

PRELIMINARY REPORT OF 040919

ATTENTION: This report is automatically generated no comments are provided on data analysis

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1 - Introduction

This report is based on the analysis of wave mode level-1 cross spectra (ASA_WVS_1P), global monitoring products (ASA_GM1_1P), which are the available few hours after the acquisition, on the browse (BP) products and on the Module Stepping (MS) product.

2 - Summary

2.1 - Instrument Unavailability

No unavailabilities during the reported period.

2.2 - Browse Visual Inspection

2.3 - Data Analysis

- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

3 - Module Stepping Mode

The MS mode provides an internal health check on an individual module basis. The purpose of this mode is to identify any malfunctioning modules and to identify modules for which calibration offsets are to be applied. No anomalies observed on available MS products:

Polarisation	Start Time
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MSM in V/V polarisation

MSM in H/H polarisation

4 - Internal calibration Results

No anomalies observed.

4.1 - Daily statistics

4.1.1 - Evolution for WVS

Evolution of cal pulses for WVS



4.1.2 - Evolution for GM1

Evolution of cal pulses for GM1

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4.2 - Cyclic statistics

4.2.1 - Evolution for WVS

Evolution of cal pulses for WVS

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P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-3.456488	0.023808	-0.105165
7	P1	-3.309712	0.032855	-0.184281
11	P1	-4.644964	0.042455	-0.045614
15	P1	-5.759410	0.086753	-0.094665
19	P1	-3.507316	0.078358	-0.112966
22	P1	-4.558156	0.106637	-0.084988
24	P1	-4.998199	0.124656	-0.095425
30	P1	-7.019964	0.148129	-0.201271
3	P1	-15.954317	1.330943	-1.620640
7	P1	-14.029292	0.077305	0.112418
11	P1	-20.241234	0.285880	-0.058383
15	P1	-11.775894	0.041278	0.023591
19	P1	-14.019783	1.091773	-0.370458
22	P1	-16.079205	0.348412	0.205326
24	P1	-14.478886	0.314774	0.126622
30	P1	-17.916162	0.630914	-0.089256

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-22.308037	0.084587	-0.023634
7	P2	-22.601370	0.125628	-0.050313
11	P2	-15.242305	0.155189	0.105724
15	P2	-7.061133	0.097753	-0.008322
19	P2	-9.567549	0.162226	0.028084
22	P2	-17.325188	0.112105	0.057333
24	P2	-20.754440	0.091092	-0.044022
30	P2	-19.195513	0.083326	0.112994

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.151319	0.002766	-0.024495
7	P3	-8.151319	0.002766	-0.024496
11	P3	-8.151317	0.002766	-0.024484
15	P3	-8.151322	0.002765	-0.024444
19	P3	-8.151338	0.002764	-0.024378
22	P3	-8.151347	0.002765	-0.024319
24	P3	-8.151340	0.002765	-0.024323
30	P3	-8.151436	0.002759	-0.024403

4.2.2 - Evolution for GM1

Evolution of cal pulses for GM1

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P1a Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
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P1 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P1	-2.742235	0.141663	-0.582701
7	P1	-2.965738	0.130048	-0.413047
11	P1	-3.889936	0.063078	-0.054647

15	P1	-3.538954	0.078064	-0.063110
19	P1	-3.515747	0.096255	-0.111045
22	P1	-5.727789	0.120617	-0.083991
24	P1	-3.950525	0.052937	-0.094536
30	P1	-6.210391	0.097283	-0.087444
3	P1	-10.576252	0.705710	-1.532203
7	P1	-10.073389	0.157308	-0.230290
11	P1	-12.168934	0.112920	0.010886
15	P1	-11.679412	0.076854	-0.042867
19	P1	-15.742907	2.009289	-0.432966
22	P1	-23.347477	1.561455	0.254003
24	P1	-17.939001	0.346588	0.014378
30	P1	-20.407364	1.268746	0.141351

P2 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P2	-17.987236	0.050057	-0.015806
7	P2	-22.744612	0.040007	0.021101
11	P2	-10.944435	0.060412	0.091047
15	P2	-4.962287	0.030684	-0.009211
19	P2	-6.772882	0.045948	-0.023129
22	P2	-7.433453	0.038141	0.046027
24	P2	-11.059937	0.043848	-0.022444
30	P2	-22.161783	0.029465	0.092220

P3 Cyclic statistics

row	pulse	mean (dB)	stdev (dB)	slope(dB/cycle)
3	P3	-8.003037	0.003071	-0.021247
7	P3	-8.003023	0.003072	-0.021568
11	P3	-8.003085	0.003071	-0.021118
15	P3	-8.003087	0.003060	-0.021681
19	P3	-8.003061	0.003079	-0.021395
22	P3	-8.003063	0.003070	-0.021474
24	P3	-8.003124	0.003089	-0.021586
30	P3	-8.003031	0.003072	-0.021213

4.3 - cal pulses monitoring (all rows)

4.3.1 - Evolution for WVS



4.3.2 - Evolution for GM1



5 - RAW data statistics

No anomalies observed.

5.1 - Input mean I/Q

channel	stat	DSS-B
MEAN I	mean	0.000468790
	stdev	2.20471e-07
MEAN Q	mean	0.000538236
	stdev	2.37469e-07



5.2 - Input stdev I/Q

channel	stat	DSS-B
STDEV I	mean	0.127359
	stdev	0.000955649
STDEV Q	mean	0.127580
	stdev	0.000965194



5.3 - Gain imbalance I/Q



6 - Doppler Analysis

Preliminary report. The data is not yet controlled

6.1 - Unbiased Doppler Error for WVS

Evolution of unbiased Doppler error (Real - Expected)	
<input type="checkbox"/>	
	Acsending
<input type="checkbox"/>	
	Descending

6.2 - Absolute Doppler for WVS

Evolution of Absolute Doppler	
<input type="checkbox"/>	
	Acsending
<input type="checkbox"/>	
	Descending

6.3 - Doppler evolution versus ANX for WVS

Evolution Doppler error versus ANX	
<input type="checkbox"/>	

6.4 - Unbiased Doppler Error for GM1

Evolution of unbiased Doppler error (Real - Expected)	
<input type="checkbox"/>	
	Acsending
<input type="checkbox"/>	
	Descending

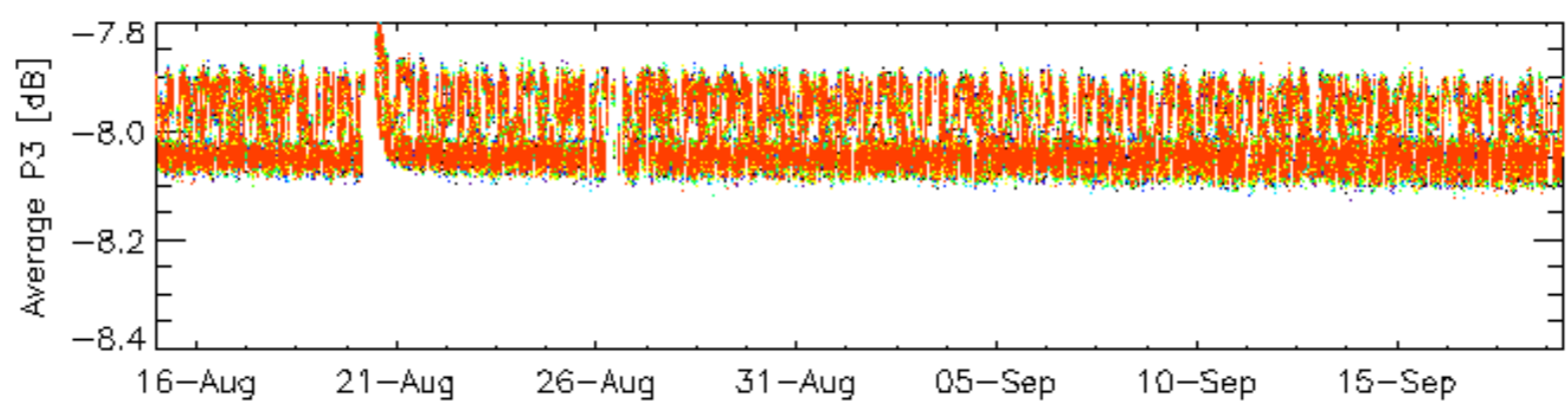
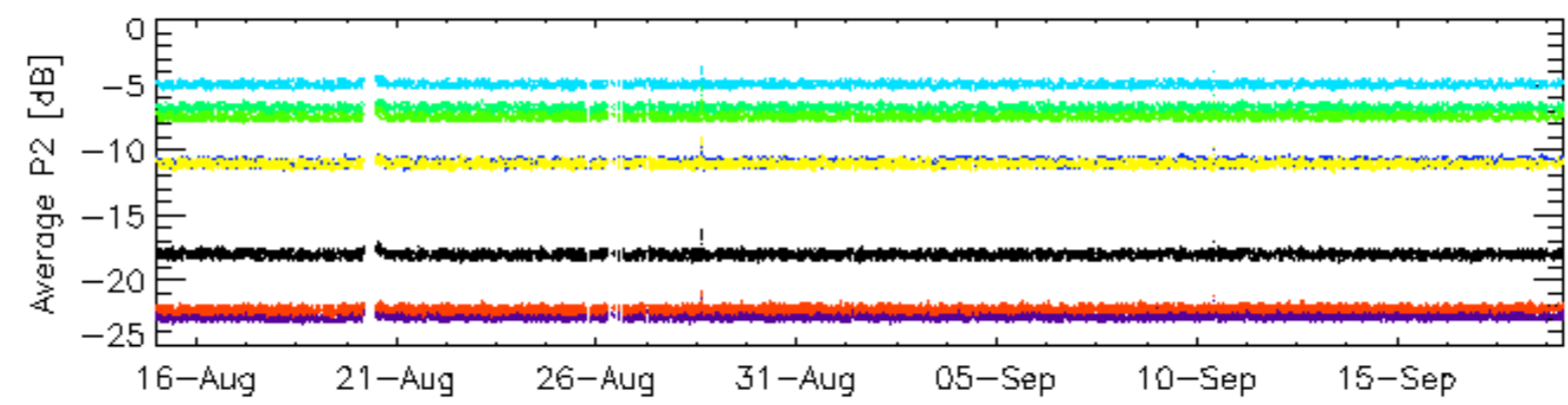
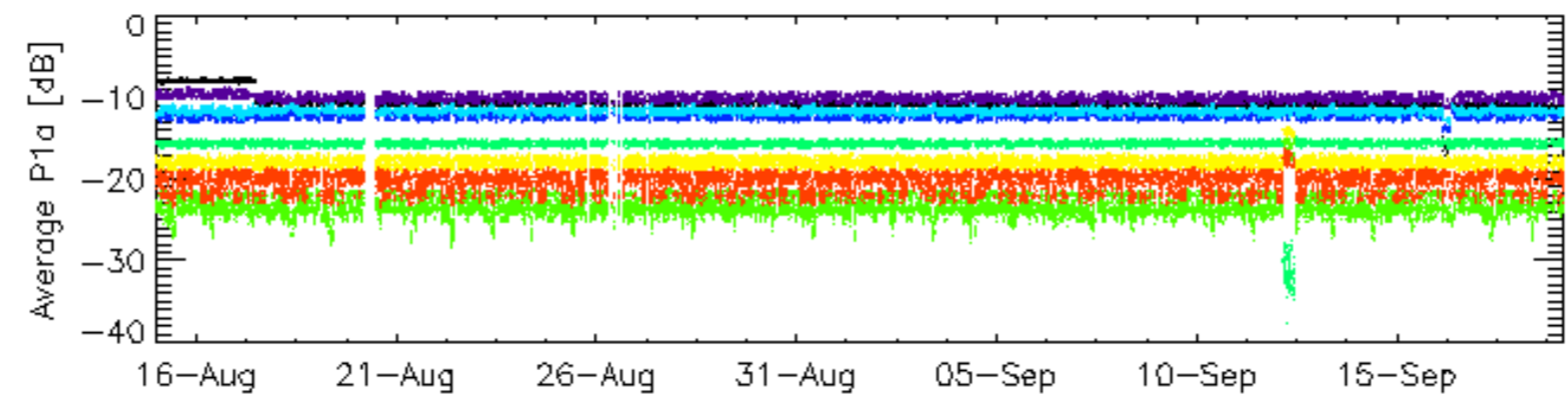
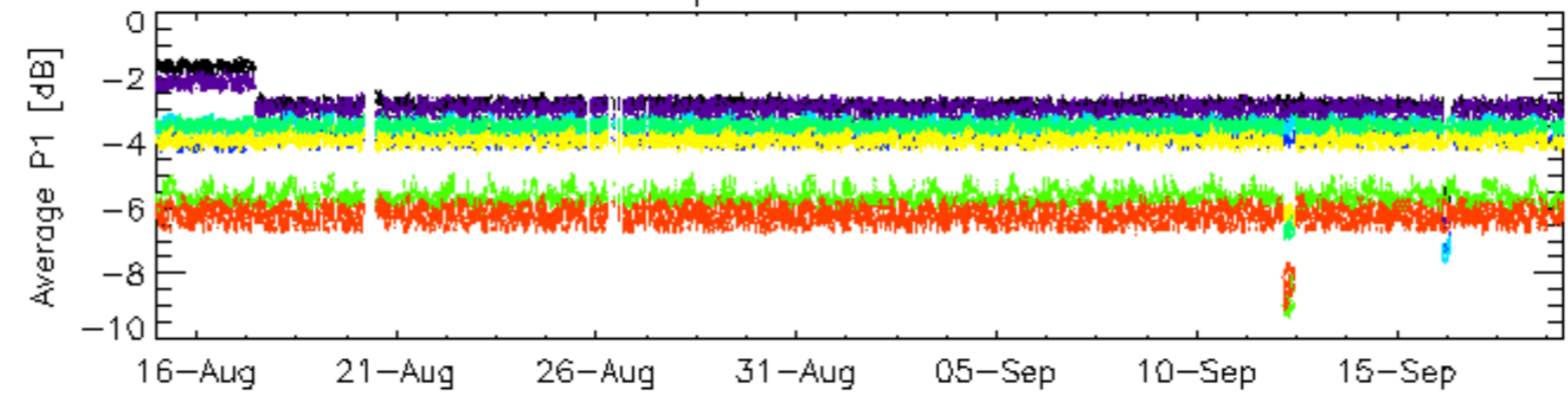
6.5 - Absolute Doppler for GM1

Evolution of Absolute Doppler	
<input type="checkbox"/>	
	Ascending
<input type="checkbox"/>	
	Descending

6.6 - Doppler evolution versus ANX for GM1

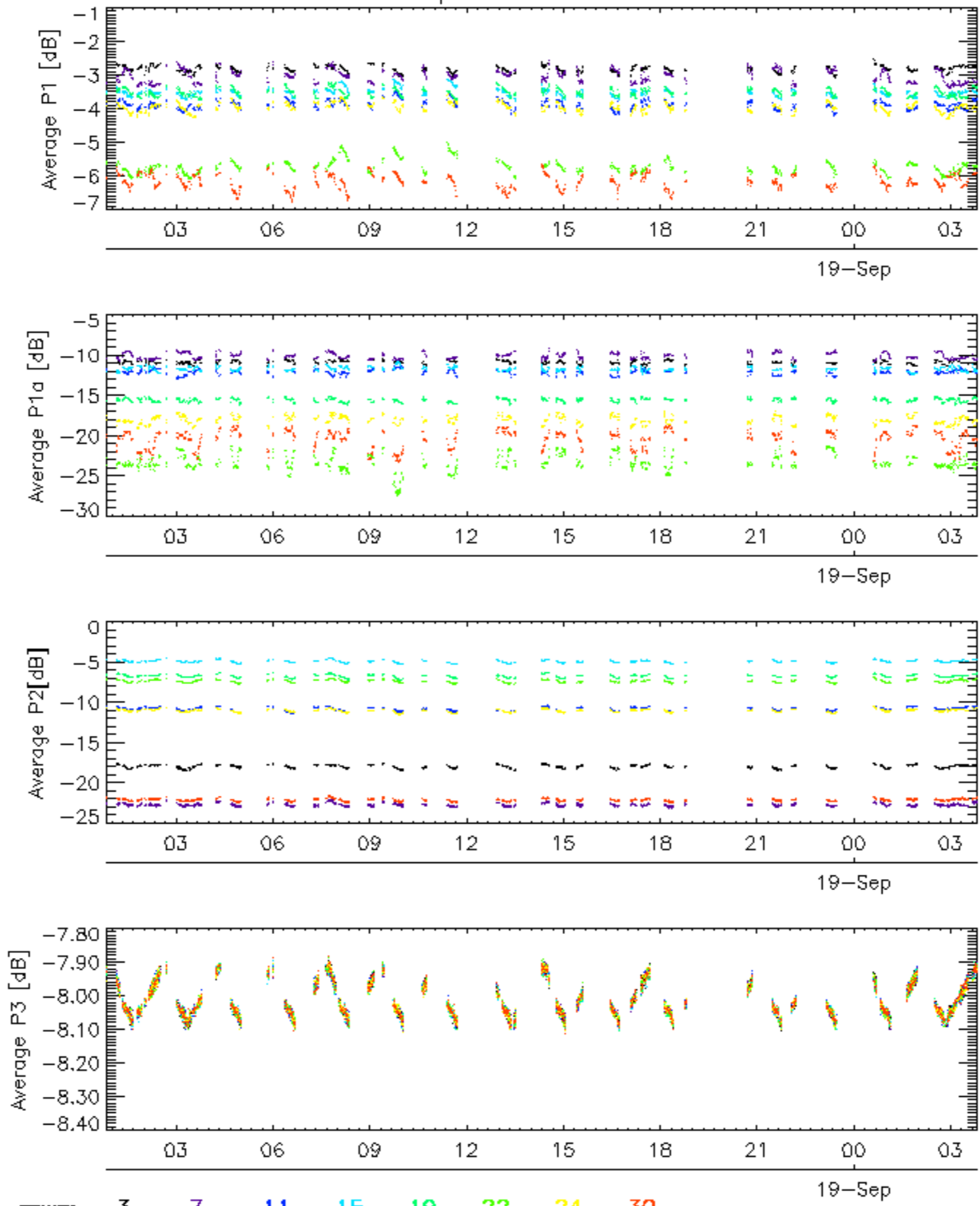
Evolution Doppler error versus ANX	
<input type="checkbox"/>	

Cal pulses for GM1 SS3



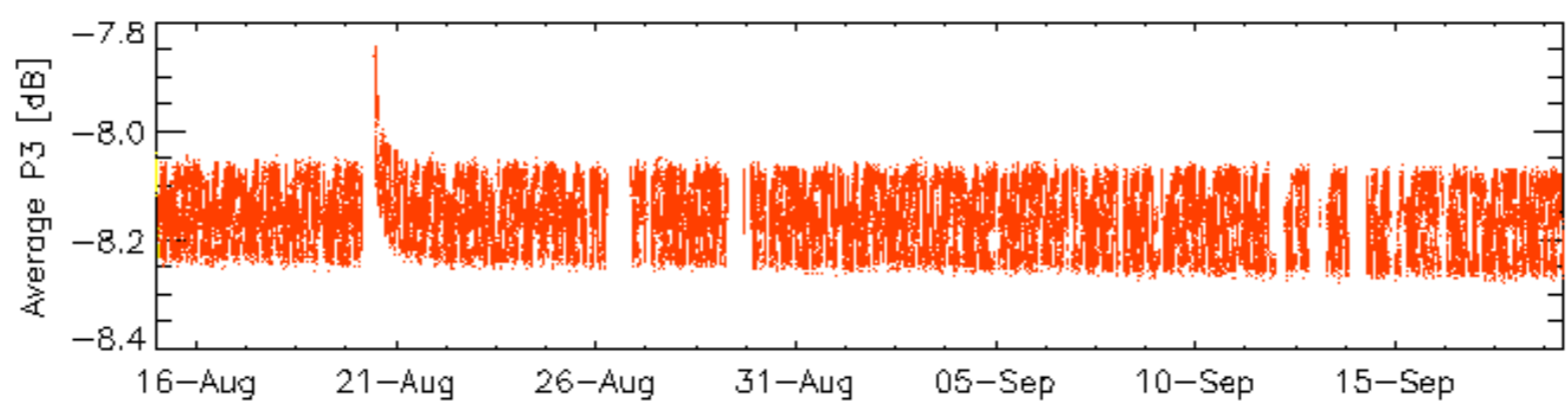
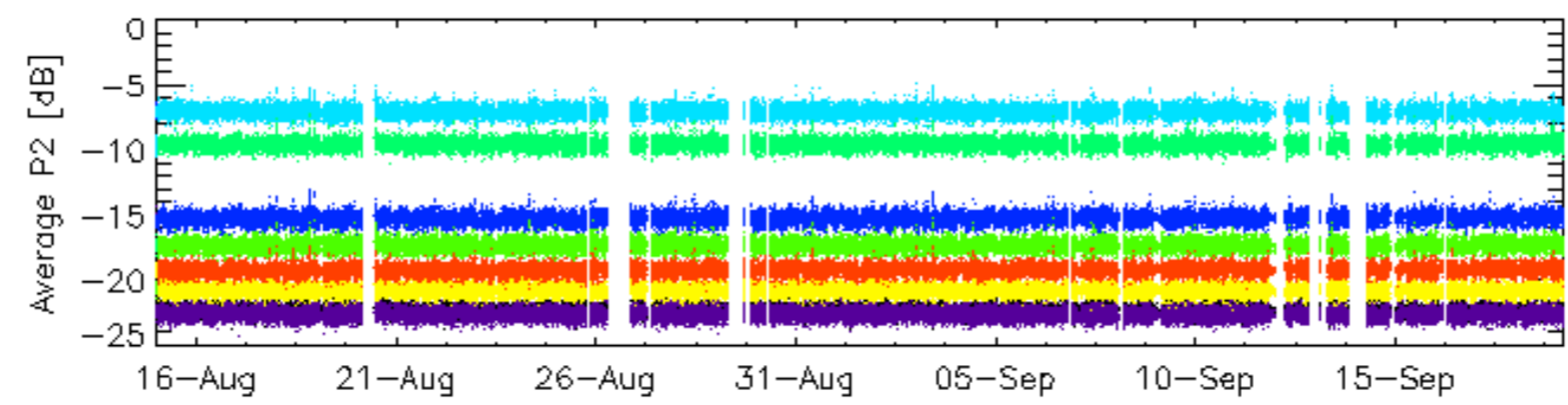
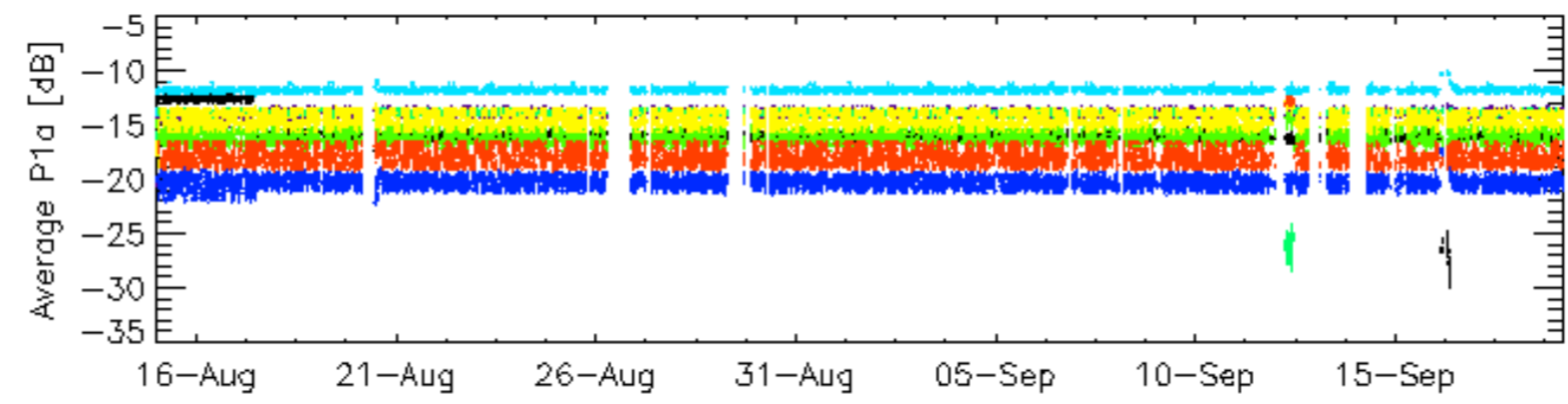
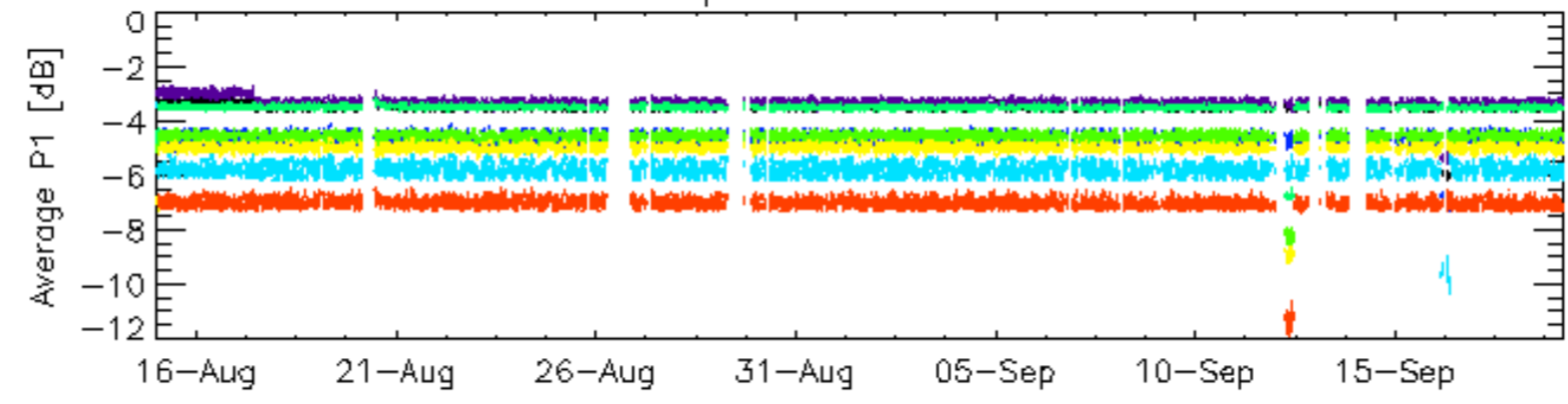
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30

Cal pulses for GM1 SS3



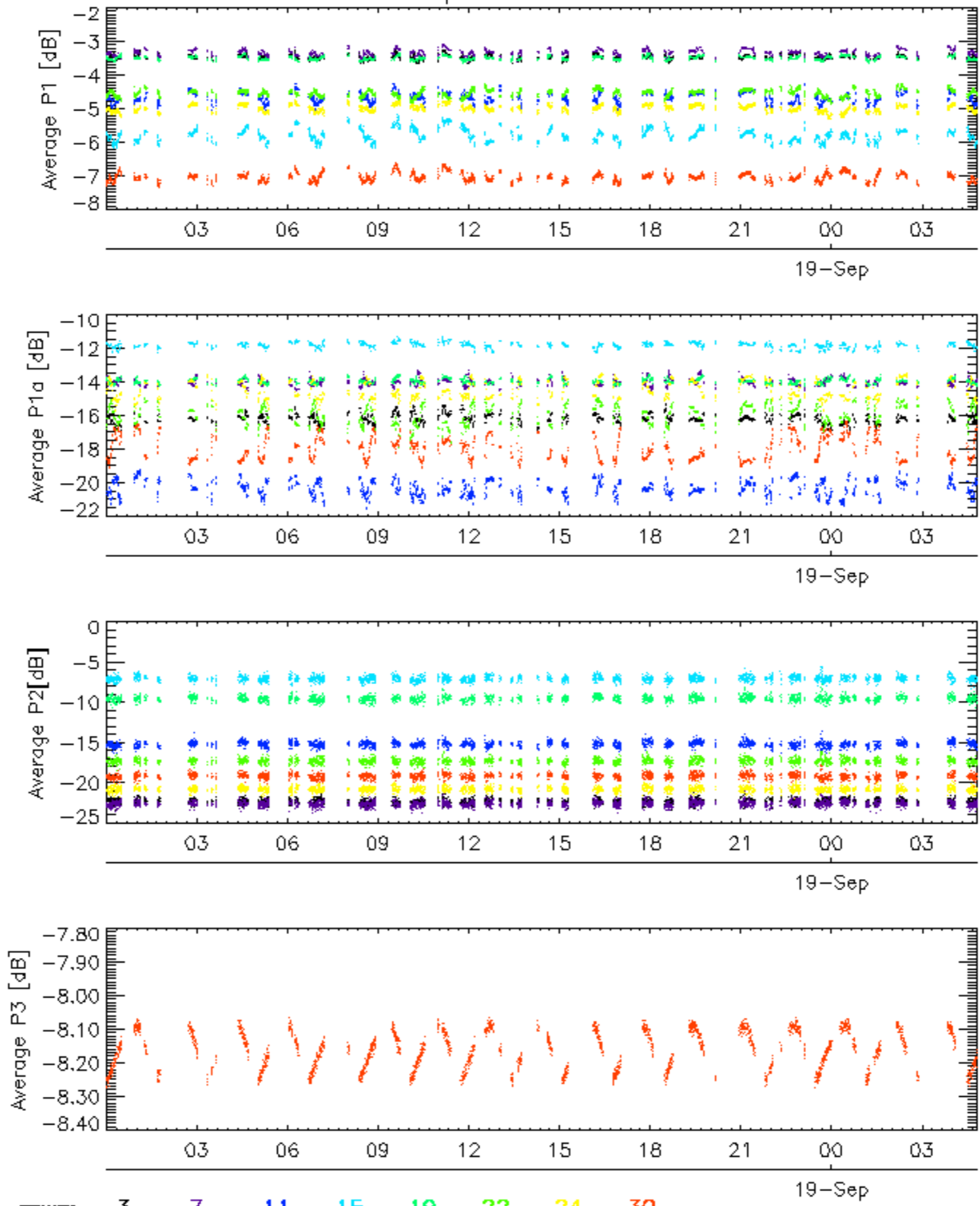
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Cal pulses for WVS IS2



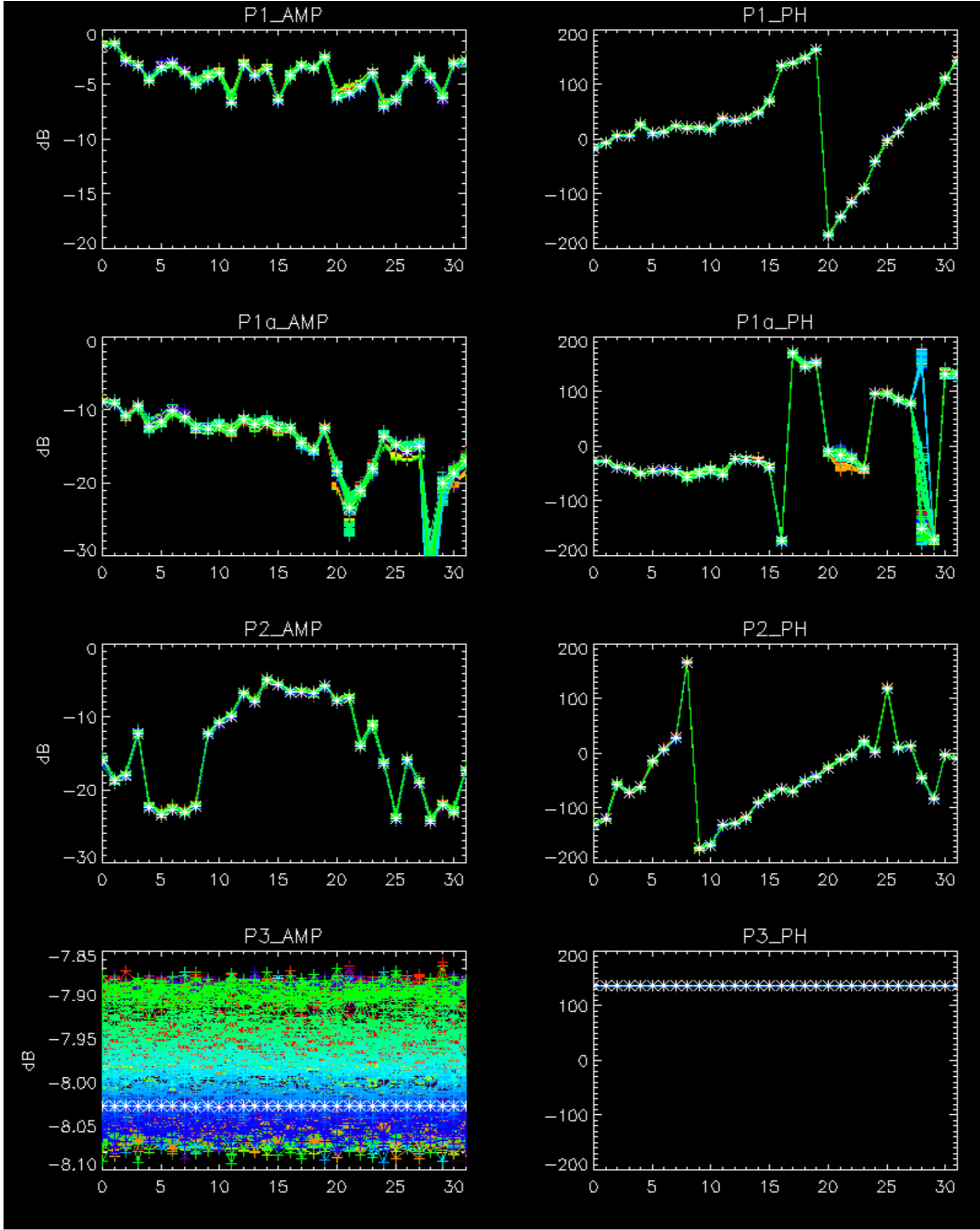
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30

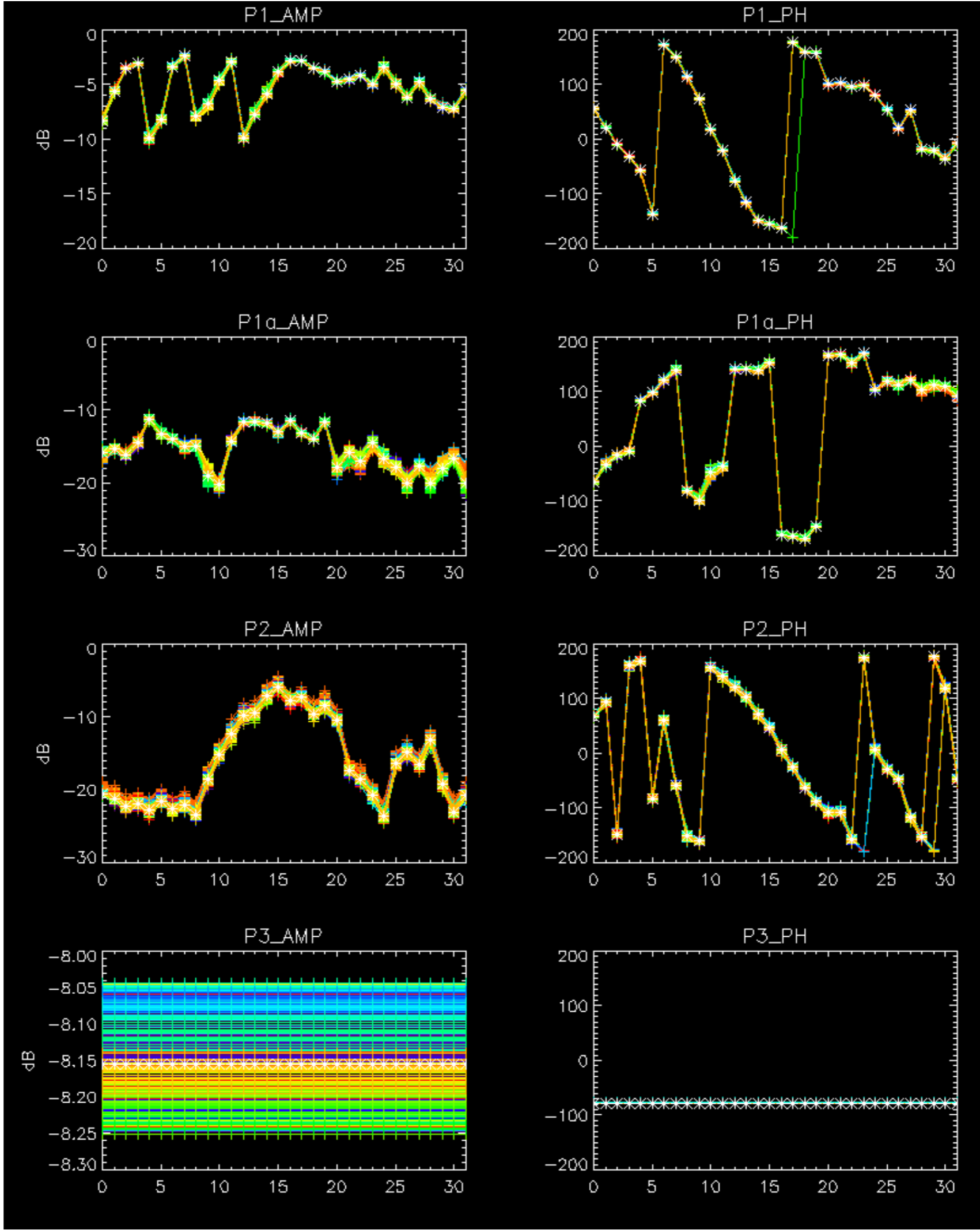
Cal pulses for WVS IS2



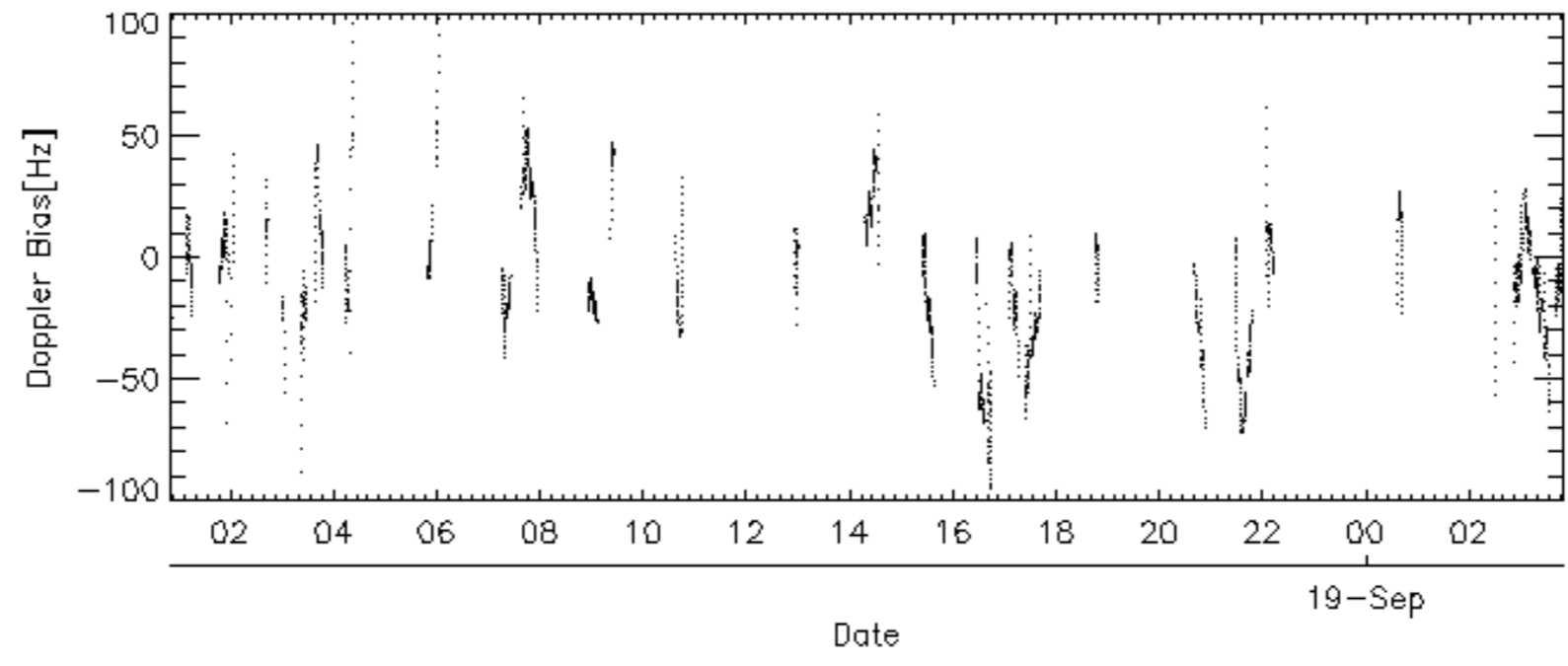
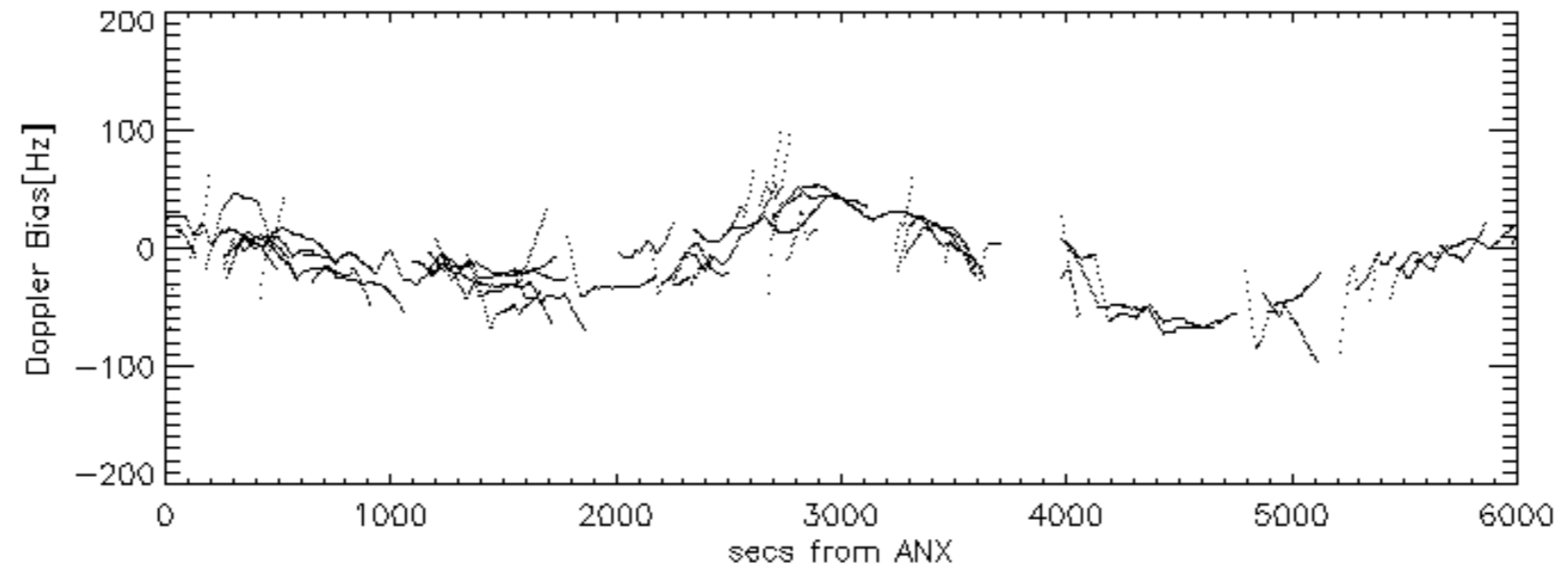
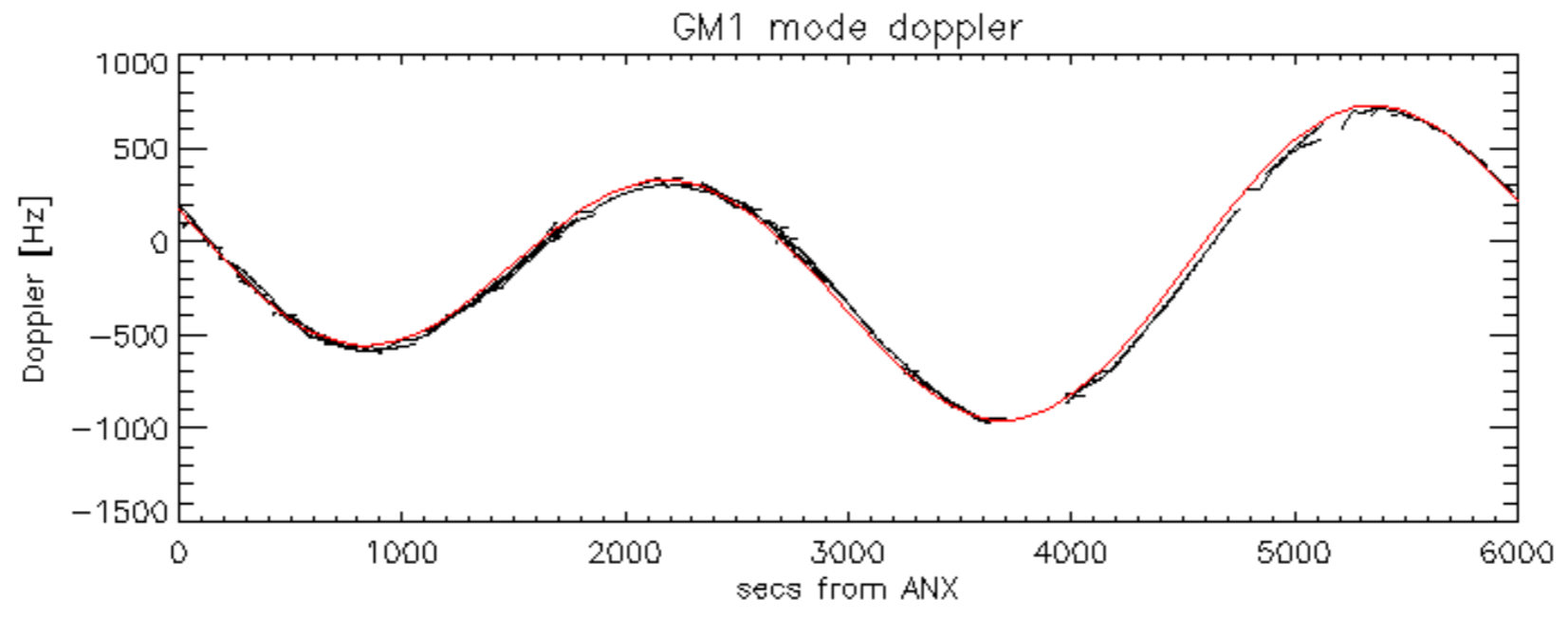
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30

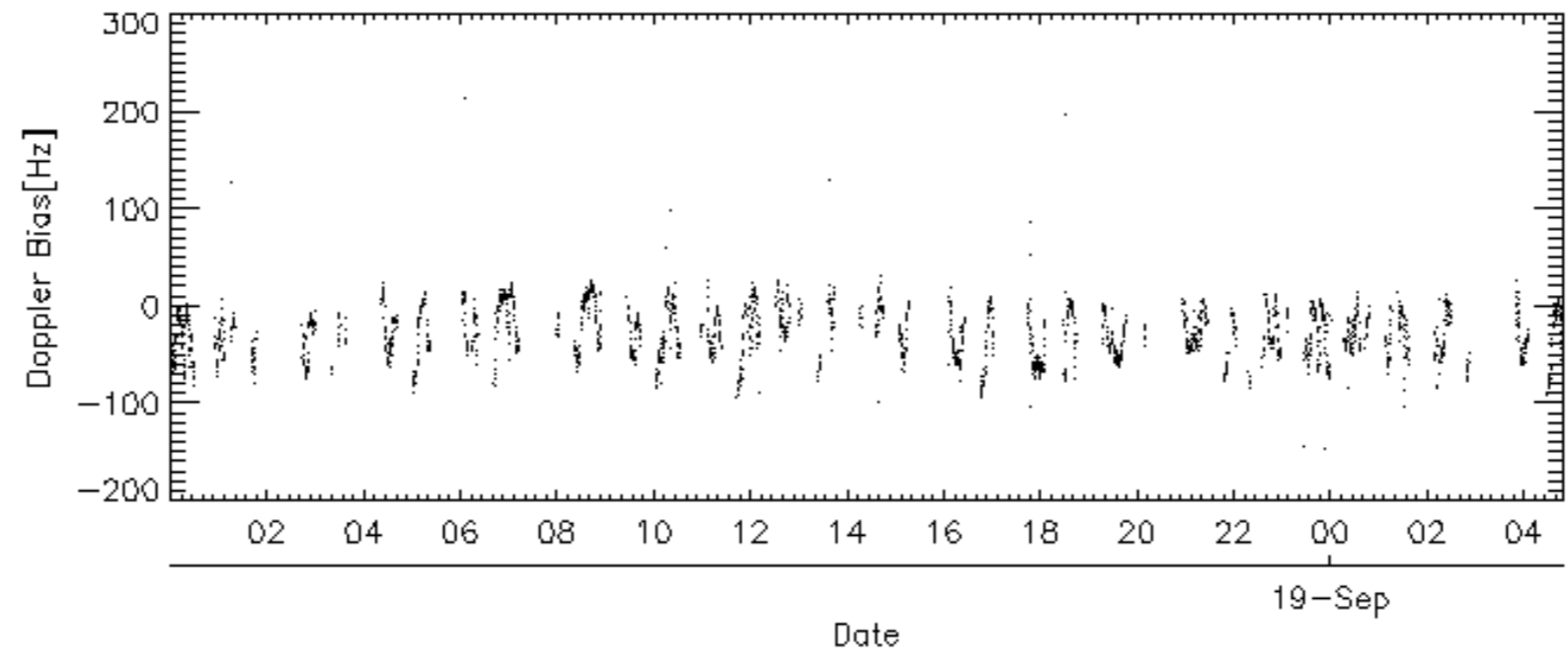
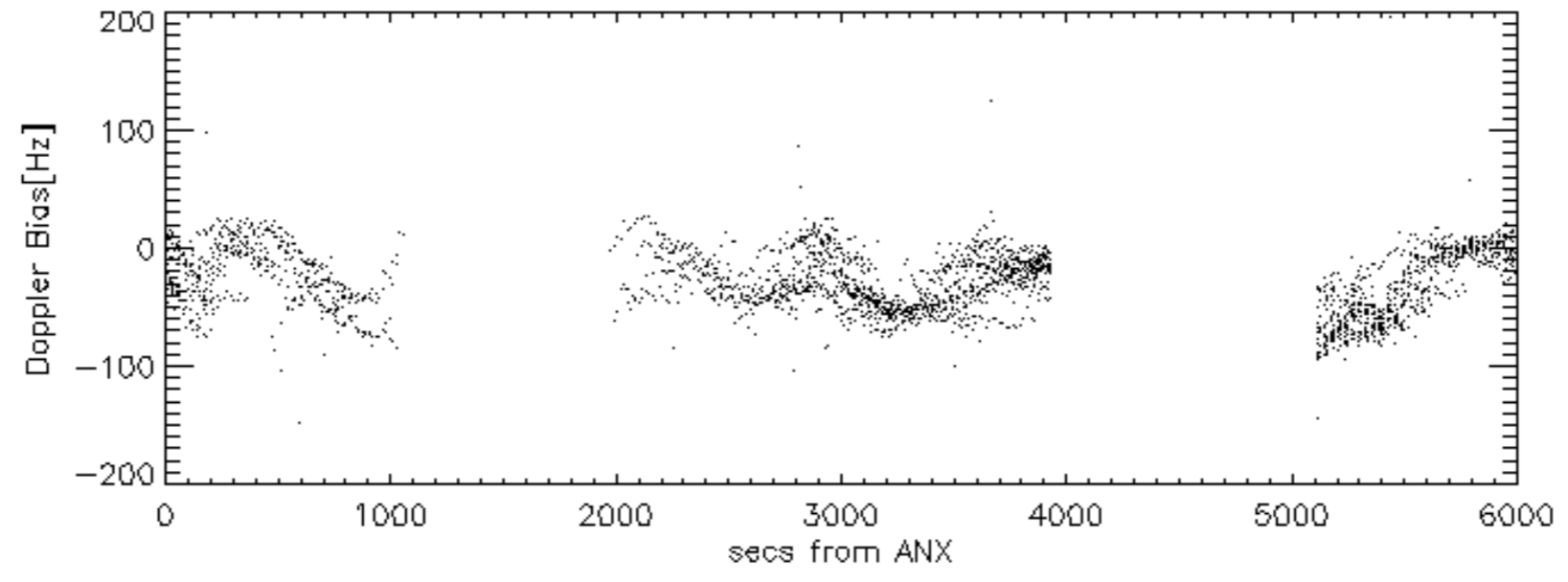
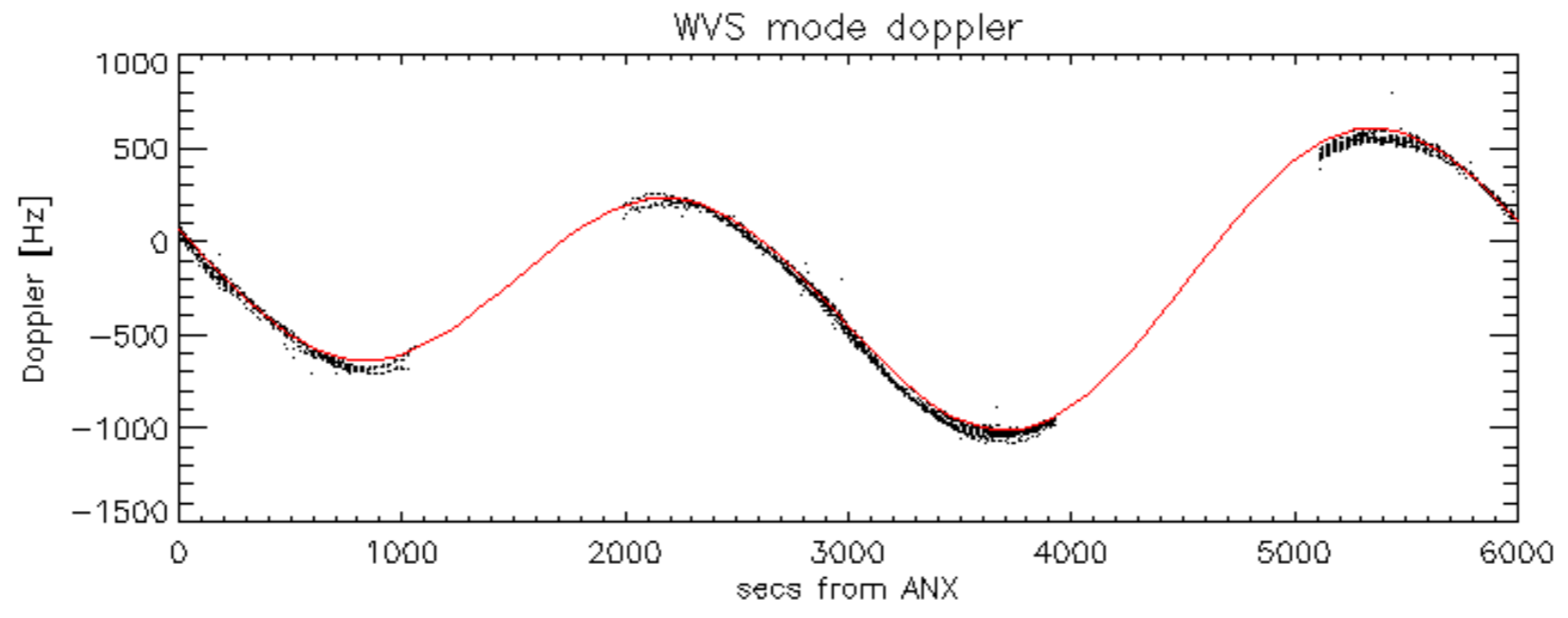
No anomalies observed.





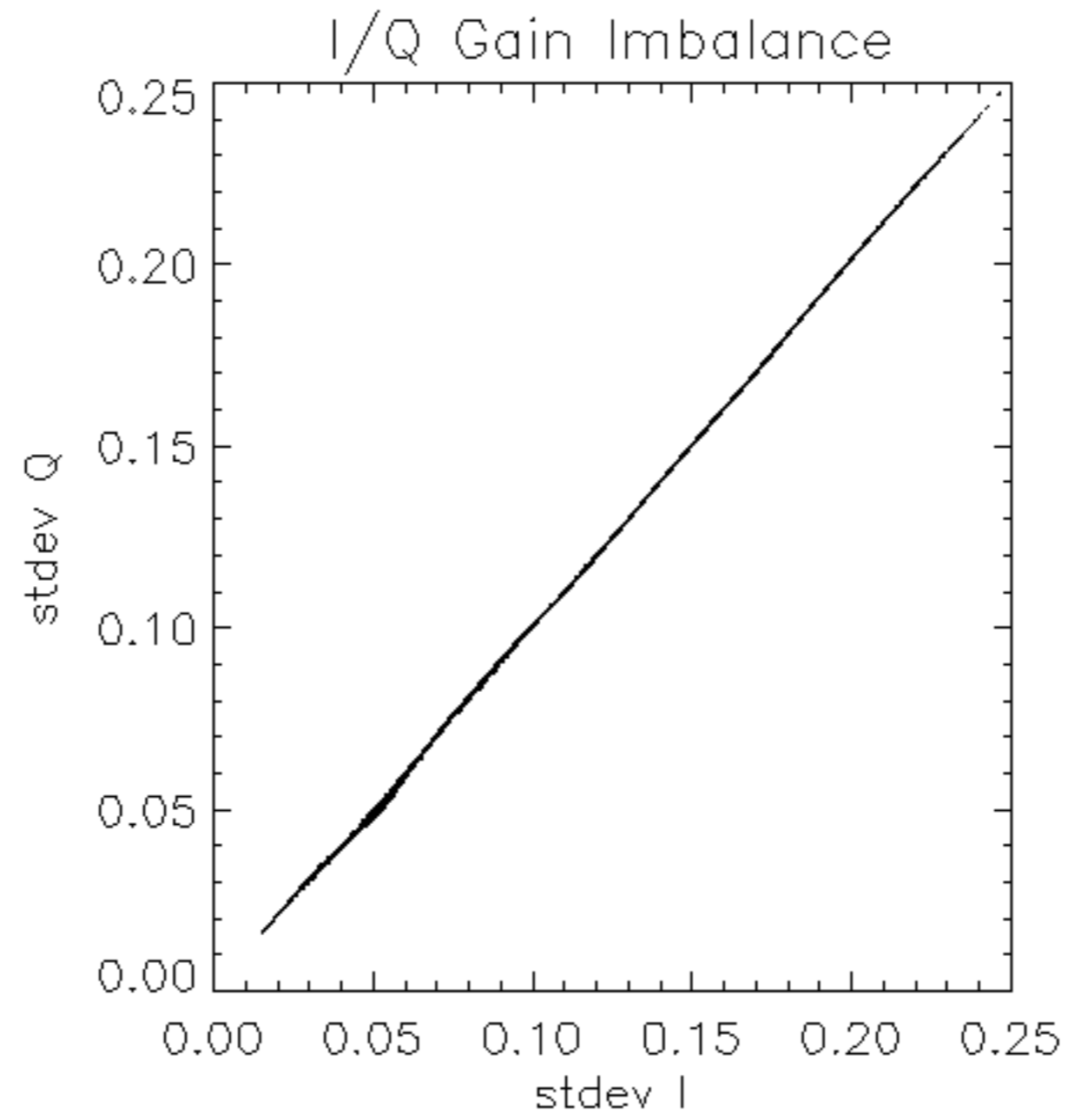
- Stable wave internal calibration pulses gain and phase.
- Stable raw data statistics.
- Nominal Doppler behavior.

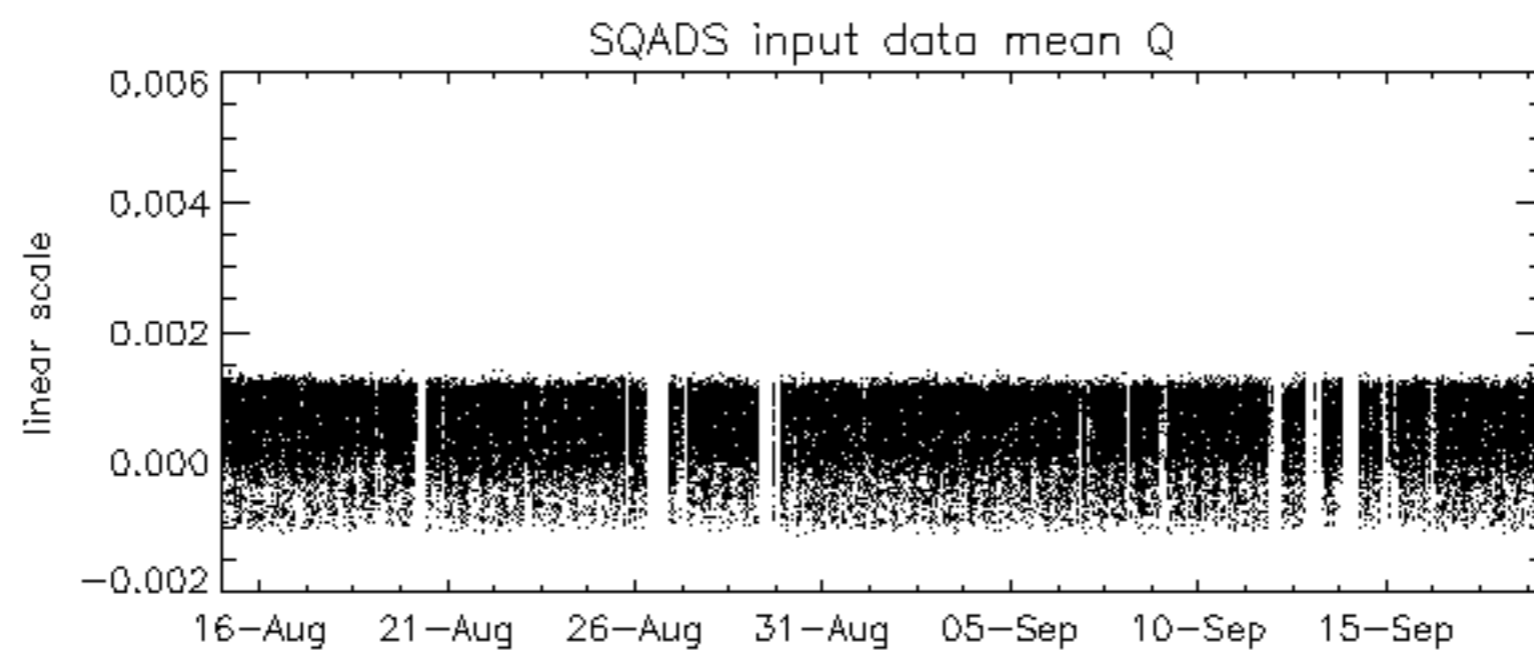
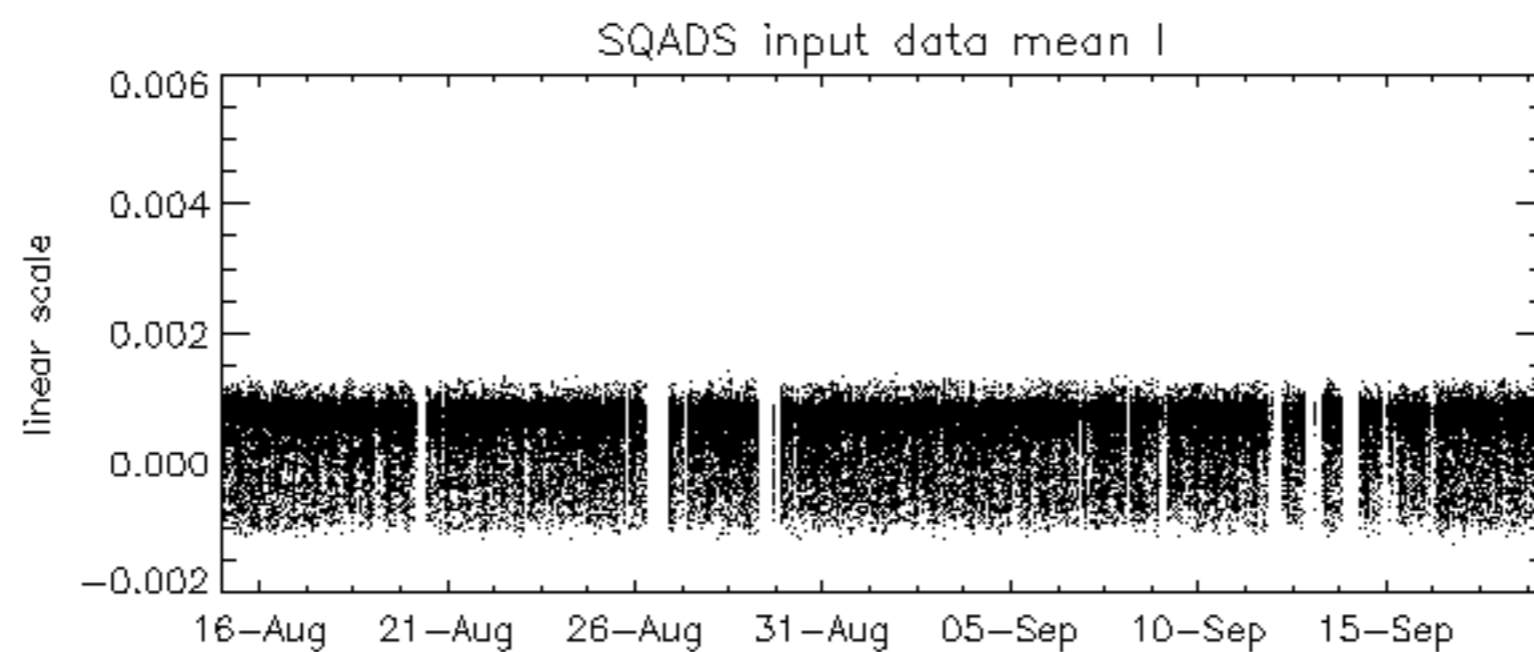
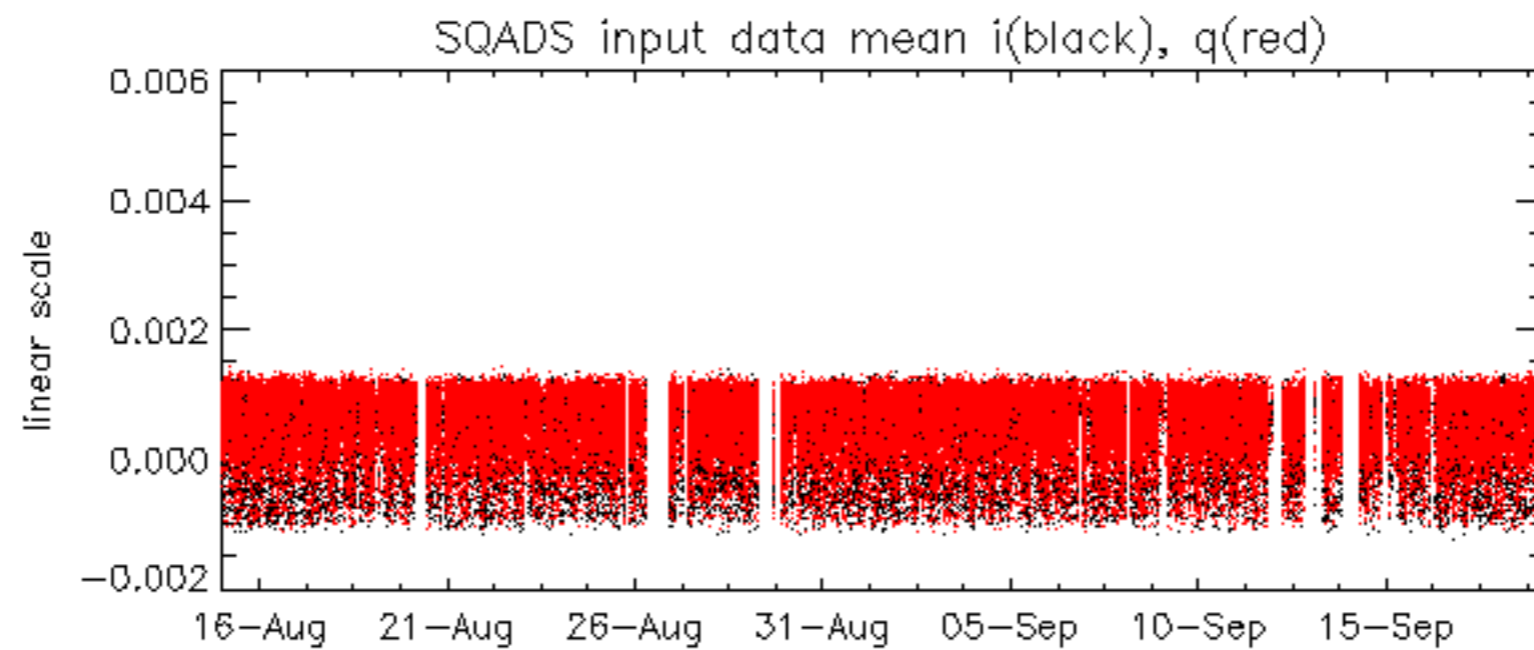


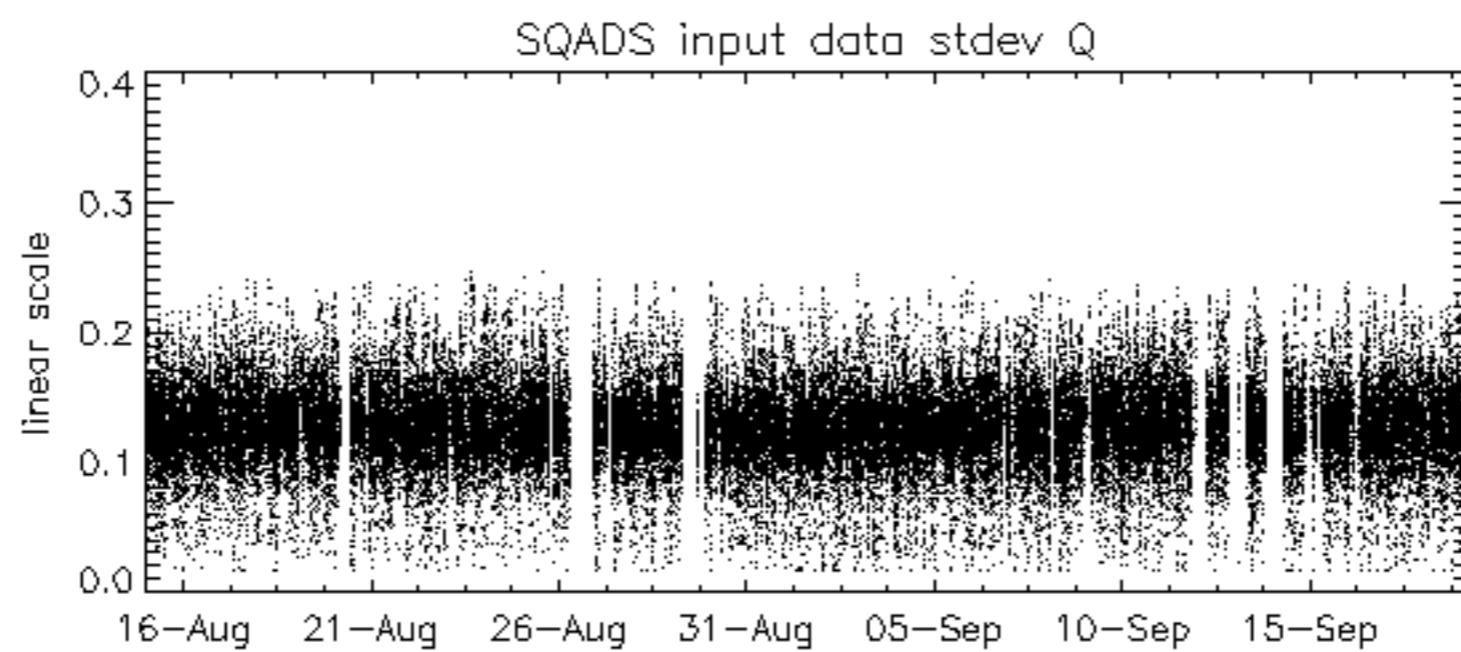
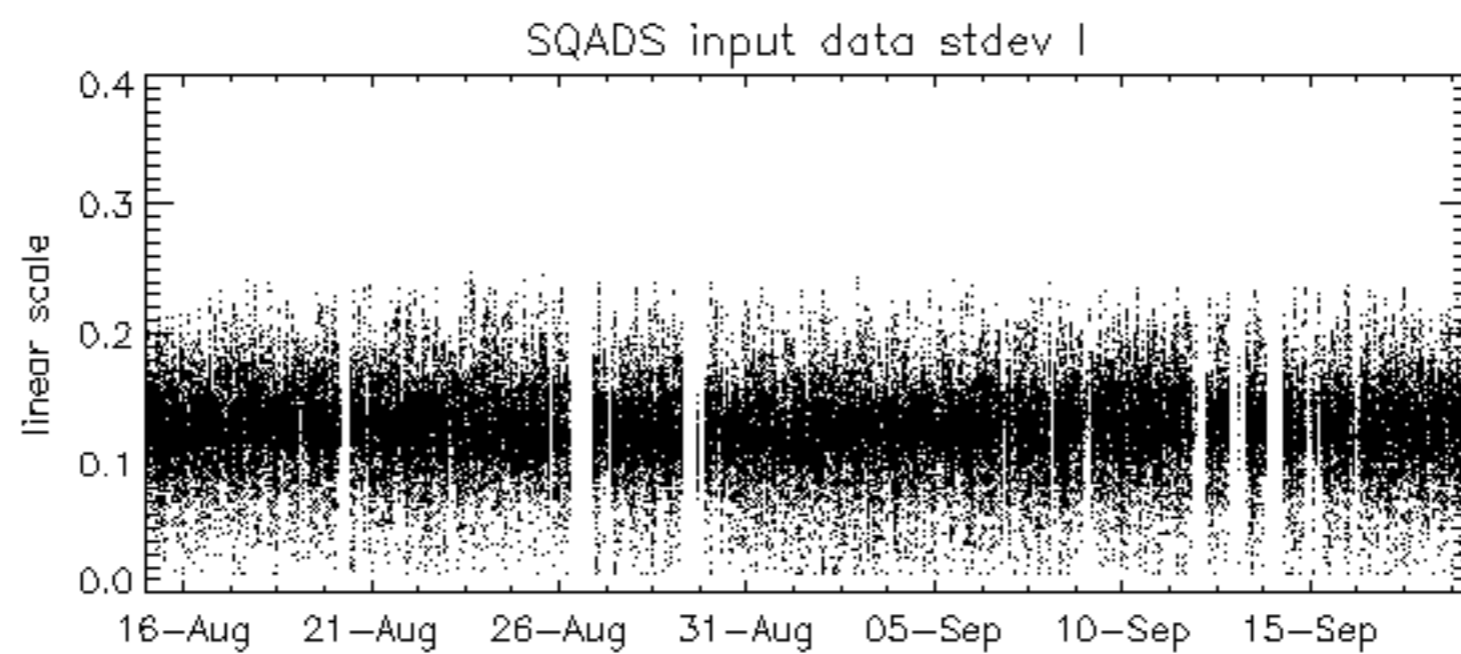
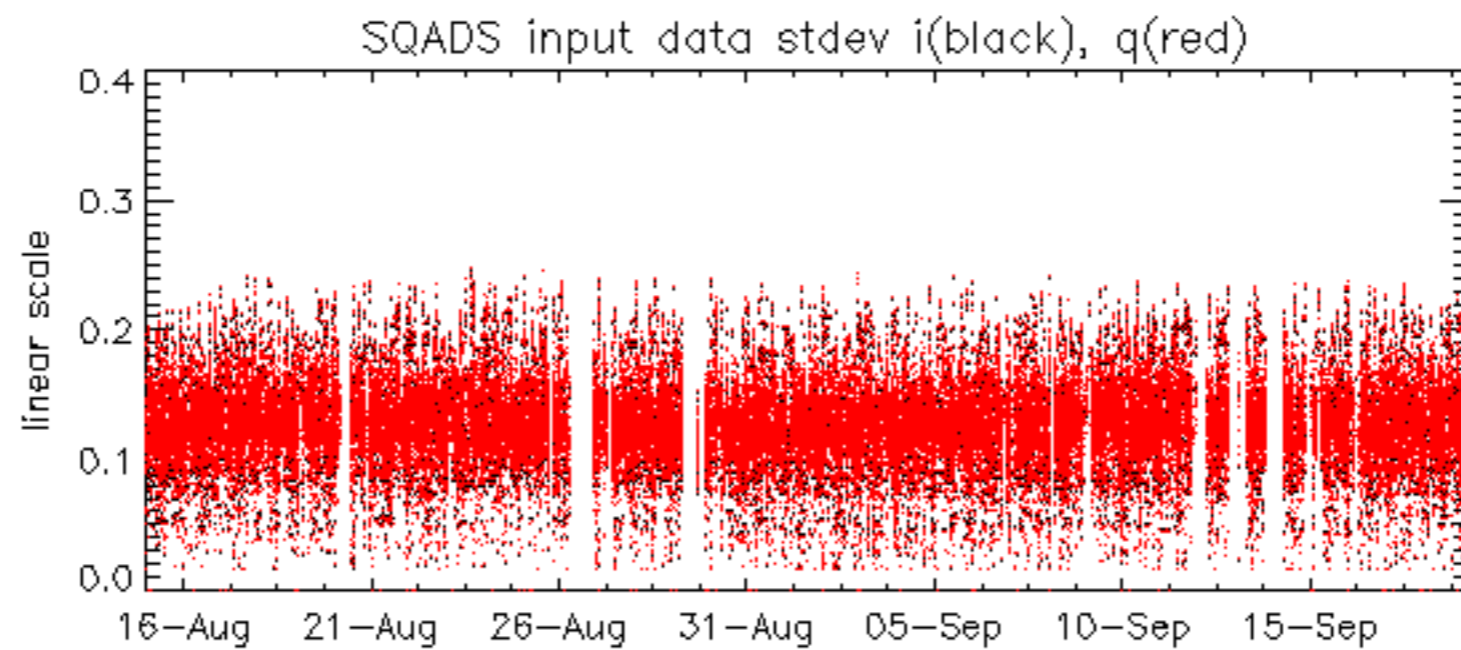


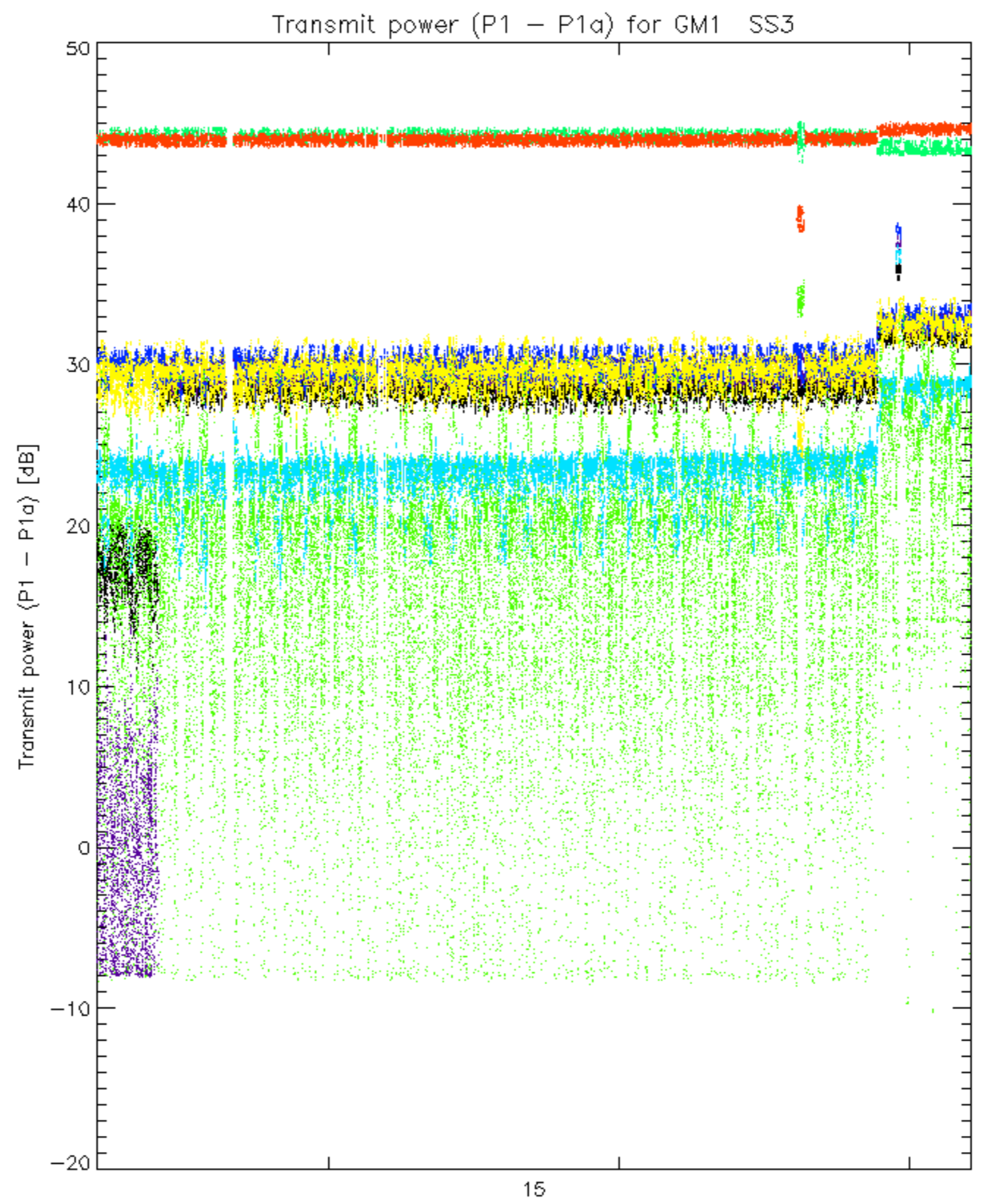
The MS mode provides an internal health check on an individual module basis.
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to identify modules for which calibration offsets are to be applied.
No anomalies observed on available MS products:

No anomalies observed.

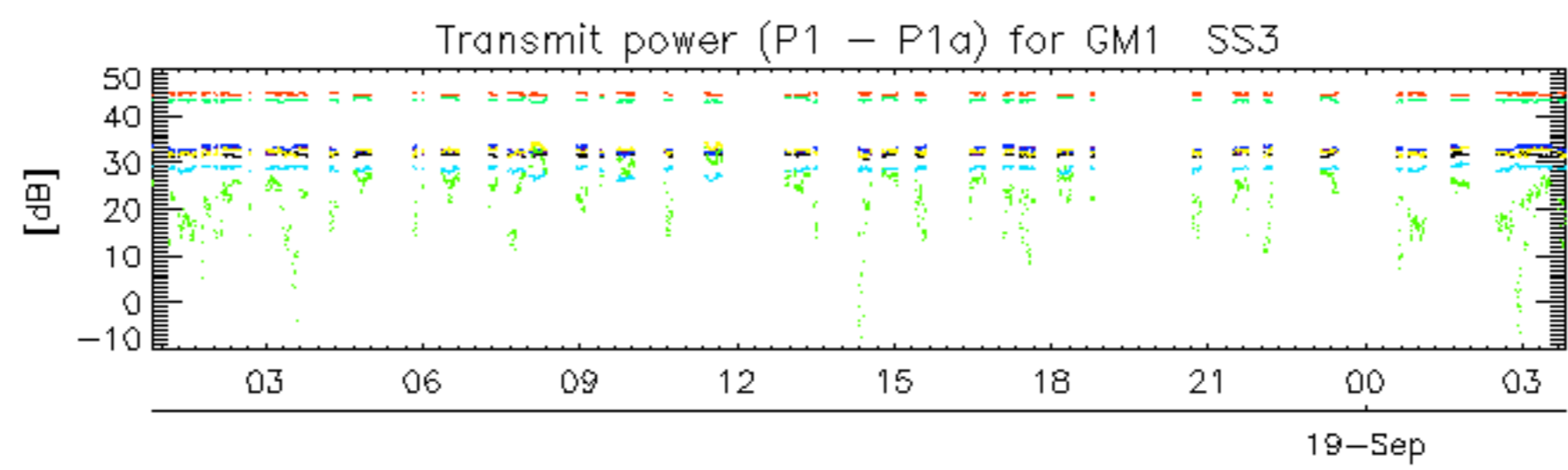




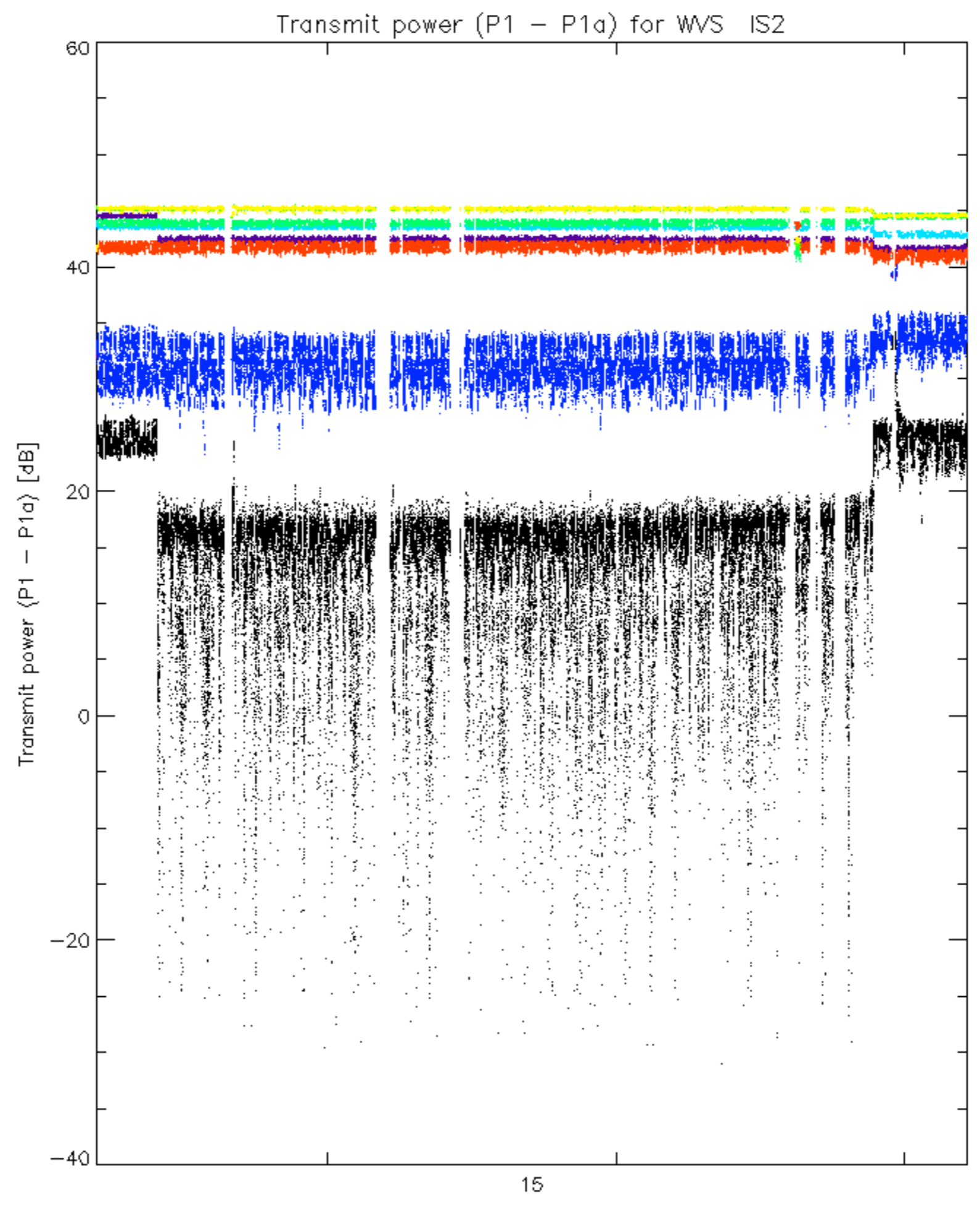




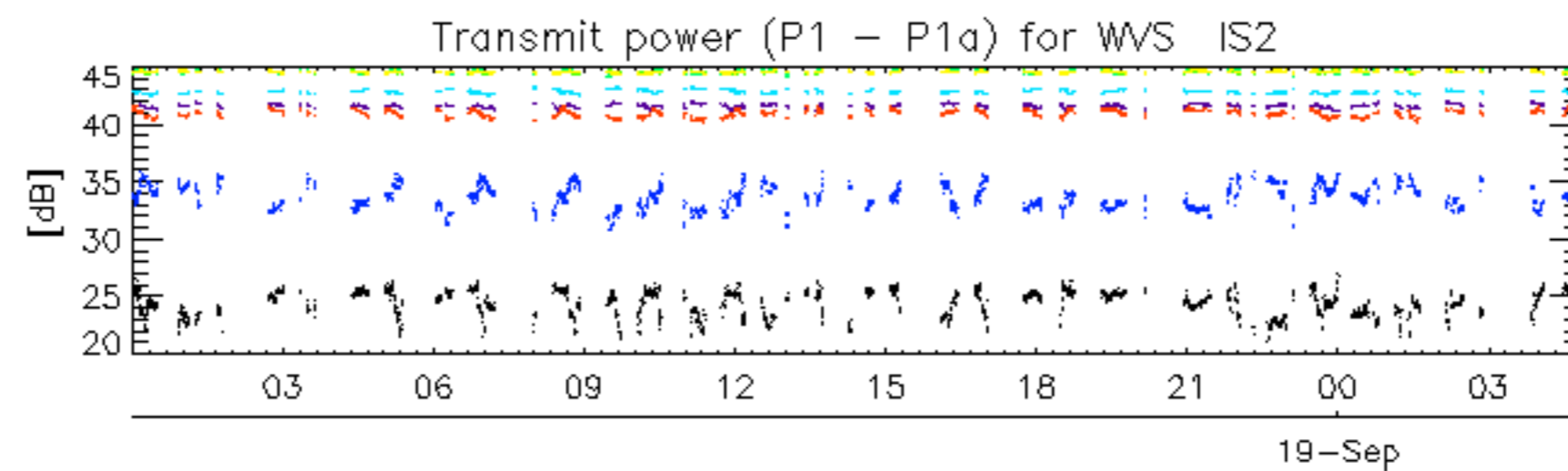
rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30



rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30



rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30



rows: _ 3 _ 7 _ 11 _ 15 _ 19 _ 22 _ 24 _ 30

No unavailabilities during the reported period.