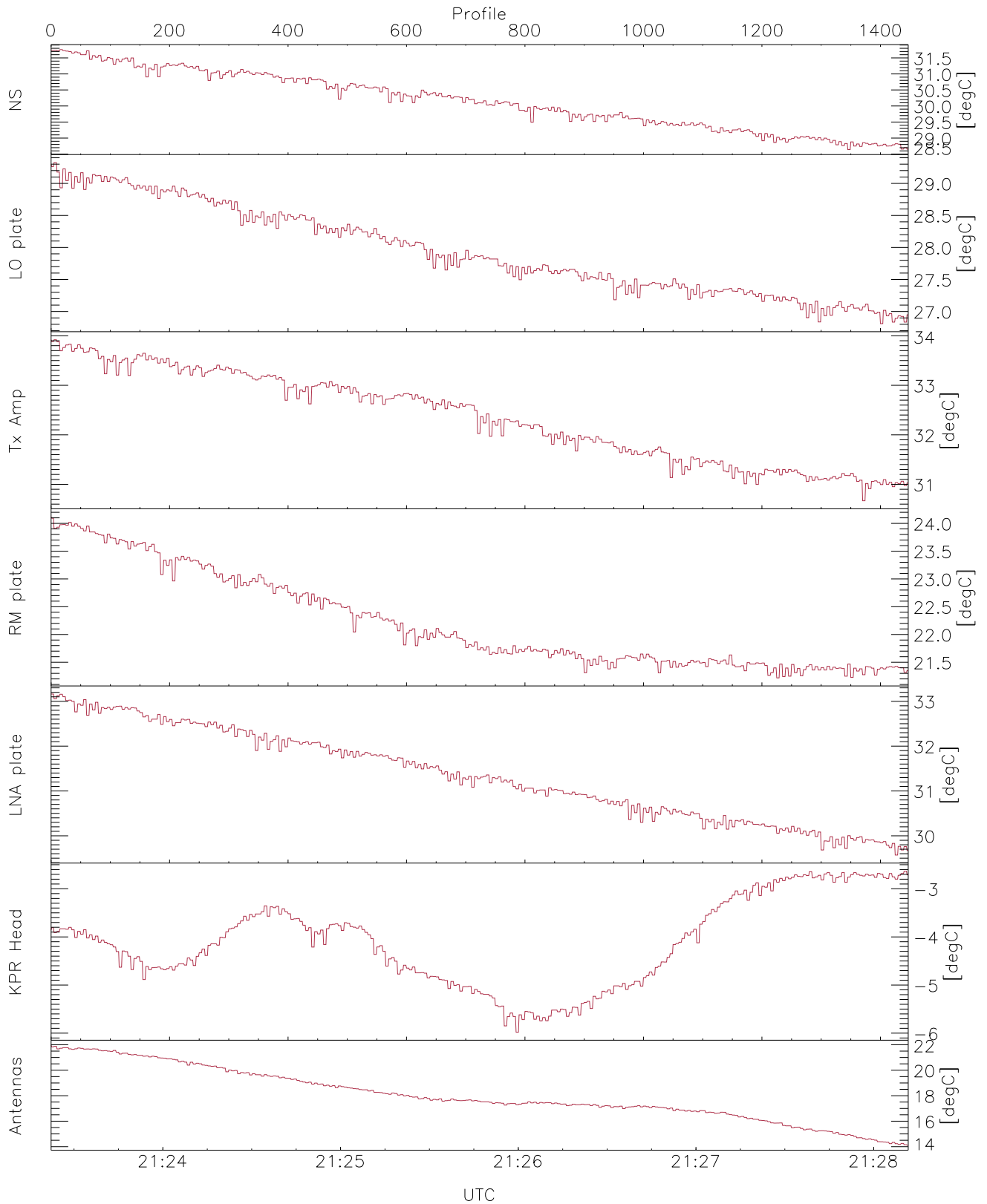


KPR SPP; Ant(s): UP, DOWN; Radiometer: OFF  
 UTC: 21:23:22-21:28:12, TimeCor: 0.00s, Dur: 289.40s  
 TimeInt(min,max,mn,std): 186.8,213.1,200.0,0.9 ms; PPS: 5.0  
 NumRec(r/t): 1448/1448, 0-1447/21:23:22-21:28:12  
 AcqTime(req,actual): 200.0,200.0 ms, Data Rate: 187.6 KB/s  
 Pulse: 247 ns, Chirp: 2.47 us, DRxIF: 5.0 MHz  
 PRF: 20.0 KHz, avgPulses: 2000, avgPP: 1000  
 NyquistVel: 42.1 m/s, RangeRes:30.0 m  
 Pulse Range(min,max): 120, 6506 m, Gates: 427  
 Chirp Range(min,max): 536, 6487 m, Gates: 398  
 RangeGateSampling: 15.0 m, Aspect: 0.8

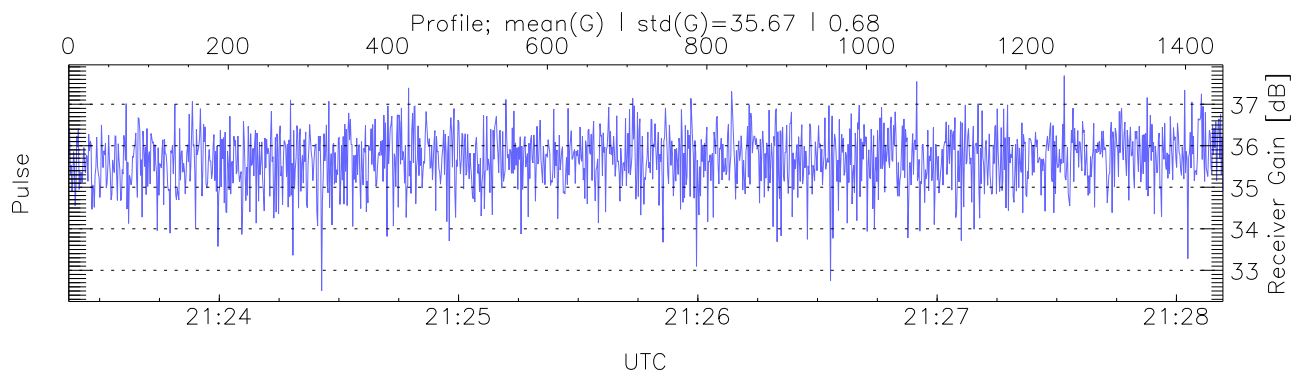
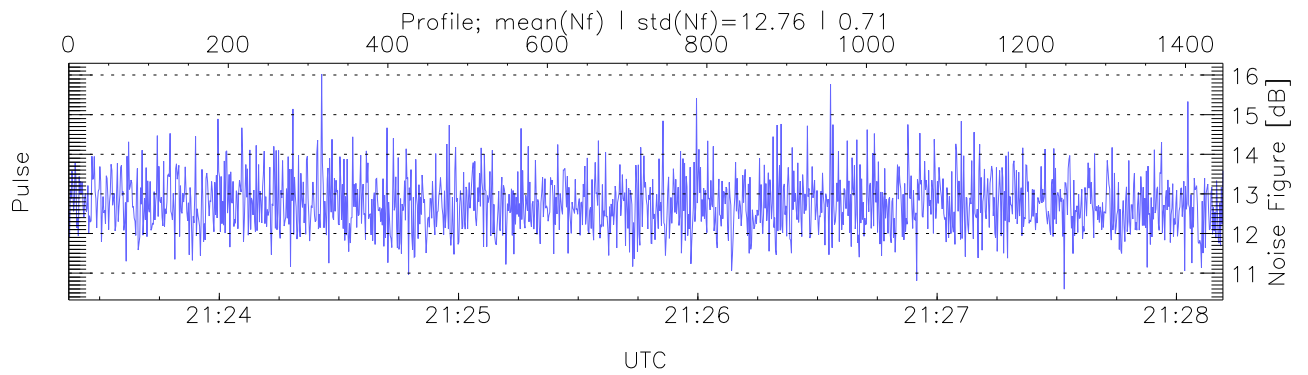
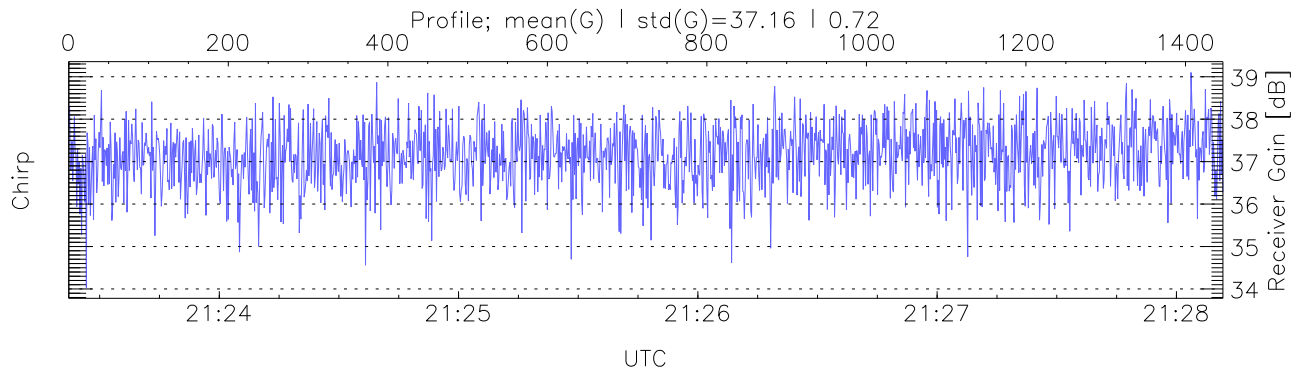
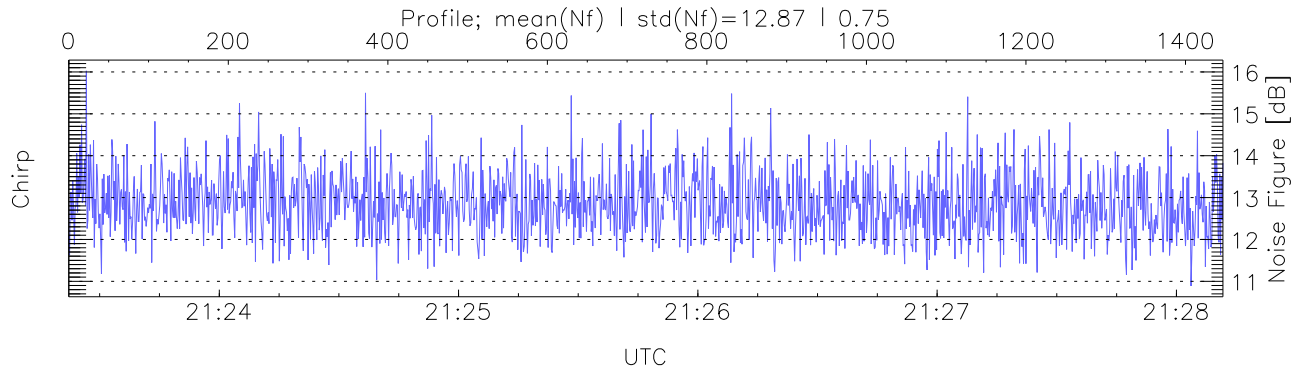


KPR SPP Temperatures, Power Supplies, PLO lock:

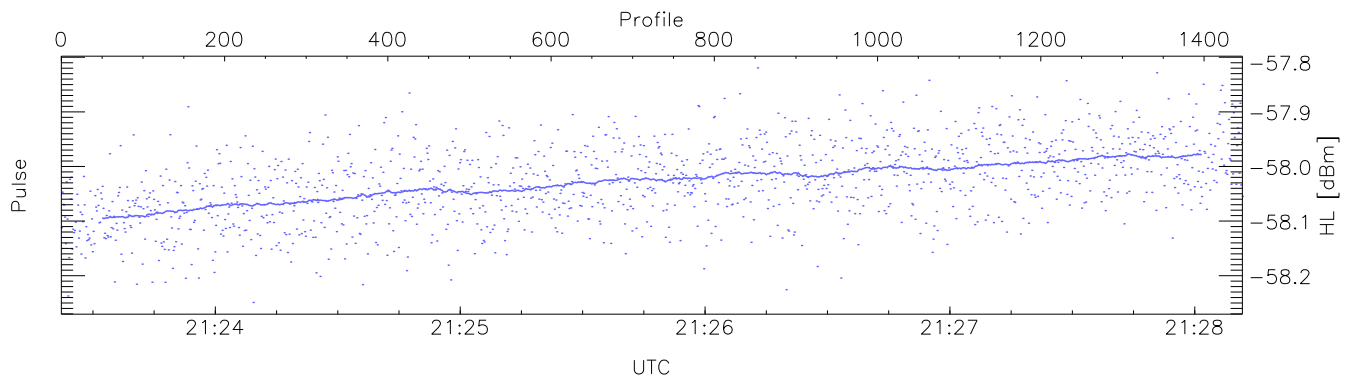
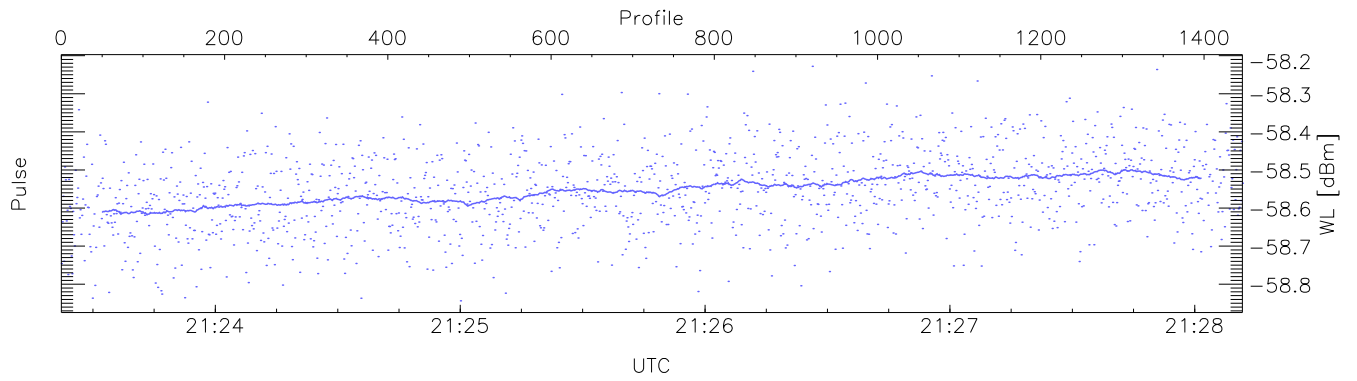
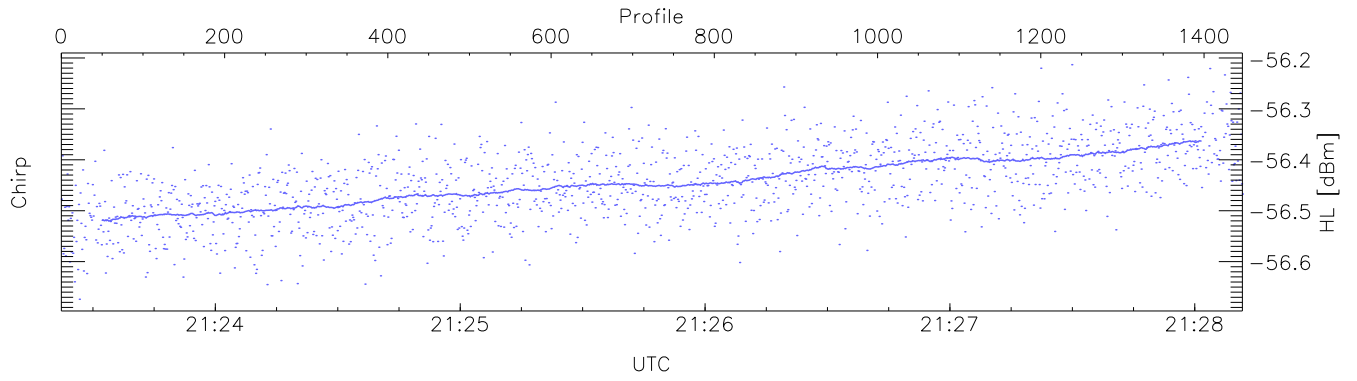
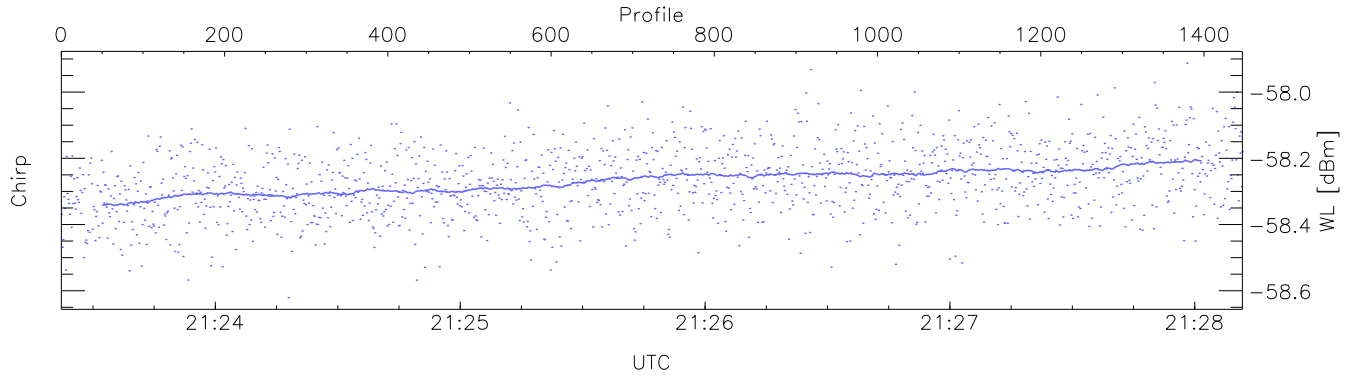
temperature: NS, LO, Tx, RM, LNA, Head, Ant  
 mintempC: 28.6, 26.8, 30.7, 21.2, 29.6, -6.0, 14.1  
 maxtempC: 31.8, 29.3, 33.9, 24.1, 33.2, -2.6, 22.0  
 meantempC: 30.1, 27.9, 32.3, 22.2, 31.3, -4.1, 18.0

PwrSply: 28, 12, 8, 5 VDC  
 minVDC: 26.00, 11.69, 7.87, 5.21  
 maxVDC: 27.82, 11.73, 7.89, 5.23  
 meanVDC: 27.01, 11.71, 7.88, 5.22

PLO(3.84,15.84 GHz) unlocked: None

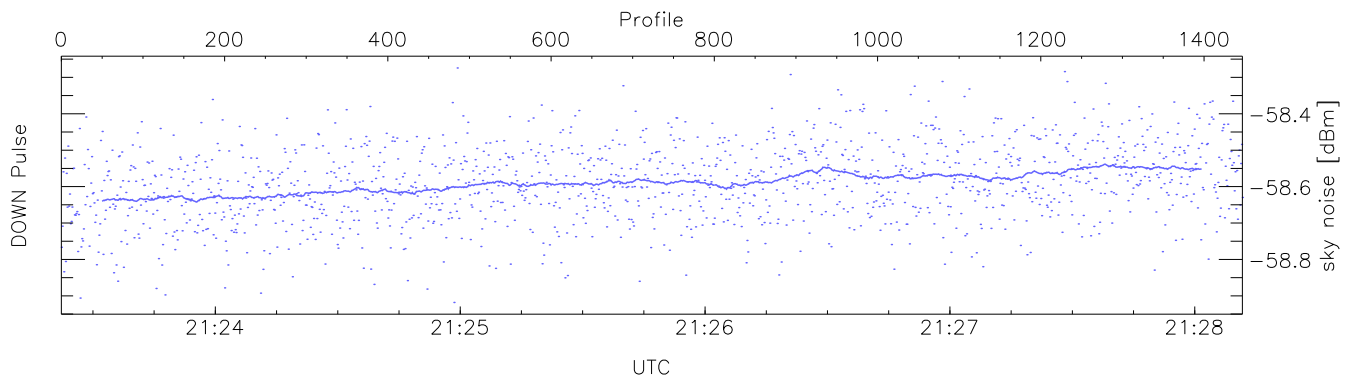
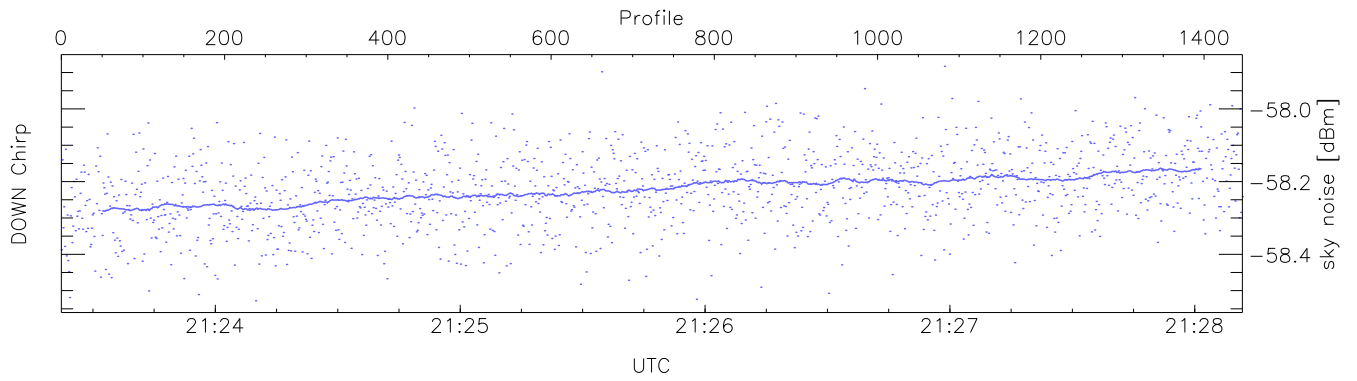
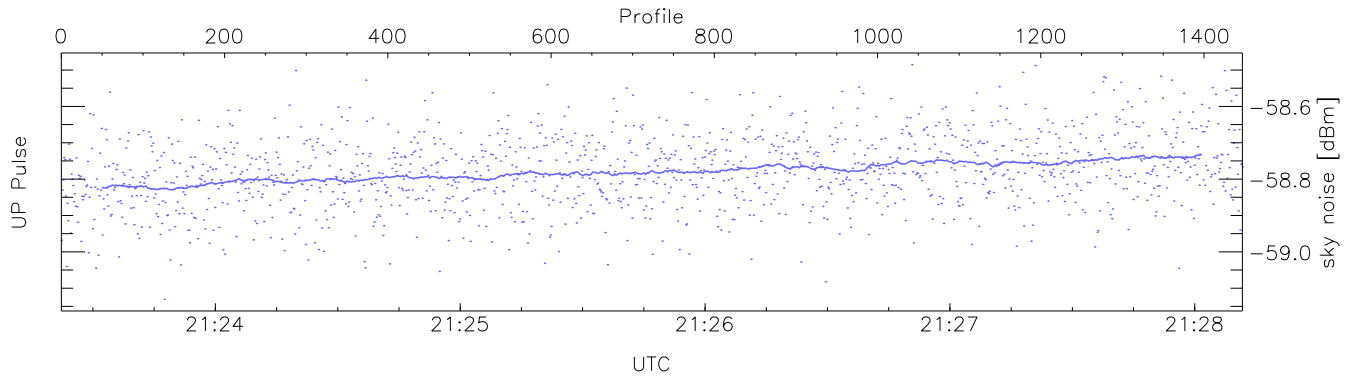
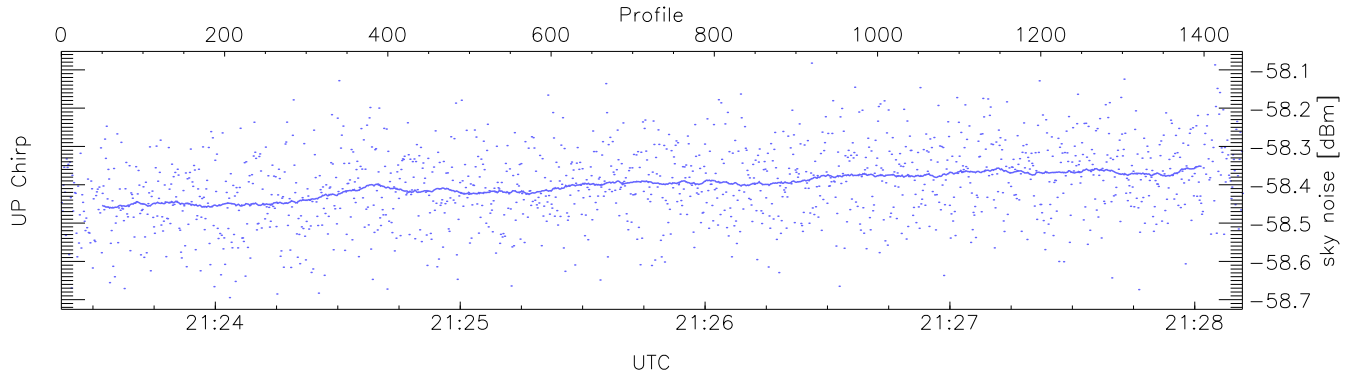


KPR SPP Receiver Gain and Noise Figure



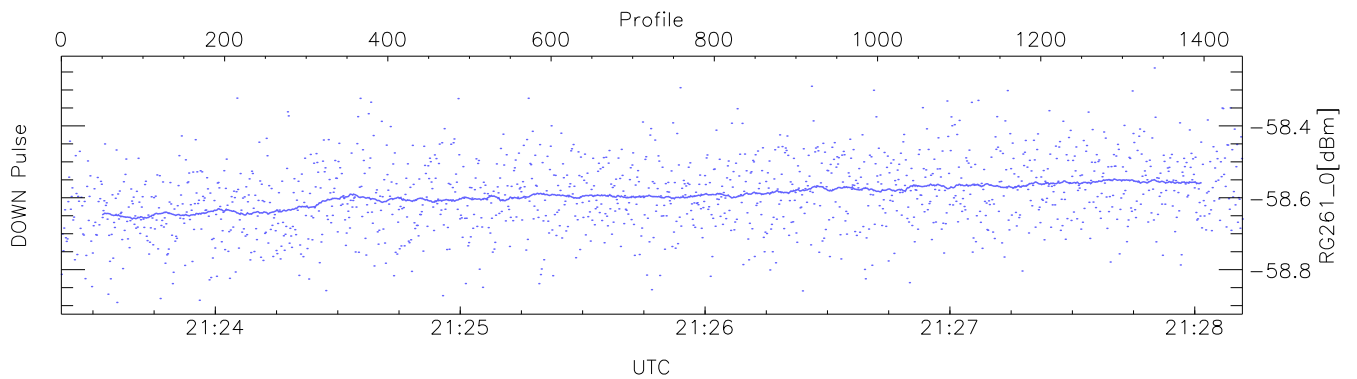
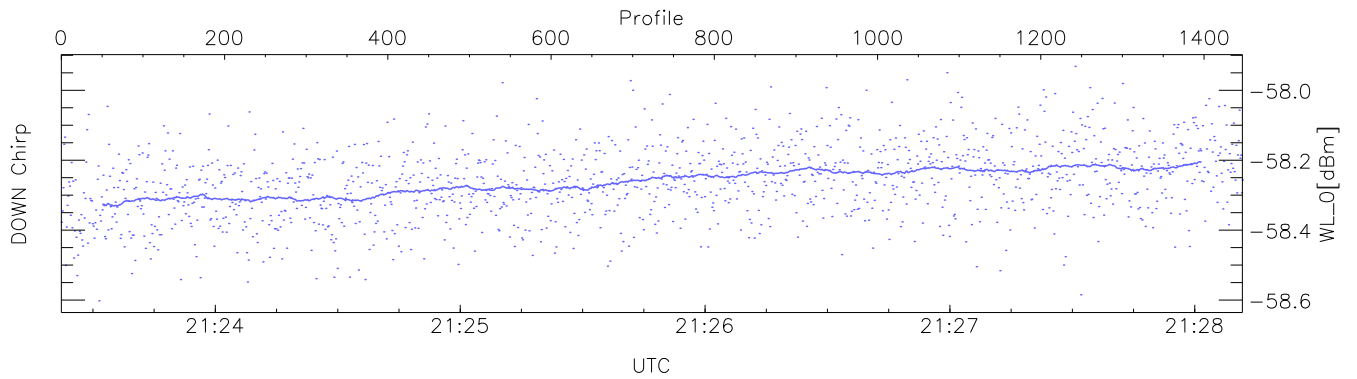
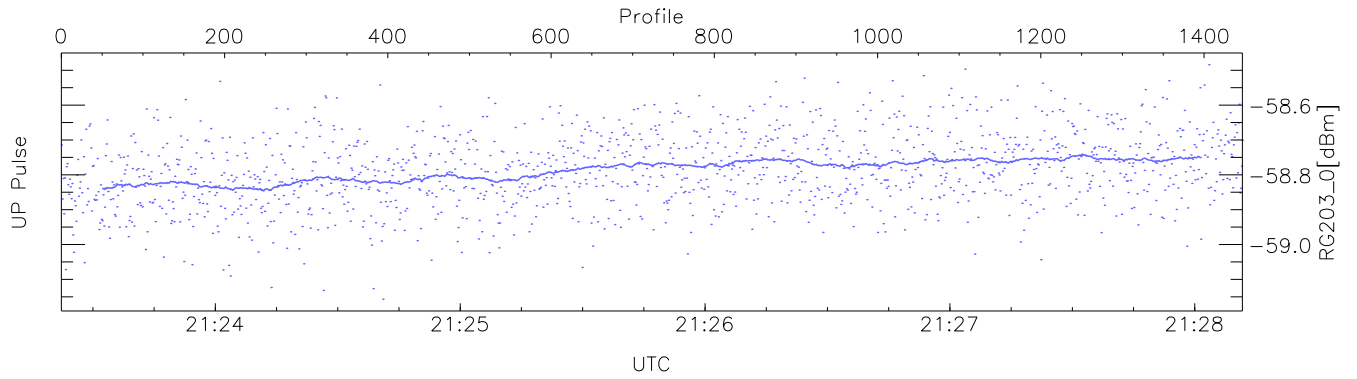
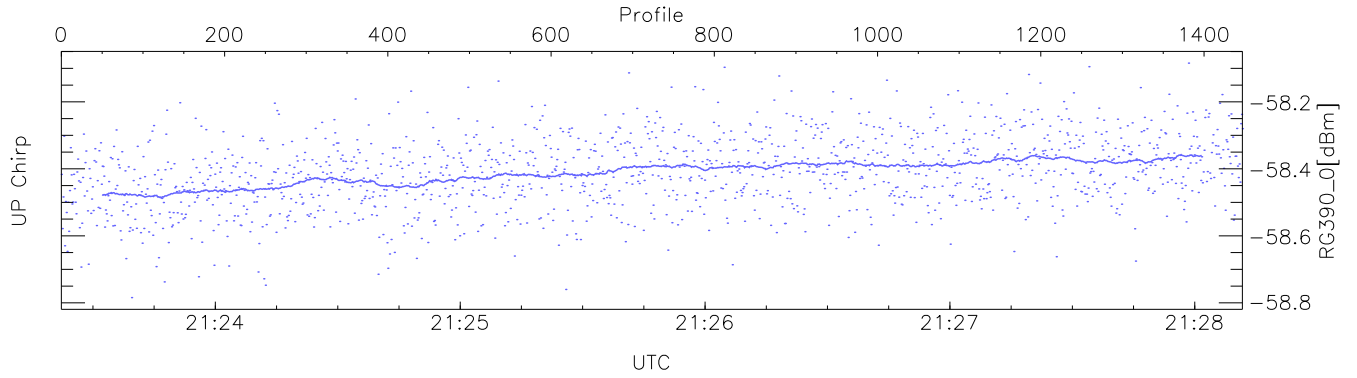
KPR SPP Receiver Noise Source Warm and Hot Measurements

	Min	Max	Mean	Median	StDev
Chirp(WL [dBm])	-58.62	-57.91	-58.27	-58.27	-74.58
Chirp(HL [dBm])	-56.67	-56.21	-56.44	-56.45	-74.08
Pulse(WL [dBm])	-58.84	-58.23	-58.55	-58.55	-74.88
Pulse(HL [dBm])	-58.25	-57.82	-58.03	-58.03	-76.04



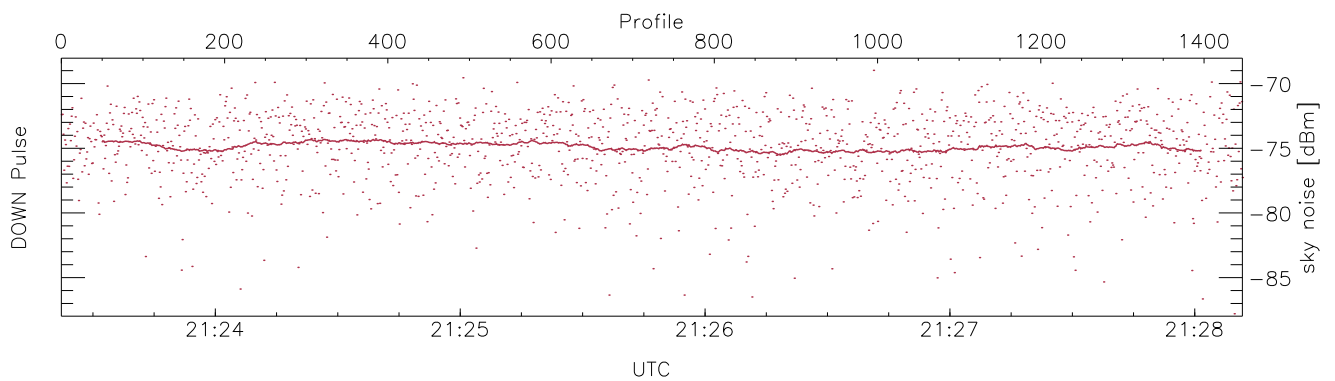
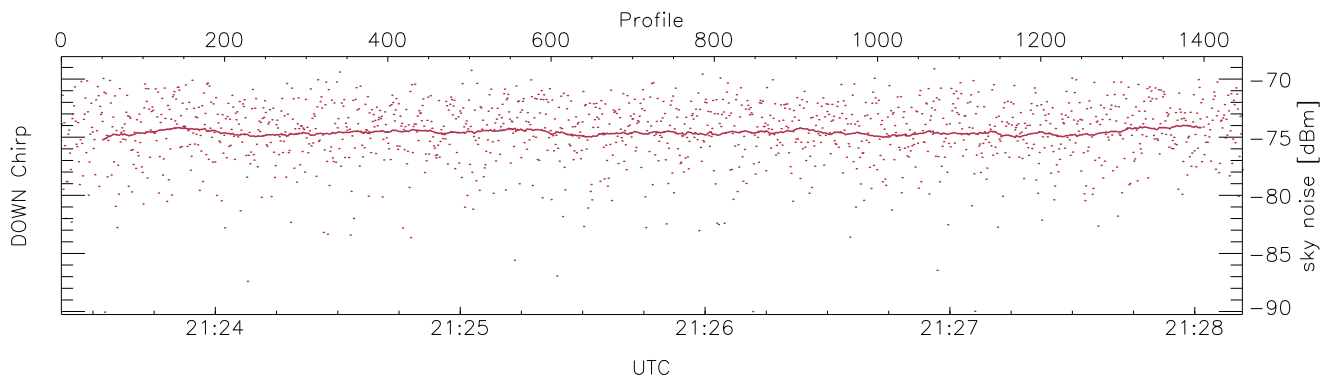
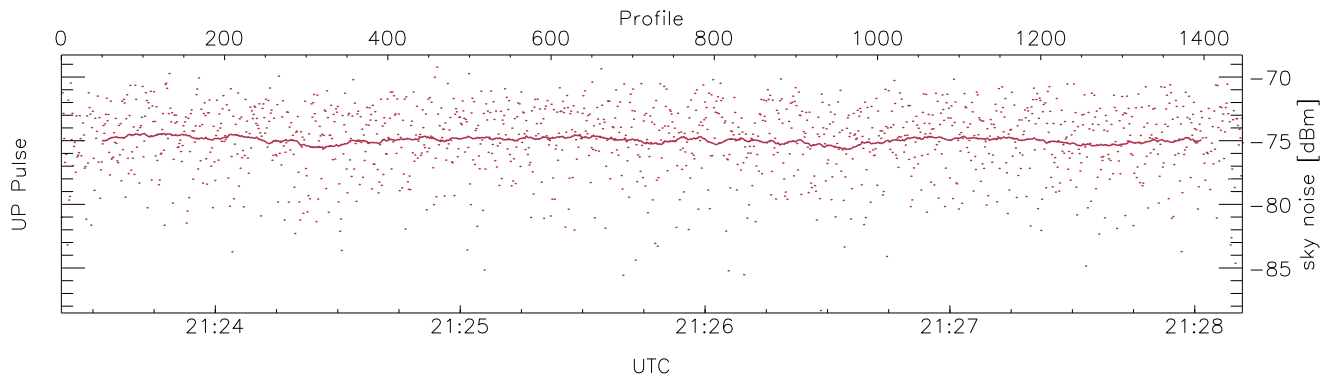
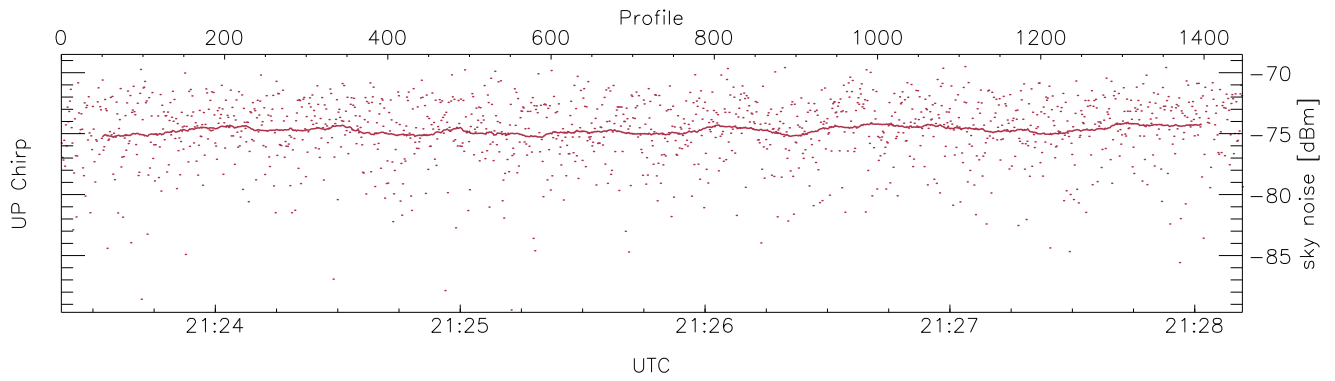
KPR SPP Last range gate power measurements: assumed RM(sky) noise

	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-58.69	-58.08	-58.40	-58.40	-74.70
UP Pulse(dBm)	-59.13	-58.49	-58.78	-58.78	-75.28
DOWN Chirp(dBm)	-58.53	-57.88	-58.22	-58.22	-74.59
DOWN Pulse(dBm)	-58.92	-58.27	-58.59	-58.59	-74.83



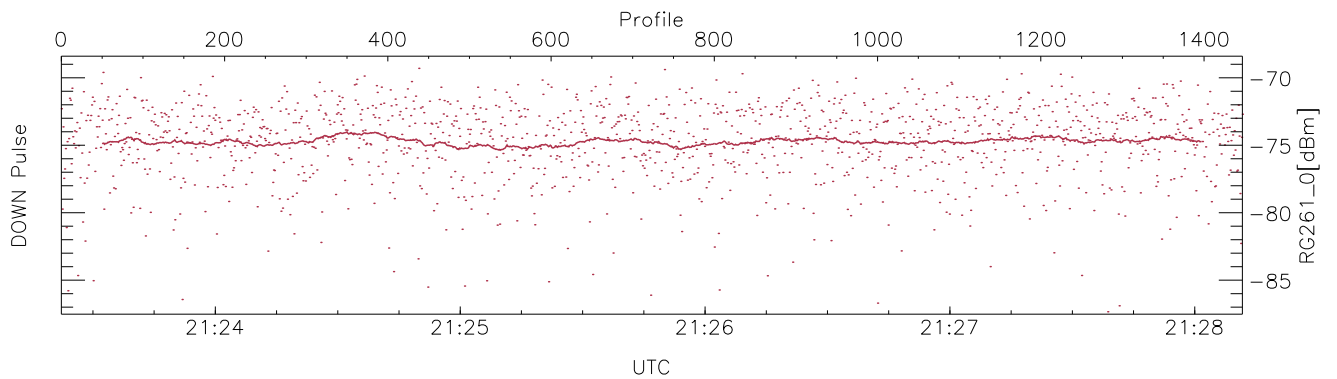
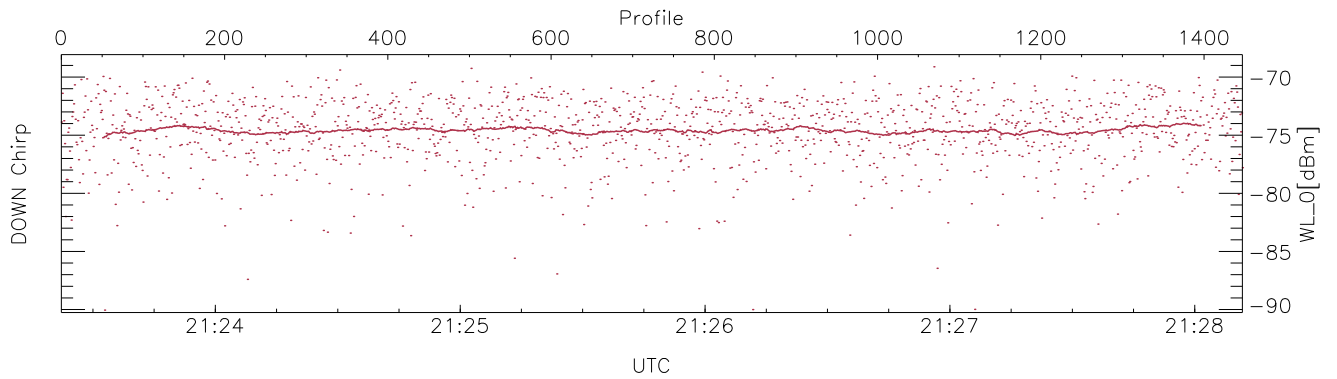
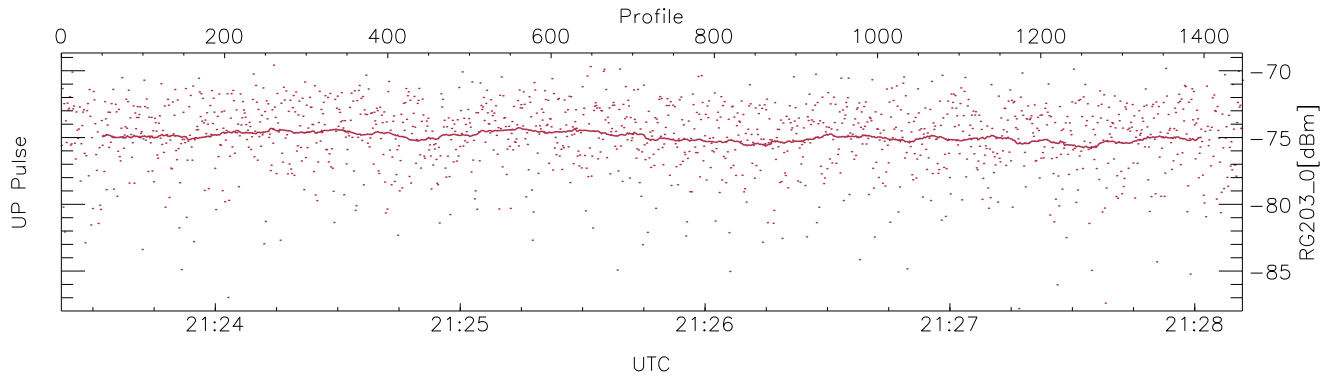
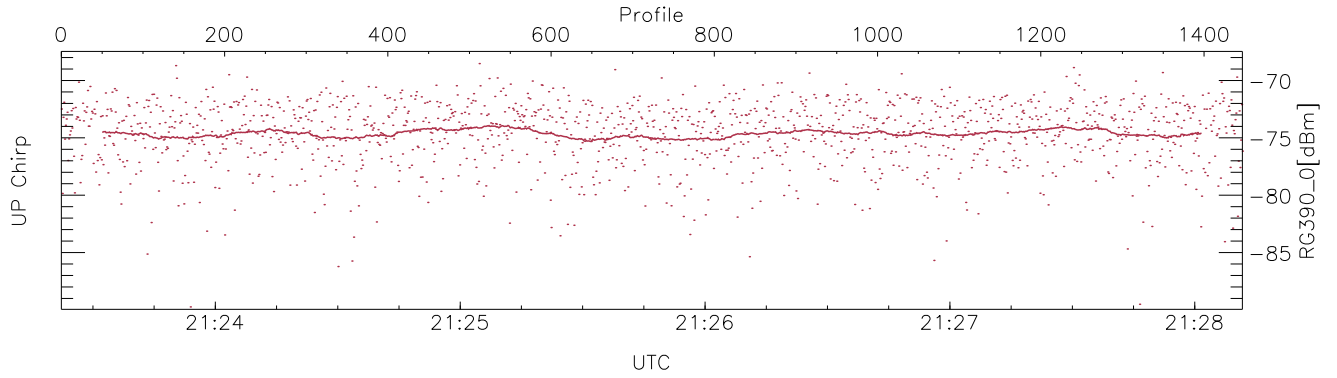
KPR SPP "Best" noise power measurements (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-58.78	-58.08	-58.41	-58.41	-74.55
UP_P_RG203_0	-59.16	-58.48	-58.79	-58.79	-75.07
DOWN_C_WL_0	-58.60	-57.93	-58.26	-58.26	-74.49
DOWN_P_RG261_0	-58.89	-58.24	-58.59	-58.60	-74.90



KPR SPP Last range gate PPMAG: assumed RM(sky) noise

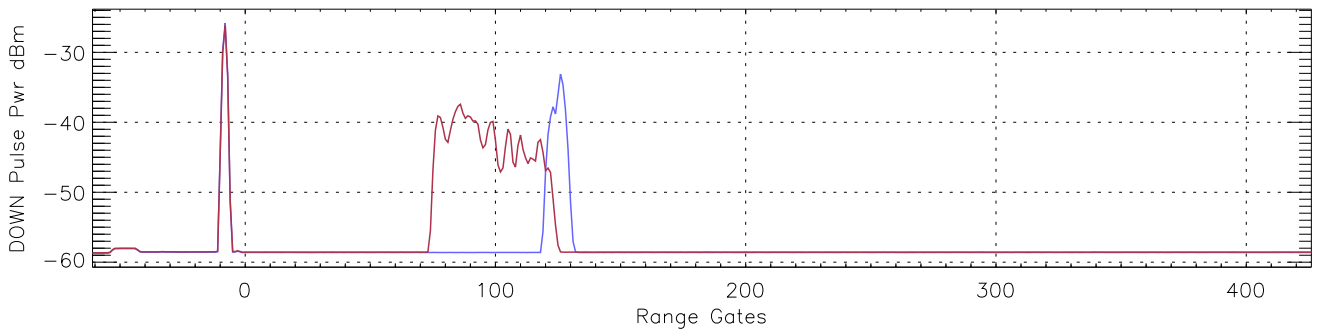
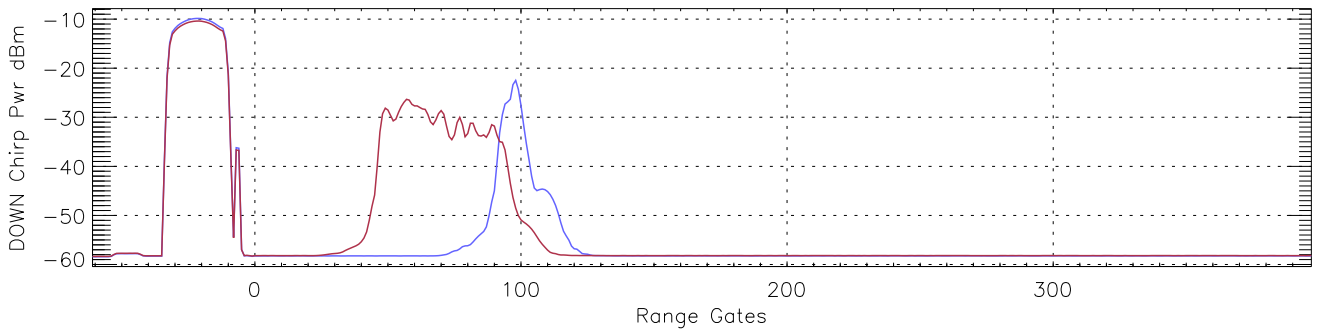
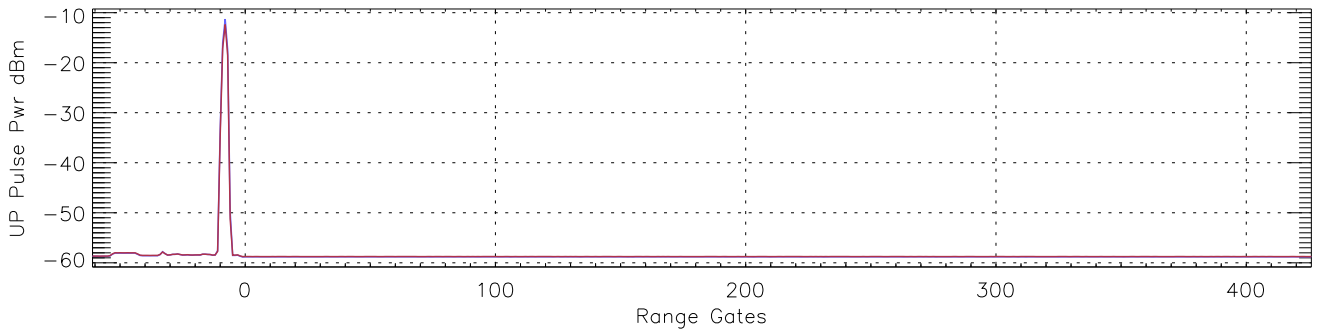
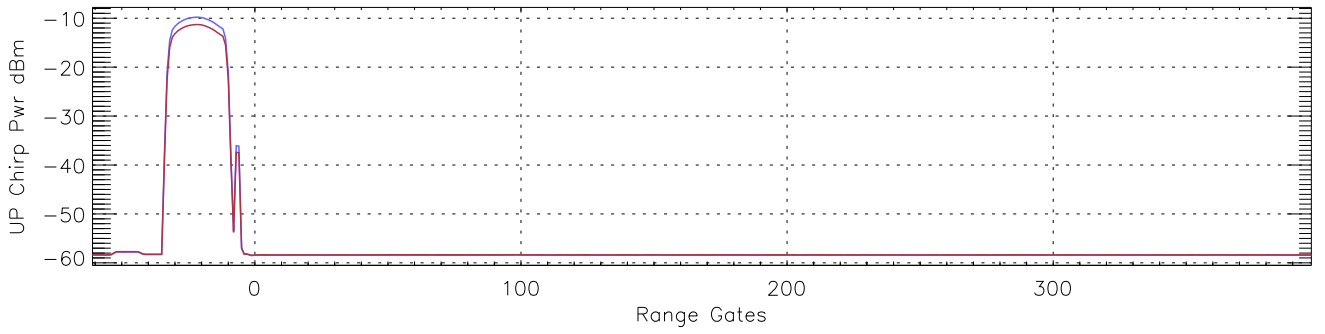
	Min	Max	Mean	Median	StDev
UP Chirp(dBm)	-89.46	-69.50	-74.02	-74.31	-76.93
UP Pulse(dBm)	-88.34	-69.23	-74.22	-74.54	-76.93
DOWN Chirp(dBm)	-90.05	-69.11	-73.88	-74.17	-76.70
DOWN Pulse(dBm)	-87.79	-68.98	-74.13	-74.43	-76.84



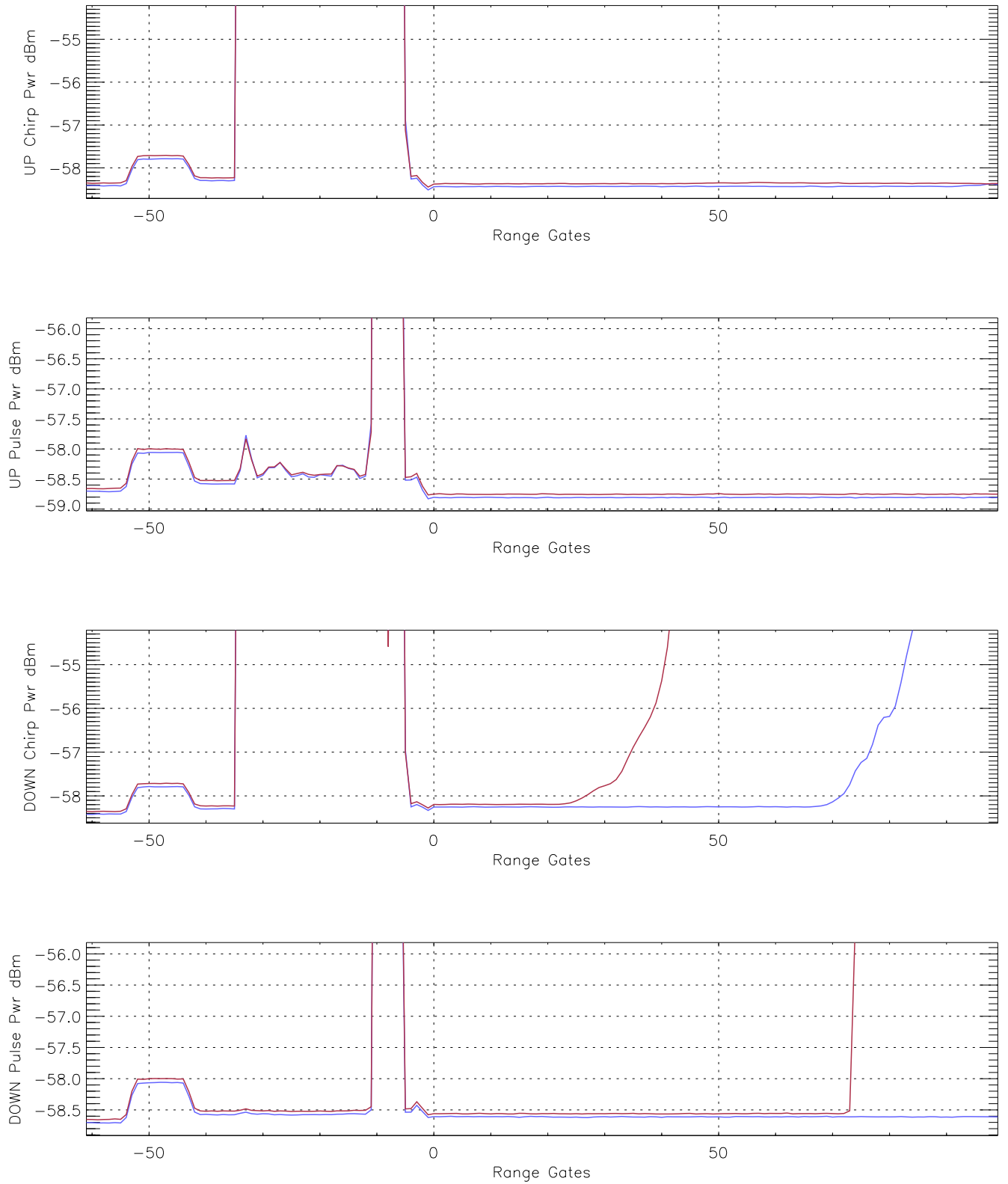
KPR SPP "Best" PPMAG noise (dBm):

	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-89.74	-68.53	-73.91	-74.14	-76.69
UP_P_RG203_0	-87.81	-69.58	-74.26	-74.47	-77.13
DOWN_C_WL_0	-90.05	-69.11	-73.88	-74.17	-76.70
DOWN_P_RG261_0	-87.34	-69.30	-74.01	-74.32	-76.81

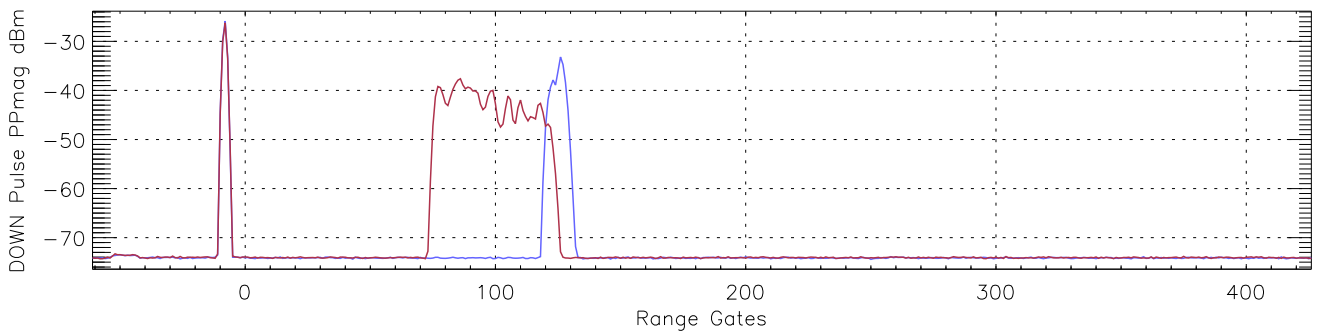
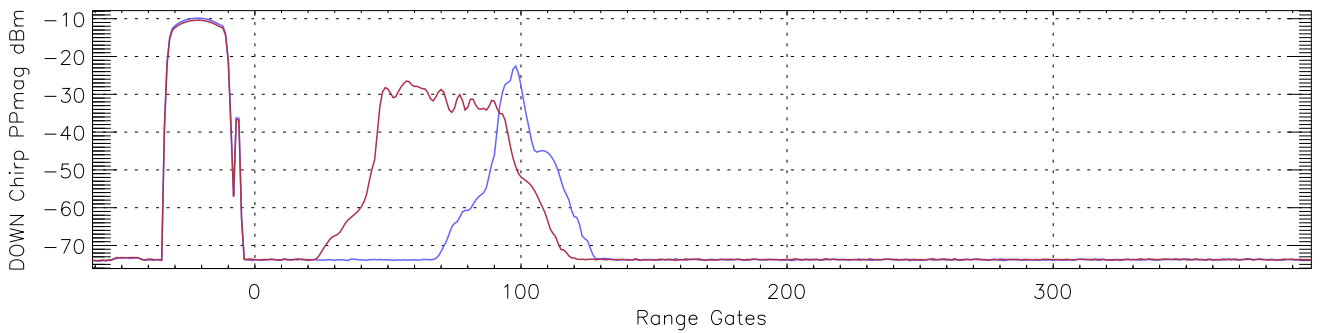
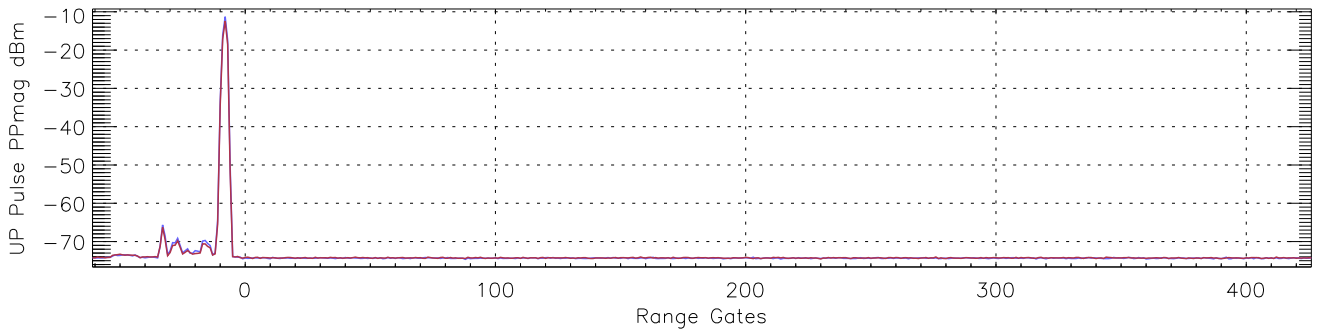
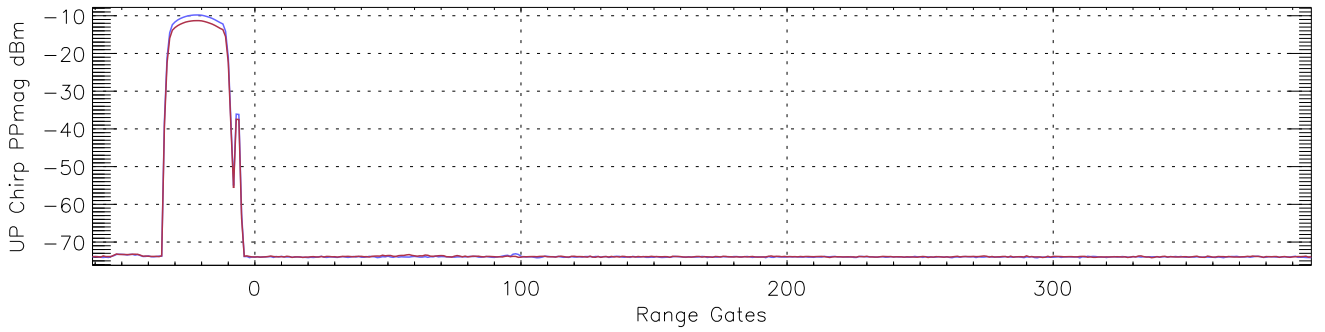




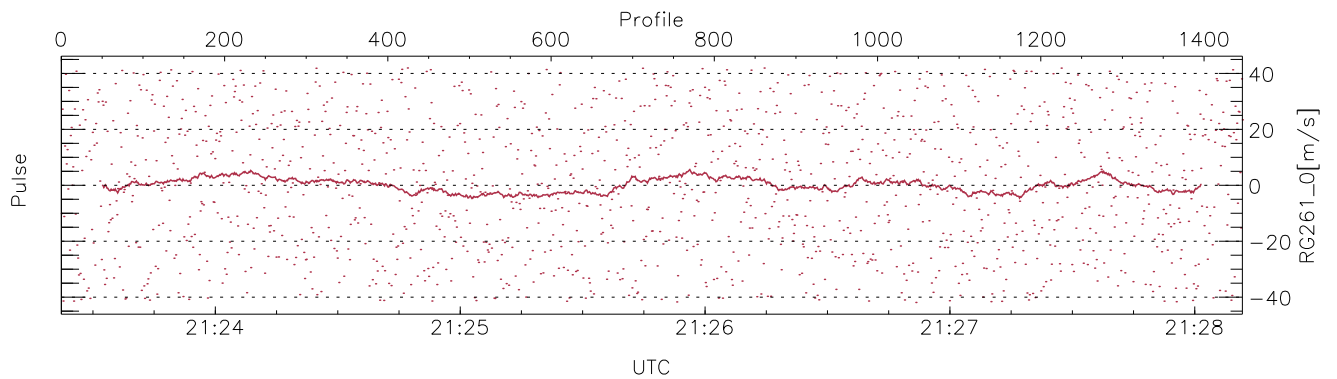
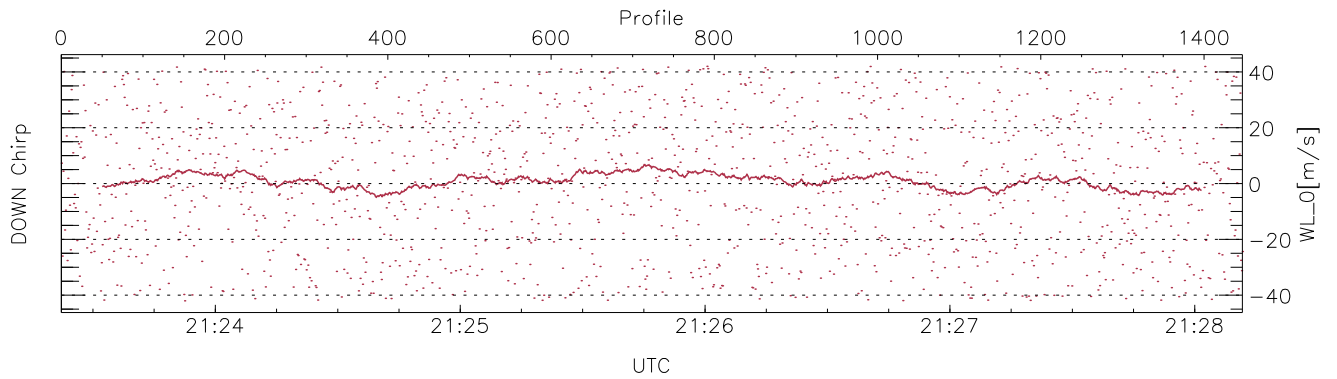
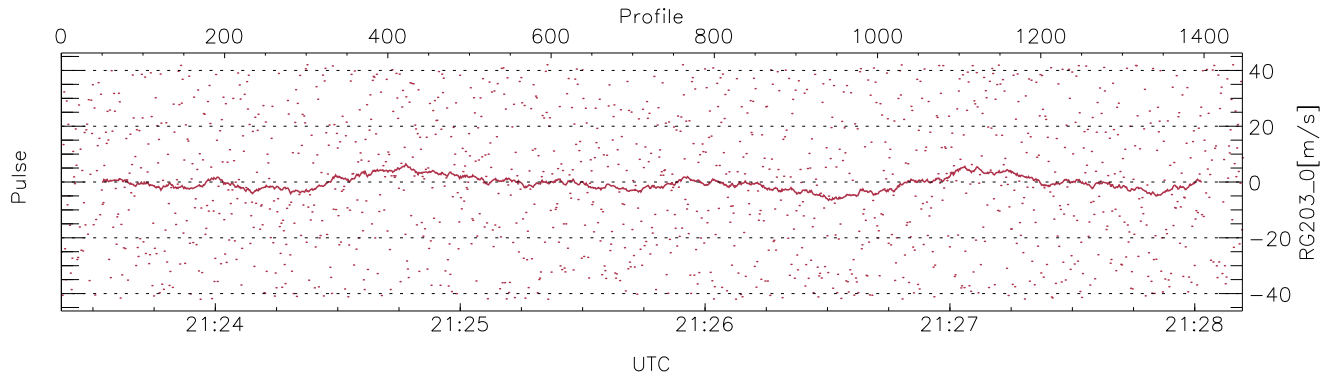
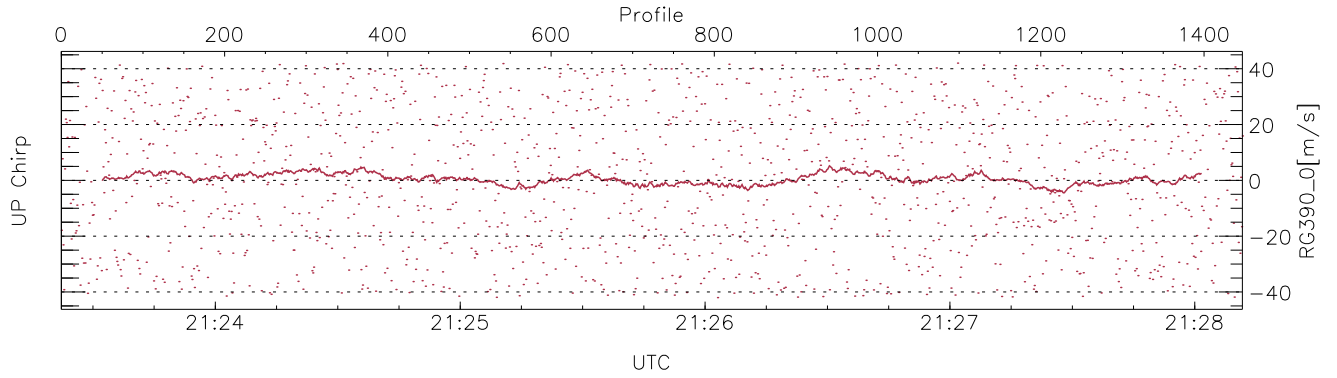
KPR SPP Averaged Received power for all recorded gates  
blue: 212322-212546, 725 profiles averaged  
red: 212546-212812, 724 profiles averaged



KPR SPP Averaged Power for neg. gates & up to 100 gates  
blue: 212322-212546, 725 profiles averaged  
red: 212546-212812, 724 profiles averaged

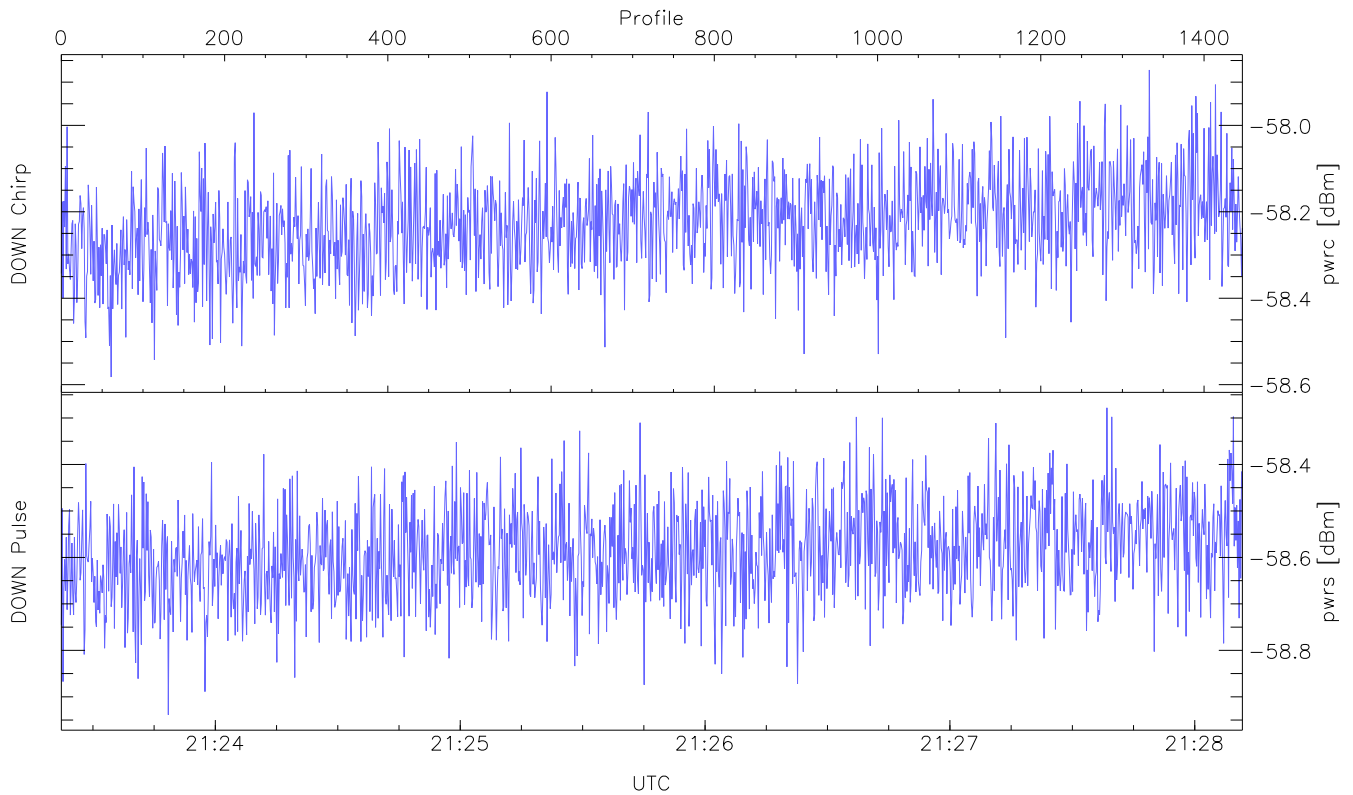
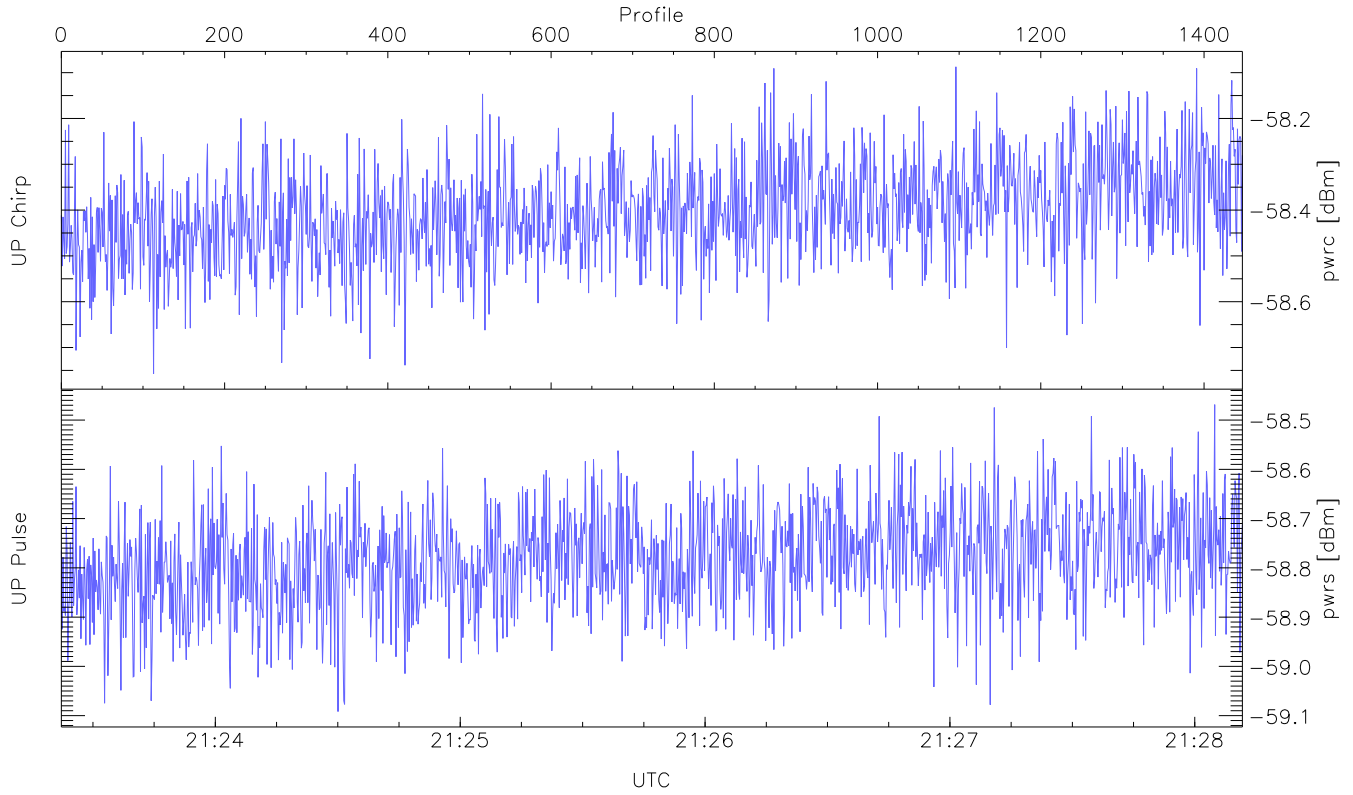


KPR SPP Averaged PP magnitude for all recorded gates  
blue: 212322-212546, 725 profiles averaged  
red: 212546-212812, 724 profiles averaged



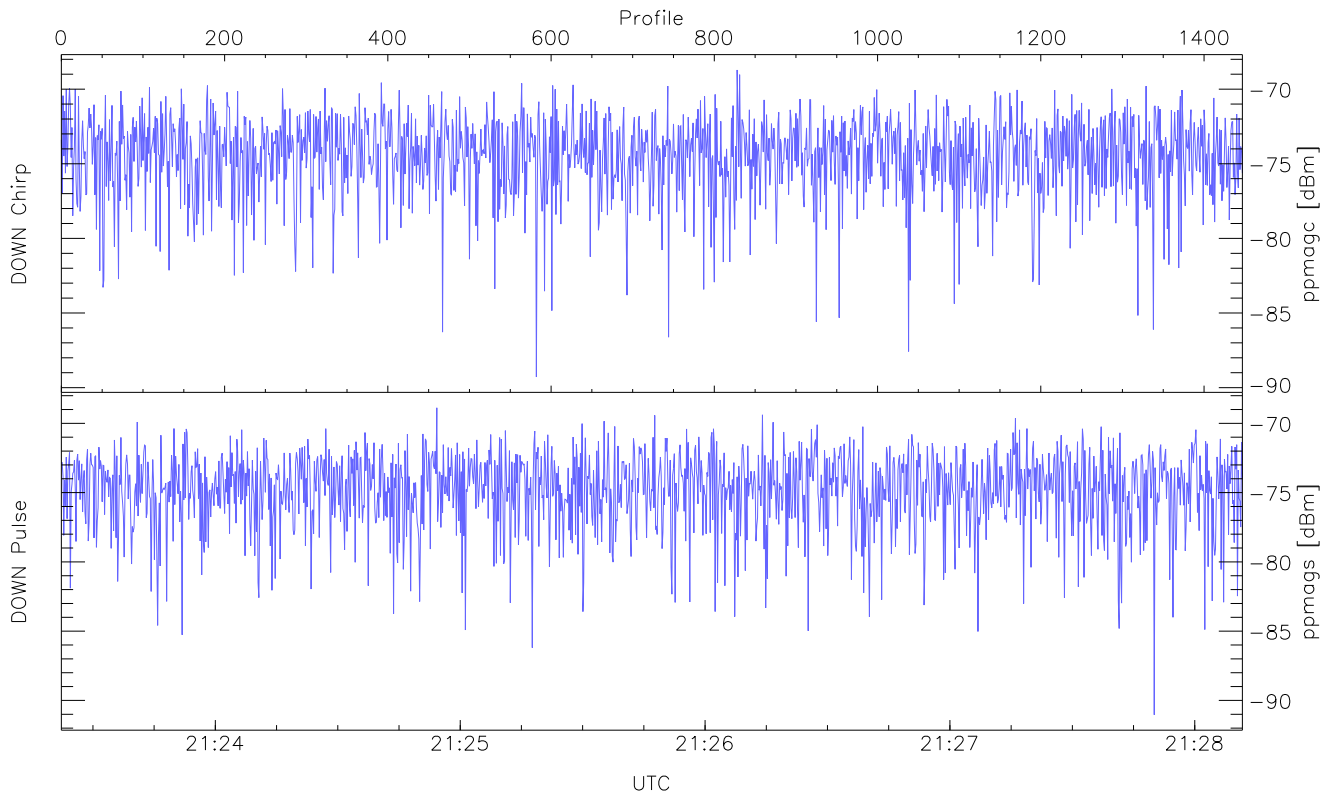
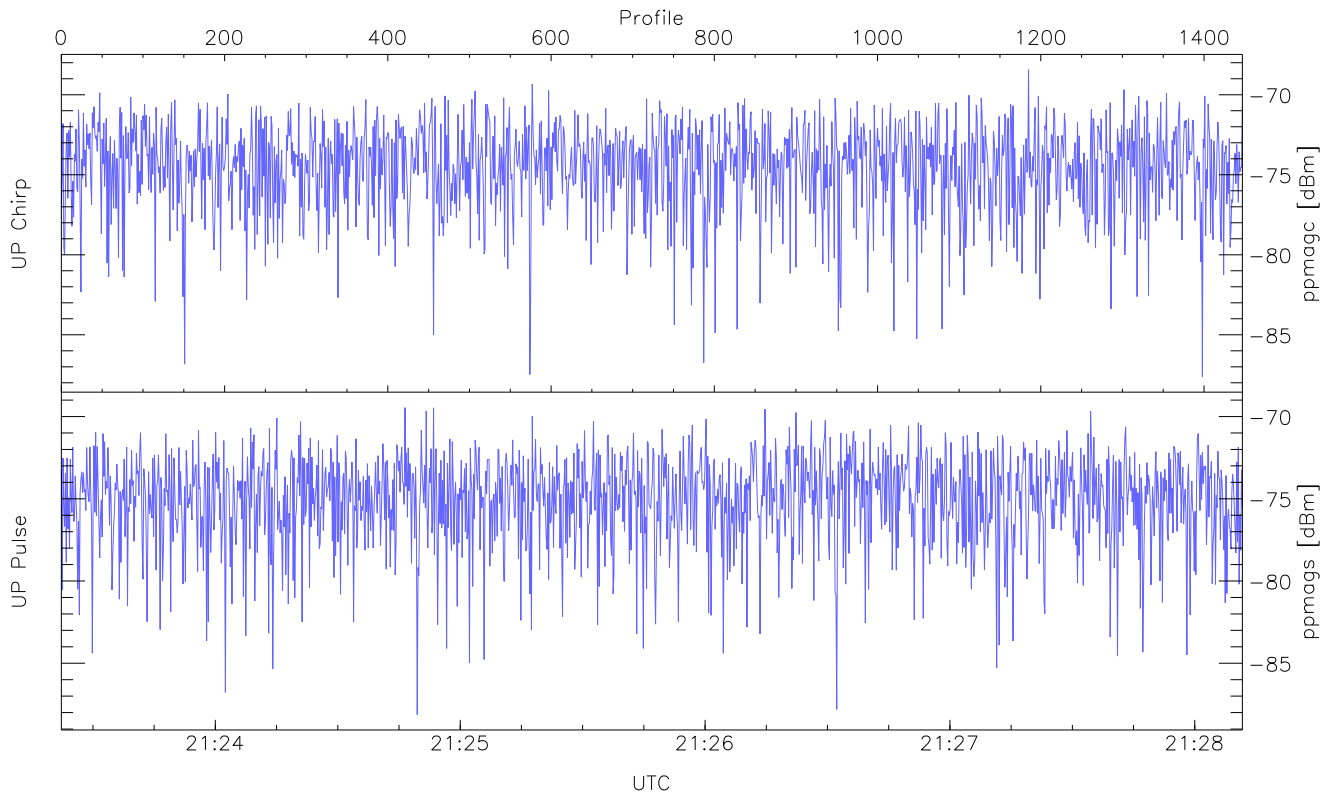
KPR SPP "Best" PPVEL noise (m/s):

	Min	Max	Mean	Median	StDev
UP_C_RG390_0	-42.03	42.01	0.53	0.60	24.38
UP_P_RG203_0	-42.04	42.04	-0.39	-0.18	24.34
DOWN_C_WL_0	-42.04	42.01	0.63	1.65	23.82
DOWN_P_RG261_0	-41.89	41.97	0.17	0.31	23.91



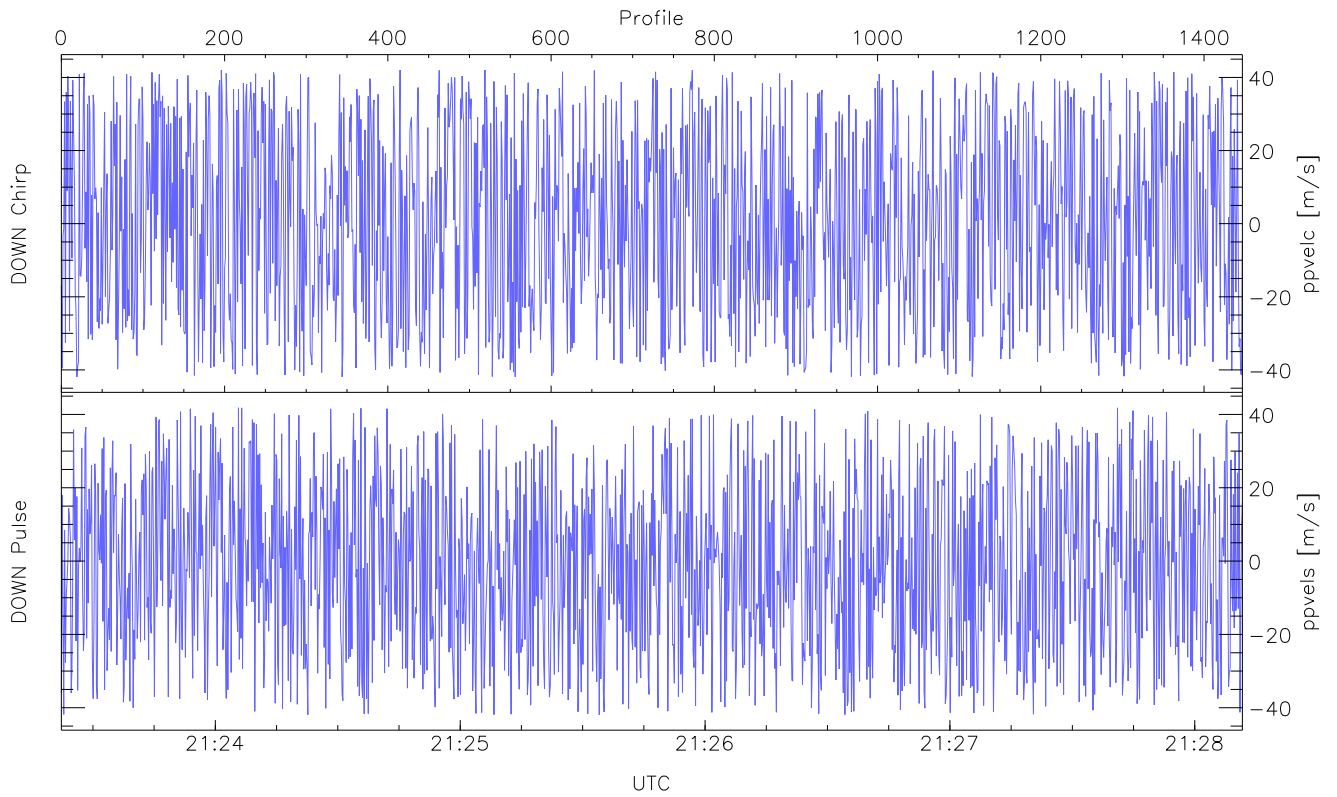
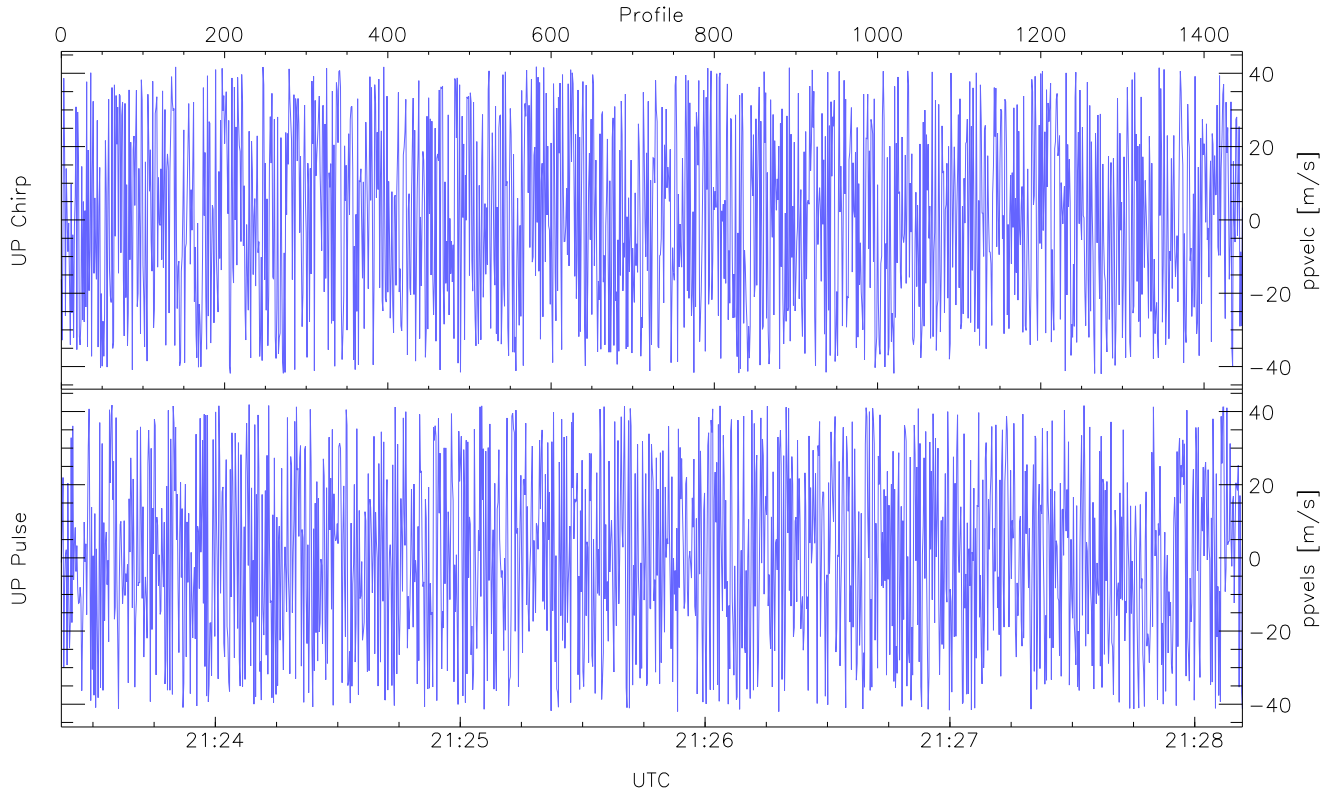
KPR SPP Received Power for Chirp Range gate 10 (686.2 m)  
 KPR SPP Received Power for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-58.76	-58.09	-58.40
UP Pulse(dBm)	-59.09	-58.47	-58.78
DOWN Chirp(dBm)	-58.58	-57.87	-58.23
DOWN Pulse(dBm)	-58.94	-58.28	-58.59



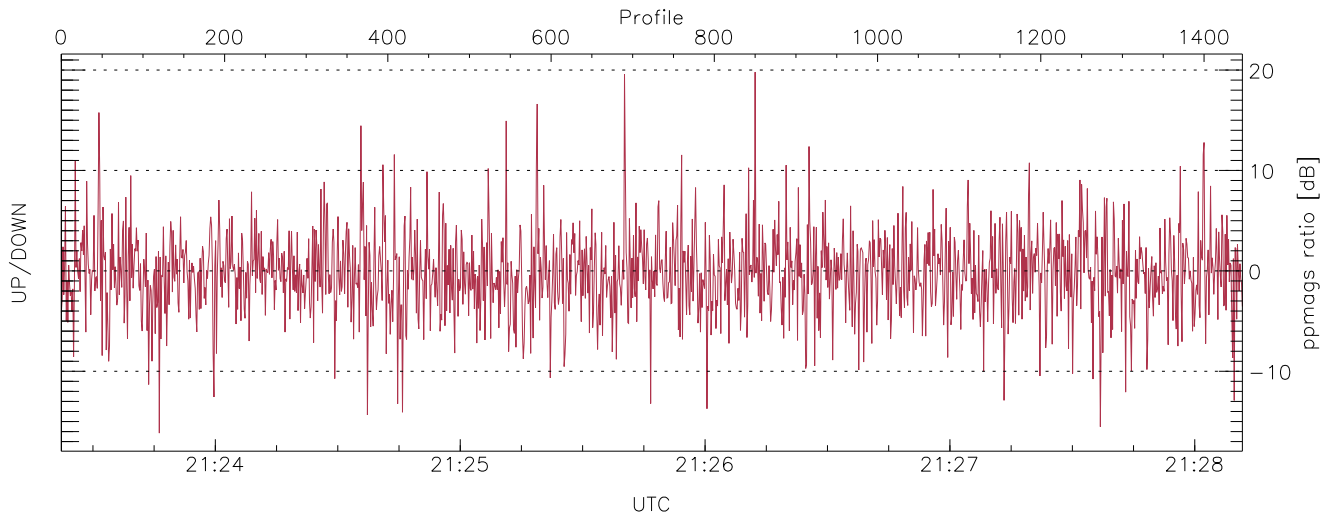
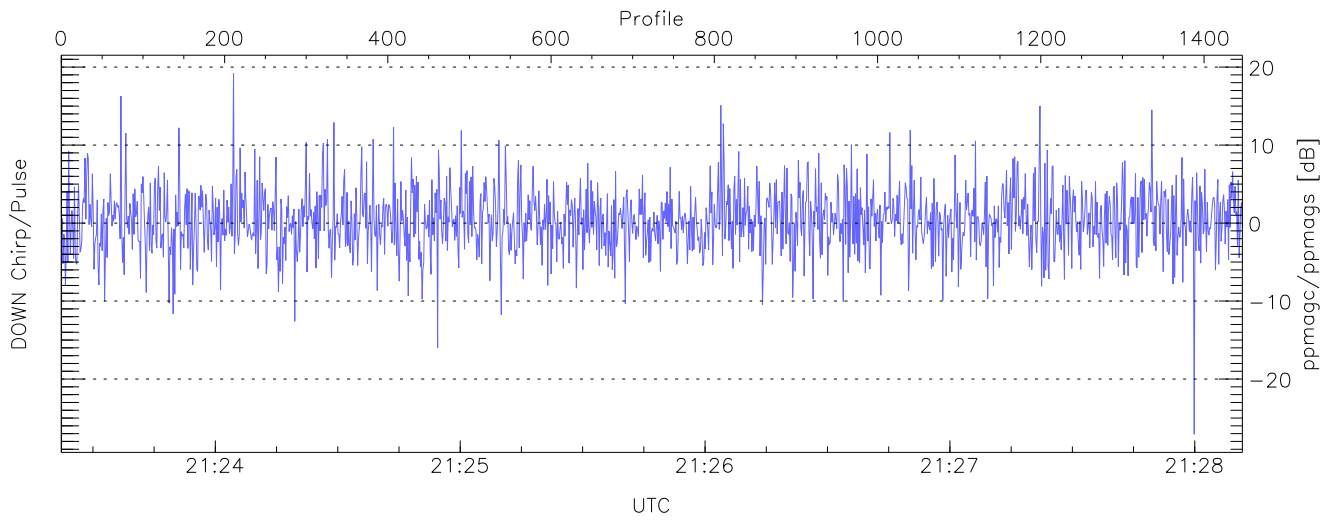
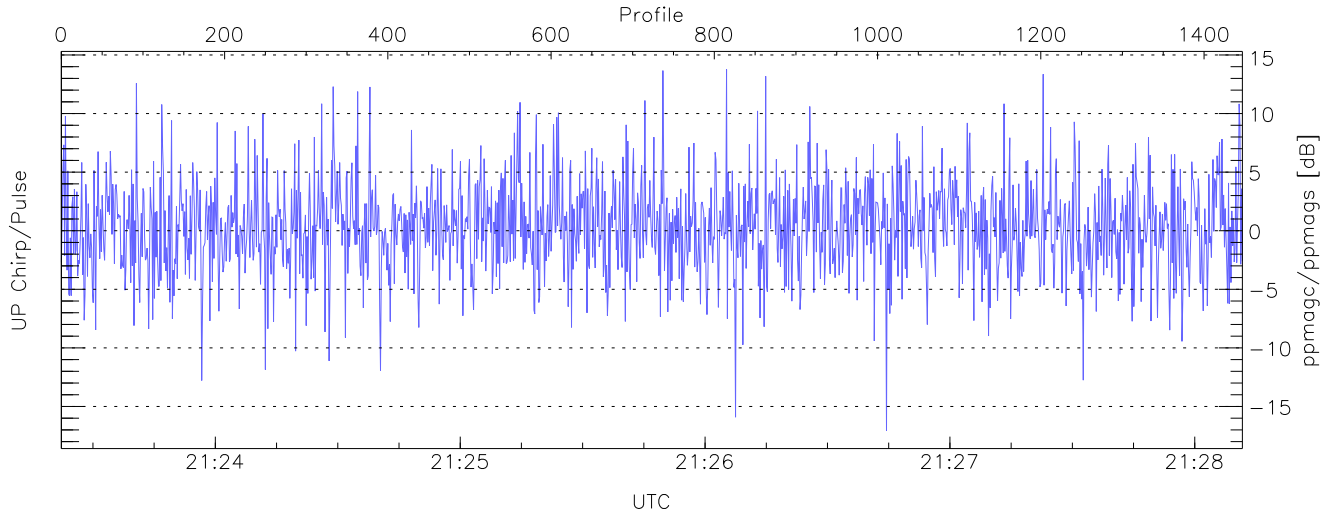
KPR SPP PPMAG for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPMAG for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(dBm)	-87.63	-68.44	-73.86
UP Pulse(dBm)	-88.12	-69.45	-74.38
DOWN Chirp(dBm)	-89.29	-68.71	-73.81
DOWN Pulse(dBm)	-91.04	-68.87	-74.14



KPR SPP PPVEL for Chirp Range gate 10 (686.2 m)  
 KPR SPP PPVEL for Pulse Range gate 10 (270.7 m)

	Min	Max	Mean
UP Chirp(m/s)	-41.98	41.78	0.63
UP Pulse(m/s)	-42.03	41.92	0.04
DOWN Chirp(m/s)	-41.95	42.05	0.70
DOWN Pulse(m/s)	-41.93	41.83	-1.37



KPR SPP PPMAG Chirp/Pulse; Range gate: 551.3m /570.5m

	Min	Max	Mean
UP Chirp/Pulse(dBm)	-17.05	13.77	2.15
DOWN Chirp/Pulse(dBm)	-27.08	19.21	2.46
UP/DOWN Ratio at Range 135.8 m			
	Min	Max	Mean
UP/DOWN(dB)	-16.15	19.80	2.11