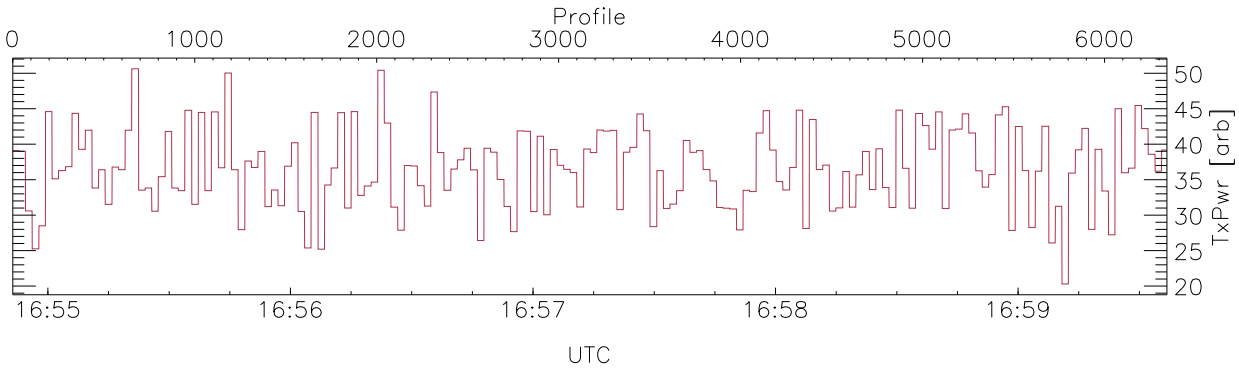
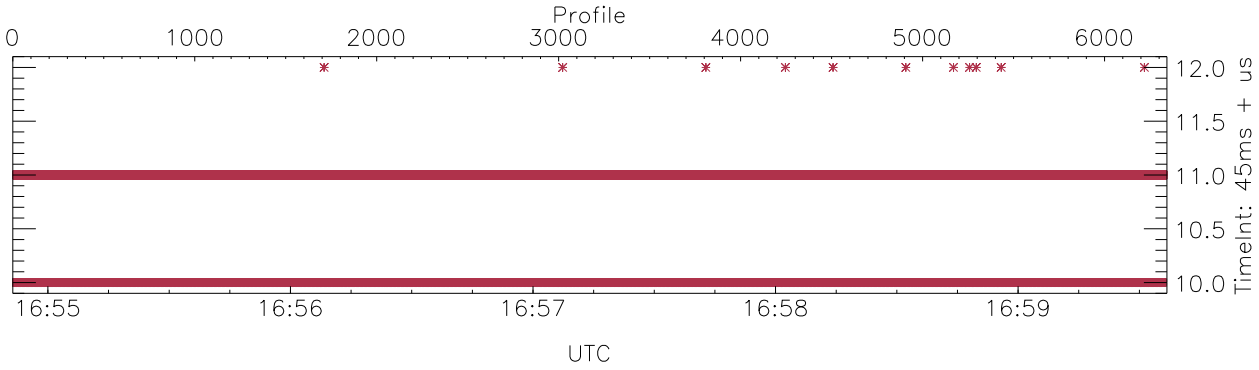
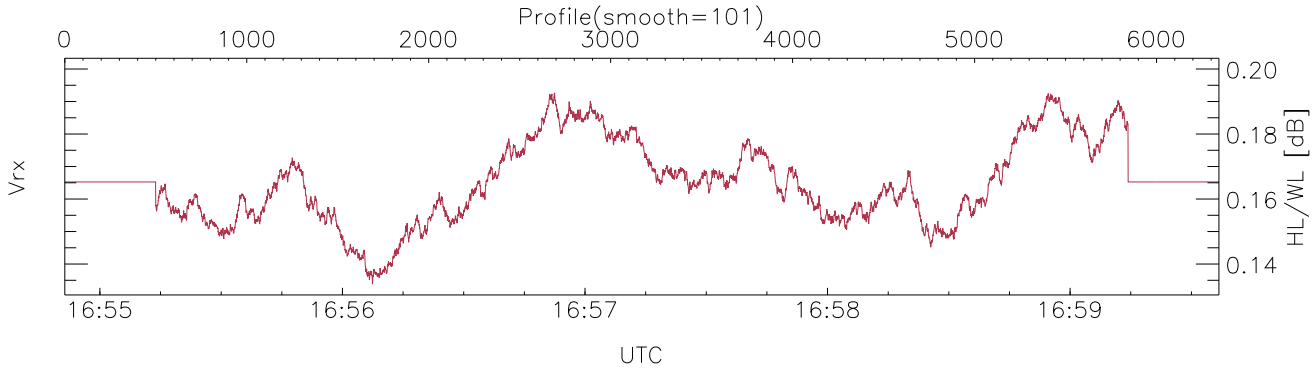
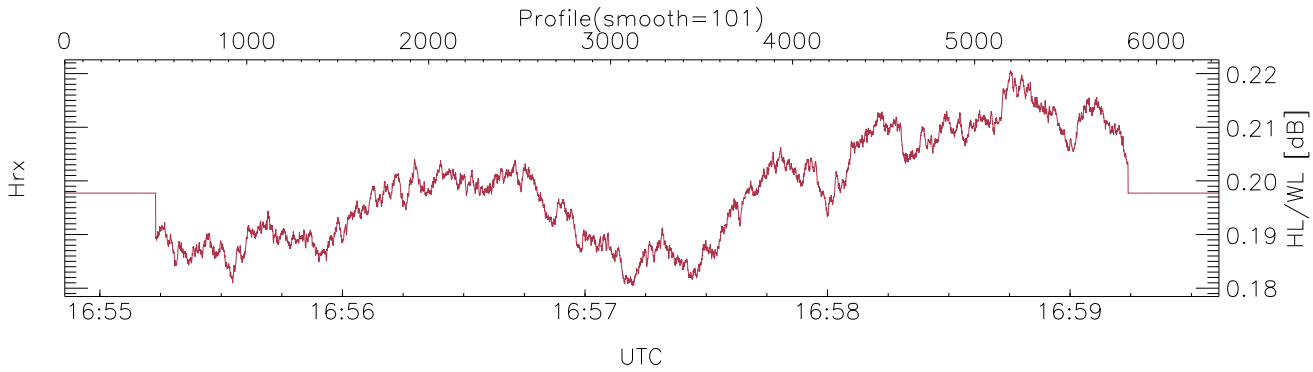


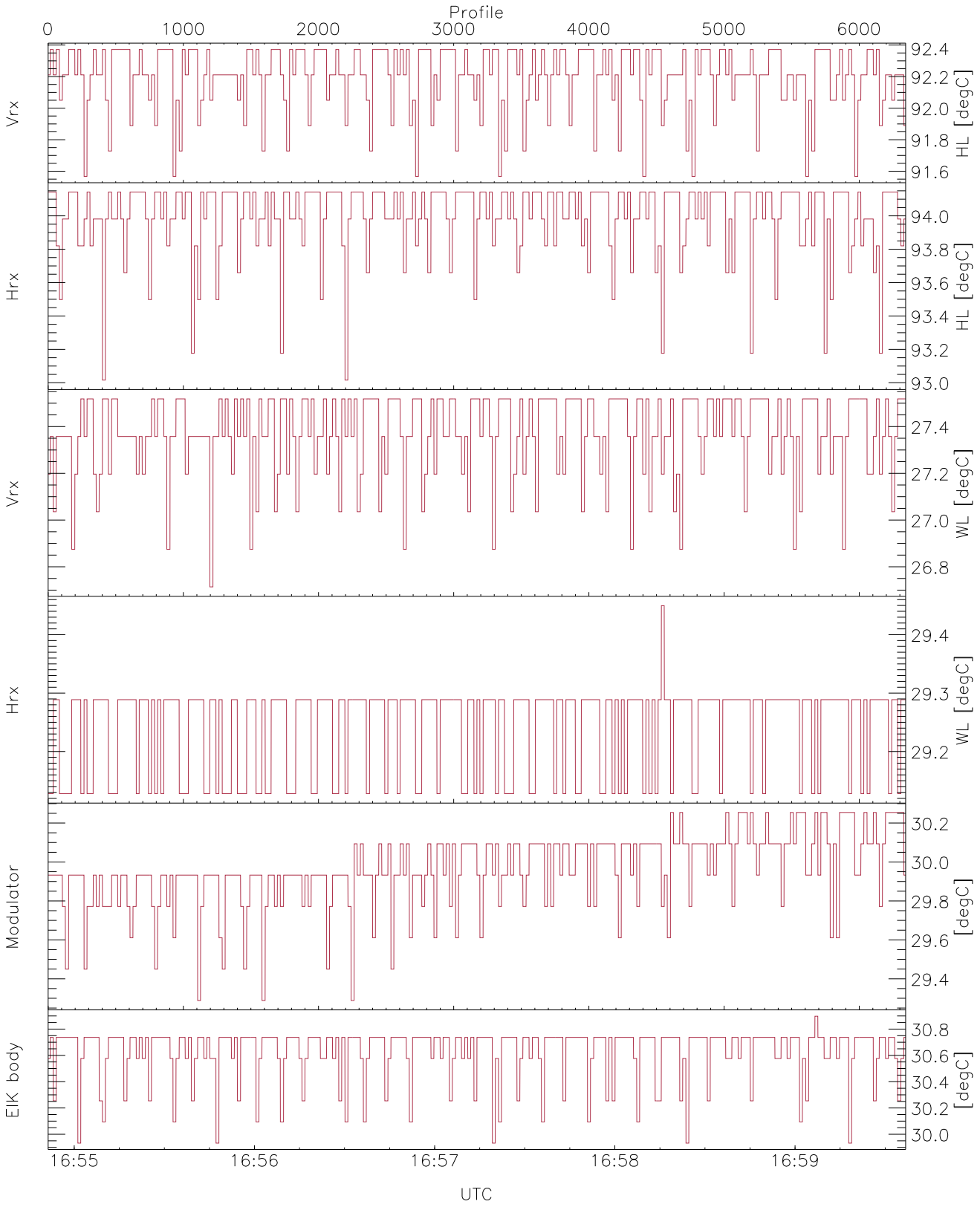



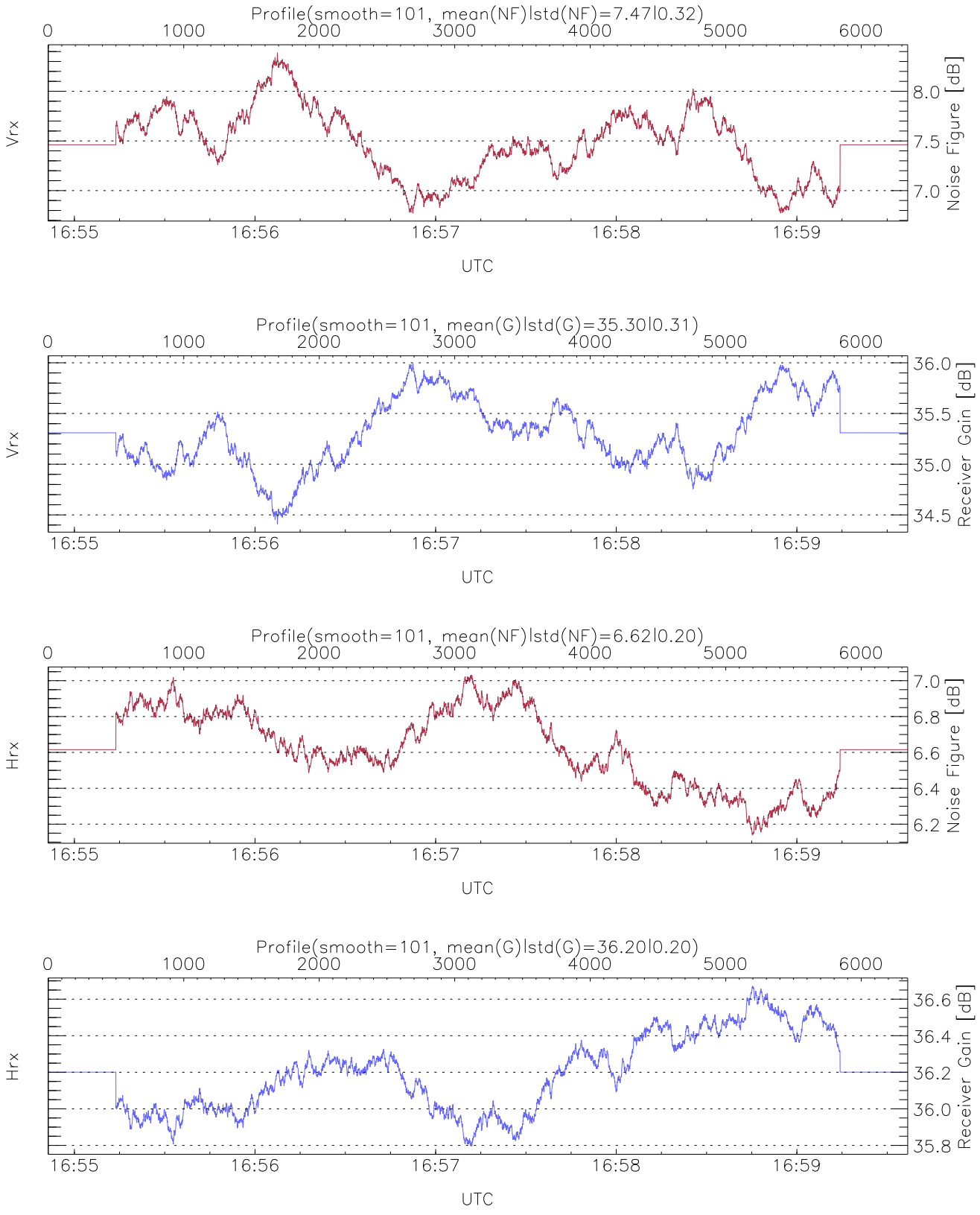

WCR3 CPP Tx Power Monitor, Profile Time Interval, HotLoad/WarmLoad Ratios

UTC: 16:54:51-16:59:37, TimeCor: 0.00s, Dur: 285.51s
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): 6344/6344, 0-6343/16:54:51-16:59:37
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



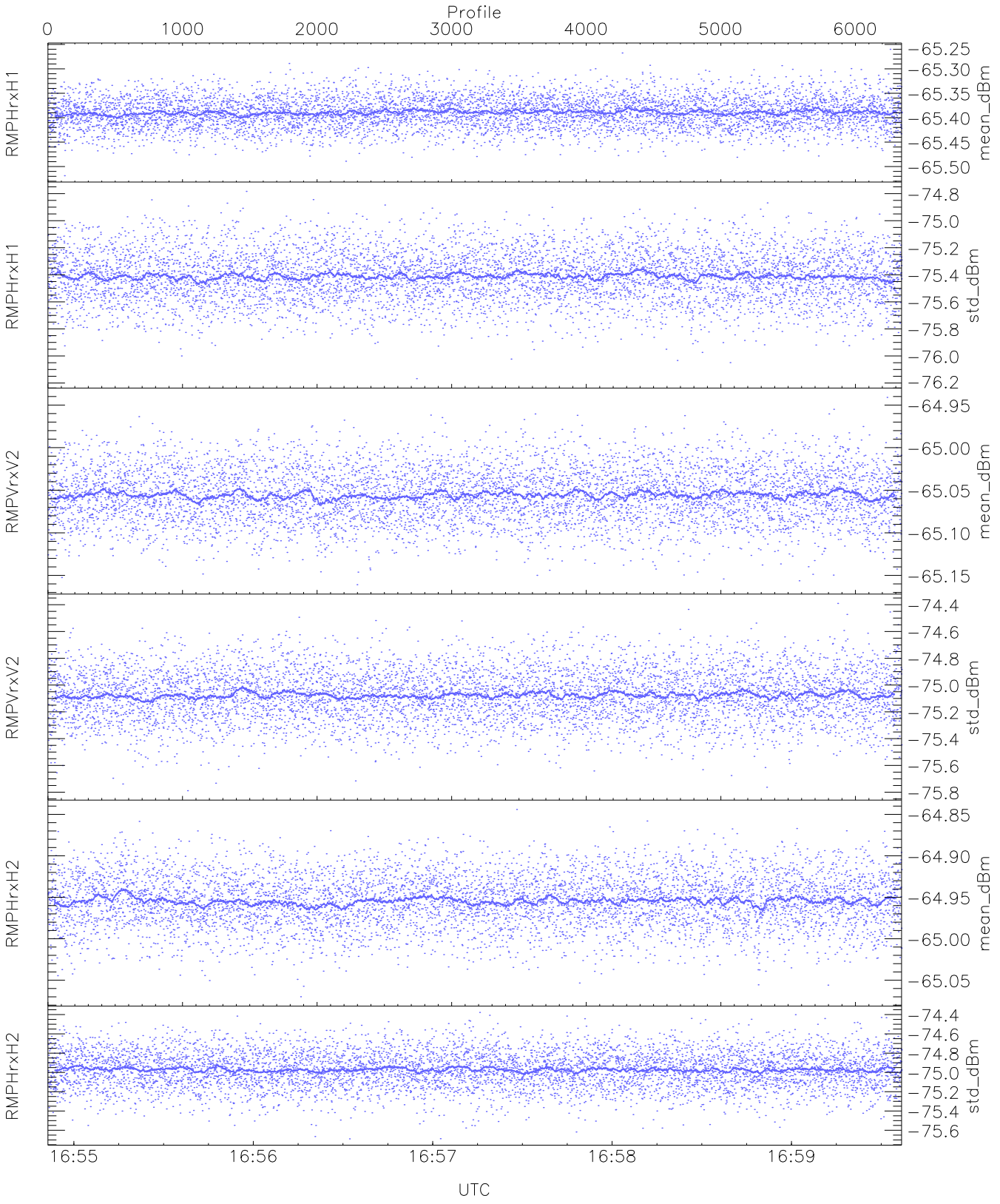

WCR3 CPP Temperature Monitor: Hot Loads, Warm Loads, Modulator, and EIK

mintempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 91,93,26,29,29,29
maxtempC(VrxHL,HrxHL,VrxWL,HrxWL,Mod,EIK): 92,94,27,29,30,30
LOalarm(20,240,2817,14861 MHz): 0,0,46,0
EIK/Modulator Faults: None



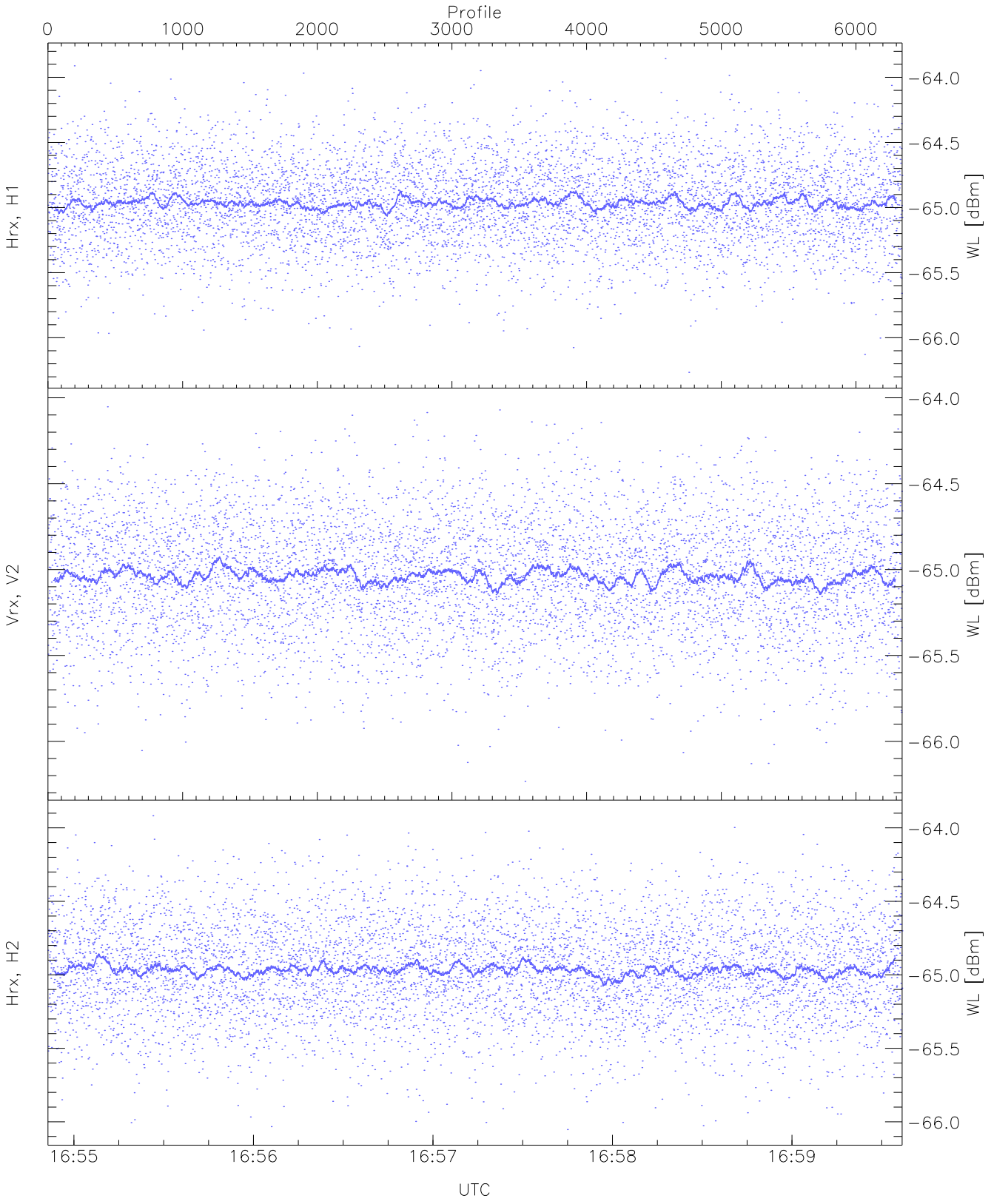

WCR3 CPP Receivers Gain and Noise Figure

Rx Saturation: 4 pixs, 1 gates, 4 profs, 1 prod(s)



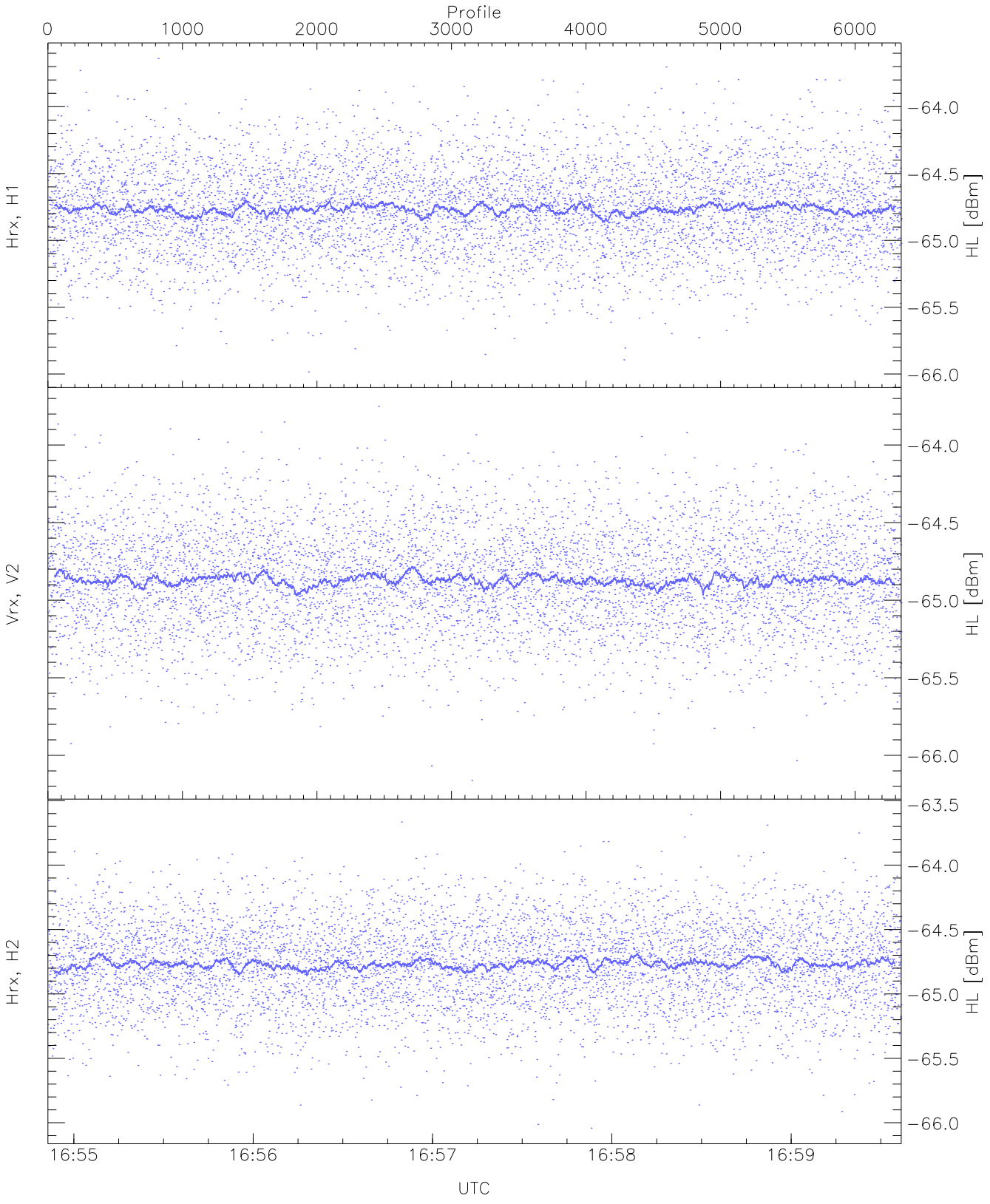

WCR3 CPP RM pulses(Tx is OFF) received power: Mean, StDev(all gates)

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| RMPHrxH1(mean_dBm) | -65.52 | -65.26 | -65.39 | -65.39 | -86.95 |
| RMPHrxH1(std_dBm) | -76.17 | -74.78 | -75.41 | -75.41 | -89.25 |
| RMPVrxV2(mean_dBm) | -65.16 | -64.94 | -65.06 | -65.06 | -86.61 |
| RMPVrxV2(std_dBm) | -75.79 | -74.39 | -75.07 | -75.07 | -88.83 |
| RMPHrxH2(mean_dBm) | -65.07 | -64.84 | -64.95 | -64.95 | -86.53 |
| RMPHrxH2(std_dBm) | -75.69 | -74.38 | -74.97 | -74.97 | -88.75 |



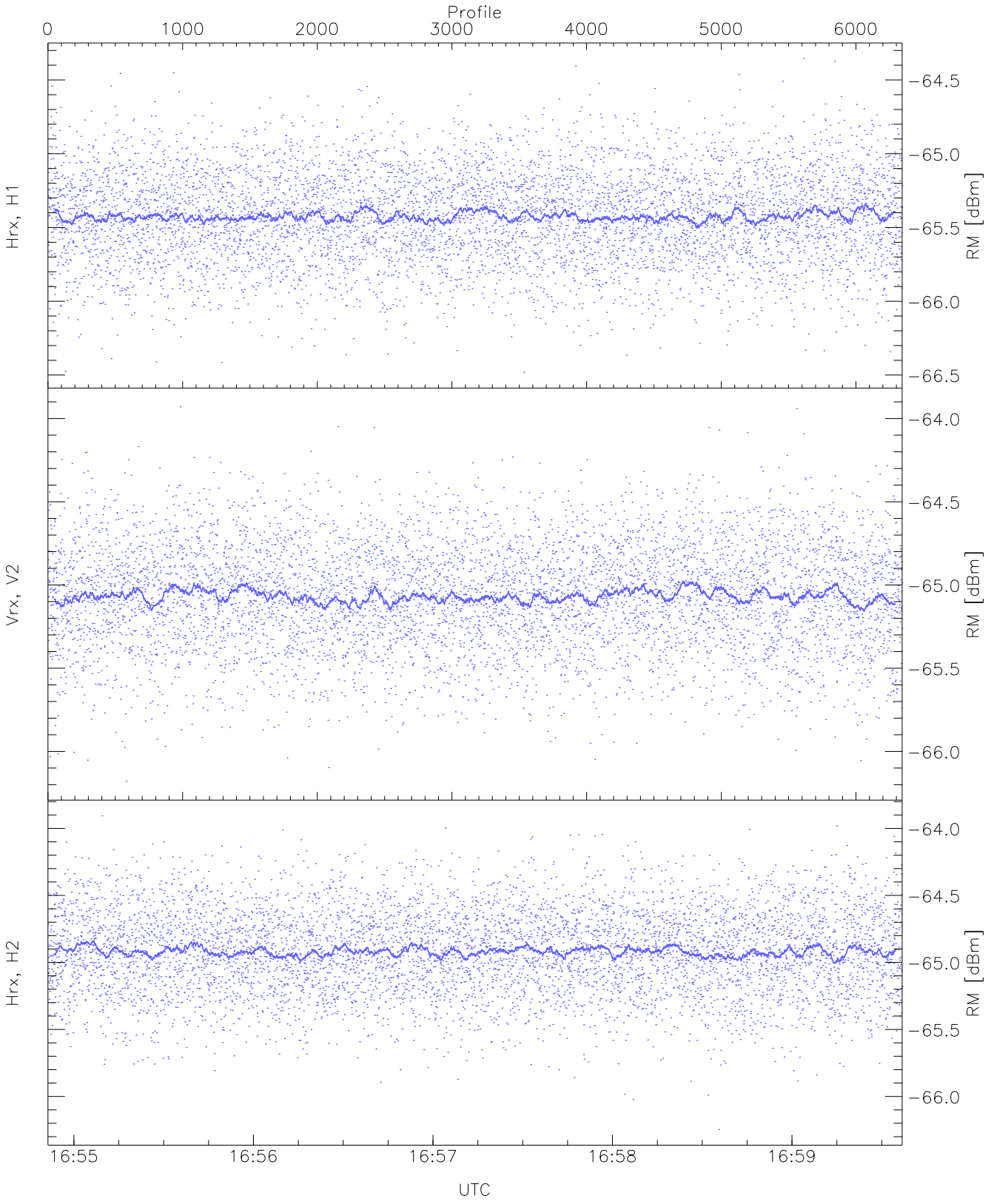

WCR3 CPP Receivers Noise Power from the Warm Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(WL [dBm]) | -66.27 | -63.86 | -64.96 | -64.96 | -76.47 |
| Vrx, V2(WL [dBm]) | -66.23 | -64.05 | -65.03 | -65.03 | -76.49 |
| Hrx, H2(WL [dBm]) | -66.05 | -63.92 | -64.96 | -64.97 | -76.44 |



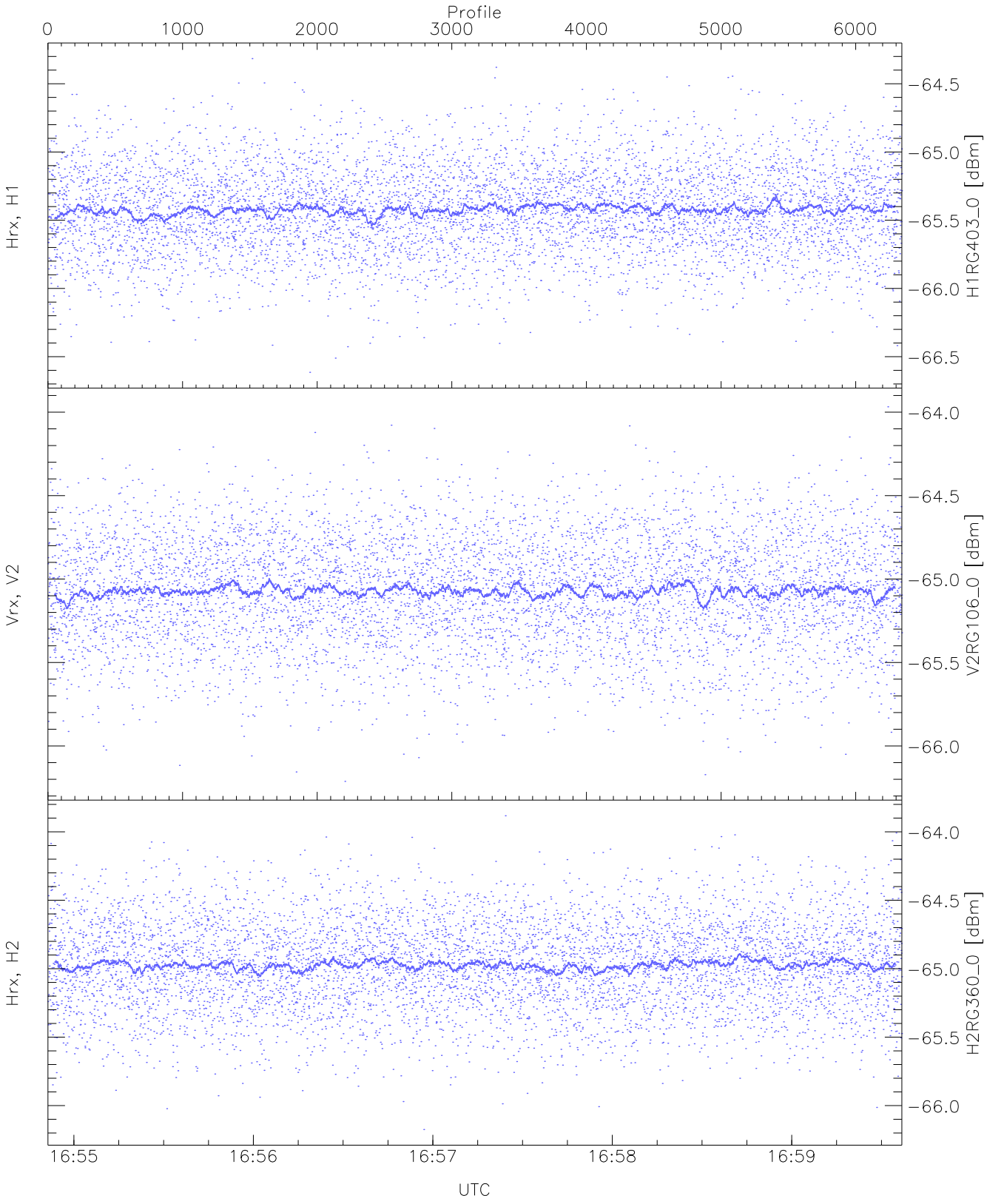

WCR3 CPP Receivers Noise Power from the Hot Loads Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(HL [dBm]) | -65.98 | -63.64 | -64.76 | -64.77 | -76.19 |
| Vrx, V2(HL [dBm]) | -66.16 | -63.75 | -64.86 | -64.87 | -76.40 |
| Hrx, H2(HL [dBm]) | -66.04 | -63.61 | -64.76 | -64.77 | -76.26 |



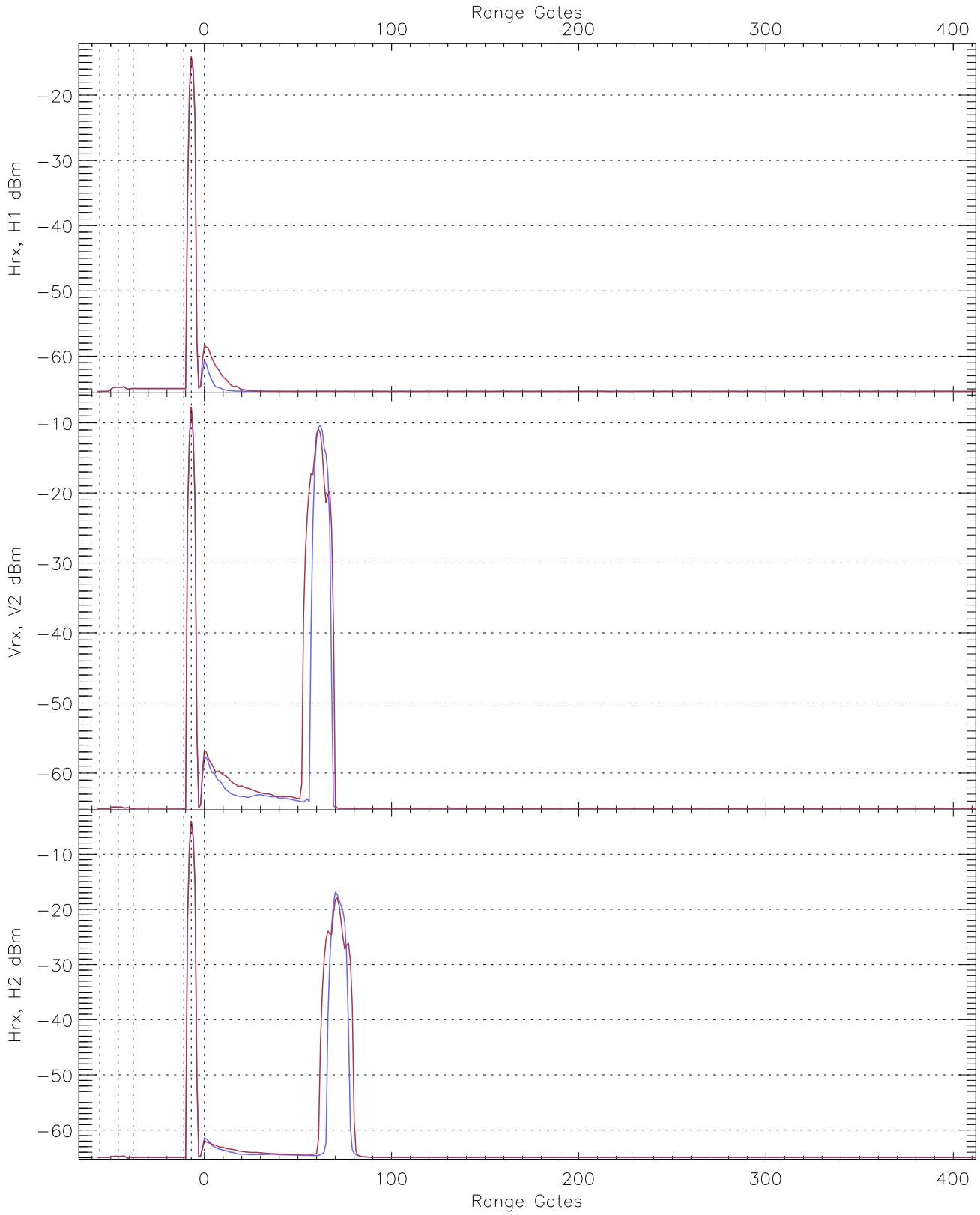

WCR3 CPP Receivers Noise Power from the Sky/RM Measurements

| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| Hrx, H1(RM [dBm]) | -66.48 | -64.36 | -65.42 | -65.42 | -76.99 |
| Vrx, V2(RM [dBm]) | -66.18 | -63.93 | -65.06 | -65.06 | -76.59 |
| Hrx, H2(RM [dBm]) | -66.25 | -63.91 | -64.91 | -64.92 | -76.45 |

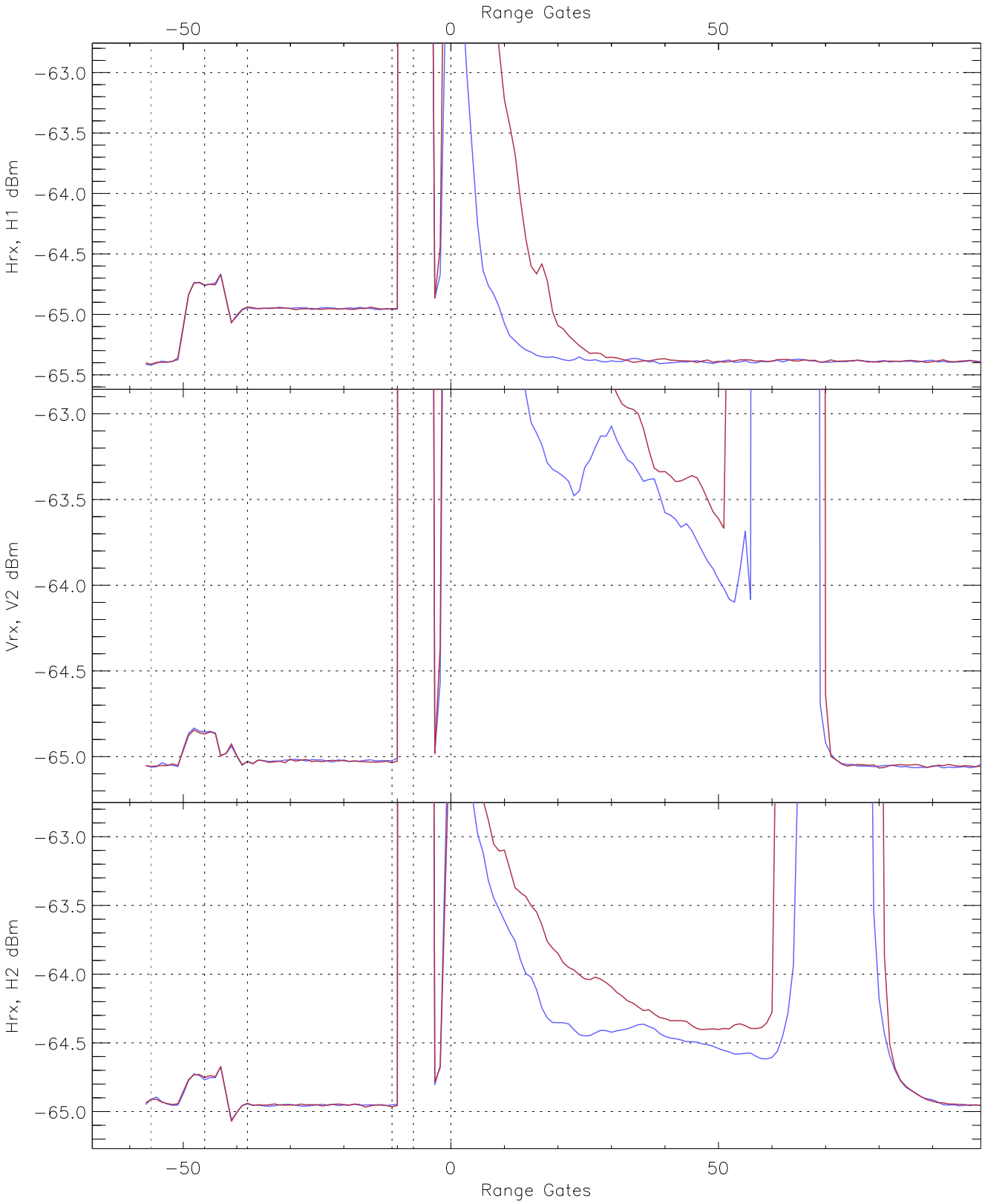



WCR3 CPP "Best" estimate Receivers Noise Power

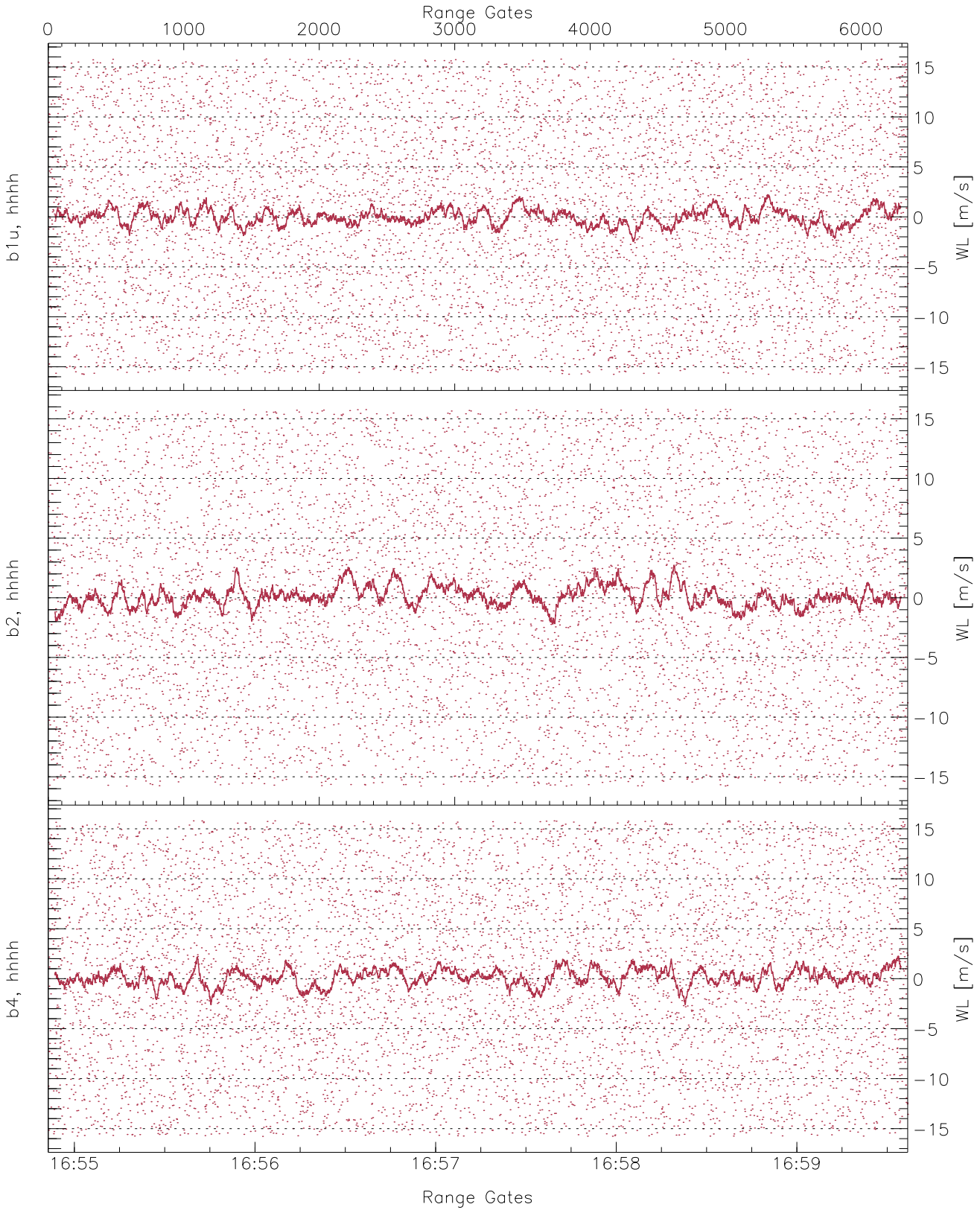
| | Min | Max | Mean | Median | StDev |
|---|---|---|---|---|---|
| H1RG403_0 [dBm] | -66.61 | -64.32 | -65.42 | -65.42 | -76.97 |
| V2RG106_0 [dBm] | -66.21 | -63.97 | -65.07 | -65.07 | -76.59 |
| H2RG360_0 [dBm] | -66.17 | -63.88 | -64.97 | -64.97 | -76.46 |



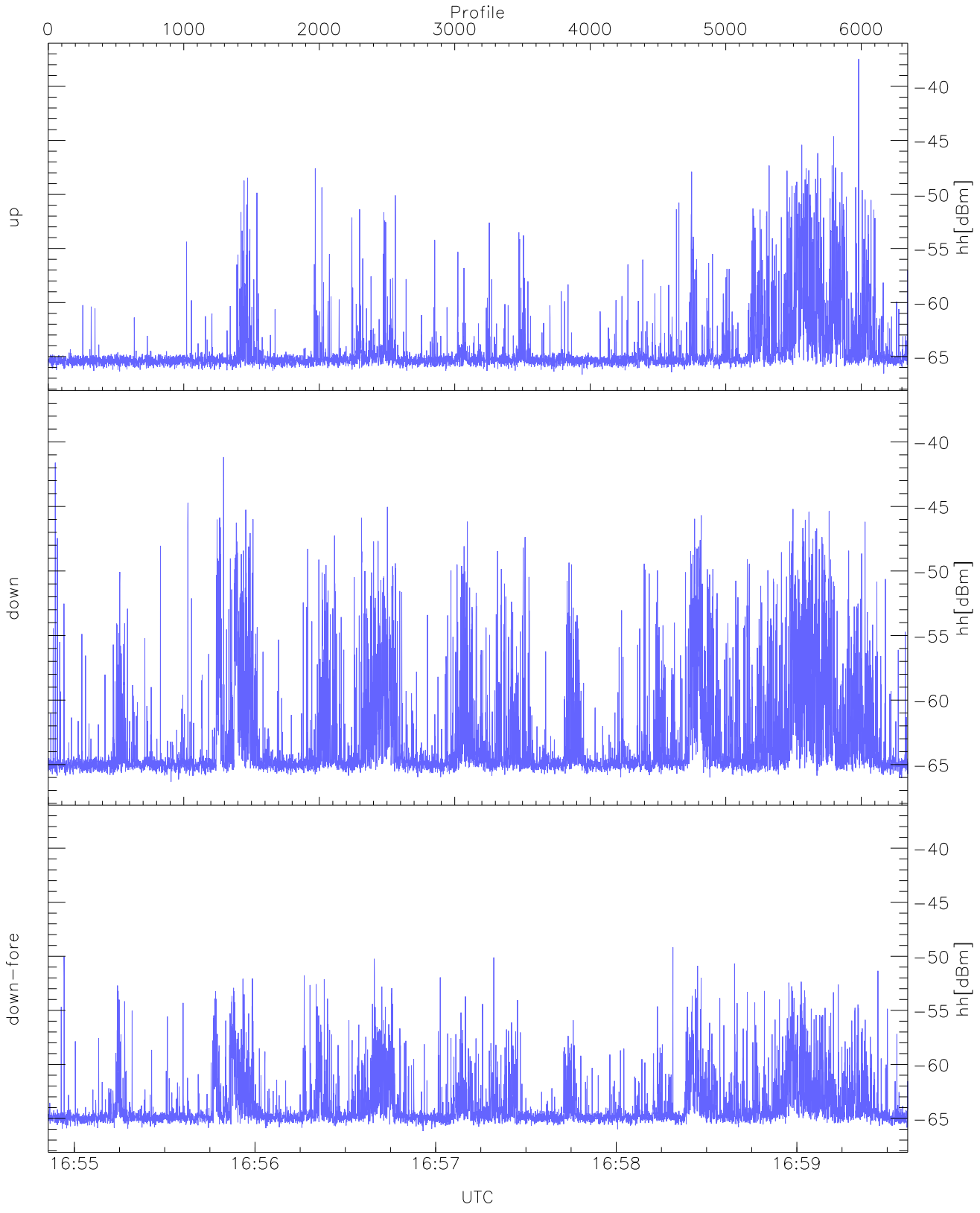

WCR3 CPP Averaged Received power for all recorded gates
blue: 165451-165714, 3173 profiles averaged
red: 165714-165937, 3172 profiles averaged




WCR3 CPP Averaged Received power for the negative gates and up to 100 gate
blue: 165451-165714, 3173 profiles averaged
red: 165714-165937, 3172 profiles averaged

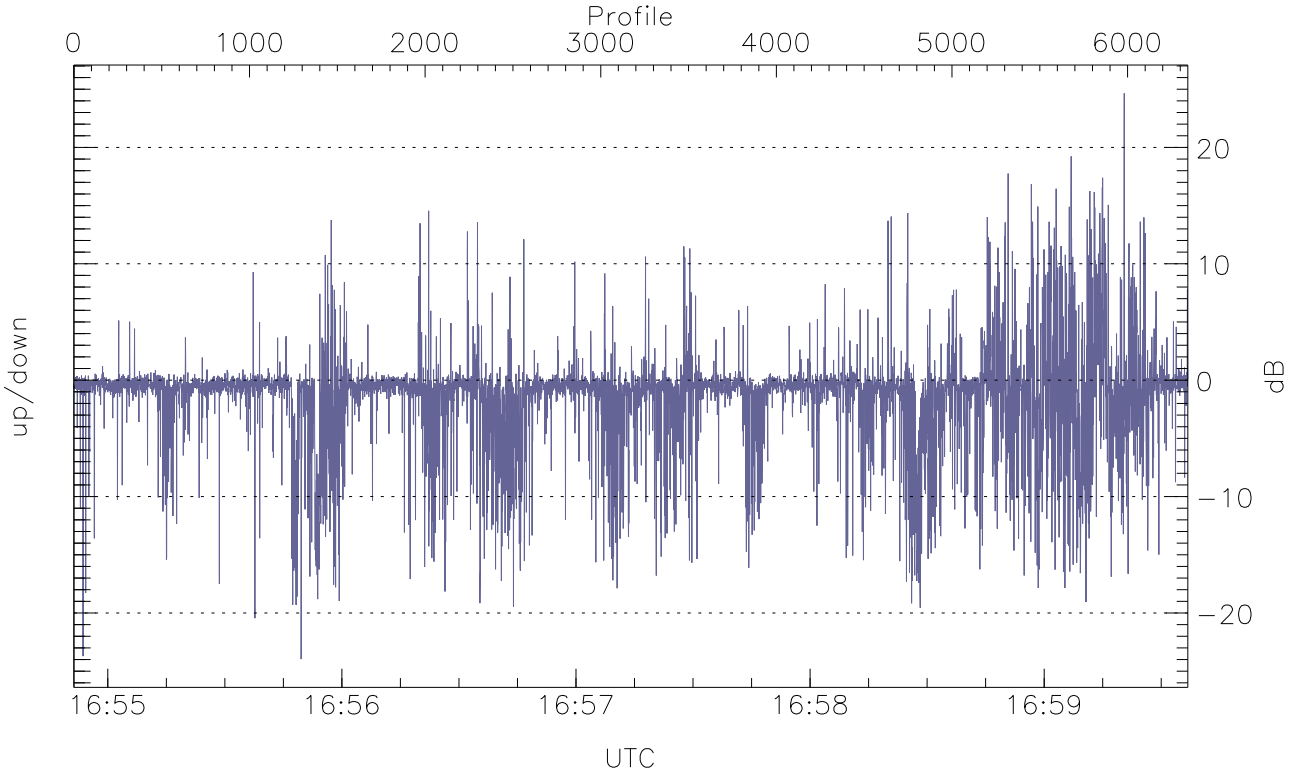


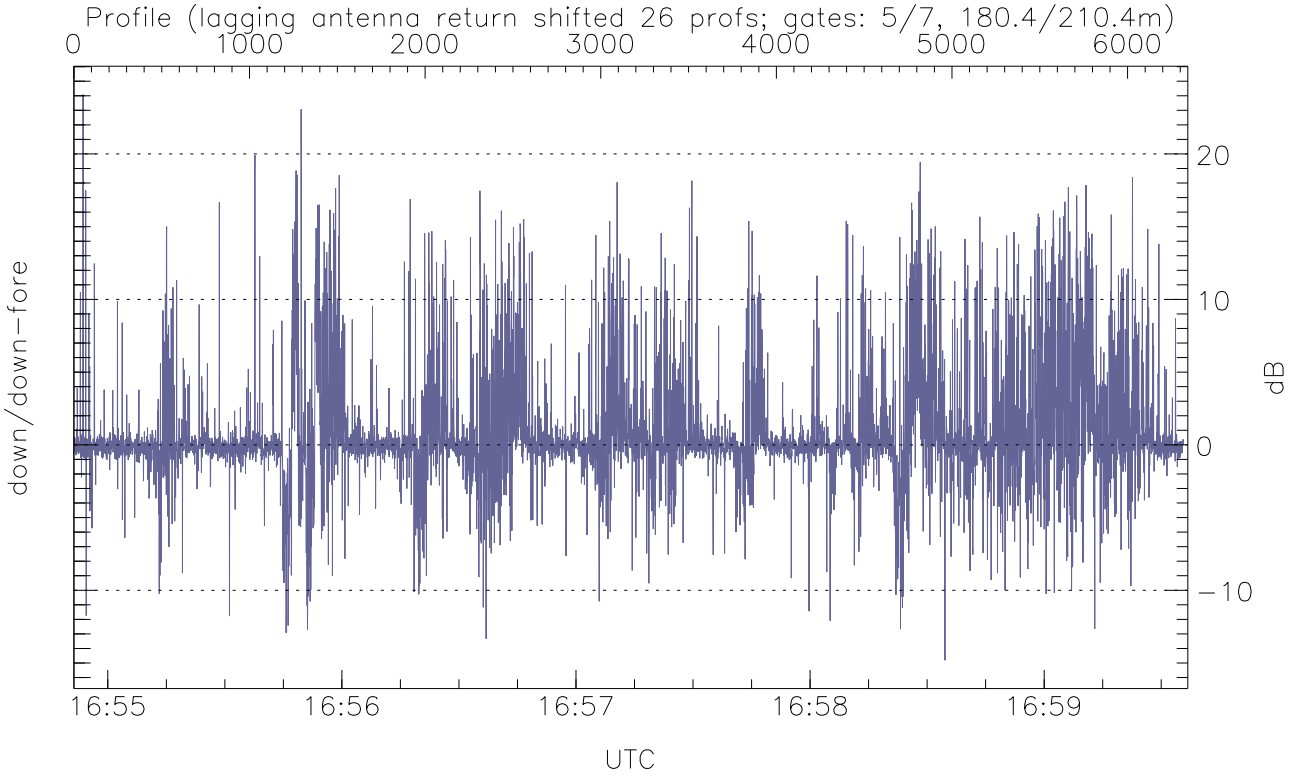

WCR3 CPP Receivers Phase Noise (in m/s) from the Warm Loads Measurements




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

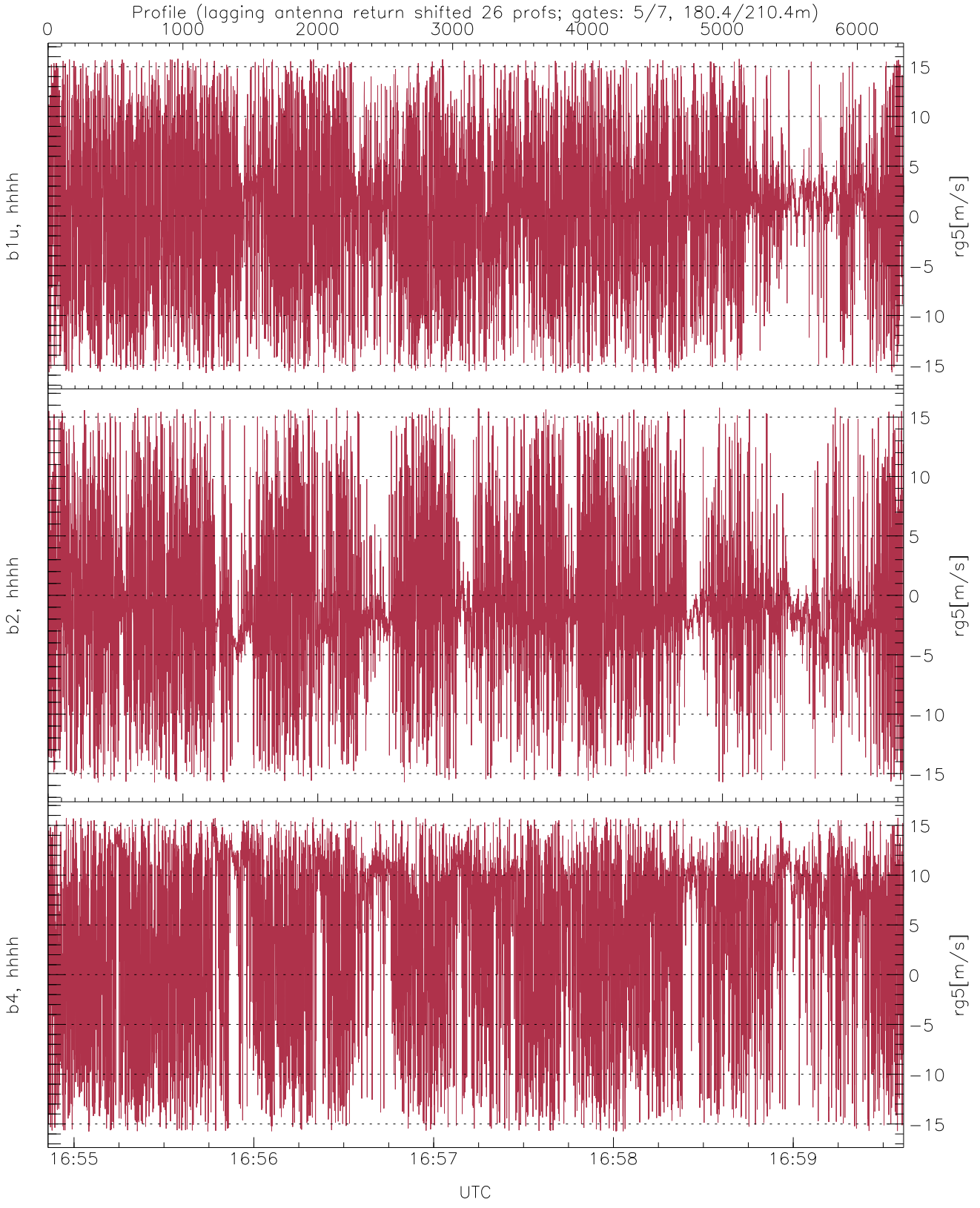
| | Min | Max | Mean |
|---|---|---|---|
| up(hh[dBm]) | -66.67 | -37.47 | -62.24 |
| down(hh[dBm]) | -66.32 | -41.17 | -59.67 |
| down-fore(hh[dBm]) | -66.17 | -49.17 | -62.81 |




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

| | Min | Max | Mean |
|---|---|---|---|
| up/down(dB) | -23.96 | 24.65 | -1.48 |
| down/down-fore(dB) | -14.81 | 24.09 | 0.95 |




WCR3 CPP Doppler Velocity Products at 180.4 m range

| | Min | Max | Mean | StDev |
|---|---|---|---|---|
| b1u, hhhh(rg5[m/s]) | -15.78 | 15.79 | 0.45 | 7.41 |
| b2, hhhh(rg5[m/s]) | -15.75 | 15.79 | -0.66 | 6.44 |
| b4, hhhh(rg5[m/s]) | -15.76 | 15.79 | 4.03 | 8.61 |