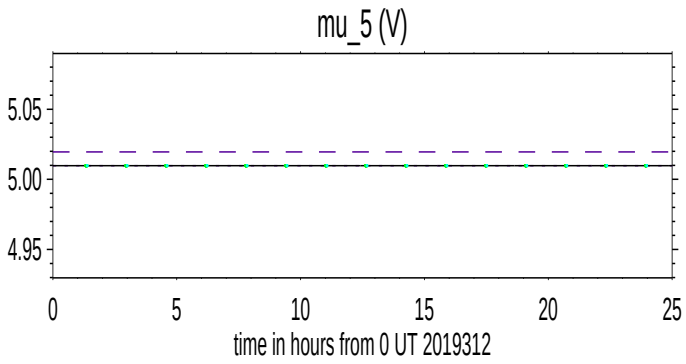
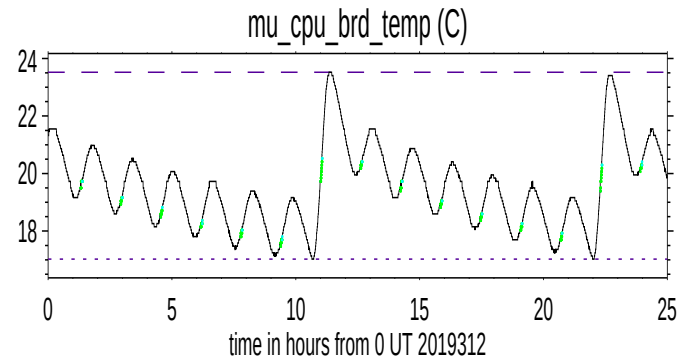
```
Information for      2019312
03:46:02.375: hk: 3 cmd pkt accepted   cmd = ODCs Loaded
03:46:17.375: hk: 9 cmd pkt accepted   cmd = ODCs Loaded
03:46:32.375: hk: 6 cmd pkt accepted   cmd = ODCs Loaded
```


mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2019312


mu_cpu_brd_temp (C)
24
22
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18
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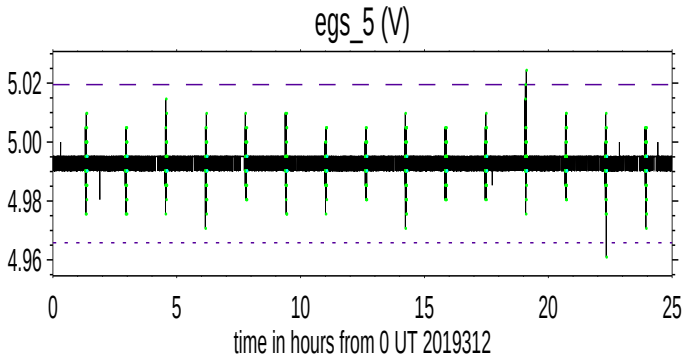
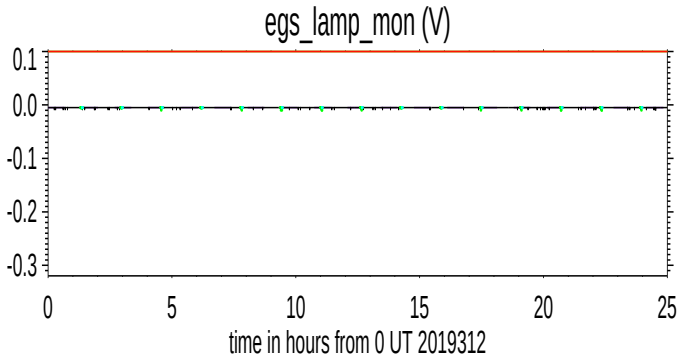
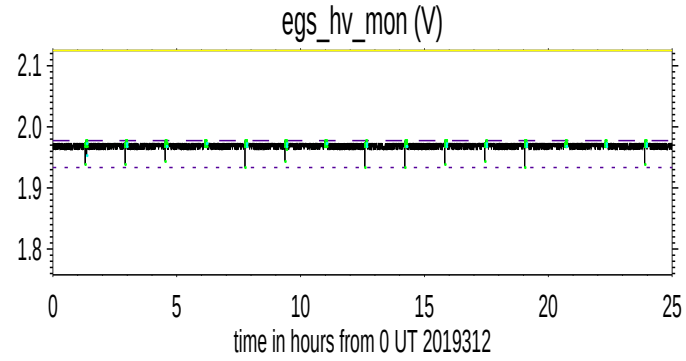
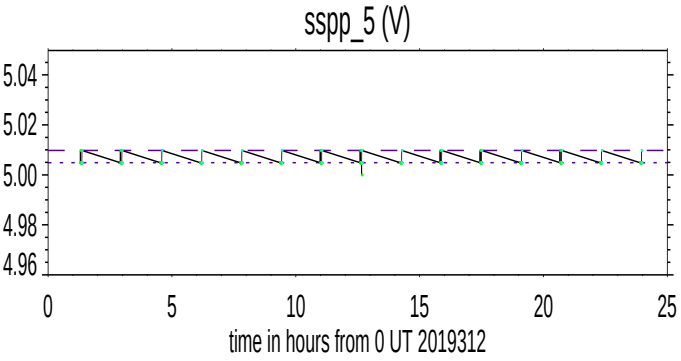
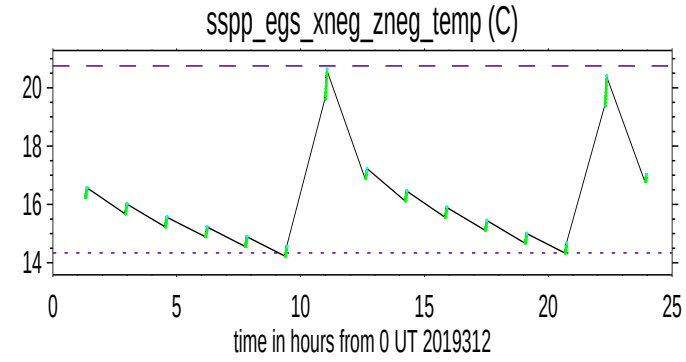
10
15
20
25
time in hours from 0 UT 2019312

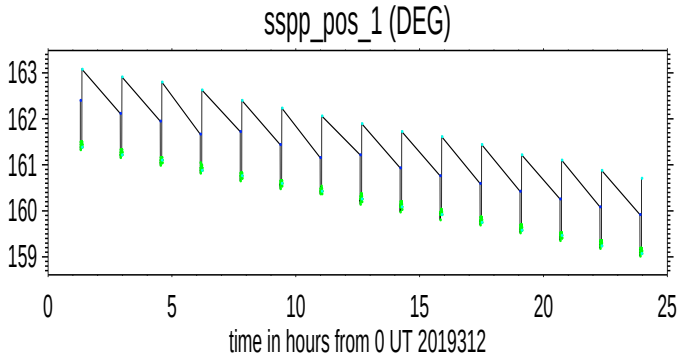

egs_5 (V)
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019312

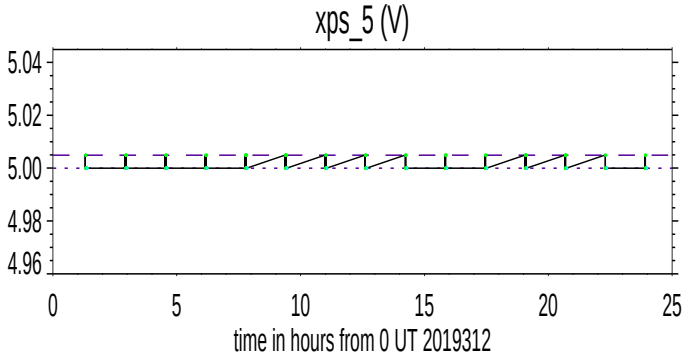

egs_lamp_mon (V)
0.1
0.0
-0.1
-0.2
-0.3
0
5
10
15
20
25
time in hours from 0 UT 2019312

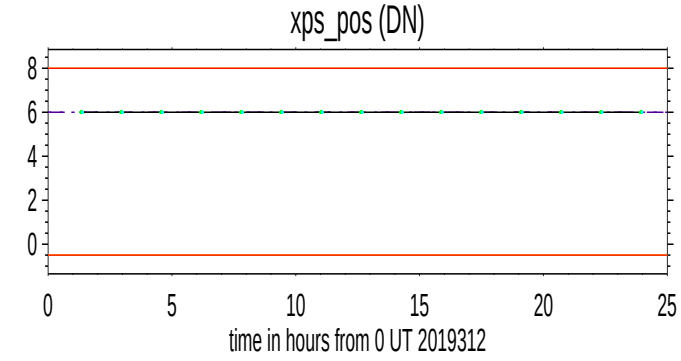

egs_hv_mon (V)
2.1
2.0
1.9
1.8
0
5
10
15
20
25
time in hours from 0 UT 2019312

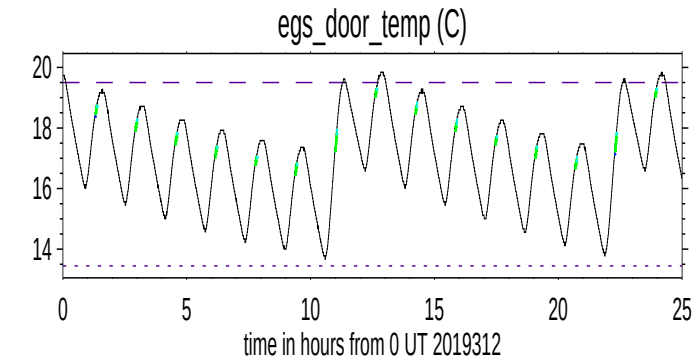

sspp_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019312

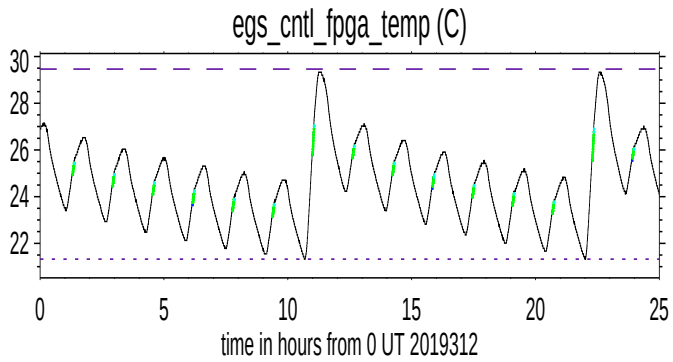

sspp_egs_xneg_zneg_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

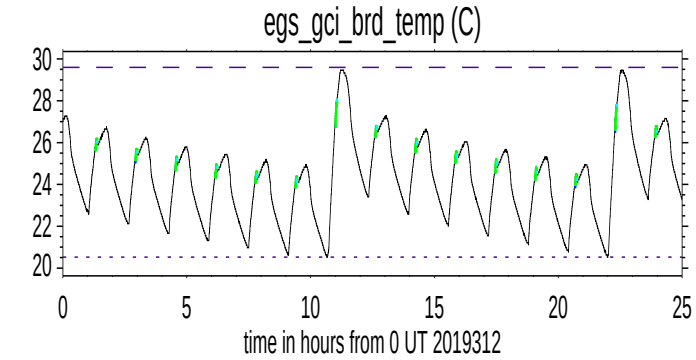

sspp_pos_1 (DEG)
163
162
161
160
159
0
5
10
15
20
25
time in hours from 0 UT 2019312

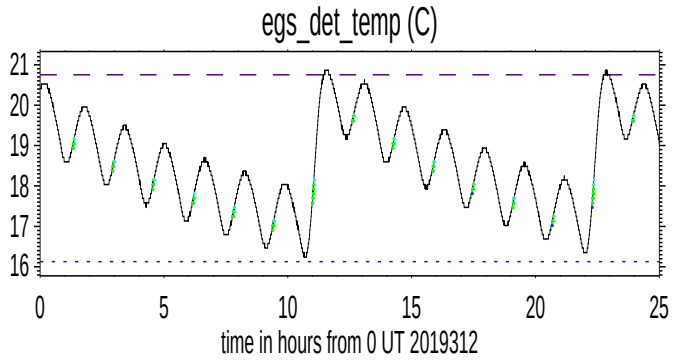

xps_5 (V)
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019312

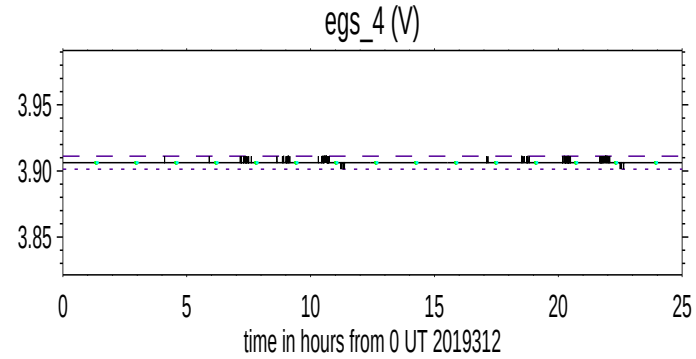

xps_pos (DN)
8
6
4
2
0
0
5
10
15
20
25
time in hours from 0 UT 2019312

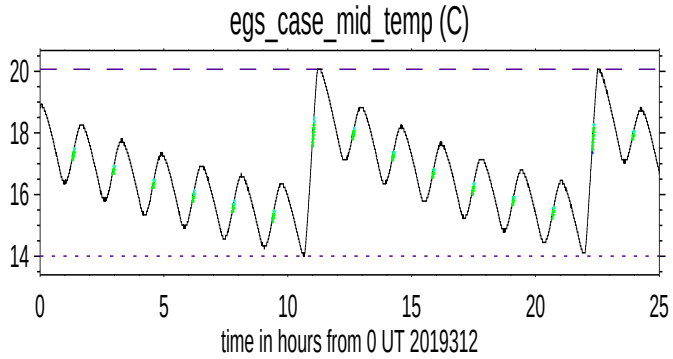

egs_door_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

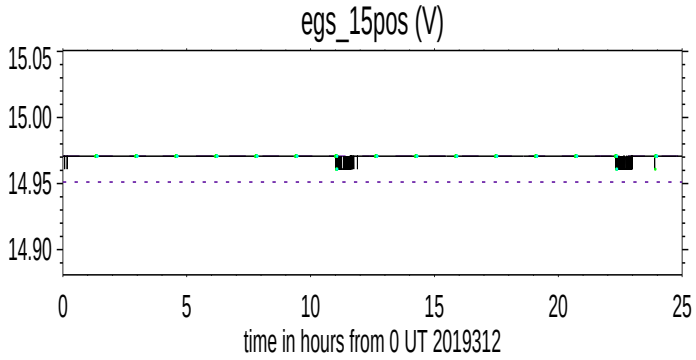

egs_cntl_fpga_temp (C)
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019312

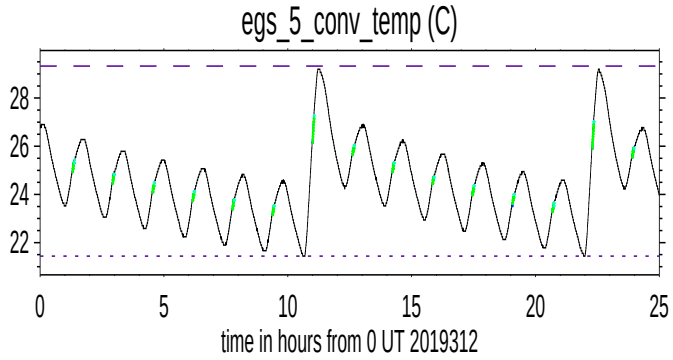

egs_gci_brd_temp (C)
30
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019312

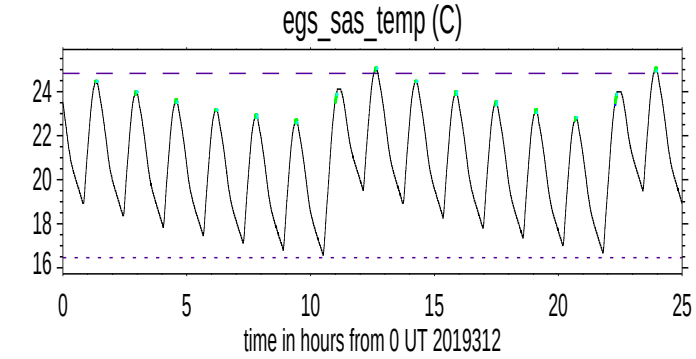

egs_det_temp (C)
21
20
19
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_case_mid_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_15pos (V)
15.05
15.00
14.95
14.90
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_sas_temp (C)
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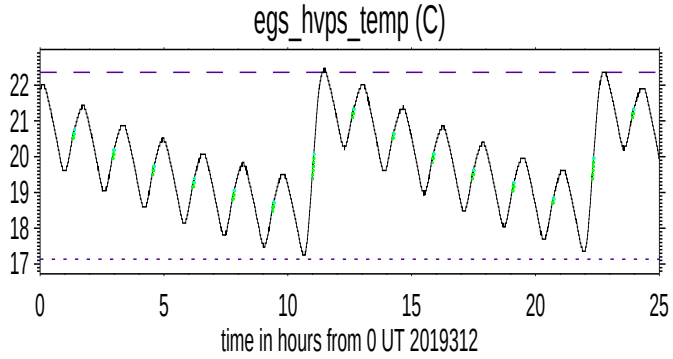
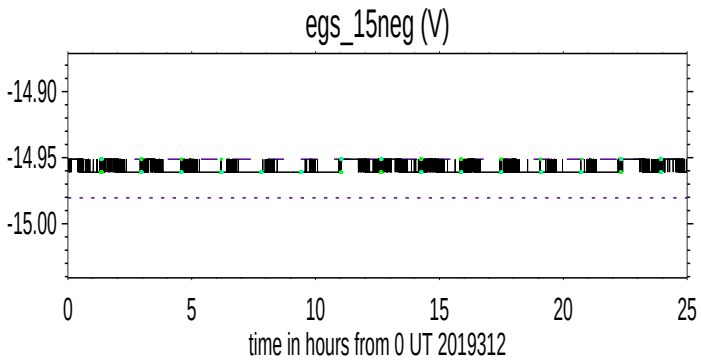
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_hvps_temp (C)
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_15neg (V)
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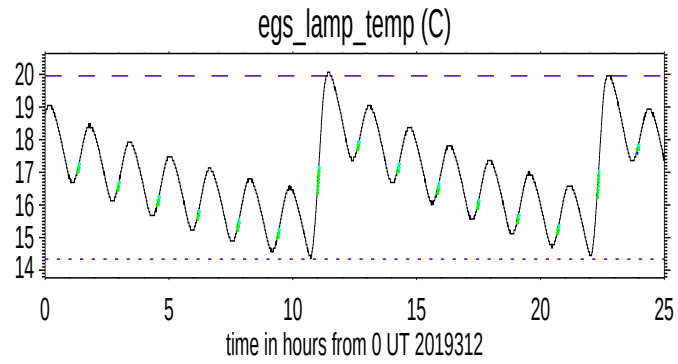
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_lamp_temp (C)
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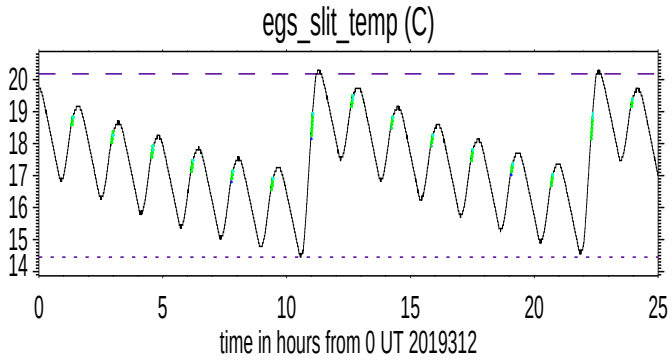
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019312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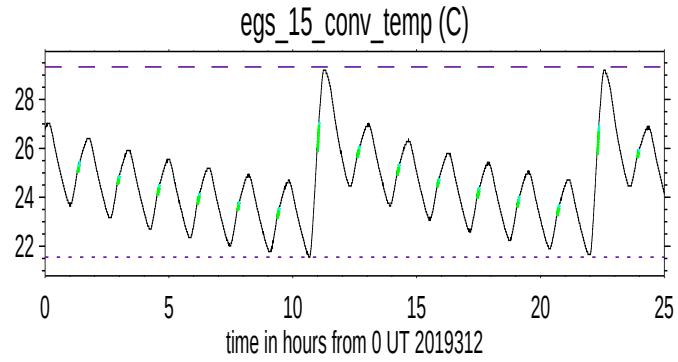
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_15_conv_temp (C)
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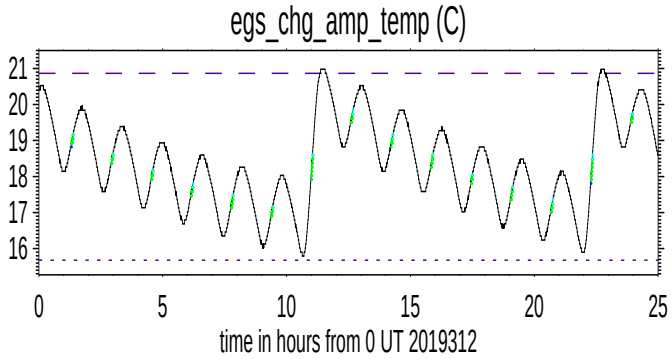
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_chg_amp_temp (C)
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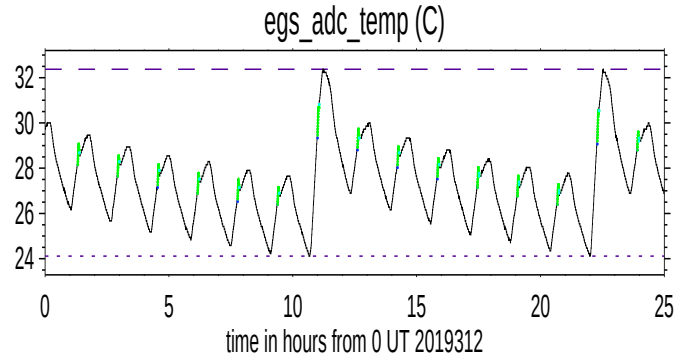
20
19
18
17
16
0
5
10
15
20
25
time in hours from 0 UT 2019312


egs_adc_temp (C)
32
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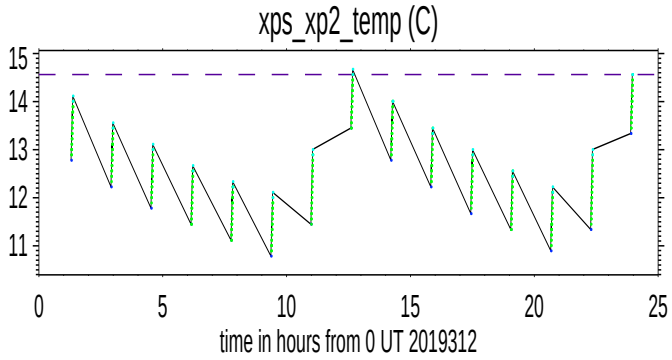
28
26
24
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_xp2_temp (C)
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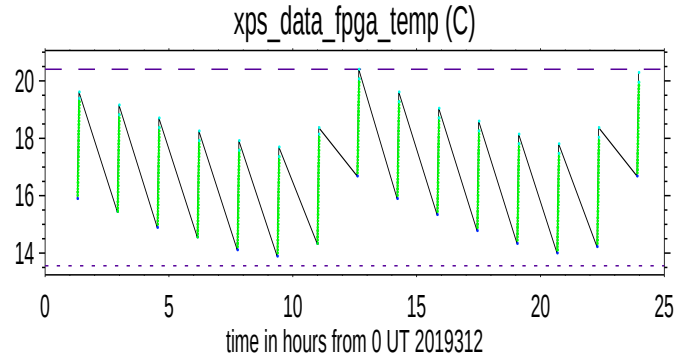
14
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_data_fpga_temp (C)
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14
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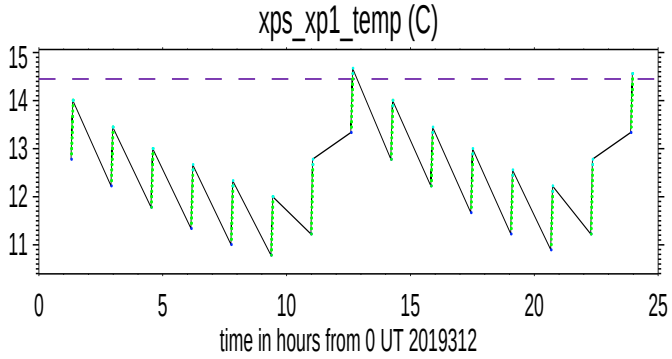
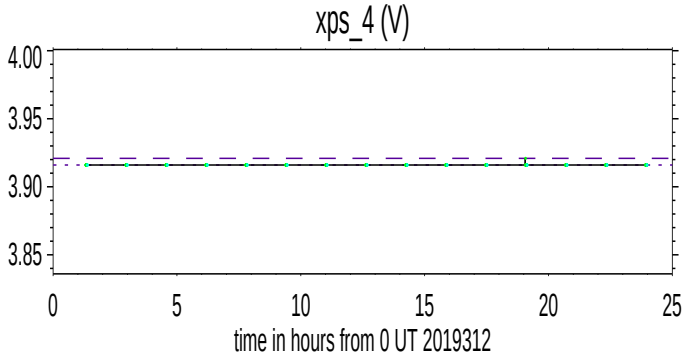
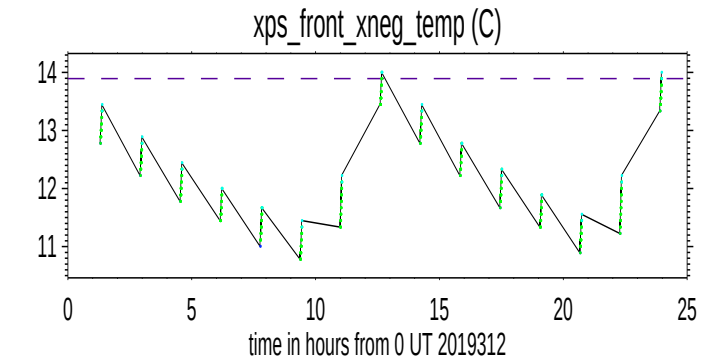
5
10
15
20
25
time in hours from 0 UT 2019312


xps_xp1_temp (C)
15
14
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_front_xneg_temp (C)
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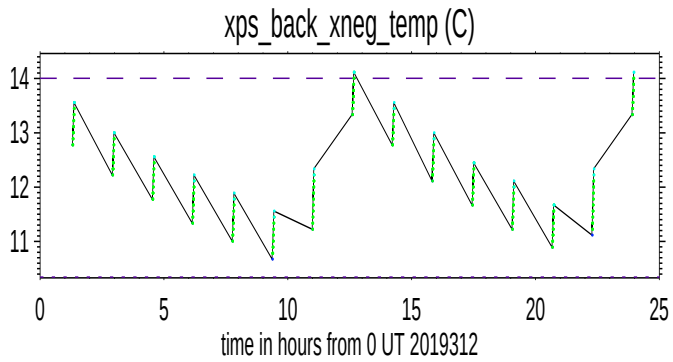
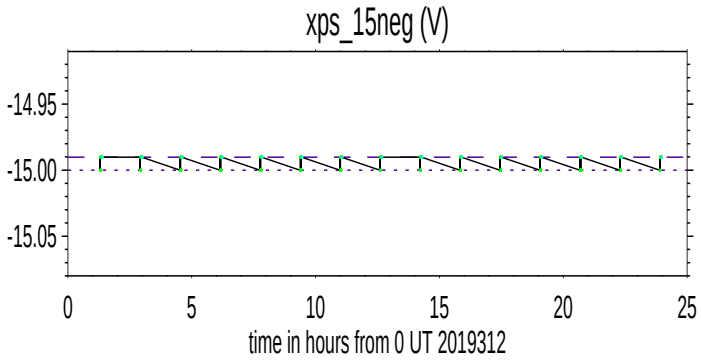
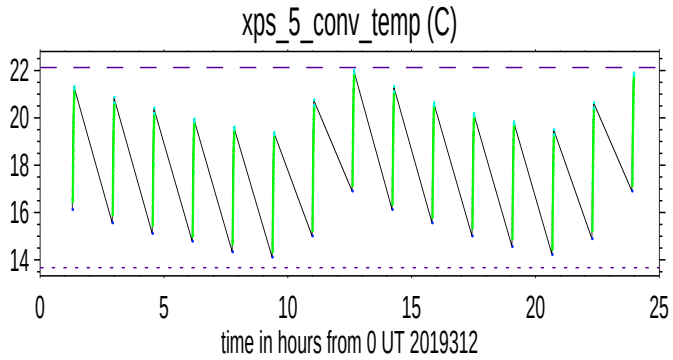
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_back_xneg_temp (C)
14
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_15neg (V)
-14.95
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_5_conv_temp (C)
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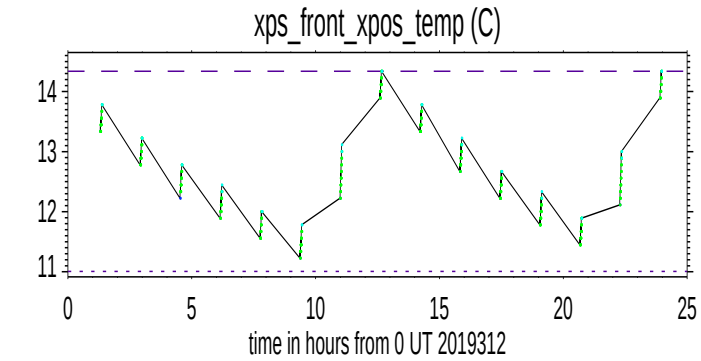
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_front_xpos_temp (C)
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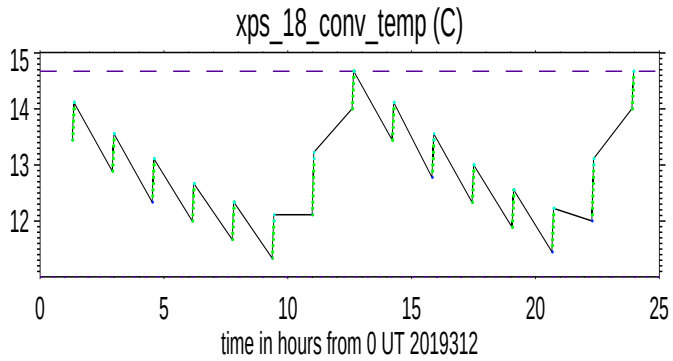
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019312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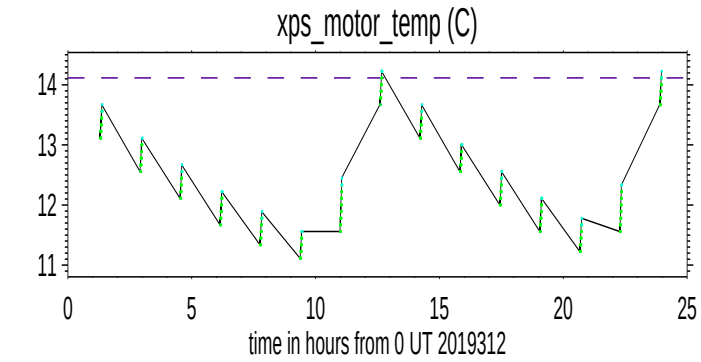
12
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_motor_temp (C)
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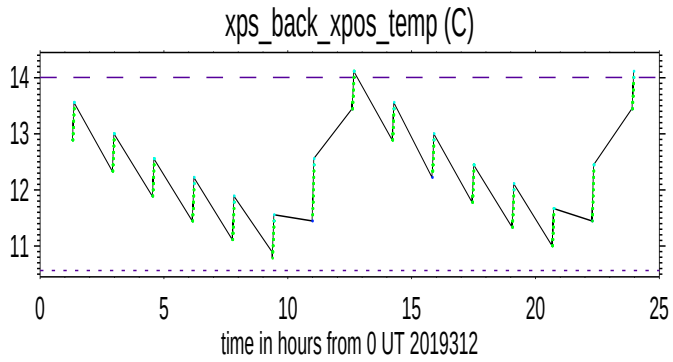
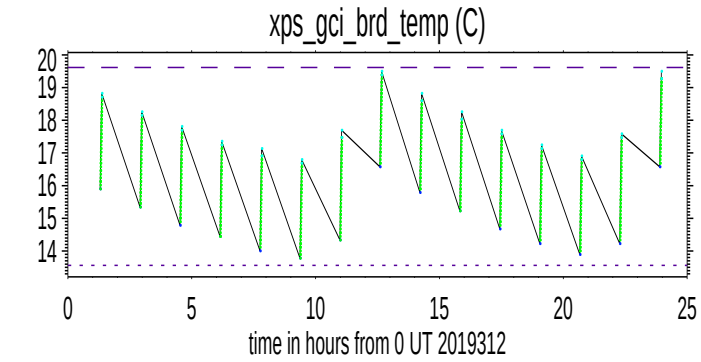
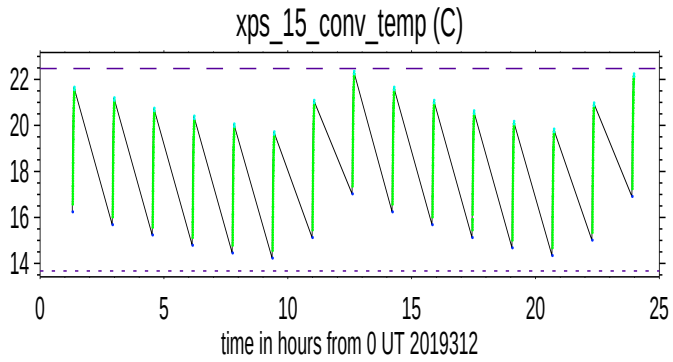
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_back_xpos_temp (C)
14
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019312


xps_gci_brd_temp (C)
20
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019312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10
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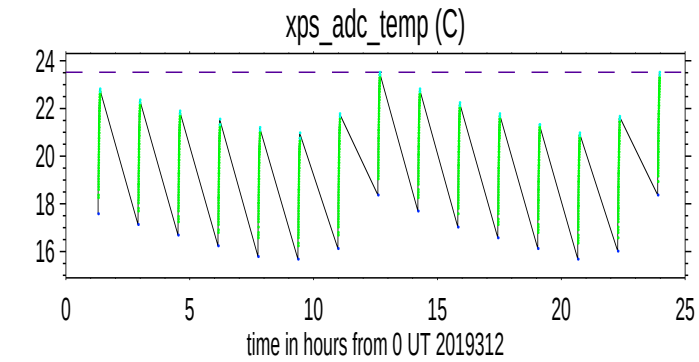
20
25
time in hours from 0 UT 2019312


xps_adc_temp (C)
24
22
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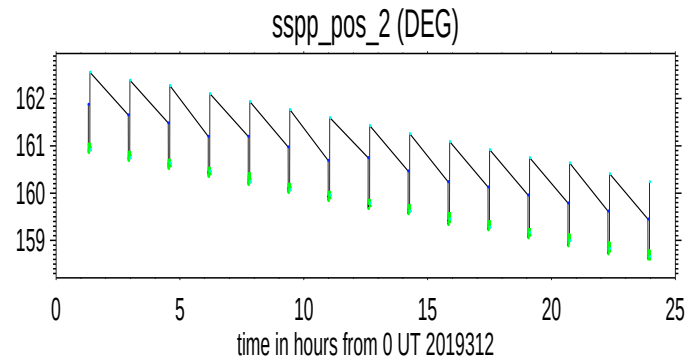
16
0
5
10
15
20
25
time in hours from 0 UT 2019312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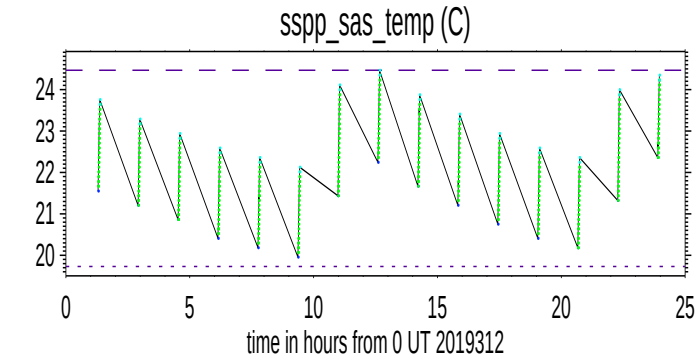
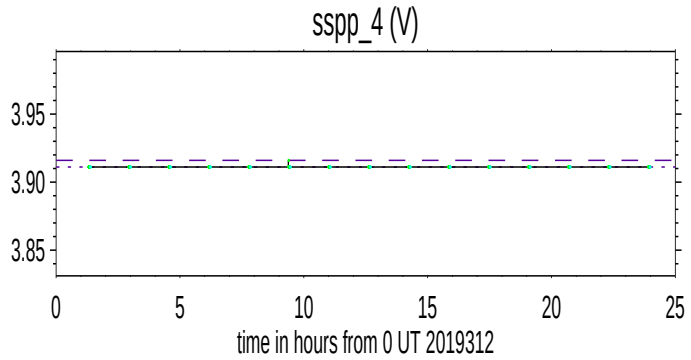
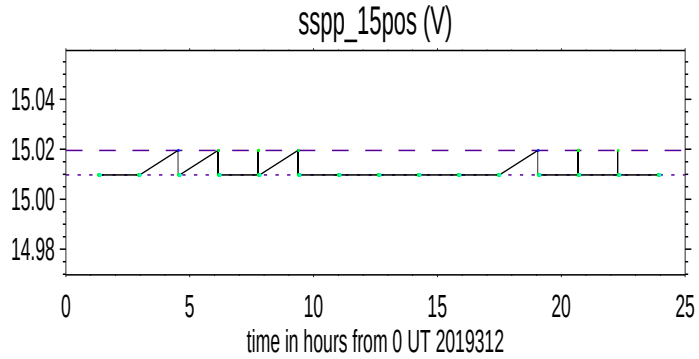
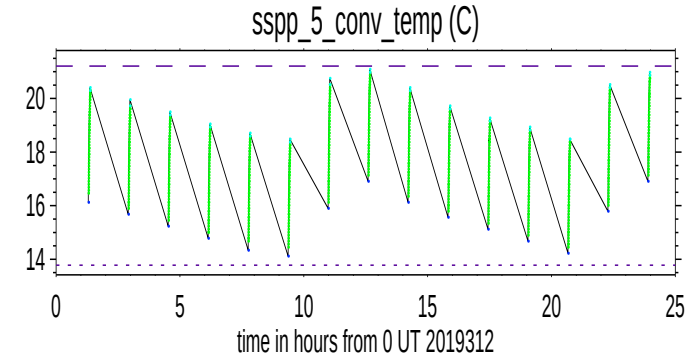
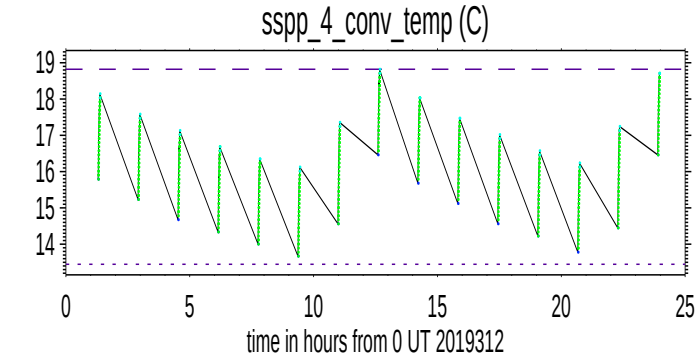
162
161
160
159
0
5
10
15
20
25
time in hours from 0 UT 2019312

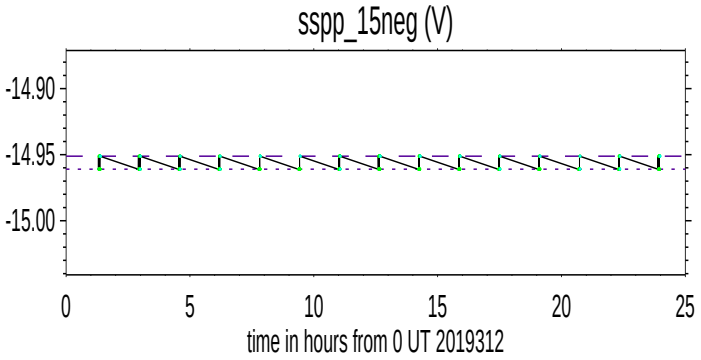

sspp_sas_temp (C)
24
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2019312

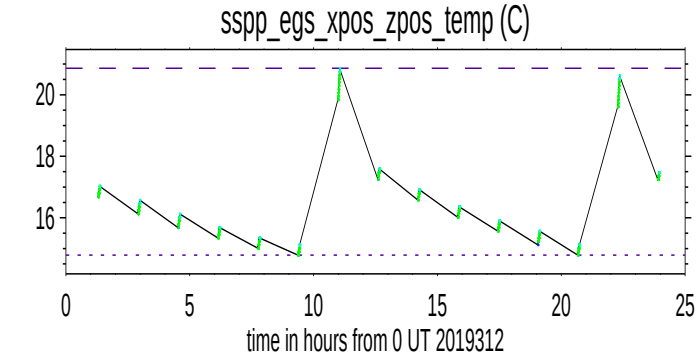

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019312

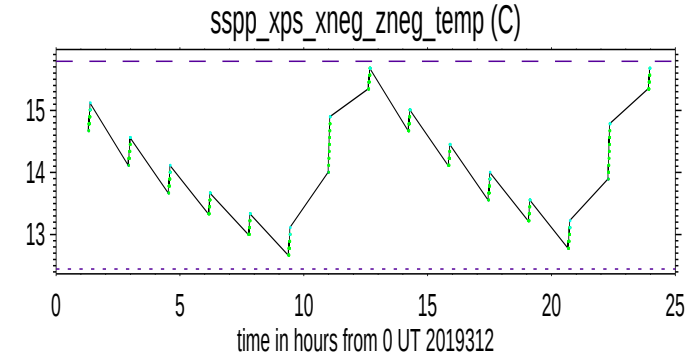

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2019312

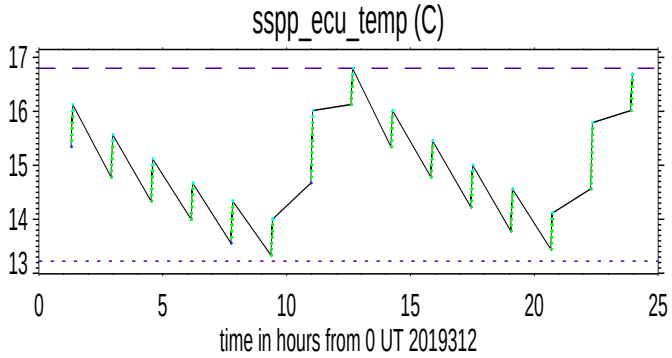

sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

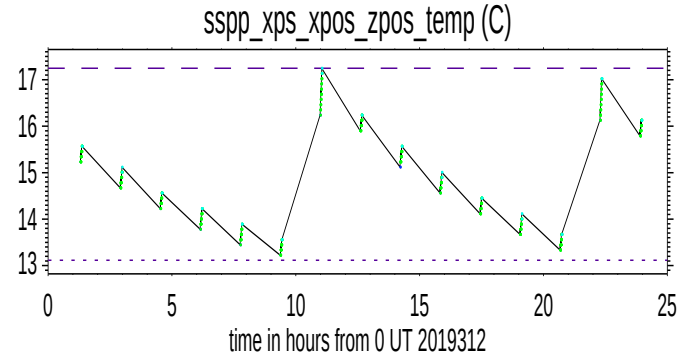

sspp_4_conv_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

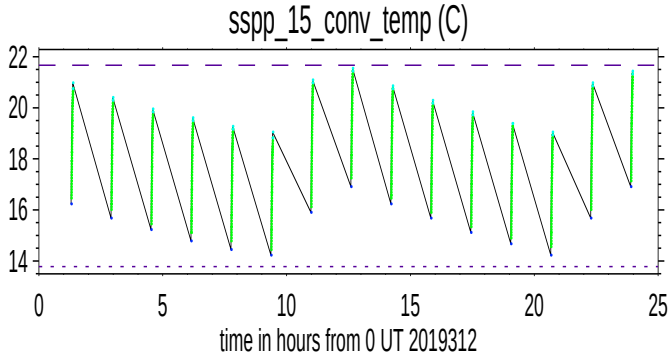

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019312

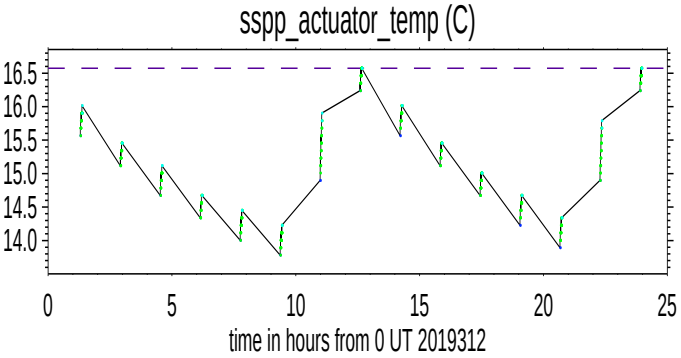

sspp_egs_xpos_zpos_temp (C)
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2019312

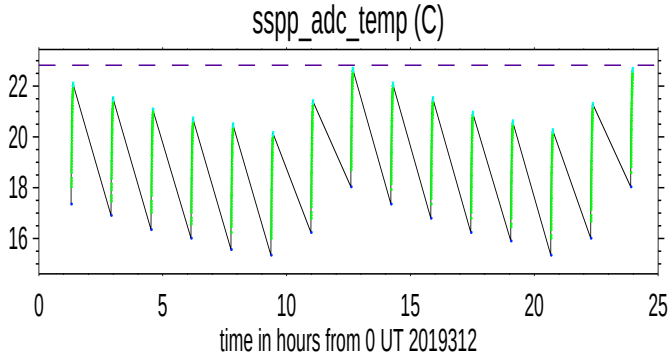

sspp_xps_xneg_zneg_temp (C)
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019312

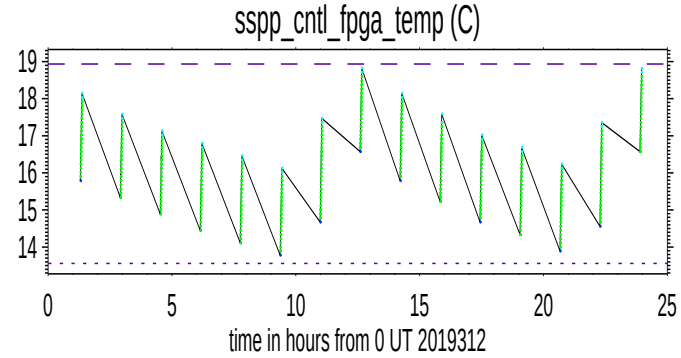

sspp_ecu_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019312

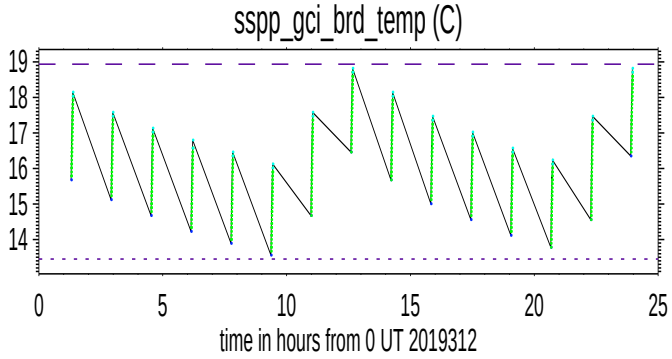

sspp_xps_xpos_zpos_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019312

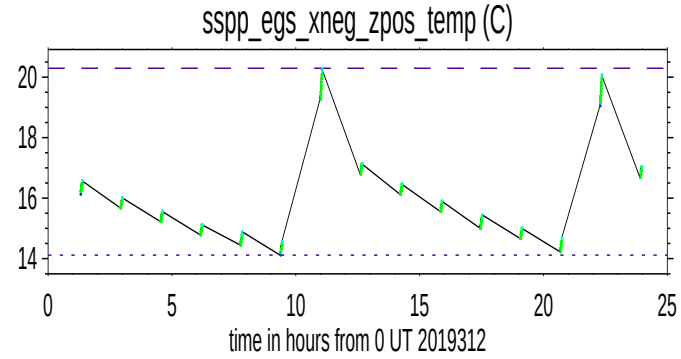

sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

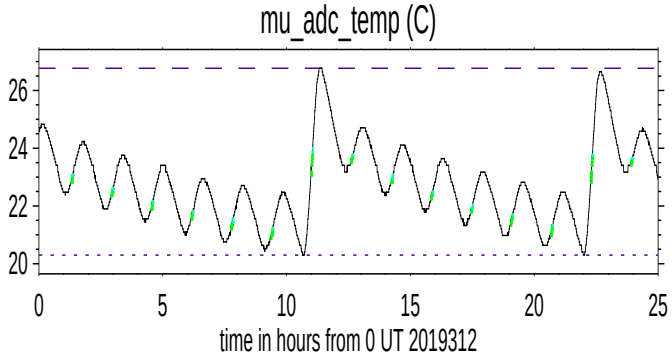

sspp_actuator_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2019312

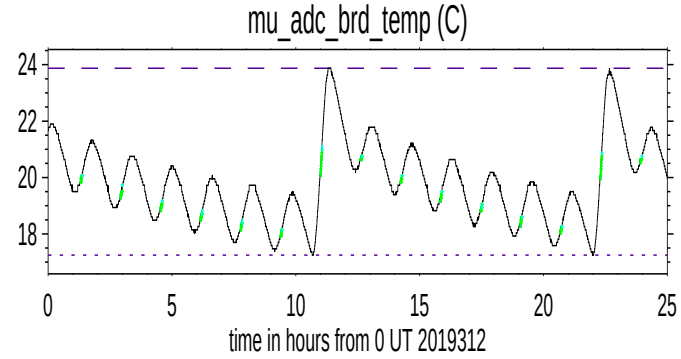

sspp_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2019312

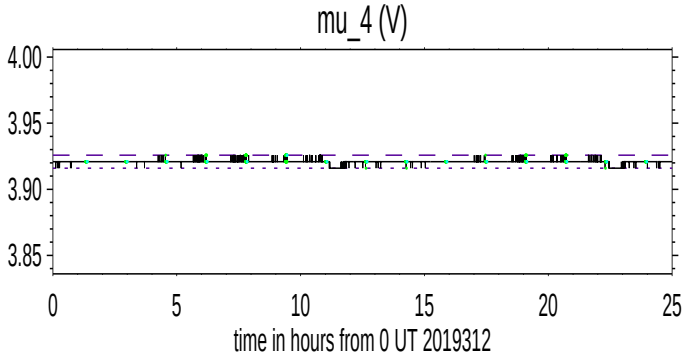

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

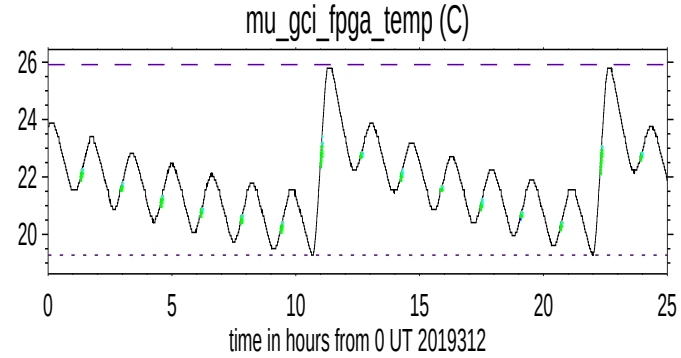

sspp_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

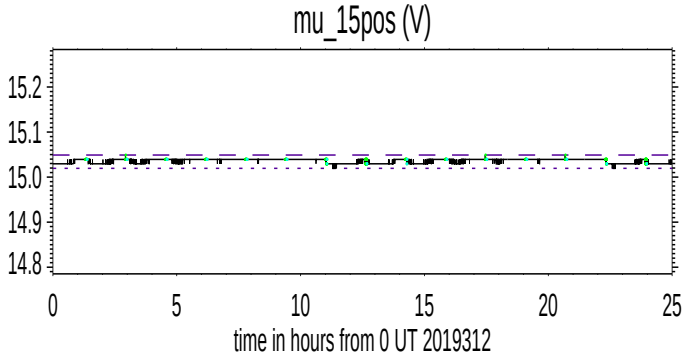

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019312

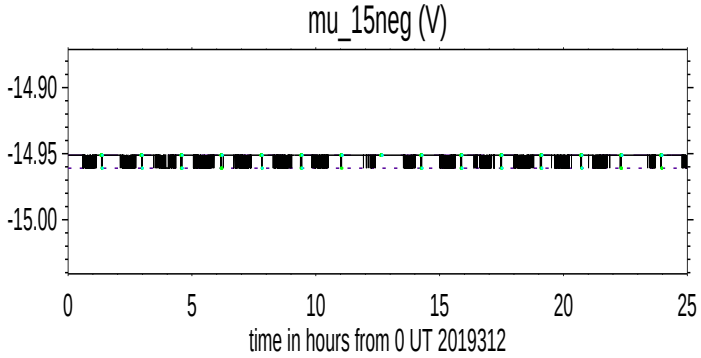

mu_adc_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019312

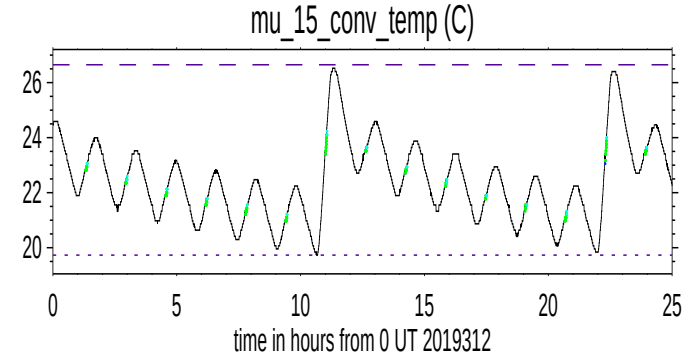

mu_adc_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019312

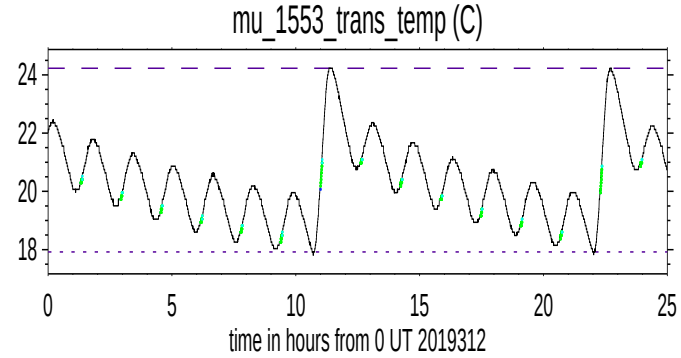

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019312

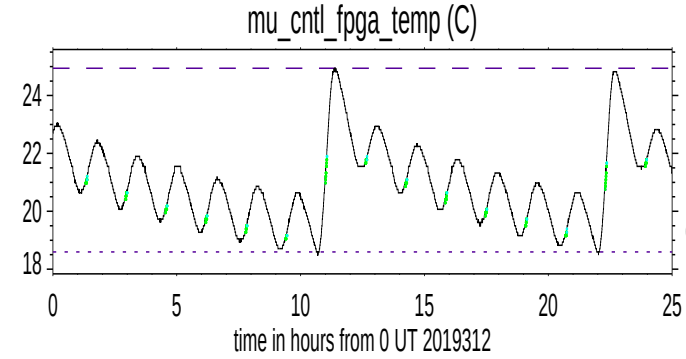

mu_gci_fpga_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019312

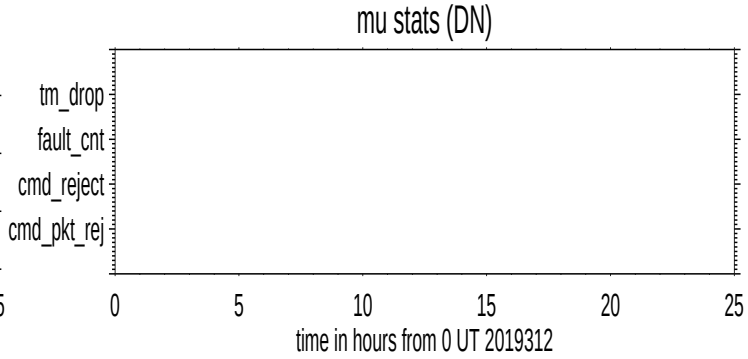

mu_15pos (V)
15.2
15.1
15.0
14.9
14.8
0
5
10
15
20
25
time in hours from 0 UT 2019312

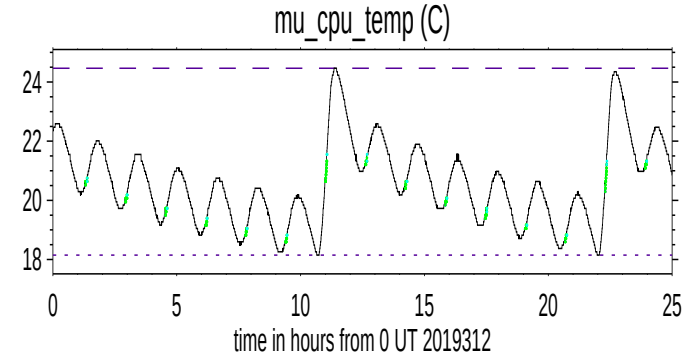

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019312

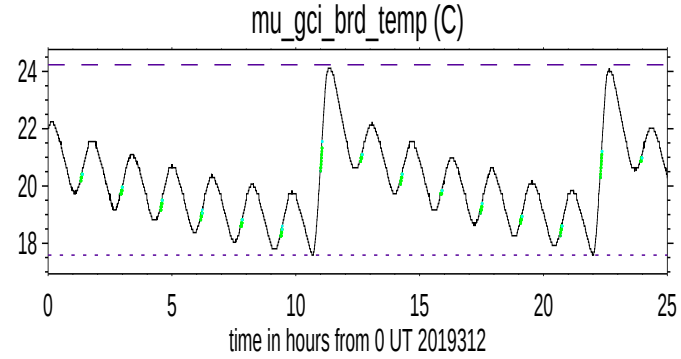

mu_15_conv_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019312

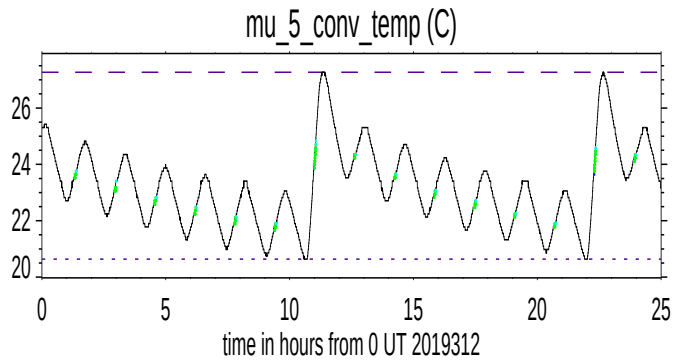

mu_1553_trans_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019312

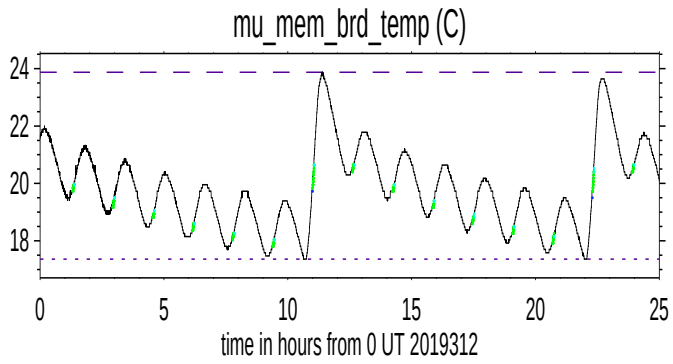

mu_cntl_fpga_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019312

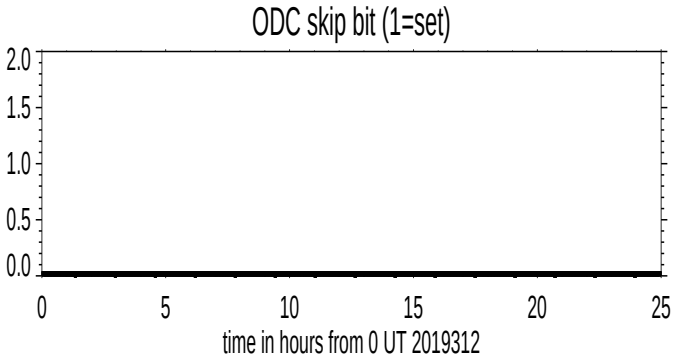

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2019312

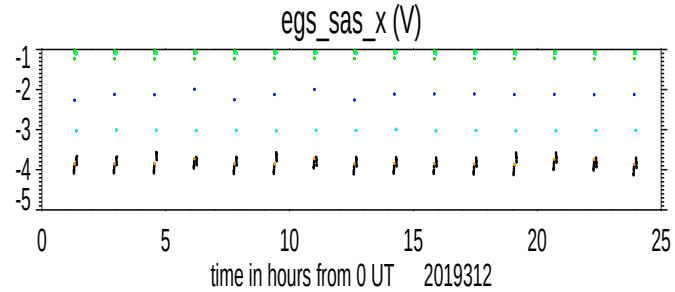

mu_cpu_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019312

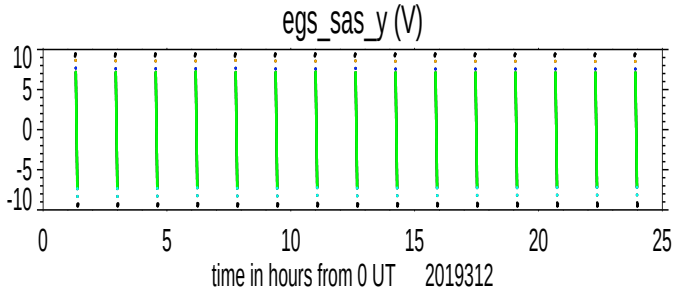

mu_gci_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019312

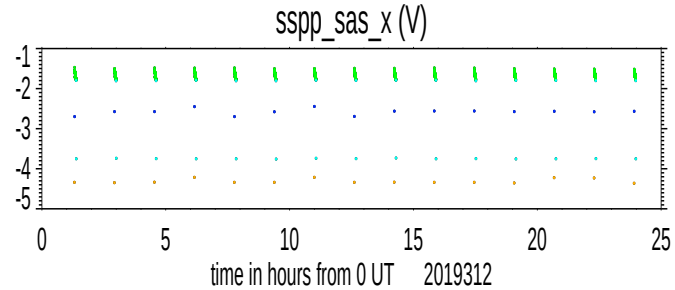

mu_5_conv_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019312

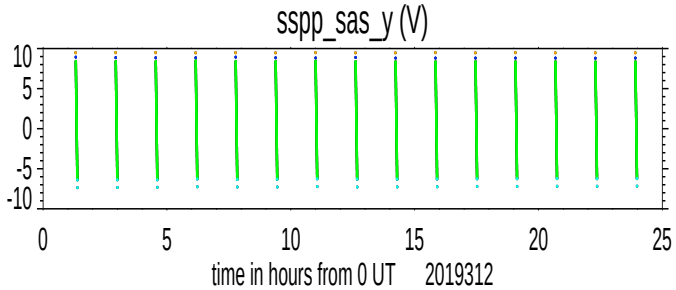

mu_mem_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019312

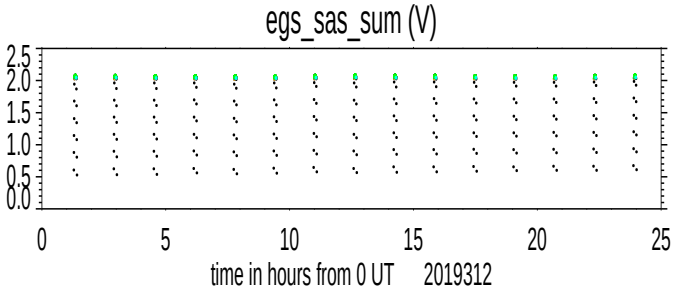

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2019312

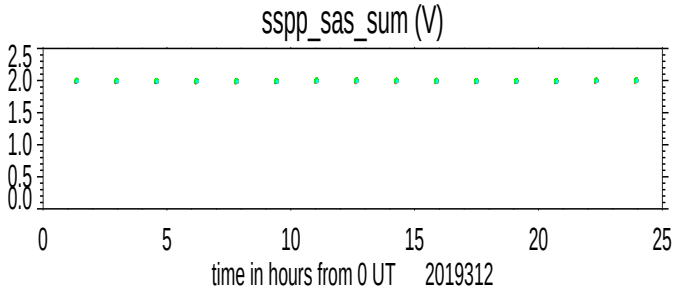

egs_sas_x (V)
time in hours from 0 UT 2019312

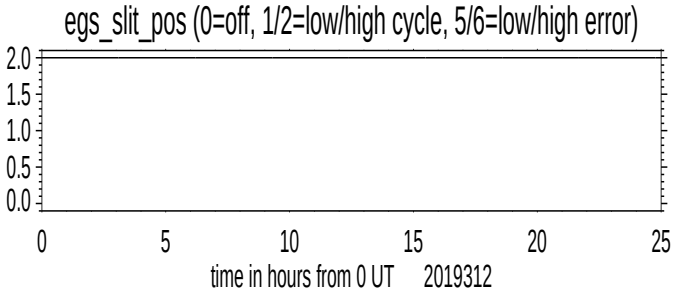

egs_sas_y (V)
time in hours from 0 UT 2019312

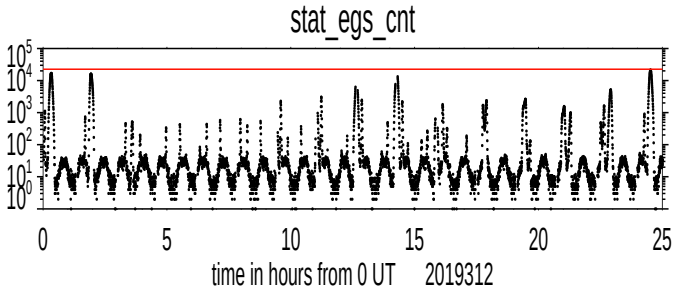

sspp_sas_x (V)
time in hours from 0 UT 2019312

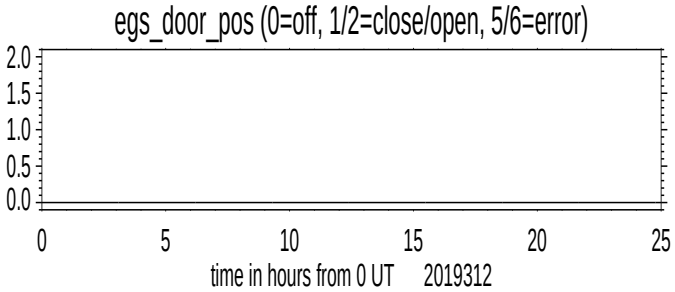

sspp_sas_y (V)
time in hours from 0 UT 2019312

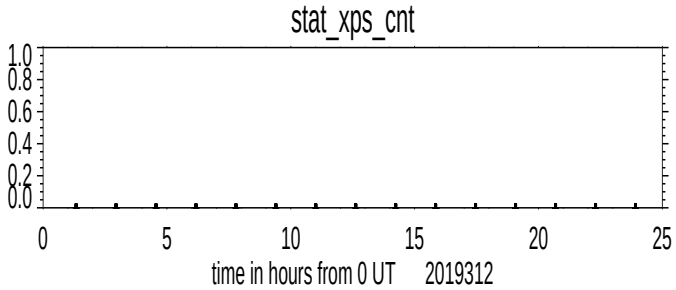

egs_sas_sum (V)
time in hours from 0 UT 2019312

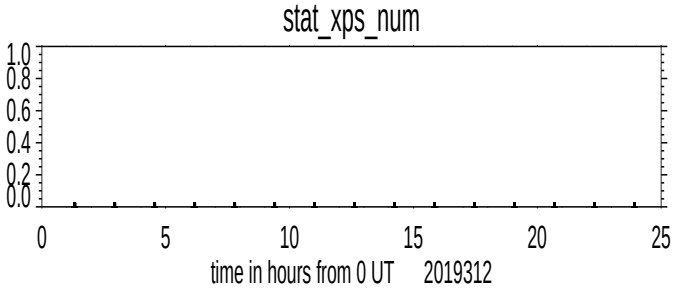

sspp_sas_sum (V)
time in hours from 0 UT 2019312

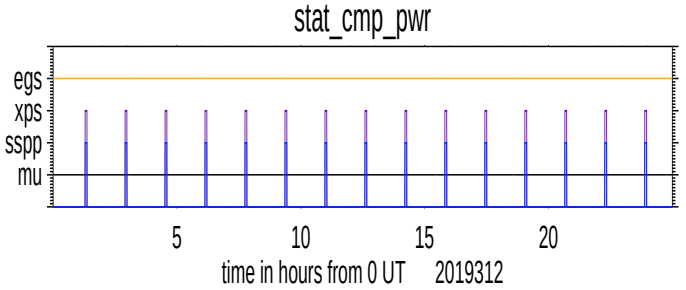

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2019312


stat_egs_cnt
time in hours from 0 UT 2019312

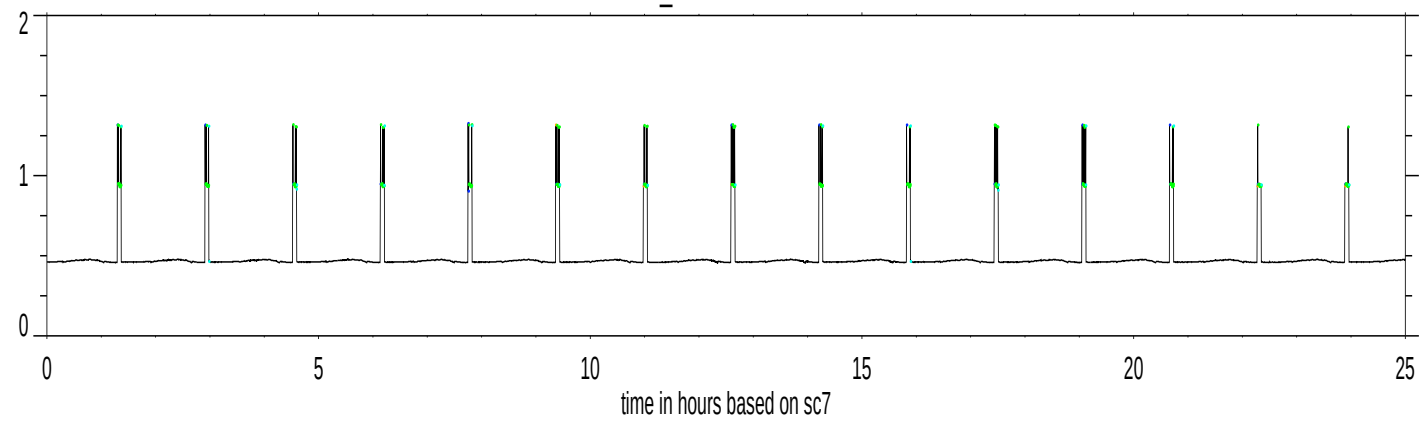

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2019312


stat_xps_cnt
time in hours from 0 UT 2019312

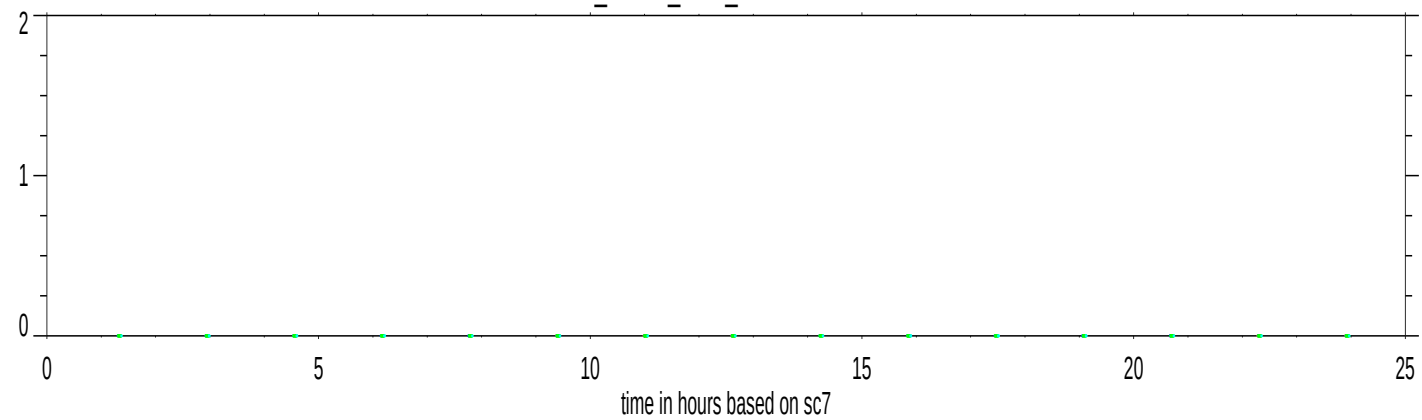

stat_xps_num
time in hours from 0 UT 2019312


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2019312

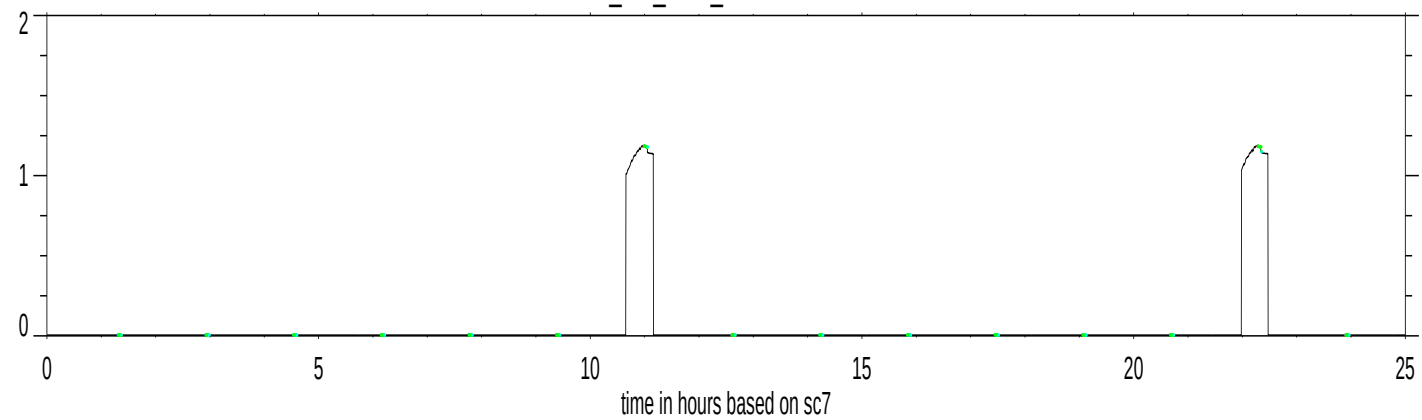
SEE_CUR 2019312



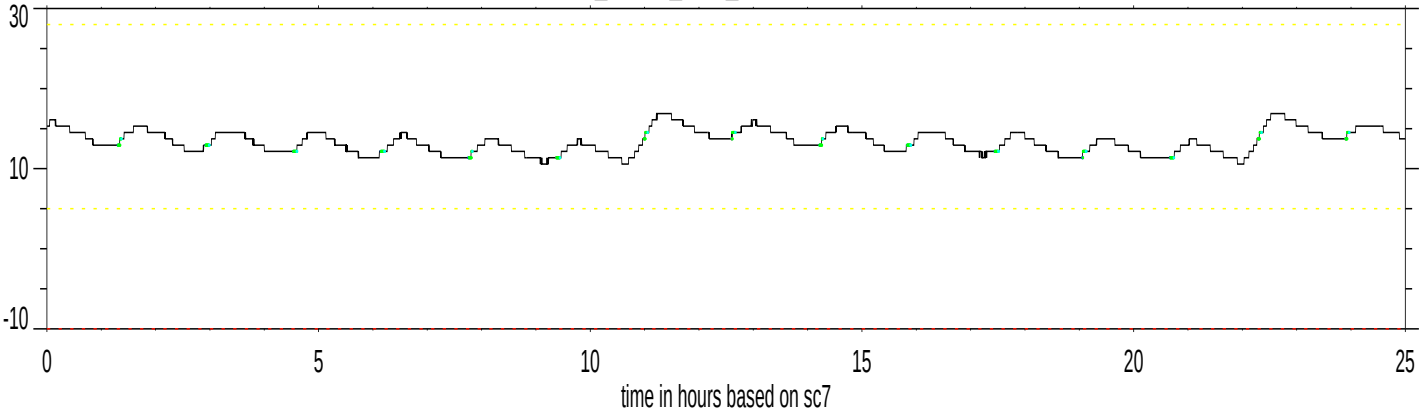
SEE_SURV_HTR_CUR 2019312



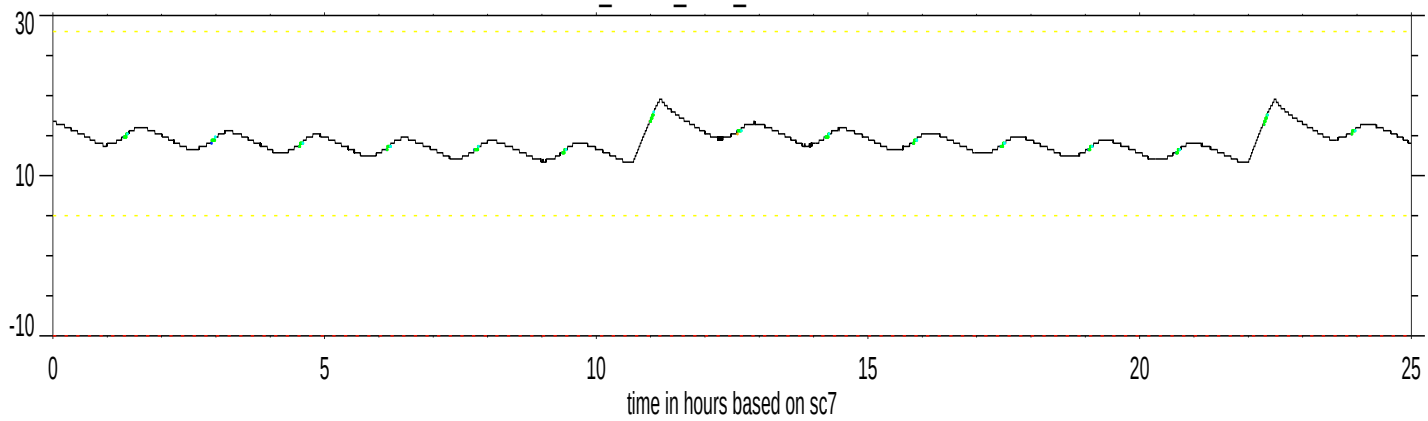
SEE_OP_HTR_CUR 2019312



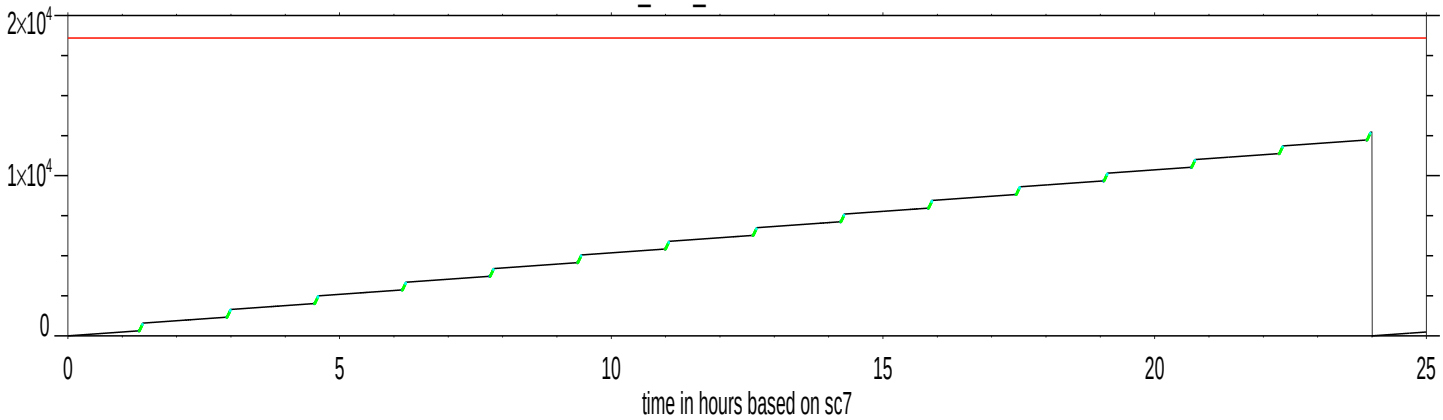
SSPP_BHND_XPS_TEMP 2019312



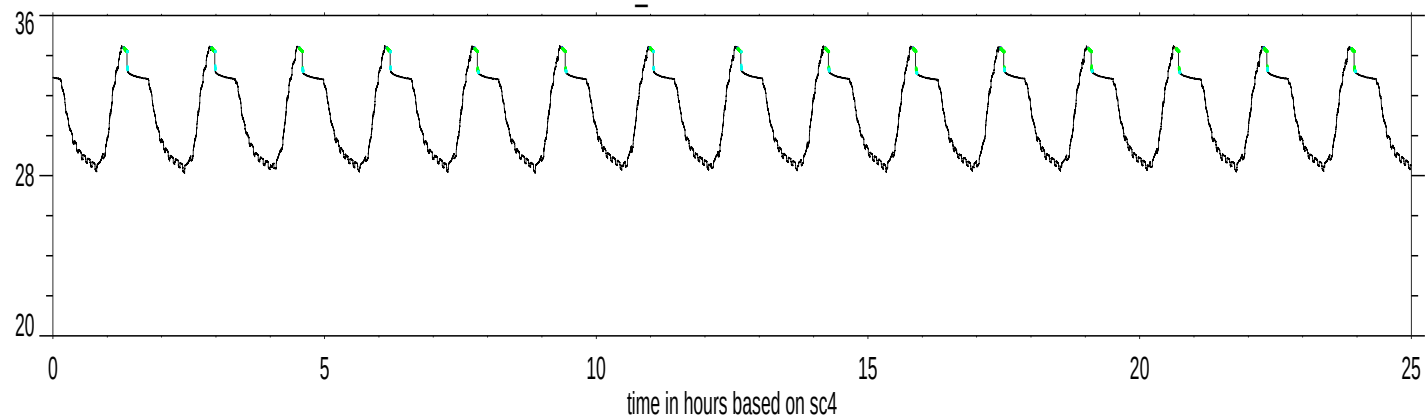
SSPP_BHND_MTR_TEMP 2019312



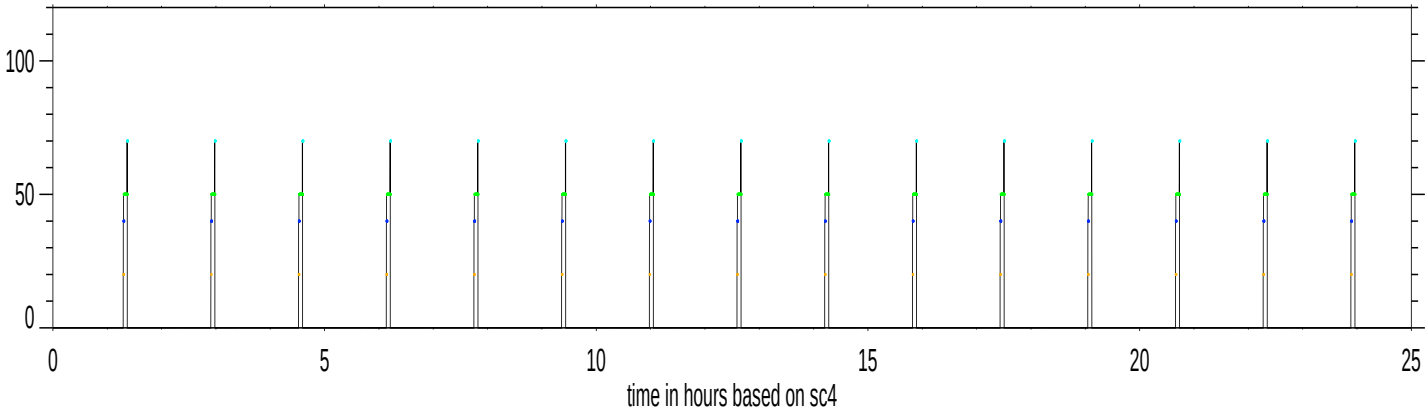
SEE_PKT_COUNT 2019312

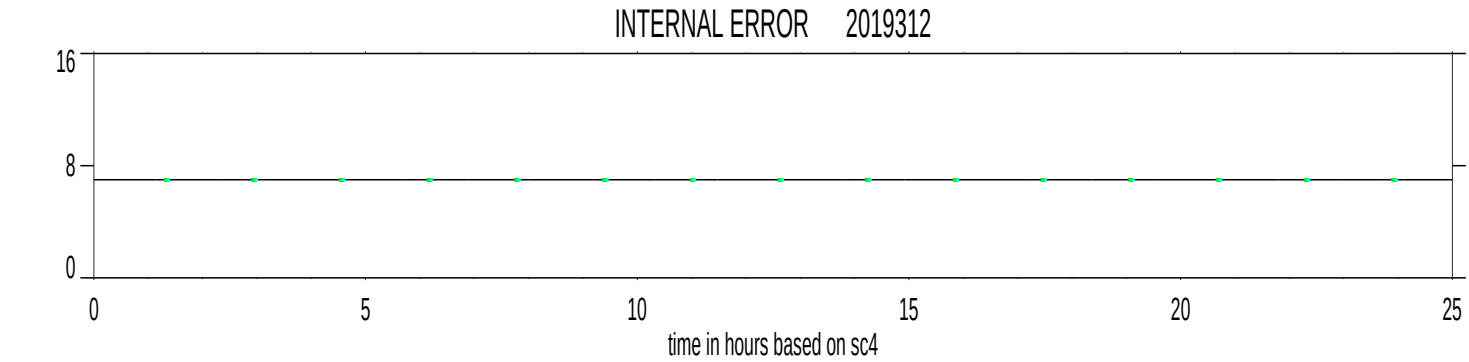


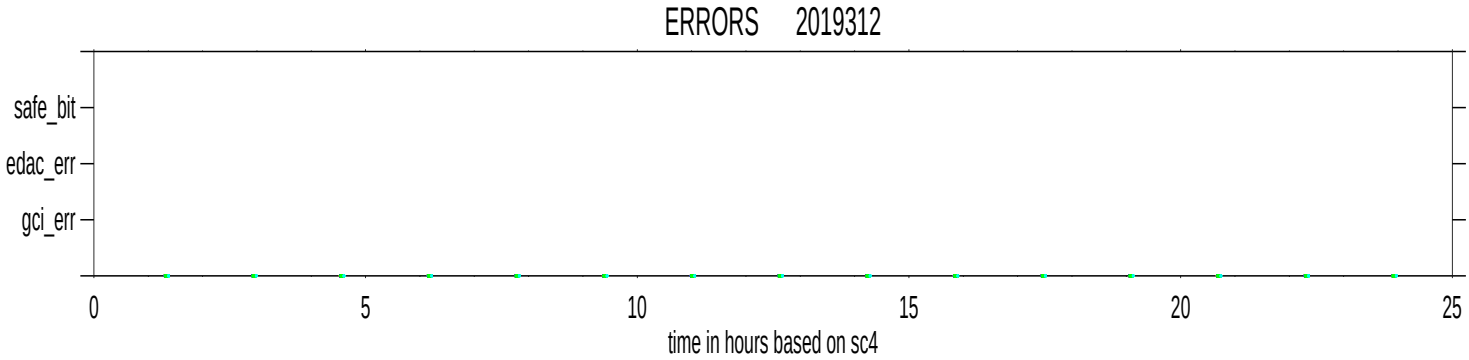
BUS_VOLTAGE 2019312

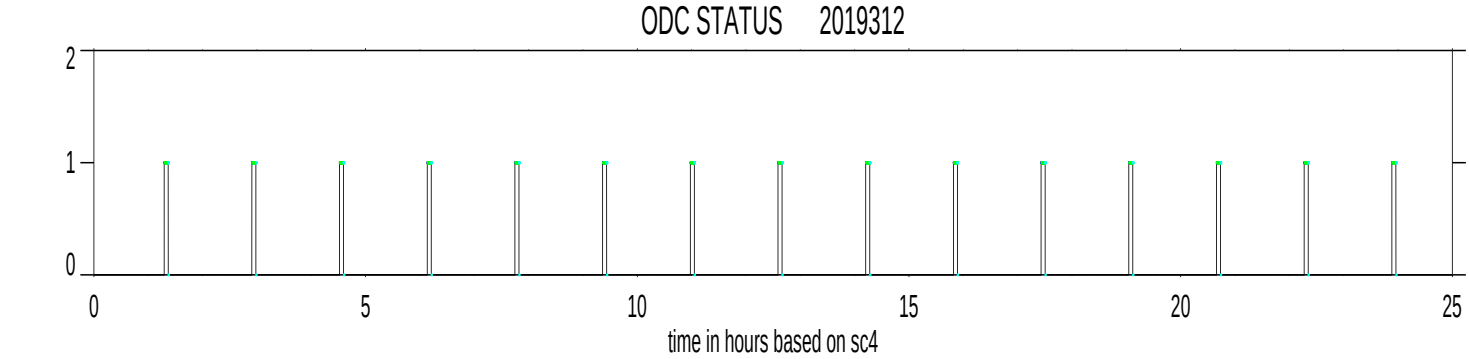


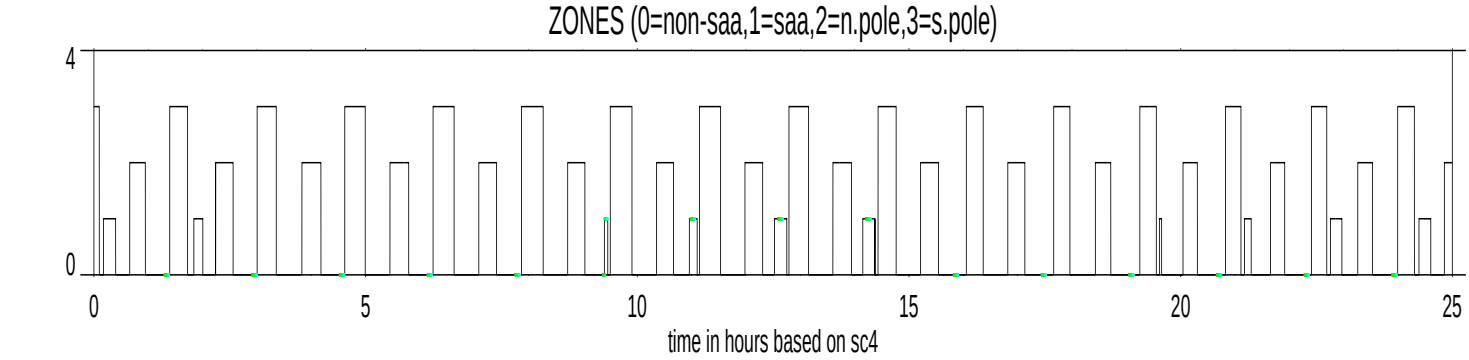
SEE_MU Operational Mode 2019312

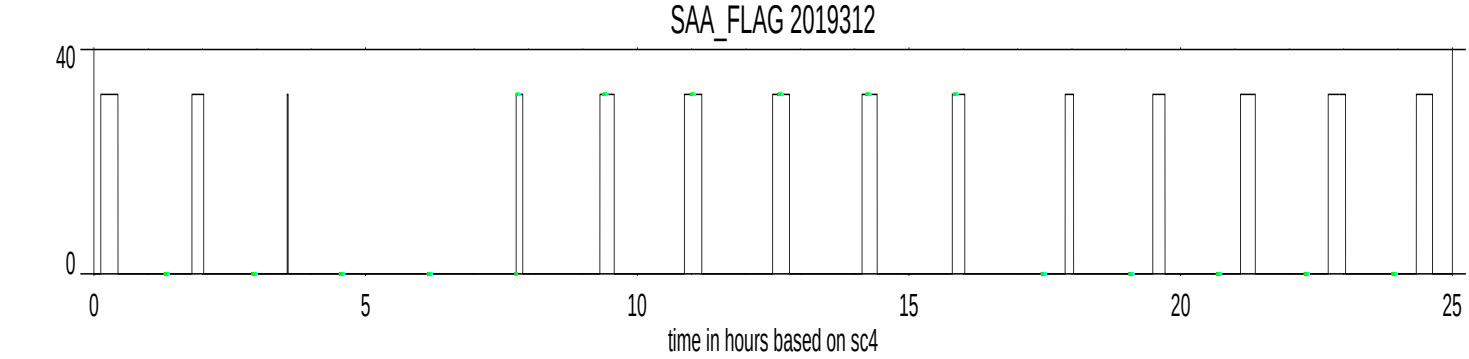


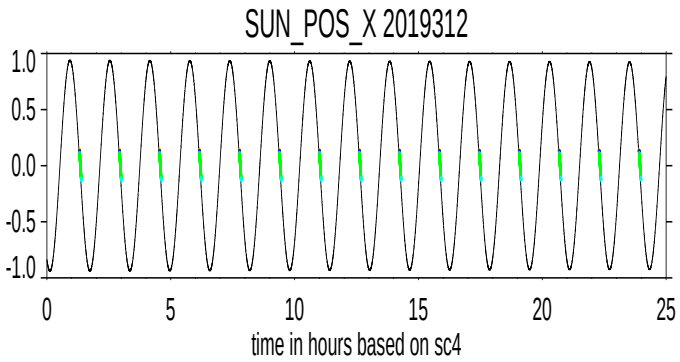

INTERNAL ERROR 2019312
16
8
0
0
5
10
15
20
25
time in hours based on sc4

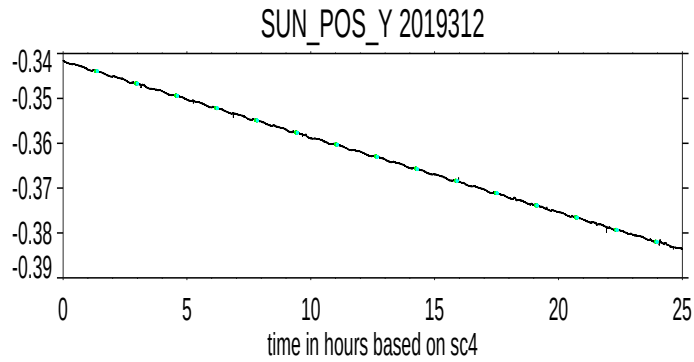

ERRORS 2019312
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

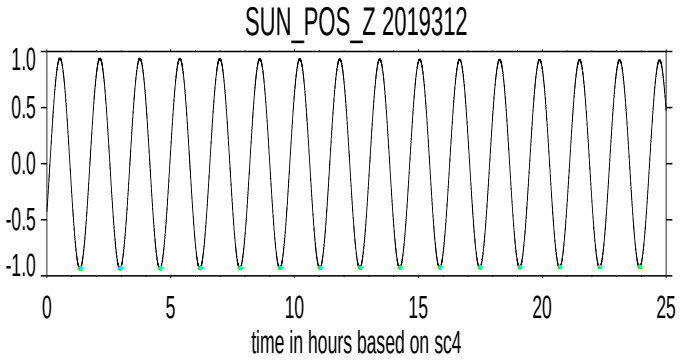

ODC STATUS 2019312
2
1
0
0
5
10
15
20
25
time in hours based on sc4

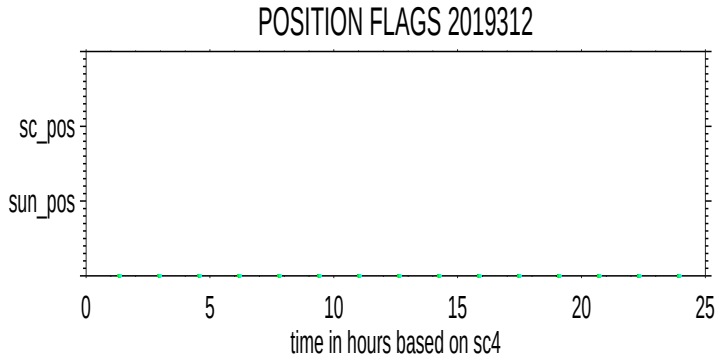

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

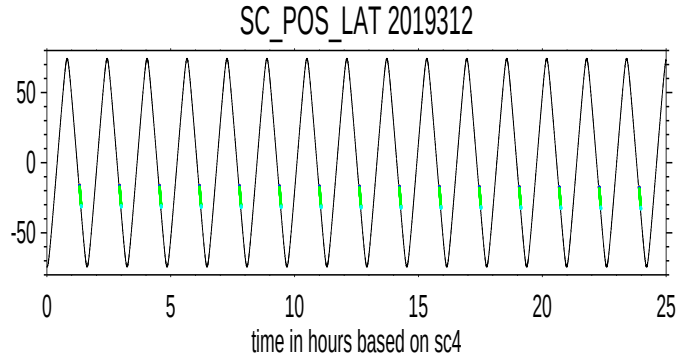

SAA_FLAG 2019312
40
0
0
5
10
15
20
25
time in hours based on sc4

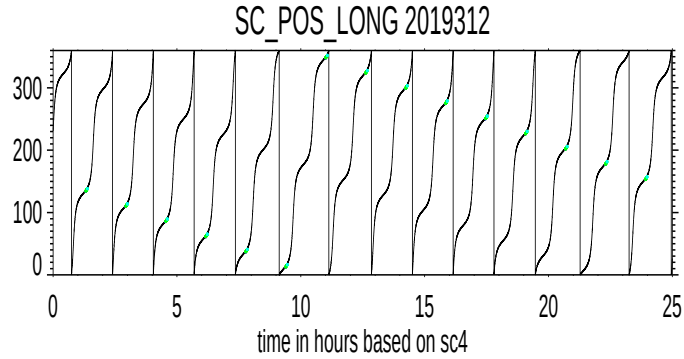

SUN_POS_X 2019312
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

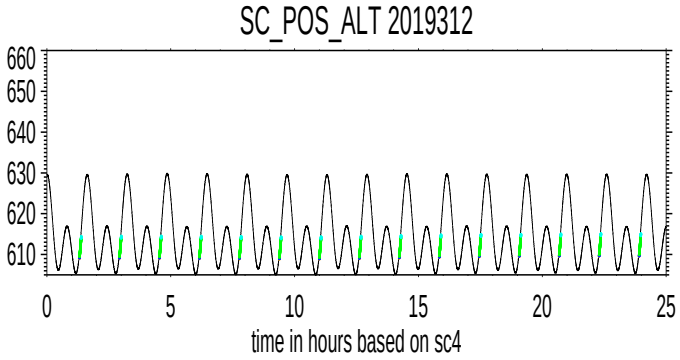

SUN_POS_Y 2019312
-0.34
-0.35
-0.36
-0.37
-0.38
-0.39
0
5
10
15
20
25
time in hours based on sc4

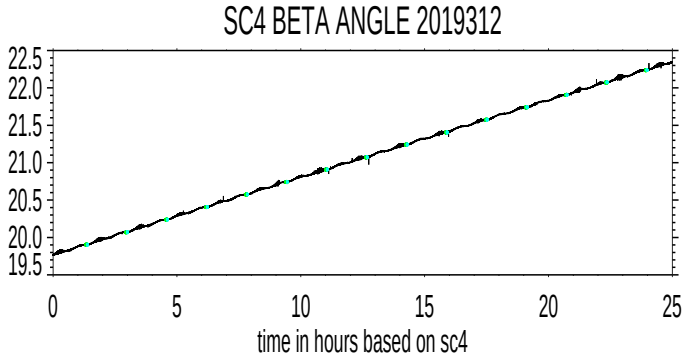

SUN_POS_Z 2019312
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2019312
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2019312
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2019312
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2019312
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2019312
22.5
22.0
21.5
21.0
20.5
20.0
19.5
0
5
10
15
20
25
time in hours based on sc4