XRT Timeline to be uploaded on 2023/05/16

Period: 2023/05/16 11:01:00 - 2023/05/20 11:24:00

* * * * * **Normal mode** * * * * *

XOB #1B8F: CCD Monitor During Bakeout - G-band 1ms - 1kx1k - Q90 - 1st Quadrant -Al/mesh(512ms), Al/Poly(1443ms) - w leak image-1msCCD

Term	Pointing (x, y)	Comment
05/17 11:40:00 - 05/17 11:46:54	Fixed (-528.4, -528.4)	Post bakeout Q1

PROG= 18 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 51 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 19 2-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 3 2-time(s) 2.0sec

Seqn= 34 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

XOB #1B90: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 2nd Quadrant - Al/mesh (512ms), Al/Poly (1443ms) - w leak image-1 ms

Term	Pointing (x, y)	Comment
05/17 11:50:00 - 05/17 12:06:54	Fixed (528.4, -528.4)	Post bakeout Q2

PROG= 02 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 38 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 19 2-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 3 2-time(s) 2.0sec

Seqn= 34 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

XOB #1B91: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 3rd Quadrant - Al/mesh (512ms), Al/Poly (1443ms) - w leak image-1 ms

Term	Pointing (x, y)	Comment
05/17 12:10:00 - 05/17 12:16:54	Fixed (528.4, 528.4)	Post bakeout Q3

PROG= 06 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 21 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 512)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 512)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 19 2-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 3 2-time(s) 2.0sec

Seqn= 34 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

XOB #1B92: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 4th Quadrant - Al/mesh (512ms), Al/Poly (1443ms) - w leak image-1 ms

Term	Pointing (x, y)	Comment
05/17 12:20:00 - 05/17 12:26:54	Fixed (-528.4, 528.4)	Post bakeout Q4

PROG= 10 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 14 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 19 2-time(s) 2.0sec													
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Al-poly/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Subr= 3 2-time(s) 2.0sec													
Seqn= 34 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec	
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval	

XOB #1CF0: Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(12/181/1443), Thin-Be(33/512/4096), Thick-Be(65536), Med-Al(512/8192/32768), Med-Be(128/579

Term	Pointing (x, y)	Comment
05/17 12:30:00 - 05/17 12:36:54	Fixed (0.0, 0.0)	Post bakeout synoptics
05/17 17:28:00 - 05/17 17:38:00	Fixed (0.0, 0.0)	synoptic & Straylight measurements
05/18 06:03:06 - 05/18 06:10:54	Fixed (0.0, 0.0)	HOP349 & synoptic

PROG= 16 1-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 5 1-time(s) 2.0sec													
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec	
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec	
Seqn= 26 1-time(s) 2.0sec													
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	5ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	707ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Seqn= 15 1-time(s) 2.0sec													
Al-poly/Open	Al-poly/Open	close	Safe	Norm	12ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Seqn= 83 1-time(s) 2.0sec													
thin-Be/Open	thin-Be/Open	close	Safe	Norm	32ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
thin-Be/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
thin-Be/Open	thin-Be/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Seqn= 23 1-time(s) 4.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec	
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Subr= 2 1-time(s) 2.0sec													
Seqn= 46 1-time(s) 2.0sec													
Open/thick-Be	Open/thick-Be	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Seqn= 17 1-time(s) 2.0sec													
med-Al/Open	med-Al/thick-Al	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
med-Al/Open	med-Al/thick-Al	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
med-Al/Open	med-Al/Open	close	Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Seqn= 33 1-time(s) 2.0sec													
med-Be/Open	Open/thick-Al	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
med-Be/Open	med-Be/Open	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
med-Be/Open	med-Be/Open	close	Safe	Norm	22.6s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Seqn= 56 1-time(s) 2.0sec													
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval	

XOB #1BBA: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with

Term	Pointing (x, y)	Comment
05/17 12:40:00 - 05/17 17:24:54	Track (314.8, 150.9) @ 05/17 12:37:00	Track AR13305
05/17 18:18:00 - 05/18 00:10:55	Track (358.4, 149.7) @ 05/17 17:50:00	Track AR13305

PROG= 12 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 92 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec	
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec	
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec	
Subr= 2 5-time(s) 2.0sec													
Seqn= 47 1-time(s) 2.0sec													
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec	
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec	
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec	
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec	
Seqn= 96 4-time(s) 120.0sec													
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	0	2.0sec	
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	0	2.0sec	
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	1	2.0sec	
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	1	2.0sec	
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	2	2.0sec	
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	2	2.0sec	
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval	

XOB #1CF8: Stray light study 2023-01; Al-mesh and Al-poly, 2x2 full FOV(1min-cad) and 1x1 384 on AR(10sec-cad)

Term	Pointing (x, y)	Comment
05/17 17:40:30 - 05/17 17:49:54	Fixed (0.0, 0.0)	synoptic & Straylight measurements
05/18 00:13:30 - 05/18 00:24:54	Fixed (0.0, 930.0)	XRT straylight (40 min) before N-limb Co-alignment

PROG= 01 1-time(s)
- **Subr= 2 16-time(s) 2.0sec**
  - **Seqn= 43 1-time(s) 10.0sec**
    - Open/Al-mesh Open/thick-Al close Safe Norm 2.83s Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec
- **Subr= 3 8-time(s) 2.0sec**
  - **Seqn= 64 1-time(s) 2.0sec**
    - Open/Al-mesh Open/Ti-poly close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) DPCM 0 0 2.0sec
    - Al-poly/Open Al-poly/Open close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) DPCM 0 0 2.0sec
  - **Seqn= 43 3-time(s) 10.0sec**
    - Open/Al-mesh Open/thick-Al close Safe Norm 2.83s Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1C8D: Alignment with North Pole Al/poly 1443ms Q95 2x2 (G-band and VLS=CLS) - 5min cad

Term	Pointing (x, y)	Comment
05/18 00:40:00 - 05/18 02:24:54	Fixed (0.0, 930.0)	XRT straylight (40 min) before N-limb Co-alignment

PROG= 13 1-time(s)
- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 23 1-time(s) 2.0sec**
    - Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
- **Subr= 2 24-time(s) 300.0sec**
  - **Seqn= 69 1-time(s) 2.0sec**
    - Al-poly/Open med-Be/Open close Safe Norm 1.41s Obs 2x2 1024x1024 (1536, 1536) Q=95 0 0 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1C8E: Alignment with East limb Al/poly 1443ms Q95 2x2 (G-band and VLS=CLS) - 8 min cad

Term	Pointing (x, y)	Comment
05/18 02:40:00 - 05/18 04:24:54	Fixed (-970.0, 0.0)	E-limb co-alignment

PROG= 05 1-time(s)
- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 23 1-time(s) 2.0sec**
    - Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
- **Subr= 2 15-time(s) 480.0sec**
  - **Seqn= 70 1-time(s) 2.0sec**
    - Al-poly/Open med-Be/Open close Safe Norm 1.41s Obs 2x2 1024x1024 (512, 1536) Q=95 0 0 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1CCF: HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], Al-poly[12/181/1443], thin-Be[24/512/3897] with 512x512 G-band+Leak - 72min cad) + CME wa

Term	Pointing (x, y)	Comment
05/18 04:28:00 - 05/18 06:00:00	Fixed (0.0, 0.0)	HOP349 & synoptic

PROG= 17 Inf.-time(s)
- **Subr= 1 1-time(s) 300.0sec**
  - **Seqn= 55 1-time(s) 2.0sec**
    - Open/Al-mesh Open/Al-mesh close Safe Norm 2ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - Open/Al-mesh Open/Al-mesh close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - Open/Al-mesh Open/Al-mesh close Safe Norm 707ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 15 1-time(s) 2.0sec**
    - Al-poly/Open Al-poly/Open close Safe Norm 12ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - Al-poly/Open Al-poly/Open close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - Al-poly/Open Al-poly/thick-Al close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 79 1-time(s) 2.0sec**
    - thin-Be/Open thin-Be/Open close Safe Norm 16ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - thin-Be/Open thin-Be/Open close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
    - thin-Be/Open thin-Be/Open close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec
  - **Seqn= 30 1-time(s) 2.0sec**
    - Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 1024x1024 (512, 512) Q=90 0 0 2.0sec
    - Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 1024x1024 (512, 512) Q=95 0 0 2.0sec
- **Subr= 2 15-time(s) 360.0sec**
  - **Seqn= 8 1-time(s) 2.0sec**
    - thin-Be/Open med-Be/Open close Safe Norm 1.00s Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec
    - thin-Be/Open med-Be/Open close Safe Norm 1.41s Obs 4x4 2048x2048 (1024, 1024) DPCM 2 0 2.0sec
  - **Seqn= 74 1-time(s) 2.0sec**
    - med-Be/Open med-Be/Open close Safe Norm 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec
    - med-Be/Open med-Be/Open close Safe Norm 2.00s Obs 4x4 2048x2048 (1024, 1024) Q=98 2 0 2.0sec
  - **Seqn= 6 1-time(s) 2.0sec**
    - Al-poly/Open Al-poly/Open close Safe Norm 125ms Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec
    - Al-poly/Open Al-poly/Open close Safe Norm 1.00s Obs 4x4 2048x2048 (1024, 1024) DPCM 2 0 2.0sec
  - **Seqn= 29 1-time(s) 2.0sec**
    - Open/Al-mesh Open/Al-mesh close Safe Norm 125ms Obs 4x4 2048x2048 (1024, 1024) Q=98 3 0 2.0sec

Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	2	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #1CC3: HOP361 - High cadence (10s thin-Be only) 256x256 at 1064 1048

Term	Pointing (x, y)	Comment
05/18 06:14:00 - 05/18 11:13:00	Track (469.6, 221.8) @ 05/18 06:11:00	HOP463&Track AR13305

PROG= 20 Inf.-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 12 1-time(s) 2.0sec

Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 512)	DPCM	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 512)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 28 250-time(s) 10.0sec

thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	1024x1024 (1536, 512)	Q=95	3	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

* * * * * Flare mode * * * * *

XOB #1C96: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + Gb

Term	Pointing (x, y)	Comment
05/17 12:40:00 - 05/17 17:24:54	Track (314.8, 150.9) @ 05/17 12:37:00	Track AR13305
05/17 18:18:00 - 05/18 00:10:55	Track (358.4, 149.7) @ 05/17 17:50:00	Track AR13305
05/18 04:28:00 - 05/18 06:00:00	Fixed (0.0, 0.0)	HOP349 & synoptic

PROG= 04 30-time(s)

Subr= 1 20-time(s) 2.0sec

Seqn= 11 1-time(s) 2.0sec

Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec

Seqn= 73 1-time(s) 10.0sec

thin-Be/Open	med-Be/Open	close	Safe	Norm	125ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 10 1-time(s) 2.0sec

med-Al/Open	med-Al/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec

Seqn= 11 1-time(s) 2.0sec

Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec

Seqn= 87 1-time(s) 2.0sec

Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

* * * * * Active Region Search * * * * *

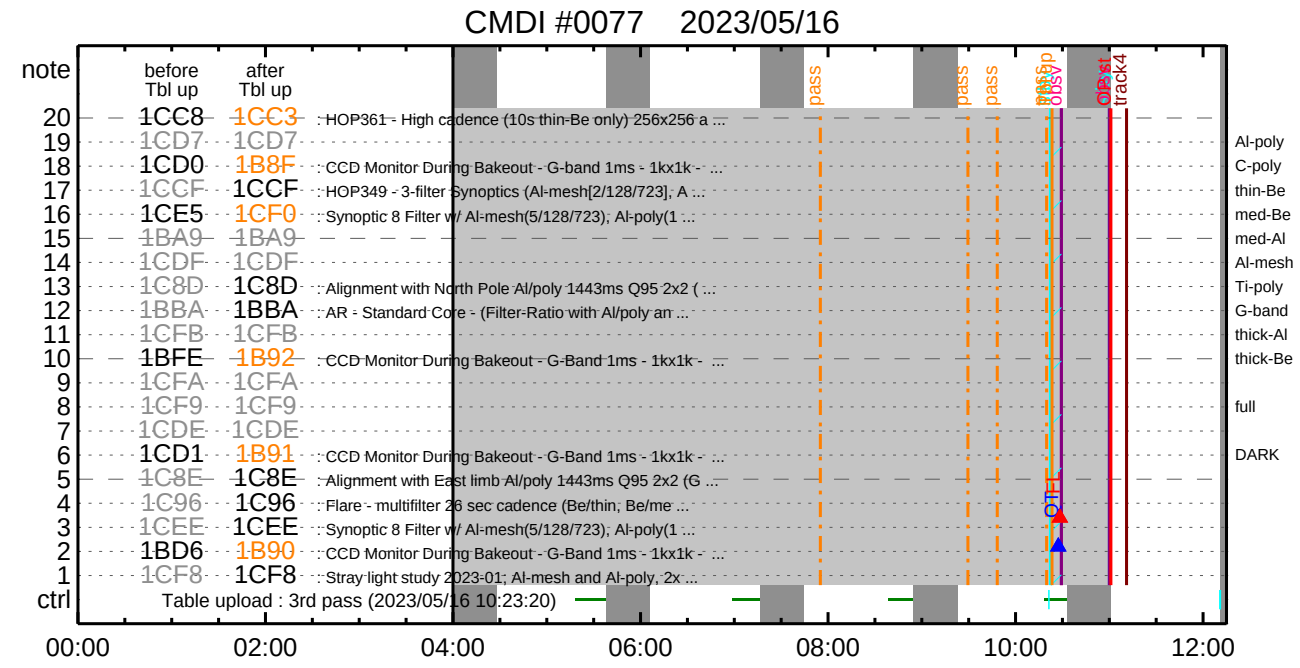
NOT USED

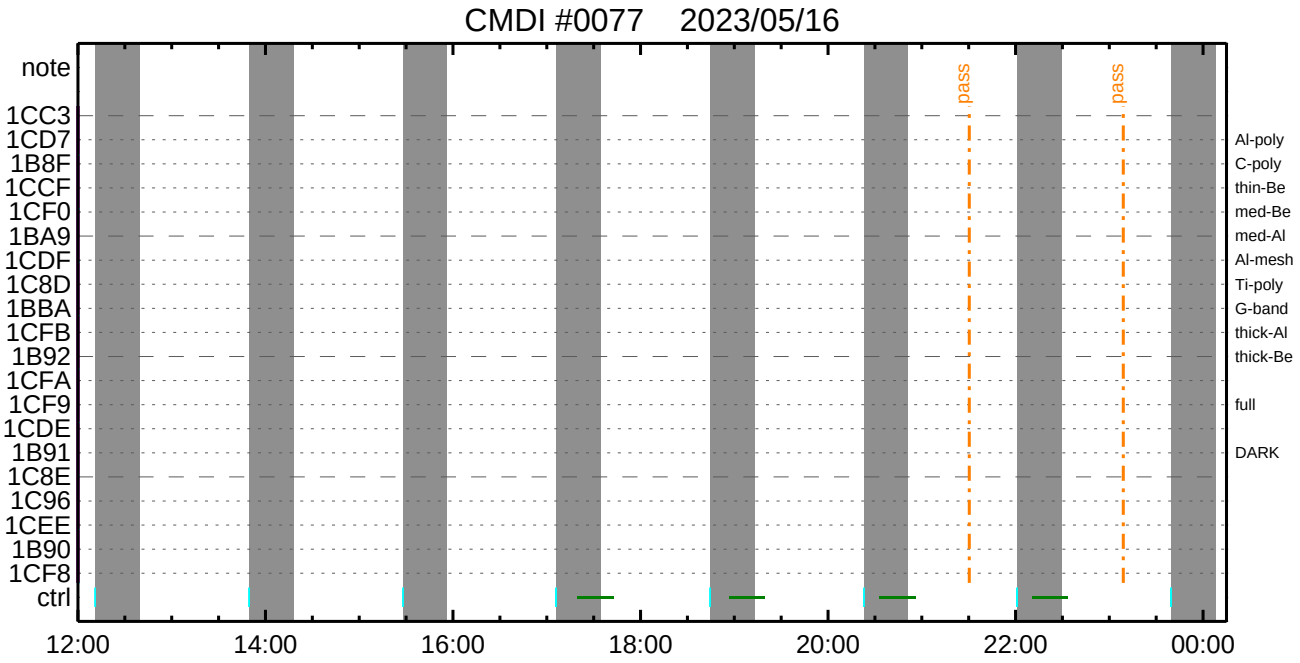
* * * * * Flare Detection * * * * *

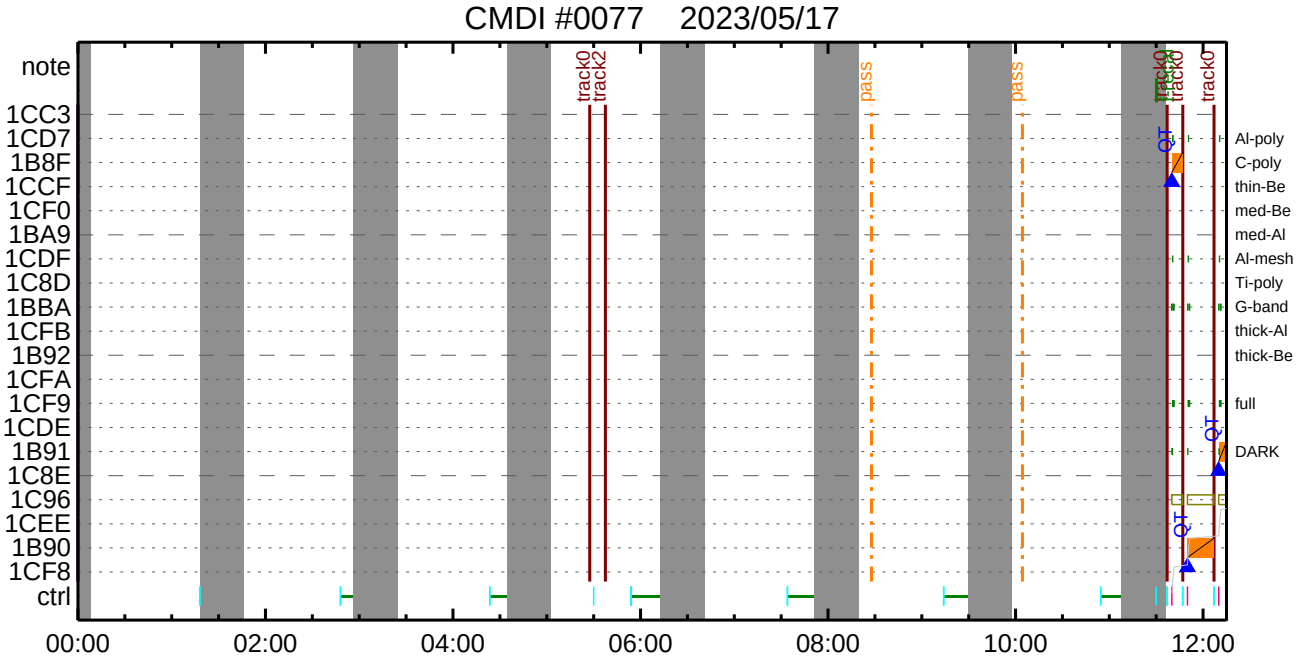
FLD Patrol

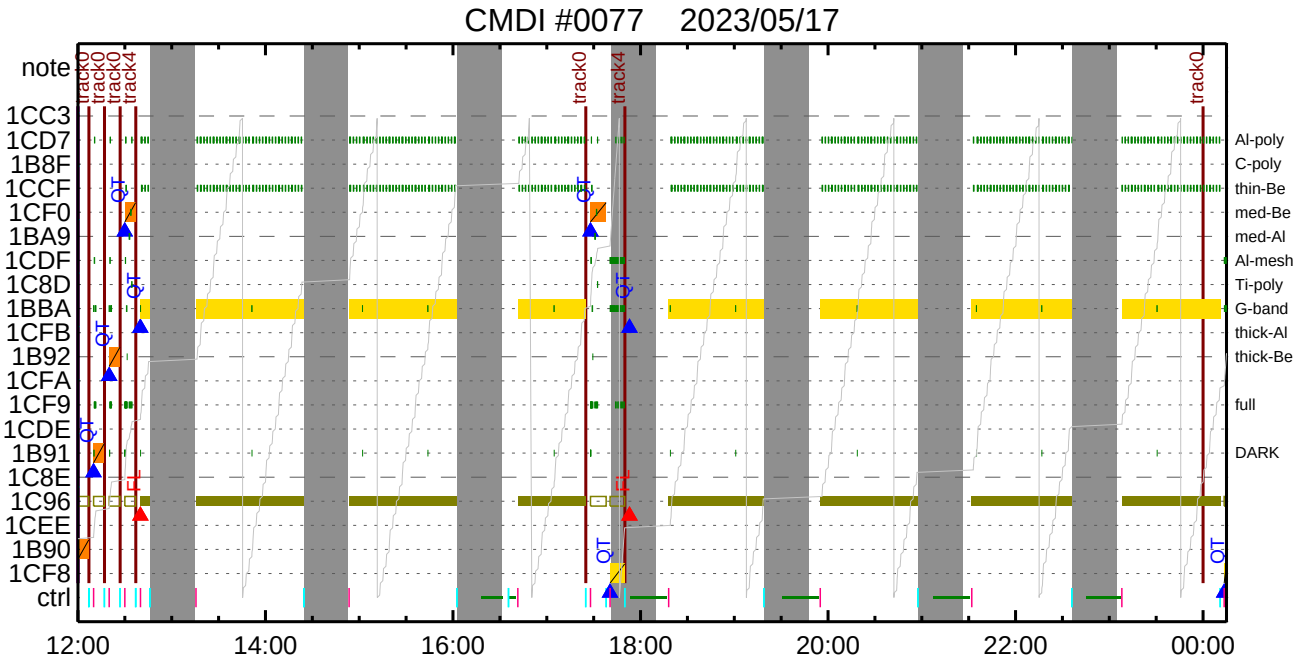
Term	Pointing (x, y)	Comment
05/16 10:24:20 - 05/17 11:39:56	cannot be identified	
05/17 12:37:18 - 05/17 17:25:18	Track (314.8, 150.9) @ 05/17 12:37:00	Track AR13305
05/17 17:50:18 - 05/18 00:11:19	Track (358.4, 149.7) @ 05/17 17:50:00	Track AR13305
05/18 04:25:18 - 05/18 06:00:24	Fixed (0.0, 0.0)	HOP349 & synoptic

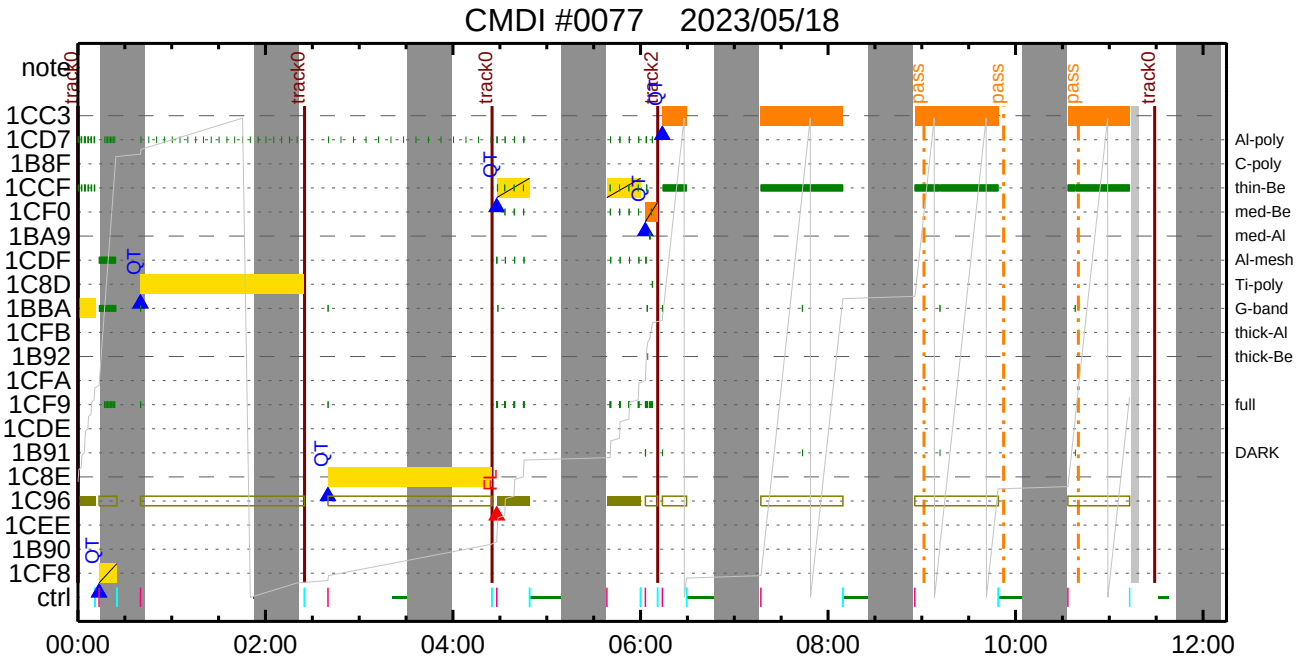
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4ms	Obs	8x8		Q=50			30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

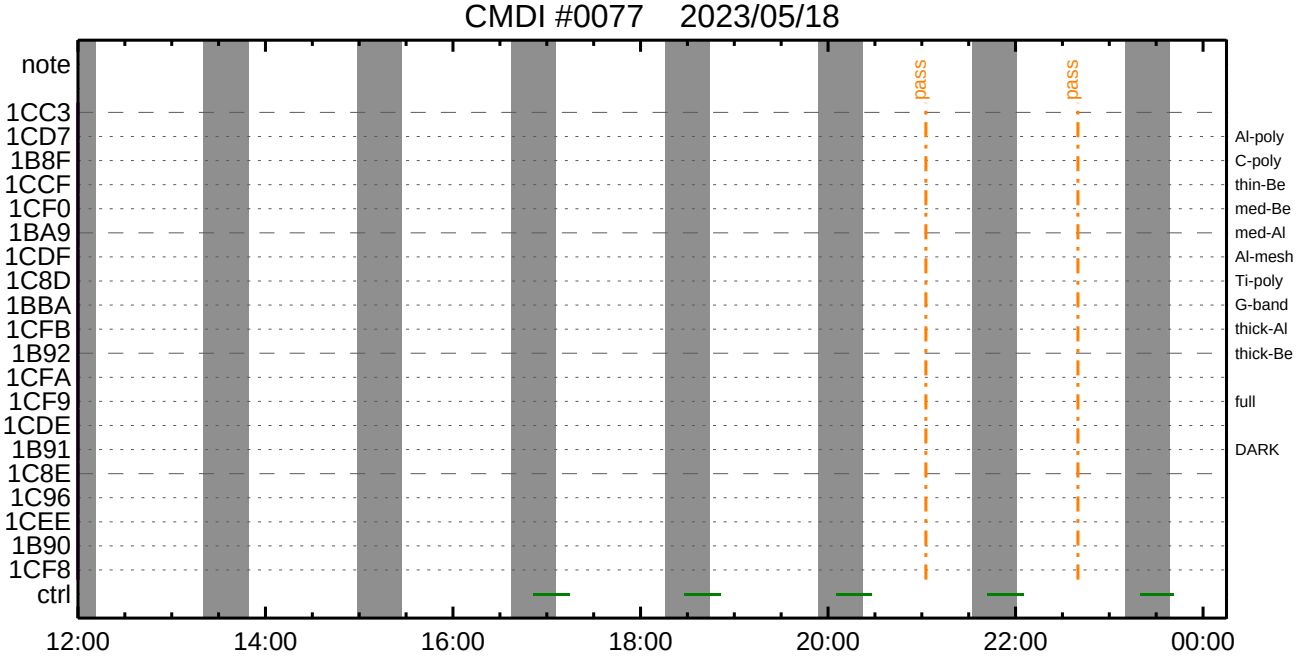

CMDI #0077 2023/05/16
note
before Tbl up
after Tbl up
20 1CC8 1CC3 : HOP361 - High cadence (10s thin-Be only) 256x256 a ...
19 1CD7 1CD7
18 1CD0 1B8F : CCD Monitor During Bakeout - G-band 1ms - 1kx1k - ...
17 1CCF 1CCF : HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], A ...
16 1CE5 1CF0 : Synoptic 8 Filter w/ Al-mesh(5/128/723); Al-poly(1 ...
15 1BA9 1BA9
14 1CDF 1CDF
13 1C8D 1C8D : Alignment with North Pole Al/poly 1443ms Q95 2x2 (...
12 1BBA 1BBA : AR - Standard Core - (Filter-Ratio with Al/poly an ...
11 1CFB 1CFB
10 1BFE 1B92 : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
9 1CFA 1CFA
8 1CF9 1CF9
7 1CDE 1CDE
6 1CD1 1B91 : CCD Monitor During Bakeout - G-band 1ms - 1kx1k - ...
5 1C8E 1C8E : Alignment with East limb Al/poly 1443ms Q95 2x2 (G ...
4 1C96 1C96 : Flare - multifilter 26 sec cadence (Be/thin, Be/me ...
3 1CEE 1CEE : Synoptic 8 Filter w/ Al-mesh(5/128/723); Al-poly(1 ...
2 1BD6 1B90 : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
1 1CF8 1CF8 : Stray light study 2023-01; Al-mesh and Al-poly, 2x ...
ctrl Table upload : 3rd pass (2023/05/16 10:23:20)
pass
pass
pass
track4
OTF
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

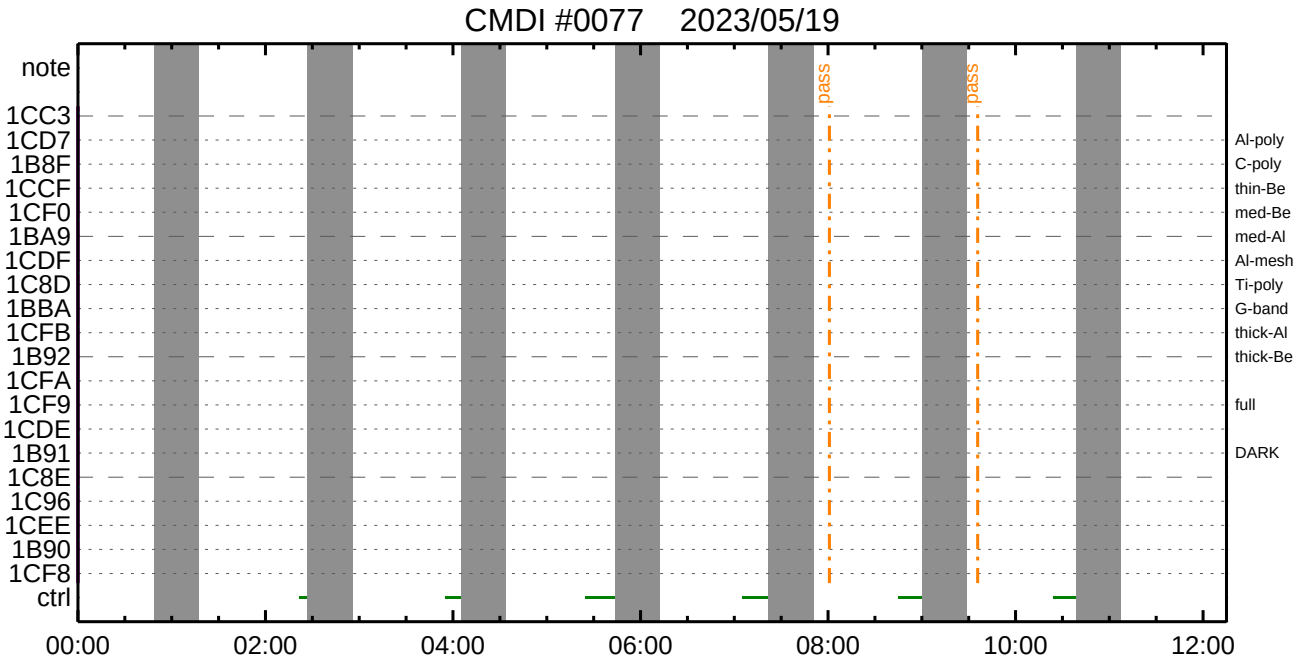

CMDI #0077 2023/05/16
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
pass
pass
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

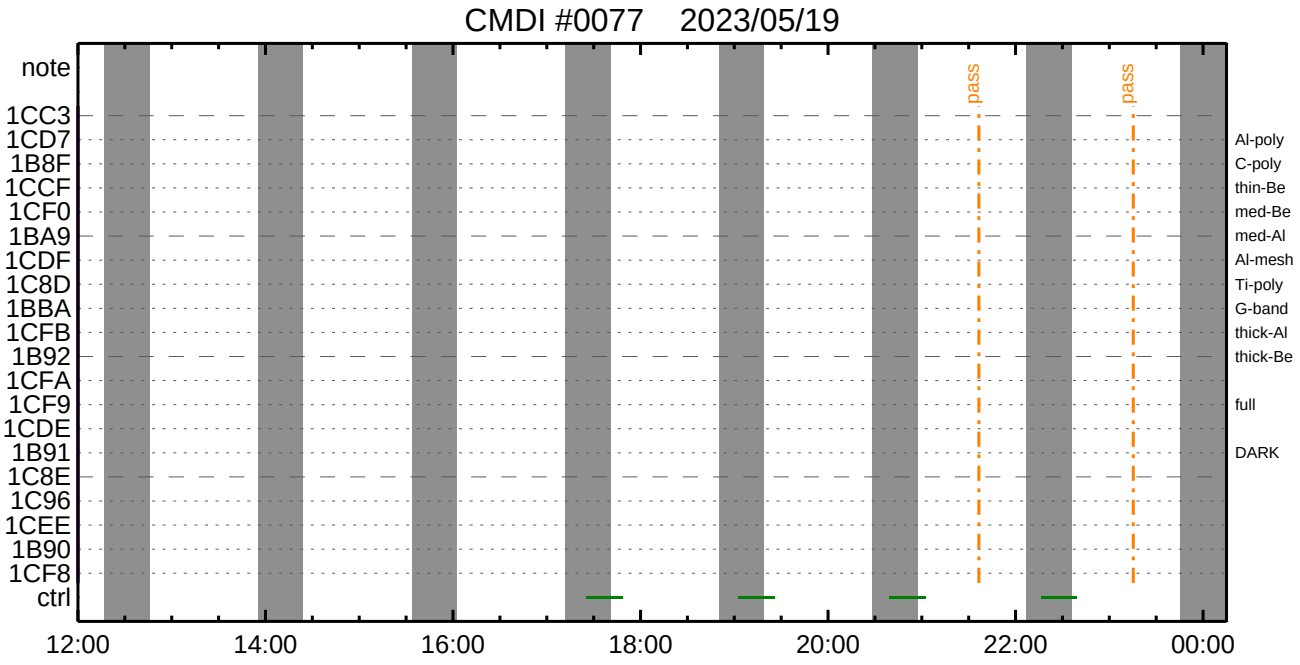

CMDI #0077 2023/05/17
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
track0
track2
pass
pass
track0
track0
track0
QT
QT
QT
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

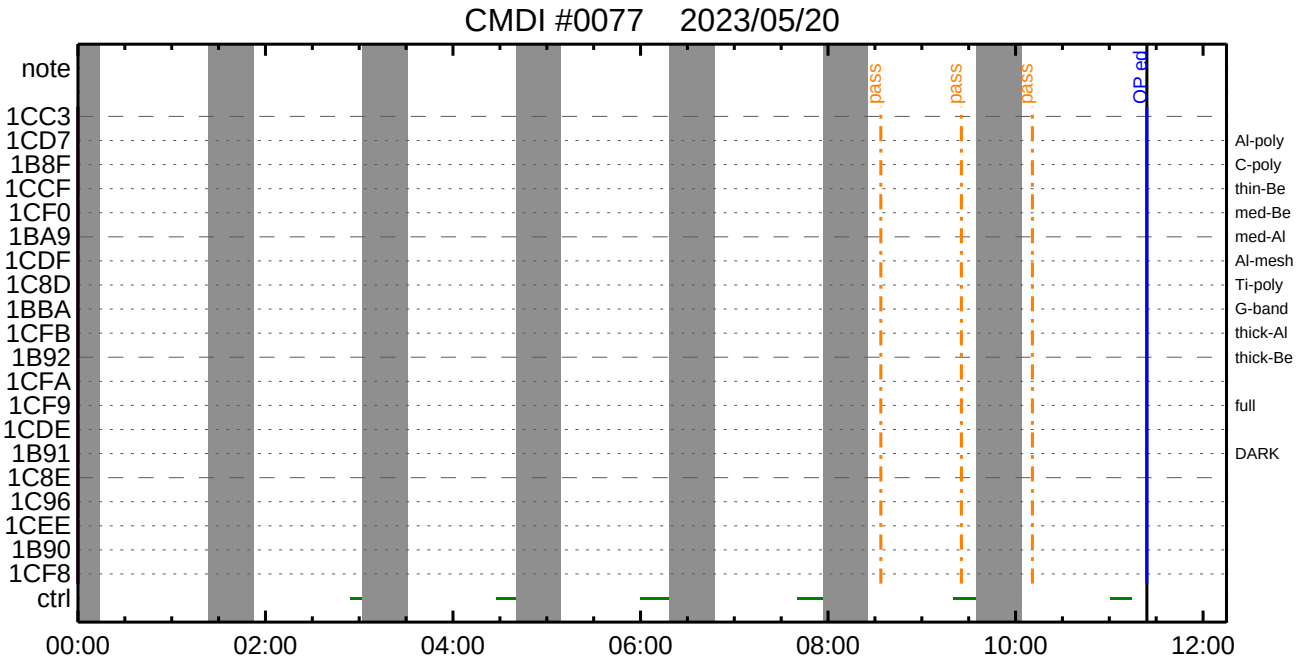

CMDI #0077 2023/05/17
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
track0
track4
QT
FL
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

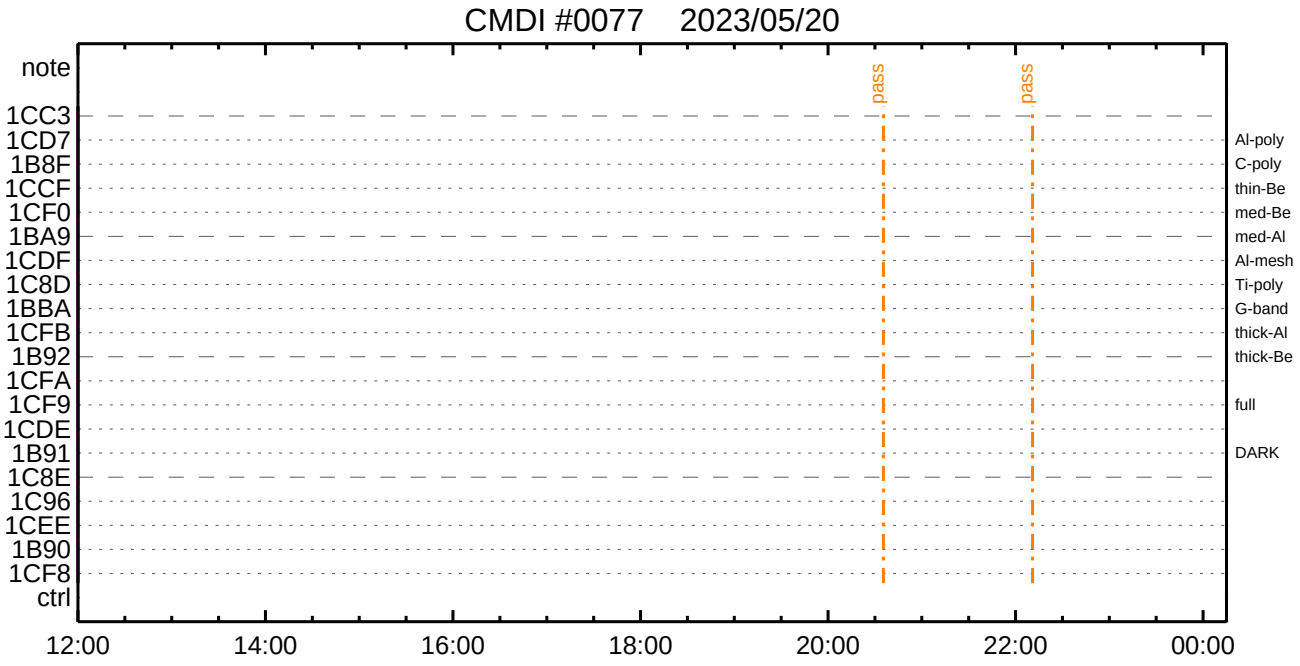

CMDI #0077 2023/05/18
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
track0
track2
pass
QT
FL
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0077 2023/05/18
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
pass
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0077 2023/05/19
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
pass
pass
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0077 2023/05/19
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
pass
pass
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0077 2023/05/20
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
pass
pass
pass
OP end
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0077 2023/05/20
note
1CC3
1CD7
1B8F
1CCF
1CF0
1BA9
1CDF
1C8D
1BBA
1CFB
1B92
1CFA
1CF9
1CDE
1B91
1C8E
1C96
1CEE
1B90
1CF8
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

```
(a) Spacecraft Operation Procedure (real-commands)

main-855 2023-05-16 12:33:24 289 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ËËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»Þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢¢Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÈÀÚÂØ¤äÅ•Äº²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
     C.
     C.
   . C. ****************************
     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
     C. ****************************
     C.
   . C. ¡ãOP/OG¥í¡¼¥É¡ä
   . S. OP    op-855:OP
     ()
   . S. OG    og-855:OG
     ()
     C.
   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
  +. DC 01-23 DHU_DMA_DMP_PRM_SET
     BC         (20 00 7f 01 02)
     C.                        ¢¢[HK1_DMP_TOP_ADRS_1]           EQ      40
     C.                        ¢¢[HK1_DMP_TOP_ADRS_0]           EQ      0
     C.                        ¢¢[HK1_DMP_BLOCK_NUM]            EQ      127
     C.                        ¢¢[HK1_DMP_REPEAT_NUM]           EQ      0
     C.                        ¢¢[HK1_DMA_DMP_PIM]              EQ      DHU
  +. DC 01-22 DHU_MODE_CHNG
     BC         (07 0b f8)
     C.                        ¢¢[HK1_PKT_FORM_NO]              EQ      7
     C.                        ¢¢[HK1_PKT_GEN_TIME]             EQ      0.25 s
     C.                        ¢¢[HK1_S_TLM_BIT_RATE]           EQ      32k
     C.                        ¢¢[HK1_X_TLM_BIT_RATE]           EQ      4M
     C.                        ¢¢[HK1_DMP_CHK_FLG]              EQ      EXEC
   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
     C.                        ¢¢[HK1_DMP_CHK_FLG]              EQ      NON
   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
     C.
     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
  +. DC 01-23 DHU_DMA_DMP_PRM_SET
     BC         (20 80 7f 01 02)
     C.                        ¢¢[HK1_DMP_TOP_ADRS_1]           EQ      41
     C.                        ¢¢[HK1_DMP_TOP_ADRS_0]           EQ      0
     C.                        ¢¢[HK1_DMP_BLOCK_NUM]            EQ      127
     C.                        ¢¢[HK1_DMP_REPEAT_NUM]           EQ      0
     C.                        ¢¢[HK1_DMA_DMP_PIM]              EQ      DHU
  +. DC 01-22 DHU_MODE_CHNG
     BC         (07 0b f8)
     C.                        ¢¢[HK1_PKT_FORM_NO]              EQ      7
     C.                        ¢¢[HK1_PKT_GEN_TIME]             EQ      0.25 s
     C.                        ¢¢[HK1_S_TLM_BIT_RATE]           EQ      32k
     C.                        ¢¢[HK1_X_TLM_BIT_RATE]           EQ      4M
     C.                        ¢¢[HK1_DMP_CHK_FLG]              EQ      EXEC
   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
     C.                        ¢¢[HK1_DMP_CHK_FLG]              EQ      NON
   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
     C.
     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
  +. DC 01-23 DHU_DMA_DMP_PRM_SET
     BC         (21 00 41 01 02)
     C.                        ¢¢[HK1_DMP_TOP_ADRS_1]           EQ      42
     C.                        ¢¢[HK1_DMP_TOP_ADRS_0]           EQ      0
     C.                        ¢¢[HK1_DMP_BLOCK_NUM]            EQ      65
     C.                        ¢¢[HK1_DMP_REPEAT_NUM]           EQ      0
     C.                        ¢¢[HK1_DMA_DMP_PIM]              EQ      DHU
  +. DC 01-22 DHU_MODE_CHNG
     BC         (07 0b f8)
     C.                        ¢¢[HK1_PKT_FORM_NO]              EQ      7
     C.                        ¢¢[HK1_PKT_GEN_TIME]             EQ      0.25 s
     C.                        ¢¢[HK1_S_TLM_BIT_RATE]           EQ      32k
     C.                        ¢¢[HK1_X_TLM_BIT_RATE]           EQ      4M
     C.                        ¢¢[HK1_DMP_CHK_FLG]              EQ      EXEC
   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
     C.                        ¢¢[HK1_DMP_CHK_FLG]              EQ      NON
   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
     C.
   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
     C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤ÒÌá¤¹
  +. DC 01-22 DHU_MODE_CHNG
     BC         (02 0a f8)
     C.                        ¢¢[HK1_PKT_FORM_NO]              EQ      2
     C.                        ¢¢[HK1_PKT_GEN_TIME]             EQ      0.5S
     C.                        ¢¢[HK1_S_TLM_BIT_RATE]           EQ      32K
     C.                        ¢¢[HK1_X_TLM_BIT_RATE]           EQ      4M
     C.
   . C. *********************************
     C. TI-CMD SET (OPOG STOP/COPY/START)
     C. *********************************
     C.
   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
     C.
   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
  +. TI 2023-05-16 10:56:00.0
     DC 01-B3 DHU_OP_STOP
     C.                        ¢¢[HK1_TI_CMD_NUM]               EQ      1COUNTUP
     C.
  +. TI 2023-05-16 10:56:01.0
     DC 01-B4 DHU_OP_COPY
     C.                        ¢¢[HK1_TI_CMD_NUM]               EQ      1COUNTUP
     C.
  +. TI 2023-05-16 10:56:01.0
     DC 01-B5 DHU_OPOG_COPY
     C.                        ¢¢[HK1_TI_CMD_NUM]               EQ      1COUNTUP
```

```
0194     C.
0195   +. TI 2023-05-16 11:00:59.5
0196     DC 01-B2 DHU_OP_START
0197     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0198     C.
0199     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0200     C.                      ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0201     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     4
0202     C.                      ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0203     C.                      ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0204     C.
0205    . C. ****************************
0206     C. TIÎÎ°è¥À¥ó¥×
0207     C. ****************************
0208     C.
0209     C. TI_TBL(0x03AB00-0x03AEFF¡§ 1024byte)
0210   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211     BC       (03 ab 03 01 02)
0212     C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0213     C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0214     C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0215     C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0216     C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0217   +. DC 01-22 DHU_MODE_CHNG
0218     BC       (07 0b f8)
0219     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
0220     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0221     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0222     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0223     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0224     C.
0225    . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0226     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0227     C.
0228    . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0229     C.
0230    . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0231   +. DC 01-22 DHU_MODE_CHNG
0232     BC       (02 0a f8)
0233     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
0234     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0235     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0236     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0237     C.
0238     C. ********************************
0239     C.  SOT TI command set
0240     C. ********************************
0241     C. Execute, after the success of OP upload.
0242   +. TI 2023-05-16 11:00:16.0
0243     DC 07-F0 MDP_SOT_MODE_STBY
0244     BC       (41)
0245    . C. ------------------------------------
0246     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0247     C. ------------------------------------
0248     C. ************ SOT END ***********
0249    . C. Stop EIS observation and temporarily disable EIS mode changes
0250     C.
0251     C.
0252     C. ********** Start EIS operation (TI set) **********
0253     C. Execute, after the success of OP upload.
0254     C. Set EIS TI-commands
0255   +. TI 2023-05-16 11:00:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258   +. TI 2023-05-16 11:00:40.0
0259     DC 07-FC EIS_MODE_CHG_DIS
0260     BC       (22)
0261    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0262     C. ************ End EIS operation (TI set) ***********
0263     C.
0264     C.
0265     C.
0266     C. ************ XRT START ***********
0267     C. Execute, after the success of OP upload.
0268   +. TI 2023-05-16 11:00:00.0
0269     DC 07-F0 MDP_XRT_MODE_STBY
0270     BC       (c3)
0271    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0272     C.
0273     C. ************ XRT END ***********
0274     C.
0275    . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0276     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0277    . S. DC-BC dcbc-402:DCBC
0278     (MDP_known_event)
0279     C.
0280     C.
0281    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0282    . S. DC-BC dcbc-153:DCBC
0283     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284     C.
0285     C.
0286    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0287     C.
0288    . C. ********** LOS **********
0289     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-856 2023-05-16 12:33:24 94 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ***** AOCS Commands (Tracking Curve Upload) ******
0015     C. Upload the Orbit Element and the Target Attitude
0016     C. RAM-ID:TARGET_ATT
0017   . S. RAM   ram-150:TARGET_ATT
0018     ()
0019     C.
0020     C.
0021     C. Set the dump memory area of TARGET_ATT
0022   +. DC 02-48 AOCU_DUMP_SET
0023     BC       (07 00 00 00 18 00)
0024     C.
0025     C.    <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026     C.
0027     C.
0028     C. Change the TLMFormatNo for the AOCS Dump Format
0029   +. DC 01-22 DHU_MODE_CHNG
0030     BC       (04 0b f8)
0031     C.
0032     C. Wait for AOCSDUMP to end
0033     C.
0034   . C. Check the dump memory
0035     C.
0036     C.                                      Result = OK [ ]
0037     C.
0038   +. DC 01-22 DHU_MODE_CHNG
0039     BC       (02 0a f8)
0040     C.
0041     C.                          <A_***>[TLM STS] FMT = 2 [ ]
0042     C.
0043   +. DC 02-8E AOCU_ORB_UPD
0044   . C.
0045   . C. ***** AOCS Commands (Orbital Element Update) *****
0046     C. Update the orbital element
0047   +. DC 02-50 AOCU_ORB_PRPGT_START
0048     BC       (16)
0049   +  DC 02-8E AOCU_ORB_UPD
0050     C.
0051     C.       <A_ORB>[ORBIT] EPC = 4812420.3 +- 1.0 (s) [ ]
0052     C.
0053   . C.
0054   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0055   +. DC 07-FC EIS_MODE_CHG_ENA
0056     BC       (20)
0057   . C. Verify EIS_MODE_CHG_FLG is ENA
0058   +. DC 07-FC EIS_MODE_MANU
0059     BC       (21 02)
0060   . C. Verify EIS in MANUAL mode
0061   . C. Estimated OBSTBL upload time is 16s
0062     C. ********************************
0063     C. EIS START OBSTBL LOAD
0064     C. ********************************
0065   . S. RAM   ram-820:EIS_OBSTBL
0066     ()
0067   +. DC 07-FC EIS_DUMP_OBSTBL
0068     BC       (07 07 07 00 00 70 00)
0069     C.
0070     C. Execute, after the success of OBSTBL upload.
0071     C. Set EIS TI-commands
0072   +. TI 2023-05-16 11:00:50.0
0073     DC 07-FC EIS_MODE_CHG_ENA
0074     BC       (20)
0075   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0076     C. ********************************
0077     C. EIS END OBSTBL LOAD
0078     C. ********************************
0079     C.
0080   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0081     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0082   . S. DC-BC dcbc-402:DCBC
0083     (MDP_known_event)
0084     C.
0085     C.
0086   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0087   . S. DC-BC dcbc-153:DCBC
0088     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0089     C.
0090     C.
0091   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0092     C.
0093   . C. *********** LOS ***********
0094     C.
```

```
(a) Spacecraft Operation Procedure (real-commands)

main-857 2023-05-16 12:33:24 138 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¾¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ********************************
0015     C.  SOT table upload
0016     C. ********************************
0017   . C. < Stop SP table >
0018   +. DC 07-F0 MDP_SP_CTRL_MANU
0019     BC       (61)
0020     C. ------------------------------------
0021     C.  MDP_SP_CTRL_MODE      = MANU    [ ]
0022     C. ------------------------------------
0023     C.
0024   . C. <Upload SP Observation Table>
0025   . S. RAM   ram-284:MDP_OBS_S
0026     ()
0027     C.
0028   . C. < Dump RAMID=MDP_OBS_S >
0029   +. DC 07-F0 MDP_DUMP_SPTBL
0030     BC       (83 07 00 00 00 38 b8)
0031     C. ------------------------------------
0032     C.  MDP_OBS_S verify = OK/NG        [ ]
0033     C. ------------------------------------
0034     C.
0035     C. ********************************
0036     C.  SOT TI command set
0037     C. ********************************
0038     C. Execute, after the success of TBL upload.
0039   +. TI 2023-05-16 11:00:18.0
0040     DC 07-F0 MDP_SOT_MODE_OBSV
0041     BC       (40)
0042   . C. ------------------------------------
0043     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0044     C. ------------------------------------
0045     C.
0046     C.
0047     C. ************ XRT START ************
0048     C.
0049   +. DC 07-F0 MDP_XRT_CTRL_MANU
0050     BC       (c1)
0051   +  DC 07-F0 MDP_XRT_MODE_STBY
0052     BC       (c3)
0053   . C. ----------- Success Verify ?             OK / NG____
0054     C.
0055     C. XRT Obs. Table Upload
0056   . S. RAM   ram-291:MDP_OBS_X
0057     ()
0058     C.
0059   +. DC 07-F0 MDP_DUMP_XRTTBL
0060     BC       (84 07 00 00 00 3a d4)
0061   . C. ----------- Comparison Check ?                      OK / ERR ____
0062     C.
0063     C.
0064   +. DC 07-F0 MDP_XRT_ROI_SET
0065     BC       (cd 01 b1 b1 04 04)
0066   +  DC 07-F0 MDP_XRT_ROI_SET
0067     BC       (cd 02 b1 b1 08 08)
0068   +  DC 07-F0 MDP_XRT_ROI_SET
0069     BC       (cd 03 b1 b1 08 08)
0070   +  DC 07-F0 MDP_XRT_ROI_SET
0071     BC       (cd 04 b1 b1 06 06)
0072   +  DC 07-F0 MDP_XRT_ROI_SET
0073     BC       (cd 05 85 83 06 06)
0074   +  DC 07-F0 MDP_XRT_ROI_SET
0075     BC       (cd 06 80 80 20 20)
0076   +  DC 07-F0 MDP_XRT_ROI_SET
0077     BC       (cd 07 80 80 20 08)
0078   +  DC 07-F0 MDP_XRT_ROI_SET
0079     BC       (cd 08 80 80 08 20)
0080   +  DC 07-F0 MDP_XRT_ROI_SET
0081     BC       (cd 09 c0 c0 10 10)
0082   +  DC 07-F0 MDP_XRT_ROI_SET
0083     BC       (cd 0a 40 c0 10 10)
0084   +  DC 07-F0 MDP_XRT_ROI_SET
0085     BC       (cd 0b 40 40 10 10)
0086   +  DC 07-F0 MDP_XRT_ROI_SET
0087     BC       (cd 0c c0 40 10 10)
0088   +  DC 07-F0 MDP_XRT_ROI_SET
0089     BC       (cd 0d 85 83 06 06)
0090   +  DC 07-F0 MDP_XRT_ROI_SET
0091     BC       (cd 0e 80 80 06 06)
0092   +  DC 07-F0 MDP_XRT_ROI_SET
0093     BC       (cd 0f 80 80 06 06)
0094   +  DC 07-F0 MDP_XRT_ROI_SET
0095     BC       (cd 10 80 80 08 08)
```

```
0096  +  DC 07-F0 MDP_XRT_FLD_ENA
0097     BC       (d8)
0098  +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0099     BC       (c8)
0100  +  DC 07-F0 MDP_XRT_ARS_DIS
0101     BC       (d5)
0102  +  DC 07-F0 MDP_XRT_AEC_RESET
0103     BC       (d0)
0104  +  DC 07-F0 MDP_XRT_FLD_RESET
0105     BC       (da)
0106  +. DC 07-F0 MDP_XRT_QT_PROG_SET
0107     BC       (c4 03)
0108  +. DC 07-F0 MDP_XRT_FL_PROG_SET
0109     BC       (c5 04)
0110   . C. ---------- Success Verify ?            OK / NG ____
0111     C.
0112     C.
0113   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0114     C.
0115  +. DC 07-F0 MDP_XRT_MODE_OBSV
0116     BC       (c2)
0117  +. TI 2023-05-16 11:00:02.0
0118     DC 07-F0 MDP_XRT_MODE_OBSV
0119     BC       (c2)
0120   . C. ---------- Success Verify ?            OK / NG ____
0121     C.
0122     C. ************ XRT END ***********
0123     C.
0124   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0125     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0126   . S. DC-BC dcbc-402:DCBC
0127     (MDP_known_event)
0128     C.
0129     C.
0130   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0131   . S. DC-BC dcbc-153:DCBC
0132     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0133     C.
0134     C.
0135   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0136     C.
0137   . C. *********** LOS ***********
0138     C.
```

```
*** OP Sequence for XRT ***

2023/05/16  11:11:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 04 05 0e 01 99
2023/05/16  12:11:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  12:11:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  12:11:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  12:11:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  12:14:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/16  13:49:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  13:49:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  13:49:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  13:49:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  13:52:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/16  15:28:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  15:28:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  15:28:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  15:28:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  15:31:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/16  17:06:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  17:06:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  17:06:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  17:06:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  17:09:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/16  18:44:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  18:44:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  18:44:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  18:44:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  18:47:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/16  20:23:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  20:23:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  20:23:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  20:23:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  20:26:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/16  22:01:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  22:01:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  22:01:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  22:01:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  22:04:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/16  23:39:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  23:39:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/16  23:39:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/16  23:39:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/16  23:42:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  01:18:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  01:18:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  01:18:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  01:18:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  01:21:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
```

```
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  02:48:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  02:48:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  02:48:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  02:48:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  02:51:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  04:23:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  04:23:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  04:23:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  04:23:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  04:26:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  05:27:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2023/05/17  05:30:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  05:30:02.0  XRT_TCIB_XRT_S_HTR_A_DIS_441_OG [0x1b9]
                                        TCIB_XRT_S_HTR_A_DIS 0 04-C0
2023/05/17  05:37:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 02 05 0e 01 99
2023/05/17  05:54:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  05:54:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  05:54:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  05:54:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  05:57:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  07:34:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  07:34:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  07:34:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  07:34:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  07:37:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  09:14:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  09:14:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  09:14:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  09:14:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  09:17:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  10:54:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  10:54:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  10:54:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  10:54:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  10:57:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  11:30:00.0  XRT_CTRL_MANU_404_OG [0x194]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  11:30:10.0  XRT_FOCUS_RECALIBRATE_445_OG [0x1bd]
                                        XRT_FOCUS_RECAL      2 07-F8 78 00
2023/05/17  11:34:10.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  11:36:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  11:36:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  11:36:58.0  XRT_FOCUS_POSITION_443_OG [0x1bb]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  11:37:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                        AOCU_NM              5 02-76 00 2e f9 2e f9
2023/05/17  11:39:52.0  XRT_ARS_DIS_427_OG [0x1ab]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  11:39:54.0  XRT_FLRCTRL_DIS_449_OG [0x1c1]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/17  11:39:56.0  XRT_FLD_DIS_417_OG [0x1a1]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/17  11:39:58.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 12
2023/05/17  11:40:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
```

```
2023/05/17  11:46:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  11:46:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  11:46:58.0  XRT_FOCUS_POSITION_443_OG [0x1bb]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  11:47:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 00 2e f9 d1 07
2023/05/17  11:49:52.0  XRT_ARS_DIS_427_OG [0x1ab]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  11:49:54.0  XRT_FLRCTRL_DIS_449_OG [0x1c1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/17  11:49:56.0  XRT_FLD_DIS_417_OG [0x1a1]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/17  11:49:58.0  XRT_QT_PROG_SET_414_OG [0x19e]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2023/05/17  11:50:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  12:06:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:06:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:06:58.0  XRT_FOCUS_POSITION_443_OG [0x1bb]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  12:07:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 d1 07 d1 07
2023/05/17  12:09:52.0  XRT_ARS_DIS_427_OG [0x1ab]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  12:09:54.0  XRT_FLRCTRL_DIS_449_OG [0x1c1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/17  12:09:56.0  XRT_FLD_DIS_417_OG [0x1a1]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/17  12:09:58.0  XRT_QT_PROG_SET_421_OG [0x1a5]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 06
2023/05/17  12:10:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  12:16:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:16:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:16:58.0  XRT_FOCUS_POSITION_443_OG [0x1bb]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  12:17:00.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                AOCU_NM              5 02-76 00 d1 07 2e f9
2023/05/17  12:19:52.0  XRT_ARS_DIS_427_OG [0x1ab]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  12:19:54.0  XRT_FLRCTRL_DIS_449_OG [0x1c1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/17  12:19:56.0  XRT_FLD_DIS_417_OG [0x1a1]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/17  12:19:58.0  XRT_QT_PROG_SET_429_OG [0x1ad]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2023/05/17  12:20:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  12:26:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:26:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:26:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  12:27:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2023/05/17  12:27:18.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/17  12:27:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/17  12:27:22.0  XRT_ARS_DIS_401_OG [0x191]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  12:29:58.0  XRT_QT_PROG_SET_425_OG [0x1a9]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2023/05/17  12:30:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  12:36:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:36:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:36:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2023/05/17  12:37:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 04 05 0e 01 99
2023/05/17  12:37:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2023/05/17  12:37:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2023/05/17  12:37:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2023/05/17  12:37:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  12:37:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  12:39:56.0  XRT_QT_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2023/05/17  12:39:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
```

```
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2023/05/17  12:40:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  12:46:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:46:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  12:46:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  12:46:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  12:49:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  13:14:30.0  XRT_Custom_430_OG [0x1ae]
2023/05/17  13:15:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  14:24:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  14:24:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  14:24:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  14:24:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  14:27:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  14:52:30.0  XRT_Custom_430_OG [0x1ae]
2023/05/17  14:53:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  16:02:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  16:02:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  16:02:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  16:02:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  16:05:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  16:35:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  16:35:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  16:35:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  16:35:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  16:38:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  16:40:30.0  XRT_Custom_430_OG [0x1ae]
2023/05/17  16:41:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  17:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  17:24:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  17:24:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  17:25:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2023/05/17  17:25:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/17  17:25:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/17  17:25:22.0  XRT_ARS_DIS_401_OG [0x191]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  17:27:58.0  XRT_QT_PROG_SET_425_OG [0x1a9]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2023/05/17  17:28:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  17:38:00.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  17:38:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  17:38:04.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/17  17:38:24.0  XRT_FLD_DIS_435_OG [0x1b3]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/17  17:40:24.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/17  17:40:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  17:40:28.0  XRT_QT_PROG_SET_447_OG [0x1bf]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 01
2023/05/17  17:40:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  17:49:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  17:49:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  17:49:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2023/05/17  17:50:00.0  AOCS_ORe-point_Start_1_OG [0x097]
```

```
                                    AOCU_NM              5 02-76 04 05 0e 01 99
2023/05/17  17:50:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2023/05/17  17:50:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2023/05/17  17:50:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2023/05/17  17:50:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/17  17:50:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  17:52:56.0  XRT_QT_PROG_SET_439_OG [0x1b7]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2023/05/17  17:52:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2023/05/17  18:17:00.0  XRT_Custom_430_OG [0x1ae]
2023/05/17  18:18:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  19:19:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  19:19:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  19:19:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  19:19:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  19:22:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  19:54:00.0  XRT_Custom_430_OG [0x1ae]
2023/05/17  19:55:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  20:57:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  20:57:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  20:57:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  20:57:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  21:00:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  21:31:00.0  XRT_Custom_430_OG [0x1ae]
2023/05/17  21:32:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/17  22:36:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  22:36:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/17  22:36:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/17  22:36:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/17  22:39:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/17  23:07:00.0  XRT_Custom_430_OG [0x1ae]
2023/05/17  23:08:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  00:00:00.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                    AOCU_NM              5 02-76 00 ad 59 00 00
2023/05/18  00:10:55.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  00:10:57.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  00:10:59.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/18  00:11:19.0  XRT_FLD_DIS_435_OG [0x1b3]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/18  00:13:19.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/18  00:13:21.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/18  00:13:23.0  XRT_ROI_A_428_OG [0x1ac]
                                    MDP_XRT_ROI_SET      6 07-F0 cd 06 80 80 20 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 07 80 80 20 08
                                    MDP_XRT_ROI_SET      6 07-F0 cd 08 80 80 08 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 09 80 60 20 18
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0a a0 80 18 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0b 80 80 08 08
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0c 85 83 04 04
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0e 80 80 06 06
2023/05/18  00:13:23.5  XRT_ROI_B_405_OG [0x195]
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0e 80 80 06 06
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0f 80 80 06 06
                                    MDP_XRT_ROI_SET      6 07-F0 cd 10 80 80 08 08
2023/05/18  00:13:28.5  XRT_QT_PROG_SET_447_OG [0x1bf]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 01
2023/05/18  00:13:30.5  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  00:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  00:24:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  00:24:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
```

```
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2023/05/18  00:25:18.0  XRT_FLD_DIS_426_OG [0x1aa]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/18  00:39:54.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/18  00:39:56.0  XRT_ARS_DIS_427_OG [0x1ab]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/18  00:39:58.0  XRT_QT_PROG_SET_432_OG [0x1b0]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0d
2023/05/18  00:40:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  02:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  02:24:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  02:24:58.0  XRT_FOCUS_POSITION_433_OG [0x1b1]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2023/05/18  02:25:00.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                    AOCU_NM              5 02-76 00 00 00 56 35
2023/05/18  02:25:18.0  XRT_FLD_DIS_426_OG [0x1aa]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/18  02:39:54.0  XRT_ARS_DIS_427_OG [0x1ab]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/18  02:39:56.0  XRT_FLRCTRL_DIS_449_OG [0x1c1]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/18  02:39:58.0  XRT_QT_PROG_SET_403_OG [0x193]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2023/05/18  02:40:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  04:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  04:24:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  04:24:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/18  04:25:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2023/05/18  04:25:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2023/05/18  04:25:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2023/05/18  04:25:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2023/05/18  04:25:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/18  04:25:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/18  04:27:56.0  XRT_QT_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2023/05/18  04:27:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2023/05/18  04:28:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  04:49:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  04:49:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  04:49:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/18  04:49:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/18  04:52:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/18  05:37:30.0  XRT_Custom_430_OG [0x1ae]
2023/05/18  05:38:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  06:00:00.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  06:00:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  06:00:04.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2023/05/18  06:00:24.0  XRT_FLD_DIS_409_OG [0x199]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/18  06:00:26.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/18  06:00:28.0  XRT_ARS_DIS_401_OG [0x191]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/18  06:03:04.0  XRT_QT_PROG_SET_425_OG [0x1a9]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2023/05/18  06:03:06.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  06:10:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  06:10:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  06:10:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2023/05/18  06:11:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM              5 02-76 02 05 0e 01 99
2023/05/18  06:11:18.0  XRT_FLD_DIS_409_OG [0x199]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2023/05/18  06:11:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
```

```
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2023/05/18  06:11:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2023/05/18  06:11:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2023/05/18  06:11:26.0  XRT_FLD_RESET_420_OG [0x1a4]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/18  06:13:58.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2023/05/18  06:14:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  06:29:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  06:29:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  06:29:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/18  06:29:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/18  06:32:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/18  07:16:00.0  XRT_Custom_430_OG [0x1ae]
2023/05/18  07:17:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  08:09:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  08:09:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  08:09:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/18  08:09:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/18  08:12:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/18  08:54:30.0  XRT_Custom_430_OG [0x1ae]
2023/05/18  08:55:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  09:49:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  09:49:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  09:49:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2023/05/18  09:49:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2023/05/18  09:52:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2023/05/18  10:32:30.0  XRT_Custom_430_OG [0x1ae]
2023/05/18  10:33:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2023/05/18  11:13:00.5  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2023/05/18  11:29:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
```