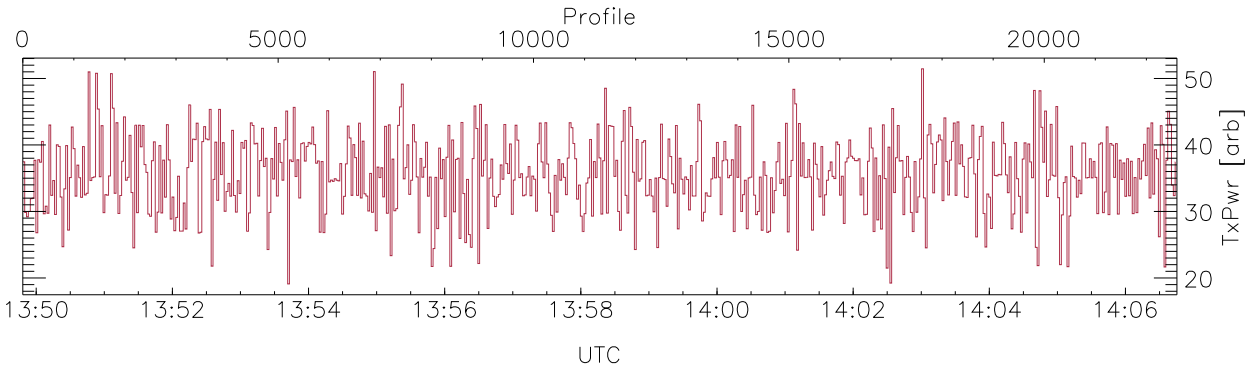
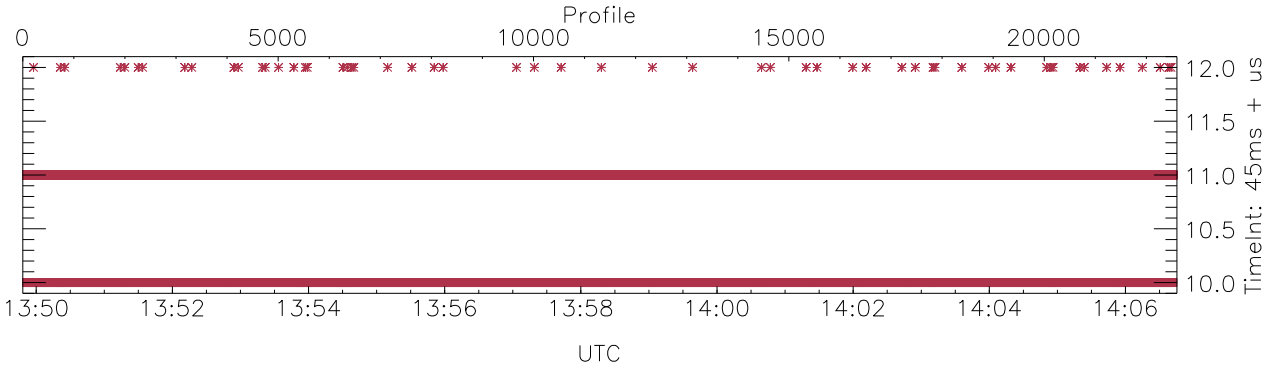
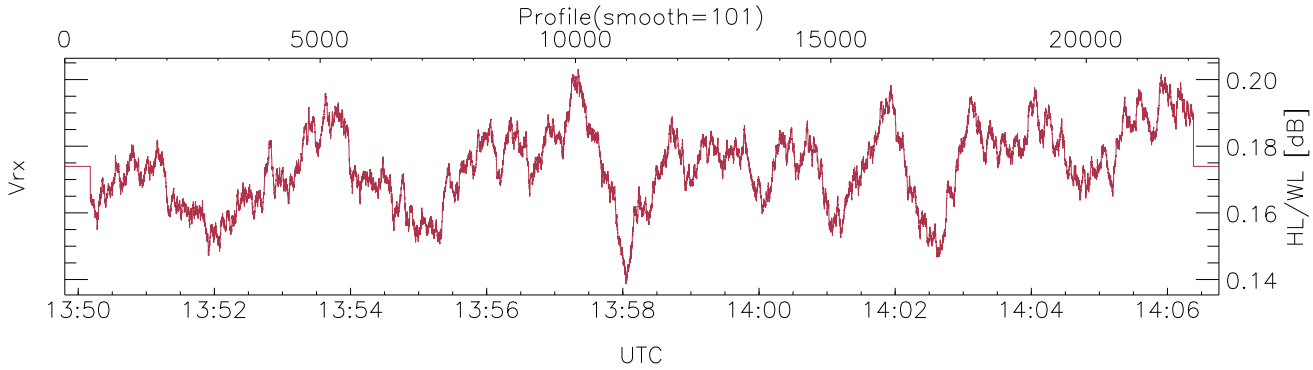
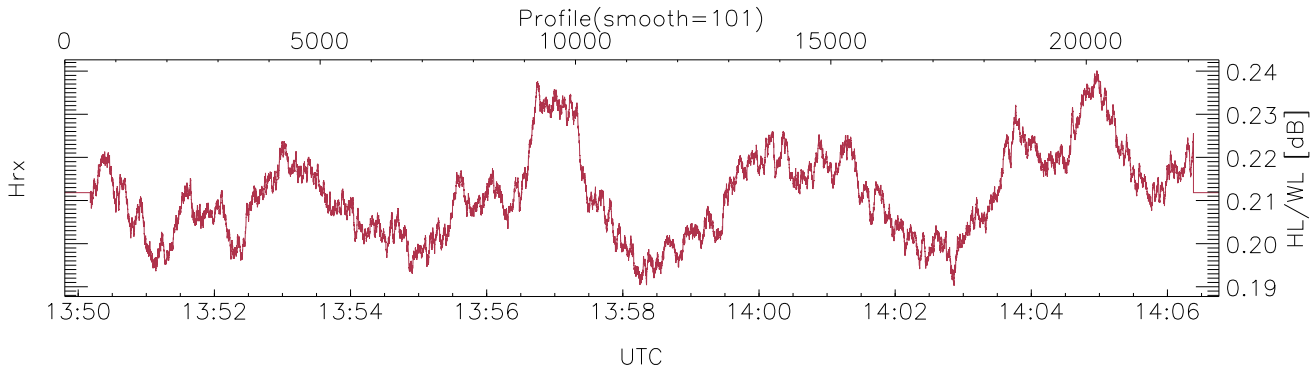


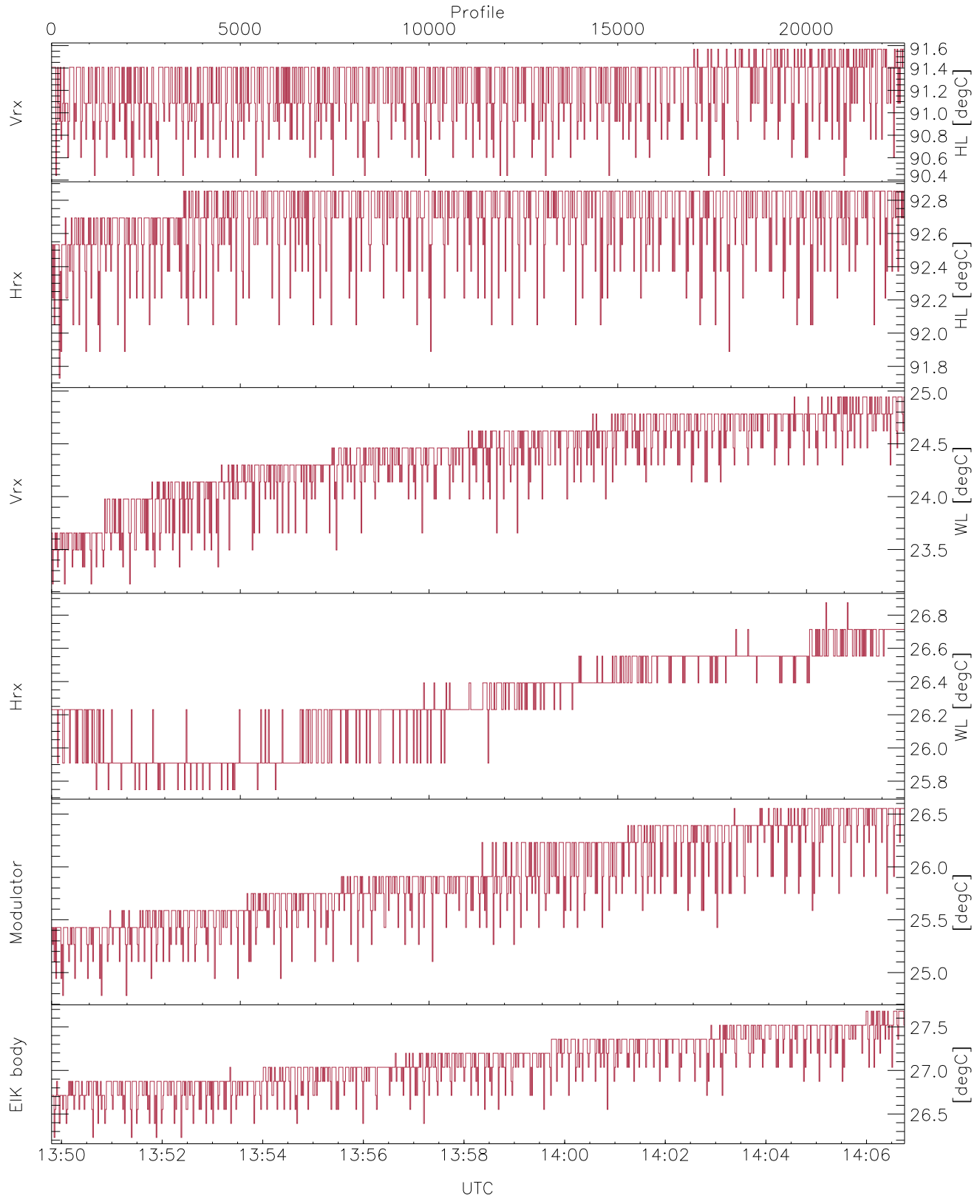



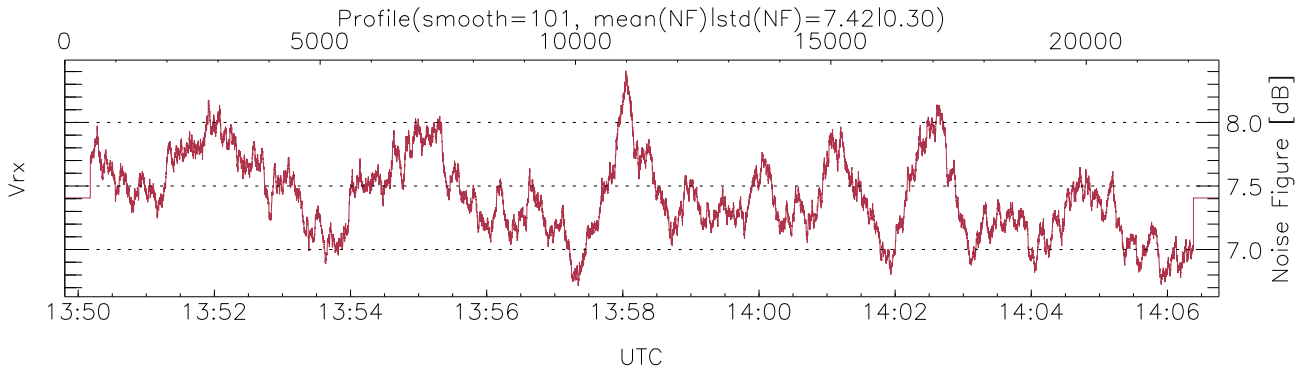

WCR3 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

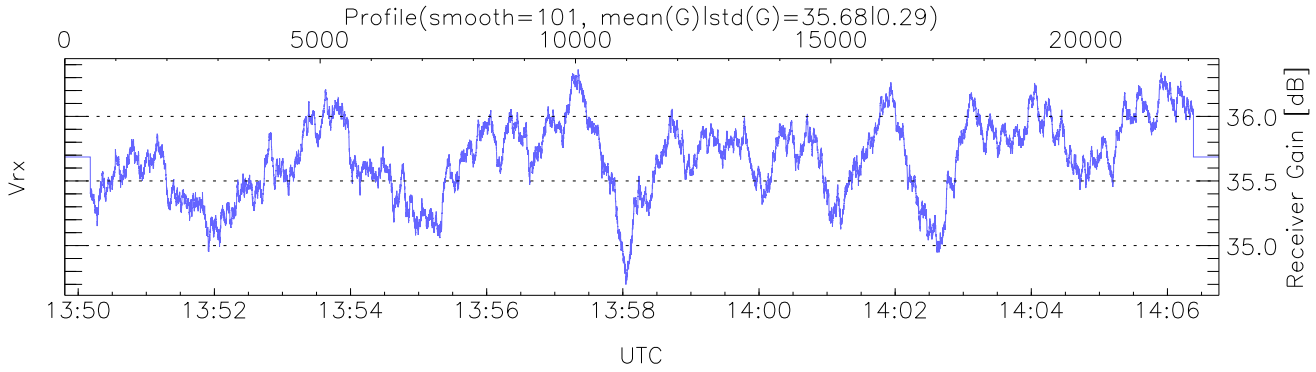
UTC: 13:49:48-14:06:45, TimeCor: 0.00s, Dur: 1017.21s
TimeFlg: 1, TFPstatus constant.
TimeInt/PPS(min,max,mn,std): 45.0,45.0,45.0,0.0 ms / 22.2,22.2,22.2
NumRec(r/t): 22600/22600, 0-22599/13:49:48-14:06:45
AcqTime: 45.0ms, Rate: 0.490MB/s, Averages (req.,actual): 100,100
Pulse: 250ns, IFF: 4.0MHz, Tx: H1 H1 H1 V2 V2 V2 H2 H2 H2
PRF: 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 KHz, IGS: 50us
Range(min,max,rgs): 105, 6288, 15.0 m, Gates: 413, Aspect: 3.7
Mirror(-9|0|1|2,3,9x = no mirror|sideluplerror): 1

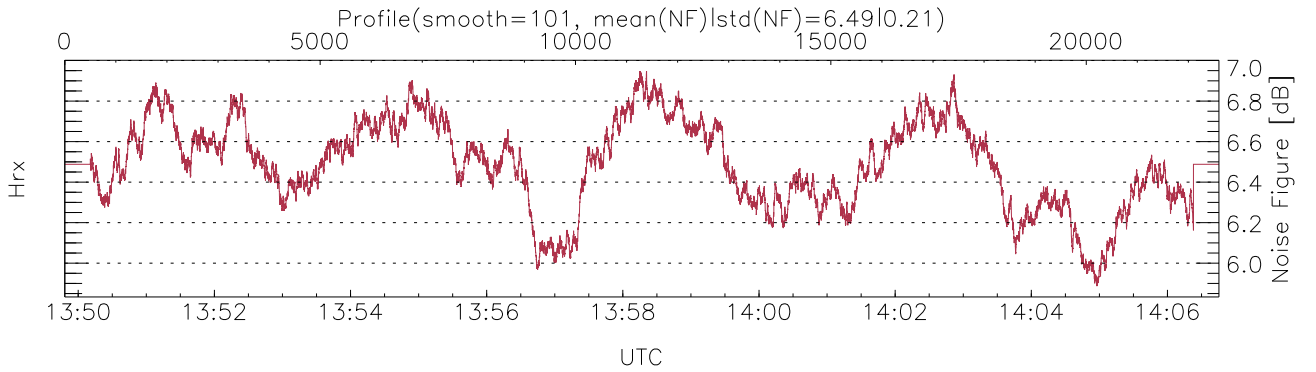


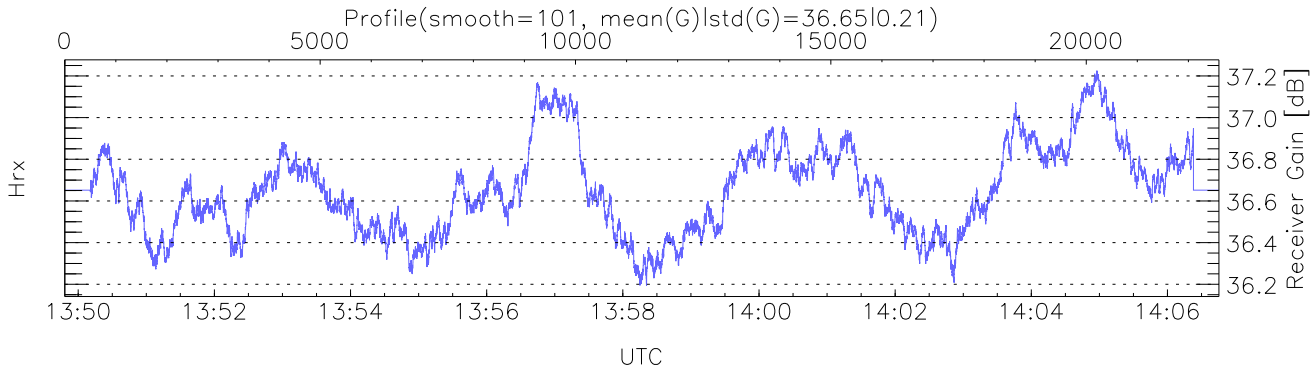

WCR3 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 90,91,23,25,24,26
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,92,24,26,26,27
LOalarm(20,240,2817,14861 MHz): 0,0,22,0
EIK/Modulator Faults: None



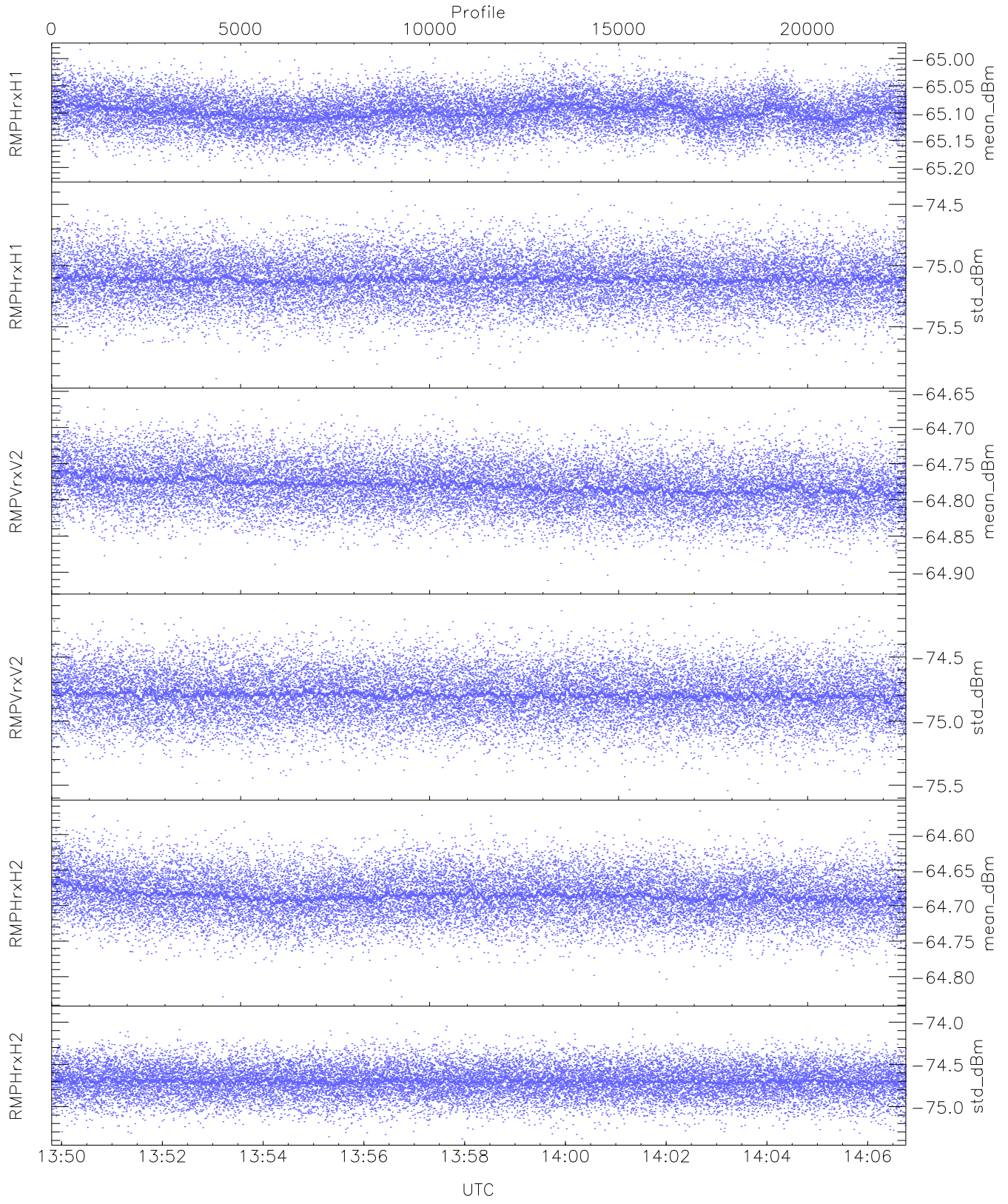



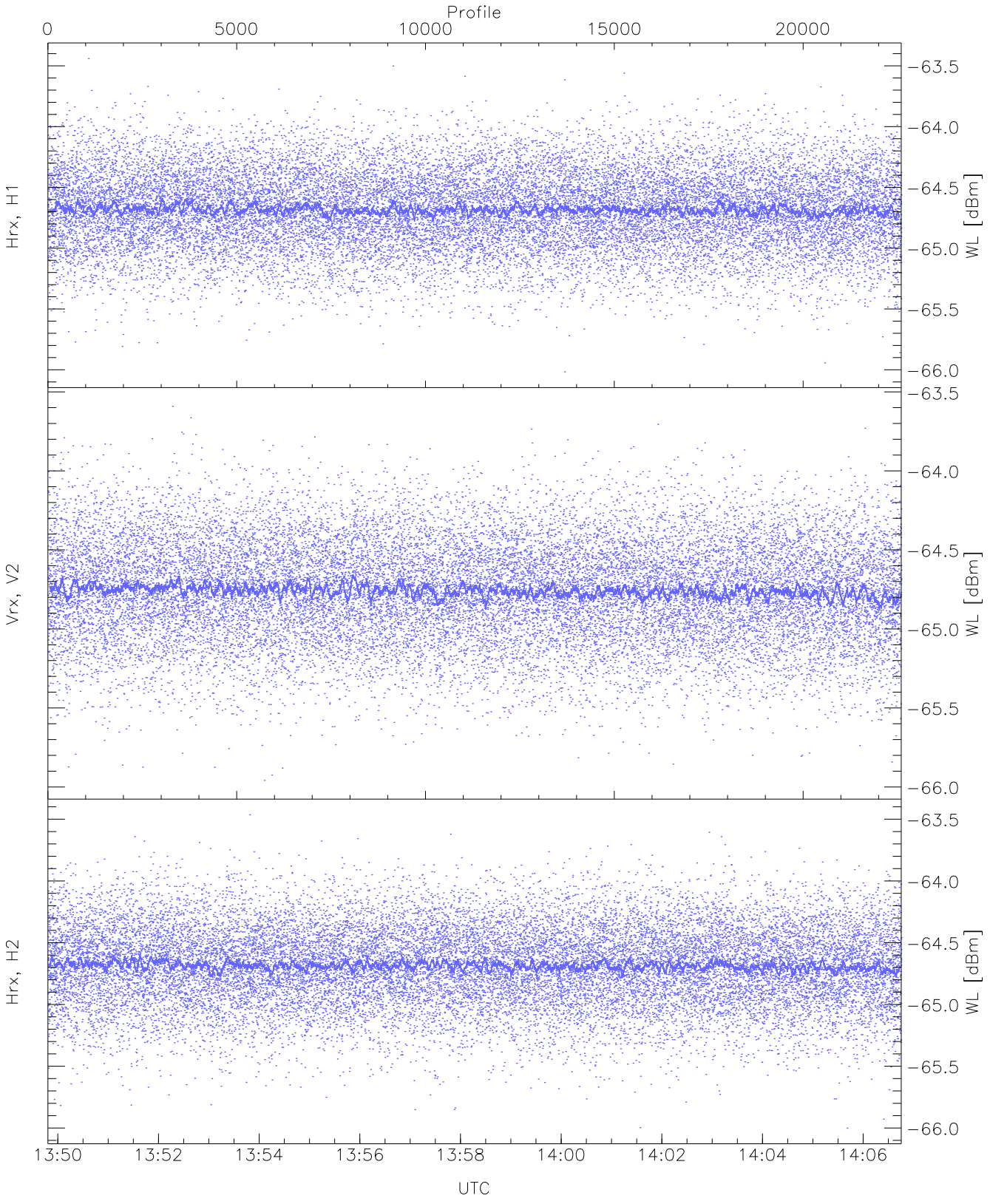

WCR3 CPP Receivers Gain and Noise Figure

Rx Saturation: 1 pixs, 1 gates, 1 profs, 1 prod(s)



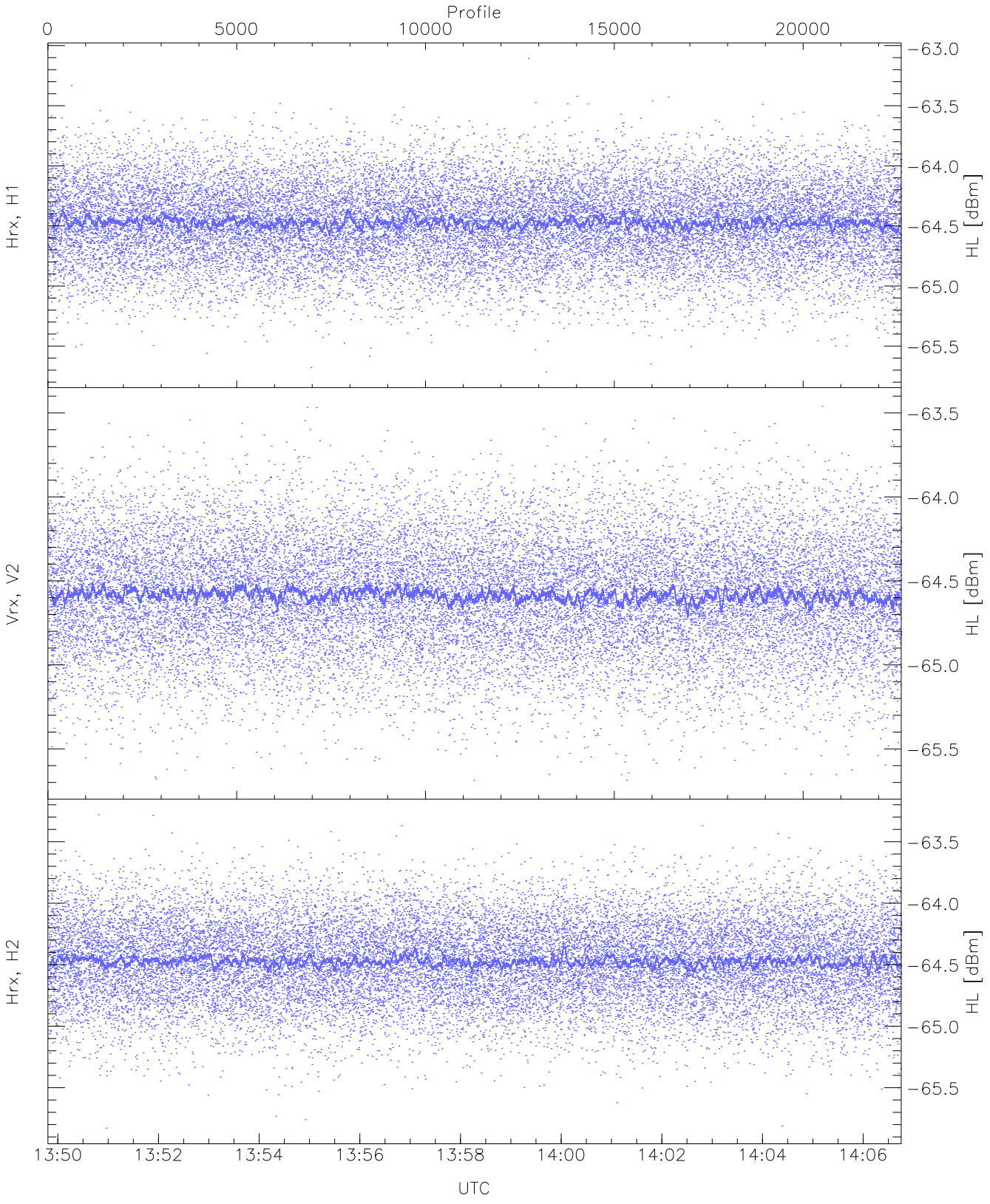

WCR3 CPP RM pulses(Tx is OFF) received power: Mean, StDev(all gates)

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| RMPHrxH1(mean_dBm) | -65.22 | -64.98 | -65.10 | -65.10 | -86.56 |
| RMPHrxH1(std_dBm) | -75.92 | -74.39 | -75.11 | -75.12 | -88.88 |
| RMPVrxV2(mean_dBm) | -64.92 | -64.66 | -64.78 | -64.78 | -86.24 |
| RMPVrxV2(std_dBm) | -75.54 | -74.08 | -74.80 | -74.80 | -88.57 |
| RMPHrxH2(mean_dBm) | -64.83 | -64.56 | -64.69 | -64.69 | -86.23 |
| RMPHrxH2(std_dBm) | -75.38 | -73.88 | -74.70 | -74.70 | -88.51 |



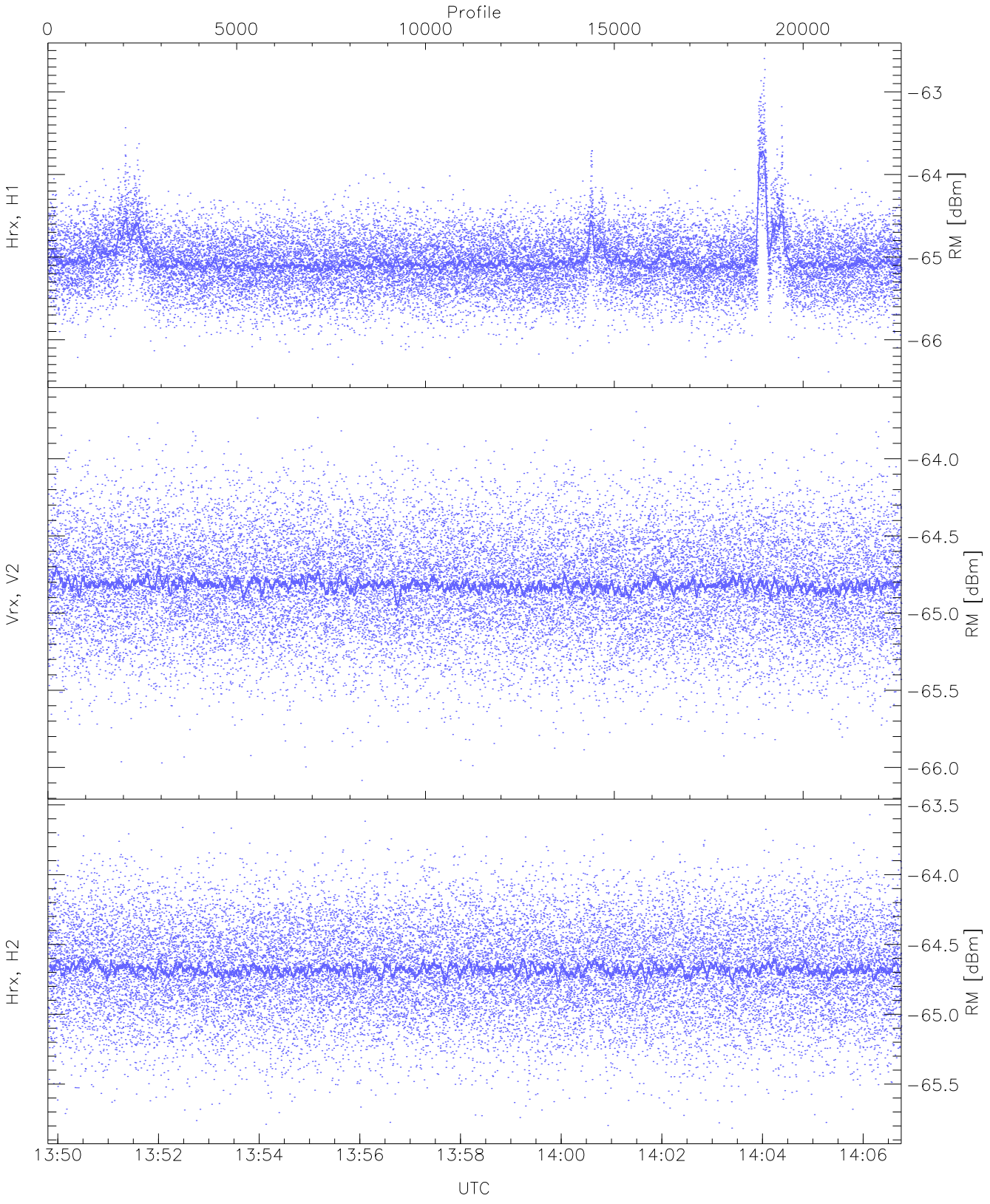

WCR3 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(WL [dBm]) | -66.02 | -63.44 | -64.68 | -64.68 | -76.18 |
| Vrx, V2(WL [dBm]) | -65.96 | -63.59 | -64.75 | -64.76 | -76.30 |
| Hrx, H2(WL [dBm]) | -66.00 | -63.46 | -64.68 | -64.69 | -76.20 |



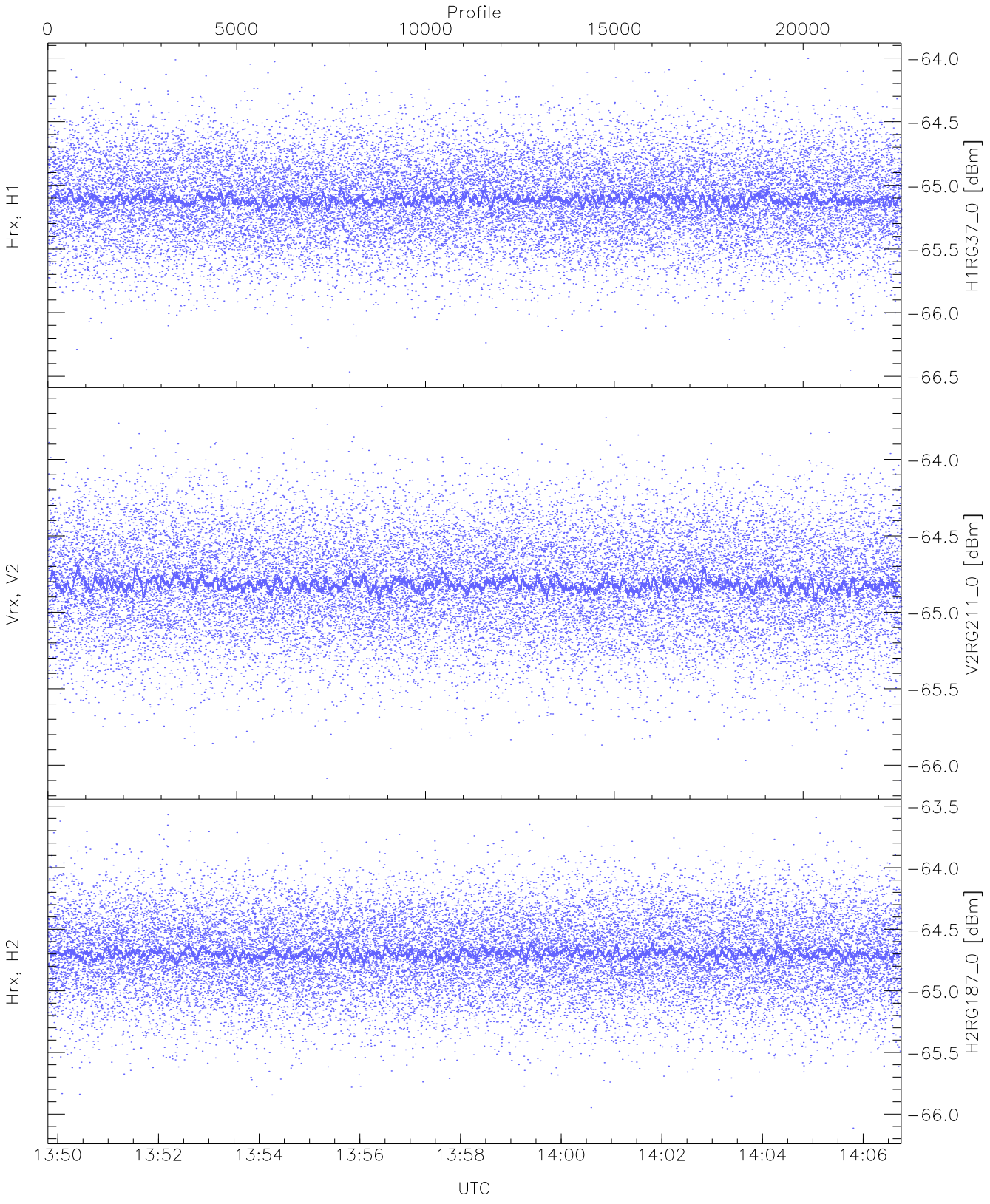

WCR3 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(HL [dBm]) | -65.71 | -63.11 | -64.47 | -64.47 | -76.01 |
| Vrx, V2(HL [dBm]) | -65.69 | -63.46 | -64.58 | -64.58 | -76.06 |
| Hrx, H2(HL [dBm]) | -65.83 | -63.28 | -64.47 | -64.47 | -75.97 |



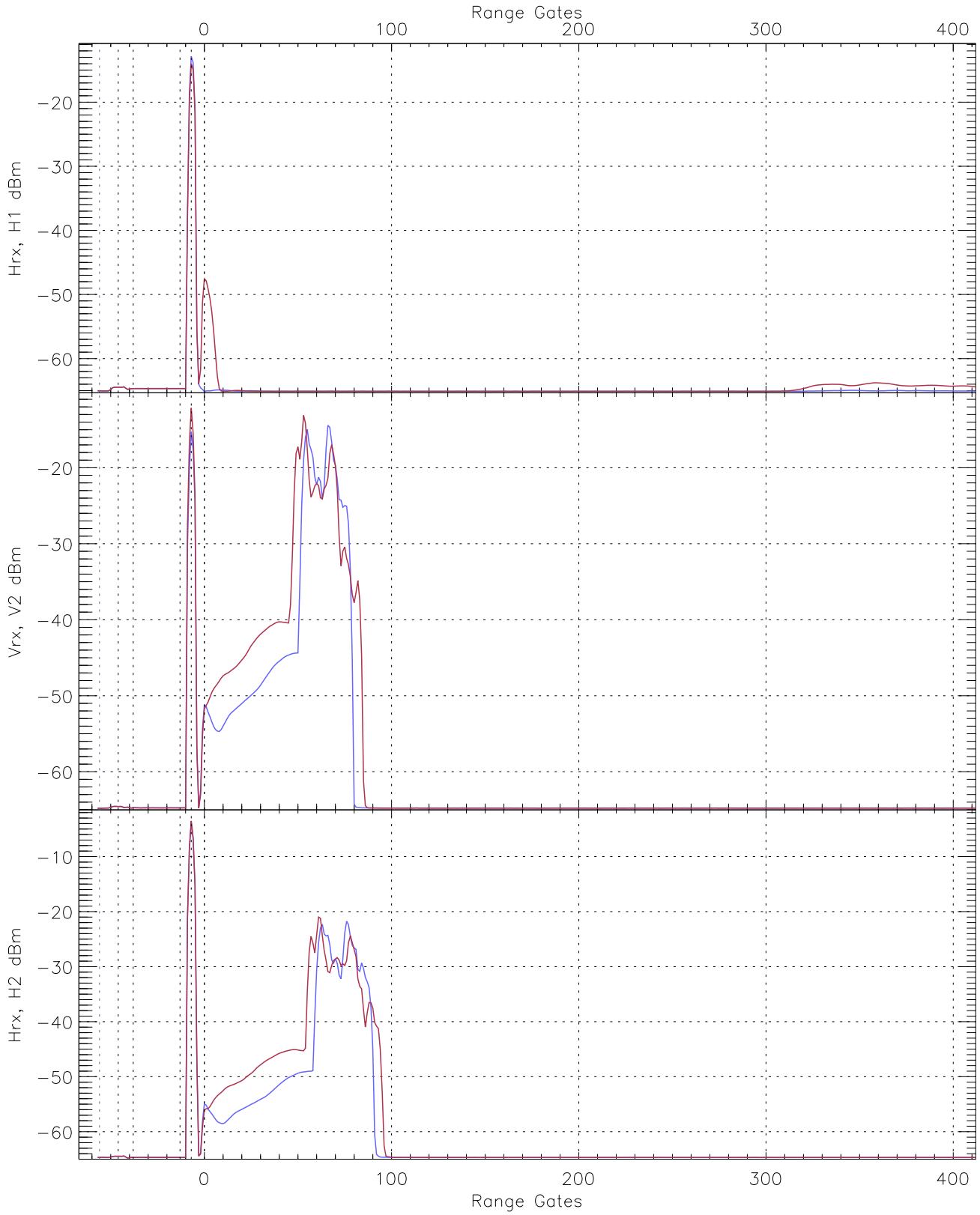

WCR3 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(RM [dBm]) | -66.39 | -62.60 | -65.03 | -65.05 | -75.82 |
| Vrx, V2(RM [dBm]) | -66.08 | -63.66 | -64.81 | -64.82 | -76.31 |
| Hrx, H2(RM [dBm]) | -65.82 | -63.57 | -64.67 | -64.68 | -76.17 |

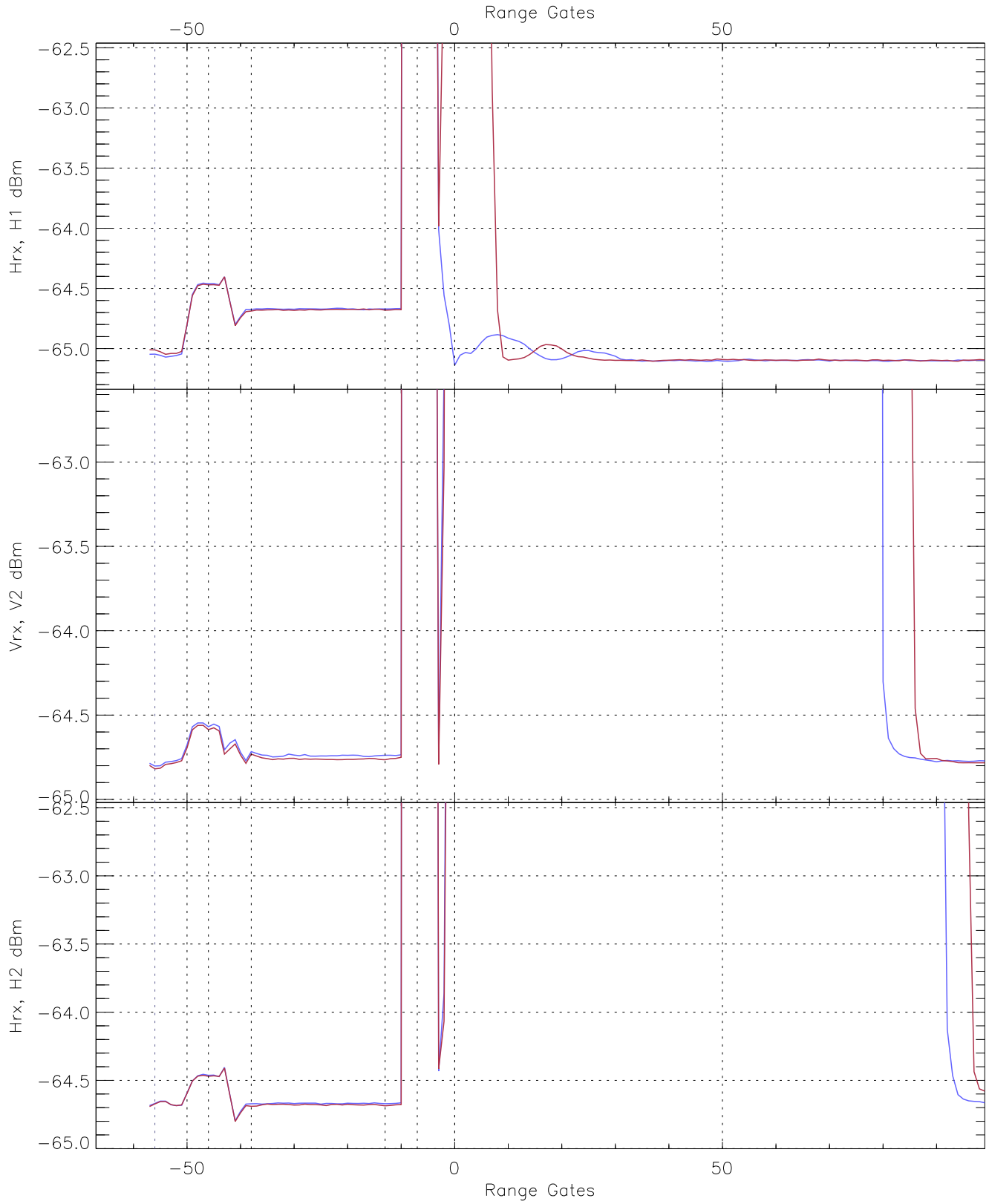



WCR3 CPP "Best" estimate Receivers Noise Power

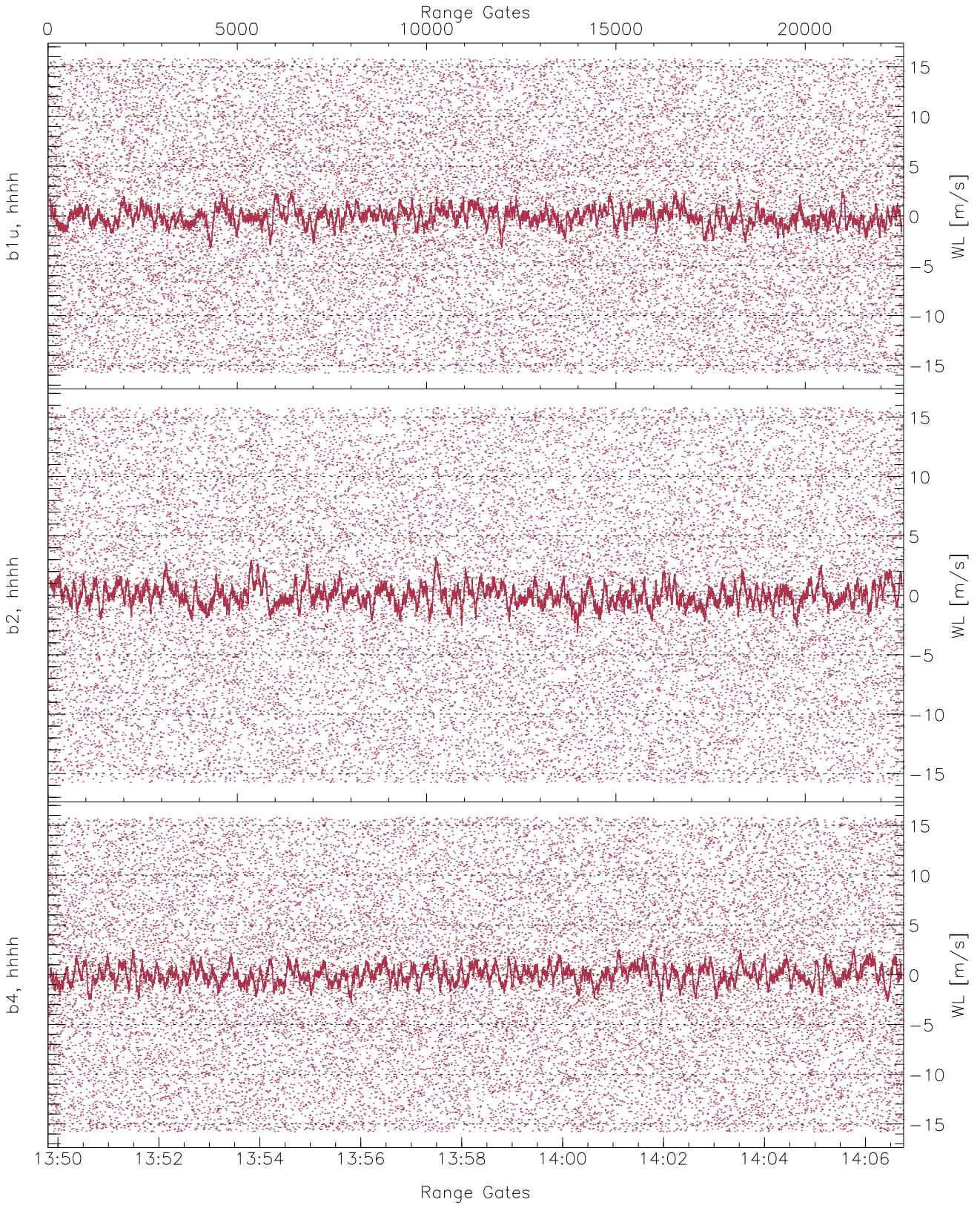
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| H1RG37_0 [dBm] | -66.47 | -64.00 | -65.10 | -65.11 | -76.66 |
| V2RG211_0 [dBm] | -66.10 | -63.65 | -64.81 | -64.82 | -76.32 |
| H2RG187_0 [dBm] | -66.11 | -63.57 | -64.69 | -64.70 | -76.23 |



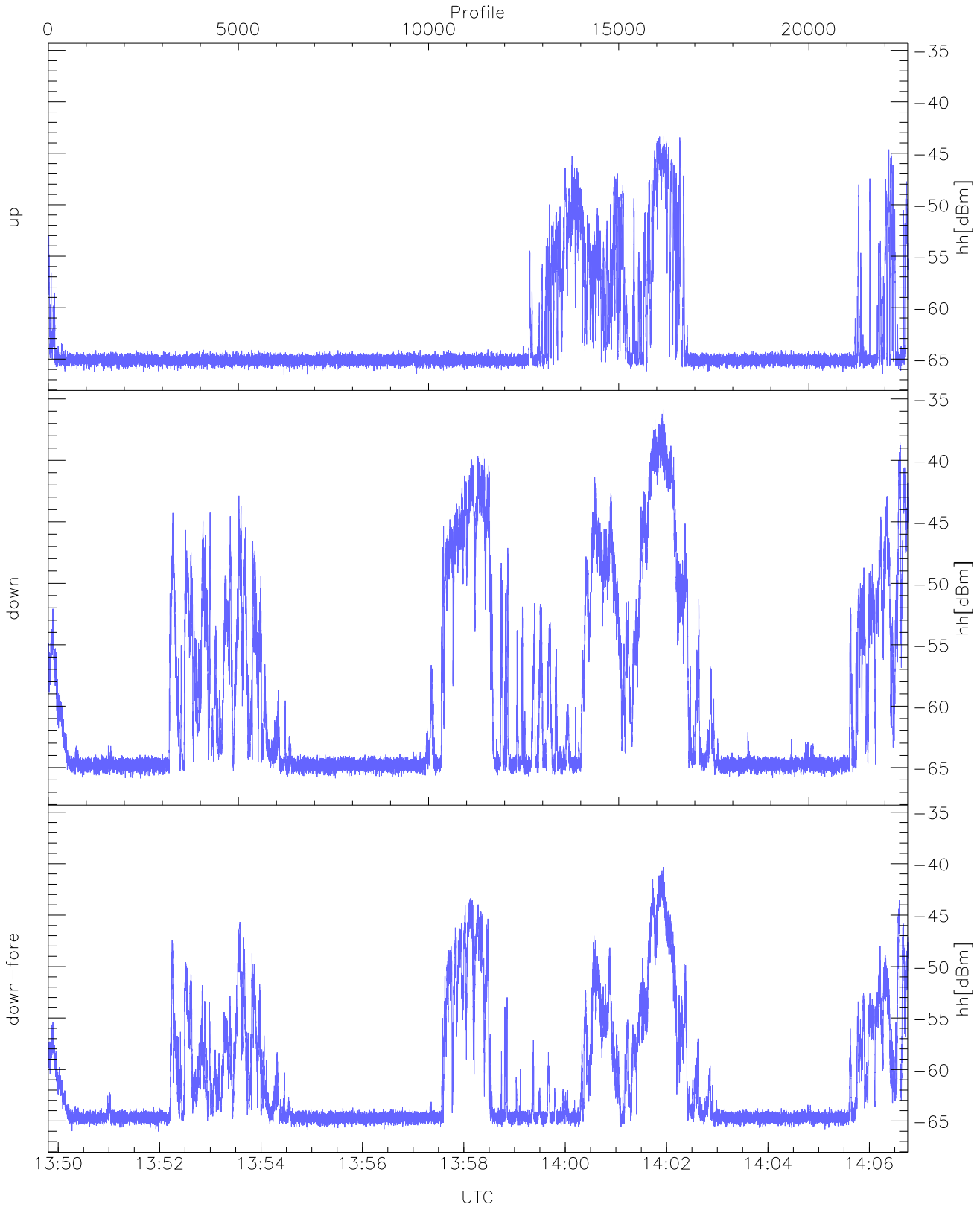

WCR3 CPP Averaged Received power for all recorded gates
blue: 134948-135817, 11301 profiles averaged
red: 135817-140645, 11300 profiles averaged




WCR3 CPP Averaged Received power for the negative gates and up to 100 gate
blue: 134948-135817, 11301 profiles averaged
red: 135817-140645, 11300 profiles averaged

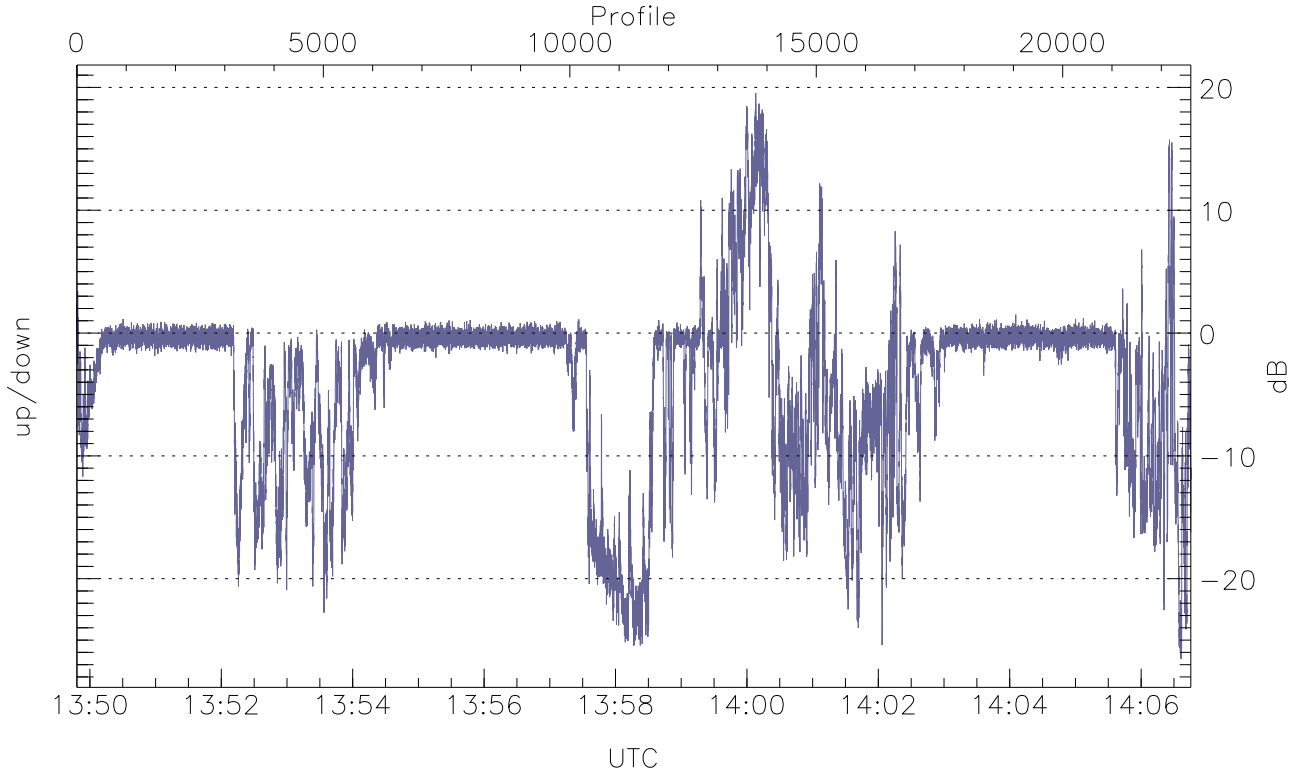


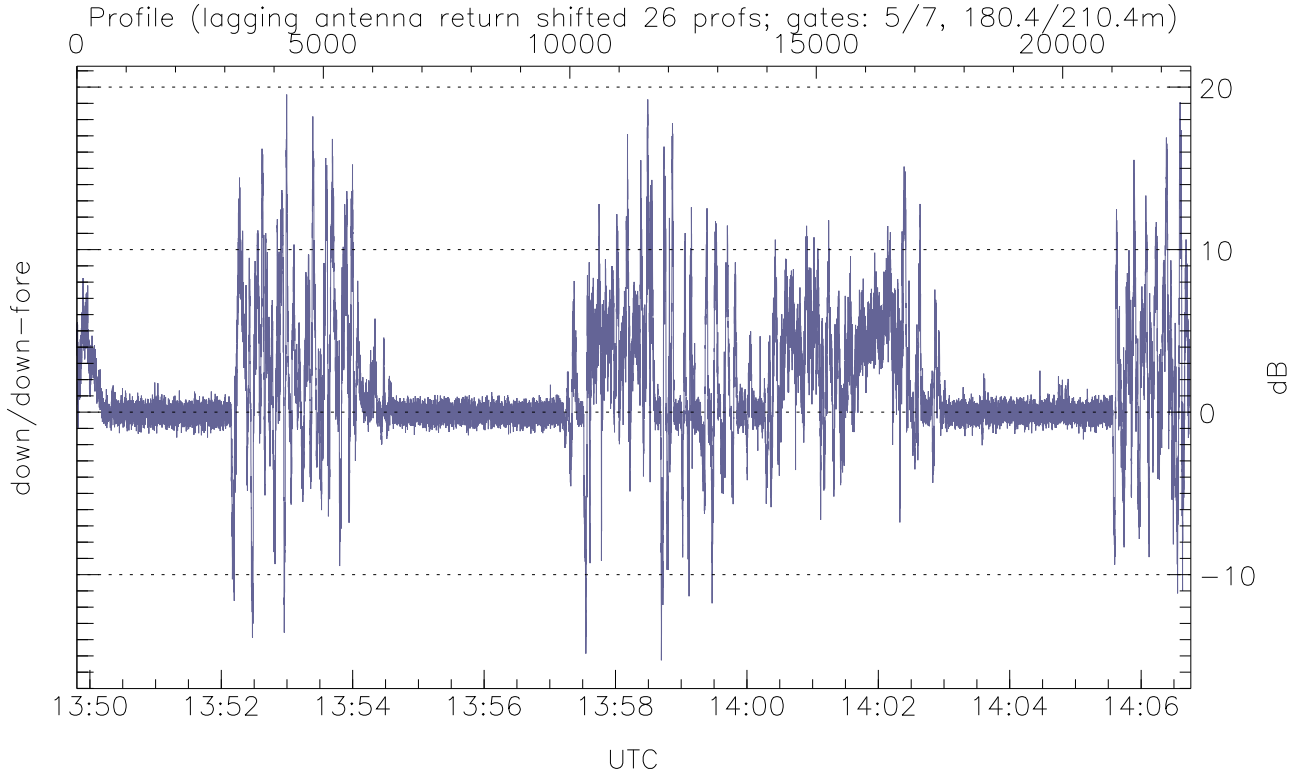

WCR3 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




WCR3 CPP Received Power Products for Range gate 5 (180.4 m)

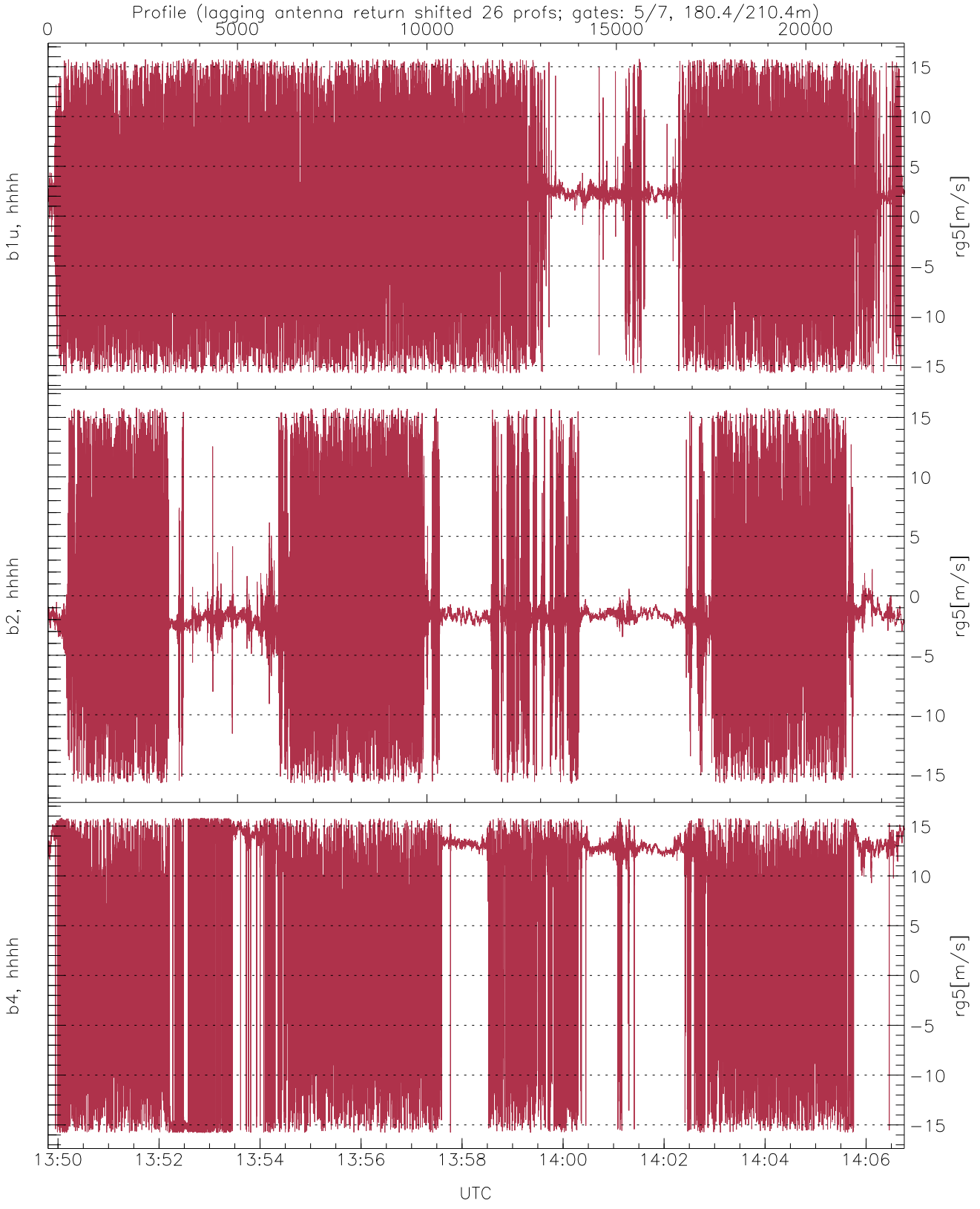
| | Min | Max | Mean |
|---|---|---|---|
| up(hh[dBm]) | -66.51 | -43.36 | -58.29 |
| down(hh[dBm]) | -65.87 | -35.84 | -50.91 |
| down-fore(hh[dBm]) | -66.02 | -40.38 | -55.53 |




WCR3 Beam pairs Received Power Ratio(s); RangeGate: 5 (180 m)

| | Min | Max | Mean |
|---|---|---|---|
| up/down(dB) | -26.55 | 19.52 | -3.87 |
| down/down-fore(dB) | -15.27 | 19.54 | 1.53 |




WCR3 CPP Doppler Velocity Products at 180.4 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b1u, hhhh(rg5[m/s]) | -15.79 | 15.79 | 0.45 | 7.73 |
| b2, hhhh(rg5[m/s]) | -15.78 | 15.79 | -0.94 | 6.00 |
| b4, hhhh(rg5[m/s]) | -15.79 | 15.79 | 4.53 | 10.17 |