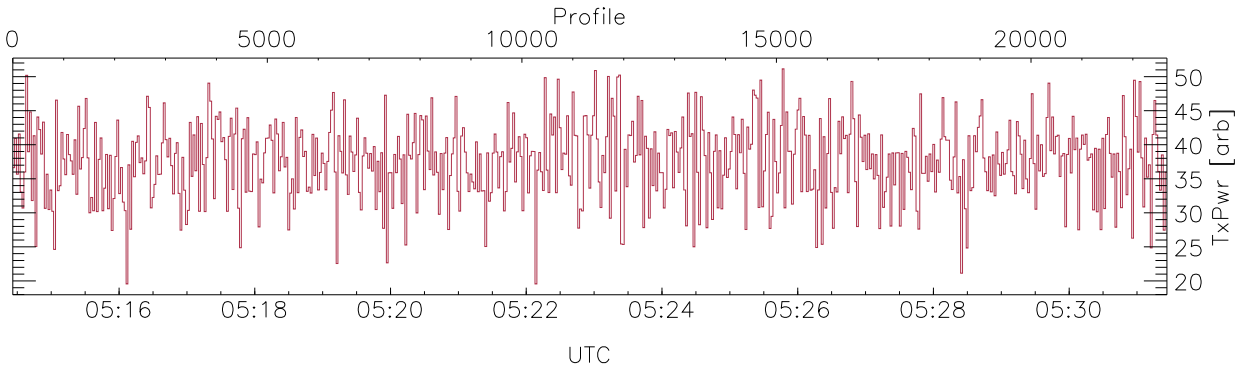
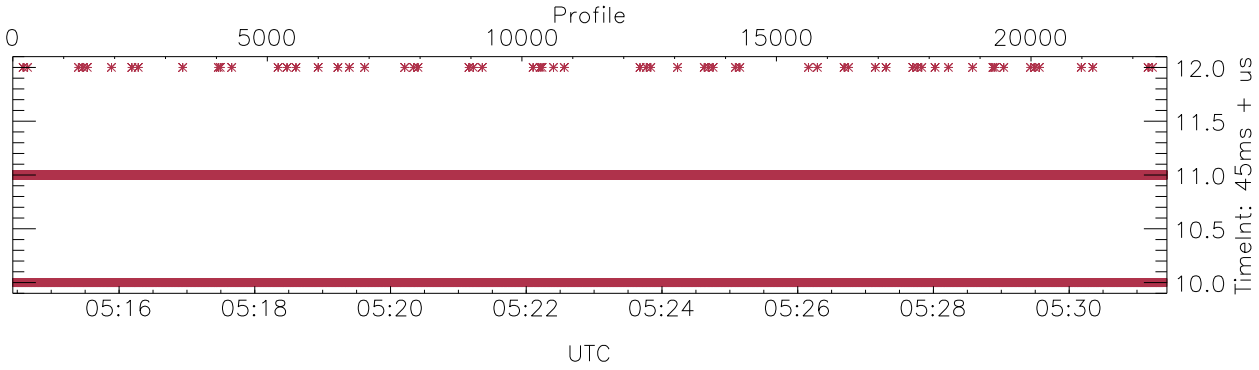
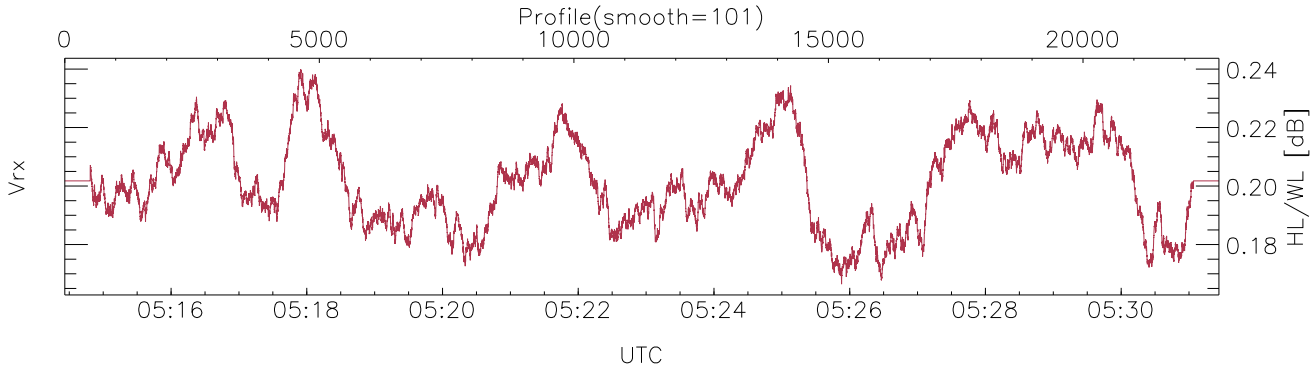
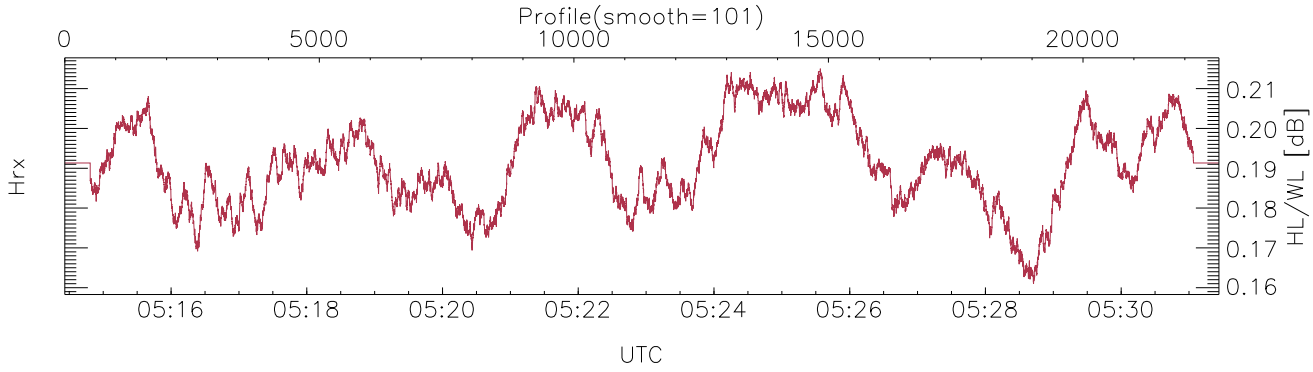


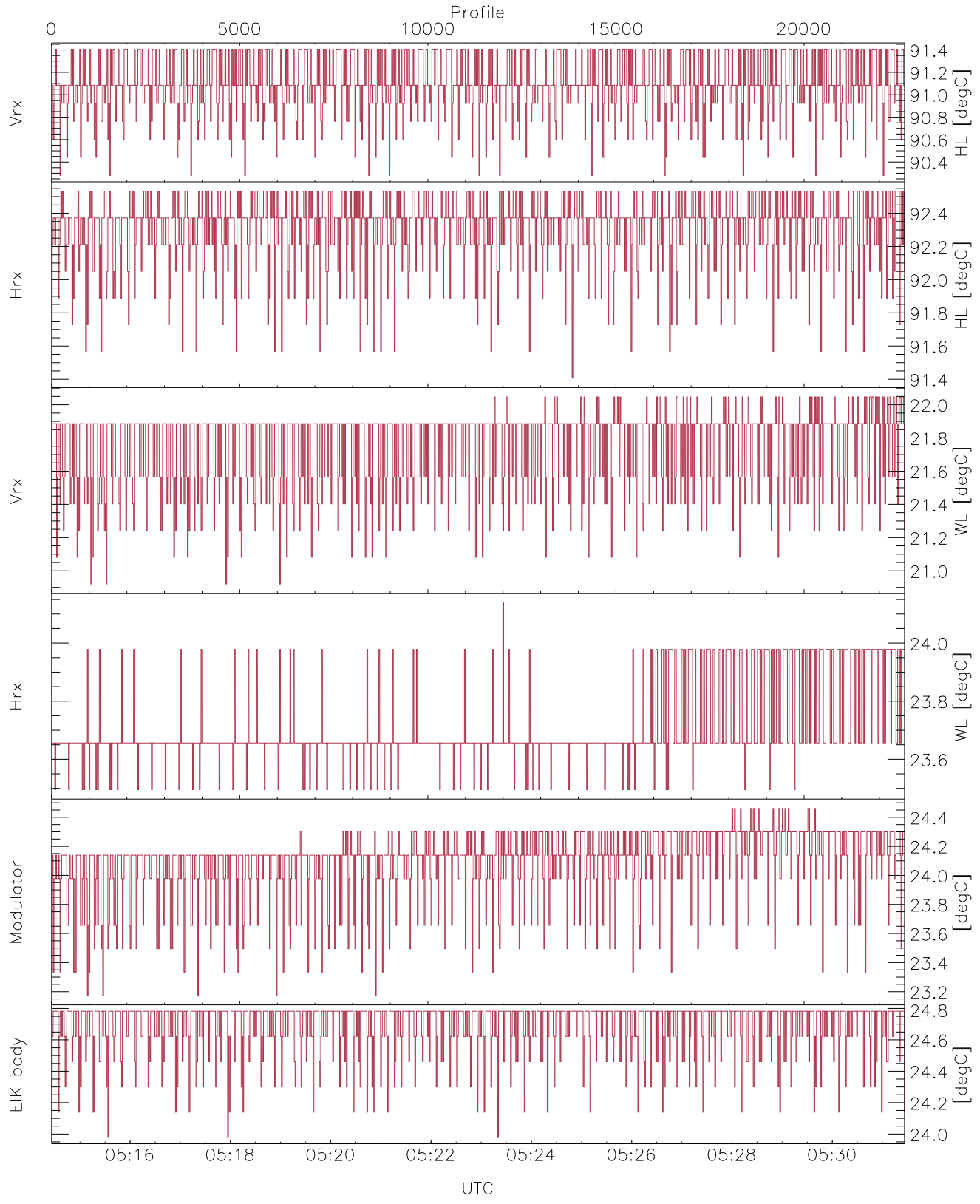



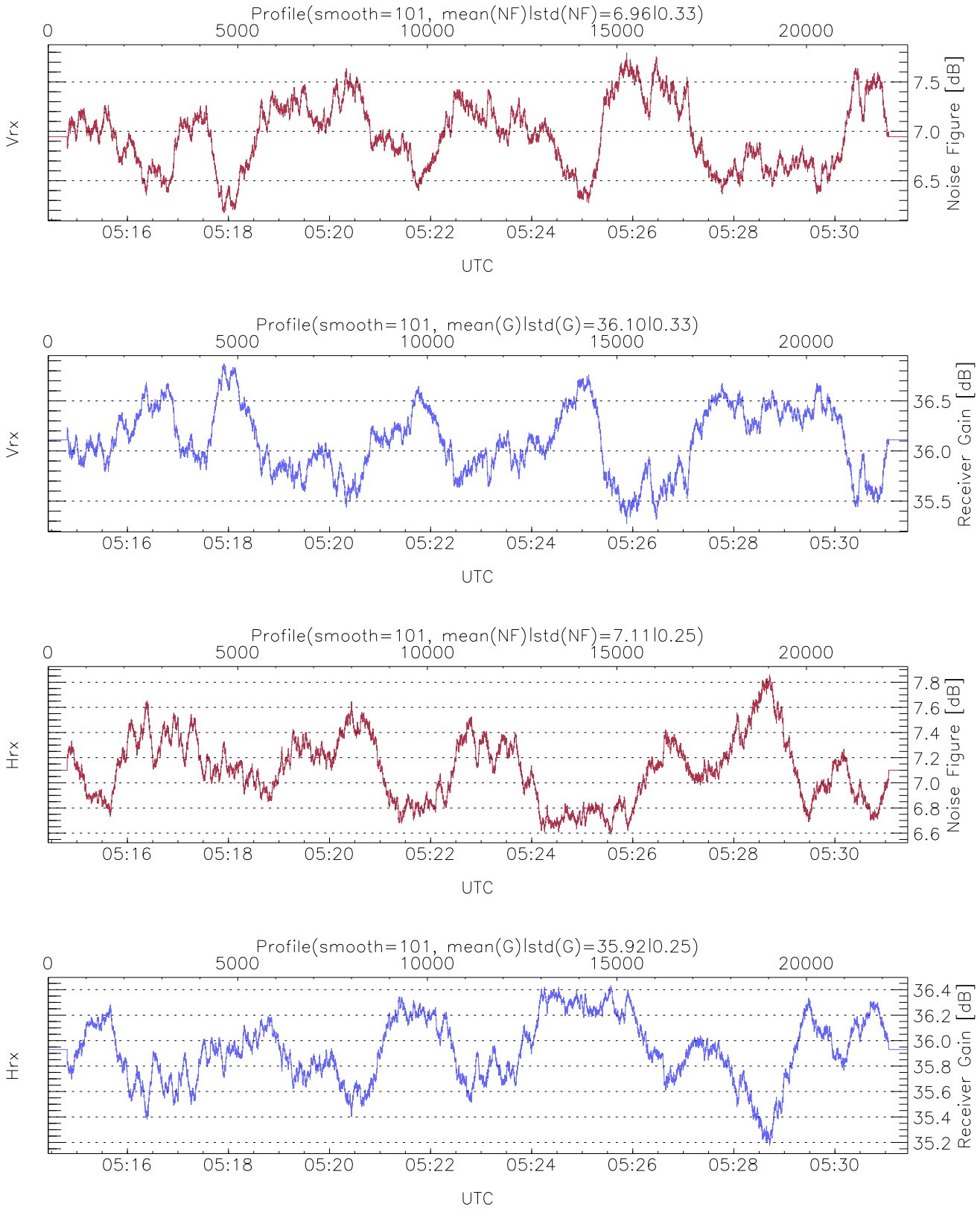

WCR3 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

UTC: 05:14:26-05:31:26, TimeCor: 0.00s, Dur: 1020.45s
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): 22672/22672, 0-22671/05:14:26-05:31:26
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



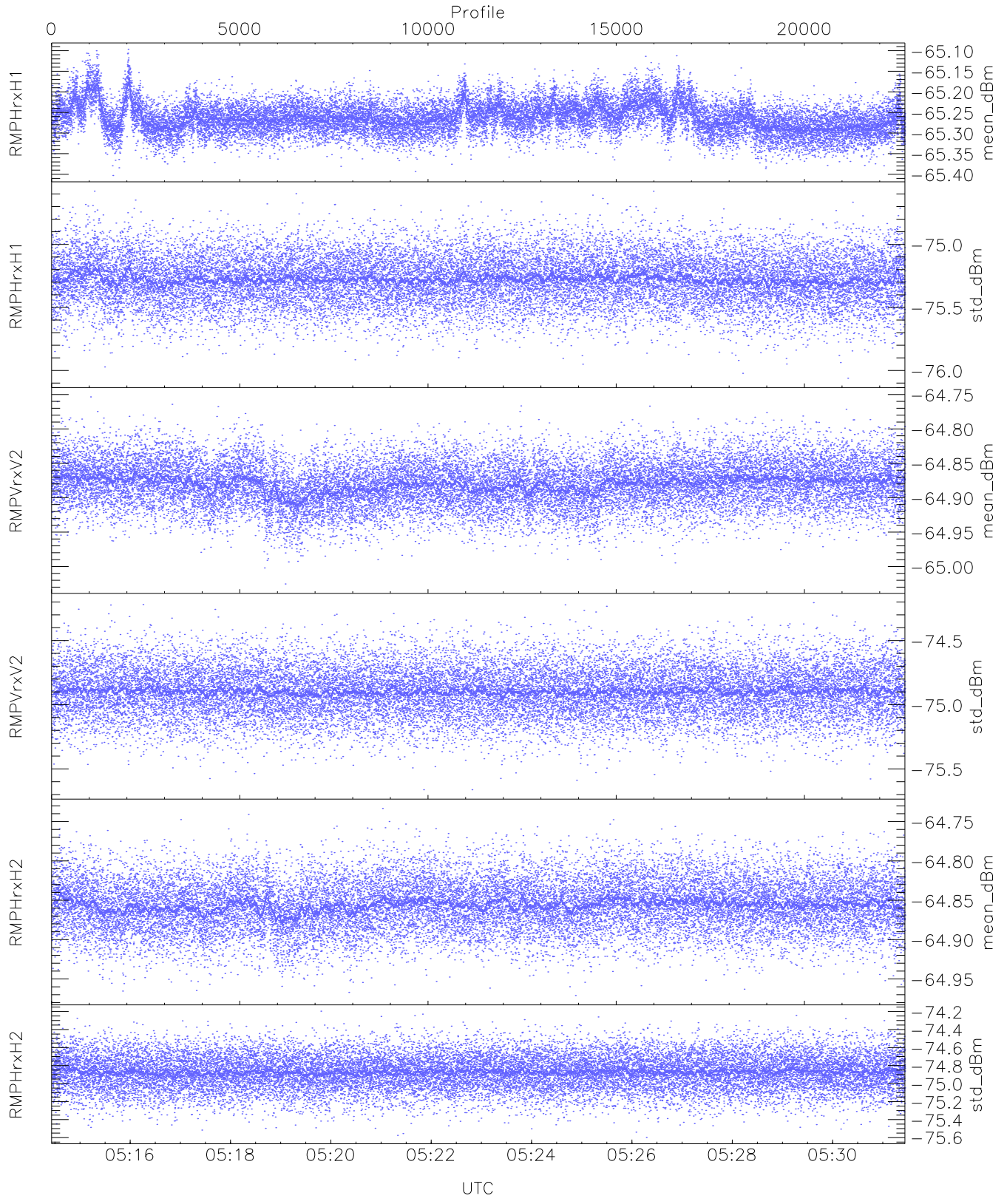

WCR3 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

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



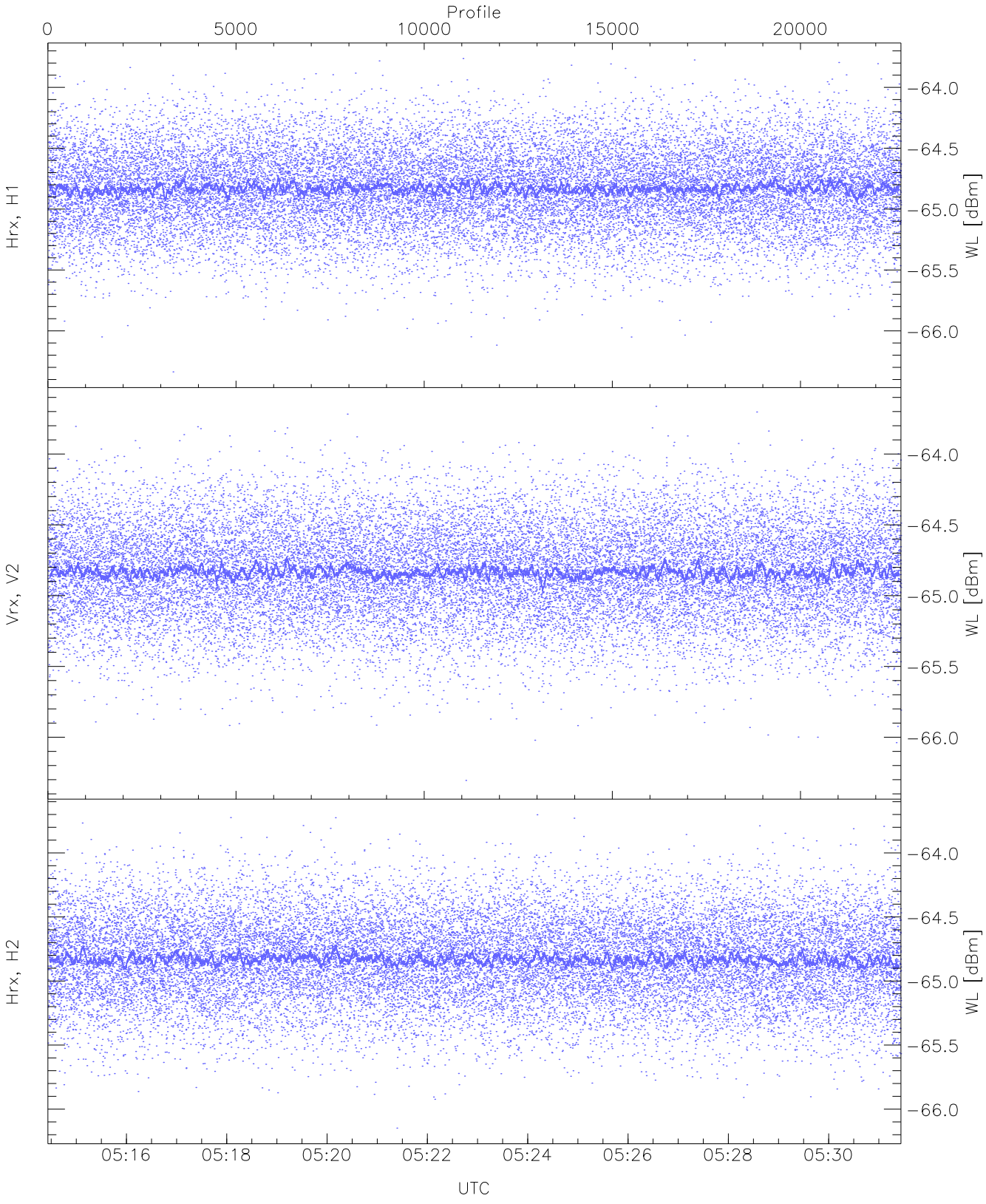

WCR3 CPP Receivers Gain and Noise Figure

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



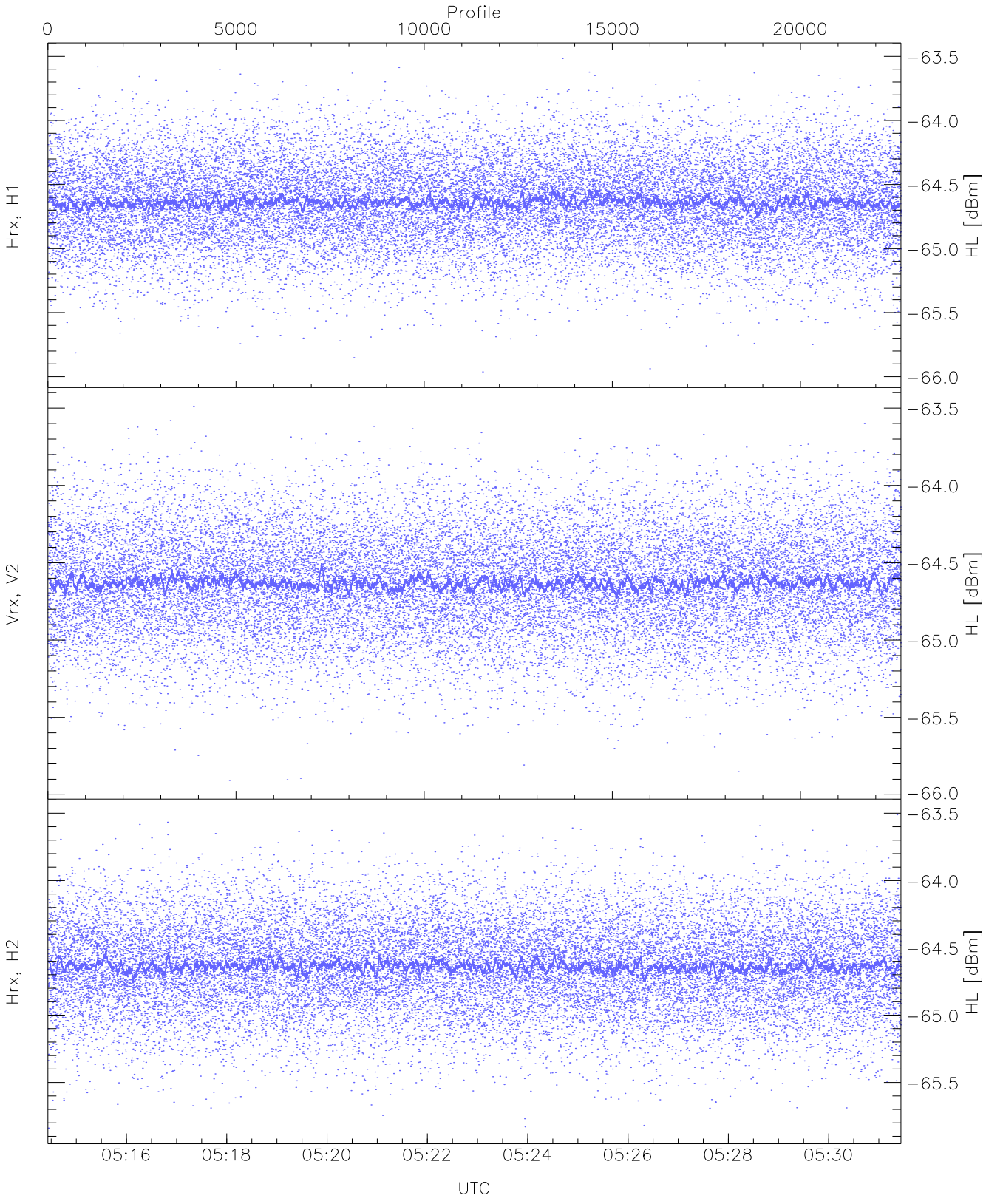

WCR3 CPP RM pulses(Tx is OFF) received power: Mean, StDev(all gates)

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| RMPHrxH1(mean_dBm) | -65.40 | -65.10 | -65.26 | -65.26 | -85.86 |
| RMPHrxH1(std_dBm) | -76.06 | -74.58 | -75.28 | -75.28 | -89.03 |
| RMPVrxV2(mean_dBm) | -65.03 | -64.75 | -64.88 | -64.88 | -86.30 |
| RMPVrxV2(std_dBm) | -75.66 | -74.21 | -74.90 | -74.90 | -88.69 |
| RMPHrxH2(mean_dBm) | -64.97 | -64.73 | -64.86 | -64.86 | -86.41 |
| RMPHrxH2(std_dBm) | -75.60 | -74.20 | -74.87 | -74.87 | -88.65 |



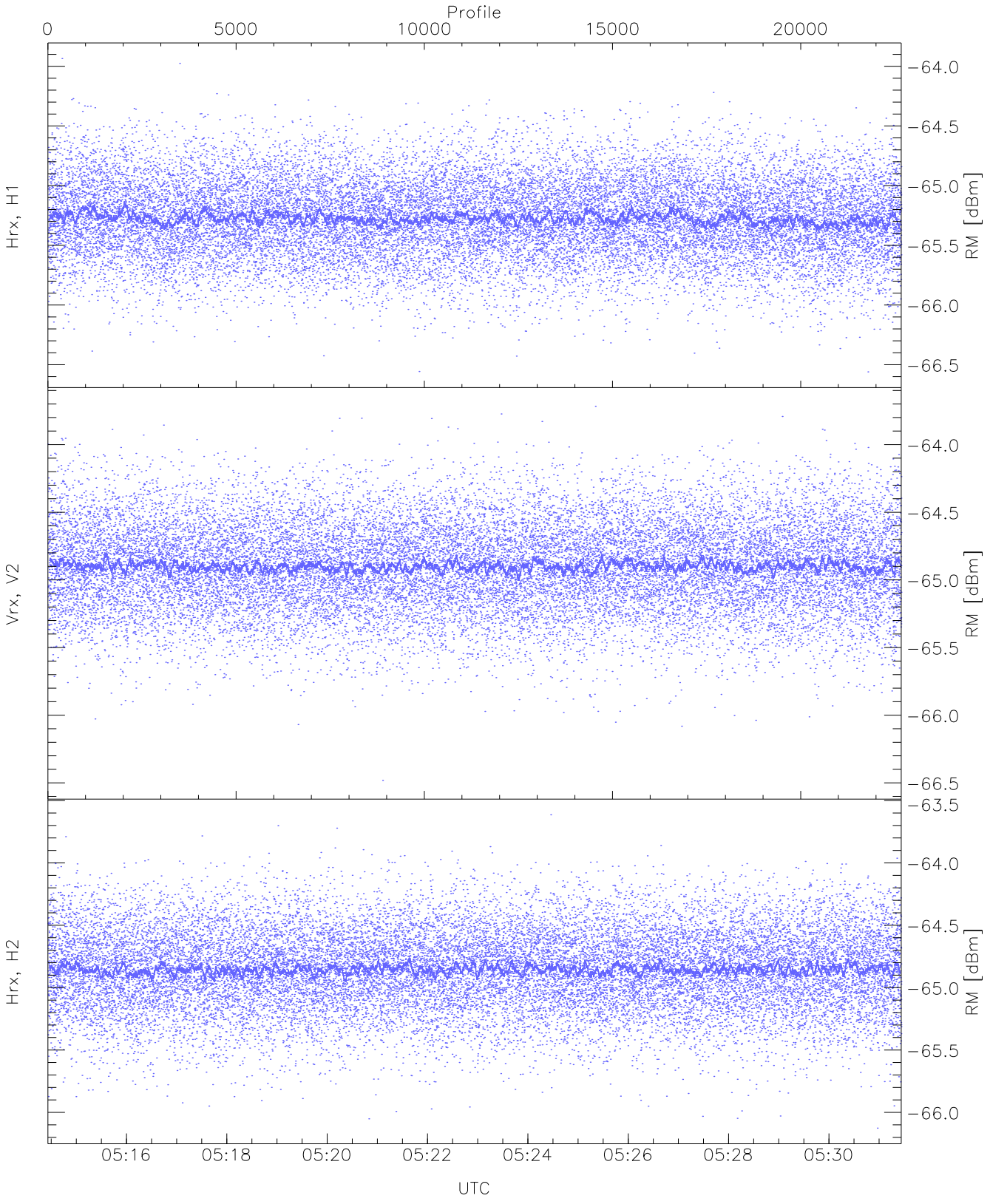

WCR3 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(WL [dBm]) | -66.34 | -63.76 | -64.82 | -64.83 | -76.34 |
| Vrx, V2(WL [dBm]) | -66.30 | -63.66 | -64.83 | -64.83 | -76.35 |
| Hrx, H2(WL [dBm]) | -66.15 | -63.70 | -64.82 | -64.83 | -76.31 |



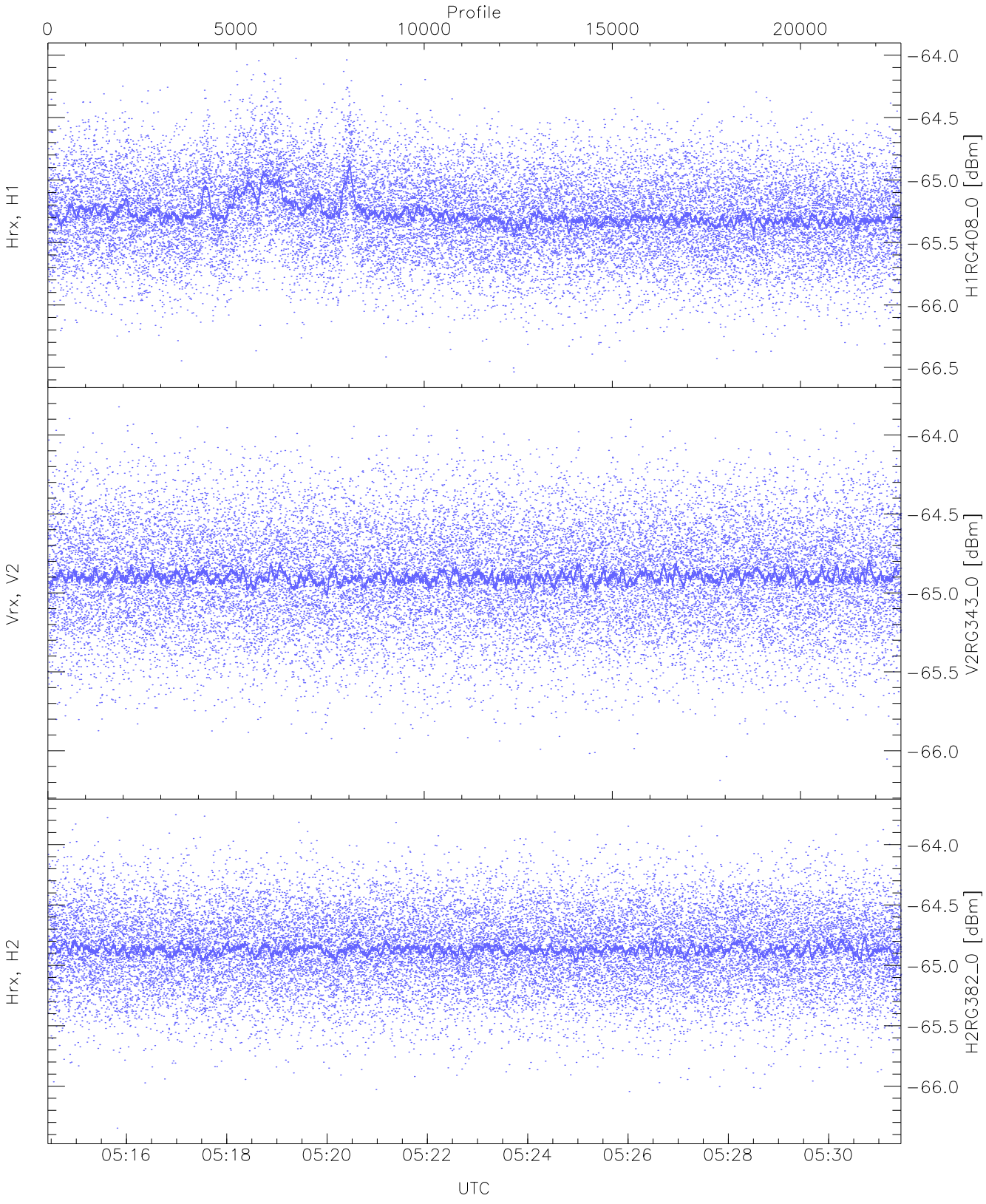

WCR3 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(HL [dBm]) | -65.96 | -63.52 | -64.63 | -64.64 | -76.17 |
| Vrx, V2(HL [dBm]) | -65.91 | -63.49 | -64.62 | -64.63 | -76.17 |
| Hrx, H2(HL [dBm]) | -65.84 | -63.51 | -64.63 | -64.64 | -76.13 |



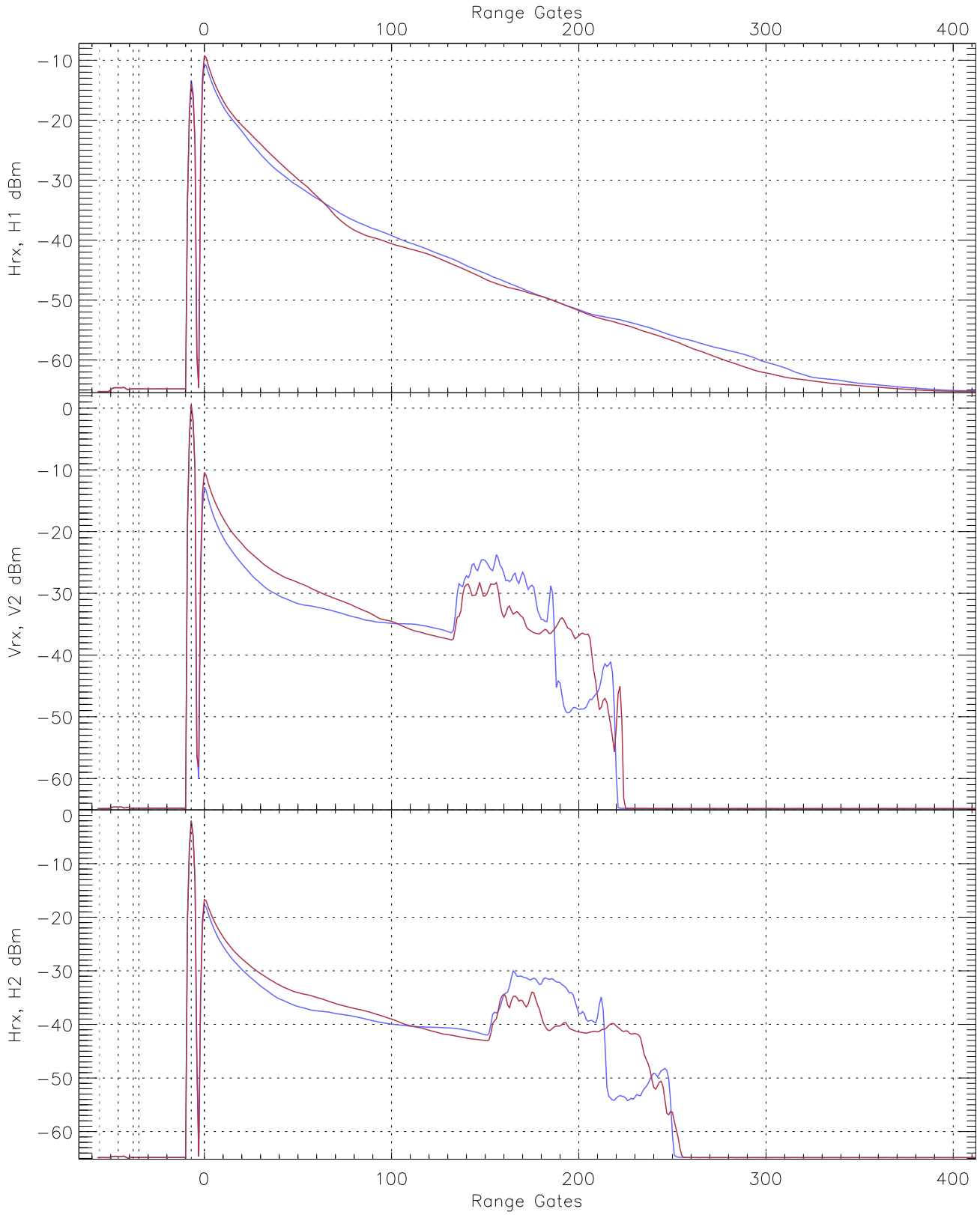

WCR3 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(RM [dBm]) | -66.56 | -63.94 | -65.27 | -65.28 | -76.72 |
| Vrx, V2(RM [dBm]) | -66.48 | -63.72 | -64.89 | -64.90 | -76.38 |
| Hrx, H2(RM [dBm]) | -66.13 | -63.61 | -64.85 | -64.85 | -76.38 |

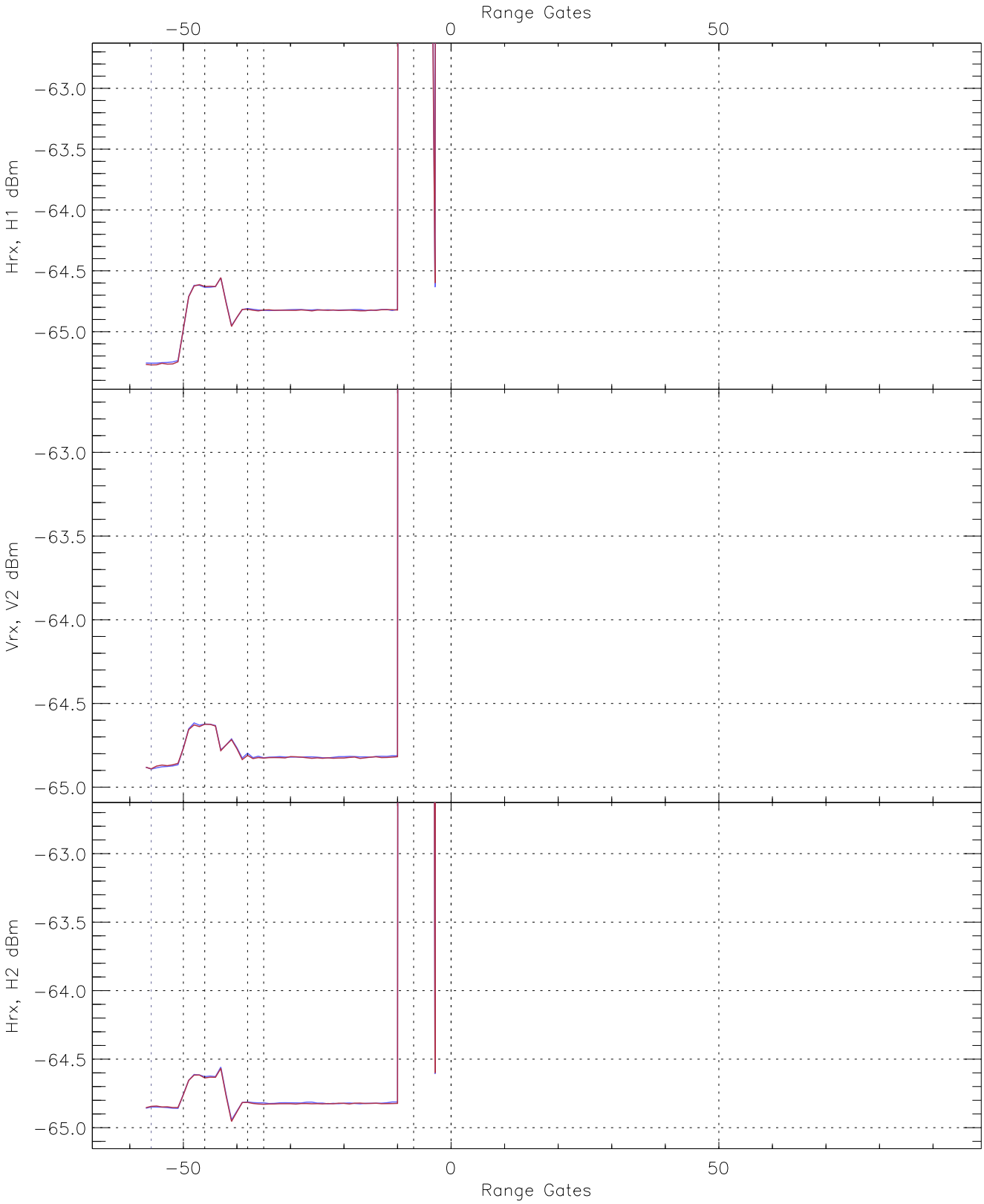



WCR3 CPP "Best" estimate Receivers Noise Power

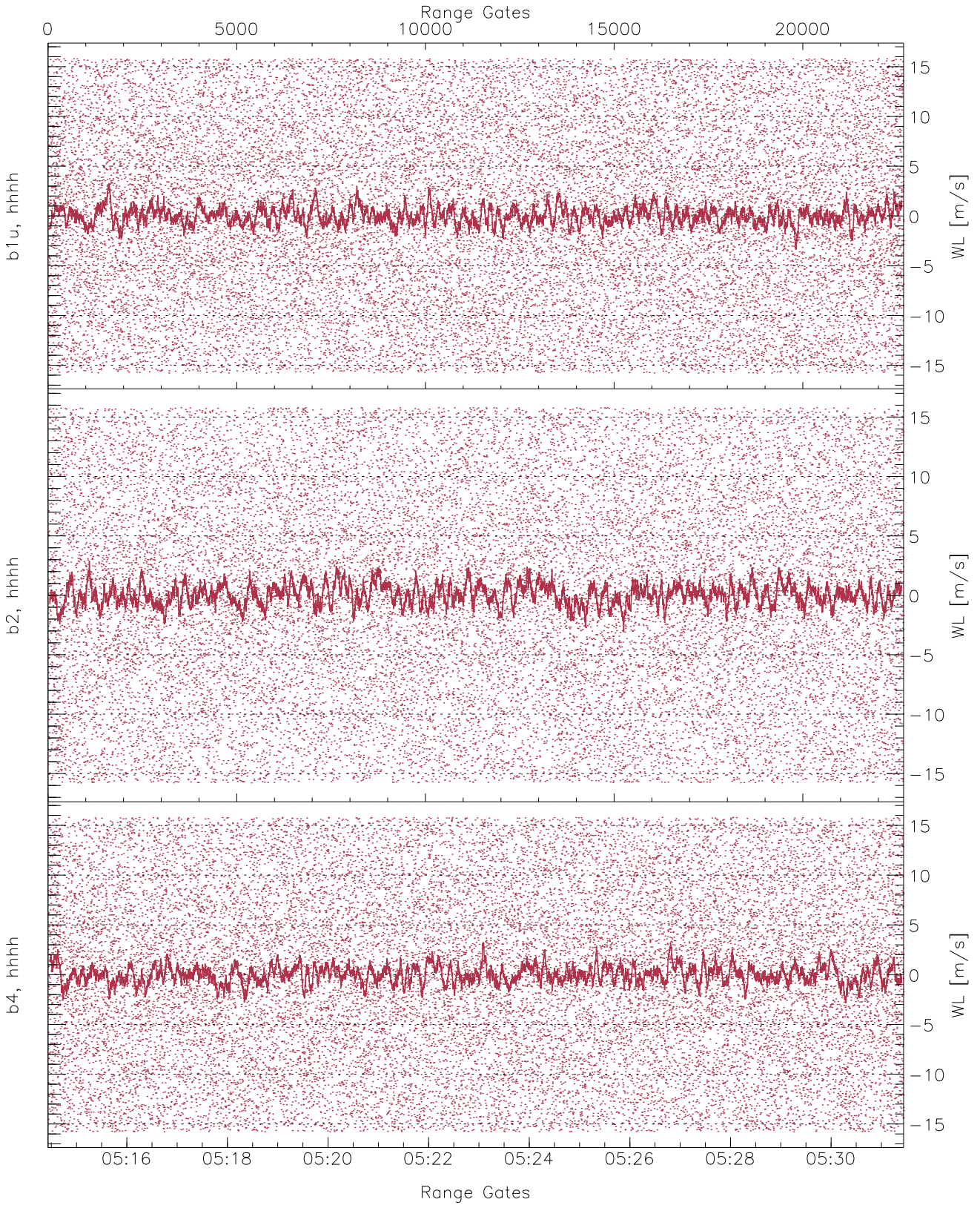
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| H1RG408_0 [dBm] | -66.54 | -64.03 | -65.27 | -65.28 | -76.59 |
| V2RG343_0 [dBm] | -66.19 | -63.82 | -64.89 | -64.90 | -76.38 |
| H2RG382_0 [dBm] | -66.35 | -63.75 | -64.86 | -64.87 | -76.34 |



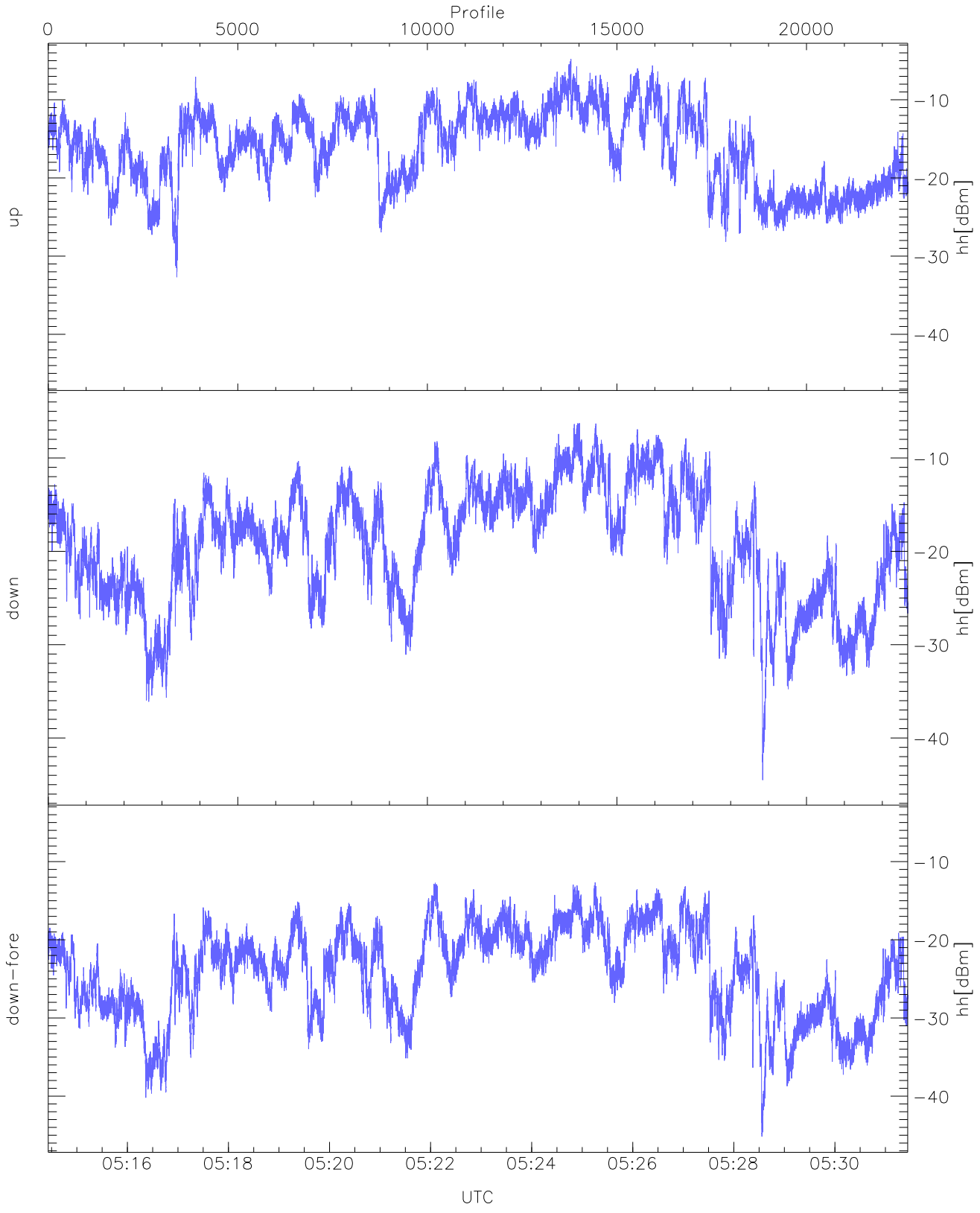

WCR3 CPP Averaged Received power for all recorded gates
blue: 051426-052256, 11337 profiles averaged
red: 052256-053126, 11336 profiles averaged




WCR3 CPP Averaged Received power for the negative gates and up to 100 gate
blue: 051426-052256, 11337 profiles averaged
red: 052256-053126, 11336 profiles averaged

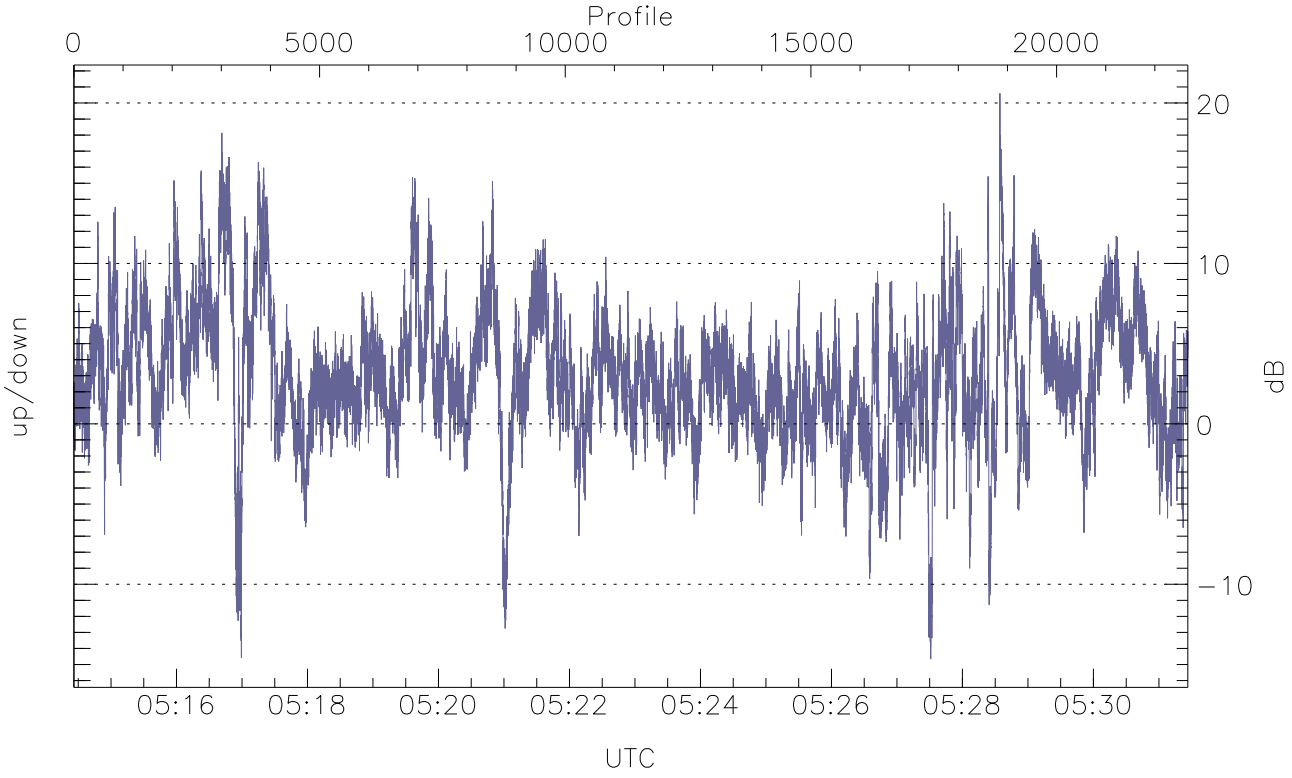


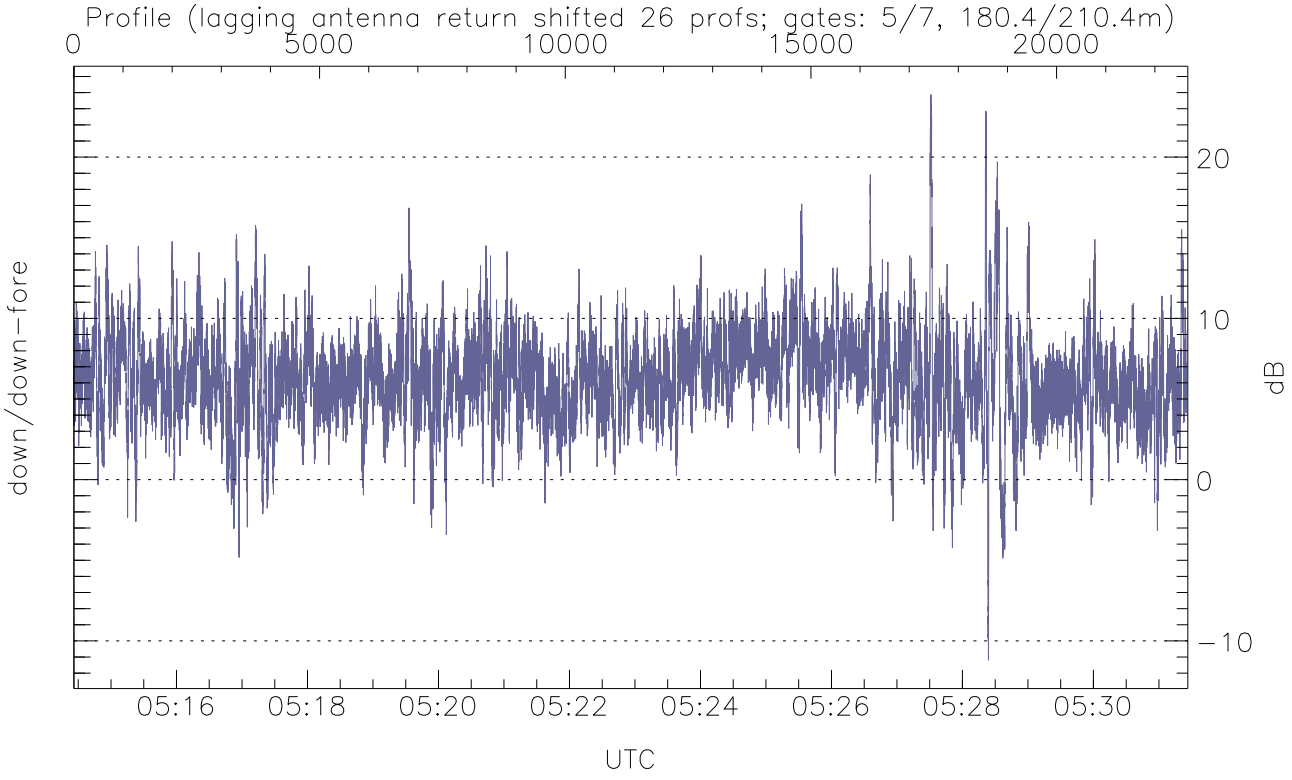

WCR3 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




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

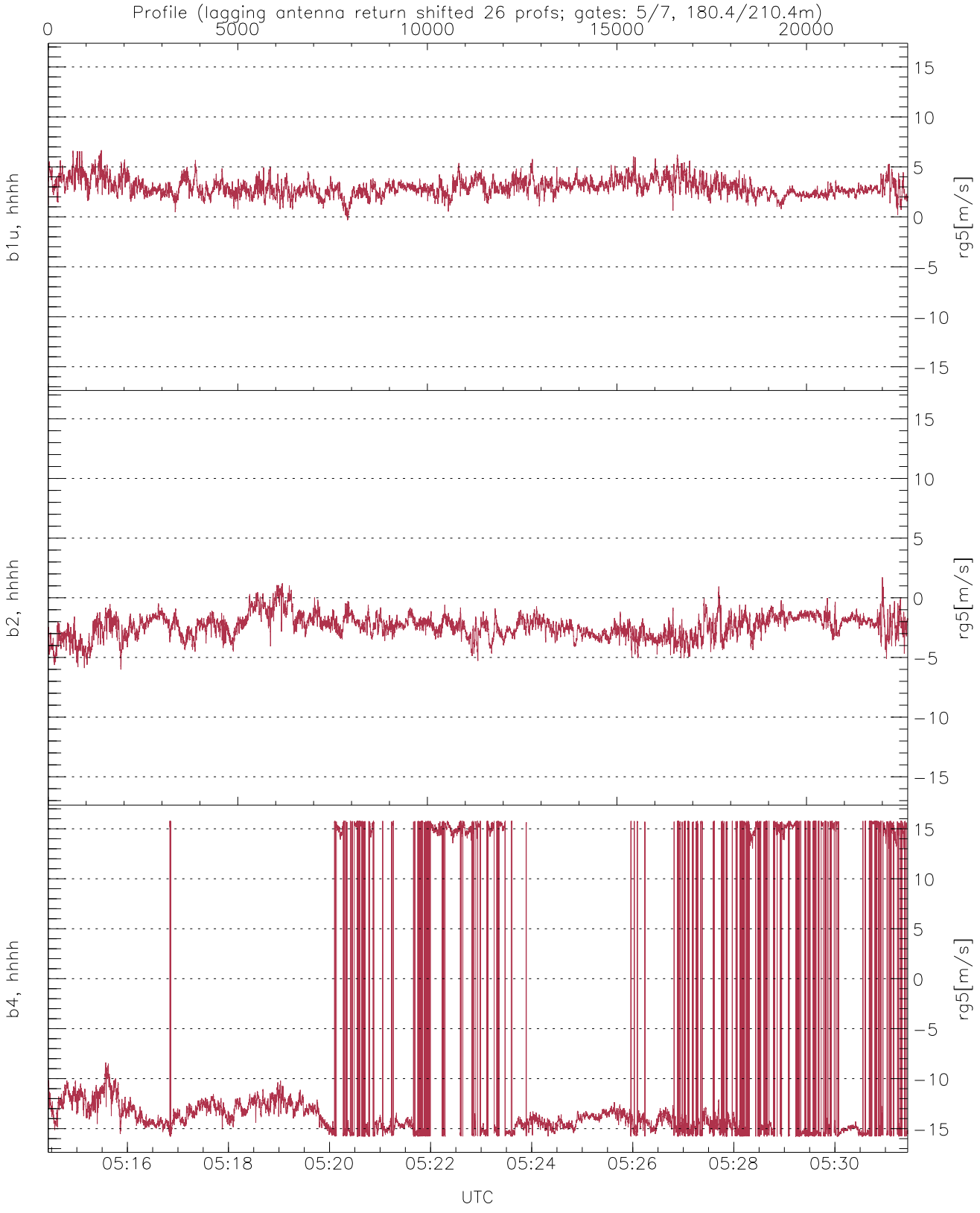
| | Min | Max | Mean |
|---|---|---|---|
| up(hh[dBm]) | -32.69 | -4.79 | -13.94 |
| down(hh[dBm]) | -44.50 | -6.26 | -15.87 |
| down-fore(hh[dBm]) | -45.17 | -12.66 | -21.22 |




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

| | Min | Max | Mean |
|---|---|---|---|
| up/down(dB) | -14.66 | 20.60 | 3.05 |
| down/down-fore(dB) | -11.20 | 23.88 | 6.35 |




WCR3 CPP Doppler Velocity Products at 180.4 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b1u, hhhh(rg5[m/s]) | -0.32 | 6.67 | 2.96 | 0.86 |
| b2, hhhh(rg5[m/s]) | -6.02 | 1.72 | -2.37 | 0.97 |
| b4, hhhh(rg5[m/s]) | -15.79 | 15.79 | -8.25 | 11.66 |