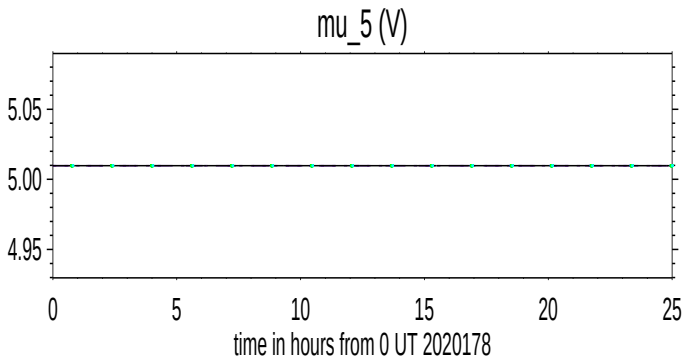
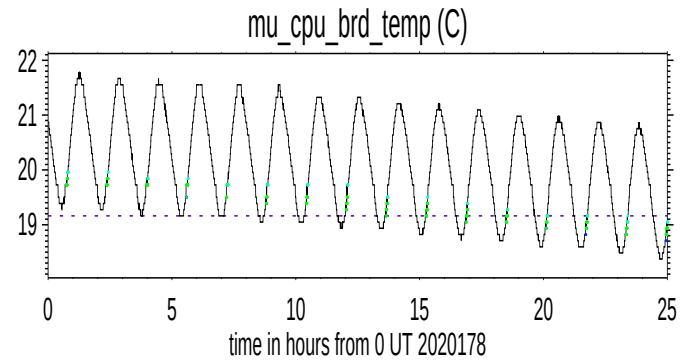
```
Information for      2020178
17:05:06.001: see_stat[1]: 7 internal error
```


mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2020178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22
21
20
19
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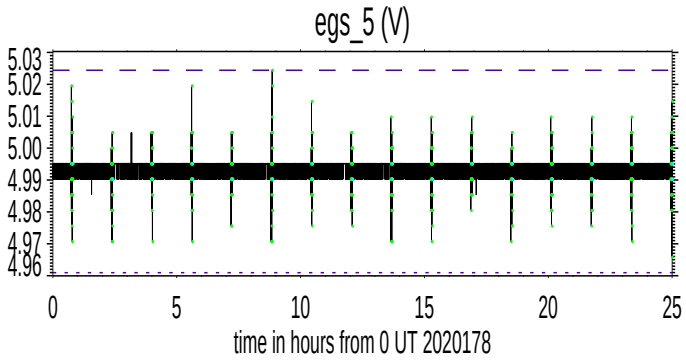
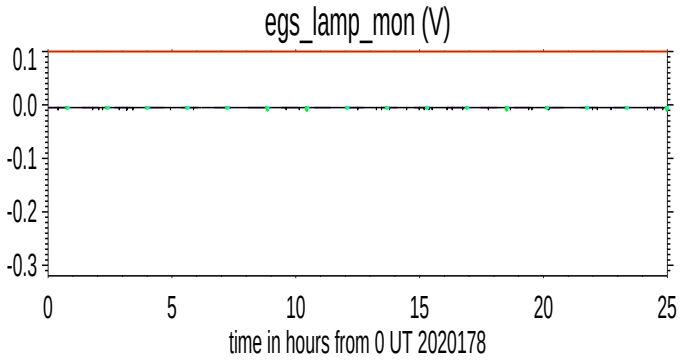
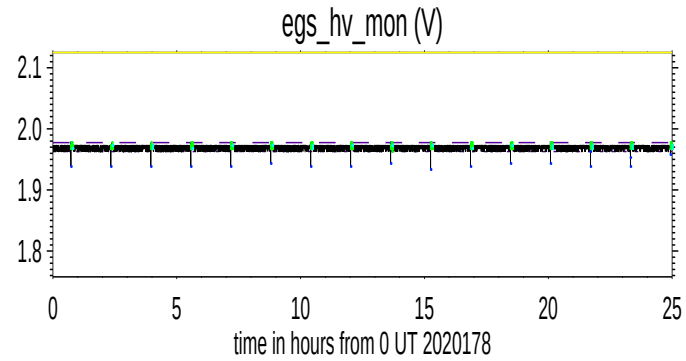
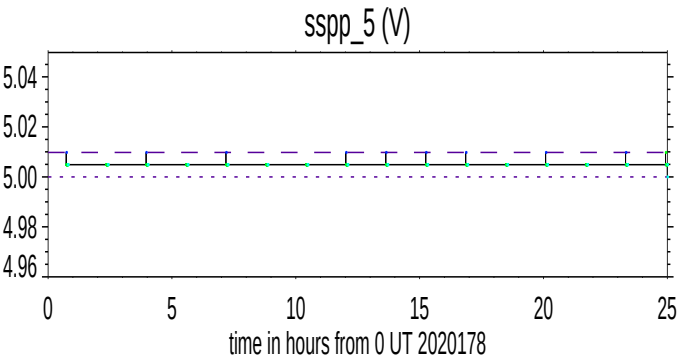
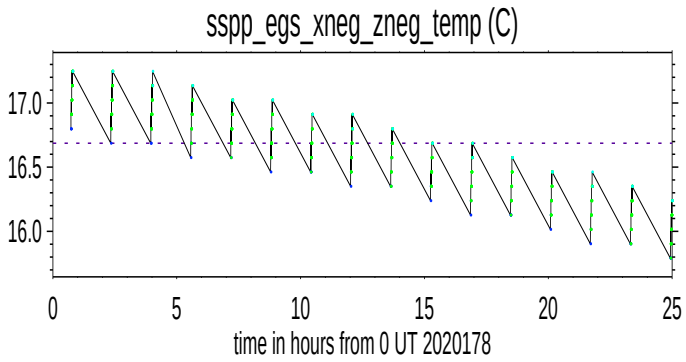
5
10
15
20
25
time in hours from 0 UT 2020178


egs_5 (V)
5.03
5.02
5.01
5.00
4.99
4.98
4.97
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_lamp_mon (V)
0.1
0.0
-0.1
-0.2
-0.3
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_hv_mon (V)
2.1
2.0
1.9
1.8
0
5
10
15
20
25
time in hours from 0 UT 2020178


sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020178


sspp_egs_xneg_zneg_temp (C)
17.0
16.5
16.0
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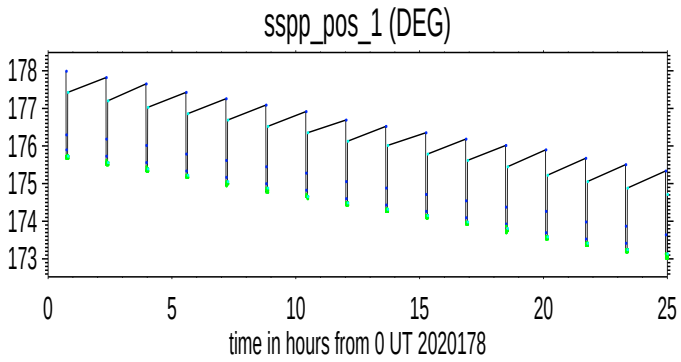
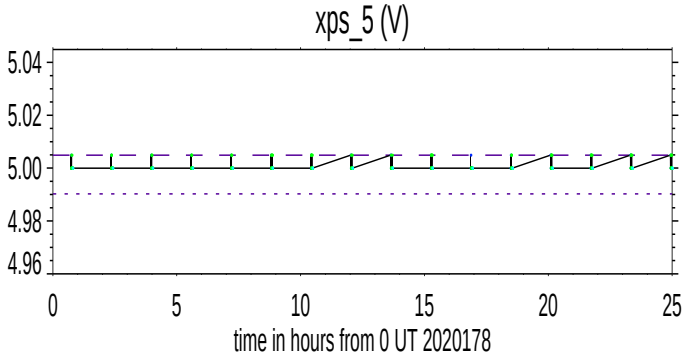
5
10
15
20
25
time in hours from 0 UT 2020178


sspp_pos_1 (DEG)
178
177
176
175
174
173
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_5 (V)
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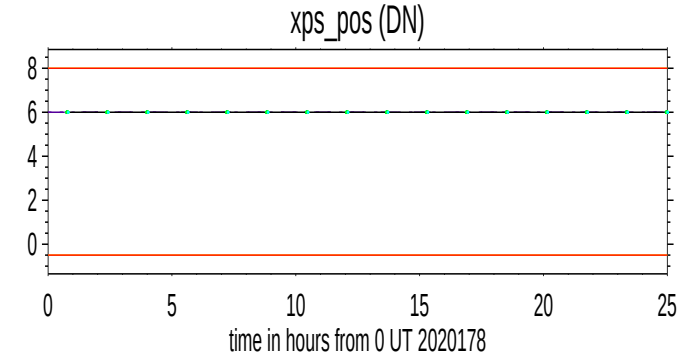
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_pos (DN)
8
6
4
2
0
0
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10
15
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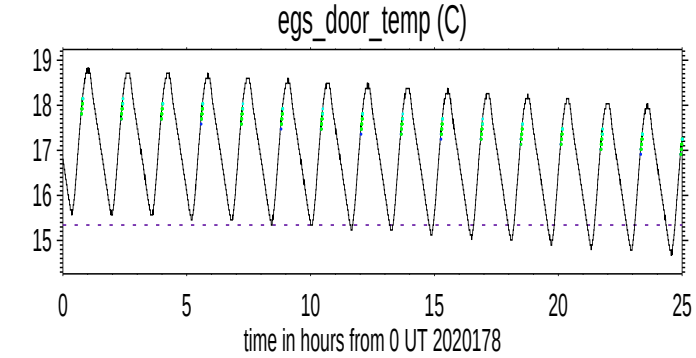
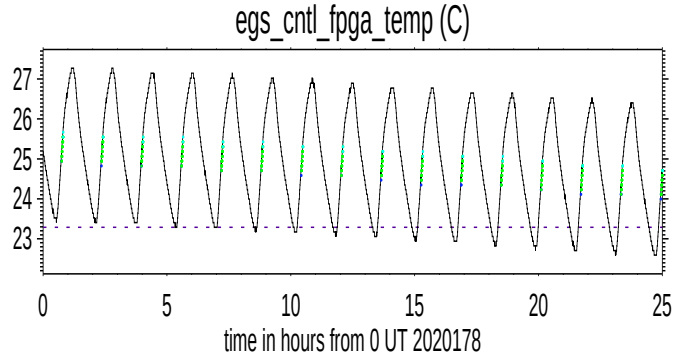
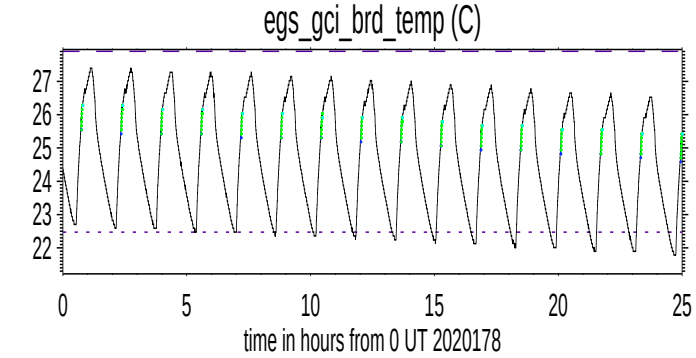
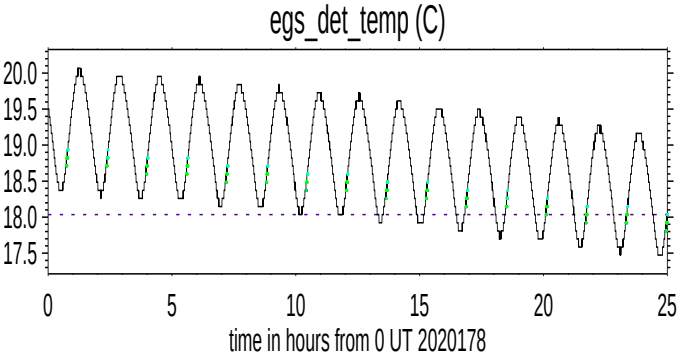
time in hours from 0 UT 2020178


egs_door_temp (C)
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_cntl_fpga_temp (C)
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_gci_brd_temp (C)
27
26
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_det_temp (C)
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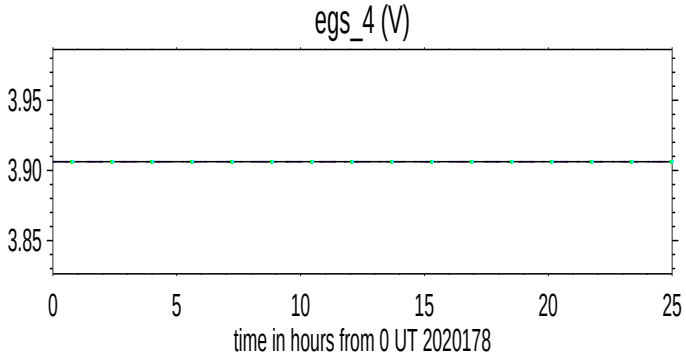
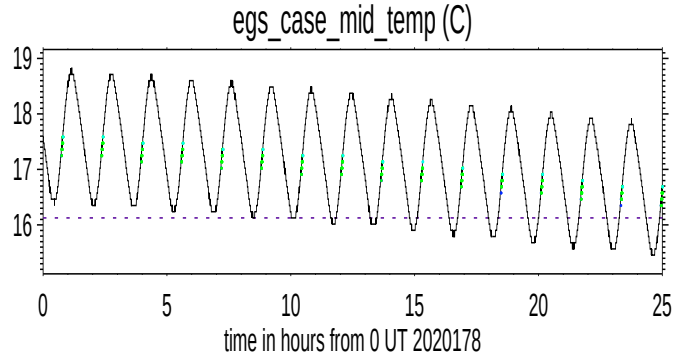
19.5
19.0
18.5
18.0
17.5
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020178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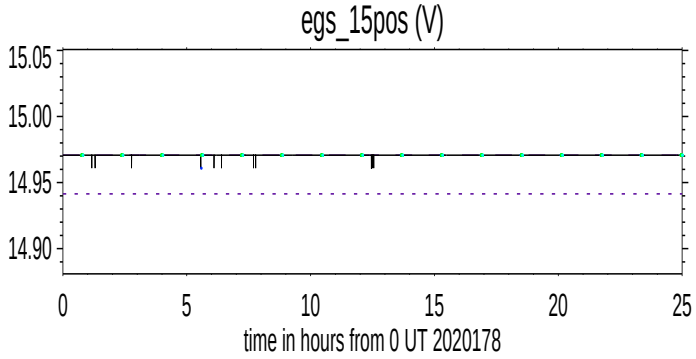
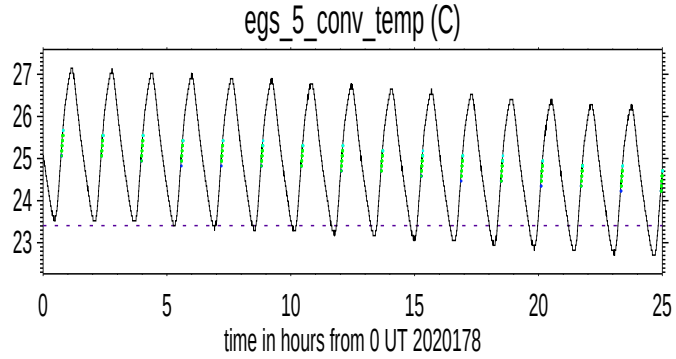
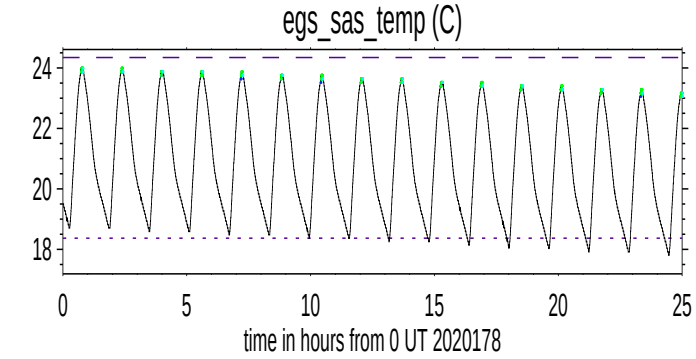
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_15pos (V)
15.05
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_5_conv_temp (C)
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2020178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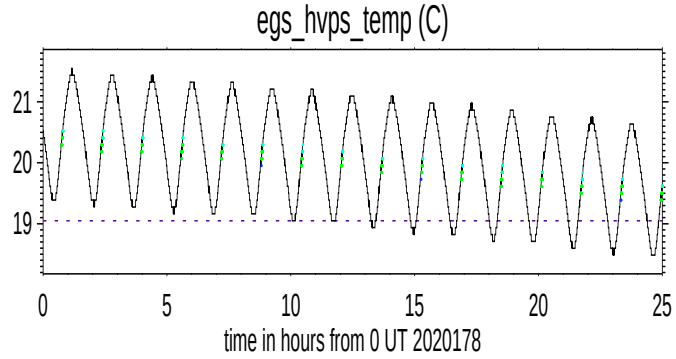
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_hvps_temp (C)
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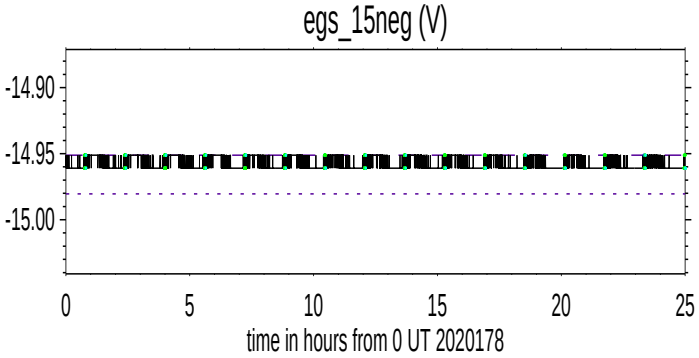
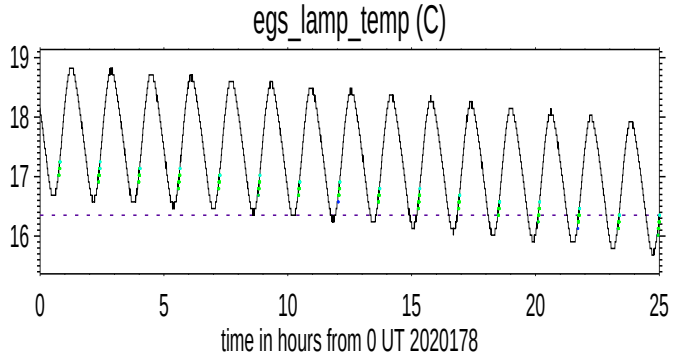
20
19
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020178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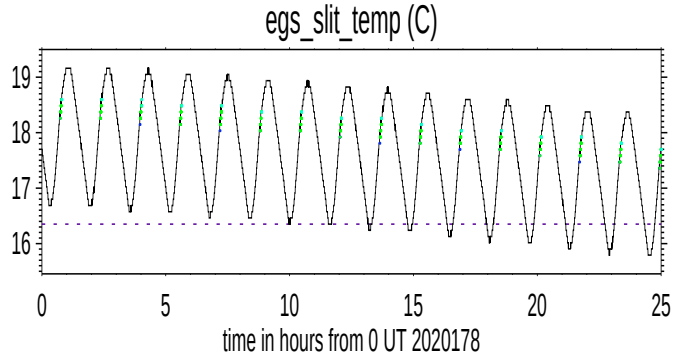
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2020178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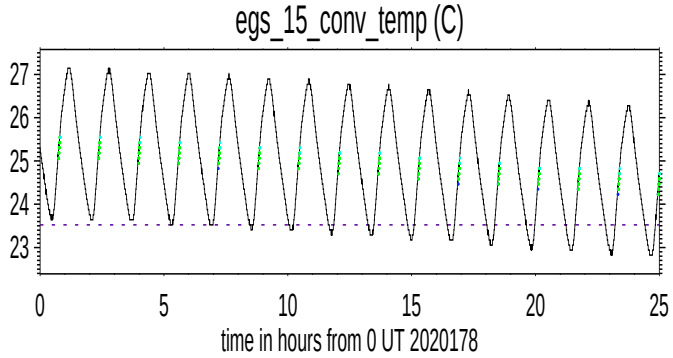
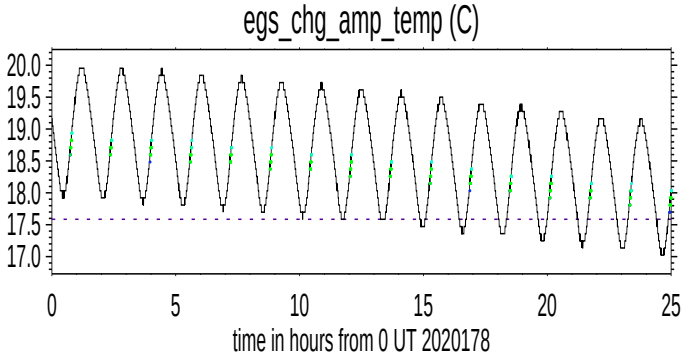
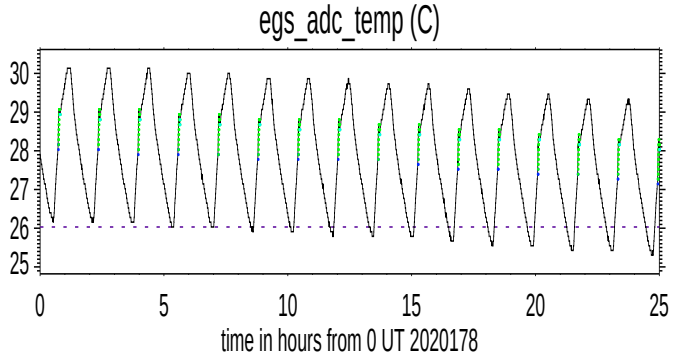
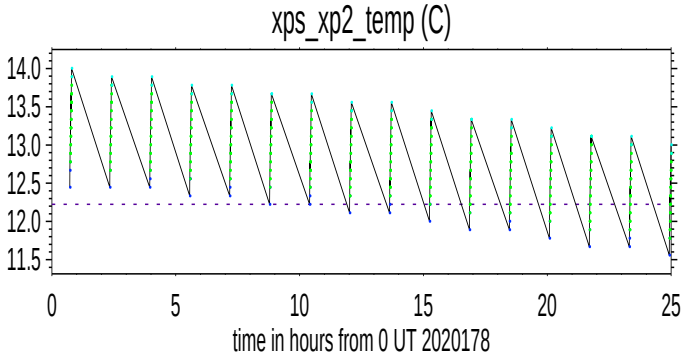
19
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_15_conv_temp (C)
27
26
25
24
23
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_chg_amp_temp (C)
20.0
19.5
19.0
18.5
18.0
17.5
17.0
0
5
10
15
20
25
time in hours from 0 UT 2020178


egs_adc_temp (C)
30
29
28
27
26
25
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_xp2_temp (C)
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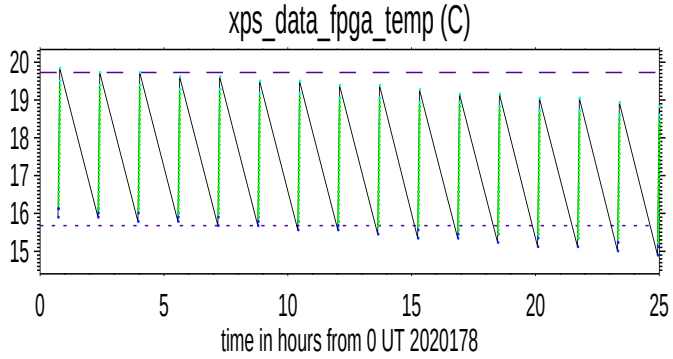
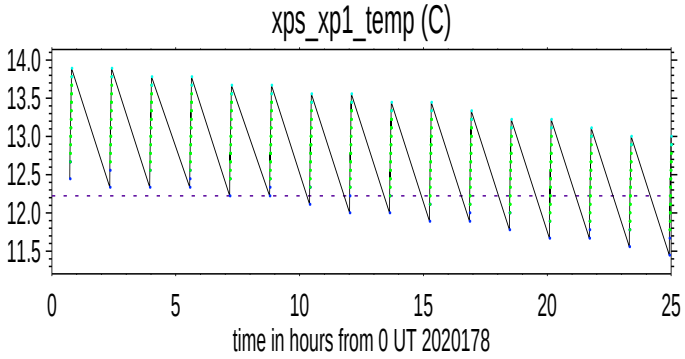
13.5
13.0
12.5
12.0
11.5
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_data_fpga_temp (C)
20
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_xp1_temp (C)
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13.0
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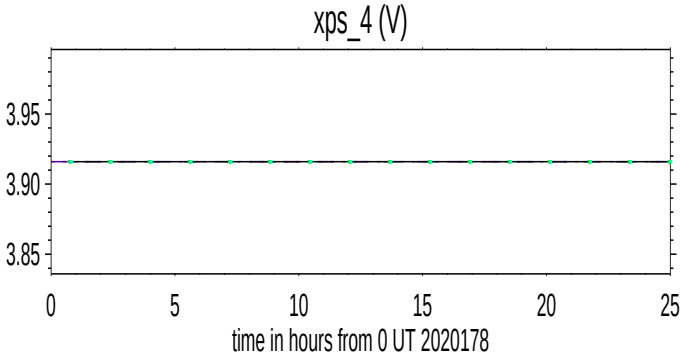
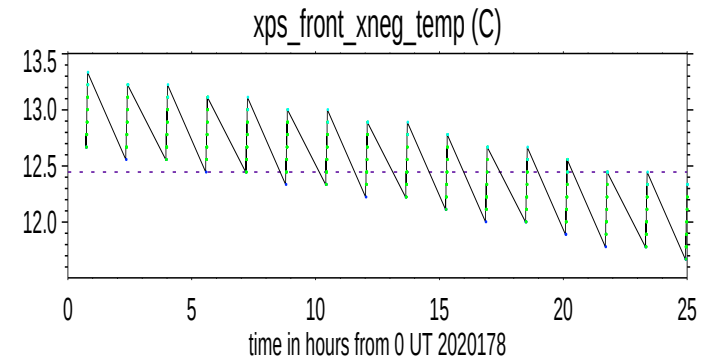
12.0
11.5
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020178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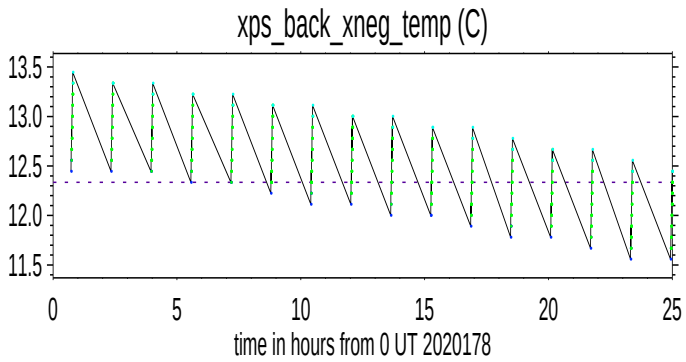
13.0
12.5
12.0
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_back_xneg_temp (C)
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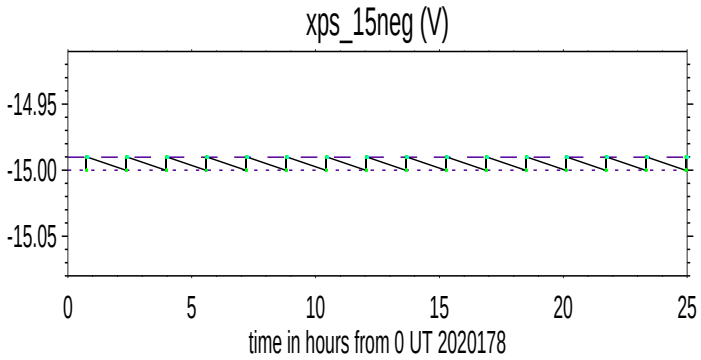
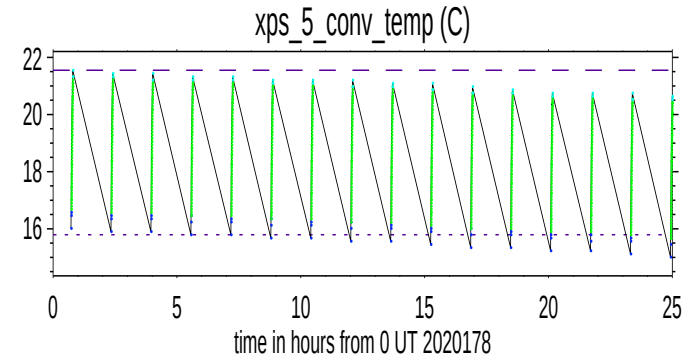
13.0
12.5
12.0
11.5
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_15neg (V)
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_5_conv_temp (C)
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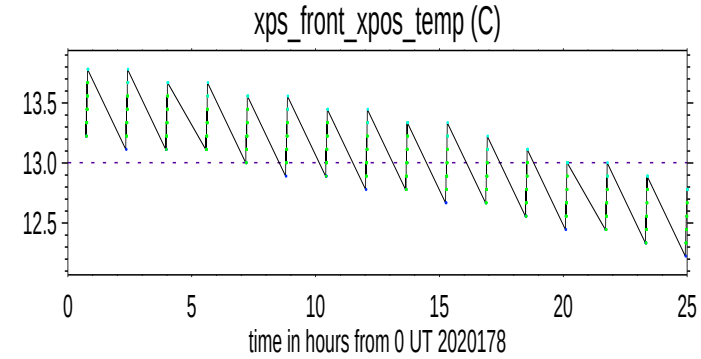
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_front_xpos_temp (C)
13.5
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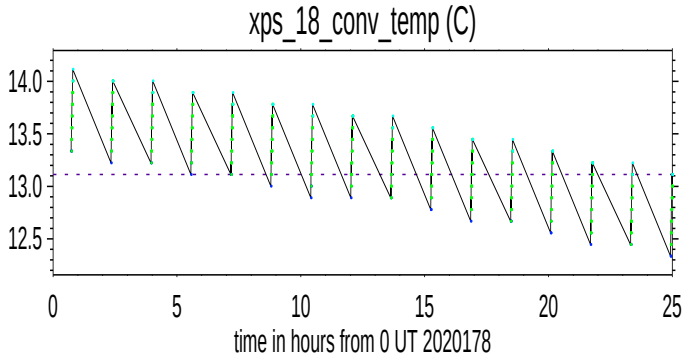
12.5
0
5
10
15
20
25
time in hours from 0 UT 2020178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13.0
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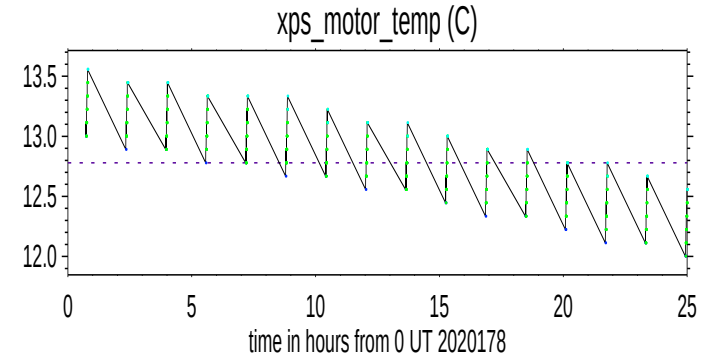
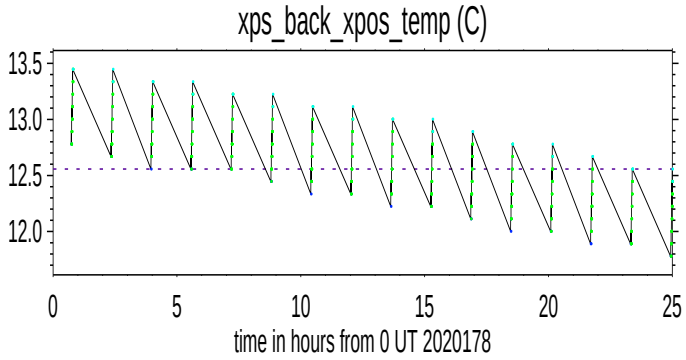
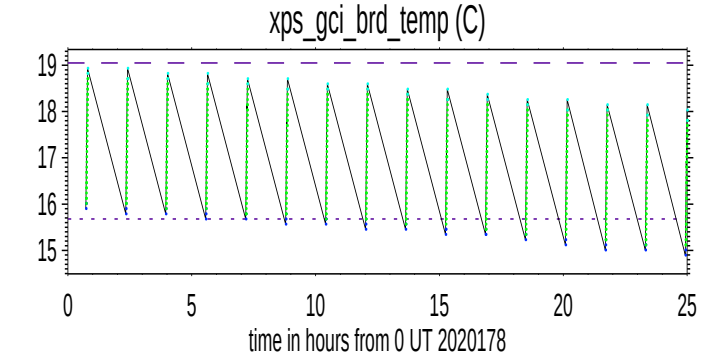
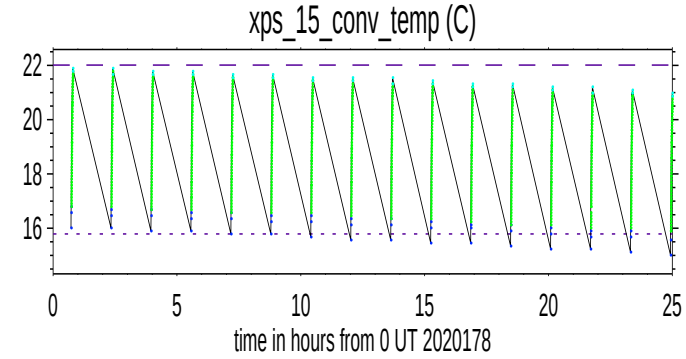
10
15
20
25
time in hours from 0 UT 2020178


xps_motor_temp (C)
13.5
13.0
12.5
12.0
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_back_xpos_temp (C)
13.5
13.0
12.5
12.0
0
5
10
15
20
25
time in hours from 0 UT 2020178


xps_gci_brd_temp (C)
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020178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22
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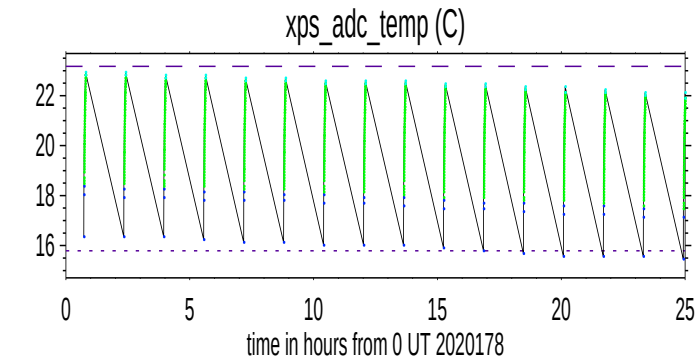
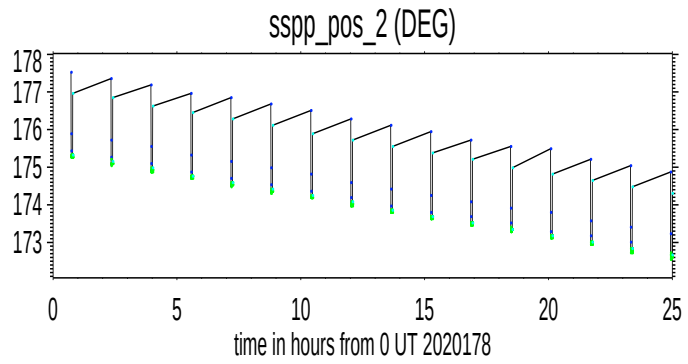
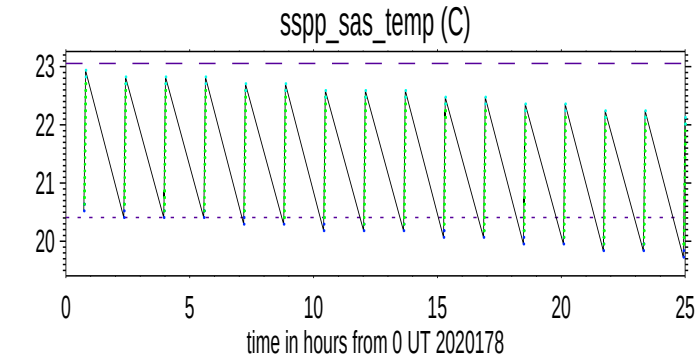
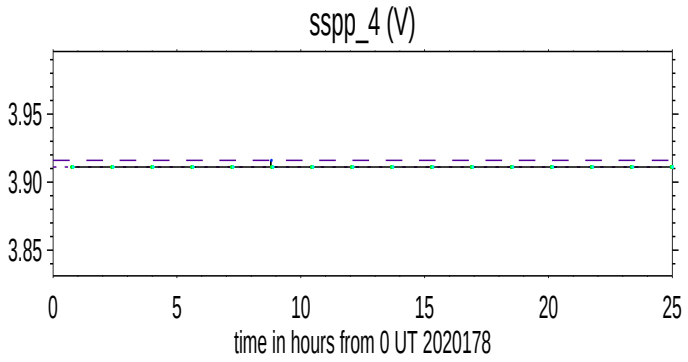
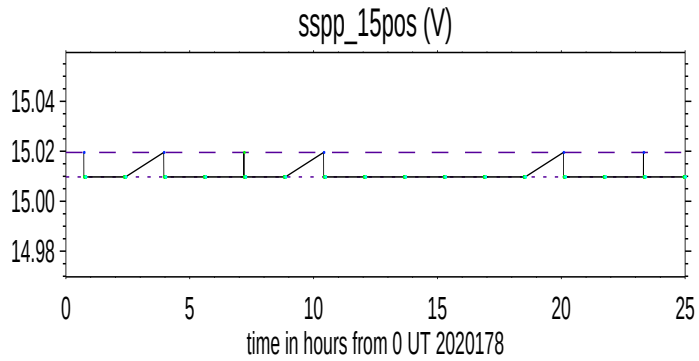
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020178

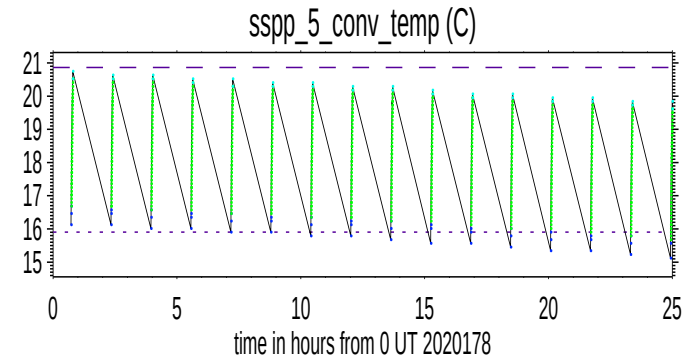

xps_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020178

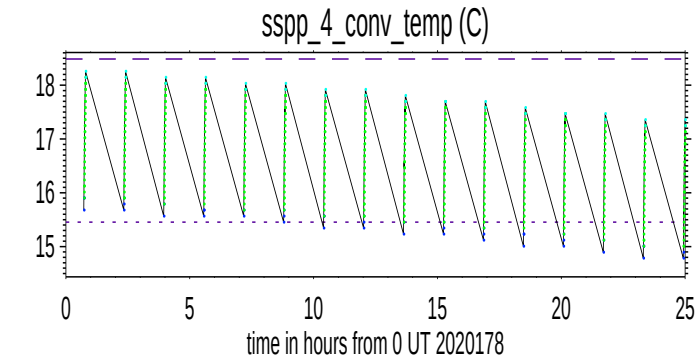

sspp_pos_2 (DEG)
178
177
176
175
174
173
0
5
10
15
20
25
time in hours from 0 UT 2020178

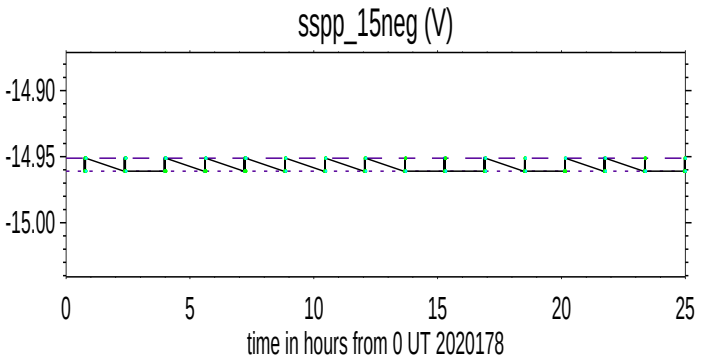

sspp_sas_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2020178

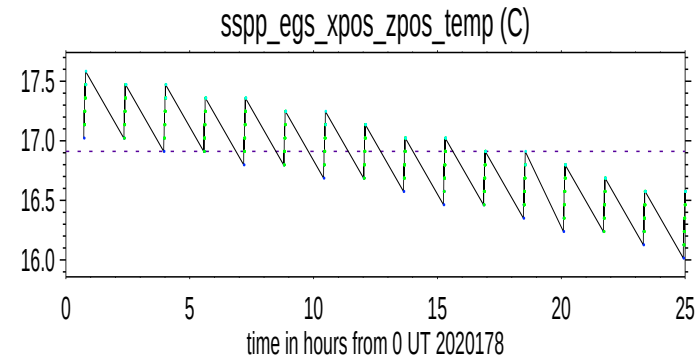

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020178

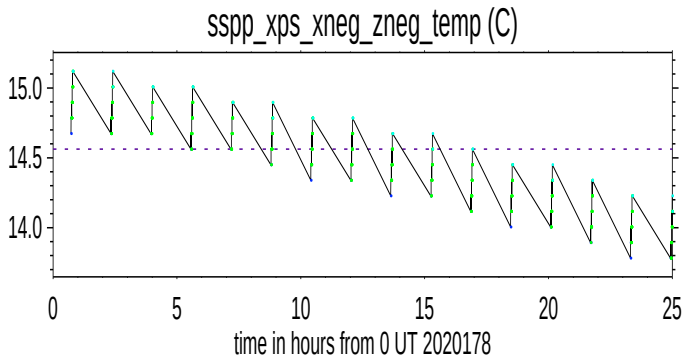

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2020178

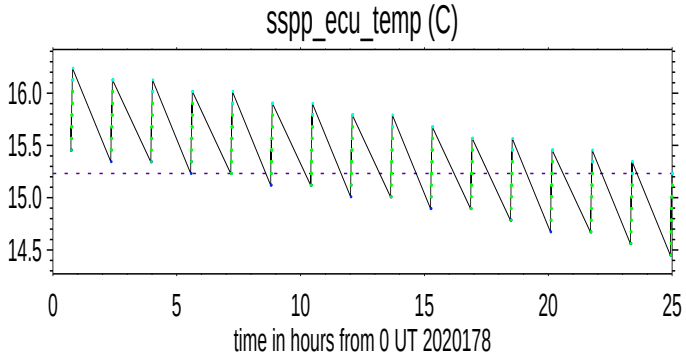

sspp_5_conv_temp (C)
21
20
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020178

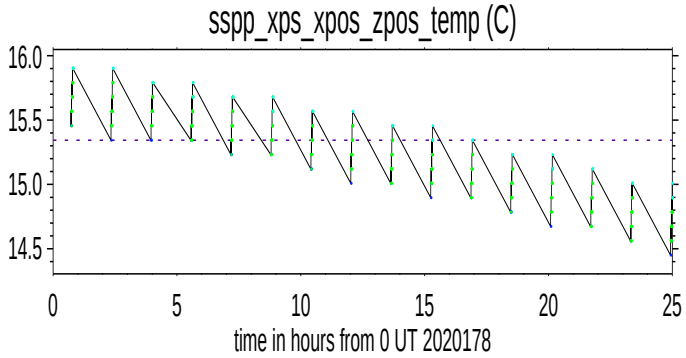

sspp_4_conv_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020178

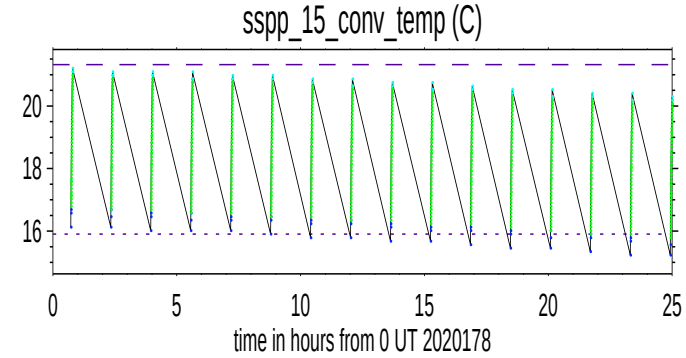

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020178

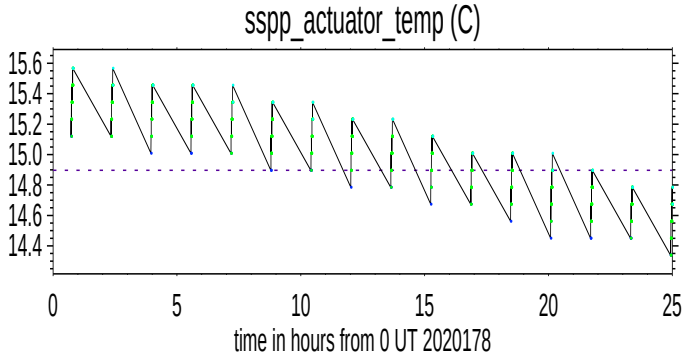

sspp_egs_xpos_zpos_temp (C)
17.5
17.0
16.5
16.0
0
5
10
15
20
25
time in hours from 0 UT 2020178

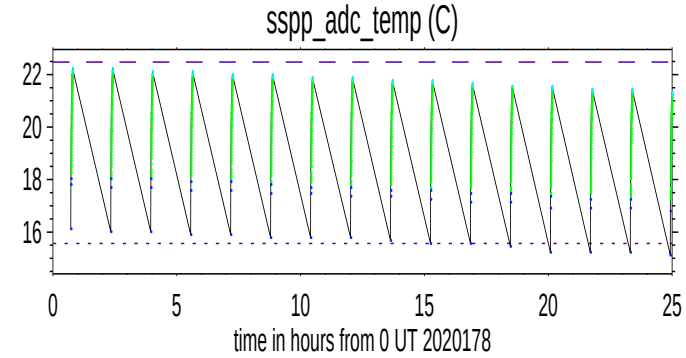

sspp_xps_xneg_zneg_temp (C)
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020178

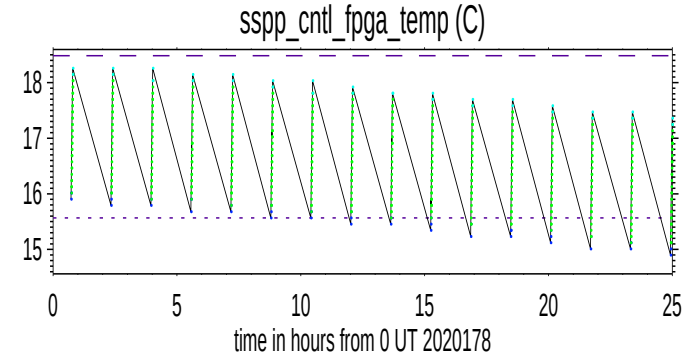

sspp_ecu_temp (C)
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2020178

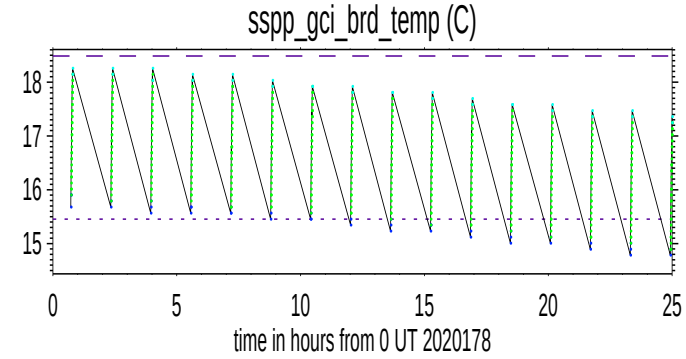

sspp_xps_xpos_zpos_temp (C)
16.0
15.5
15.0
14.5
0
5
10
15
20
25
time in hours from 0 UT 2020178

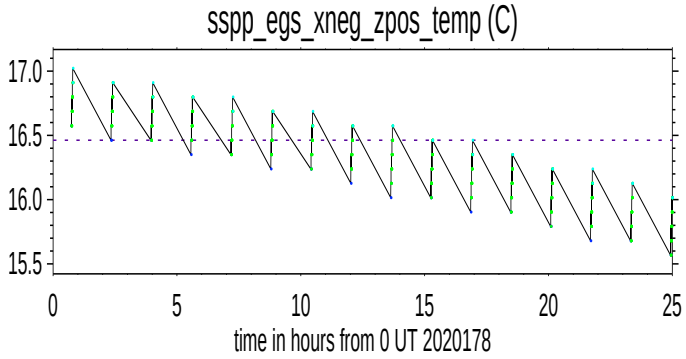

sspp_15_conv_temp (C)
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020178

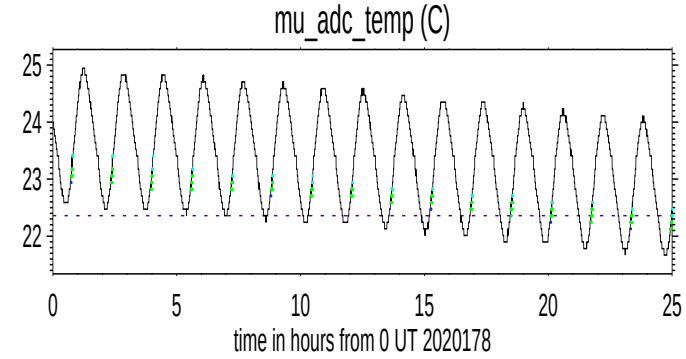

sspp_actuator_temp (C)
15.6
15.4
15.2
15.0
14.8
14.6
14.4
0
5
10
15
20
25
time in hours from 0 UT 2020178

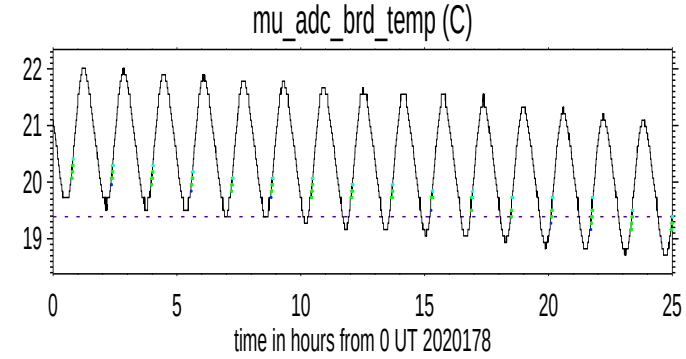

sspp_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020178

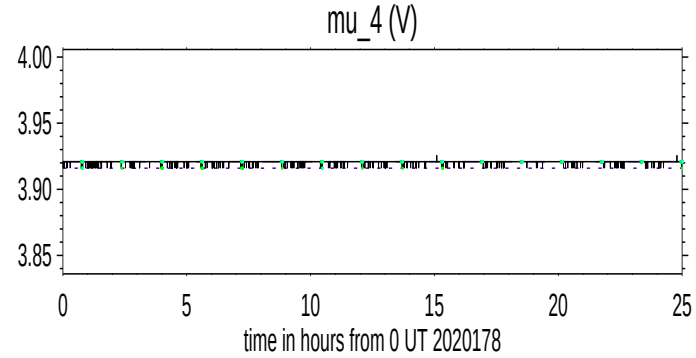

sspp_cntl_fpga_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020178

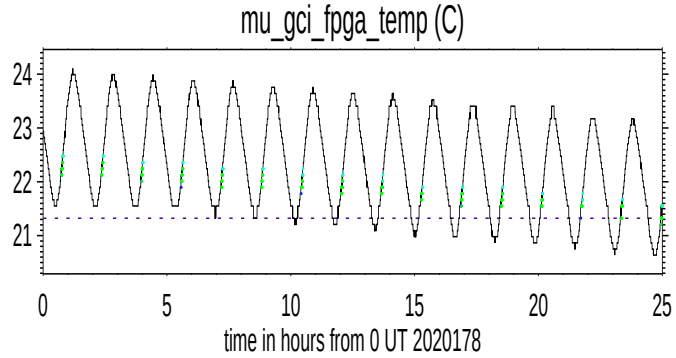

sspp_gci_brd_temp (C)
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020178

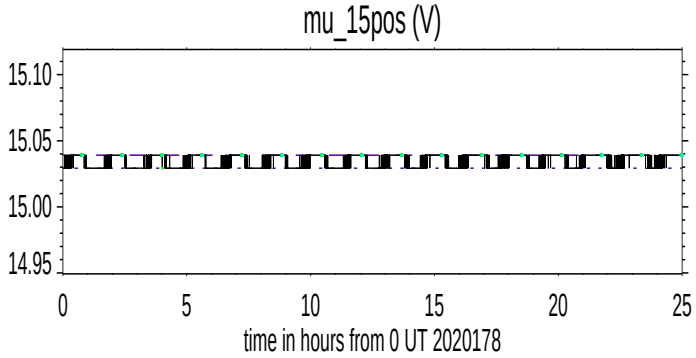

sspp_egs_xneg_zpos_temp (C)
17.0
16.5
16.0
15.5
0
5
10
15
20
25
time in hours from 0 UT 2020178

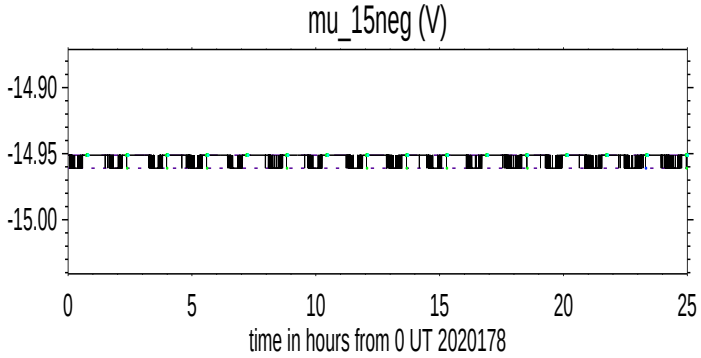

mu_adc_temp (C)
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2020178

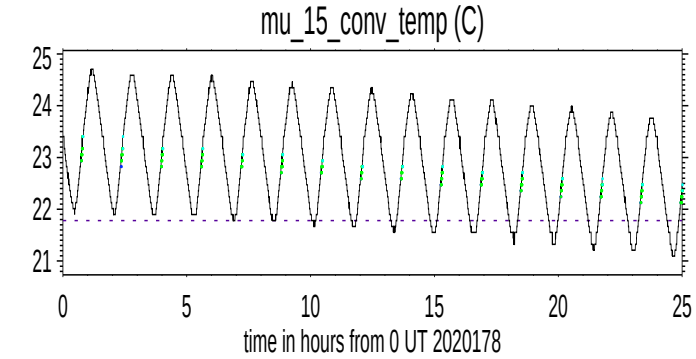

mu_adc_brd_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2020178

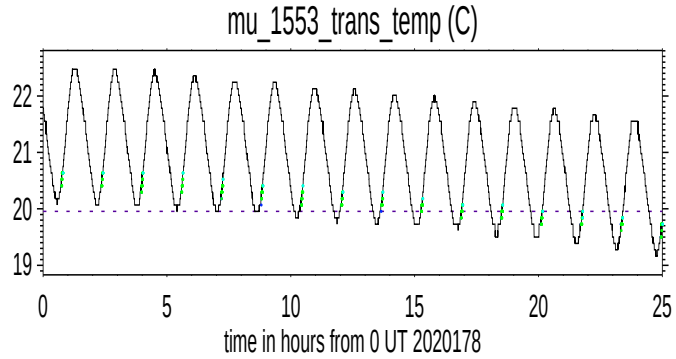

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020178

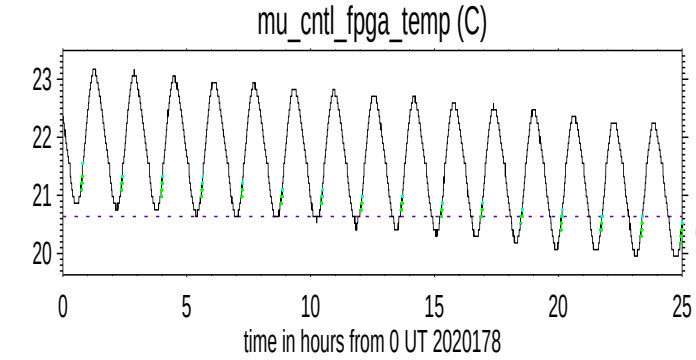

mu_gci_fpga_temp (C)
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2020178

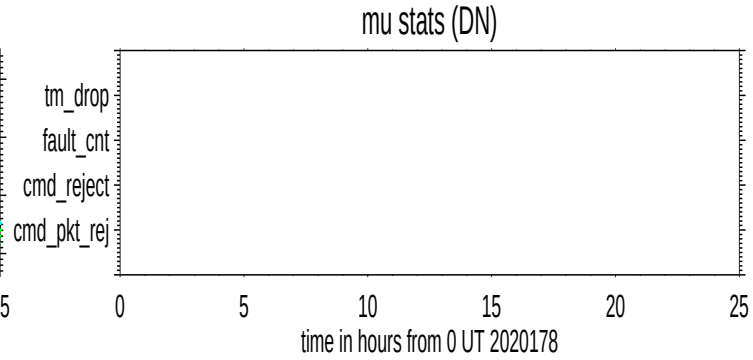

mu_15pos (V)
15.10
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2020178

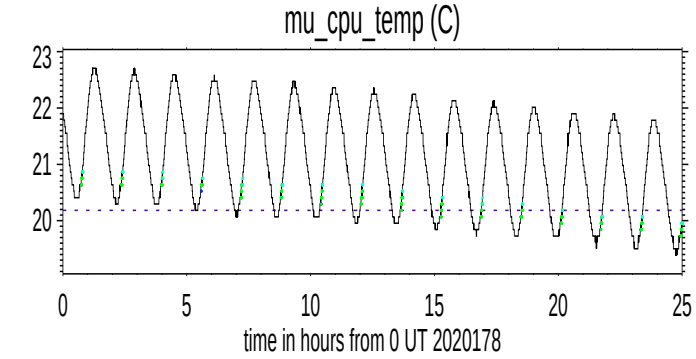

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020178

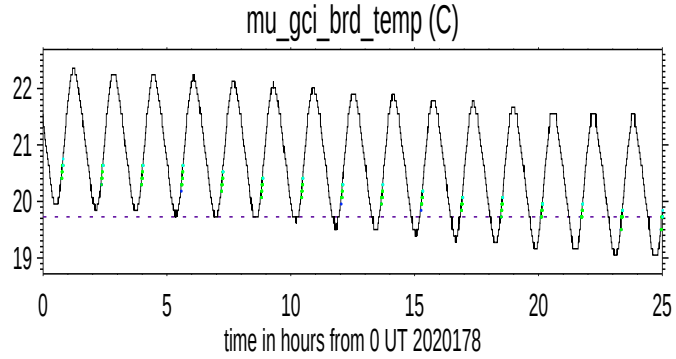

mu_15_conv_temp (C)
25
24
23
22
21
0
5
10
15
20
25
time in hours from 0 UT 2020178

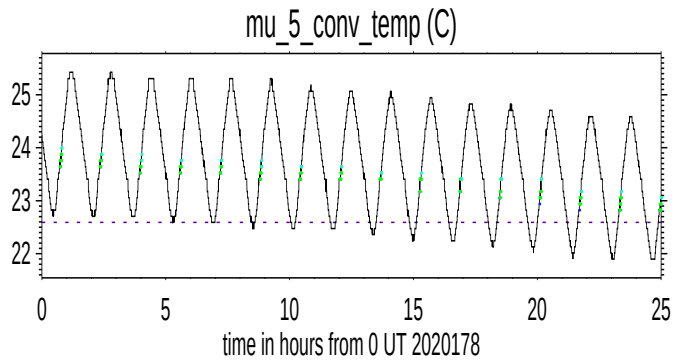

mu_1553_trans_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2020178

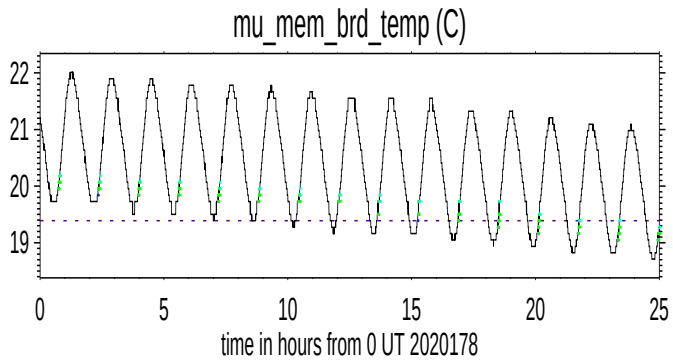

mu_cntl_fpga_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2020178

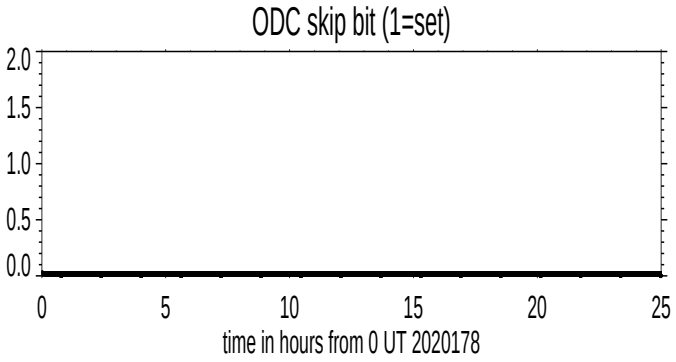

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2020178

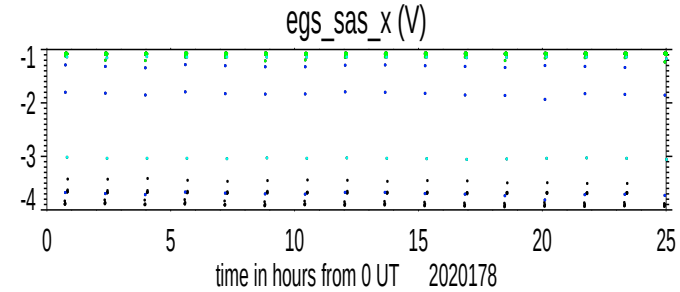

mu_cpu_temp (C)
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2020178

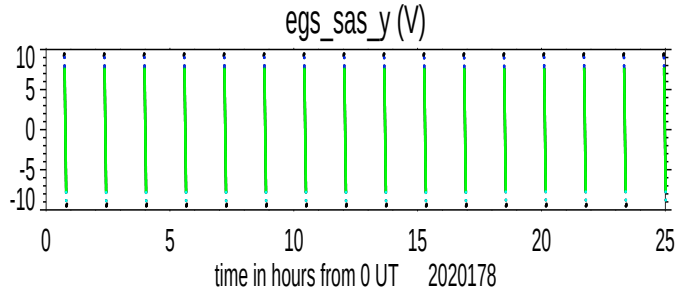

mu_gci_brd_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2020178

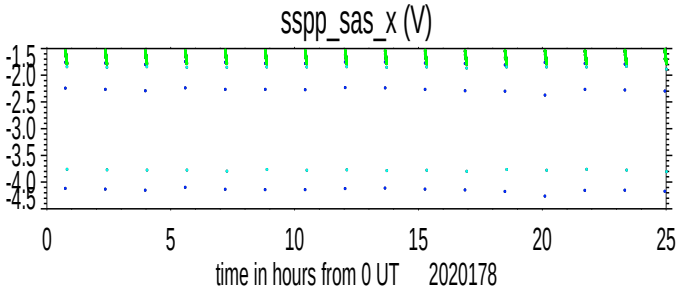

mu_5_conv_temp (C)
25
24
23
22
0
5
10
15
20
25
time in hours from 0 UT 2020178

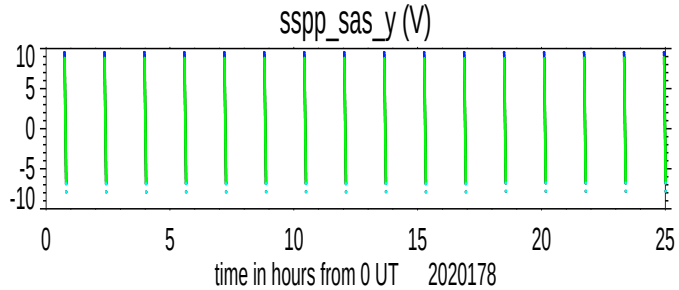

mu_mem_brd_temp (C)
22
21
20
19
0
5
10
15
20
25
time in hours from 0 UT 2020178

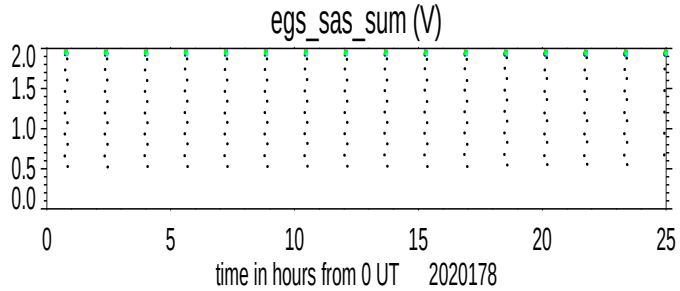

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020178

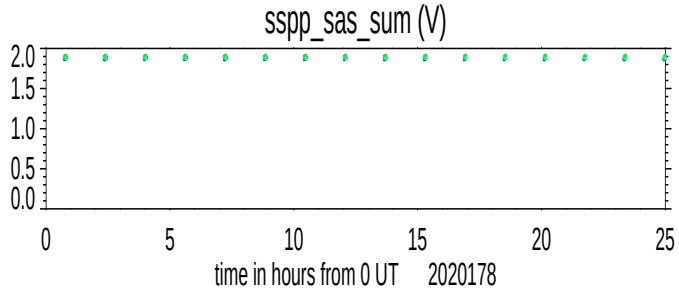

egs_sas_x (V)
-1
-2
-3
-4
0
5
10
15
20
25
time in hours from 0 UT 2020178

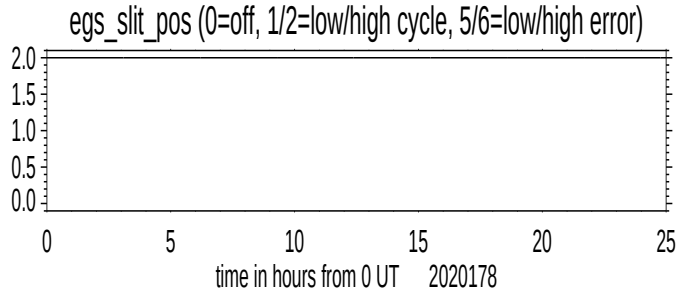

egs_sas_y (V)
10
5
0
-5
-10
0
5
10
15
20
25
time in hours from 0 UT 2020178

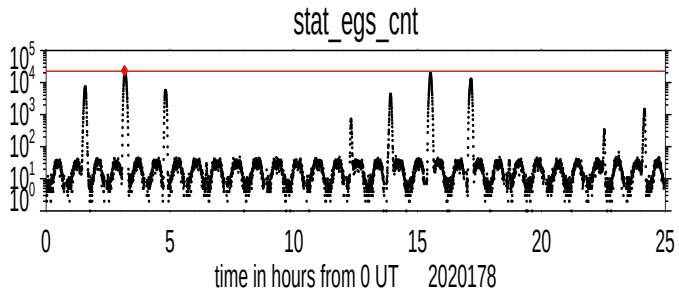

sspp_sas_x (V)
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
-4.5
0
5
10
15
20
25
time in hours from 0 UT 2020178

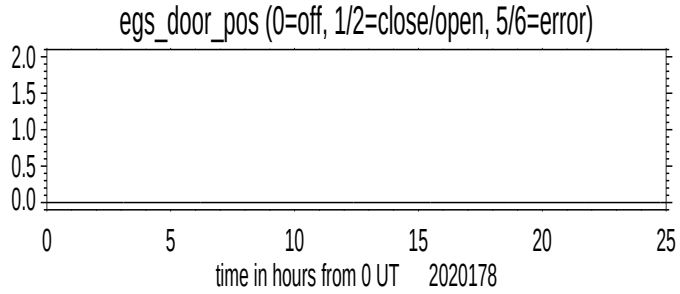

sspp_sas_y (V)
10
5
0
-5
-10
0
5
10
15
20
25
time in hours from 0 UT 2020178

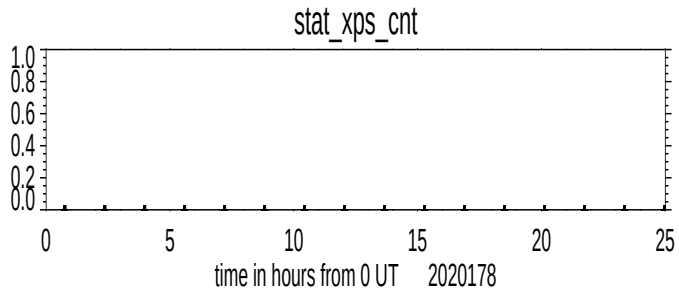

egs_sas_sum (V)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020178

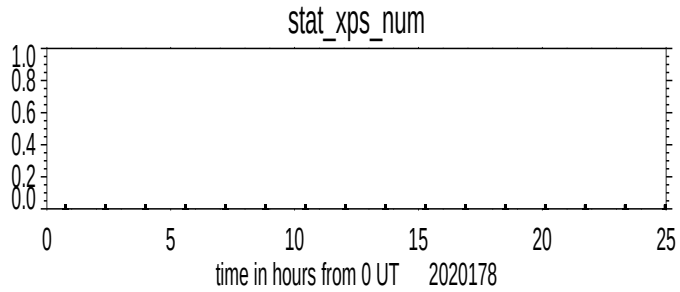

sspp_sas_sum (V)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020178

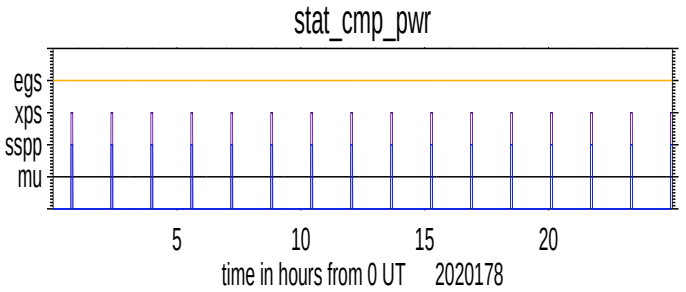

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020178


stat_egs_cnt
10^5
10^4
10^3
10^2
10^1
10^0
0
5
10
15
20
25
time in hours from 0 UT 2020178

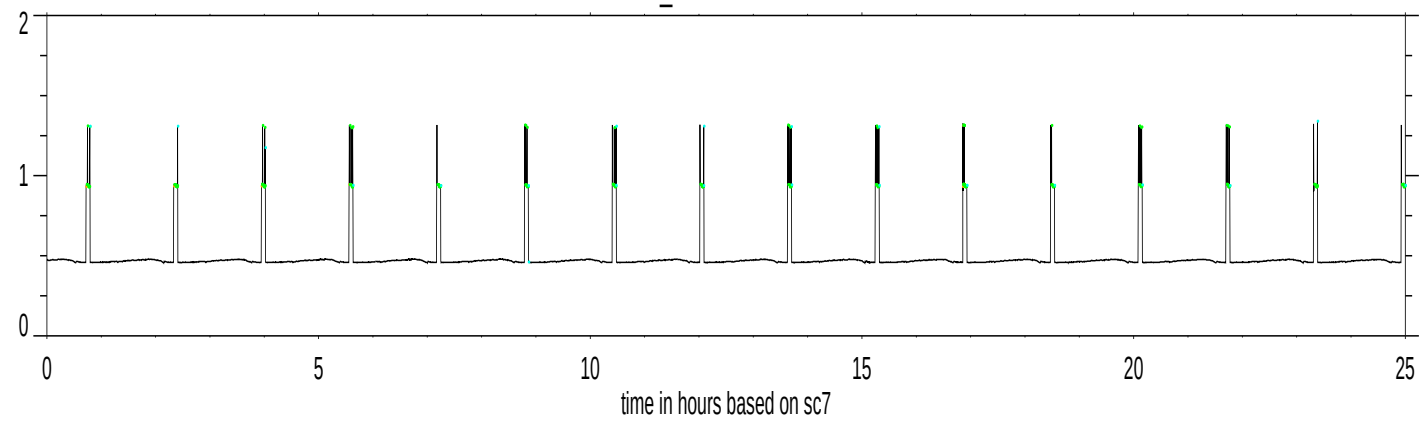

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020178


stat_xps_cnt
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020178

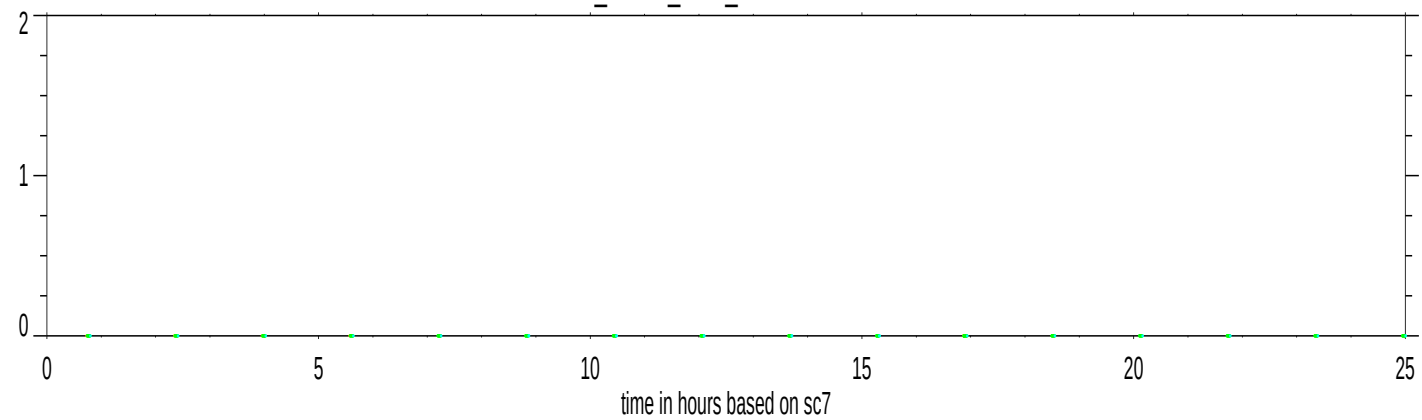

stat_xps_num
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020178


stat_cmp_pwr
egs
xps
sspp
mu
5
10
15
20
time in hours from 0 UT 2020178

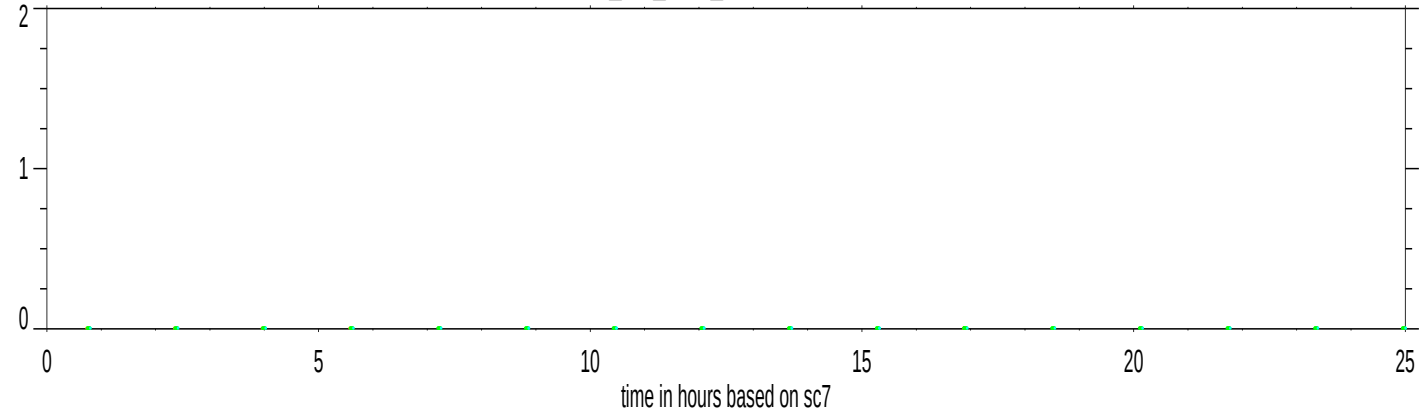
SEE_CUR 2020178



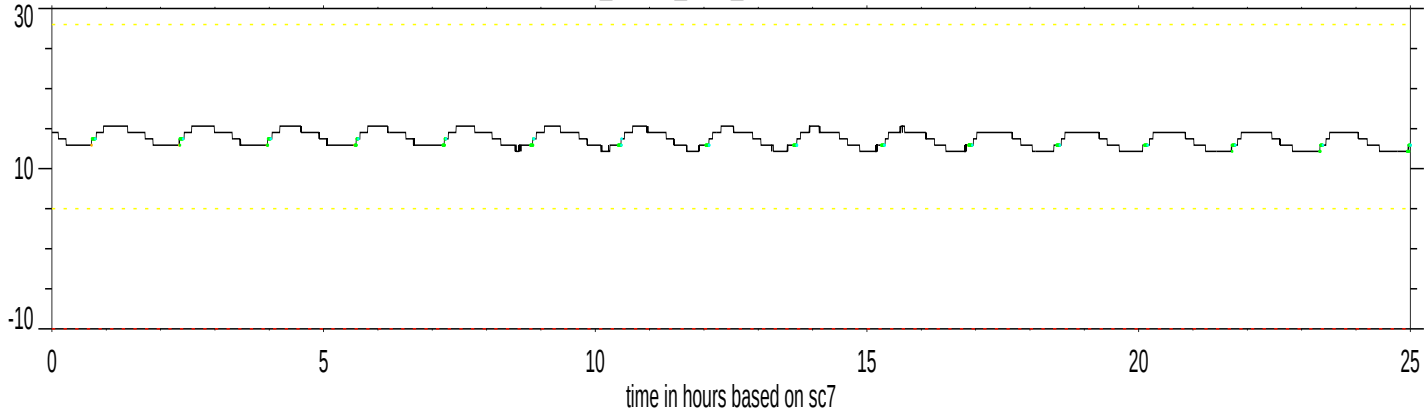
SEE_SURV_HTR_CUR 2020178

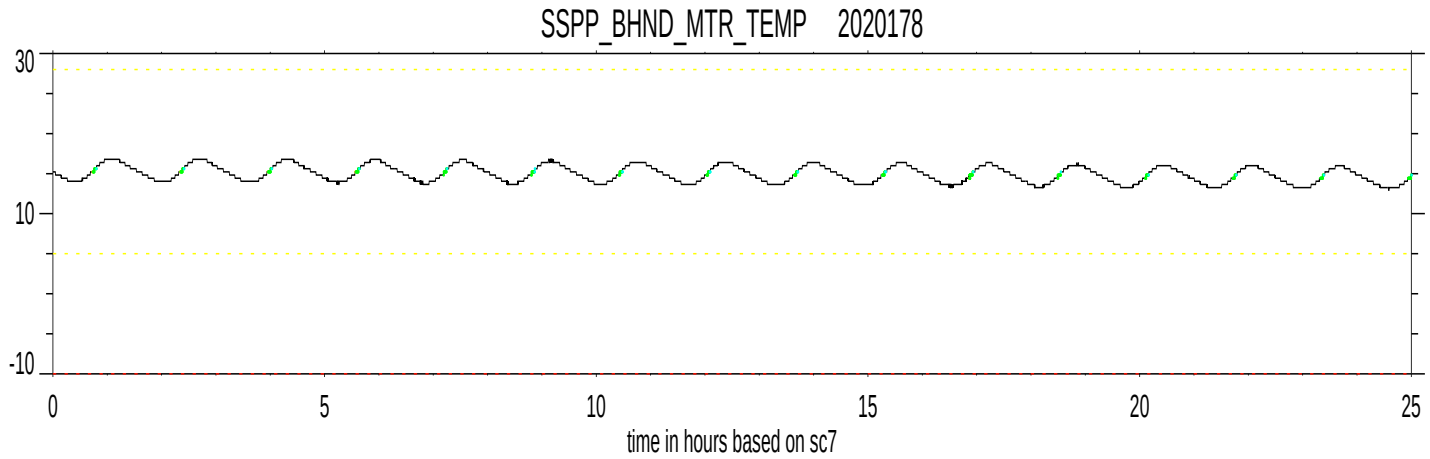


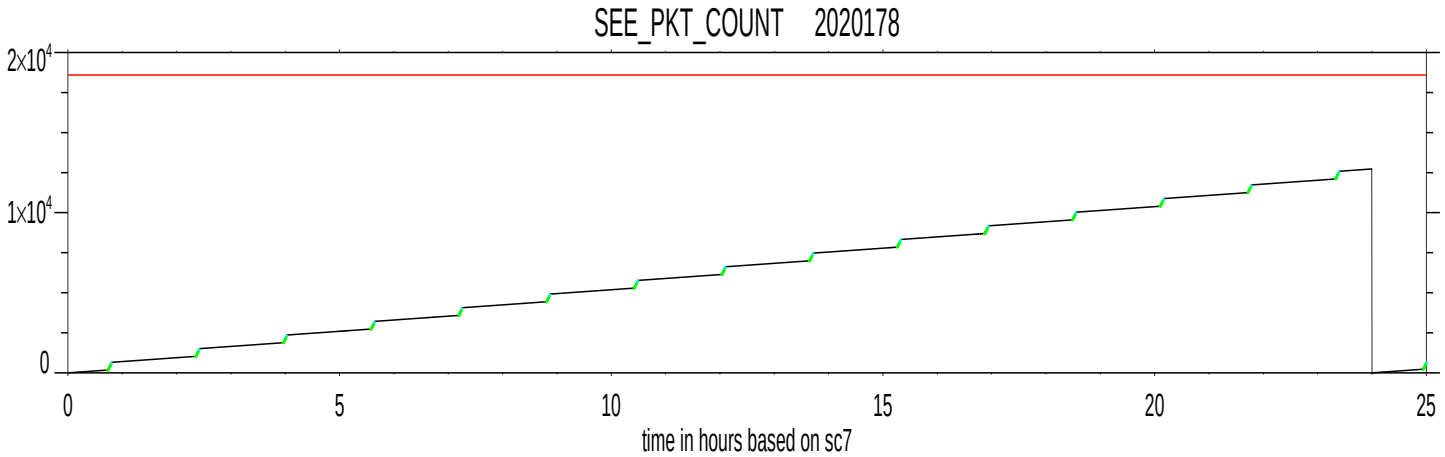
SEE_OP_HTR_CUR 2020178

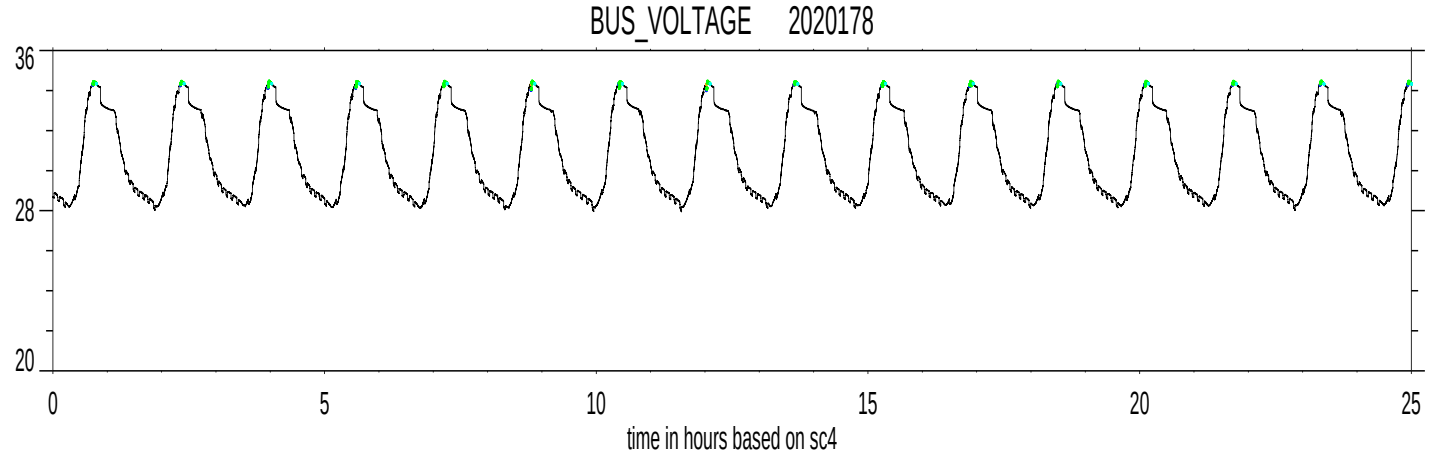


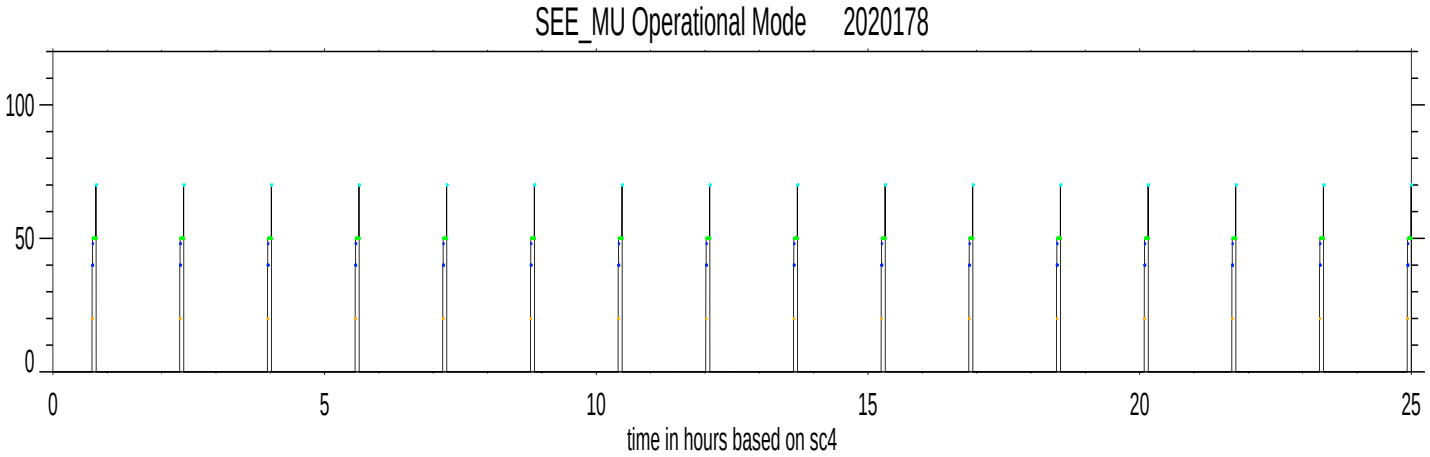
SSPP_BHND_XPS_TEMP 2020178

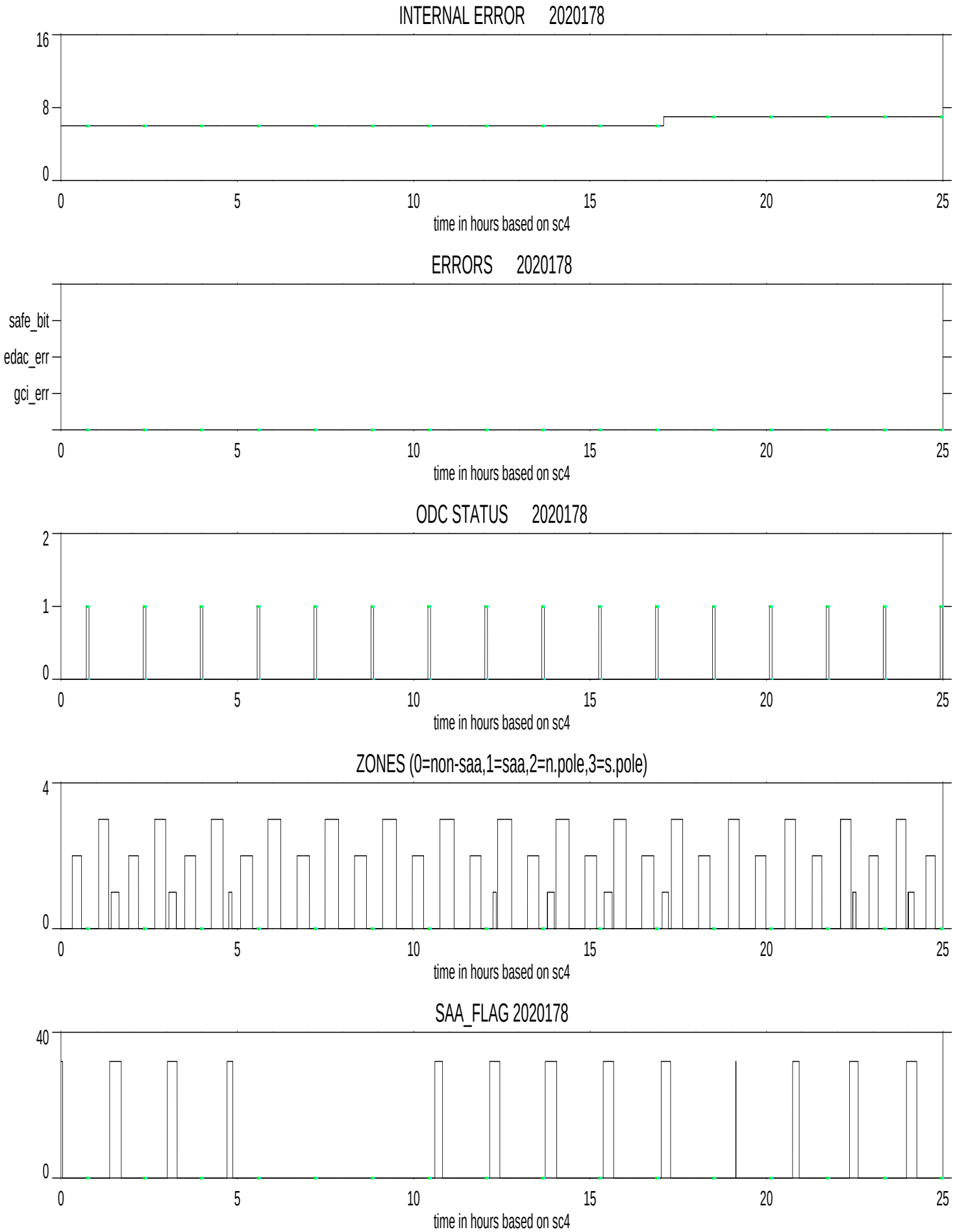


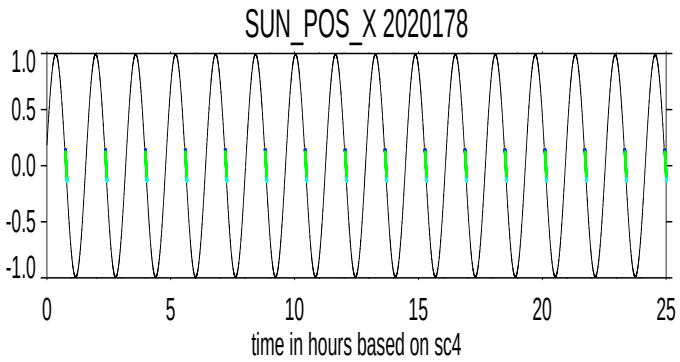

SSPP_BHND_MTR_TEMP 2020178
30
10
-10
0
5
10
15
20
25
time in hours based on sc7

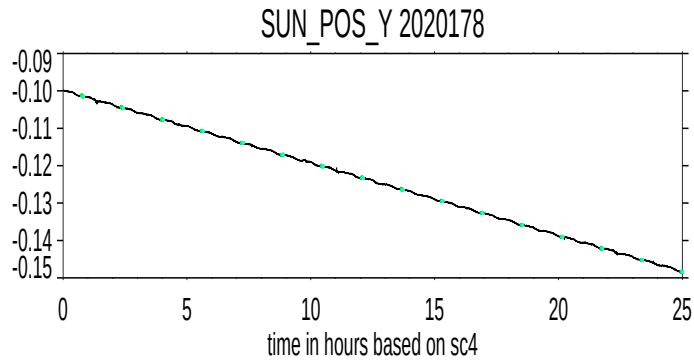

SEE_PKT_COUNT 2020178
2x10^4
1x10^4
0
0
5
10
15
20
25
time in hours based on sc7

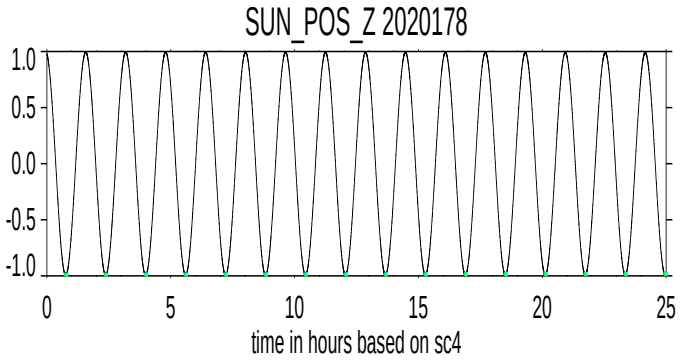

BUS_VOLTAGE 2020178
36
28
20
0
5
10
15
20
25
time in hours based on sc4

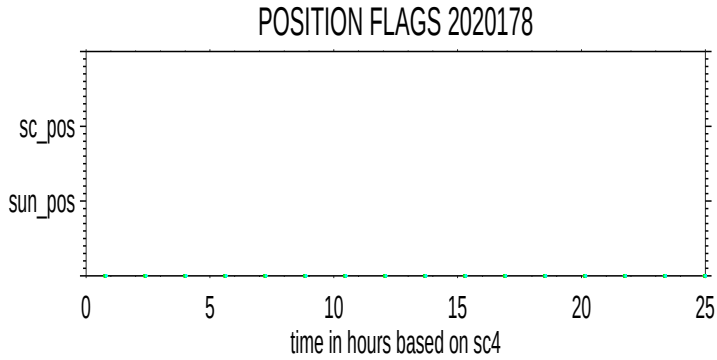

SEE_MU Operational Mode 2020178
100
50
0
0
5
10
15
20
25
time in hours based on sc4

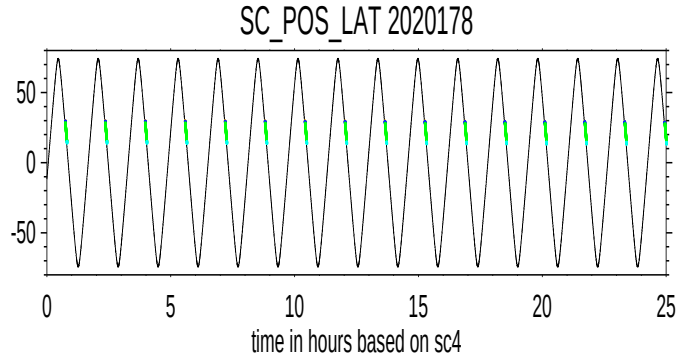

INTERNAL ERROR 2020178
16
8
0
0
5
10
15
20
25
time in hours based on sc4
ERRORS 2020178
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4
ODC STATUS 2020178
2
1
0
0
5
10
15
20
25
time in hours based on sc4
ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4
SAA_FLAG 2020178
40
0
0
5
10
15
20
25
time in hours based on sc4

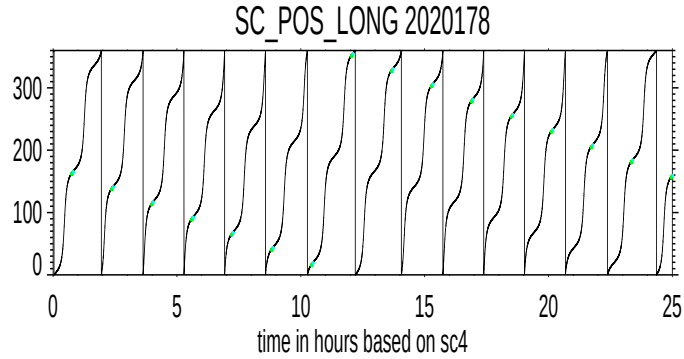

SUN_POS_X 2020178
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

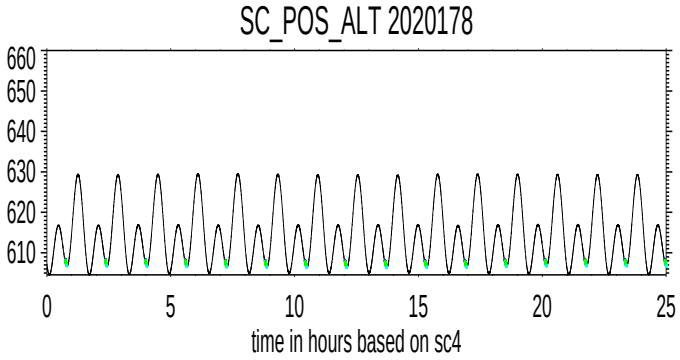

SUN_POS_Y 2020178
-0.09
-0.10
-0.11
-0.12
-0.13
-0.14
-0.15
0
5
10
15
20
25
time in hours based on sc4

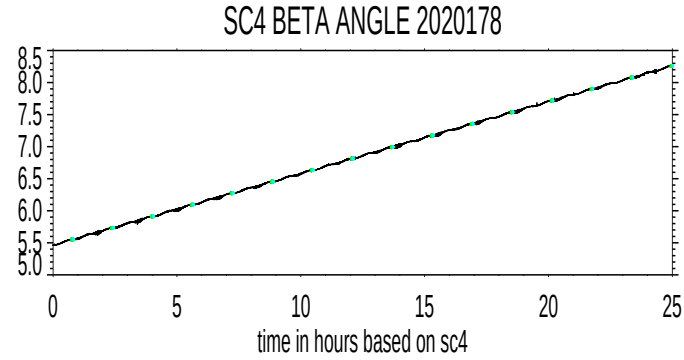

SUN_POS_Z 2020178
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2020178
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2020178
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2020178
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2020178
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2020178
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
0
5
10
15
20
25
time in hours based on sc4