GPS Power Control Re-radiating Worksheet Antenna 1		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A1	A1
Location Description	South Wall of Lab	South Wall of Lab
Coordinates, NAD 83, ddd-mm-ss.s	42-32-16.4 N; 071-09-23.2 W	42-32-16.4 N; 071-09-23.2 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	0.0	0.0
Free Space Loss @ L1 and L2	66.06	63.89
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-79	-79
Transmit Power at Terminal (pW)*	10.35	10.35
Transmit Power from Antenna (pW ERP)**	12.59	12.59
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-142.91**	**-140.74**

*** = 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 2		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A2	A2
Location Description	NE Wall of Lab	NE Wall of Lab
Coordinates, NAD 83, ddd-mm-ss.s	42-32-16.7 N; 071-09-23.3 W	42-32-16.7 N; 071-09-23.3 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	29.0	29.0
Free Space Loss @ L1 and L2	68.27	66.10
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-77	-77
Transmit Power at Terminal (pW)*	16.40	16.40
Transmit Power from Antenna (pW ERP)**	19.95	19.95
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-143.12**	**-140.95**

*** = 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 3		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A3	A3
Location Description	NE Wall of Lab	NE Wall of Lab
Coordinates, NAD 83, ddd-mm-ss.s	42-32-17.0 N; 071-09-23.6 W	42-32-17.0 N; 071-09-23.6 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	53.0	53.0
Free Space Loss @ L1 and L2	69.75	67.58
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-75	-75
Transmit Power at Terminal (pW)*	25.99	25.99
Transmit Power from Antenna (pW ERP)**	31.62	31.62
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-142.60**	**-140.43**

*** = 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 4		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A4	A4
Location Description	NE Wall of Lab	NE Wall of Lab
Coordinates, NAD 83, ddd-mm-ss.s	42-32-17.2 N; 071-09-23.8 W	42-32-17.2 N; 071-09-23.8 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	53.0	53.0
Free Space Loss @ L1 and L2	69.75	67.58
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-75	-75
Transmit Power at Terminal (pW)*	25.99	25.99
Transmit Power from Antenna (pW ERP)**	31.62	31.62
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-142.60**	**-140.43**

*** = 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 5		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A5	A5
Location Description	NE Wall of Lab	NE Wall of Lab
Coordinates, NAD 83, ddd-mm-ss.s	42-32-17.4 N; 071-09-24.2 W	42-32-17.4 N; 071-09-24.2 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	53.0	53.0
Free Space Loss @ L1 and L2	69.75	67.58
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-75	-75
Transmit Power at Terminal (pW)*	25.99	25.99
Transmit Power from Antenna (pW ERP)**	31.62	31.62
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-142.60**	**-140.43**

*** = 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 6		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A6	A6
Location Description	SW Lab Area	SW Lab Area
Coordinates, NAD 83, ddd-mm-ss.s	42-32-16.3 N; 071-09-23.7 W	42-32-16.3 N; 071-09-23.7 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	24.0	24.0
Free Space Loss @ L1 and L2	67.92	65.76
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-77	-77
Transmit Power at Terminal (pW)*	16.40	16.40
Transmit Power from Antenna (pW ERP)**	19.95	19.95
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-142.77**	**-140.61**

*** = 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 7		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A7	A7
Location Description	Room 9051A	Room 9051A
Coordinates, NAD 83, ddd-mm-ss.s	42-32-16.9 N; 071-09-24.2 W	42-32-16.9 N; 071-09-24.2 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	85.0	85.0
Free Space Loss @ L1 and L2	71.40	69.23
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-73	-73
Transmit Power at Terminal (pW)*	41.19	41.19
Transmit Power from Antenna (pW ERP)**	50.12	50.12
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-142.25**	**-140.08**

*** = 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 8		
	L1 (1575.42 MHz)	**L2 (1227.6 MHz)**
Site Information		
Antenna ID	A8	A8
Location Description	Room 9051A	Room 9051A
Coordinates, NAD 83, ddd-mm-ss.s	42-32-16.6 N; 071-09-24.5 W	42-32-16.6 N; 071-09-24.5 W
Antenna - Receiving (RX)		
Make and Model	GPS Source L1L2-2GA	GPS Source L1L2-2GA
Gain (dBi) @ L1 & L2 (LNA included)	36	36
Coax		
Type or Description	C-240	C-240
Antenna - Re-radiating (TX)		
Make and Model	GPS Source L1L2-2GP	GPS Source L1L2-2GP
Antenna Height AGL (ft)	10	10
Gain (dBi) @ L1 and L2	3.0	3.0
Distance to nearest outer wall (ft)	69.0	69.0
Free Space Loss @ L1 and L2	70.61	68.45
Amplifier - Gain Control		
Make and Model	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)	GPS Source GLI-Metro RK (Oscillation Detect, Antenna Alarm Monitor)
ERP Level Setting on Controller (includes antenna gain) in dBm	-74	-74
Transmit Power at Terminal (pW)*	32.72	32.72
Transmit Power from Antenna (pW ERP)**	39.81	39.81
Calculated Signal Strength 100 ft Outside Building (dBm EIRP)* **	**-142.46**	**-140.30**

*** = 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**