# XRT Timeline to be uploaded on 2026/09/29

Period: 2026/09/29 11:56:00 - 2026/10/03 11:52:00

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

**XOB #1CA7: AR - Filter-Ratio with thin-Be (long/short pairs) and Med-Be (short) with PFB, 384x384 at 1064 1048, with G-band (1ms/1ms VLS=CLS), 120 cad**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 09/29 12:09:00 - 09/29 13:09:54 | Track ( 540.0, 70.8) @ 09/29 12:06:00 | # OP start + 10min AR observations |
| 09/29 15:43:00 - 09/29 17:19:54 | Track ( 565.4, 73.2) @ 09/29 15:40:00 | AR observations |
| 09/29 17:33:00 - 09/30 03:59:54 | Track ( 578.2, 74.5) @ 09/29 17:30:00 | HOP 548 |
| 09/30 06:17:30 - 09/30 07:49:54 | Track ( 661.7, 84.1) @ 09/30 06:14:30 | AR observations |

**PROG= 05 Inf.-time(s)**

**Subr= 1 1-time(s) 2.0sec**

**Seqn= 92 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |

**Subr= 2 60-time(s) 120.0sec**

**Seqn= 37 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 | 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 |
| med-Be/Open | Open/thick-Al | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |

**Seqn= 59 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 | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 2.0sec |
| med-Be/Open | Open/thick-Al | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 1 | 2.0sec |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 2.0sec |
| med-Be/Open | Open/thick-Al | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 2 | 2.0sec |

**XOB #1BB5: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 120s cad (G-band/Leak first)**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 09/29 13:13:00 - 09/29 15:39:54 | Fixed ( 950.0, 0.0) | EIS off-limb observations |

**PROG= 12 Inf.-time(s)**

**Subr= 1 1-time(s) 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) 120.0sec**

**Seqn= 8 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM | 2 | 0 | 2.0sec |

**Seqn= 6 1-time(s) 2.0sec**

| 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 |

**XOB #1D2F: Synoptic 8 Filter w/ Al-mesh(5/181/1443), Al-poly(12/256/2048), Thin-Be(45/1024/8192), Thick-Be(65536), Med-Al(256/8192/32768), Med-Be(128/5**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 09/29 17:23:00 - 09/29 17:29:54 | Fixed ( 0.0, 0.0) | synoptic, shifted manually |
| 09/30 06:07:30 - 09/30 06:14:24 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted 4.5 min |

**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= 66 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 | 5ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Ti-poly | close | Safe | Norm | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

**Seqn= 22 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 | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

**Seqn= 19 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 | 44ms | 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 | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

**Seqn= 23 1-time(s) 4.0sec**

| 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 |

**Subr= 2 1-time(s) 2.0sec**

**Seqn= 65 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open/thick-Be | Open/thick-Be | close | Safe | Norm | 64.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |

**Seqn= 17 1-time(s) 2.0sec**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| med-Al/Open | med-Al/thick-Al | close | Safe | Norm | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| med-Al/Open | med-Al/thick-Al | close | Safe | Norm | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| med-Al/Open | med-Al/Open | close | Safe | Norm | 32.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| **Seqn= 33 1-time(s) 2.0sec** | | | | | | | | | | | | |
| med-Be/Open | Open/thick-Al | close | Safe | Norm | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| med-Be/Open | med-Be/Open | close | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| med-Be/Open | med-Be/Open | close | Safe | Norm | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| **Seqn= 89 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm | 63ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |

**XOB #1C47: HOP349 - 3-filter Synoptics (Al-mesh[8/181/2897], Al-poly[16/181/4096], thin-Be[64/1024/11571] with 512x512 G-band+Leak(1064,1048) - 45 min**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 09/30 04:03:00 - 09/30 06:04:24 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted 4.5 min |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PROG= 09 Inf.-time(s)** | | | | | | | | | | | | | |
| **Subr= 1 1-time(s) 300.0sec** | | | | | | | | | | | | | |
| **Seqn=100 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 | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 2.83s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| **Seqn= 84 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 16ms | 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 | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| **Seqn= 57 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 | 11.3s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 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 |
| **Subr= 2 15-time(s) 180.0sec** | | | | | | | | | | | | | |
| **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= 6 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM | 2 | 0 | 2.0sec |
| **Seqn= 29 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 250ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 2 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |

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

**XOB #1D35: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + Gb**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 09/29 12:09:00 - 09/29 13:09:54 | Track ( 540.0, 70.8) @ 09/29 12:06:00 | # OP start + 10min AR observations |
| 09/29 13:13:00 - 09/29 15:39:54 | Fixed ( 950.0, 0.0) | EIS off-limb observations |
| 09/29 15:43:00 - 09/29 17:19:54 | Track ( 565.4, 73.2) @ 09/29 15:40:00 | AR observations |
| 09/29 17:33:00 - 09/30 03:59:54 | Track ( 578.2, 74.5) @ 09/29 17:30:00 | HOP 548 |
| 09/30 04:03:00 - 09/30 06:04:24 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted 4.5 min |
| 09/30 06:17:30 - 09/30 07:49:54 | Track ( 661.7, 84.1) @ 09/30 06:14:30 | AR observations |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PROG= 14 30-time(s)** | | | | | | | | | | | | | |
| **Subr= 1 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| **Seqn= 68 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| **Subr= 2 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= 3 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| **Seqn= 10 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| med-Al/Open | med-Al/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| Open/thick-Be | Open/thick-Be | close | Safe | Norm | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| **Seqn= 11 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| **Seqn= 87 1-time(s) 2.0sec** | | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |

## ✲ ✲ ✲ ✲ ✲ Active Region Search ✲ ✲ ✲ ✲ ✲

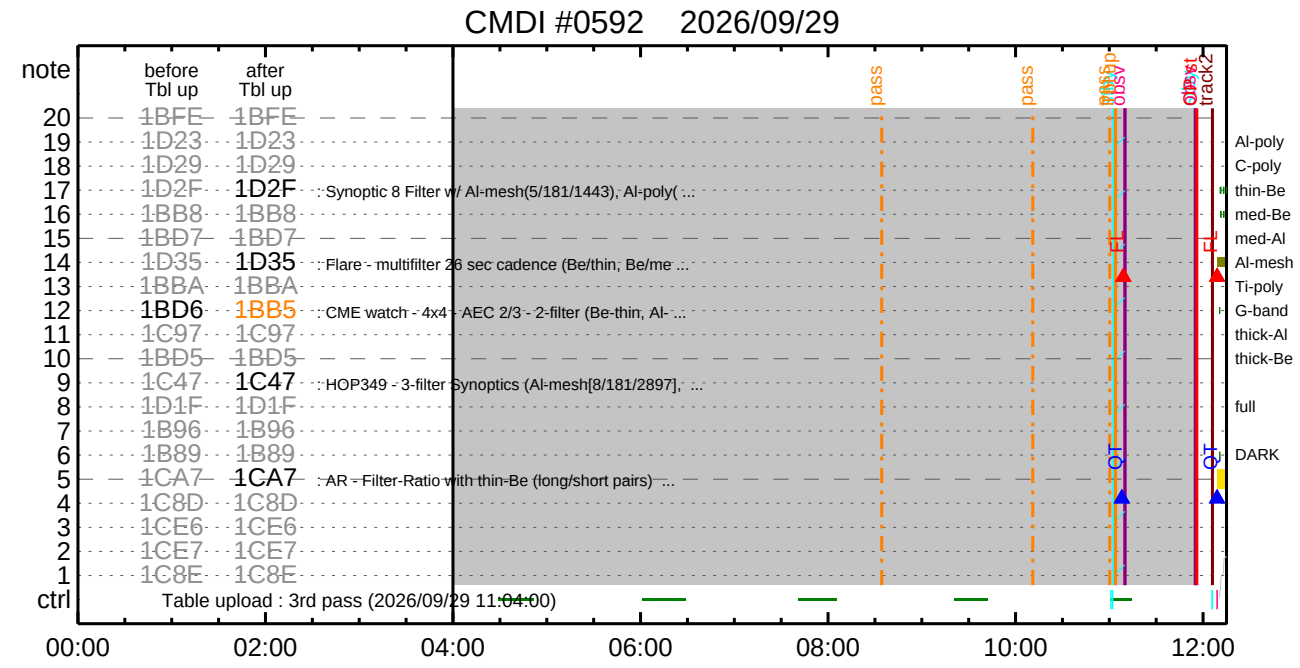
NOT USED

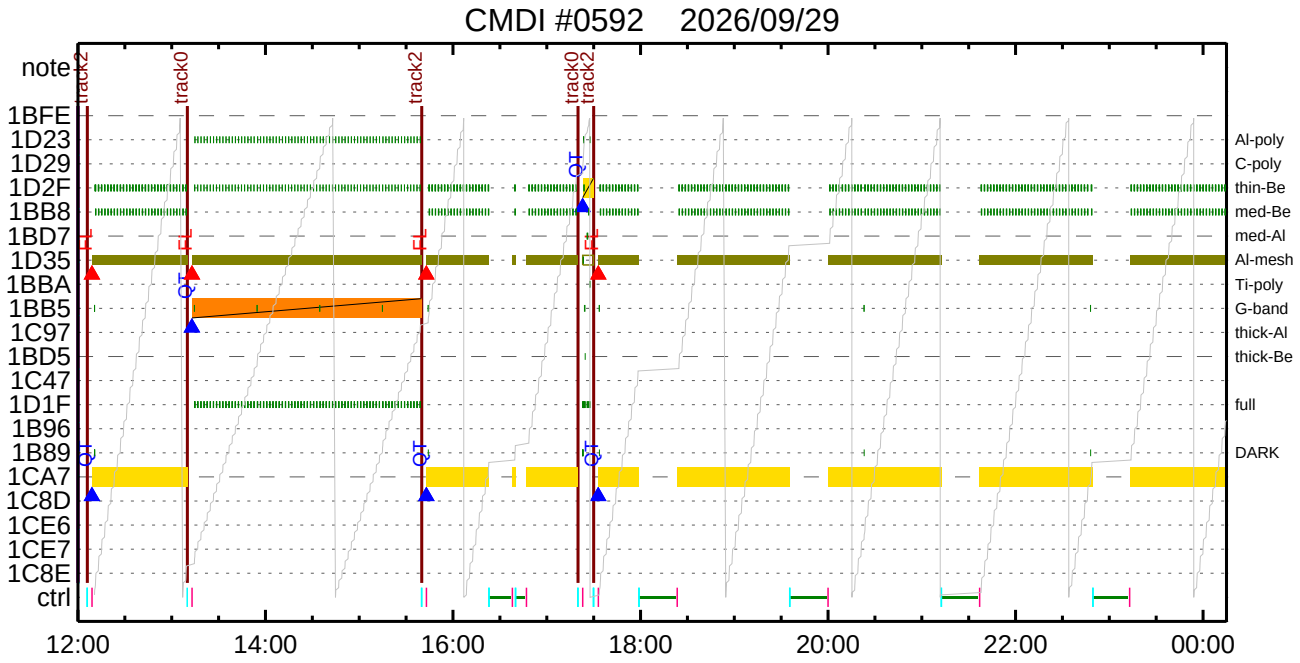
## ✲ ✲ ✲ ✲ ✲ Flare Detection ✲ ✲ ✲ ✲ ✲

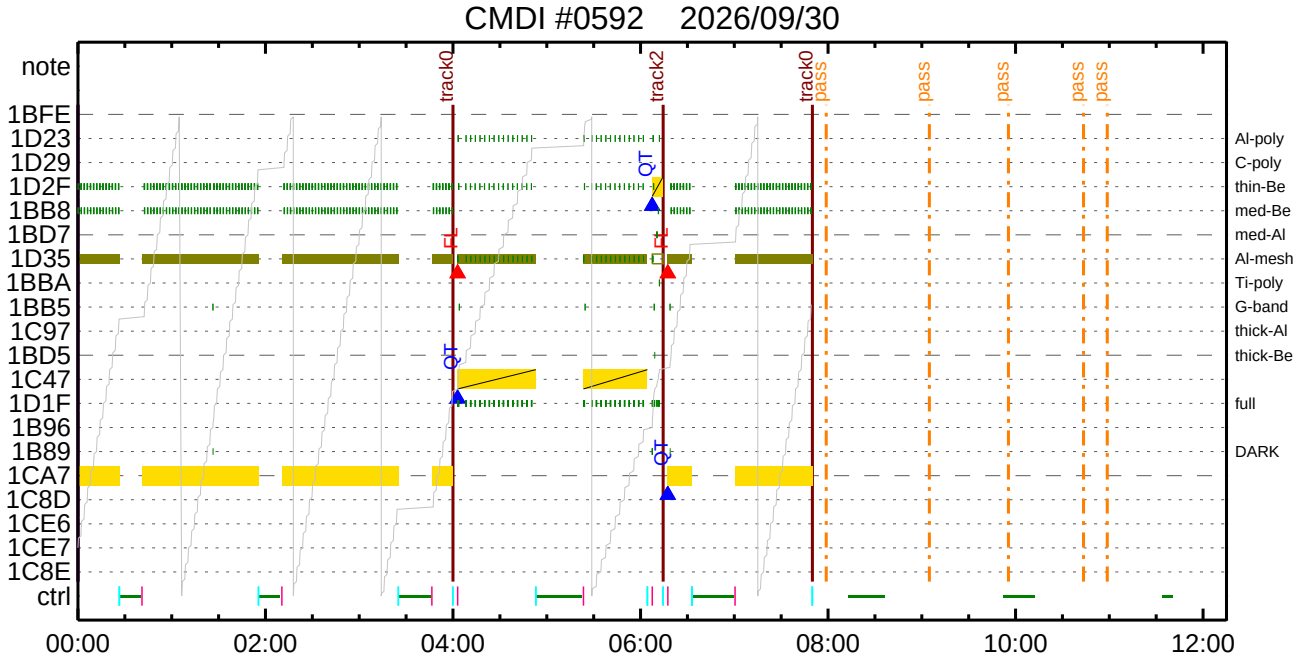
**FLD Patrol**

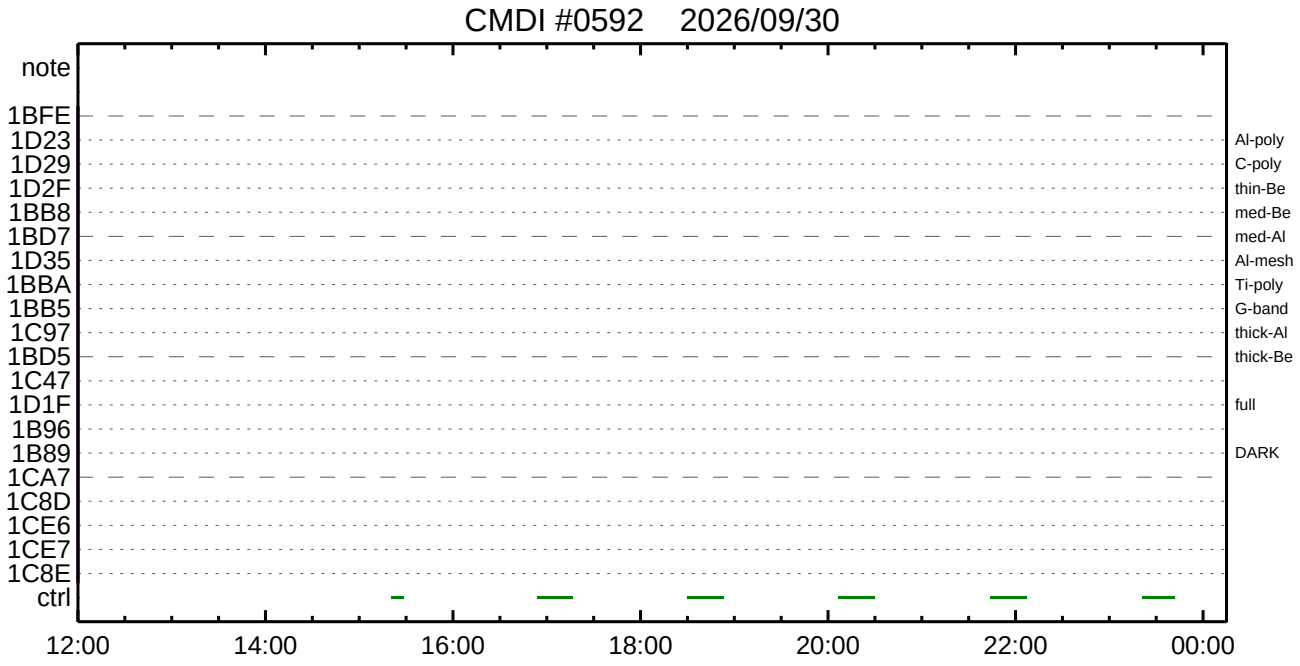
| Term | Pointing (x, y) | Comment |
|---|---|---|
| 09/29 11:05:00 - 09/29 17:20:18 | cannot be identified | |
| 09/29 17:30:18 - 09/30 06:04:48 | Track ( 578.2, 74.5) @ 09/29 17:30:00 | HOP 548 |
| 09/30 06:14:48 - 10/03 11:52:00 | Track ( 661.7, 84.1) @ 09/30 06:14:30 | AR observations |

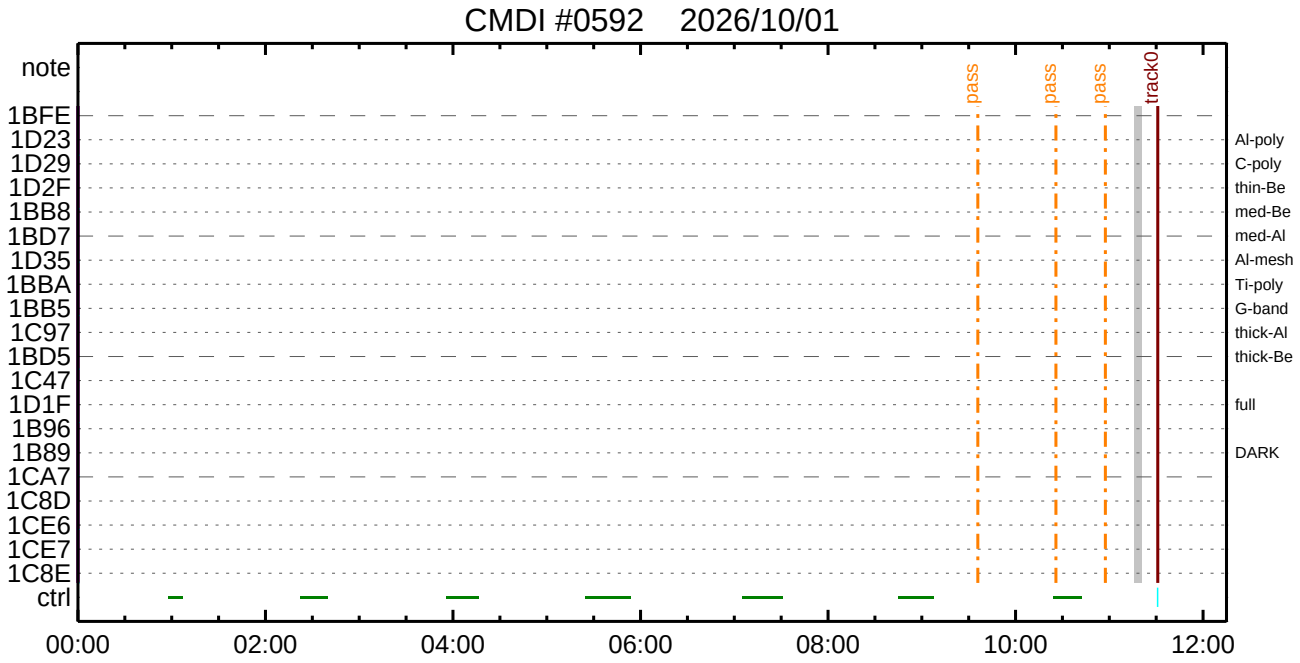
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 4ms | Obs | 8x8 | | Q=50 | | 30sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

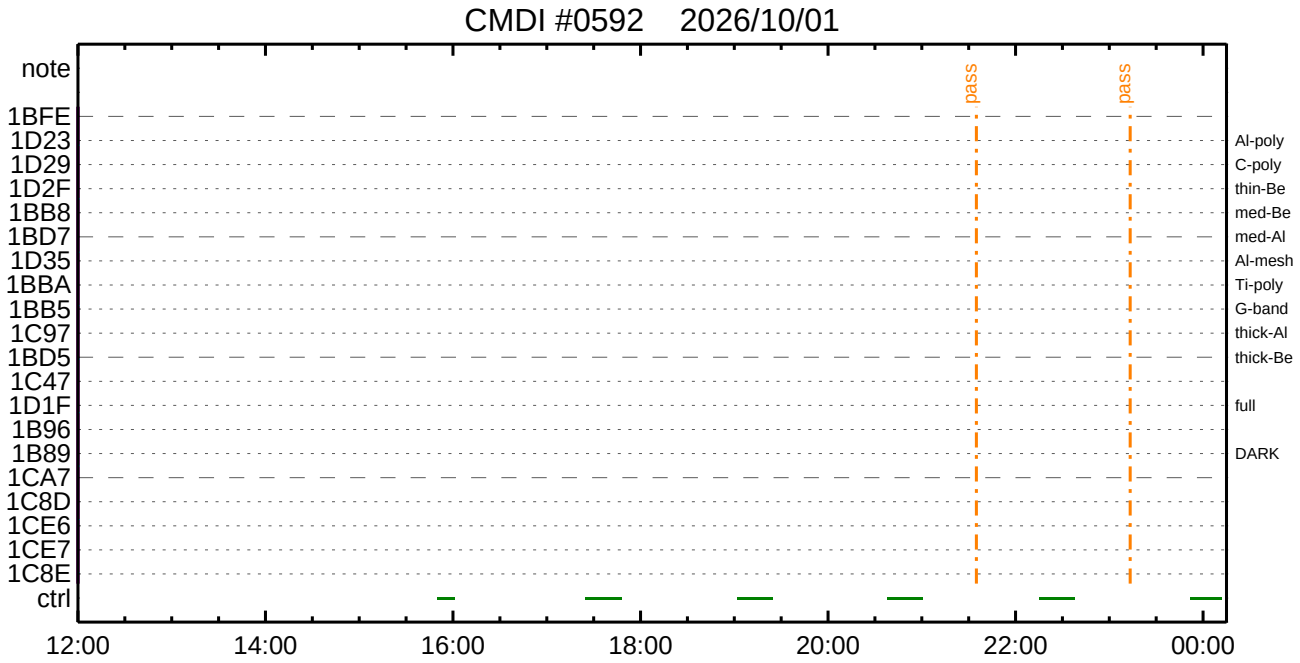

CMDI #0592 2026/09/29
note
before Tbl up
after Tbl up
1BFE 1BFE
1D23 1D23
1D29 1D29
1D2F 1D2F : Synoptic 8 Filter w/ Al-mesh(5/181/1443), Al-poly( ...
1BB8 1BB8
1BD7 1BD7
1D35 1D35 : Flare - multifilter 26 sec cadence (Be/thin, Be/me ...
1BBA 1BBA
1BD6 1BB5 : CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al- ...
1C97 1C97
1BD5 1BD5
1C47 1C47 : HOP349 - 3-filter Synoptics (Al-mesh[8/181/2897], ...
1D1F 1D1F
1B96 1B96
1B89 1B89
1CA7 1CA7 : AR - Filter-Ratio with thin-Be (long/short pairs) ...
1C8D 1C8D
1CE6 1CE6
1CE7 1CE7
1C8E 1C8E
ctrl
Table upload : 3rd pass (2026/09/29 11:04:00)
pass
pass
obsvp
track2
FL
QT
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

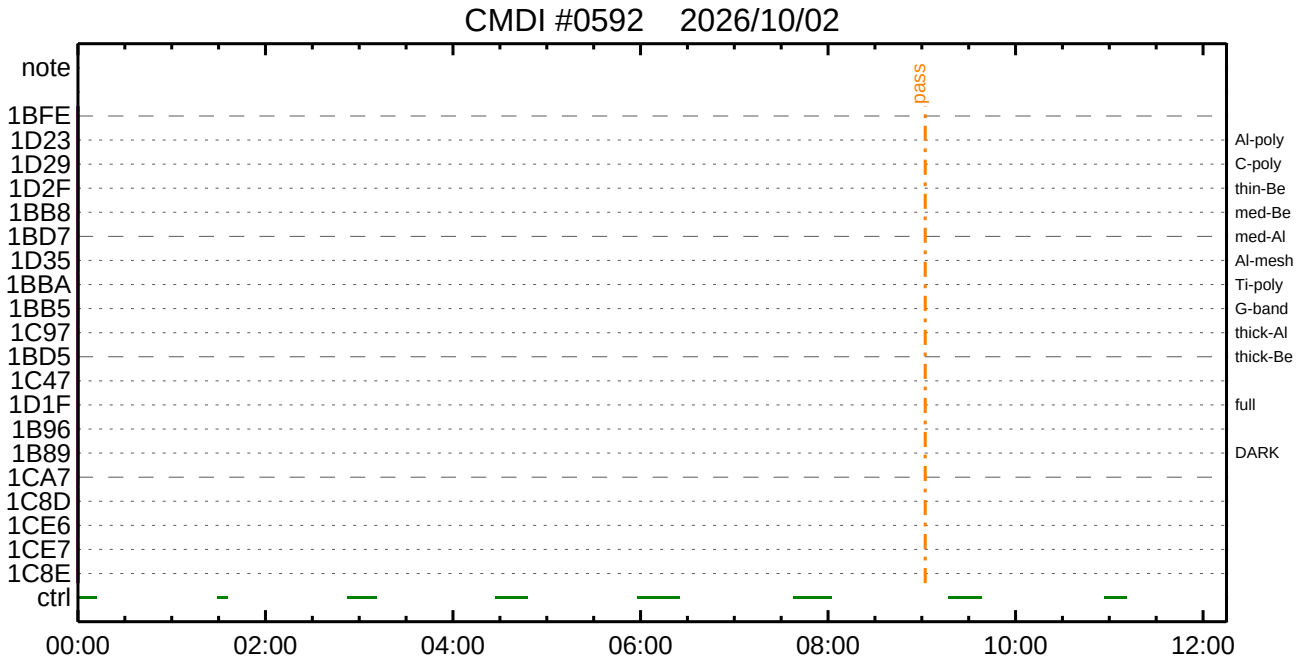

CMDI #0592 2026/09/29
note
track2
track0
track2
track0
track2
FL
QT
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

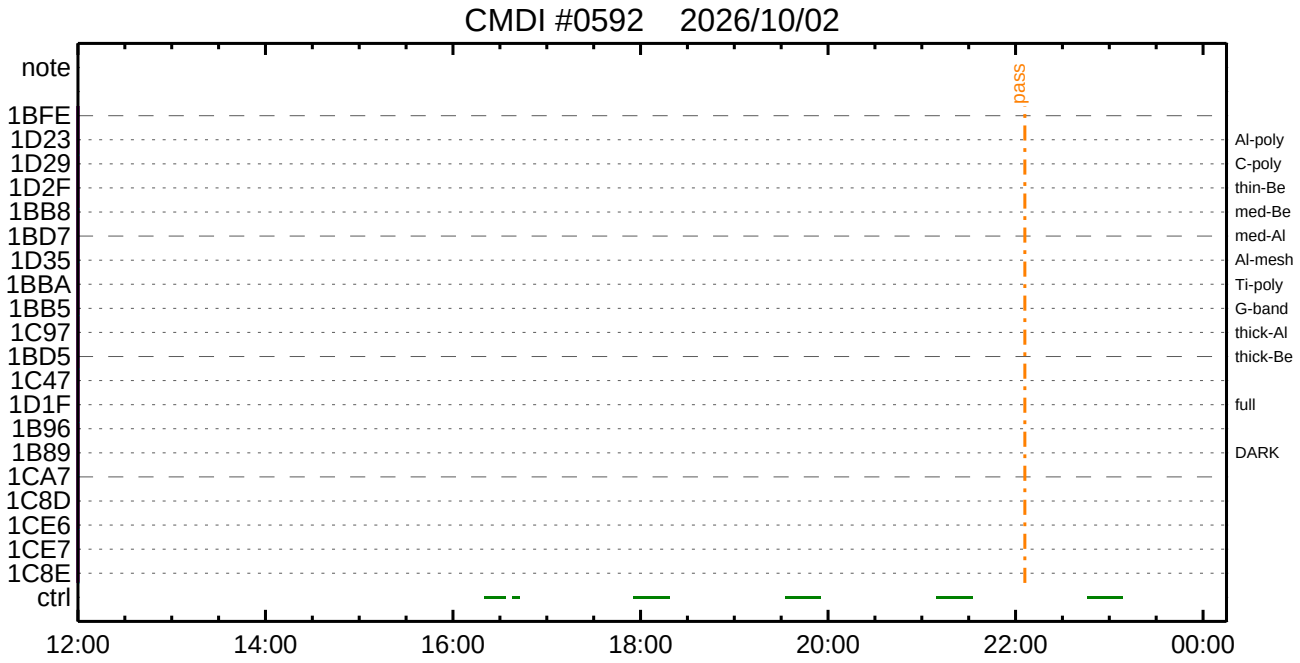

CMDI #0592 2026/09/30
note
track0
track2
track0
pass
pass
pass
pass
pass
FL
QT
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

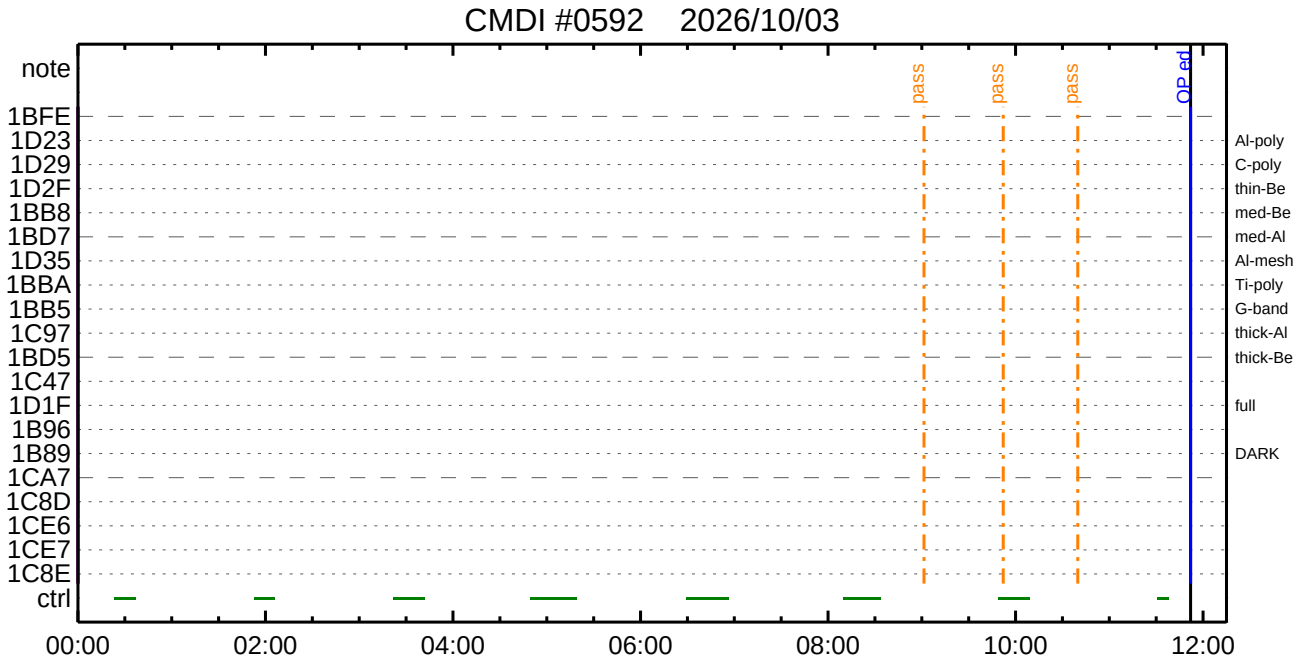

CMDI #0592 2026/09/30
note
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

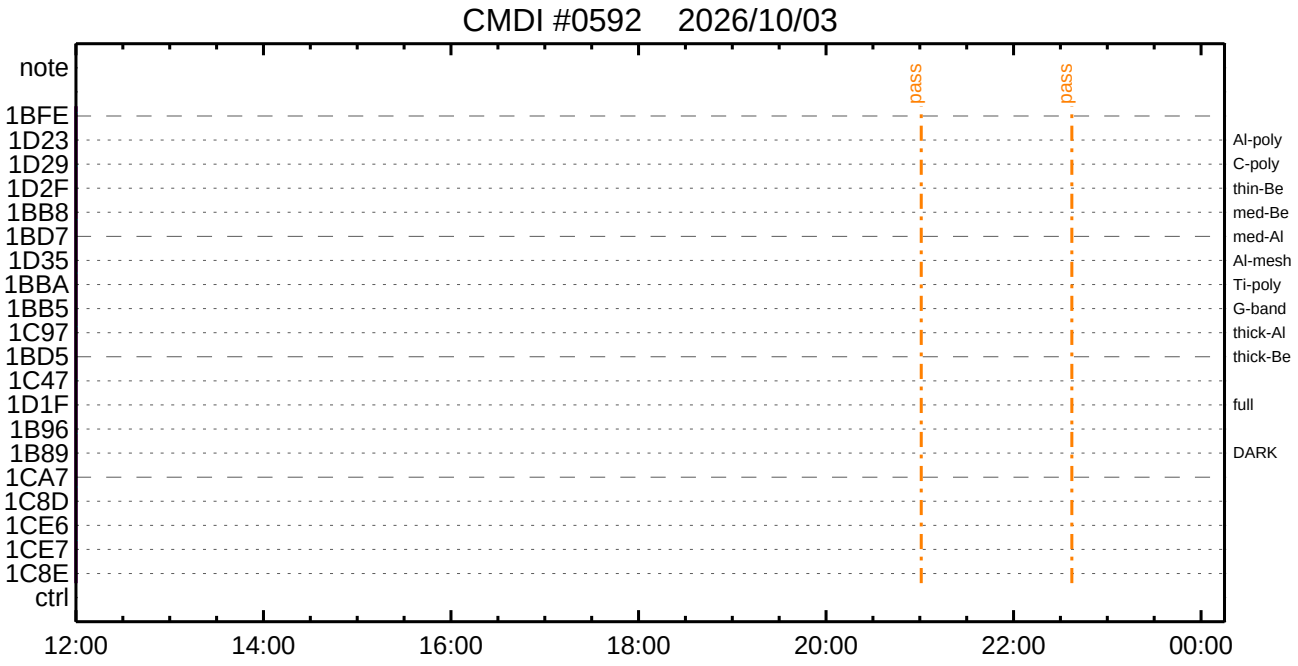

CMDI #0592 2026/10/01
note
pass
pass
pass
track0
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0592 2026/10/01
note
pass
pass
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
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 #0592 2026/10/02
note
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
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


CMDI #0592 2026/10/02
note
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
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 #0592 2026/10/03
note
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
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 #0592 2026/10/03
note
1BFE
1D23
1D29
1D2F
1BB8
1BD7
1D35
1BBA
1BB5
1C97
1BD5
1C47
1D1F
1B96
1B89
1CA7
1C8D
1CE6
1CE7
1C8E
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

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

main-251 2026-09-29 11:35:02 278 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¡ÊËè½µ•îÍË¡Ë¤Ë¼°ÇÔ¤•¤¿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. ¢¨ °ÆÀ¸Í×È¥¤äLOS¤Þ¤Ç¤Î»Þ´Ö¤ò¹ÍÎ¸¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê•¤¿¤é¡¢°Ê²¼¤Î°ÆÀ¸¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ï°ÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1°ÆÀ¸³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡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. PT1°ÆÀ¸¤¬¼«°Ää»ß¤•¤¿¸å¡¢¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ï°ÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2°ÆÀ¸³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡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. DR°ÆÀ¸Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDR°ÆÀ¸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. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0100     C. ****************************
0101     C.
0102   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0103   . S. OP    op-251:OP
0104     ()
0105   . S. OG    og-251:OG
0106     ()
0107     C.
0108   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0109     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0110   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111     BC       (20 00 7f 01 02)
0112     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0113     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0114     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0115     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0116     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0117   +. DC 01-22 DHU_MODE_CHNG
0118     BC       (07 0b f8)
0119     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0120     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0121     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0122     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0123     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0124   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0125     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0126   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0127     C.
0128     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0129   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130     BC       (20 80 7f 01 02)
0131     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0132     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0133     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0134     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0135     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0136   +. DC 01-22 DHU_MODE_CHNG
0137     BC       (07 0b f8)
0138     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0139     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0140     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0141     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0142     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0143   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0144     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0145   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0146     C.
0147     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149     BC       (21 00 41 01 02)
0150     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0151     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0152     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0153     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0154     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0155   +. DC 01-22 DHU_MODE_CHNG
0156     BC       (07 0b f8)
0157     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0158     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0159     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0160     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0161     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0162   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0163     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0164   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0165     C.
0166   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0167     C. DHU¥â¡¼¥É¡Ê¼ý¸¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0168   +. DC 01-22 DHU_MODE_CHNG
0169     BC       (02 0a f8)
0170     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     2
0171     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0172     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0173     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0174     C.
0175   . C. ********************************
0176     C. TI-CMD SET (OPOG STOP/COPY/START)
0177     C. ********************************
0178     C.
0179   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
0180     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¥Ç¹Ô¤¦¤³¤È¡£
0181     C.
0182   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0183   +. TI 2026-09-29 11:51:00.0
0184     DC 01-B3 DHU_OP_STOP
0185     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0186     C.
0187   +. TI 2026-09-29 11:51:01.0
0188     DC 01-B4 DHU_OP_COPY
0189     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0190     C.
0191   +. TI 2026-09-29 11:51:01.0
0192     DC 01-B5 DHU_OPOG_COPY
0193     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2026-09-29 11:55:59.5
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 2026-09-29 11:55:30.0
0245     DC 07-FC EIS_MODE_MANU
0246     BC       (21 02)
0247   +. TI 2026-09-29 11:55:40.0
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 2026-09-29 11:55:00.0
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.
```

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

main-252 2026-09-29 11:35:02 178 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥$¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼°ÇÔ¤•¤¿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. ¢¨ °ÆÀ¸Í×È¥¤äLOS¤Þ¤Ç¤Î»Þ´Ö¤ò¹ÍÎ¸¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê•¤¿¤é¡¢°Ê²¼¤Î°ÆÀ¸¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ï°ÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1°ÆÀ¸³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡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. PT1°ÆÀ¸¤¬¼«°Ää»ß¤•¤¿¸å¡¢¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ï°ÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢¢°Ê²¼¤Ï¼Â¹Ô¤»¤°¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2°ÆÀ¸³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤Î°ÆÀ¸°Æ³«¡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. DR°ÆÀ¸Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDR°ÆÀ¸Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ***** AOCS Commands (Tracking Curve Upload) ******
0099     C. Upload the Orbit Element and the Target Attitude
0100     C. RAM-ID:TARGET_ATT
0101   . S. RAM   ram-150:TARGET_ATT
0102     ()
0103     C.
0104     C.
0105     C. Set the dump memory area of TARGET_ATT
0106   +. DC 02-48 AOCU_DUMP_SET
0107     BC       (07 00 00 00 18 00)
0108     C.
0109     C.    <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110     C.
0111     C.
0112     C. Change the TLMFormatNo for the AOCS Dump Format
0113   +. DC 01-22 DHU_MODE_CHNG
0114     BC       (04 0b f8)
0115     C.
0116     C. Wait for AOCSDUMP to end
0117     C.
0118   . C. Check the dump memory
0119     C.
0120     C.                                      Result = OK [ ]
0121     C.
0122   +. DC 01-22 DHU_MODE_CHNG
0123     BC       (02 0a f8)
0124     C.
0125     C.                         <A_***>[TLM STS] FMT = 2 [ ]
0126     C.
0127   +. DC 02-8E AOCU_ORB_UPD
0128    . C.
0129    . C. ***** AOCS Commands (Orbital Element Update) *****
0130     C. Update the orbital element
0131   +. DC 02-50 AOCU_ORB_PRPGT_START
0132     BC       (16)
0133   +  DC 02-8E AOCU_ORB_UPD
0134     C.
0135     C.       <A_ORB>[ORBIT] EPC = 1601289.1 +- 1.0 (s) [ ]
0136     C.
0137    . C.
0138    . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139   +. DC 07-FC EIS_MODE_CHG_ENA
0140     BC       (20)
0141    . C. Verify EIS_MODE_CHG_FLG is ENA
0142   +. DC 07-FC EIS_MODE_MANU
0143     BC       (21 02)
0144    . C. Verify EIS in MANUAL mode
0145    . C. Estimated OBSTBL upload time is 13s
0146     C. *********************************
0147     C. EIS START OBSTBL LOAD
0148     C. *********************************
0149    . S. RAM   ram-820:EIS_OBSTBL
0150     ()
0151   +. DC 07-FC EIS_DUMP_OBSTBL
0152     BC       (07 07 07 00 00 70 00)
0153     C.
0154     C. Execute, after the success of OBSTBL upload.
0155     C. Set EIS TI-commands
0156   +. TI 2026-09-29 11:55:50.0
0157     DC 07-FC EIS_MODE_CHG_ENA
0158     BC       (20)
0159    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0160     C. *********************************
0161     C. EIS END OBSTBL LOAD
0162     C. *********************************
0163     C.
0164    . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0165     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0166    . S. DC-BC dcbc-402:DCBC
0167     (MDP_known_event)
0168     C.
0169     C.
0170    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0171    . S. DC-BC dcbc-153:DCBC
0172     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0173     C.
0174     C.
0175    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0176     C.
0177    . C. ********** LOS **********
0178     C.
```

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(a) Spacecraft Operation Procedure (real-commands)

main-253 2026-09-29 11:35:02 100 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¤Ë¼°ÇÔ¤•¤¿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. ************ XRT START ************
0016     C.
0017   +. DC 07-F0 MDP_XRT_CTRL_MANU
0018     BC       (c1)
0019   +. DC 07-F0 MDP_XRT_CTRL_MANU
0020     BC       (c1)
0021   +  DC 07-F0 MDP_XRT_MODE_STBY
0022     BC       (c3)
0023   . C. ----------- Success Verify ?              OK / NG____
0024     C.
0025     C. XRT Obs. Table Upload
0026   . S. RAM   ram-291:MDP_OBS_X
0027     ()
0028     C.
0029   +. DC 07-F0 MDP_DUMP_XRTTBL
0030     BC       (84 07 00 00 00 3a d4)
0031   . C. ----------- Comparison Check ?                        OK / ERR ____
0032     C.
0033     C.
0034   +. DC 07-F0 MDP_XRT_ROI_SET
0035     BC       (cd 01 b1 b1 04 04)
0036   +  DC 07-F0 MDP_XRT_ROI_SET
0037     BC       (cd 02 b1 b1 08 08)
0038   +  DC 07-F0 MDP_XRT_ROI_SET
0039     BC       (cd 03 b1 b1 08 08)
0040   +  DC 07-F0 MDP_XRT_ROI_SET
0041     BC       (cd 04 b1 b1 06 06)
0042   +  DC 07-F0 MDP_XRT_ROI_SET
0043     BC       (cd 06 85 83 06 06)
0044   +  DC 07-F0 MDP_XRT_ROI_SET
0045     BC       (cd 07 80 80 08 08)
0046   +  DC 07-F0 MDP_XRT_ROI_SET
0047     BC       (cd 08 80 80 20 20)
0048   +  DC 07-F0 MDP_XRT_ROI_SET
0049     BC       (cd 09 80 80 20 08)
0050   +  DC 07-F0 MDP_XRT_ROI_SET
0051     BC       (cd 0a 80 80 08 20)
0052   +  DC 07-F0 MDP_XRT_ROI_SET
0053     BC       (cd 0b 85 83 08 08)
0054   +  DC 07-F0 MDP_XRT_ROI_SET
0055     BC       (cd 0f 80 80 06 06)
0056   +  DC 07-F0 MDP_XRT_ROI_SET
0057     BC       (cd 10 80 80 08 08)
0058   +  DC 07-F0 MDP_XRT_FLD_ENA
0059     BC       (d8)
0060   +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0061     BC       (c8)
0062   +  DC 07-F0 MDP_XRT_ARS_DIS
0063     BC       (d5)
0064   +  DC 07-F0 MDP_XRT_AEC_RESET
0065     BC       (d0)
0066   +  DC 07-F0 MDP_XRT_FLD_RESET
0067     BC       (da)
0068   +. DC 07-F0 MDP_XRT_QT_PROG_SET
0069     BC       (c4 05)
0070   +. DC 07-F0 MDP_XRT_FL_PROG_SET
0071     BC       (c5 0e)
0072   . C. ---------- Success Verify ?            OK / NG ____
0073     C.
0074     C.
0075   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0076     C.
0077   +. DC 07-F0 MDP_XRT_MODE_OBSV
0078     BC       (c2)
0079   +. TI 2026-09-29 11:55:02.0
0080     DC 07-F0 MDP_XRT_MODE_OBSV
0081     BC       (c2)
0082   . C. ---------- Success Verify ?            OK / NG ____
0083     C.
0084     C. ************ XRT END ***********
0085     C.
0086   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0087     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0088   . S. DC-BC dcbc-402:DCBC
0089     (MDP_known_event)
0090     C.
0091     C.
0092   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0093   . S. DC-BC dcbc-153:DCBC
0094     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0095     C.
```

```
0096     C.
0097   . C. ¡ãLOS¥Á¥$¥Ã¥¯¼Â»Ü¡ä
0098     C.
0099   . C. *********** LOS ***********
0100     C.
```

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

2026/09/29  12:05:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  12:05:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  12:05:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2026/09/29  12:06:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 02 03 e7 02 0c
2026/09/29  12:06:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2026/09/29  12:06:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2026/09/29  12:06:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2026/09/29  12:06:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/29  12:06:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  12:08:56.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2026/09/29  12:08:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2026/09/29  12:09:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  13:09:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  13:09:56.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2026/09/29  13:10:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 ab 8e
2026/09/29  13:10:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2026/09/29  13:10:18.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2026/09/29  13:10:20.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2026/09/29  13:10:22.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/29  13:10:24.0  XRT_FLD_RESET_446_OG [0x1be]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  13:12:56.0  XRT_QT_PROG_SET_417_OG [0x1a1]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2026/09/29  13:12:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2026/09/29  13:13:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  15:39:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  15:39:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  15:39:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2026/09/29  15:40:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 02 03 e7 02 0c
2026/09/29  15:40:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2026/09/29  15:40:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2026/09/29  15:40:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2026/09/29  15:40:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/29  15:40:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  15:42:56.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2026/09/29  15:42:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2026/09/29  15:43:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  16:23:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  16:23:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  16:23:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  16:23:06.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/29  16:26:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/29  16:37:00.0  XRT_Custom_430_OG [0x1ae]
2026/09/29  16:38:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  16:40:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  16:40:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  16:40:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  16:40:06.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
```

```
2026/09/29  16:43:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/29  16:46:00.0  XRT_Custom_430_OG [0x1ae]
2026/09/29  16:47:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  17:19:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  17:19:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  17:19:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2026/09/29  17:20:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
2026/09/29  17:20:18.0  XRT_FLD_DIS_409_OG [0x199]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2026/09/29  17:20:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2026/09/29  17:20:22.0  XRT_ARS_DIS_435_OG [0x1b3]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/29  17:22:58.0  XRT_QT_PROG_SET_404_OG [0x194]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2026/09/29  17:23:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  17:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  17:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  17:29:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2026/09/29  17:30:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 02 03 e7 02 0c
2026/09/29  17:30:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2026/09/29  17:30:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2026/09/29  17:30:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2026/09/29  17:30:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/29  17:30:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  17:32:56.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2026/09/29  17:32:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2026/09/29  17:33:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  17:59:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  17:59:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  17:59:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  17:59:06.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/29  18:02:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/29  18:22:30.0  XRT_Custom_430_OG [0x1ae]
2026/09/29  18:23:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  19:35:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  19:35:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  19:35:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  19:35:36.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/29  19:38:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/29  19:59:00.5  XRT_Custom_430_OG [0x1ae]
2026/09/29  20:00:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  21:12:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  21:12:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  21:12:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  21:12:36.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/29  21:15:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/29  21:36:00.0  XRT_Custom_430_OG [0x1ae]
2026/09/29  21:37:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/29  22:49:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  22:49:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/29  22:49:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/29  22:49:36.0  XRT_PREFLR_STRT_421_OG [0x1a5]
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                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/29  22:52:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/29  23:12:00.5  XRT_Custom_430_OG [0x1ae]
2026/09/29  23:13:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  00:26:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  00:26:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  00:26:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  00:26:36.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/30  00:29:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/30  00:40:00.0  XRT_Custom_430_OG [0x1ae]
2026/09/30  00:41:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  01:55:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  01:55:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  01:55:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  01:55:36.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/30  01:58:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/30  02:09:30.0  XRT_Custom_430_OG [0x1ae]
2026/09/30  02:10:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  03:25:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  03:25:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  03:25:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  03:25:06.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/30  03:28:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/30  03:45:30.0  XRT_Custom_430_OG [0x1ae]
2026/09/30  03:46:30.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  03:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  03:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  03:59:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2026/09/30  04:00:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2026/09/30  04:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2026/09/30  04:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2026/09/30  04:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2026/09/30  04:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/30  04:00:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  04:02:56.0  XRT_QT_PROG_SET_405_OG [0x195]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2026/09/30  04:02:58.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2026/09/30  04:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  04:53:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  04:53:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  04:53:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  04:53:06.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/30  04:56:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/30  05:22:30.0  XRT_Custom_430_OG [0x1ae]
2026/09/30  05:23:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  06:04:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  06:04:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  06:04:28.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2026/09/30  06:04:48.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2026/09/30  06:04:50.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2026/09/30  06:04:52.0  XRT_ARS_DIS_435_OG [0x1b3]
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                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/30  06:07:28.0  XRT_QT_PROG_SET_404_OG [0x194]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2026/09/30  06:07:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  06:14:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  06:14:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  06:14:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2026/09/30  06:14:30.0  AOCS_ORe-point_Start_1_OG [0x097]
                                    AOCU_NM              5 02-76 02 03 e7 02 0c
2026/09/30  06:14:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2026/09/30  06:14:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2026/09/30  06:14:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2026/09/30  06:14:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2026/09/30  06:14:56.0  XRT_FLD_RESET_434_OG [0x1b2]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  06:17:26.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2026/09/30  06:17:28.0  XRT_FL_PROG_SET_439_OG [0x1b7]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0e
2026/09/30  06:17:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  06:33:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  06:33:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  06:33:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  06:33:06.0  XRT_PREFLR_STRT_421_OG [0x1a5]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/30  06:36:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/09/30  06:59:30.0  XRT_Custom_430_OG [0x1ae]
2026/09/30  07:00:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2026/09/30  07:49:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  07:49:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  07:49:58.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2026/09/30  07:50:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2026/09/30  07:50:00.5  XRT_PREFLR_STRT_421_OG [0x1a5]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2026/09/30  07:50:01.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/09/30  07:53:08.5  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2026/10/01  11:30:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2026/10/01  11:31:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM              5 02-76 00 00 00 00 00
```