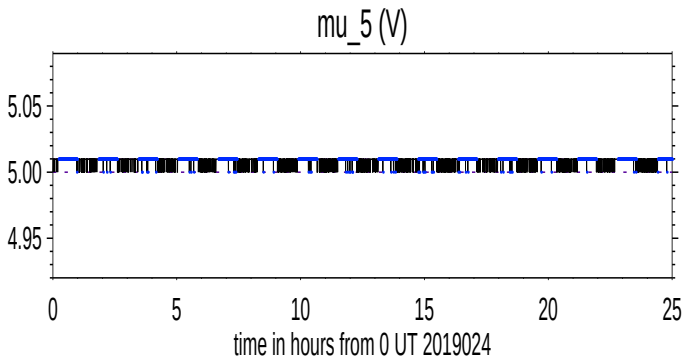
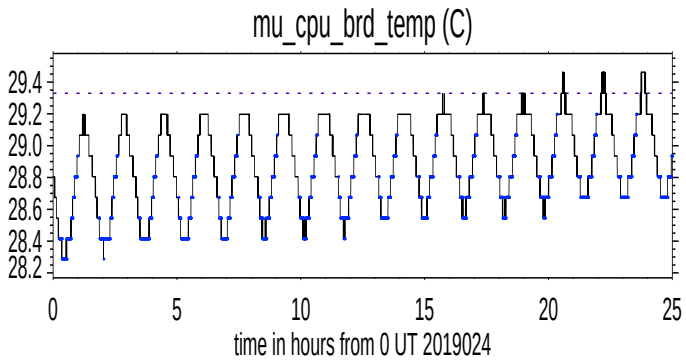
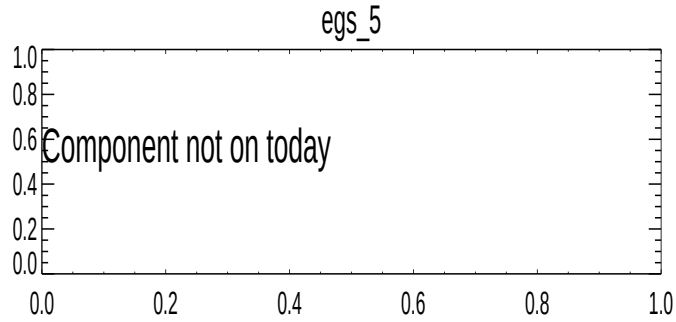
```
Information for      2019024
11:31:18.001: see_stat[1]: 11 internal error
20:07:22.002: see_stat[1]: 12 internal error
```

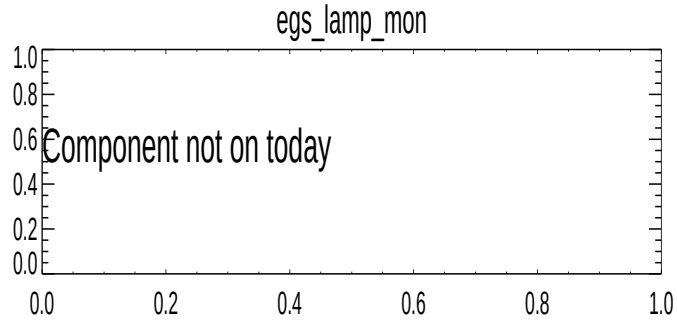
/export/timed/data/science_dp/tlm_limit/outoflimit_2019024_012.txt
Sat Feb 23 06:14:07 2019 1

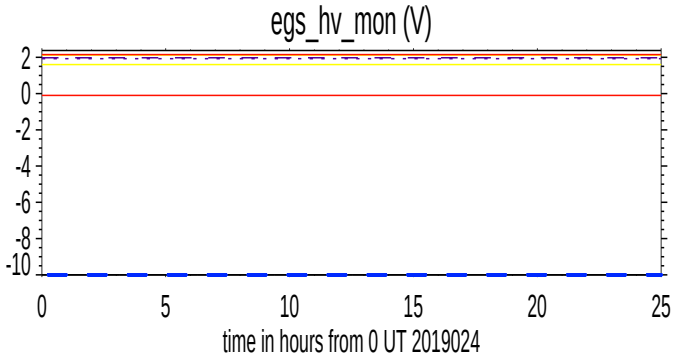
```
RH  OutOfLimit 1232324031 1232326716 reached timeout limit for ODC 190
RH  OutOfLimit 1232329838 1232332523 reached timeout limit for ODC 191
RH  OutOfLimit 1232335644 1232338329 reached timeout limit for ODC 192
RH  OutOfLimit 1232341451 1232344136 reached timeout limit for ODC 193
RH  OutOfLimit 1232347257 1232349942 reached timeout limit for ODC 194
RH  OutOfLimit 1232353063 1232355748 reached timeout limit for ODC 195
RH  OutOfLimit 1232358869 1232361554 reached timeout limit for ODC 196
RH  OutOfLimit 1232364675 1232367360 reached timeout limit for ODC 197
RH  OutOfLimit 1232370481 1232373166 reached timeout limit for ODC 198
RH  OutOfLimit 1232376273 1232378958 reached timeout limit for ODC 199
RH  OutOfLimit 1232382093 1232384778 reached timeout limit for ODC 200
RH  OutOfLimit 1232387884 1232390569 reached timeout limit for ODC 201
RH  OutOfLimit 1232393704 1232396389 reached timeout limit for ODC 202
RH  OutOfLimit 1232399495 1232402180 reached timeout limit for ODC 203
RH  OutOfLimit 1232405300 1232407985 reached timeout limit for ODC 204
```

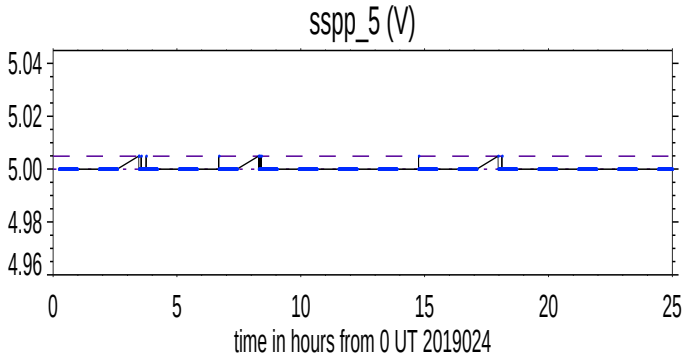

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2019024

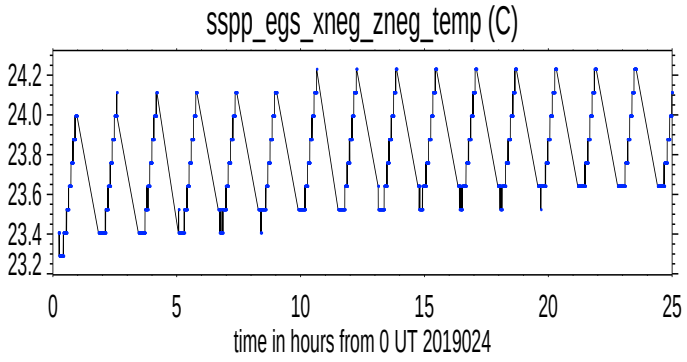

mu_cpu_brd_temp (C)
29.4
29.2
29.0
28.8
28.6
28.4
28.2
0
5
10
15
20
25
time in hours from 0 UT 2019024

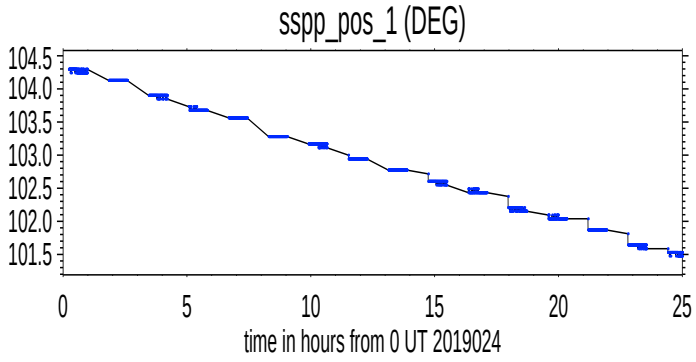

egs_5
Component not on today
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

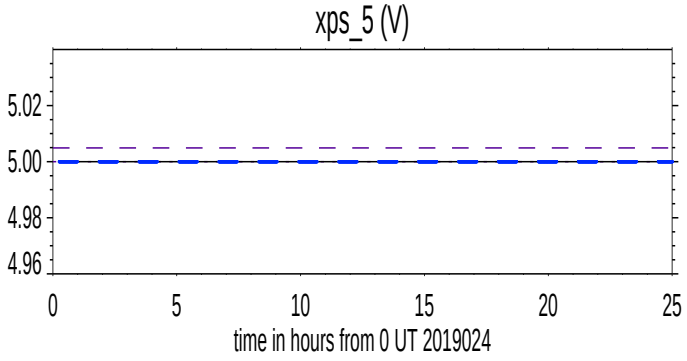

egs_lamp_mon
Component not on today
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

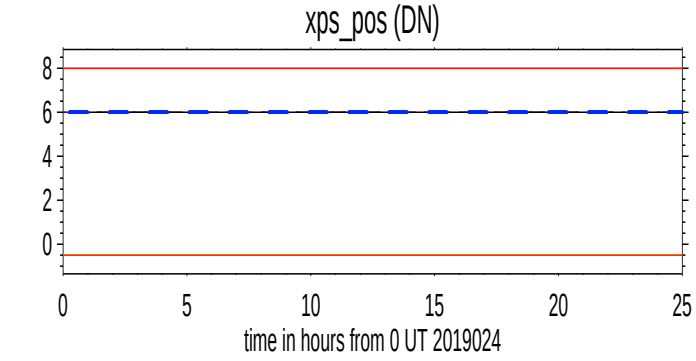

egs_hv_mon (V)
2
0
-2
-4
-6
-8
-10
0
5
10
15
20
25
time in hours from 0 UT 2019024

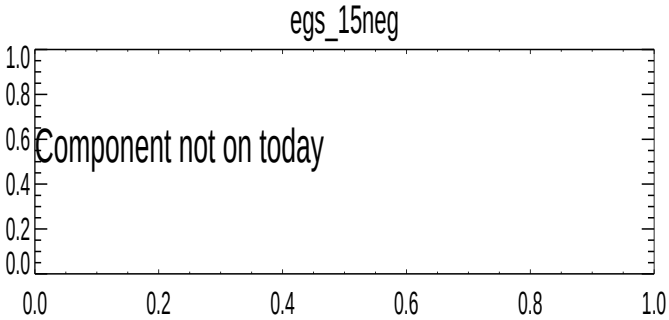

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019024

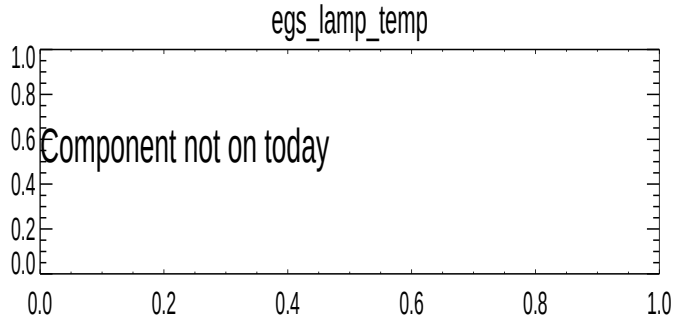

sspp_egs_xneg_zneg_temp (C)
24.2
24.0
23.8
23.6
23.4
23.2
0
5
10
15
20
25
time in hours from 0 UT 2019024

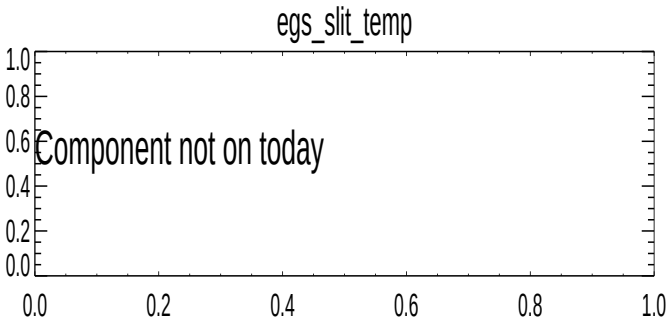

sspp_pos_1 (DEG)
104.5
104.0
103.5
103.0
102.5
102.0
101.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

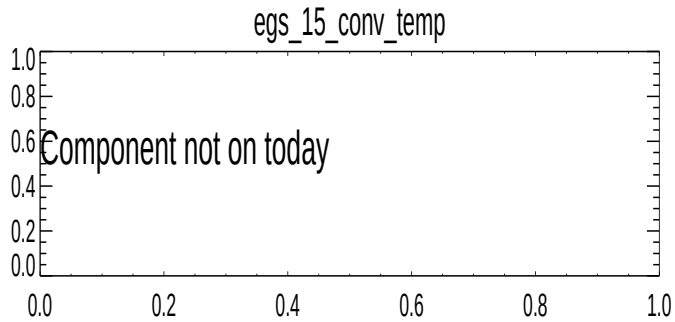

xps_5 (V)
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019024

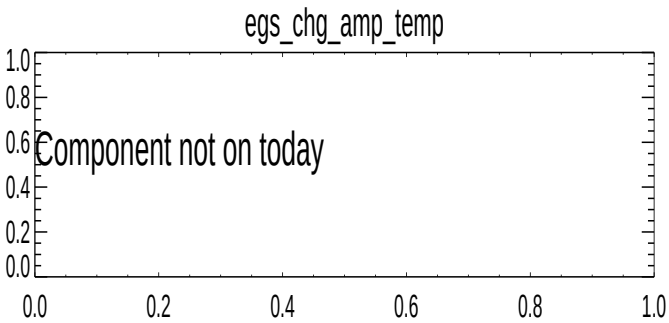

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2019024

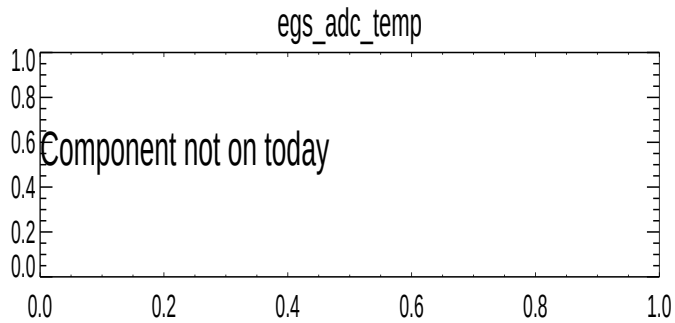

egs_15neg
Component not on today

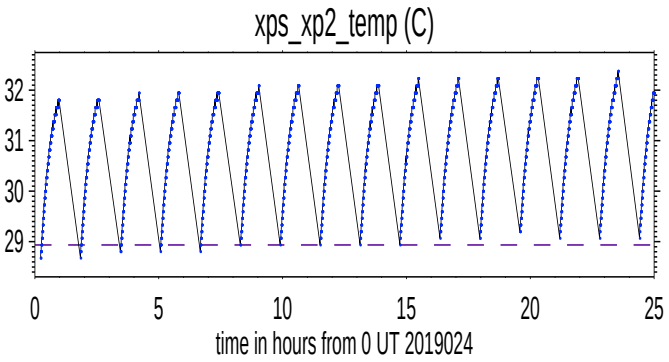

egs_lamp_temp
Component not on today

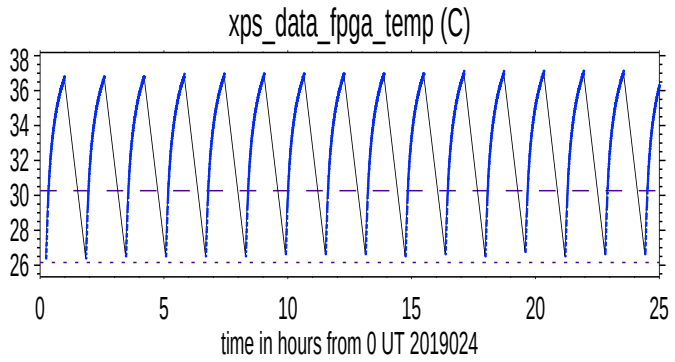

egs_slit_temp
Component not on today

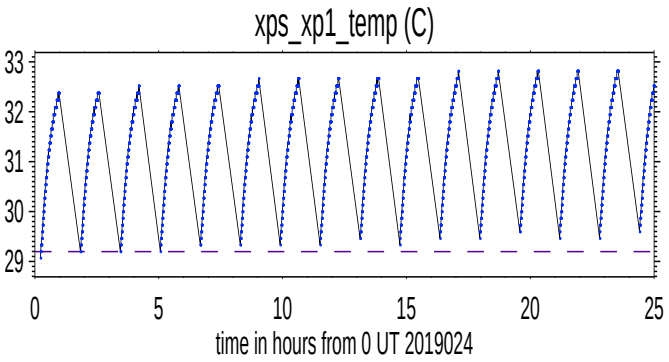

egs_15_conv_temp
Component not on today

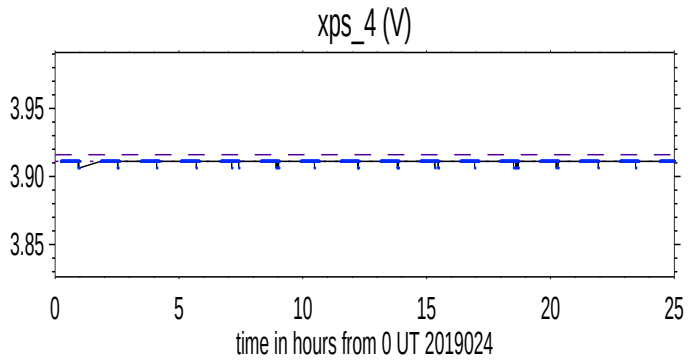

egs_chg_amp_temp
Component not on today

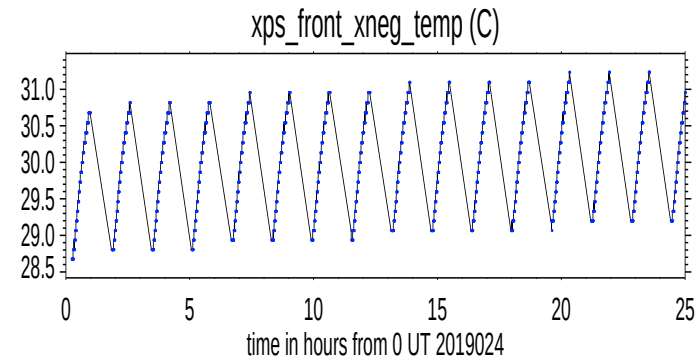

egs_adc_temp
Component not on today

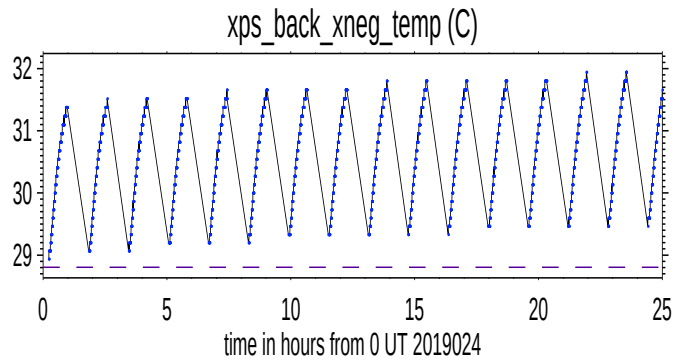

xps_xp2_temp (C)
time in hours from 0 UT 2019024

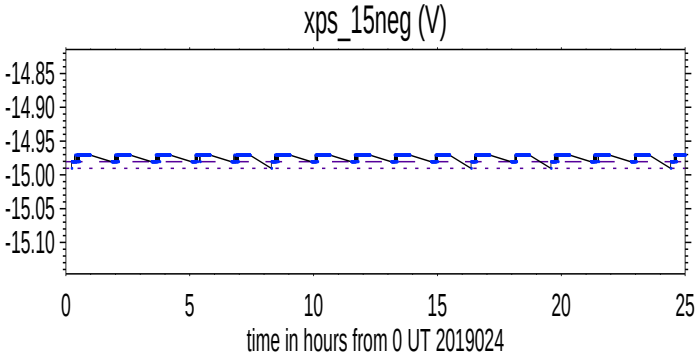

xps_data_fpga_temp (C)
time in hours from 0 UT 2019024

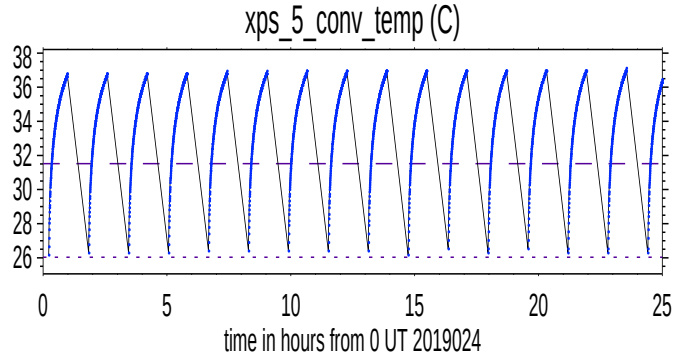

xps_xp1_temp (C)
time in hours from 0 UT 2019024

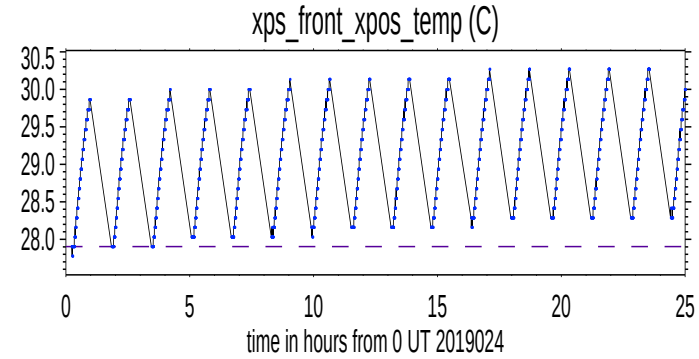

xps_4 (V)
time in hours from 0 UT 2019024

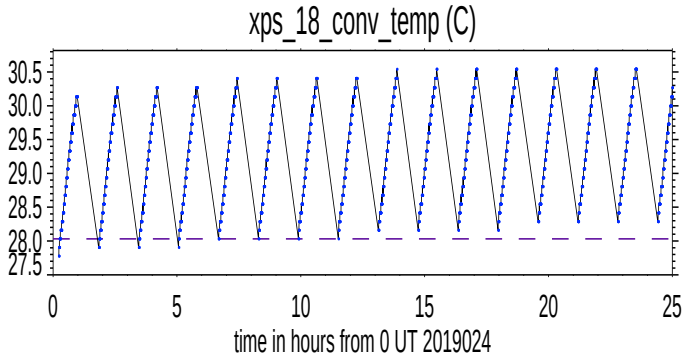

xps_front_xneg_temp (C)
31.0
30.5
30.0
29.5
29.0
28.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

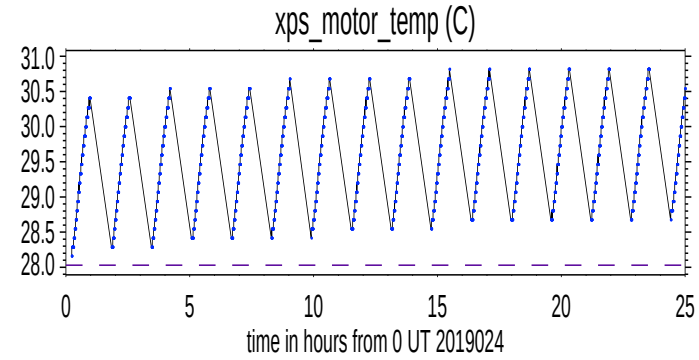

xps_back_xneg_temp (C)
32
31
30
29
0
5
10
15
20
25
time in hours from 0 UT 2019024

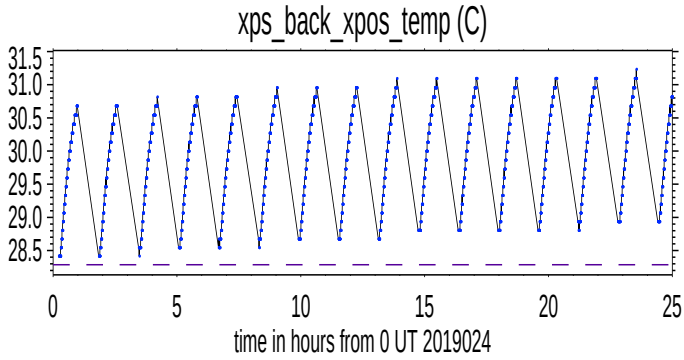

xps_15neg (V)
-14.85
-14.90
-14.95
-15.00
-15.05
-15.10
0
5
10
15
20
25
time in hours from 0 UT 2019024

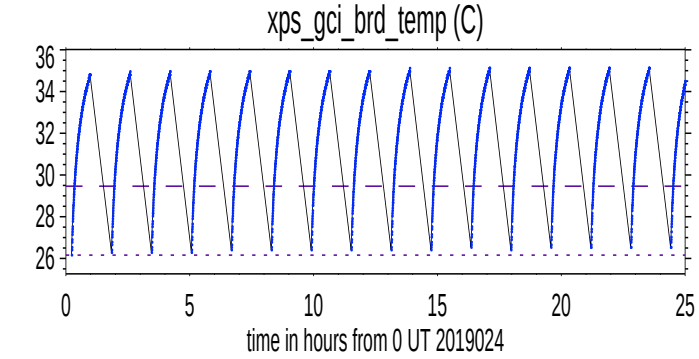

xps_5_conv_temp (C)
38
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

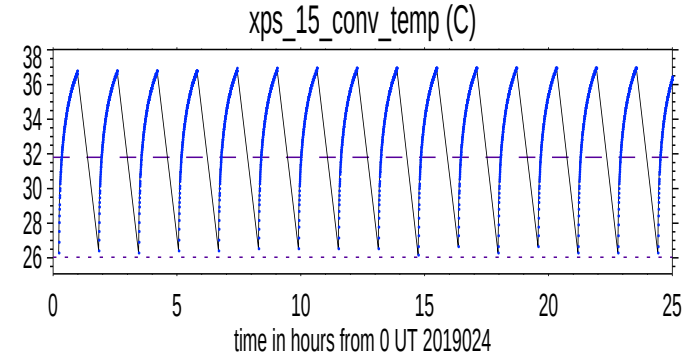

xps_front_xpos_temp (C)
30.5
30.0
29.5
29.0
28.5
28.0
0
5
10
15
20
25
time in hours from 0 UT 2019024

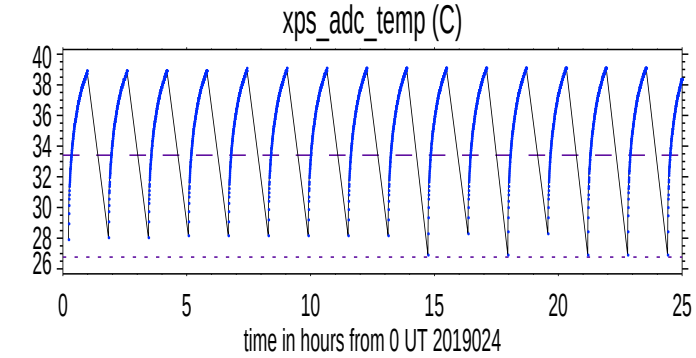

xps_18_conv_temp (C)
30.5
30.0
29.5
29.0
28.5
28.0
27.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

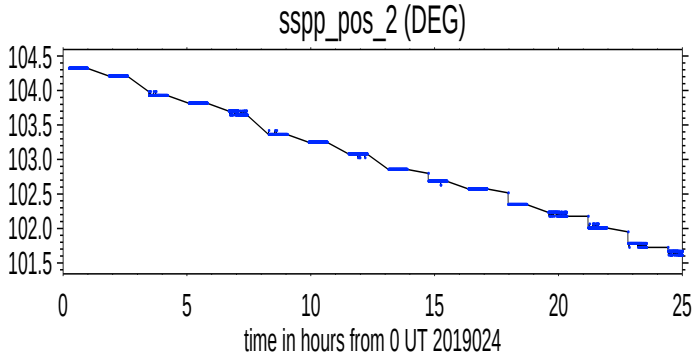

xps_motor_temp (C)
31.0
30.5
30.0
29.5
29.0
28.5
28.0
0
5
10
15
20
25
time in hours from 0 UT 2019024

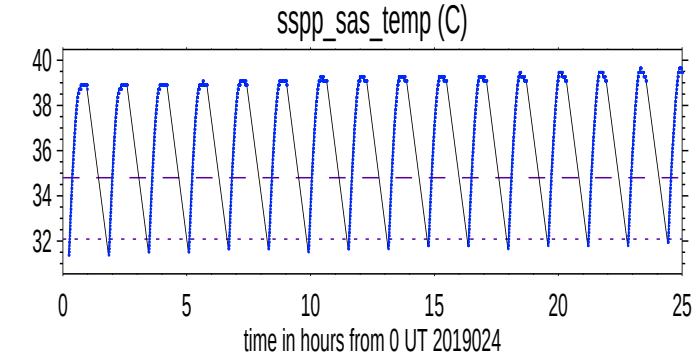

xps_back_xpos_temp (C)
31.5
31.0
30.5
30.0
29.5
29.0
28.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

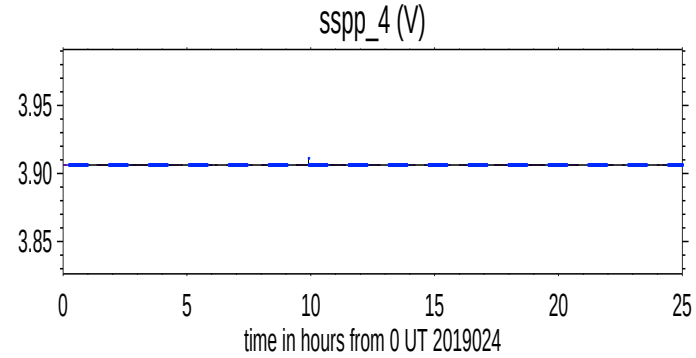

xps_gci_brd_temp (C)
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

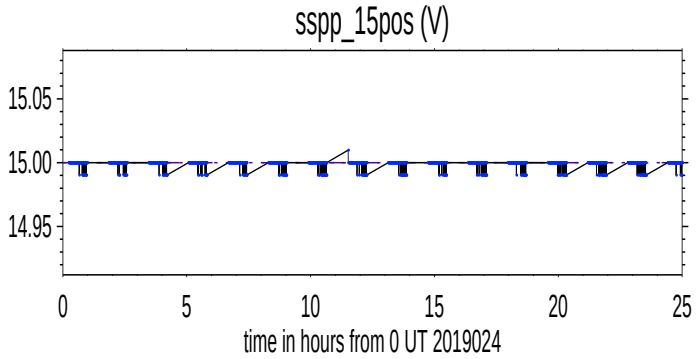

xps_15_conv_temp (C)
38
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

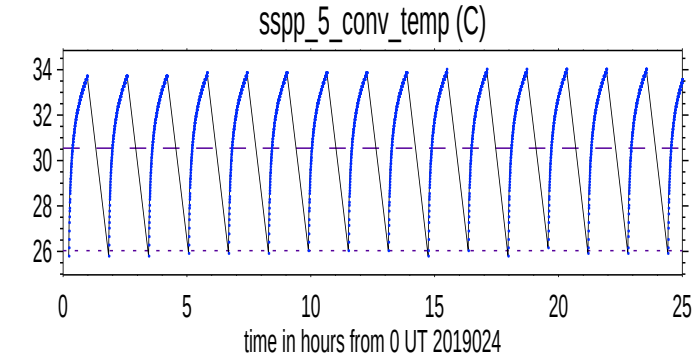

xps_adc_temp (C)
40
38
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

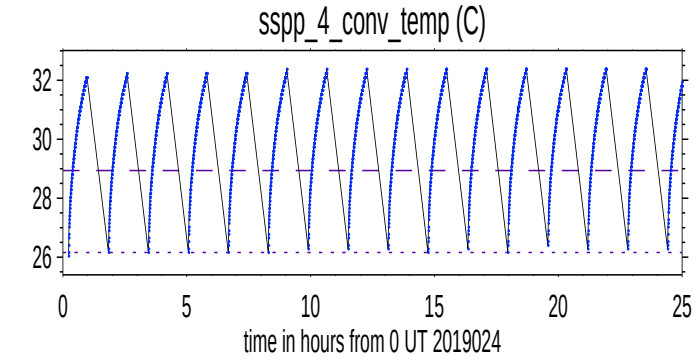

sspp_pos_2 (DEG)
104.5
104.0
103.5
103.0
102.5
102.0
101.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

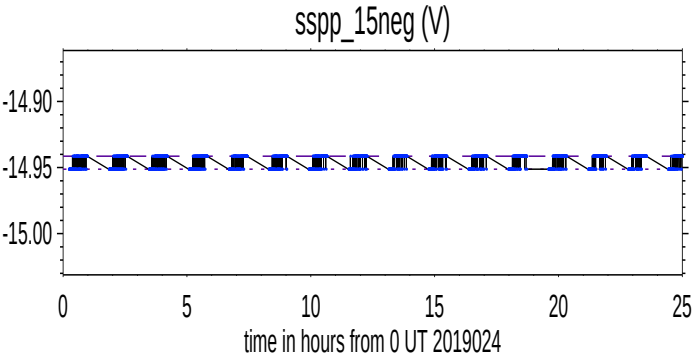

sspp_sas_temp (C)
40
38
36
34
32
0
5
10
15
20
25
time in hours from 0 UT 2019024

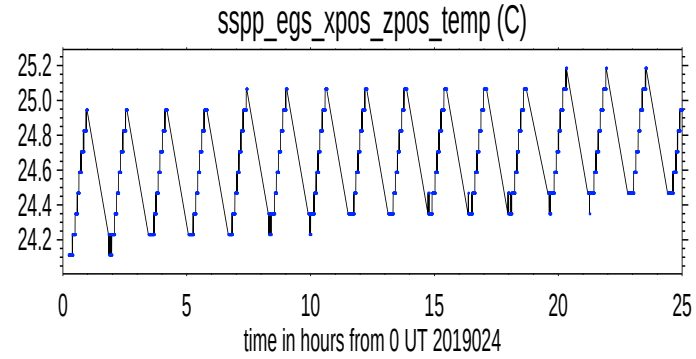

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019024

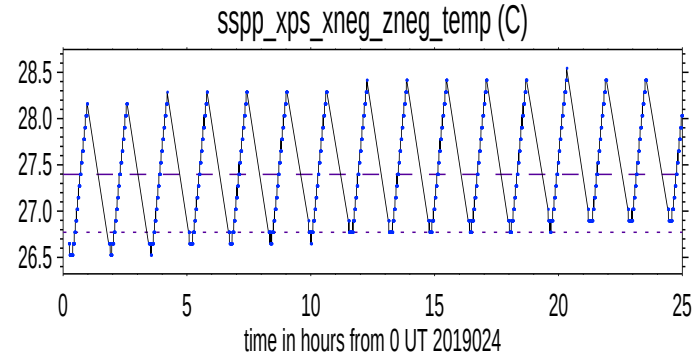

sspp_15pos (V)
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2019024

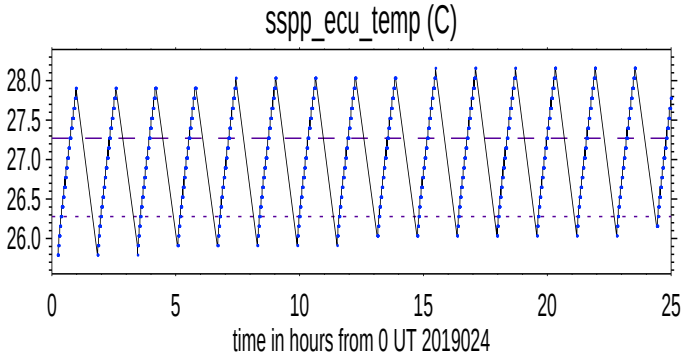

sspp_5_conv_temp (C)
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

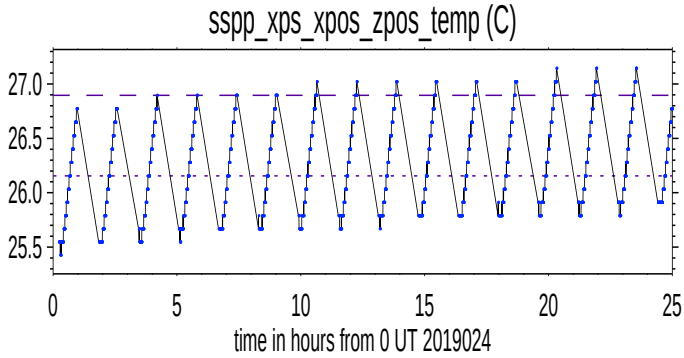

sspp_4_conv_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

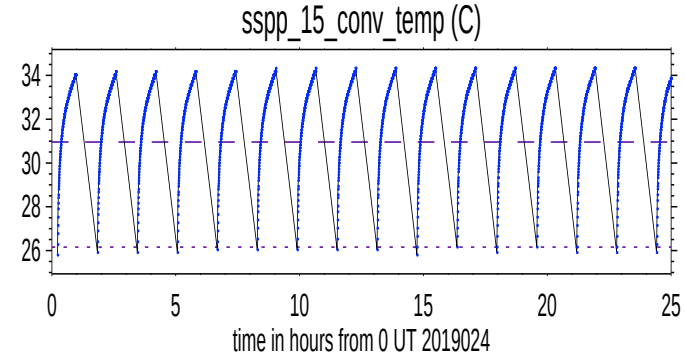

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019024

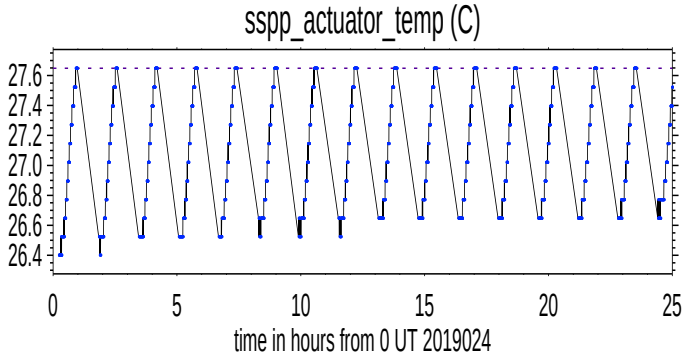

sspp_egs_xpos_zpos_temp (C)
25.2
25.0
24.8
24.6
24.4
24.2
0
5
10
15
20
25
time in hours from 0 UT 2019024

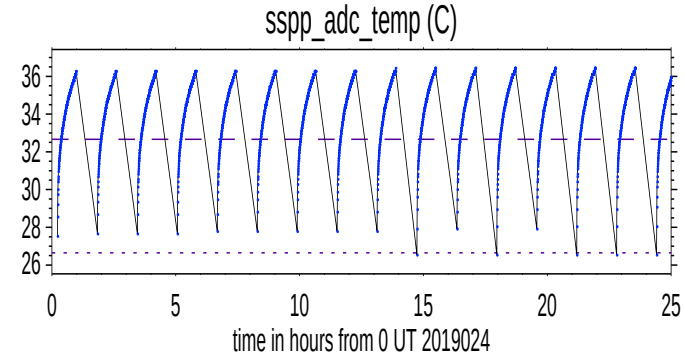

sspp_xps_xneg_zneg_temp (C)
28.5
28.0
27.5
27.0
26.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

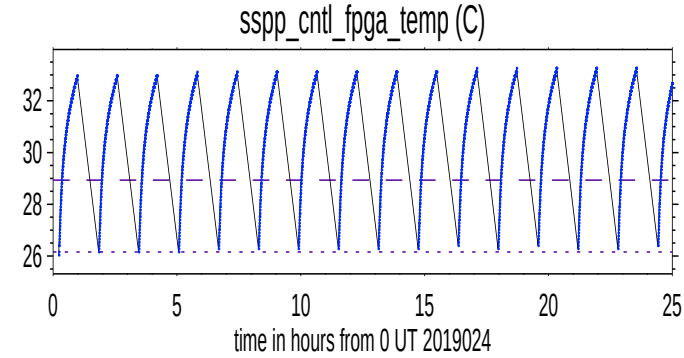

sspp_ecu_temp (C)
28.0
27.5
27.0
26.5
26.0
0
5
10
15
20
25
time in hours from 0 UT 2019024

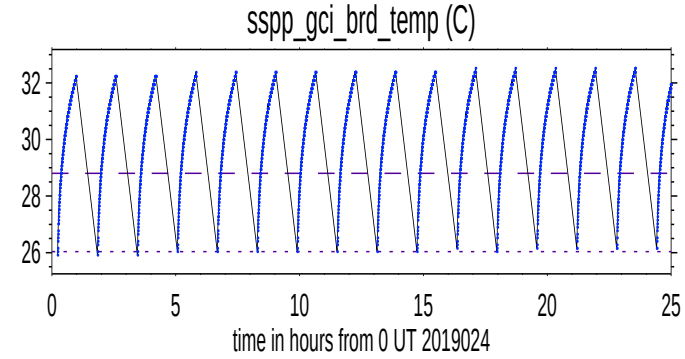

sspp_xps_xpos_zpos_temp (C)
27.0
26.5
26.0
25.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

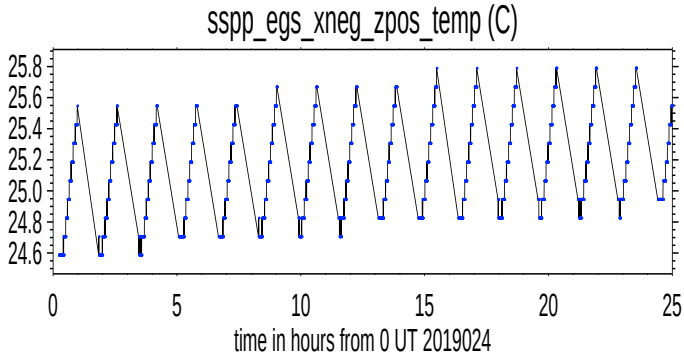

sspp_15_conv_temp (C)
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

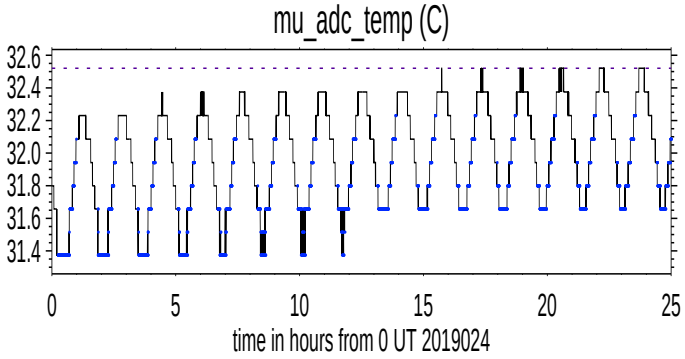

sspp_actuator_temp (C)
27.6
27.4
27.2
27.0
26.8
26.6
26.4
0
5
10
15
20
25
time in hours from 0 UT 2019024

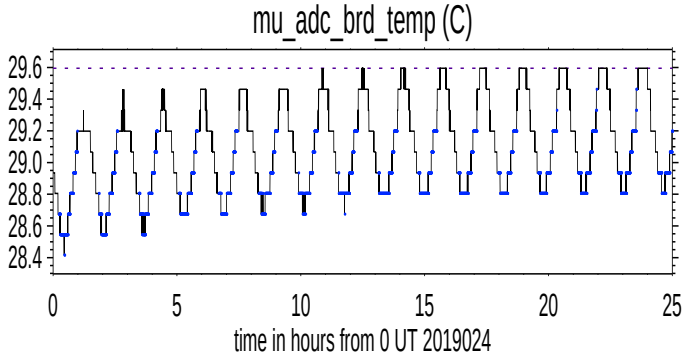

sspp_adc_temp (C)
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

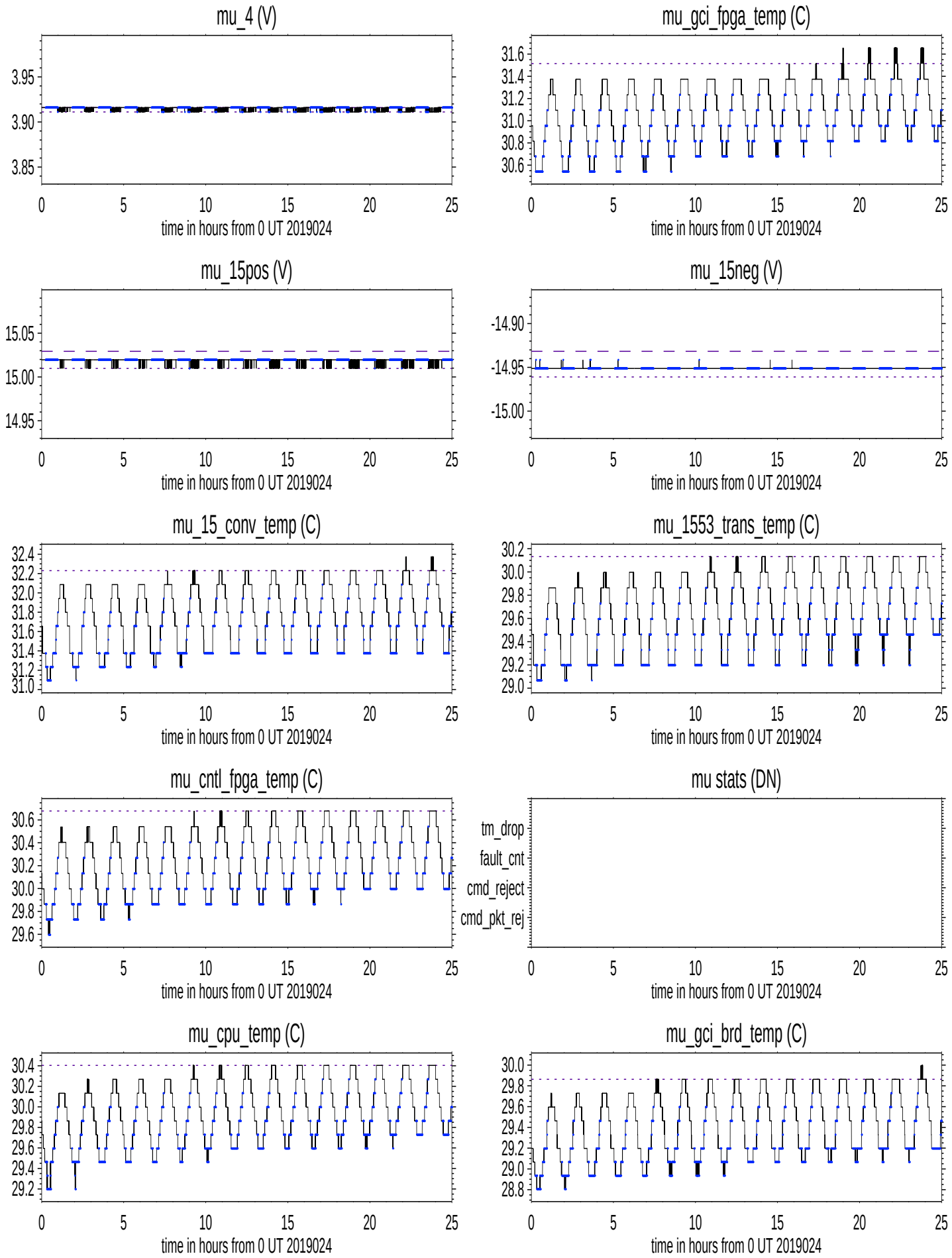

sspp_cntl_fpga_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

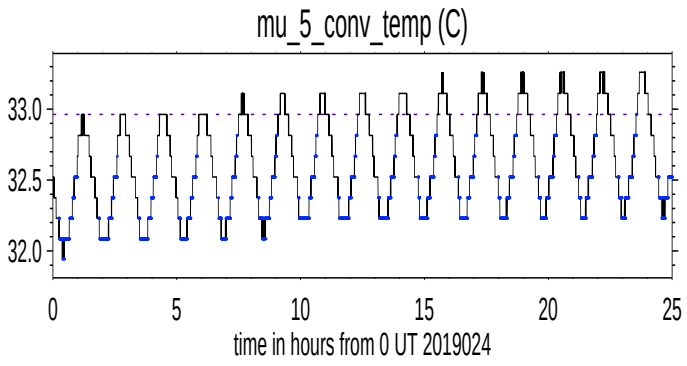

sspp_gci_brd_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019024

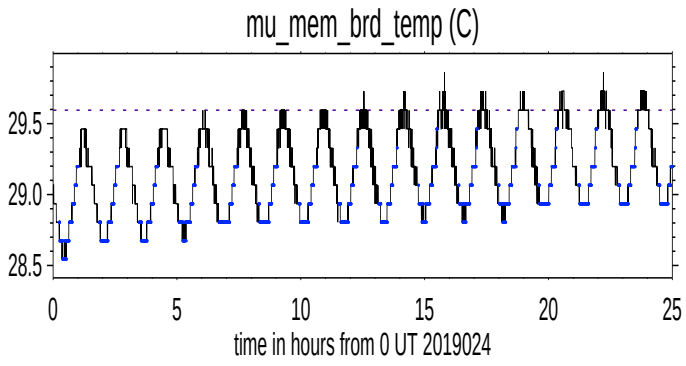

sspp_egs_xneg_zpos_temp (C)
25.8
25.6
25.4
25.2
25.0
24.8
24.6
0
5
10
15
20
25
time in hours from 0 UT 2019024

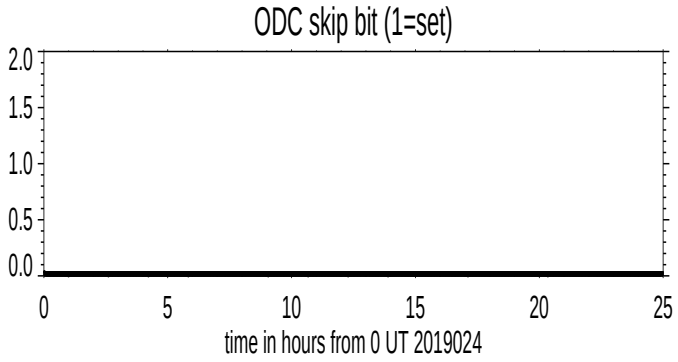

mu_adc_temp (C)
32.6
32.4
32.2
32.0
31.8
31.6
31.4
0
5
10
15
20
25
time in hours from 0 UT 2019024

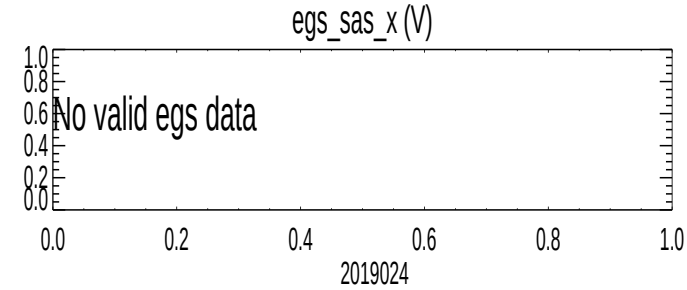

mu_adc_brd_temp (C)
29.6
29.4
29.2
29.0
28.8
28.6
28.4
0
5
10
15
20
25
time in hours from 0 UT 2019024

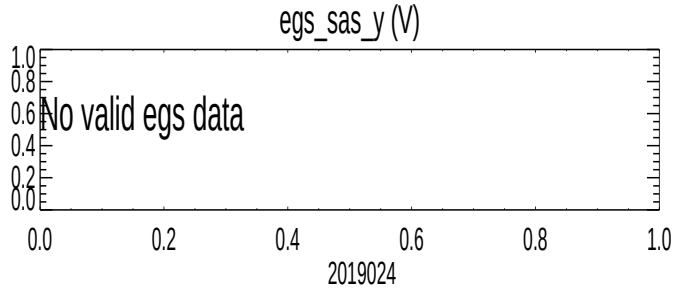

mu_4 (V)
3.95
3.90
3.85
mu_gci_fpga_temp (C)
31.6
31.4
31.2
31.0
30.8
30.6
mu_15pos (V)
15.05
15.00
14.95
mu_15neg (V)
-14.90
-14.95
-15.00
mu_15_conv_temp (C)
32.4
32.2
32.0
31.8
31.6
31.4
31.2
31.0
mu_1553_trans_temp (C)
30.2
30.0
29.8
29.6
29.4
29.2
29.0
mu_cntl_fpga_temp (C)
30.6
30.4
30.2
30.0
29.8
29.6
mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
mu_cpu_temp (C)
30.4
30.2
30.0
29.8
29.6
29.4
29.2
mu_gci_brd_temp (C)
30.0
29.8
29.6
29.4
29.2
29.0
28.8
0
5
10
15
20
25
time in hours from 0 UT 2019024

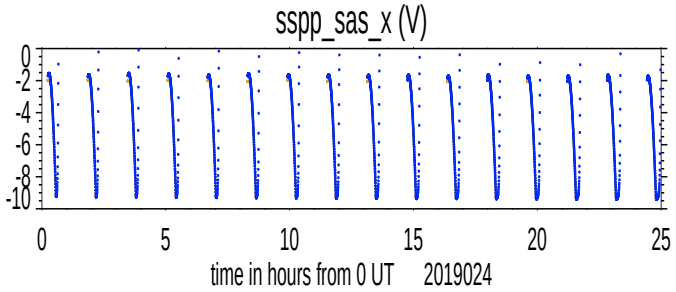

mu_5_conv_temp (C)
33.0
32.5
32.0
0
5
10
15
20
25
time in hours from 0 UT 2019024

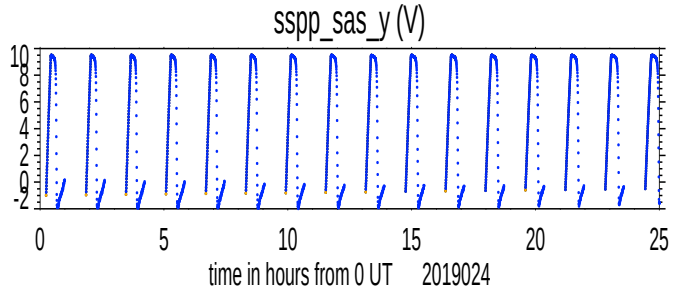

mu_mem_brd_temp (C)
29.5
29.0
28.5
0
5
10
15
20
25
time in hours from 0 UT 2019024

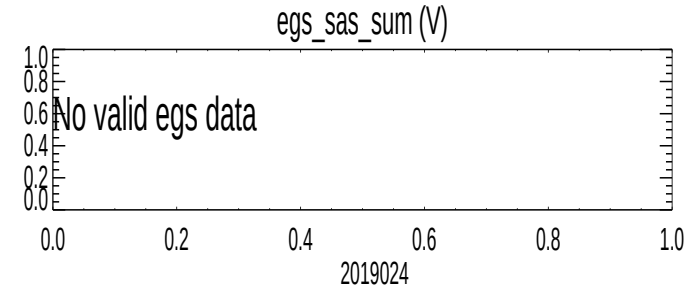

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2019024

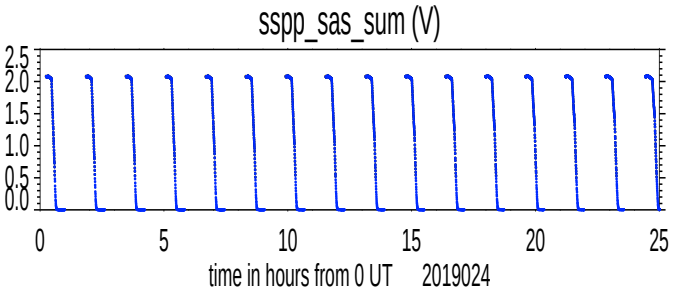

egs_sas_x (V)
No valid egs data
2019024

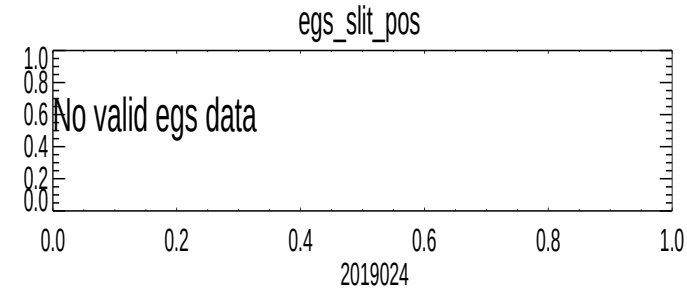

egs_sas_y (V)
No valid egs data
2019024

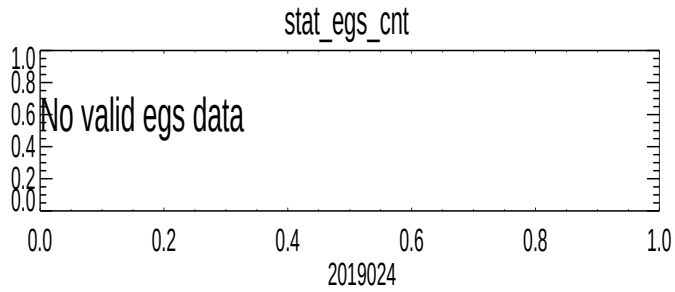

sspp_sas_x (V)
time in hours from 0 UT 2019024

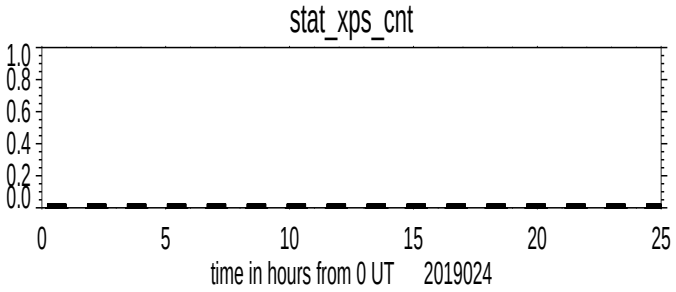

sspp_sas_y (V)
time in hours from 0 UT 2019024

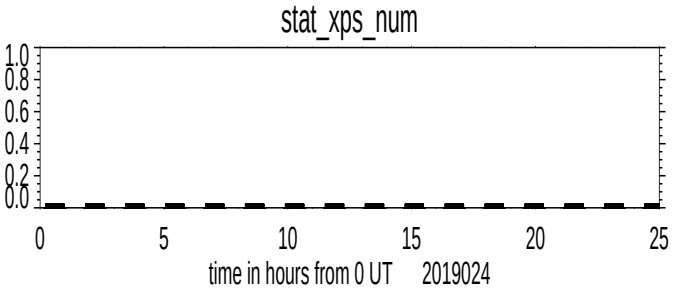

egs_sas_sum (V)
No valid egs data
2019024

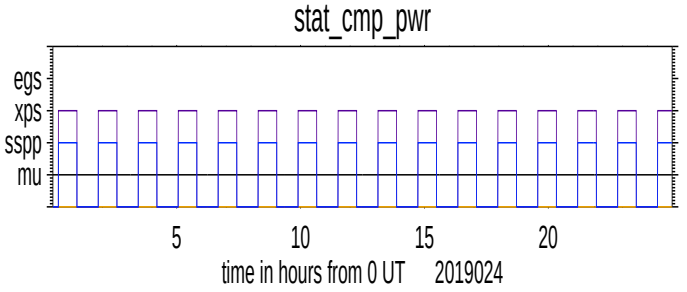

sspp_sas_sum (V)
time in hours from 0 UT 2019024


egs_slit_pos
No valid egs data
2019024

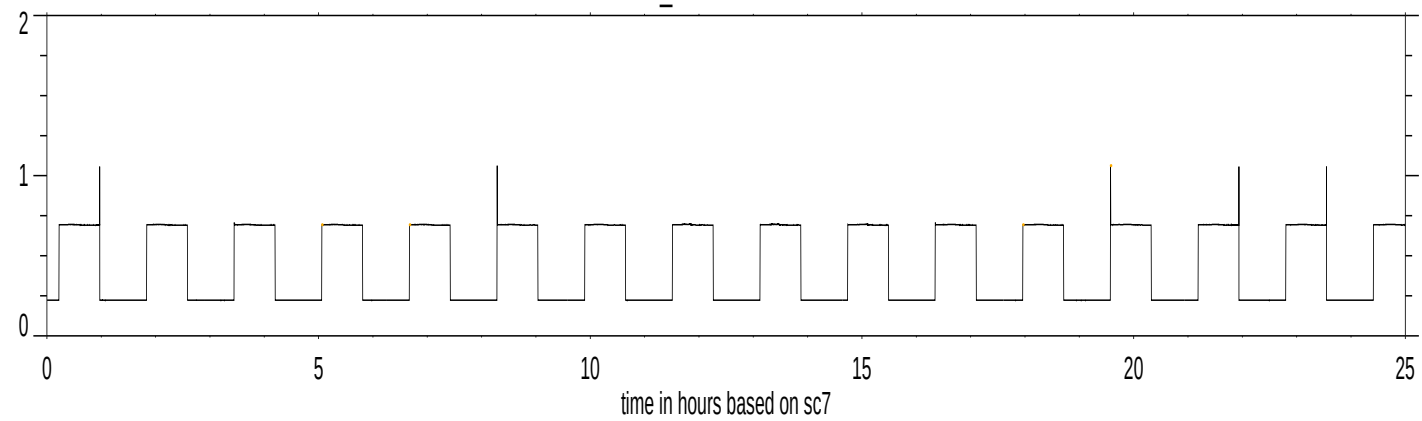

stat_egs_cnt
No valid egs data
2019024


stat_xps_cnt
time in hours from 0 UT 2019024

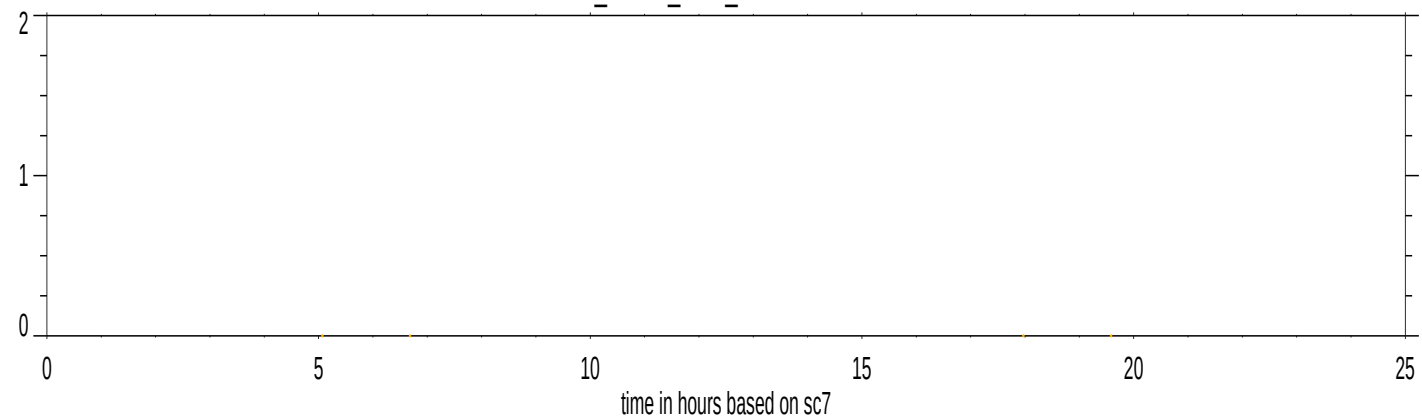

stat_xps_num
time in hours from 0 UT 2019024


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2019024

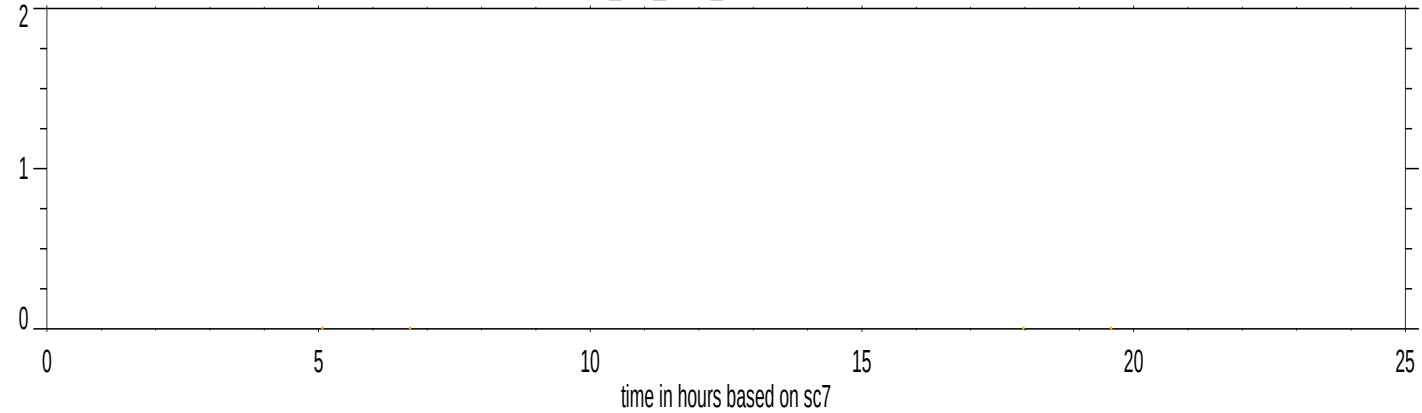
SEE_CUR 2019024



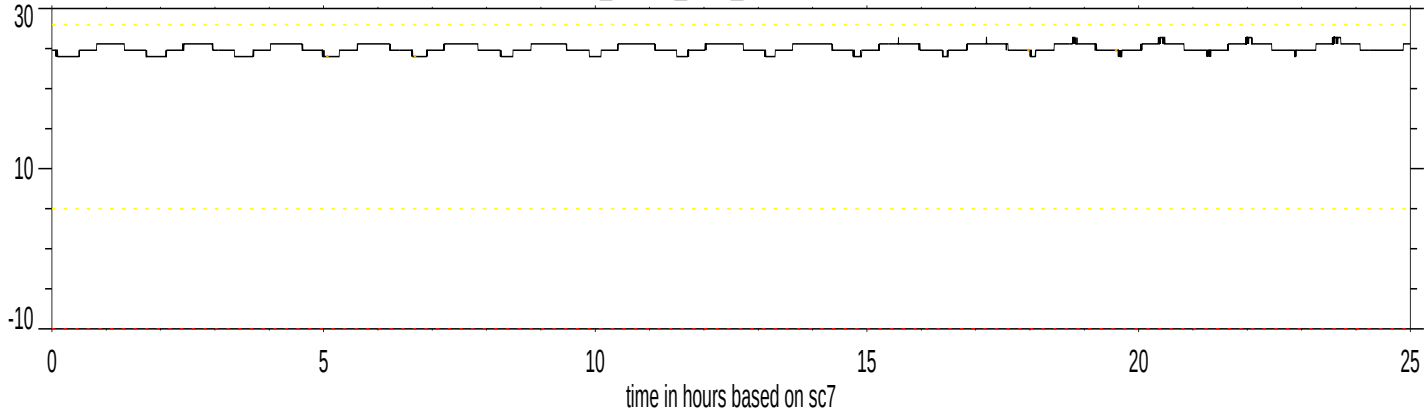
SEE_SURV_HTR_CUR 2019024



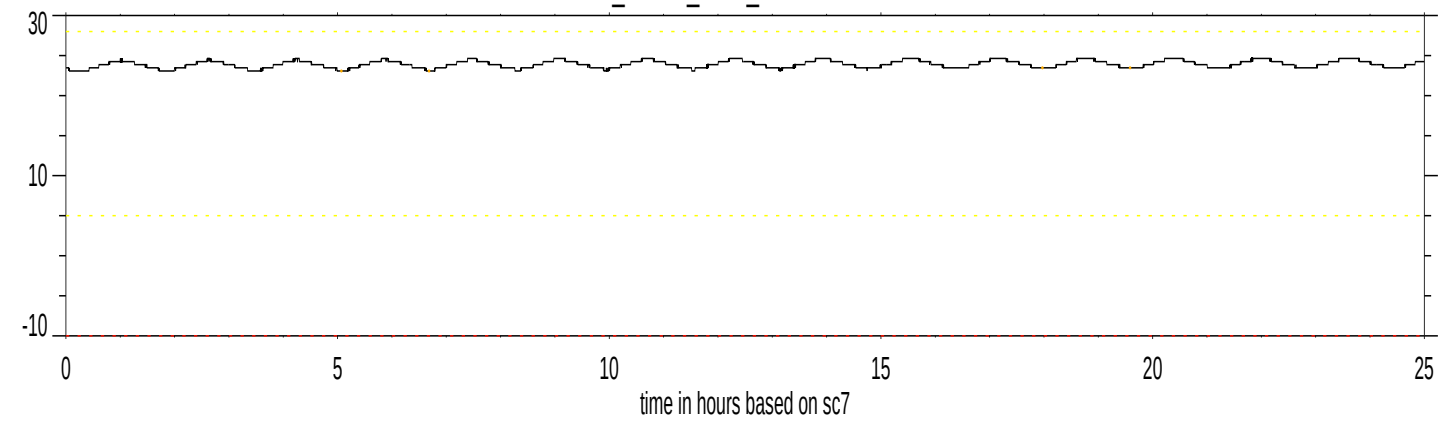
SEE_OP_HTR_CUR 2019024



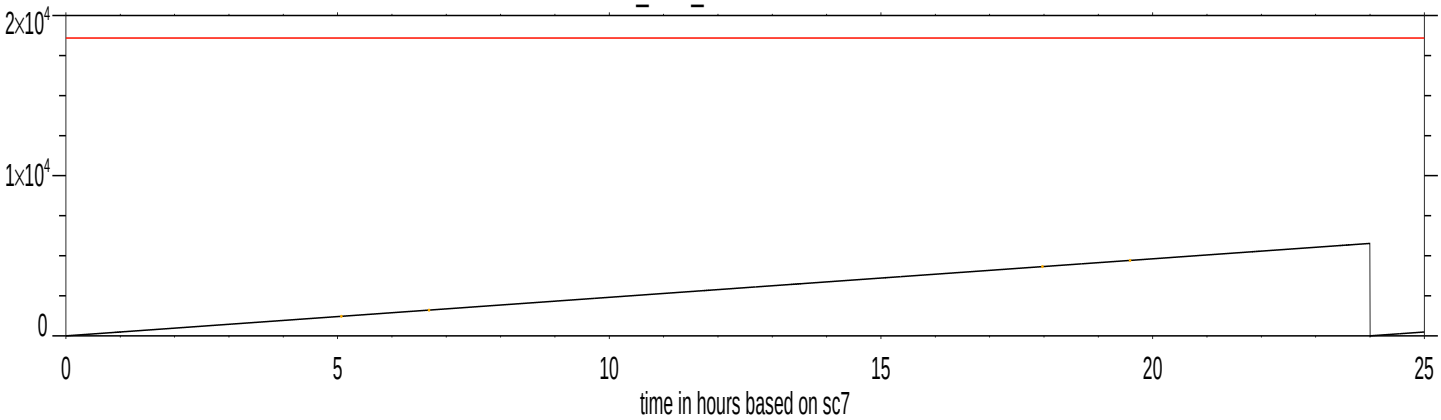
SSPP_BHND_XPS_TEMP 2019024



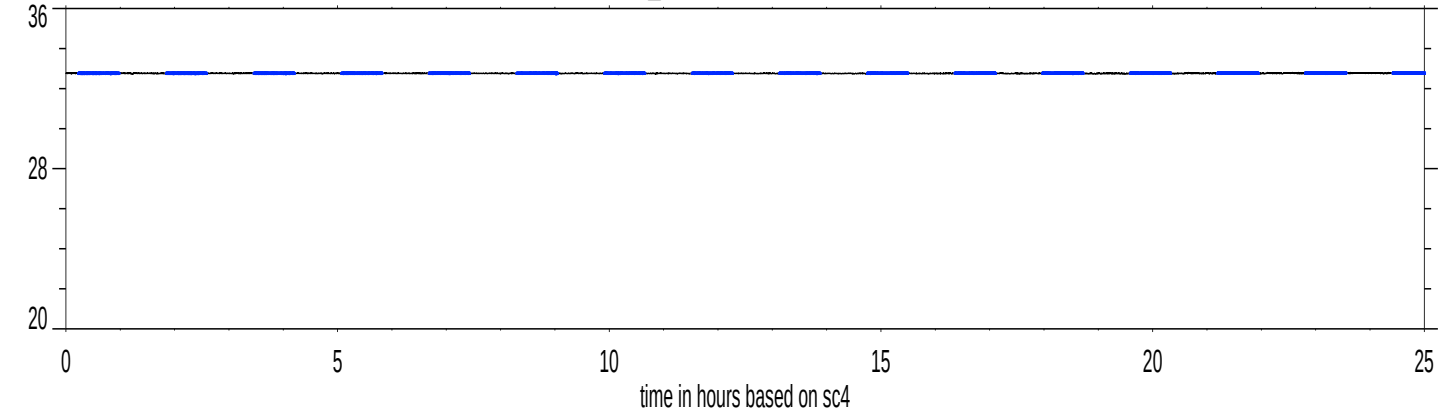
SSPP_BHND_MTR_TEMP 2019024



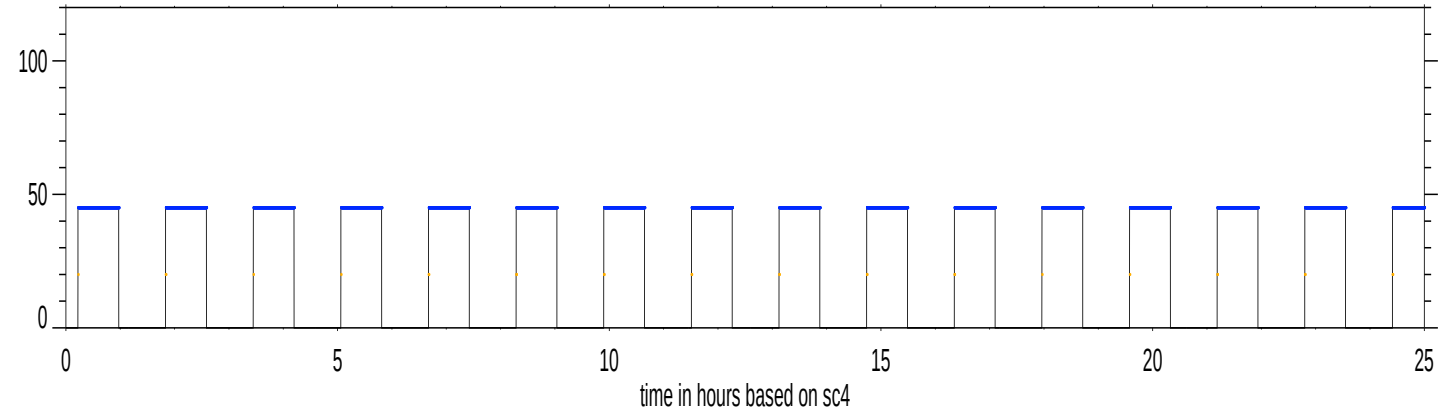
SEE_PKT_COUNT 2019024

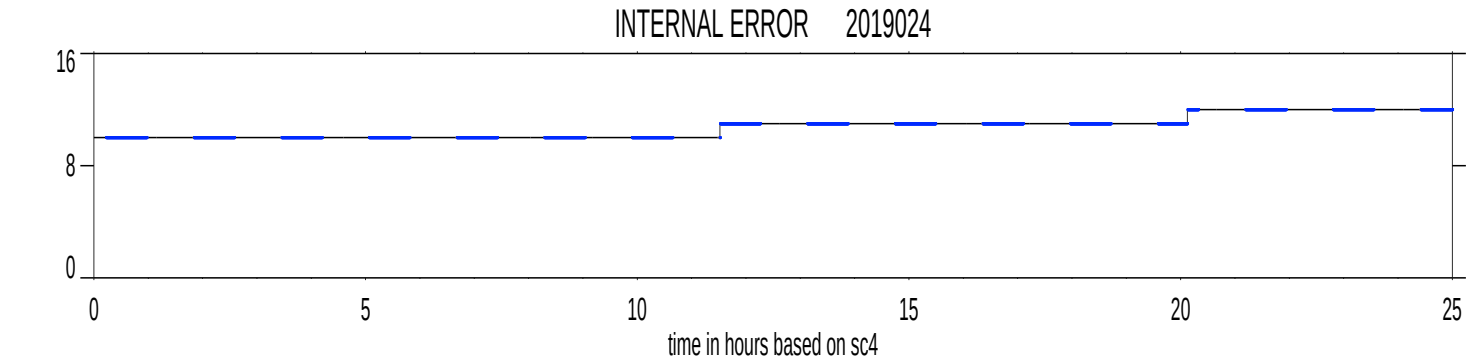


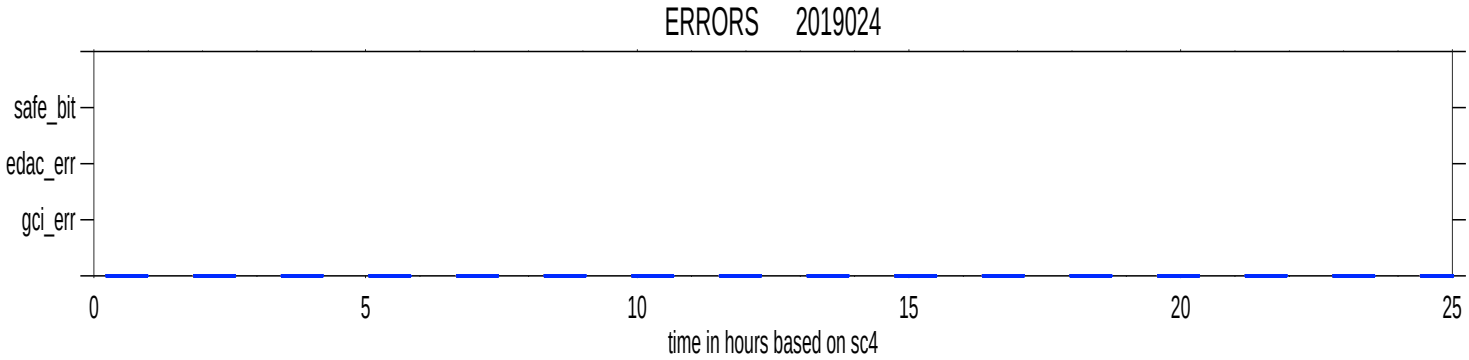
BUS_VOLTAGE 2019024

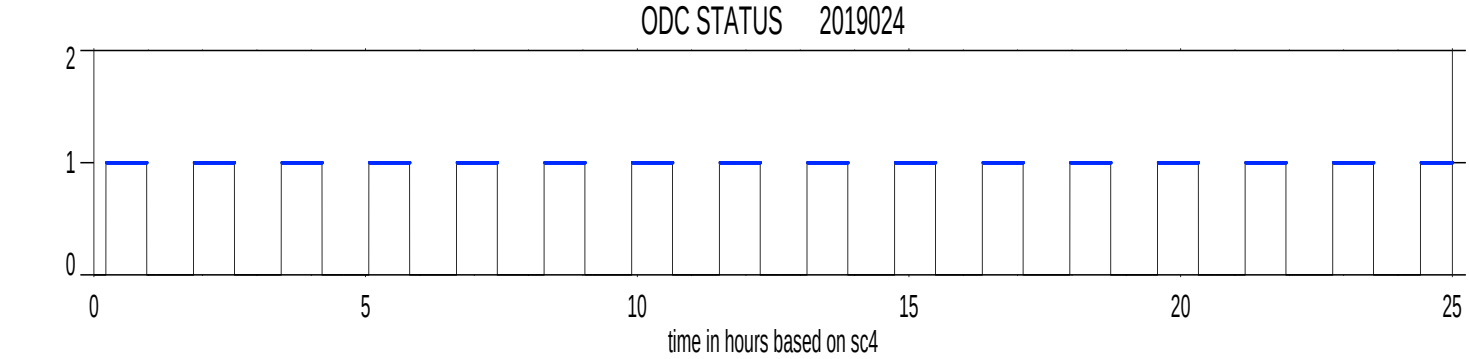


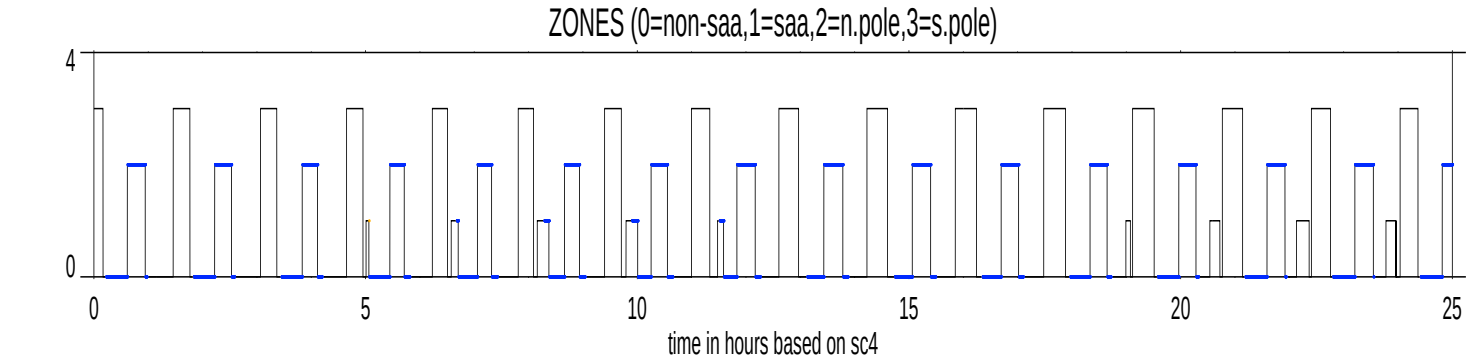
SEE_MU Operational Mode 2019024

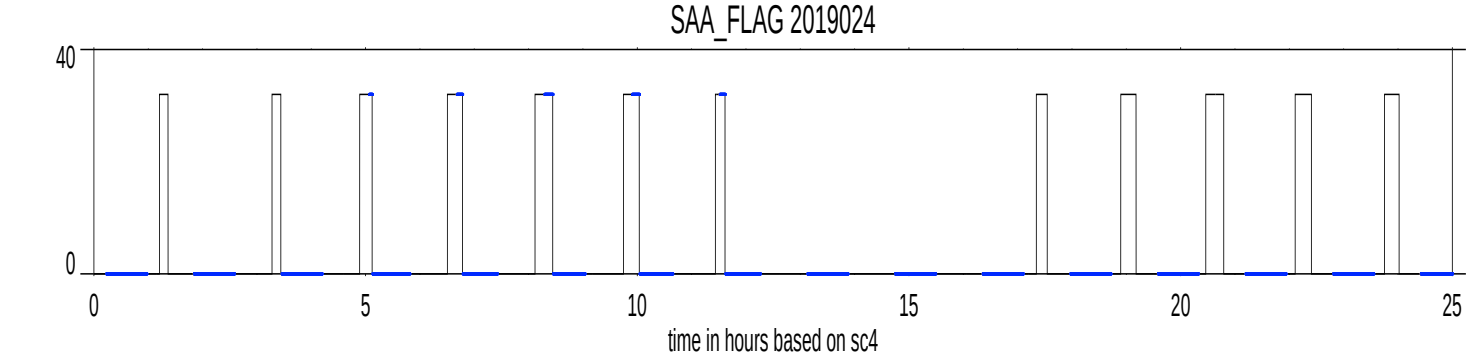


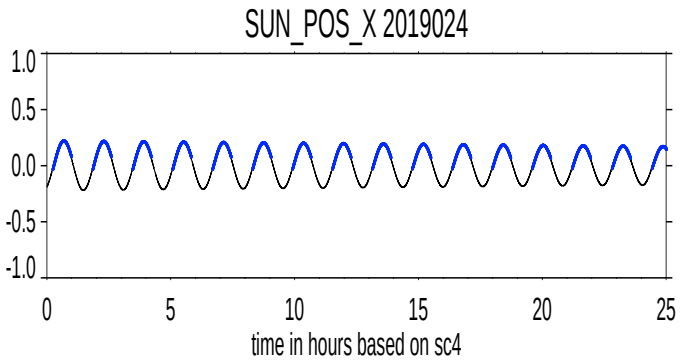

INTERNAL ERROR 2019024
16
8
0
0
5
10
15
20
25
time in hours based on sc4

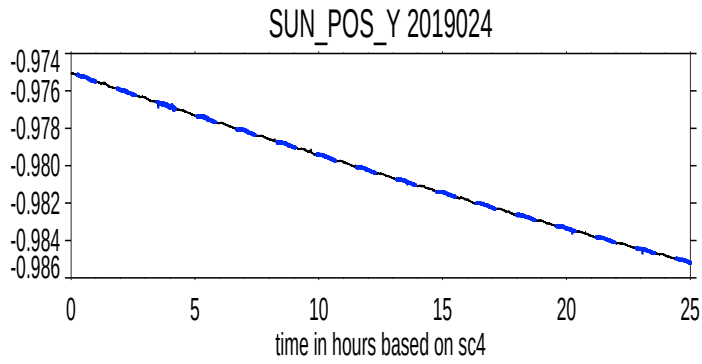

ERRORS 2019024
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

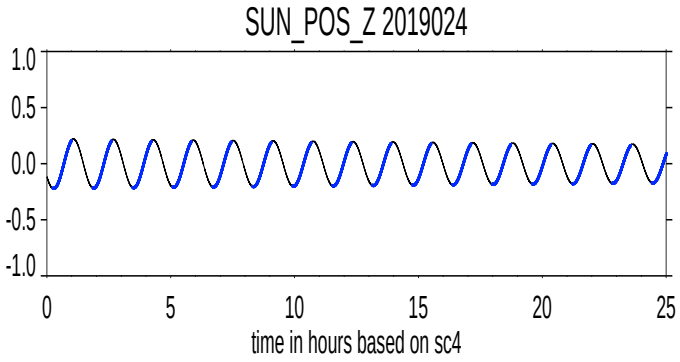

ODC STATUS 2019024
2
1
0
0
5
10
15
20
25
time in hours based on sc4

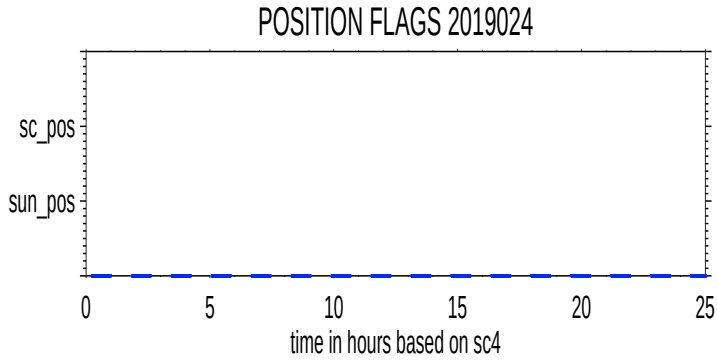

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

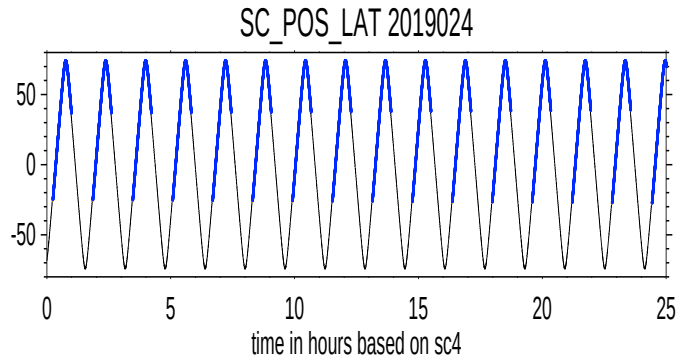

SAA_FLAG 2019024
40
0
0
5
10
15
20
25
time in hours based on sc4

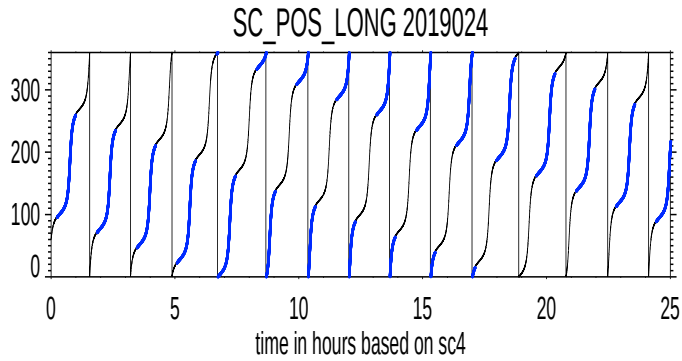

SUN_POS_X 2019024
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

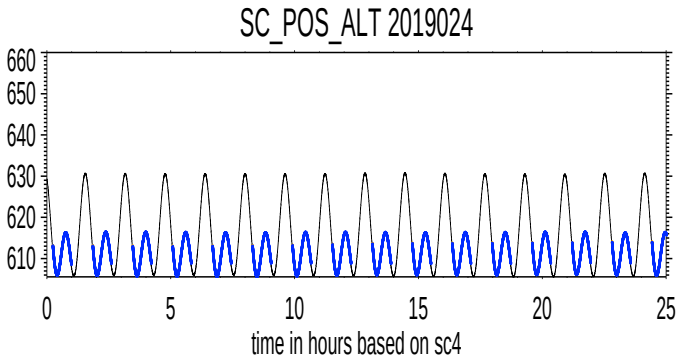

SUN_POS_Y 2019024
-0.974
-0.976
-0.978
-0.980
-0.982
-0.984
-0.986
0
5
10
15
20
25
time in hours based on sc4

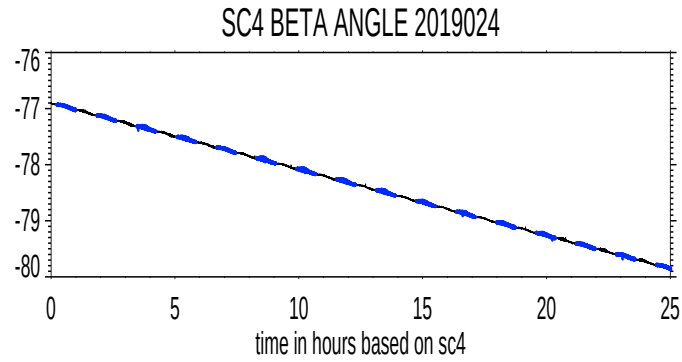

SUN_POS_Z 2019024
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2019024
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2019024
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2019024
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2019024
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2019024
-76
-77
-78
-79
-80
0
5
10
15
20
25
time in hours based on sc4