XRT Timeline to be uploaded on 2021/09/28

Period: 2021/09/28 09:59:00 - 2021/10/02 10:55:00

* * * * * **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
09/29 12:33:00 - 09/29 12:39:54	Fixed (-528.4, -528.4)	XRT post bakeout #1

PROG= 13 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
09/29 12:43:00 - 09/29 12:49:54	Fixed (528.4, -528.4)	XRT post bakeout #2

PROG= 09 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
09/29 12:53:00 - 09/29 12:59:54	Fixed (528.4, 528.4)	XRT post bakeout #3

PROG= 17 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
09/29 13:03:00 - 09/29 13:09:54	Fixed (-528.4, 528.4)	XRT post bakeout #4

PROG= 07 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 #1BA8: Synoptic 7 Filter w/ Al-mesh(24/256/2897), Al-poly(45/512/4096), Thin-Be(181/2048/11571) - Thick-Be(65536), Al-poly+Ti-poly(256/5795), Med-Al

Term	Pointing (x, y)	Comment
09/29 13:13:00 - 09/29 13:19:54	Fixed (0.0, 0.0)	post bakeout synoptics

PROG= 08 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= 1 1-time(s) 2.0sec													
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	24ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Seqn= 99 1-time(s) 2.0sec													
Al-poly/Open	Al-poly/Open	close	Safe	Norm	44ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
Seqn= 53 1-time(s) 2.0sec													
thin-Be/Open	thin-Be/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec	
thin-Be/Open	thin-Be/Open	close	Safe	Norm	11.3s	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 2-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= 13 2-time(s) 2.0sec													
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
Seqn= 45 2-time(s) 2.0sec													
med-Al/Open	med-Al/Open	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec	
med-Al/Open	med-Al/Open	close	Safe	Norm	32.0s	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 #1CBA: HOP421MaGIX - High cadence (8s thin-Be only) 384x384 at 1064 1048

Term	Pointing (x, y)	Comment
09/29 13:23:00 - 09/29 16:29:54	Track (681.2, -548.4) @ 09/29 13:20:00	# HOP 361 AR12871

PROG= 16 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 67 1-time(s) 2.0sec													
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec	
Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec	
Seqn= 43 1-time(s) 2.0sec													
Open/G-band	Open/G-band	close	Safe	Norm	63ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec	
Subr= 2 1-time(s) 2.0sec													
Seqn= 22 250-time(s) 8.0sec													
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec	
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval	

XOB #1C09: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 60s cadence, G-band - 384x384 1ms

Term	Pointing (x, y)	Comment
09/29 16:33:00 - 09/29 17:43:00	Track (77.4, -7.9) @ 09/29 16:30:00	# HOP 420 E-hemi. Quiet Sun
09/29 18:19:30 - 09/29 21:59:54	Track (93.7, -7.6) @ 09/29 18:16:30	# HOP420 cont.

PROG= 11 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 16 2-time(s) 2.0sec													
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec	
Subr= 2 1-time(s) 2.0sec													
Seqn= 90 1-time(s) 30.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	Q=90	0	0	2.0sec	
Subr= 3 60-time(s) 60.0sec													
Seqn= 57 1-time(s) 30.0sec													
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	4.00s	Obs	1x1	384x384 (1064, 1048)	Q=90	0	0	2.0sec	
Al-poly/Open	Al-poly/Open	close	Safe	Norm	5.66s	Obs	1x1	384x384 (1064, 1048)	Q=90	0	0	2.0sec	
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval	

XOB #1BC0: Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(12/181/1443) + Th

Term	Pointing (x, y)	Comment
09/29 18:09:30 - 09/29 18:16:24	Fixed (0.0, 0.0)	synoptic, shifted 6.5 min Also for EIS
09/30 05:55:00 - 09/30 06:01:54	Fixed (0.0, 0.0)	synoptic, shifted -8.0 min

PROG= 12 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 5 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 63 1-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/Al-mesh	close	Safe	Norm	8ms	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	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 15 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 27 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	thin-Be/Open	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 23 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 #1BA3: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, thin-Be, thick-Al, Al/Poly context, with G-band (1ms/1ms

Term	Pointing (x, y)	Comment
09/29 22:03:00 - 09/30 01:59:54	Track (715.2, -541.7) @ 09/29 22:00:00	# AR12871 tracking
09/30 06:05:00 - 09/30 11:01:00	Track (742.7, -535.2) @ 09/30 06:02:00	# AR12871 tracking

PROG= 20 Inf.-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 92 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	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

Seqn= 42 3-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	5.66s	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec

Seqn= 32 40-time(s) 90.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	34.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	34.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec

XOB #1CBD: HOP349 - 3-filter Synoptics (Al-mesh[24/256/2897], Al-poly[45/512/4096], thin-Be[181/2048/11571] with 512x512 G-band+Leak - 45min cad) + C

Term	Pointing (x, y)	Comment
09/30 02:03:05 - 09/30 05:51:54	Fixed (0.0, 0.0)	HOP 349 (XRT Synoptic campaign)

PROG= 18 Inf.-time(s)

Subr= 1 1-time(s) 600.0sec

Seqn= 1 1-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/Al-mesh	close	Safe	Norm	24ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 99 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	44ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 53 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	thin-Be/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 30 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	close	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=95	0	0	2.0sec

Subr= 2 5-time(s) 480.0sec

Seqn= 8 1-time(s) 2.0sec

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

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
09/29 16:33:00 - 09/29 17:43:00	Track (77.4, -7.9) @ 09/29 16:30:00	# HOP 420 E-hemi. Quiet Sun
09/29 18:19:30 - 09/29 21:59:54	Track (93.7, -7.6) @ 09/29 18:16:30	# HOP420 cont.
09/29 22:03:00 - 09/30 01:59:54	Track (715.2, -541.7) @ 09/29 22:00:00	# AR12871 tracking
09/30 02:03:05 - 09/30 05:51:54	Fixed (0.0, 0.0)	HOP 349 (XRT Synoptic campaign)
09/30 06:05:00 - 09/30 11:01:00	Track (742.7, -535.2) @ 09/30 06:02:00	# AR12871 tracking

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

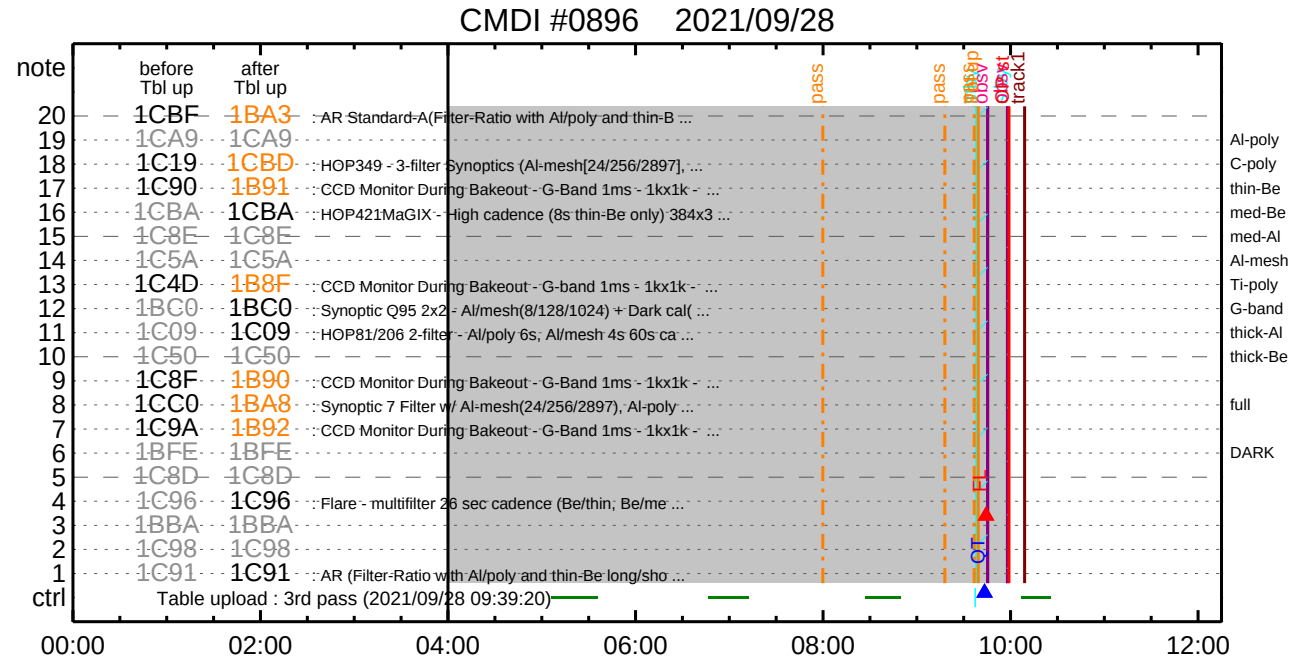
NOT USED

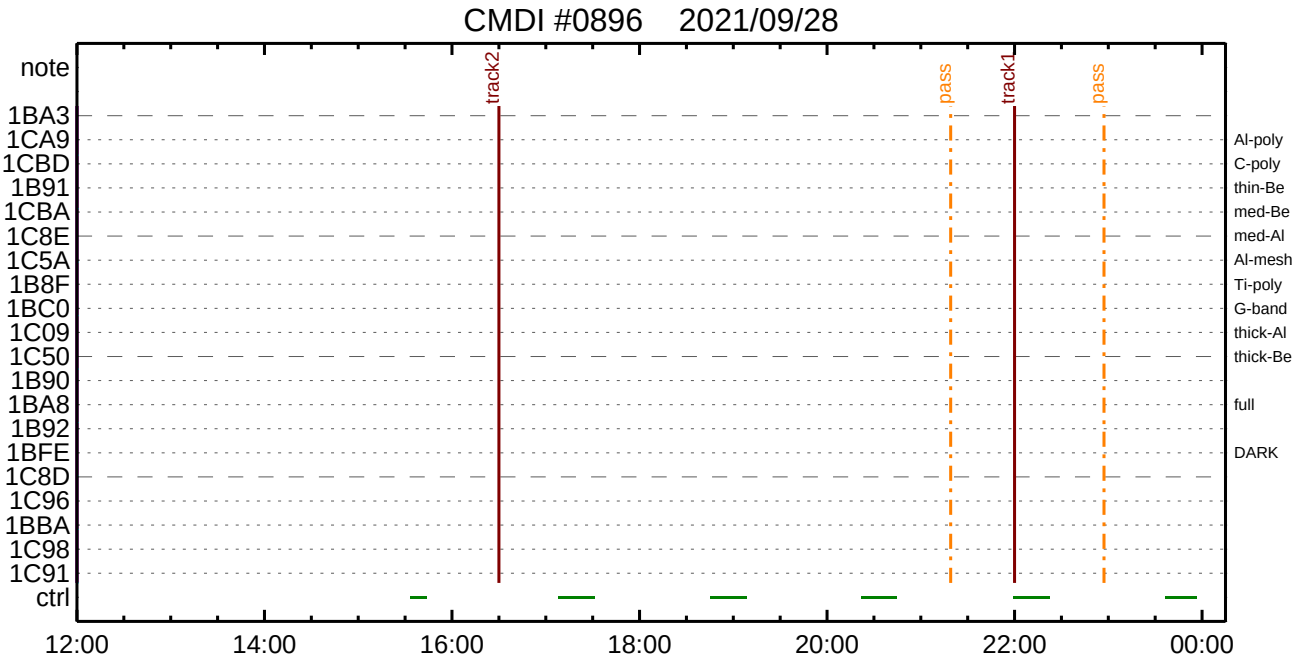
Flare Detection

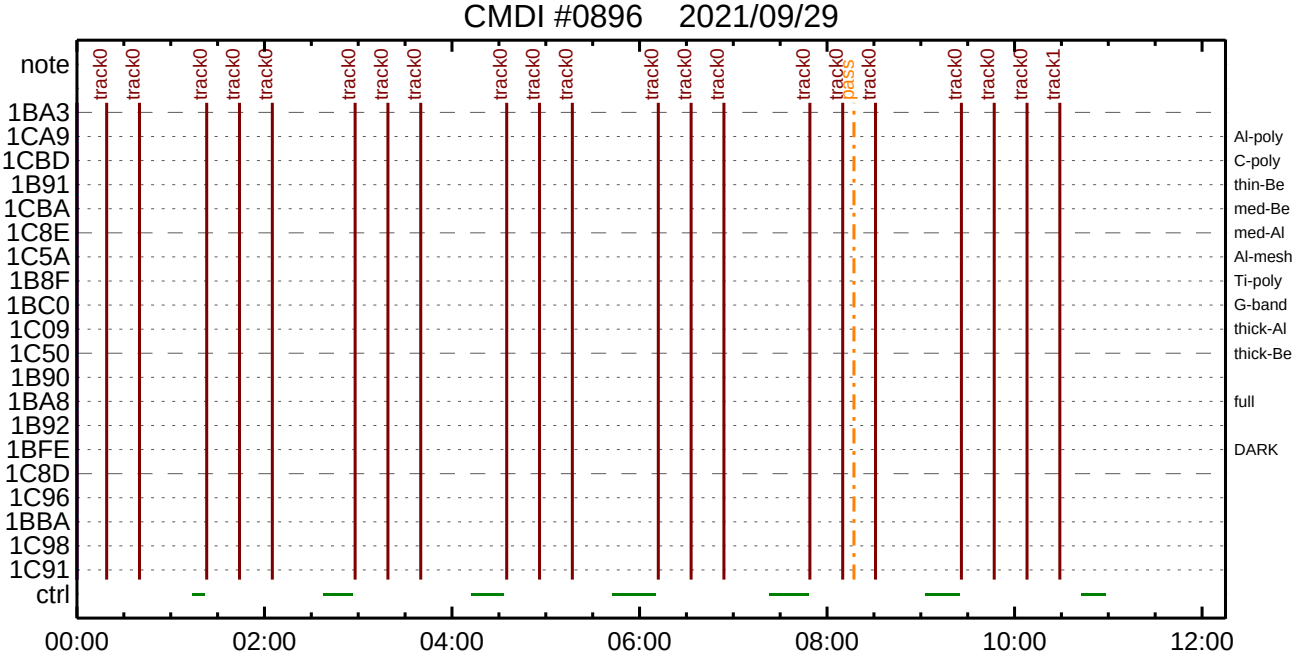
FLD Patrol

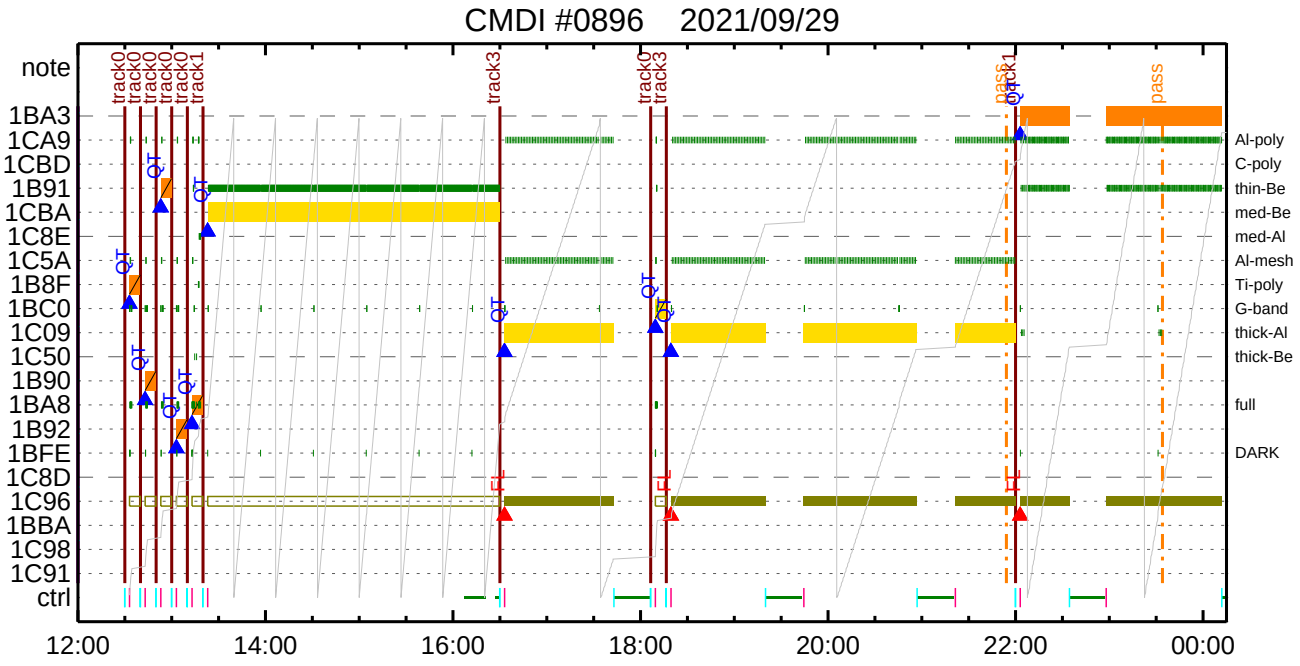
Term	Pointing (x, y)	Comment
09/29 16:30:18 - 09/29 18:06:48	Track (77.4, -7.9) @ 09/29 16:30:00	# HOP 420 E-hemi. Quiet Sun
09/29 18:16:48 - 09/30 05:52:18	Track (93.7, -7.6) @ 09/29 18:16:30	# HOP420 cont.
09/30 06:02:18 - 10/02 10:55:00	Track (742.7, -535.2) @ 09/30 06:02:00	# AR12871 tracking

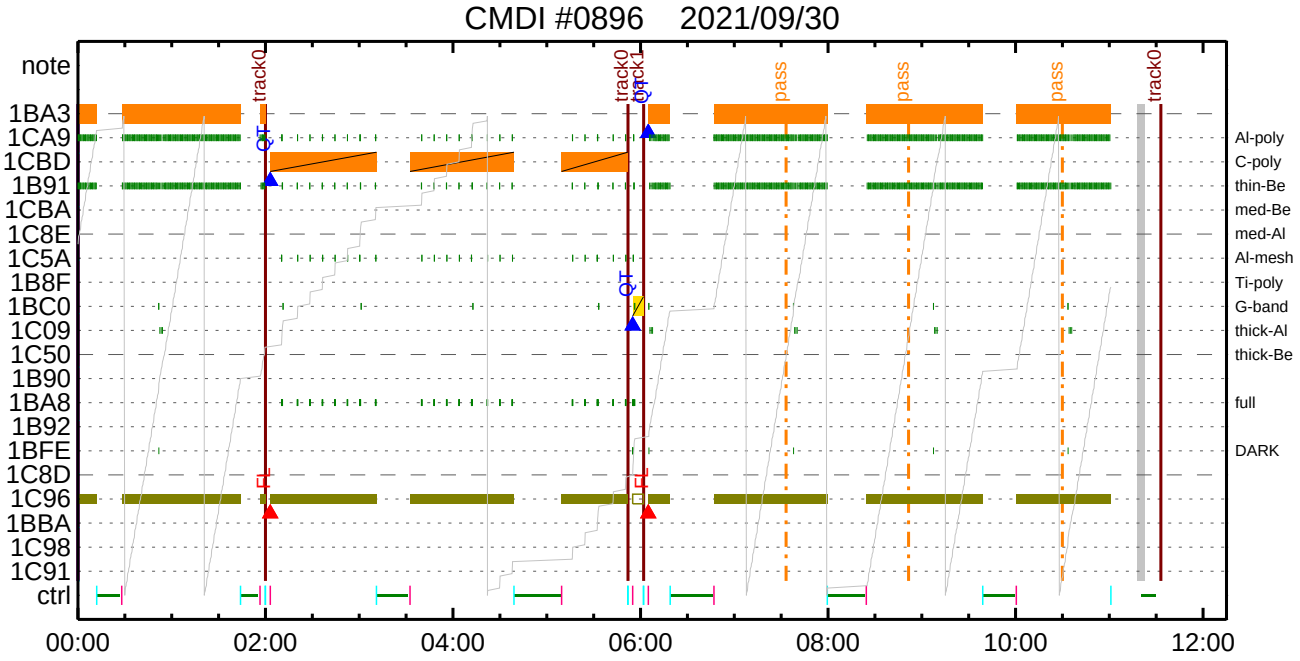
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8ms	Obs	8x8		Q=50			30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval


CMDI #0896 2021/09/28
note
before Tbl up
after Tbl up
20 1CBF 1BA3 : AR Standard-A(Filter-Ratio with Al/poly and thin-B ...
19 1CA9 1CA9
18 1C19 1CBD : HOP349 - 3-filter Synoptics (Al-mesh[24/256/2897], ...
17 1C90 1B91 : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
16 1CBA 1CBA : HOP421MaGIX - High cadence (8s thin-Be only) 384x3 ...
15 1C8E 1C8E
14 1C5A 1C5A
13 1C4D 1B8F : CCD Monitor During Bakeout - G-band 1ms - 1kx1k - ...
12 1BC0 1BC0 : Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(...
11 1C09 1C09 : HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 60s ca ...
10 1C50 1C50
9 1C8F 1B90 : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
8 1CC0 1BA8 : Synoptic 7 Filter w/ Al-mesh(24/256/2897), Al-poly ...
7 1C9A 1B92 : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
6 1BFE 1BFE
5 1C8D 1C8D
4 1C96 1C96 : Flare - multifilter 26 sec cadence (Be/thin; Be/me ...
3 1BBA 1BBA
2 1C98 1C98
1 1C91 1C91 : AR (Filter-Ratio with Al/poly and thin-Be long/sho ...
ctrl Table upload : 3rd pass (2021/09/28 09:39:20)
pass
pass
track1
FL
OT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0896 2021/09/28
note
track2
pass
track1
pass
1BA3
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
ctrl
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


CMDI #0896 2021/09/29
note
track0
track1
pass
1BA3
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0896 2021/09/29
note
1BA3
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
ctrl
track0
track3
pass
QT
FL
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


CMDI #0896 2021/09/30
note
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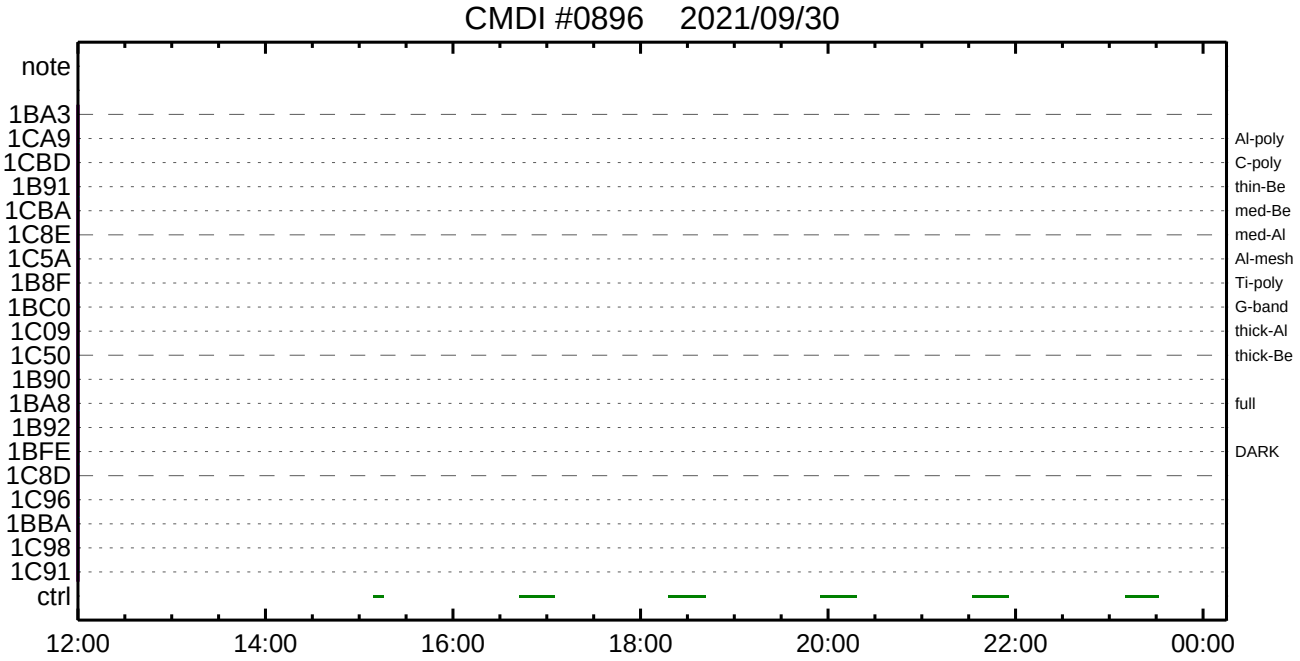
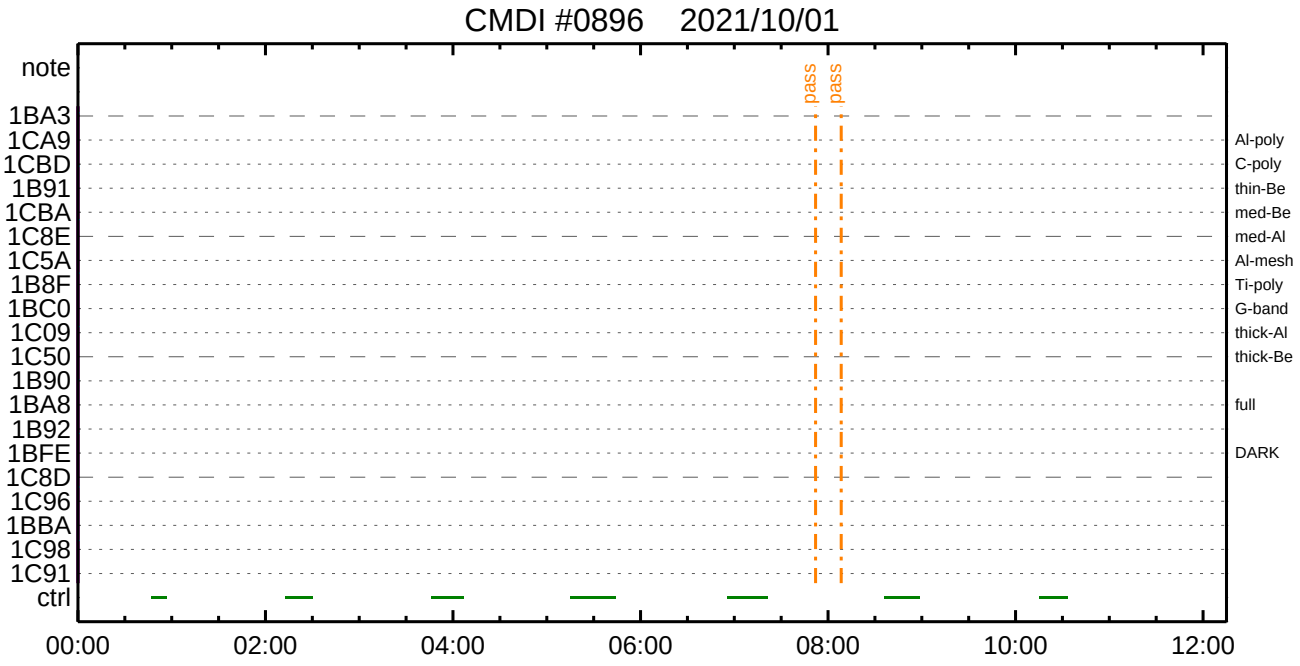
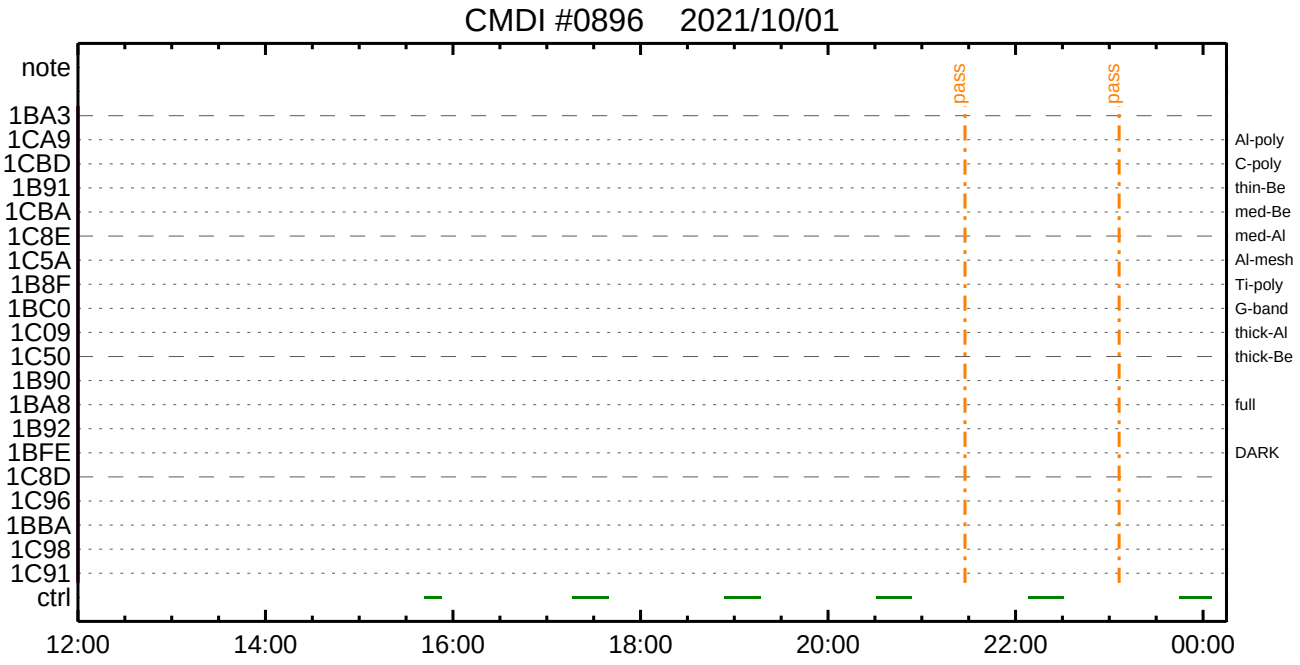
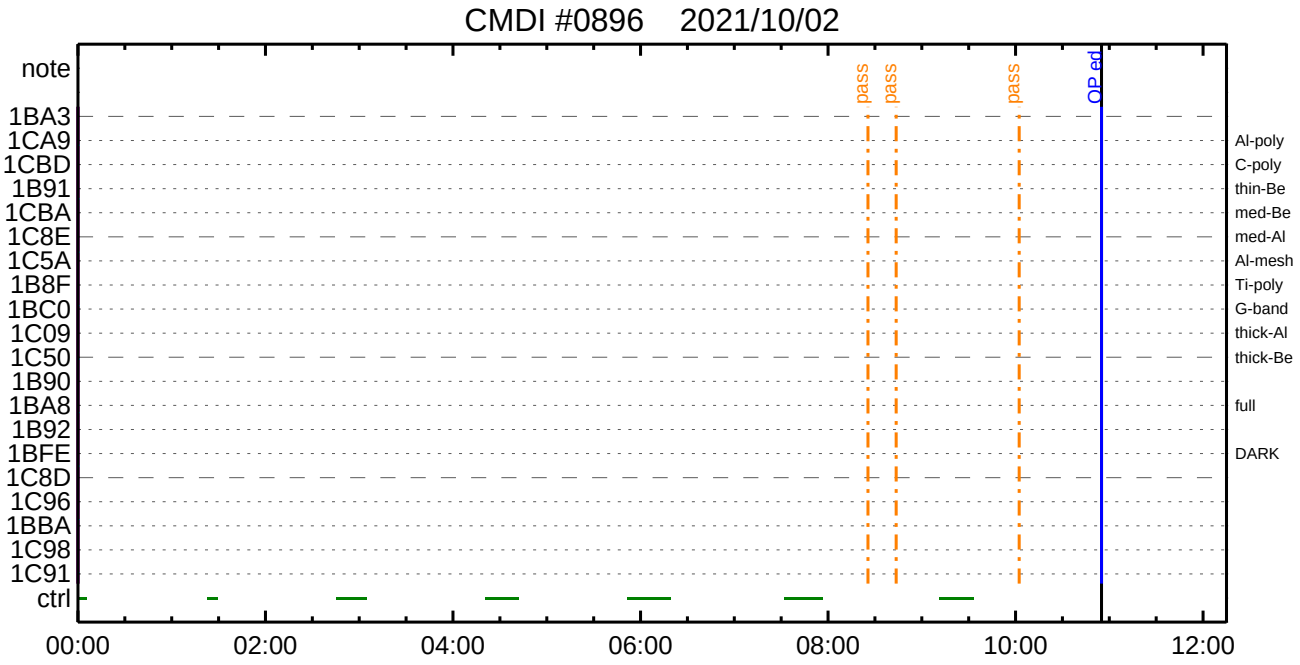
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
ctrl
track0
track1
pass
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0896 2021/09/30
note
1BA3
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
ctrl
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


CMDI #0896 2021/10/01
note
1BA3
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
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
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0896 2021/10/01
note
1BA3
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
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


CMDI #0896 2021/10/02
note
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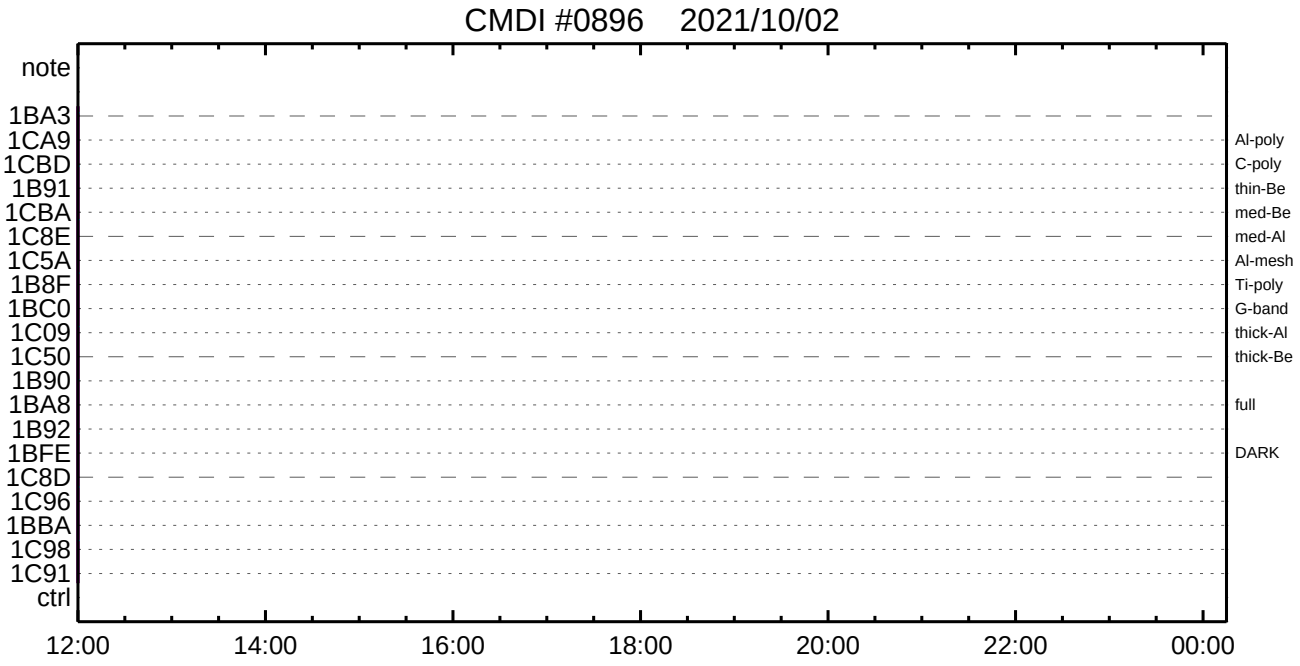
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
ctrl
pass
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0896 2021/10/02
note
1BA3
1CA9
1CBD
1B91
1CBA
1C8E
1C5A
1B8F
1BC0
1C09
1C50
1B90
1BA8
1B92
1BFE
1C8D
1C96
1BBA
1C98
1C91
ctrl
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-721 2021-09-28 12:25:58 205 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. ****************************
0015     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0016     C. ****************************
0017     C.
0018   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0019   . S. OP    op-721:OP
0020     ()
0021   . S. OG    og-721:OG
0022     ()
0023     C.
0024   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0025     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0026   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027     BC       (20 00 7f 01 02)
0028     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0029     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0030     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0031     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0032     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0033   +. DC 01-22 DHU_MODE_CHNG
0034     BC       (07 0b f8)
0035     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0036     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0037     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0038     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0039     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0040   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0041     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0042   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0043     C.
0044     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0045   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046     BC       (20 80 7f 01 02)
0047     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0048     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0049     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0050     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0051     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0052   +. DC 01-22 DHU_MODE_CHNG
0053     BC       (07 0b f8)
0054     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0055     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0056     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0057     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0058     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0059   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0060     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0061   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0062     C.
0063     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065     BC       (21 00 41 01 02)
0066     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0067     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0068     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0069     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0070     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0071   +. DC 01-22 DHU_MODE_CHNG
0072     BC       (07 0b f8)
0073     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0074     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0075     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0076     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0077     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0078   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0079     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0080   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0081     C.
0082   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0083     C. DHU¥â¡¼¥É¡Ê¼ý¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0084   +. DC 01-22 DHU_MODE_CHNG
0085     BC       (02 0a f8)
0086     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     2
0087     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0088     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0089     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0090     C.
0091   . C. ********************************
0092     C. TI-CMD SET (OPOG STOP/COPY/START)
0093     C. ********************************
0094     C.
0095   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
```

```
0096     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
0097     C.
0098   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0099   +. TI 2021-09-28 09:54:00.0
0100     DC 01-B3 DHU_OP_STOP
0101     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0102     C.
0103   +. TI 2021-09-28 09:54:01.0
0104     DC 01-B4 DHU_OP_COPY
0105     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0106     C.
0107   +. TI 2021-09-28 09:54:01.0
0108     DC 01-B5 DHU_OPOG_COPY
0109     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0110     C.
0111   +. TI 2021-09-28 09:58:59.5
0112     DC 01-B2 DHU_OP_START
0113     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0114     C.
0115     C. °Ê²¼¤ÏÄê¼ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0116     C.                      ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0117     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     4
0118     C.                      ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0119     C.                      ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0120     C.
0121   . C. ***************************
0122     C. TIÎÎ°è¥À¥ó¥×
0123     C. ***************************
0124     C.
0125     C. TI_TBL(0x03AB00-0x03AEFF¡§ 1024byte)
0126   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127     BC       (03 ab 03 01 02)
0128     C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0129     C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0130     C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0131     C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0132     C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0133   +. DC 01-22 DHU_MODE_CHNG
0134     BC       (07 0b f8)
0135     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
0136     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0137     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0138     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0139     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0140     C.
0141   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0142     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0143     C.
0144   . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0145     C.
0146   . C. DHU¥â¡¼¥É¡Ê¼ý¸¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0147   +. DC 01-22 DHU_MODE_CHNG
0148     BC       (02 0a f8)
0149     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
0150     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0151     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0152     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0153     C.
0154     C. ********************************
0155     C.  SOT TI command set
0156     C. ********************************
0157     C. Execute, after the success of OP upload.
0158   +. TI 2021-09-28 09:58:16.0
0159     DC 07-F0 MDP_SOT_MODE_STBY
0160     BC       (41)
0161   . C. ------------------------------------
0162     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0163     C. ------------------------------------
0164     C. ************ SOT END ************
0165   . C. Stop EIS observation and temporarily disable EIS mode changes
0166     C.
0167     C.
0168     C. ********** Start EIS operation (TI set) **********
0169     C. Execute, after the success of OP upload.
0170     C. Set EIS TI-commands
0171   +. TI 2021-09-28 09:58:30.0
0172     DC 07-FC EIS_MODE_MANU
0173     BC       (21 02)
0174   +. TI 2021-09-28 09:58:40.0
0175     DC 07-FC EIS_MODE_CHG_DIS
0176     BC       (22)
0177   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0178     C. ************ End EIS operation (TI set) ************
0179     C.
0180     C.
0181     C.
0182     C. ************ XRT START ************
0183     C. Execute, after the success of OP upload.
0184   +. TI 2021-09-28 09:58:00.0
0185     DC 07-F0 MDP_XRT_MODE_STBY
0186     BC       (c3)
0187   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0188     C.
0189     C. ************ XRT END ************
0190     C.
0191   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0192     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0193   . S. DC-BC dcbc-402:DCBC
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0194     (MDP_known_event)
0195     C.
0196     C.
0197   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0198   . S. DC-BC dcbc-153:DCBC
0199     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200     C.
0201     C.
0202   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0203     C.
0204   . C. ********** LOS **********
0205     C.
```

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(a) Spacecraft Operation Procedure (real-commands)

main-722 2021-09-28 12:25:58 178 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¤ÇÇ¤Î»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¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡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¥ÊÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶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¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡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
```

```
0096     C.
0097     C.
0098   . C. ***** AOCS Commands (Tracking Curve Upload) ******
0099     C. Upload the Orbit Element and the Target Attitude
0100     C. RAM-ID:TARGET_ATT
0101   . S. RAM   ram-150:TARGET_ATT
0102     ()
0103     C.
0104     C.
0105     C. Set the dump memory area of TARGET_ATT
0106   +. DC 02-48 AOCU_DUMP_SET
0107     BC       (07 00 00 00 18 00)
0108     C.
0109     C.    <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110     C.
0111     C.
0112     C. Change the TLMFormatNo for the AOCS Dump Format
0113   +. DC 01-22 DHU_MODE_CHNG
0114     BC       (04 0b f8)
0115     C.
0116     C. Wait for AOCSDUMP to end
0117     C.
0118   . C. Check the dump memory
0119     C.
0120     C.                                      Result = OK [ ]
0121     C.
0122   +. DC 01-22 DHU_MODE_CHNG
0123     BC       (02 0a f8)
0124     C.
0125     C.                         <A_***>[TLM STS] FMT = 2 [ ]
0126     C.
0127   +. DC 02-8E AOCU_ORB_UPD
0128    . C.
0129    . C. ***** AOCS Commands (Orbital Element Update) *****
0130     C. Update the orbital element
0131   +. DC 02-50 AOCU_ORB_PRPGT_START
0132     BC       (16)
0133   +  DC 02-8E AOCU_ORB_UPD
0134     C.
0135     C.       <A_ORB>[ORBIT] EPC = 3732045.3 +- 1.0 (s) [ ]
0136     C.
0137    . C.
0138    . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139   +. DC 07-FC EIS_MODE_CHG_ENA
0140     BC       (20)
0141    . C. Verify EIS_MODE_CHG_FLG is ENA
0142   +. DC 07-FC EIS_MODE_MANU
0143     BC       (21 02)
0144    . C. Verify EIS in MANUAL mode
0145    . C. Estimated OBSTBL upload time is 1m10s
0146     C. ********************************
0147     C. EIS START OBSTBL LOAD
0148     C. ********************************
0149    . S. RAM   ram-820:EIS_OBSTBL
0150     ()
0151   +. DC 07-FC EIS_DUMP_OBSTBL
0152     BC       (07 07 07 00 00 70 00)
0153     C.
0154     C. Execute, after the success of OBSTBL upload.
0155     C. Set EIS TI-commands
0156   +. TI 2021-09-28 09:58:50.0
0157     DC 07-FC EIS_MODE_CHG_ENA
0158     BC       (20)
0159    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0160     C. ********************************
0161     C. EIS END OBSTBL LOAD
0162     C. ********************************
0163     C.
0164    . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0165     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0166    . S. DC-BC dcbc-402:DCBC
0167     (MDP_known_event)
0168     C.
0169     C.
0170    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0171    . S. DC-BC dcbc-153:DCBC
0172     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0173     C.
0174     C.
0175    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0176     C.
0177    . C. ********** LOS **********
0178     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-723 2021-09-28 12:25:58 138 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¡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. ********************************
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-286: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 2021-09-28 09:58:18.0
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 85 83 06 06)
0076   +  DC 07-F0 MDP_XRT_ROI_SET
0077     BC       (cd 07 85 83 08 08)
0078   +  DC 07-F0 MDP_XRT_ROI_SET
0079     BC       (cd 08 c0 c0 10 10)
0080   +  DC 07-F0 MDP_XRT_ROI_SET
0081     BC       (cd 09 80 80 20 20)
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 80 80 20 08)
0090   +  DC 07-F0 MDP_XRT_ROI_SET
0091     BC       (cd 0e 80 80 08 20)
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)
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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 01)
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 2021-09-28 09:58:02.0
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.
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*** OP Sequence for XRT ***

2021/09/28  10:09:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 01 00 00 00 00
2021/09/28  16:30:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 02 00 00 00 00
2021/09/28  22:00:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 01 00 00 00 00
2021/09/29  00:19:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 57 a5 01 f3
2021/09/29  00:40:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM              5 02-76 00 4e c0 01 f3
2021/09/29  01:23:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 00 45 db 01 f3
2021/09/29  01:44:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 3c fd 01 f3
2021/09/29  02:05:00.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                AOCU_NM              5 02-76 00 34 18 01 f3
2021/09/29  02:58:00.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                AOCU_NM              5 02-76 00 2b 33 01 f3
2021/09/29  03:19:00.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                AOCU_NM              5 02-76 00 22 4d 01 f3
2021/09/29  03:40:00.0  AOCS_ORe-point_Start_10_OG [0x0a0]
                                AOCU_NM              5 02-76 00 19 68 01 f3
2021/09/29  04:35:00.0  AOCS_ORe-point_Start_11_OG [0x0a1]
                                AOCU_NM              5 02-76 00 10 8b 01 f3
2021/09/29  04:56:00.0  AOCS_ORe-point_Start_12_OG [0x0a2]
                                AOCU_NM              5 02-76 00 07 a5 01 f3
2021/09/29  05:17:00.5  AOCS_ORe-point_Start_13_OG [0x0a3]
                                AOCU_NM              5 02-76 00 ff a6 01 f3
2021/09/29  06:12:00.0  AOCS_ORe-point_Start_14_OG [0x0a4]
                                AOCU_NM              5 02-76 00 f6 c1 01 f3
2021/09/29  06:22:00.0  XRT_TCIB_XRT_S_HTR_A_DIS_426_OG [0x1aa]
                                TCIB_XRT_S_HTR_A_DIS 0 04-C0
2021/09/29  06:33:00.0  AOCS_ORe-point_Start_15_OG [0x0a5]
                                AOCU_NM              5 02-76 00 ed dc 01 f3
2021/09/29  06:54:00.0  AOCS_ORe-point_Start_16_OG [0x0a6]
                                AOCU_NM              5 02-76 00 e4 fe 01 f3
2021/09/29  07:49:00.0  AOCS_ORe-point_Start_17_OG [0x0a7]
                                AOCU_NM              5 02-76 00 dc 19 01 f3
2021/09/29  08:10:00.0  AOCS_ORe-point_Start_18_OG [0x0a8]
                                AOCU_NM              5 02-76 00 d3 34 01 f3
2021/09/29  08:31:00.0  AOCS_ORe-point_Start_19_OG [0x0a9]
                                AOCU_NM              5 02-76 00 ca 4e 01 f3
2021/09/29  09:26:00.0  AOCS_ORe-point_Start_20_OG [0x0aa]
                                AOCU_NM              5 02-76 00 c1 69 01 f3
2021/09/29  09:47:00.0  AOCS_ORe-point_Start_21_OG [0x0ab]
                                AOCU_NM              5 02-76 00 b8 8c 01 f3
2021/09/29  10:08:00.0  AOCS_ORe-point_Start_22_OG [0x0ac]
                                AOCU_NM              5 02-76 00 af a6 01 f3
2021/09/29  10:29:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 01 00 00 00 00
2021/09/29  12:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:29:58.0  XRT_FOCUS_POSITION_437_OG [0x1b5]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/29  12:30:00.0  AOCS_ORe-point_Start_23_OG [0x0ad]
                                AOCU_NM              5 02-76 00 2e f9 2e f9
2021/09/29  12:32:52.0  XRT_ARS_DIS_444_OG [0x1bc]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  12:32:54.0  XRT_FLRCTRL_DIS_436_OG [0x1b4]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/29  12:32:56.0  XRT_FLD_DIS_440_OG [0x1b8]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/29  12:32:58.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0d
2021/09/29  12:33:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  12:39:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:39:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:39:58.0  XRT_FOCUS_POSITION_437_OG [0x1b5]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/29  12:40:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                AOCU_NM              5 02-76 00 2e f9 d1 07
2021/09/29  12:42:52.0  XRT_ARS_DIS_444_OG [0x1bc]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  12:42:54.0  XRT_FLRCTRL_DIS_436_OG [0x1b4]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/29  12:42:56.0  XRT_FLD_DIS_440_OG [0x1b8]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/29  12:42:58.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2021/09/29  12:43:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  12:49:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:49:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:49:58.0  XRT_FOCUS_POSITION_437_OG [0x1b5]
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                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/29  12:50:00.0  AOCS_ORe-point_Start_25_OG [0x0af]
                                        AOCU_NM              5 02-76 00 d1 07 d1 07
2021/09/29  12:52:52.0  XRT_ARS_DIS_444_OG [0x1bc]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  12:52:54.0  XRT_FLRCTRL_DIS_436_OG [0x1b4]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/29  12:52:56.0  XRT_FLD_DIS_440_OG [0x1b8]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/29  12:52:58.0  XRT_QT_PROG_SET_425_OG [0x1a9]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2021/09/29  12:53:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  12:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  12:59:58.0  XRT_FOCUS_POSITION_437_OG [0x1b5]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/29  13:00:00.0  AOCS_ORe-point_Start_26_OG [0x0b0]
                                        AOCU_NM              5 02-76 00 d1 07 2e f9
2021/09/29  13:02:52.0  XRT_ARS_DIS_444_OG [0x1bc]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  13:02:54.0  XRT_FLRCTRL_DIS_436_OG [0x1b4]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/29  13:02:56.0  XRT_FLD_DIS_440_OG [0x1b8]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/29  13:02:58.0  XRT_QT_PROG_SET_416_OG [0x1a0]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2021/09/29  13:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  13:09:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  13:09:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  13:09:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/29  13:10:00.0  AOCS_ORe-point_Start_27_OG [0x0b1]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2021/09/29  13:10:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/29  13:10:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/29  13:10:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  13:12:58.0  XRT_QT_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2021/09/29  13:13:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  13:19:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  13:19:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  13:19:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2021/09/29  13:20:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2021/09/29  13:20:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/29  13:20:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/29  13:20:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2021/09/29  13:20:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  13:20:26.0  XRT_FLD_RESET_421_OG [0x1a5]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  13:22:58.0  XRT_QT_PROG_SET_441_OG [0x1b9]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2021/09/29  13:23:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  16:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  16:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  16:29:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2021/09/29  16:30:00.0  AOCS_ORe-point_Start_28_OG [0x0b2]
                                        AOCU_NM              5 02-76 03 00 00 00 00
2021/09/29  16:30:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2021/09/29  16:30:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2021/09/29  16:30:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2021/09/29  16:30:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  16:30:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  16:32:56.0  XRT_QT_PROG_SET_447_OG [0x1bf]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0b
2021/09/29  16:32:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
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2021/09/29  16:33:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  17:43:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  17:43:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  17:43:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/29  17:46:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/29  18:06:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  18:06:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  18:06:28.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/29  18:06:30.0  AOCS_ORe-point_Start_27_OG [0x0b1]
                                AOCU_NM              5 02-76 00 00 00 00 00
2021/09/29  18:06:48.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/29  18:06:50.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/29  18:06:52.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  18:09:28.0  XRT_QT_PROG_SET_422_OG [0x1a6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2021/09/29  18:09:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  18:16:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  18:16:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  18:16:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2021/09/29  18:16:30.0  AOCS_ORe-point_Start_28_OG [0x0b2]
                                AOCU_NM              5 02-76 03 00 00 00 00
2021/09/29  18:16:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2021/09/29  18:16:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2021/09/29  18:16:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2021/09/29  18:16:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  18:16:56.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  18:19:26.0  XRT_QT_PROG_SET_447_OG [0x1bf]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0b
2021/09/29  18:19:28.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2021/09/29  18:19:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  19:20:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  19:20:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  19:20:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/29  19:23:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/29  19:43:30.0  XRT_Custom_430_OG [0x1ae]
2021/09/29  19:44:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  20:57:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  20:57:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  20:57:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/29  21:00:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/29  21:20:30.0  XRT_Custom_430_OG [0x1ae]
2021/09/29  21:21:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  21:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  21:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  21:59:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2021/09/29  22:00:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 01 00 00 00 00
2021/09/29  22:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2021/09/29  22:00:20.5  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2021/09/29  22:00:22.5  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2021/09/29  22:00:24.5  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/29  22:00:26.5  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  22:02:56.5  XRT_QT_PROG_SET_417_OG [0x1a1]
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                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2021/09/29  22:02:58.5  XRT_FL_PROG_SET_418_OG [0x1a2]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2021/09/29  22:03:00.5  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/29  22:34:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/29  22:34:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/29  22:34:34.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/29  22:37:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/29  22:57:00.0  XRT_Custom_430_OG [0x1ae]
2021/09/29  22:58:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  00:12:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  00:12:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  00:12:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/30  00:15:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/30  00:27:00.0  XRT_Custom_430_OG [0x1ae]
2021/09/30  00:28:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  01:44:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  01:44:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  01:44:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/30  01:47:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/30  01:55:30.0  XRT_Custom_430_OG [0x1ae]
2021/09/30  01:56:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  01:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  01:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  01:59:58.0  XRT_ROI_A_445_OG [0x1bd]
                                        MDP_XRT_ROI_SET      6 07-F0 cd 05 85 83 06 06
                                        MDP_XRT_ROI_SET      6 07-F0 cd 06 85 83 06 06
                                        MDP_XRT_ROI_SET      6 07-F0 cd 07 85 83 08 08
                                        MDP_XRT_ROI_SET      6 07-F0 cd 08 80 80 08 08
                                        MDP_XRT_ROI_SET      6 07-F0 cd 09 80 80 20 20
                                        MDP_XRT_ROI_SET      6 07-F0 cd 0d 80 80 20 08
                                        MDP_XRT_ROI_SET      6 07-F0 cd 0e 80 80 08 20
                                        MDP_XRT_ROI_SET      6 07-F0 cd 0f 80 80 06 06
2021/09/30  01:59:58.5  XRT_ROI_B_403_OG [0x193]
                                        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
2021/09/30  02:00:00.0  AOCS_ORe-point_Start_27_OG [0x0b1]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2021/09/30  02:00:03.5  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/30  02:00:23.5  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2021/09/30  02:00:25.5  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2021/09/30  02:00:27.5  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2021/09/30  02:00:29.5  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/30  02:00:31.5  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  02:03:01.5  XRT_QT_PROG_SET_435_OG [0x1b3]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 12
2021/09/30  02:03:03.5  XRT_FL_PROG_SET_418_OG [0x1a2]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2021/09/30  02:03:05.5  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  03:11:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  03:11:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  03:11:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/30  03:14:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/30  03:31:30.0  XRT_Custom_430_OG [0x1ae]
2021/09/30  03:32:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  04:39:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  04:39:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  04:39:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/30  04:42:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
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2021/09/30  05:08:30.0  XRT_Custom_430_OG [0x1ae]
2021/09/30  05:09:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  05:51:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  05:51:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  05:51:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2021/09/30  05:52:00.0  AOCS_ORe-point_Start_27_OG [0x0b1]
                                AOCU_NM              5 02-76 00 00 00 00 00
2021/09/30  05:52:18.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2021/09/30  05:52:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2021/09/30  05:52:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/30  05:54:58.0  XRT_QT_PROG_SET_422_OG [0x1a6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2021/09/30  05:55:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  06:01:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  06:01:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  06:01:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2021/09/30  06:02:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 01 00 00 00 00
2021/09/30  06:02:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2021/09/30  06:02:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2021/09/30  06:02:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2021/09/30  06:02:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2021/09/30  06:02:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  06:04:56.0  XRT_QT_PROG_SET_417_OG [0x1a1]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2021/09/30  06:04:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2021/09/30  06:05:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  06:19:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  06:19:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  06:19:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/30  06:22:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/30  06:46:00.0  XRT_Custom_430_OG [0x1ae]
2021/09/30  06:47:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  07:59:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  07:59:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  07:59:34.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/30  08:02:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/30  08:23:30.0  XRT_Custom_430_OG [0x1ae]
2021/09/30  08:24:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  09:39:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  09:39:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2021/09/30  09:39:04.0  XRT_PREFLR_STRT_431_OG [0x1af]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2021/09/30  09:42:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2021/09/30  09:59:30.0  XRT_Custom_430_OG [0x1ae]
2021/09/30  10:00:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2021/09/30  11:01:00.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2021/09/30  11:33:00.0  AOCS_ORe-point_Start_27_OG [0x0b1]
                                AOCU_NM              5 02-76 00 00 00 00 00
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