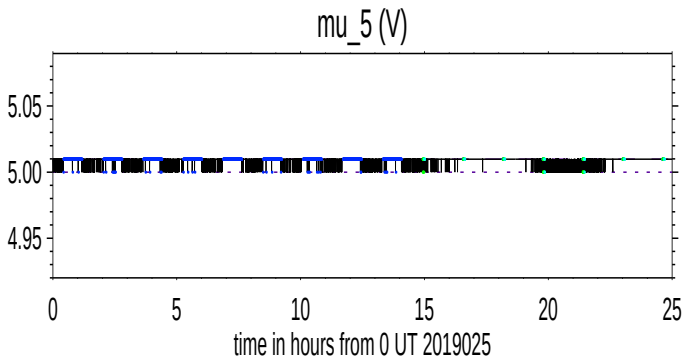
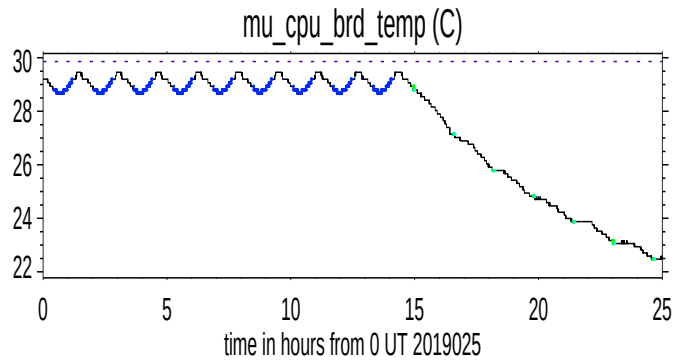
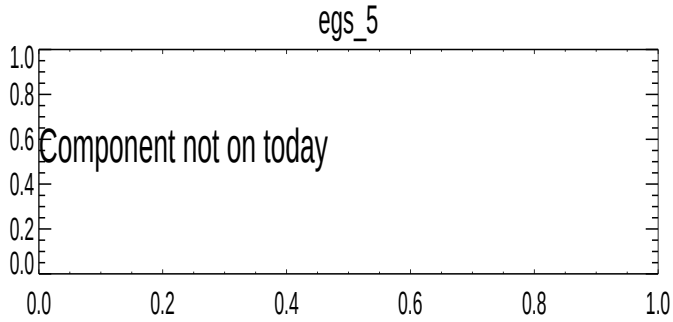
```
Information for      2019025
11:58:05.876: hk: 6 cmd pkt accepted   cmd = ODCs Loaded
11:58:20.876: hk: 6 cmd pkt accepted   cmd = ODCs Loaded
11:58:35.876: hk: 9 cmd pkt accepted   cmd = ODCs Loaded
11:58:50.876: hk: 1 cmd pkt accepted   cmd = ODCs Loaded
```

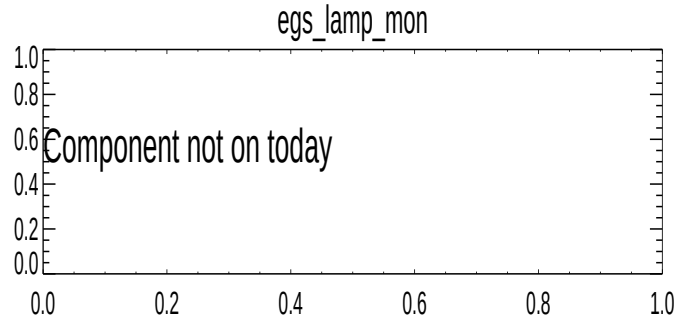
/export/timed/data/science_dp/tlm_limit/outoflimit_2019025_012.txt
Sun Feb 24 06:14:10 2019 1

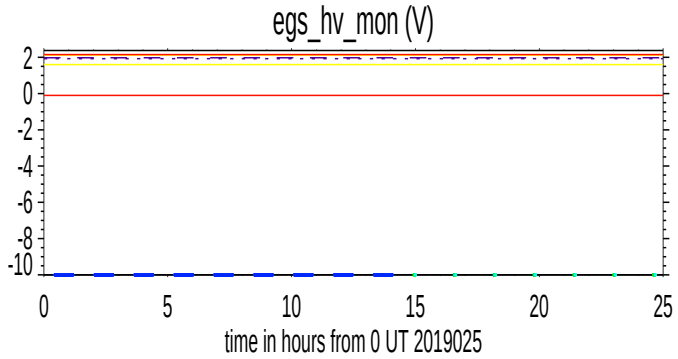
```
RH  OutOfLimit 1232411105 1232413790 reached timeout limit for ODC 205
RH  OutOfLimit 1232416910 1232419595 reached timeout limit for ODC 206
RH  OutOfLimit 1232422715 1232425400 reached timeout limit for ODC 207
RH  OutOfLimit 1232428518 1232431203 reached timeout limit for ODC 208
RH  OutOfLimit 1232434321 1232437006 reached timeout limit for ODC 209
RH  OutOfLimit 1232440123 1232442808 reached timeout limit for ODC 210
RH  OutOfLimit 1232445925 1232448610 reached timeout limit for ODC 211
RH  OutOfLimit 1232451728 1232454413 reached timeout limit for ODC 212
RH  OutOfLimit 1232457530 1232460215 reached timeout limit for ODC 213
```

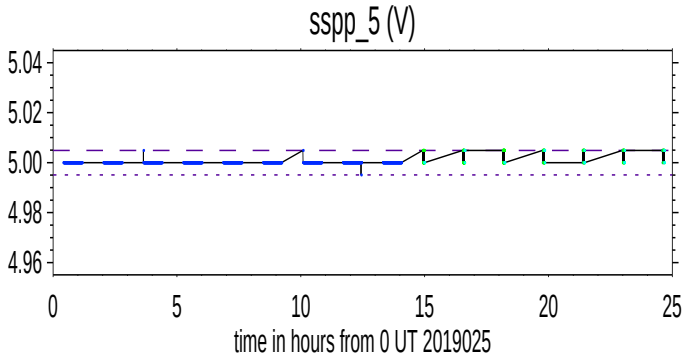

mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2019025

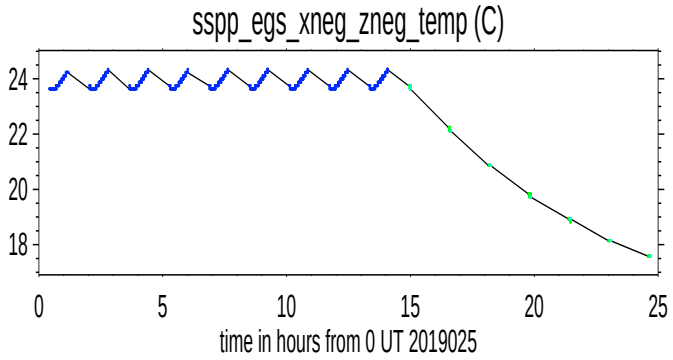

mu_cpu_brd_temp (C)
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

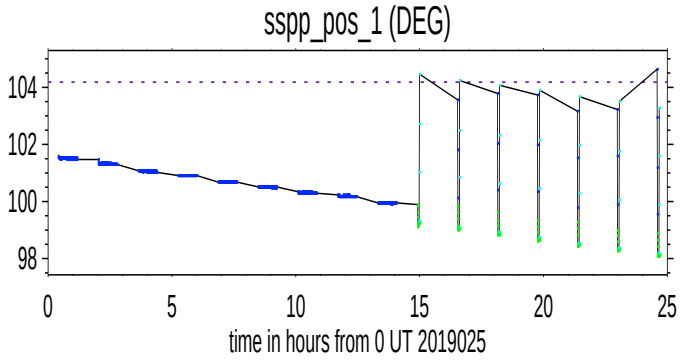

egs_5
1.0
0.8
0.6
0.4
0.2
0.0
Component not on today
0.0
0.2
0.4
0.6
0.8
1.0

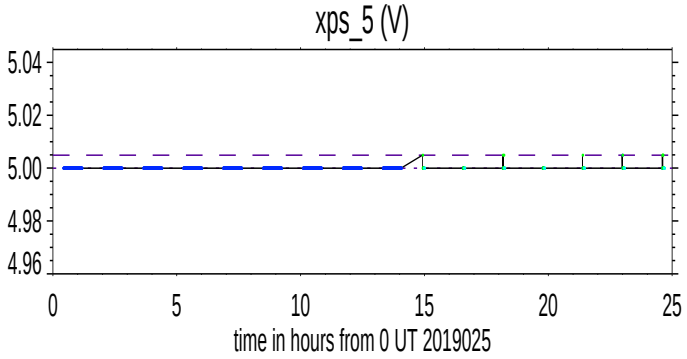

egs_lamp_mon
1.0
0.8
0.6
0.4
0.2
0.0
Component not on today
0.0
0.2
0.4
0.6
0.8
1.0

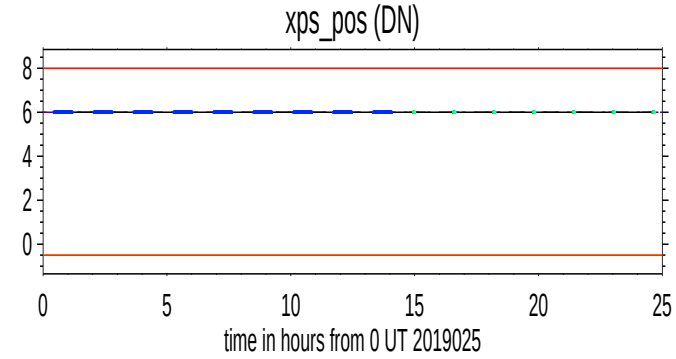

egs_hv_mon (V)
2
0
-2
-4
-6
-8
-10
0
5
10
15
20
25
time in hours from 0 UT 2019025

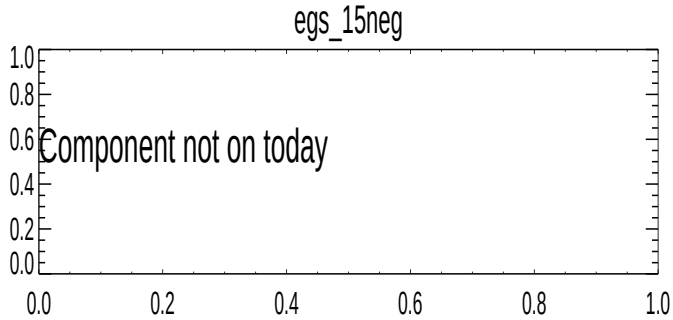

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019025

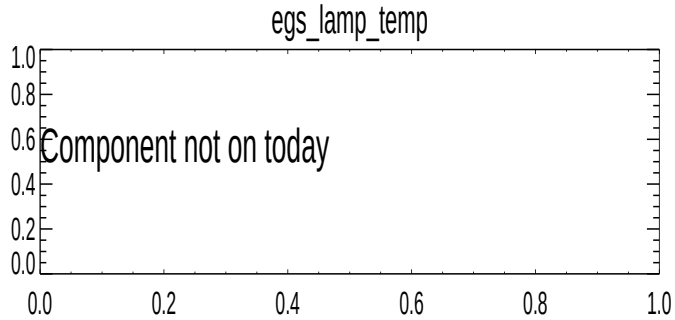

sspp_egs_xneg_zneg_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019025

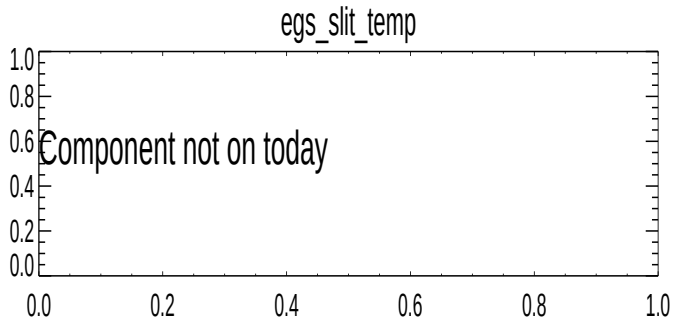

sspp_pos_1 (DEG)
104
102
100
98
0
5
10
15
20
25
time in hours from 0 UT 2019025

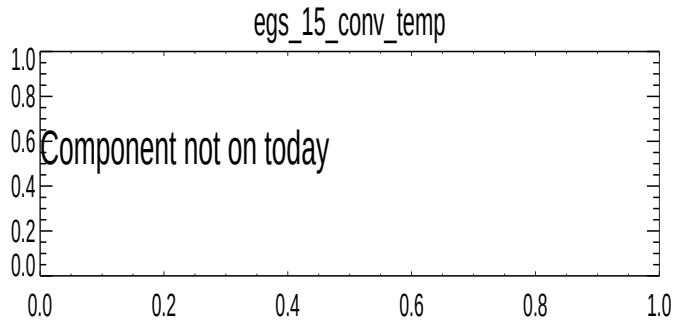

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019025

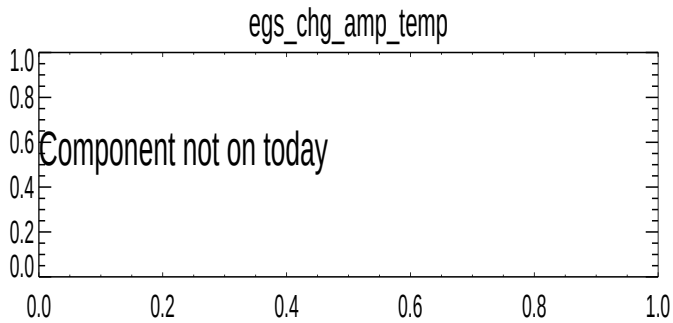

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2019025

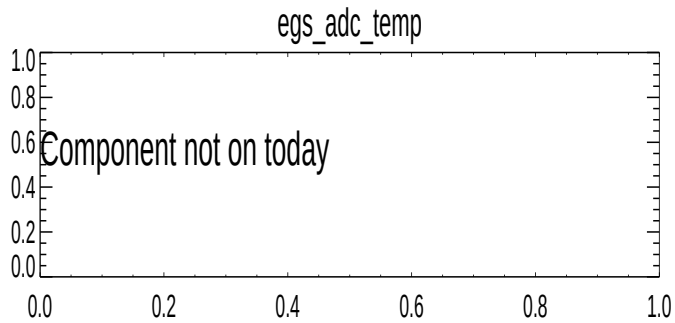

egs_15neg
Component not on today

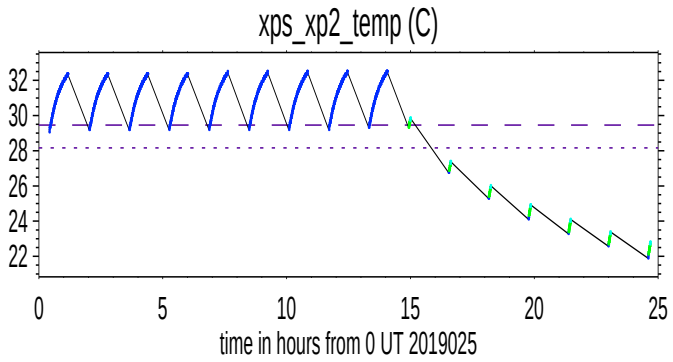

egs_lamp_temp
Component not on today

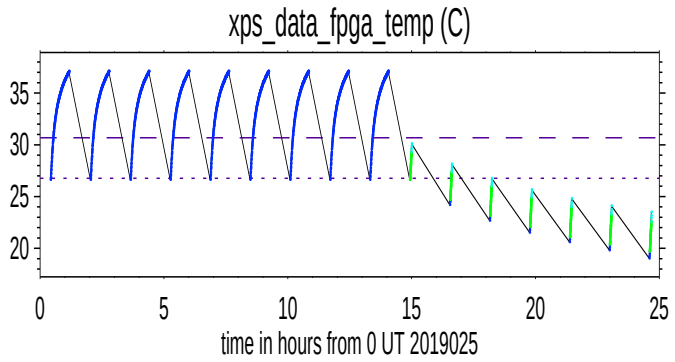

egs_slit_temp
Component not on today

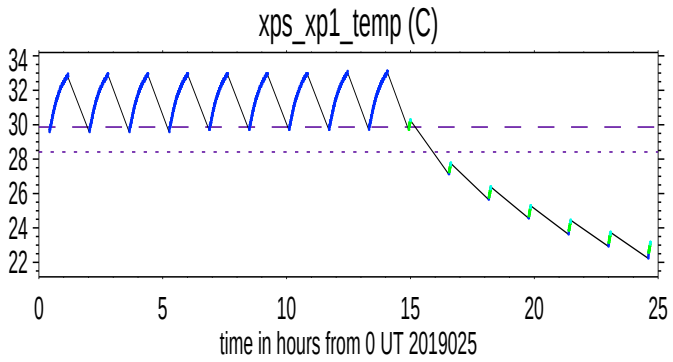

egs_15_conv_temp
Component not on today

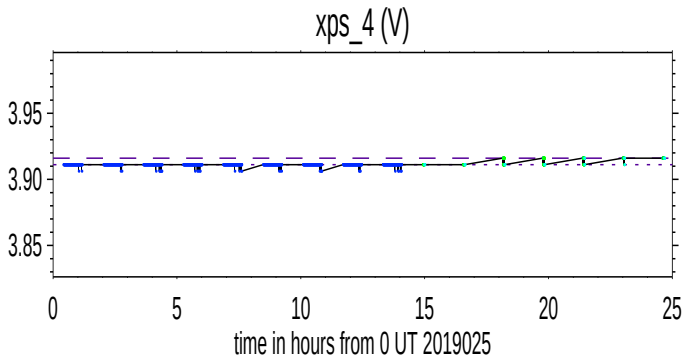

egs_chg_amp_temp
Component not on today

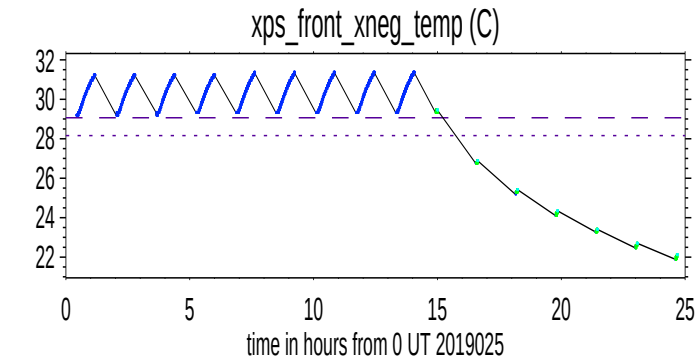

egs_adc_temp
Component not on today

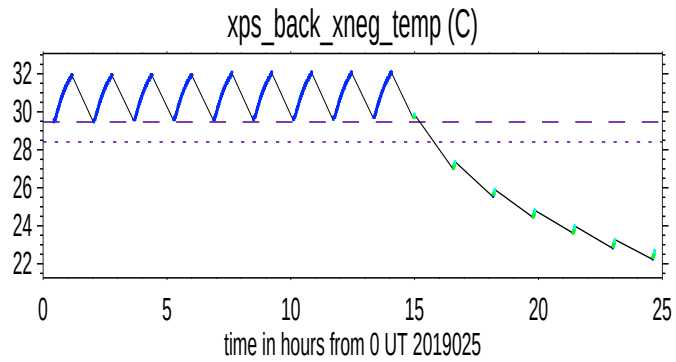

xps_xp2_temp (C)
time in hours from 0 UT 2019025

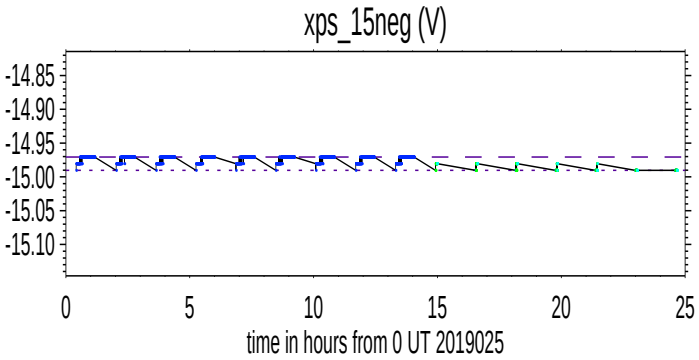

xps_data_fpga_temp (C)
time in hours from 0 UT 2019025

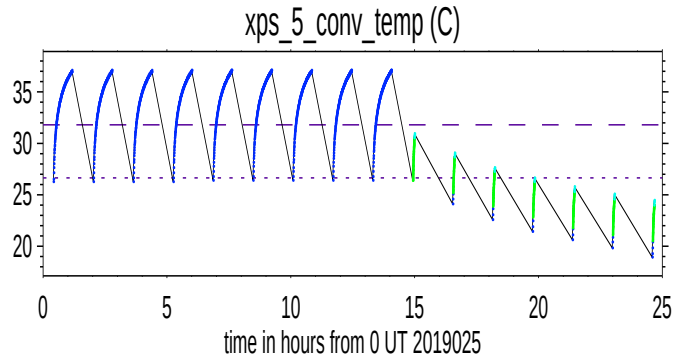

xps_xp1_temp (C)
time in hours from 0 UT 2019025

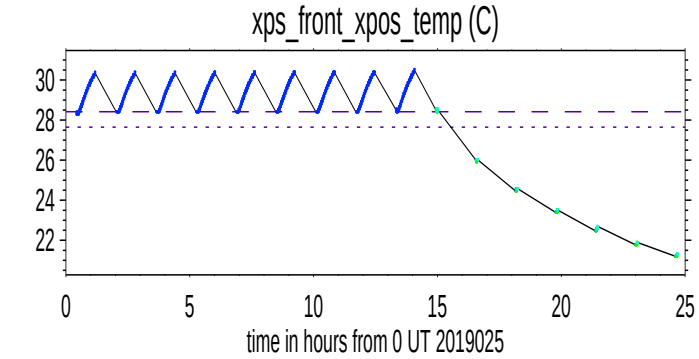

xps_4 (V)
time in hours from 0 UT 2019025

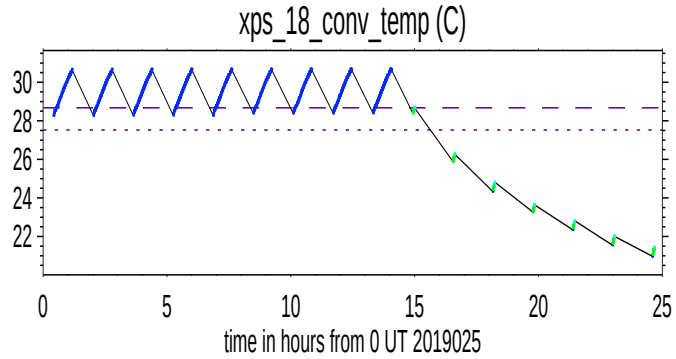

xps_front_xneg_temp (C)
32
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

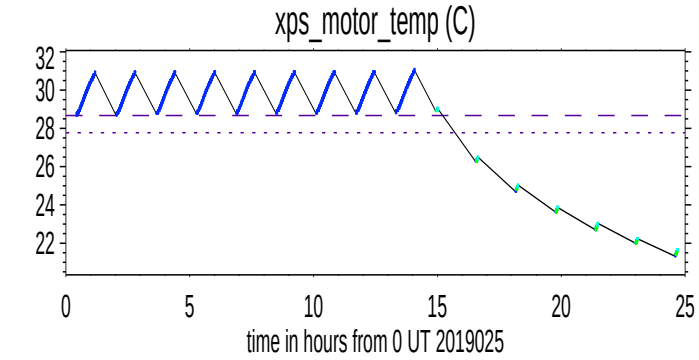

xps_back_xneg_temp (C)
32
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

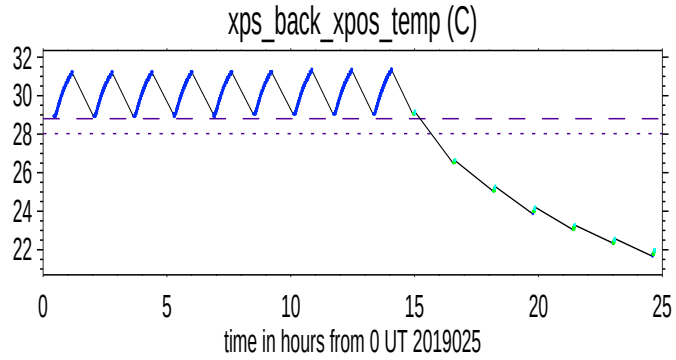

xps_15neg (V)
-14.85
-14.90
-14.95
-15.00
-15.05
-15.10
0
5
10
15
20
25
time in hours from 0 UT 2019025

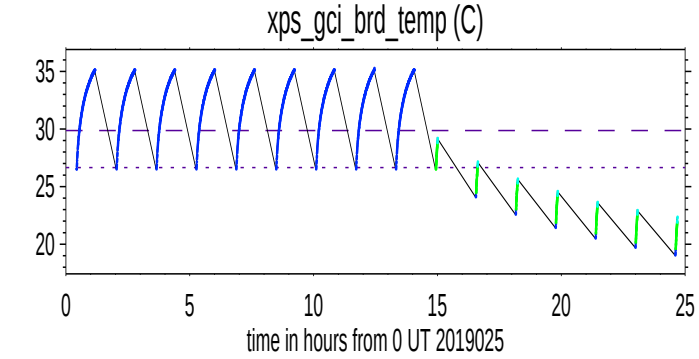

xps_5_conv_temp (C)
35
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

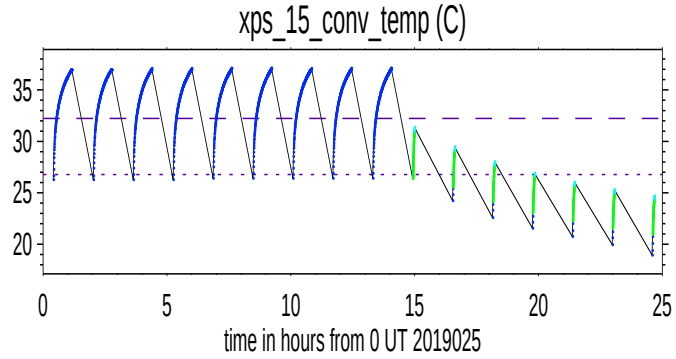

xps_front_xpos_temp (C)
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

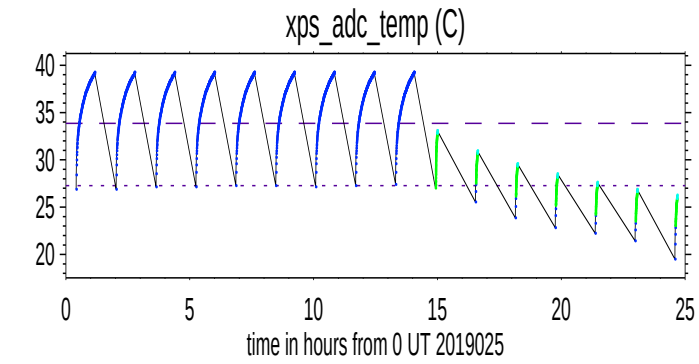

xps_18_conv_temp (C)
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

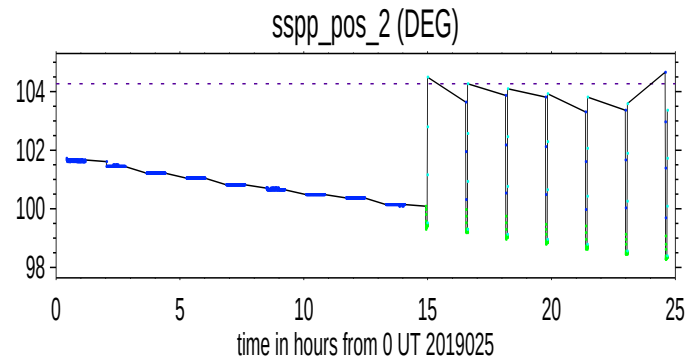

xps_motor_temp (C)
32
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

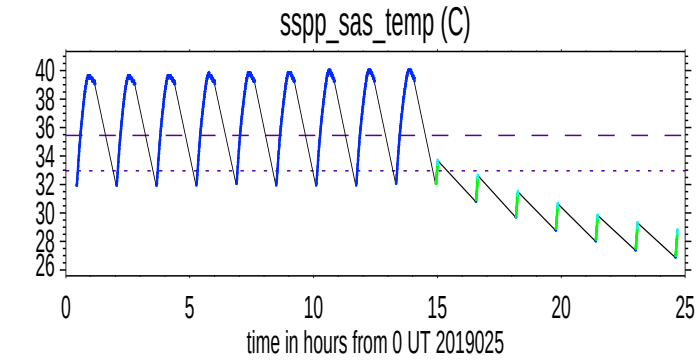

xps_back_xpos_temp (C)
32
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

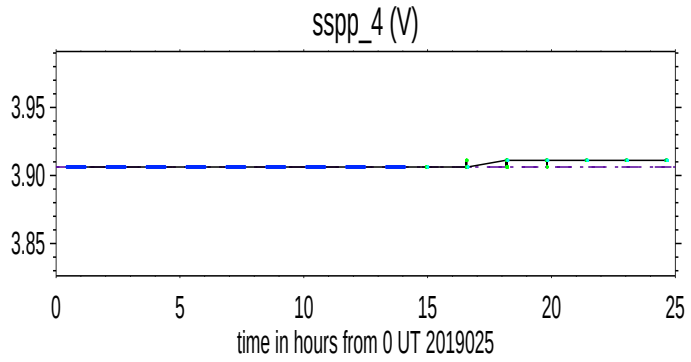

xps_gci_brd_temp (C)
35
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

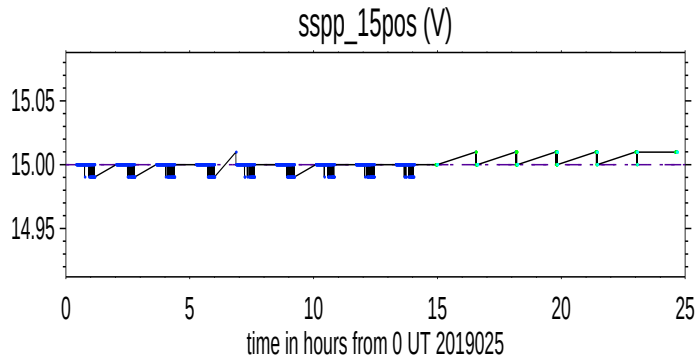

xps_15_conv_temp (C)
35
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

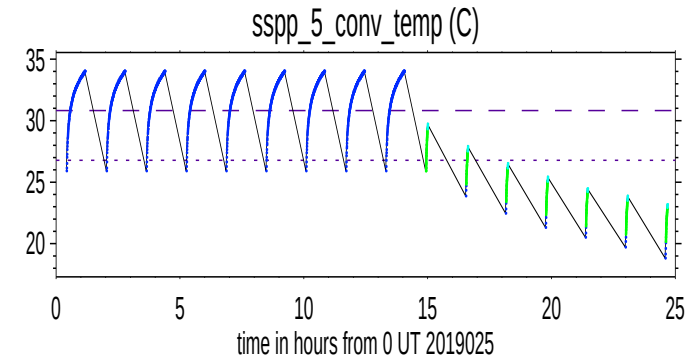

xps_adc_temp (C)
40
35
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

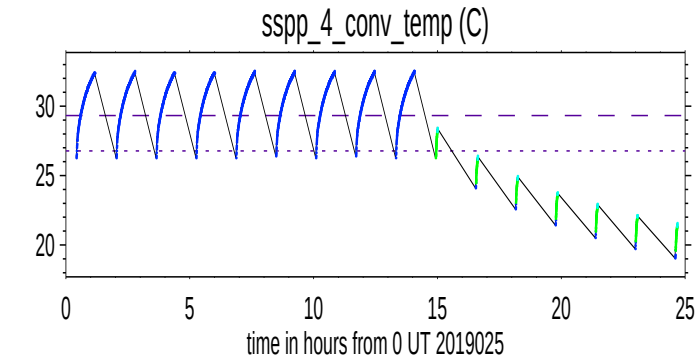

sspp_pos_2 (DEG)
104
102
100
98
0
5
10
15
20
25
time in hours from 0 UT 2019025

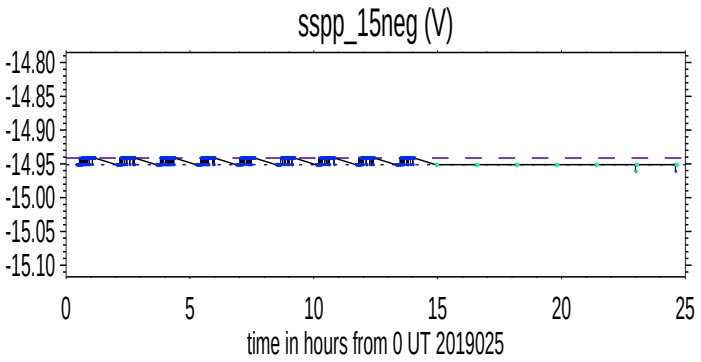

sspp_sas_temp (C)
40
38
36
34
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019025

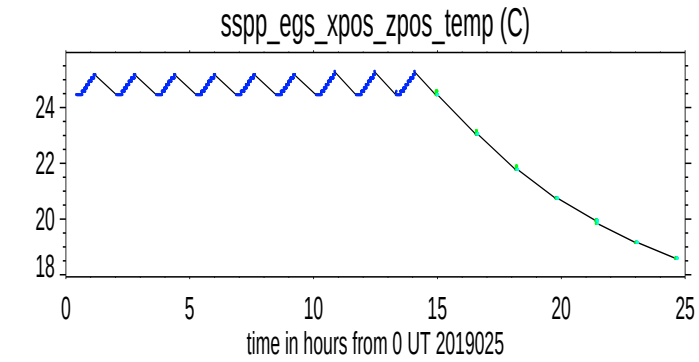

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019025

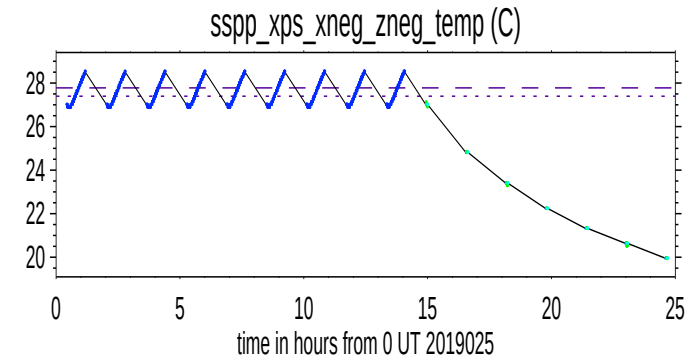

sspp_15pos (V)
15.05
15.00
14.95
0
5
10
15
20
25
time in hours from 0 UT 2019025

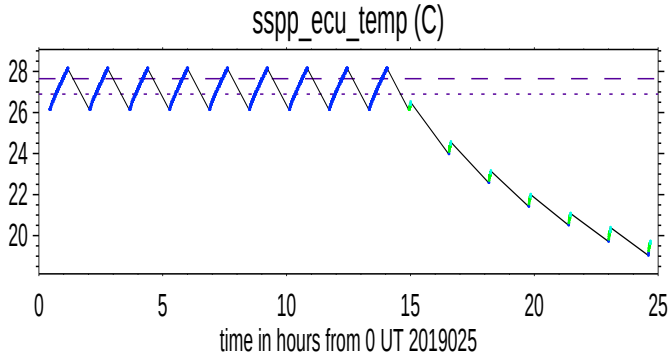

sspp_5_conv_temp (C)
35
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

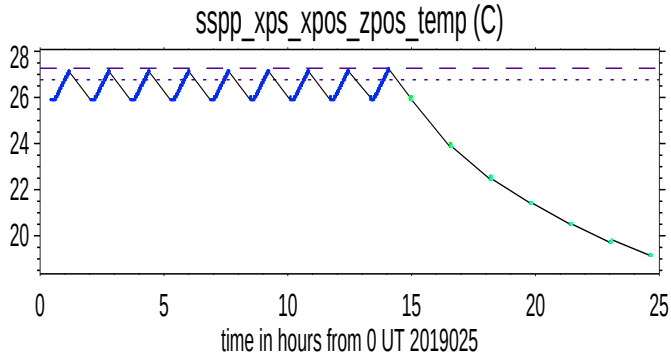

sspp_4_conv_temp (C)
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

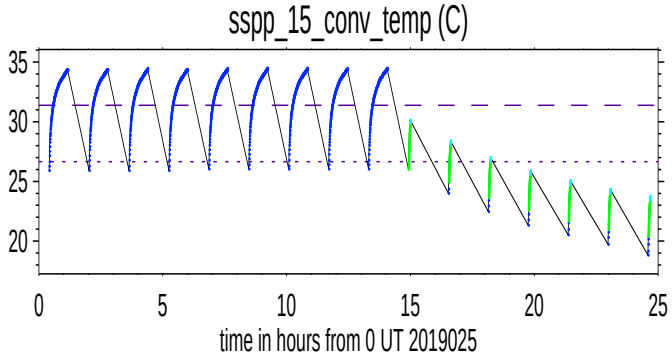

sspp_15neg (V)
-14.80
-14.85
-14.90
-14.95
-15.00
-15.05
-15.10
0
5
10
15
20
25
time in hours from 0 UT 2019025

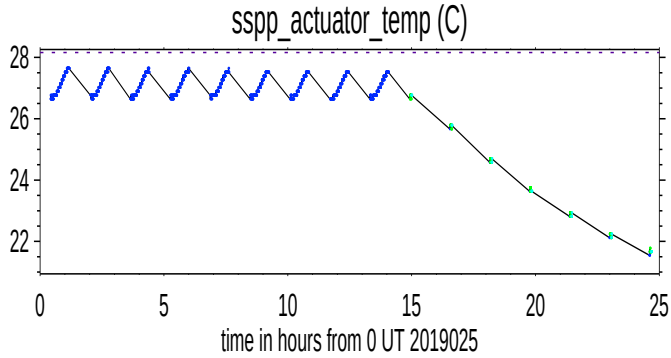

sspp_egs_xpos_zpos_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019025

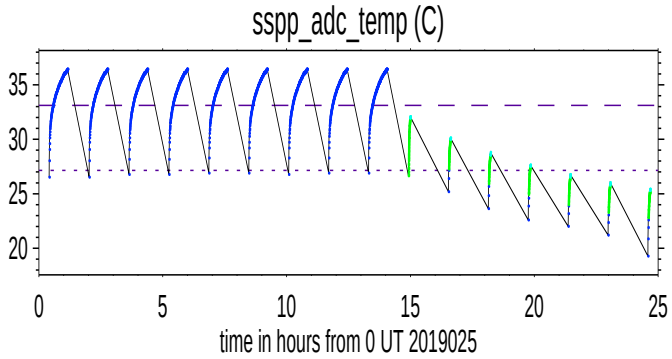

sspp_xps_xneg_zneg_temp (C)
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

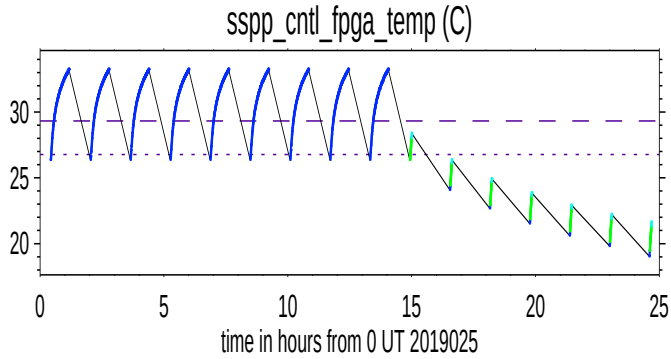

sspp_ecu_temp (C)
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

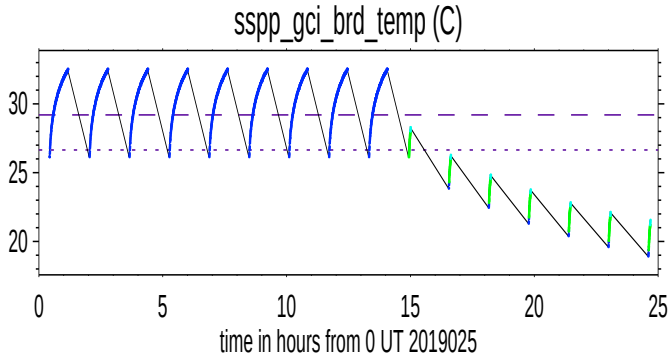

sspp_xps_xpos_zpos_temp (C)
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

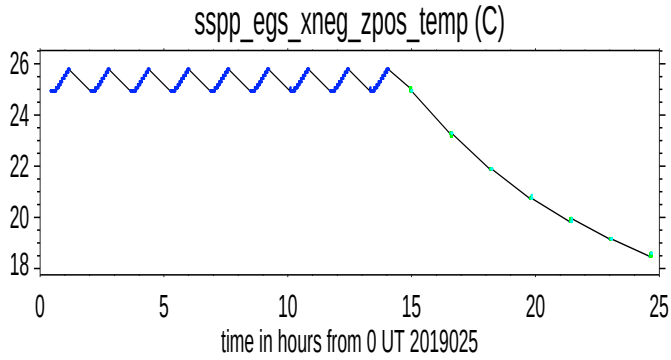

sspp_15_conv_temp (C)
35
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

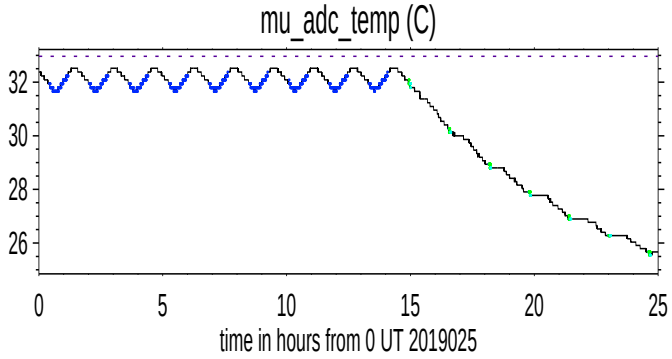

sspp_actuator_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019025

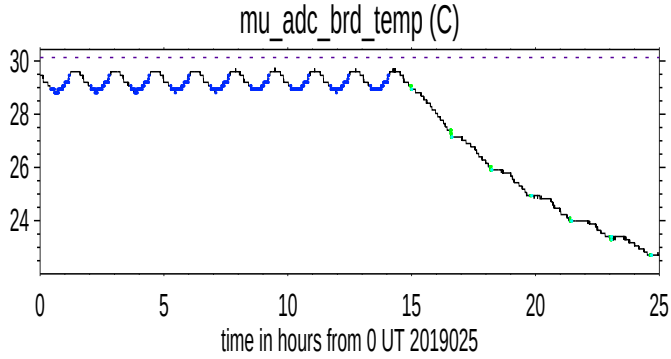

sspp_adc_temp (C)
35
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

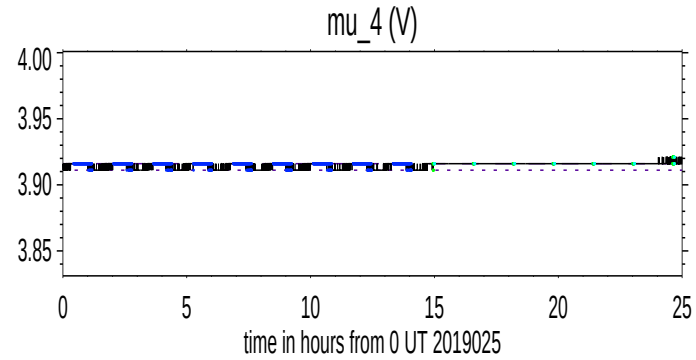

sspp_cntl_fpga_temp (C)
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

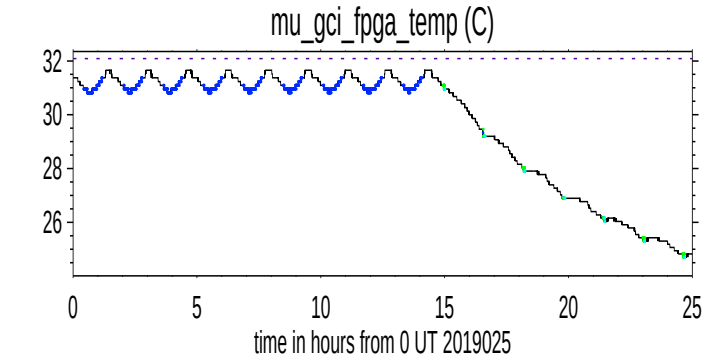

sspp_gci_brd_temp (C)
30
25
20
0
5
10
15
20
25
time in hours from 0 UT 2019025

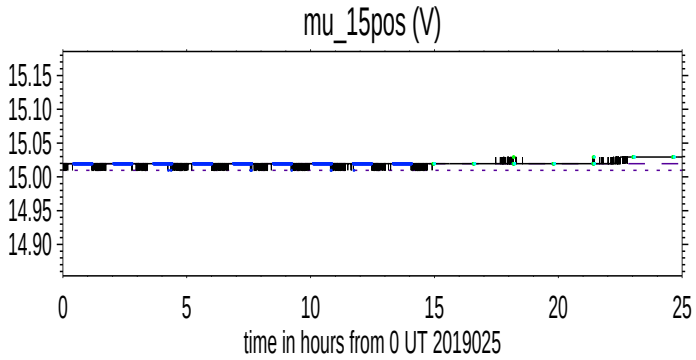

sspp_egs_xneg_zpos_temp (C)
26
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019025

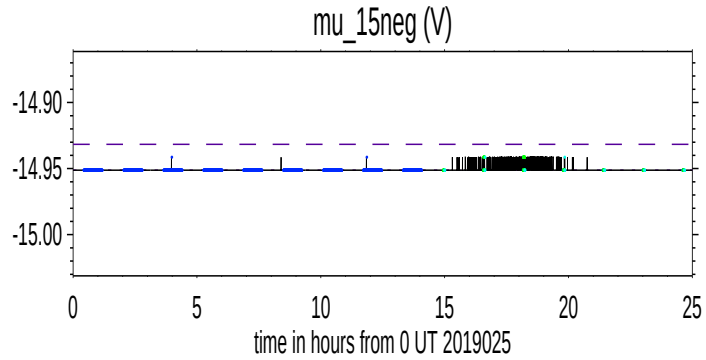

mu_adc_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019025

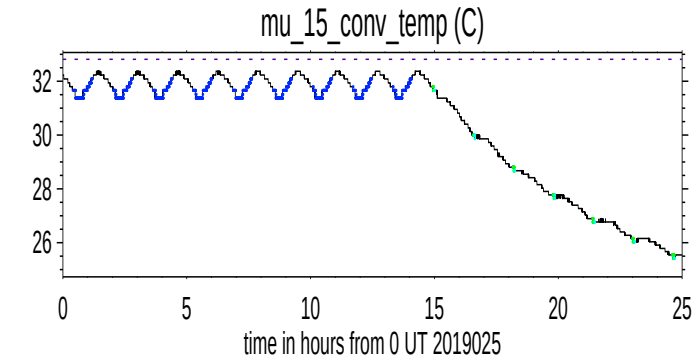

mu_adc_brd_temp (C)
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019025

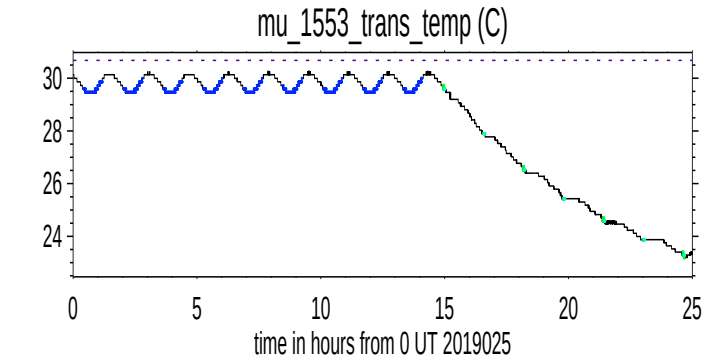

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019025

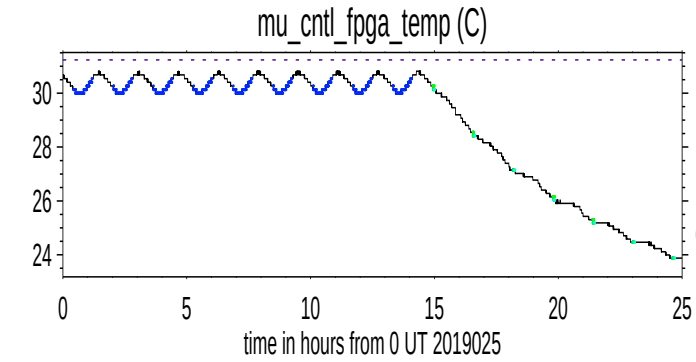

mu_gci_fpga_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019025

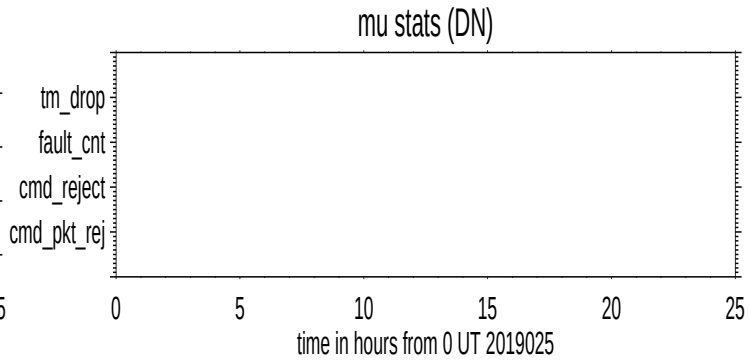

mu_15pos (V)
15.15
15.10
15.05
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2019025

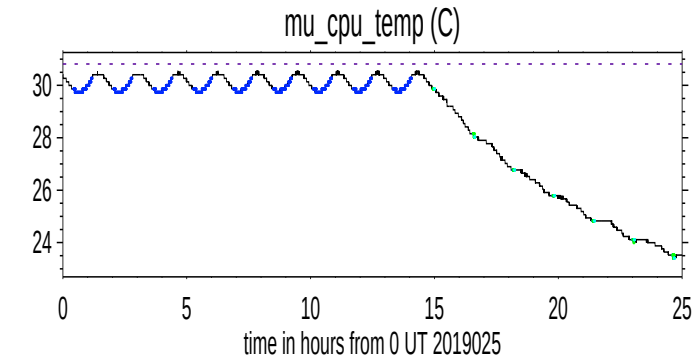

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019025

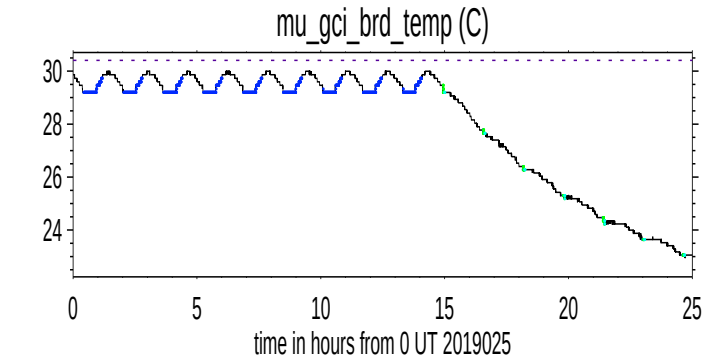

mu_15_conv_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019025

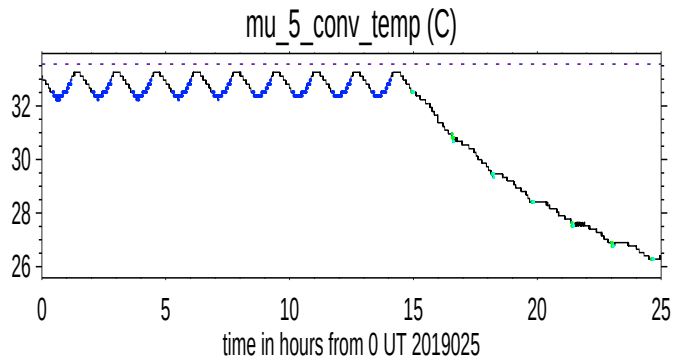

mu_1553_trans_temp (C)
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019025

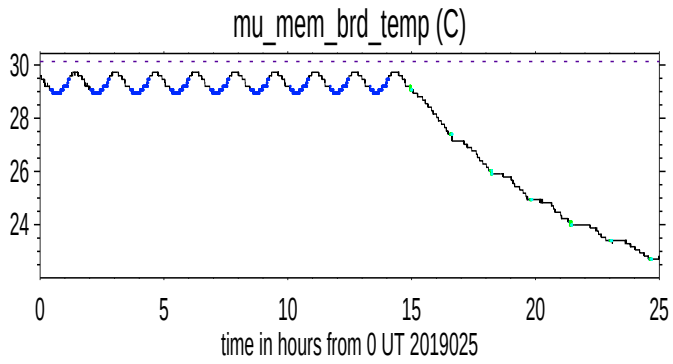

mu_cntl_fpga_temp (C)
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019025

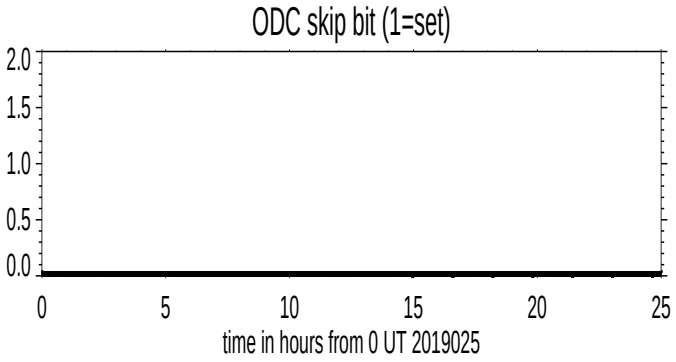

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2019025

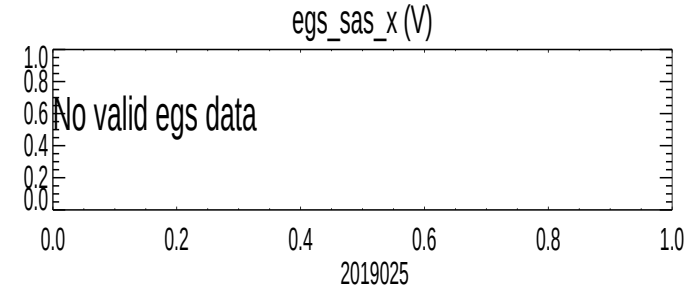

mu_cpu_temp (C)
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019025

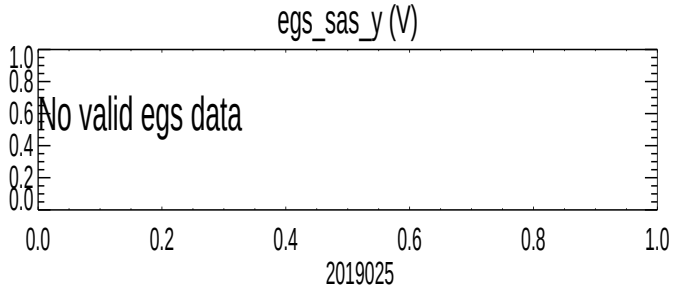

mu_gci_brd_temp (C)
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019025

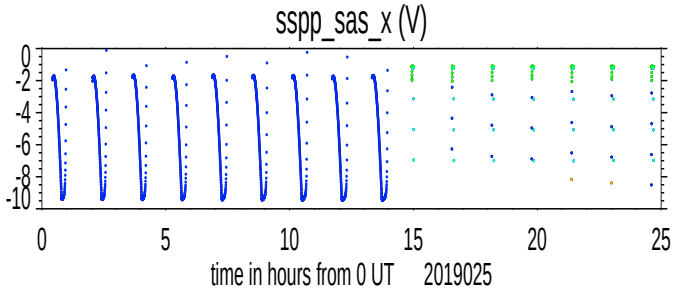

mu_5_conv_temp (C)
32
30
28
26
0
5
10
15
20
25
time in hours from 0 UT 2019025

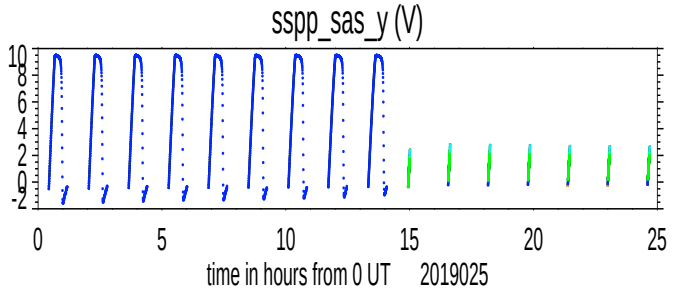

mu_mem_brd_temp (C)
30
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019025

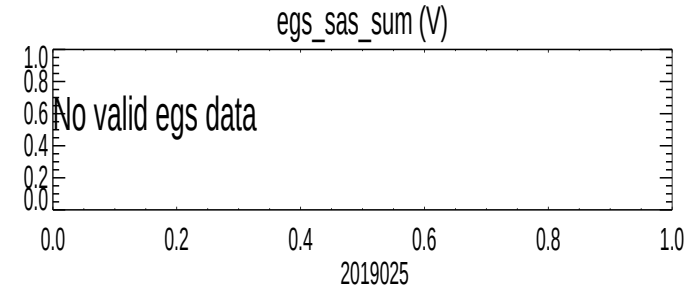

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2019025

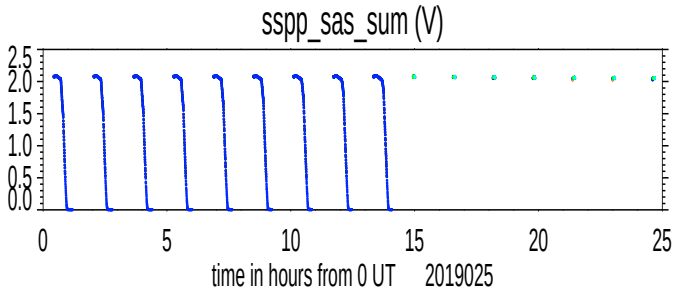

egs_sas_x (V)
No valid egs data
2019025

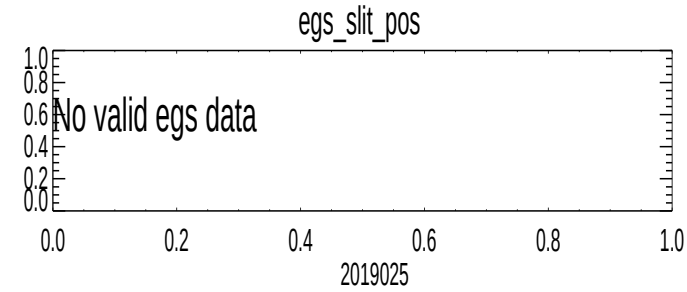

egs_sas_y (V)
No valid egs data
2019025

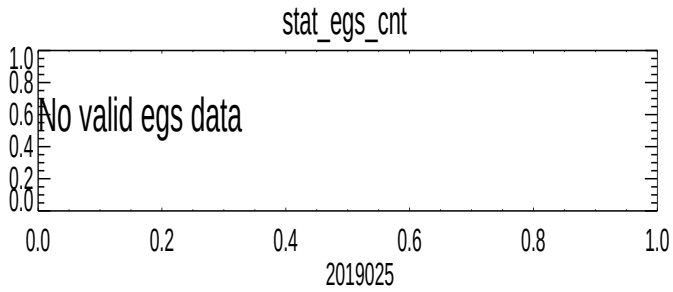

sspp_sas_x (V)
time in hours from 0 UT 2019025

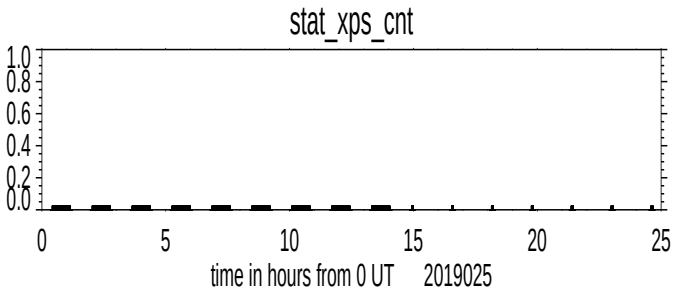

sspp_sas_y (V)
time in hours from 0 UT 2019025

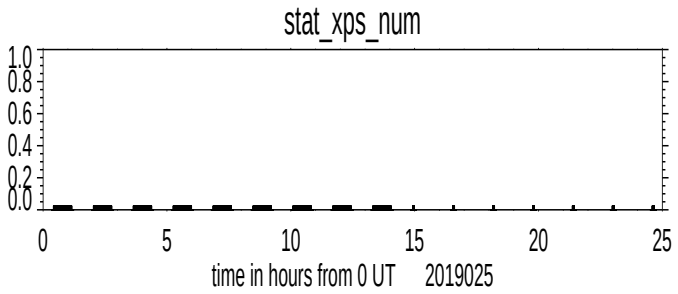

egs_sas_sum (V)
No valid egs data
2019025

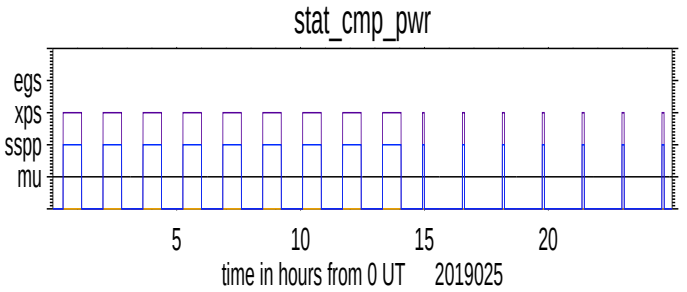

sspp_sas_sum (V)
time in hours from 0 UT 2019025


egs_slit_pos
No valid egs data
2019025

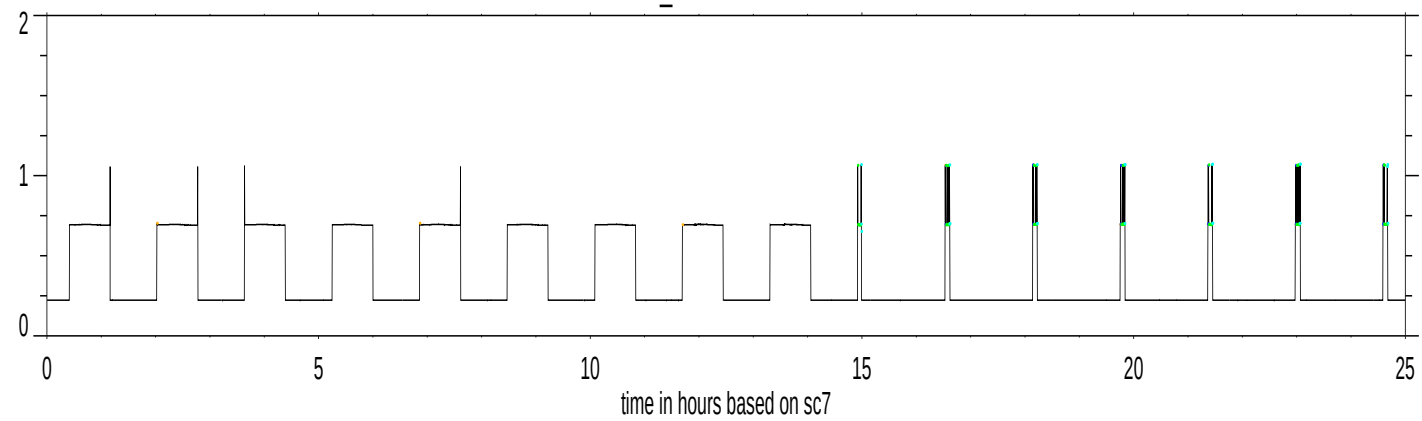

stat_egs_cnt
No valid egs data
2019025


stat_xps_cnt
time in hours from 0 UT 2019025

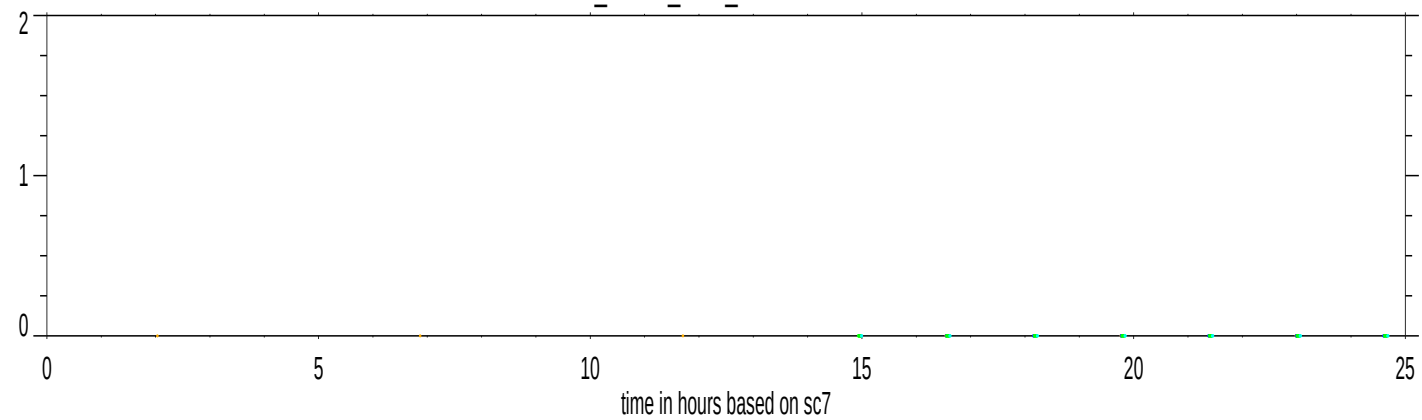

stat_xps_num
time in hours from 0 UT 2019025


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2019025

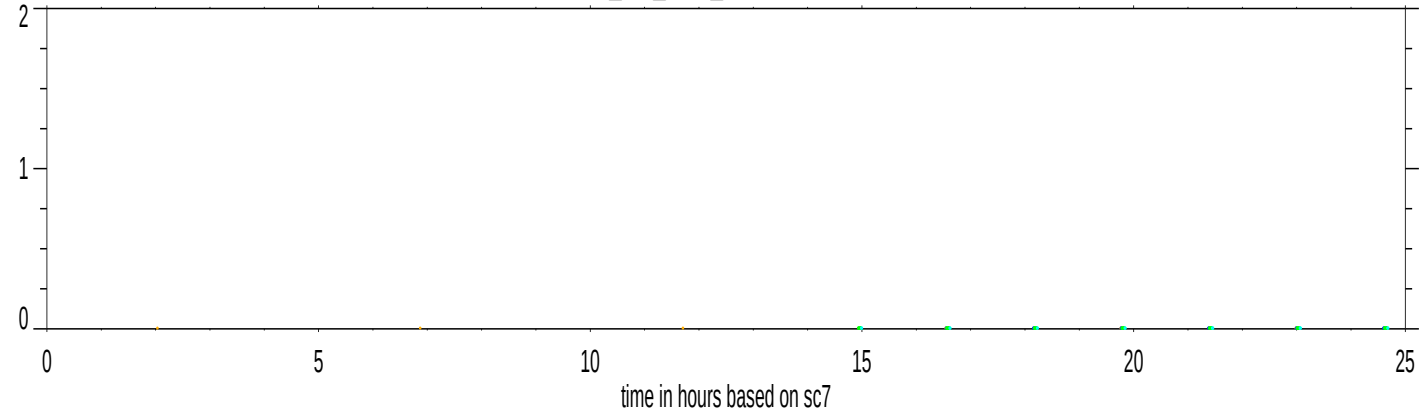
SEE_CUR 2019025



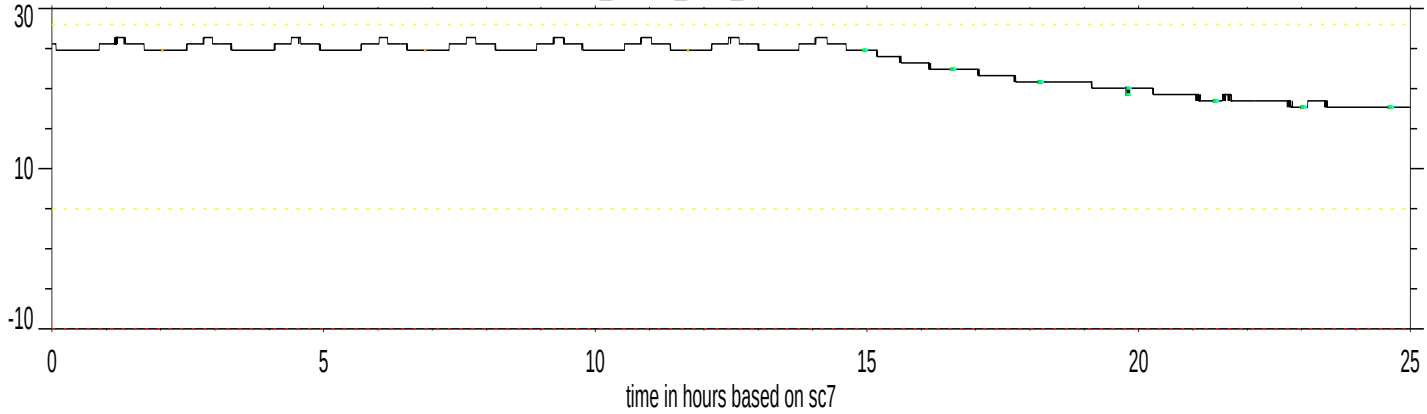
SEE_SURV_HTR_CUR 2019025



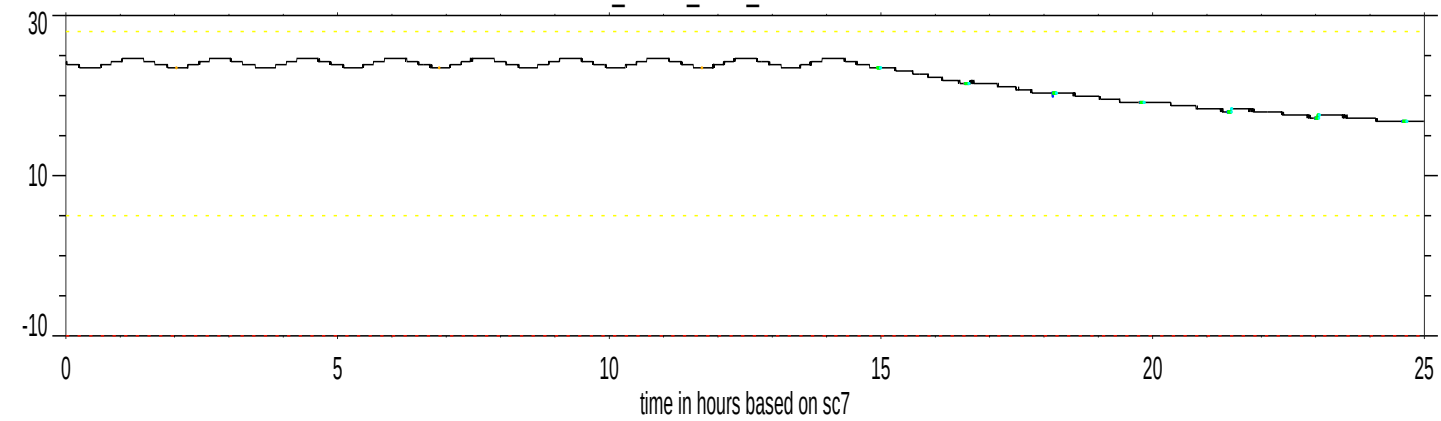
SEE_OP_HTR_CUR 2019025



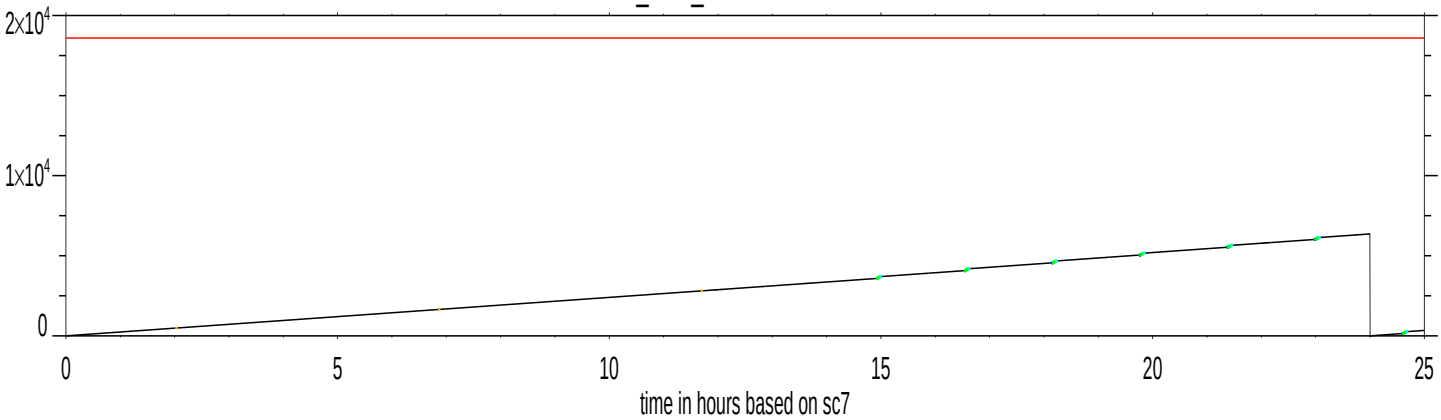
SSPP_BHND_XPS_TEMP 2019025



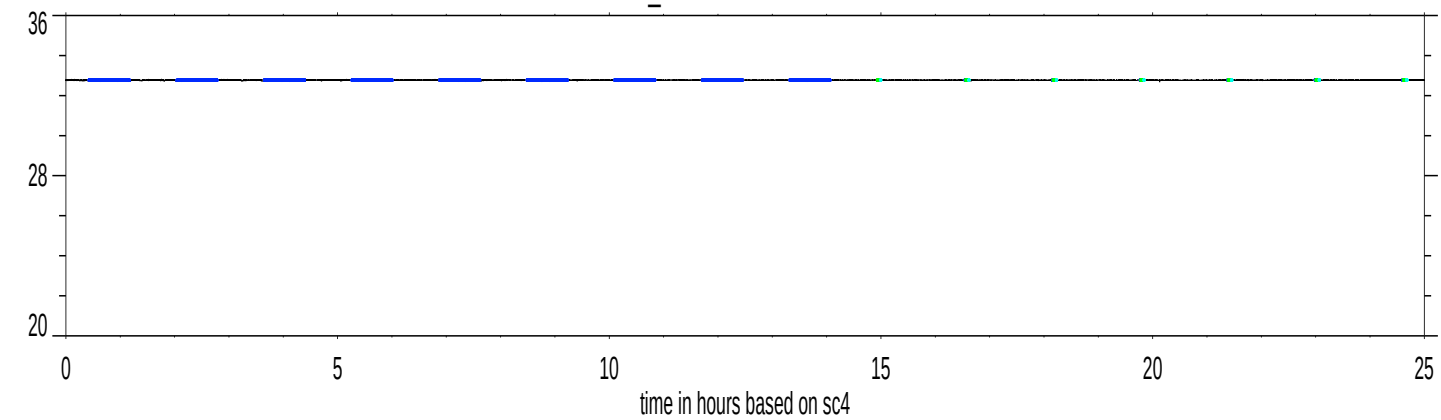
SSPP_BHND_MTR_TEMP 2019025



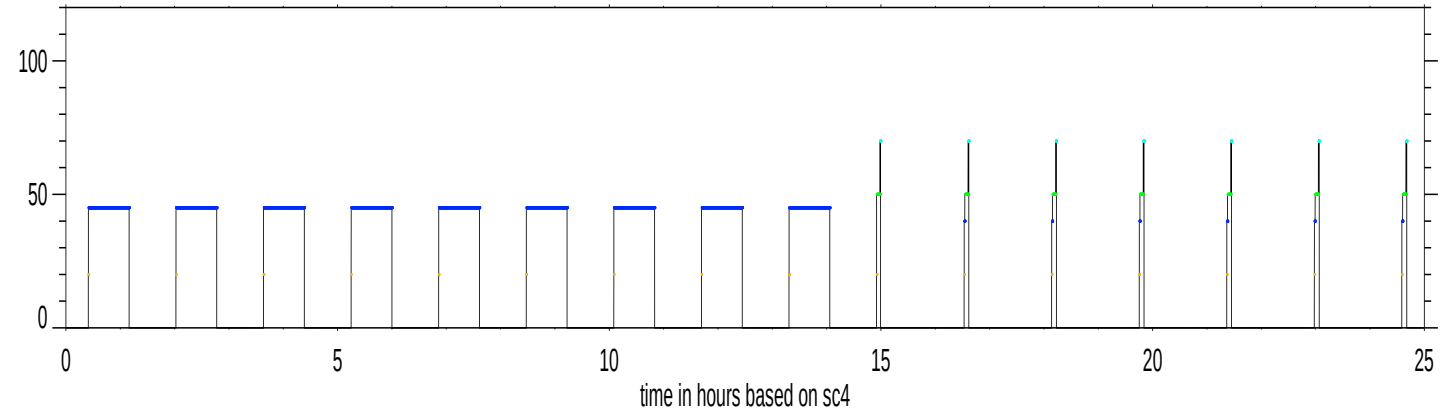
SEE_PKT_COUNT 2019025

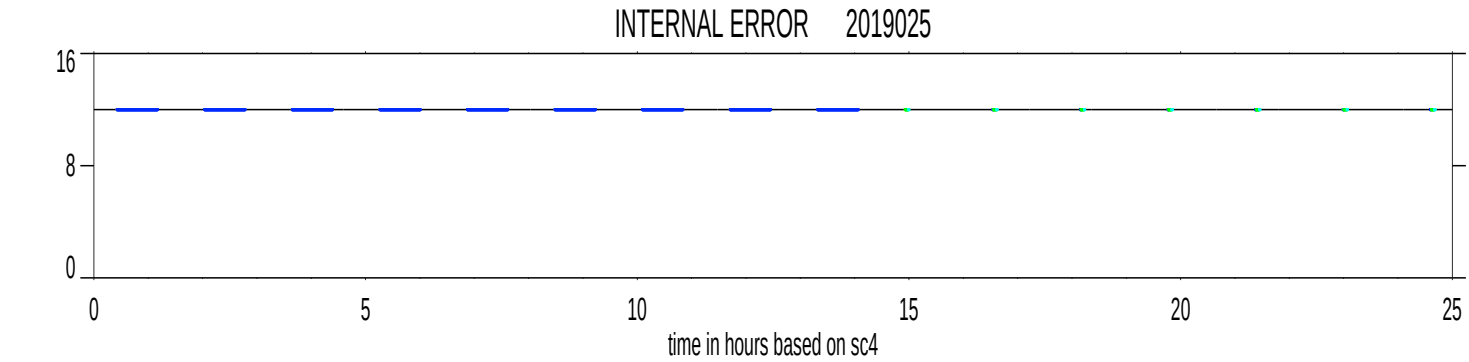


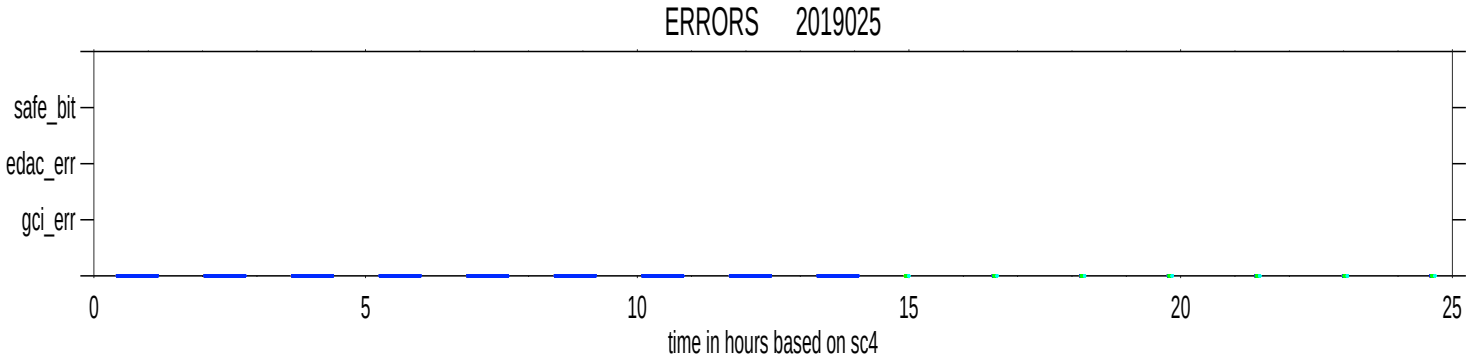
BUS_VOLTAGE 2019025

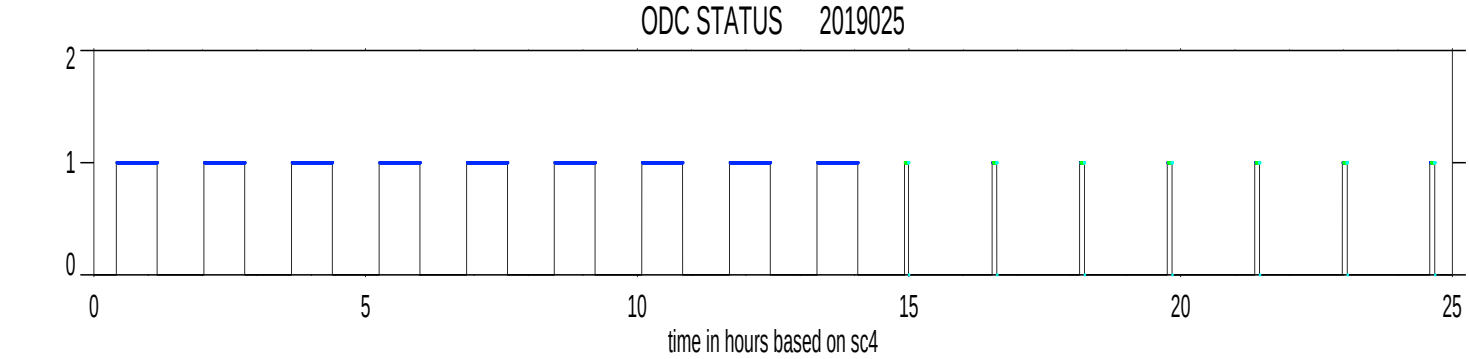


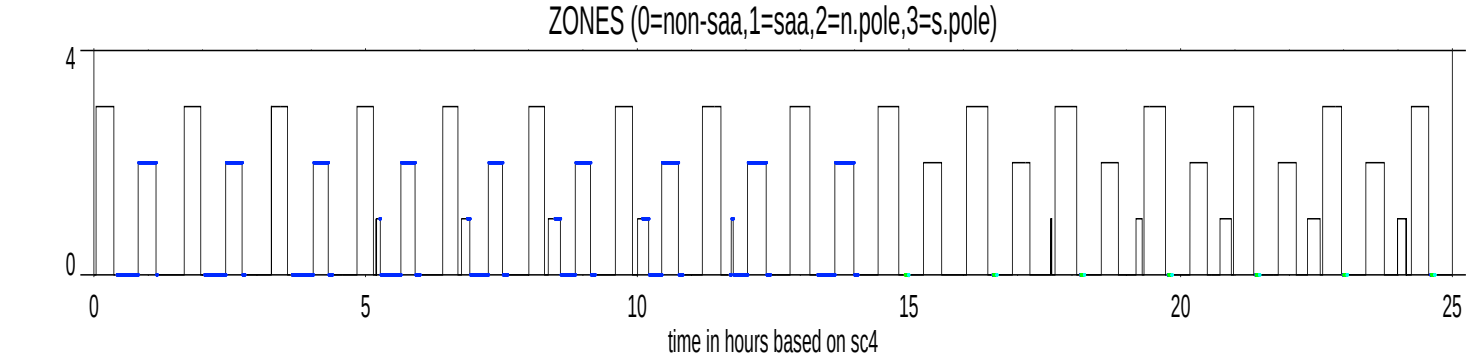
SEE_MU Operational Mode 2019025

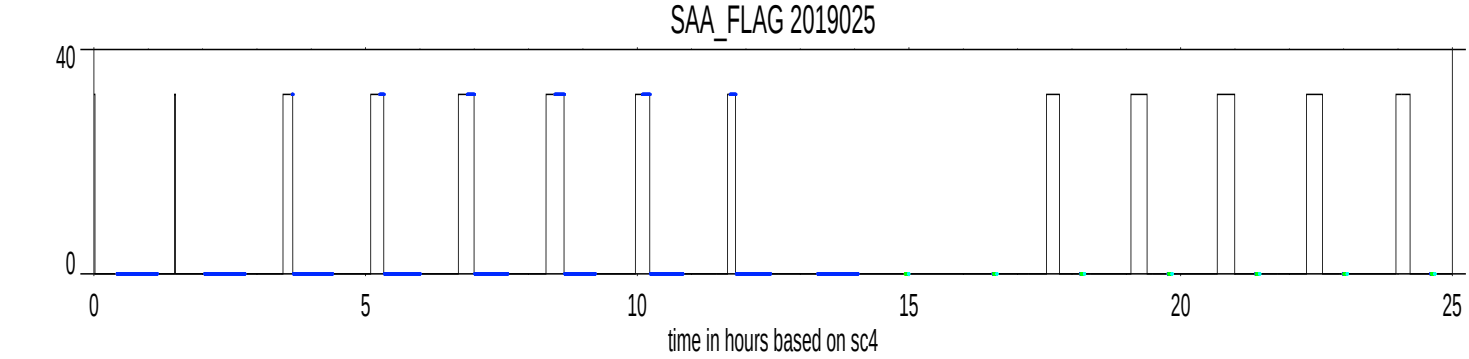


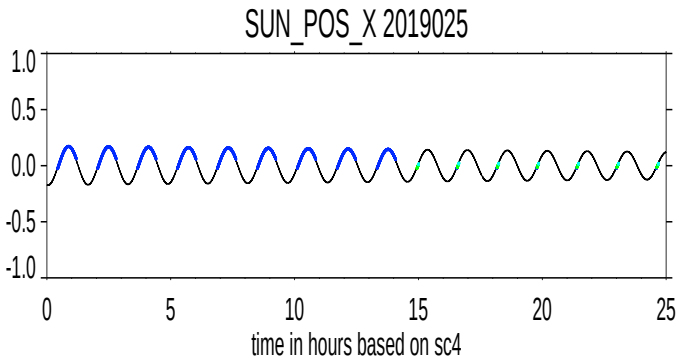

INTERNAL ERROR 2019025
16
8
0
0
5
10
15
20
25
time in hours based on sc4

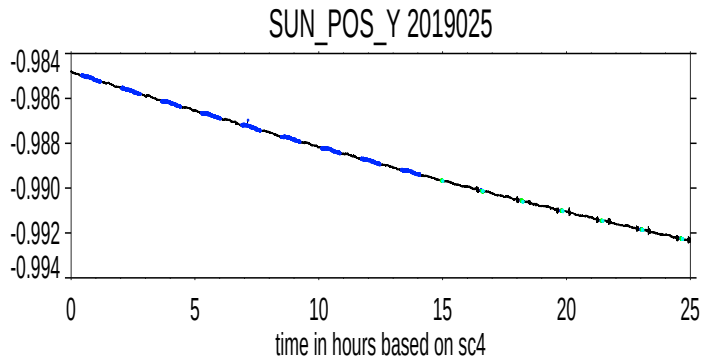

ERRORS 2019025
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

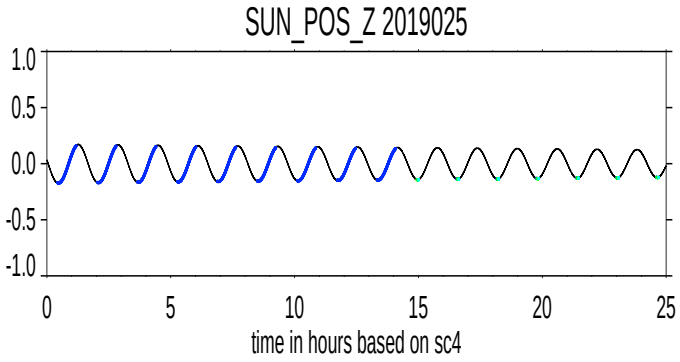

ODC STATUS 2019025
2
1
0
0
5
10
15
20
25
time in hours based on sc4

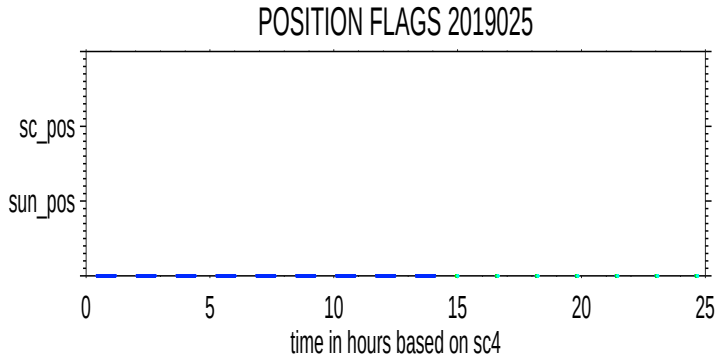

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

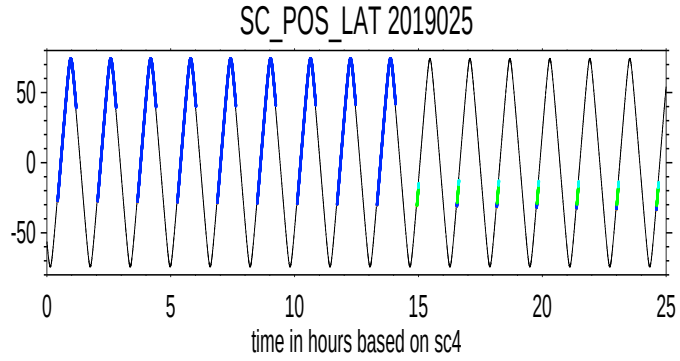

SAA_FLAG 2019025
40
0
0
5
10
15
20
25
time in hours based on sc4

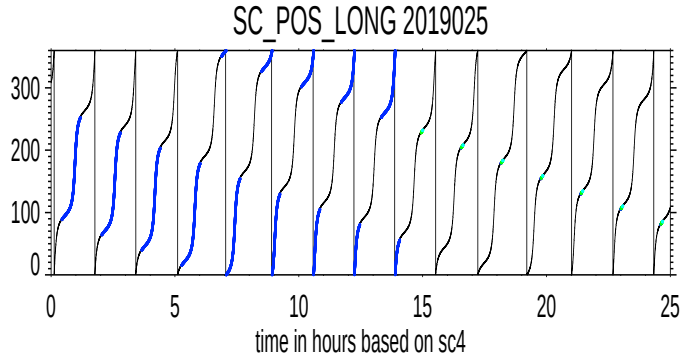

SUN_POS_X 2019025
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

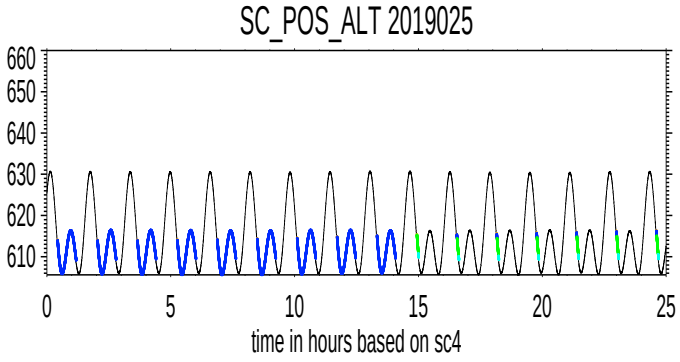

SUN_POS_Y 2019025
-0.984
-0.986
-0.988
-0.990
-0.992
-0.994
0
5
10
15
20
25
time in hours based on sc4

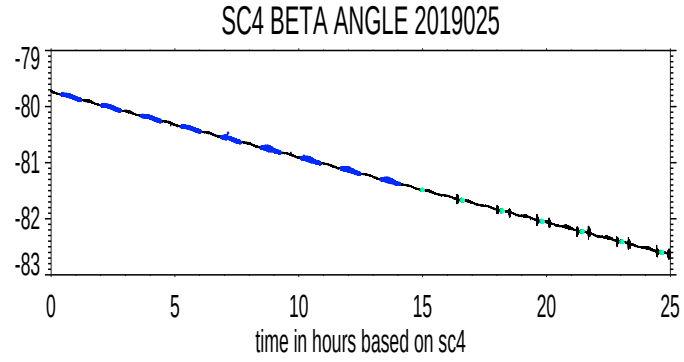

SUN_POS_Z 2019025
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2019025
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2019025
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2019025
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2019025
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2019025
-79
-80
-81
-82
-83
0
5
10
15
20
25
time in hours based on sc4