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Change the values in the yellow boxes to calculate required readings

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp Gain	Splitter Loss/Ga	Repeater	Range in Feet	EIRP @ Range In dBm	ERP
40	-27.97	30	11	3	100	-140.29	-142.44
	Total System Gain :	56.03	dB		Total Si	ignal Power @ Range 9.4E-18	in Watts
GPS	Carrier Frequency MHz :	1575	MHz		Range in Meters	Radiated Power dBr	n
					31.17	-73.97	
Avg Receive Po	wer L1 dBm N. America :	-130	dBm				
Free Space loss	with Isotropic Antennas :	-66.32	dB		Transmitted Power (W) 20.1E-12		
TX Pwr (dBm) to antenna = -130 dBm + 57.03 - 3 dB (Re		3 - 3 dB (Repeat	ter Ant Gaiı	n) = <b>-76.97</b>	Effective Isotropic Radiated Power (W		ower (W)
						40.1E-12	24.44 pW EF

Effective Radiated Power (dBW) -103.97

	EiRP	ERP	
TX Pwr (dBm) to antenna	-76.97	-76.97	dBm
Repeater Ant Gain	3	0.85	dBi/dBd
Total Power radiated	-73.97	-76.12	dBm
FSPL (100 ft)	-66.32	-66.32	dB
EiRP/ERP @ 100 ft	-140.29	-142.44	dBm
Effective Radiated Power	-103.97	-106.12	dBW
Effective Radiated Power	40.1	24.4	pW
	EiRP	ERP	