```
Information for      2020009
02:10:00.875: hk: 1 cmd pkt accepted   cmd = NOP ISSUE or NO_OP ISSUE
24:44:44.377: hk: 6 cmd pkt accepted   cmd = ODCs Loaded
24:44:59.377: hk: 6 cmd pkt accepted   cmd = ODCs Loaded
24:45:14.377: hk: 6 cmd pkt accepted   cmd = ODCs Loaded
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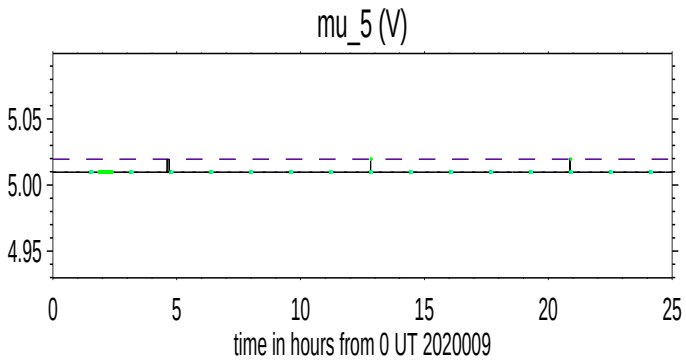
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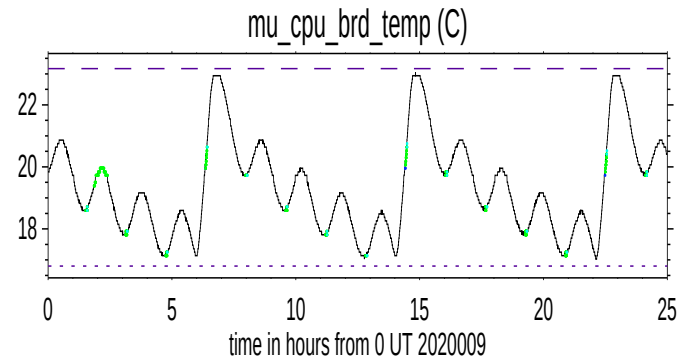
5.05
5.00
4.95
0
5
10
15
20
25
time in hours from 0 UT 2020009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20
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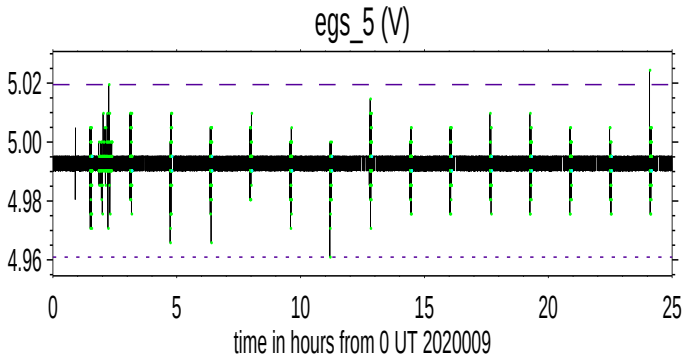
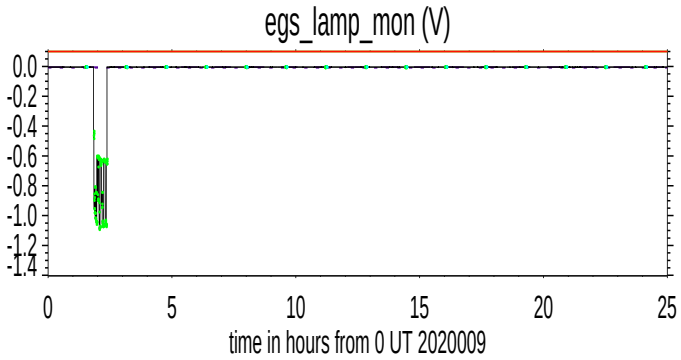
time in hours from 0 UT 2020009


egs_5 (V)
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_lamp_mon (V)
0.0
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
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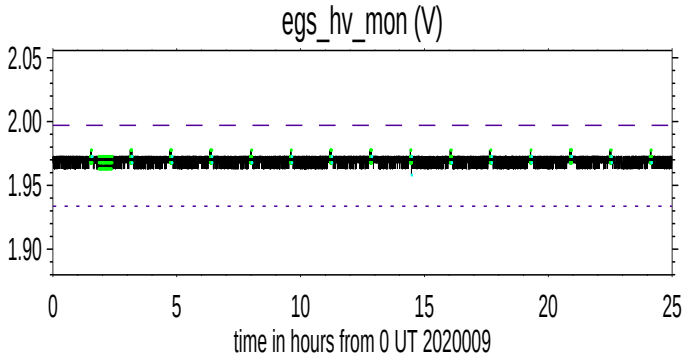
15
20
25
time in hours from 0 UT 2020009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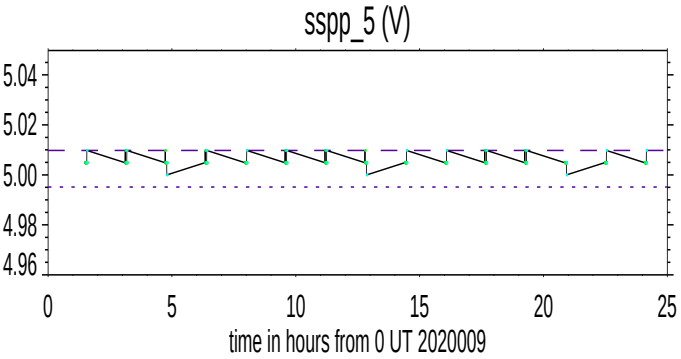
2.00
1.95
1.90
0
5
10
15
20
25
time in hours from 0 UT 2020009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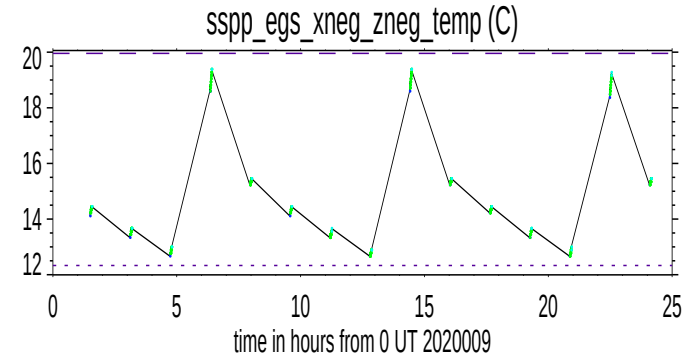
5.04
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_egs_xneg_zneg_temp (C)
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18
16
14
12
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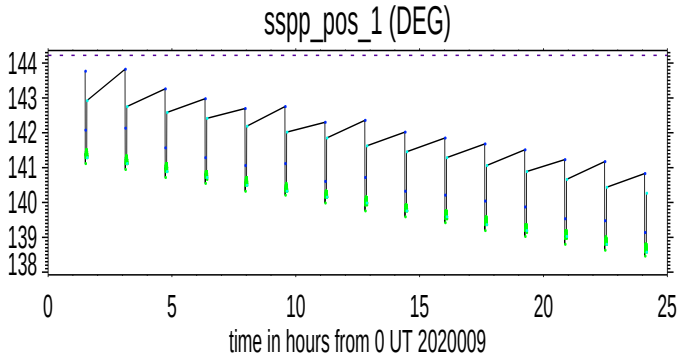
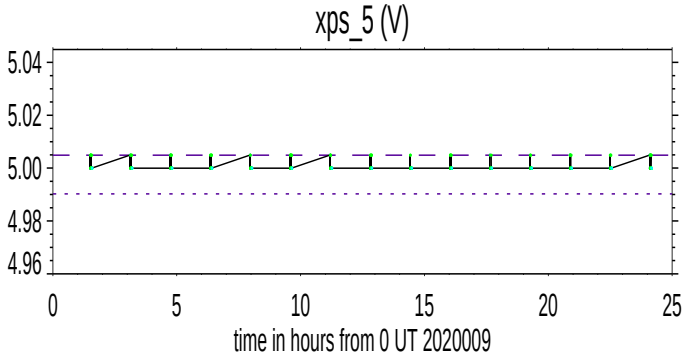
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_pos_1 (DEG)
144
143
142
141
140
139
138
0
5
10
15
20
25
time in hours from 0 UT 2020009


xps_5 (V)
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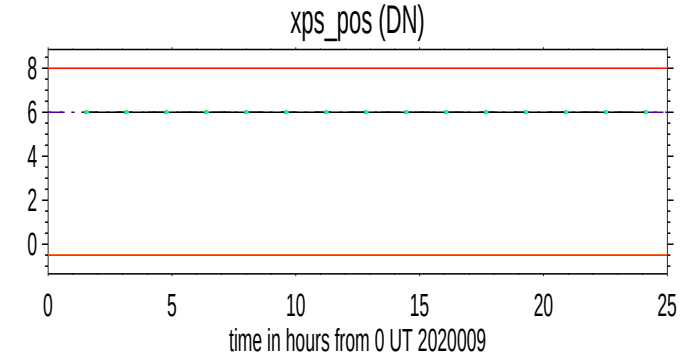
5.02
5.00
4.98
4.96
0
5
10
15
20
25
time in hours from 0 UT 2020009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6
4
2
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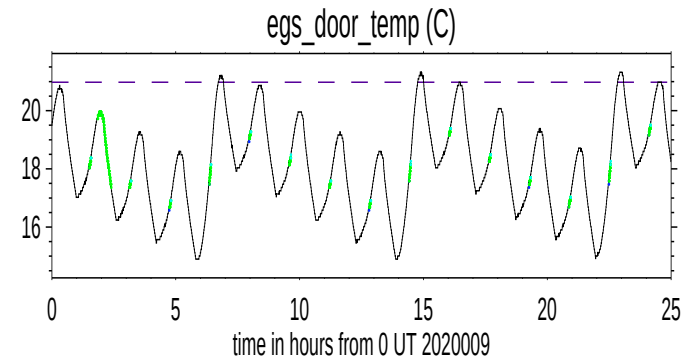
10
15
20
25
time in hours from 0 UT 2020009


egs_door_temp (C)
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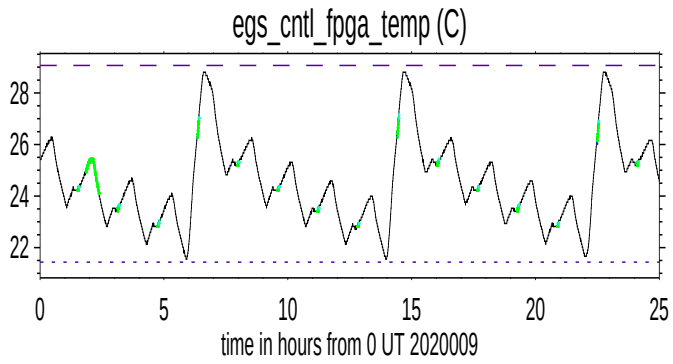
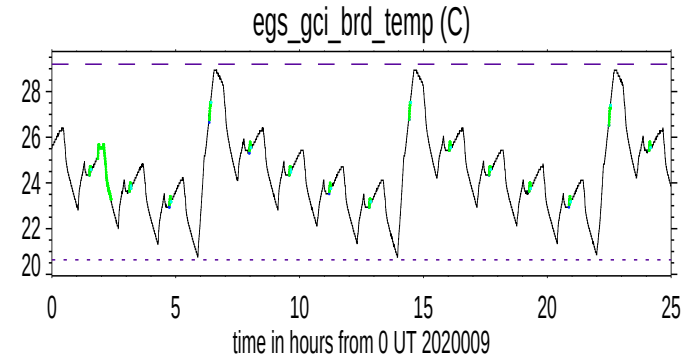
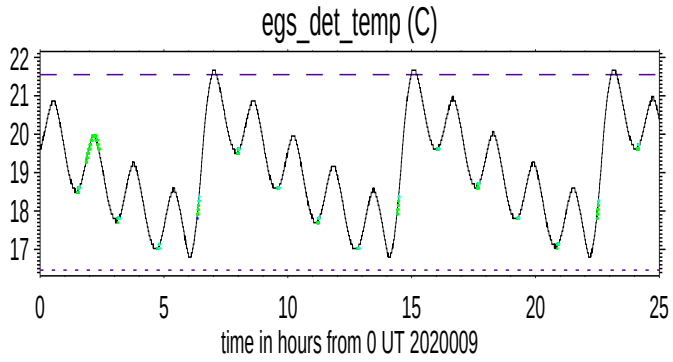
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_cntl_fpga_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_gci_brd_temp (C)
28
26
24
22
20
0
5
10
15
20
25
time in hours from 0 UT 2020009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21
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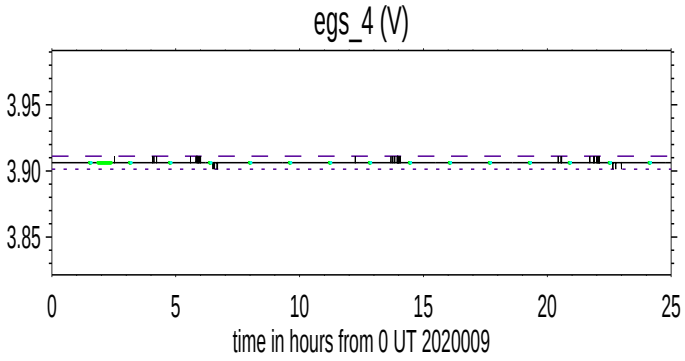
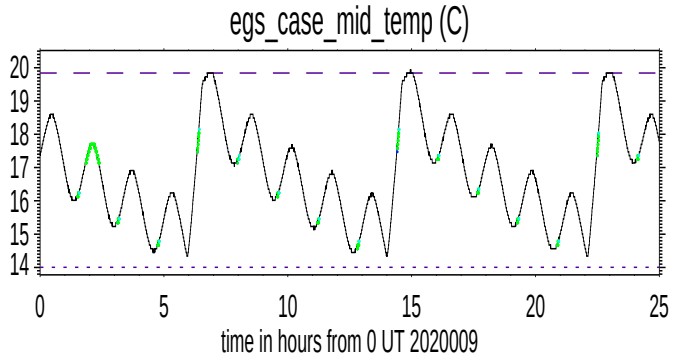
19
18
17
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_case_mid_temp (C)
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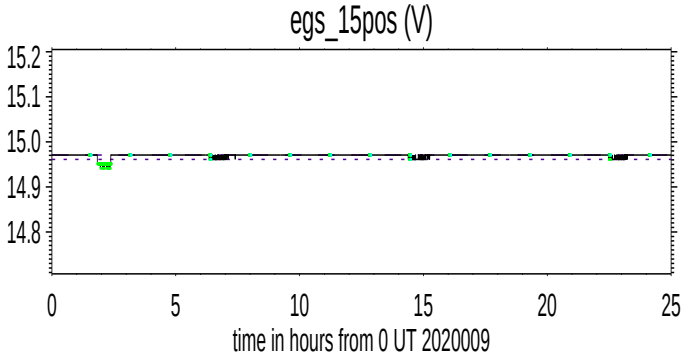
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_15pos (V)
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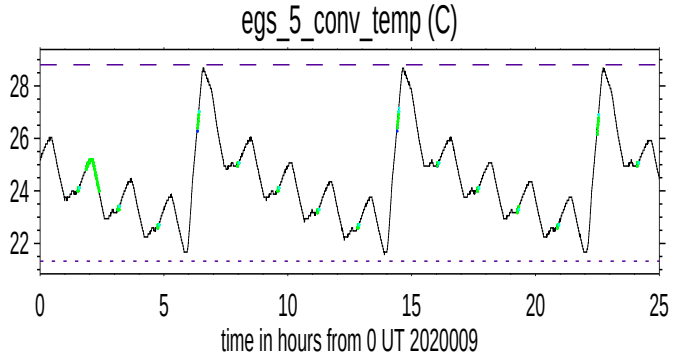
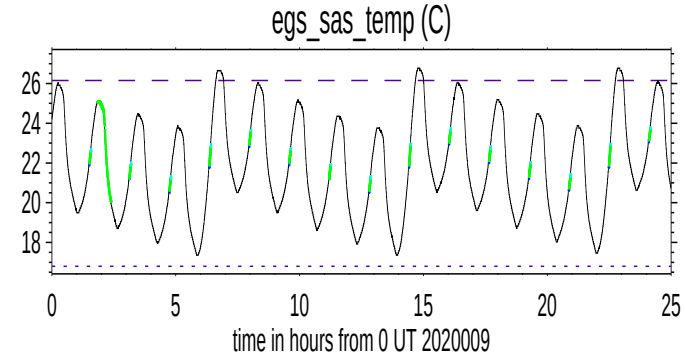
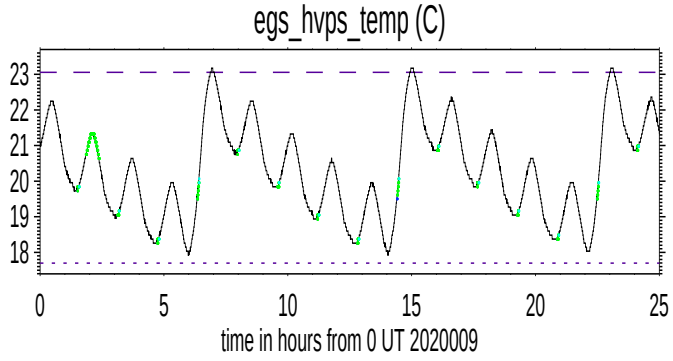
15.1
15.0
14.9
14.8
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_5_conv_temp (C)
28
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_sas_temp (C)
26
24
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020009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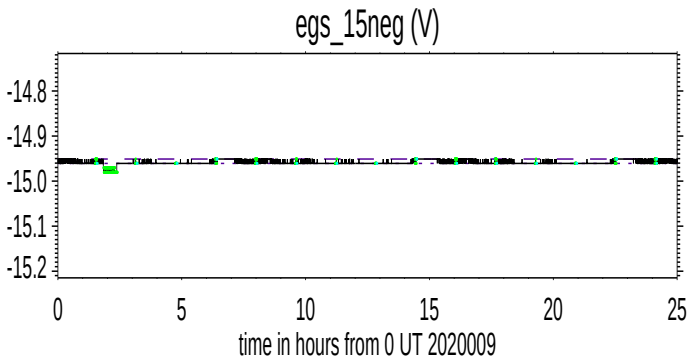
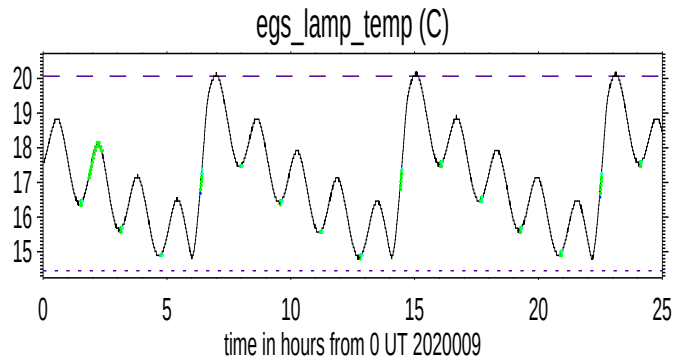
23
22
21
20
19
18
0
5
10
15
20
25
time in hours from 0 UT 2020009


egs_15neg (V)
-14.8
-14.9
-15.0
-15.1
-15.2
0 5 10 15 20 25
time in hours from 0 UT 2020009


egs_lamp_temp (C)
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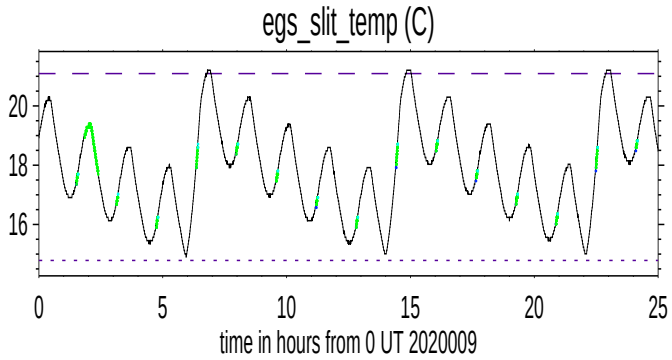
0 5 10 15 20 25
time in hours from 0 UT 2020009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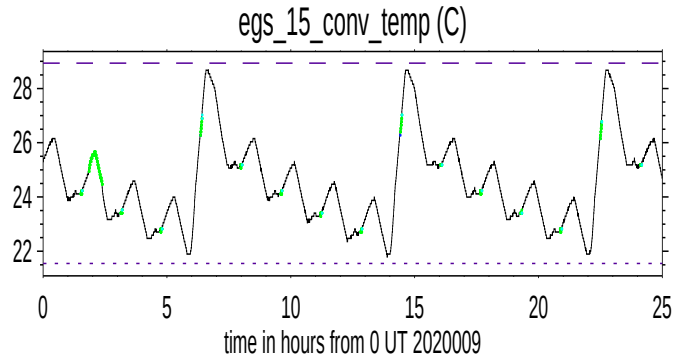
0 5 10 15 20 25
time in hours from 0 UT 2020009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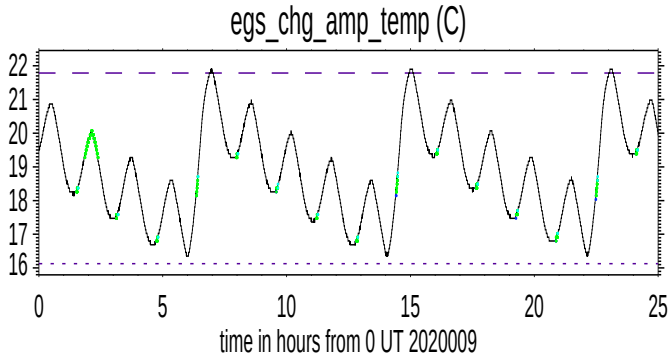
time in hours from 0 UT 2020009


egs_chg_amp_temp (C)
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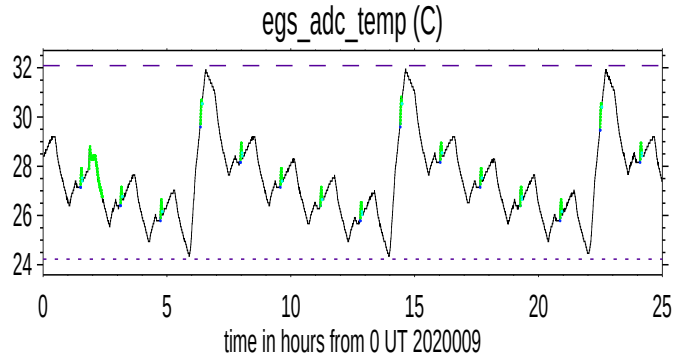
0 5 10 15 20 25
time in hours from 0 UT 2020009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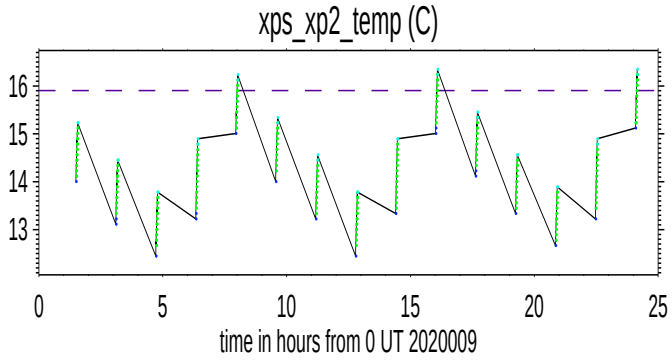
time in hours from 0 UT 2020009


xps_xp2_temp (C)
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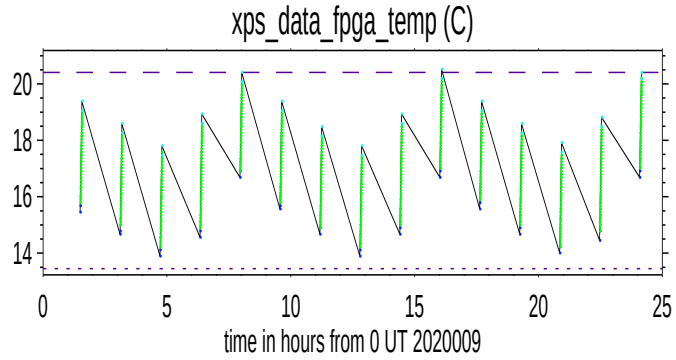
0 5 10 15 20 25
time in hours from 0 UT 2020009


xps_data_fpga_temp (C)
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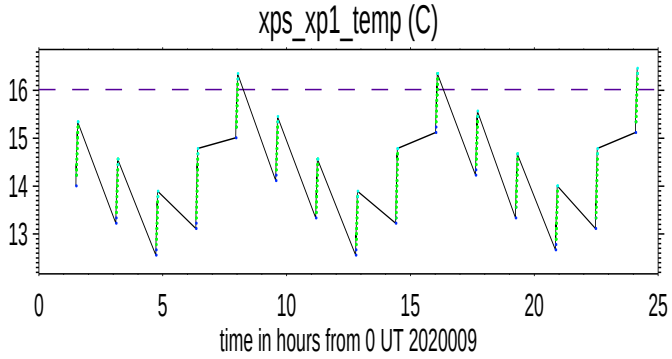
0 5 10 15 20 25
time in hours from 0 UT 2020009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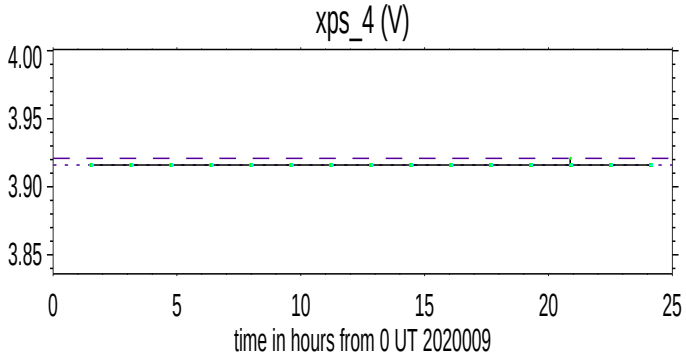
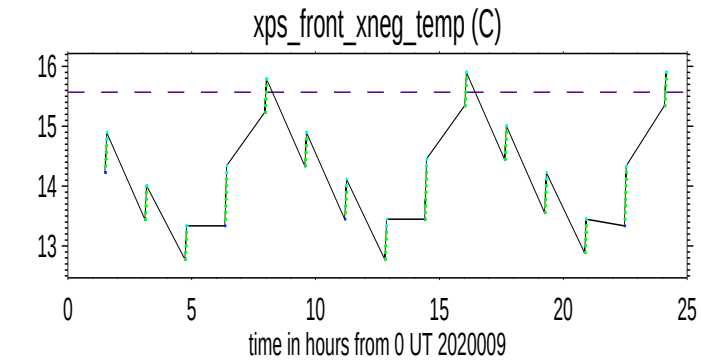
0 5 10 15 20 25
time in hours from 0 UT 2020009


xps_4 (V)
4.00 3.95 3.90 3.85
0 5 10 15 20 25
time in hours from 0 UT 2020009


xps_front_xneg_temp (C)
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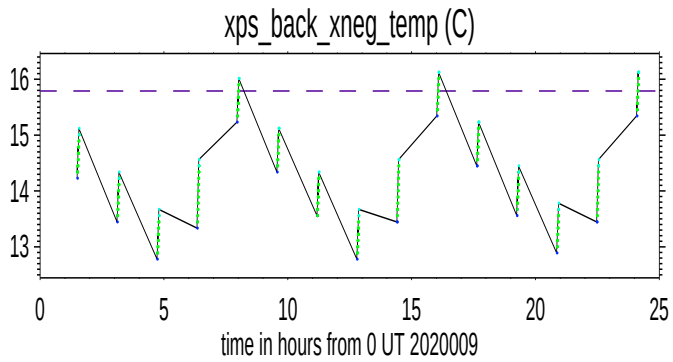
13
0
5
10
15
20
25
time in hours from 0 UT 2020009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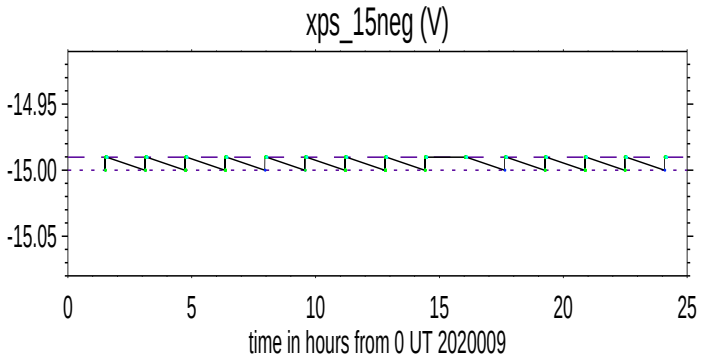
13
0
5
10
15
20
25
time in hours from 0 UT 2020009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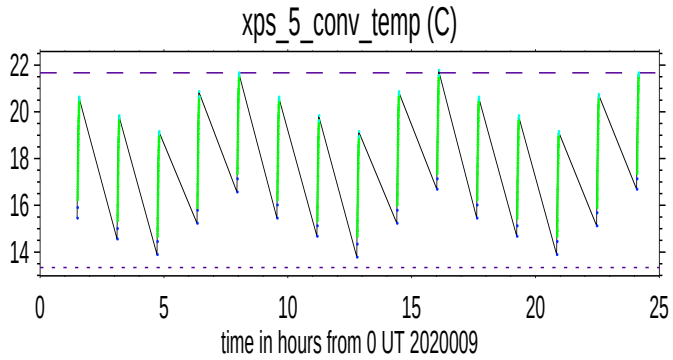
-15.05
0
5
10
15
20
25
time in hours from 0 UT 2020009


xps_5_conv_temp (C)
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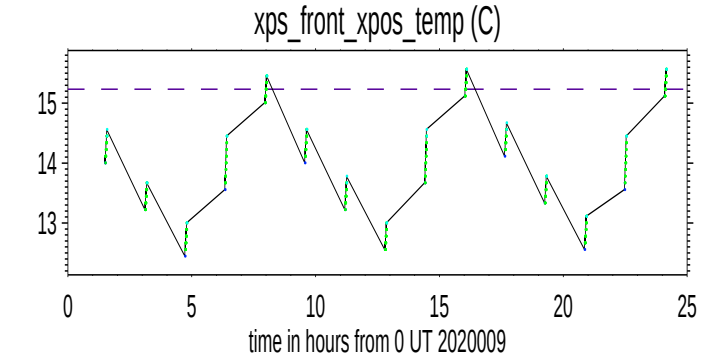
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020009


xps_front_xpos_temp (C)
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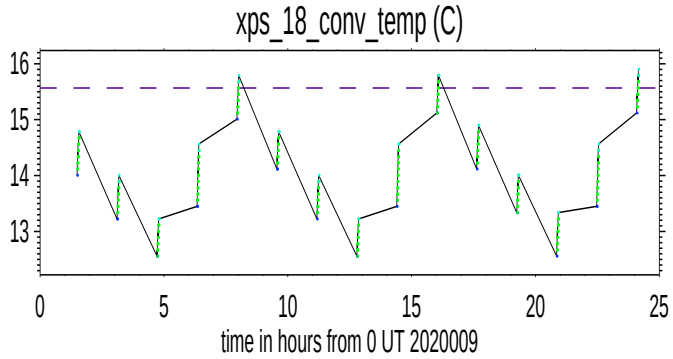
13
0
5
10
15
20
25
time in hours from 0 UT 2020009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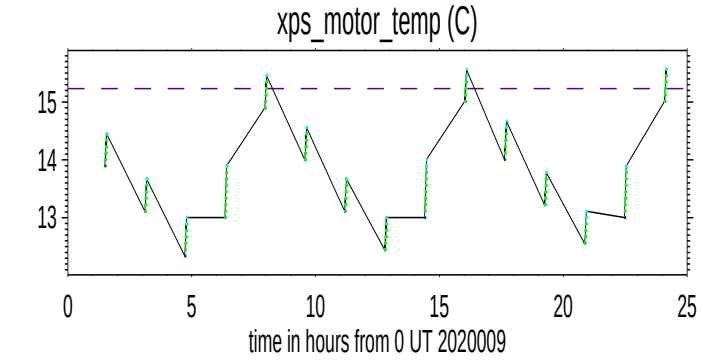
25
time in hours from 0 UT 2020009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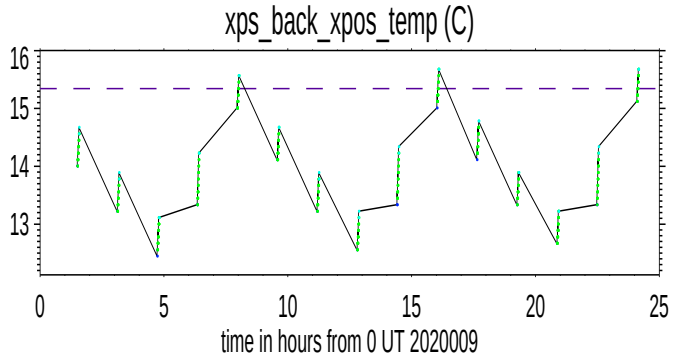
5
10
15
20
25
time in hours from 0 UT 2020009


xps_back_xpos_temp (C)
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13
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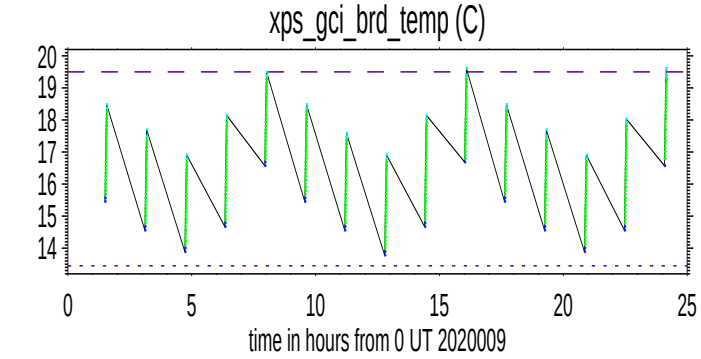
10
15
20
25
time in hours from 0 UT 2020009


xps_gci_brd_temp (C)
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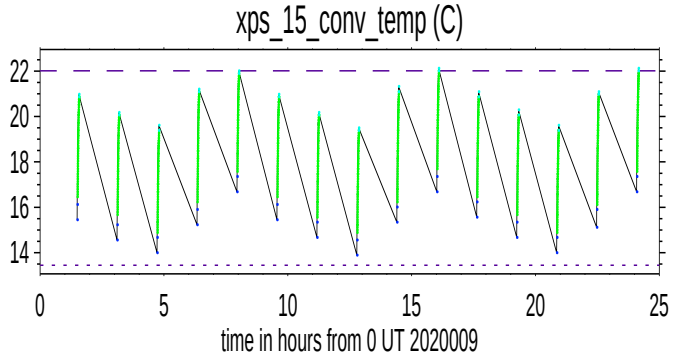
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020009


xps_15_conv_temp (C)
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20
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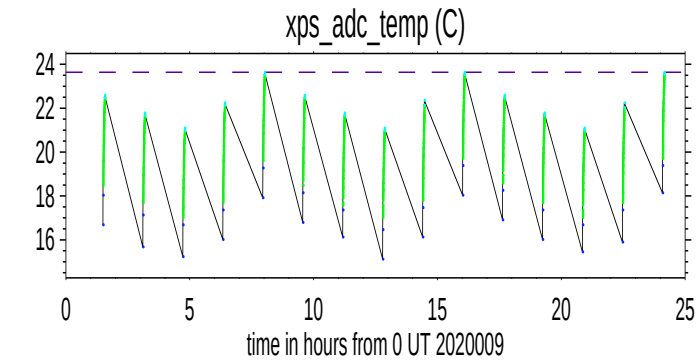
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020009


xps_adc_temp (C)
24
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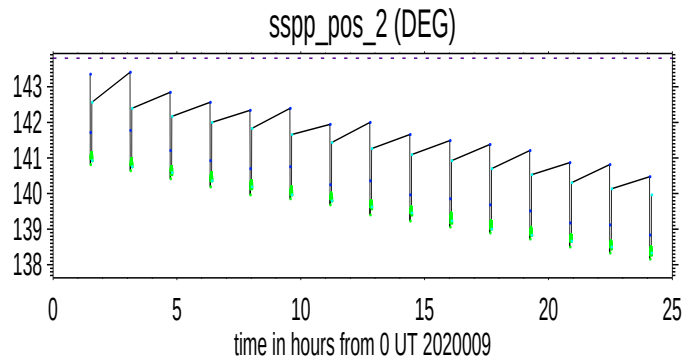
16
0
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_pos_2 (DEG)
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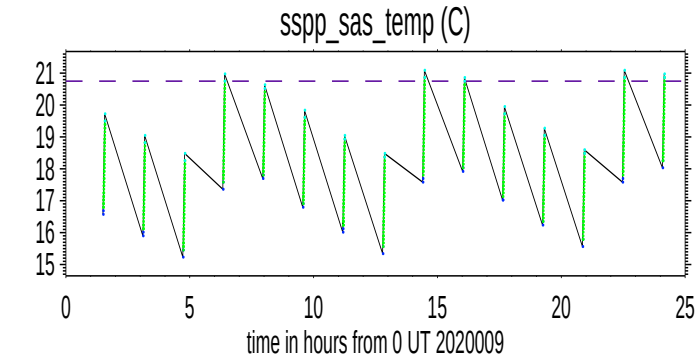
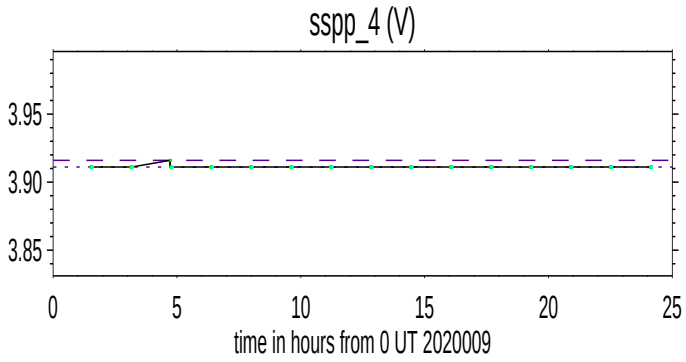
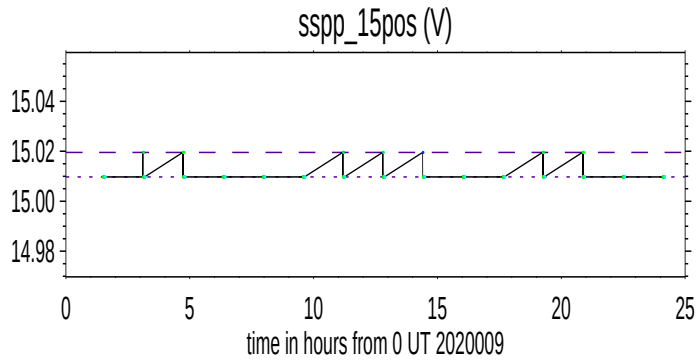
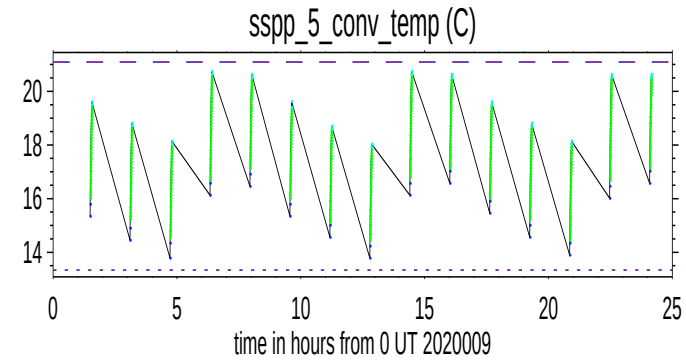
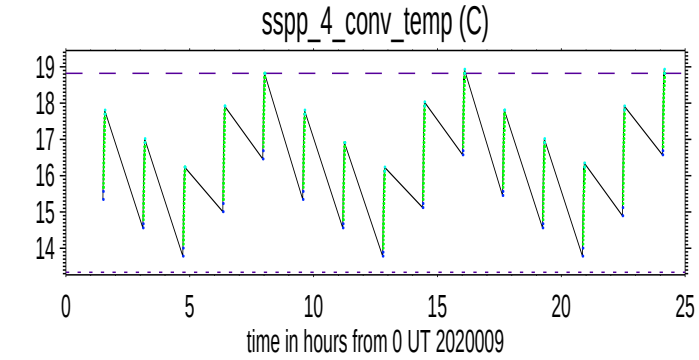
142
141
140
139
138
0
5
10
15
20
25
time in hours from 0 UT 2020009

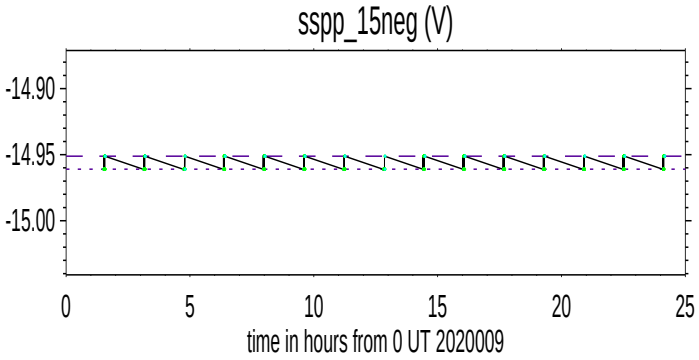

sspp_sas_temp (C)
21
20
19
18
17
16
15
0
5
10
15
20
25
time in hours from 0 UT 2020009

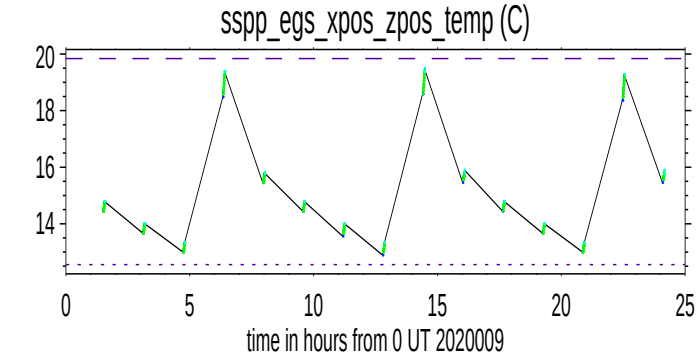

sspp_4 (V)
3.95
3.90
3.85
0
5
10
15
20
25
time in hours from 0 UT 2020009

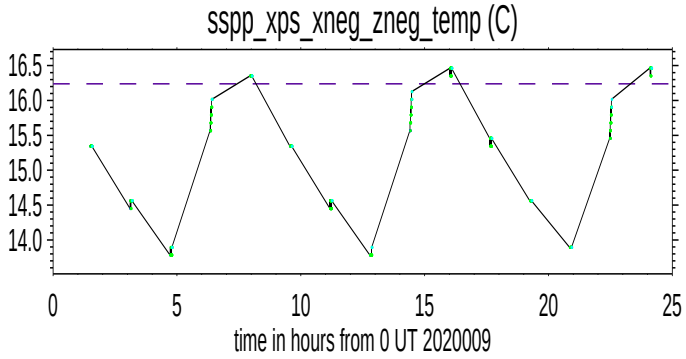

sspp_15pos (V)
15.04
15.02
15.00
14.98
0
5
10
15
20
25
time in hours from 0 UT 2020009

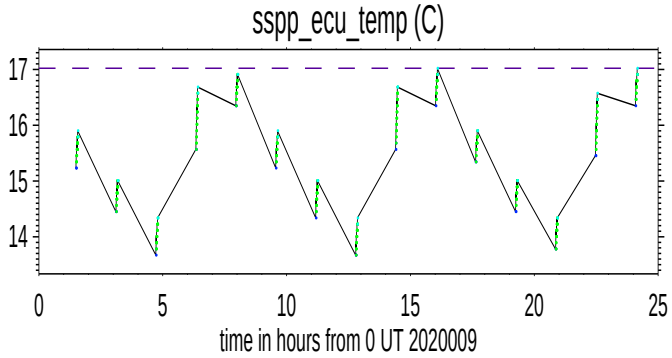

sspp_5_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020009

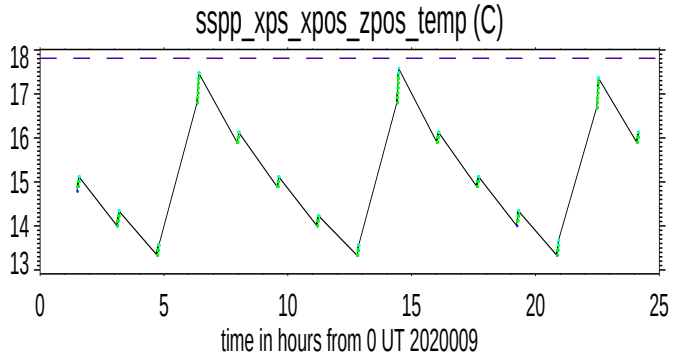

sspp_4_conv_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020009

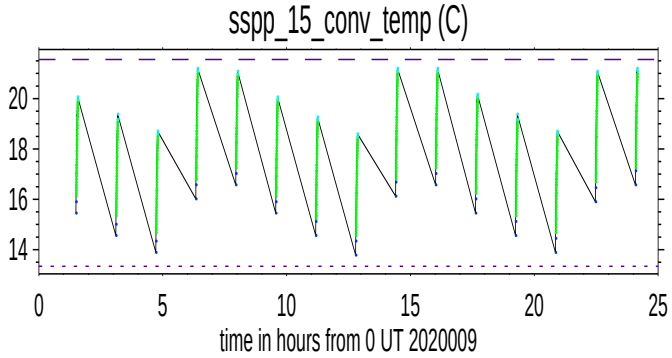

sspp_15neg (V)
-14.90
-14.95
-15.00
0
5
10
15
20
25
time in hours from 0 UT 2020009

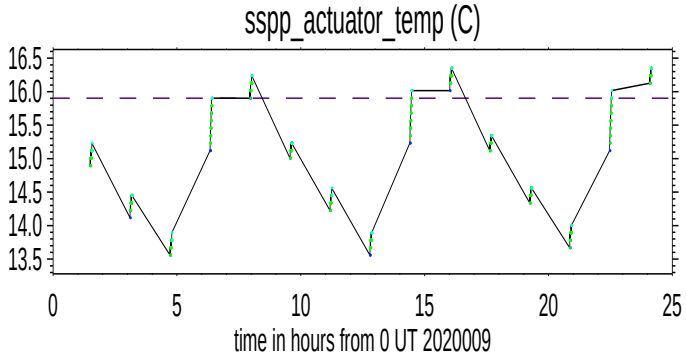

sspp_egs_xpos_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020009

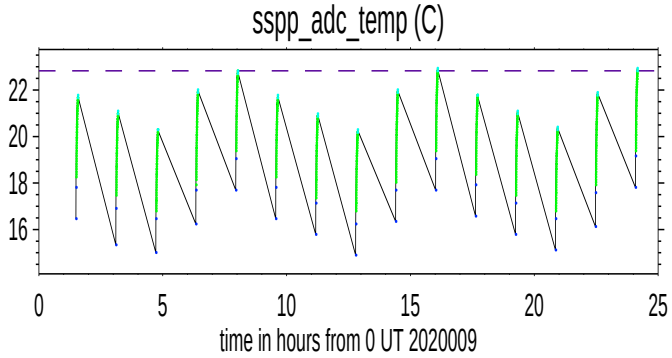

sspp_xps_xneg_zneg_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
0
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_ecu_temp (C)
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_xps_xpos_zpos_temp (C)
18
17
16
15
14
13
0
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_15_conv_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_actuator_temp (C)
16.5
16.0
15.5
15.0
14.5
14.0
13.5
0
5
10
15
20
25
time in hours from 0 UT 2020009


sspp_adc_temp (C)
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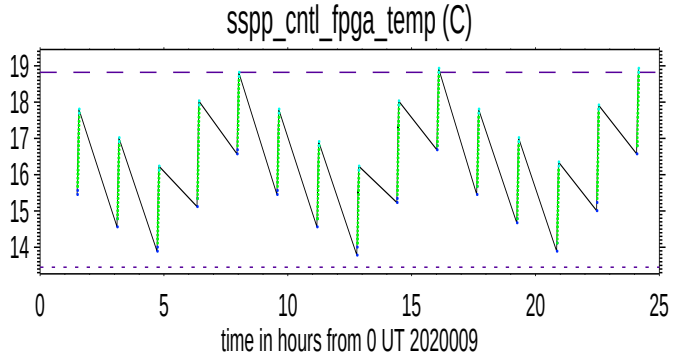
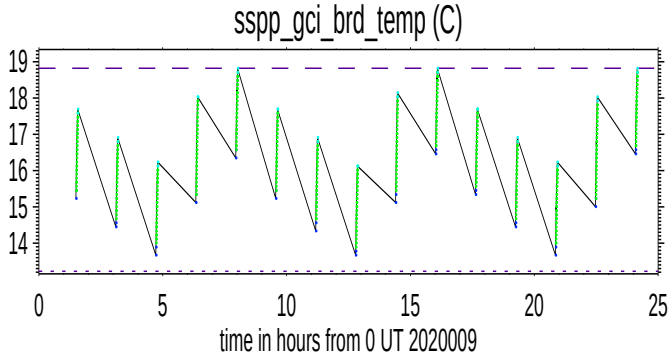
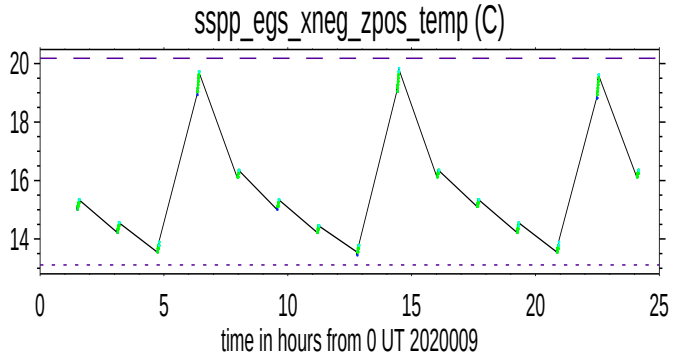
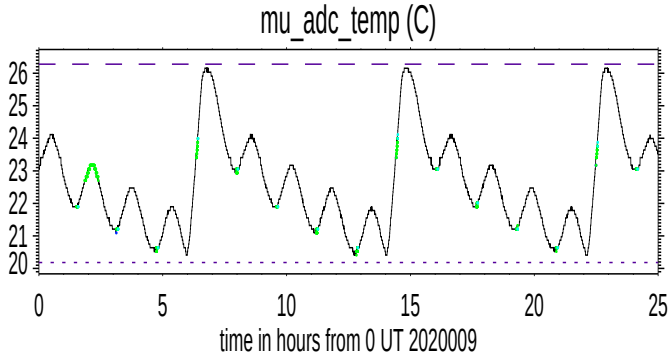
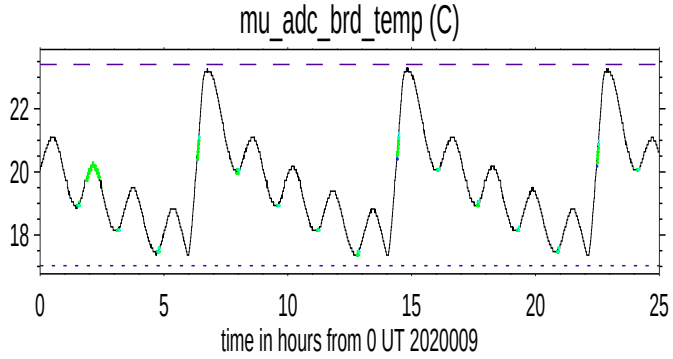
20
18
16
0
5
10
15
20
25
time in hours from 0 UT 2020009

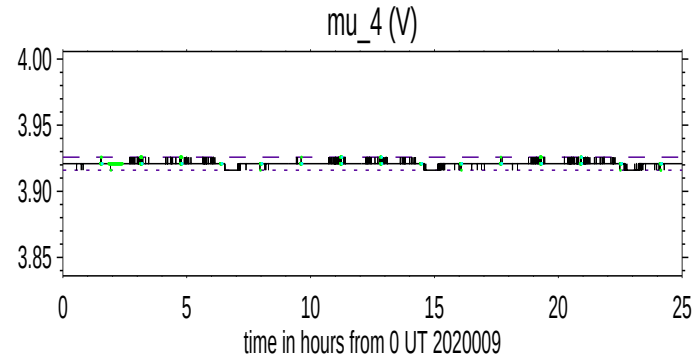

sspp_cntl_fpga_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020009

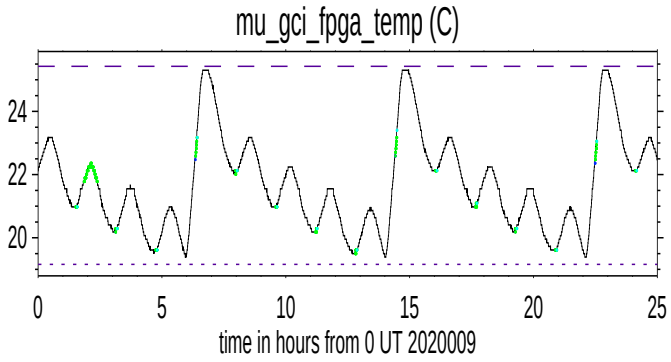

sspp_gci_brd_temp (C)
19
18
17
16
15
14
0
5
10
15
20
25
time in hours from 0 UT 2020009

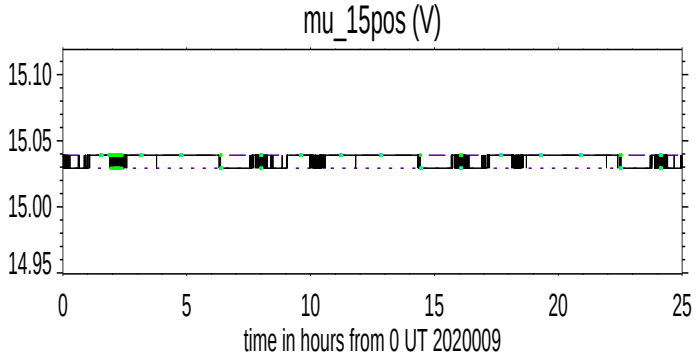

sspp_egs_xneg_zpos_temp (C)
20
18
16
14
0
5
10
15
20
25
time in hours from 0 UT 2020009

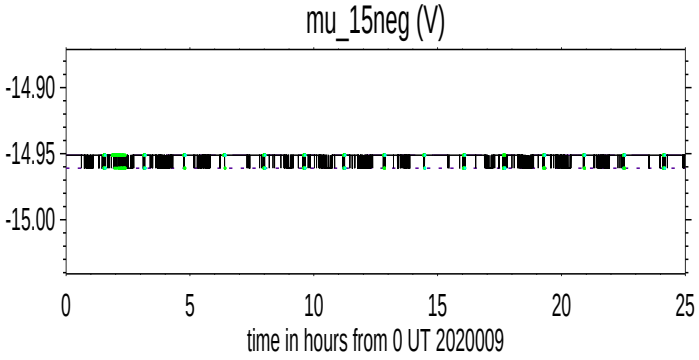

mu_adc_temp (C)
26
25
24
23
22
21
20
0
5
10
15
20
25
time in hours from 0 UT 2020009

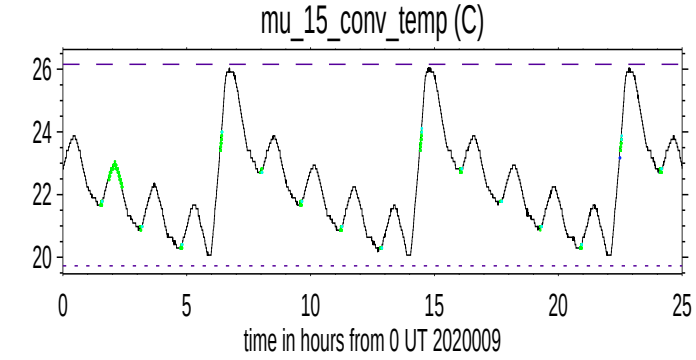

mu_adc_brd_temp (C)
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020009

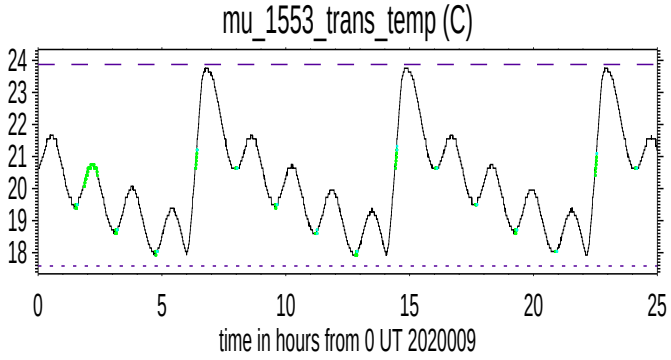

mu_4 (V)
4.00
3.95
3.90
3.85
0 5 10 15 20 25
time in hours from 0 UT 2020009

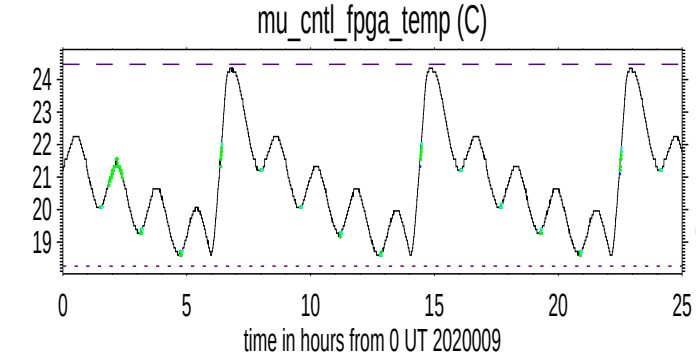

mu_gci_fpga_temp (C)
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2020009

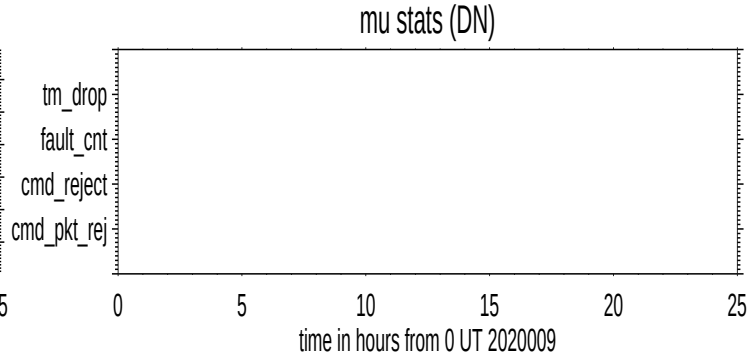

mu_15pos (V)
15.10
15.05
15.00
14.95
0 5 10 15 20 25
time in hours from 0 UT 2020009

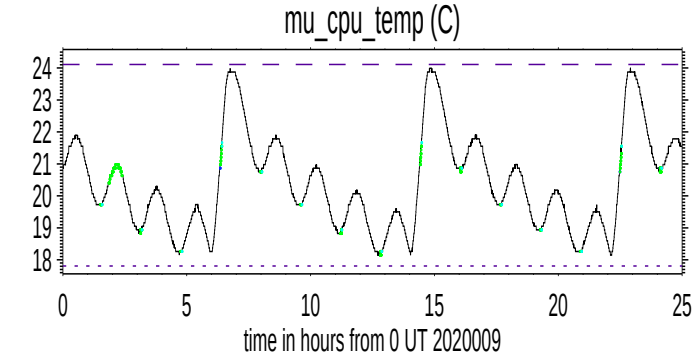

mu_15neg (V)
-14.90
-14.95
-15.00
0 5 10 15 20 25
time in hours from 0 UT 2020009

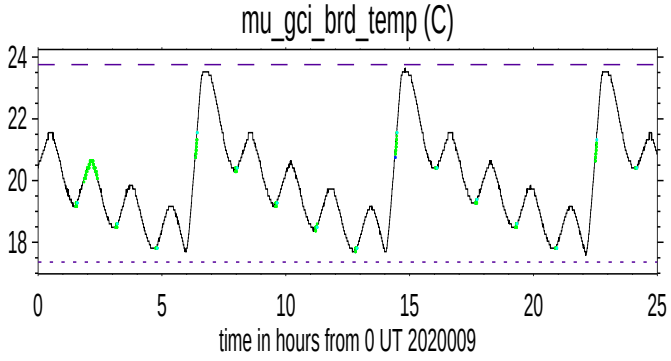

mu_15_conv_temp (C)
26
24
22
20
0 5 10 15 20 25
time in hours from 0 UT 2020009

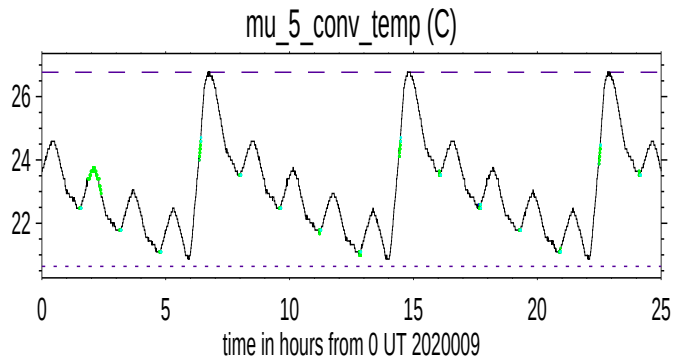

mu_1553_trans_temp (C)
24
23
22
21
20
19
18
0 5 10 15 20 25
time in hours from 0 UT 2020009

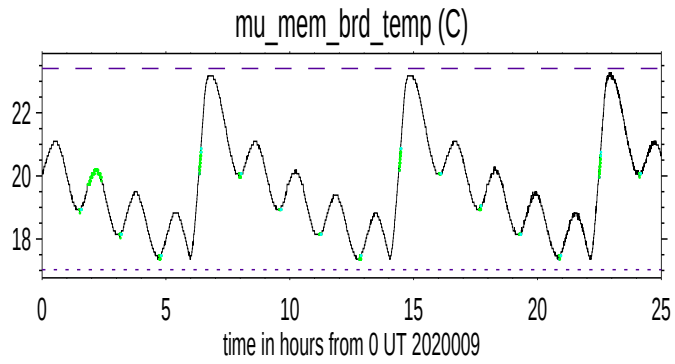

mu_cntl_fpga_temp (C)
24
23
22
21
20
19
0 5 10 15 20 25
time in hours from 0 UT 2020009

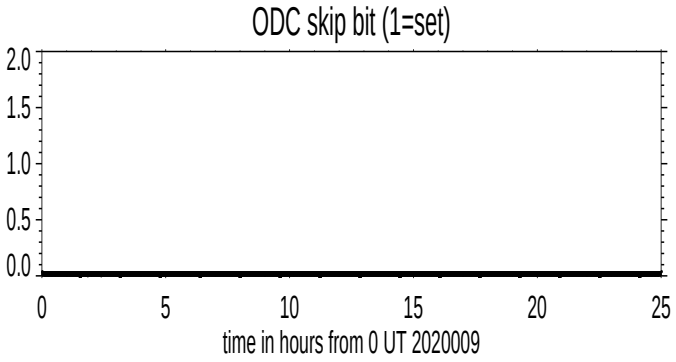

mu stats (DN)
tm_drop
fault_cnt
cmd_reject
cmd_pkt_rej
0 5 10 15 20 25
time in hours from 0 UT 2020009

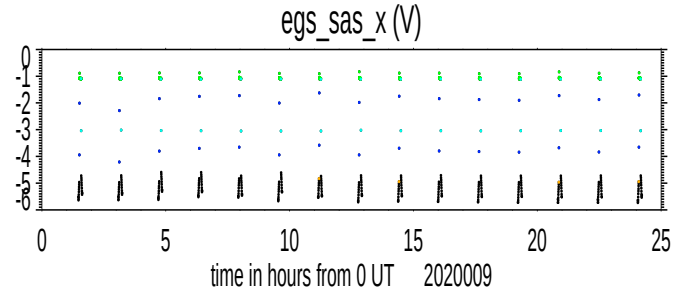

mu_cpu_temp (C)
24
23
22
21
20
19
18
0 5 10 15 20 25
time in hours from 0 UT 2020009

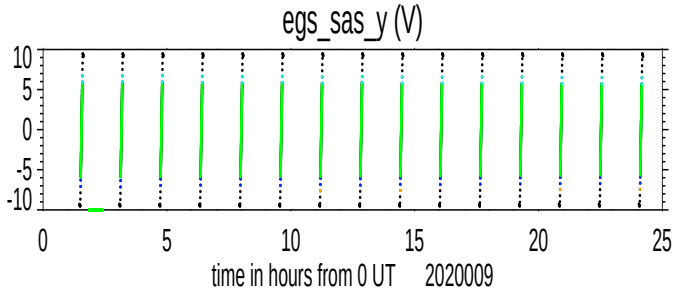

mu_gci_brd_temp (C)
24
22
20
18
0 5 10 15 20 25
time in hours from 0 UT 2020009

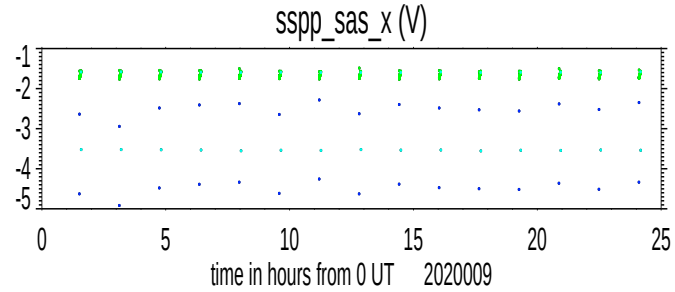

mu_5_conv_temp (C)
26
24
22
0
5
10
15
20
25
time in hours from 0 UT 2020009

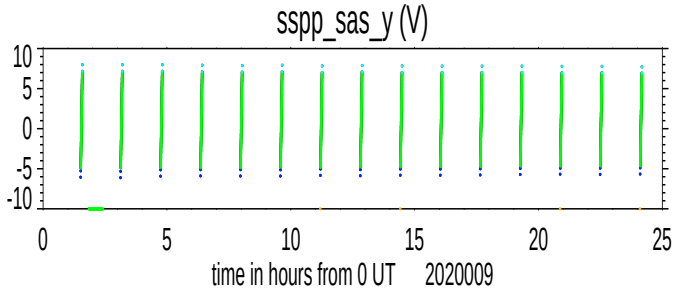

mu_mem_brd_temp (C)
22
20
18
0
5
10
15
20
25
time in hours from 0 UT 2020009

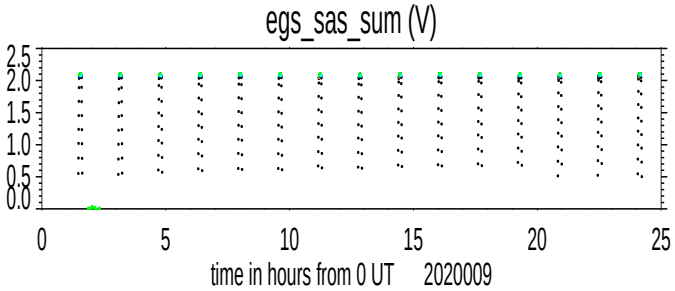

ODC skip bit (1=set)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
time in hours from 0 UT 2020009

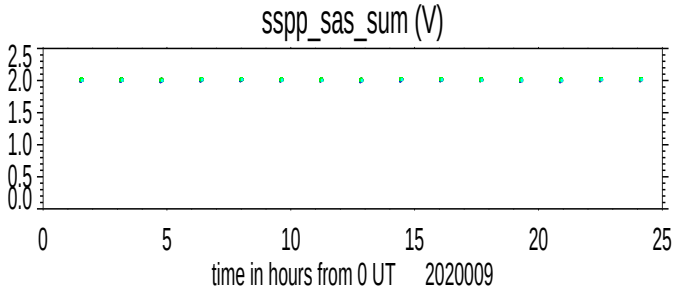

egs_sas_x (V)
time in hours from 0 UT 2020009

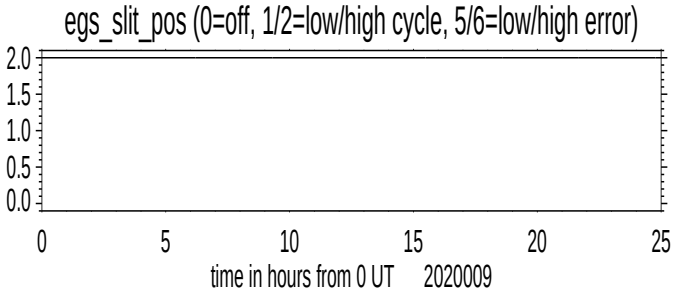

egs_sas_y (V)
time in hours from 0 UT 2020009

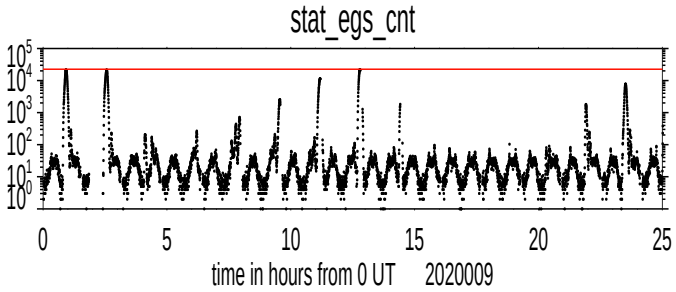

sspp_sas_x (V)
time in hours from 0 UT 2020009

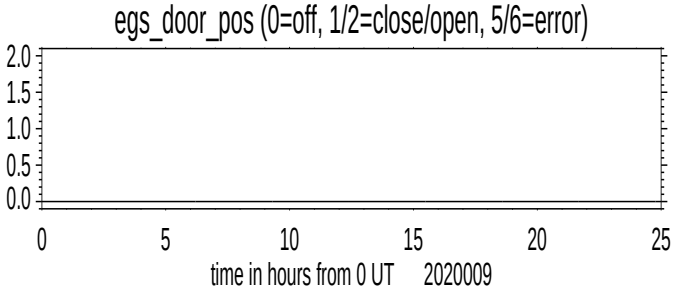

sspp_sas_y (V)
time in hours from 0 UT 2020009

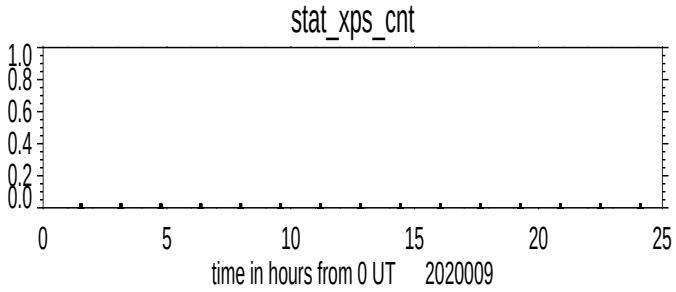

egs_sas_sum (V)
time in hours from 0 UT 2020009

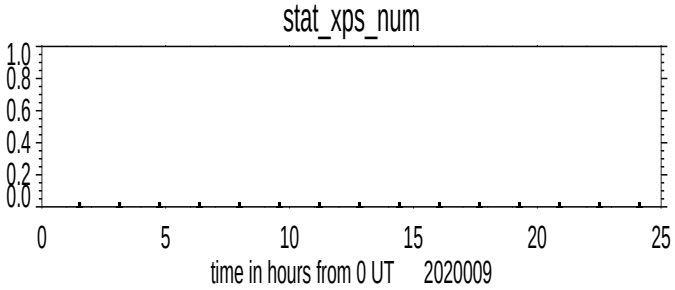

sspp_sas_sum (V)
time in hours from 0 UT 2020009

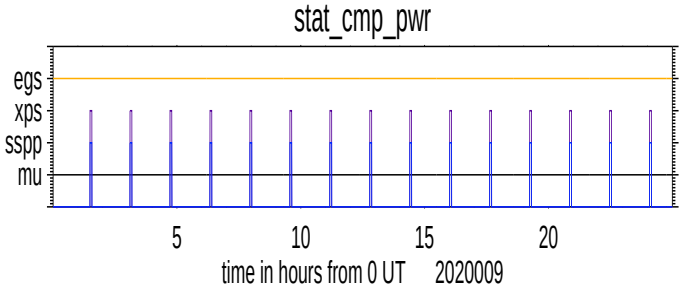

egs_slit_pos (0=off, 1/2=low/high cycle, 5/6=low/high error)
time in hours from 0 UT 2020009


stat_egs_cnt
time in hours from 0 UT 2020009

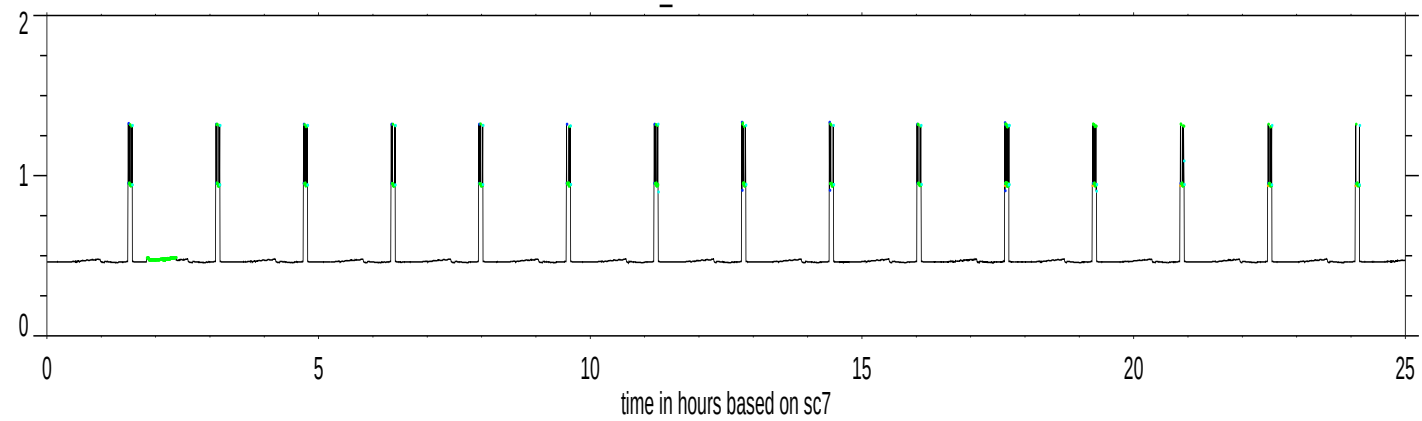

egs_door_pos (0=off, 1/2=close/open, 5/6=error)
time in hours from 0 UT 2020009


stat_xps_cnt
time in hours from 0 UT 2020009

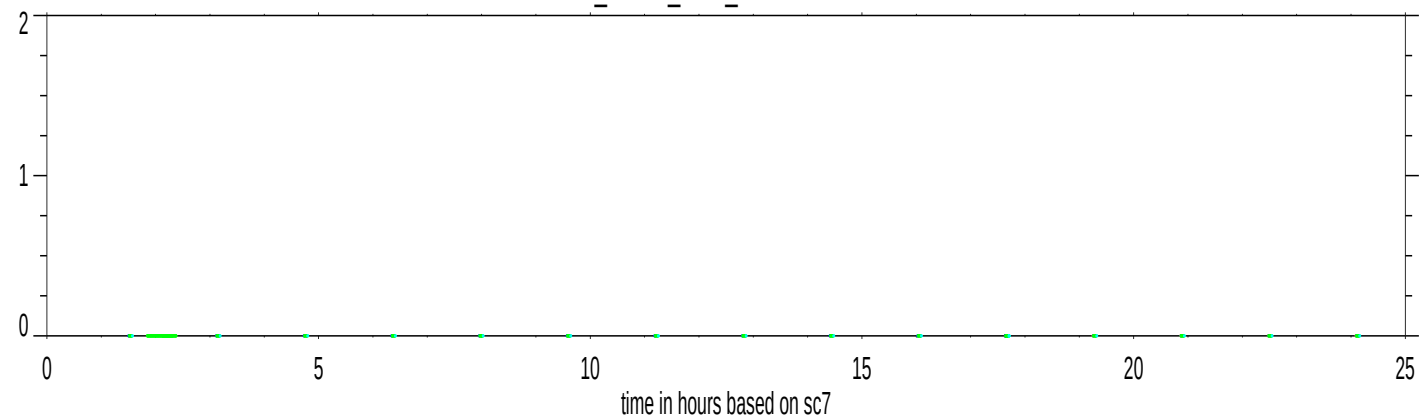

stat_xps_num
time in hours from 0 UT 2020009


stat_cmp_pwr
egs
xps
sspp
mu
time in hours from 0 UT 2020009

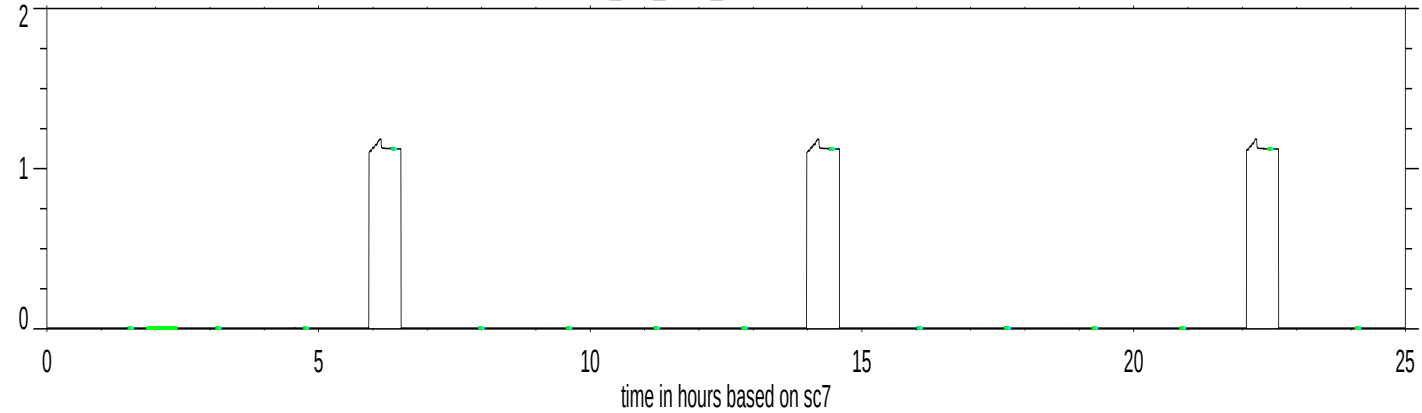
SEE_CUR 2020009



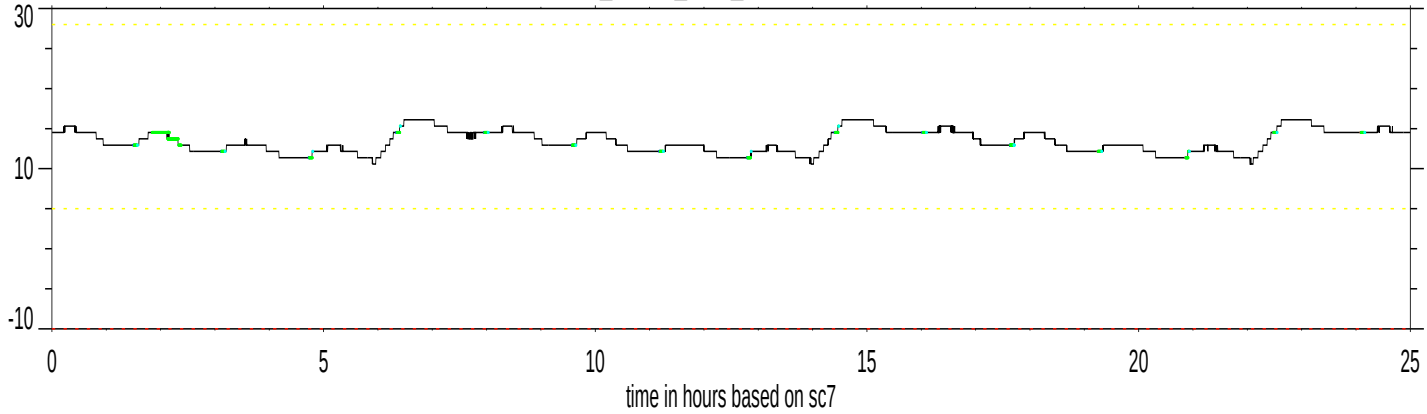
SEE_SURV_HTR_CUR 2020009



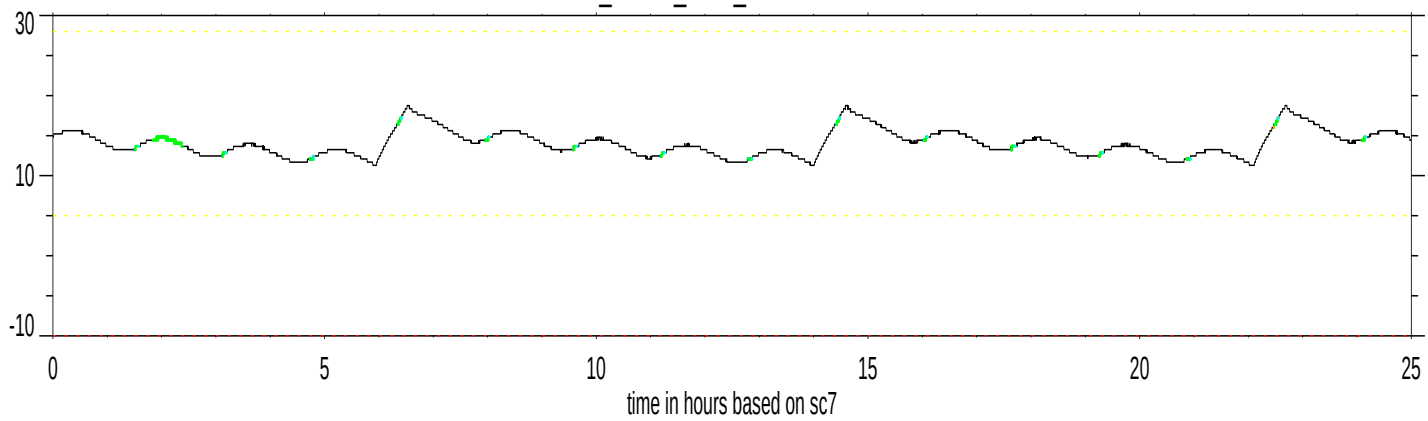
SEE_OP_HTR_CUR 2020009



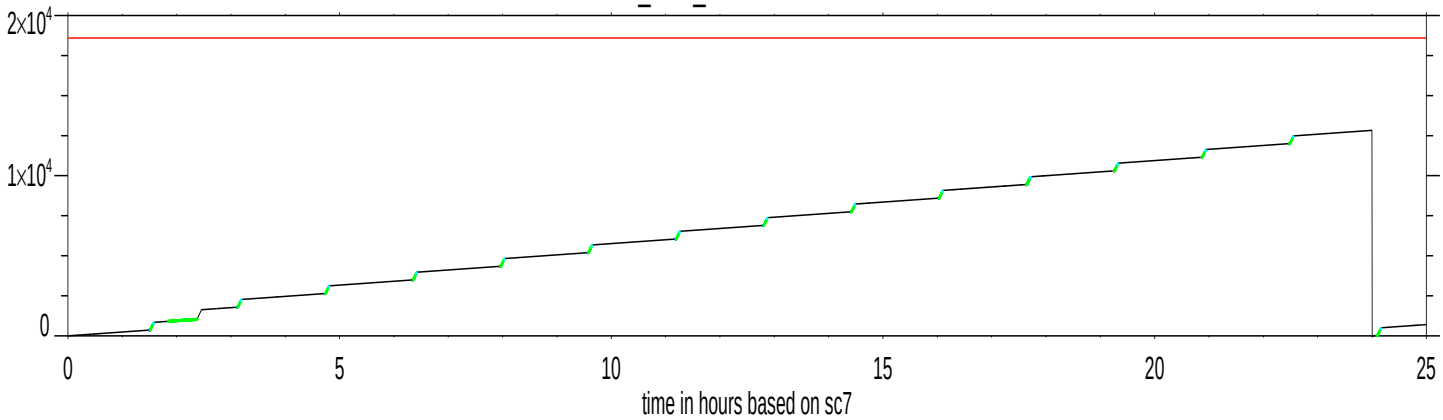
SSPP_BHND_XPS_TEMP 2020009



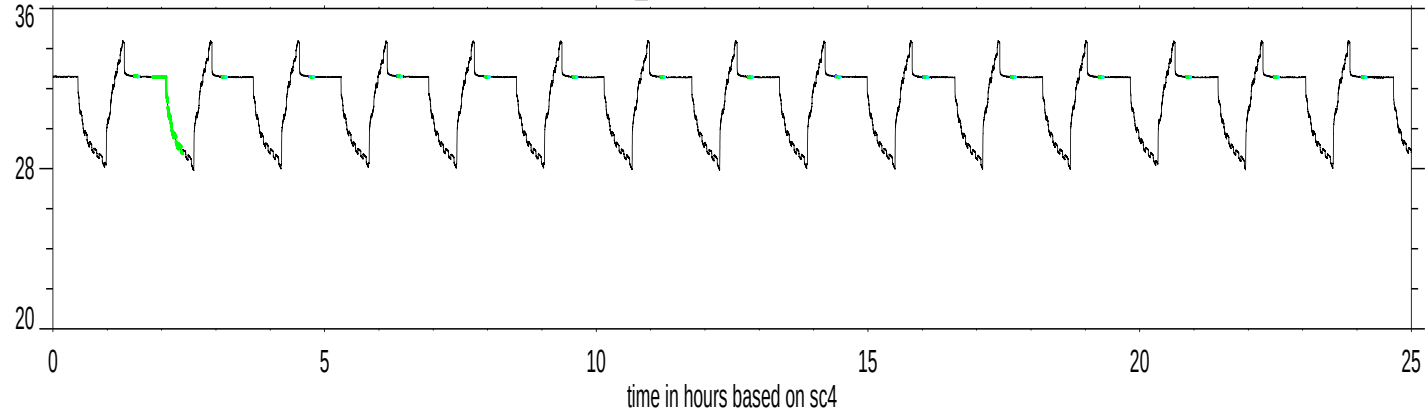
SSPP_BHND_MTR_TEMP 2020009



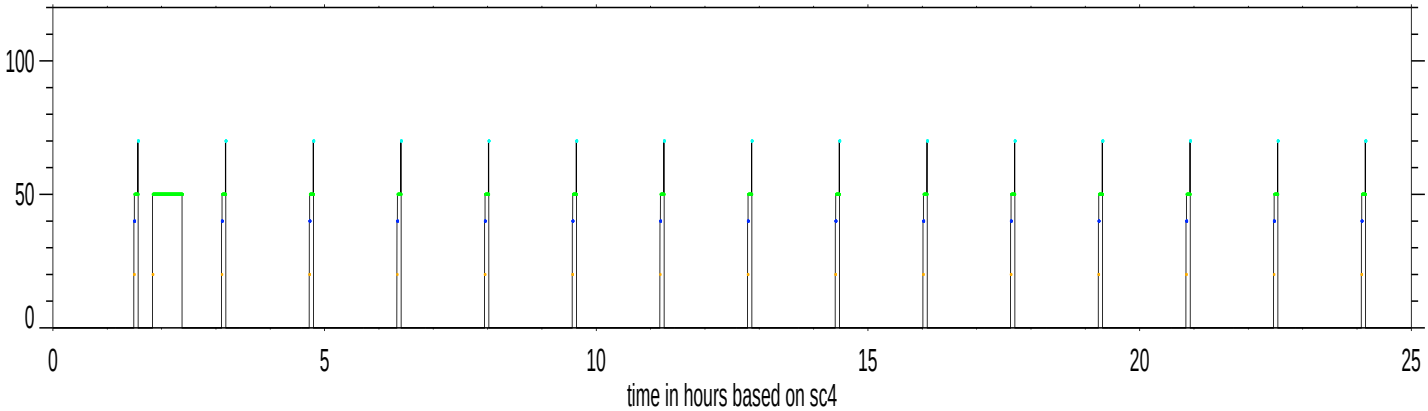
SEE_PKT_COUNT 2020009

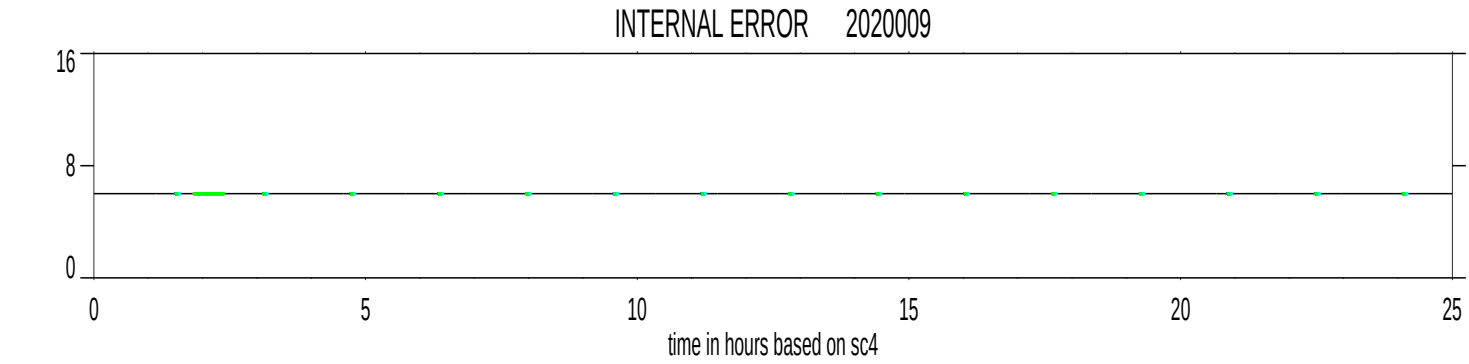


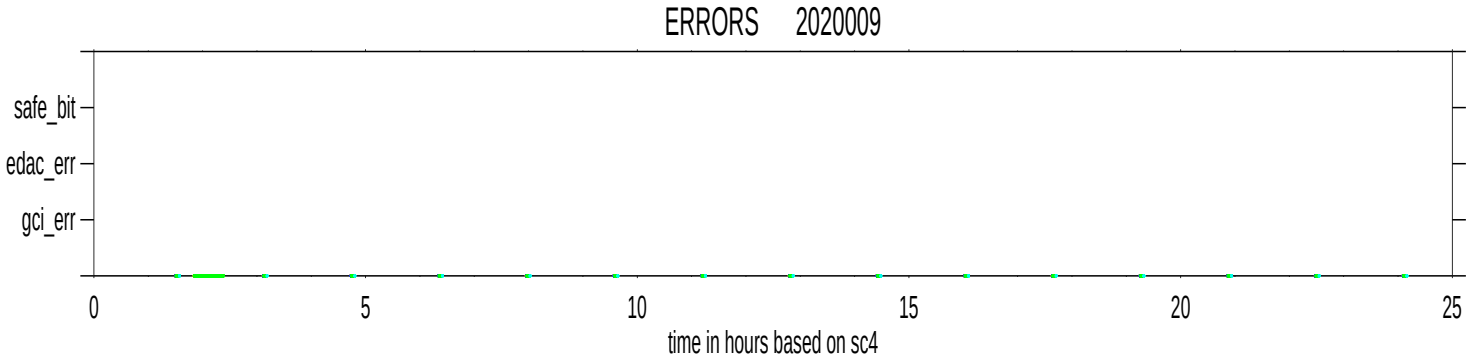
BUS_VOLTAGE 2020009

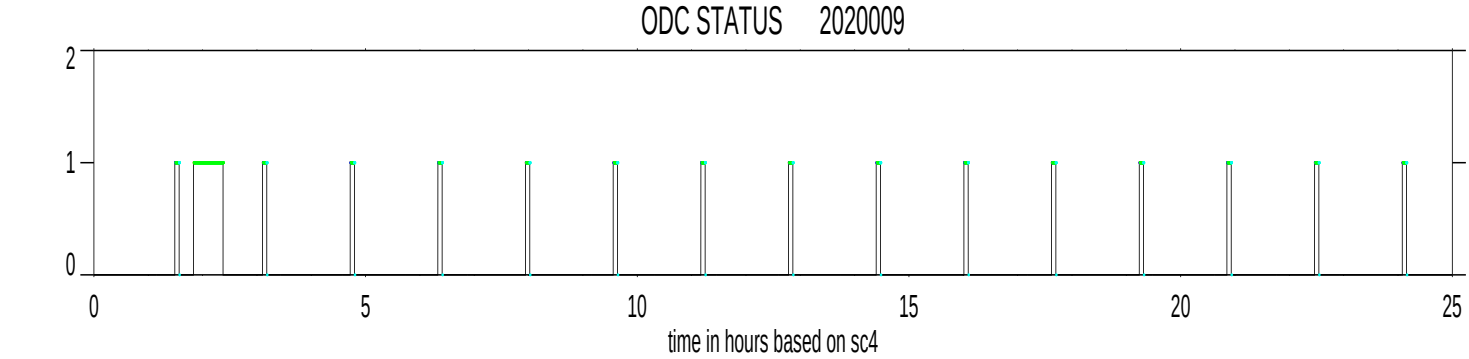


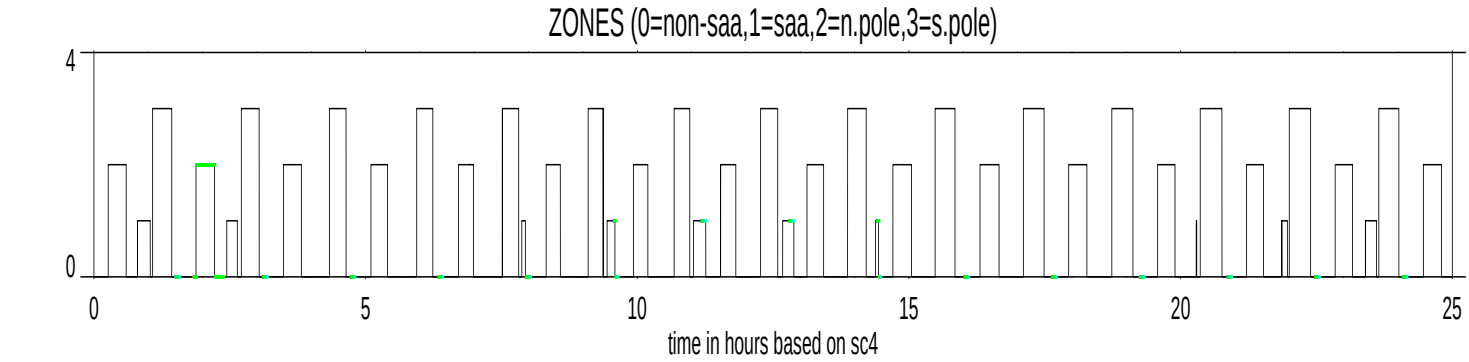
SEE_MU Operational Mode 2020009

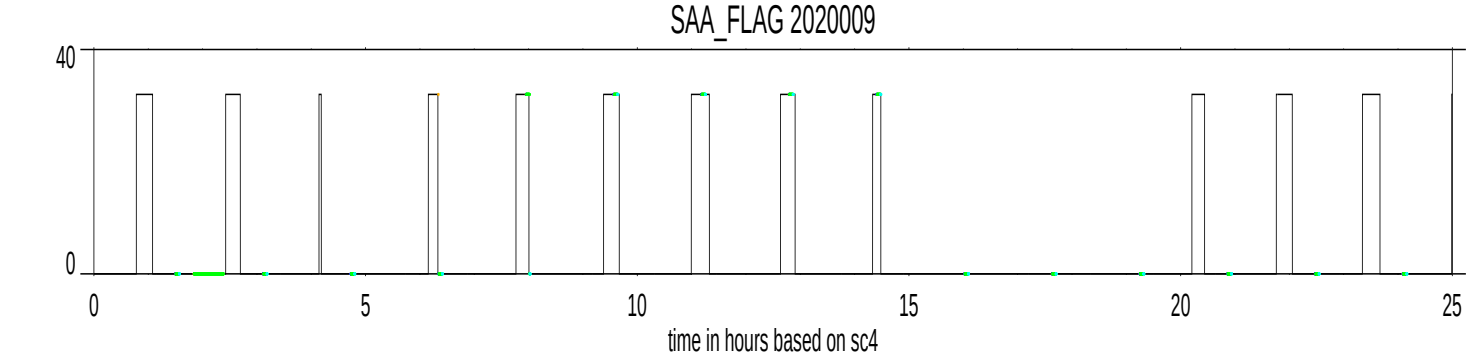


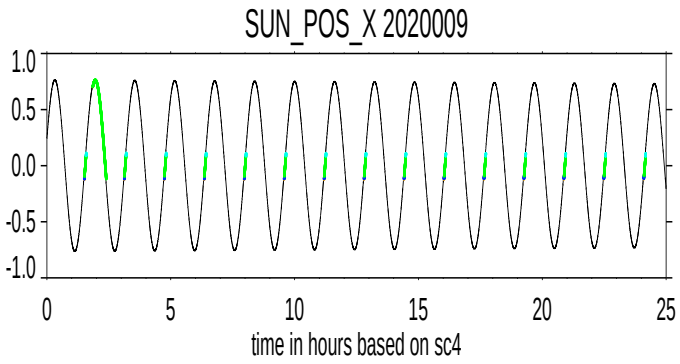

INTERNAL ERROR 2020009
16
8
0
0
5
10
15
20
25
time in hours based on sc4

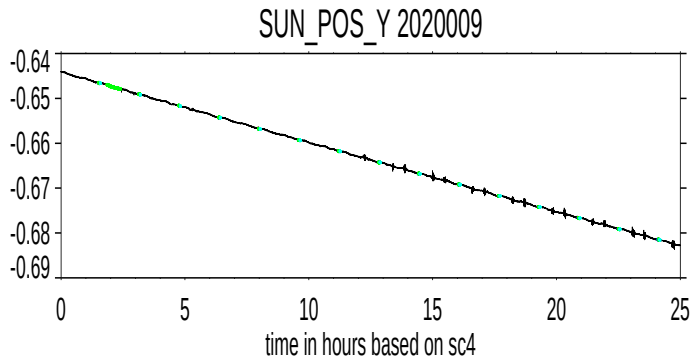

ERRORS 2020009
safe_bit
edac_err
gci_err
0
5
10
15
20
25
time in hours based on sc4

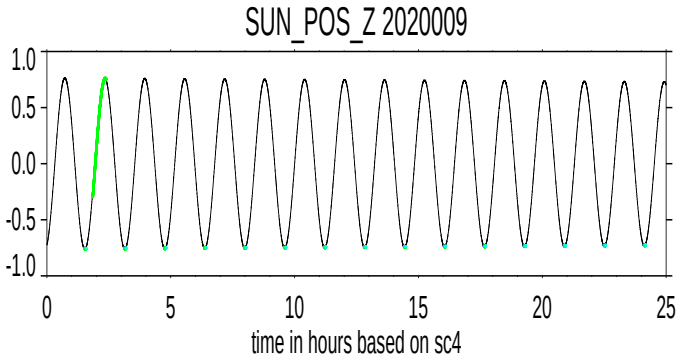

ODC STATUS 2020009
2
1
0
0
5
10
15
20
25
time in hours based on sc4

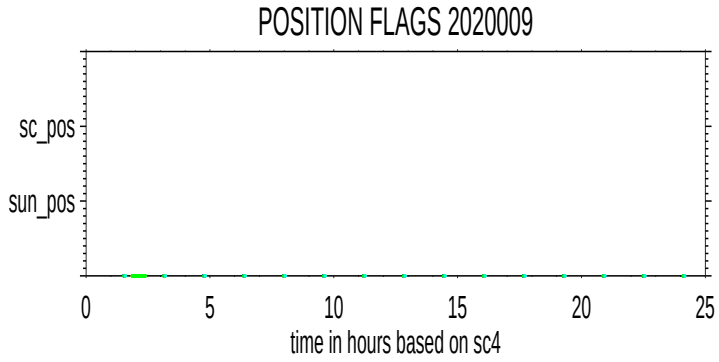

ZONES (0=non-saa,1=saa,2=n.pole,3=s.pole)
4
0
0
5
10
15
20
25
time in hours based on sc4

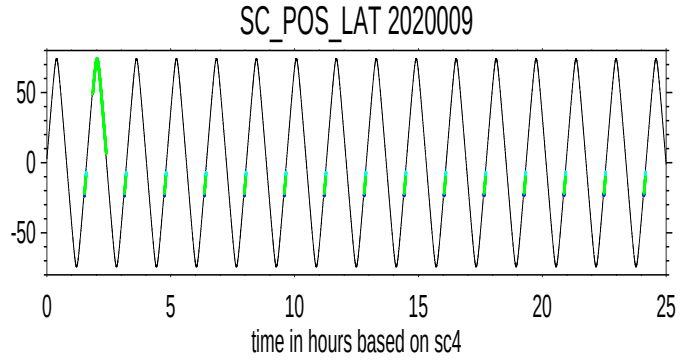

SAA_FLAG 2020009
40
0
0
5
10
15
20
25
time in hours based on sc4

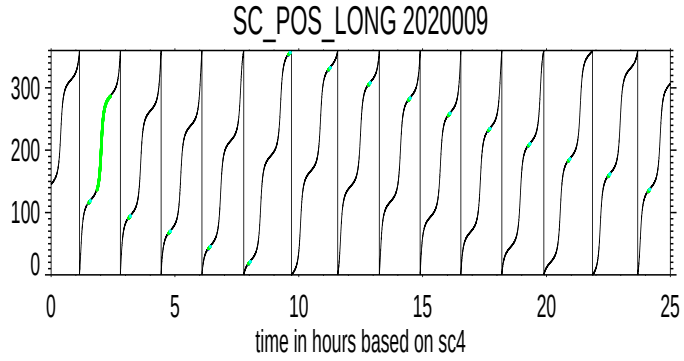

SUN_POS_X 2020009
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4

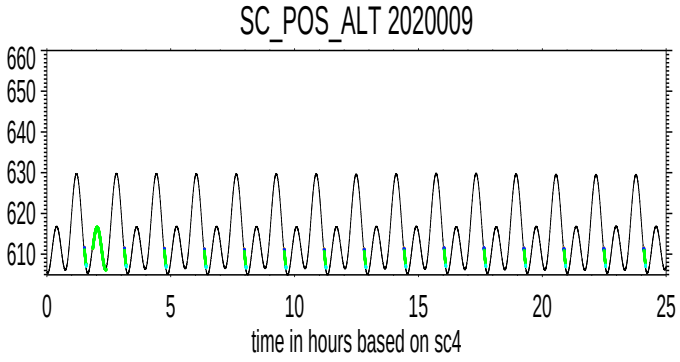

SUN_POS_Y 2020009
-0.64
-0.65
-0.66
-0.67
-0.68
-0.69
0
5
10
15
20
25
time in hours based on sc4

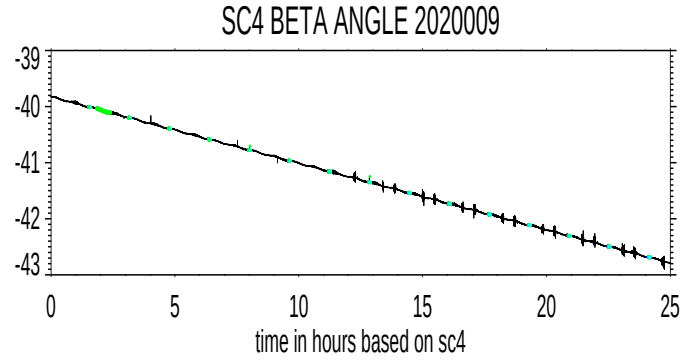

SUN_POS_Z 2020009
1.0
0.5
0.0
-0.5
-1.0
0
5
10
15
20
25
time in hours based on sc4


POSITION FLAGS 2020009
sc_pos
sun_pos
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LAT 2020009
50
0
-50
0
5
10
15
20
25
time in hours based on sc4


SC_POS_LONG 2020009
300
200
100
0
0
5
10
15
20
25
time in hours based on sc4


SC_POS_ALT 2020009
660
650
640
630
620
610
0
5
10
15
20
25
time in hours based on sc4


SC4 BETA ANGLE 2020009
-39
-40
-41
-42
-43
0
5
10
15
20
25
time in hours based on sc4