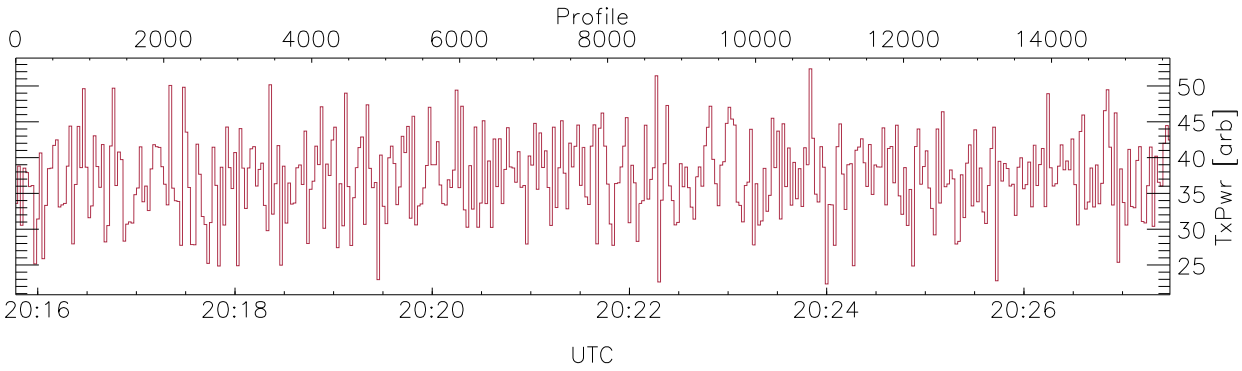
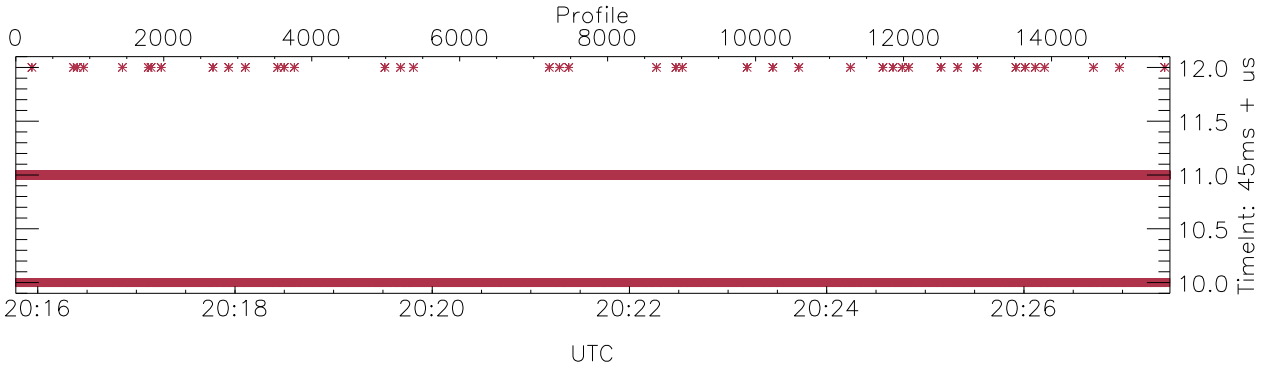
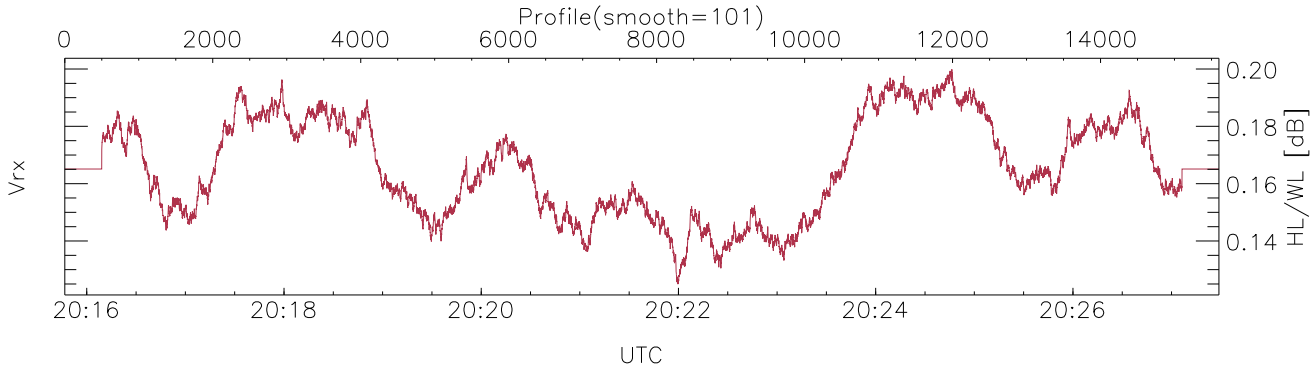
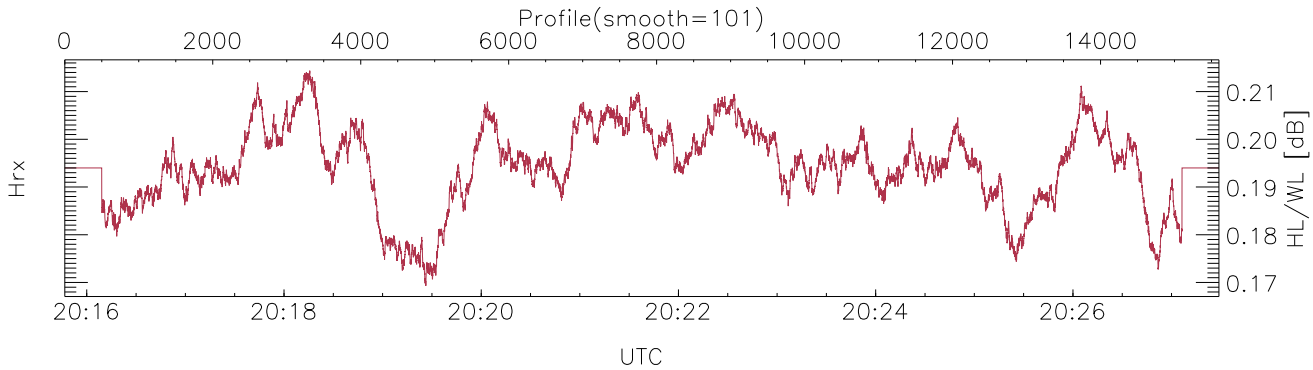


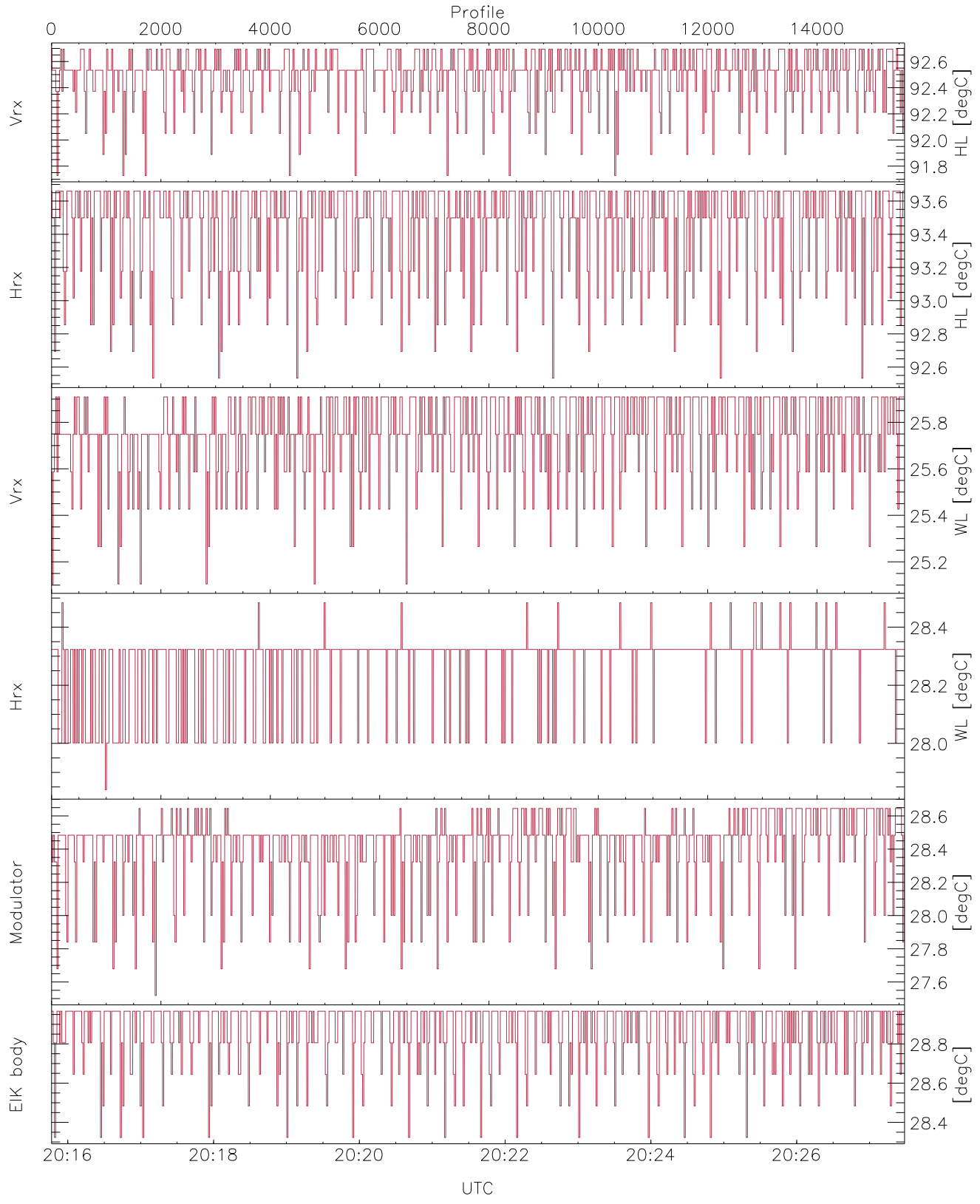



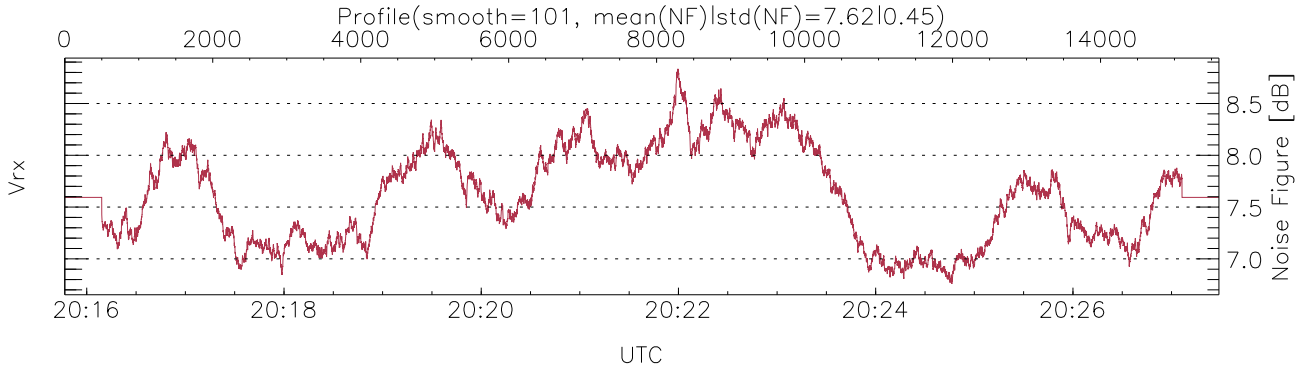

## WCR3 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

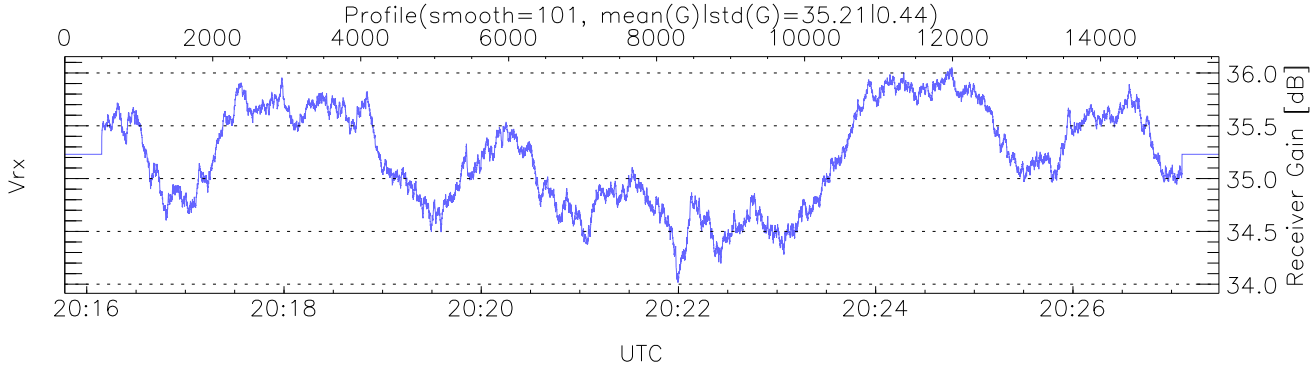
UTC: 20:15:47-20:27:29, TimeCor: 0.00s, Dur: 702.22s
TimeFlg: 1, TFPstatus constant.
TimeInt/PPS(min,max,mn,std): 45.0,45.0,45.0,0.0 ms / 22.2,22.2,22.2
NumRec(r/t): 15602/15602, 0-15601/20:15:47-20:27:29
AcqTime: 45.0ms, Rate: 0.490MB/s, Averages (req.,actual): 100,100
Pulse: 250ns, IFF: 4.0MHz, Tx: 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

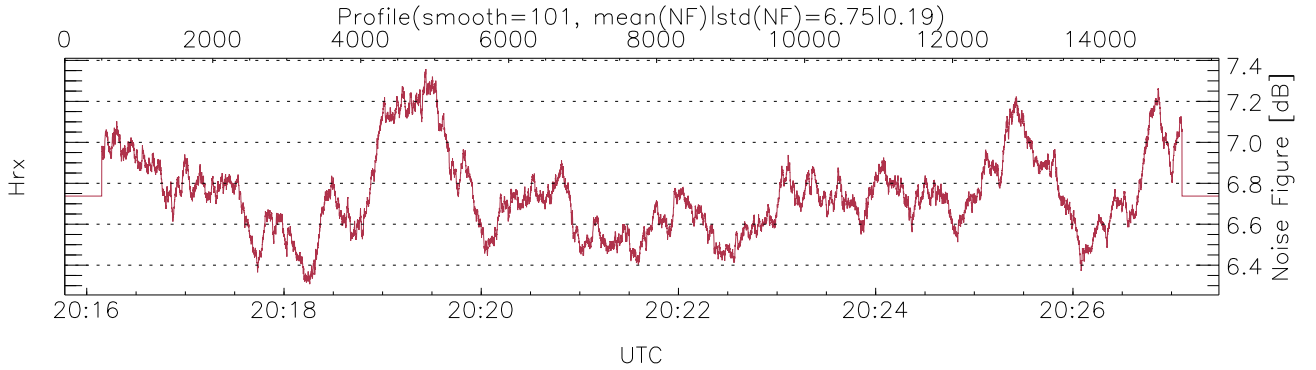


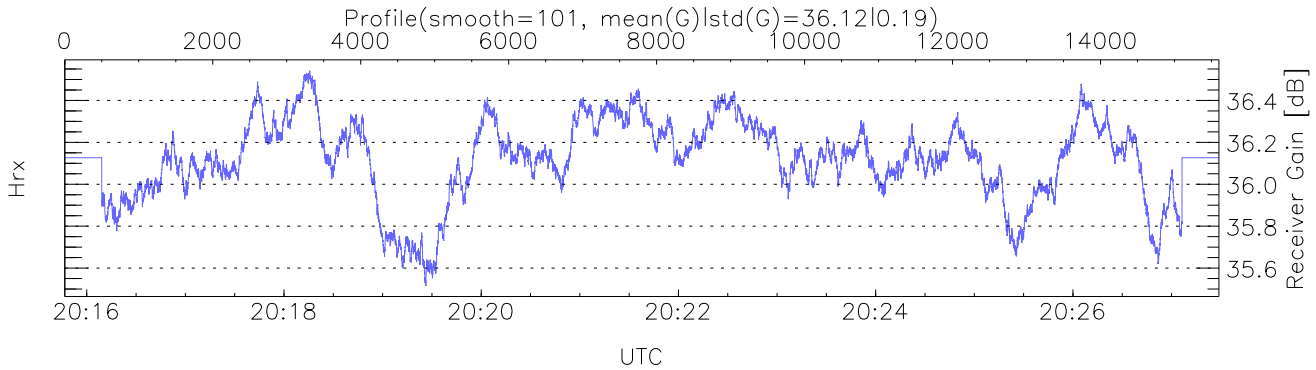

WCR3 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,92,25,27,27,28
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,93,25,28,28,28
LOalarm(20,240,2817,14861 MHz): 0,0,44,0
EIK/Modulator Faults: None



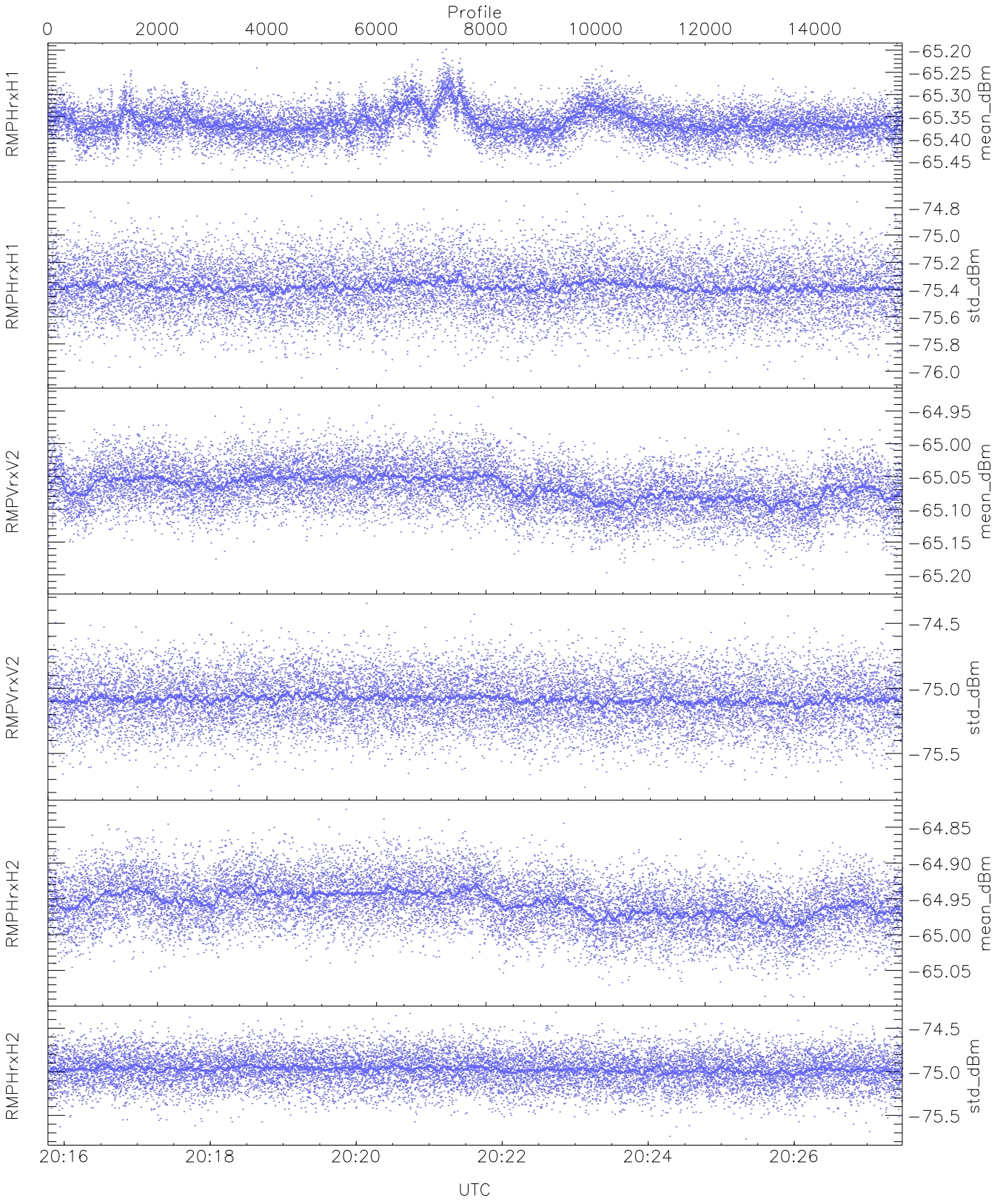



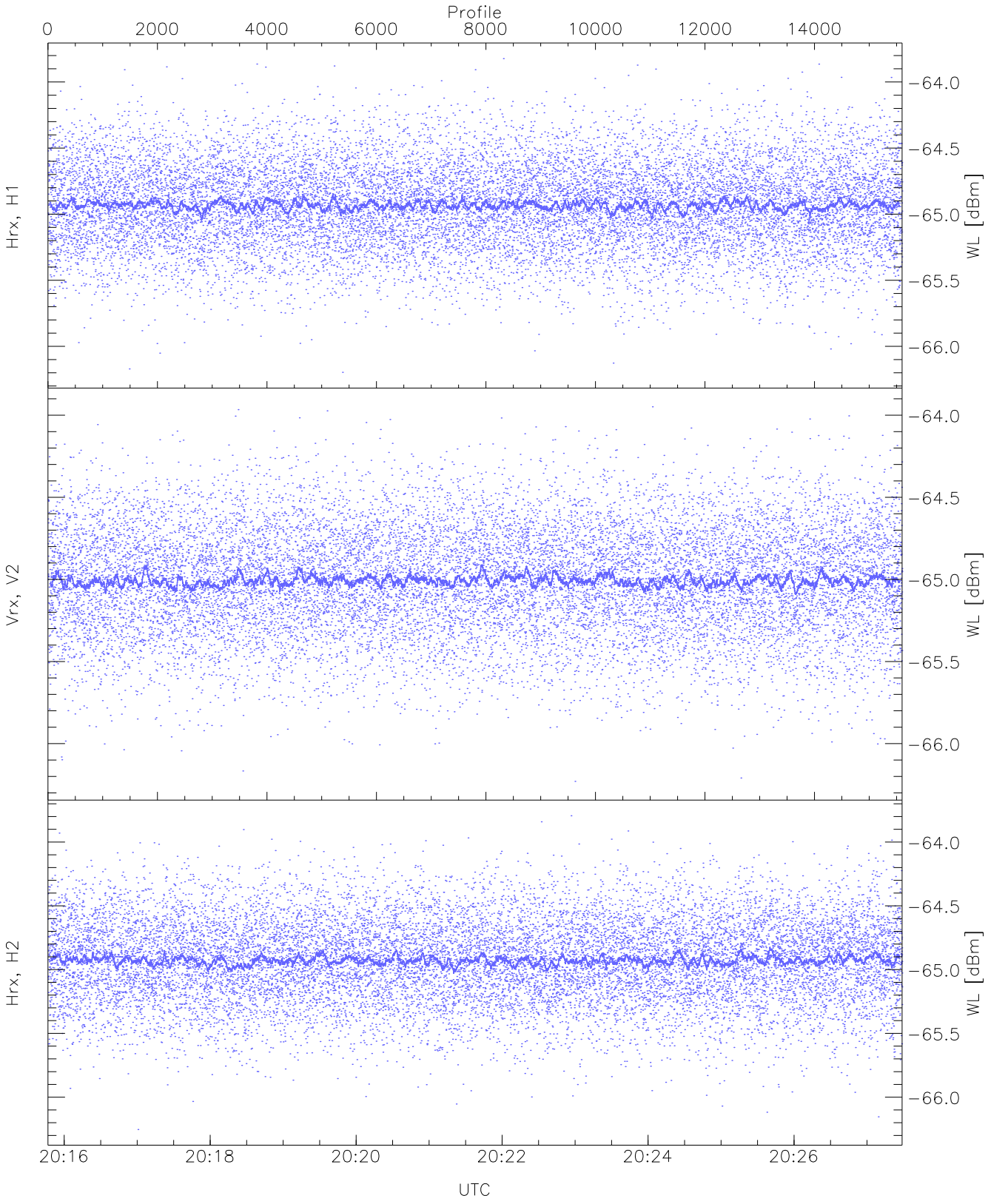

WCR3 CPP Receivers Gain and Noise Figure

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



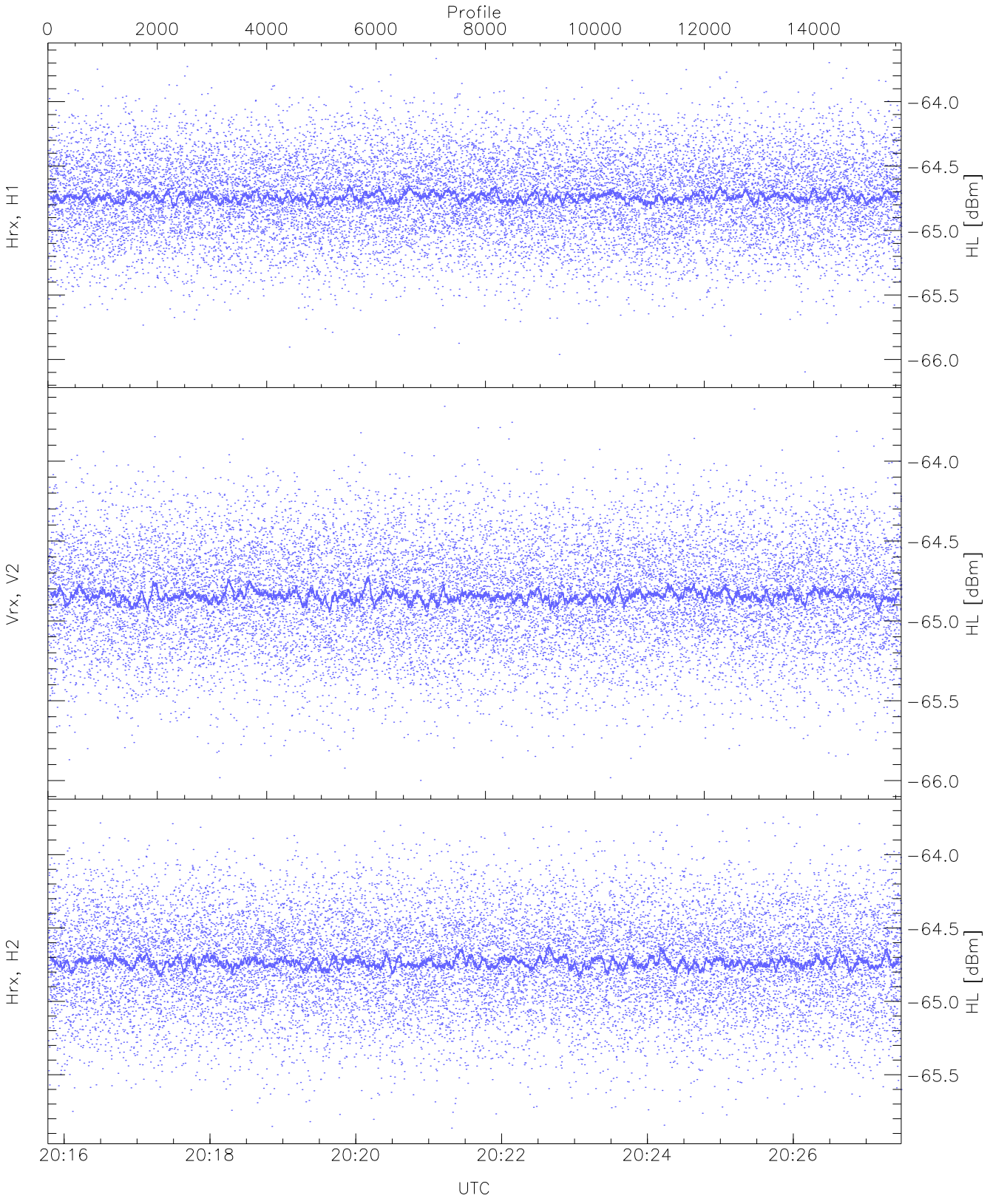

WCR3 CPP RM pulses(Tx is OFF) received power: Mean, StDev(all gates)

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| RMPHrxH1(mean_dBm) | -65.48 | -65.20 | -65.36 | -65.36 | -86.20 |
| RMPHrxH1(std_dBm) | -76.06 | -74.68 | -75.38 | -75.38 | -89.18 |
| RMPVrxV2(mean_dBm) | -65.22 | -64.93 | -65.07 | -65.07 | -86.17 |
| RMPVrxV2(std_dBm) | -75.79 | -74.35 | -75.08 | -75.08 | -88.86 |
| RMPHrxH2(mean_dBm) | -65.09 | -64.83 | -64.96 | -64.96 | -86.09 |
| RMPHrxH2(std_dBm) | -75.77 | -74.32 | -74.97 | -74.97 | -88.75 |



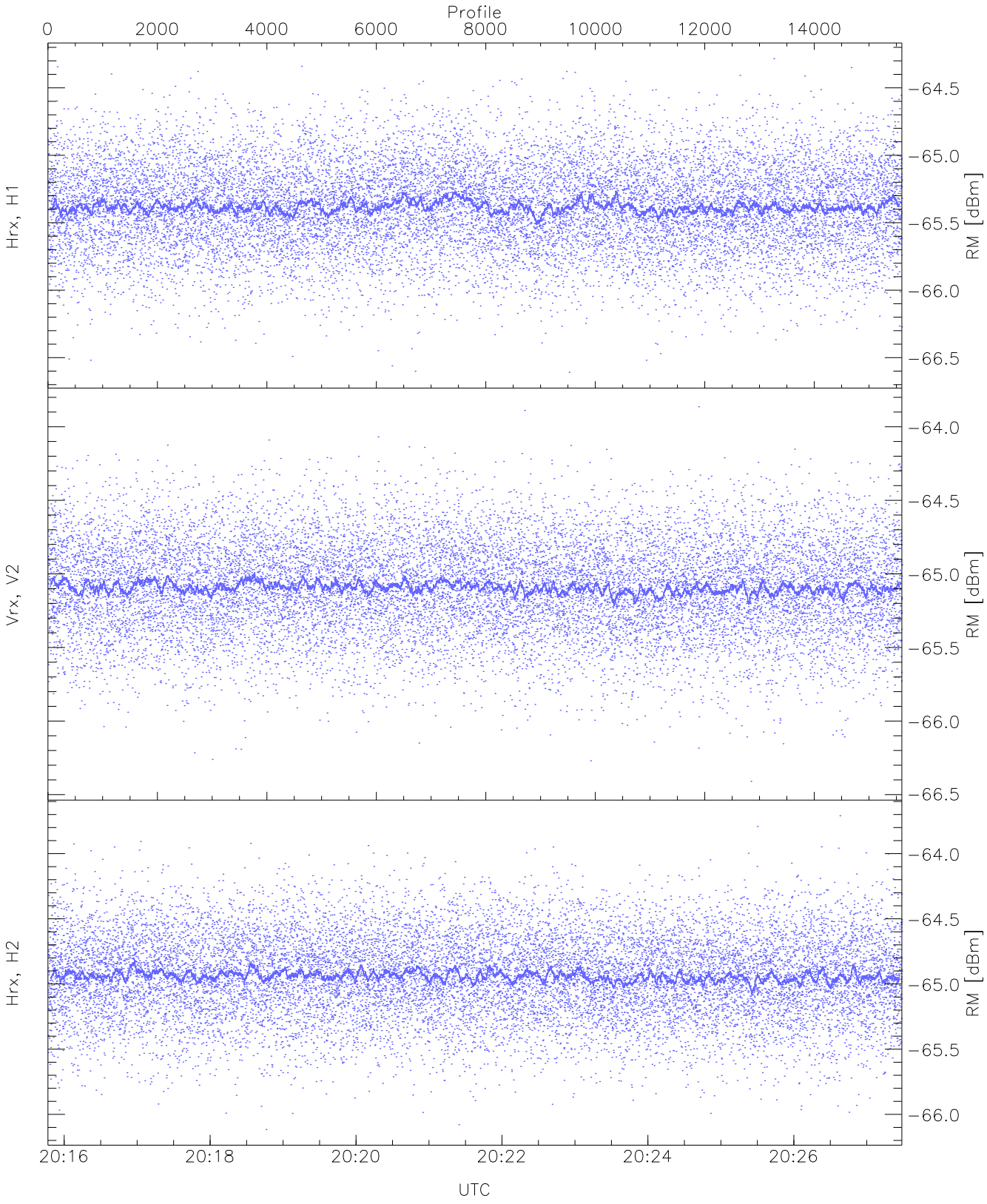

WCR3 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(WL [dBm]) | -66.20 | -63.82 | -64.92 | -64.93 | -76.44 |
| Vrx, V2(WL [dBm]) | -66.23 | -63.95 | -65.00 | -65.00 | -76.51 |
| Hrx, H2(WL [dBm]) | -66.25 | -63.79 | -64.92 | -64.92 | -76.40 |



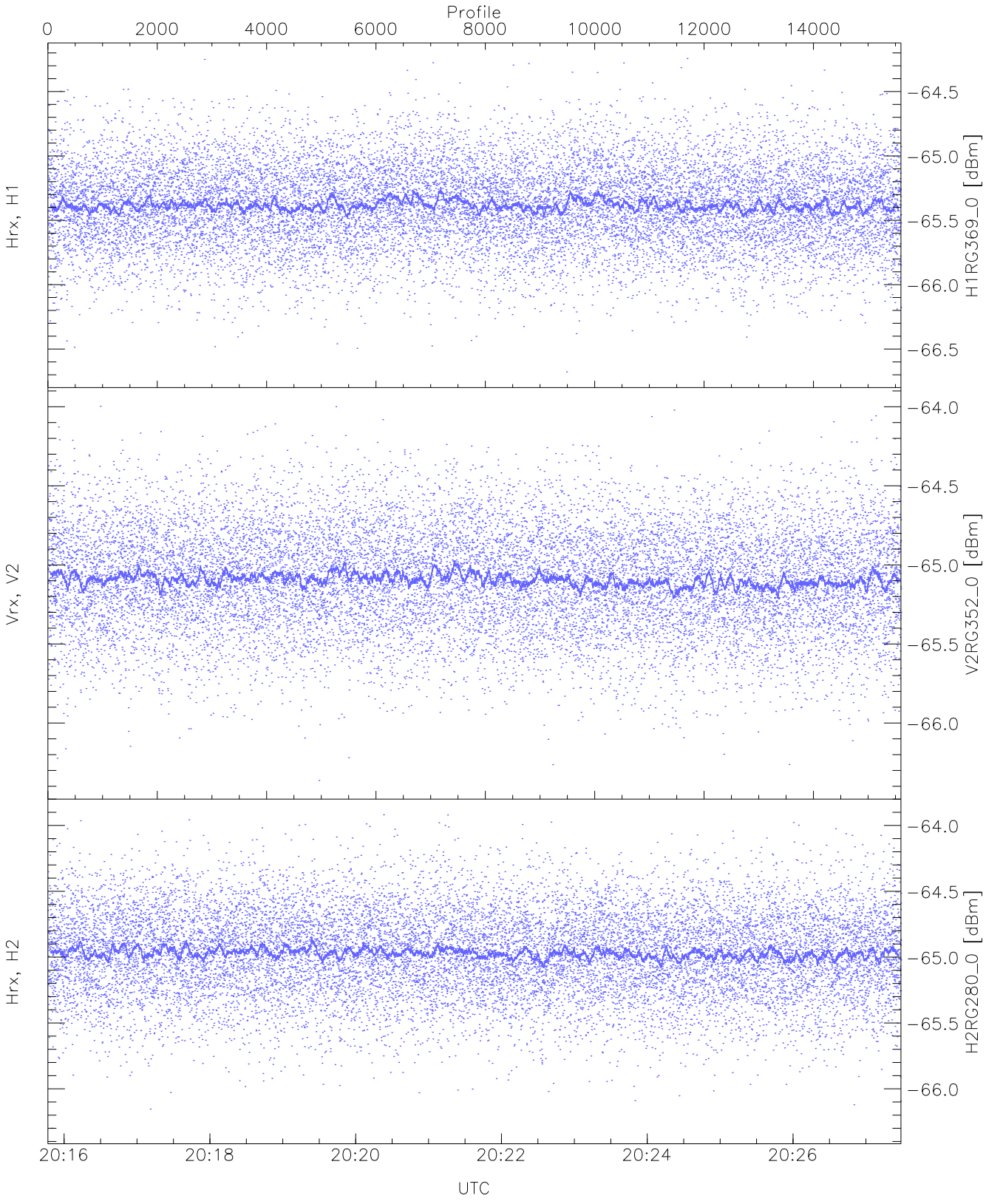

WCR3 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(HL [dBm]) | -66.10 | -63.67 | -64.73 | -64.74 | -76.25 |
| Vrx, V2(HL [dBm]) | -66.00 | -63.66 | -64.83 | -64.84 | -76.31 |
| Hrx, H2(HL [dBm]) | -65.86 | -63.73 | -64.73 | -64.73 | -76.21 |



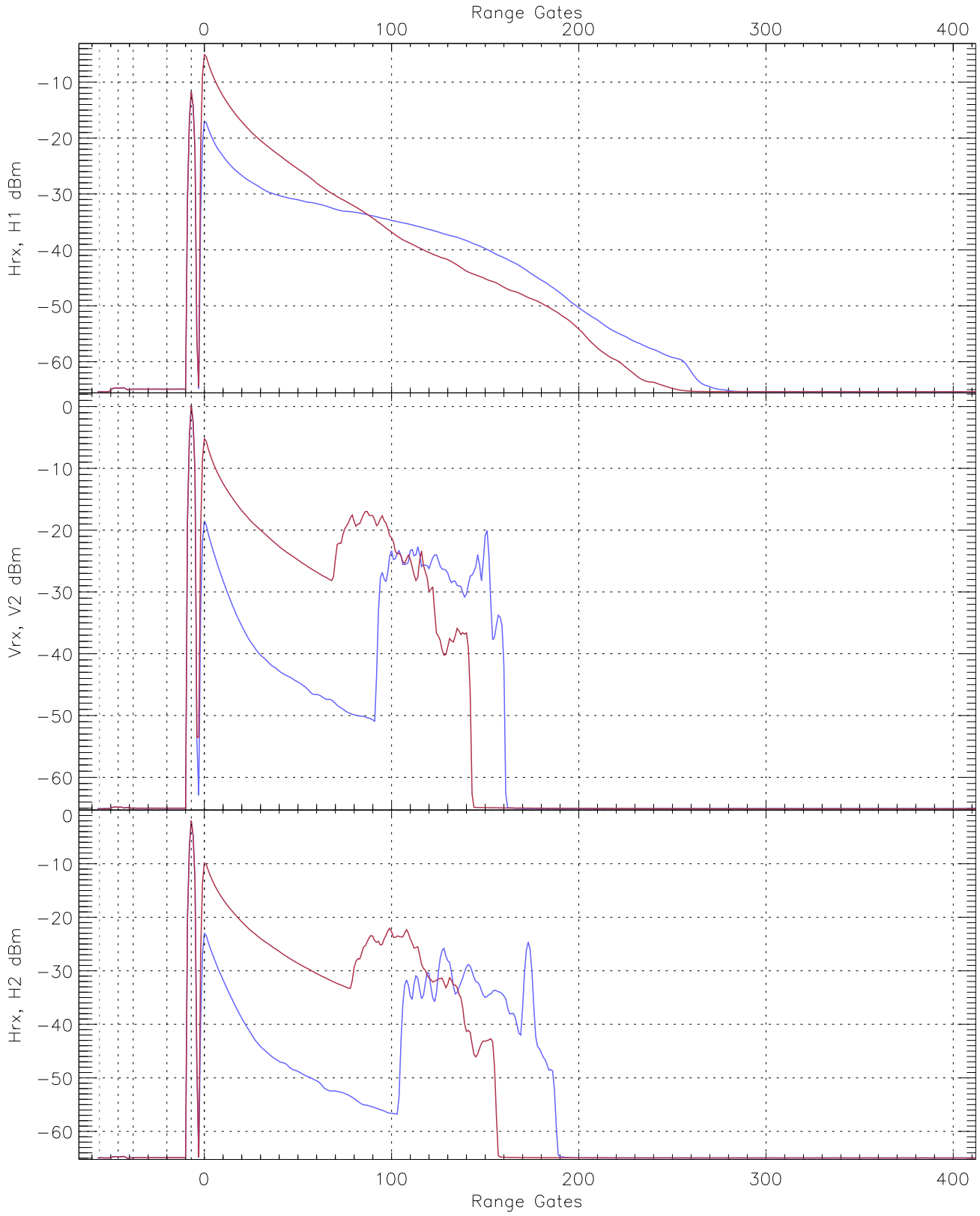

WCR3 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(RM [dBm]) | -66.61 | -64.28 | -65.37 | -65.38 | -76.87 |
| Vrx, V2(RM [dBm]) | -66.41 | -63.86 | -65.09 | -65.09 | -76.61 |
| Hrx, H2(RM [dBm]) | -66.12 | -63.71 | -64.93 | -64.94 | -76.44 |

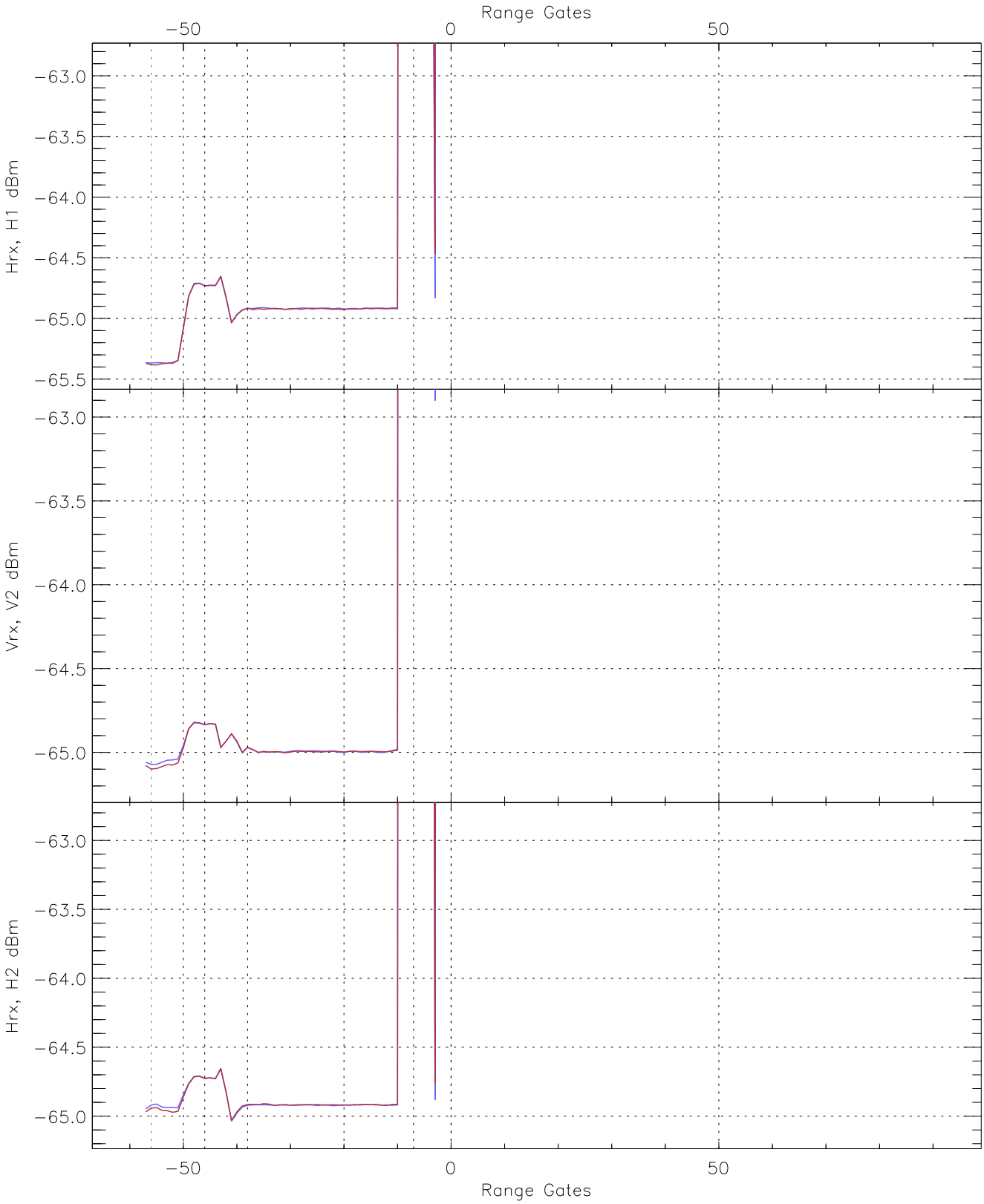



WCR3 CPP "Best" estimate Receivers Noise Power

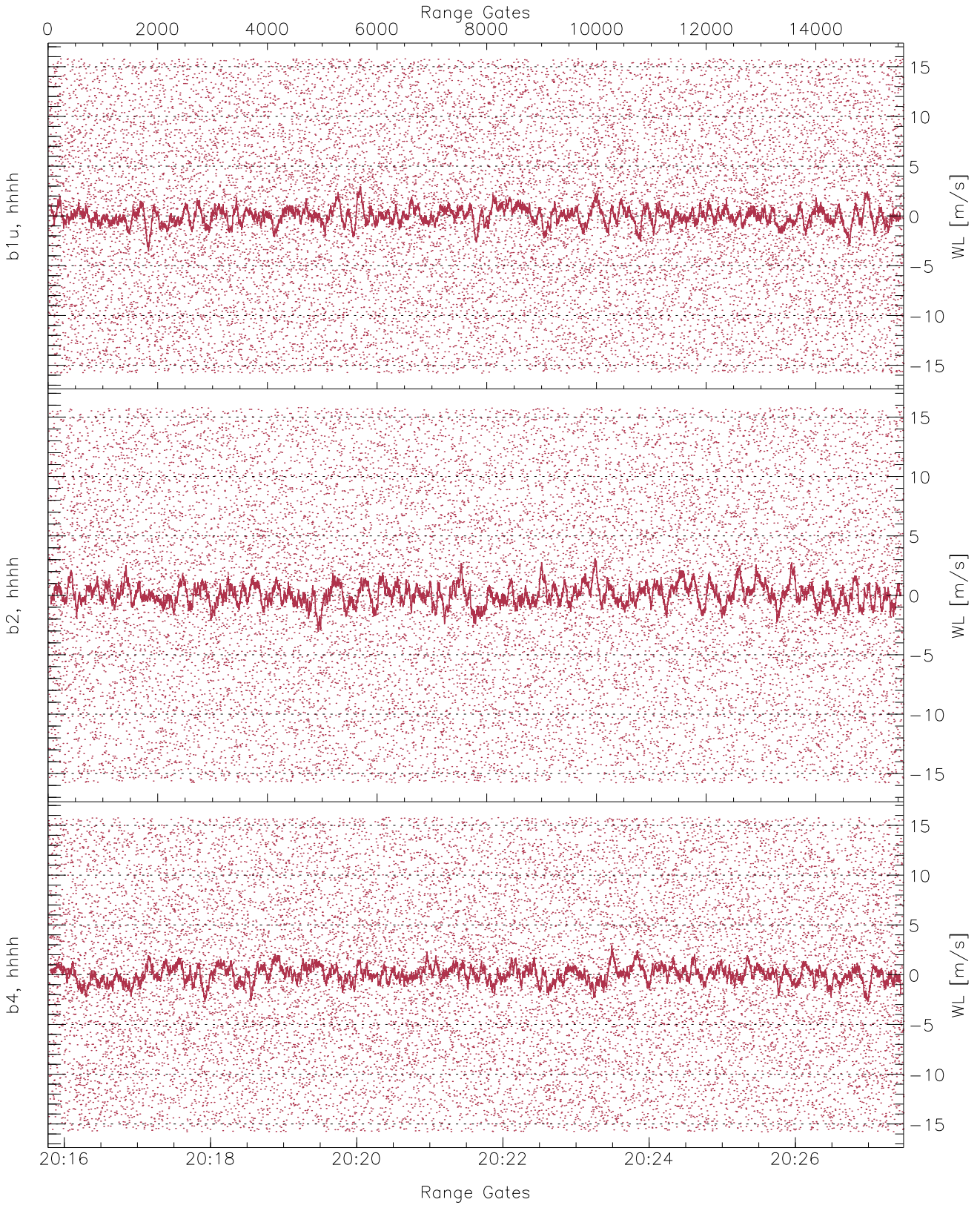
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| H1RG369_0 [dBm] | -66.68 | -64.24 | -65.37 | -65.38 | -76.91 |
| V2RG352_0 [dBm] | -66.36 | -64.00 | -65.09 | -65.09 | -76.57 |
| H2RG280_0 [dBm] | -66.30 | -63.92 | -64.96 | -64.97 | -76.42 |



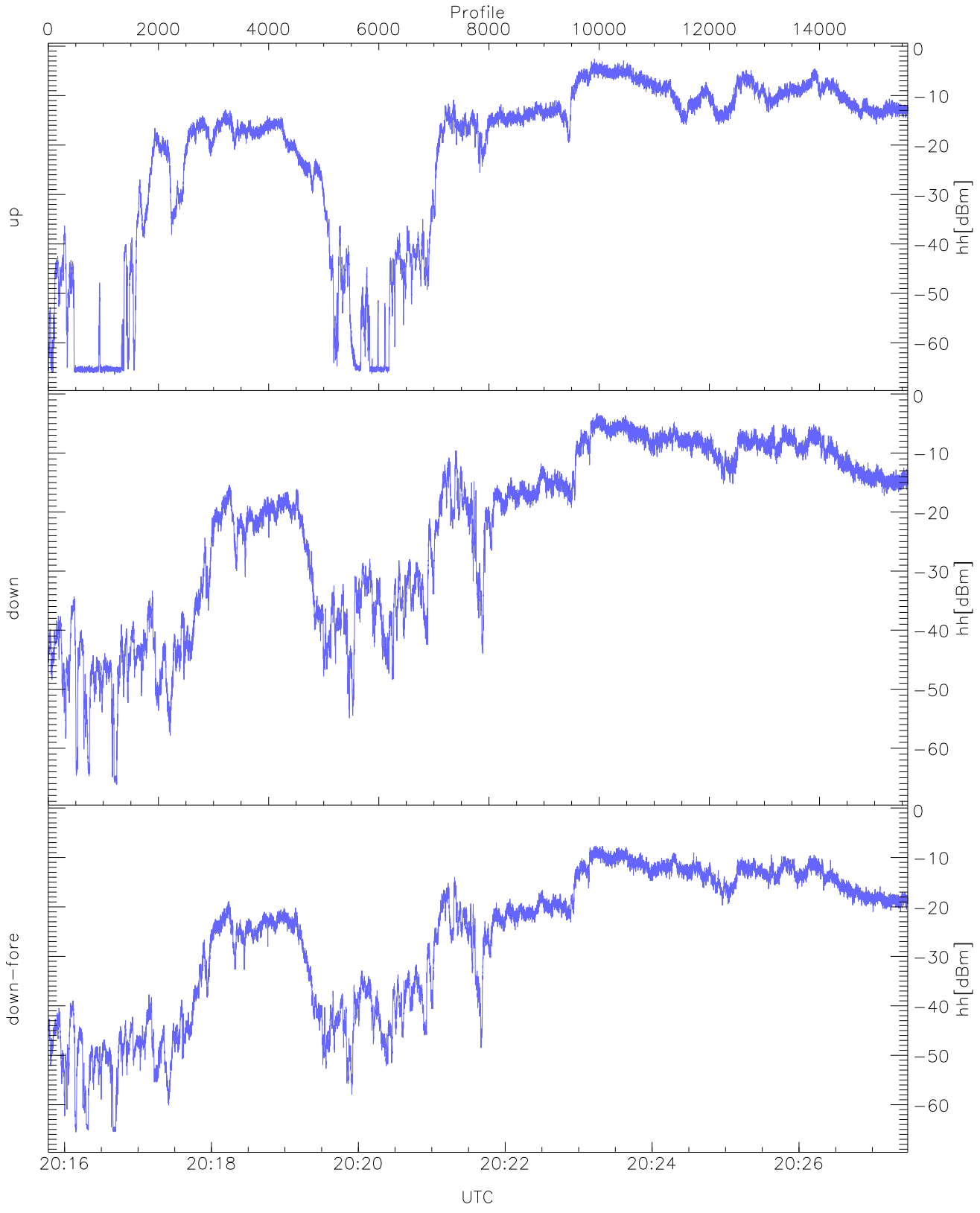

WCR3 CPP Averaged Received power for all recorded gates
blue: 201547-202138, 7802 profiles averaged
red: 202138-202729, 7801 profiles averaged




WCR3 CPP Averaged Received power for the negative gates and up to 100 gate
blue: 201547-202138, 7802 profiles averaged
red: 202138-202729, 7801 profiles averaged

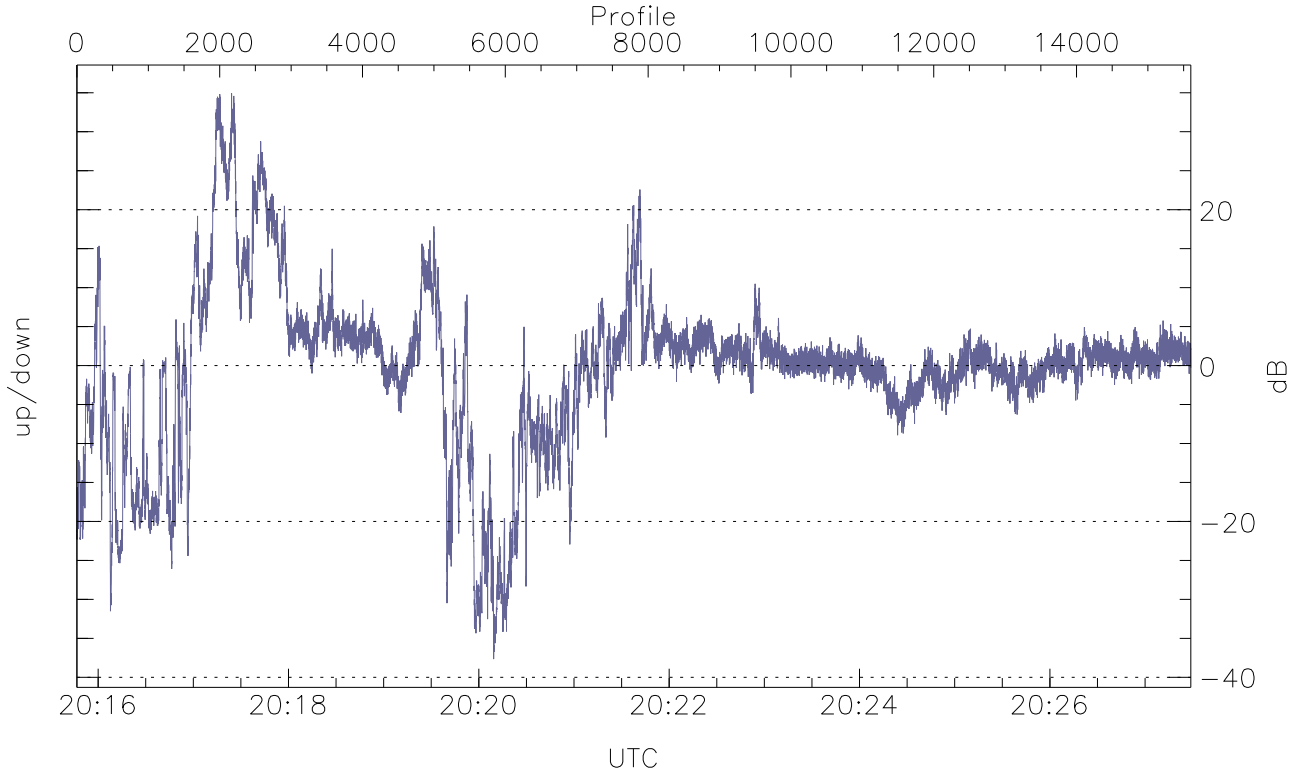


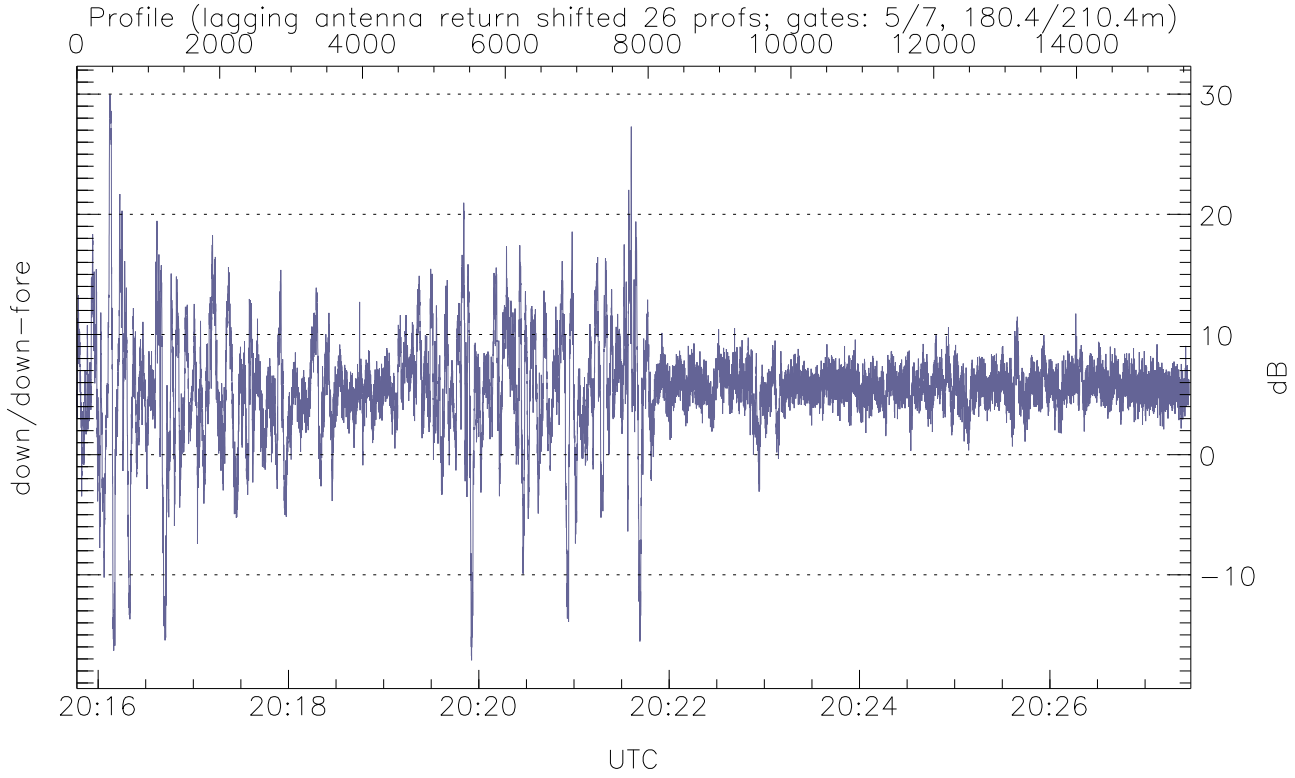

WCR3 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




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

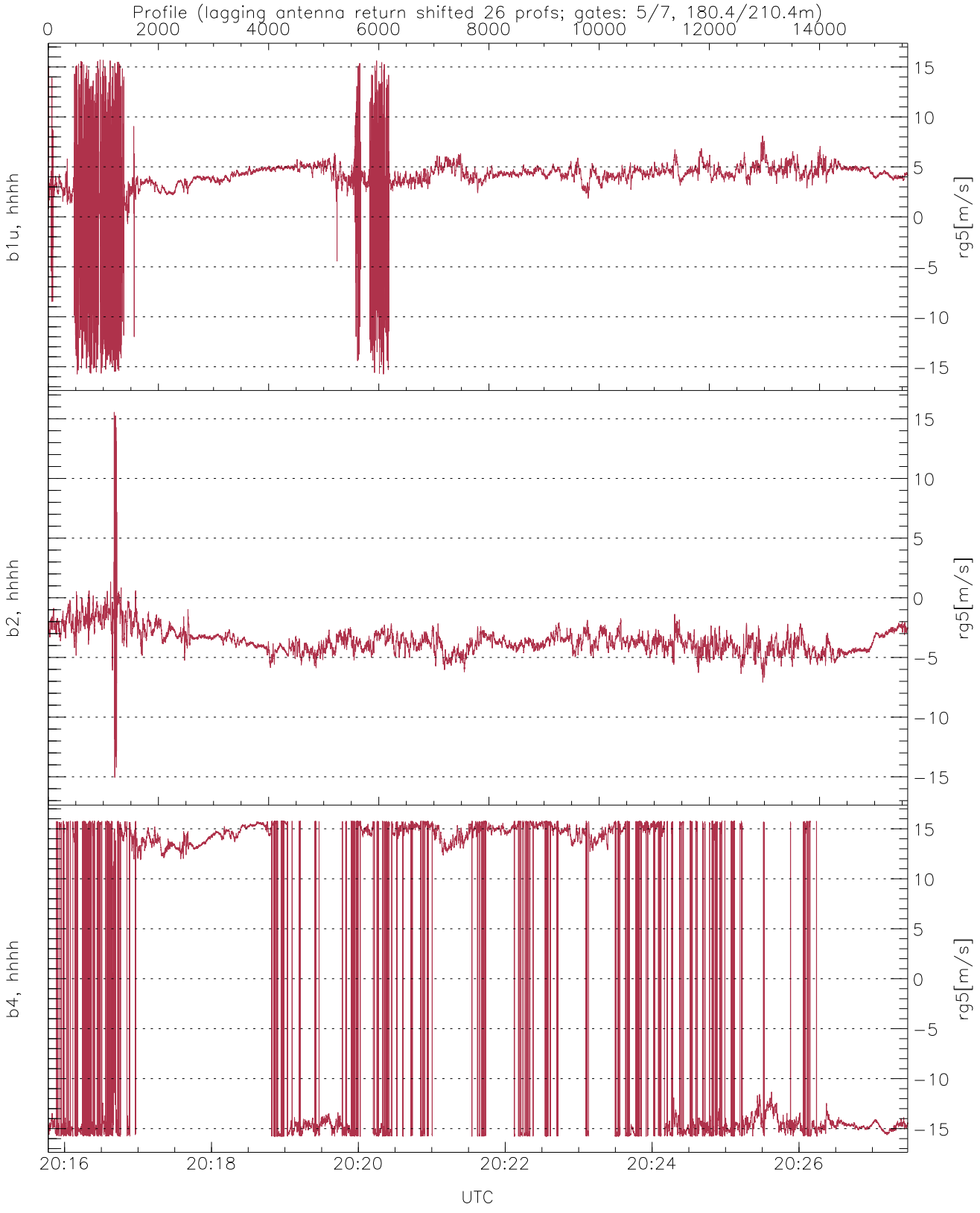
| | Min | Max | Mean |
|---|---|---|---|
| up(hh[dBm]) | -66.44 | -2.60 | -11.89 |
| down(hh[dBm]) | -66.16 | -3.25 | -12.19 |
| down-fore(hh[dBm]) | -65.56 | -7.61 | -16.48 |




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

| | Min | Max | Mean |
|---|---|---|---|
| up/down(dB) | -37.66 | 34.93 | -0.40 |
| down/down-fore(dB) | -17.11 | 29.97 | 5.48 |




WCR3 CPP Doppler Velocity Products at 180.4 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b1u, hhhh(rg5[m/s]) | -15.74 | 15.73 | 3.91 | 2.80 |
| b2, hhhh(rg5[m/s]) | -15.07 | 15.55 | -3.59 | 1.11 |
| b4, hhhh(rg5[m/s]) | -15.79 | 15.79 | 0.91 | 14.73 |