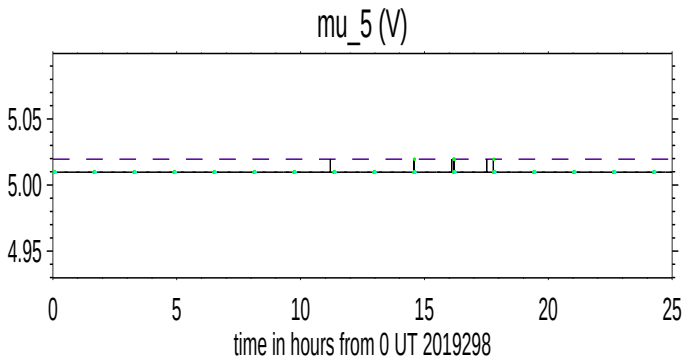
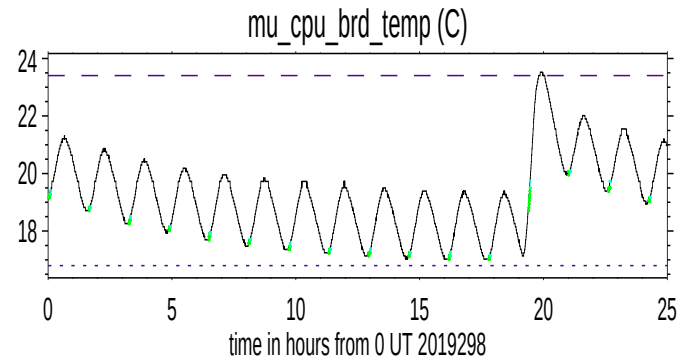
```
Information for      2019298
07:25:03.376: hk: 2 cmd pkt accepted   cmd = ODCs Loaded
17:31:58.877: hk: 3 cmd pkt accepted   cmd = ODCs Loaded
17:32:13.877: hk: 9 cmd pkt accepted   cmd = ODCs Loaded
17:32:28.877: hk: 4 cmd pkt accepted   cmd = ODCs Loaded
```


mu_5 (V)
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2019298


mu_cpu_brd_temp (C)
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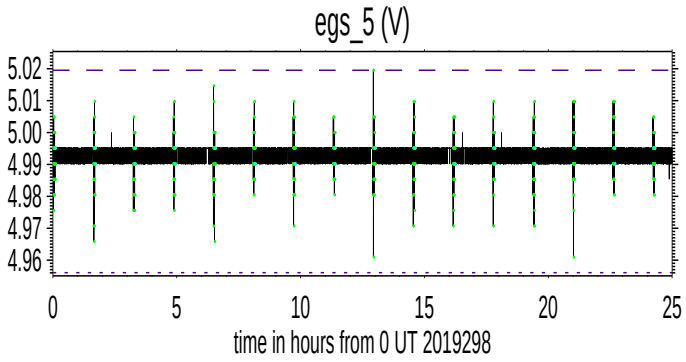
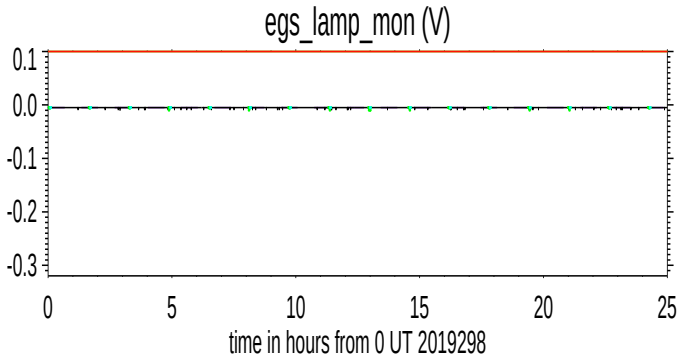
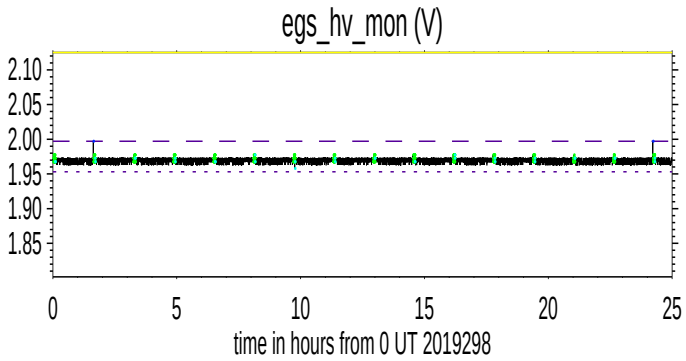
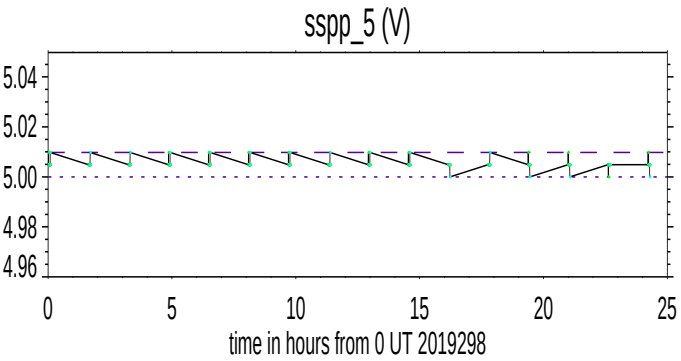
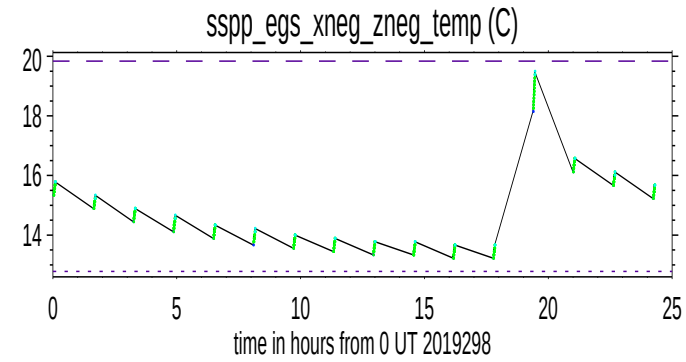
15
20
25
time in hours from 0 UT 2019298


egs_5 (V)
5.02
5.01
5.00
4.99
4.98
4.97
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019298


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 2019298


egs_hv_mon (V)
2.10
2.05
2.00
1.95
1.90
1.85
0
5
10
15
20
25
time in hours from 0 UT 2019298


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 2019298


sspp_egs_xneg_zneg_temp (C)
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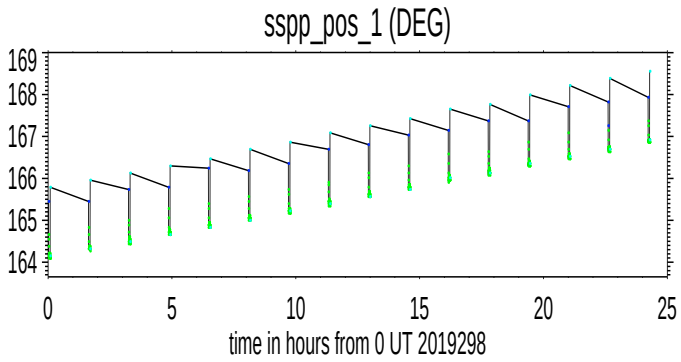
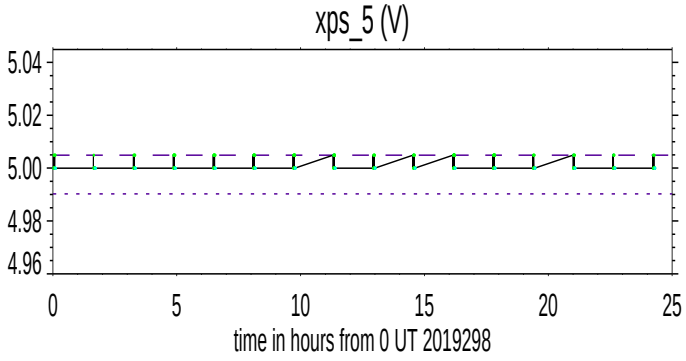
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298


sspp_pos_1 (DEG)
169
168
167
166
165
164
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_5 (V)
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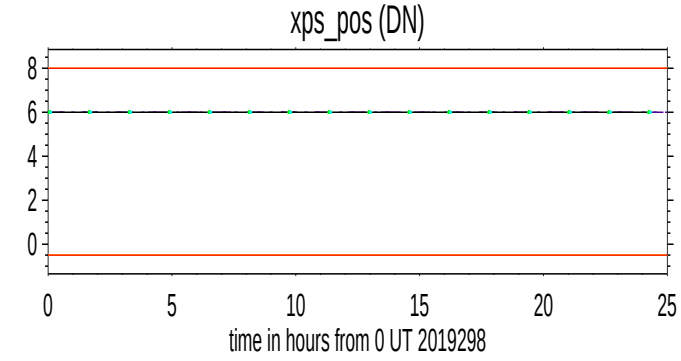
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_pos (DN)
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6
4
2
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10
15
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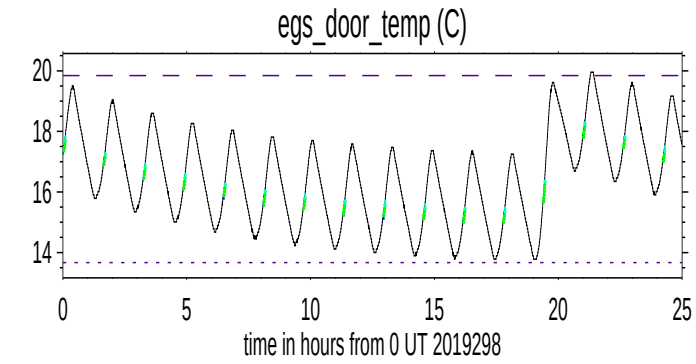
25
time in hours from 0 UT 2019298


egs_door_temp (C)
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18
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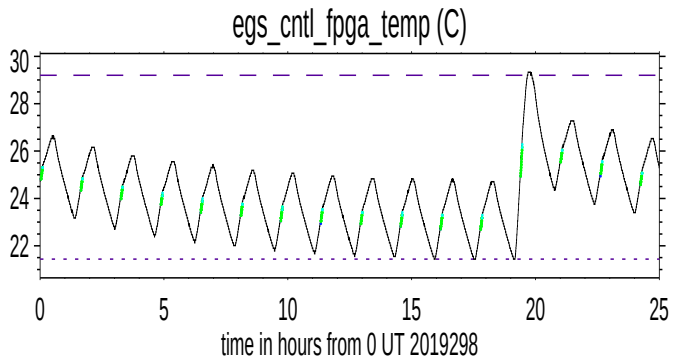
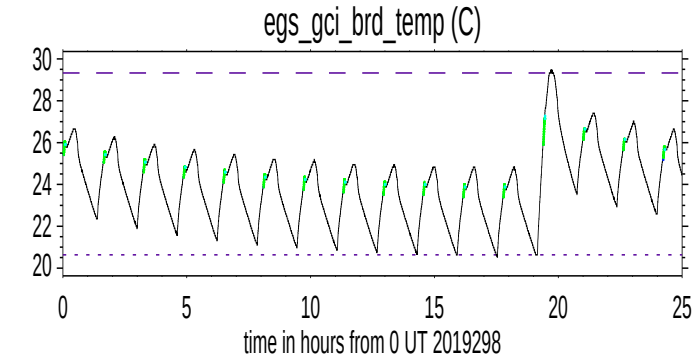
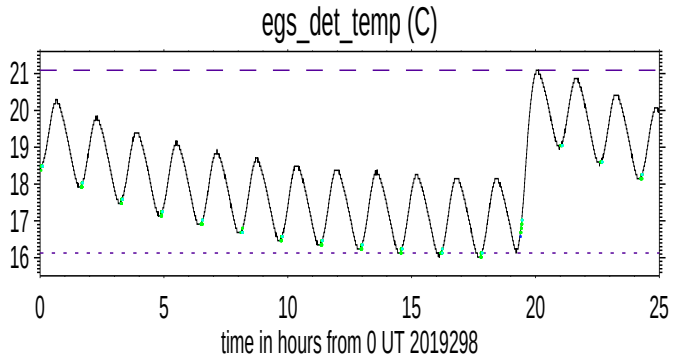
10
15
20
25
time in hours from 0 UT 2019298


egs_cntl_fpga_temp (C)
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019298


egs_gci_brd_temp (C)
30
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019298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17
16
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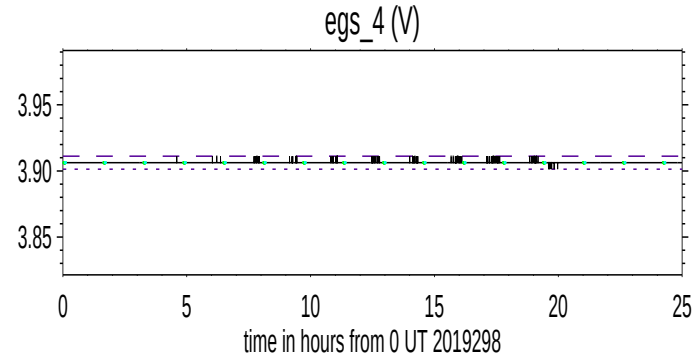
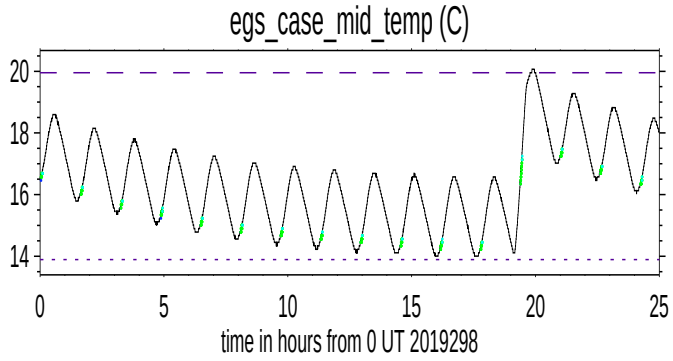
10
15
20
25
time in hours from 0 UT 2019298


egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019298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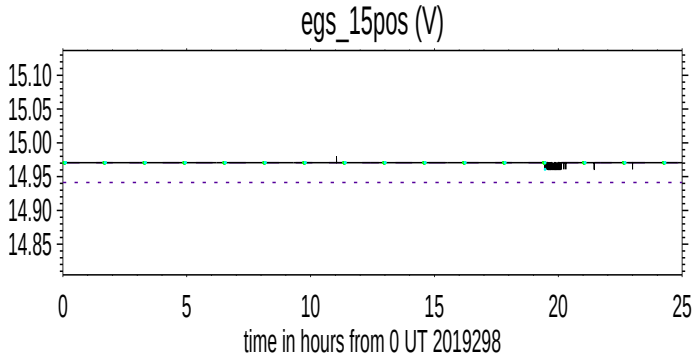
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298


egs_15pos (V)
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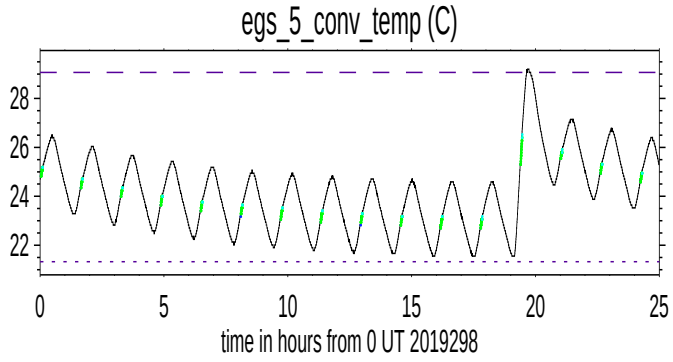
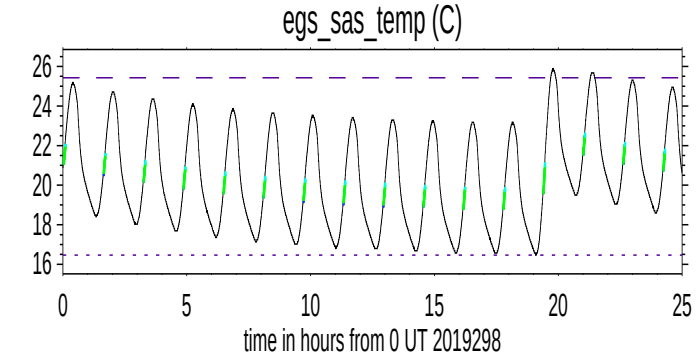
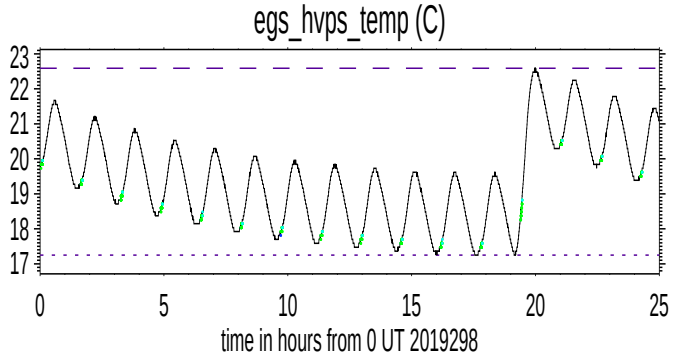
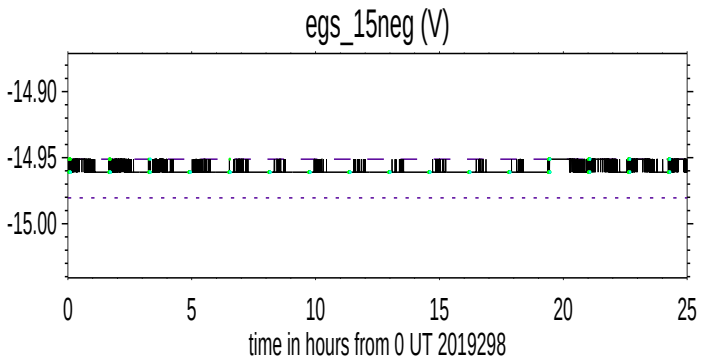
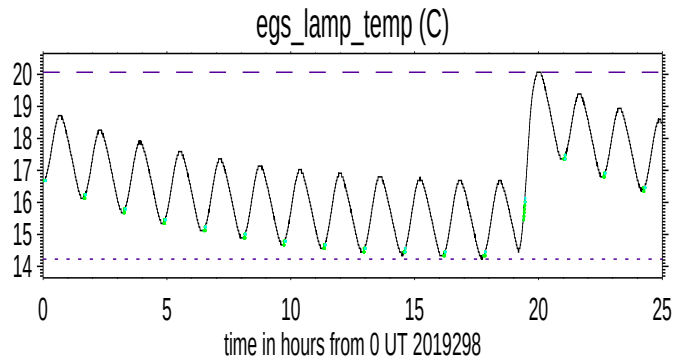
15.05
15.00
14.95
14.90
14.85
0
5
10
15
20
25
time in hours from 0 UT 2019298


egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019298


egs_sas_temp (C)
26
24
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2019298


egs_hvps_temp (C)
23
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2019298


egs_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2019298


egs_lamp_temp (C)
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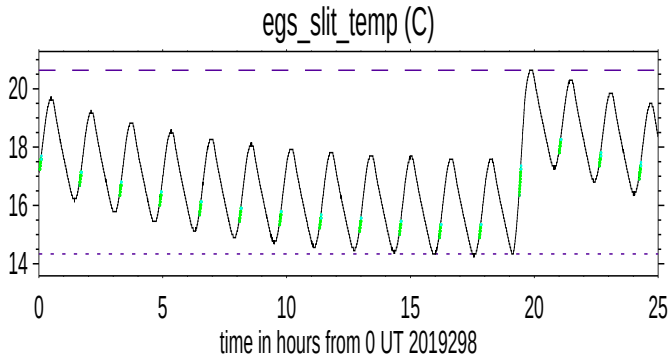
0 5 10 15 20 25
time in hours from 0 UT 2019298


egs_slit_temp (C)
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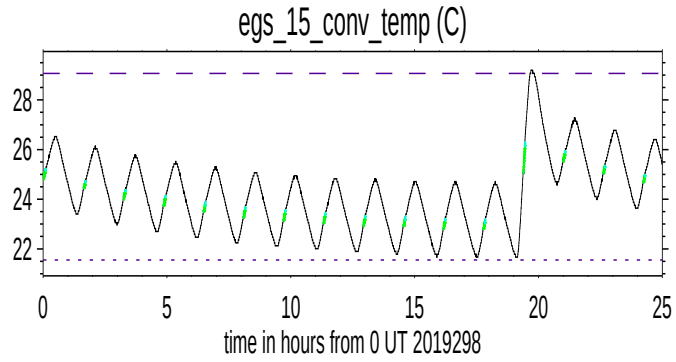
0 5 10 15 20 25
time in hours from 0 UT 2019298


egs_15_conv_temp (C)
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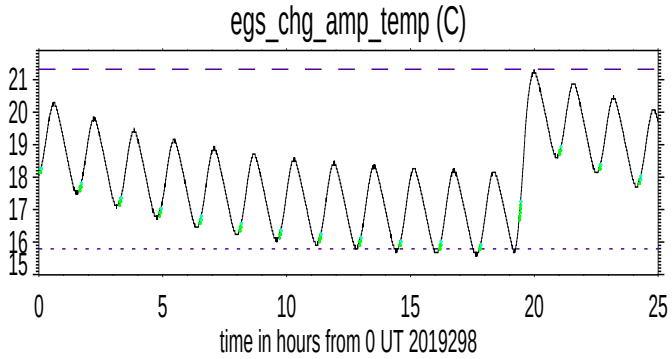
time in hours from 0 UT 2019298


egs_chg_amp_temp (C)
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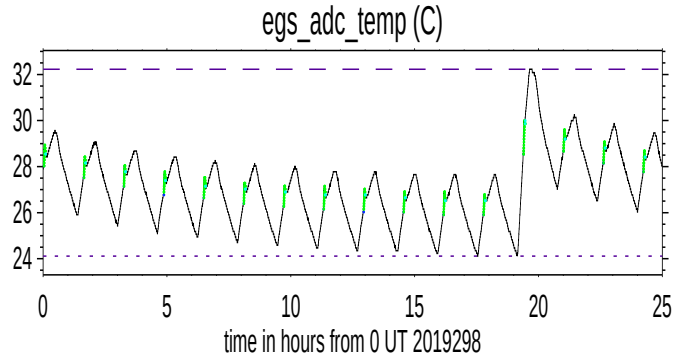
0 5 10 15 20 25
time in hours from 0 UT 2019298


egs_adc_temp (C)
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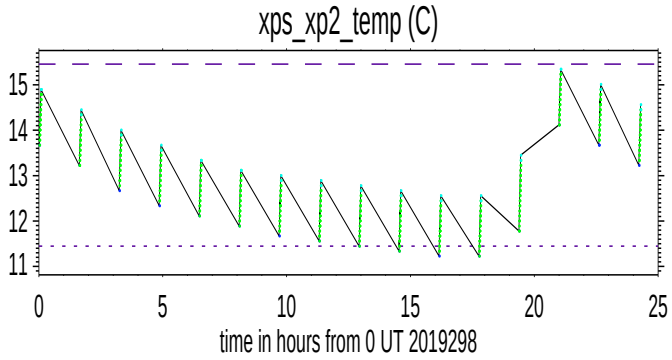
time in hours from 0 UT 2019298


xps_xp2_temp (C)
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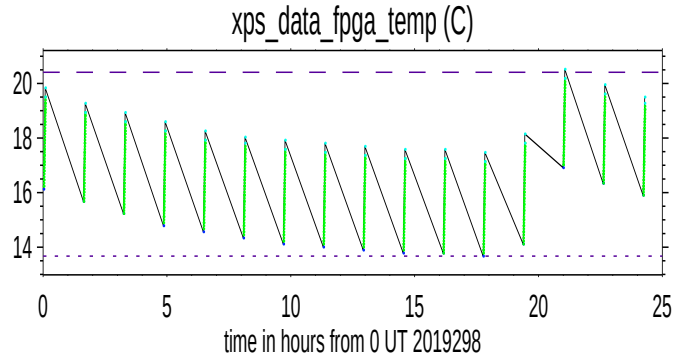
0 5 10 15 20 25
time in hours from 0 UT 2019298


xps_data_fpga_temp (C)
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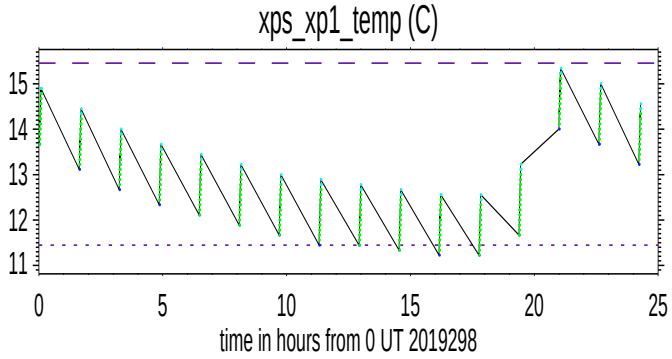
0 5 10 15 20 25
time in hours from 0 UT 2019298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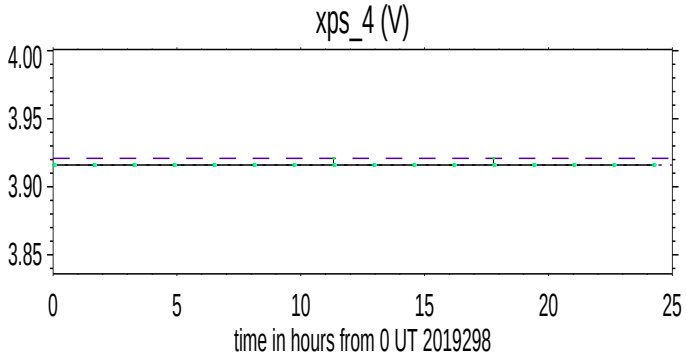
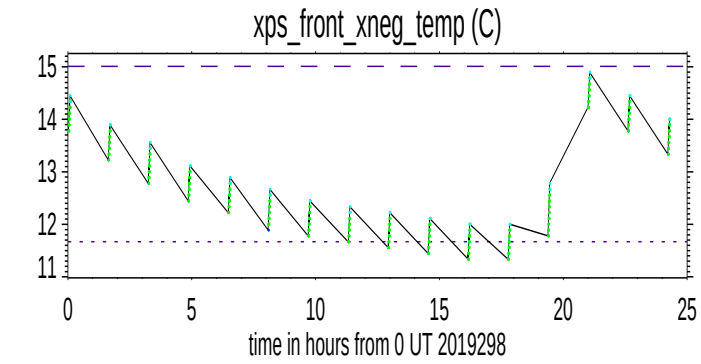
0 5 10 15 20 25
time in hours from 0 UT 2019298


xps_4 (V)
4.00
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2019298


xps_front_xneg_temp (C)
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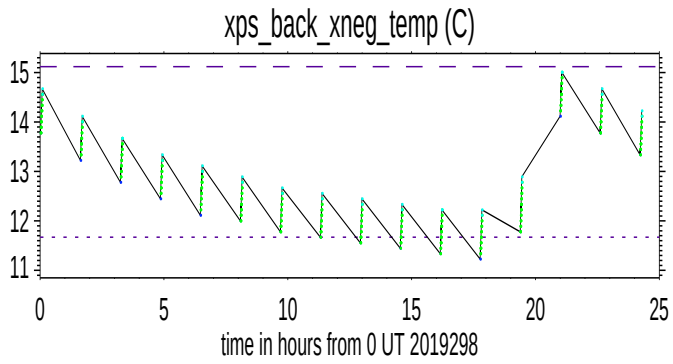
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_back_xneg_temp (C)
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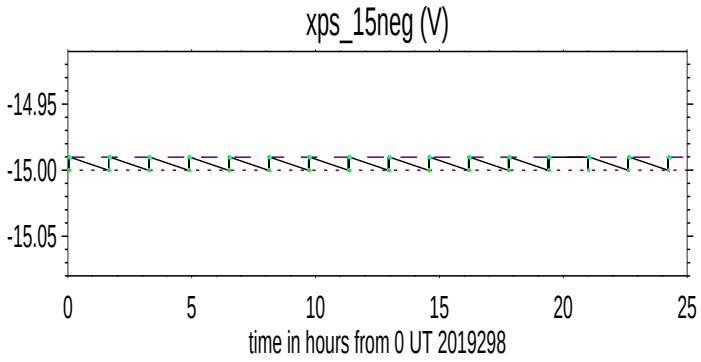
14
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_15neg (V)
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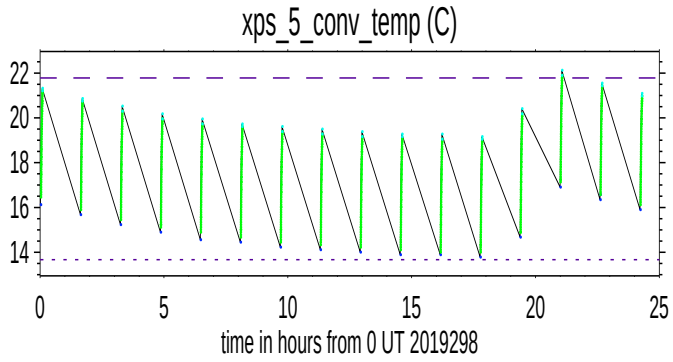
-15.00
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_5_conv_temp (C)
22
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18
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14
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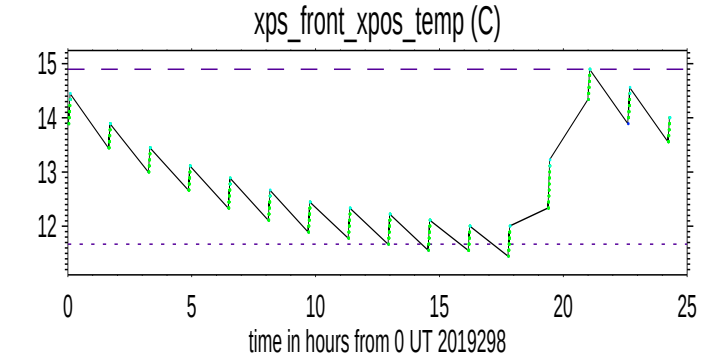
5
10
15
20
25
time in hours from 0 UT 2019298


xps_front_xpos_temp (C)
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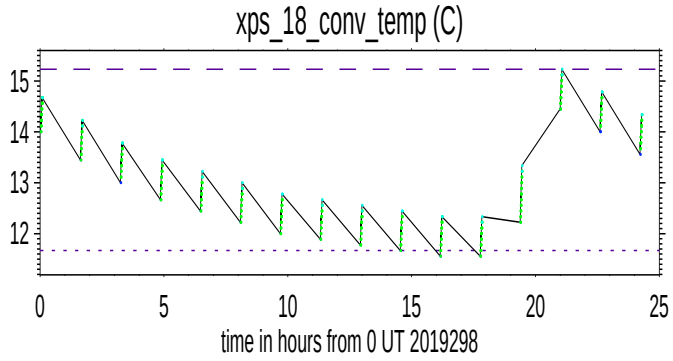
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2019298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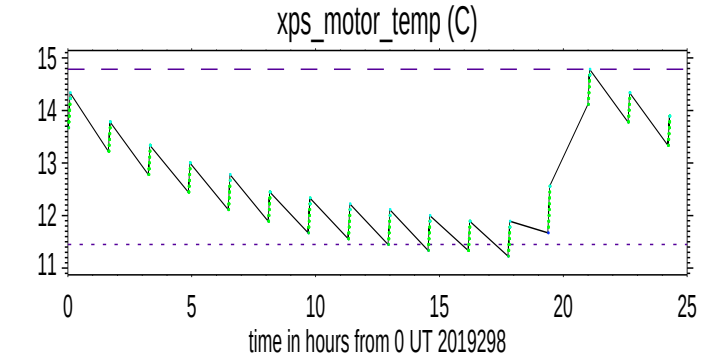
15
20
25
time in hours from 0 UT 2019298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12
11
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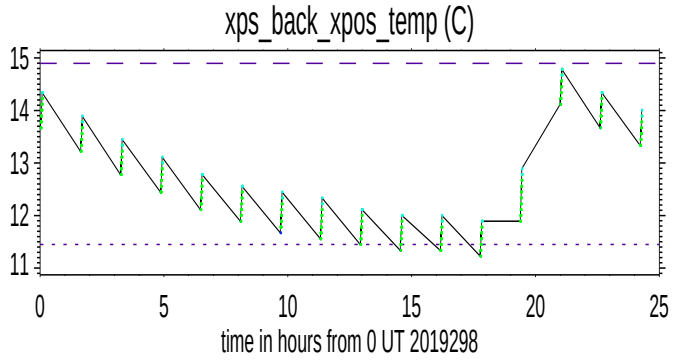
5
10
15
20
25
time in hours from 0 UT 2019298


xps_back_xpos_temp (C)
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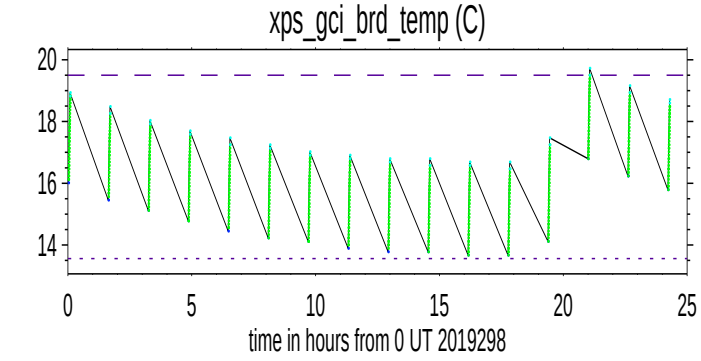
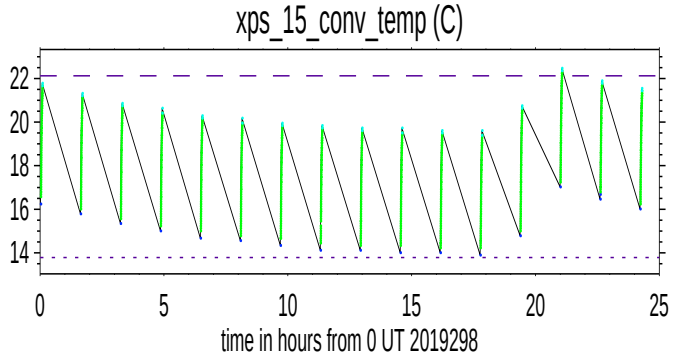
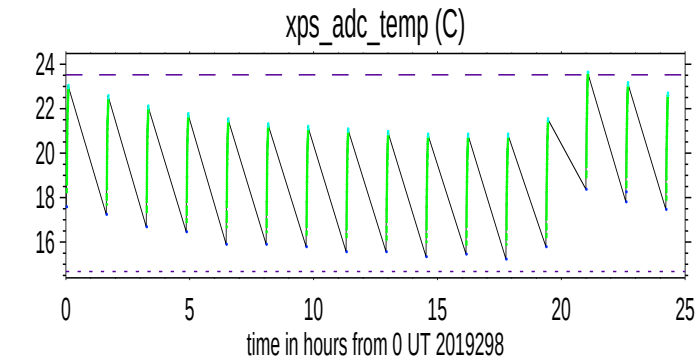
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_gci_brd_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298


xps_adc_temp (C)
24
22
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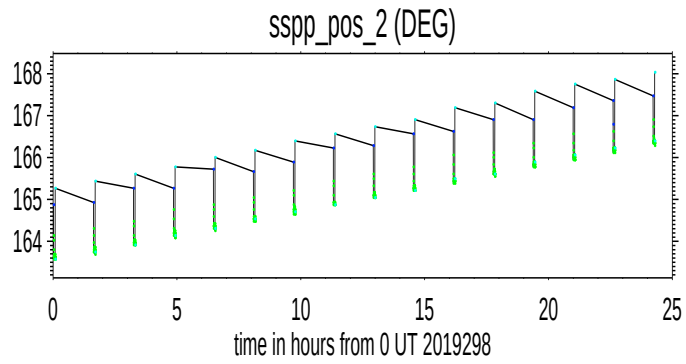
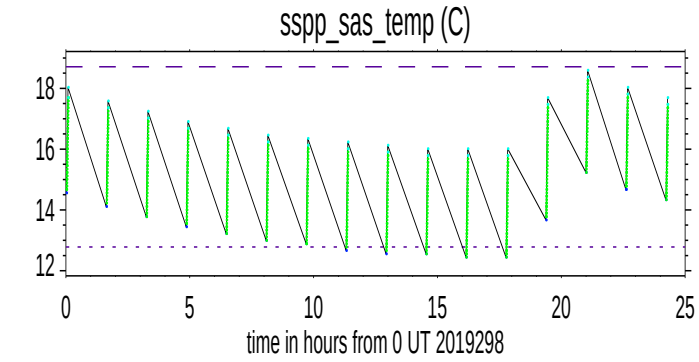
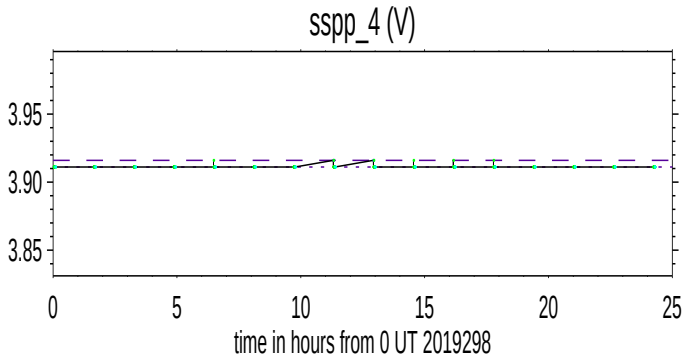
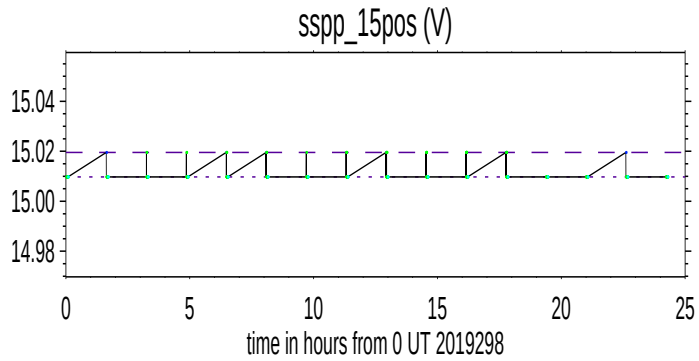
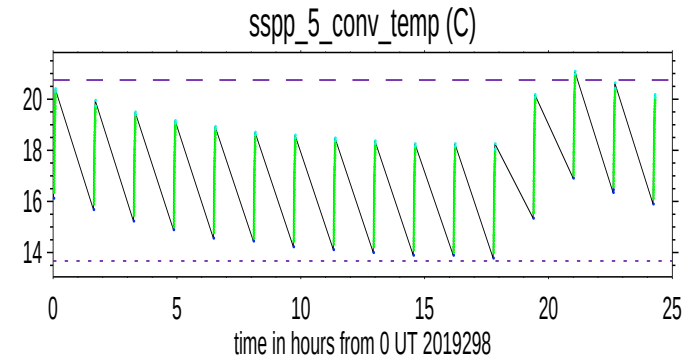
18
16
0
5
10
15
20
25
time in hours from 0 UT 2019298

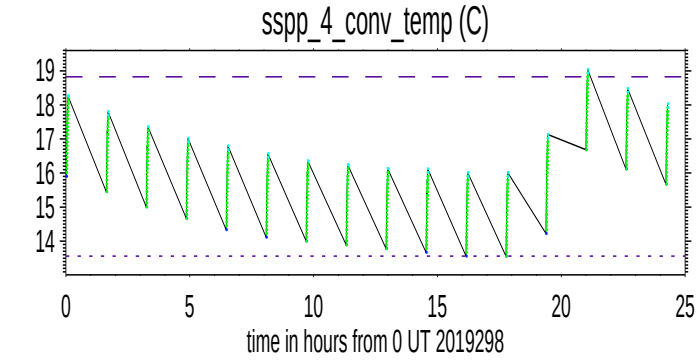

sspp_pos_2 (DEG)
168
167
166
165
164
0
5
10
15
20
25
time in hours from 0 UT 2019298

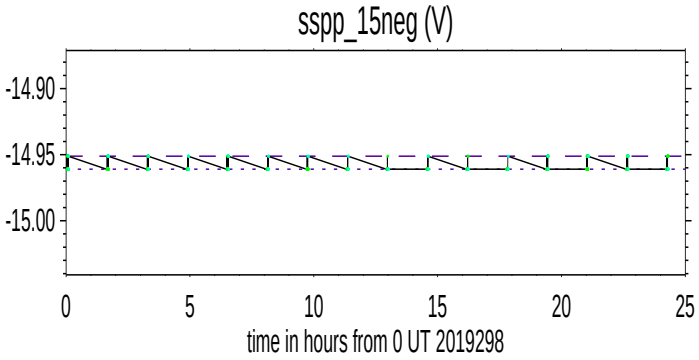

sspp_sas_temp (C)
18
16
14
12
0
5
10
15
20
25
time in hours from 0 UT 2019298

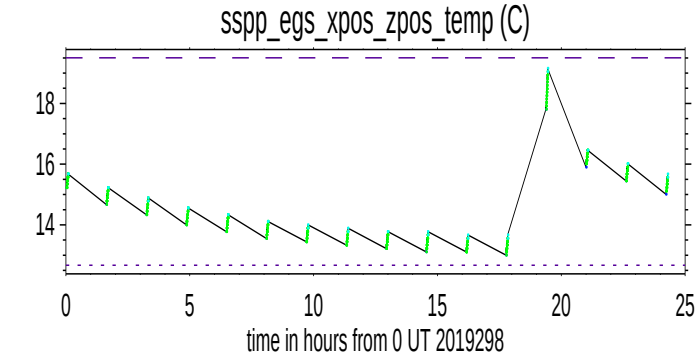

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2019298

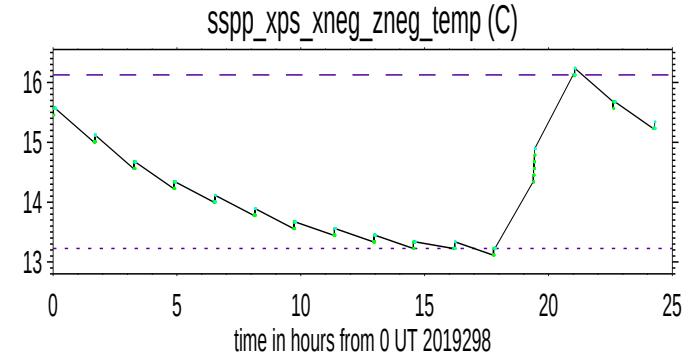

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2019298

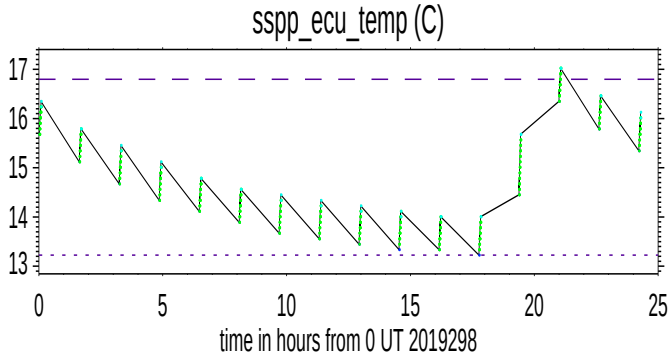

sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298

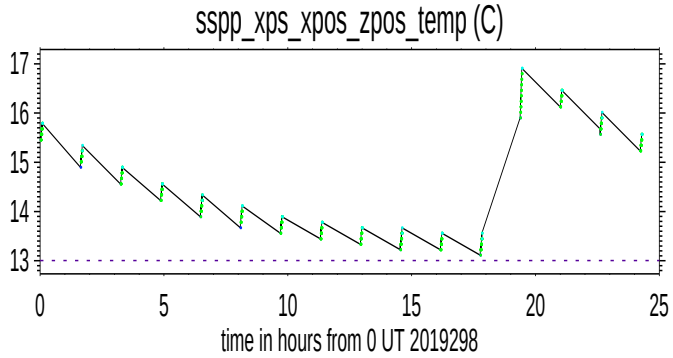

sspp_4_conv_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019298

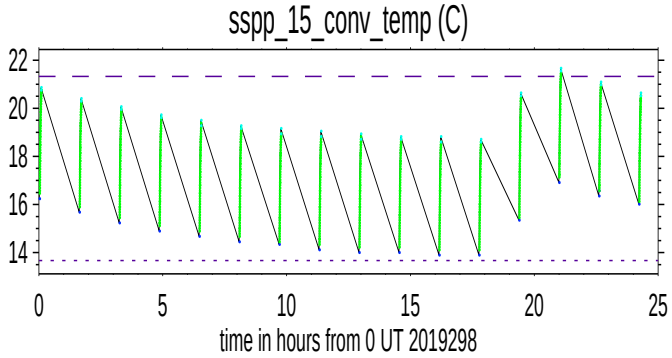

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2019298

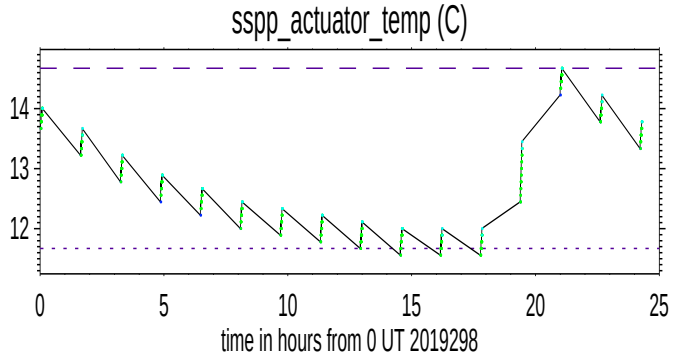

sspp_egs_xpos_zpos_temp (C)
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298

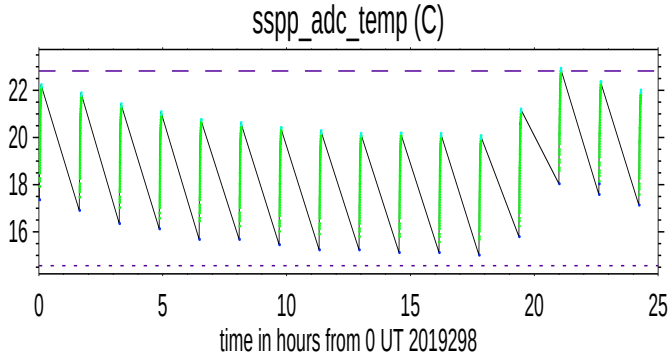

sspp_xps_xneg_zneg_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019298

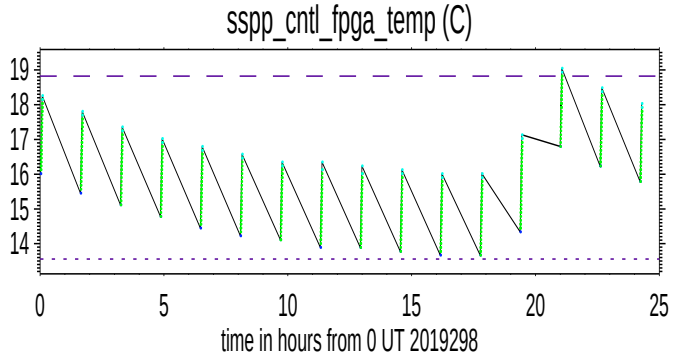

sspp_ecu_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019298

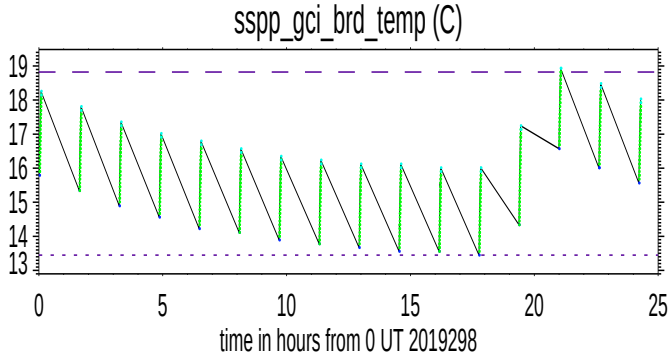

sspp_xps_xpos_zpos_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019298

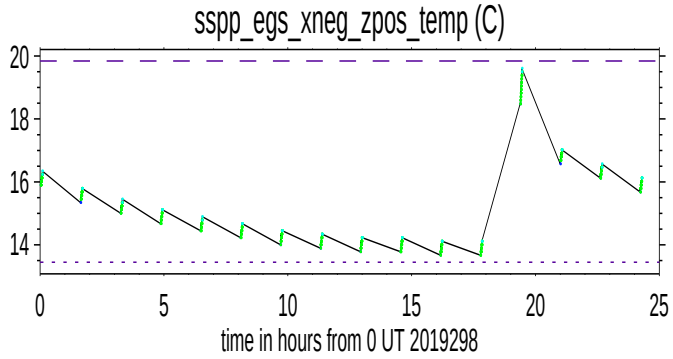

sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298

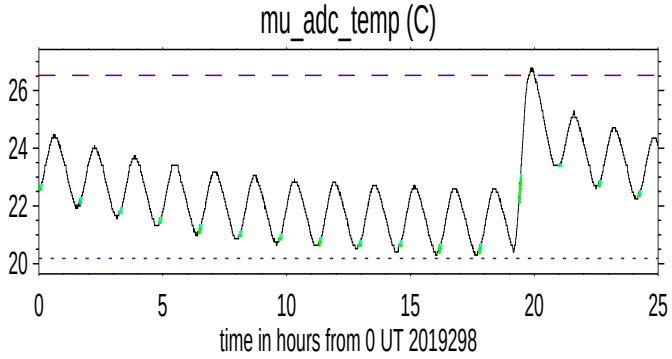

sspp_actuator_temp (C)
14
13
12
0
5
10
15
20
25
time in hours from 0 UT 2019298

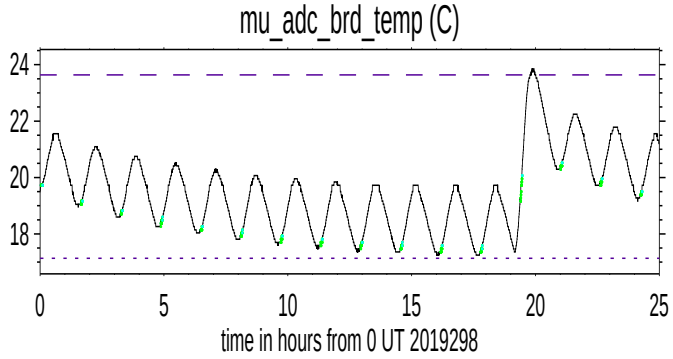

sspp_adc_temp (C)
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2019298

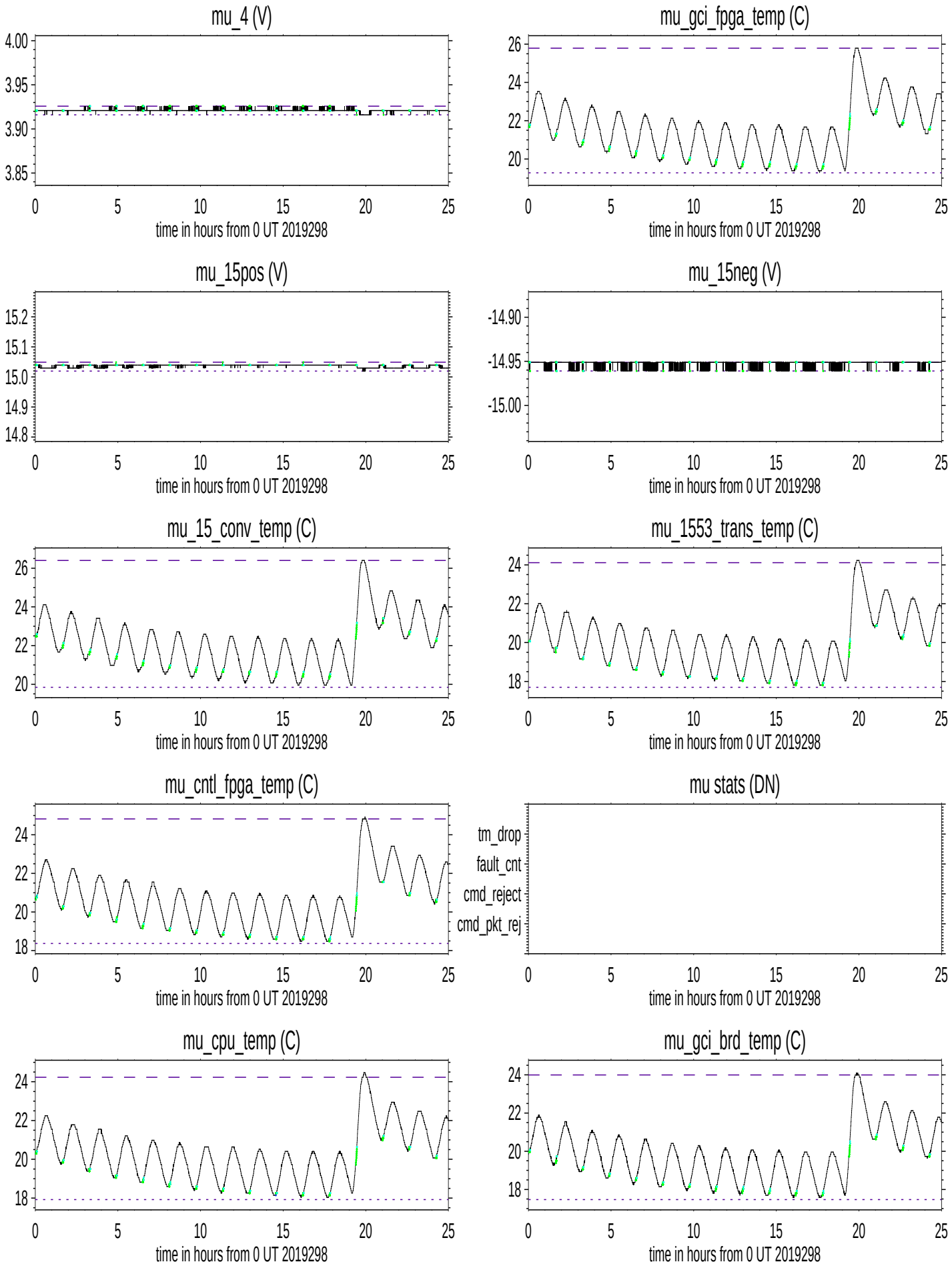

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2019298

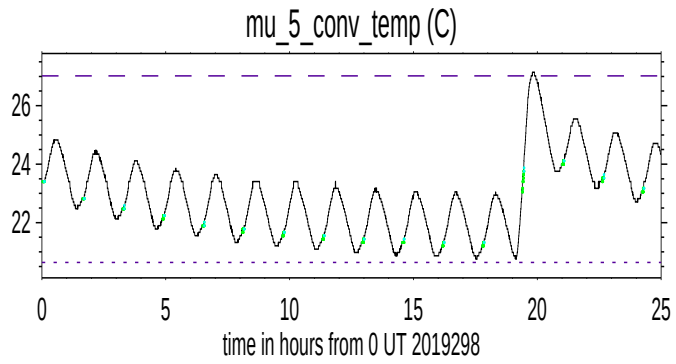

sspp_gci_brd_temp (C)
19
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2019298

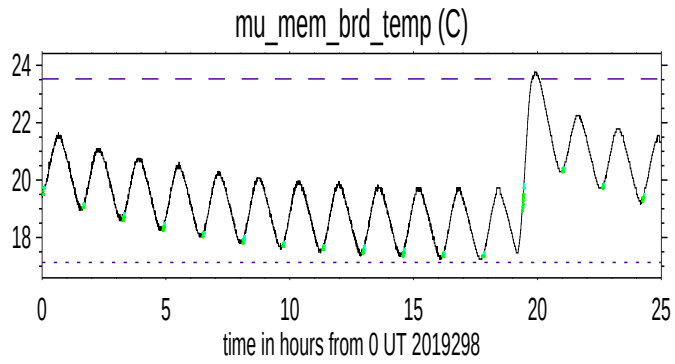

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2019298

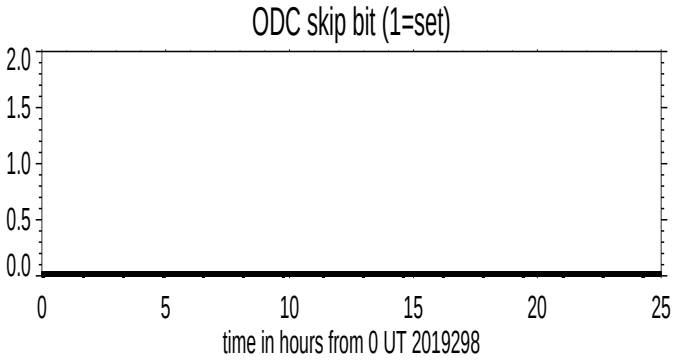

mu_adc_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2019298

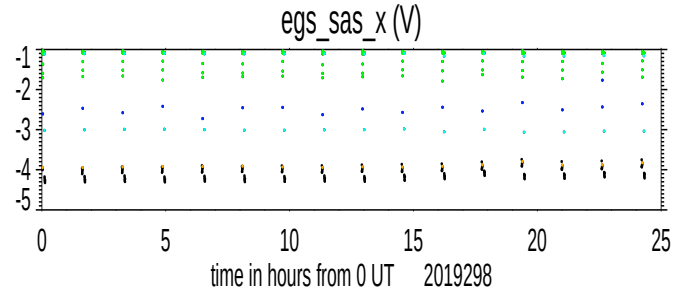

mu_adc_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019298

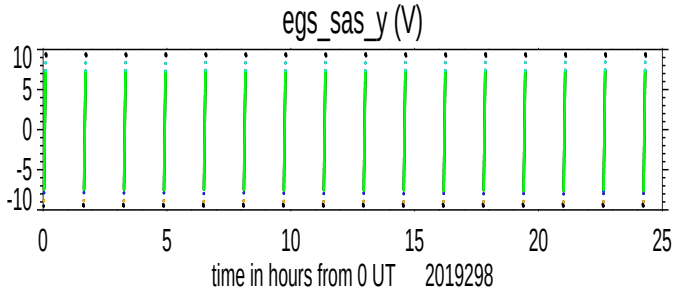

mu_4 (V)
4.00
3.95
3.90
3.85
mu_gci_fpga_temp (C)
26
24
22
20
mu_15pos (V)
15.2
15.1
15.0
14.9
14.8
mu_15neg (V)
-14.90
-14.95
-15.00
mu_15_conv_temp (C)
26
24
22
20
mu_1553_trans_temp (C)
24
22
20
18
mu_cntl_fpga_temp (C)
24
22
20
18
mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
mu_cpu_temp (C)
24
22
20
18
mu_gci_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019298

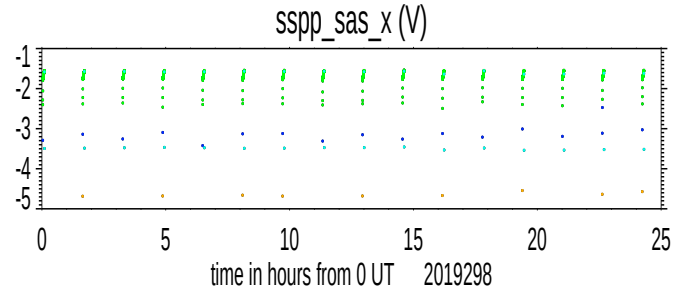

mu_5_conv_temp (C)
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2019298

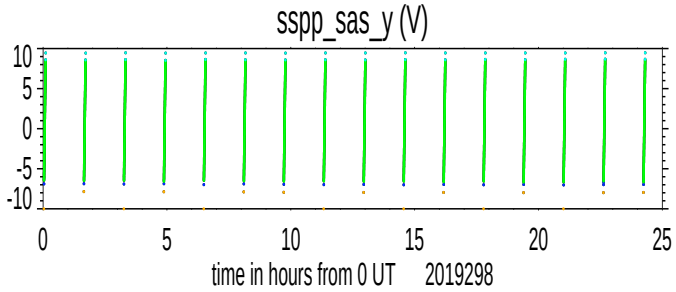

mu_mem_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2019298

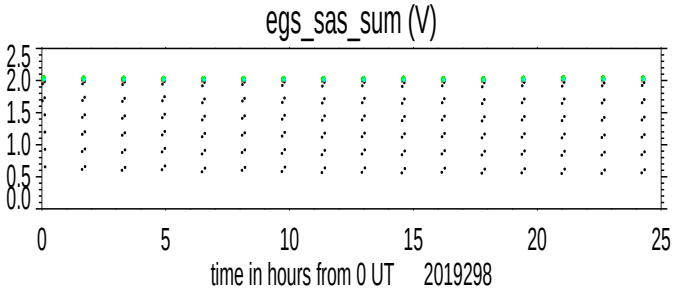

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2019298

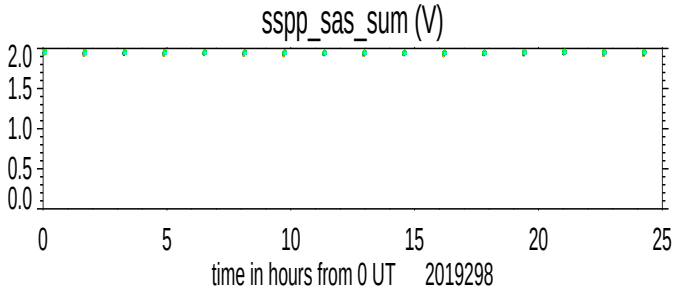

egs_sas_x (V)
time in hours from 0 UT 2019298

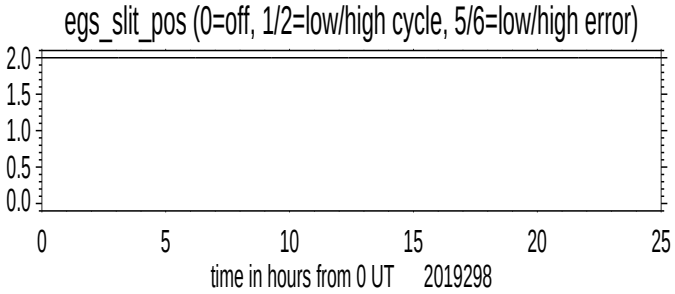

egs_sas_y (V)
time in hours from 0 UT 2019298

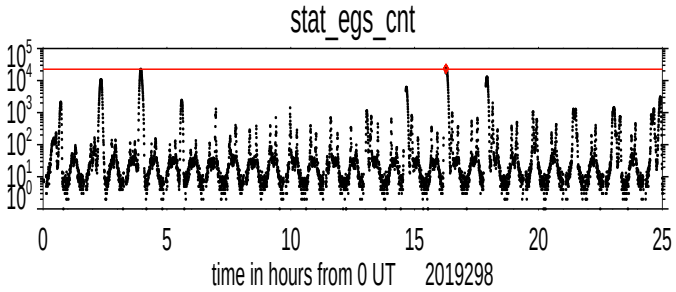

sspp_sas_x (V)
time in hours from 0 UT 2019298

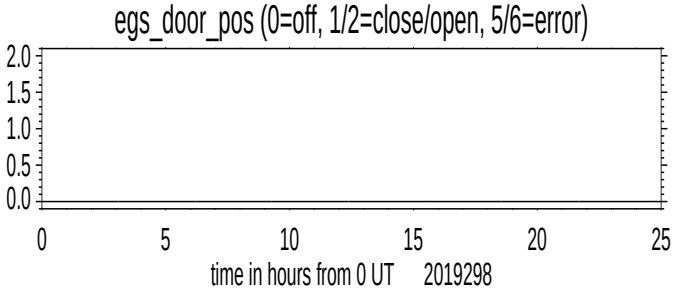

sspp_sas_y (V)
time in hours from 0 UT 2019298

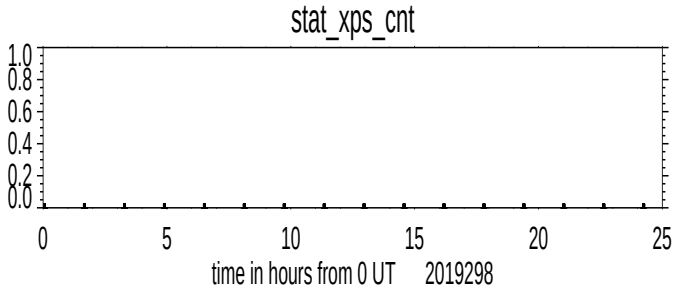

egs_sas_sum (V)
time in hours from 0 UT 2019298

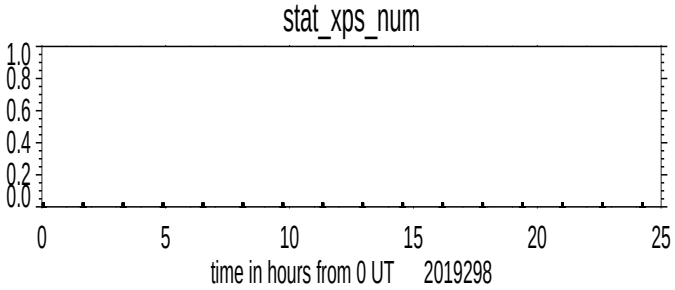

sspp_sas_sum (V)
time in hours from 0 UT 2019298

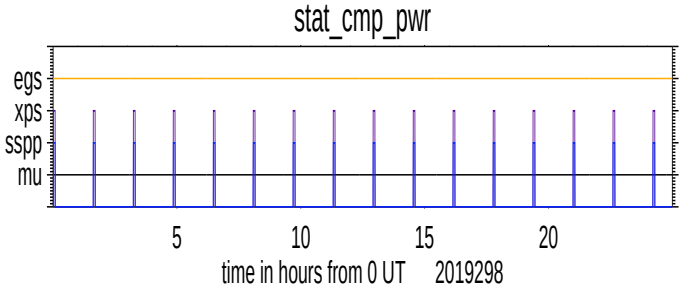

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2019298


stat_egs_cnt
time in hours from 0 UT 2019298

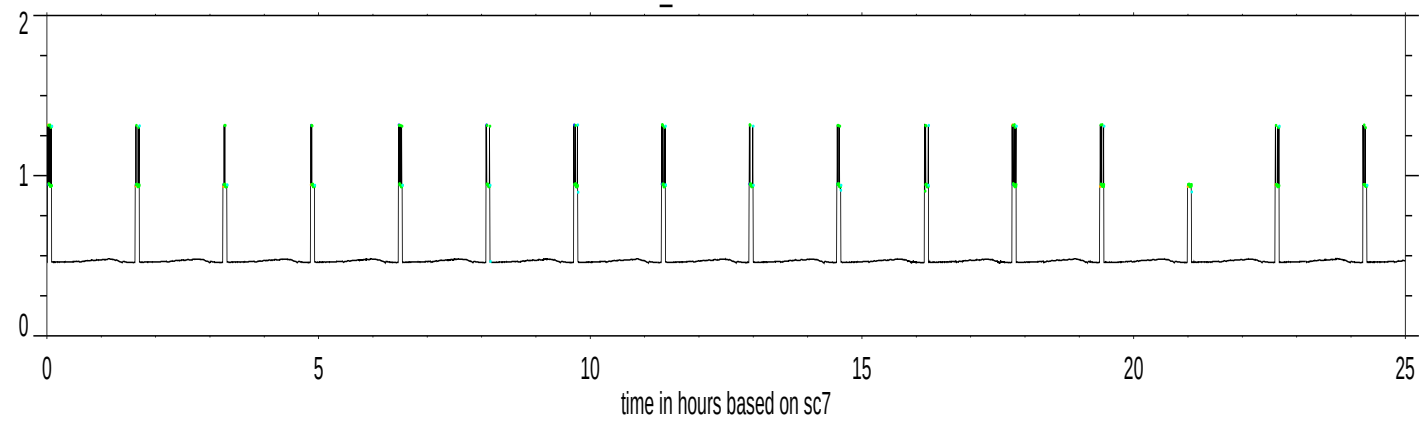

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2019298


stat_xps_cnt
time in hours from 0 UT 2019298

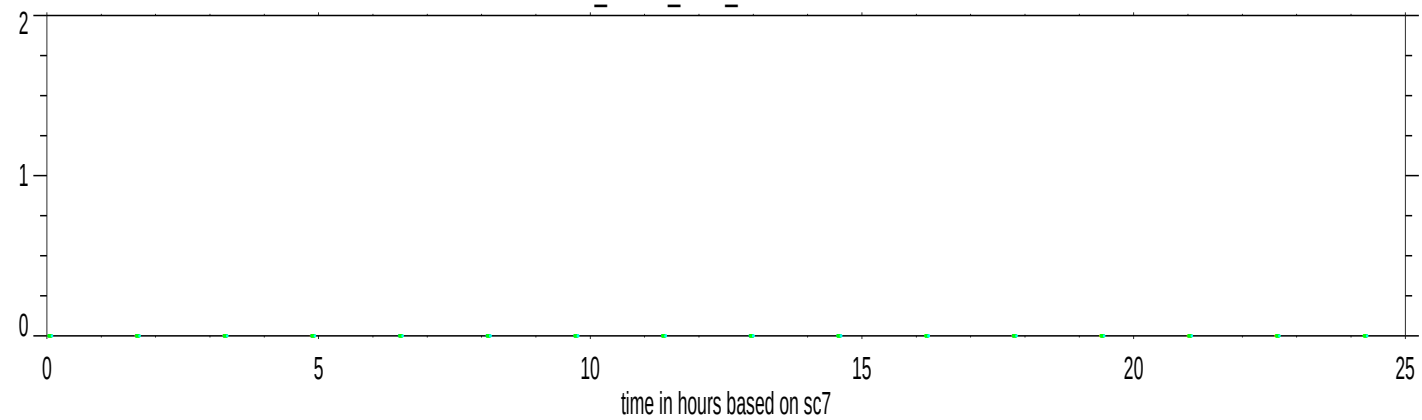

stat_xps_num
time in hours from 0 UT 2019298


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2019298

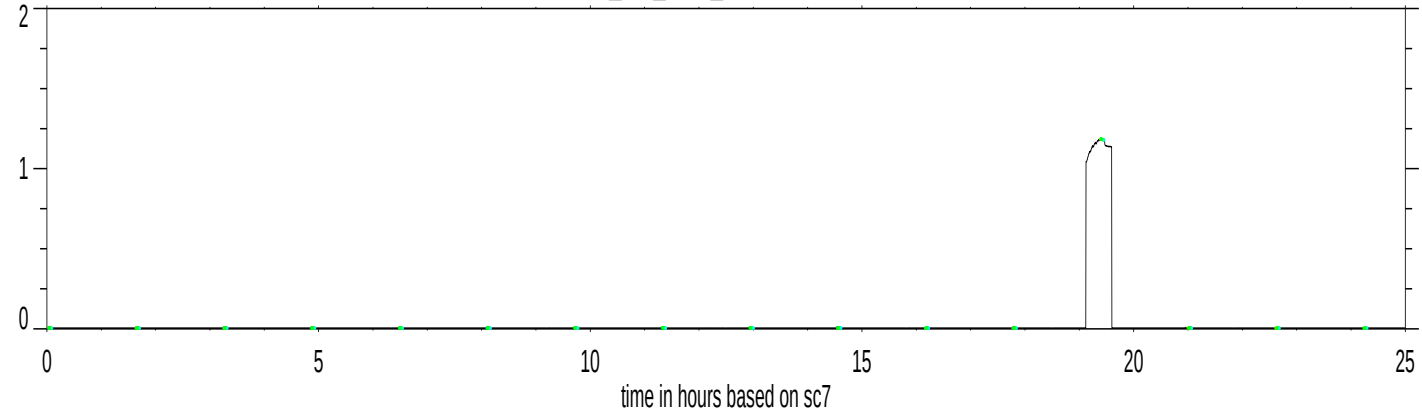
SEE_CUR 2019298



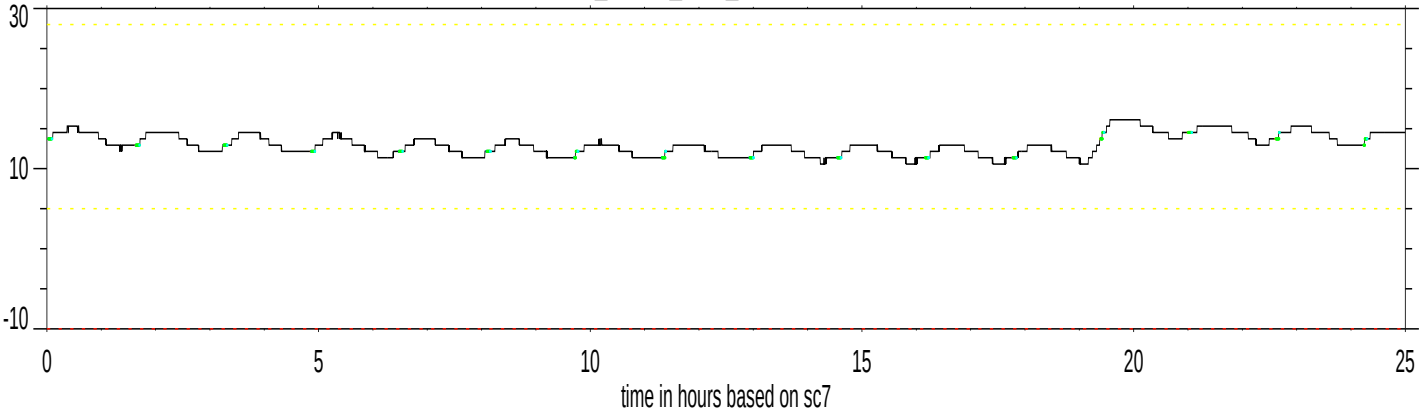

SEE_SURV_HTR_CUR 2019298

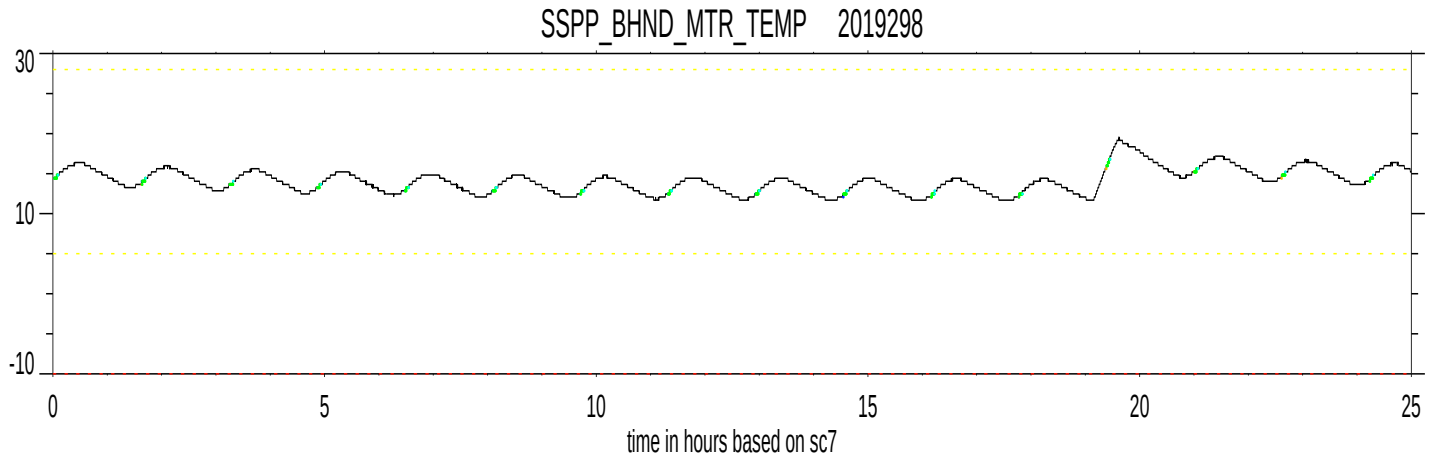


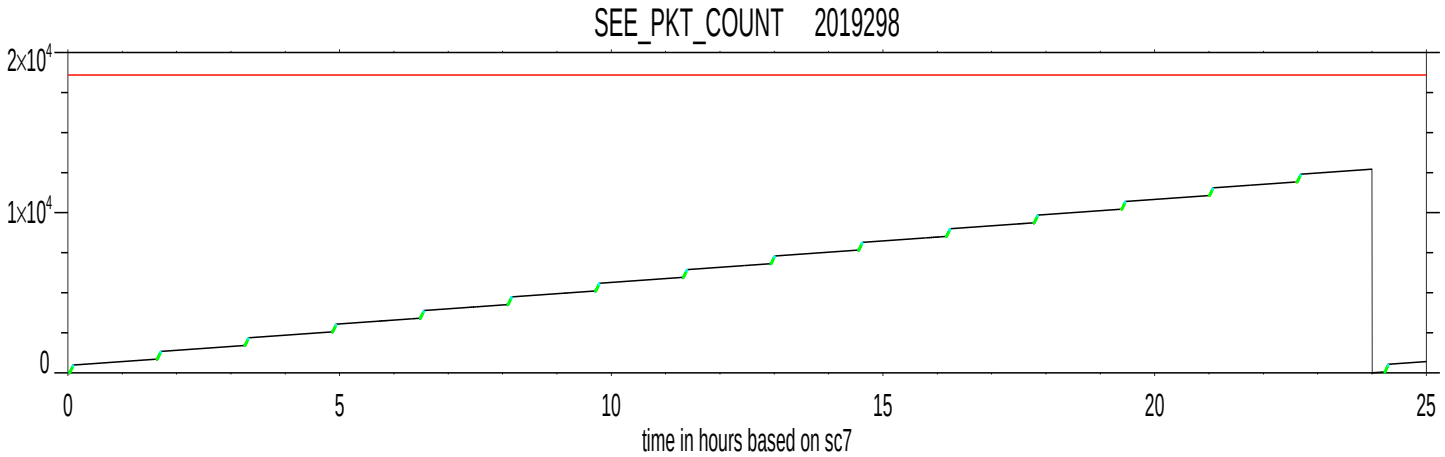

SEE_OP_HTR_CUR 2019298

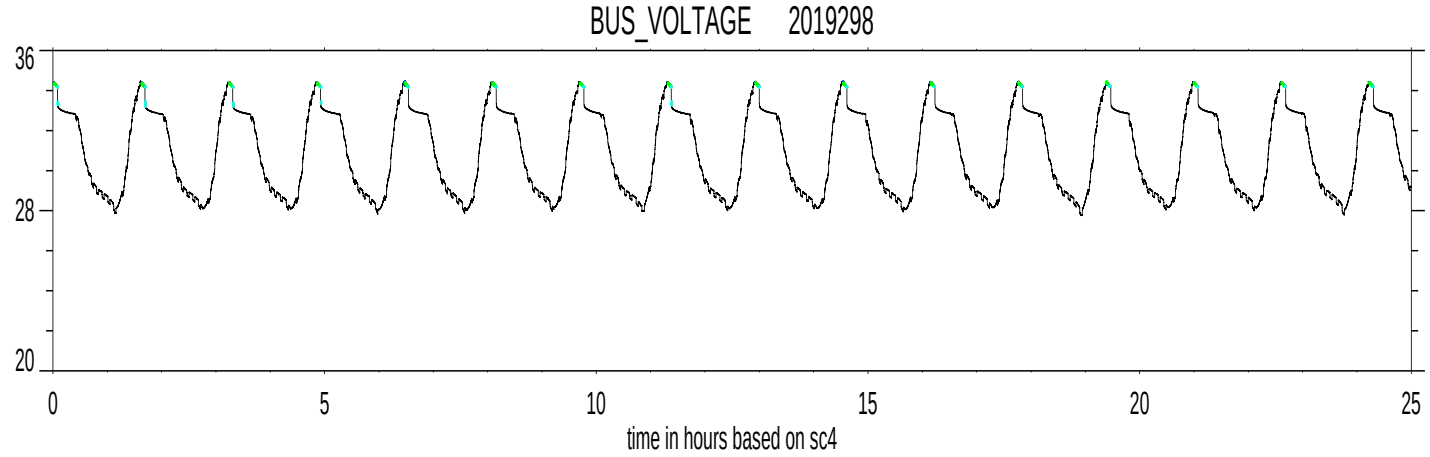


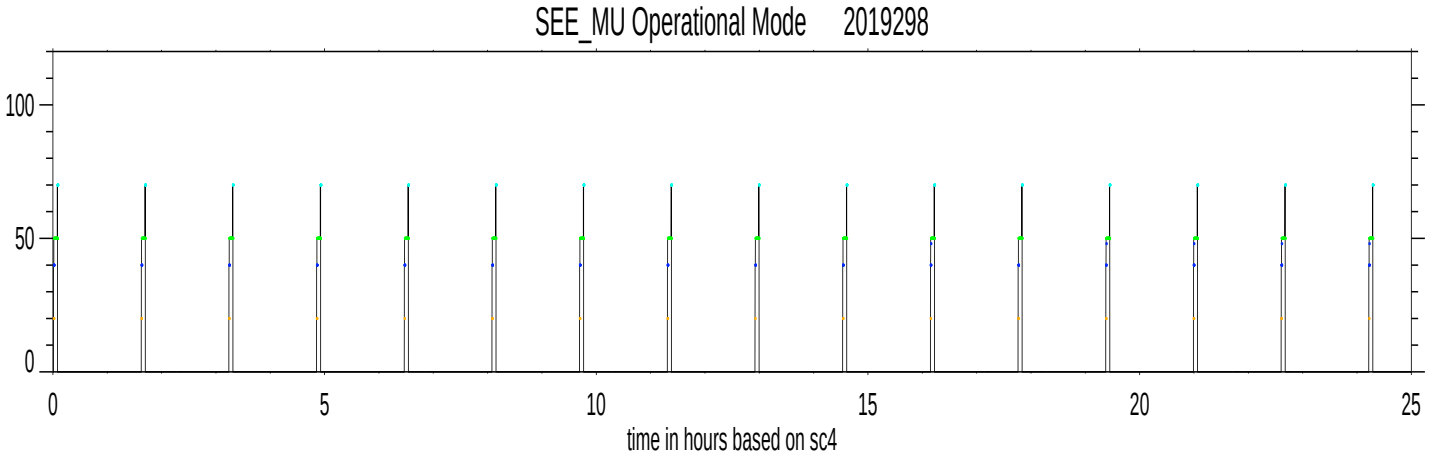

SSPP_BHND_XPS_TEMP 2019298

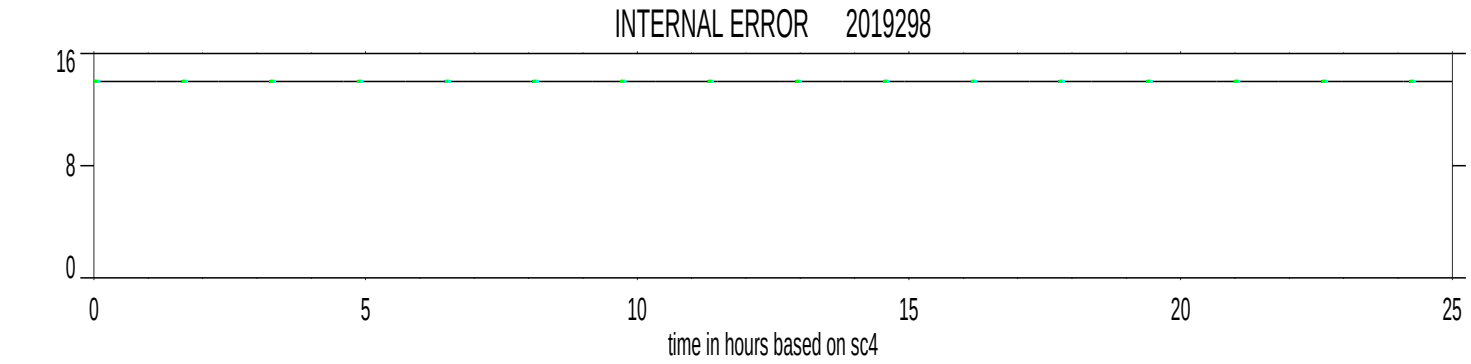


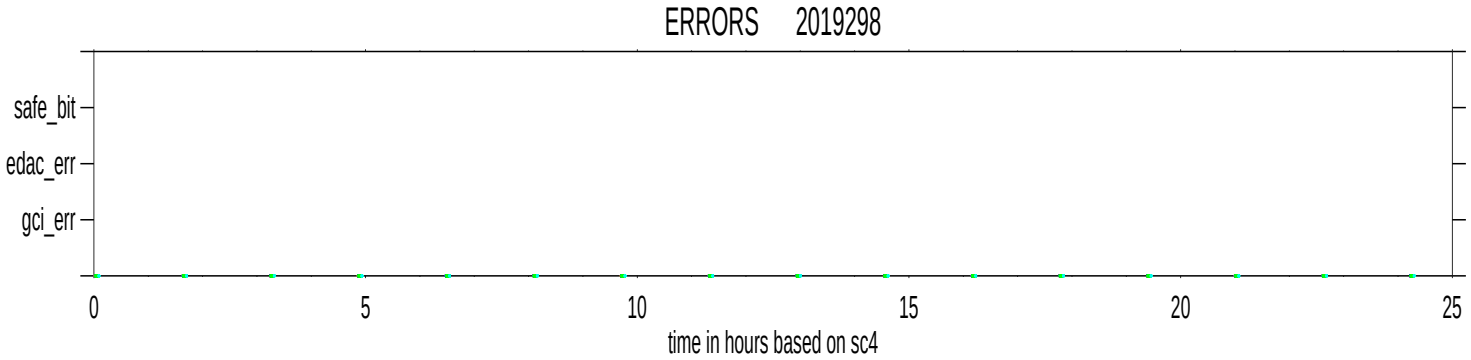

SSPP_BHND_MTR_TEMP 2019298
30
10
-10
0
5
10
15
20
25
time in hours based on sc7

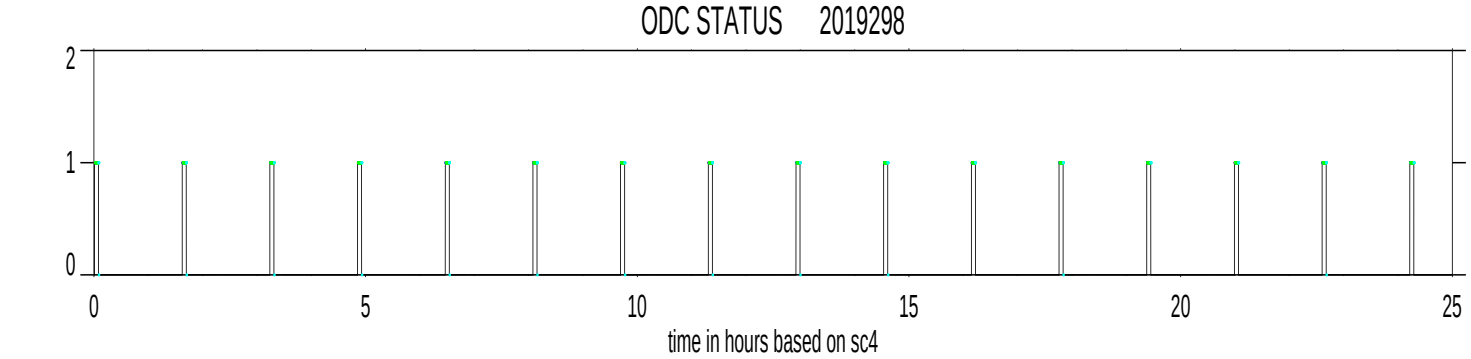

SEE_PKT_COUNT 2019298
2x10^4
1x10^4
0
0
5
10
15
20
25
time in hours based on sc7

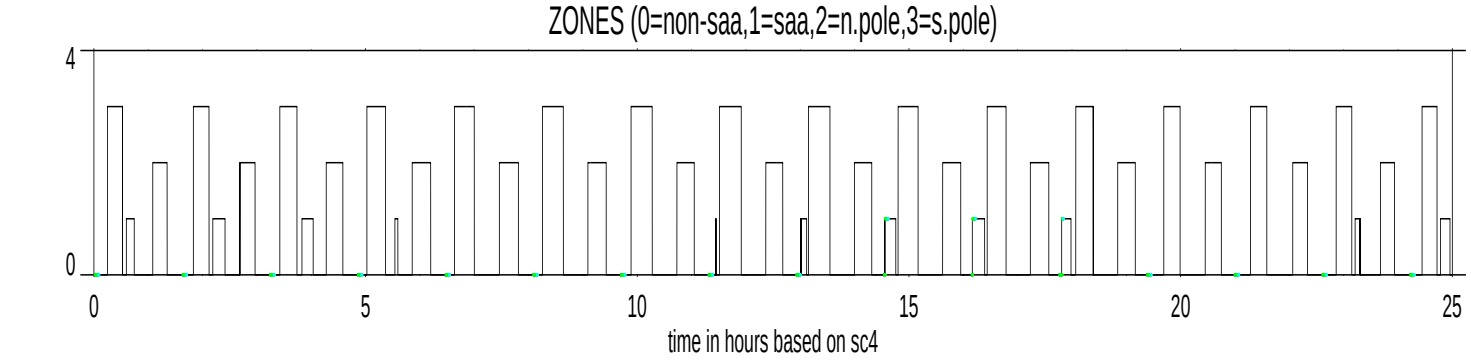

BUS_VOLTAGE 2019298
36
28
20
0
5
10
15
20
25
time in hours based on sc4

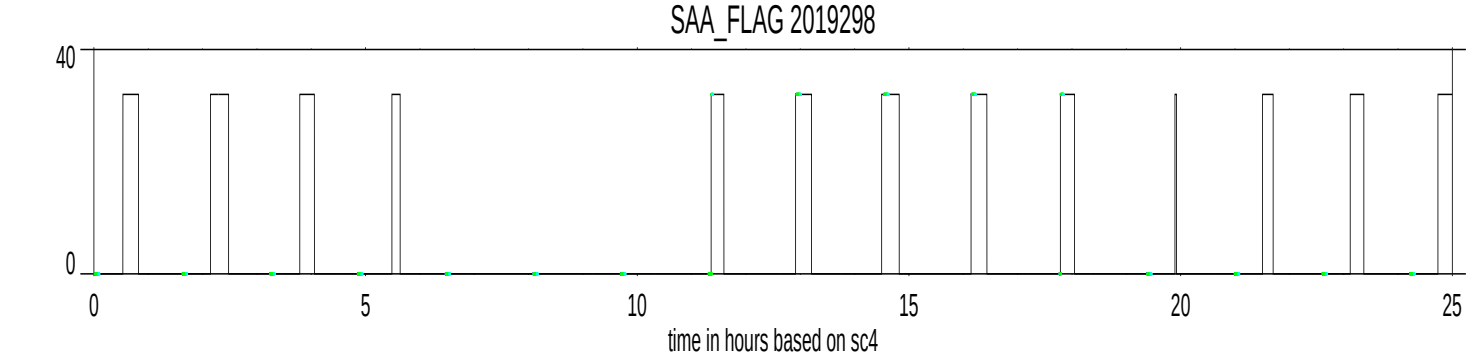

SEE_MU Operational Mode 2019298
100
50
0
0
5
10
15
20
25
time in hours based on sc4

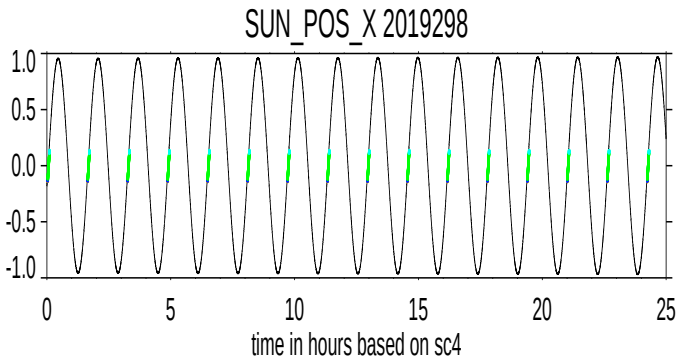

INTERNAL ERROR 2019298
16
8
0
0
5
10
15
20
25
time in hours based on sc4

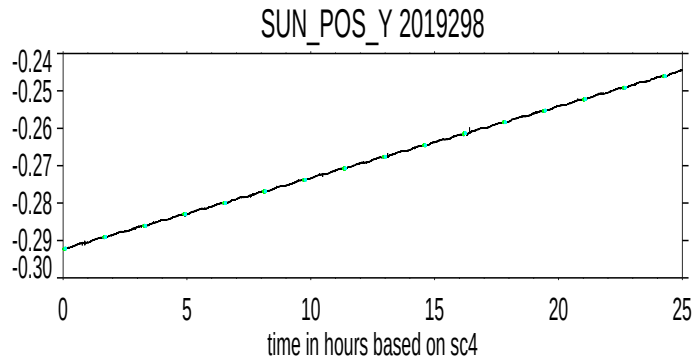

ERRORS 2019298
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

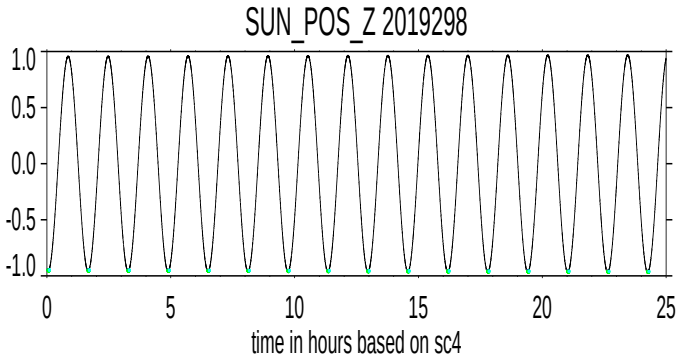

ODC STATUS 2019298
2
1
0
0
5
10
15
20
25
time in hours based on sc4

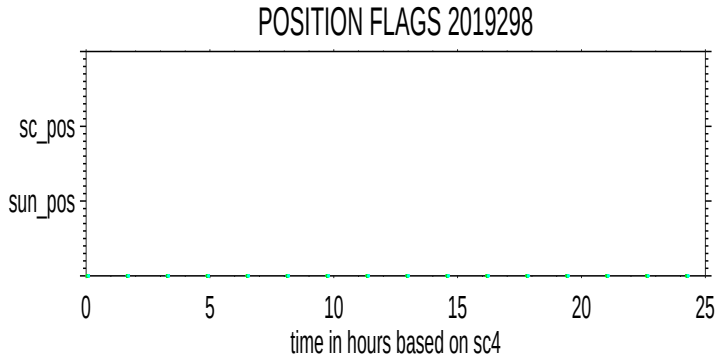

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

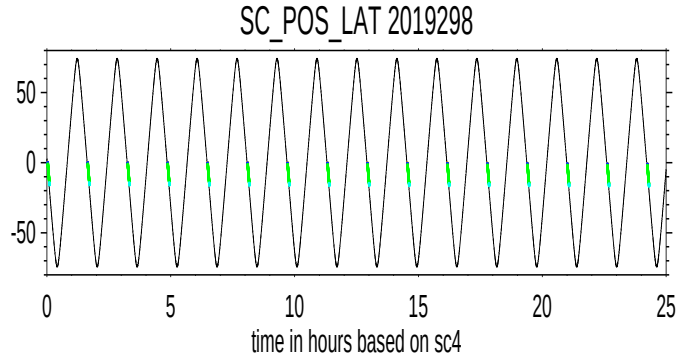

SAA_FLAG 2019298
40
0
0
5
10
15
20
25
time in hours based on sc4

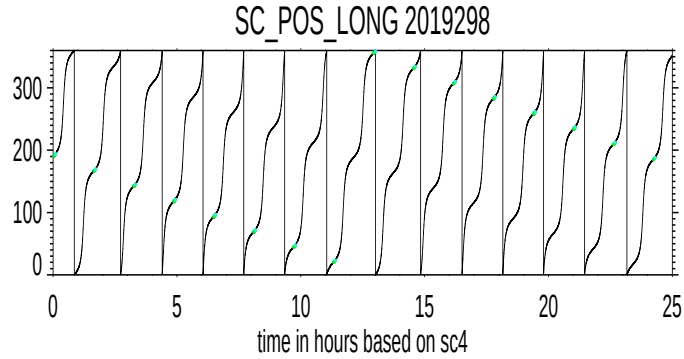

SUN_POS_X 2019298
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

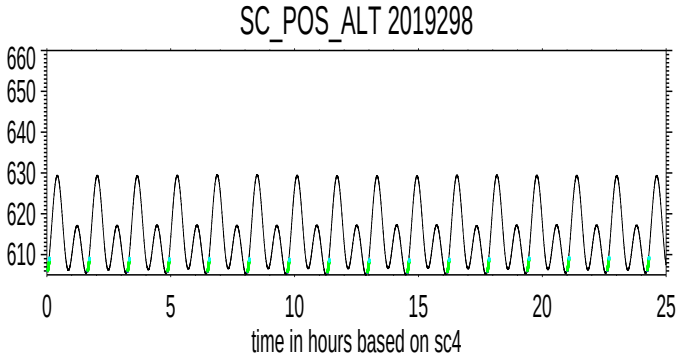

SUN_POS_Y 2019298
-0.24
-0.25
-0.26
-0.27
-0.28
-0.29
-0.30
0
5
10
15
20
25
time in hours based on sc4

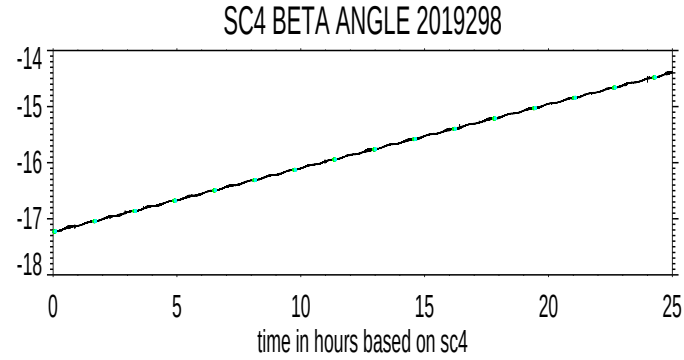

SUN_POS_Z 2019298
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2019298
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2019298
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2019298
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2019298
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2019298
-14
-15
-16
-17
-18
0
5
10
15
20
25
time in hours based on sc4