

# XRT Timeline to be uploaded on 2022/07/14

Period: 2022/07/14 09:46:00 - 2022/07/19 11:23:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

## XOB #1C91: 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), 180s

| Term                                 | Pointing (x, y)   | Comment                                    |
|--------------------------------------|---|--|
| 07/14 10:04:00 - 07/14 17:29:54      | Track ( 386.7, -398.1) <sup>Ⓢ 07/14 09:56:00</sup>            | # OP start + 10min. AR 13055 observations. |
| 07/14 18:25:00 - 07/15 03:27:30      | Track ( 598.6, 136.2) <sup>Ⓢ 07/14 18:05:00</sup>             | # AR 13053 observations.                   |
| 07/15 06:07:00 - 07/15 18:04:54      | Track ( 671.3, 141.2) <sup>Ⓢ 07/15 06:04:00</sup>             | # AR cont.                                 |
| 07/15 18:59:30 - 07/15 23:16:00      | Track ( 737.9, 147.2) <sup>Ⓢ 07/15 18:40:00</sup>             | # AR cont.                                 |
| 07/16 06:36:30 - 07/16 10:32:30      | Track ( 790.6, 153.6) <sup>Ⓢ 07/16 06:33:30</sup>             | # AR cont.                                 |
| <b>PROG= 11 Inf.-time(s)</b>         |   |  |
| └─ 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                            |
| └─ 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 40-time(s) 180.0sec       |   |  |
| └─ Seqn= 94 1-time(s) 40.0sec        |   |  |
| └─ 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) 40.0sec        |   |  |
| └─ 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 #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                              |
|--|---|--------------------------------------|
| 07/14 17:33:00 - 07/14 17:42:30        | Fixed ( 0.0, 0.0)   | synoptic, shifted.                   |
| 07/15 05:56:32 - 07/15 06:03:54        | Fixed ( 0.0, 0.0)   | synoptic, shifted -6.0 min + HOP 349 |
| 07/15 18:08:00 - 07/15 18:18:00        | Fixed ( 0.0, 0.0)   | synoptic                             |
| 07/16 06:26:32 - 07/16 06:33:24        | Fixed ( 0.0, 0.0)   | synoptic, shifted 23.5 min + HOP 349 |
| <b>PROG= 17 1-time(s)</b>              |   |                                      |
| └─ 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= 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= 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                      |
| 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                                     |
|-------------------------------------|--|---|
| 07/14 17:45:00 - 07/14 18:04:54     | Fixed ( 910.0, 0.0)                            | # XRT stray light measurement at west limb. |
| 07/15 18:20:30 - 07/15 18:39:54     | Fixed ( -940.0, 0.0)                           | # XRT stray light measurement at east limb. |
| <b>PROG= 08 1-time(s)</b>           |  |   |
| └─ 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 |
| <b>Seqn= 95 3-time(s) 10.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 #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                              |
|---------------------------------|-------------------|--------------------------------------|
| 07/15 04:06:00 - 07/15 05:56:00 | Fixed ( 0.0, 0.0) | synoptic, shifted -6.0 min + HOP 349 |
| 07/16 04:41:00 - 07/16 06:26:00 | Fixed ( 0.0, 0.0) | synoptic, shifted 23.5 min + HOP 349 |

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

|                                    |                  |       |      |       |       |     |     |                        |       |            |          |        |
|------------------------------------|------------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| <b>Subr= 1 1-time(s) 300.0sec</b>  |                  |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 55 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 15 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 79 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 30 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Subr= 2 15-time(s) 360.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 8 1-time(s) 2.0sec</b>    |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 74 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 6 1-time(s) 2.0sec</b>    |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 29 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 #1B97: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 360s cad (G-band/Leak last)**

| Term                            | Pointing (x, y)                         | Comment    |
|---------------------------------|---|------------|
| 07/15 23:49:00 - 07/16 03:44:54 | Track ( -16.0, -143.6) @ 07/15 23:45:00 | # HOP 393. |

**PROG= 01 Inf.-time(s)**

|                                    |                |       |      |       |       |     |     |                        |       |            |          |        |
|------------------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| <b>Subr= 1 10-time(s) 360.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 8 1-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 6 1-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Subr= 2 1-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 30 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| Default Filter                     | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

**XOB #1CE4: High corona study modified synoptic Q95 2x2 -Dark cal(2x2 4x4 8x8 2048x512 512x2048) + Al/mesh(2/128/4x723ms) + Al-poly(12/181/4x1443ms)**

| Term                            | Pointing (x, y)        | Comment                        |
|---------------------------------|------------------------|--------------------------------|
| 07/16 03:48:00 - 07/16 03:59:54 | Fixed ( -530.0, 530.0) | # XRT high coronal structures. |

**PROG= 20 1-time(s)**

|                                   |                |       |      |       |       |     |     |                        |       |            |          |        |
|-----------------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| <b>Subr= 1 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 5 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Subr= 2 2-time(s) 240.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 44 1-time(s) 30.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| Open/Al-mesh                      | Open/Al-mesh   | close | Safe | Norm  | 707ms | 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 |
| 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  | 707ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 78 1-time(s) 30.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| Al-poly/Open                      | Al-poly/thick-Al | close | Safe | Norm  | 1.41s | 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 |
| <b>Seqn= 68 1-time(s) 50.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |
| 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 |
| thin-Be/Open                      | thin-Be/Open     | close | Safe | Norm  | 2.83s | 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 |
| thin-Be/Open                      | thin-Be/Open     | close | Safe | Norm  | 2.83s | 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 |
| thin-Be/Open                      | thin-Be/Open     | close | Safe | Norm  | 2.83s | 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 |        |

\* \* \* \* \*

### 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                                    |
|---------------------------------|--|--|
| 07/14 10:04:00 - 07/14 17:29:54 | Track ( 386.7, -398.1) <sup>Ⓜ 07/14 09:56:00</sup> | # OP start + 10min. AR 13055 observations. |
| 07/14 18:25:00 - 07/15 03:27:30 | Track ( 598.6, 136.2) <sup>Ⓜ 07/14 18:05:00</sup>  | # AR 13053 observations.                   |
| 07/15 04:06:00 - 07/15 05:56:00 | Fixed ( 0.0, 0.0)                                  | synoptic, shifted -6.0 min + HOP 349       |
| 07/15 06:07:00 - 07/15 18:04:54 | Track ( 671.3, 141.2) <sup>Ⓜ 07/15 06:04:00</sup>  | # AR cont.                                 |
| 07/15 18:59:30 - 07/15 23:16:00 | Track ( 737.9, 147.2) <sup>Ⓜ 07/15 18:40:00</sup>  | # AR cont.                                 |
| 07/15 23:49:00 - 07/16 03:44:54 | Track ( -16.0, -143.6) <sup>Ⓜ 07/15 23:45:00</sup> | # HOP 393.                                 |
| 07/16 03:48:00 - 07/16 03:59:54 | Fixed ( -530.0, 530.0)                             | # XRT high coronal structures.             |
| 07/16 04:41:00 - 07/16 06:26:00 | Fixed ( 0.0, 0.0)                                  | synoptic, shifted 23.5 min + HOP 349       |
| 07/16 06:36:30 - 07/16 10:32:30 | Track ( 790.6, 153.6) <sup>Ⓜ 07/16 06:33:30</sup>  | # AR cont.                                 |

#### PROG= 04 30-time(s)

|                                   |                  |       |      |       |       |     |     |                      |       |            |          |        |
|-----------------------------------|------------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 1 20-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 11 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                      | Al-poly/thick-Al | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| <b>Seqn= 73 1-time(s) 10.0sec</b> |                  |       |      |       |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Subr= 2 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 10 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Seqn= 11 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                      | Al-poly/thick-Al | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| <b>Seqn= 87 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| 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

\* \* \* \* \*

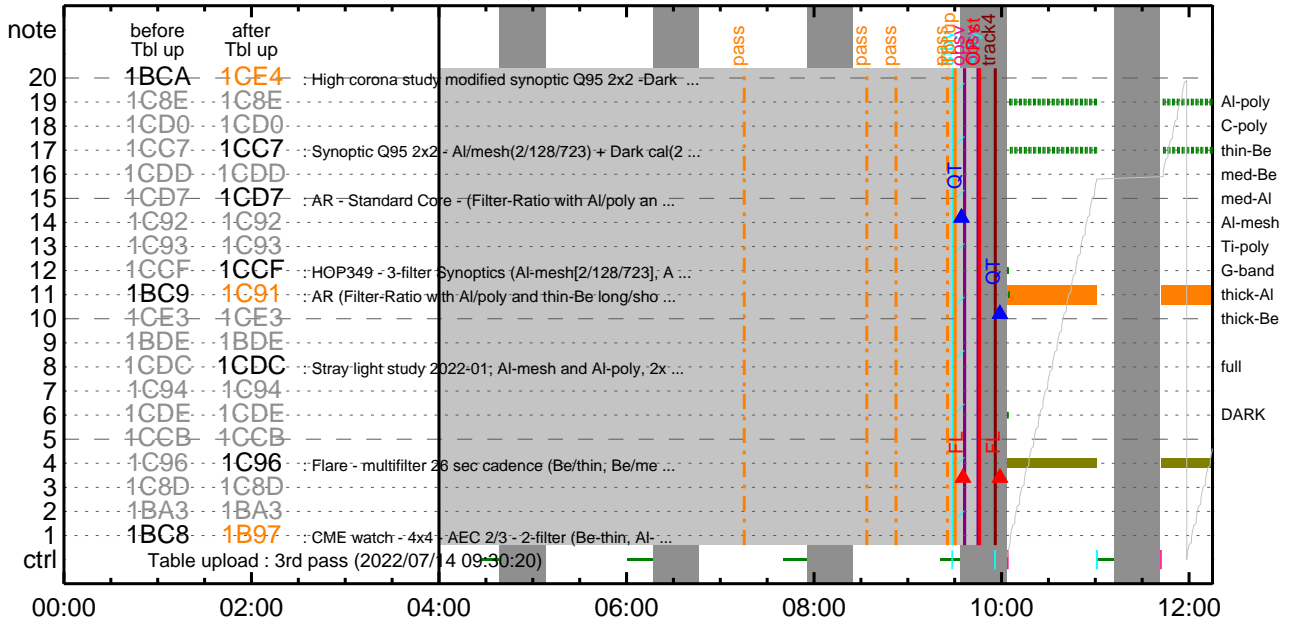
### Flare Detection

\* \* \* \* \*

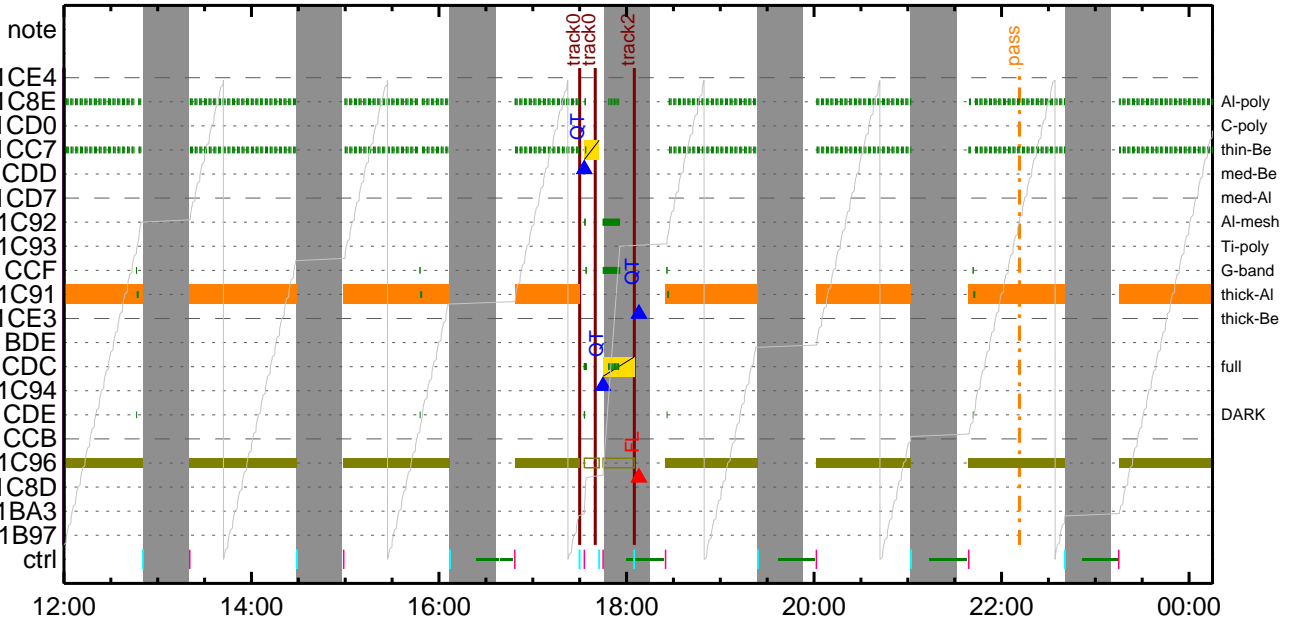
#### FLD Patrol

| Term                            | Pointing (x, y)                                   | Comment                  |      |       |      |     |     |                    |       |            |          |
|---------------------------------|---|--------------------------|------|-------|------|-----|-----|--------------------|-------|------------|----------|
| 07/14 09:31:20 - 07/14 17:30:18 | cannot be identified                              |                          |      |       |      |     |     |                    |       |            |          |
| 07/14 18:05:18 - 07/15 05:56:24 | Track ( 598.6, 136.2) <sup>Ⓜ 07/14 18:05:00</sup> | # AR 13053 observations. |      |       |      |     |     |                    |       |            |          |
| 07/15 06:04:18 - 07/15 18:05:18 | Track ( 671.3, 141.2) <sup>Ⓜ 07/15 06:04:00</sup> | # AR cont.               |      |       |      |     |     |                    |       |            |          |
| 07/15 18:40:18 - 07/16 06:26:24 | Track ( 737.9, 147.2) <sup>Ⓜ 07/15 18:40:00</sup> | # AR cont.               |      |       |      |     |     |                    |       |            |          |
| 07/16 06:33:48 - 07/19 11:23:00 | Track ( 790.6, 153.6) <sup>Ⓜ 07/16 06:33:30</sup> | # AR cont.               |      |       |      |     |     |                    |       |            |          |
| 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 |

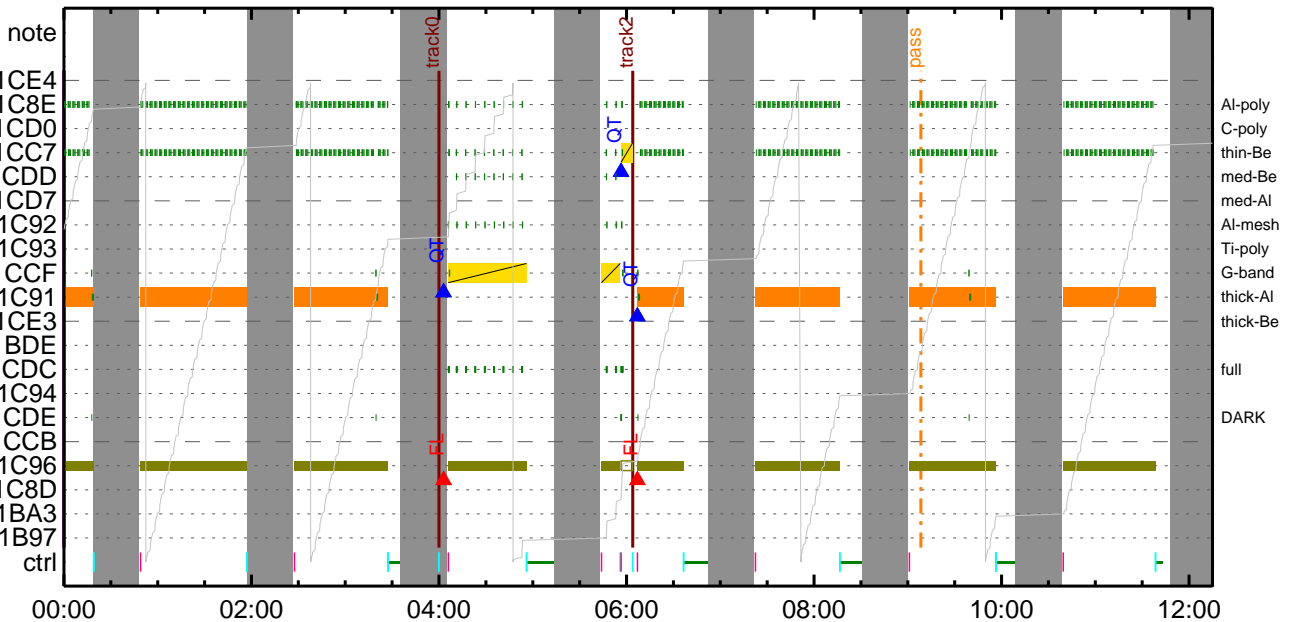
### CMDI #0453 2022/07/14



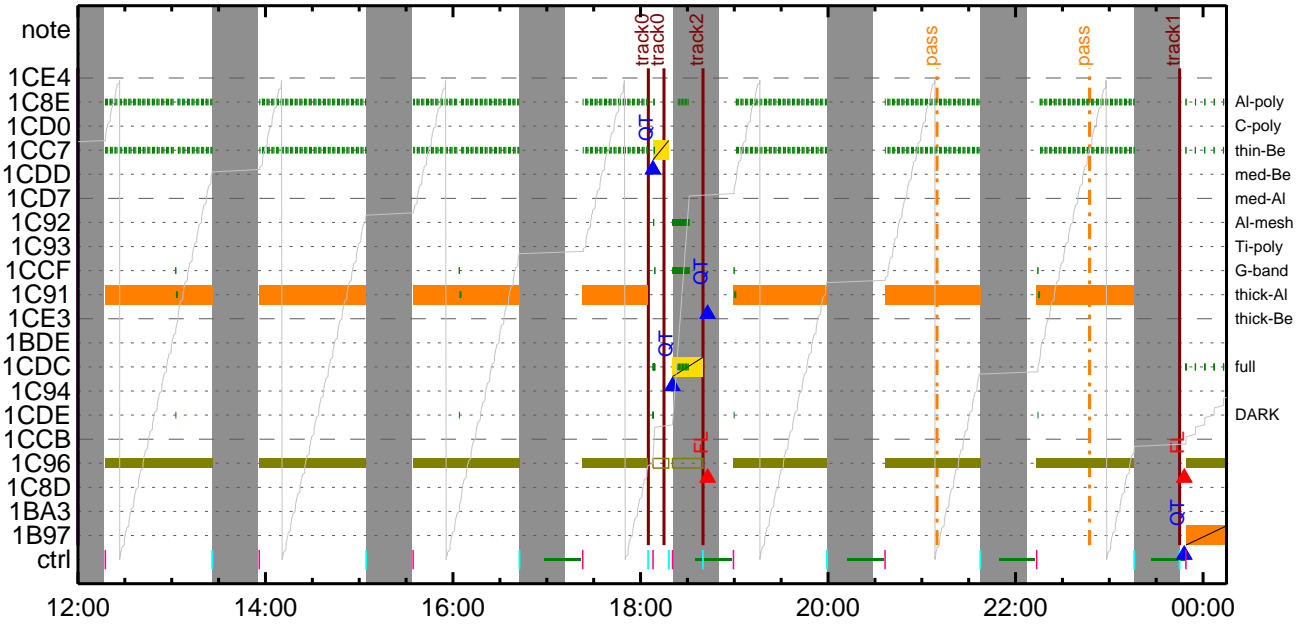
### CMDI #0453 2022/07/14



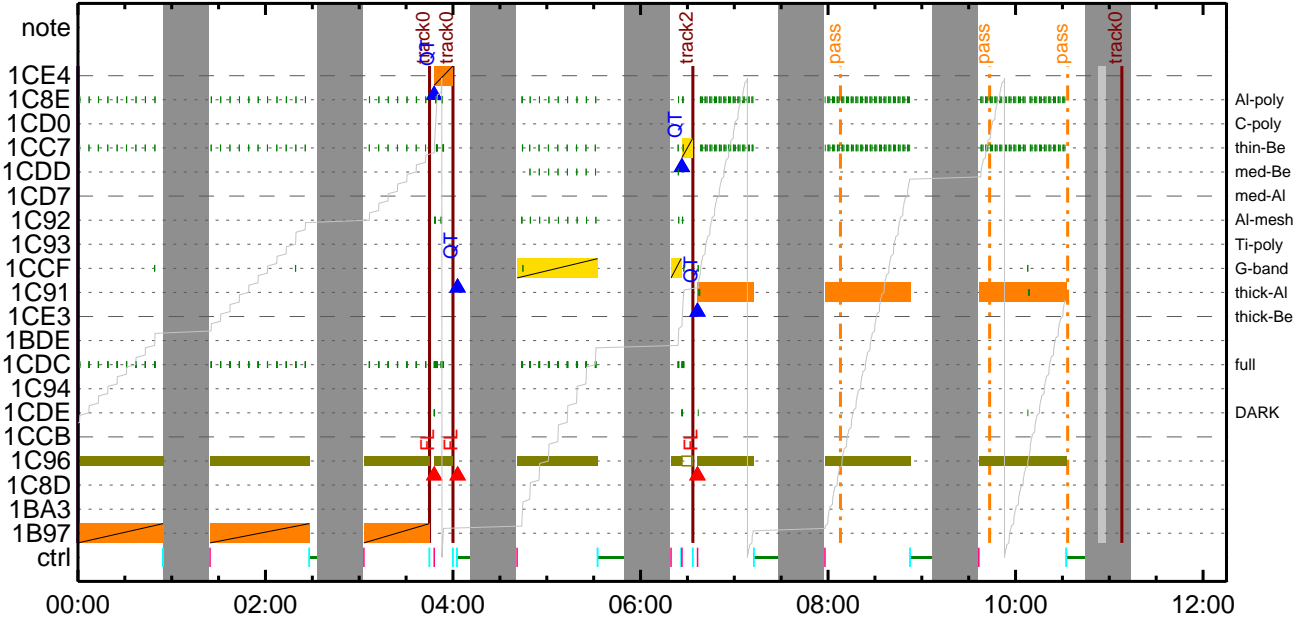
### CMDI #0453 2022/07/15



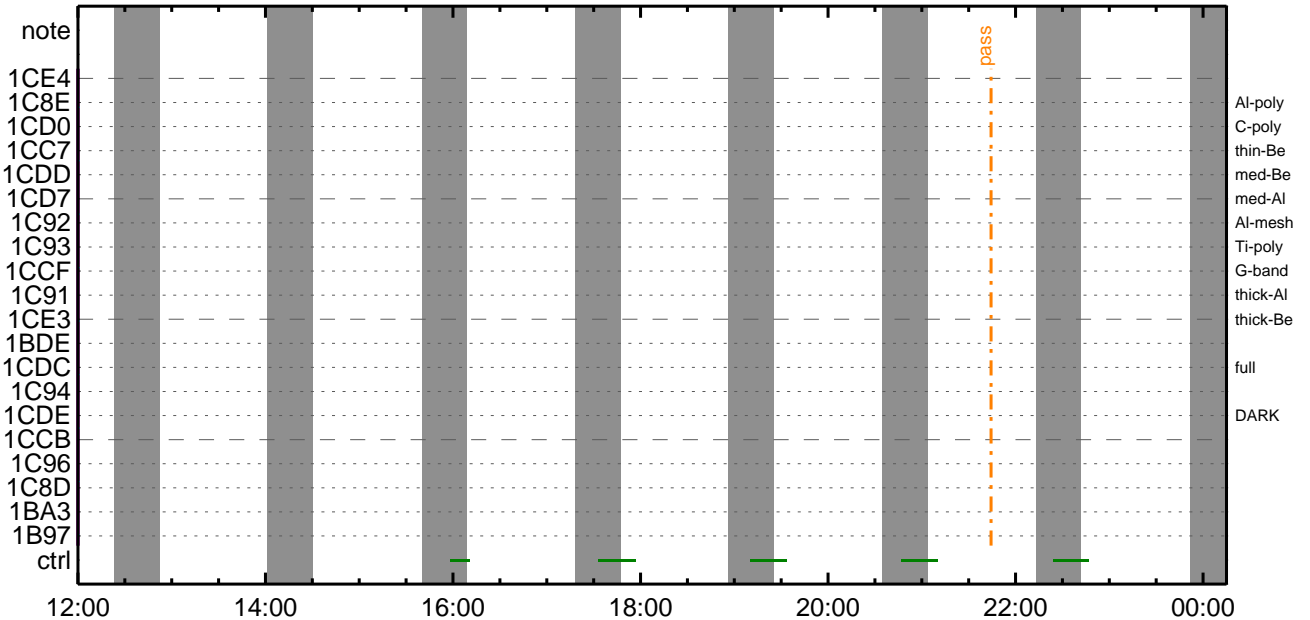
CMDI #0453 2022/07/15



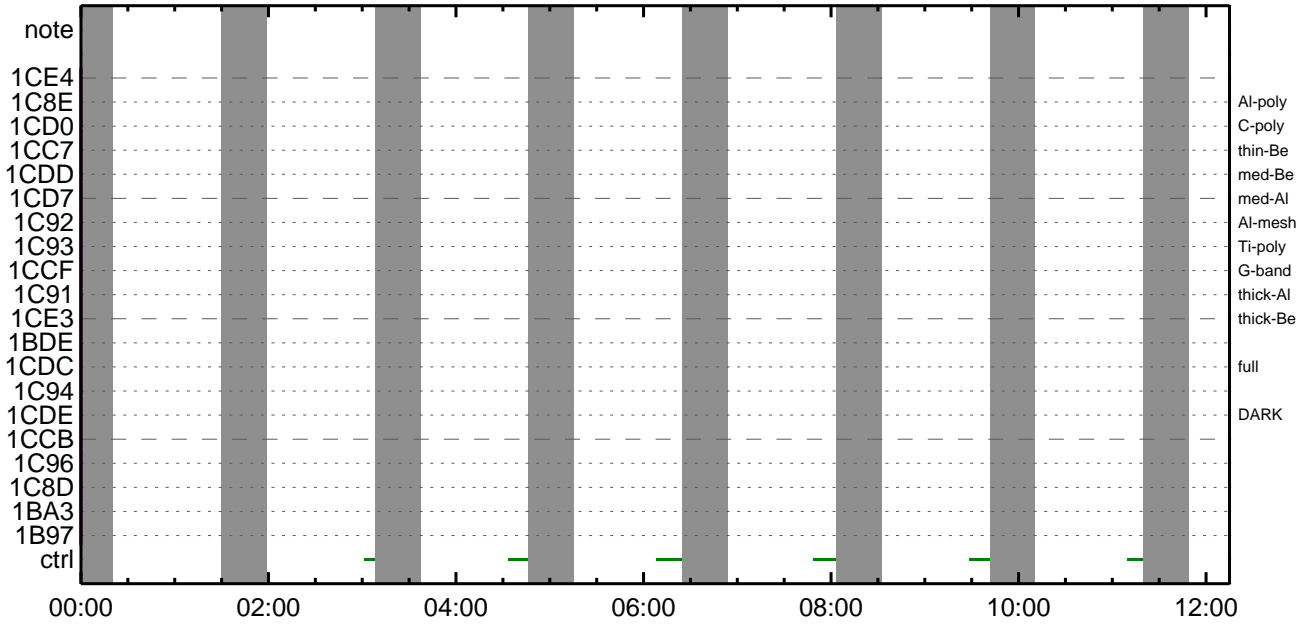
CMDI #0453 2022/07/16



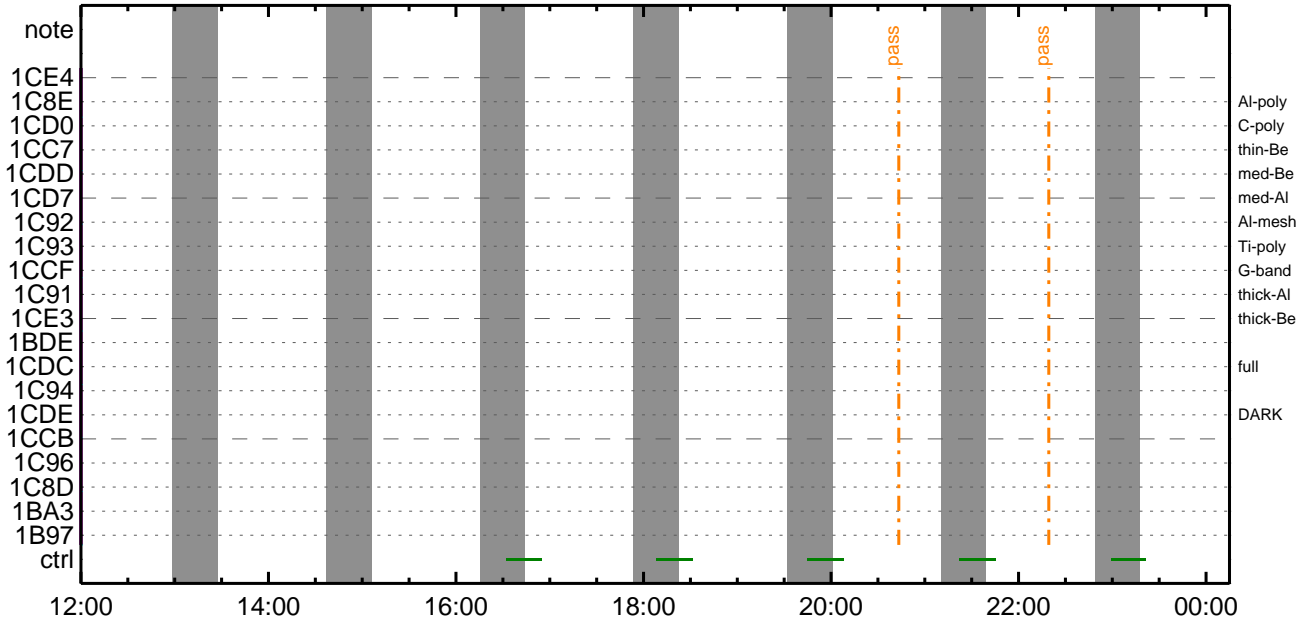
CMDI #0453 2022/07/16



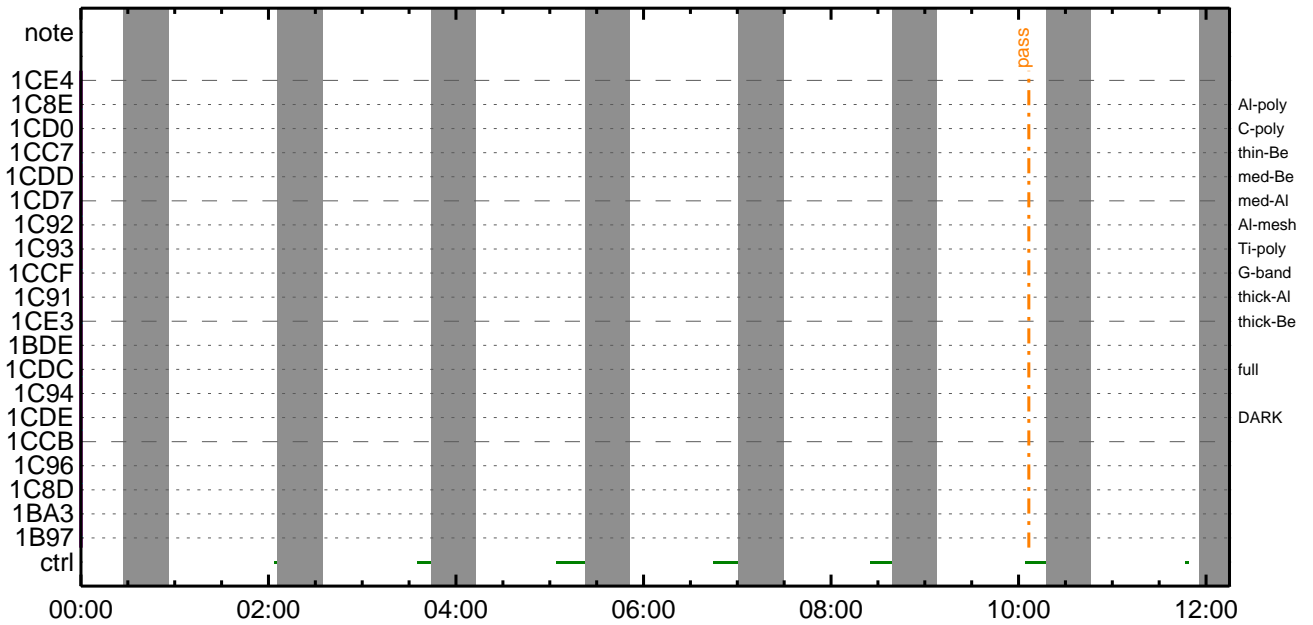
CMDI #0453 2022/07/17



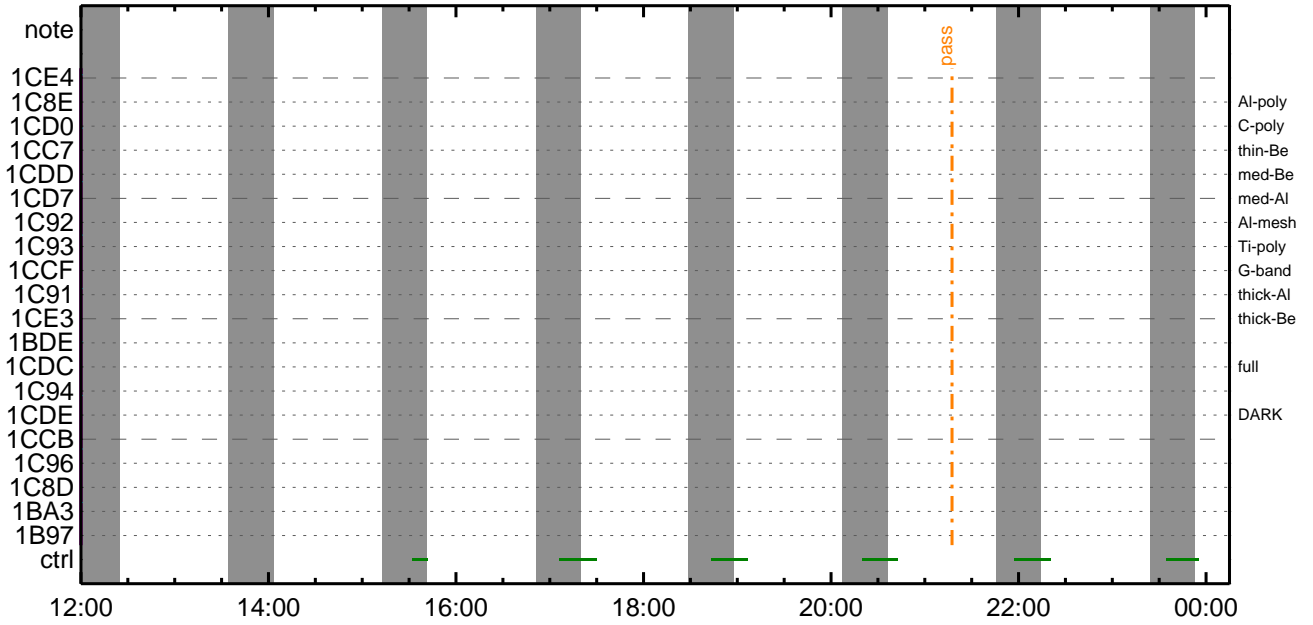
CMDI #0453 2022/07/17



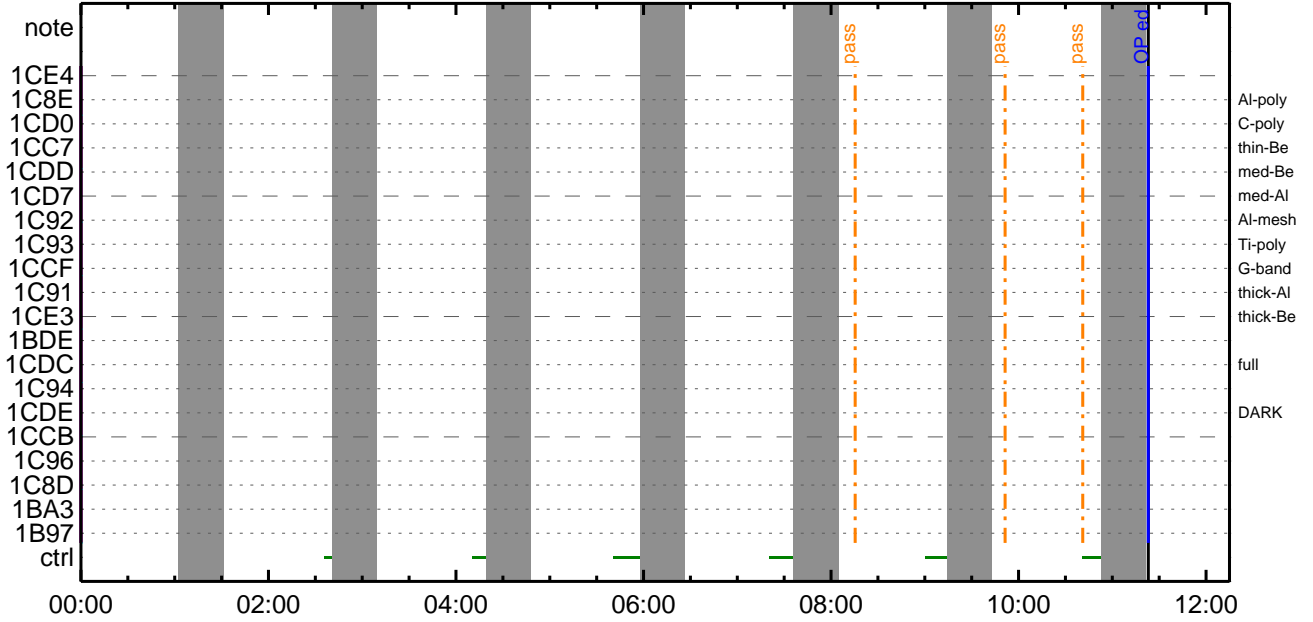
CMDI #0453 2022/07/18



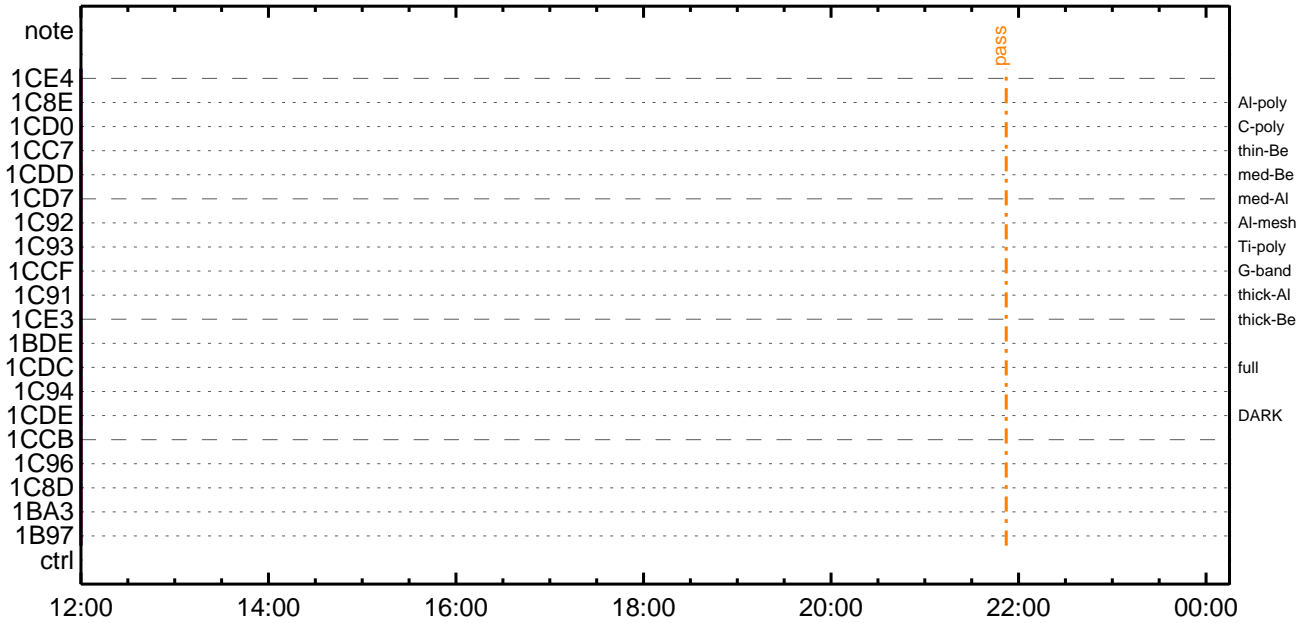
CMDI #0453 2022/07/18



CMDI #0453 2022/07/19



CMDI #0453 2022/07/19







```

0096 C.                0300; SET0EDUMP0I00iYNY10C100|030E;E
0097 C.
0098 . C. TIY3YBY6YH00dADi (UT)
0099 +. TI 2022-07-14 09:41:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0102 C.
0103 +. TI 2022-07-14 09:41:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0106 C.
0107 +. TI 2022-07-14 09:41:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0110 C.
0111 +. TI 2022-07-14 09:45:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0114 C.
0115 C. 0E2%0IAE%iIN0IYAY$YAY-1aIU
0116 C.                00[HK1_TI_CMD_ENA/DIS]                EQ        ENA
0117 C.                00[HK1_TI_CMD_NUM]                EQ        4
0118 C.                00[HK1_NEXT_EXEC_PIM]                EQ        DHU
0119 C.                00[HK1_NEXT_EXEC_DC]                EQ        0xB3
0120 C.
0121 . C. *****
0122 C. TI0I0eYAY0Yx
0123 C. *****
0124 C.
0125 C. TI_TBL(0x03AB00-0x03AEFF;$ 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC (03 ab 03 01 02)
0128 C.                00[HK1_DMP_TOP_ADRS_1]                EQ        07
0129 C.                00[HK1_DMP_TOP_ADRS_0]                EQ        2B
0130 C.                00[HK1_DMP_BLOCK_NUM]                EQ        3
0131 C.                00[HK1_DMP_REPEAT_NUM]                EQ        0
0132 C.                00[HK1_DMA_DMP_PIM]                EQ        DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC (07 0b f8)
0135 C.                00[HK1_PKT_FORM_NO]                EQ        7
0136 C.                00[HK1_PKT_GEN_TIME]                EQ        0.25 s
0137 C.                00[HK1_S_TLM_BIT_RATE]                EQ        32k
0138 C.                00[HK1_X_TLM_BIT_RATE]                EQ        4M
0139 C.                00[HK1_DMP_CHK_FLG]                EQ        EXEC
0140 C.
0141 . C. YAY0Yx%aI»0d3IC$
0142 C.                00[HK1_DMP_CHK_FLG]                EQ        NON
0143 C.
0144 . C. RAM ID=TI_TBL0I%E1C.e2IOK0d3IC$
0145 C.
0146 . C. DHUYa;Y%E;E%Y%,Yi;Y%E;E0dIa01
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC (02 0a f8)
0149 C.                00[HK1_PKT_FORM_NO]                EQ        2
0150 C.                00[HK1_PKT_GEN_TIME]                EQ        0.5S
0151 C.                00[HK1_S_TLM_BIT_RATE]                EQ        32K
0152 C.                00[HK1_X_TLM_BIT_RATE]                EQ        4M
0153 C.
0154 C. *****
0155 C. SOT TI command set
0156 C. *****
0157 C. Execute, after the success of OP upload.
0158 +. TI 2022-07-14 09:45:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC (41)
0161 . C. -----
0162 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0163 C. -----
0164 C. ***** SOT END *****
0165 . C. Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C. ***** Start EIS operation (TI set) *****
0169 C. Execute, after the success of OP upload.
0170 C. Set EIS TI-commands
0171 +. TI 2022-07-14 09:45:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2022-07-14 09:45:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC (22)
0177 . C. [ ] [HK1_TI_CMD_NUM] EQ 2 COUNTUP
0178 C. ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C. ***** XRT START *****
0183 C. Execute, after the success of OP upload.
0184 +. TI 2022-07-14 09:45:00.0
0185 DC 07-F0 MDP_XRT_MODE_STBY
0186 BC (c3)
0187 . C. [ ] [HK1_TI_CMD_NUM] EQ 1COUNTUP
0188 C.
0189 C. ***** XRT END *****
0190 . C. ===== Begin of AOCs CMD Sequence =====
0191 . C.
0192 . C. *****
0193 . C. ***** GASYC;Y%Y;Y%EA%Y%U *****

```

```

0194 . C. *****
0195 . C.
0196 . C. *****
0197 . C. MDRV OFF
0198 . C. *****
0199 . C.
0200 . C. ***** GASÿâÿËÿ¿ñî¿á MTQ¶îÆ°°i»pÃä»ß *****
0201 +. DC 02-33 AOCU_MDRV-X_OFF
0202 +. DC 02-34 AOCU_MDRV-Y_OFF
0203 +. DC 02-35 AOCU_MDRV-Z_OFF
0204 . C. [ ] <A_AOS> [COMPONENT STS] <MDRV> X = OFF ?
0205 . C. [ ] <A_AOS> [COMPONENT STS] <MDRV> Y = OFF ?
0206 . C. [ ] <A_AOS> [COMPONENT STS] <MDRV> Z = OFF ?
0207 . C.
0208 . C.
0209 . C. ¡úÿÇ;¼ÿ¿¼èÆÃñî¿á;çîõlminÃÔµ;
0210 . C.
0211 . C. *****
0212 . C. MDRV ON
0213 . C. *****
0214 . C.
0215 . C. ***** MTQ¶îÆ°°E³« *****
0216 +. DC 02-32 AOCU_MDRV_ON
0217 . C. [ ] <A_AOS> [COMPONENT STS] <MDRV> X = ON ?
0218 . C. [ ] <A_AOS> [COMPONENT STS] <MDRV> Y = ON ?
0219 . C. [ ] <A_AOS> [COMPONENT STS] <MDRV> Z = ON ?
0220 . C.
0221 . C.
0222 . C. ===== End of AOCs CMD Sequence =====
0223 . C.
0224 . C.
0225 . C. ***** MDP `ûÃîñî»ò¼ÿñèÃðñ¹ñèDCBC•x²è *****
0226 . C. (¼á°îÿóÿÃÿËÿpÿËÿãÿçÿèñE¼¼ñ¼Ã»Ûñ¹ñè)
0227 . S. DC-BC dcbc-402:DCBC
0228 (MDP_known_event)
0229 . C.
0230 . C.
0231 . C. ***** ÿDÿ¹•ï Daily±¿îññè'øñ¹ñèDCBC•x²è *****
0232 . S. DC-BC dcbc-153:DCBC
0233 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0234 . C.
0235 . C.
0236 . C. ¡ãLOSÿÃÿSÿÿÃÿ¼Ã»Û;ã
0237 . C.
0238 . C. ***** LOS *****
0239 . C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-285 2022-07-14 14:27:45 85 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YFÝÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿¿òÁò•µ°È»Í×ÁÇòÍYçYÁY×Yí;¼YÉ;ÈÈè%µ•ííÈ;ÈòÈ¼°ÇÒò•ò¿¼í¹çòÍ;çÀ®, ùò¹òèòòòÇÁ+¿®ò•òÈòòò³òÈ;f
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. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0046 +. DC 07-FC EIS_MODE_CHG_ENA
0047 BC (20)
0048 . C. Verify EIS_MODE_CHG_FLG is ENA
0049 +. DC 07-FC EIS_MODE_MANU
0050 BC (21 02)
0051 . C. Verify EIS in MANUAL mode
0052 . C. Estimated OBSTBL upload time is 8s
0053 C. *****
0054 C. EIS START OBSTBL LOAD
0055 C. *****
0056 . S. RAM ram-820:EIS_OBSTBL
0057 ( )
0058 +. DC 07-FC EIS_DUMP_OBSTBL
0059 BC (07 07 07 00 00 70 00)
0060 C.
0061 C. Execute, after the success of OBSTBL upload.
0062 C. Set EIS TI-commands
0063 +. TI 2022-07-14 09:45:50.0
0064 DC 07-FC EIS_MODE_CHG_ENA
0065 BC (20)
0066 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0067 C. *****
0068 C. EIS END OBSTBL LOAD
0069 C. *****
0070 C.
0071 . C. ***** MDP `ûÁîòí»ò¼YòÈÁò¹òèDCBC•x²è *****
0072 C. (¼á°íYÓYÁYÈYpYÈYáYçYèòÈ¼¼ò¼Á»Ûò¹òè)
0073 . S. DC-BC dcbc-402:DCBC
0074 (MDP_known_event)
0075 C.
0076 C.
0077 . C. ***** YDÿ¹.İ Daily±¿ÍÑòÈ`Øò¹òèDCBC•x²è *****
0078 . S. DC-BC dcbc-153:DCBC
0079 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0080 C.
0081 C.
0082 . C. ;ãLOSÁY$YÁY-¼Á»Û;ã
0083 C.
0084 . C. ***** LOS *****
0085 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-286 2022-07-14 14:27:45 134 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÀYB;¼Y³YFYÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;È¿¿ãÀß•µ°È»Í×ÁÇõÍYçYÁY×Yí;¼YÉ;ÈÈè%µ•ííÈ;ÈÈÈ¼°ÇÒã•¿¿¼í¹ç¿Í;çÀ®, ù¿¹¿èß¿çÁ+¿®ã•¿È¿¿¿³¿È;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop SP table >
0018 +. DC 07-F0 MDP_SP_CTRL_MANU
0019 BC (61)
0020 C. -----
0021 C. MDP_SP_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload SP Observation Table>
0025 . S. RAM ram-289:MDP_OBS_S
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_S >
0029 +. DC 07-F0 MDP_DUMP_SPTBL
0030 BC (83 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_S verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 C. *****
0036 C. SOT TI command set
0037 C. *****
0038 C. Execute, after the success of TBL upload.
0039 +. TI 2022-07-14 09:45:18.0
0040 DC 07-F0 MDP_SOT_MODE_OBSV
0041 BC (40)
0042 . C. -----
0043 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0044 C. -----
0045 C.
0046 C.
0047 C. ***** XRT START *****
0048 C.
0049 +. DC 07-F0 MDP_XRT_CTRL_MANU
0050 BC (c1)
0051 + DC 07-F0 MDP_XRT_MODE_STBY
0052 BC (c3)
0053 . C. ----- Success Verify ? OK / NG_____
0054 C.
0055 C. XRT Obs. Table Upload
0056 . S. RAM ram-291:MDP_OBS_X
0057 ( )
0058 C.
0059 +. DC 07-F0 MDP_DUMP_XRTTBL
0060 BC (84 07 00 00 00 3a d4)
0061 . C. ----- Comparison Check ? OK / ERR _____
0062 C.
0063 C.
0064 +. DC 07-F0 MDP_XRT_ROI_SET
0065 BC (cd 01 b1 b1 04 04)
0066 + DC 07-F0 MDP_XRT_ROI_SET
0067 BC (cd 02 b1 b1 08 08)
0068 + DC 07-F0 MDP_XRT_ROI_SET
0069 BC (cd 03 b1 b1 08 08)
0070 + DC 07-F0 MDP_XRT_ROI_SET
0071 BC (cd 04 b1 b1 06 06)
0072 + DC 07-F0 MDP_XRT_ROI_SET
0073 BC (cd 05 85 83 06 06)
0074 + DC 07-F0 MDP_XRT_ROI_SET
0075 BC (cd 06 85 83 06 06)
0076 + DC 07-F0 MDP_XRT_ROI_SET
0077 BC (cd 07 85 83 08 08)
0078 + DC 07-F0 MDP_XRT_ROI_SET
0079 BC (cd 08 80 80 20 20)
0080 + DC 07-F0 MDP_XRT_ROI_SET
0081 BC (cd 09 80 80 20 08)
0082 + DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 0a 80 80 08 20)
0084 + DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 0b 80 80 06 06)
0086 + DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 0c 80 80 08 08)
0088 + DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 0f 80 80 06 06)
0090 + DC 07-F0 MDP_XRT_ROI_SET
0091 BC (cd 10 80 80 08 08)
0092 + DC 07-F0 MDP_XRT_FLD_ENA
0093 BC (d8)
0094 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0095 BC (c8)
```

```
0096 + DC 07-F0 MDP_XRT_ARS_DIS
0097 BC (d5)
0098 + DC 07-F0 MDP_XRT_AEC_RESET
0099 BC (d0)
0100 + DC 07-F0 MDP_XRT_FLD_RESET
0101 BC (da)
0102 + DC 07-F0 MDP_XRT_QT_PROG_SET
0103 BC (c4 0f)
0104 + DC 07-F0 MDP_XRT_FL_PROG_SET
0105 BC (c5 04)
0106 . C. ----- Success Verify ? OK / NG ____
0107 C.
0108 C.
0109 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0110 C.
0111 + DC 07-F0 MDP_XRT_MODE_OBSV
0112 BC (c2)
0113 + TI 2022-07-14 09:45:02.0
0114 DC 07-F0 MDP_XRT_MODE_OBSV
0115 BC (c2)
0116 . C. ----- Success Verify ? OK / NG ____
0117 C.
0118 C. ***** XRT END *****
0119 C.
0120 . C. ***** MDP `úÃîñî»ò%ÝñÊÃðñ¹ñèDCBC•x²è *****
0121 C. (%á°îÿÓÿÃÿÈÿËÿËÿáÿçÿèñÊ½¼ñ¼Ã»Ûñ¹ñè)
0122 . S. DC-BC dcbc-402:DCBC
0123 (MDP_known_event)
0124 C.
0125 C.
0126 . C. ***** ÿDÿ¹•Ï Daily±¿îññÊ´Øñ¹ñèDCBC•x²è *****
0127 . S. DC-BC dcbc-153:DCBC
0128 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0129 C.
0130 C.
0131 . C. ¡ãLOSÿÁÿ§ÿÃÿ-¼Ã»Ûñ¹ñè
0132 C.
0133 . C. ***** LOS *****
0134 C.
```

\*\*\* OP Sequence for XRT \*\*\*

|            |            |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|
| 2022/07/14 | 09:55:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 09:55:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 09:55:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2022/07/14 | 09:56:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 06 4d 01 68 |  |  |
| 2022/07/14 | 09:56:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2022/07/14 | 09:56:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2022/07/14 | 09:56:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2022/07/14 | 09:56:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2022/07/14 | 09:56:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2022/07/14 | 09:58:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0b          |  |  |
| 2022/07/14 | 09:58:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |
| 2022/07/14 | 10:03:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2022/07/14 | 10:04:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/14 | 11:01:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 11:01:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 11:01:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2022/07/14 | 11:01:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2022/07/14 | 11:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2022/07/14 | 11:41:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2022/07/14 | 11:42:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/14 | 12:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 12:50:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 12:50:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2022/07/14 | 12:50:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2022/07/14 | 12:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2022/07/14 | 13:19:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2022/07/14 | 13:20:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/14 | 14:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 14:29:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 14:29:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2022/07/14 | 14:29:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2022/07/14 | 14:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2022/07/14 | 14:58:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2022/07/14 | 14:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/14 | 16:07:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 16:07:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 16:07:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2022/07/14 | 16:07:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2022/07/14 | 16:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2022/07/14 | 16:47:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2022/07/14 | 16:48:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/14 | 17:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 17:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/14 | 17:29:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2022/07/14 | 17:30:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2022/07/14 | 17:30:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |
| 2022/07/14 | 17:30:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |
| 2022/07/14 | 17:30:22.0 | XRT_ARS_DIS_442_OG [0x1ba]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |

|            |            |                                   |   |       |          |          |  |
|------------|------------|-----------------------------------|---|-------|----------|----------|--|
| 2022/07/14 | 17:32:58.0 | XRT_QT_PROG_SET_433_OG [0x1b1]    |   |       |          |          |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4       | 11       |  |
| 2022/07/14 | 17:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0       |          |  |
| 2022/07/14 | 17:40:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |          |          |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 | af 1b    |  |
| 2022/07/14 | 17:42:30.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 17:42:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 17:42:34.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |          |          |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff    | aa 00    |  |
| 2022/07/14 | 17:42:54.0 | XRT_FLD_DIS_432_OG [0x1b0]        |   |       |          |          |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9       |          |  |
| 2022/07/14 | 17:44:54.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |          |          |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9       |          |  |
| 2022/07/14 | 17:44:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |          |          |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5       |          |  |
| 2022/07/14 | 17:44:58.0 | XRT_QT_PROG_SET_428_OG [0x1ac]    |   |       |          |          |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4       | 08       |  |
| 2022/07/14 | 17:45:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0       |          |  |
| 2022/07/14 | 18:04:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 18:04:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 18:04:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |          |          |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe    | 97 00    |  |
| 2022/07/14 | 18:05:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |          |          |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 06    | 4d 01 68 |  |
| 2022/07/14 | 18:05:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |          |          |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8       |          |  |
| 2022/07/14 | 18:05:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |          |          |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8       |          |  |
| 2022/07/14 | 18:05:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |          |          |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0       |          |  |
| 2022/07/14 | 18:05:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |          |          |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5       |          |  |
| 2022/07/14 | 18:05:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |          |          |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da       |          |  |
| 2022/07/14 | 18:07:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |          |          |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4       | 0b       |  |
| 2022/07/14 | 18:07:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |          |          |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5       | 04       |  |
| 2022/07/14 | 18:24:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |          |          |  |
| 2022/07/14 | 18:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0       |          |  |
| 2022/07/14 | 19:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 19:24:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 19:24:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |          |          |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da       |          |  |
| 2022/07/14 | 19:24:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |          |          |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8       |          |  |
| 2022/07/14 | 19:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |          |          |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9       |          |  |
| 2022/07/14 | 20:00:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |          |          |  |
| 2022/07/14 | 20:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0       |          |  |
| 2022/07/14 | 21:02:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 21:02:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 21:02:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |          |          |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da       |          |  |
| 2022/07/14 | 21:02:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |          |          |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8       |          |  |
| 2022/07/14 | 21:05:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |          |          |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9       |          |  |
| 2022/07/14 | 21:38:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |          |          |  |
| 2022/07/14 | 21:39:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0       |          |  |
| 2022/07/14 | 22:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 22:40:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/14 | 22:40:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |          |          |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da       |          |  |
| 2022/07/14 | 22:40:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |          |          |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8       |          |  |
| 2022/07/14 | 22:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |          |          |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9       |          |  |
| 2022/07/14 | 23:14:00.5 | XRT_Custom_430_OG [0x1ae]         |   |       |          |          |  |
| 2022/07/14 | 23:15:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0       |          |  |
| 2022/07/15 | 00:19:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/15 | 00:19:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |          |          |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1       |          |  |
| 2022/07/15 | 00:19:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |          |          |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da       |          |  |
| 2022/07/15 | 00:19:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |          |          |  |

|            |            |                                   |                     |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|--|--|
| 2022/07/15 | 00:22:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2022/07/15 | 00:48:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2022/07/15 | 00:49:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2022/07/15 | 01:57:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 01:57:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 01:57:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2022/07/15 | 01:57:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2022/07/15 | 02:00:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2022/07/15 | 02:26:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2022/07/15 | 02:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2022/07/15 | 03:27:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 03:27:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 03:27:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2022/07/15 | 03:27:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2022/07/15 | 03:30:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2022/07/15 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |                     |   |       |                |  |  |  |  |
|            |            |                                   | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2022/07/15 | 04:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |                     |   |       |                |  |  |  |  |
|            |            |                                   | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2022/07/15 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |
| 2022/07/15 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |  |
| 2022/07/15 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |  |  |
| 2022/07/15 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2022/07/15 | 04:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2022/07/15 | 04:02:56.0 | XRT_QT_PROG_SET_431_OG [0x1af]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0c          |  |  |  |  |
| 2022/07/15 | 04:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2022/07/15 | 04:05:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2022/07/15 | 04:06:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2022/07/15 | 04:56:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 04:56:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 04:56:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2022/07/15 | 04:56:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2022/07/15 | 04:59:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2022/07/15 | 05:43:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2022/07/15 | 05:44:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2022/07/15 | 05:56:00.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 05:56:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 05:56:04.0 | XRT_FOCUS_POSITION_406_OG [0x196] |                     |   |       |                |  |  |  |  |
|            |            |                                   | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2022/07/15 | 05:56:24.0 | XRT_FLD_DIS_409_OG [0x199]        |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |  |  |  |
| 2022/07/15 | 05:56:26.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |  |  |  |
| 2022/07/15 | 05:56:28.0 | XRT_ARS_DIS_423_OG [0x1a7]        |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2022/07/15 | 05:56:30.0 | XRT_QT_PROG_SET_433_OG [0x1b1]    |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |  |  |  |  |
| 2022/07/15 | 05:56:32.0 | XRT_CTRL_AUTO_408_OG [0x198]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2022/07/15 | 06:03:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 06:03:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2022/07/15 | 06:03:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |                     |   |       |                |  |  |  |  |
|            |            |                                   | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2022/07/15 | 06:04:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |                     |   |       |                |  |  |  |  |
|            |            |                                   | AOCU_NM             | 5 | 02-76 | 02 06 4d 01 68 |  |  |  |  |
| 2022/07/15 | 06:04:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |                     |   |       |                |  |  |  |  |
|            |            |                                   | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |



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|            |            |                                |   |       |       |
|------------|------------|--------------------------------|---|-------|-------|
| 2022/07/15 | 06:04:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] |   |       |       |
|            |            | MDP_XRT_FLRCTRL_ENA            | 1 | 07-F0 | c8    |
| 2022/07/15 | 06:04:22.0 | XRT_AEC_RESET_448_OG [0x1c0]   |   |       |       |
|            |            | MDP_XRT_AEC_RESET              | 1 | 07-F0 | d0    |
| 2022/07/15 | 06:04:24.0 | XRT_ARS_DIS_423_OG [0x1a7]     |   |       |       |
|            |            | MDP_XRT_ARS_DIS                | 1 | 07-F0 | d5    |
| 2022/07/15 | 06:04:26.0 | XRT_FLD_RESET_434_OG [0x1b2]   |   |       |       |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da    |
| 2022/07/15 | 06:06:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] |   |       |       |
|            |            | MDP_XRT_QT_PROG_SET            | 2 | 07-F0 | c4 0b |
| 2022/07/15 | 06:06:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2] |   |       |       |
|            |            | MDP_XRT_FL_PROG_SET            | 2 | 07-F0 | c5 04 |
| 2022/07/15 | 06:07:00.0 | XRT_CTRL_AUTO_408_OG [0x198]   |   |       |       |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0    |
| 2022/07/15 | 06:36:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 06:36:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 06:36:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |       |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da    |
| 2022/07/15 | 06:36:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4] |   |       |       |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8    |
| 2022/07/15 | 06:39:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |       |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9    |
| 2022/07/15 | 07:21:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |       |
| 2022/07/15 | 07:22:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |       |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0    |
| 2022/07/15 | 08:16:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 08:16:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 08:16:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |       |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da    |
| 2022/07/15 | 08:16:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4] |   |       |       |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8    |
| 2022/07/15 | 08:19:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |       |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9    |
| 2022/07/15 | 09:00:00.0 | XRT_Custom_430_OG [0x1ae]      |   |       |       |
| 2022/07/15 | 09:01:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |       |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0    |
| 2022/07/15 | 09:56:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 09:56:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 09:56:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |       |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da    |
| 2022/07/15 | 09:56:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4] |   |       |       |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8    |
| 2022/07/15 | 09:59:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |       |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9    |
| 2022/07/15 | 10:38:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |       |
| 2022/07/15 | 10:39:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |       |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0    |
| 2022/07/15 | 11:38:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 11:38:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 11:38:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |       |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da    |
| 2022/07/15 | 11:38:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4] |   |       |       |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8    |
| 2022/07/15 | 11:41:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |       |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9    |
| 2022/07/15 | 12:16:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |       |
| 2022/07/15 | 12:17:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |       |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0    |
| 2022/07/15 | 13:26:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 13:26:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 13:26:04.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |       |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da    |
| 2022/07/15 | 13:26:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4] |   |       |       |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8    |
| 2022/07/15 | 13:29:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |       |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9    |
| 2022/07/15 | 13:55:00.0 | XRT_Custom_430_OG [0x1ae]      |   |       |       |
| 2022/07/15 | 13:56:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |       |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0    |
| 2022/07/15 | 15:04:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 15:04:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |       |       |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1    |
| 2022/07/15 | 15:04:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |       |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da    |
| 2022/07/15 | 15:04:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4] |   |       |       |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8    |
| 2022/07/15 | 15:07:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |       |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9    |
| 2022/07/15 | 15:33:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |       |
| 2022/07/15 | 15:34:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |       |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0    |
| 2022/07/15 | 16:42:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |       |

|            |            |                                   |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|-----------------------------------|---|-------|----------------|--|--|
| 2022/07/15 | 16:42:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 16:42:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 16:42:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2022/07/15 | 16:45:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2022/07/15 | 17:22:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2022/07/15 | 17:23:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2022/07/15 | 18:04:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
| 2022/07/15 | 18:04:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/15 | 18:04:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 18:05:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2022/07/15 | 18:05:18.0 | XRT_FLD_DIS_409_OG [0x199]        | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |
| 2022/07/15 | 18:05:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2022/07/15 | 18:05:22.0 | XRT_ARS_DIS_442_OG [0x1ba]        | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |
| 2022/07/15 | 18:07:58.0 | XRT_QT_PROG_SET_433_OG [0x1b1]    | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |
| 2022/07/15 | 18:08:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2022/07/15 | 18:15:00.0 | AOCS_Ore-point_Start_5_OG [0x09b] | XRT_QT_PROG_SET_433_OG [0x1b1]    |   |       |                |  |  |
| 2022/07/15 | 18:18:00.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |
| 2022/07/15 | 18:18:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
| 2022/07/15 | 18:18:04.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/15 | 18:18:24.0 | XRT_FLD_DIS_432_OG [0x1b0]        | AOCS_Ore-point_Start_5_OG [0x09b] |   |       |                |  |  |
| 2022/07/15 | 18:20:24.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | AOCU_NM                           | 5 | 02-76 | 00 00 00 53 8d |  |  |
| 2022/07/15 | 18:20:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 18:20:28.0 | XRT_QT_PROG_SET_428_OG [0x1ac]    | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 18:20:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2022/07/15 | 18:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | XRT_FLD_DIS_432_OG [0x1b0]        |   |       |                |  |  |
| 2022/07/15 | 18:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |
| 2022/07/15 | 18:39:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |
| 2022/07/15 | 18:40:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2022/07/15 | 18:40:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | XRT_QT_PROG_SET_428_OG [0x1ac]    |   |       |                |  |  |
| 2022/07/15 | 18:40:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 08          |  |  |
| 2022/07/15 | 18:40:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
| 2022/07/15 | 18:40:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2022/07/15 | 18:40:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 18:42:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 18:42:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2022/07/15 | 18:58:30.0 | XRT_Custom_430_OG [0x1ae]         | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |                |  |  |
| 2022/07/15 | 18:59:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | AOCU_NM                           | 5 | 02-76 | 02 06 4d 01 68 |  |  |
| 2022/07/15 | 19:59:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2022/07/15 | 19:59:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2022/07/15 | 19:59:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2022/07/15 | 19:59:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2022/07/15 | 20:02:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2022/07/15 | 20:35:30.0 | XRT_Custom_430_OG [0x1ae]         | XRT_PREFLR_STRT_436_OG [0x1b4]    |   |       |                |  |  |
| 2022/07/15 | 20:36:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2022/07/15 | 21:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2022/07/15 | 21:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2022/07/15 | 21:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
| 2022/07/15 | 21:37:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |

|            |            |                                   |                     |   |       |                |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|
| 2022/07/15 | 21:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2022/07/15 | 22:12:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2022/07/15 | 22:13:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2022/07/15 | 23:16:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 23:16:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 23:16:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2022/07/15 | 23:16:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2022/07/15 | 23:19:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2022/07/15 | 23:44:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 23:44:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/15 | 23:44:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |                     |   |       |                |  |  |
|            |            |                                   | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2022/07/15 | 23:45:00.0 | AOCS_OrE-point_Start_6_OG [0x09c] |                     |   |       |                |  |  |
|            |            |                                   | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |  |  |
| 2022/07/15 | 23:45:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2022/07/15 | 23:45:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |
| 2022/07/15 | 23:45:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |
| 2022/07/15 | 23:45:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2022/07/15 | 23:45:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2022/07/15 | 23:47:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 01          |  |  |
| 2022/07/15 | 23:47:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |
| 2022/07/15 | 23:48:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2022/07/15 | 23:49:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2022/07/16 | 00:54:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/16 | 00:54:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/16 | 00:54:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2022/07/16 | 00:54:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2022/07/16 | 00:57:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2022/07/16 | 01:23:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2022/07/16 | 01:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2022/07/16 | 02:28:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/16 | 02:28:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/16 | 02:28:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2022/07/16 | 02:28:06.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2022/07/16 | 02:31:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2022/07/16 | 03:02:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |
| 2022/07/16 | 03:03:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2022/07/16 | 03:44:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/16 | 03:44:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2022/07/16 | 03:44:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |                     |   |       |                |  |  |
|            |            |                                   | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2022/07/16 | 03:45:00.0 | AOCS_OrE-point_Start_7_OG [0x09d] |                     |   |       |                |  |  |
|            |            |                                   | AOCU_NM             | 5 | 02-76 | 00 d0 e6 2f 1a |  |  |
| 2022/07/16 | 03:45:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2022/07/16 | 03:45:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |
| 2022/07/16 | 03:45:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |
| 2022/07/16 | 03:45:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2022/07/16 | 03:45:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2022/07/16 | 03:47:56.0 | XRT_QT_PROG_SET_441_OG [0x1b9]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14          |  |  |
| 2022/07/16 | 03:47:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |
| 2022/07/16 | 03:48:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2022/07/16 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |

|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2022/07/16 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2022/07/16 | 04:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098]<br>AOCU_NM            | 5 | 02-76 | 00 00 00 00 00 |
| 2022/07/16 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2022/07/16 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2022/07/16 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2022/07/16 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2022/07/16 | 04:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2022/07/16 | 04:02:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 04:02:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 04:02:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2022/07/16 | 04:02:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2022/07/16 | 04:02:56.0 | XRT_QT_PROG_SET_431_OG [0x1af]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 0c          |
| 2022/07/16 | 04:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 04          |
| 2022/07/16 | 04:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2022/07/16 | 04:40:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2022/07/16 | 04:41:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2022/07/16 | 05:32:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 05:32:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 05:32:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2022/07/16 | 05:32:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2022/07/16 | 05:35:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2022/07/16 | 06:18:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2022/07/16 | 06:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2022/07/16 | 06:26:00.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 06:26:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 06:26:04.0 | XRT_FOCUS_POSITION_406_OG [0x196]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2022/07/16 | 06:26:24.0 | XRT_FLD_DIS_409_OG [0x199]<br>MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2022/07/16 | 06:26:26.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]<br>MDP_XRT_FLRCTRL_DIS   | 1 | 07-F0 | c9             |
| 2022/07/16 | 06:26:28.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2022/07/16 | 06:26:30.0 | XRT_QT_PROG_SET_433_OG [0x1b1]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 11          |
| 2022/07/16 | 06:26:32.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2022/07/16 | 06:33:24.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 06:33:26.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 06:33:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2022/07/16 | 06:33:30.0 | AOCS_ORe-point_Start_4_OG [0x09a]<br>AOCU_NM            | 5 | 02-76 | 02 06 4d 01 68 |
| 2022/07/16 | 06:33:48.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2022/07/16 | 06:33:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2022/07/16 | 06:33:52.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2022/07/16 | 06:33:54.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2022/07/16 | 06:33:56.0 | XRT_FLD_RESET_434_OG [0x1b2]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2022/07/16 | 06:36:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 0b          |
| 2022/07/16 | 06:36:28.0 | XRT_FL_PROG_SET_418_OG [0x1a2]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 04          |
| 2022/07/16 | 06:36:30.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2022/07/16 | 07:12:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 07:12:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2022/07/16 | 07:12:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2022/07/16 | 07:12:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]                          |   |       |                |

|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2022/07/16 | 07:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2022/07/16 | 07:57:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2022/07/16 | 07:58:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2022/07/16 | 08:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2022/07/16 | 08:52:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2022/07/16 | 08:52:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2022/07/16 | 08:52:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2022/07/16 | 08:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2022/07/16 | 09:35:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2022/07/16 | 09:36:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2022/07/16 | 10:32:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2022/07/16 | 10:32:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2022/07/16 | 10:32:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2022/07/16 | 10:32:36.0 | XRT_PREFLR_STRT_436_OG [0x1b4]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2022/07/16 | 10:35:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2022/07/16 | 11:08:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |