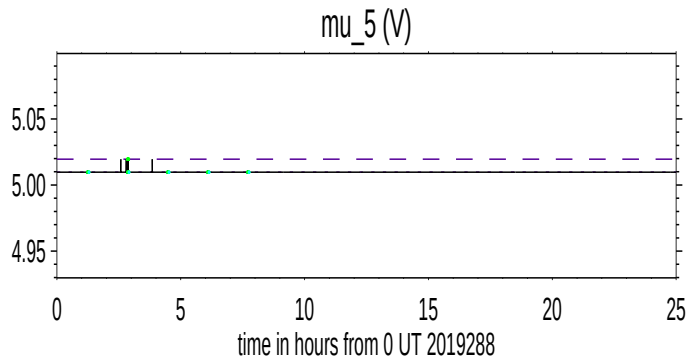
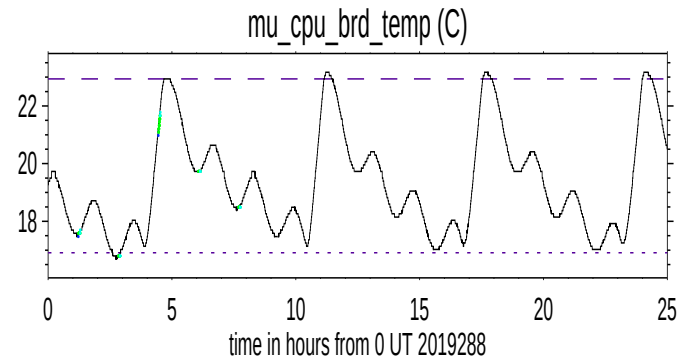
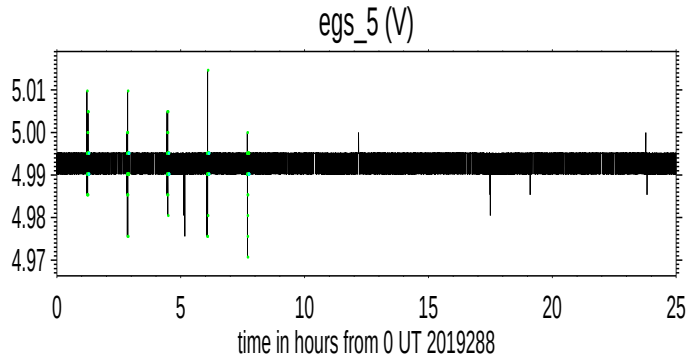
```
Information for      2019288
08:36:49.376: hk: 3 cmd pkt accepted   cmd = ODCs Loaded
08:37:04.376: hk: 8 cmd pkt accepted   cmd = ODCs Loaded
08:37:19.376: hk: 2 cmd pkt accepted   cmd = ODCs Loaded
```

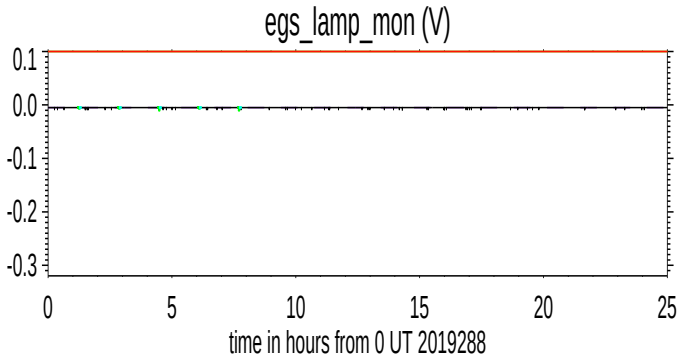
/export/timed/data/science_dp/tlm_limit/outoflimit_2019288_012.txt
Thu Nov 14 06:14:09 2019 1

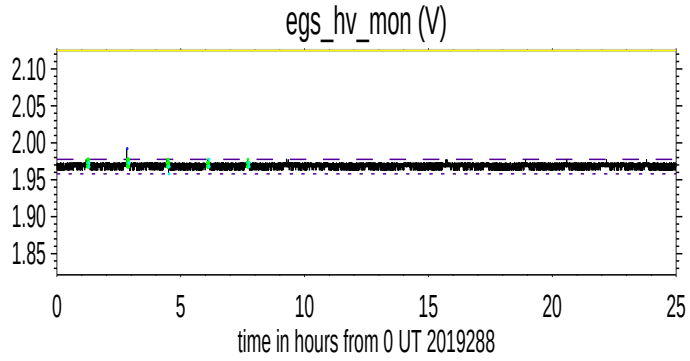
RH OutOfLimit 1255137139 1255160692 45 minute timeout length exceeded for ODC 255

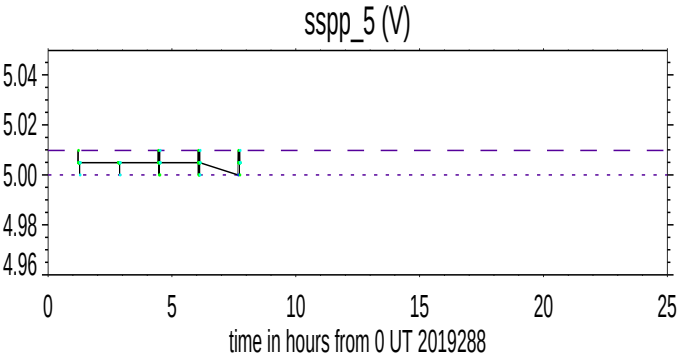

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2019288

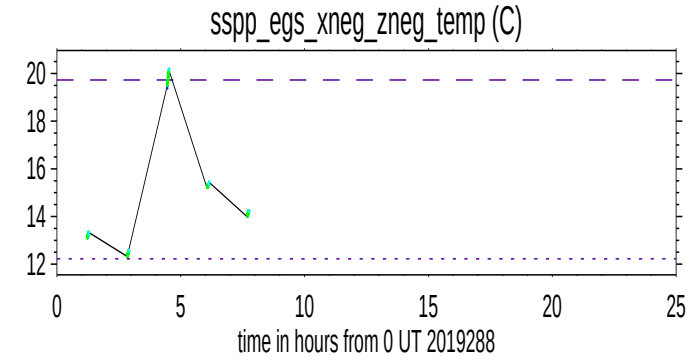

mu_cpu_brd_temp (C)
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

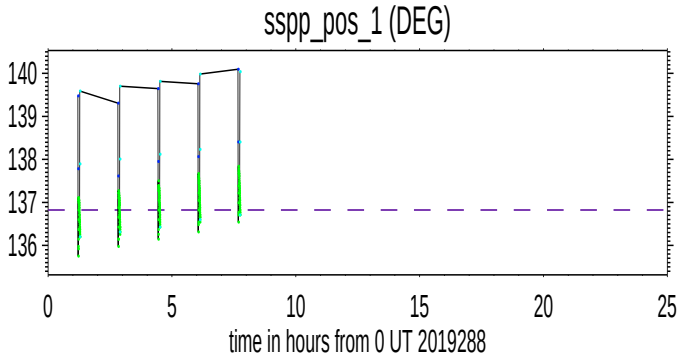

egs_5 (V)
5.01
5.00
4.99
4.98
4.97
0
5
10
15
20
25
time in hours from 0 UT 2019288

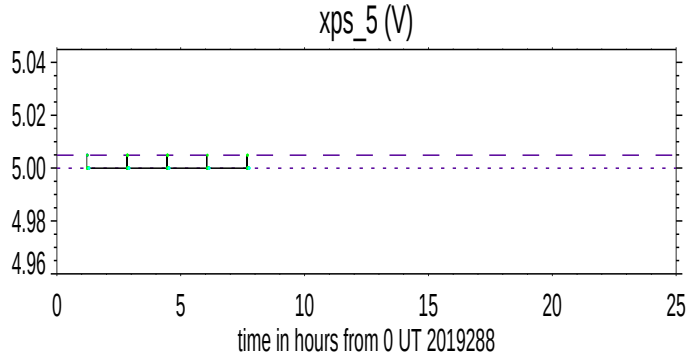

egs_lamp_mon (V)
0.1
0.0
-0.1
-0.2
-0.3
0
5
10
15
20
25
time in hours from 0 UT 2019288

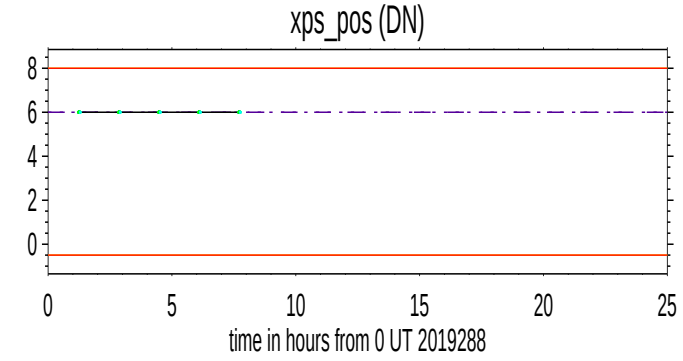

egs_hv_mon (V)
2.10
2.05
2.00
1.95
1.90
1.85
0
5
10
15
20
25
time in hours from 0 UT 2019288

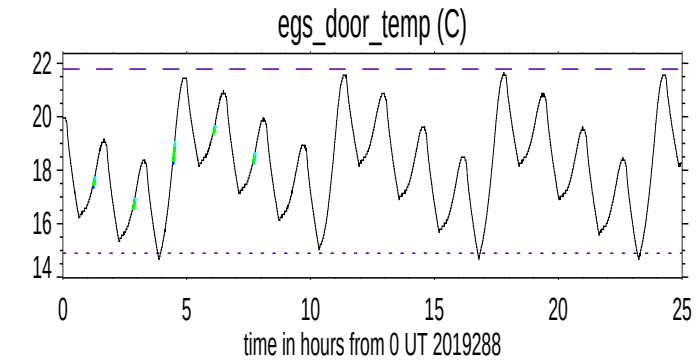

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019288

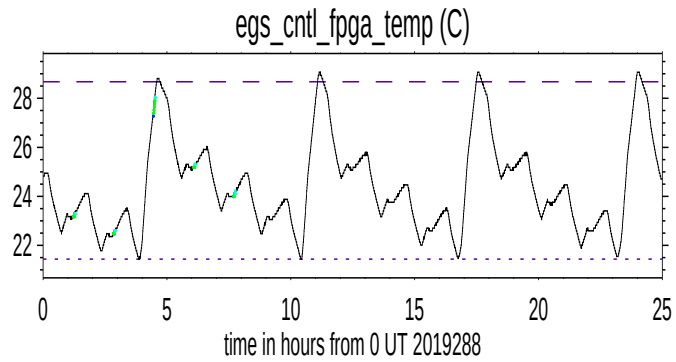

sspp_egs_xneg_zneg_temp (C)
20
18
16
14
12
0
5
10
15
20
25
time in hours from 0 UT 2019288

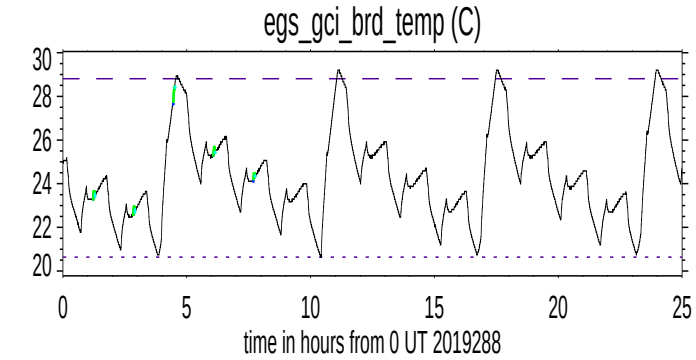

sspp_pos_1 (DEG)
140
139
138
137
136
0
5
10
15
20
25
time in hours from 0 UT 2019288

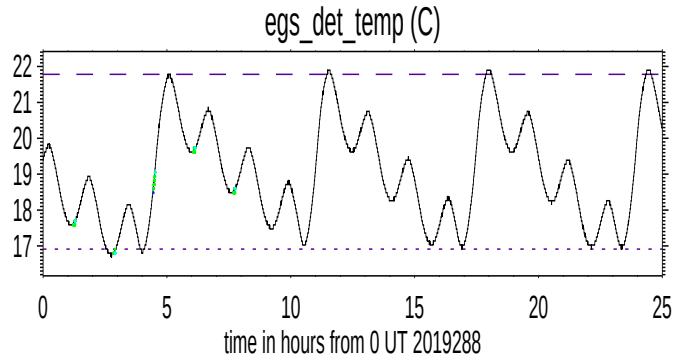

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019288

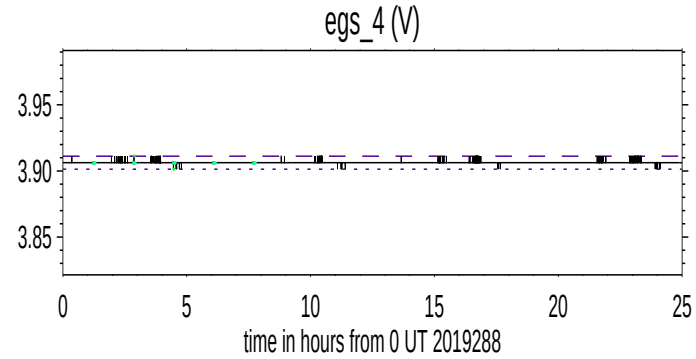

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2019288

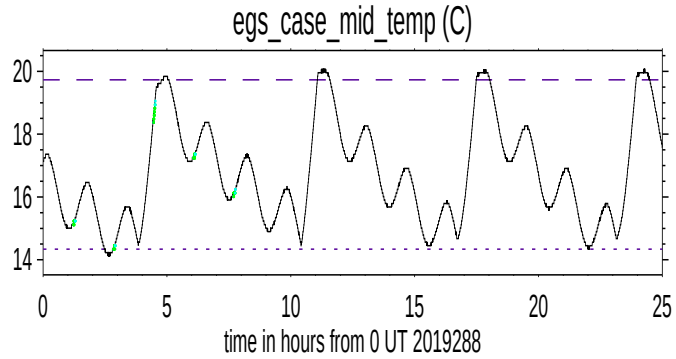

egs_door_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

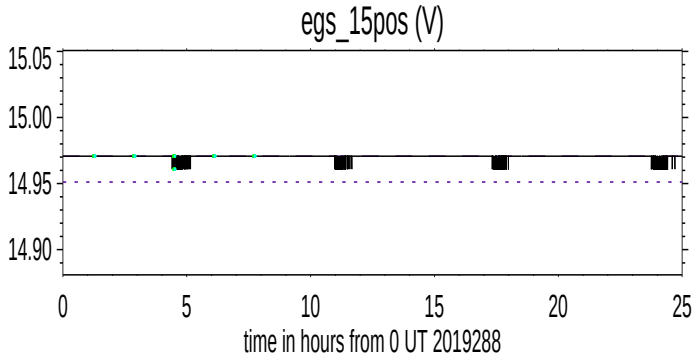

egs_cntl_fpga_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019288

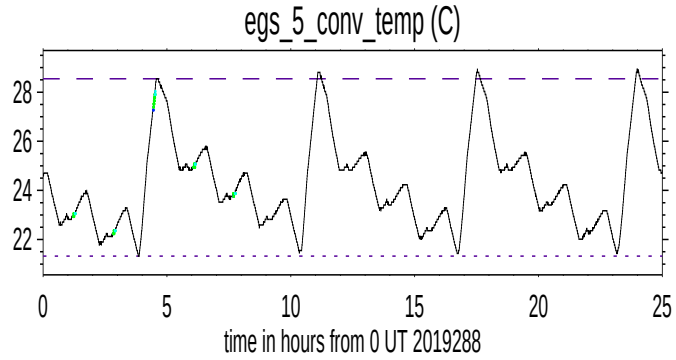

egs_gci_brd_temp (C)
30
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019288

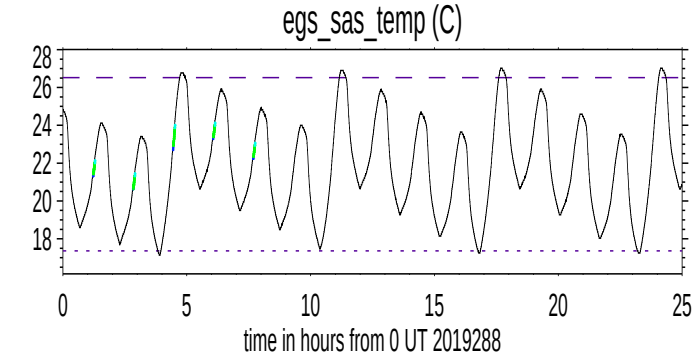

egs_det_temp (C)
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2019288

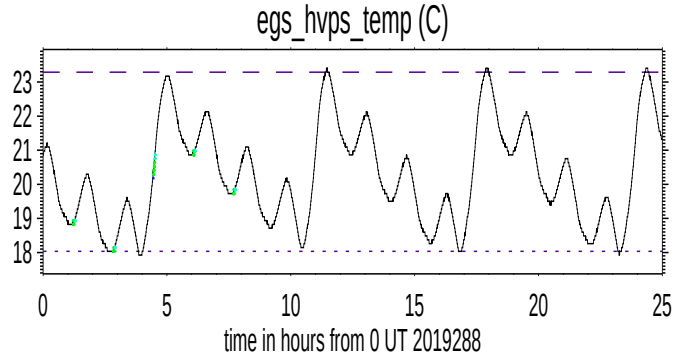

egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019288

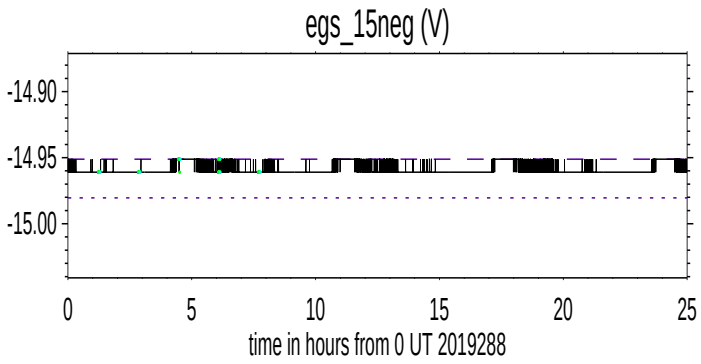

egs_case_mid_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

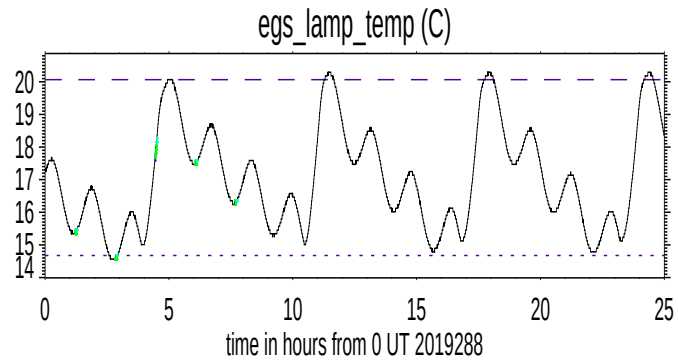

egs_15pos (V)
15.05
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2019288

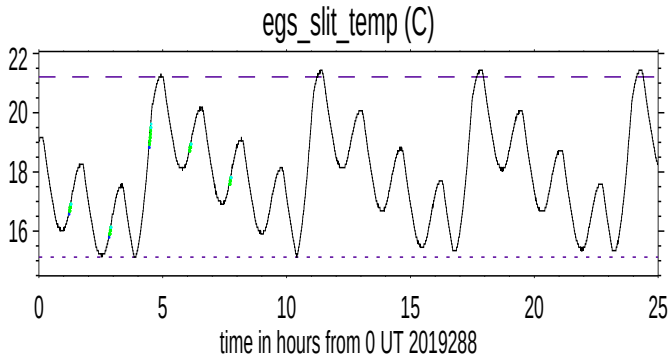

egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019288

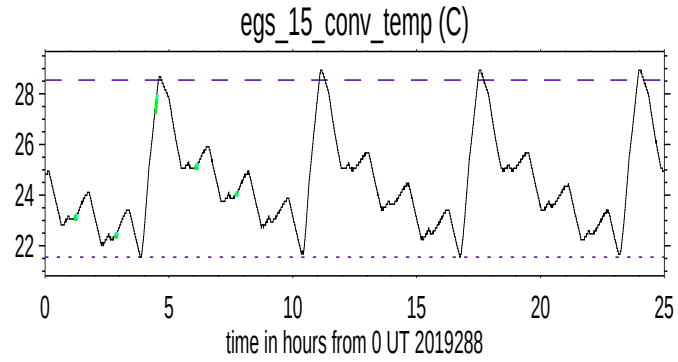

egs_sas_temp (C)
28
26
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

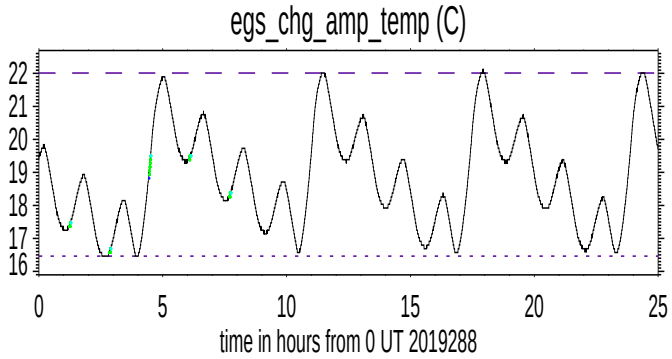

egs_hvps_temp (C)
23
22
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

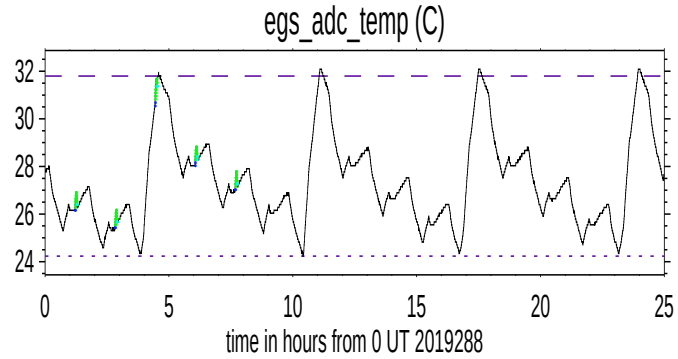

egs_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2019288

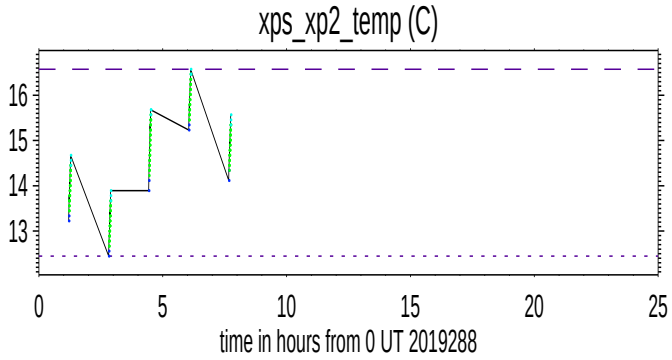

egs_lamp_temp (C)
20 19 18 17 16 15 14
0 5 10 15 20 25
time in hours from 0 UT 2019288

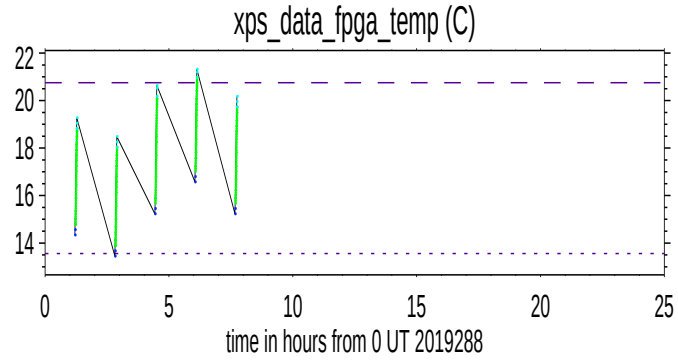

egs_slit_temp (C)
22 20 18 16
0 5 10 15 20 25
time in hours from 0 UT 2019288

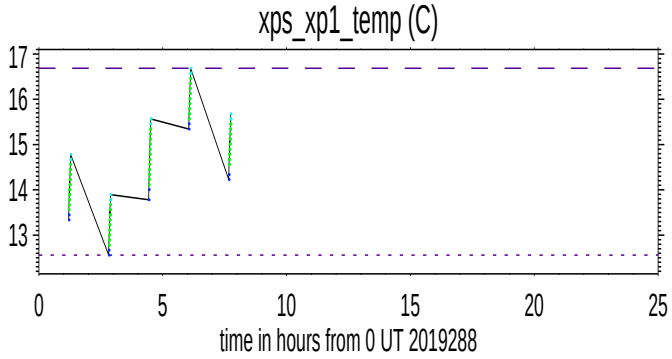

egs_15_conv_temp (C)
28 26 24 22
0 5 10 15 20 25
time in hours from 0 UT 2019288

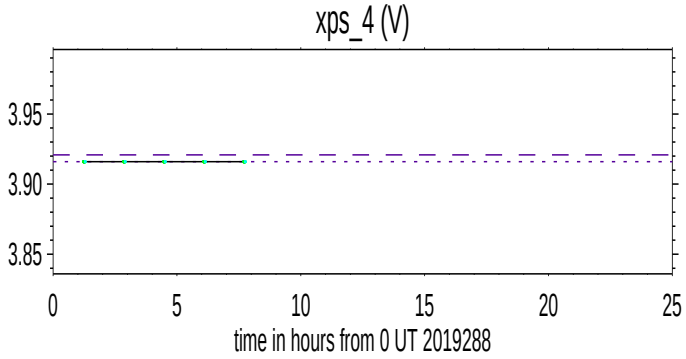

egs_chg_amp_temp (C)
22 21 20 19 18 17 16
0 5 10 15 20 25
time in hours from 0 UT 2019288

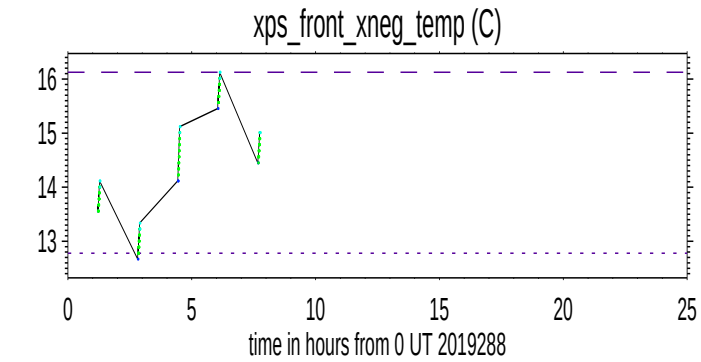

egs_adc_temp (C)
32 30 28 26 24
0 5 10 15 20 25
time in hours from 0 UT 2019288

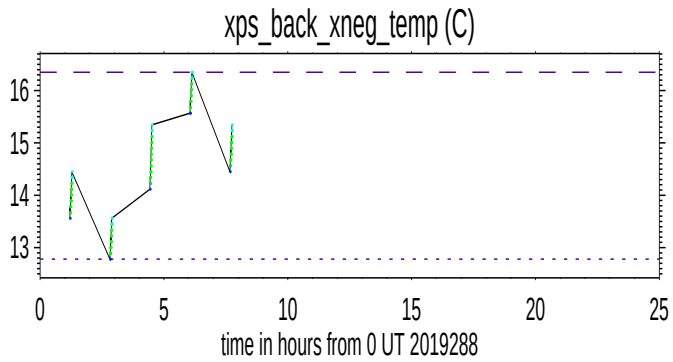

xps_xp2_temp (C)
16 15 14 13
0 5 10 15 20 25
time in hours from 0 UT 2019288

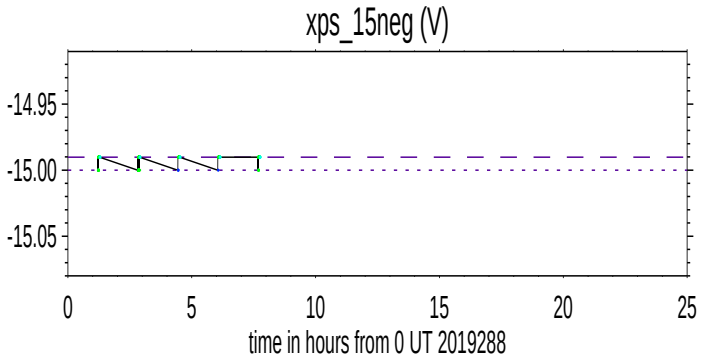

xps_data_fpga_temp (C)
22 20 18 16 14
0 5 10 15 20 25
time in hours from 0 UT 2019288

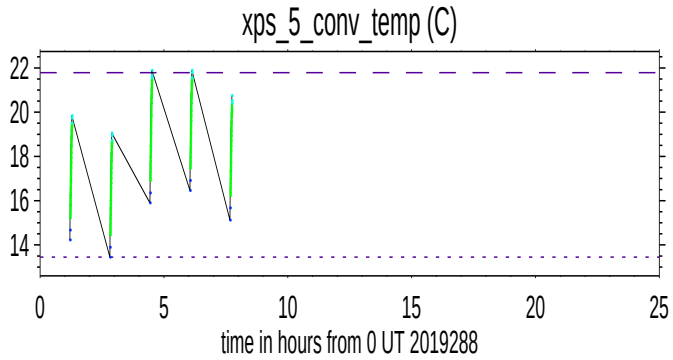

xps_xp1_temp (C)
17 16 15 14 13
0 5 10 15 20 25
time in hours from 0 UT 2019288

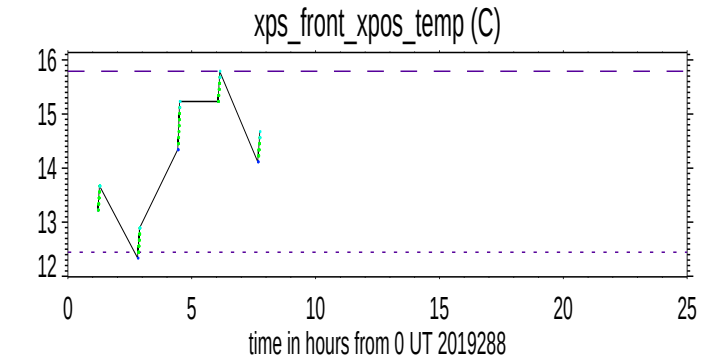

xps_4 (V)
3.95 3.90 3.85
0 5 10 15 20 25
time in hours from 0 UT 2019288

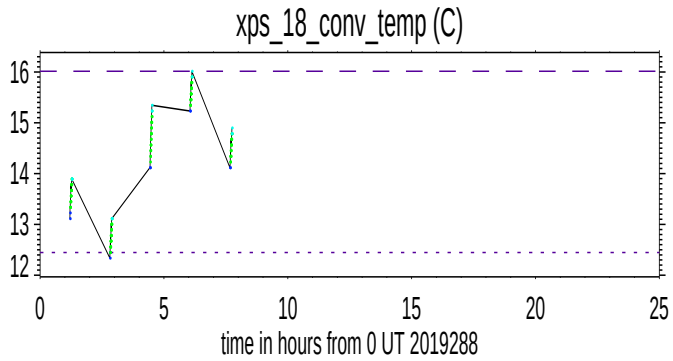

xps_front_xneg_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

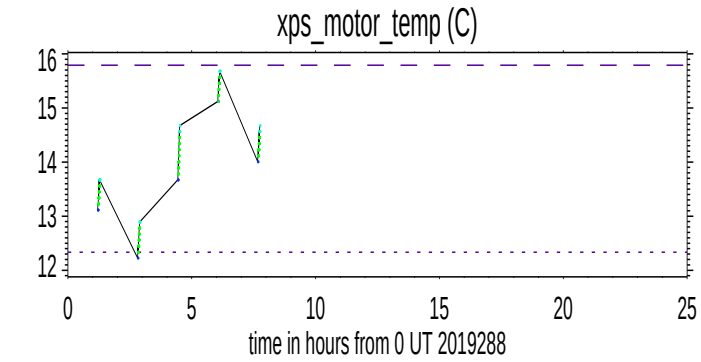

xps_back_xneg_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

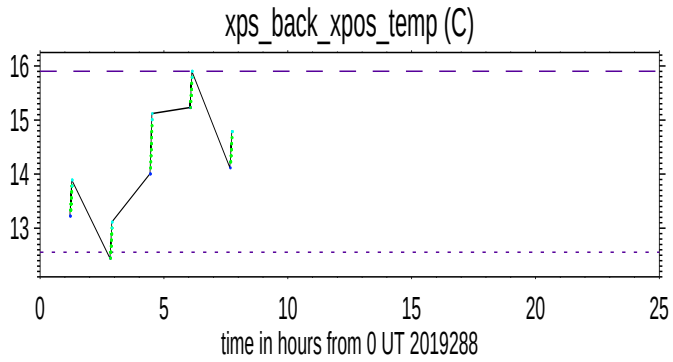

xps_15neg (V)
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2019288

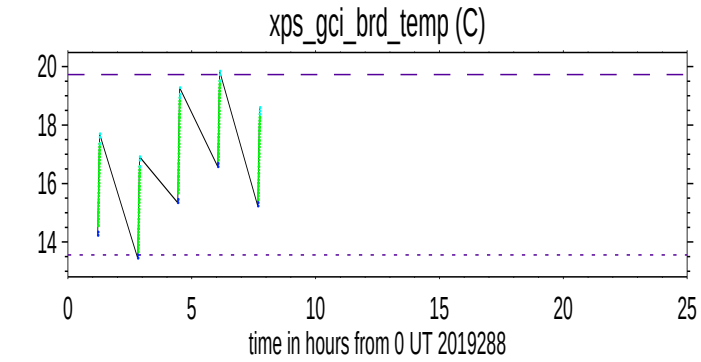

xps_5_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

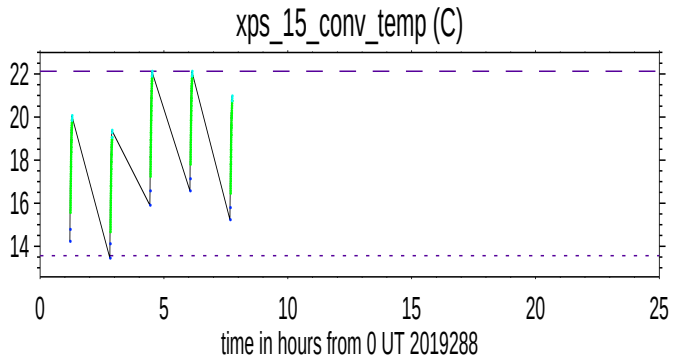

xps_front_xpos_temp (C)
16
15
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2019288

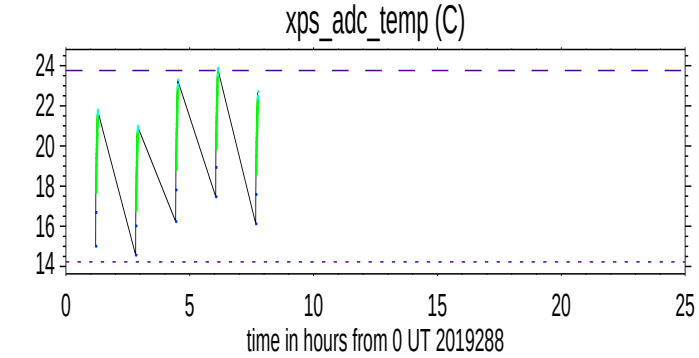

xps_18_conv_temp (C)
16
15
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2019288

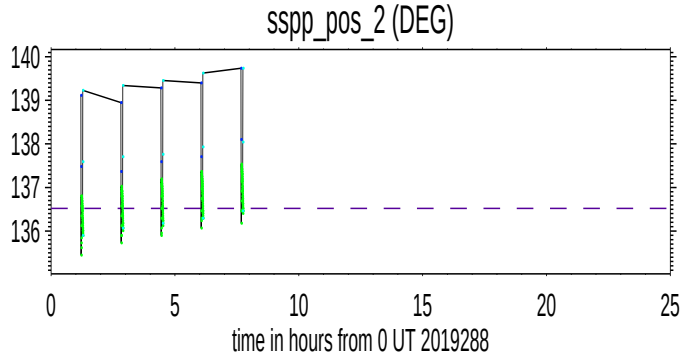

xps_motor_temp (C)
16
15
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2019288

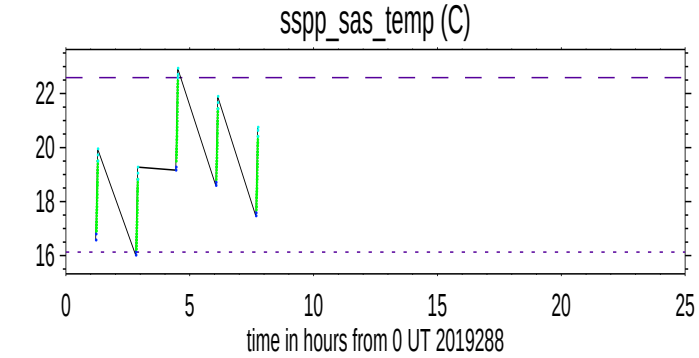

xps_back_xpos_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

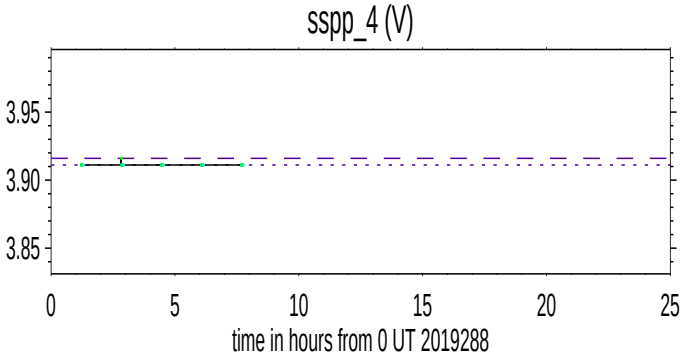

xps_gci_brd_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

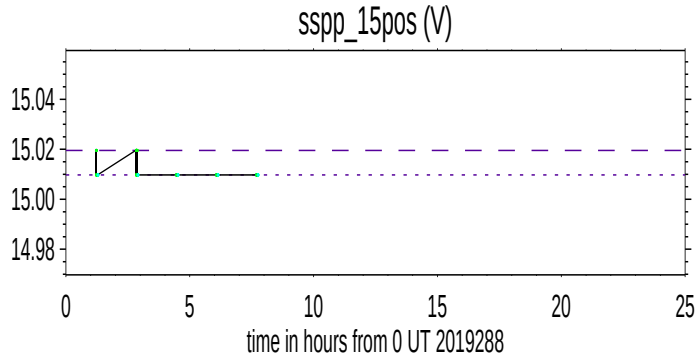

xps_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

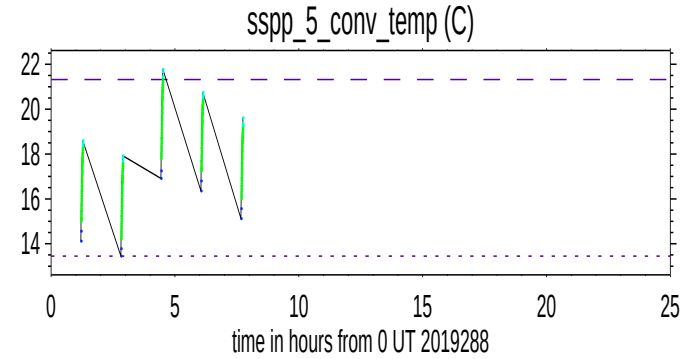

xps_adc_temp (C)
24
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

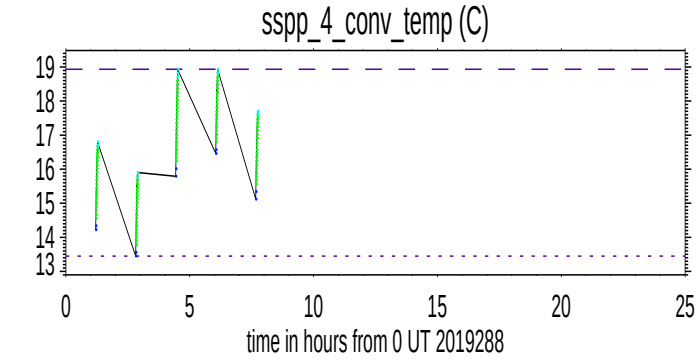

sspp_pos_2 (DEG)
140
139
138
137
136
0
5
10
15
20
25
time in hours from 0 UT 2019288

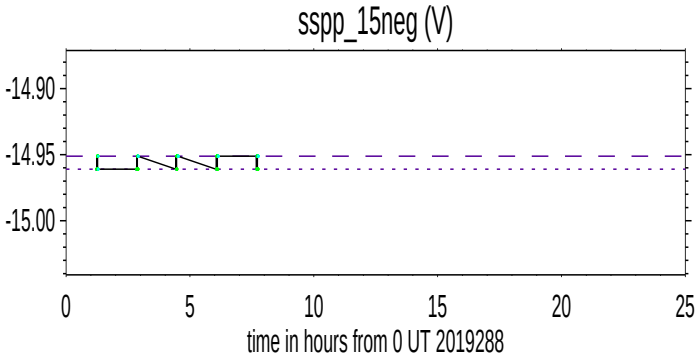

sspp_sas_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2019288

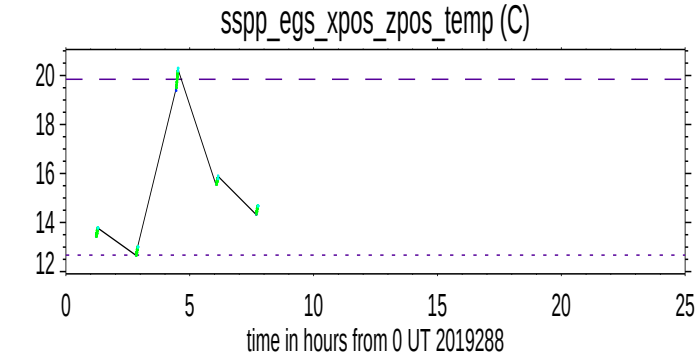

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019288

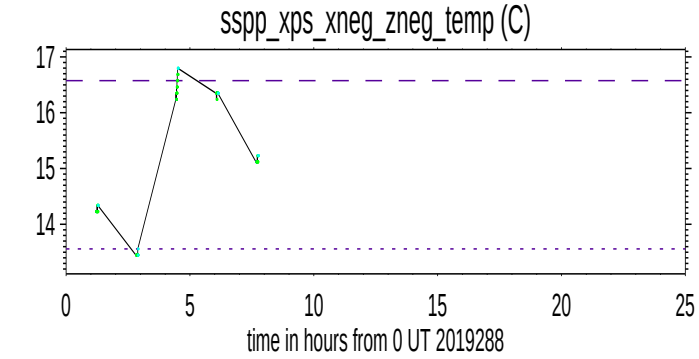

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2019288

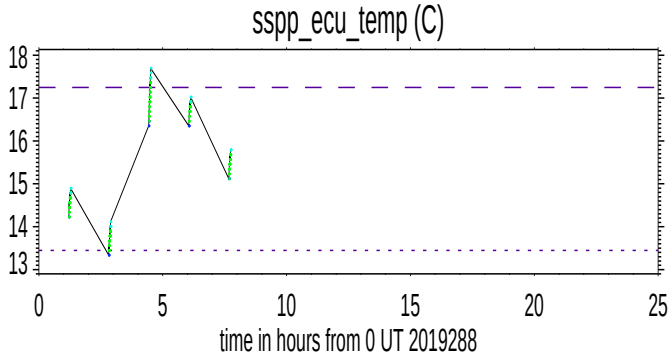

sspp_5_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

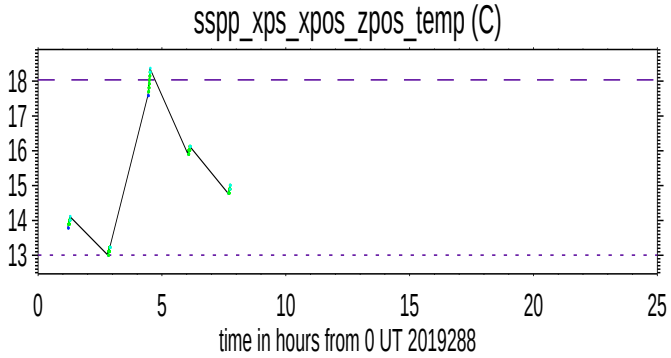

sspp_4_conv_temp (C)
19
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

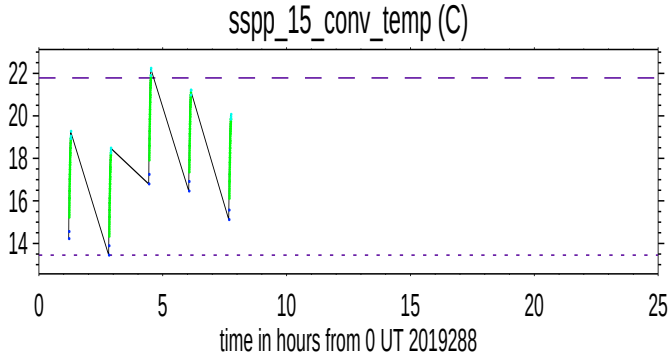

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019288

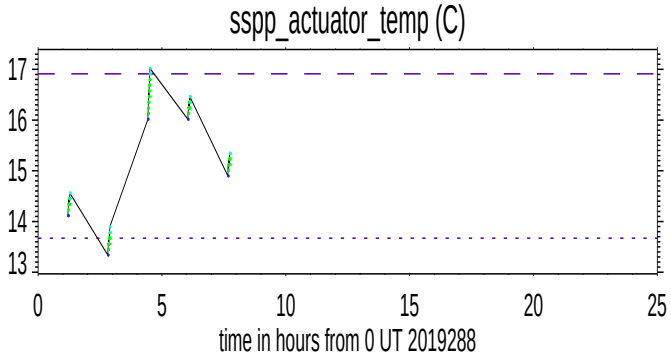

sspp_egs_xpos_zpos_temp (C)
20
18
16
14
12
0
5
10
15
20
25
time in hours from 0 UT 2019288

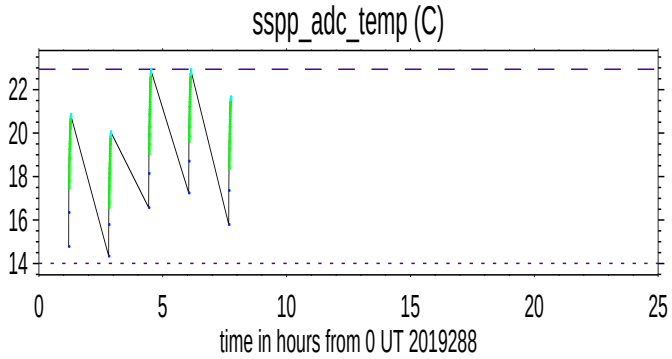

sspp_xps_xneg_zneg_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

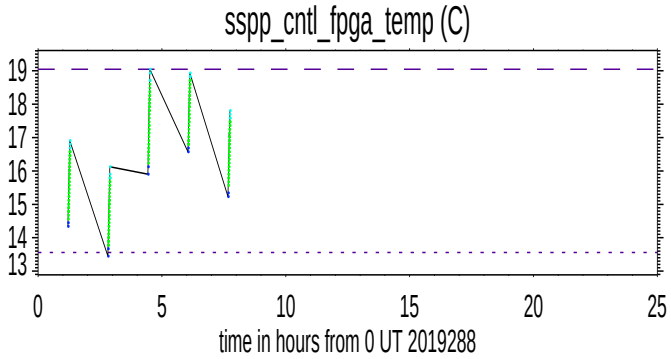

sspp_ecu_temp (C)
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

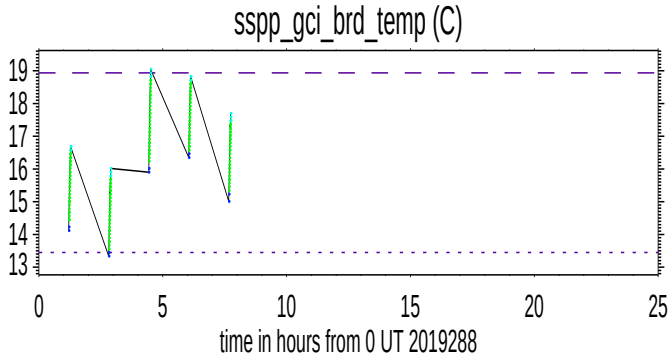

sspp_xps_xpos_zpos_temp (C)
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

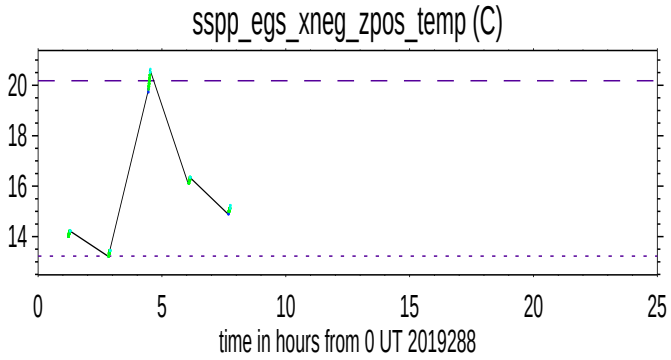

sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

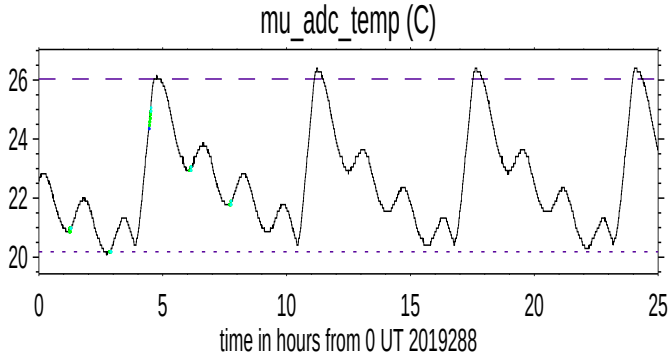

sspp_actuator_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

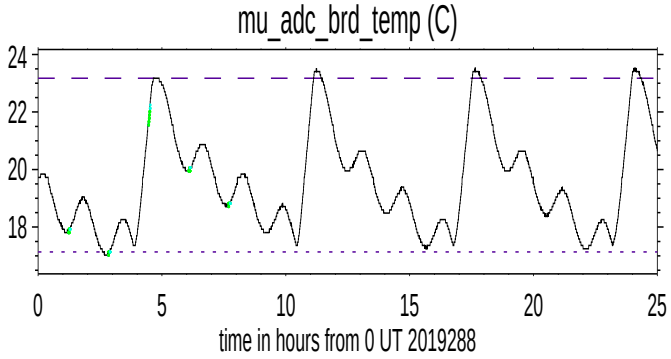

sspp_adc_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

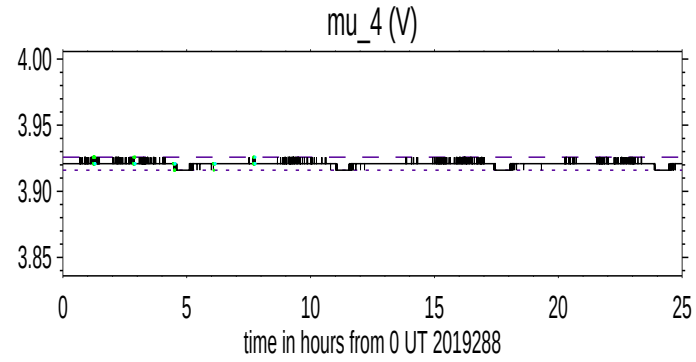

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

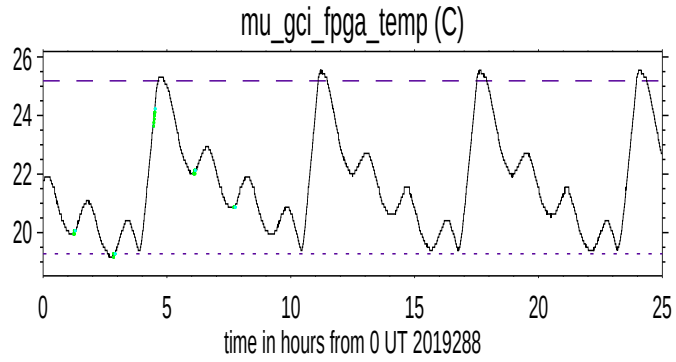

sspp_gci_brd_temp (C)
19
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019288

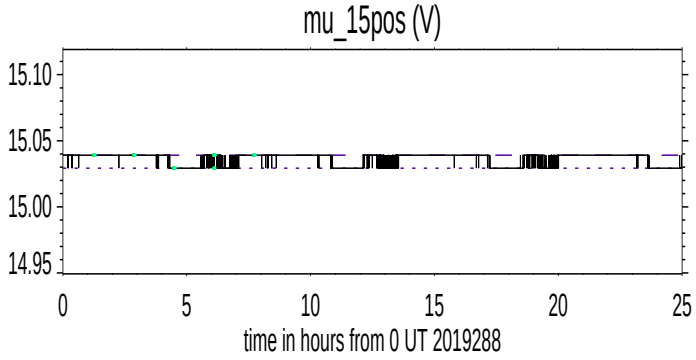

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019288

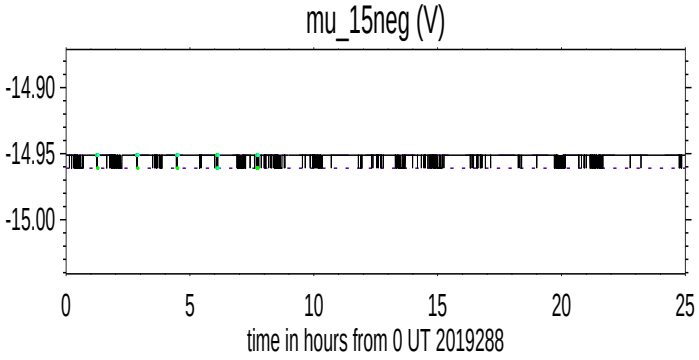

mu_adc_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019288

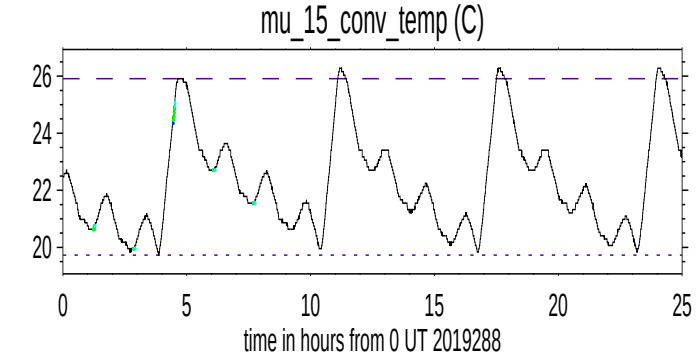

mu_adc_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

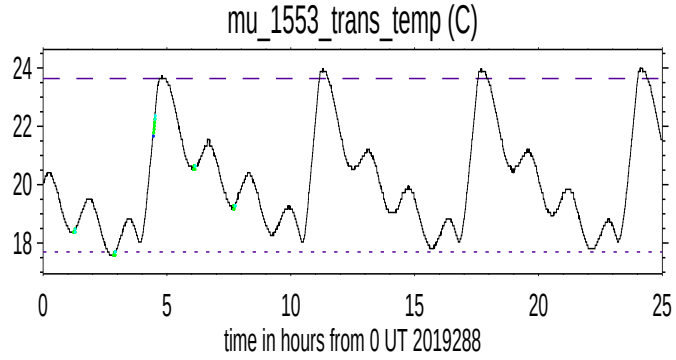

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019288

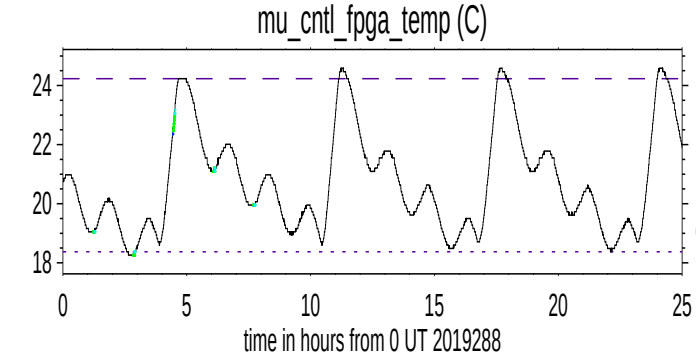

mu_gci_fpga_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019288

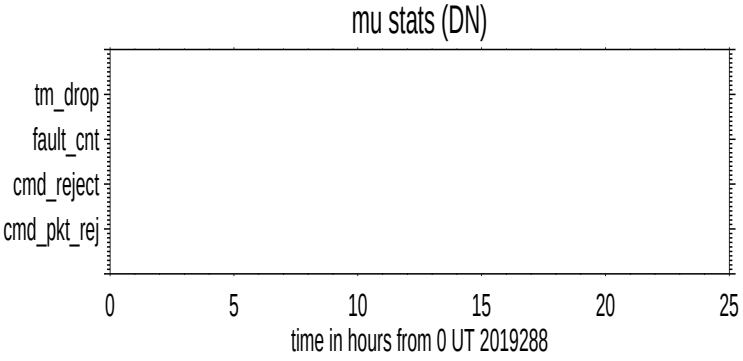

mu_15pos (V)
15.10
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2019288

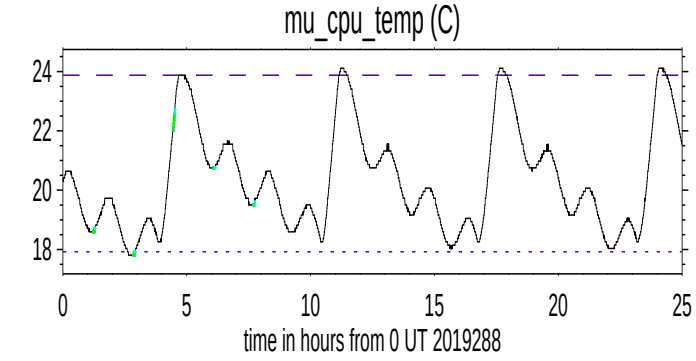

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019288

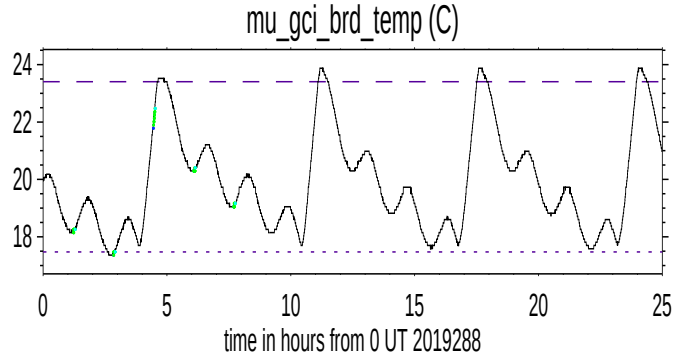

mu_15_conv_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019288

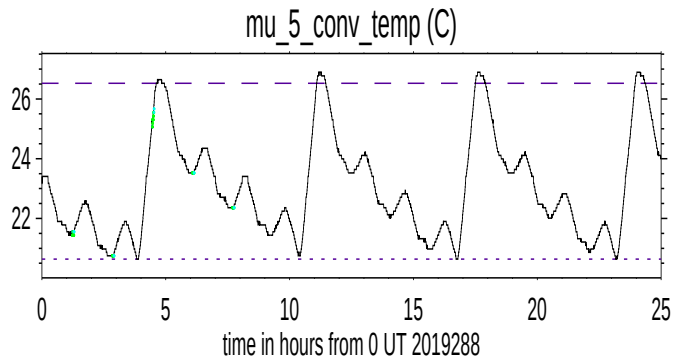

mu_1553_trans_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

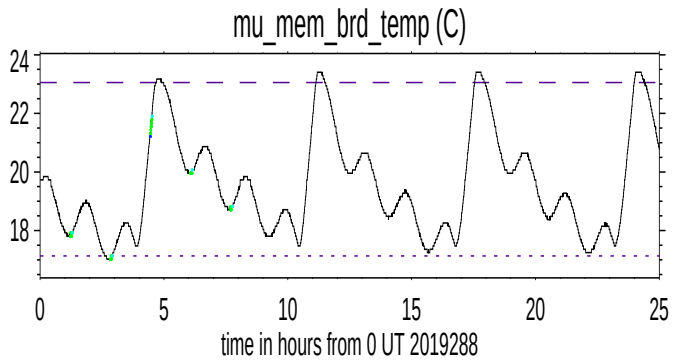

mu_cntl_fpga_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

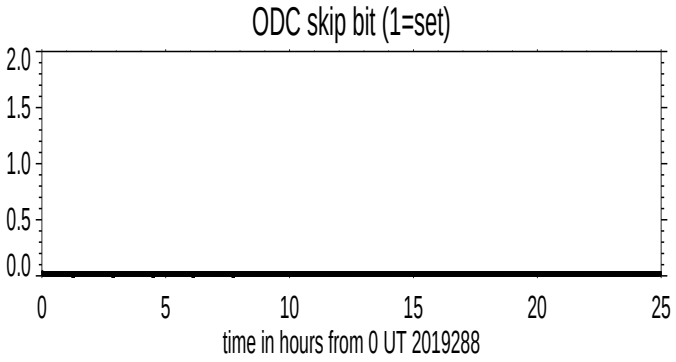

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2019288

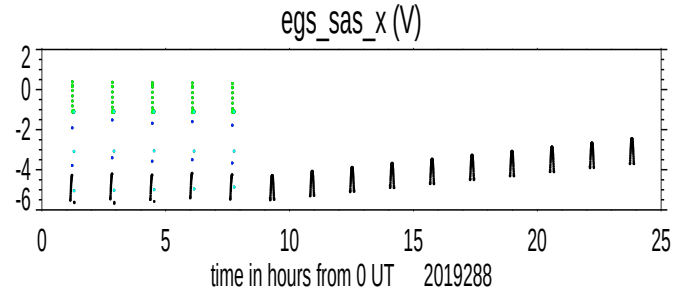

mu_cpu_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

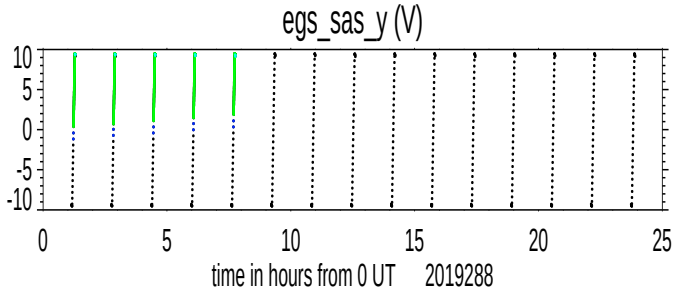

mu_gci_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

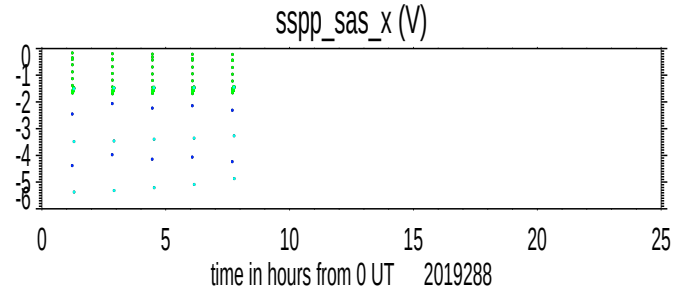

mu_5_conv_temp (C)
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019288

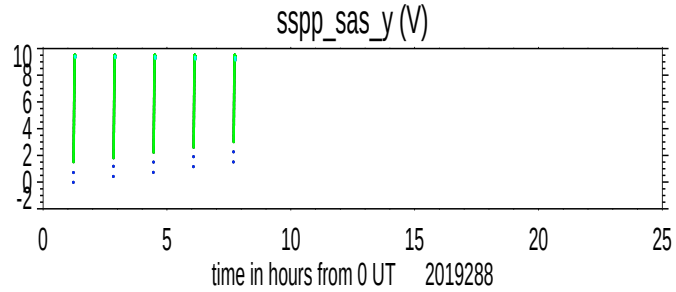

mu_mem_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019288

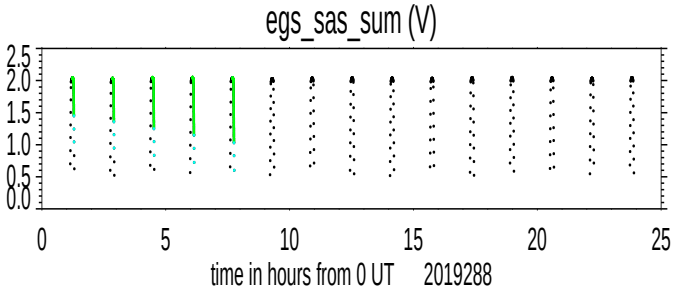

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2019288

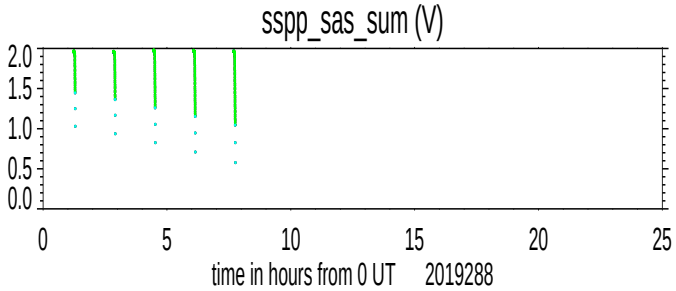

egs_sas_x (V)
time in hours from 0 UT 2019288

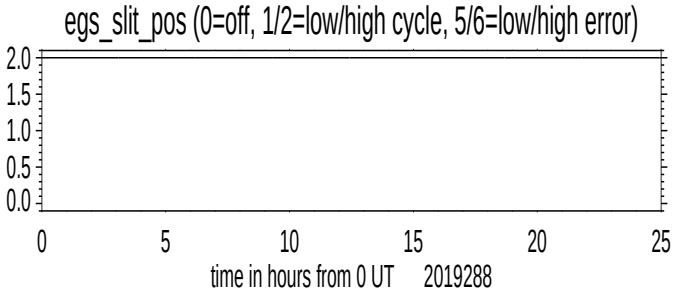

egs_sas_y (V)
time in hours from 0 UT 2019288

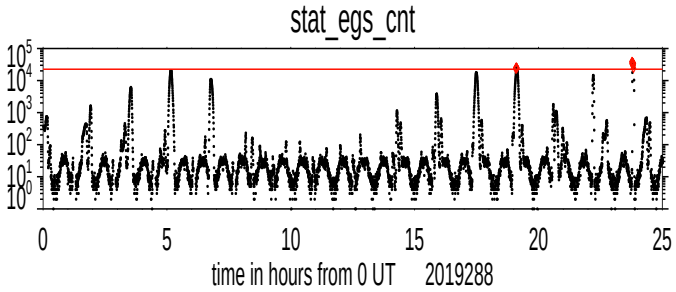

sspp_sas_x (V)
time in hours from 0 UT 2019288

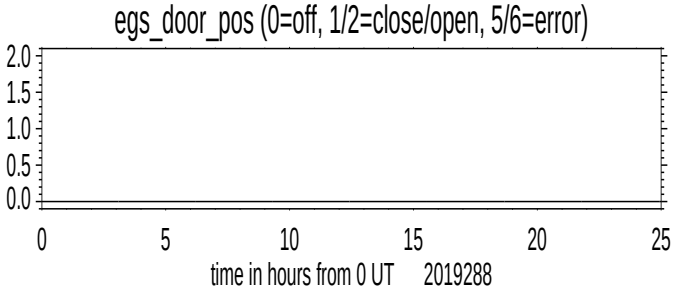

sspp_sas_y (V)
time in hours from 0 UT 2019288

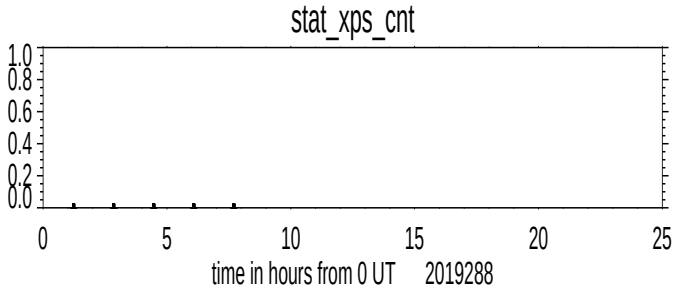

egs_sas_sum (V)
time in hours from 0 UT 2019288

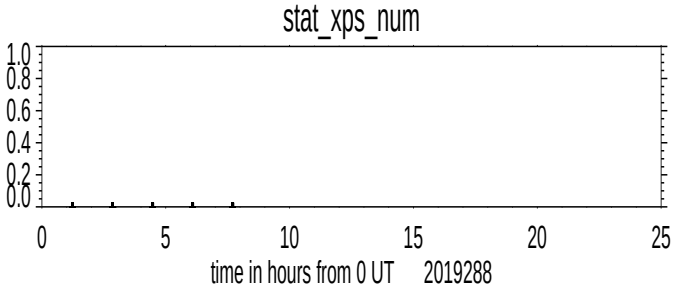

sspp_sas_sum (V)
time in hours from 0 UT 2019288

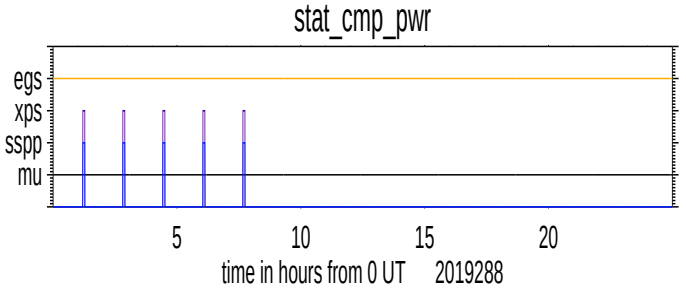

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2019288


stat_egs_cnt
time in hours from 0 UT 2019288

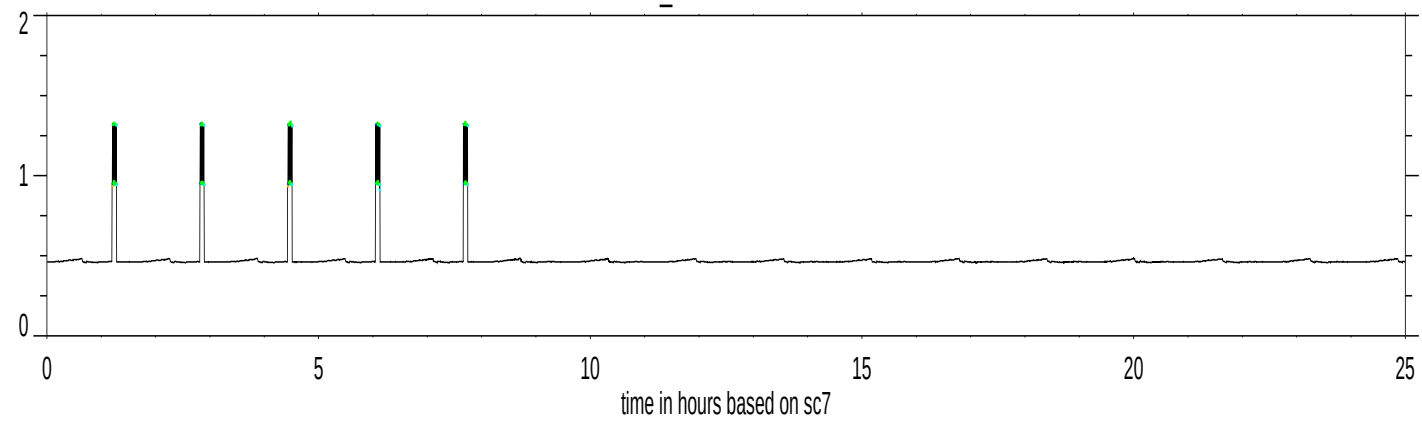

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2019288


stat_xps_cnt
time in hours from 0 UT 2019288

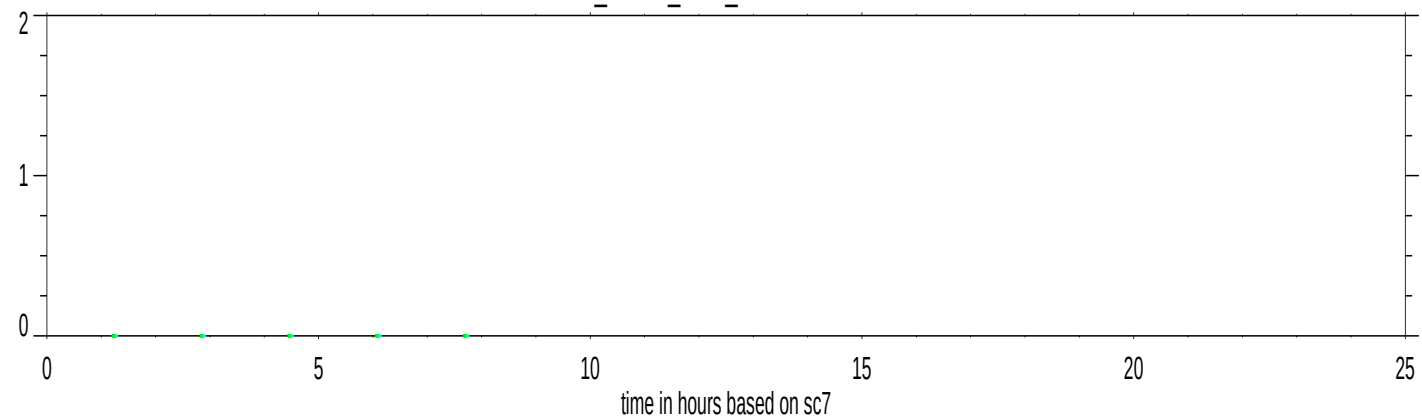

stat_xps_num
time in hours from 0 UT 2019288


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2019288

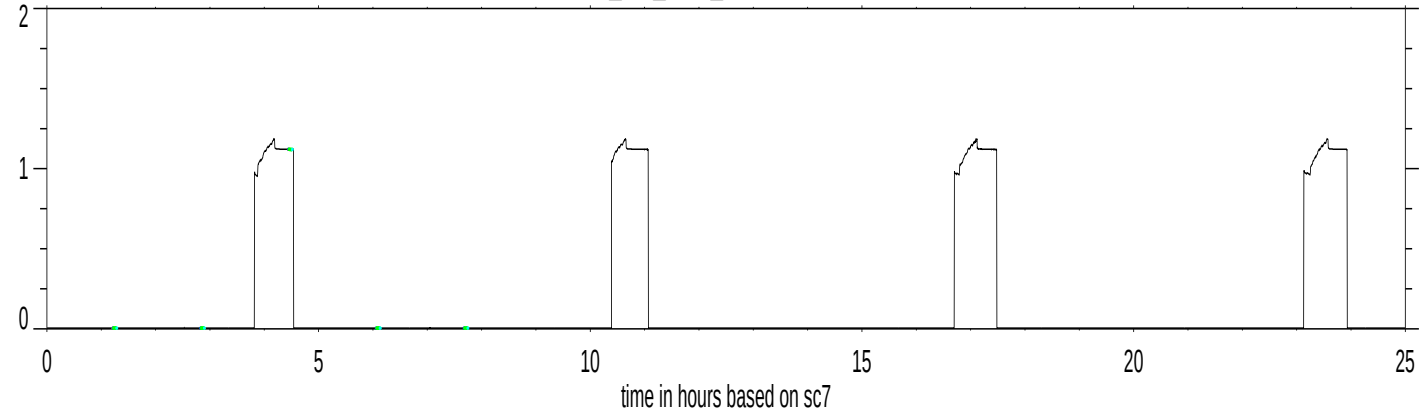
SEE_CUR 2019288



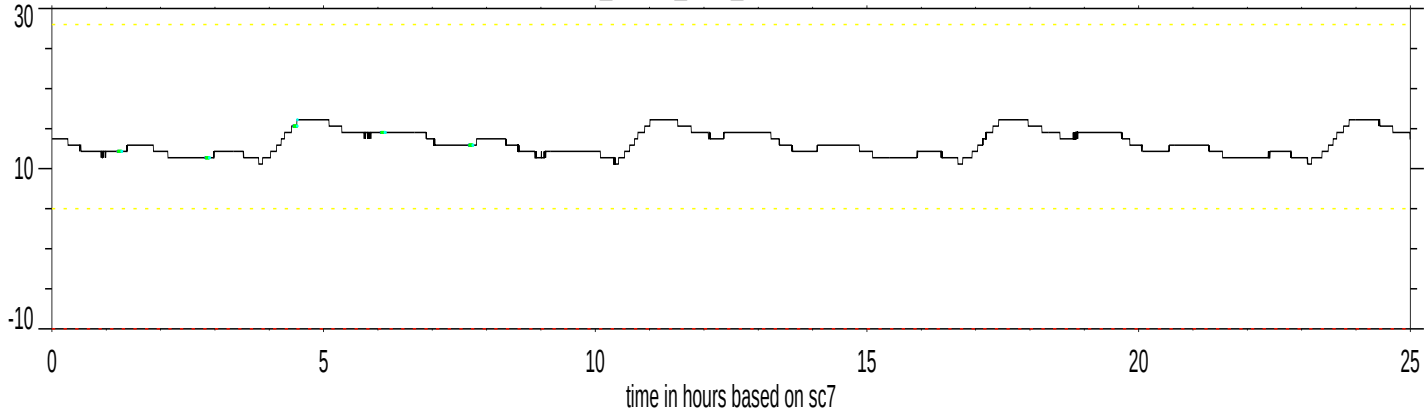
SEE_SURV_HTR_CUR 2019288



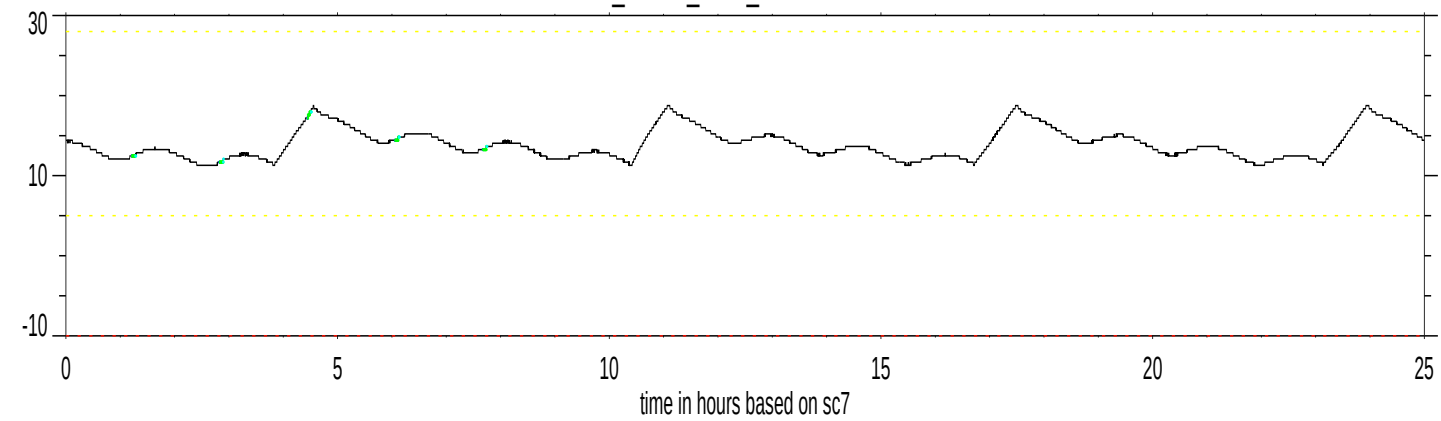
SEE_OP_HTR_CUR 2019288



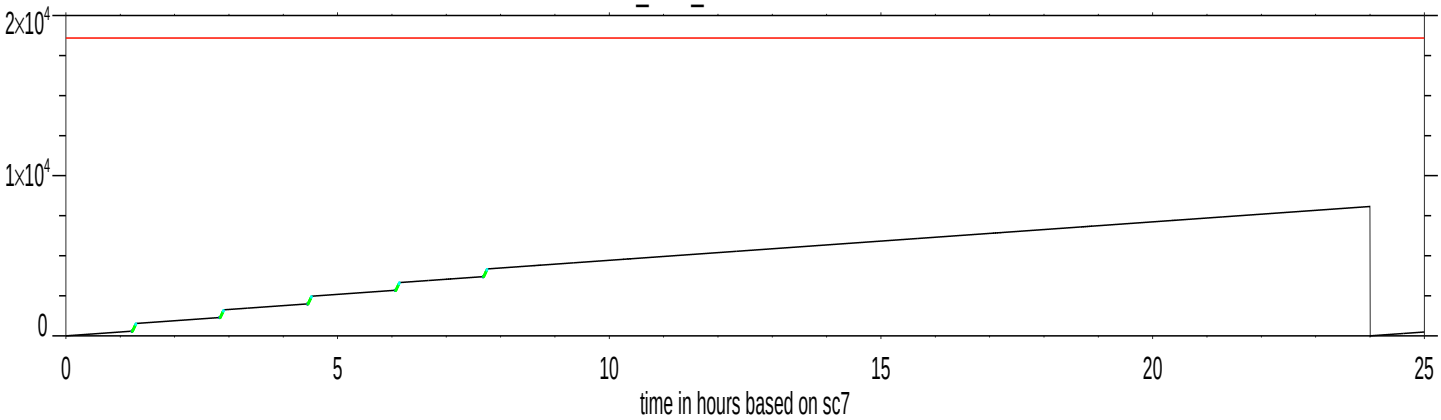
SSPP_BHND_XPS_TEMP 2019288



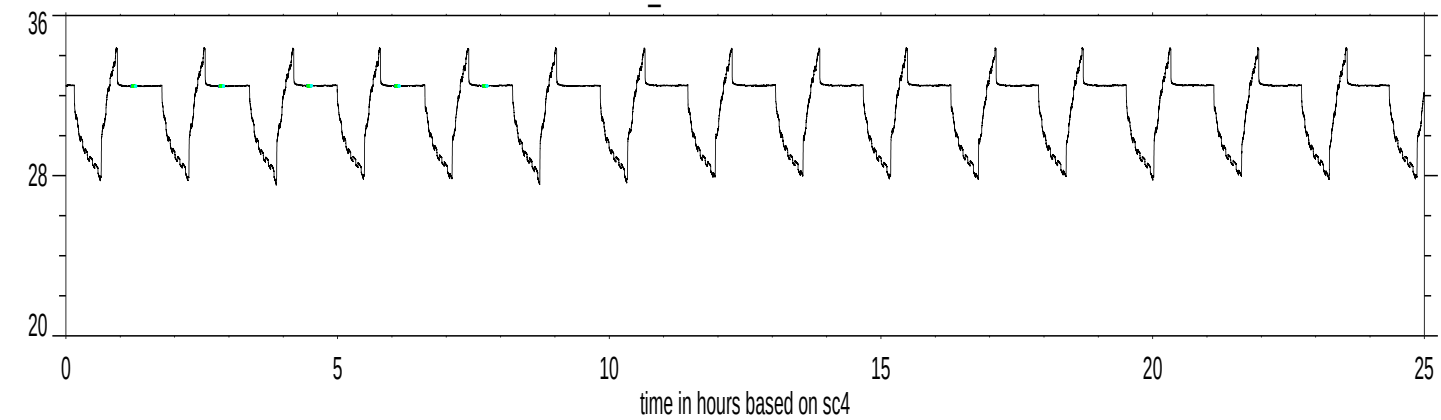
SSPP_BHND_MTR_TEMP 2019288



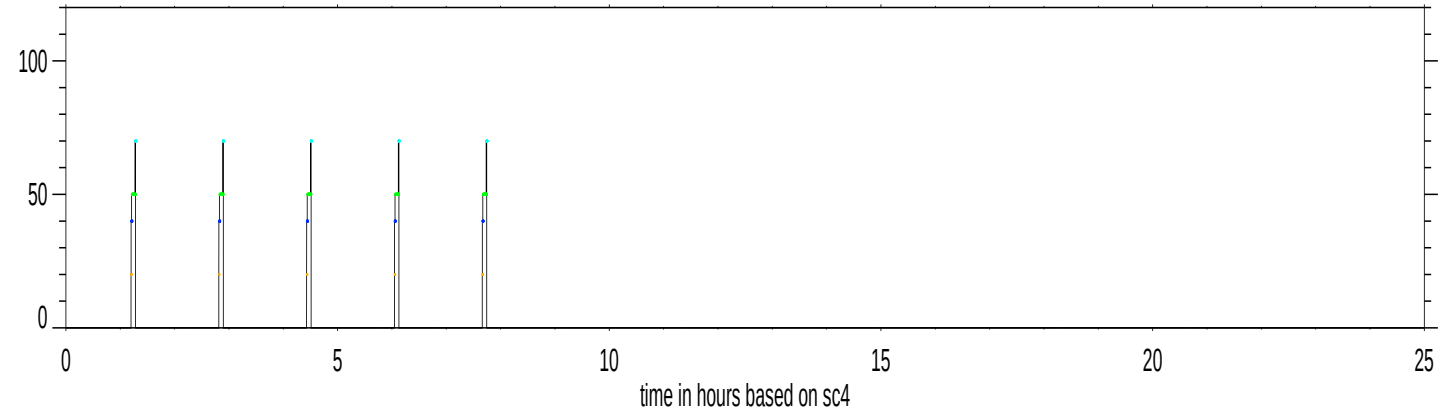
SEE_PKT_COUNT 2019288

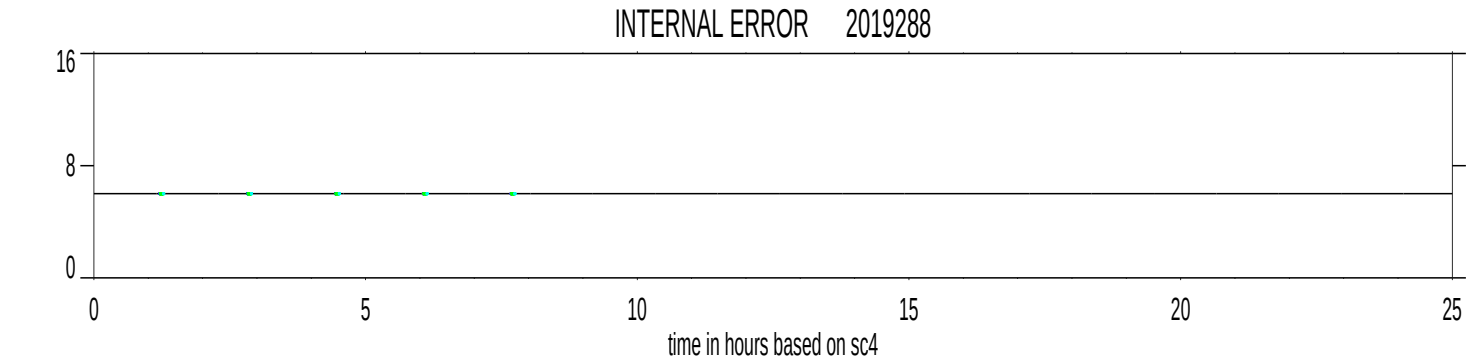


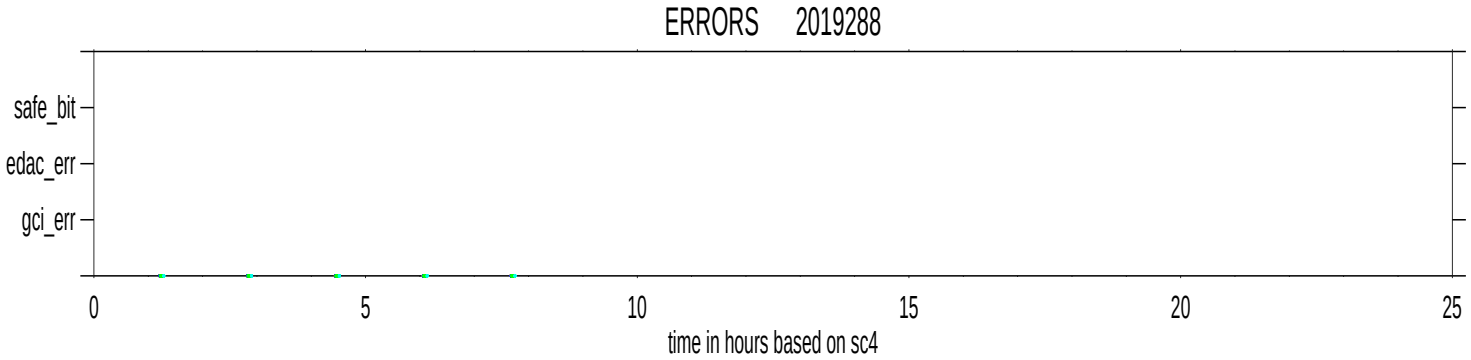
BUS_VOLTAGE 2019288

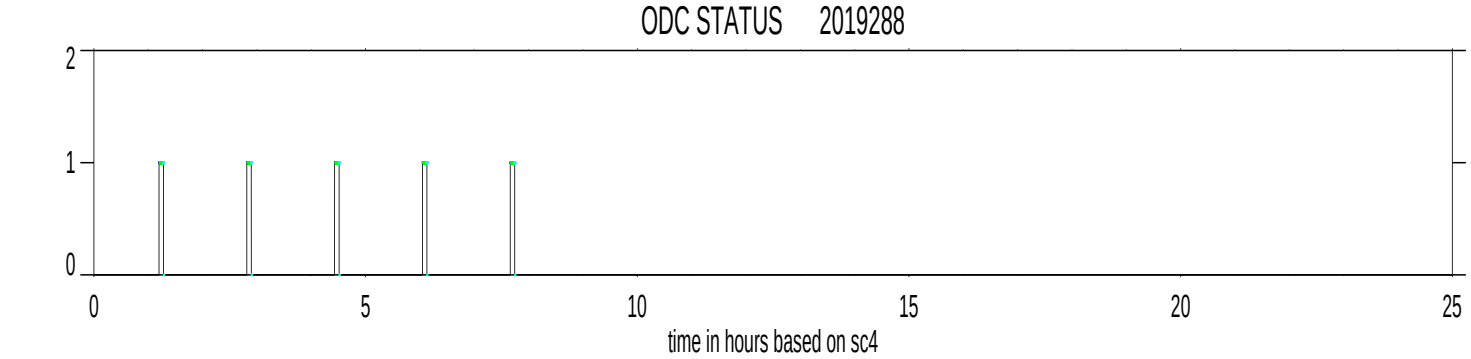


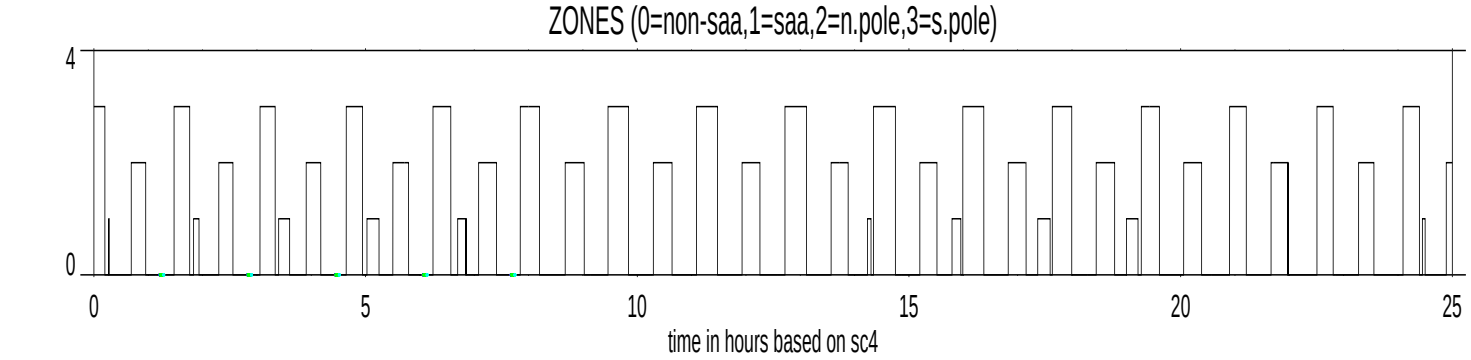
SEE_MU Operational Mode 2019288

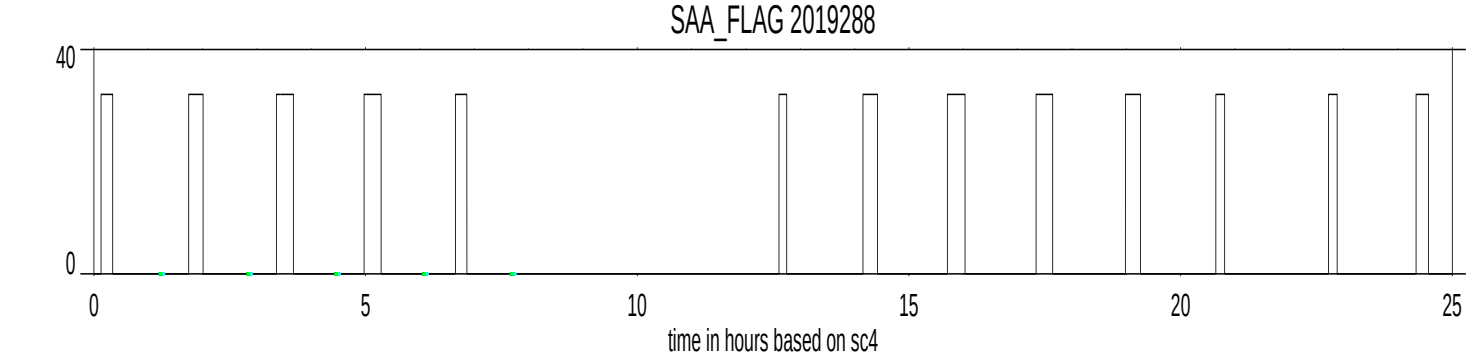


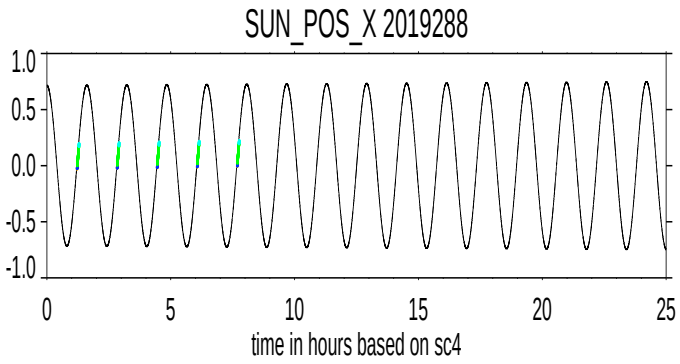

INTERNAL ERROR 2019288
16
8
0
0
5
10
15
20
25
time in hours based on sc4

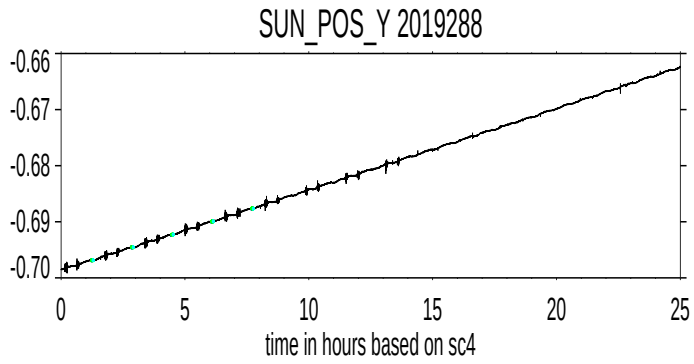

ERRORS 2019288
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

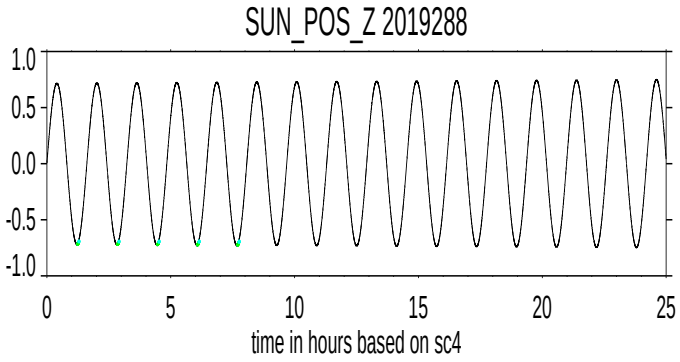

ODC STATUS 2019288
2
1
0
0
5
10
15
20
25
time in hours based on sc4

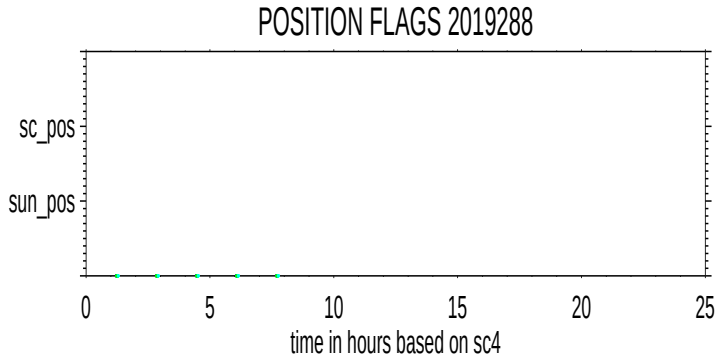

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

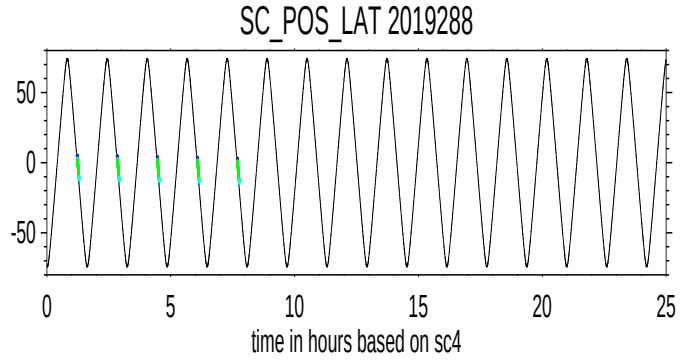

SAA_FLAG 2019288
40
0
0
5
10
15
20
25
time in hours based on sc4

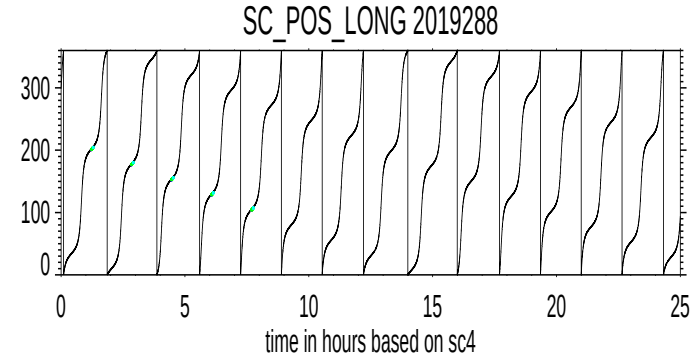

SUN_POS_X 2019288
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

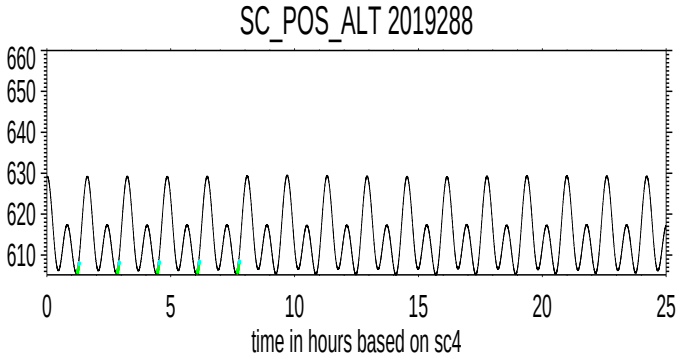

SUN_POS_Y 2019288
-0.66
-0.67
-0.68
-0.69
-0.70
0
5
10
15
20
25
time in hours based on sc4

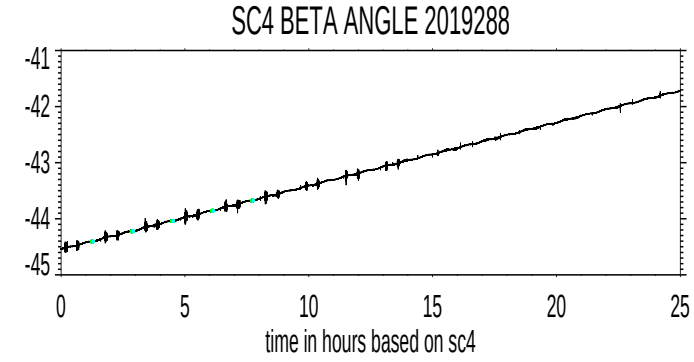

SUN_POS_Z 2019288
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2019288
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2019288
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2019288
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2019288
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2019288
-41
-42
-43
-44
-45
0
5
10
15
20
25
time in hours based on sc4