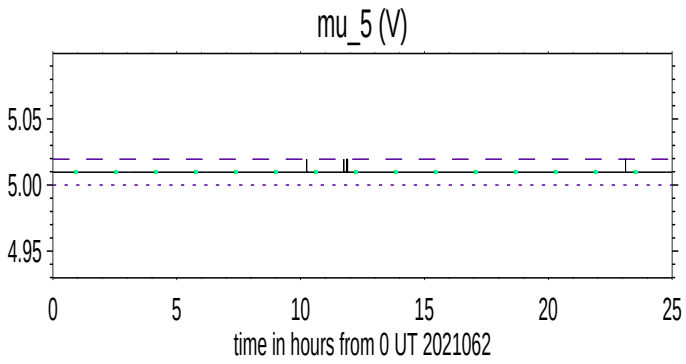
```
Information for      2021062
12:13:52.001: see_stat[1]: 6 internal error
```

/export/timed/data/science_dp/tlm_limit/outoflimit_2021062_012.txt
Fri Apr 02 06:17:37 2021 1

RH OutOfLimit 1298764823 1298854815 hk.mu_cmd_pkt_reject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5.00
4.95
0
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10
15
20
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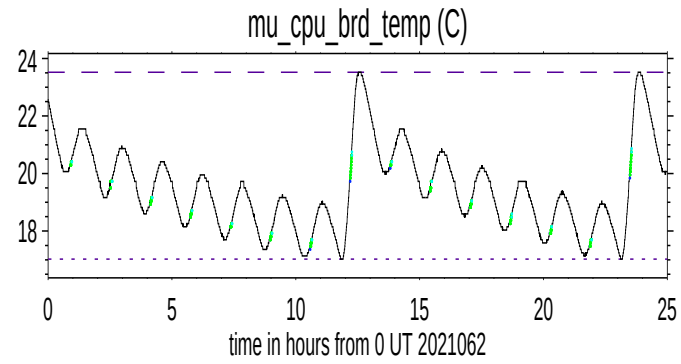
time in hours from 0 UT 2021062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22
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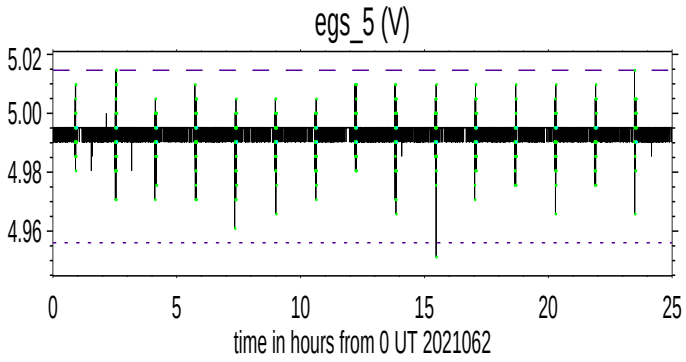
time in hours from 0 UT 2021062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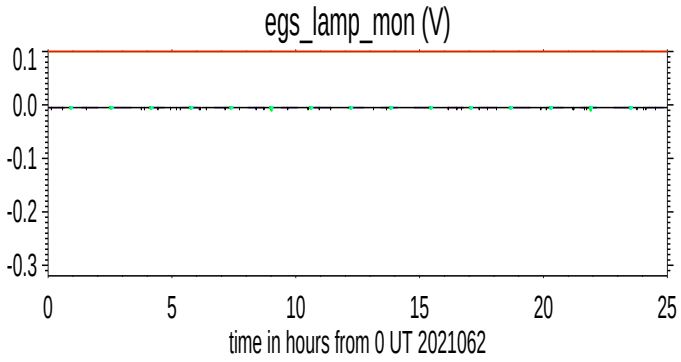
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021062


egs_lamp_mon (V)
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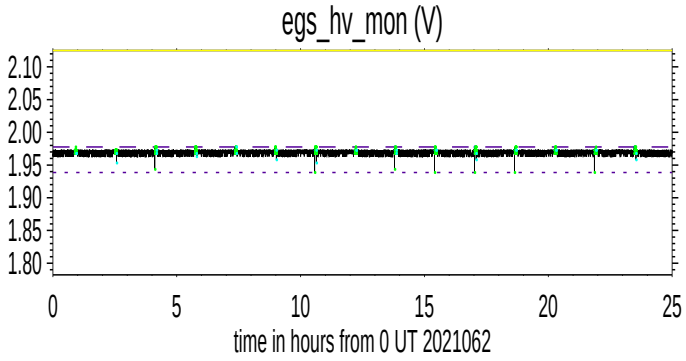
0.0
-0.1
-0.2
-0.3
0
5
10
15
20
25
time in hours from 0 UT 2021062


egs_hv_mon (V)
2.10
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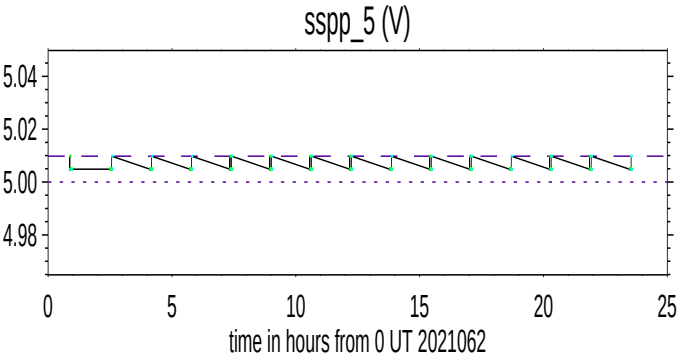
2.00
1.95
1.90
1.85
1.80
0
5
10
15
20
25
time in hours from 0 UT 2021062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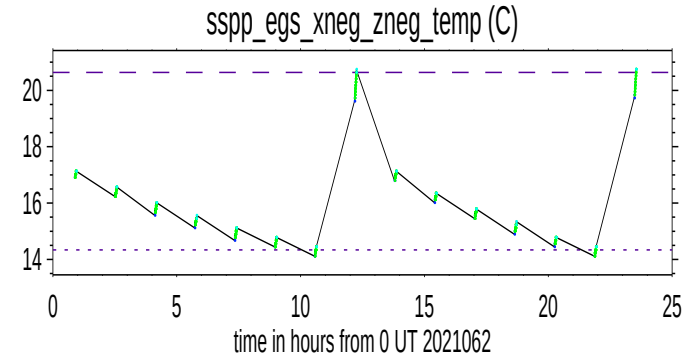
5.04
5.02
5.00
4.98
0
5
10
15
20
25
time in hours from 0 UT 2021062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18
16
14
0
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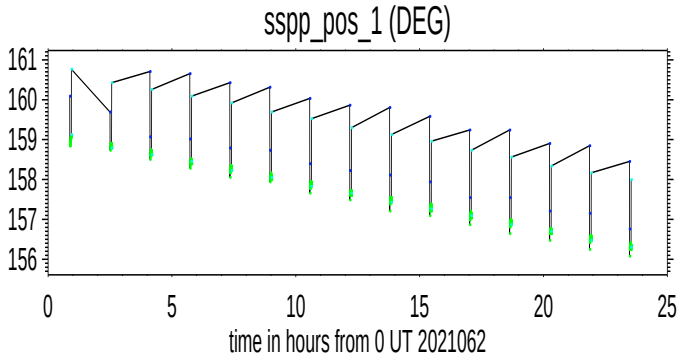
10
15
20
25
time in hours from 0 UT 2021062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161
160
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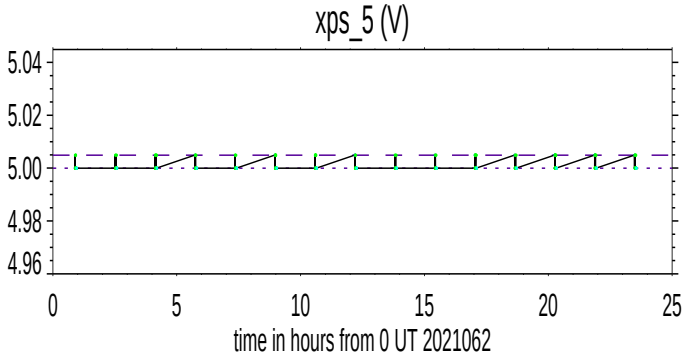
158
157
156
0
5
10
15
20
25
time in hours from 0 UT 2021062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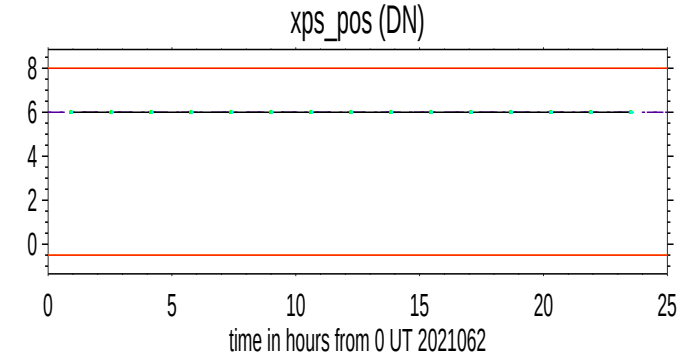
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2021062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6
4
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0
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10
15
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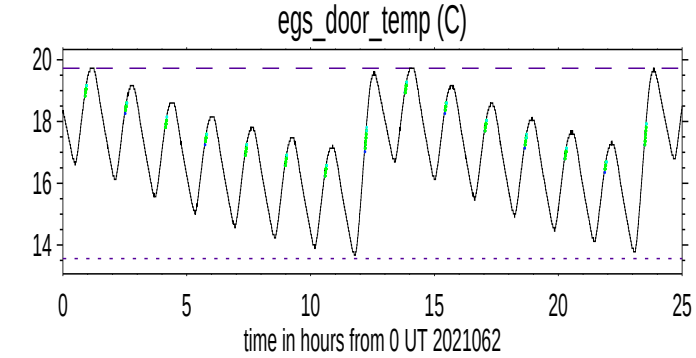
time in hours from 0 UT 2021062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10
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20
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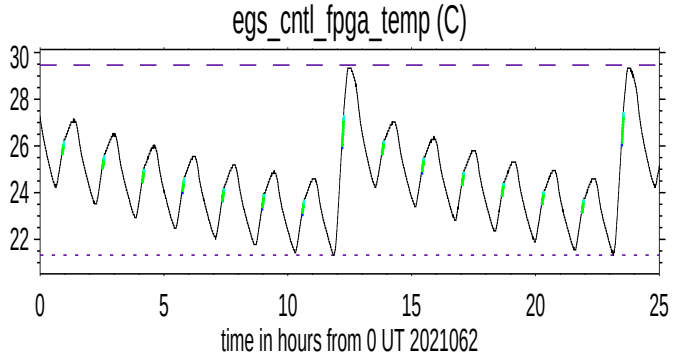
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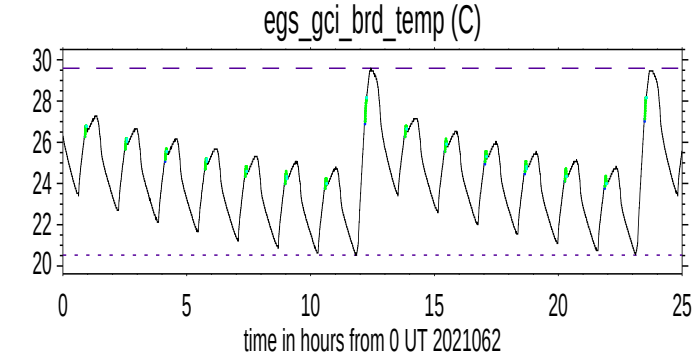
30
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2021062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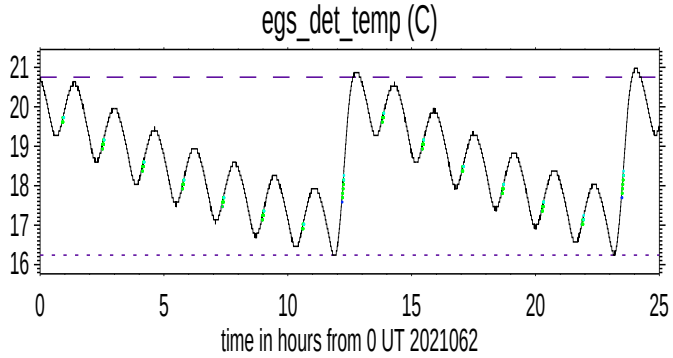
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021062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16
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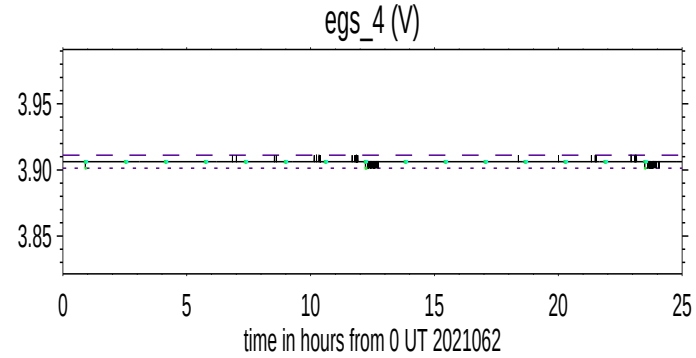
10
15
20
25
time in hours from 0 UT 2021062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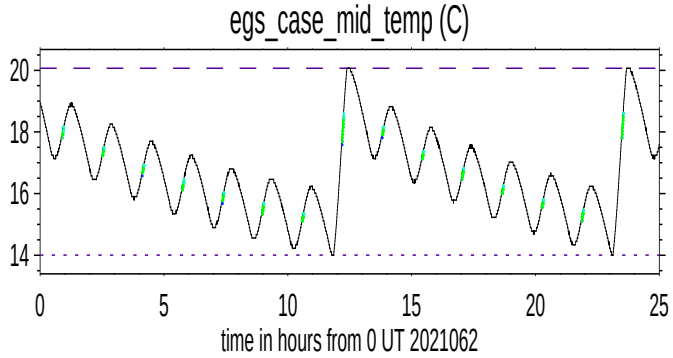
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021062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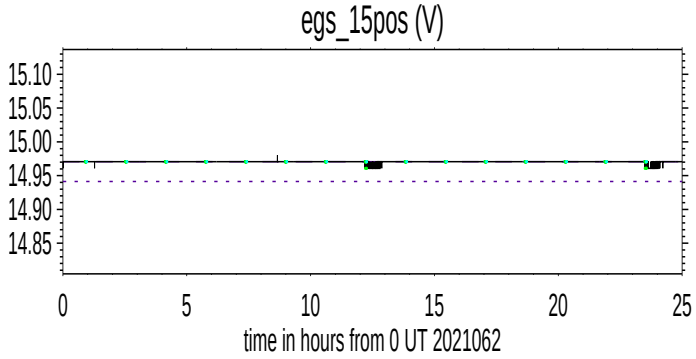
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021062


egs_15pos (V)
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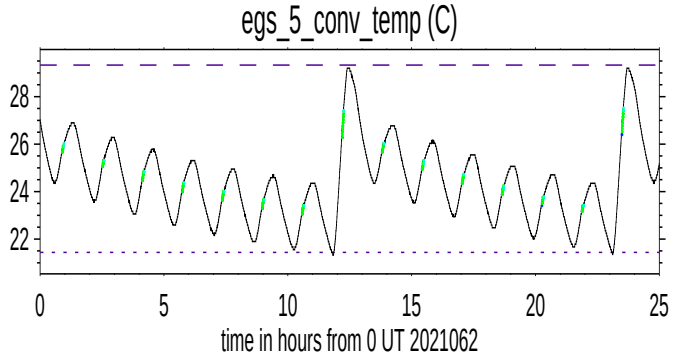
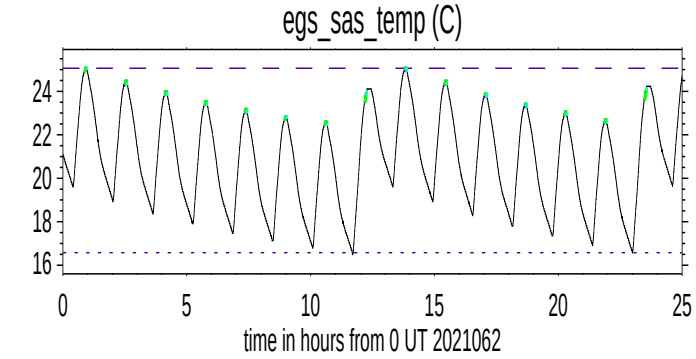
15.00
14.95
14.90
14.85
0
5
10
15
20
25
time in hours from 0 UT 2021062


egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2021062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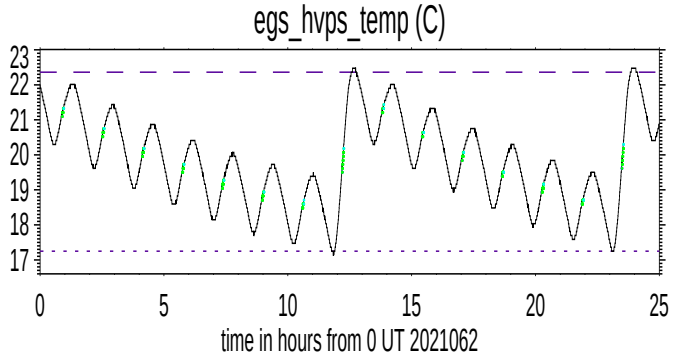
22
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2021062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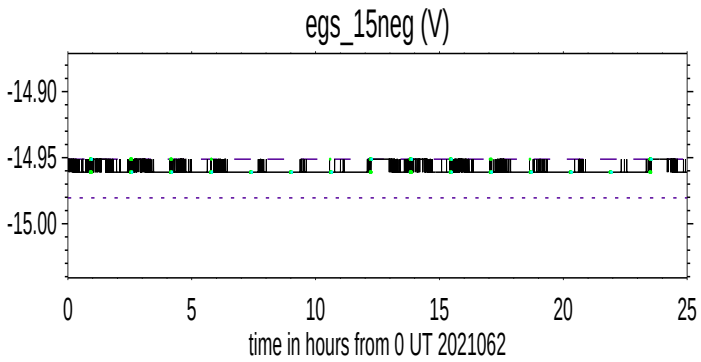
22
21
20
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2021062


egs_15neg (V)
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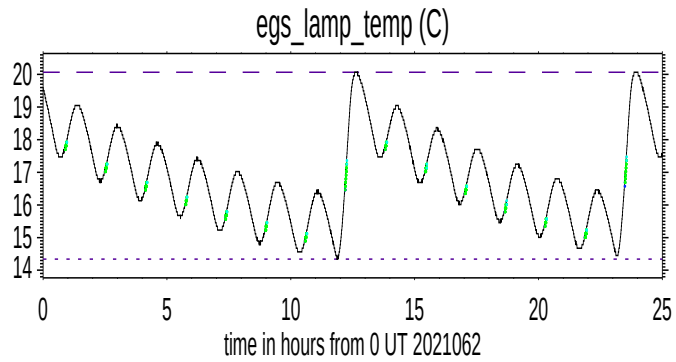
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2021062


egs_lamp_temp (C)
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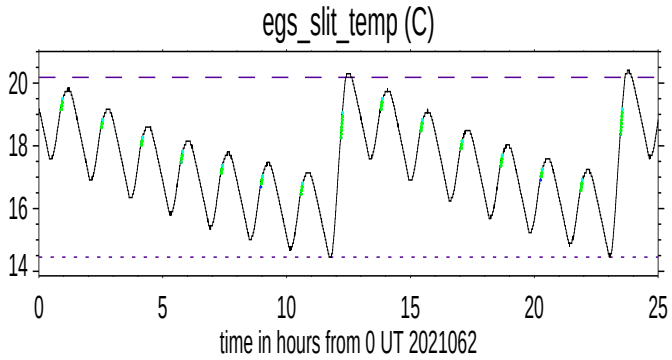
0 5 10 15 20 25
time in hours from 0 UT 2021062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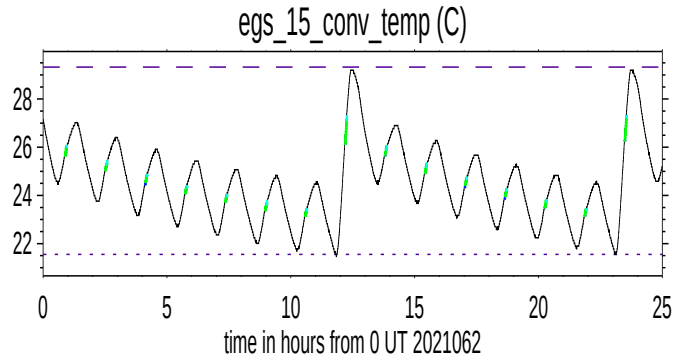
0 5 10 15 20 25
time in hours from 0 UT 2021062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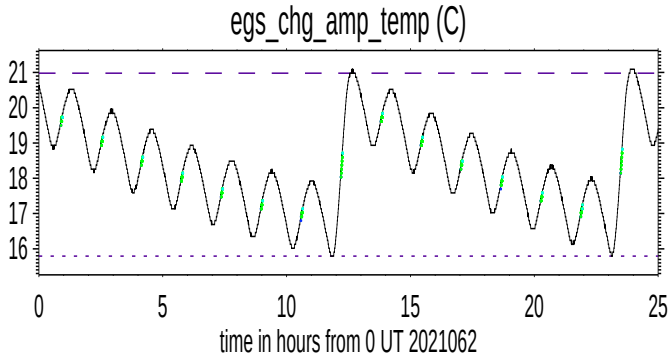
time in hours from 0 UT 2021062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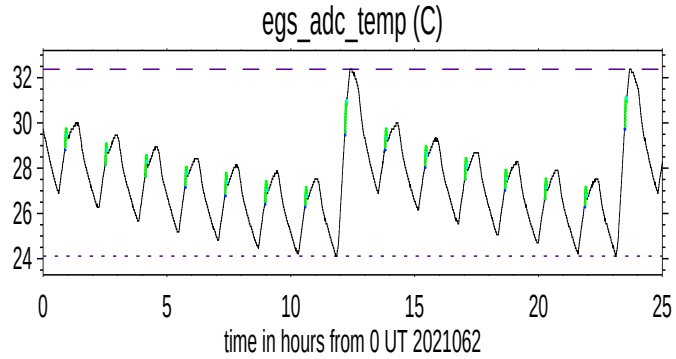
0 5 10 15 20 25
time in hours from 0 UT 2021062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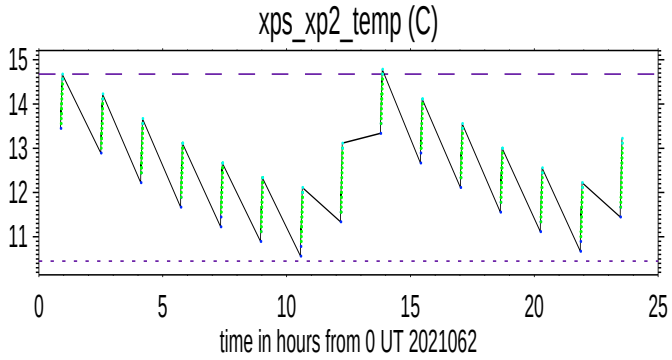
time in hours from 0 UT 2021062


xps_xp2_temp (C)
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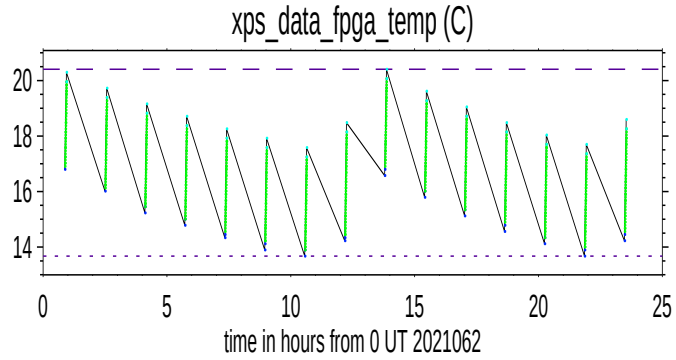
0 5 10 15 20 25
time in hours from 0 UT 2021062


xps_data_fpga_temp (C)
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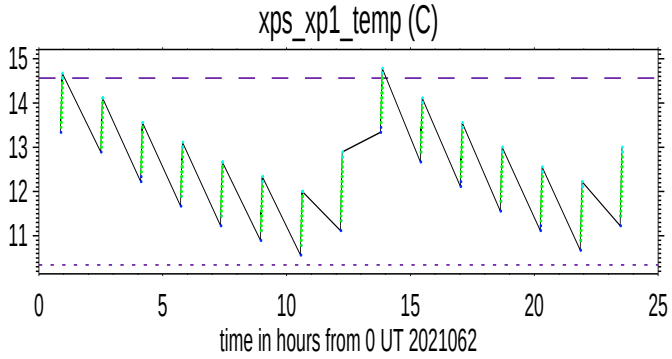
0 5 10 15 20 25
time in hours from 0 UT 2021062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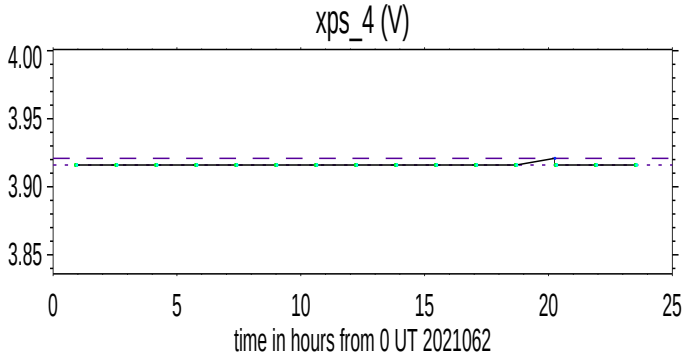
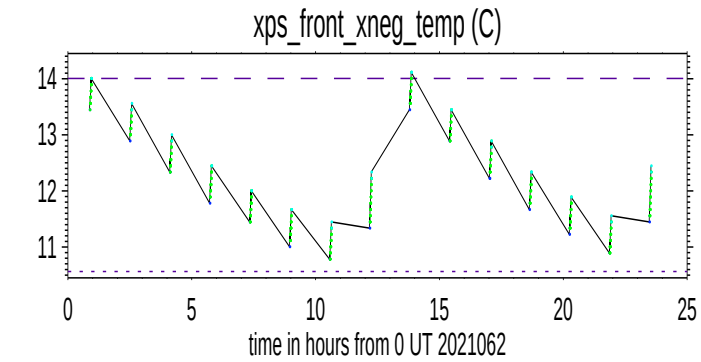
0 5 10 15 20 25
time in hours from 0 UT 2021062


xps_4 (V)
4.00
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2021062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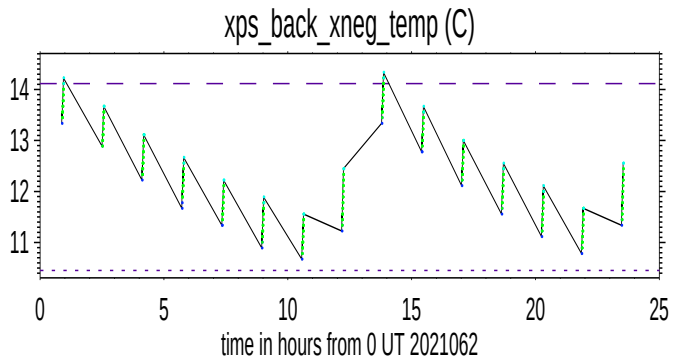
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2021062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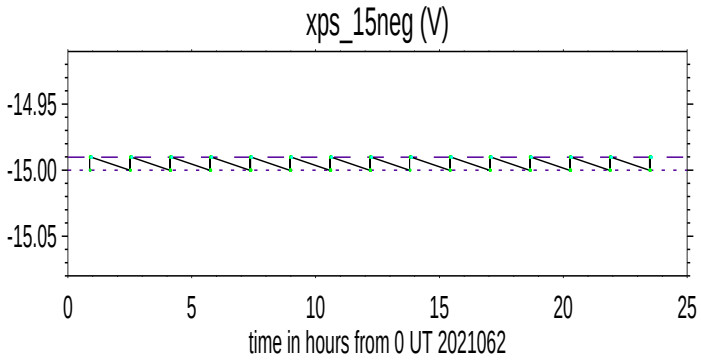
13
12
11
0
5
10
15
20
25
time in hours from 0 UT 2021062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-15.05
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15
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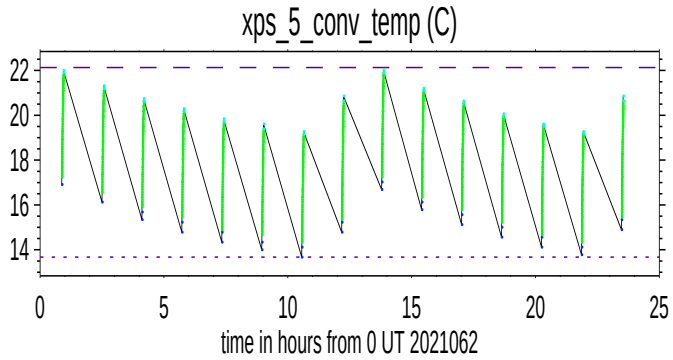
25
time in hours from 0 UT 2021062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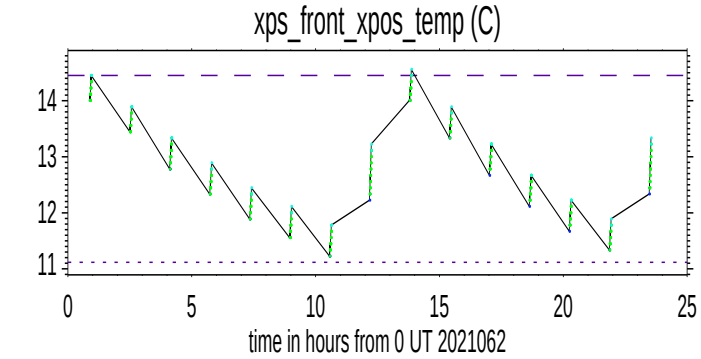
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021062


xps_front_xpos_temp (C)
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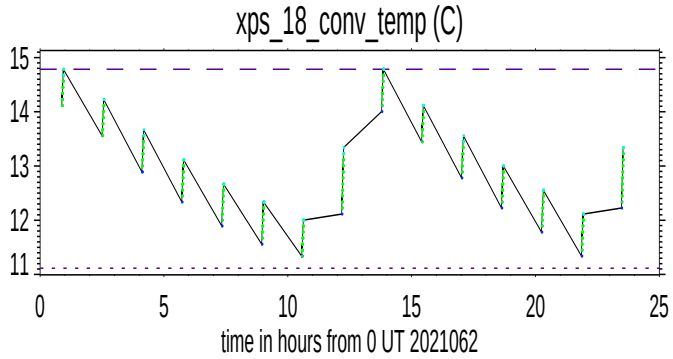
time in hours from 0 UT 2021062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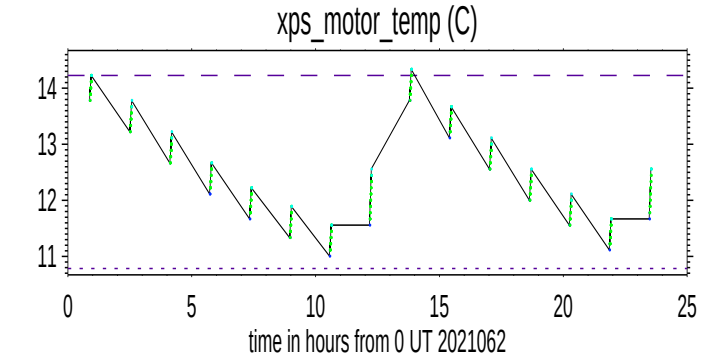
time in hours from 0 UT 2021062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11
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10
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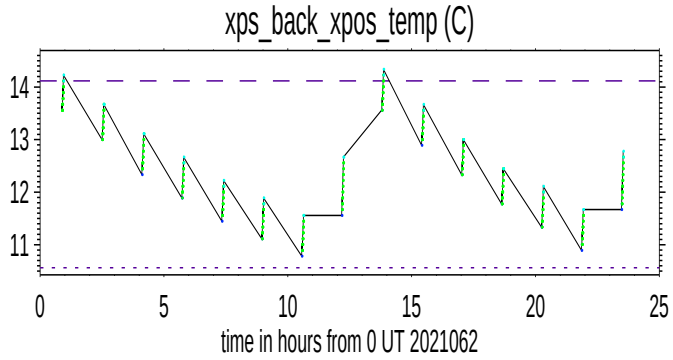
time in hours from 0 UT 2021062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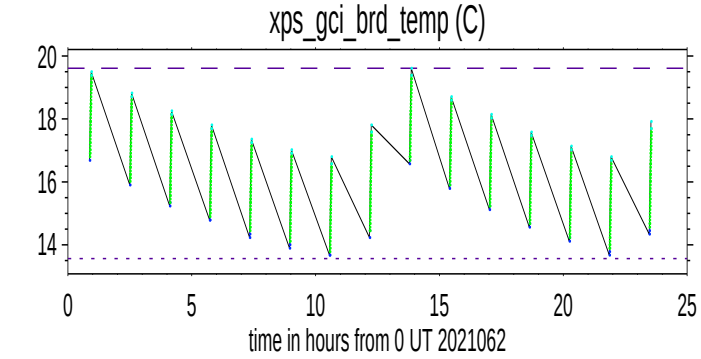
25
time in hours from 0 UT 2021062


xps_gci_brd_temp (C)
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10
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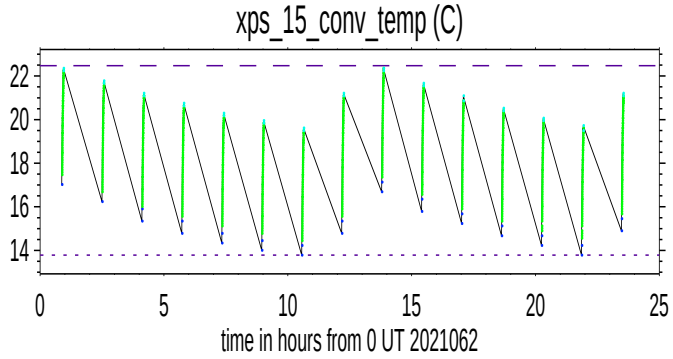
time in hours from 0 UT 2021062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0
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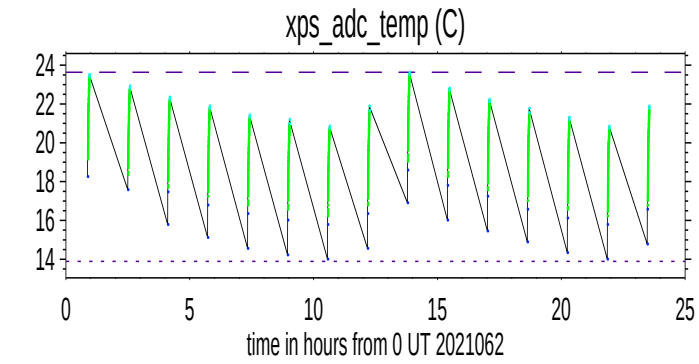
10
15
20
25
time in hours from 0 UT 2021062


xps_adc_temp (C)
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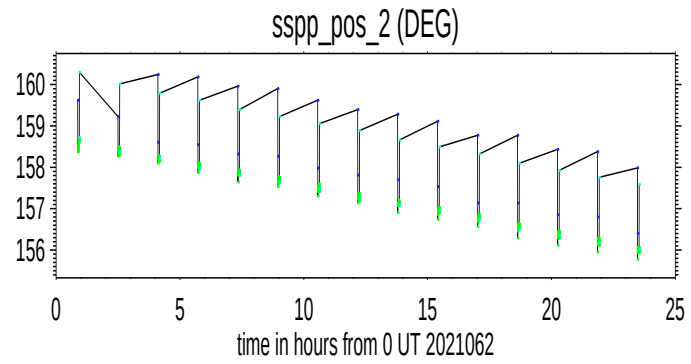
25
time in hours from 0 UT 2021062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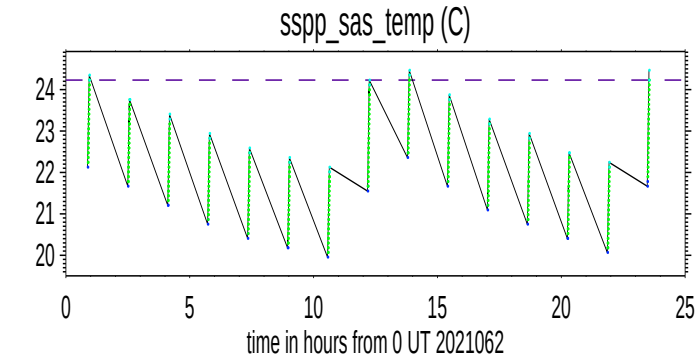
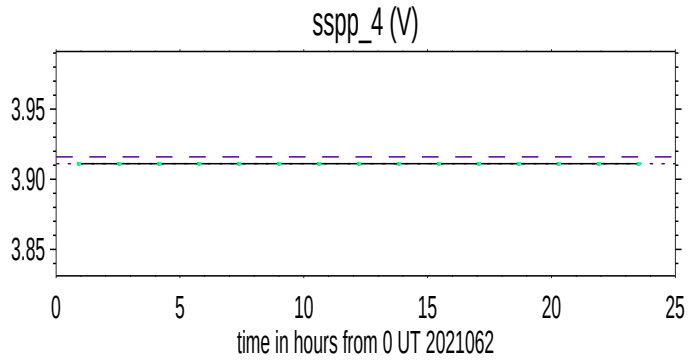
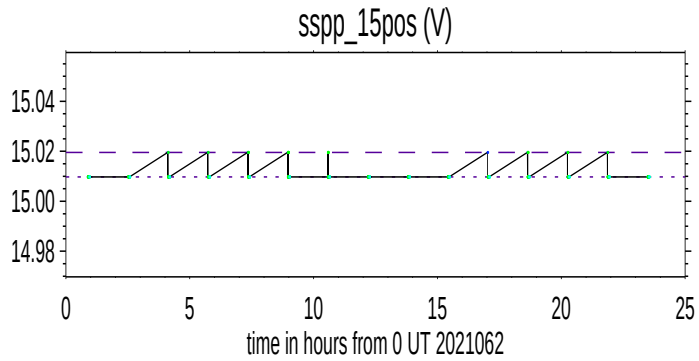
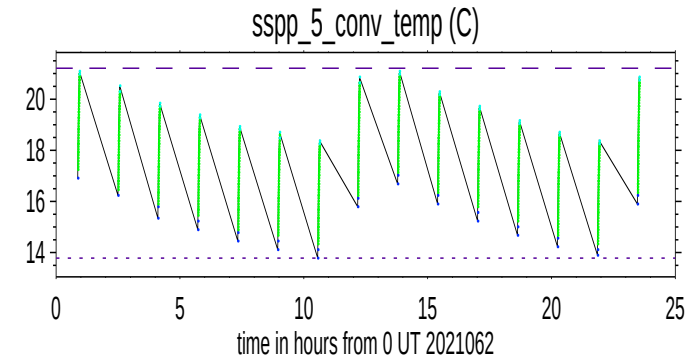
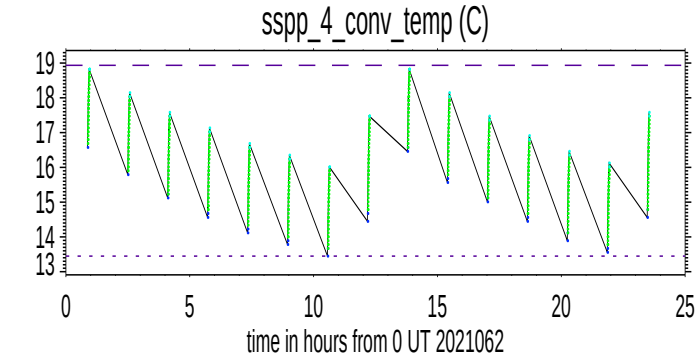
160
159
158
157
156
0
5
10
15
20
25
time in hours from 0 UT 2021062

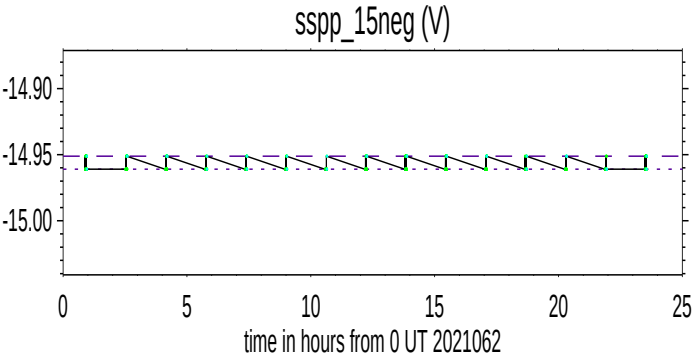

sspp_sas_temp (C)
24
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2021062

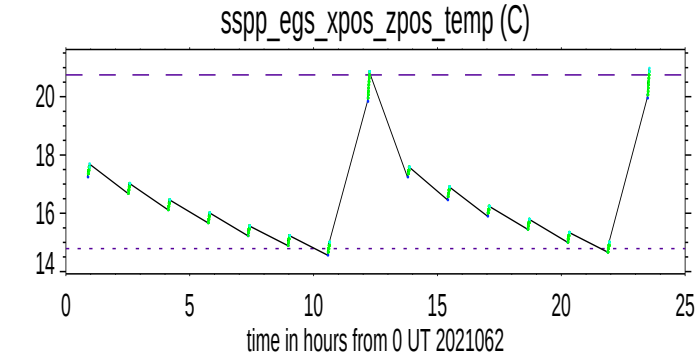

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021062

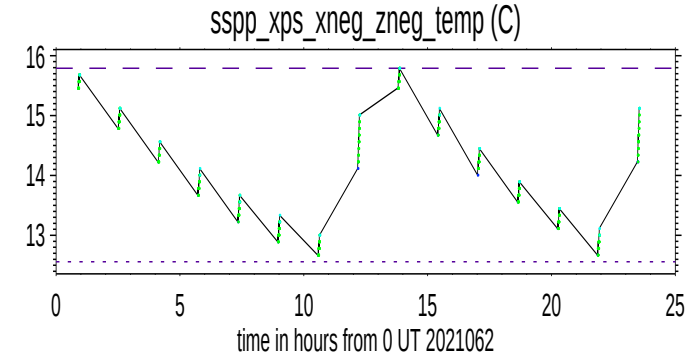

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2021062

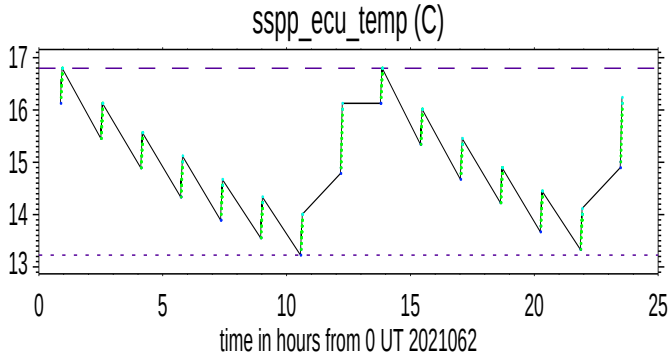

sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021062

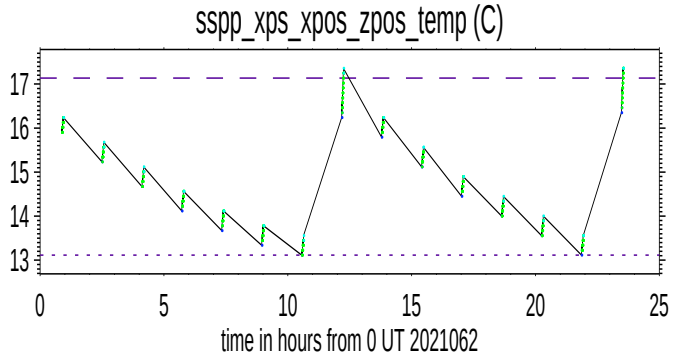

sspp_4_conv_temp (C)
19
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021062

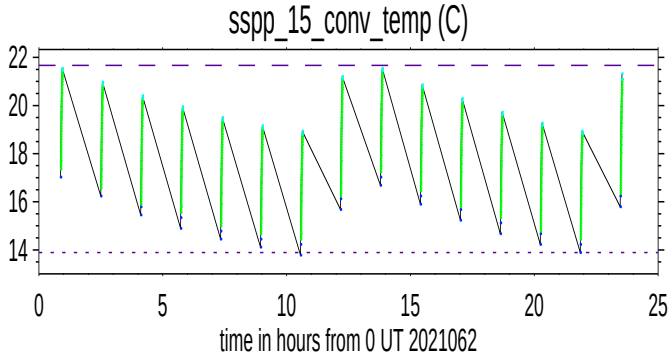

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021062

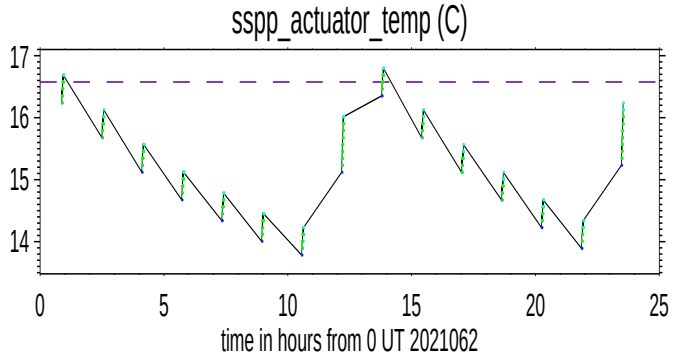

sspp_egs_xpos_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021062

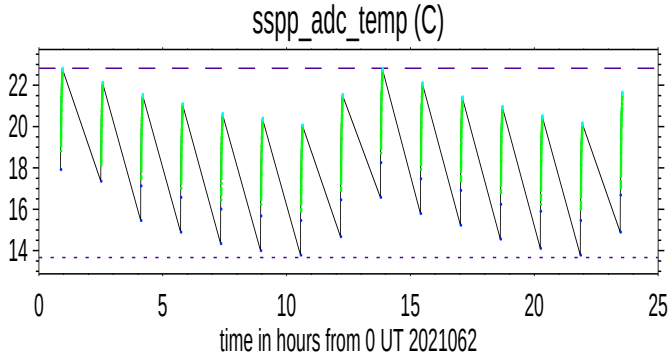

sspp_xps_xneg_zneg_temp (C)
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021062

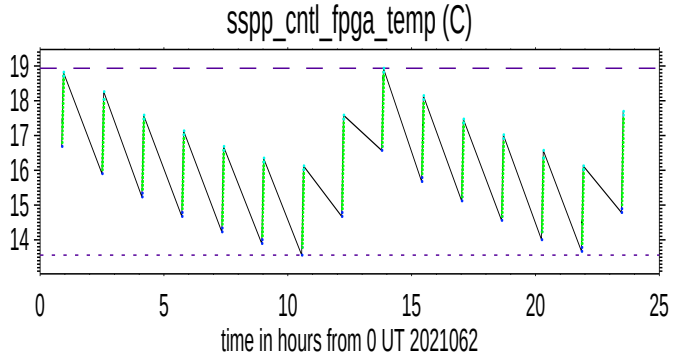

sspp_ecu_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021062

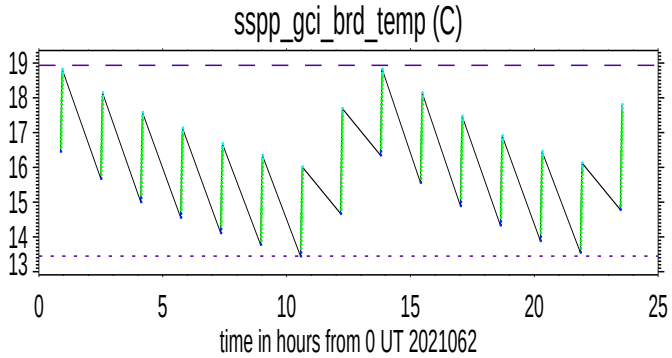

sspp_xps_xpos_zpos_temp (C)
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021062

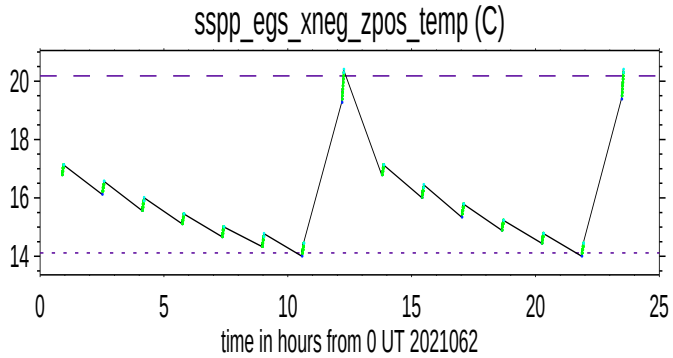

sspp_15_conv_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021062

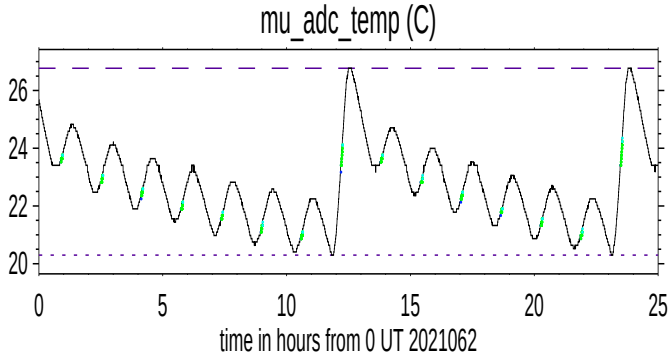

sspp_actuator_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021062

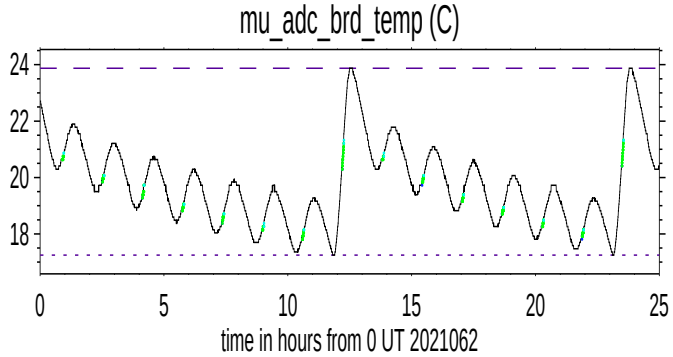

sspp_adc_temp (C)
22
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021062

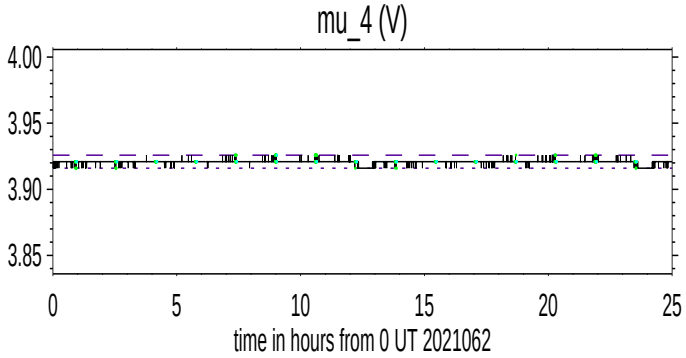

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2021062

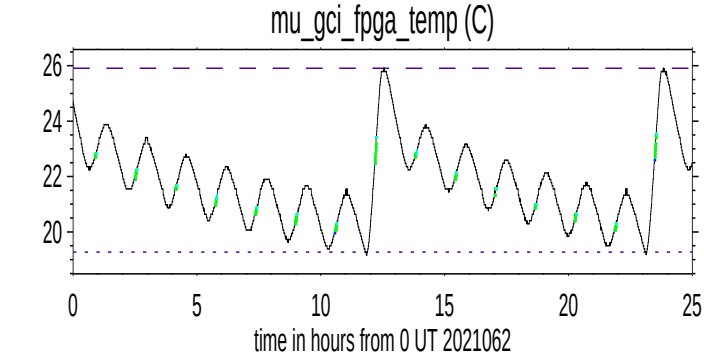

sspp_gci_brd_temp (C)
19
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2021062

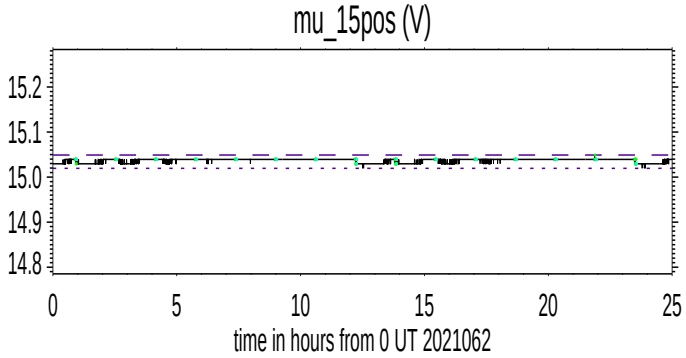

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2021062

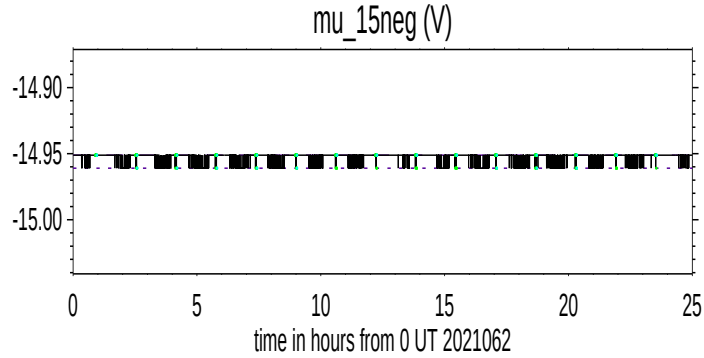

mu_adc_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021062

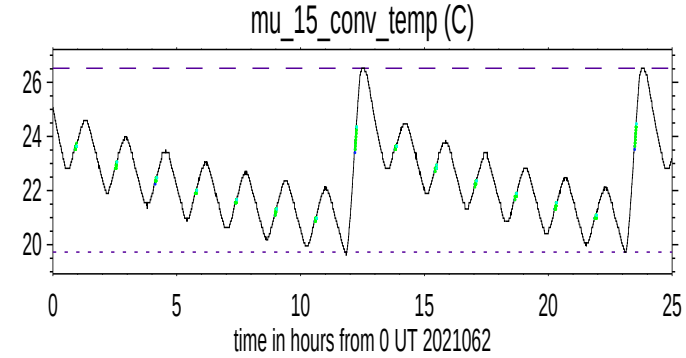

mu_adc_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021062

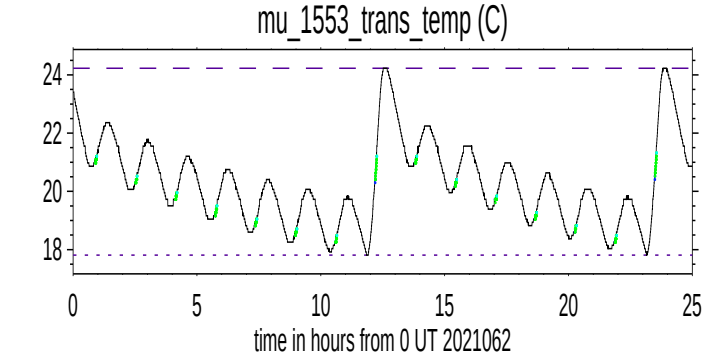

mu_4 (V)
4.00
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2021062

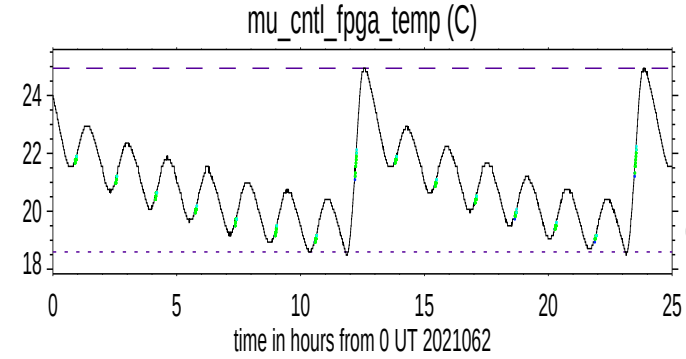

mu_gci_fpga_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021062

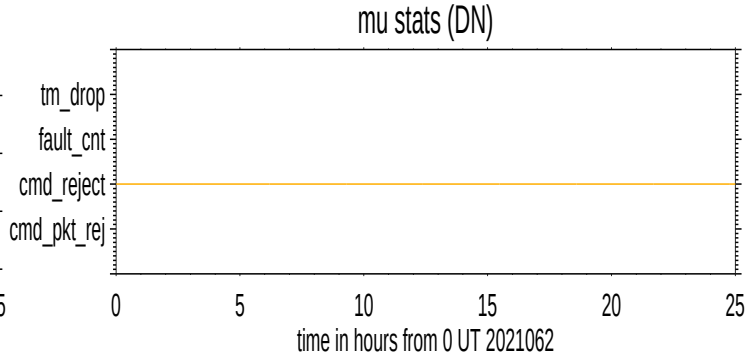

mu_15pos (V)
15.2
15.1
15.0
14.9
14.8
0
5
10
15
20
25
time in hours from 0 UT 2021062

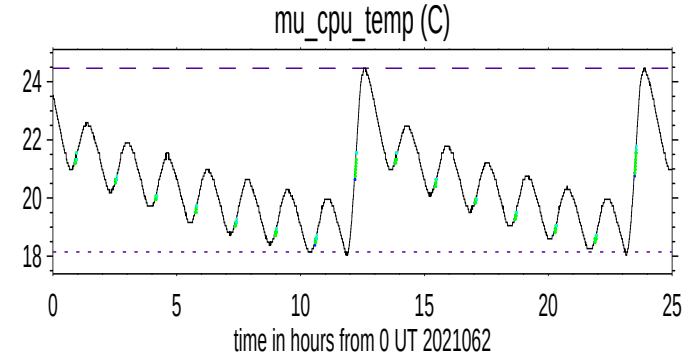

mu_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2021062

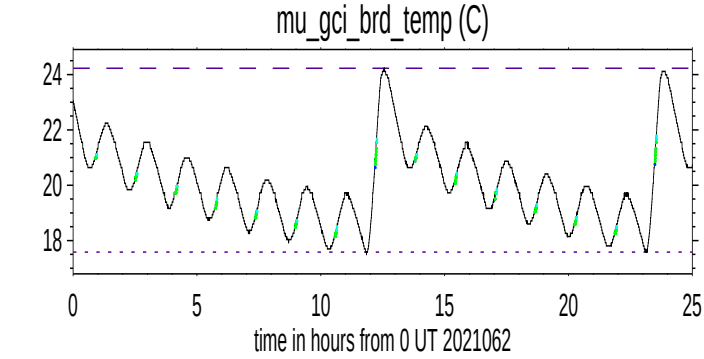

mu_15_conv_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021062

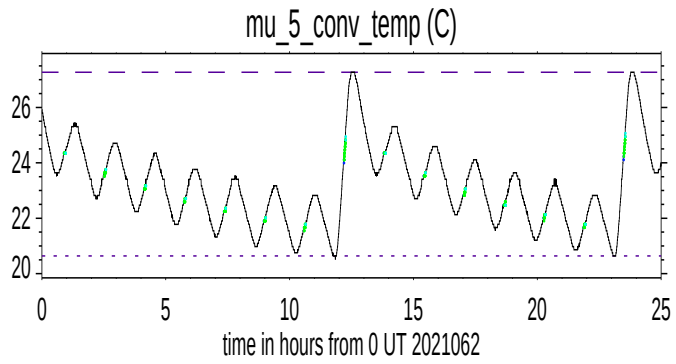

mu_1553_trans_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021062

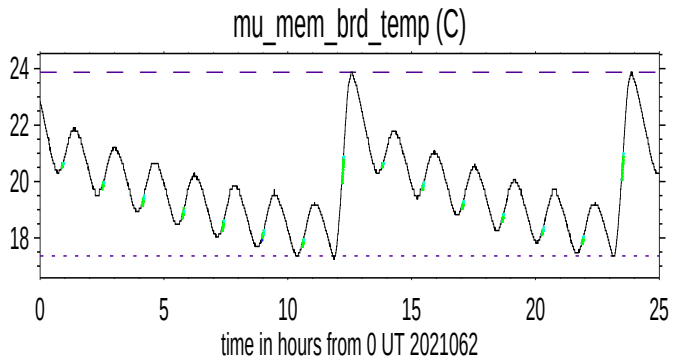

mu_cntl_fpga_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021062

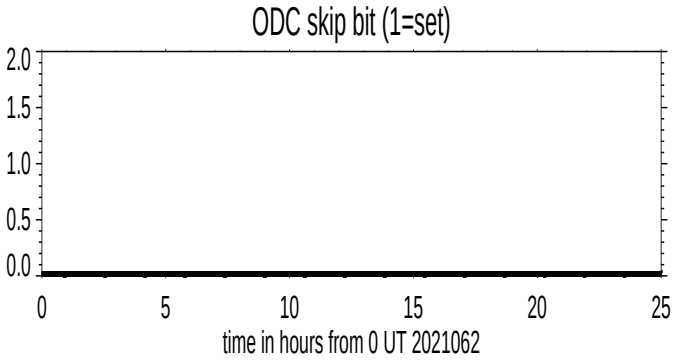

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0
5
10
15
20
25
time in hours from 0 UT 2021062

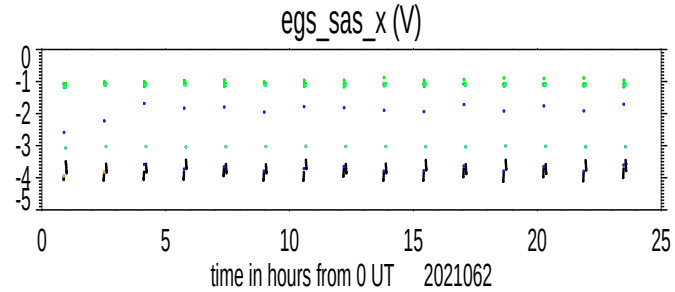

mu_cpu_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021062

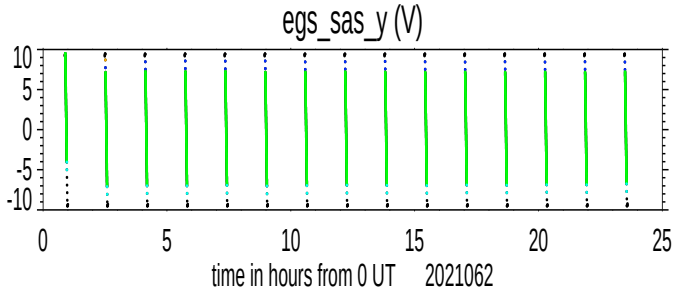

mu_gci_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021062

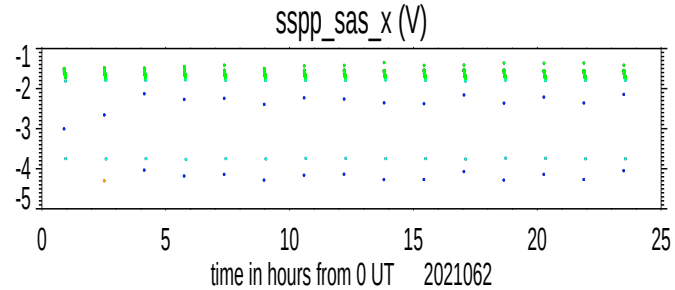

mu_5_conv_temp (C)
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2021062

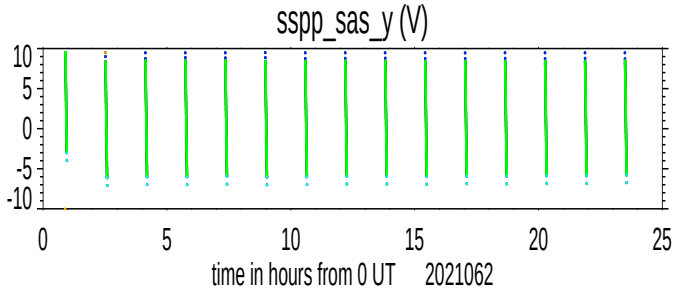

mu_mem_brd_temp (C)
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2021062

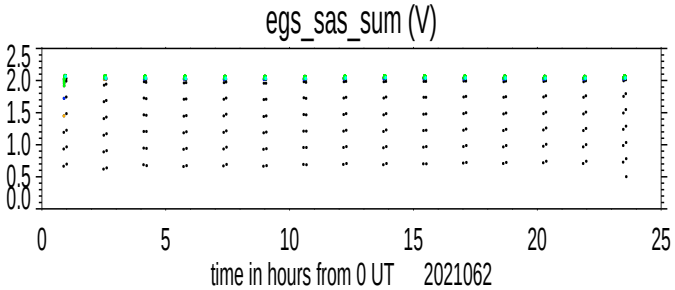

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2021062

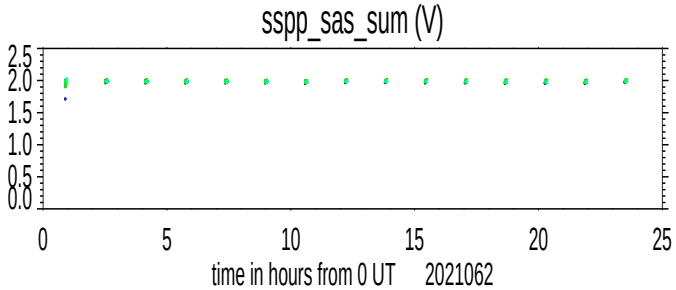

egs_sas_x (V)
time in hours from 0 UT 2021062

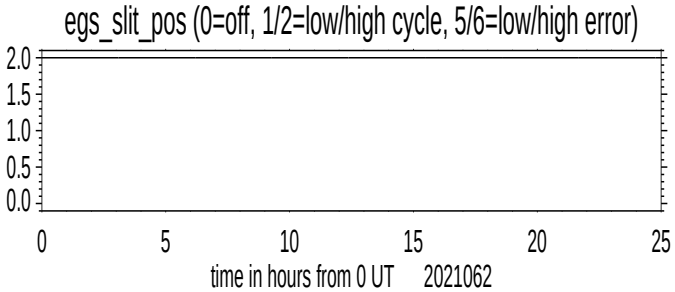

egs_sas_y (V)
time in hours from 0 UT 2021062

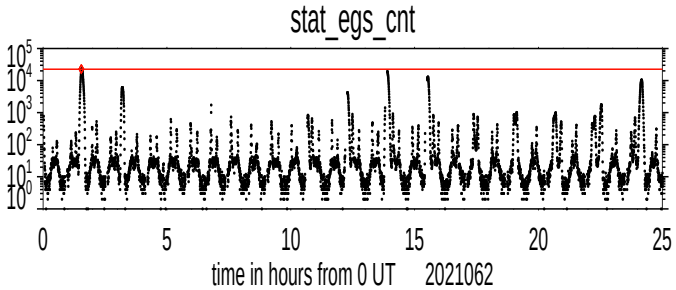

sspp_sas_x (V)
time in hours from 0 UT 2021062

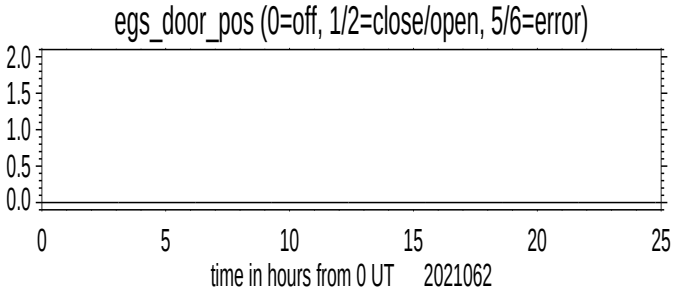

sspp_sas_y (V)
time in hours from 0 UT 2021062

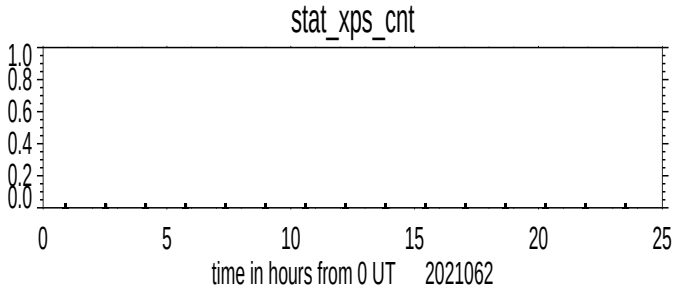

egs_sas_sum (V)
time in hours from 0 UT 2021062

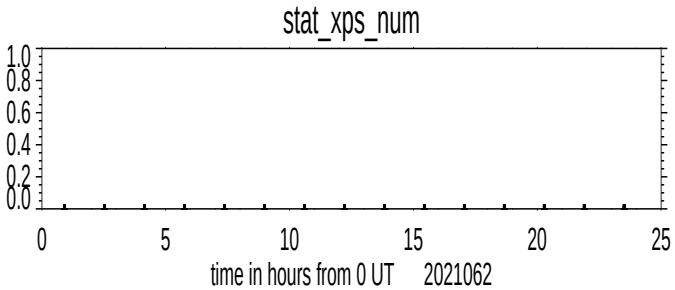

sspp_sas_sum (V)
time in hours from 0 UT 2021062

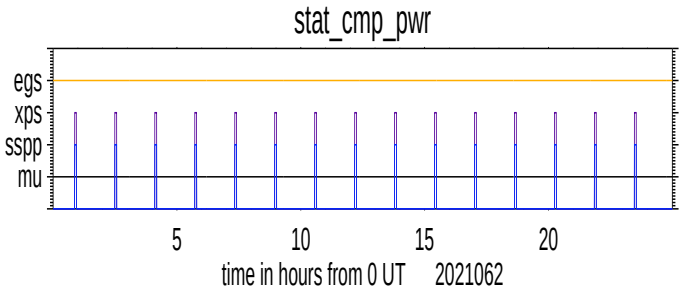

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2021062


stat_egs_cnt
time in hours from 0 UT 2021062

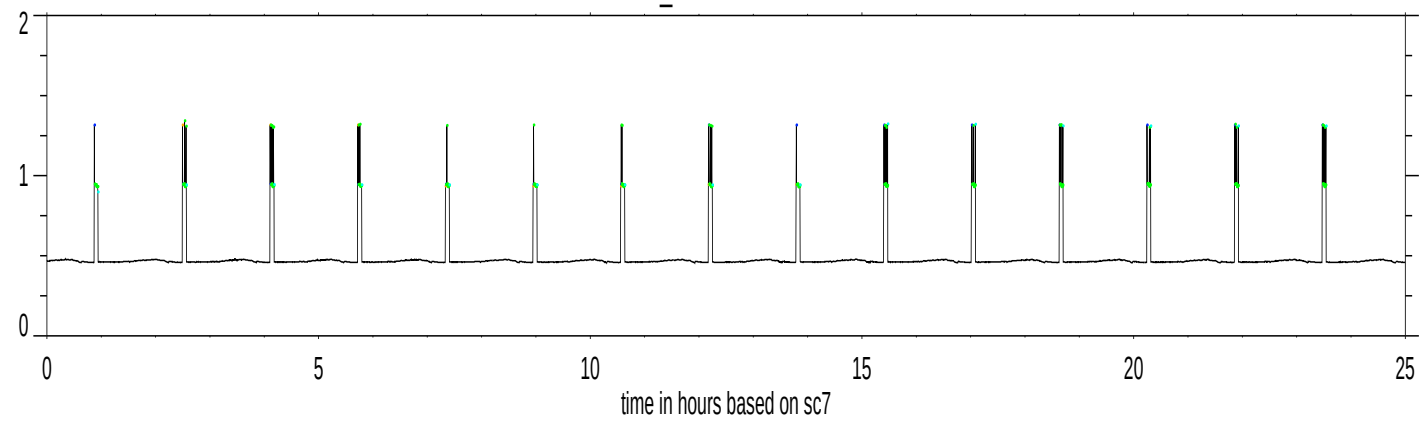

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2021062


stat_xps_cnt
time in hours from 0 UT 2021062

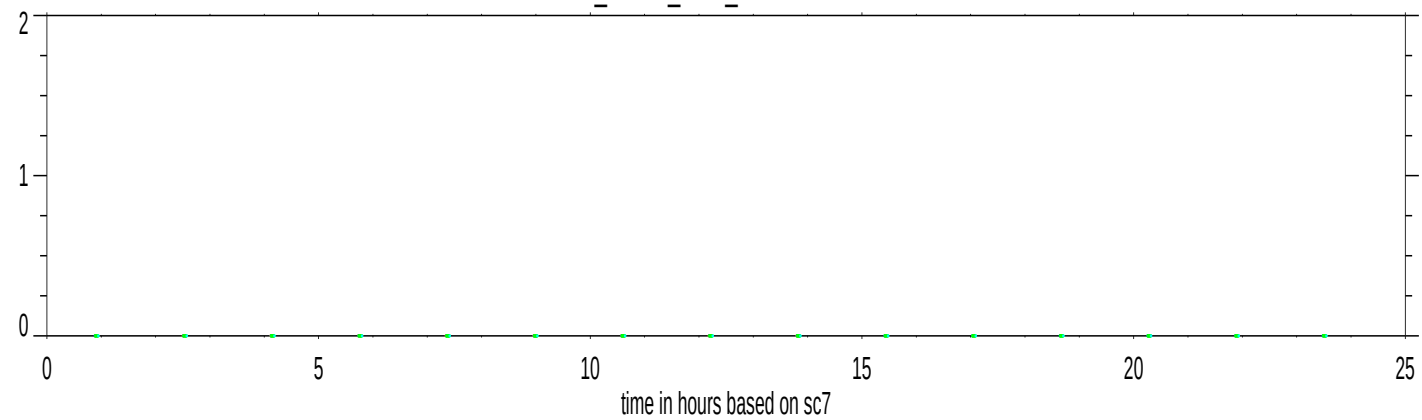

stat_xps_num
time in hours from 0 UT 2021062


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2021062

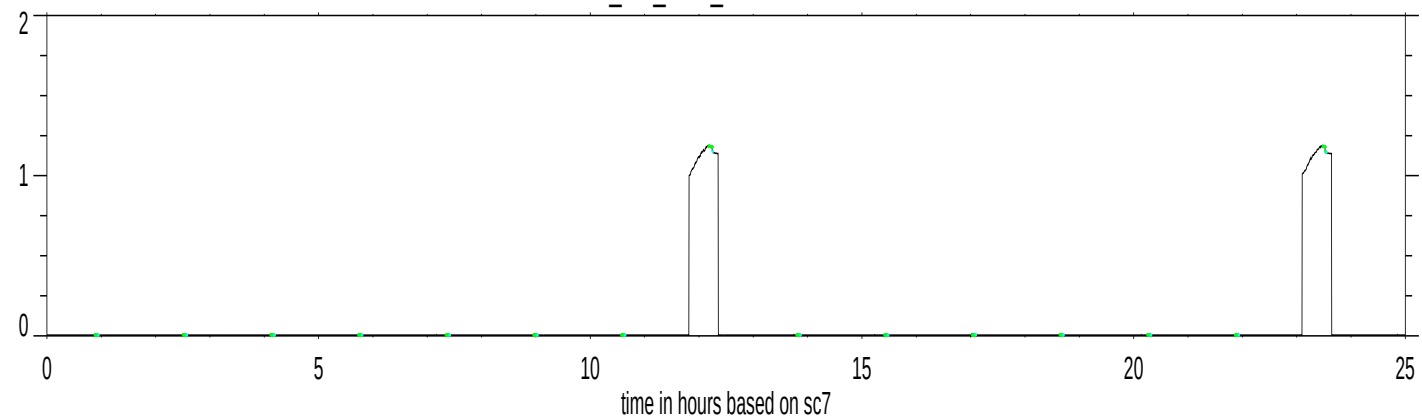
SEE_CUR 2021062



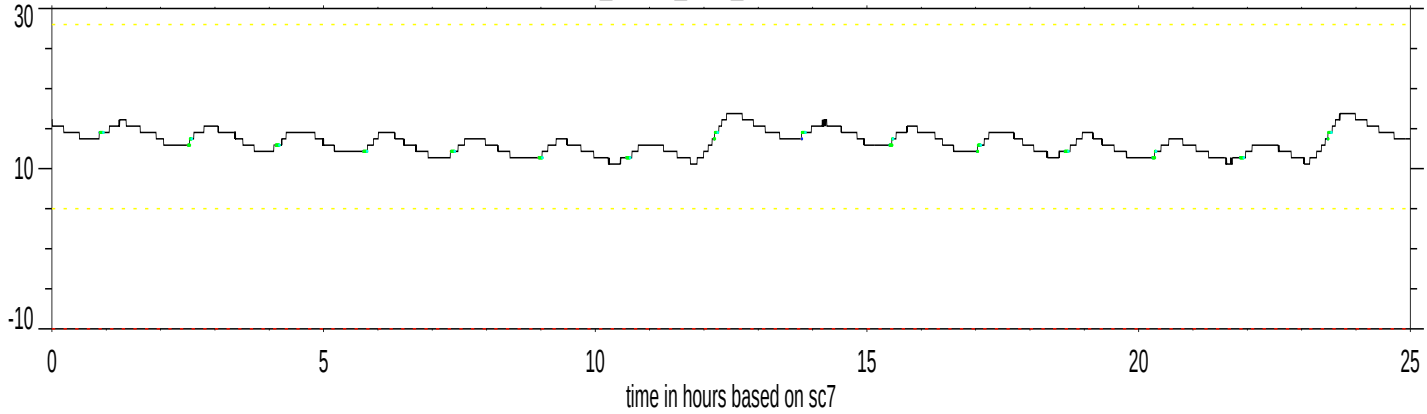
SEE_SURV_HTR_CUR 2021062



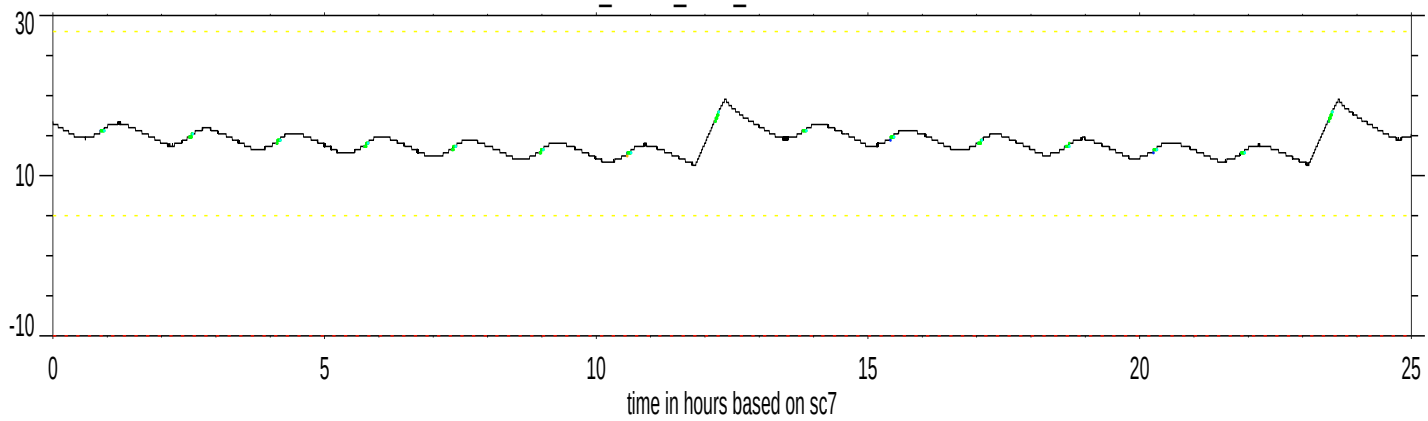
SEE_OP_HTR_CUR 2021062



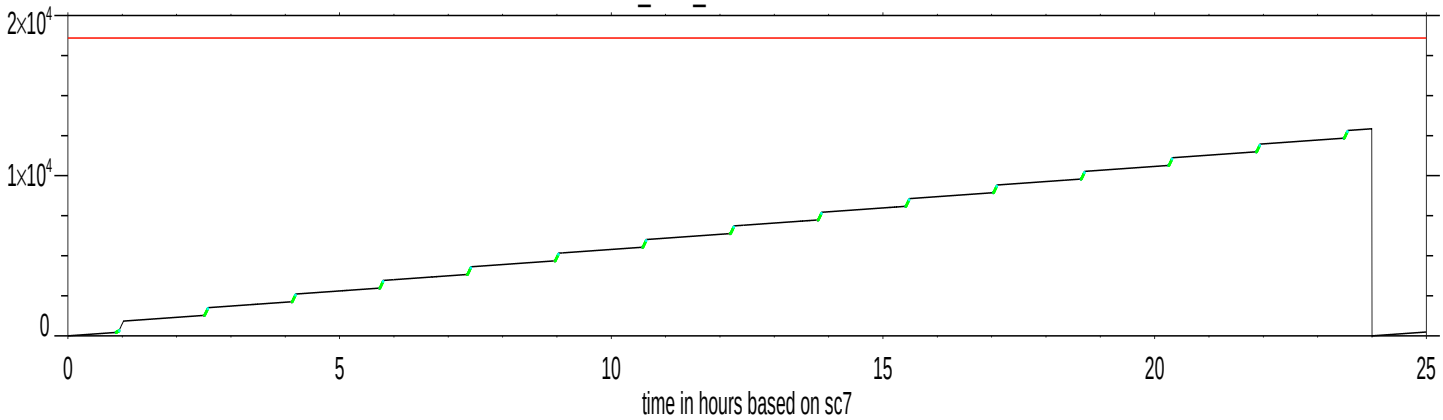
SSPP_BHND_XPS_TEMP 2021062



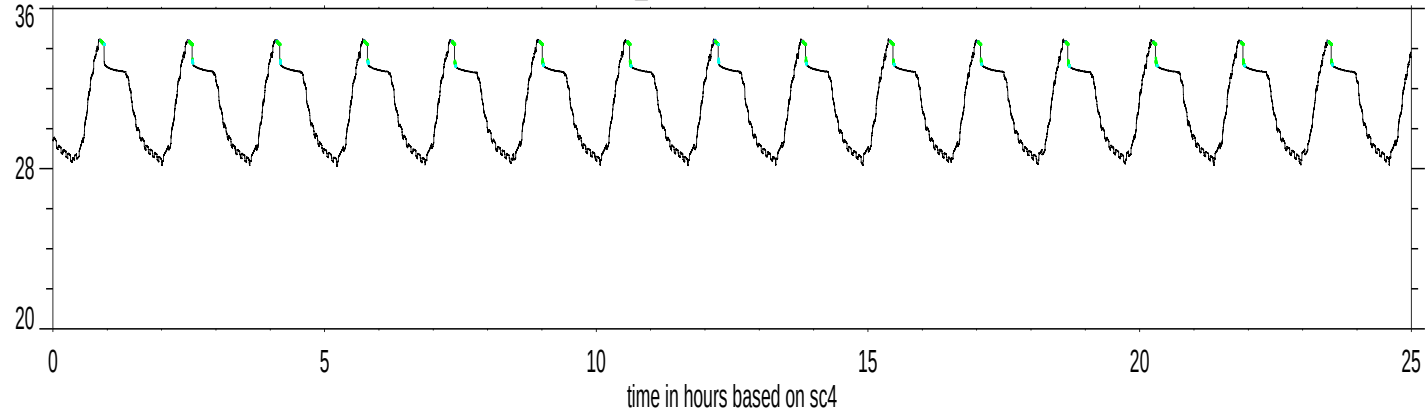
SSPP_BHND_MTR_TEMP 2021062



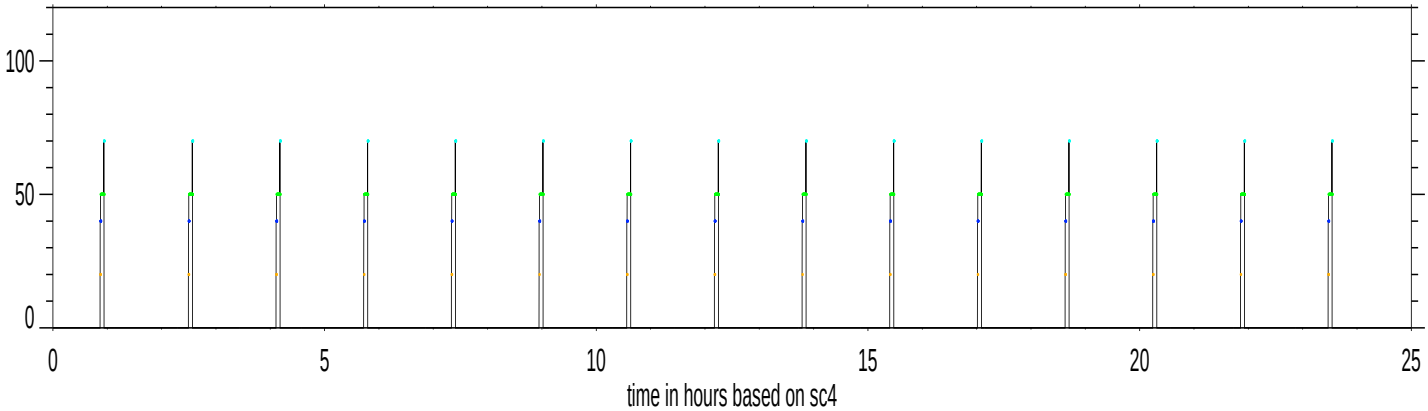
SEE_PKT_COUNT 2021062

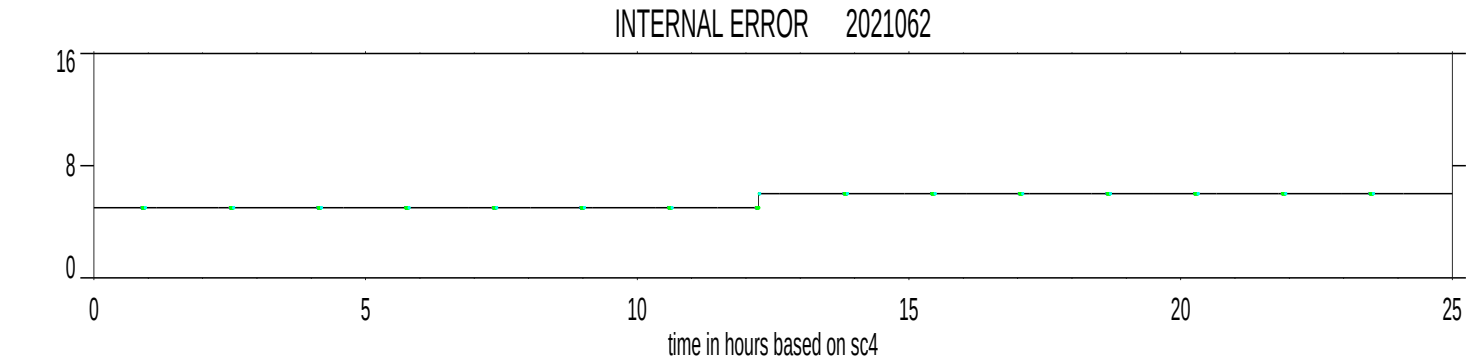


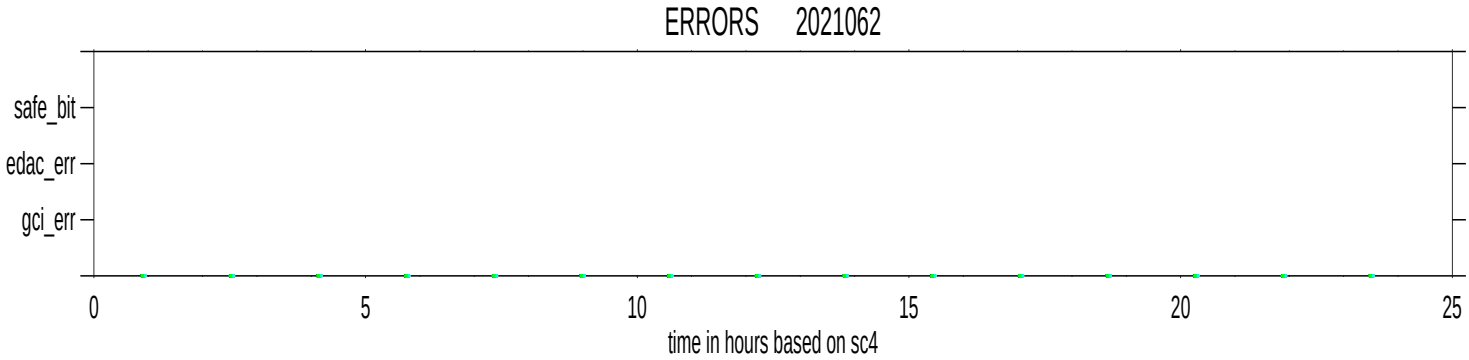
BUS_VOLTAGE 2021062

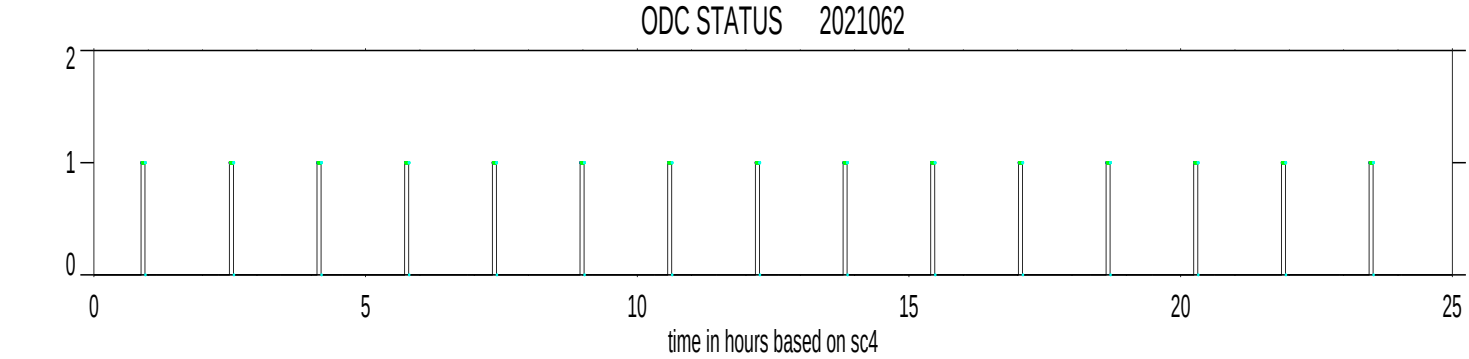


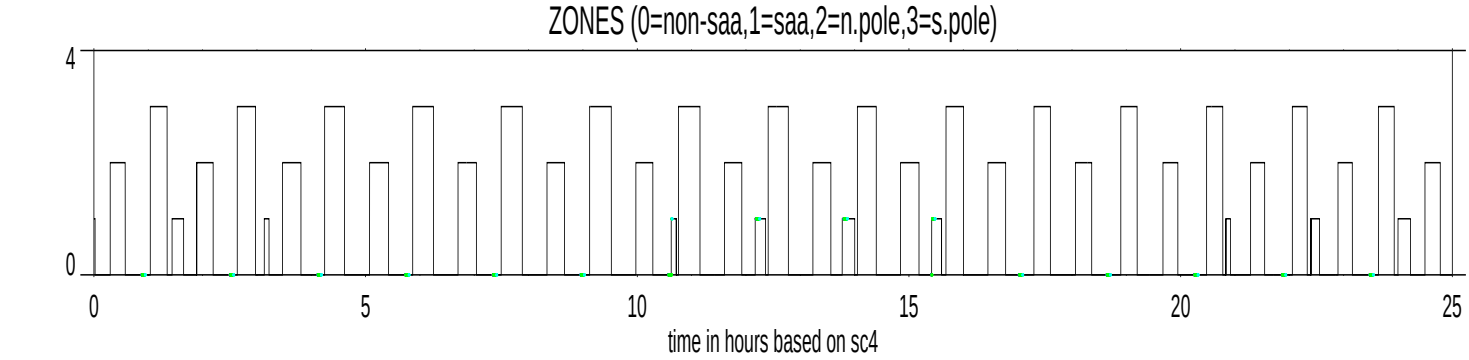
SEE_MU Operational Mode 2021062

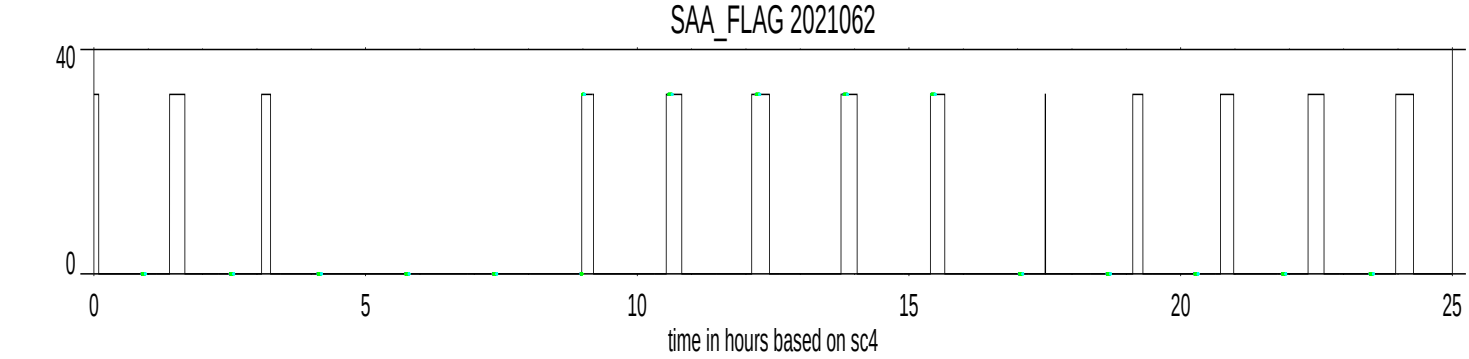


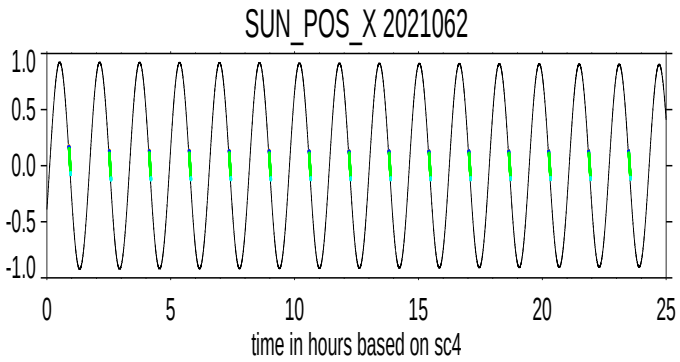

INTERNAL ERROR 2021062
16
8
0
0
5
10
15
20
25
time in hours based on sc4

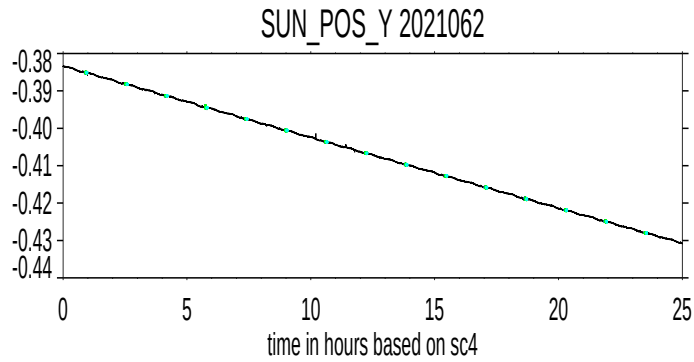

ERRORS 2021062
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

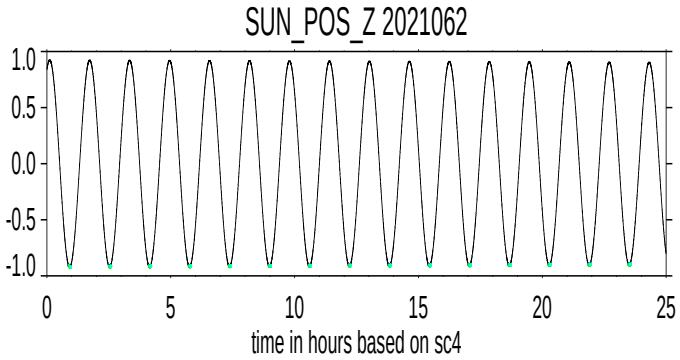

ODC STATUS 2021062
2
1
0
0
5
10
15
20
25
time in hours based on sc4

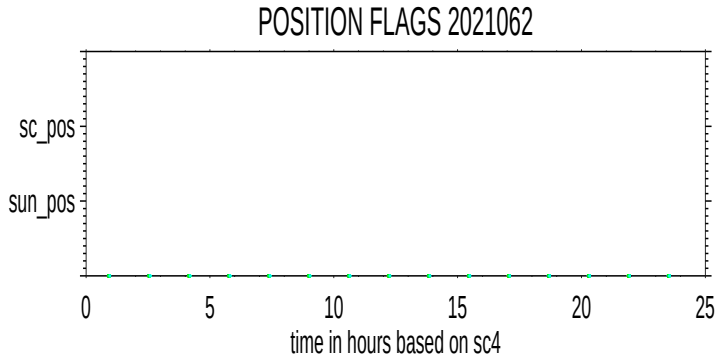

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

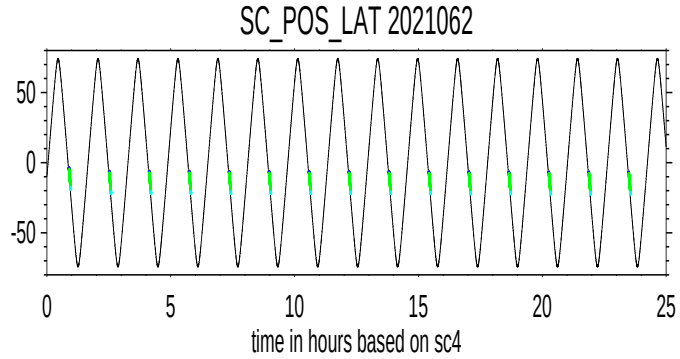

SAA_FLAG 2021062
40
0
0
5
10
15
20
25
time in hours based on sc4

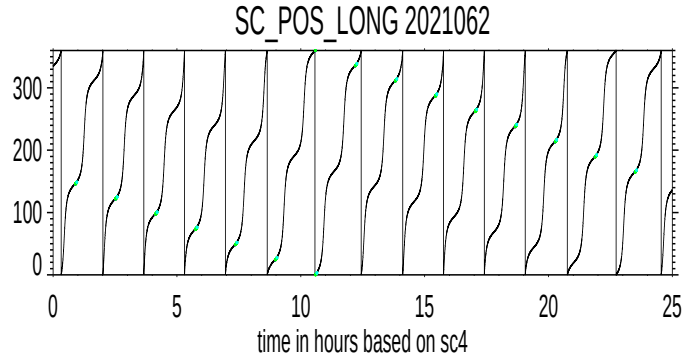

SUN_POS_X 2021062
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

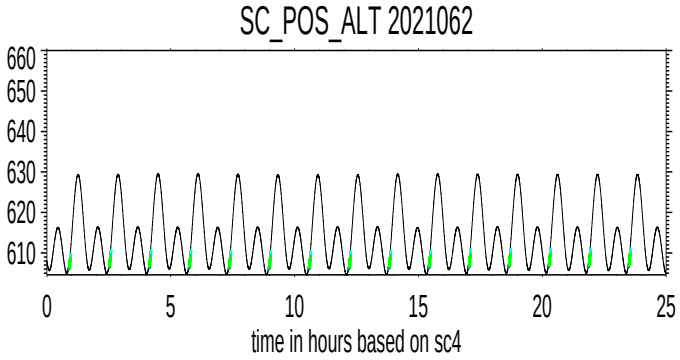

SUN_POS_Y 2021062
-0.38
-0.39
-0.40
-0.41
-0.42
-0.43
-0.44
0
5
10
15
20
25
time in hours based on sc4

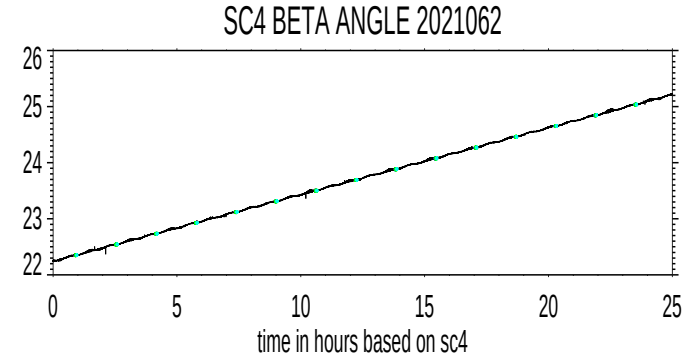

SUN_POS_Z 2021062
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2021062
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2021062
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2021062
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2021062
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2021062
26
25
24
23
22
0
5
10
15
20
25
time in hours based on sc4