Antenna Gain) converted to pW	
*** = Programmed ERP Level (includes Antenna Gain) - Free Space Loss + 2.148	

GPS Power Control Re-radiating Worksheet Antenna A2	
L1 (1575.42 MHz)	
Site Information	
Antenna ID	A2
Location Description	North End, West Side of Final Assy Bldg
Coordinates, NAD 83, ddd-mm-ss.s	37-09-46.1 N; 095-46-21.2 W
Antenna - Receiving (RX)	
Make and Model	GPS Source L1 Active Antenna
Gain (dBi) @ L1 (LNA included)	36
Coax	
Type or Description	C-240
Antenna - Re-radiating (TX)	
Make and Model	GPS Source L1 Passive Antenna
Antenna Height AGL (ft)	25
Gain (dBi) @ L1	3.0
Distance to nearest outer wall (ft)	102.0
Free Space Loss @ L1	72.16
Amplifier - Gain Control	
Make and Model	GPS Source GLI-Metro RK (L1, Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-70
Transmit Power at Terminal (pW)*	82.19
Transmit Power from Antenna (pW ERP)**	100.00
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)***	-140.01
* = Programmed ERP Level - Antenna Gain + 2.148 converted to pW	
** = Programmed ERP Level (includes Antenna Gain) converted to pW	
*** = Programmed ERP Level (includes Antenna Gain) - Free Space Loss + 2.148	