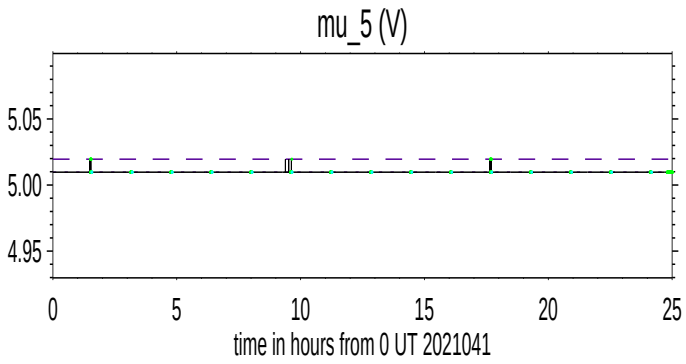
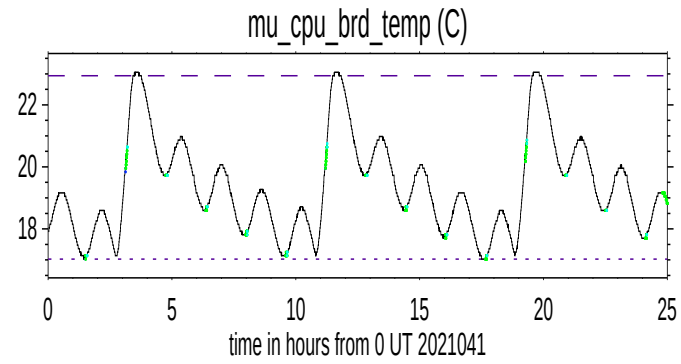
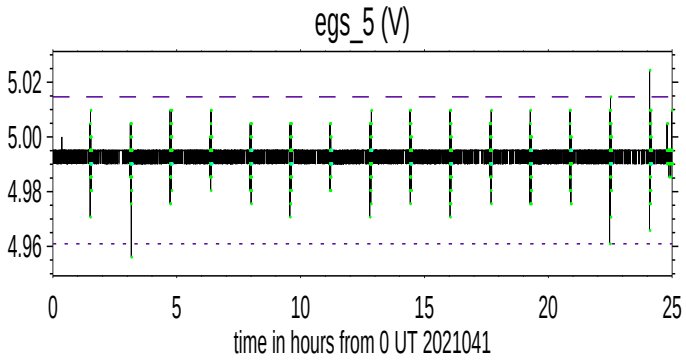
```
Information for      2021041
01:09:08.000: see_stat[1]: 4 internal error
20:31:29.002: see_stat[1]: 5 internal error
```

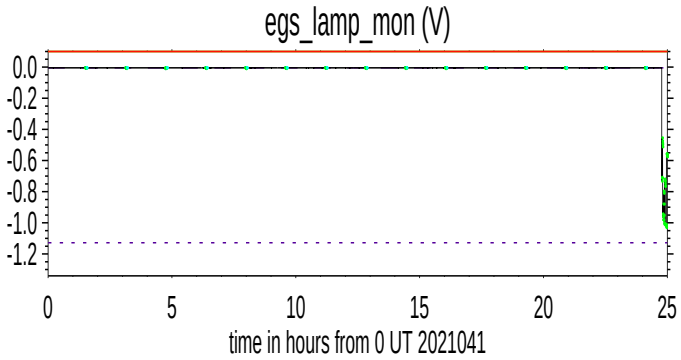
/export/timed/data/science_dp/tlm_limit/outoflimit_2021041_012.txt
Fri Mar 12 06:14:13 2021 1

RH OutOfLimit 1296950429 1297040407 hk.mu_cmd_pkt_reject


mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2021041


mu_cpu_brd_temp (C)
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021041


egs_5 (V)
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021041


egs_lamp_mon (V)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
0
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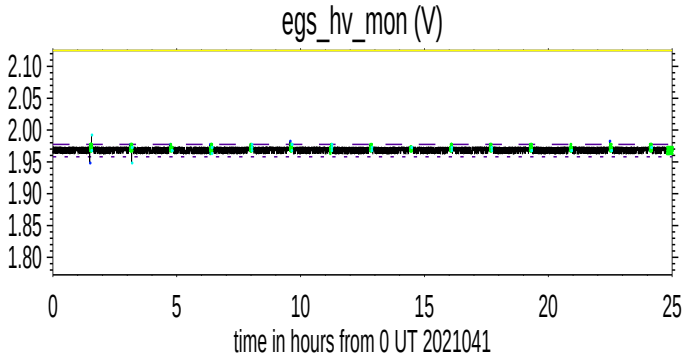
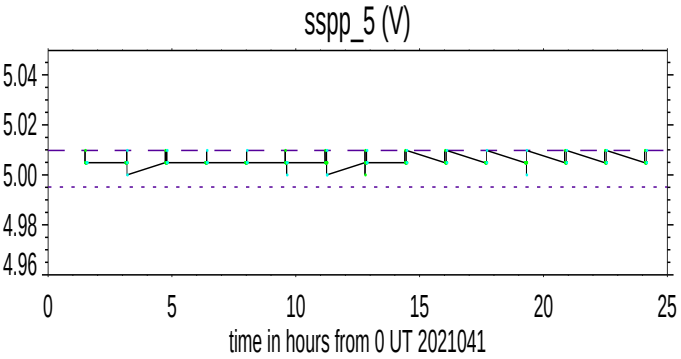
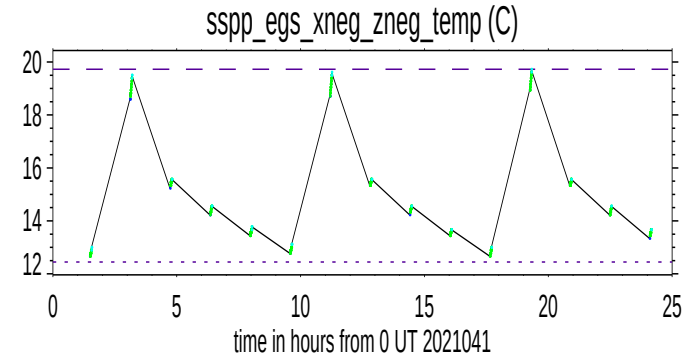
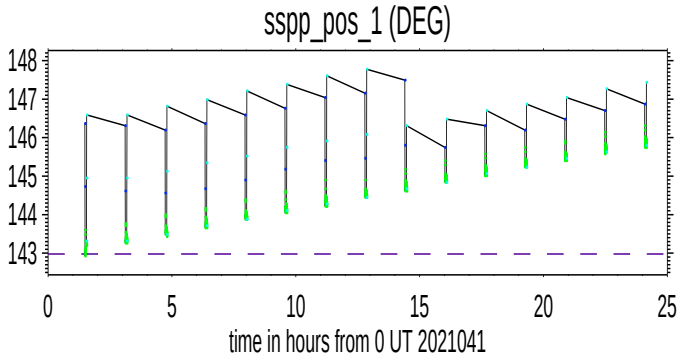
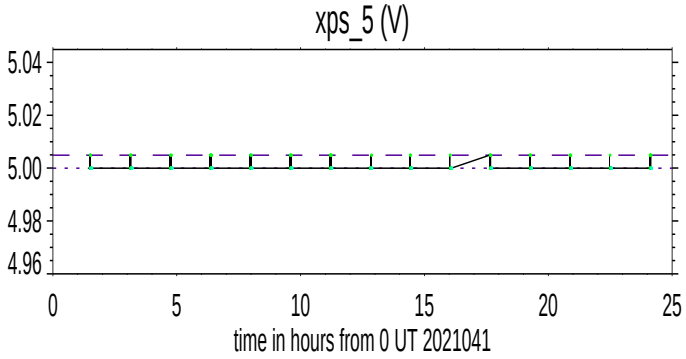
10
15
20
25
time in hours from 0 UT 2021041

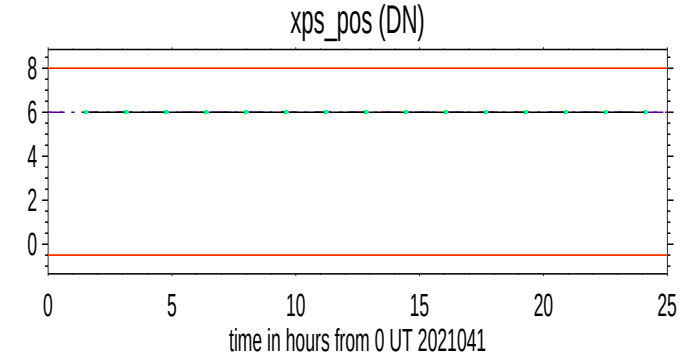

egs_hv_mon (V)
2.10
2.05
2.00
1.95
1.90
1.85
1.80
0
5
10
15
20
25
time in hours from 0 UT 2021041

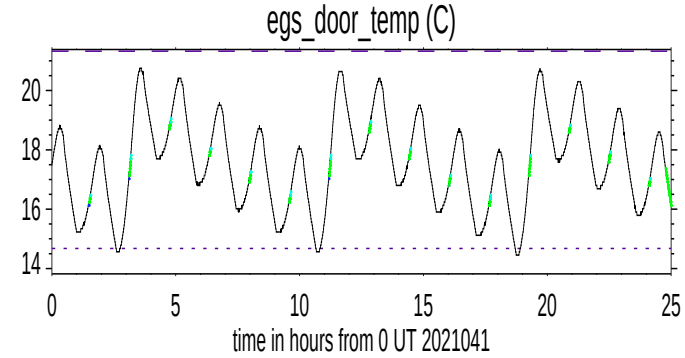

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021041

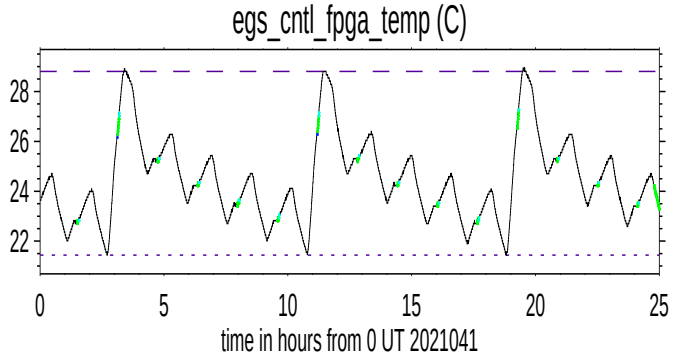

sspp_egs_xneg_zneg_temp (C)
20
18
16
14
12
0
5
10
15
20
25
time in hours from 0 UT 2021041

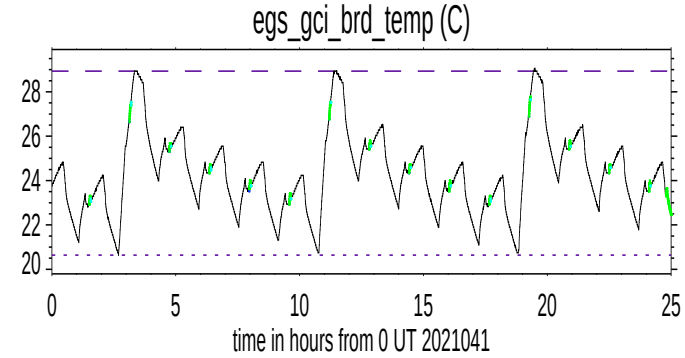

sspp_pos_1 (DEG)
148
147
146
145
144
143
0
5
10
15
20
25
time in hours from 0 UT 2021041

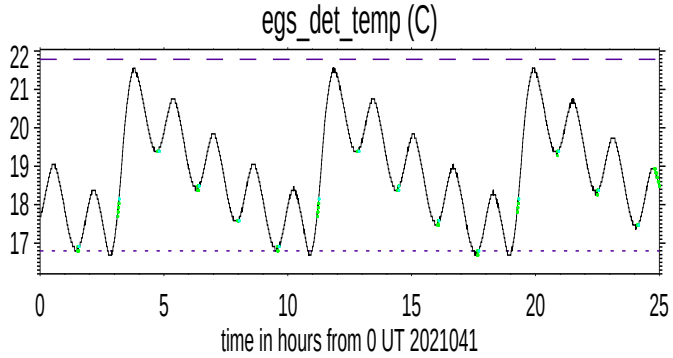

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021041

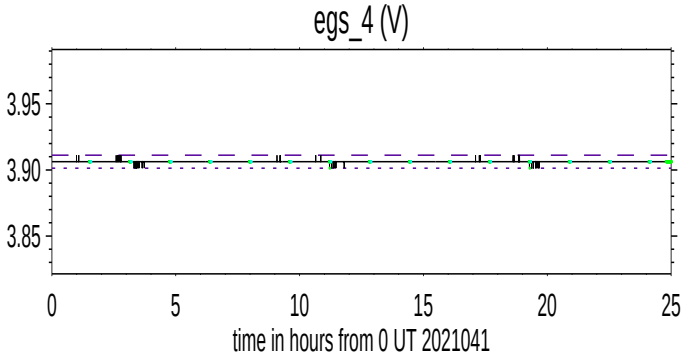

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2021041

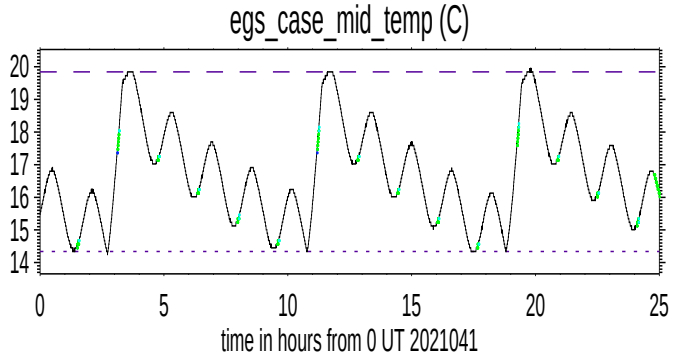

egs_door_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

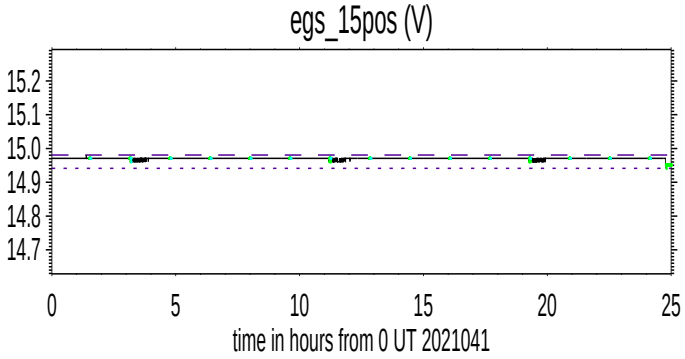

egs_cntl_fpga_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2021041

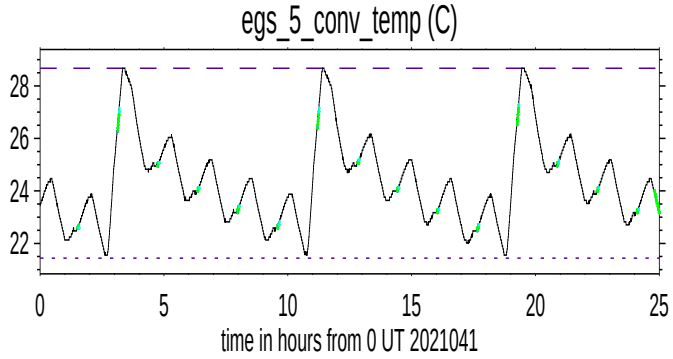

egs_gci_brd_temp (C)
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021041

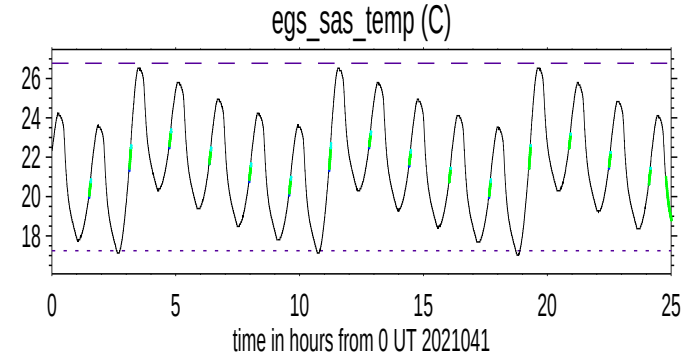

egs_det_temp (C)
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2021041

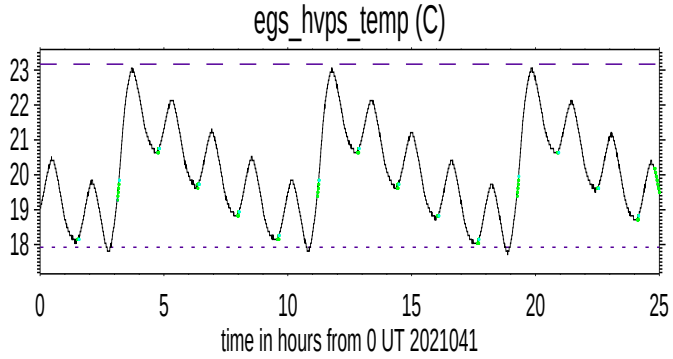

egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021041

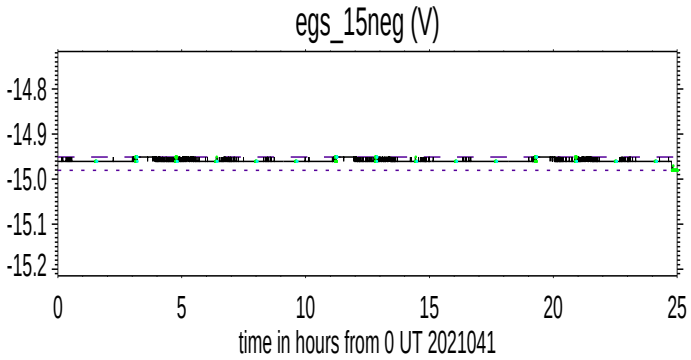

egs_case_mid_temp (C)
20
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

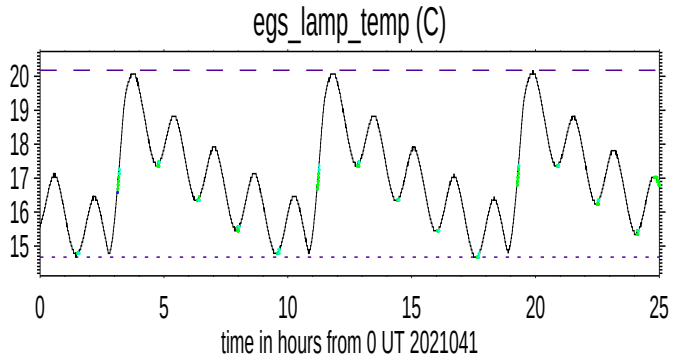

egs_15pos (V)
15.2
15.1
15.0
14.9
14.8
14.7
0
5
10
15
20
25
time in hours from 0 UT 2021041

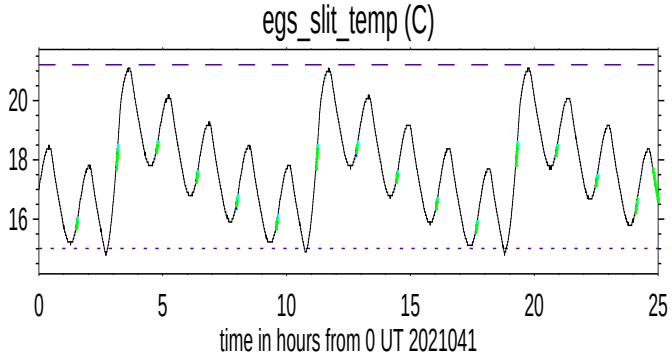

egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2021041

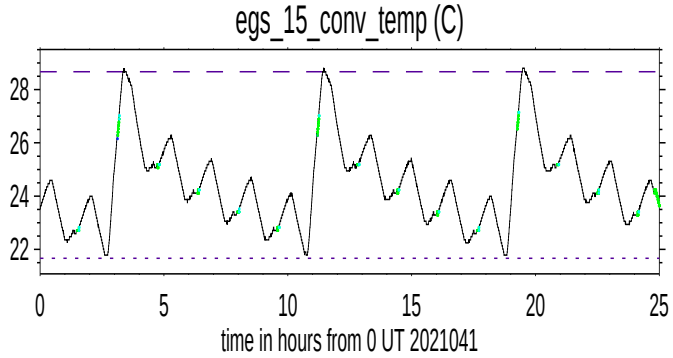

egs_sas_temp (C)
26
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021041

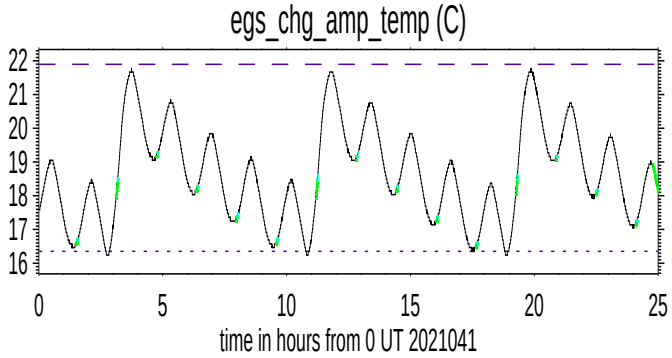

egs_hvps_temp (C)
23
22
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2021041

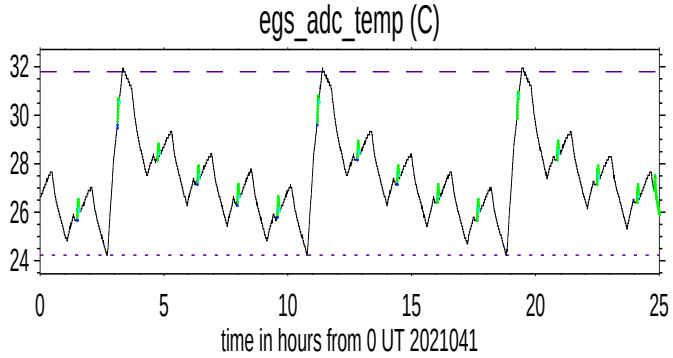

egs_15neg (V)
-14.8
-14.9
-15.0
-15.1
-15.2
0 5 10 15 20 25
time in hours from 0 UT 2021041

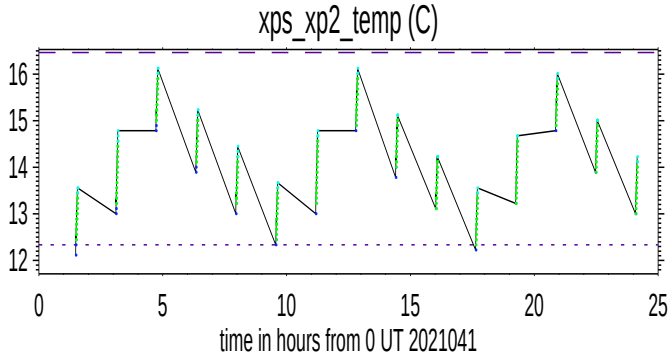

egs_lamp_temp (C)
20 19 18 17 16 15
0 5 10 15 20 25
time in hours from 0 UT 2021041

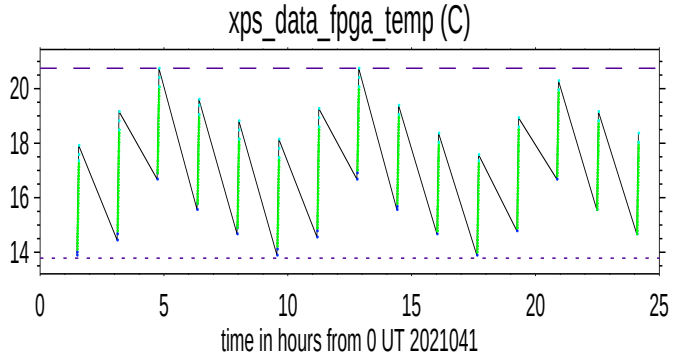

egs_slit_temp (C)
20 18 16
0 5 10 15 20 25
time in hours from 0 UT 2021041

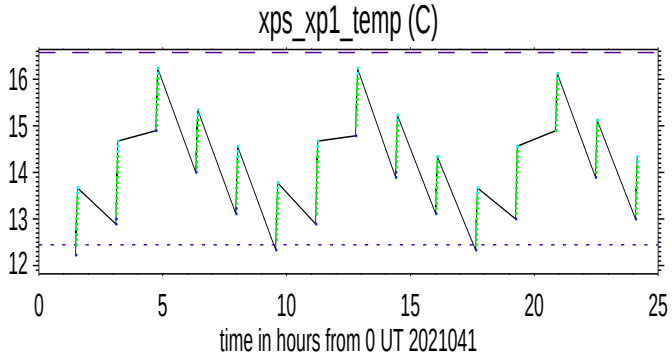

egs_15_conv_temp (C)
28 26 24 22
0 5 10 15 20 25
time in hours from 0 UT 2021041

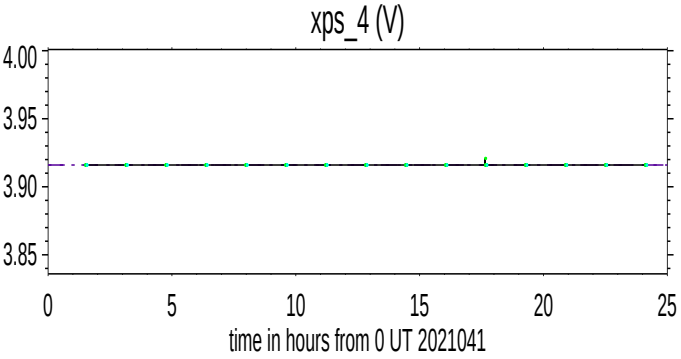

egs_chg_amp_temp (C)
22 21 20 19 18 17 16
0 5 10 15 20 25
time in hours from 0 UT 2021041

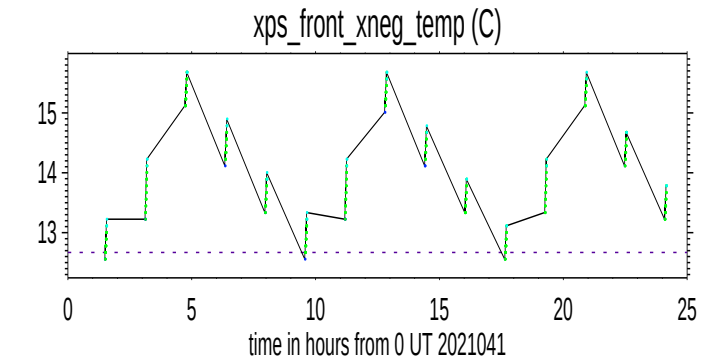

egs_adc_temp (C)
32 30 28 26 24
0 5 10 15 20 25
time in hours from 0 UT 2021041

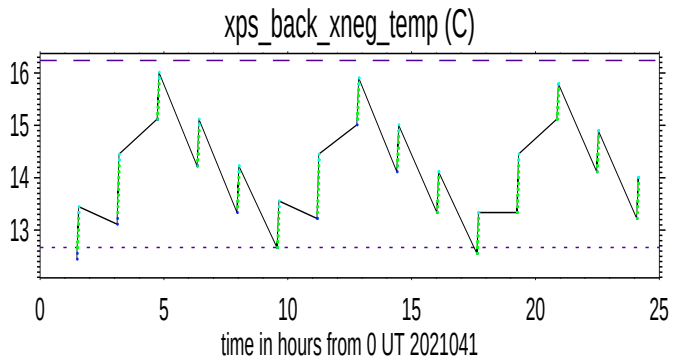

xps_xp2_temp (C)
16 15 14 13 12
0 5 10 15 20 25
time in hours from 0 UT 2021041

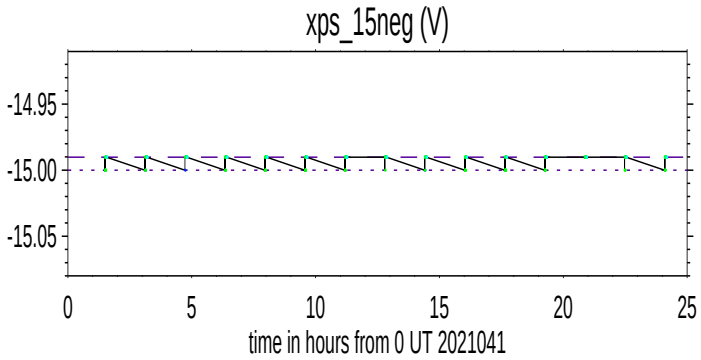

xps_data_fpga_temp (C)
20 18 16 14
0 5 10 15 20 25
time in hours from 0 UT 2021041

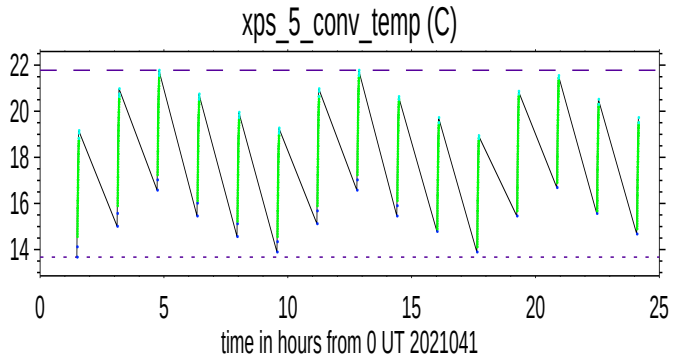

xps_xp1_temp (C)
16 15 14 13 12
0 5 10 15 20 25
time in hours from 0 UT 2021041

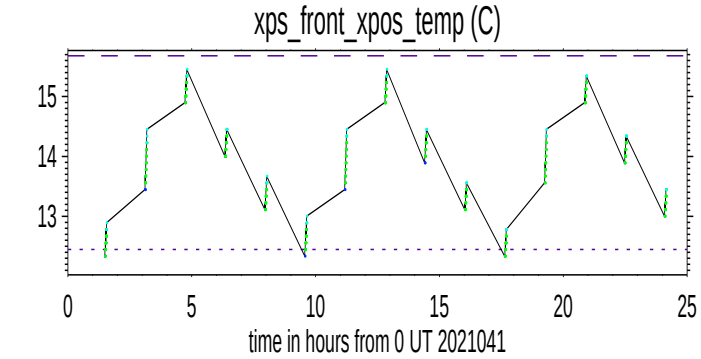

xps_4 (V)
4.00 3.95 3.90 3.85
0 5 10 15 20 25
time in hours from 0 UT 2021041

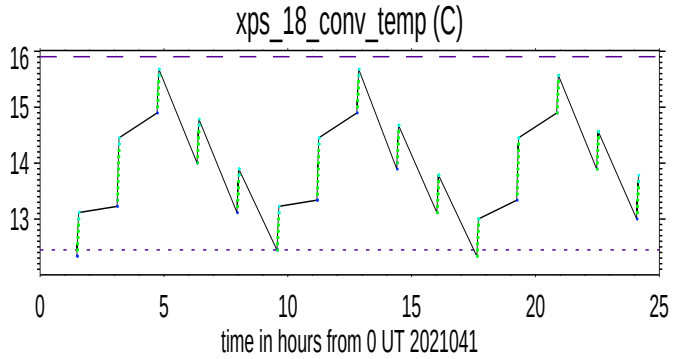

xps_front_xneg_temp (C)
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021041


xps_back_xneg_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021041


xps_15neg (V)
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2021041


xps_5_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041


xps_front_xpos_temp (C)
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021041


xps_18_conv_temp (C)
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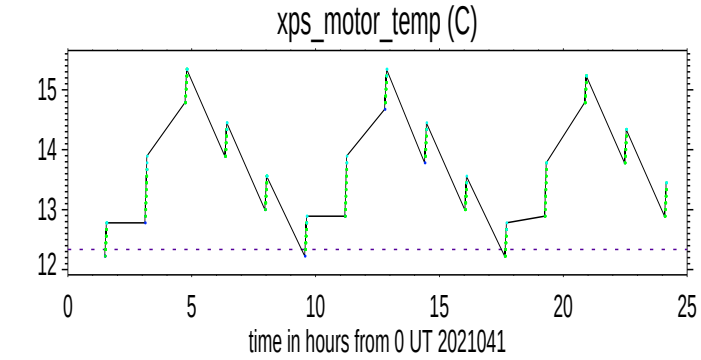
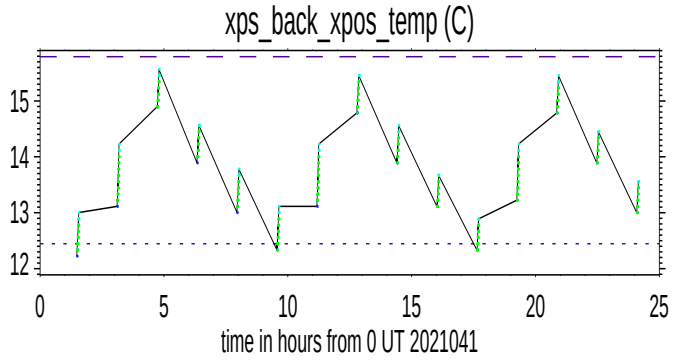
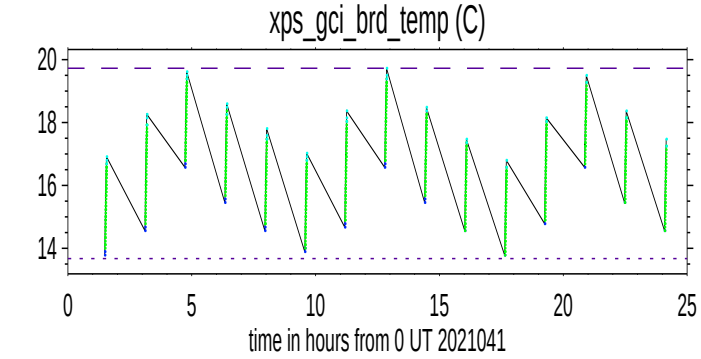
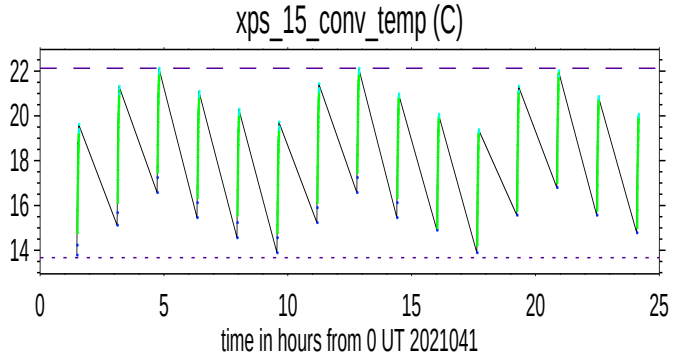
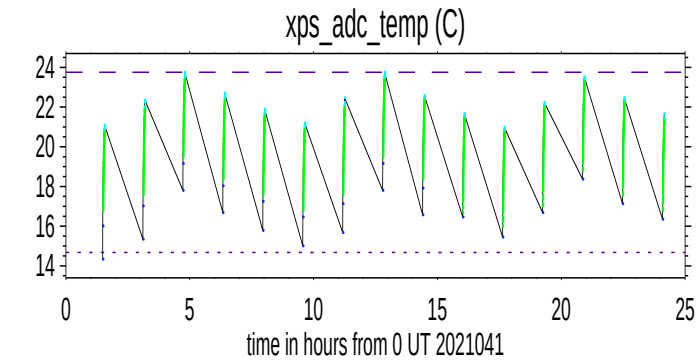
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021041

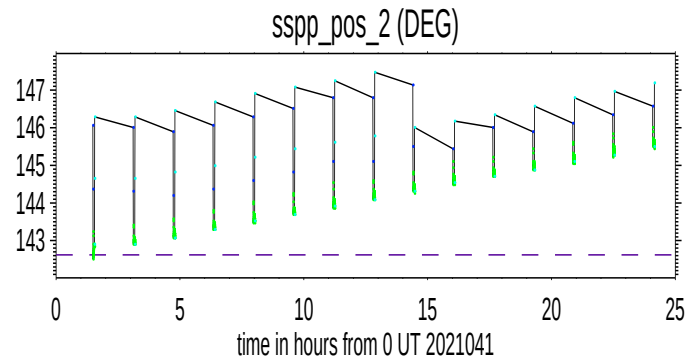

xps_motor_temp (C)
15
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2021041

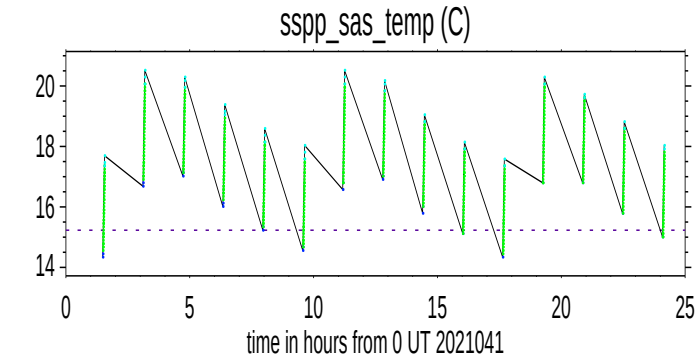

xps_back_xpos_temp (C)
15
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2021041

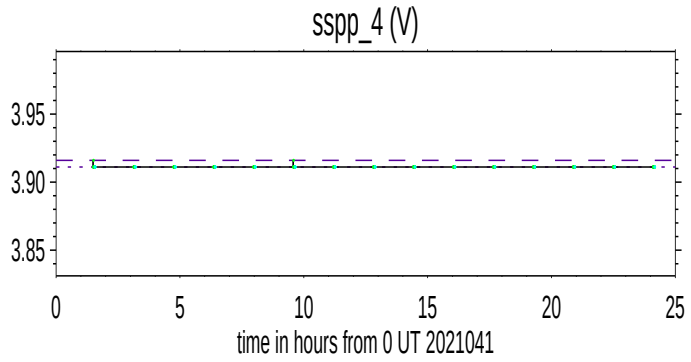

xps_gci_brd_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

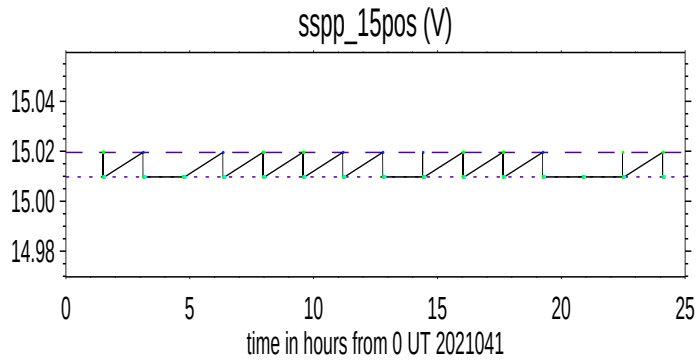

xps_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

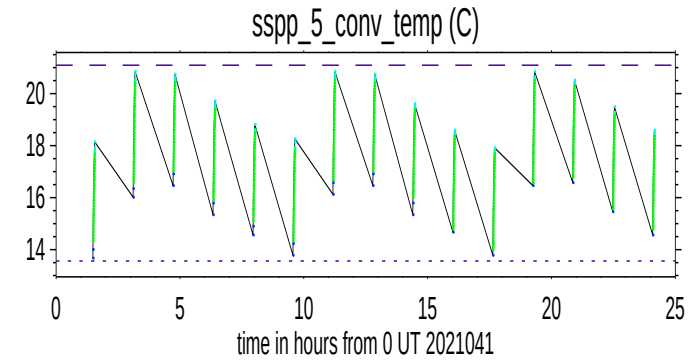

xps_adc_temp (C)
24
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

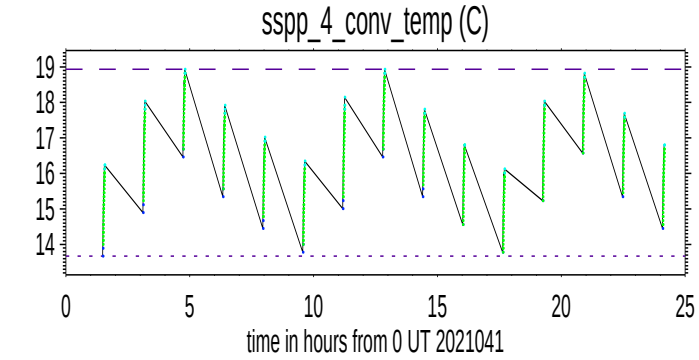

sspp_pos_2 (DEG)
147
146
145
144
143
0
5
10
15
20
25
time in hours from 0 UT 2021041

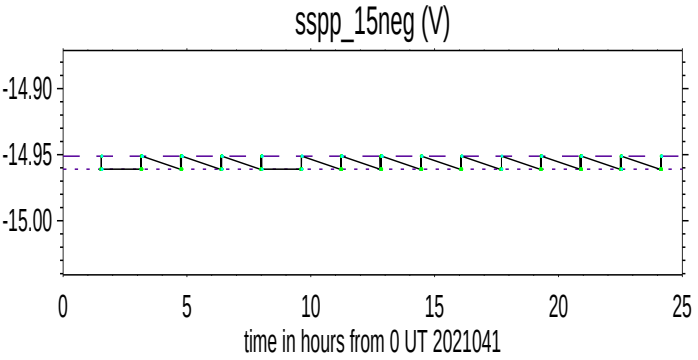

sspp_sas_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

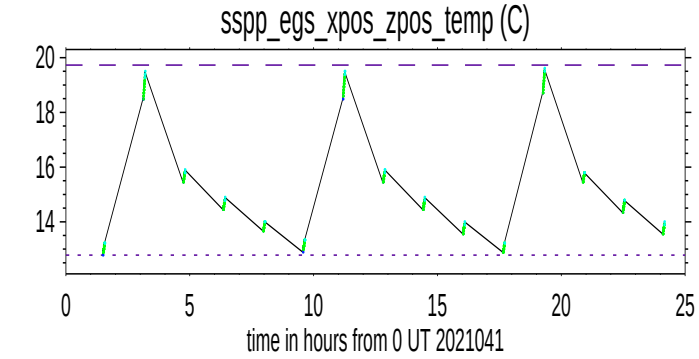

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021041

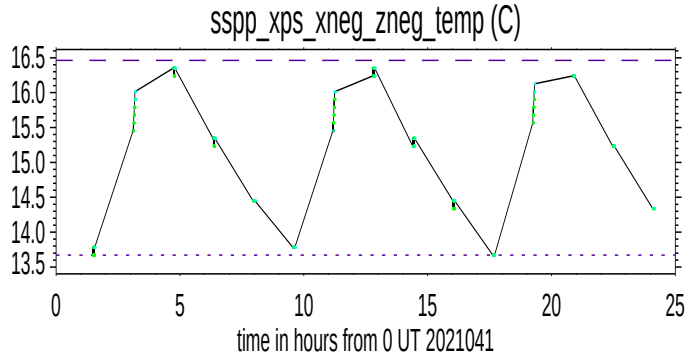

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_4_conv_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_egs_xpos_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_xps_xneg_zneg_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
13.5
0
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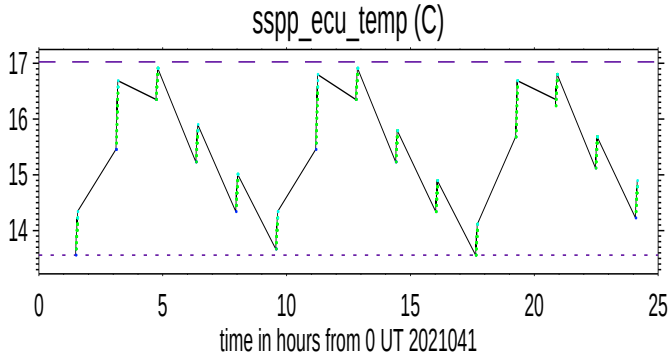
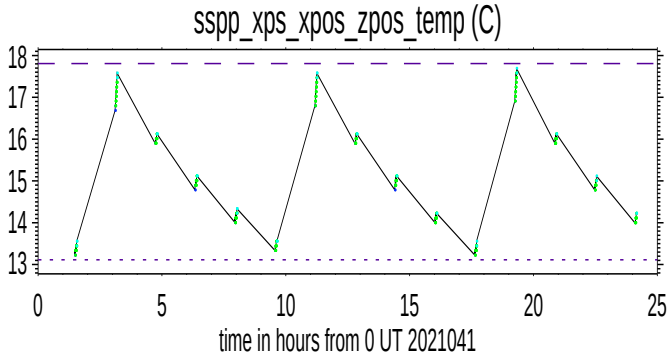
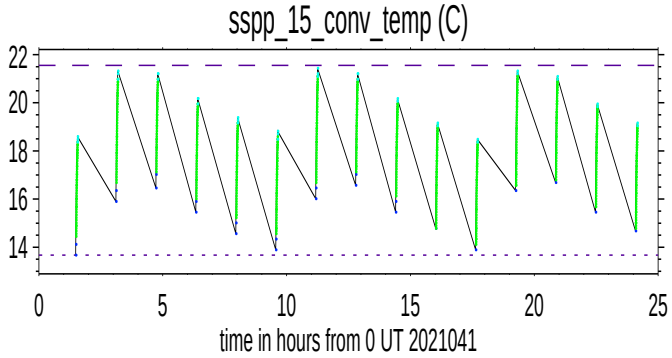
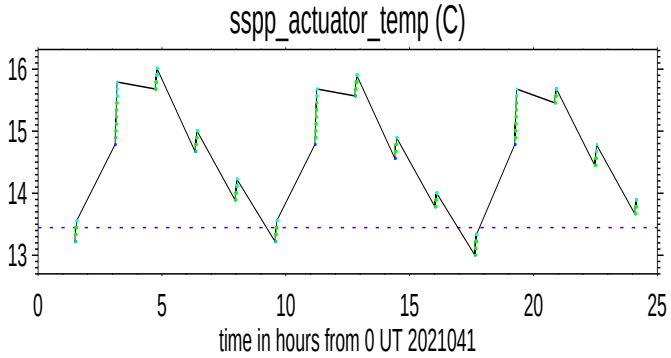
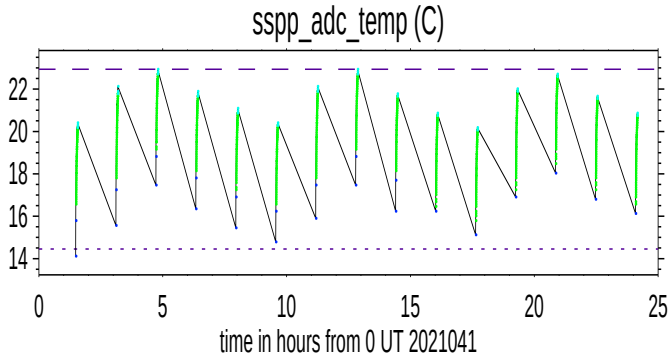
10
15
20
25
time in hours from 0 UT 2021041


sspp_ecu_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_xps_xpos_zpos_temp (C)
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_actuator_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021041


sspp_adc_temp (C)
22
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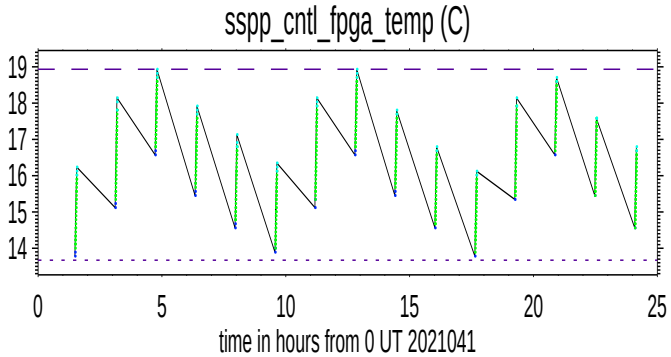
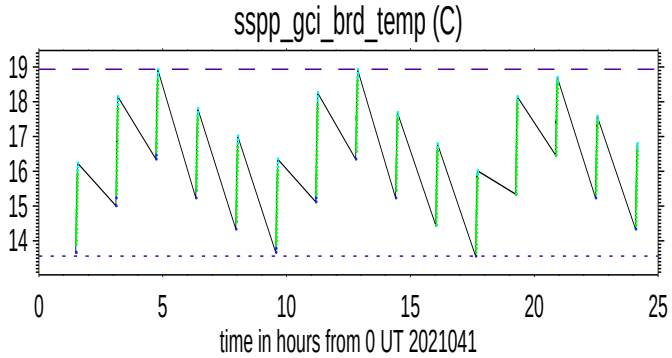
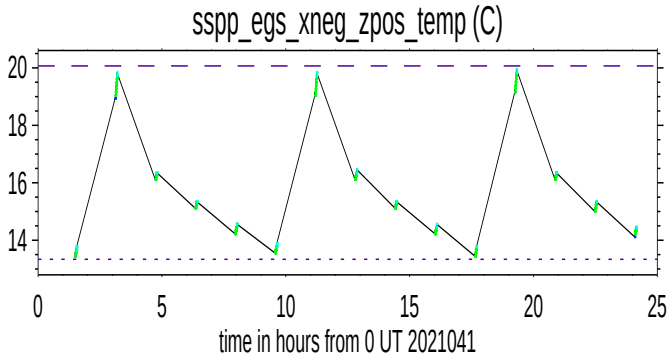
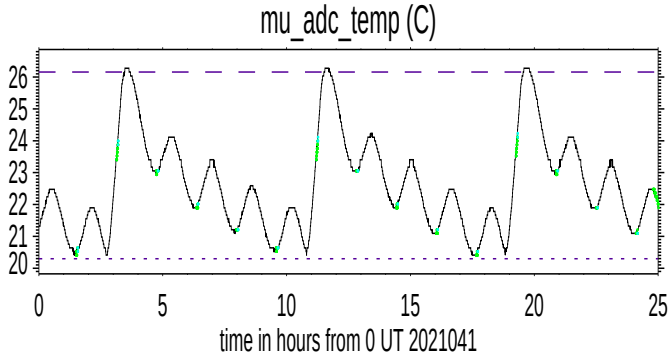
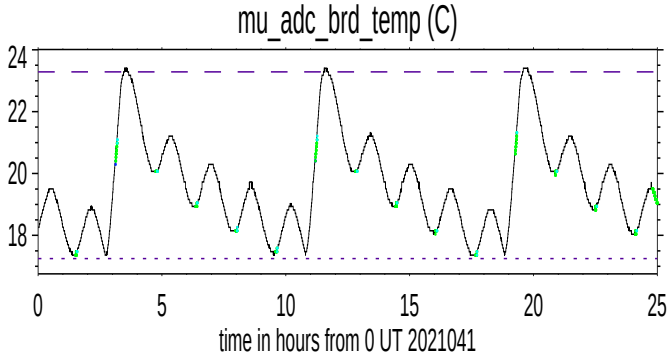
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

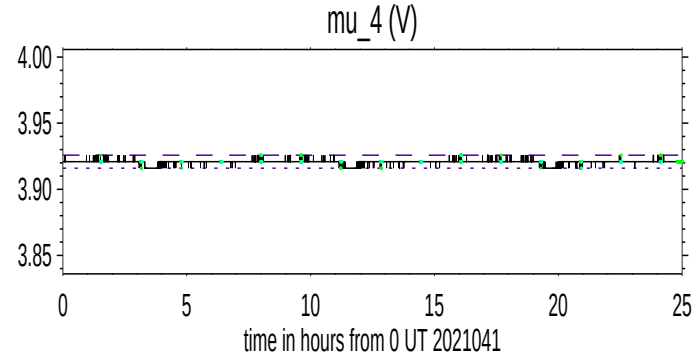

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

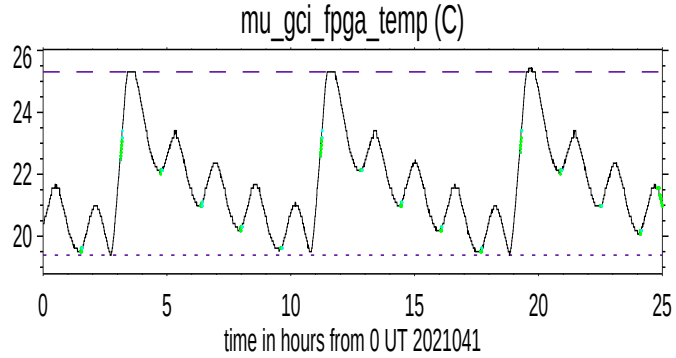

sspp_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

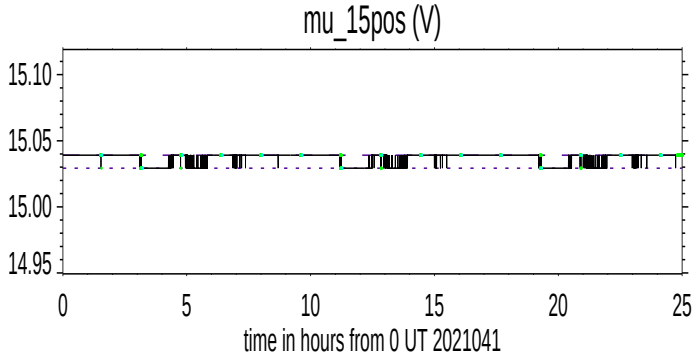

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021041

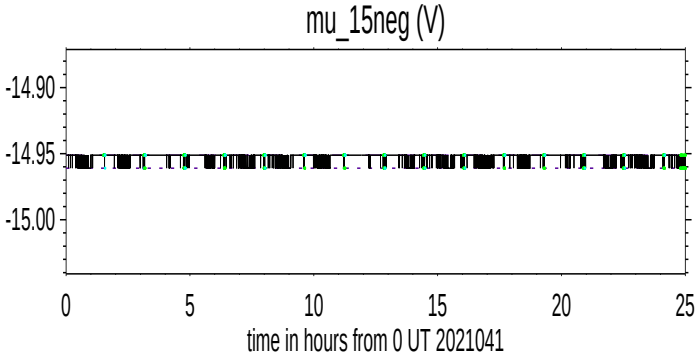

mu_adc_temp (C)
26
25
24
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021041

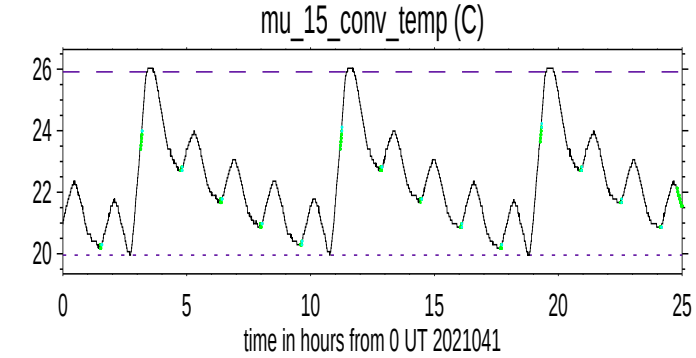

mu_adc_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021041

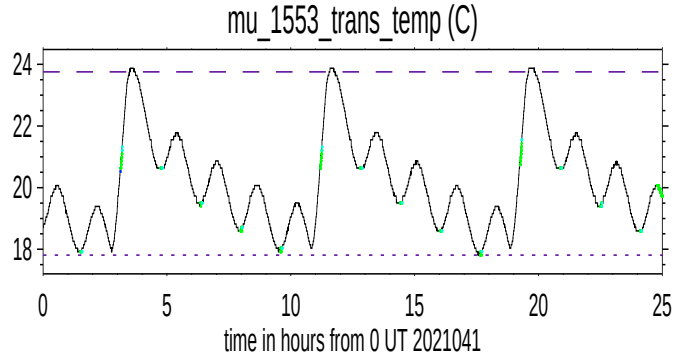

mu_4 (V)
4.00
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2021041

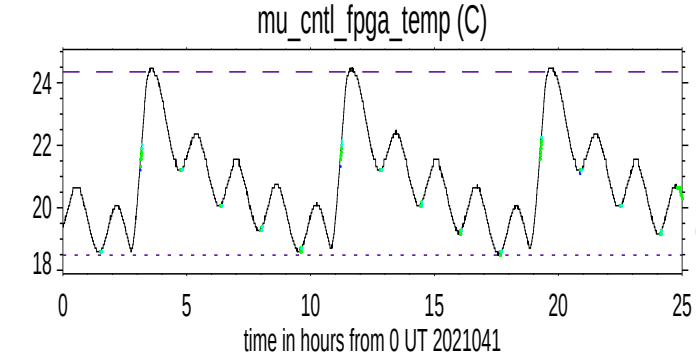

mu_gci_fpga_temp (C)
26
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2021041

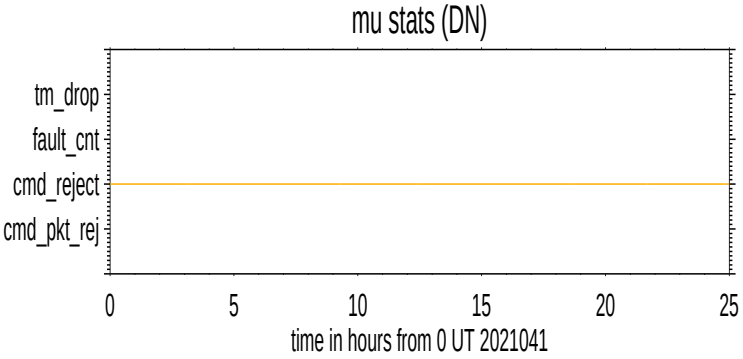

mu_15pos (V)
15.10
15.05
15.00
14.95
0 5 10 15 20 25
time in hours from 0 UT 2021041

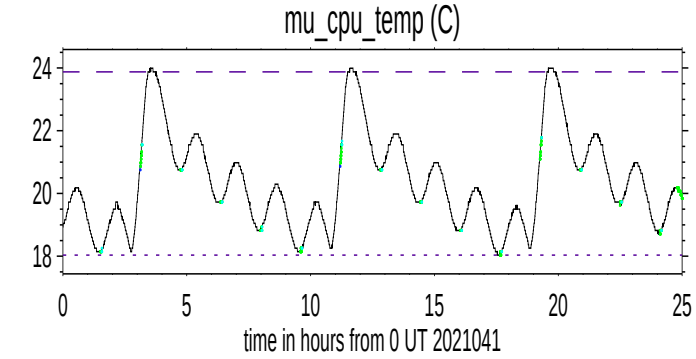

mu_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2021041

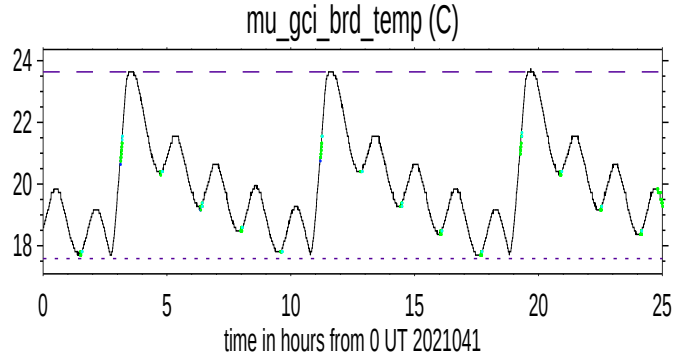

mu_15_conv_temp (C)
26
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2021041

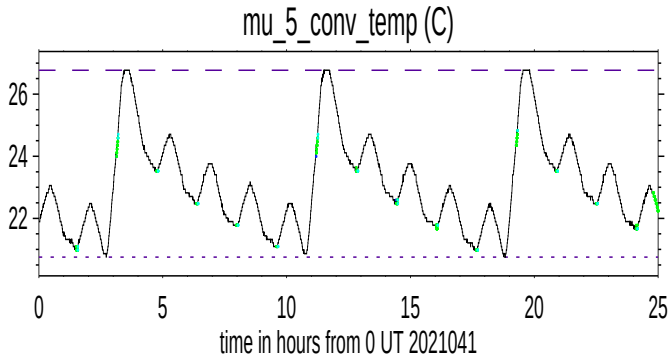

mu_1553_trans_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2021041

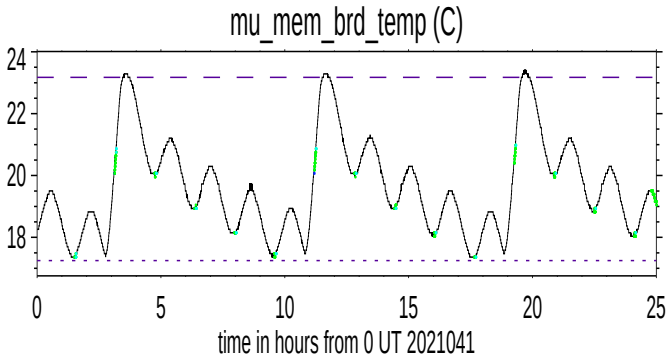

mu_cntl_fpga_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2021041

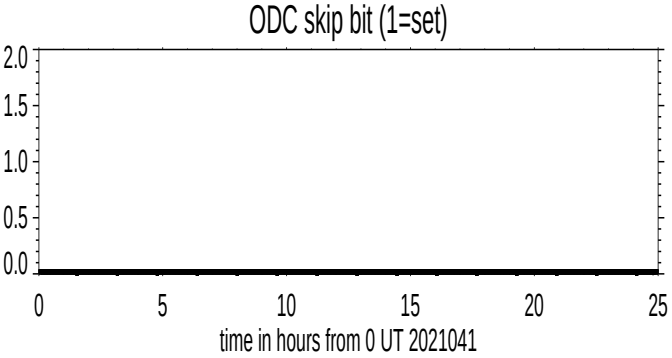

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0 5 10 15 20 25
time in hours from 0 UT 2021041

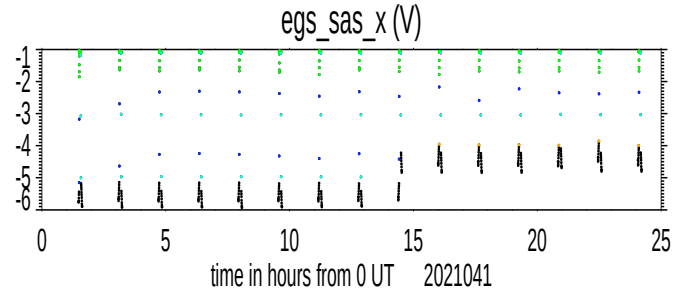

mu_cpu_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2021041

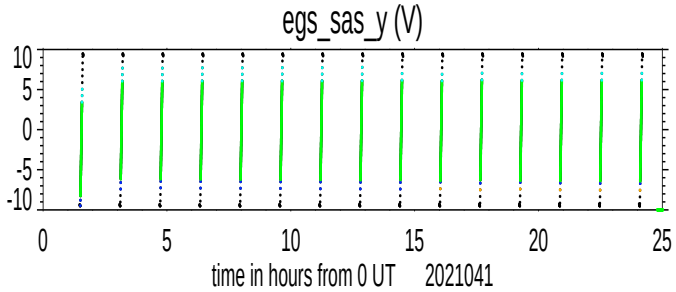

mu_gci_brd_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2021041

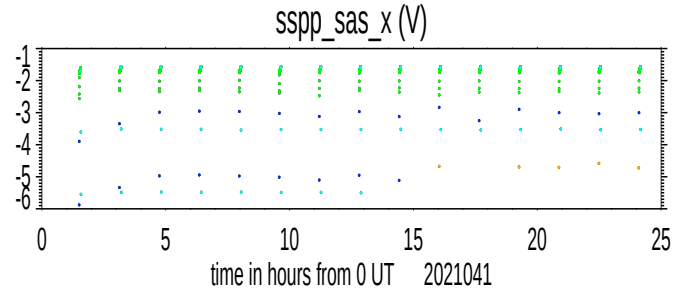

mu_5_conv_temp (C)
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2021041

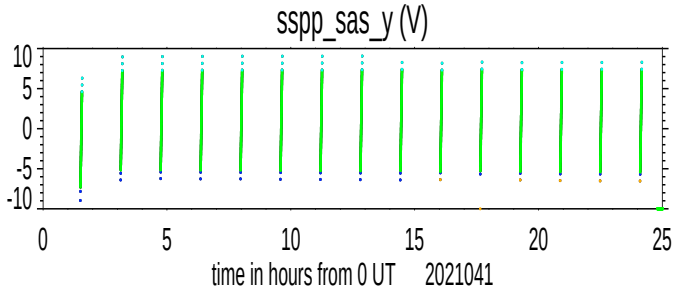

mu_mem_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021041

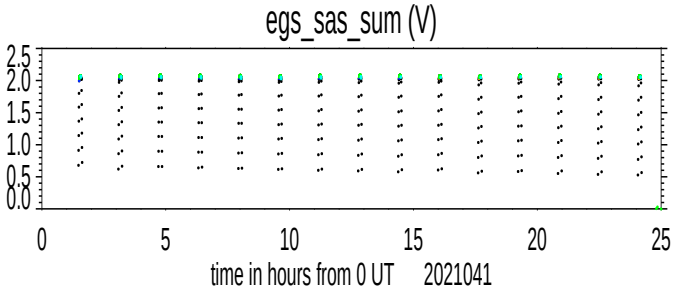

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2021041

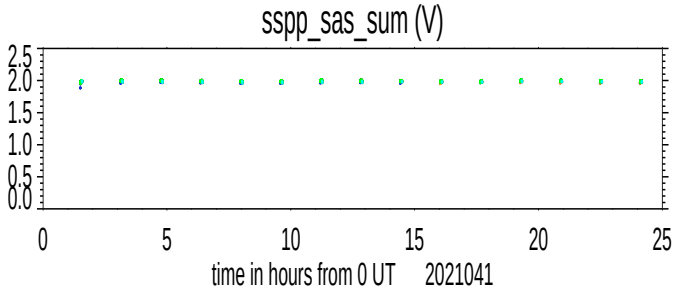

egs_sas_x (V)
time in hours from 0 UT 2021041

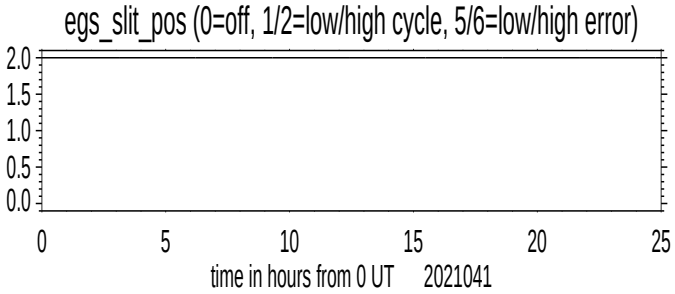

egs_sas_y (V)
time in hours from 0 UT 2021041

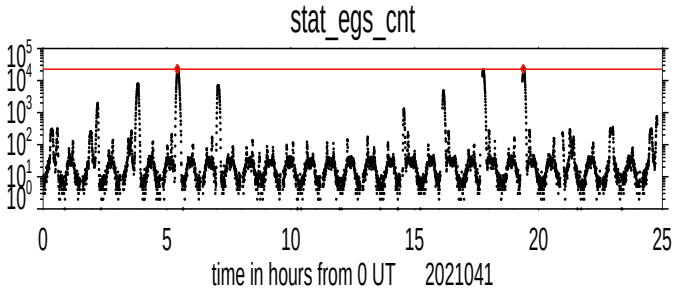

sspp_sas_x (V)
time in hours from 0 UT 2021041

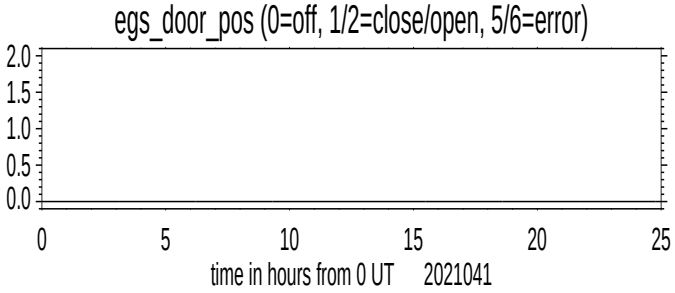

sspp_sas_y (V)
time in hours from 0 UT 2021041

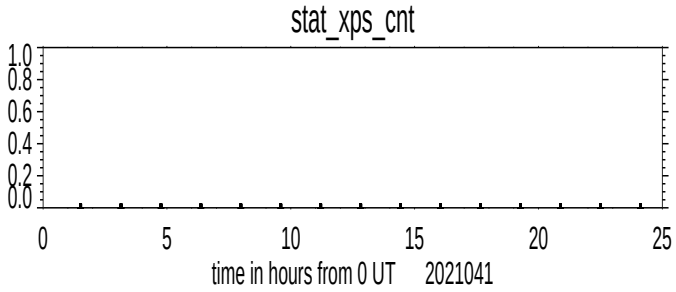

egs_sas_sum (V)
time in hours from 0 UT 2021041

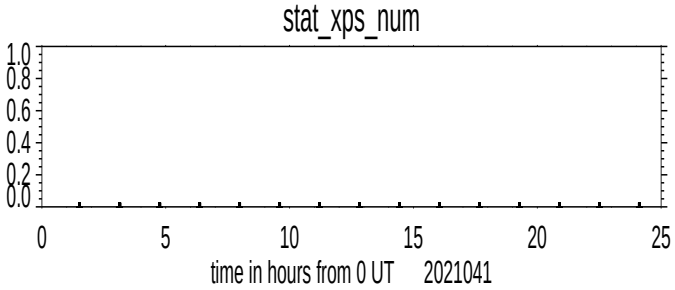

sspp_sas_sum (V)
time in hours from 0 UT 2021041

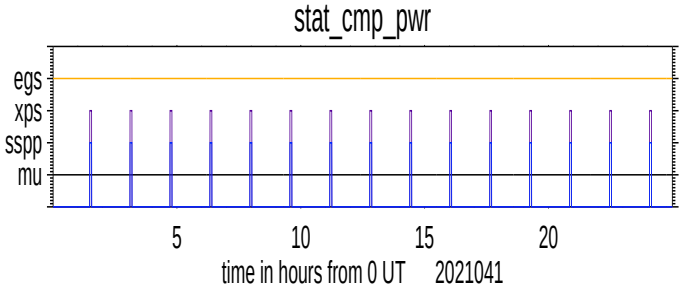

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2021041


stat_egs_cnt
time in hours from 0 UT 2021041

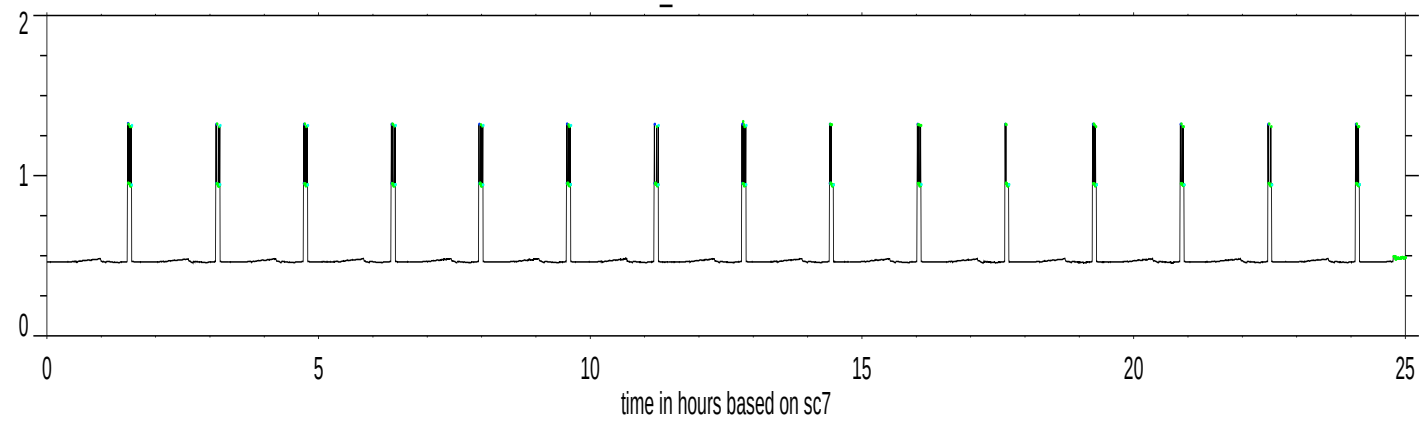

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2021041


stat_xps_cnt
time in hours from 0 UT 2021041

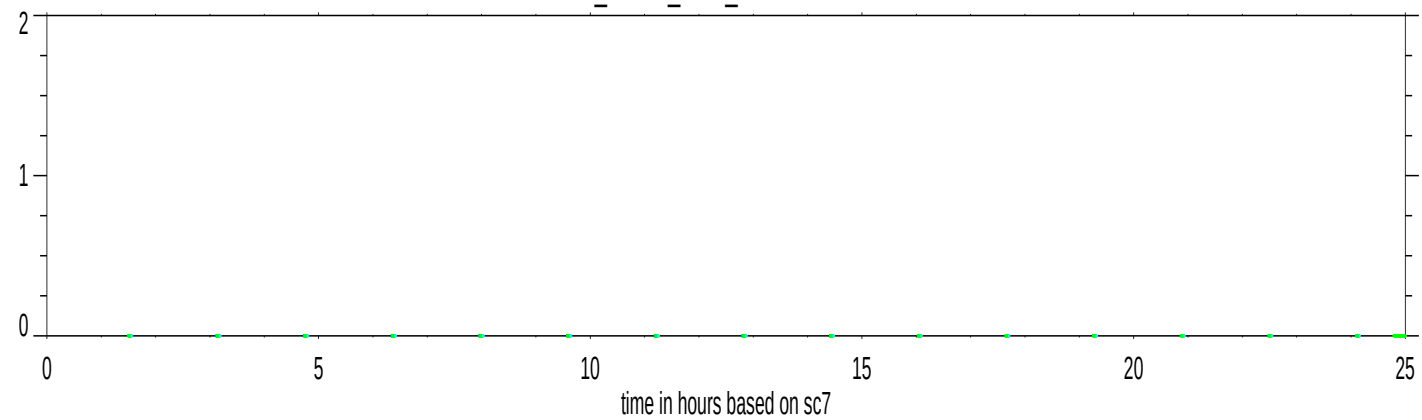

stat_xps_num
time in hours from 0 UT 2021041


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2021041

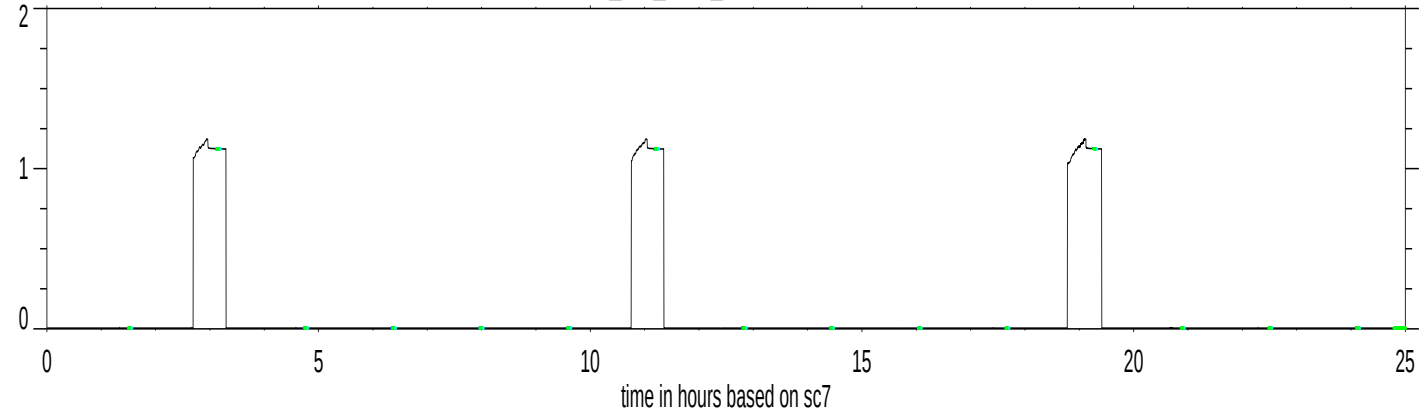
SEE_CUR 2021041



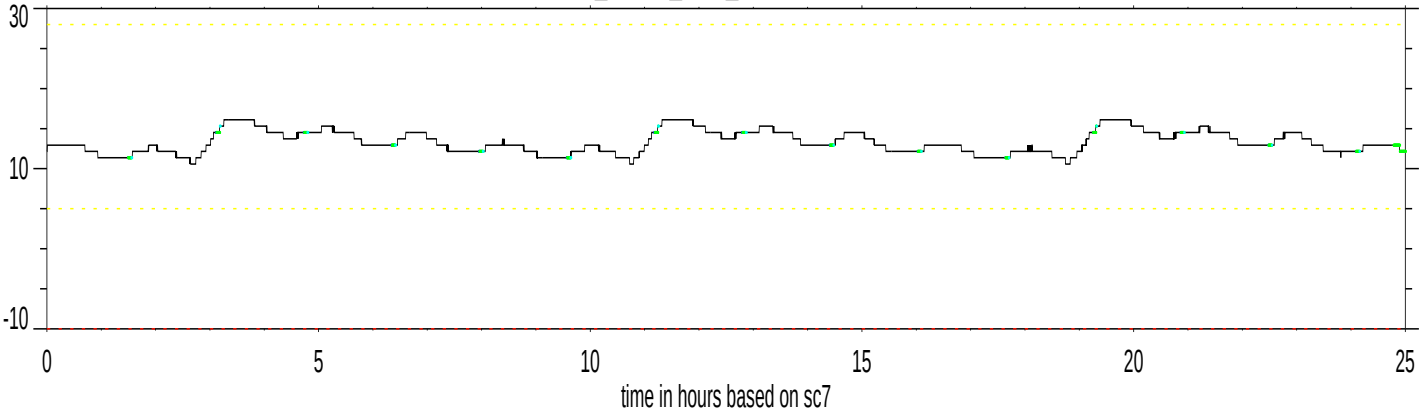
SEE_SURV_HTR_CUR 2021041



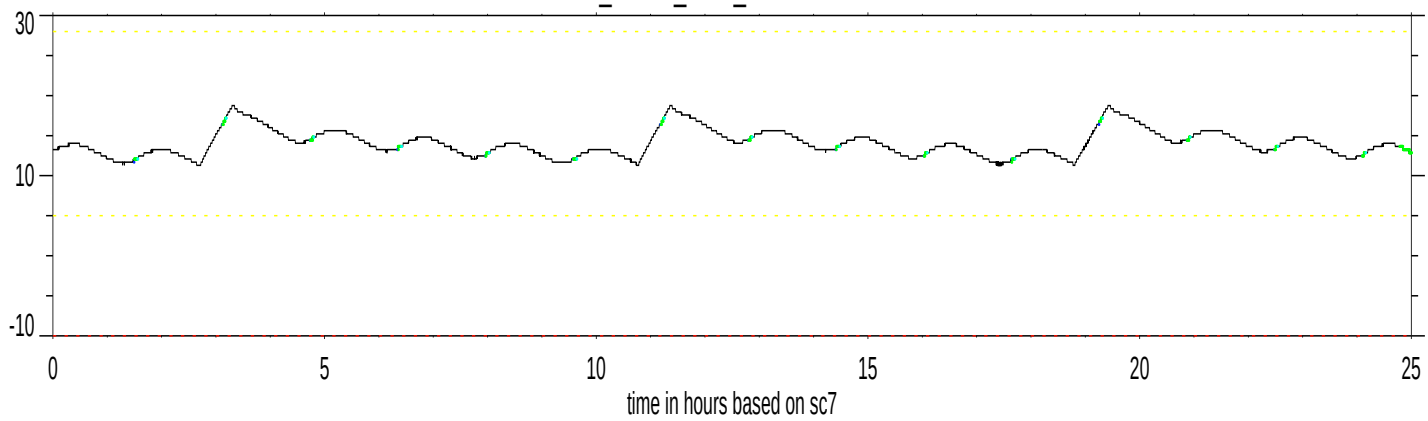
SEE_OP_HTR_CUR 2021041



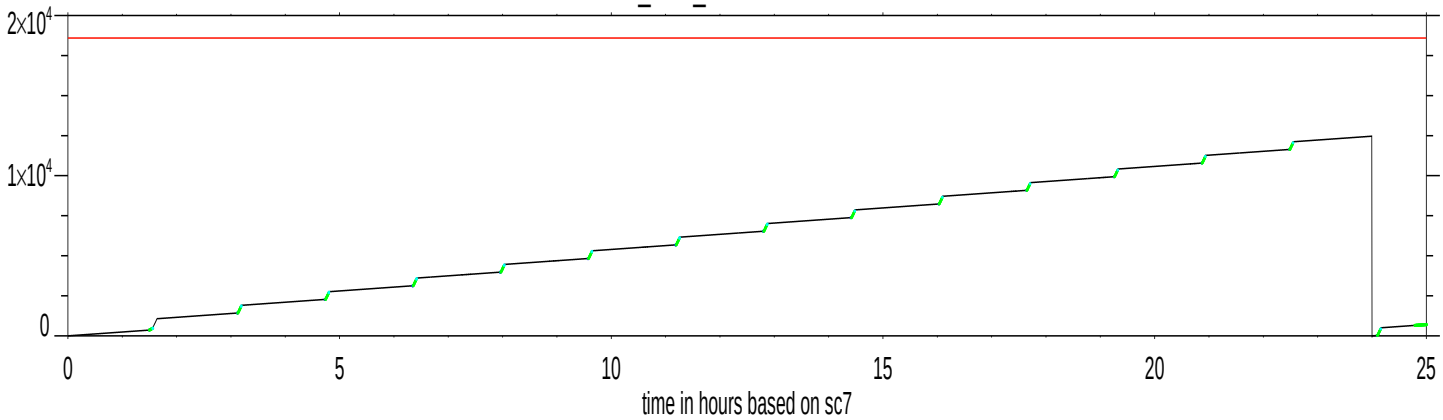
SSPP_BHND_XPS_TEMP 2021041



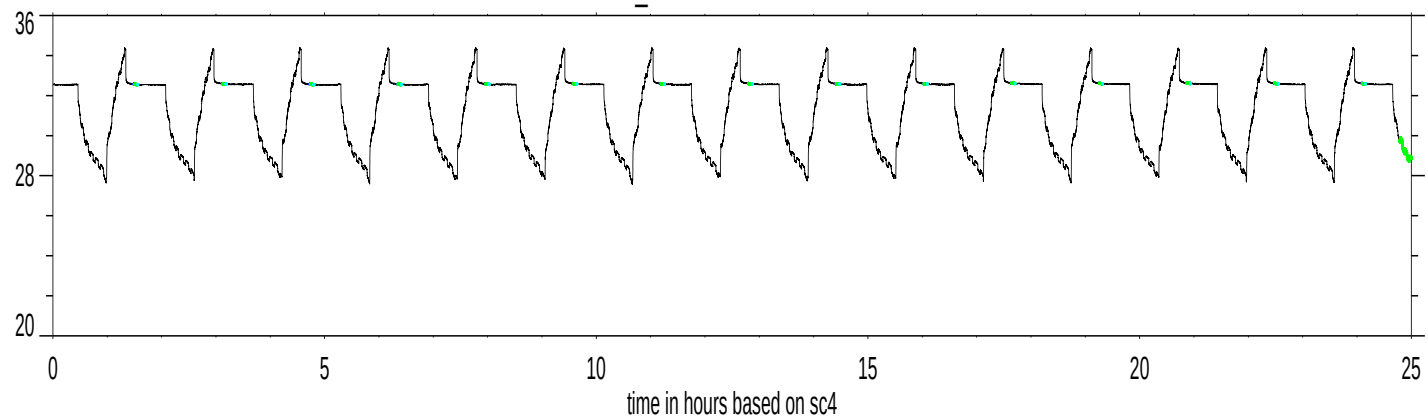
SSPP_BHND_MTR_TEMP 2021041



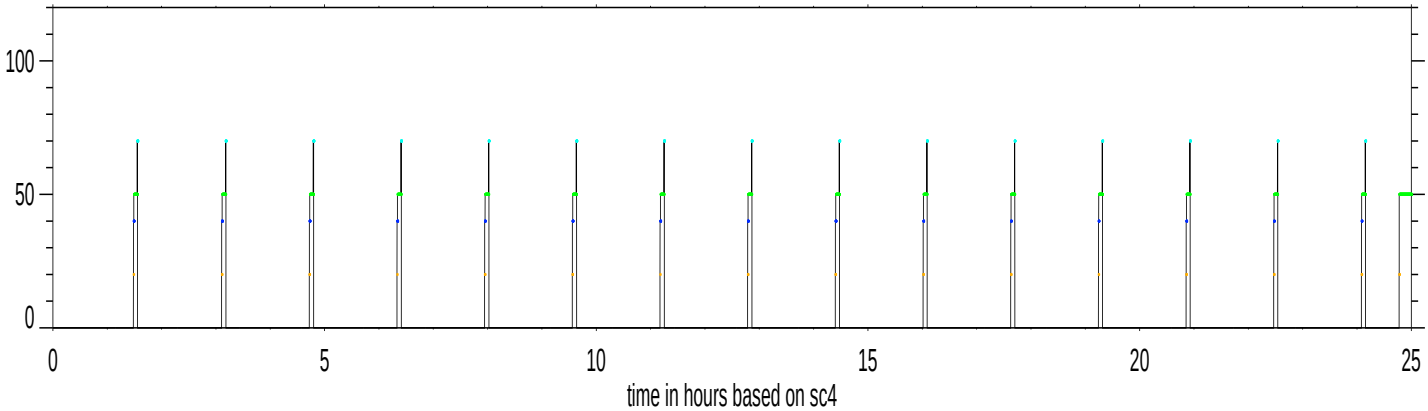
SEE_PKT_COUNT 2021041

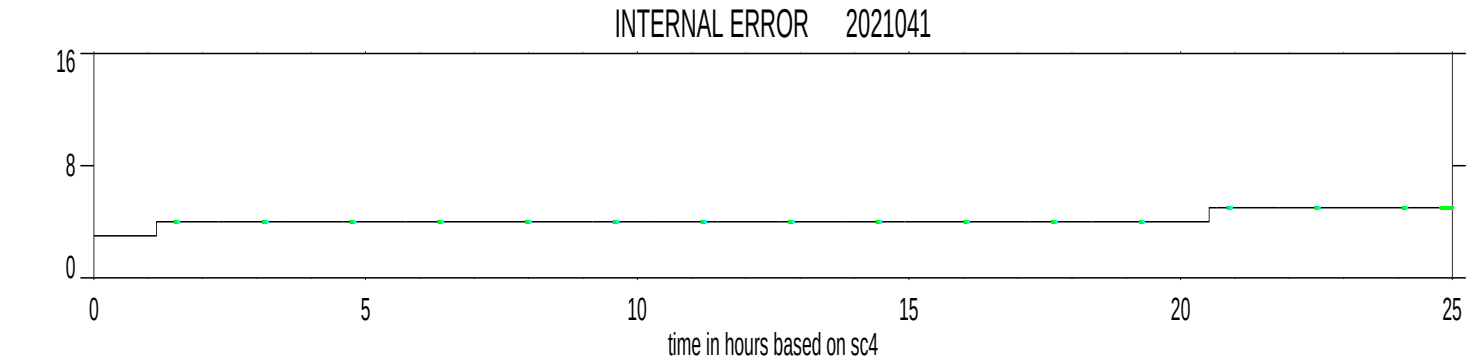


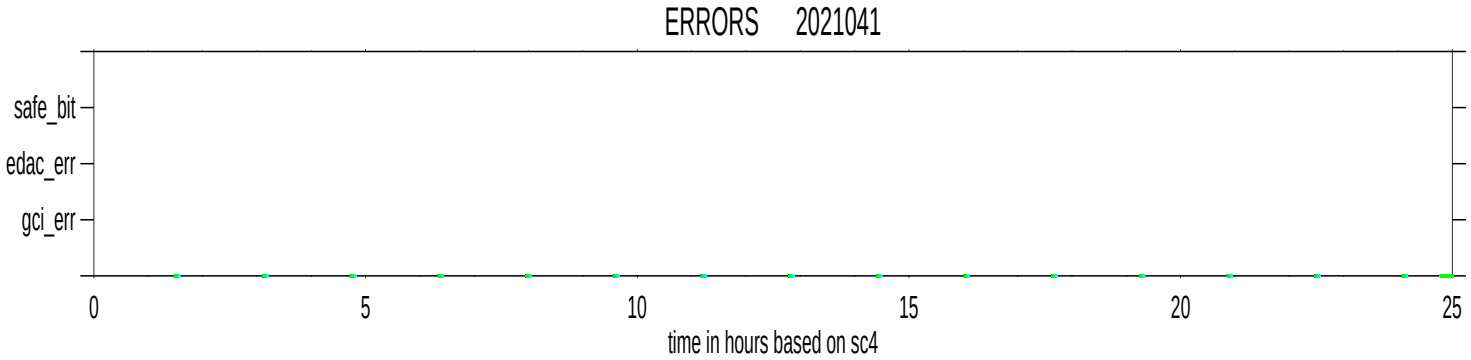
BUS_VOLTAGE 2021041

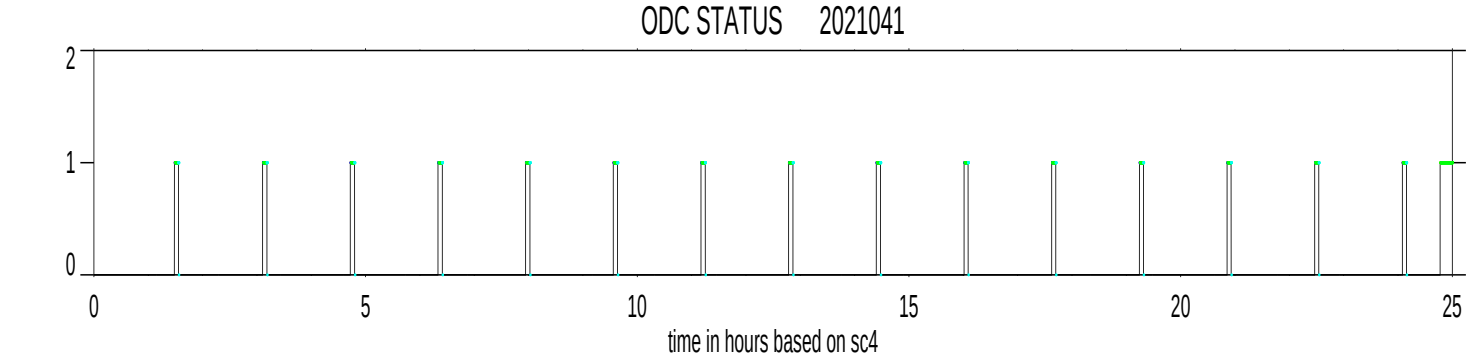


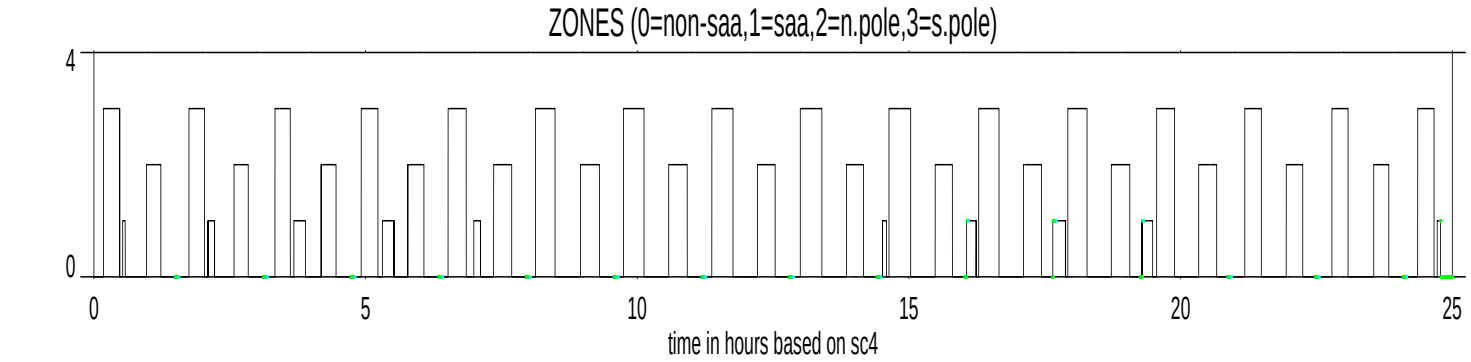
SEE_MU Operational Mode 2021041

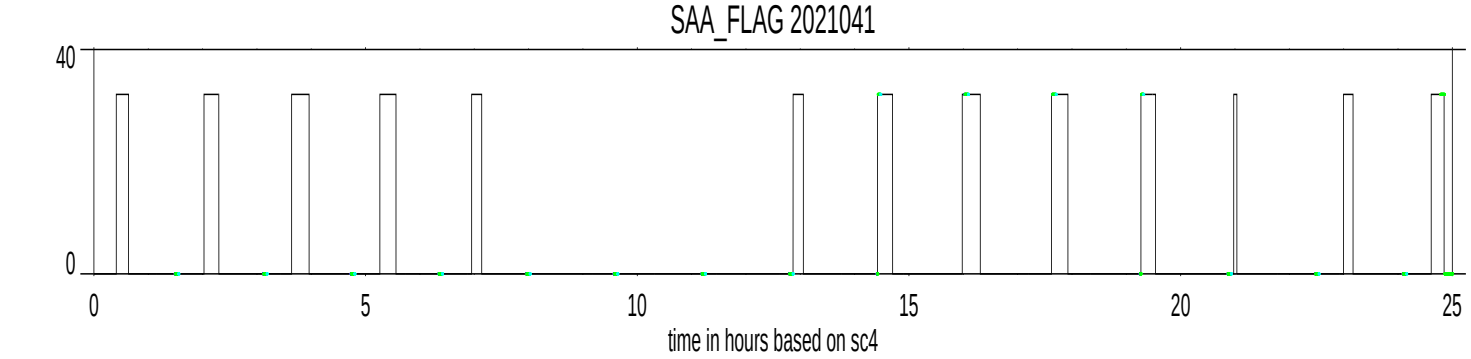


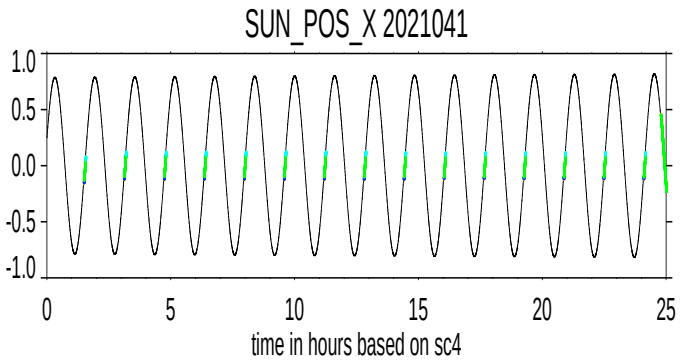

INTERNAL ERROR 2021041
16
8
0
0
5
10
15
20
25
time in hours based on sc4

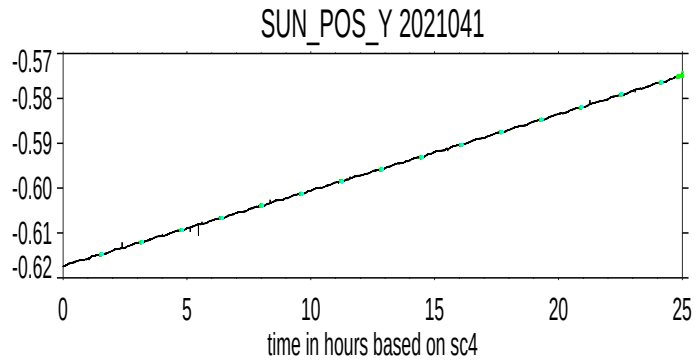

ERRORS 2021041
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

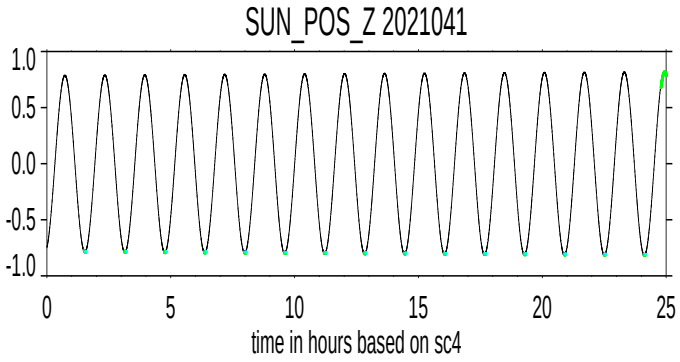

ODC STATUS 2021041
2
1
0
0
5
10
15
20
25
time in hours based on sc4

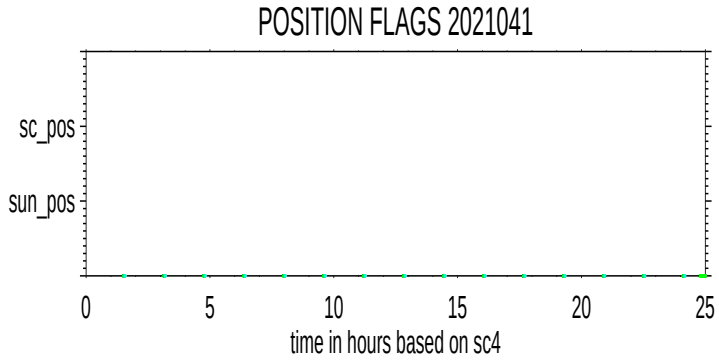

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

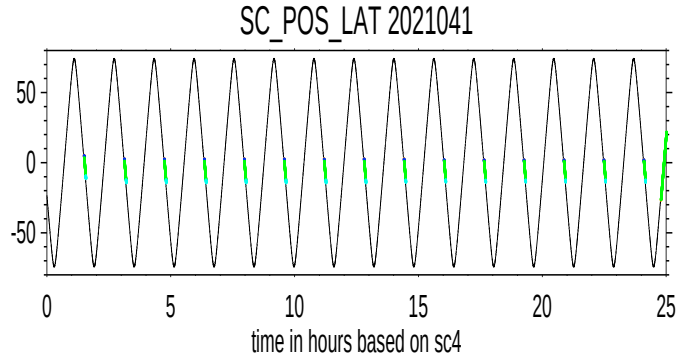

SAA_FLAG 2021041
40
0
0
5
10
15
20
25
time in hours based on sc4

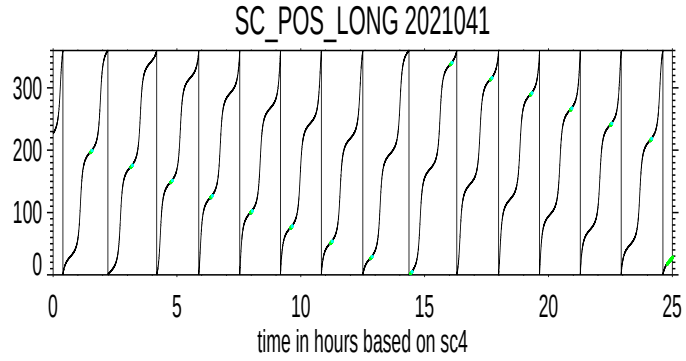

SUN_POS_X 2021041
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

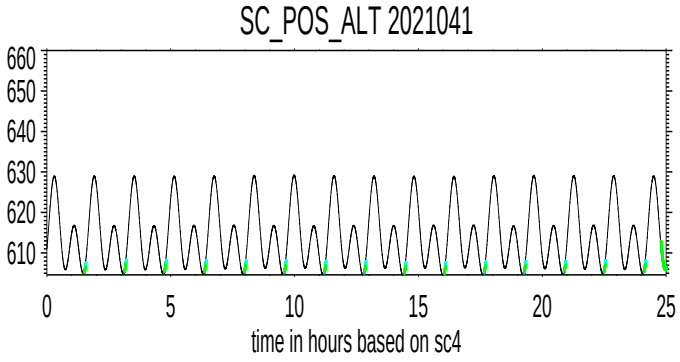

SUN_POS_Y 2021041
-0.57
-0.58
-0.59
-0.60
-0.61
-0.62
0
5
10
15
20
25
time in hours based on sc4

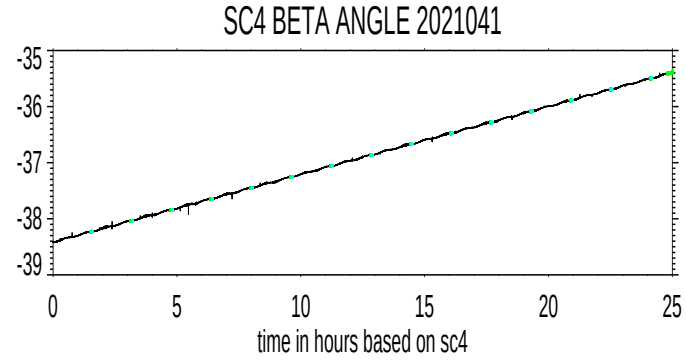

SUN_POS_Z 2021041
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2021041
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2021041
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2021041
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2021041
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2021041
-35
-36
-37
-38
-39
0
5
10
15
20
25
time in hours based on sc4