XRT Timeline to be uploaded on 2022/07/12

Period: 2022/07/12 12:22:00 - 2022/07/16 10:58:00

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

XOB #1CD0: HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], Al-poly[12/181/1443], thin-Be[24/512/3897] with 512x512 G-band+Leak - 300min cad) + CME w

Term	Pointing (x, y)	Comment
07/12 12:35:00 - 07/12 16:19:54	Fixed (-16.0, -71.0)	# OP start + 10min. SOT calibration.

PROG= 18 Inf.-time(s)

Subr= 1 1-time(s) 300.0sec

Seqn= 55 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	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

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= 79 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	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

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	512x512 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 2 20-time(s) 900.0sec

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= 74 1-time(s) 2.0sec

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

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	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

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	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

XOB #1CC7: Synoptic Q95 2x2 - Al/mesh(2/128/723) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(12/181/1443) + Thi

Term	Pointing (x, y)	Comment
07/12 16:23:00 - 07/12 16:31:30	Fixed (0.0, 0.0)	synoptic, shifted + stray light measurements.
07/13 18:33:00 - 07/13 18:45:30	Fixed (0.0, 0.0)	synoptic, shifted 4.0 min
07/14 05:37:32 - 07/14 05:43:54	Fixed (0.0, 0.0)	synoptic, shifted -26.0 min + HOP 349

PROG= 17 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= 55 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	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

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= 79 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	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= 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 #1CE3: Stray light study 2022-3 ; Al_poly/Ti_poly and Al_poly/Open, 2x2 full FOV(1min-cad) and 1x1 384 at Center (10sec-cad)

Term	Pointing (x, y)	Comment
07/12 16:34:00 - 07/12 16:49:54	Fixed (0.0, 0.0)	synoptic, shifted + stray light measurements.

PROG= 10 1-time(s)

Subr= 2 15-time(s) 2.0sec

Seqn= 95 1-time(s) 10.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 86 1-time(s) 2.0sec												
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	4.00s	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= 95 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 #1C94: AR (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 512x512 at 1064 1048, thick-Al context, with G-band (1ms/1ms leak), 300s

Term	Pointing (x, y)	Comment
07/12 17:15:30 - 07/13 03:54:30	Track (301.9, 101.9) @ 07/12 16:50:00	# AR 13053 obs + HOP 420 (17-21UT).
07/13 06:29:00 - 07/13 18:29:54	Track (338.2, 126.1) @ 07/13 06:26:00	# AR cont.

PROG= 07 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 81 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	Q=95	0	0	2.0sec
Seqn= 82 1-time(s) 2.0sec													
Al-poly/Open	Al-poly/Open	close	Safe	Dark	1.00s	Obs	1x1	512x512 (1064, 1048)	DPCM	0	0	2.0sec
Seqn= 71 3-time(s) 2.0sec													
Open/thick-Al	Open/thick-Be	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1064, 1048)	Q=98	3	0	2.0sec
Subr= 2 20-time(s) 300.0sec													
Seqn= 94 1-time(s) 100.0sec													
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	512x512 (1064, 1048)	Q=95	2	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	512x512 (1064, 1048)	Q=95	2	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec
Seqn= 58 1-time(s) 100.0sec													
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
Seqn= 48 1-time(s) 2.0sec													
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	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
07/13 04:33:30 - 07/13 06:17:00	Fixed (0.0, 0.0)	synoptic, shifted 16.0 min + HOP 349
07/14 04:03:00 - 07/14 05:37:00	Fixed (0.0, 0.0)	synoptic, shifted -26.0 min + HOP 349

PROG= 12 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	512x512 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	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 #1CCB: Synoptic 7 Filter w/ Al-mesh(8/128/1024), Al-poly(12/181/1443), Thin-Be(64/1024/5795) - Thick-Be(65536), Al-poly+Ti-poly(64/2048), Med-Al(204

Term	Pointing (x, y)	Comment
07/13 06:17:32 - 07/13 06:25:54	Fixed (0.0, 0.0)	synoptic, shifted 16.0 min + HOP 349

PROG= 05 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= 63 1-time(s) 2.0sec													
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													
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													
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) 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= 93 1-time(s) 2.0sec													
med-Al/Open	med-Al/thick-Al	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
med-Al/Open	med-Al/Open	close	Safe	Norm	22.6s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	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 #1CDC: Stray light study 2022-01; Al-mesh and Al-poly, 2x2 full FOV(1min-cad) and 1x1 384 on AR(10sec-cad)

Term	Pointing (x, y)	Comment
07/13 18:48:00 - 07/13 18:59:54	Fixed (0.0, -950.0)	# XRT stray light measurement at south pole.

PROG= 08 1-time(s)													
Subr= 2 16-time(s) 2.0sec													
Seqn= 95 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= 20 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= 95 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
07/13 19:18:00 - 07/13 21:44:54	Fixed (0.0, 930.0)	# Coalignment at north pole.

PROG= 03 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	2048x1536 (1024, 768)	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
07/13 22:00:00 - 07/14 00:44:54	Fixed (-970.0, 0.0)	# Coalignment at east limb.

PROG= 19 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	1536x2048 (1280, 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 #1CD7: 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
07/14 00:48:00 - 07/14 03:59:54	Track (479.2, 130.4) @ 07/14 00:45:00	# AR cont.
07/14 05:47:00 - 07/14 09:20:30	Track (515.1, 131.9) @ 07/14 05:44:00	# AR cont.

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
PROG= 15 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) 180.0sec												
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

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
07/12 12:35:00 - 07/12 16:19:54	Fixed (-16.0, -71.0)	# OP start + 10min. SOT calibration.
07/12 17:15:30 - 07/13 03:54:30	Track (301.9, 101.9) @ 07/12 16:50:00	# AR 13053 obs + HOP 420 (17-21UT).
07/13 04:33:30 - 07/13 06:17:00	Fixed (0.0, 0.0)	synoptic, shifted 16.0 min + HOP 349
07/13 06:29:00 - 07/13 18:29:54	Track (338.2, 126.1) @ 07/13 06:26:00	# AR cont.
07/14 00:48:00 - 07/14 03:59:54	Track (479.2, 130.4) @ 07/14 00:45:00	# AR cont.
07/14 04:03:00 - 07/14 05:37:00	Fixed (0.0, 0.0)	synoptic, shifted -26.0 min + HOP 349
07/14 05:47:00 - 07/14 09:20:30	Track (515.1, 131.9) @ 07/14 05:44:00	# AR cont.

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

Active Region Search

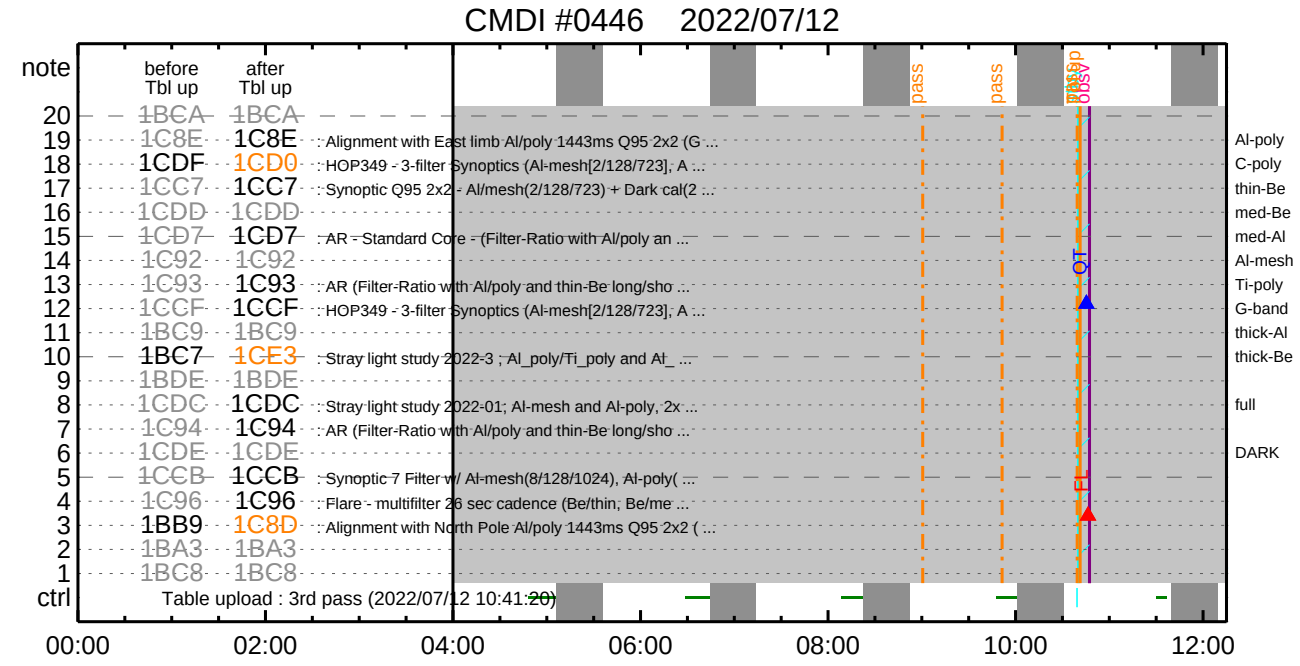
NOT USED

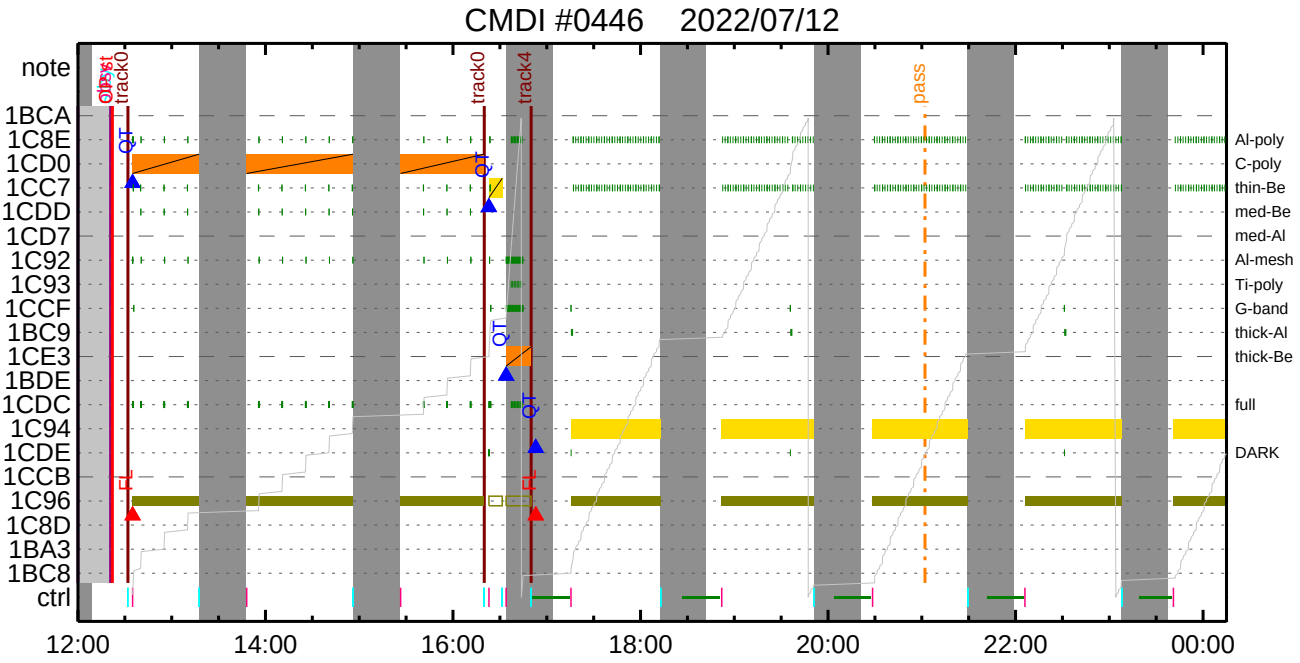
Flare Detection

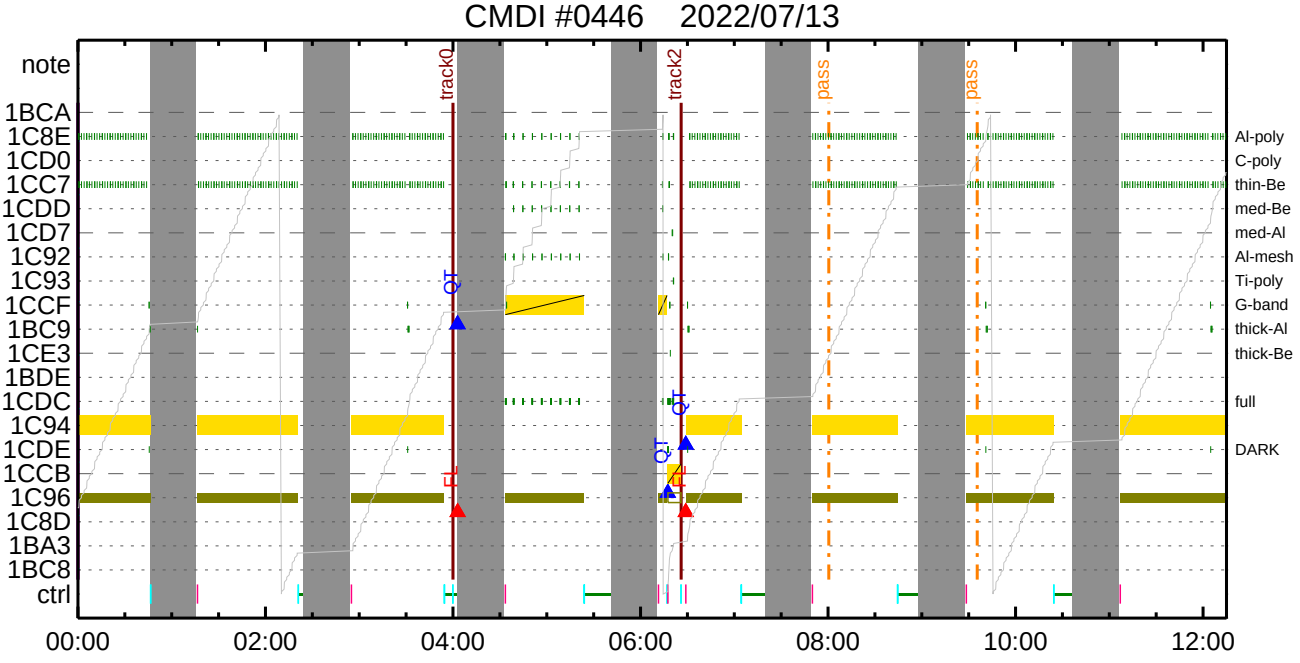
FLD Patrol

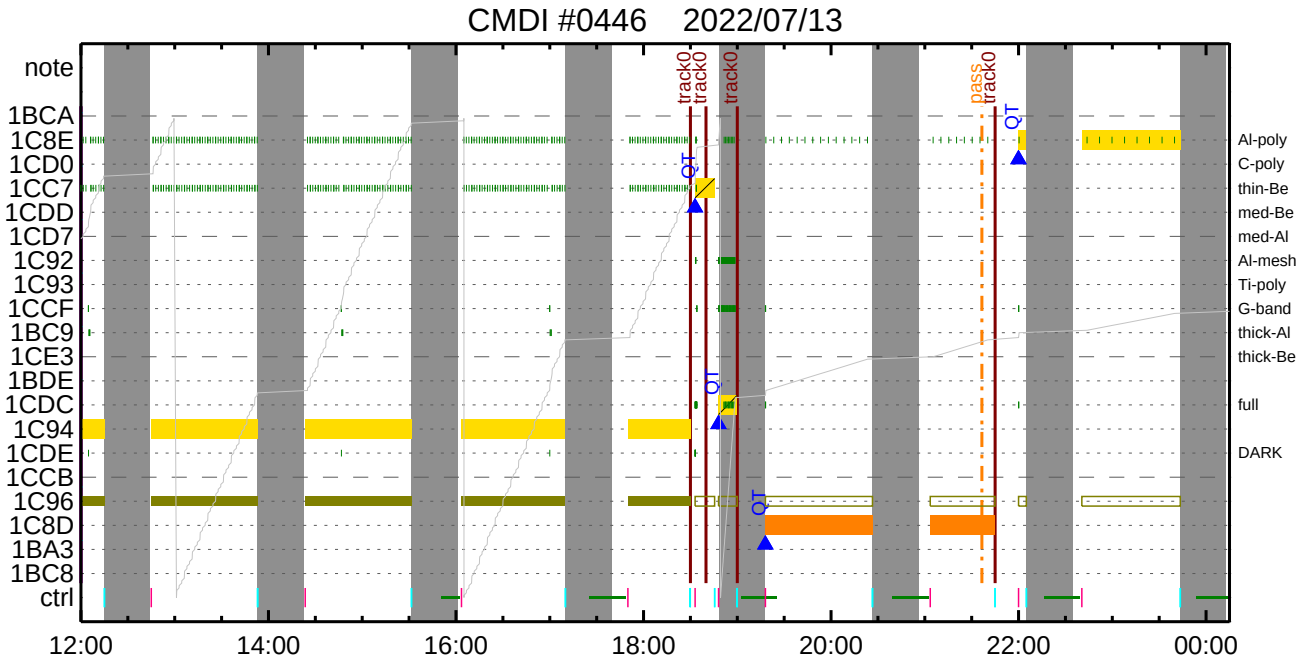
Term	Pointing (x, y)	Comment
07/12 10:42:20 - 07/12 16:20:18	cannot be identified	
07/12 16:50:18 - 07/13 06:17:24	Track (301.9, 101.9) @ 07/12 16:50:00	# AR 13053 obs + HOP 420 (17-21UT).
07/13 06:26:18 - 07/13 18:30:18	Track (338.2, 126.1) @ 07/13 06:26:00	# AR cont.
07/14 00:45:18 - 07/14 05:37:24	Track (479.2, 130.4) @ 07/14 00:45:00	# AR cont.
07/14 05:44:18 - 07/16 10:58:00	Track (515.1, 131.9) @ 07/14 05:44:00	# AR cont.

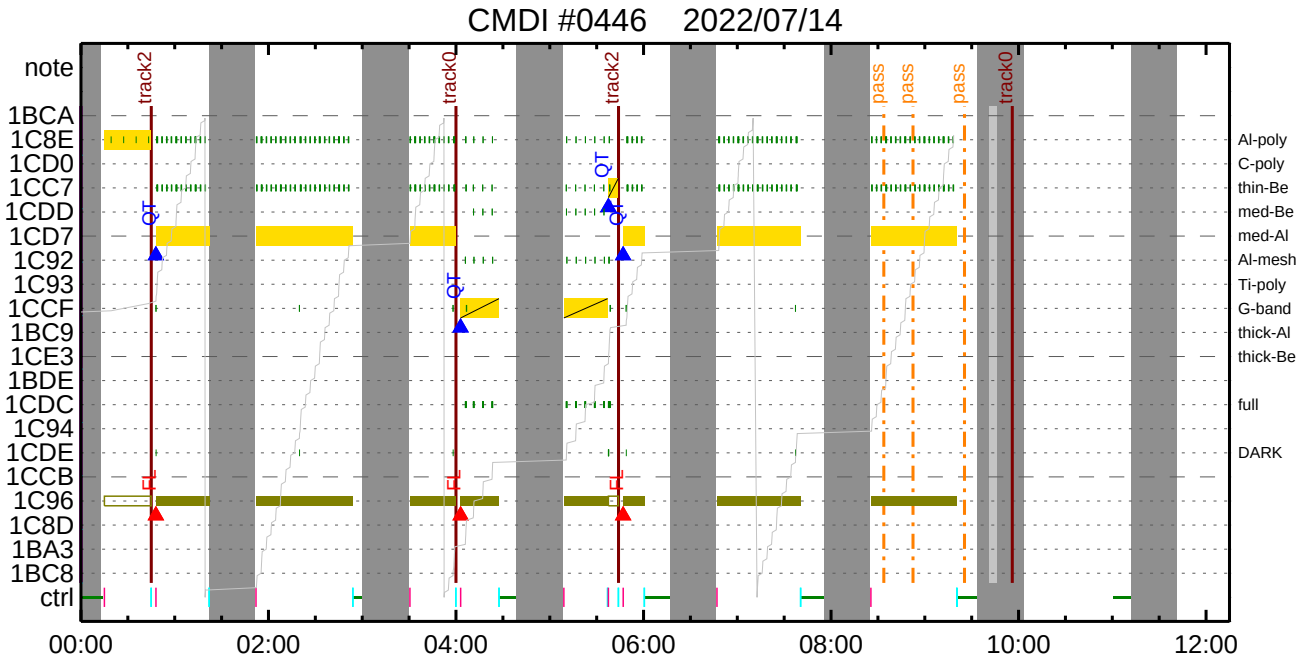
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4ms	Obs	8x8		Q=50			30sec

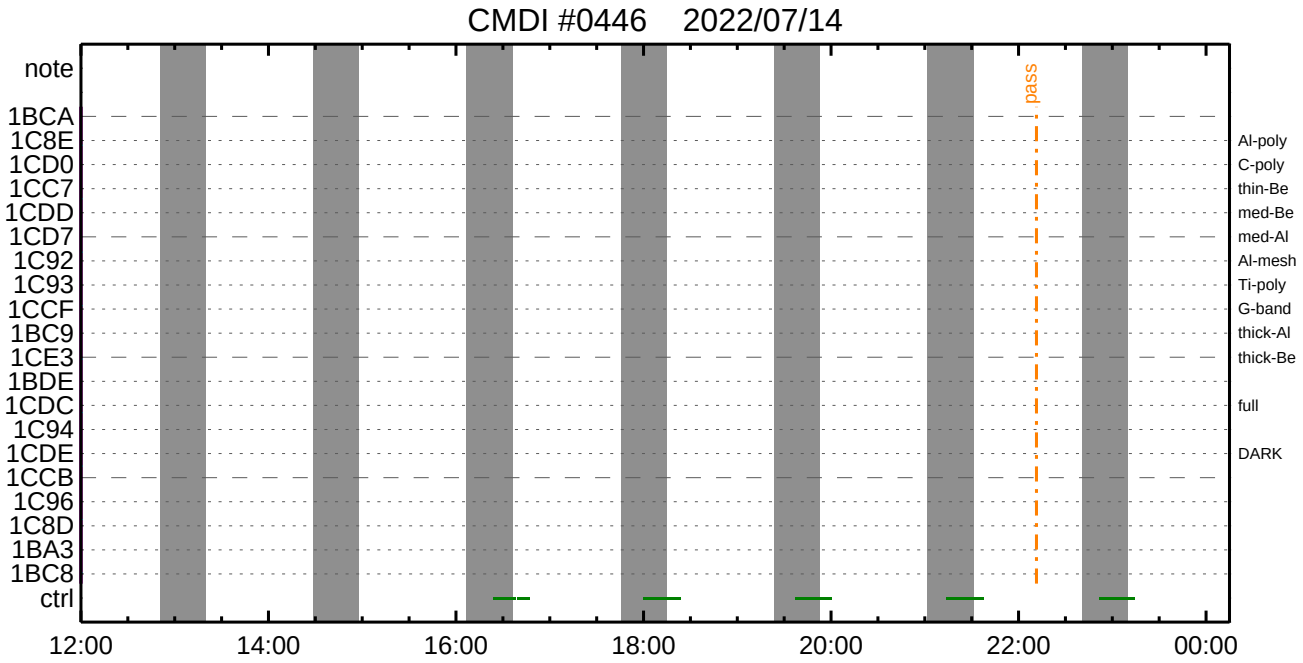

CMDI #0446 2022/07/12
note
before Tbl up
after Tbl up
20 1BCA 1BCA
19 1C8E 1C8E : Alignment with East limb Al/poly 1443ms Q95 2x2 (G ...
18 1CDF 1CD0 : HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], A ...
17 1CC7 1CC7 : Synoptic Q95 2x2 - Al/mesh(2/128/723) + Dark cal(2 ...
16 1CDD 1CDD
15 1CD7 1CD7 : AR - Standard Core - (Filter-Ratio with Al/poly an ...
14 1C92 1C92
13 1C93 1C93 : AR (Filter-Ratio with Al/poly and thin-Be long/sho ...
12 1CCF 1CCF : HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], A ...
11 1BC9 1BC9
10 1BC7 1CE3 : Stray light study 2022-3 ; Al_poly/Ti_poly and Al_ ...
9 1BDE 1BDE
8 1CDC 1CDC : Stray light study 2022-01; Al-mesh and Al-poly, 2x ...
7 1C94 1C94 : AR (Filter-Ratio with Al/poly and thin-Be long/sho ...
6 1CDE 1CDE
5 1CCB 1CCB : Synoptic 7 Filter w/ Al-mesh(8/128/1024), Al-poly(...
4 1C96 1C96 : Flare - multifilter 26 sec cadence (Be/thin; Be/me ...
3 1BB9 1C8D : Alignment with North Pole Al/poly 1443ms Q95 2x2 (...
2 1BA3 1BA3
1 1BC8 1BC8
ctrl Table upload : 3rd pass (2022/07/12 10:41:20)
pass
pass
pass
obsv
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

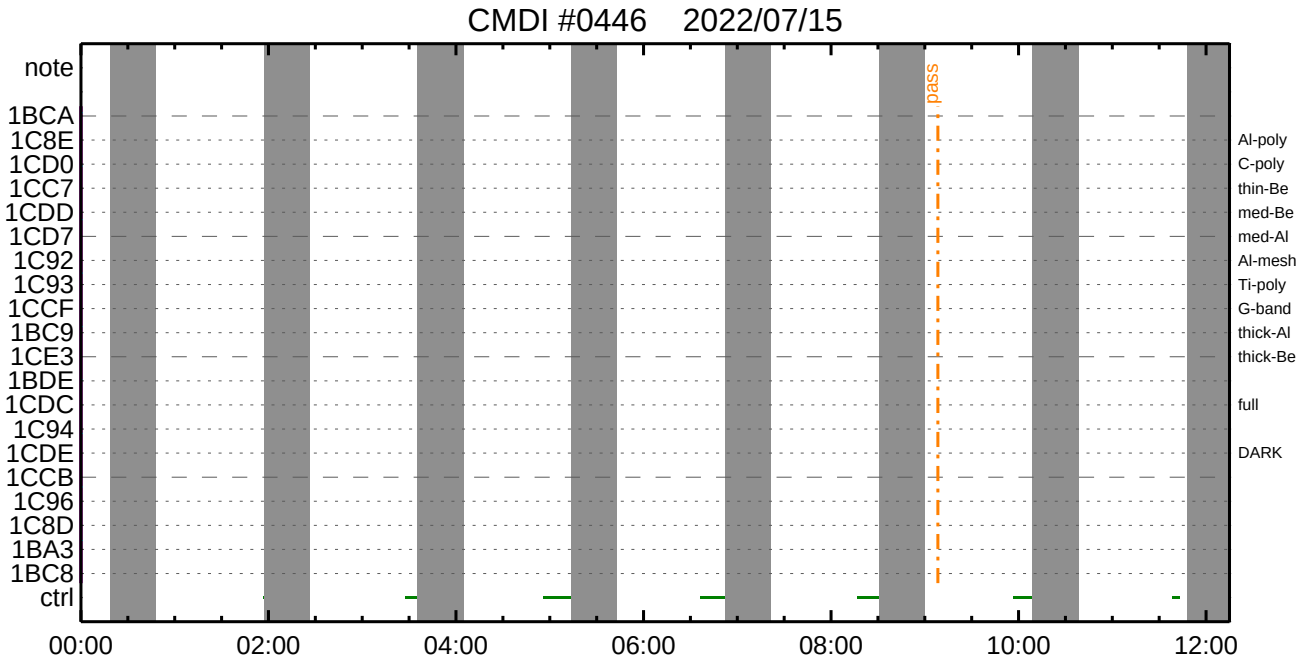

CMDI #0446 2022/07/12
note
obsv
track0
QT
FL
track0
track4
pass
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

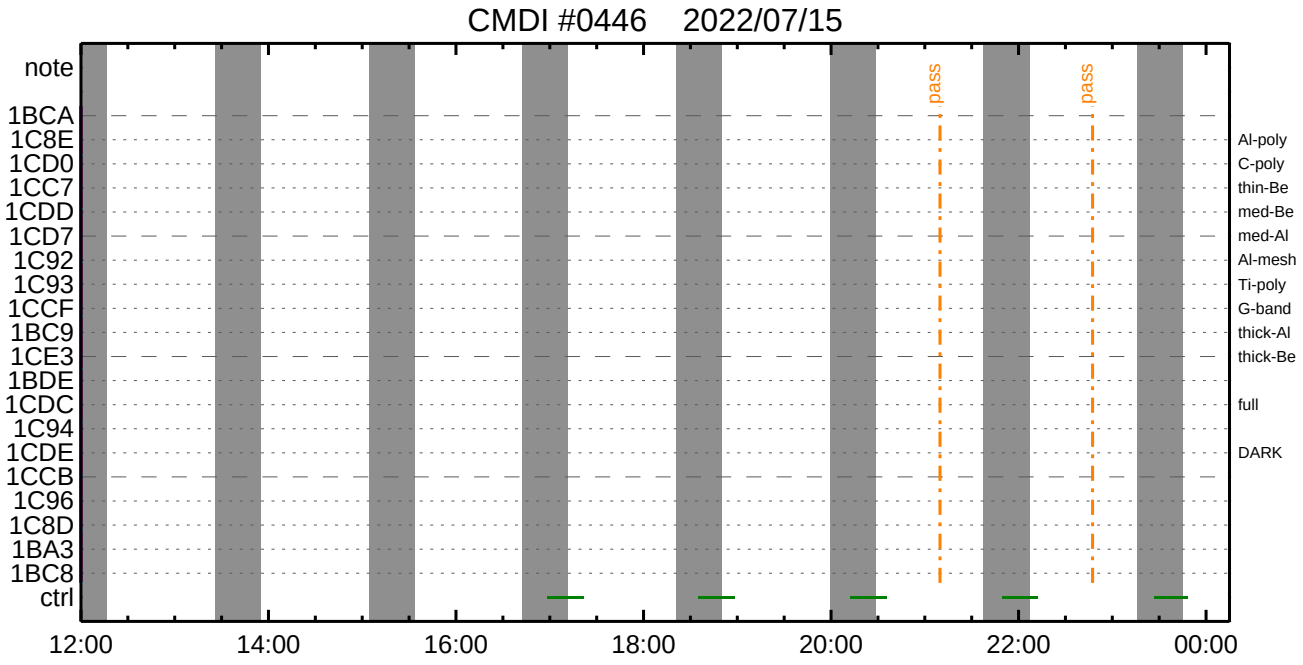

CMDI #0446 2022/07/13
note
track0
track2
pass
pass
QT
FL
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0446 2022/07/13
note
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
track0
track0
track0
pass
track0
QT
QT
QT
QT
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 #0446 2022/07/14
note
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
track2
track0
track2
pass
pass
pass
track0
QT
QT
QT
QT
FL
FL
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 #0446 2022/07/14
note
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
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 #0446 2022/07/15
note
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
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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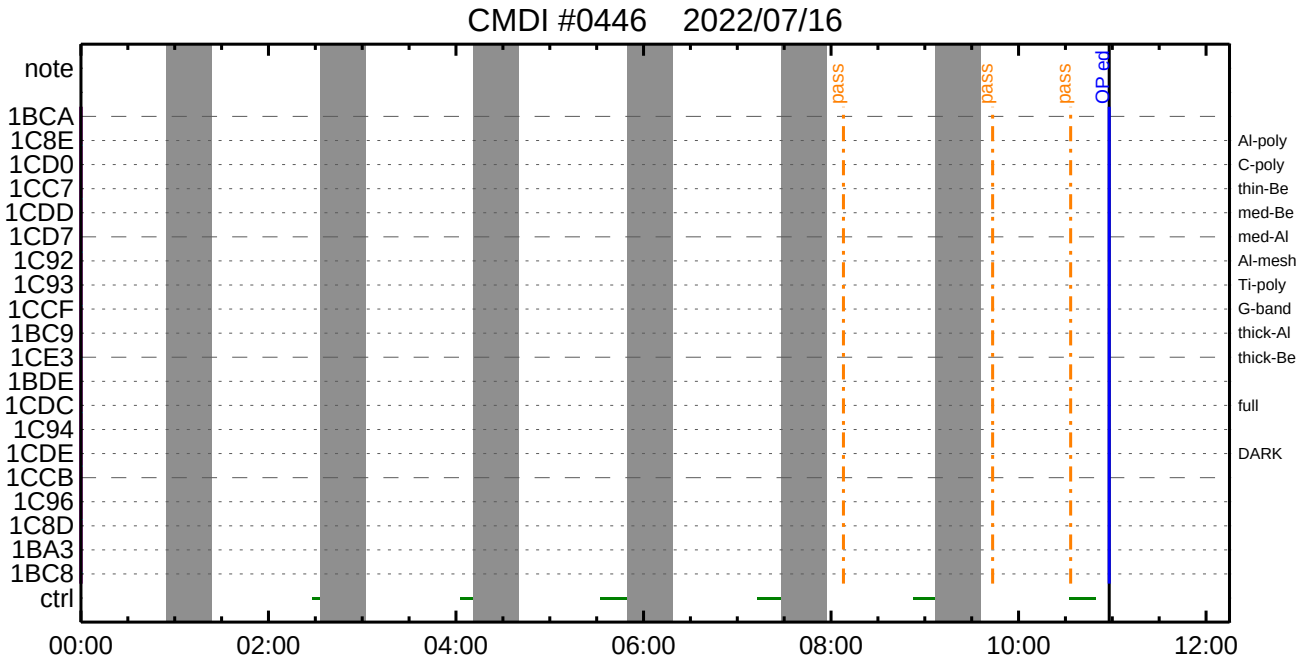
note
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00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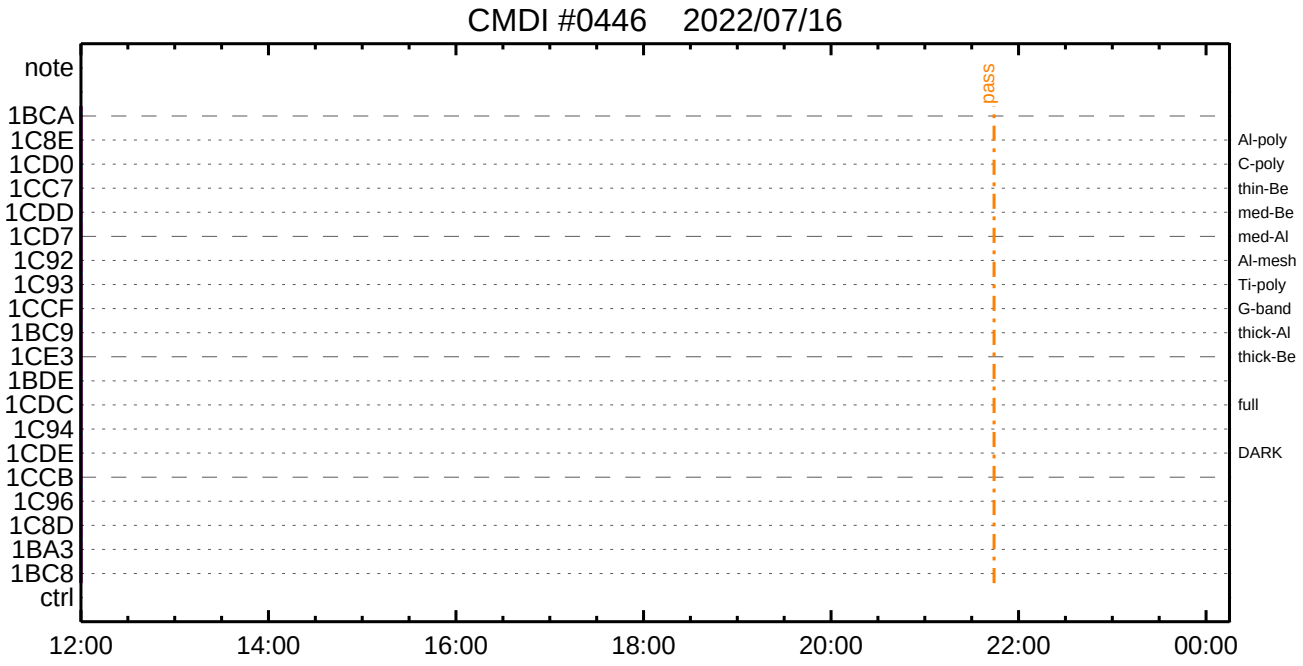
note
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
pass
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0446 2022/07/16
note
1BCA
1C8E
1CD0
1CC7
1CDD
1CD7
1C92
1C93
1CCF
1BC9
1CE3
1BDE
1CDC
1C94
1CDE
1CCB
1C96
1C8D
1BA3
1BC8
ctrl
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-279 2022-07-12 11:45:14 278 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•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¥ÈÀÚÂØ¤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¥ÈÀÚÂØ¡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
```

```
     C.
     C.
   . C. ****************************
     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
     C. ****************************
     C.
   . C. ¡ãOP/OG¥í¡¼¥É¡ä
   . S. OP    op-279:OP
     ()
   . S. OG    og-279:OG
     ()
     C.
   . C. ¡ãNMOG&OPÎÎºè¥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 2022-07-12 12:17:00.0
     DC 01-B3 DHU_OP_STOP
     C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
     C.
  +. TI 2022-07-12 12:17:01.0
     DC 01-B4 DHU_OP_COPY
     C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
     C.
  +. TI 2022-07-12 12:17:01.0
     DC 01-B5 DHU_OPOG_COPY
     C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2022-07-12 12:21:59.5
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. Stop EIS observation and temporarily disable EIS mode changes
0239     C.
0240     C.
0241     C. ********** Start EIS operation (TI set) **********
0242     C. Execute, after the success of OP upload.
0243     C. Set EIS TI-commands
0244   +. TI 2022-07-12 12:21:30.0
0245     DC 07-FC EIS_MODE_MANU
0246     BC       (21 02)
0247   +. TI 2022-07-12 12:21:40.0
0248     DC 07-FC EIS_MODE_CHG_DIS
0249     BC       (22)
0250    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0251     C. ************ End EIS operation (TI set) ***********
0252     C.
0253     C.
0254     C.
0255     C. ************ XRT START ***********
0256     C. Execute, after the success of OP upload.
0257   +. TI 2022-07-12 12:21:00.0
0258     DC 07-F0 MDP_XRT_MODE_STBY
0259     BC       (c3)
0260    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0261     C.
0262     C. ************ XRT END ***********
0263     C.
0264    . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0265     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0266    . S. DC-BC dcbc-402:DCBC
0267     (MDP_known_event)
0268     C.
0269     C.
0270    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0271    . S. DC-BC dcbc-153:DCBC
0272     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0273     C.
0274     C.
0275    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0276     C.
0277    . C. *********** LOS ***********
0278     C.
```

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(a) Spacecraft Operation Procedure (real-commands)

main-280 2022-07-12 11:45:14 128 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 = 3320045.9 +- 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 13s
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 2022-07-12 12:21:50.0
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. =====  Begin of AOCS CMD Sequence =====
0080    . C.
0081    . C. ******************************
0082    . C. ***** GAS¥Ç¡¼¥¿¼èÆÀ¼Â»Ü  *****
0083    . C. ******************************
0084    . C.
0085    . C. **************************
0086    . C.  MDRV OFF
0087    . C. **************************
0088    . C.
0089    . C. ***** GAS¥â¥Ë¥¿¤Î¤¿á MTQ¶îÆ°°ì»þÄä»ß *****
0090   +. DC 02-33 AOCU_MDRV-X_OFF
0091   +. DC 02-34 AOCU_MDRV-Y_OFF
0092   +. DC 02-35 AOCU_MDRV-Z_OFF
0093    . C.                                      [   ] <A_AOS> [COMPONENT STS] <MDRV> X = OFF ?
0094    . C.                                      [   ] <A_AOS> [COMPONENT STS] <MDRV> Y = OFF ?
0095    . C.                                      [   ] <A_AOS> [COMPONENT STS] <MDRV> Z = OFF ?
```

```
0096   . C.
0097   . C.
0098   . C.  ¡ú¥Ç¡¼¥¿¼èÆÀ¤Î¤¿¤á¡¢Ìó1minÂÔµ¡
0099   . C.
0100   . C. **************************
0101   . C.  MDRV ON
0102   . C. **************************
0103   . C.
0104   . C. ***** MTQ¶îÆ°ºÆ³« *****
0105  +. DC 02-32 AOCU_MDRV_ON
0106   . C.                                          [   ] <A_AOS> [COMPONENT STS] <MDRV> X = ON ?
0107   . C.                                          [   ] <A_AOS> [COMPONENT STS] <MDRV> Y = ON ?
0108   . C.                                          [   ] <A_AOS> [COMPONENT STS] <MDRV> Z = ON ?
0109   . C.
0110   . C.
0111   . C. =====  End of AOCS CMD Sequence =====
0112   . C.
0113     C.
0114   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0115     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0116   . S. DC-BC dcbc-402:DCBC
0117     (MDP_known_event)
0118     C.
0119     C.
0120   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0121   . S. DC-BC dcbc-153:DCBC
0122     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0123     C.
0124     C.
0125   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0126     C.
0127   . C. *********** LOS ***********
0128     C.
```

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

main-281 2022-07-12 11:45:14 224 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•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¥ÈÀÚÂØ¤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¥ÈÀÚÂØ¡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.
0099     C. ************ XRT START ************
0100     C.
0101  +. DC 07-F0 MDP_XRT_CTRL_MANU
0102     BC       (c1)
0103  +  DC 07-F0 MDP_XRT_MODE_STBY
0104     BC       (c3)
0105   . C. ----------- Success Verify ?              OK / NG____
0106     C.
0107     C. XRT Obs. Table Upload
0108   . S. RAM   ram-291:MDP_OBS_X
0109     ()
0110     C.
0111  +. DC 07-F0 MDP_DUMP_XRTTBL
0112     BC       (84 07 00 00 00 3a d4)
0113   . C. ----------- Comparison Check ?                      OK / ERR ____
0114     C.
0115     C.
0116  +. DC 07-F0 MDP_XRT_ROI_SET
0117     BC       (cd 01 b1 b1 04 04)
0118  +  DC 07-F0 MDP_XRT_ROI_SET
0119     BC       (cd 02 b1 b1 08 08)
0120  +  DC 07-F0 MDP_XRT_ROI_SET
0121     BC       (cd 03 b1 b1 08 08)
0122  +  DC 07-F0 MDP_XRT_ROI_SET
0123     BC       (cd 04 b1 b1 06 06)
0124  +  DC 07-F0 MDP_XRT_ROI_SET
0125     BC       (cd 05 85 83 06 06)
0126  +  DC 07-F0 MDP_XRT_ROI_SET
0127     BC       (cd 06 85 83 06 06)
0128  +  DC 07-F0 MDP_XRT_ROI_SET
0129     BC       (cd 07 85 83 08 08)
0130  +  DC 07-F0 MDP_XRT_ROI_SET
0131     BC       (cd 08 80 80 20 20)
0132  +  DC 07-F0 MDP_XRT_ROI_SET
0133     BC       (cd 09 80 80 08 08)
0134  +  DC 07-F0 MDP_XRT_ROI_SET
0135     BC       (cd 0a 80 80 20 08)
0136  +  DC 07-F0 MDP_XRT_ROI_SET
0137     BC       (cd 0b 80 80 08 20)
0138  +  DC 07-F0 MDP_XRT_ROI_SET
0139     BC       (cd 0c 80 80 06 06)
0140  +  DC 07-F0 MDP_XRT_ROI_SET
0141     BC       (cd 0d 80 60 20 18)
0142  +  DC 07-F0 MDP_XRT_ROI_SET
0143     BC       (cd 0e a0 80 18 20)
0144  +  DC 07-F0 MDP_XRT_ROI_SET
0145     BC       (cd 0f 80 80 06 06)
0146  +  DC 07-F0 MDP_XRT_ROI_SET
0147     BC       (cd 10 80 80 08 08)
0148  +  DC 07-F0 MDP_XRT_FLD_ENA
0149     BC       (d8)
0150  +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0151     BC       (c8)
0152  +  DC 07-F0 MDP_XRT_ARS_DIS
0153     BC       (d5)
0154  +  DC 07-F0 MDP_XRT_AEC_RESET
0155     BC       (d0)
0156  +  DC 07-F0 MDP_XRT_FLD_RESET
0157     BC       (da)
0158  +. DC 07-F0 MDP_XRT_QT_PROG_SET
0159     BC       (c4 0d)
0160  +. DC 07-F0 MDP_XRT_FL_PROG_SET
0161     BC       (c5 04)
0162   . C. ---------- Success Verify ?           OK / NG ____
0163     C.
0164     C.
0165   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0166     C.
0167  +. DC 07-F0 MDP_XRT_MODE_OBSV
0168     BC       (c2)
0169  +. TI 2022-07-12 12:21:02.0
0170     DC 07-F0 MDP_XRT_MODE_OBSV
0171     BC       (c2)
0172   . C. ---------- Success Verify ?           OK / NG ____
0173     C.
0174     C. ************ XRT END ***********
0175   . C. =====  Begin of AOCS CMD Sequence =====
0176   . C.
0177   . C. ******************************
0178   . C. ***** GAS¥Ç¡¼¥¿¼èÆÀ¼Â»Ü  *****
0179   . C. ******************************
0180   . C.
0181   . C. **************************
0182   . C.  MDRV OFF
0183   . C. **************************
0184   . C.
0185   . C. ***** GAS¥â¥Ë¥¿¤Î¤¿¤á MTQ¶îÆ°°ì»þÄä»ß *****
0186  +. DC 02-33 AOCU_MDRV-X_OFF
0187  +. DC 02-34 AOCU_MDRV-Y_OFF
0188  +. DC 02-35 AOCU_MDRV-Z_OFF
0189   . C.                                      [   ] <A_AOS> [COMPONENT STS] <MDRV> X = OFF ?
0190   . C.                                      [   ] <A_AOS> [COMPONENT STS] <MDRV> Y = OFF ?
0191   . C.                                      [   ] <A_AOS> [COMPONENT STS] <MDRV> Z = OFF ?
0192   . C.
0193   . C.
```

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0194   . C.  ¡ú¥Ç¡¼¥¿¼èÆÀ¤Î¤¿¤á¡¢Ìó1minÂÔµ¡
0195   . C.
0196   . C. ***************************
0197   . C.  MDRV ON
0198   . C. ***************************
0199   . C.
0200   . C. ***** MTQ¶îÆ°ºÆ³« *****
0201  +. DC 02-32 AOCU_MDRV_ON
0202   . C.                                          [   ] <A_AOS> [COMPONENT STS] <MDRV> X = ON ?
0203   . C.                                          [   ] <A_AOS> [COMPONENT STS] <MDRV> Y = ON ?
0204   . C.                                          [   ] <A_AOS> [COMPONENT STS] <MDRV> Z = ON ?
0205   . C.
0206   . C.
0207   . C. =====  End of AOCS CMD Sequence =====
0208   . C.
0209     C.
0210   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0211     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0212   . S. DC-BC dcbc-402:DCBC
0213     (MDP_known_event)
0214     C.
0215     C.
0216   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0217   . S. DC-BC dcbc-153:DCBC
0218     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0219     C.
0220     C.
0221   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0222     C.
0223   . C. ********** LOS **********
0224     C.
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*** OP Sequence for XRT ***

2022/07/12  12:31:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  12:31:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  12:31:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/12  12:32:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 00 06 4d 01 68
2022/07/12  12:32:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2022/07/12  12:32:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2022/07/12  12:32:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2022/07/12  12:32:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/12  12:32:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  12:34:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 12
2022/07/12  12:34:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2022/07/12  12:35:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  13:17:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  13:17:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  13:17:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  13:17:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/12  13:20:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/12  13:47:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/12  13:48:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  14:56:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  14:56:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  14:56:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  14:56:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/12  14:59:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/12  15:25:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/12  15:26:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  16:19:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  16:19:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  16:19:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/12  16:20:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2022/07/12  16:20:18.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/12  16:20:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/12  16:20:22.0  XRT_ARS_DIS_442_OG [0x1ba]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/12  16:22:58.0  XRT_QT_PROG_SET_433_OG [0x1b1]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2022/07/12  16:23:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  16:31:30.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  16:31:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  16:31:34.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/12  16:31:54.0  XRT_FLD_DIS_432_OG [0x1b0]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/12  16:33:54.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/12  16:33:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/12  16:33:58.0  XRT_QT_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2022/07/12  16:34:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  16:49:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  16:49:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  16:49:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2022/07/12  16:50:00.0  AOCS_ORe-point_Start_3_OG [0x099]
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                                        AOCU_NM              5 02-76 04 06 4d 01 68
2022/07/12  16:50:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2022/07/12  16:50:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2022/07/12  16:50:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2022/07/12  16:50:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/12  16:50:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  16:52:56.0  XRT_QT_PROG_SET_407_OG [0x197]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2022/07/12  16:52:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2022/07/12  17:14:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/12  17:15:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  18:13:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  18:13:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  18:13:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  18:13:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/12  18:16:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/12  18:51:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/12  18:52:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  19:51:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  19:51:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  19:51:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  19:51:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/12  19:54:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/12  20:27:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/12  20:28:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  21:29:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  21:29:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  21:29:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  21:29:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/12  21:32:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/12  22:05:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/12  22:06:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/12  23:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  23:08:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/12  23:08:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/12  23:08:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/12  23:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/12  23:40:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/12  23:41:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  00:46:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  00:46:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  00:46:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  00:46:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  00:49:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  01:15:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  01:16:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  02:21:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  02:21:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  02:21:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  02:21:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  02:24:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
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2022/07/13  02:54:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  02:55:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  03:54:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  03:54:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  03:54:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  03:54:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  03:57:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  03:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  03:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  03:59:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/13  04:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2022/07/13  04:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2022/07/13  04:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2022/07/13  04:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2022/07/13  04:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/13  04:00:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  04:02:56.0  XRT_QT_PROG_SET_431_OG [0x1af]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2022/07/13  04:02:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2022/07/13  04:32:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  04:33:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  05:24:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  05:24:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  05:24:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  05:24:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  05:27:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  06:10:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  06:11:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  06:17:00.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  06:17:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  06:17:04.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/13  06:17:24.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/13  06:17:26.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/13  06:17:28.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/13  06:17:30.0  XRT_QT_PROG_SET_417_OG [0x1a1]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2022/07/13  06:17:32.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  06:25:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  06:25:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  06:25:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2022/07/13  06:26:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM              5 02-76 02 06 4d 01 68
2022/07/13  06:26:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2022/07/13  06:26:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2022/07/13  06:26:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2022/07/13  06:26:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/13  06:26:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  06:28:56.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2022/07/13  06:28:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2022/07/13  06:29:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  07:04:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
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2022/07/13  07:04:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  07:04:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  07:04:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  07:07:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  07:49:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  07:50:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  08:44:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  08:44:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  08:44:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  08:44:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  08:47:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  09:27:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  09:28:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  10:24:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  10:24:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  10:24:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  10:24:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  10:27:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  11:06:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  11:07:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  12:15:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  12:15:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  12:15:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  12:15:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  12:18:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  12:44:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  12:45:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  13:53:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  13:53:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  13:53:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  13:53:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  13:56:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  14:22:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  14:23:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  15:31:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  15:31:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  15:31:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  15:31:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  15:34:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  16:02:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  16:03:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  17:10:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  17:10:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  17:10:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  17:10:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  17:13:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  17:49:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  17:50:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  18:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  18:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
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2022/07/13  18:29:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/13  18:30:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2022/07/13  18:30:18.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/13  18:30:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/13  18:30:22.0  XRT_ARS_DIS_442_OG [0x1ba]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/13  18:32:58.0  XRT_QT_PROG_SET_433_OG [0x1b1]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2022/07/13  18:33:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  18:40:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 00 54 72 00 00
2022/07/13  18:45:30.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  18:45:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  18:45:34.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/13  18:45:54.0  XRT_FLD_DIS_432_OG [0x1b0]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/13  18:47:54.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/13  18:47:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/13  18:47:58.0  XRT_QT_PROG_SET_428_OG [0x1ac]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2022/07/13  18:48:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  18:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  18:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  18:59:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2022/07/13  19:00:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 ad 59 00 00
2022/07/13  19:00:18.0  XRT_FLD_DIS_403_OG [0x193]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/13  19:17:54.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/13  19:17:56.0  XRT_ARS_DIS_426_OG [0x1aa]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/13  19:17:58.0  XRT_QT_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2022/07/13  19:18:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  20:26:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  20:26:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  20:26:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  20:26:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  20:29:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  21:02:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/13  21:03:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  21:44:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  21:44:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  21:44:58.0  XRT_FOCUS_POSITION_444_OG [0x1bc]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2022/07/13  21:45:00.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                AOCU_NM              5 02-76 00 00 00 56 35
2022/07/13  21:45:18.0  XRT_FLD_DIS_414_OG [0x19e]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/13  21:59:54.0  XRT_ARS_DIS_426_OG [0x1aa]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/13  21:59:56.0  XRT_FLRCTRL_DIS_449_OG [0x1c1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/13  21:59:58.0  XRT_QT_PROG_SET_401_OG [0x191]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 13
2022/07/13  22:00:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  22:05:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  22:05:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  22:05:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  22:05:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  22:08:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/13  22:39:30.5  XRT_Custom_430_OG [0x1ae]
2022/07/13  22:40:30.5  XRT_CTRL_AUTO_424_OG [0x1a8]
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                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/13  23:43:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  23:43:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/13  23:43:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/13  23:43:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/13  23:46:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/14  00:14:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/14  00:15:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  00:44:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  00:44:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  00:44:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2022/07/14  00:45:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                        AOCU_NM              5 02-76 02 06 4d 01 68
2022/07/14  00:45:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2022/07/14  00:45:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2022/07/14  00:45:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2022/07/14  00:45:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/14  00:45:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  00:47:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0f
2022/07/14  00:47:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2022/07/14  00:48:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  01:22:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  01:22:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  01:22:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  01:22:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/14  01:25:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/14  01:51:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/14  01:52:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  02:54:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  02:54:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  02:54:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  02:54:06.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/14  02:57:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/14  03:29:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/14  03:30:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  03:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  03:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  03:59:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/14  04:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2022/07/14  04:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2022/07/14  04:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2022/07/14  04:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2022/07/14  04:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/14  04:00:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  04:02:56.0  XRT_QT_PROG_SET_431_OG [0x1af]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2022/07/14  04:02:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2022/07/14  04:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  04:27:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  04:27:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  04:27:34.0  XRT_FLD_RESET_415_OG [0x19f]
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                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  04:27:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/14  04:30:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/14  05:08:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/14  05:09:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  05:37:00.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  05:37:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  05:37:04.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2022/07/14  05:37:24.0  XRT_FLD_DIS_409_OG [0x199]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2022/07/14  05:37:26.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2022/07/14  05:37:28.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/14  05:37:30.0  XRT_QT_PROG_SET_433_OG [0x1b1]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2022/07/14  05:37:32.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  05:43:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  05:43:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  05:43:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2022/07/14  05:44:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 02 06 4d 01 68
2022/07/14  05:44:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2022/07/14  05:44:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2022/07/14  05:44:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2022/07/14  05:44:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2022/07/14  05:44:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  05:46:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0f
2022/07/14  05:46:58.0  XRT_FL_PROG_SET_418_OG [0x1a2]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 04
2022/07/14  05:47:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  06:00:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  06:00:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  06:00:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  06:00:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/14  06:03:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/14  06:46:00.0  XRT_Custom_430_OG [0x1ae]
2022/07/14  06:47:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  07:40:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  07:40:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  07:40:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  07:40:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/14  07:43:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/14  08:24:30.0  XRT_Custom_430_OG [0x1ae]
2022/07/14  08:25:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2022/07/14  09:20:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  09:20:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2022/07/14  09:20:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2022/07/14  09:20:36.0  XRT_PREFLR_STRT_436_OG [0x1b4]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2022/07/14  09:23:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2022/07/14  09:56:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
```