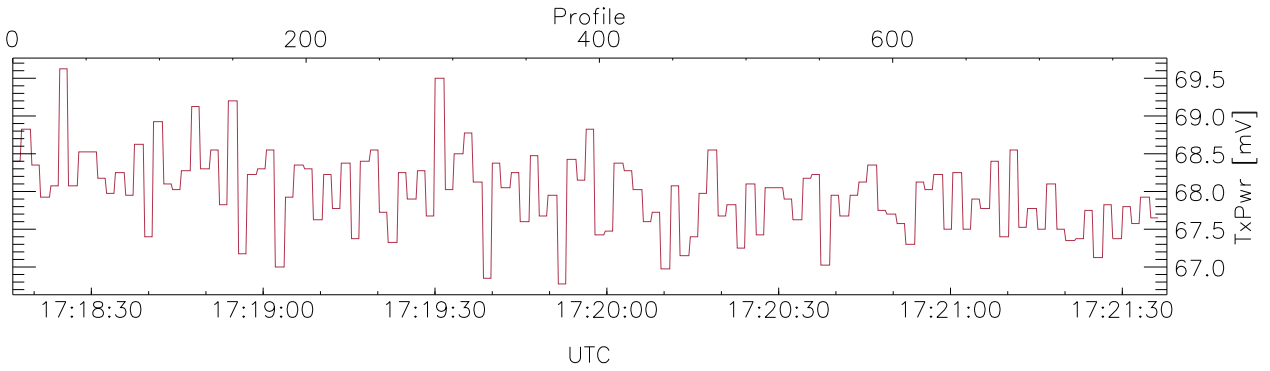
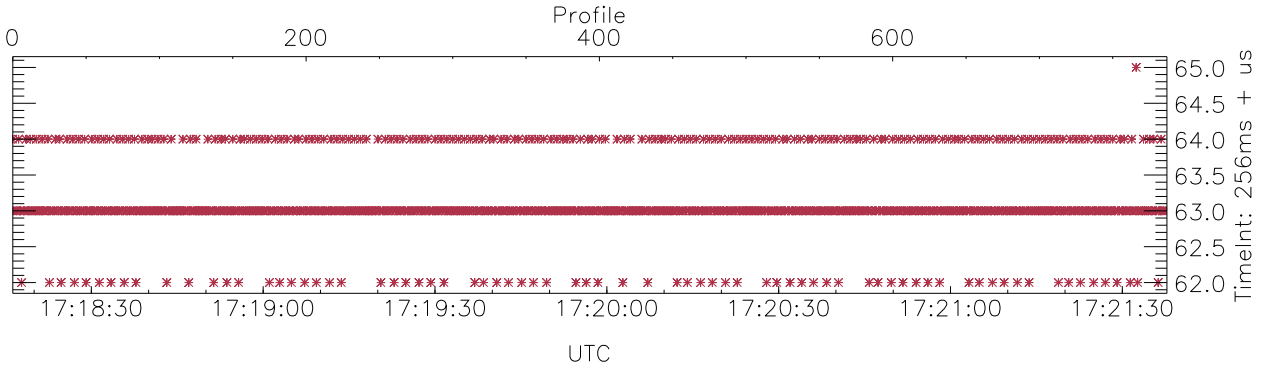
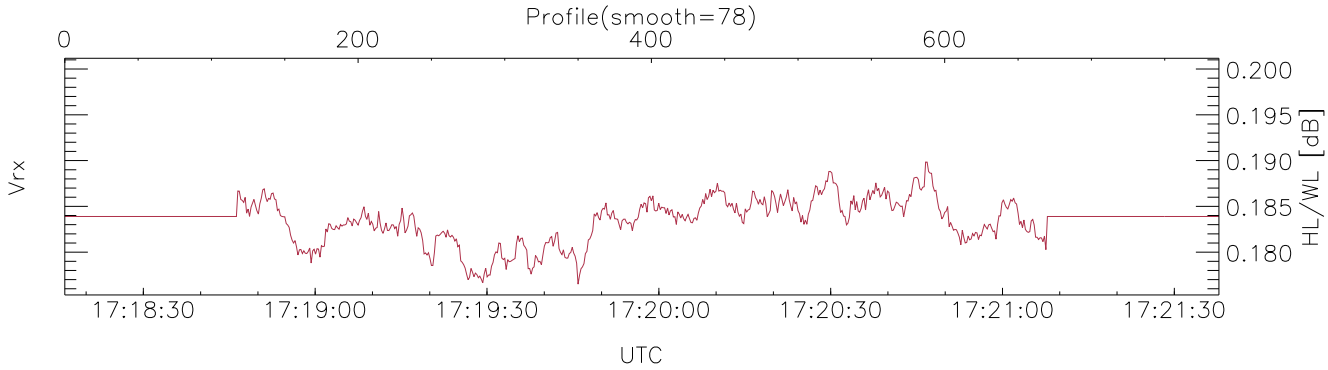
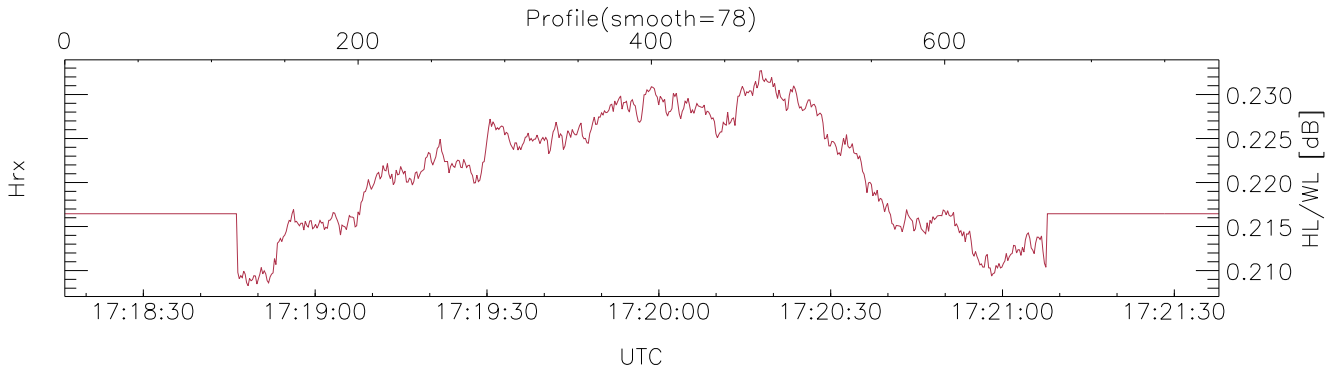




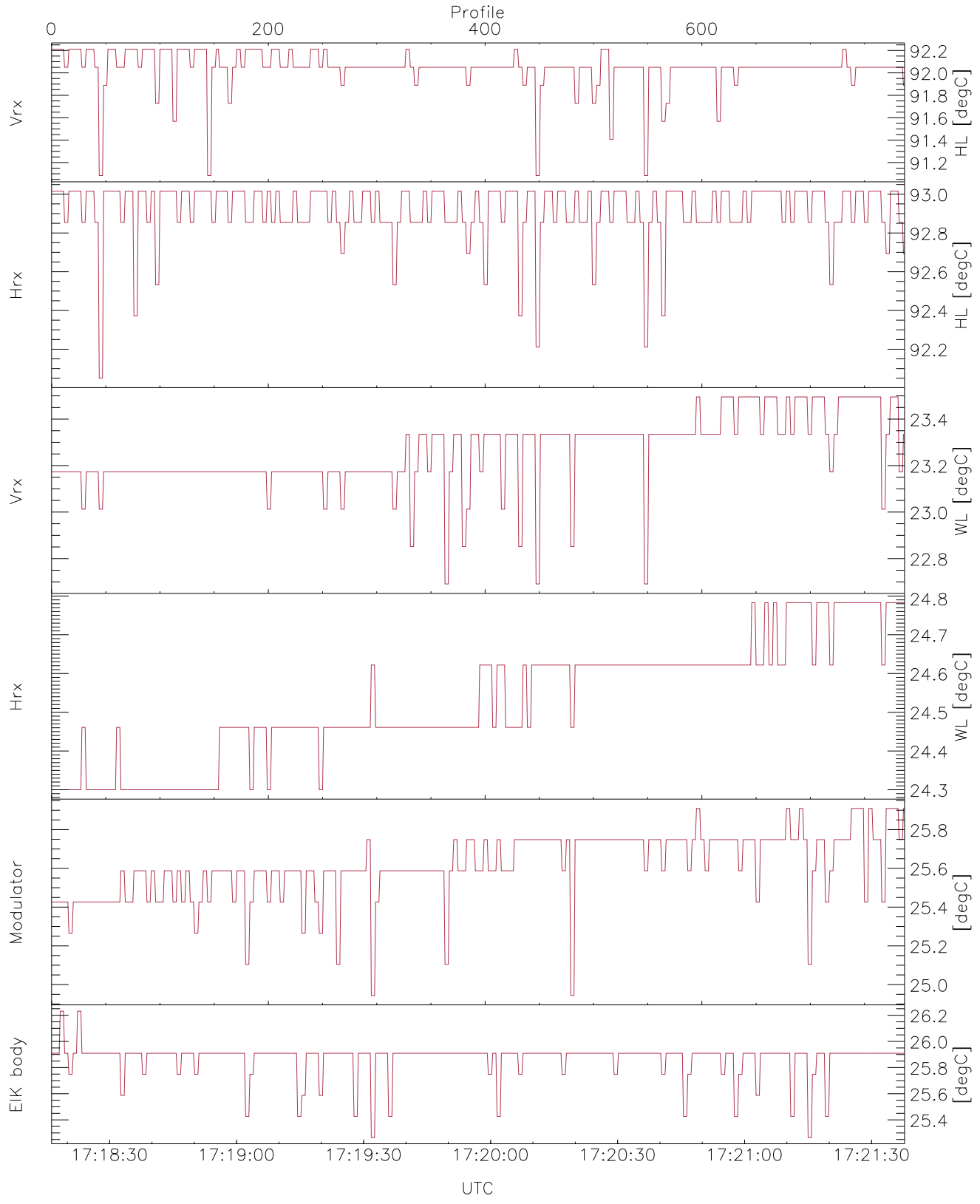




WCR3 FF4 Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

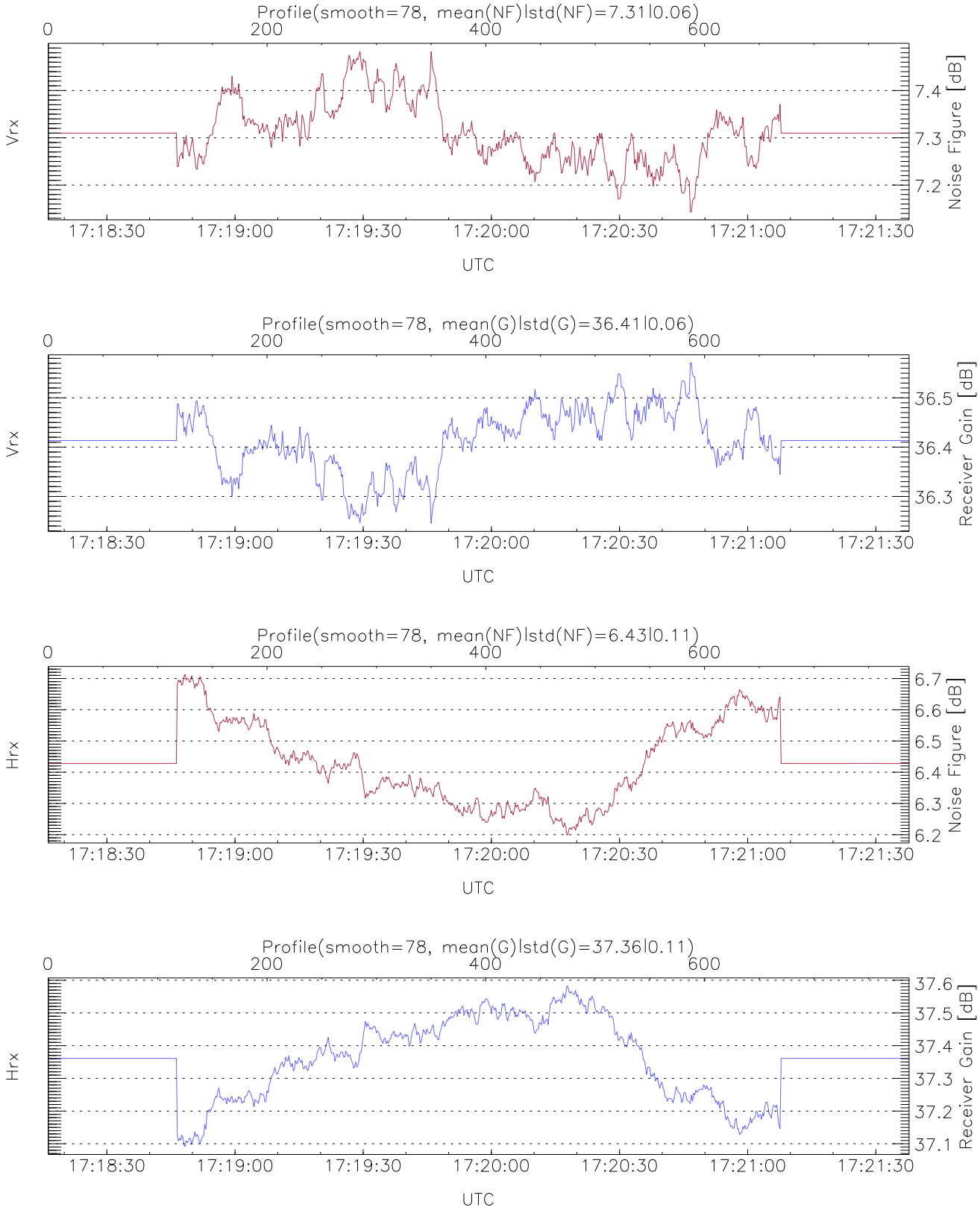
UTC: 17:18:16-17:21:38, TimeCor: 0.00s, Dur: 201.52s
TimeFlg: 1, TFPstatus constant.
TimeInt/PPS(min,max,mn,std): 256.1,256.1,256.1,0.0 ms / 3.9,3.9,3.9
NumRec(r/t): 788/788, 0-787/17:18:16-17:21:38
AcqTime: 256.0ms, Rate: 0.960MB/s, Averages (req.,actual): 20,20
Pulse: 250ns, IFF: 4.0MHz, Tx: H1 V1 H2 V2
PRF: 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 KHz, IGS: 100us
Range(min,max,rgs): 90, 5973, 30.0 m, Gates: 197, Aspect: 1.3
Mirror(-9|0|1|2,3,9x = no mirror|sideluplerror): 1
FFTlen: 32, FFTwin: rectangular, # averagedFFT: 20, cr-polFFT: YES
FFTres: 0.493,0.493,0.493,0.493,0.493,0.493,0.493,0.493 m/s, PulsePairCalc: YES

Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m



WCR3 FF4 Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

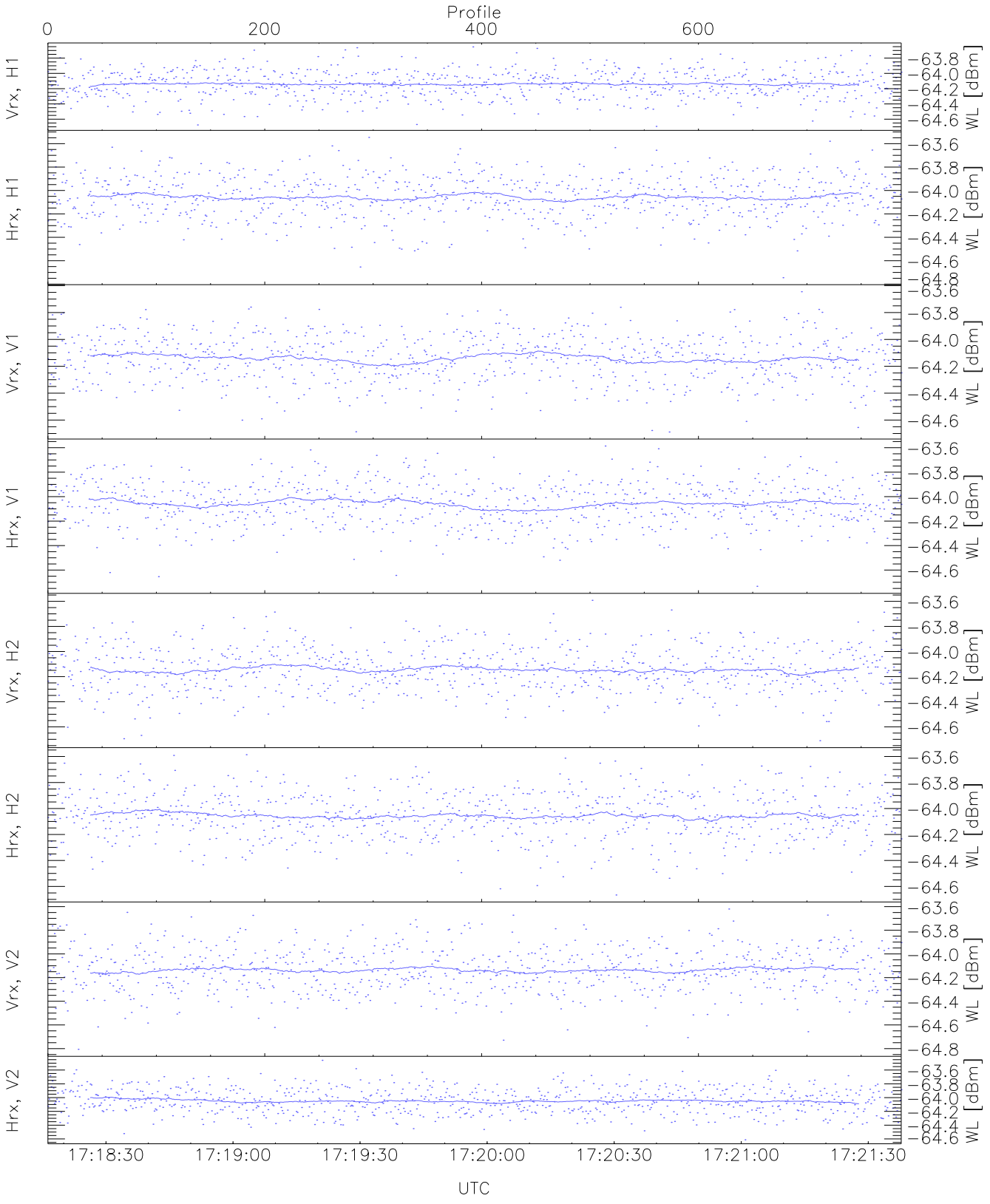
mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,92,22,24,24,25
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,93,23,24,25,26
LOalarm(20,240,2817,14861 MHz): None
EIK/Modulator Faults: None



WCR3 FF4 Receivers Gain and Noise Figure

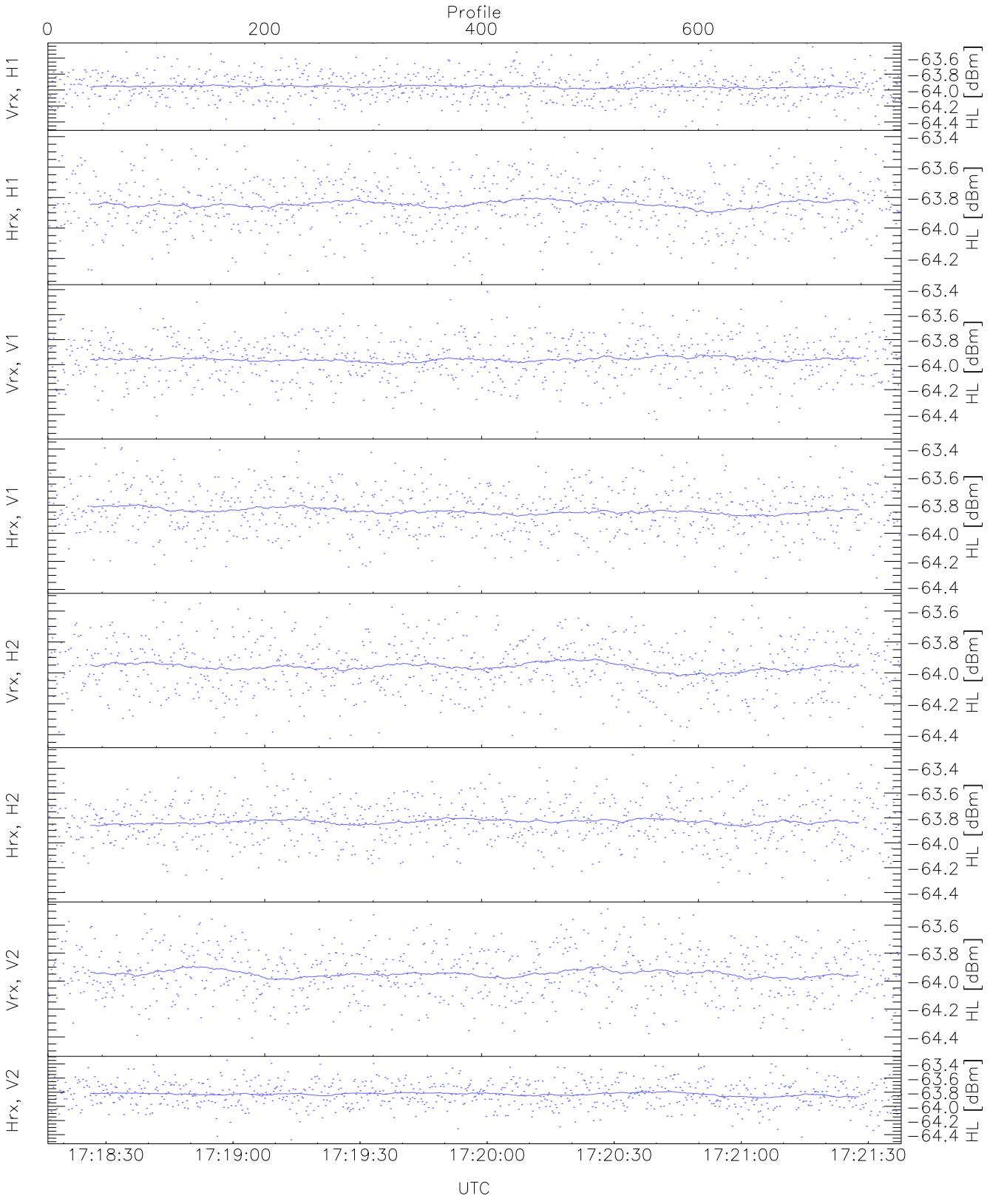
Rx Saturation: 0 pixs, 0 gates, 0 profs, 0 prod(s)

Tue Nov 24 13:01:22 2015 wcr−20151124−171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m



WCR3 FF4 Receivers Noise Power from the Warm Loads Measurements

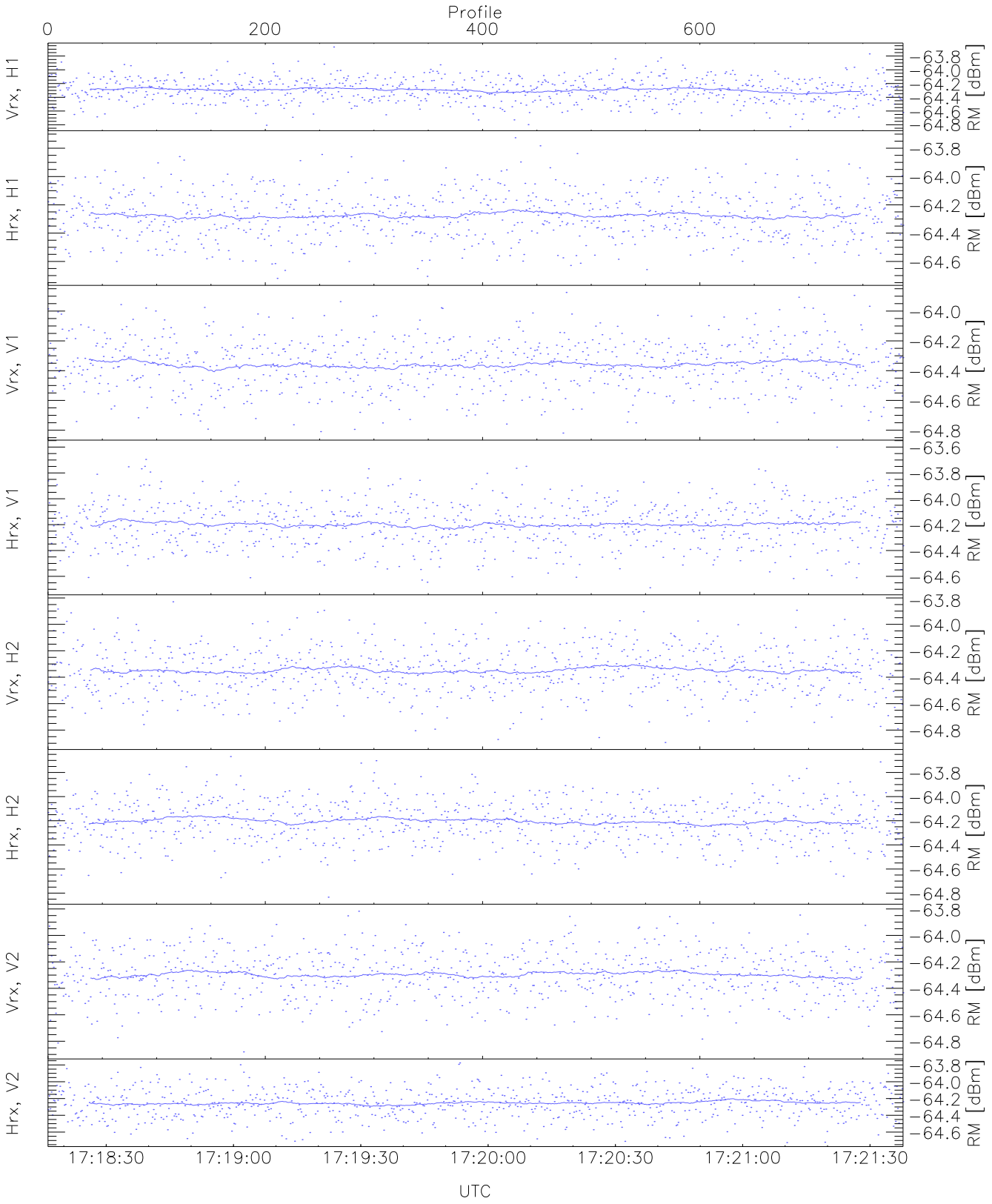
	Min	Max	Mean	Median	StDev
Vrx, H1(WL [dBm])	-64.69	-63.65	-64.14	-64.14	-78.22
Hrx, H1(WL [dBm])	-64.74	-63.55	-64.05	-64.06	-78.03
Vrx, V1(WL [dBm])	-64.69	-63.64	-64.14	-64.13	-78.32
Hrx, V1(WL [dBm])	-64.73	-63.59	-64.05	-64.05	-78.10
Vrx, H2(WL [dBm])	-64.71	-63.59	-64.14	-64.15	-78.22
Hrx, H2(WL [dBm])	-64.67	-63.59	-64.05	-64.06	-78.03
Vrx, V2(WL [dBm])	-64.81	-63.62	-64.13	-64.14	-77.95
Hrx, V2(WL [dBm])	-64.61	-63.46	-64.05	-64.05	-78.01



WCR3 FF4 Receivers Noise Power from the Hot Loads Measurements

	Min	Max	Mean	Median	StDev
Vrx, H1(HL [dBm])	-64.46	-63.46	-63.96	-63.96	-78.12
Hrx, H1(HL [dBm])	-64.33	-63.40	-63.84	-63.84	-78.03
Vrx, V1(HL [dBm])	-64.54	-63.42	-63.96	-63.95	-78.05
Hrx, V1(HL [dBm])	-64.38	-63.38	-63.84	-63.84	-78.04
Vrx, H2(HL [dBm])	-64.44	-63.53	-63.96	-63.96	-78.05
Hrx, H2(HL [dBm])	-64.42	-63.29	-63.83	-63.83	-77.77
Vrx, V2(HL [dBm])	-64.49	-63.48	-63.94	-63.95	-77.85
Hrx, V2(HL [dBm])	-64.47	-63.35	-63.83	-63.83	-77.77

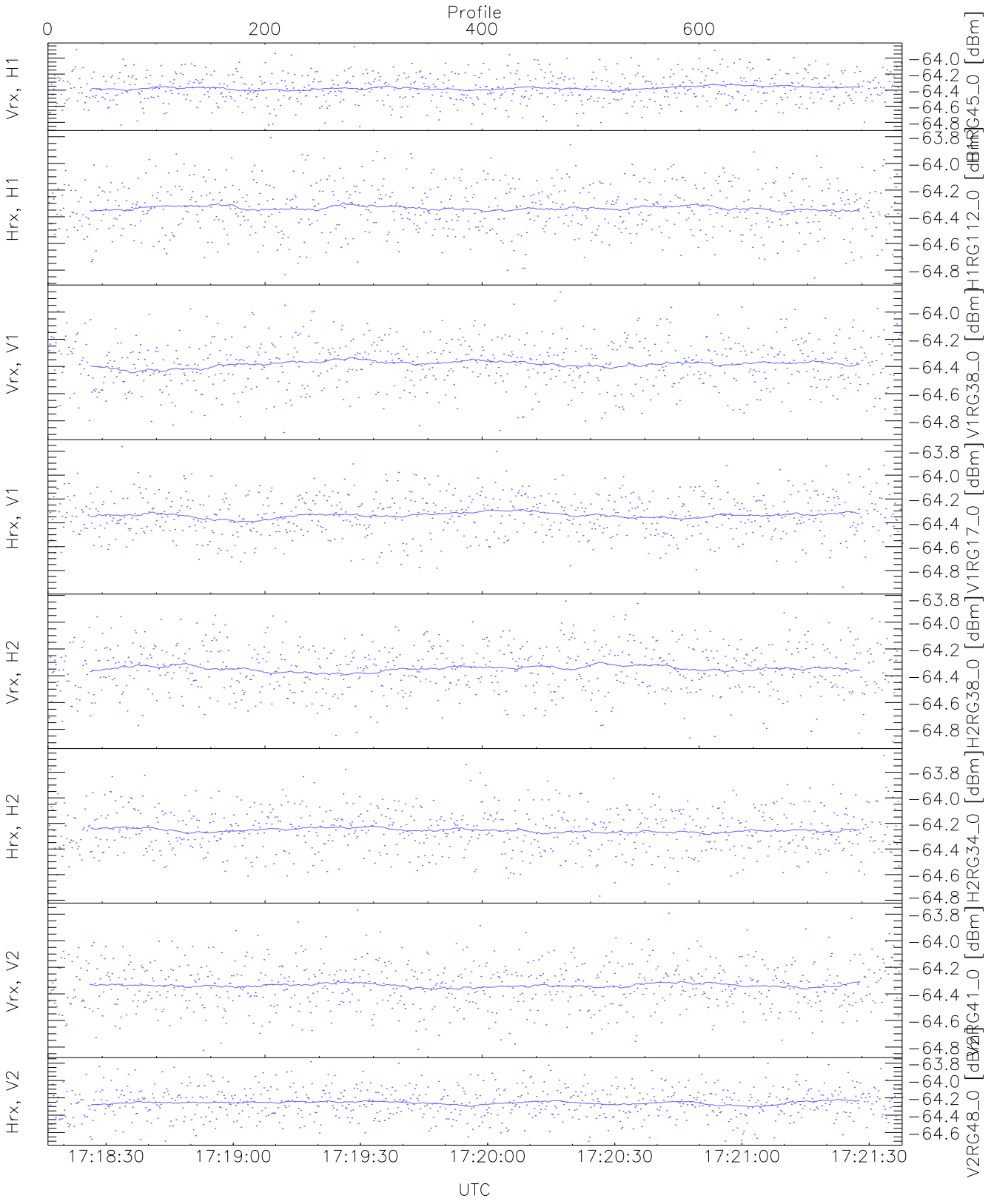
Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m



WCR3 FF4 Receivers Noise Power from the Sky/RM Measurements

	Min	Max	Mean	Median	StDev
Vrx, H1(RM [dBm])	-64.83	-63.67	-64.29	-64.29	-78.36
Hrx, H1(RM [dBm])	-64.72	-63.73	-64.27	-64.28	-78.51
Vrx, V1(RM [dBm])	-64.82	-63.87	-64.36	-64.35	-78.49
Hrx, V1(RM [dBm])	-64.69	-63.60	-64.19	-64.19	-78.24
Vrx, H2(RM [dBm])	-64.89	-63.83	-64.35	-64.35	-78.28
Hrx, H2(RM [dBm])	-64.83	-63.67	-64.20	-64.21	-78.22
Vrx, V2(RM [dBm])	-64.88	-63.82	-64.30	-64.30	-78.31
Hrx, V2(RM [dBm])	-64.73	-63.78	-64.25	-64.25	-78.30

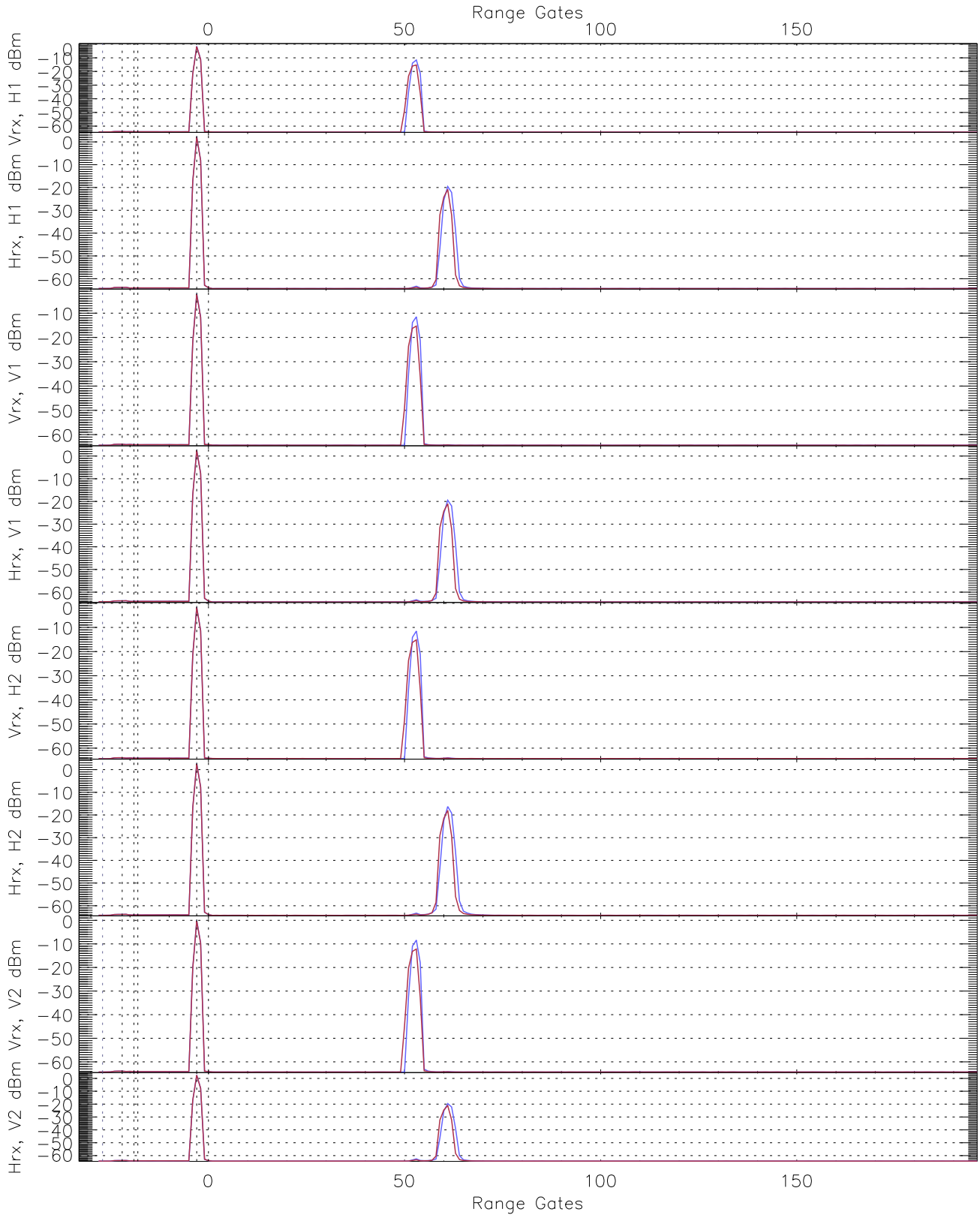
Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m



WCR3 FF4 "Best" estimate Receivers Noise Power

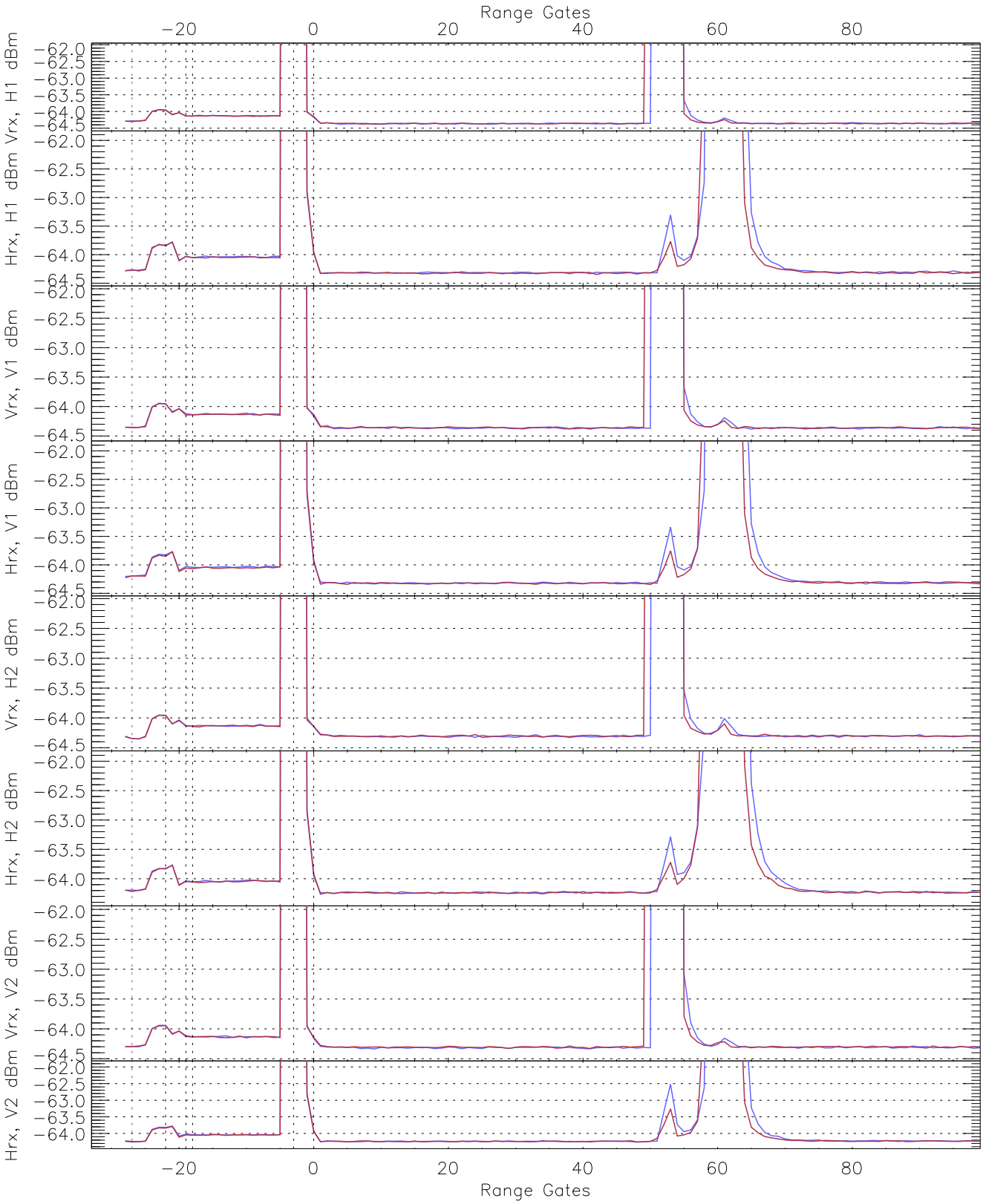
	Min	Max	Mean	Median	StDev
H1RG45_0 [dBm]	-64.85	-63.86	-64.37	-64.38	-78.43
H1RG112_0 [dBm]	-64.86	-63.81	-64.34	-64.34	-78.21
V1RG38_0 [dBm]	-64.89	-63.85	-64.38	-64.37	-78.38
V1RG17_0 [dBm]	-64.94	-63.76	-64.33	-64.34	-78.43
H2RG38_0 [dBm]	-64.89	-63.84	-64.35	-64.34	-78.32
H2RG34_0 [dBm]	-64.77	-63.67	-64.25	-64.26	-78.41
V2RG41_0 [dBm]	-64.83	-63.77	-64.33	-64.33	-78.48
V2RG48_0 [dBm]	-64.70	-63.78	-64.26	-64.26	-78.35

Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m

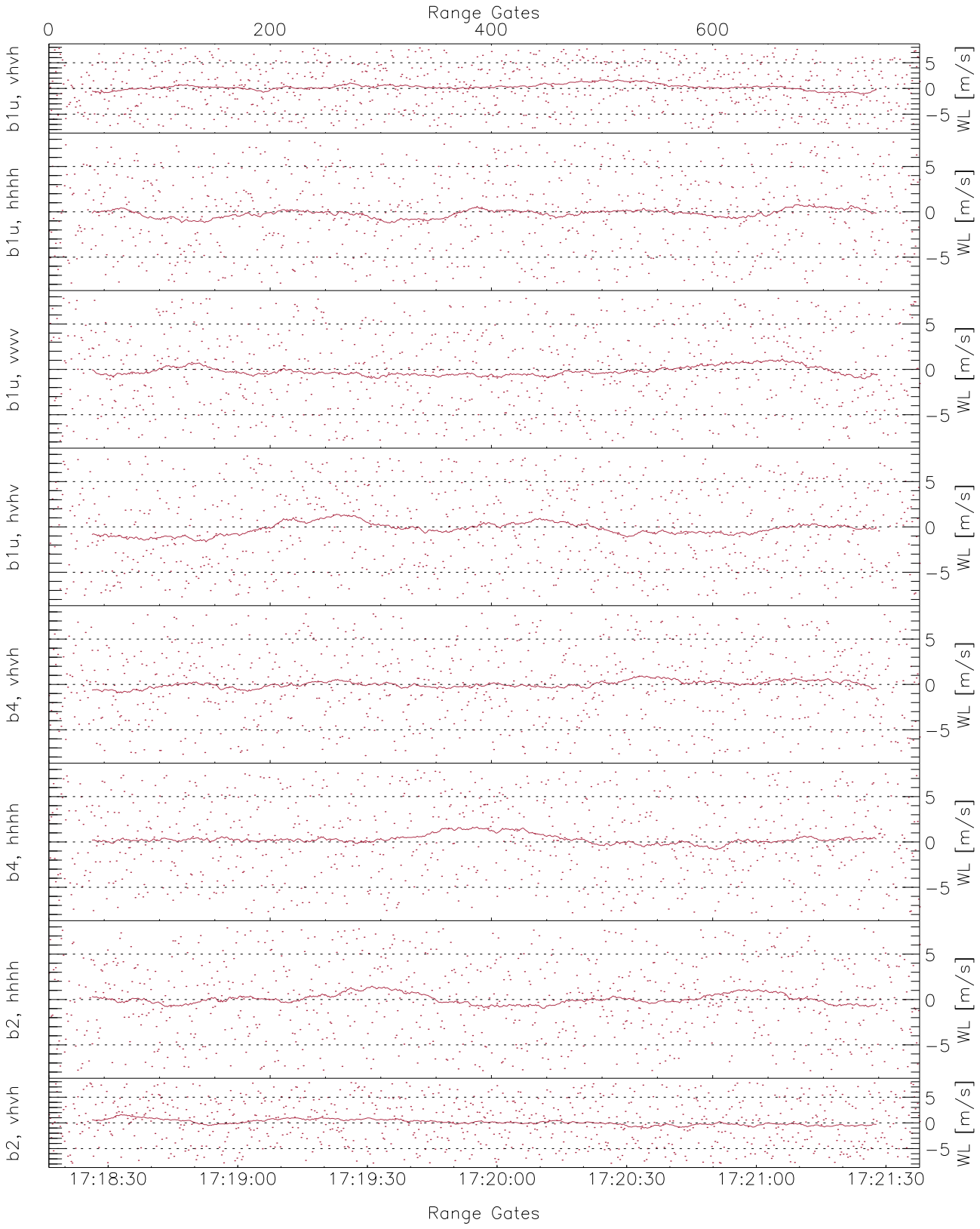


WCR3 FF4 Averaged Received power for all recorded gates
blue: 171816-171957, 395 profiles averaged
red: 171957-172138, 394 profiles averaged

Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m

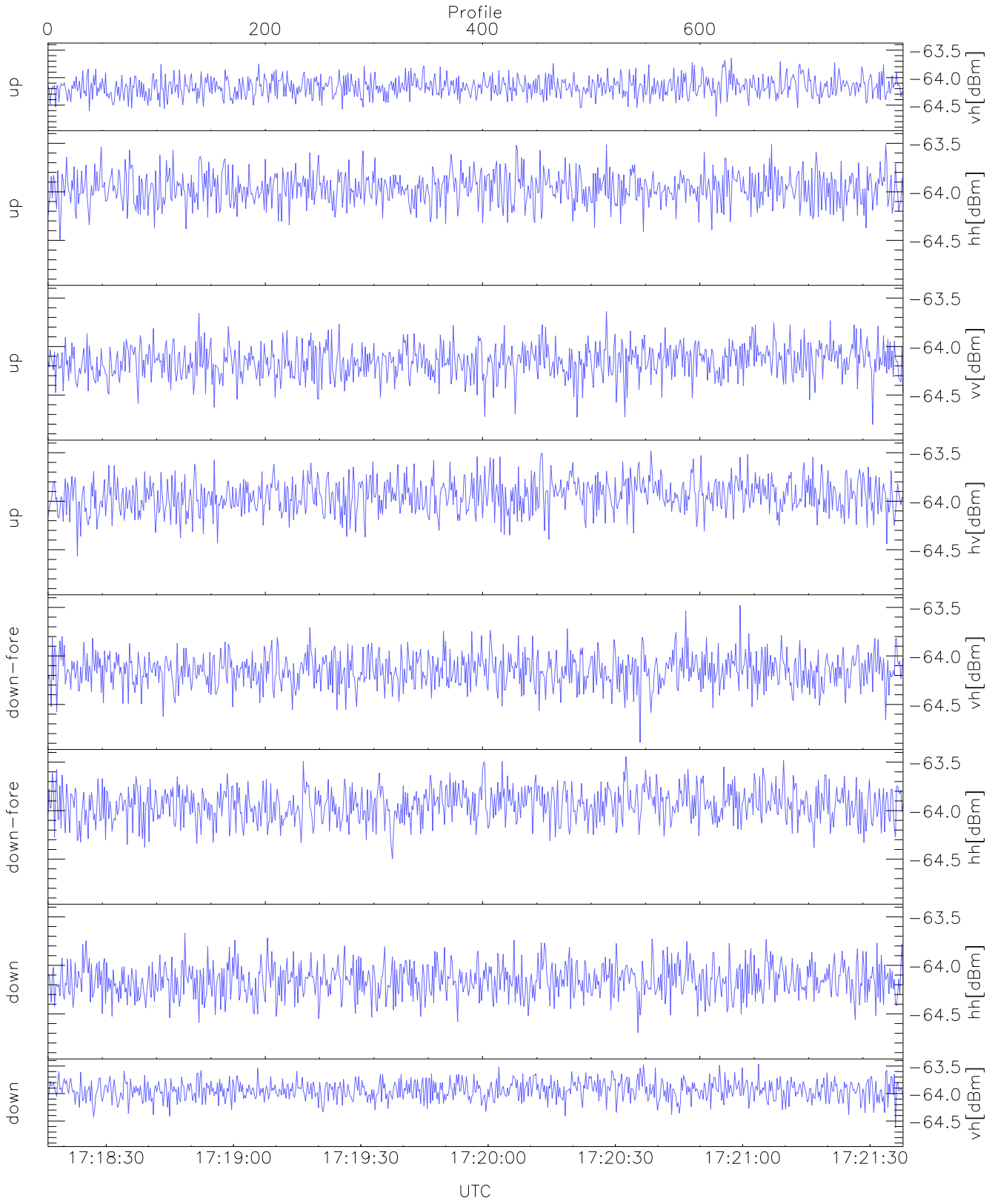


WCR3 FF4 Averaged Received power for the negative gates and up to 100 gate
blue: 171816-171957, 395 profiles averaged
red: 171957-172138, 394 profiles averaged



WCR3 FF4 Receivers Phase Noise (in m/s) from the Warm Loads Measurements

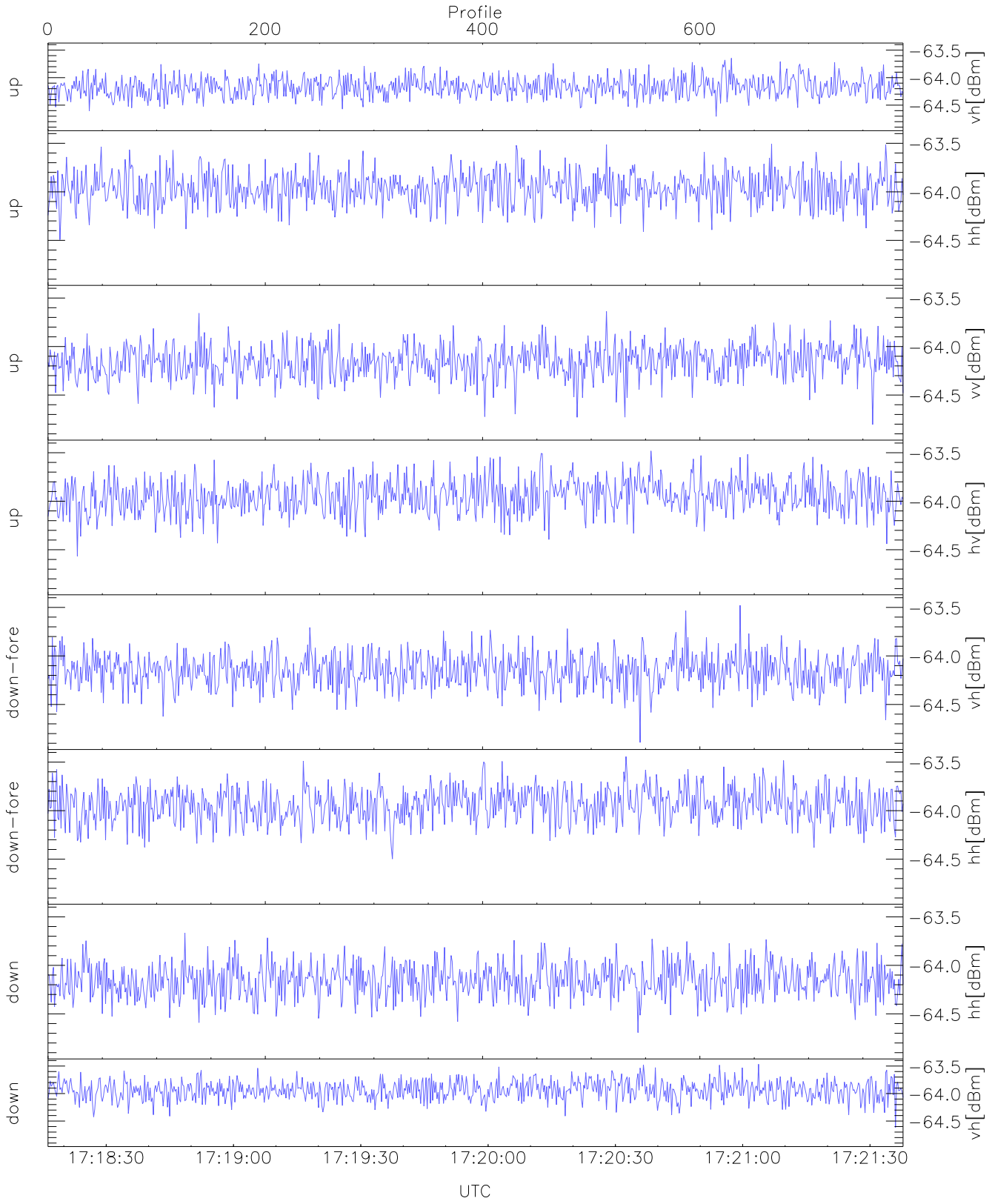
Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m



WCR3 FF4 Received Power Products for Range gate 0 (90.4 m)

	Min	Max	Mean
up(vh[dBm])	-64.71	-63.65	-64.17
up(hh[dBm])	-64.49	-63.51	-63.96
up(vv[dBm])	-64.80	-63.64	-64.15
up(hv[dBm])	-64.57	-63.48	-63.94
down-fore(vh[dBm])	-64.89	-63.48	-64.15
down-fore(hh[dBm])	-64.50	-63.44	-63.94
down(hh[dBm])	-64.69	-63.67	-64.15
down(vh[dBm])	-64.62	-63.47	-63.94

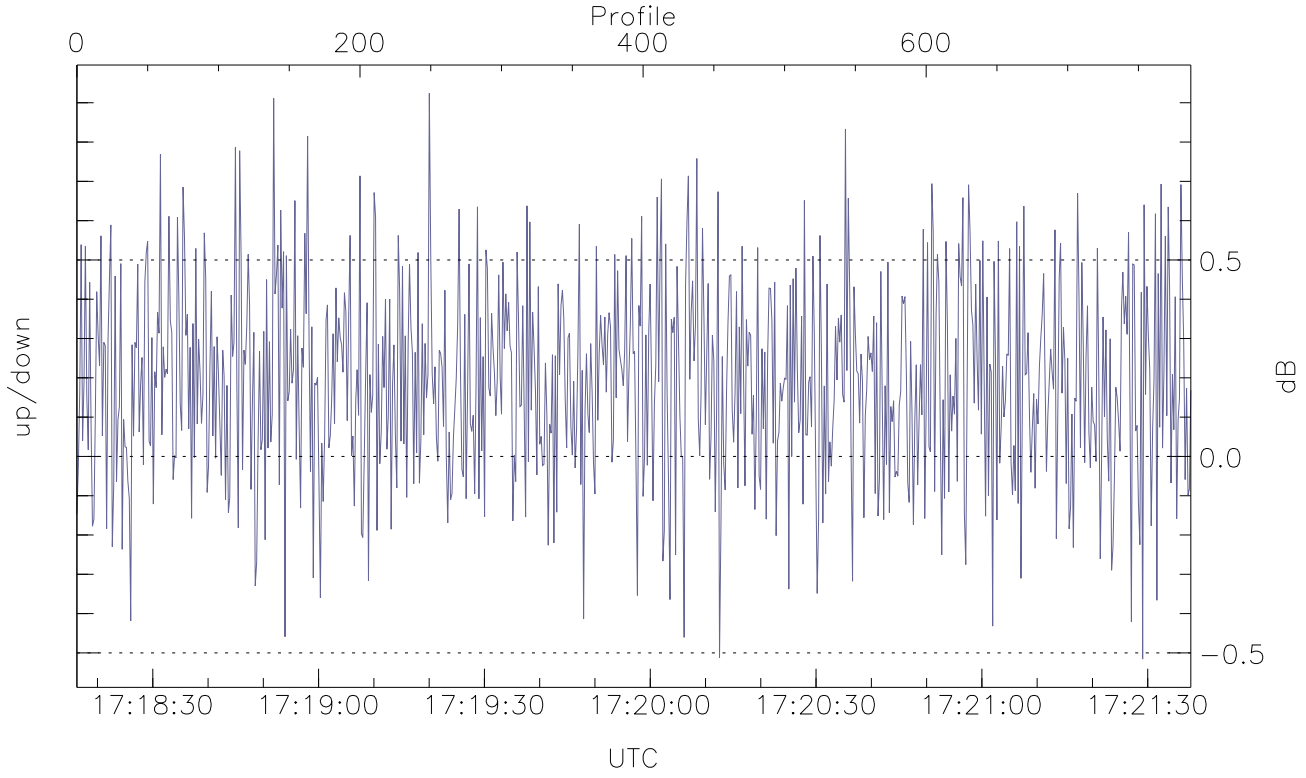
Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m

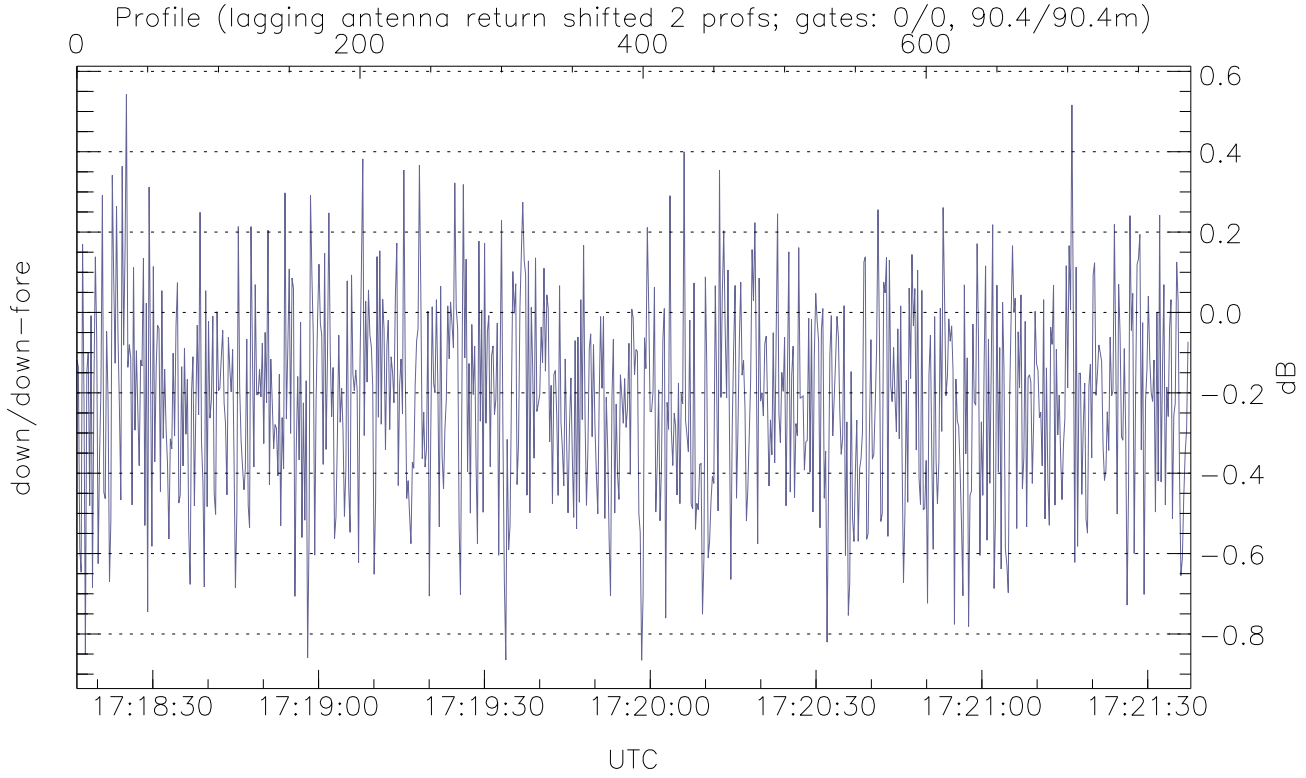


WCR3 FF4 Power Products(psdmom0) for Range gate 0 (90.4 m)

	Min	Max	Mean
up(vh[dBm])	-64.71	-63.65	-64.17
up(hh[dBm])	-64.49	-63.51	-63.96
up(vv[dBm])	-64.80	-63.64	-64.15
up(hv[dBm])	-64.57	-63.48	-63.94
down-fore(vh[dBm])	-64.89	-63.48	-64.15
down-fore(hh[dBm])	-64.50	-63.44	-63.94
down(hh[dBm])	-64.69	-63.67	-64.15
down(vh[dBm])	-64.62	-63.47	-63.94

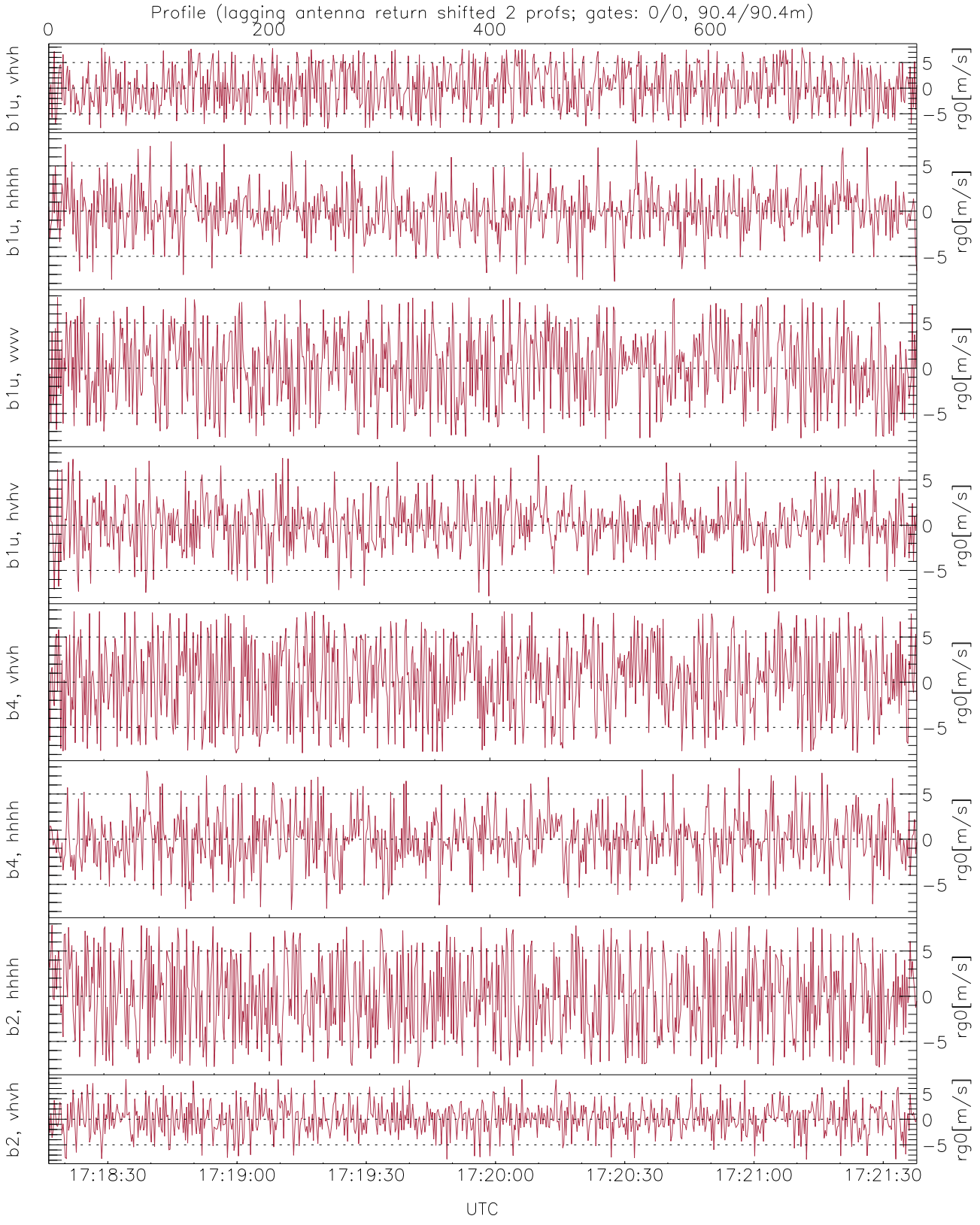
Tue Nov 24 13:01:22 2015 wcr-20151124-171816.fft4 data seg 1 of 1; WCR3TEST15 TF02 FFT irregular m





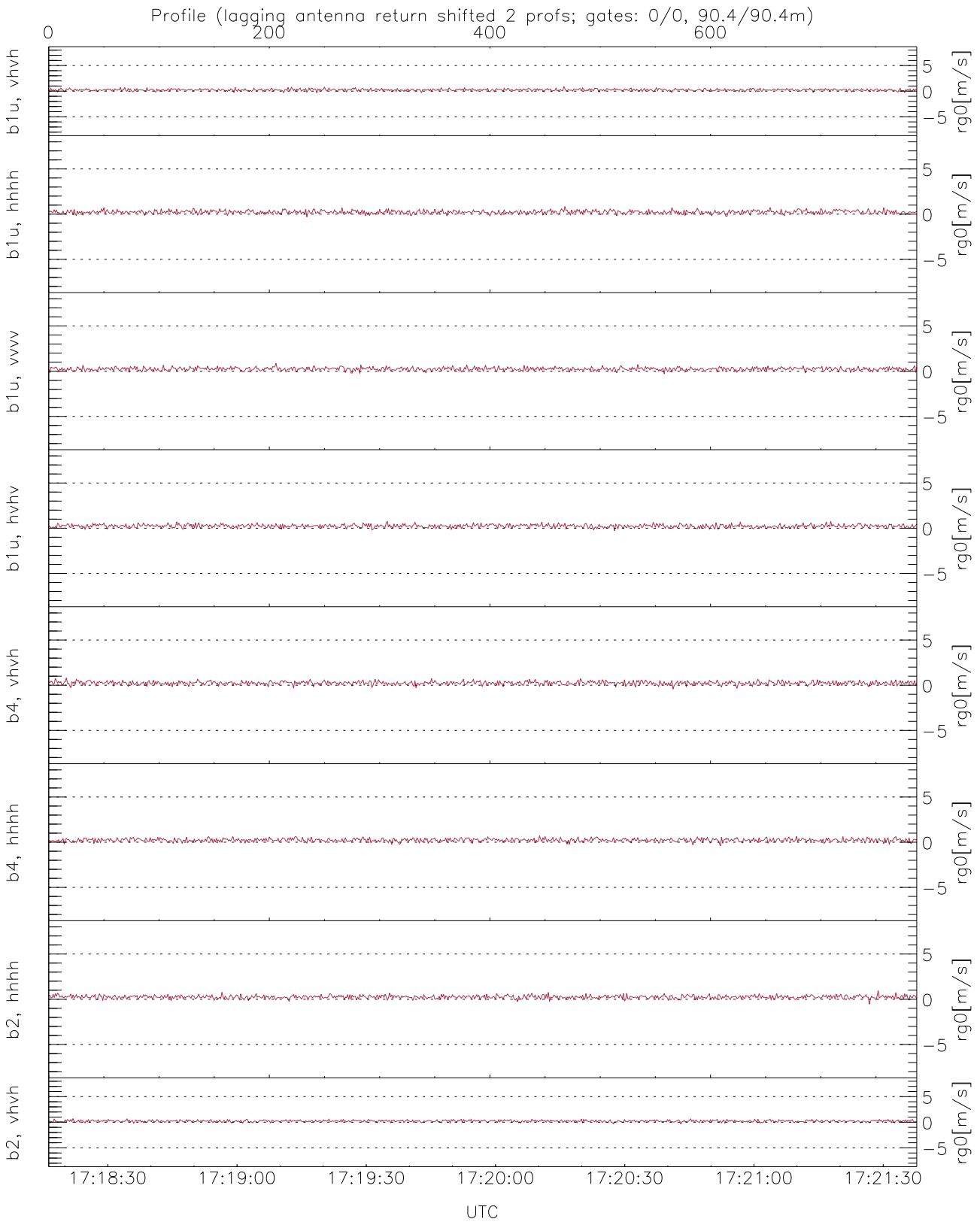
WCR3 Beam pairs Received Power Ratio(s); RangeGate: 0 (90 m)

	Min	Max	Mean
up/down(dB)	-0.52	0.92	0.19
down/down-fore(dB)	-0.87	0.54	-0.22



WCR3 FF4 Doppler Velocity Products at 90.4 m range

	Min	Max	Mean	StDev
b1u, vhvh(rg0[m/s])	-7.87	7.89	0.14	4.01
b1u, hhhh(rg0[m/s])	-7.78	7.83	-0.07	2.55
b1u, vvvv(rg0[m/s])	-7.85	7.87	0.13	3.97
b1u, hvhv(rg0[m/s])	-7.85	7.74	0.05	2.61
b4, vhvh(rg0[m/s])	-7.84	7.84	0.23	4.23
b4, hhhh(rg0[m/s])	-7.80	7.86	-0.02	2.86
b2, hhhh(rg0[m/s])	-7.85	7.88	-0.07	4.31
b2, vhvh(rg0[m/s])	-7.84	7.88	0.05	2.96



WCR3 FF4 Doppler Velocity Products (psdmom1) at 90.4 m range

	Min	Max	Mean	StDev
b1u, vhvh(rg0[m/s])	-0.34	0.93	0.25	0.18
b1u, hhhh(rg0[m/s])	-0.31	0.85	0.24	0.18
b1u, vvvv(rg0[m/s])	-0.30	0.90	0.24	0.17
b1u, hvhv(rg0[m/s])	-0.29	0.75	0.24	0.17
b4, vhvh(rg0[m/s])	-0.43	0.81	0.25	0.19
b4, hhhh(rg0[m/s])	-0.40	0.70	0.24	0.17
b2, hhhh(rg0[m/s])	-0.55	0.96	0.25	0.17
b2, vhvh(rg0[m/s])	-0.38	0.71	0.23	0.17