

# XRT Timeline to be uploaded on 2026/09/03

Period: 2026/09/03 11:21:00 - 2026/09/08 10:43:00

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## Normal mode

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| XOB #1D1F: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with |  |                |                                         |          |      |       |       |                              |     |                      |  |       |            |          |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|-----------------------------------------|----------|------|-------|-------|------------------------------|-----|----------------------|--|-------|------------|----------|---------|
| Term                                                                                                                                                        |  |                | Pointing (x, y)                         |          |      |       |       | Comment                      |     |                      |  |       |            |          |         |
| 09/03 11:34:00 - 09/03 18:02:24                                                                                                                             |  |                | Track ( 567.4, -339.0) @ 09/03 11:31:00 |          |      |       |       | # OP start + 10min + AR14520 |     |                      |  |       |            |          |         |
| 09/03 18:15:30 - 09/04 03:59:54                                                                                                                             |  |                | Track ( 612.4, -334.1) @ 09/03 18:12:30 |          |      |       |       | AR14520                      |     |                      |  |       |            |          |         |
| 09/04 05:43:30 - 09/04 17:55:00                                                                                                                             |  |                | Track ( 683.4, -324.7) @ 09/04 05:40:30 |          |      |       |       | AR14520                      |     |                      |  |       |            |          |         |
| PROG= 09 Inf.-time(s)                                                                                                                                       |  |                |                                         |          |      |       |       |                              |     |                      |  |       |            |          |         |
| Subr= 1                                                                                                                                                     |  | 1-time(s)      |                                         | 2.0sec   |      |       |       |                              |     |                      |  |       |            |          |         |
| Seqn= 92                                                                                                                                                    |  | 1-time(s)      |                                         | 2.0sec   |      |       |       |                              |     |                      |  |       |            |          |         |
| Open/G-band                                                                                                                                                 |  | Open/G-band    |                                         | open     | Safe | Norm  | 1ms   | Obs                          | 1x1 | 384x384 (1064, 1048) |  | DPCM  | 0          | 0        | 2.0sec  |
| Open/G-band                                                                                                                                                 |  | Open/G-band    |                                         | close    | Safe | Norm  | 1ms   | Obs                          | 1x1 | 384x384 (1064, 1048) |  | DPCM  | 0          | 0        | 2.0sec  |
| Open/Ti-poly                                                                                                                                                |  | Open/thick-Al  |                                         | close    | Safe | Dark  | 16.0s | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=98  | 0          | 0        | 2.0sec  |
| Subr= 2                                                                                                                                                     |  | 4-time(s)      |                                         | 2.0sec   |      |       |       |                              |     |                      |  |       |            |          |         |
| Seqn= 47                                                                                                                                                    |  | 1-time(s)      |                                         | 2.0sec   |      |       |       |                              |     |                      |  |       |            |          |         |
| Al-poly/Open                                                                                                                                                |  | thin-Be/Open   |                                         | close    | Safe | Norm  | 250ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 2          | 0        | 2.0sec  |
| Al-poly/Open                                                                                                                                                |  | thin-Be/Open   |                                         | close    | Safe | Norm  | 250ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 3          | 0        | 2.0sec  |
| thin-Be/Open                                                                                                                                                |  | med-Be/Open    |                                         | close    | Safe | Norm  | 500ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 2          | 0        | 2.0sec  |
| thin-Be/Open                                                                                                                                                |  | med-Be/Open    |                                         | close    | Safe | Norm  | 500ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 3          | 0        | 2.0sec  |
| Seqn= 77                                                                                                                                                    |  | 4-time(s)      |                                         | 600.0sec |      |       |       |                              |     |                      |  |       |            |          |         |
| Al-poly/Open                                                                                                                                                |  | thin-Be/Open   |                                         | close    | Safe | Norm  | 250ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1          | 0        | 2.0sec  |
| thin-Be/Open                                                                                                                                                |  | med-Be/Open    |                                         | close    | Safe | Norm  | 500ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1          | 0        | 95.0sec |
| Al-poly/Open                                                                                                                                                |  | thin-Be/Open   |                                         | close    | Safe | Norm  | 250ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1          | 1        | 2.0sec  |
| thin-Be/Open                                                                                                                                                |  | med-Be/Open    |                                         | close    | Safe | Norm  | 500ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1          | 1        | 95.0sec |
| Al-poly/Open                                                                                                                                                |  | thin-Be/Open   |                                         | close    | Safe | Norm  | 250ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1          | 2        | 2.0sec  |
| thin-Be/Open                                                                                                                                                |  | med-Be/Open    |                                         | close    | Safe | Norm  | 500ms | Obs                          | 1x1 | 384x384 (1064, 1048) |  | Q=95  | 1          | 2        | 2.0sec  |
| Default Filter                                                                                                                                              |  | Thicker Filter |                                         | VLS      | mode | image | Exp.  | CCD                          | Bin | ROI: size (center)   |  | Comp. | AEC Buffer | Interval |         |

| XOB #1D2F: Synoptic 8 Filter w/ Al-mesh(5/181/1443), Al-poly(12/256/2048), Thin-Be(45/1024/8192), Thick-Be(65536), Med-Al(256/8192/32768), Med-Be(128/512/4096) |  |                  |                   |        |      |                                      |       |     |     |                        |  |       |            |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|-------------------|--------|------|--------------------------------------|-------|-----|-----|------------------------|--|-------|------------|----------|
| Term                                                                                                                                                            |  |                  | Pointing (x, y)   |        |      | Comment                              |       |     |     |                        |  |       |            |          |
| 09/03 18:05:30 - 09/03 18:12:24                                                                                                                                 |  |                  | Fixed ( 0.0, 0.0) |        |      | synoptic, shifted 2.5 min            |       |     |     |                        |  |       |            |          |
| 09/04 05:33:30 - 09/04 05:40:24                                                                                                                                 |  |                  | Fixed ( 0.0, 0.0) |        |      | HOP349 + synoptic, shifted -29.5 min |       |     |     |                        |  |       |            |          |
| 09/04 18:22:00 - 09/04 18:28:54                                                                                                                                 |  |                  | Fixed ( 0.0, 0.0) |        |      | synoptic, shifted 19.0 min           |       |     |     |                        |  |       |            |          |
| 09/05 06:04:00 - 09/05 06:10:54                                                                                                                                 |  |                  | Fixed ( 0.0, 0.0) |        |      | HOP349 + synoptic, shifted 1.0 min   |       |     |     |                        |  |       |            |          |
| PROG= 17 1-time(s)                                                                                                                                              |  |                  |                   |        |      |                                      |       |     |     |                        |  |       |            |          |
| Subr= 1                                                                                                                                                         |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Seqn= 5                                                                                                                                                         |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Open/Ti-poly                                                                                                                                                    |  | Open/thick-Al    |                   | close  | Safe | Dark                                 | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 2.0sec   |
| Open/Ti-poly                                                                                                                                                    |  | Open/thick-Al    |                   | close  | Safe | Dark                                 | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 2.0sec   |
| Open/Ti-poly                                                                                                                                                    |  | Open/thick-Al    |                   | close  | Safe | Dark                                 | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 2.0sec   |
| Open/Ti-poly                                                                                                                                                    |  | Open/thick-Al    |                   | close  | Safe | Dark                                 | 500ms | Obs | 1x1 | 2048x512 (1024, 1024)  |  | DPCM  | 0          | 2.0sec   |
| Open/Ti-poly                                                                                                                                                    |  | Open/thick-Al    |                   | close  | Safe | Dark                                 | 500ms | Obs | 1x1 | 512x2048 (1024, 1024)  |  | DPCM  | 0          | 2.0sec   |
| Seqn= 66                                                                                                                                                        |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Open/Al-mesh                                                                                                                                                    |  | Open/Al-mesh     |                   | close  | Safe | Norm                                 | 5ms   | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Open/Al-mesh                                                                                                                                                    |  | Open/Al-mesh     |                   | close  | Safe | Norm                                 | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Open/Al-mesh                                                                                                                                                    |  | Open/Ti-poly     |                   | close  | Safe | Norm                                 | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Seqn= 22                                                                                                                                                        |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Al-poly/Open                                                                                                                                                    |  | Al-poly/Open     |                   | close  | Safe | Norm                                 | 12ms  | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Al-poly/Open                                                                                                                                                    |  | Al-poly/Open     |                   | close  | Safe | Norm                                 | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Al-poly/Open                                                                                                                                                    |  | Al-poly/thick-Al |                   | close  | Safe | Norm                                 | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Seqn= 19                                                                                                                                                        |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| thin-Be/Open                                                                                                                                                    |  | thin-Be/Open     |                   | close  | Safe | Norm                                 | 44ms  | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| thin-Be/Open                                                                                                                                                    |  | thin-Be/Open     |                   | close  | Safe | Norm                                 | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| thin-Be/Open                                                                                                                                                    |  | thin-Be/Open     |                   | close  | Safe | Norm                                 | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Seqn= 23                                                                                                                                                        |  | 1-time(s)        |                   | 4.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Open/G-band                                                                                                                                                     |  | Open/G-band      |                   | open   | Safe | Norm                                 | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) |  | Q=90  | 0          | 2.0sec   |
| Open/G-band                                                                                                                                                     |  | Open/G-band      |                   | close  | Safe | Norm                                 | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Subr= 2                                                                                                                                                         |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Seqn= 65                                                                                                                                                        |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Open/thick-Be                                                                                                                                                   |  | Open/thick-Be    |                   | close  | Safe | Norm                                 | 64.0s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=98  | 0          | 2.0sec   |
| Seqn= 17                                                                                                                                                        |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| med-Al/Open                                                                                                                                                     |  | med-Al/thick-Al  |                   | close  | Safe | Norm                                 | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| med-Al/Open                                                                                                                                                     |  | med-Al/thick-Al  |                   | close  | Safe | Norm                                 | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| med-Al/Open                                                                                                                                                     |  | med-Al/Open      |                   | close  | Safe | Norm                                 | 32.0s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Seqn= 33                                                                                                                                                        |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| med-Be/Open                                                                                                                                                     |  | Open/thick-Al    |                   | close  | Safe | Norm                                 | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| med-Be/Open                                                                                                                                                     |  | med-Be/Open      |                   | close  | Safe | Norm                                 | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| med-Be/Open                                                                                                                                                     |  | med-Be/Open      |                   | close  | Safe | Norm                                 | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Seqn= 89                                                                                                                                                        |  | 1-time(s)        |                   | 2.0sec |      |                                      |       |     |     |                        |  |       |            |          |
| Al-poly/Ti-poly                                                                                                                                                 |  | Al-poly/thick-Al |                   | close  | Safe | Norm                                 | 63ms  | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Al-poly/Ti-poly                                                                                                                                                 |  | Al-poly/thick-Al |                   | close  | Safe | Norm                                 | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 2.0sec   |
| Default Filter                                                                                                                                                  |  | Thicker Filter   |                   | VLS    | mode | image                                | Exp.  | CCD | Bin | ROI: size (center)     |  | Comp. | AEC Buffer | Interval |

XOB #1D2E: HOP349 - 3-filter Synoptics (Al-mesh[5/181/1443], Al-poly[12/256/2048], thin-Be[24/723/5795] with 512x512 G-band+Leak - 375min cad) + CME

| Term                            |  |                  | Pointing (x, y)   |           |       |       | Comment                              |     |                        |  |       |            |          |        |
|---------------------------------|--|------------------|-------------------|-----------|-------|-------|--------------------------------------|-----|------------------------|--|-------|------------|----------|--------|
| 09/04 04:03:00 - 09/04 05:30:24 |  |                  | Fixed ( 0.0, 0.0) |           |       |       | HOP349 + synoptic, shifted -29.5 min |     |                        |  |       |            |          |        |
| 09/05 04:03:00 - 09/05 06:00:54 |  |                  | Fixed ( 0.0, 0.0) |           |       |       | HOP349 + synoptic, shifted 1.0 min   |     |                        |  |       |            |          |        |
| PROG= 03 Inf.-time(s)           |  |                  |                   |           |       |       |                                      |     |                        |  |       |            |          |        |
| Subr= 1                         |  | 1-time(s)        |                   | 300.0sec  |       |       |                                      |     |                        |  |       |            |          |        |
| Seqn= 66                        |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| Open/Al-mesh                    |  | Open/Al-mesh     | close             | Safe      | Norm  | 5ms   | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh                    |  | Open/Al-mesh     | close             | Safe      | Norm  | 177ms | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh                    |  | Open/Ti-poly     | close             | Safe      | Norm  | 1.41s | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 22                        |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| Al-poly/Open                    |  | Al-poly/Open     | close             | Safe      | Norm  | 12ms  | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open                    |  | Al-poly/Open     | close             | Safe      | Norm  | 250ms | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open                    |  | Al-poly/thick-Al | close             | Safe      | Norm  | 2.00s | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 75                        |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| thin-Be/Open                    |  | thin-Be/Open     | close             | Safe      | Norm  | 24ms  | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open                    |  | thin-Be/Open     | close             | Safe      | Norm  | 707ms | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open                    |  | thin-Be/Open     | close             | Safe      | Norm  | 5.66s | Obs                                  | 2x2 | 2048x2048 (1024, 1024) |  | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 30                        |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| Open/G-band                     |  | Open/G-band      | open              | Safe      | Norm  | 1ms   | Obs                                  | 1x1 | 512x512 (1024, 1024)   |  | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band                     |  | Open/G-band      | close             | Safe      | Norm  | 1ms   | Obs                                  | 1x1 | 512x512 (1024, 1024)   |  | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2                         |  | 15-time(s)       |                   | 1500.0sec |       |       |                                      |     |                        |  |       |            |          |        |
| Seqn= 8                         |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| thin-Be/Open                    |  | med-Be/Open      | close             | Safe      | Norm  | 1.00s | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 3          | 0        | 2.0sec |
| thin-Be/Open                    |  | med-Be/Open      | close             | Safe      | Norm  | 1.41s | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | DPCM  | 2          | 0        | 2.0sec |
| Seqn= 74                        |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| med-Be/Open                     |  | med-Be/Open      | close             | Safe      | Norm  | 500ms | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 3          | 0        | 2.0sec |
| med-Be/Open                     |  | med-Be/Open      | close             | Safe      | Norm  | 2.00s | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 2          | 0        | 2.0sec |
| Seqn= 6                         |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| Al-poly/Open                    |  | Al-poly/Open     | close             | Safe      | Norm  | 125ms | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 3          | 0        | 2.0sec |
| Al-poly/Open                    |  | Al-poly/Open     | close             | Safe      | Norm  | 1.00s | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | DPCM  | 2          | 0        | 2.0sec |
| Seqn= 29                        |  | 1-time(s)        |                   | 2.0sec    |       |       |                                      |     |                        |  |       |            |          |        |
| Open/Al-mesh                    |  | Open/Al-mesh     | close             | Safe      | Norm  | 125ms | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 3          | 0        | 2.0sec |
| Open/Al-mesh                    |  | Open/Al-mesh     | close             | Safe      | Norm  | 250ms | Obs                                  | 4x4 | 2048x2048 (1024, 1024) |  | Q=98  | 2          | 0        | 2.0sec |
| Default Filter                  |  | Thicker Filter   | VLS               | mode      | image | Exp.  | CCD                                  | Bin | ROI: size (center)     |  | Comp. | AEC Buffer | Interval |        |

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

| Term                            |  |                | Pointing (x, y)                         |          |       |       |     |     |                      | Comment |  |       |            |          |        |
|---------------------------------|--|----------------|-----------------------------------------|----------|-------|-------|-----|-----|----------------------|---------|--|-------|------------|----------|--------|
| 09/04 18:32:00 - 09/05 03:21:30 |  |                | Track ( 752.4, -313.2) @ 09/04 18:29:00 |          |       |       |     |     |                      | AR14520 |  |       |            |          |        |
| PROG= 16 Inf.-time(s)           |  |                |                                         |          |       |       |     |     |                      |         |  |       |            |          |        |
| Subr= 1                         |  | 1-time(s)      |                                         | 2.0sec   |       |       |     |     |                      |         |  |       |            |          |        |
| Seqn= 92                        |  | 1-time(s)      |                                         | 2.0sec   |       |       |     |     |                      |         |  |       |            |          |        |
| Open/G-band                     |  | Open/G-band    | open                                    | Safe     | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) |         |  | DPCM  | 0          | 0        | 2.0sec |
| Open/G-band                     |  | Open/G-band    | close                                   | Safe     | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) |         |  | DPCM  | 0          | 0        | 2.0sec |
| Open/Ti-poly                    |  | Open/thick-Al  | close                                   | Safe     | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=98  | 0          | 0        | 2.0sec |
| Subr= 2                         |  | 5-time(s)      |                                         | 2.0sec   |       |       |     |     |                      |         |  |       |            |          |        |
| Seqn= 47                        |  | 1-time(s)      |                                         | 2.0sec   |       |       |     |     |                      |         |  |       |            |          |        |
| Al-poly/Open                    |  | thin-Be/Open   | close                                   | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 2          | 0        | 2.0sec |
| Al-poly/Open                    |  | thin-Be/Open   | close                                   | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 3          | 0        | 2.0sec |
| thin-Be/Open                    |  | med-Be/Open    | close                                   | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 2          | 0        | 2.0sec |
| thin-Be/Open                    |  | med-Be/Open    | close                                   | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 3          | 0        | 2.0sec |
| Seqn= 96                        |  | 4-time(s)      |                                         | 120.0sec |       |       |     |     |                      |         |  |       |            |          |        |
| Al-poly/Open                    |  | thin-Be/Open   | close                                   | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 1          | 0        | 2.0sec |
| thin-Be/Open                    |  | med-Be/Open    | close                                   | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 1          | 0        | 2.0sec |
| Al-poly/Open                    |  | thin-Be/Open   | close                                   | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 1          | 1        | 2.0sec |
| thin-Be/Open                    |  | med-Be/Open    | close                                   | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 1          | 1        | 2.0sec |
| Al-poly/Open                    |  | thin-Be/Open   | close                                   | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 1          | 2        | 2.0sec |
| thin-Be/Open                    |  | med-Be/Open    | close                                   | Safe     | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |         |  | Q=95  | 1          | 2        | 2.0sec |
| Default Filter                  |  | Thicker Filter | VLS                                     | mode     | image | Exp.  | CCD | Bin | ROI: size (center)   |         |  | Comp. | AEC Buffer | Interval |        |

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

| Term                            |  |               | Pointing (x, y)                         |          |      |       |     |     | Comment              |  |  |      |   |   |         |
|---------------------------------|--|---------------|-----------------------------------------|----------|------|-------|-----|-----|----------------------|--|--|------|---|---|---------|
| 09/05 06:14:00 - 09/05 10:34:45 |  |               | Track ( 805.0, -301.7) @ 09/05 06:11:00 |          |      |       |     |     | AR14520              |  |  |      |   |   |         |
| PROG= 19 Inf.-time(s)           |  |               |                                         |          |      |       |     |     |                      |  |  |      |   |   |         |
| Subr= 1                         |  | 1-time(s)     |                                         | 2.0sec   |      |       |     |     |                      |  |  |      |   |   |         |
| Seqn= 92                        |  | 1-time(s)     |                                         | 2.0sec   |      |       |     |     |                      |  |  |      |   |   |         |
| Open/G-band                     |  | Open/G-band   | open                                    | Safe     | Norm | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) |  |  | DPCM | 0 | 0 | 2.0sec  |
| Open/G-band                     |  | Open/G-band   | close                                   | Safe     | Norm | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) |  |  | DPCM | 0 | 0 | 2.0sec  |
| Open/Ti-poly                    |  | Open/thick-Al | close                                   | Safe     | Dark | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=98 | 0 | 0 | 2.0sec  |
| Subr= 2                         |  | 4-time(s)     |                                         | 2.0sec   |      |       |     |     |                      |  |  |      |   |   |         |
| Seqn= 47                        |  | 1-time(s)     |                                         | 2.0sec   |      |       |     |     |                      |  |  |      |   |   |         |
| Al-poly/Open                    |  | thin-Be/Open  | close                                   | Safe     | Norm | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=95 | 2 | 0 | 2.0sec  |
| Al-poly/Open                    |  | thin-Be/Open  | close                                   | Safe     | Norm | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=95 | 3 | 0 | 2.0sec  |
| thin-Be/Open                    |  | med-Be/Open   | close                                   | Safe     | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=95 | 2 | 0 | 2.0sec  |
| thin-Be/Open                    |  | med-Be/Open   | close                                   | Safe     | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=95 | 3 | 0 | 2.0sec  |
| Seqn= 77                        |  | 4-time(s)     |                                         | 300.0sec |      |       |     |     |                      |  |  |      |   |   |         |
| Al-poly/Open                    |  | thin-Be/Open  | close                                   | Safe     | Norm | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=95 | 1 | 0 | 2.0sec  |
| thin-Be/Open                    |  | med-Be/Open   | close                                   | Safe     | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=95 | 1 | 0 | 95.0sec |
| Al-poly/Open                    |  | thin-Be/Open  | close                                   | Safe     | Norm | 250ms | Obs | 1x1 | 384x384 (1064, 1048) |  |  | Q=95 | 1 | 1 | 2.0sec  |

|                |                |       |      |       |       |     |     |                      |       |            |          |         |
|----------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 95.0sec |
| Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec  |
| thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec  |
| Default Filter | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

\* \* \* \* \*

## Flare mode

\* \* \* \* \*

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

| Term                            | Pointing (x, y)                         | Comment                              |
|---------------------------------|-----------------------------------------|--------------------------------------|
| 09/03 11:34:00 - 09/03 18:02:24 | Track ( 567.4, -339.0) @ 09/03 11:31:00 | # OP start + 10min + AR14520         |
| 09/03 18:15:30 - 09/04 03:59:54 | Track ( 612.4, -334.1) @ 09/03 18:12:30 | AR14520                              |
| 09/04 04:03:00 - 09/04 05:30:24 | Fixed ( 0.0, 0.0)                       | HOP349 + synoptic, shifted -29.5 min |
| 09/04 05:43:30 - 09/04 17:55:00 | Track ( 683.4, -324.7) @ 09/04 05:40:30 | AR14520                              |
| 09/04 18:32:00 - 09/05 03:21:30 | Track ( 752.4, -313.2) @ 09/04 18:29:00 | AR14520                              |
| 09/05 04:03:00 - 09/05 06:00:54 | Fixed ( 0.0, 0.0)                       | HOP349 + synoptic, shifted 1.0 min   |
| 09/05 06:14:00 - 09/05 10:34:45 | Track ( 805.0, -301.7) @ 09/05 06:11:00 | AR14520                              |

**PROG= 14 30-time(s)**

|                                  |                |                  |       |       |      |       |     |                    |                      |            |          |          |
|----------------------------------|----------------|------------------|-------|-------|------|-------|-----|--------------------|----------------------|------------|----------|----------|
| <b>Subr= 1 1-time(s) 2.0sec</b>  |                |                  |       |       |      |       |     |                    |                      |            |          |          |
| Seqn= 68 1-time(s) 2.0sec        | Open/G-band    | Open/G-band      | open  | Safe  | Norm | 1ms   | Obs | 1x1                | 384x384 (1024, 1024) | Q=95       | 0        | 0 2.0sec |
| <b>Subr= 2 20-time(s) 2.0sec</b> |                |                  |       |       |      |       |     |                    |                      |            |          |          |
| Seqn= 11 1-time(s) 2.0sec        | Al-poly/Open   | Al-poly/thick-Al | close | Safe  | Norm | 125ms | Obs | 2x2                | 512x512 (1024, 1024) | Q=95       | 2        | 0 2.0sec |
| Seqn= 73 1-time(s) 10.0sec       | thin-Be/Open   | med-Be/Open      | close | Safe  | Norm | 125ms | Obs | 1x1                | 384x384 (1024, 1024) | Q=95       | 3        | 0 2.0sec |
|                                  | med-Be/Open    | Open/thick-Al    | close | Safe  | Norm | 250ms | Obs | 1x1                | 384x384 (1024, 1024) | Q=95       | 3        | 0 2.0sec |
|                                  | Open/thick-Be  | Open/thick-Be    | close | Safe  | Norm | 2.00s | Obs | 1x1                | 384x384 (1024, 1024) | Q=95       | 3        | 0 2.0sec |
| <b>Subr= 3 1-time(s) 2.0sec</b>  |                |                  |       |       |      |       |     |                    |                      |            |          |          |
| Seqn= 10 1-time(s) 2.0sec        | med-Al/Open    | med-Al/thick-Al  | close | Safe  | Norm | 500ms | Obs | 1x1                | 384x384 (1024, 1024) | Q=95       | 3        | 0 2.0sec |
|                                  | Open/thick-Be  | Open/thick-Be    | close | Safe  | Norm | 2.00s | Obs | 1x1                | 384x384 (1024, 1024) | Q=95       | 3        | 0 2.0sec |
| Seqn= 11 1-time(s) 2.0sec        | Al-poly/Open   | Al-poly/thick-Al | close | Safe  | Norm | 125ms | Obs | 2x2                | 512x512 (1024, 1024) | Q=95       | 2        | 0 2.0sec |
| Seqn= 87 1-time(s) 2.0sec        | Open/G-band    | Open/G-band      | open  | Safe  | Norm | 1ms   | Obs | 1x1                | 384x384 (1024, 1024) | Q=98       | 0        | 0 2.0sec |
|                                  | Open/G-band    | Open/G-band      | close | Safe  | Norm | 1ms   | Obs | 1x1                | 384x384 (1024, 1024) | Q=98       | 0        | 0 2.0sec |
|                                  | Open/thick-Al  | Open/thick-Al    | close | Safe  | Dark | 1.00s | Obs | 1x1                | 384x384 (1024, 1024) | Q=98       | 0        | 0 2.0sec |
|                                  | Open/thick-Al  | Open/thick-Al    | close | Safe  | Dark | 1.00s | Obs | 2x2                | 512x512 (1024, 1024) | Q=98       | 0        | 0 2.0sec |
| Default Filter                   | Thicker Filter | VLS              | mode  | image | Exp. | CCD   | Bin | ROI: size (center) | Comp.                | AEC Buffer | Interval |          |

\* \* \* \* \*

## Active Region Search

\* \* \* \* \*

NOT USED

\* \* \* \* \*

## Flare Detection

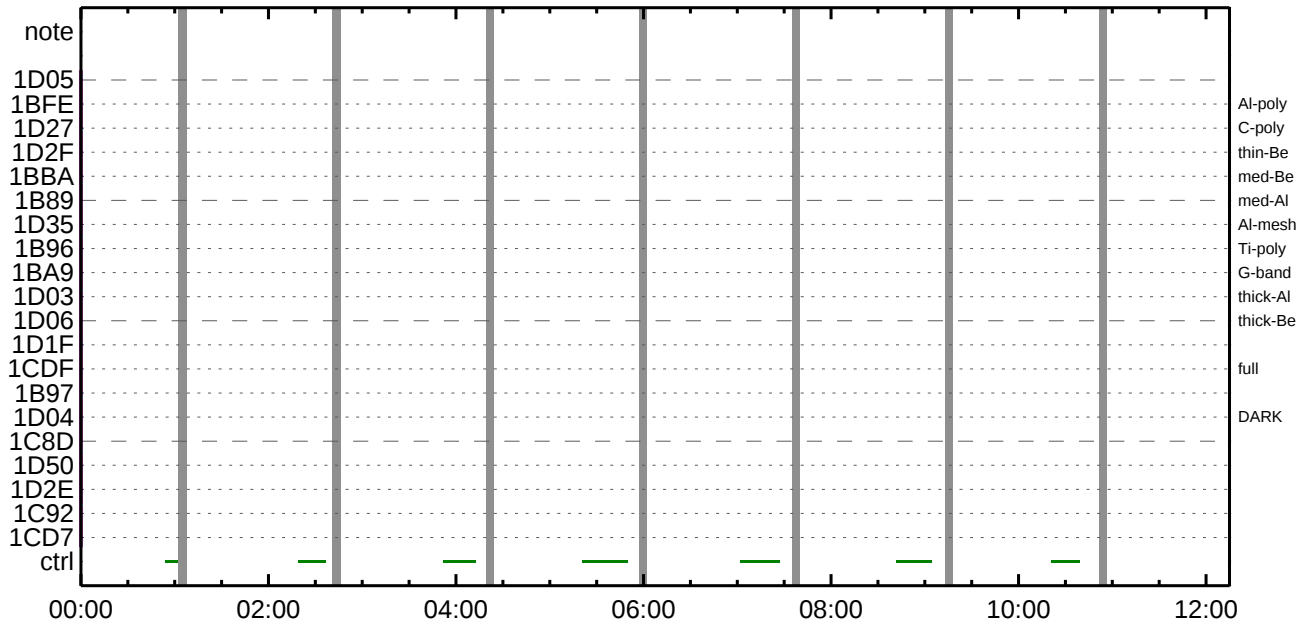
\* \* \* \* \*

| FLD Patrol                      |                        |                  |      |       |      |     |     |                    |         |            |          |  |
|---------------------------------|------------------------|------------------|------|-------|------|-----|-----|--------------------|---------|------------|----------|--|
| Term                            | Pointing (x, y)        |                  |      |       |      |     |     |                    | Comment |            |          |  |
| 09/03 11:01:45 - 09/03 18:02:48 | cannot be identified   |                  |      |       |      |     |     |                    |         |            |          |  |
| 09/03 18:12:48 - 09/04 05:30:48 | Track ( 612.4, -334.1) | @ 09/03 18:12:30 |      |       |      |     |     | AR14520            |         |            |          |  |
| 09/04 05:40:48 - 09/04 18:19:18 | Track ( 683.4, -324.7) | @ 09/04 05:40:30 |      |       |      |     |     | AR14520            |         |            |          |  |
| 09/04 18:29:18 - 09/05 06:01:18 | Track ( 752.4, -313.2) | @ 09/04 18:29:00 |      |       |      |     |     | AR14520            |         |            |          |  |
| 09/05 06:11:18 - 09/08 10:43:00 | Track ( 805.0, -301.7) | @ 09/05 06:11:00 |      |       |      |     |     | AR14520            |         |            |          |  |
| 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 |  |

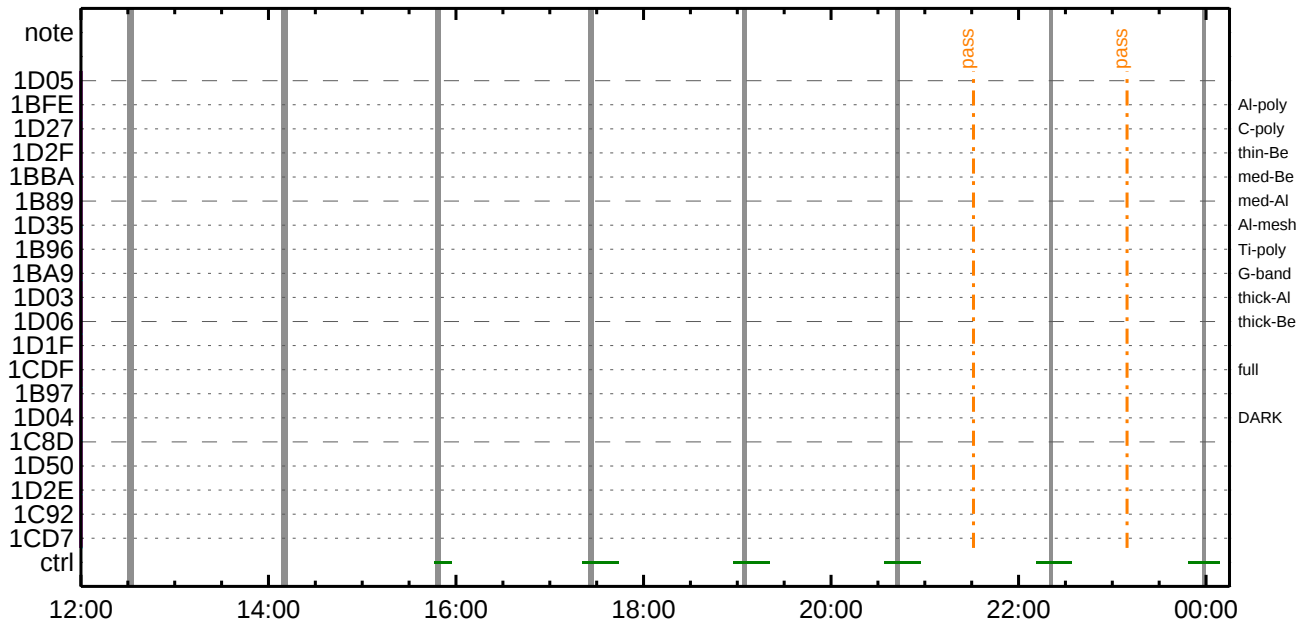




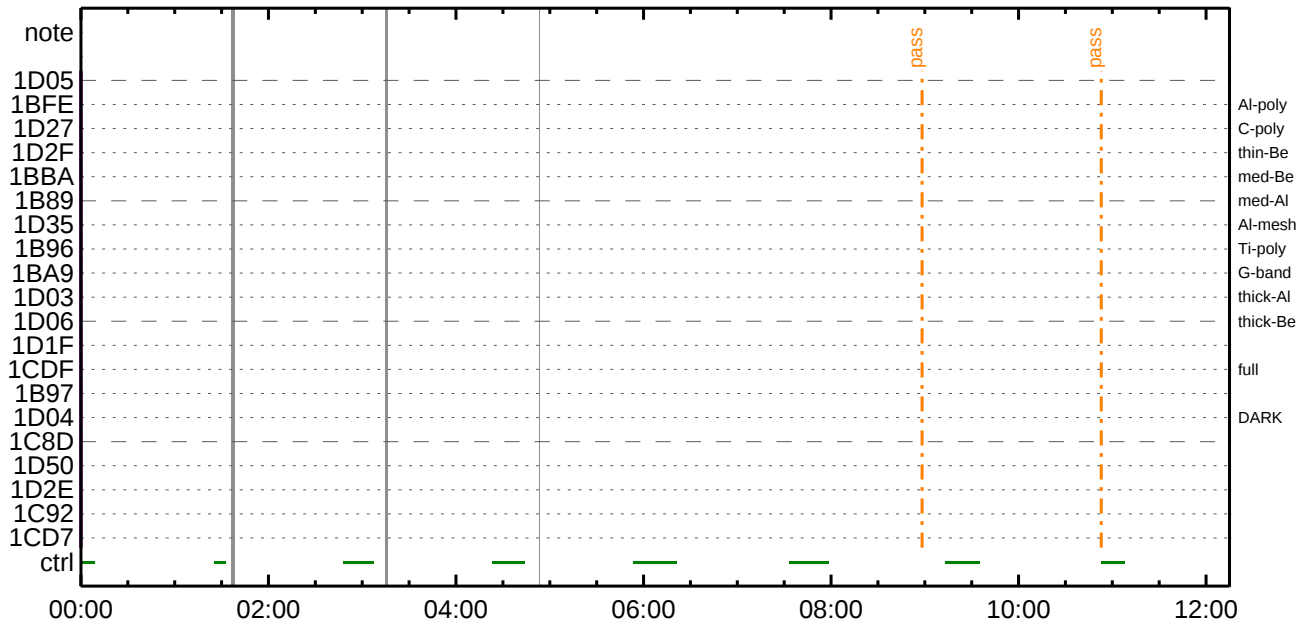
# CMDI #0541 2026/09/06



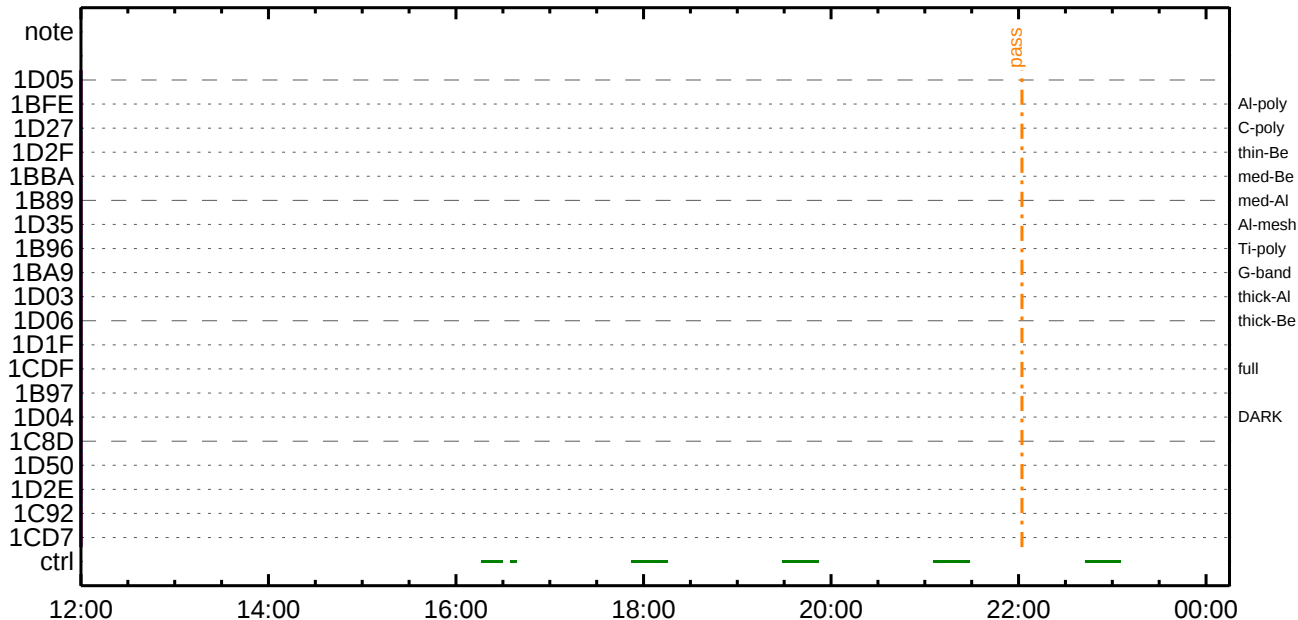
# CMDI #0541 2026/09/06



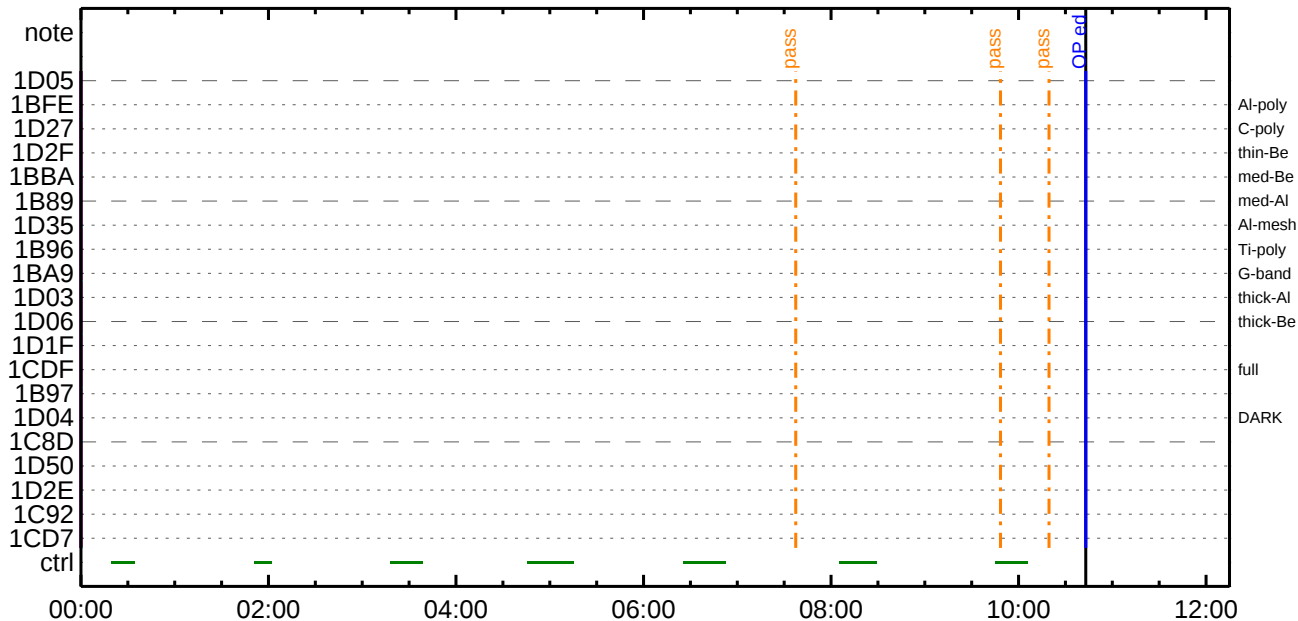
# CMDI #0541 2026/09/07



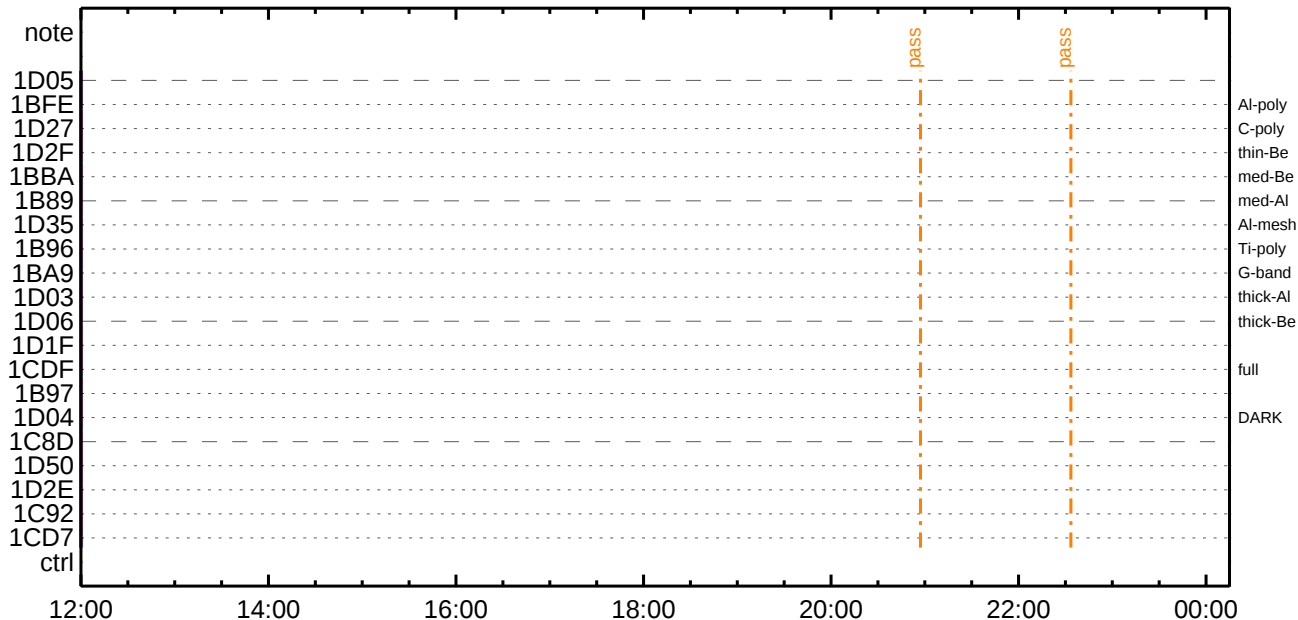
# CMDI #0541 2026/09/07



# CMDI #0541 2026/09/08



# CMDI #0541 2026/09/08



(a) Spacecraft Operation Procedure (real-commands)

```
main-202 2026-09-03 13:07:15 194 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOS¥Á¥$¥Á¥~¼Ä»Ü;ä
0005 C.
0006 C. ¥À¥ß;¼¥³¥Ð¥ó¥ÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;Ë¼¿¼Ä¼•µ°Æ»Í×ÁÇ¼Í¥Ç¥Á¥×¥í;¼¥É;ËËè¼µ•ííË;ËËË¼°ÇÖ¼•¼¿¼í¹Ç¼Í;ÇÀ®,ù¼¹¼è¼Ð¼ÇÁ÷¿®¼•¼Ë¼¼¼³¼È;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OG¥í;¼¥É;|¥À¥ó¥×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OG¥í;¼¥É;ä
0019 . S. OP op-202:OP
0020 ()
0021 . S. OG og-202:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPíî°è¥Á¥ó¥×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0036 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ¥À¥ó¥×¼°áî»¼³íÇ$
0041 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOG¼í¾Ë¹Ç•è²íOK¼³íÇ$
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;$ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0055 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ¥À¥ó¥×¼°áî»¼³íÇ$
0060 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOG¼í¾Ë¹Ç•è²íOK¼³íÇ$
0062 C.
0063 C. NMOG(0x210000-0x2100FF;$ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0074 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ¥À¥ó¥×¼°áî»¼³íÇ$
0079 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OP¼í¾Ë¹Ç•è²íOK¼³íÇ$
0081 C.
0082 . C. ***** °Ë²¼¼í¾Ä´¼¼°¼ËË¬¼°Á÷¿® (¾å¼µ-¥À¥ó¥×¼°è¼Ç¼°ÁÖÄ¼Ç¼°¼¼¬¼è¾í¹Ç¼Ç¼å) *****
0083 C. DHU¥ä;¼¥É;Ë¼ý½, ¥í;¼¥É;Ë¼òíá¼¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. ¢¢[HK1_PKT_FORM_NO] EQ 2
0087 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE ;$ OPOG UPLOAD¼¬Á÷¿®NG¼í¾í¹Ç;Ç°Ë²¼¼íTI-CMDÁ÷¿®¼í¾Ä¹Ö¼•¼Ë¼¼¼³¼È;£
```

|      |    |                                                               |    |      |         |
|------|----|---------------------------------------------------------------|----|------|---------|
| 0096 | C. | SET EDUMP                                                     |    |      |         |
| 0097 | C. |                                                               |    |      |         |
| 0098 | C. | TI 2026-09-03 11:16:00.0                                      |    |      |         |
| 0099 | +  | TI 2026-09-03 11:16:00.0                                      |    |      |         |
| 0100 | DC | 01-B3 DHU_OP_STOP                                             |    |      |         |
| 0101 | C. | [HK1_TI_CMD_NUM]                                              | EQ | 1    | COUNTUP |
| 0102 | C. |                                                               |    |      |         |
| 0103 | +  | TI 2026-09-03 11:16:01.0                                      |    |      |         |
| 0104 | DC | 01-B4 DHU_OP_COPY                                             |    |      |         |
| 0105 | C. | [HK1_TI_CMD_NUM]                                              | EQ | 1    | COUNTUP |
| 0106 | C. |                                                               |    |      |         |
| 0107 | +  | TI 2026-09-03 11:16:01.0                                      |    |      |         |
| 0108 | DC | 01-B5 DHU_OPOG_COPY                                           |    |      |         |
| 0109 | C. | [HK1_TI_CMD_NUM]                                              | EQ | 1    | COUNTUP |
| 0110 | C. |                                                               |    |      |         |
| 0111 | +  | TI 2026-09-03 11:20:59.5                                      |    |      |         |
| 0112 | DC | 01-B2 DHU_OP_START                                            |    |      |         |
| 0113 | C. | [HK1_TI_CMD_NUM]                                              | EQ | 1    | COUNTUP |
| 0114 | C. |                                                               |    |      |         |
| 0115 | C. |                                                               |    |      |         |
| 0116 | C. | [HK1_TI_CMD_ENA/DIS]                                          | EQ |      | ENA     |
| 0117 | C. | [HK1_TI_CMD_NUM]                                              | EQ |      | 4       |
| 0118 | C. | [HK1_NEXT_EXEC_PIM]                                           | EQ |      | DHU     |
| 0119 | C. | [HK1_NEXT_EXEC_DC]                                            | EQ |      | 0xB3    |
| 0120 | C. |                                                               |    |      |         |
| 0121 | C. | *****                                                         |    |      |         |
| 0122 | C. | TI 2026-09-03 11:20:59.5                                      |    |      |         |
| 0123 | C. | *****                                                         |    |      |         |
| 0124 | C. |                                                               |    |      |         |
| 0125 | C. | TI_TBL (0x03AB00-0x03AEFF; 1024byte)                          |    |      |         |
| 0126 | +  | DC 01-23 DHU_DMA_DMP_PRM_SET                                  |    |      |         |
| 0127 | BC | (03 ab 03 01 02)                                              |    |      |         |
| 0128 | C. | [HK1_DMP_TOP_ADRS_1]                                          | EQ | 07   |         |
| 0129 | C. | [HK1_DMP_TOP_ADRS_0]                                          | EQ | 2B   |         |
| 0130 | C. | [HK1_DMP_BLOCK_NUM]                                           | EQ | 3    |         |
| 0131 | C. | [HK1_DMP_REPEAT_NUM]                                          | EQ | 0    |         |
| 0132 | C. | [HK1_DMA_DMP_PIM]                                             | EQ |      | DHU     |
| 0133 | +  | DC 01-22 DHU_MODE_CHNG                                        |    |      |         |
| 0134 | BC | (07 0b f8)                                                    |    |      |         |
| 0135 | C. | [HK1_PKT_FORM_NO]                                             | EQ | 7    |         |
| 0136 | C. | [HK1_PKT_GEN_TIME]                                            | EQ | 0.25 | s       |
| 0137 | C. | [HK1_S_TLM_BIT_RATE]                                          | EQ | 32k  |         |
| 0138 | C. | [HK1_X_TLM_BIT_RATE]                                          | EQ | 4M   |         |
| 0139 | C. | [HK1_DMP_CHK_FLG]                                             | EQ |      | EXEC    |
| 0140 | C. |                                                               |    |      |         |
| 0141 | C. |                                                               |    |      |         |
| 0142 | C. | [HK1_DMP_CHK_FLG]                                             | EQ |      | NON     |
| 0143 | C. |                                                               |    |      |         |
| 0144 | C. | RAM ID=TI_TBL                                                 |    |      |         |
| 0145 | C. |                                                               |    |      |         |
| 0146 | C. | DHU 2026-09-03 11:20:59.5                                     |    |      |         |
| 0147 | +  | DC 01-22 DHU_MODE_CHNG                                        |    |      |         |
| 0148 | BC | (02 0a f8)                                                    |    |      |         |
| 0149 | C. | [HK1_PKT_FORM_NO]                                             | EQ | 2    |         |
| 0150 | C. | [HK1_PKT_GEN_TIME]                                            | EQ | 0.5S |         |
| 0151 | C. | [HK1_S_TLM_BIT_RATE]                                          | EQ | 32K  |         |
| 0152 | C. | [HK1_X_TLM_BIT_RATE]                                          | EQ | 4M   |         |
| 0153 | C. |                                                               |    |      |         |
| 0154 | C. | Stop EIS observation and temporarily disable EIS mode changes |    |      |         |
| 0155 | C. |                                                               |    |      |         |
| 0156 | C. |                                                               |    |      |         |
| 0157 | C. | ***** Start EIS operation (TI set) *****                      |    |      |         |
| 0158 | C. | Execute, after the success of OP upload.                      |    |      |         |
| 0159 | C. | Set EIS TI-commands                                           |    |      |         |
| 0160 | +  | TI 2026-09-03 11:20:30.0                                      |    |      |         |
| 0161 | DC | 07-FC EIS_MODE_MANU                                           |    |      |         |
| 0162 | BC | (21 02)                                                       |    |      |         |
| 0163 | +  | TI 2026-09-03 11:20:40.0                                      |    |      |         |
| 0164 | DC | 07-FC EIS_MODE_CHG_DIS                                        |    |      |         |
| 0165 | BC | (22)                                                          |    |      |         |
| 0166 | C. | [HK1_TI_CMD_NUM]                                              | EQ | 2    | COUNTUP |
| 0167 | C. | ***** End EIS operation (TI set) *****                        |    |      |         |
| 0168 | C. |                                                               |    |      |         |
| 0169 | C. |                                                               |    |      |         |
| 0170 | C. |                                                               |    |      |         |
| 0171 | C. | ***** XRT START *****                                         |    |      |         |
| 0172 | C. | Execute, after the success of OP upload.                      |    |      |         |
| 0173 | +  | TI 2026-09-03 11:20:00.0                                      |    |      |         |
| 0174 | DC | 07-F0 MDP_XRT_MODE_STBY                                       |    |      |         |
| 0175 | BC | (c3)                                                          |    |      |         |
| 0176 | C. | [HK1_TI_CMD_NUM]                                              | EQ | 1    | COUNTUP |
| 0177 | C. |                                                               |    |      |         |
| 0178 | C. | ***** XRT END *****                                           |    |      |         |
| 0179 | C. |                                                               |    |      |         |
| 0180 | C. | ***** MDP 2026-09-03 11:20:00.0 *****                         |    |      |         |
| 0181 | C. | (2026-09-03 11:20:00.0)                                       |    |      |         |
| 0182 | S. | DC-BC dcbc-402:DCBC                                           |    |      |         |
| 0183 |    | (MDP_known_event)                                             |    |      |         |
| 0184 | C. |                                                               |    |      |         |
| 0185 | C. |                                                               |    |      |         |
| 0186 | C. | ***** 2026-09-03 11:20:0                                      |    |      |         |



(a) Spacecraft Operation Procedure (real-commands)

```
main-203 2026-09-03 13:07:15 85 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOS¥Á¥$¥Á¥~¼Ä»Ü;ä
0005 C.
0006 C. ¥À¥ß;¼¥³¥Ð¥ó¥ÉÄ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;Ë¼¿¼Ä¼•µ°Æ»Í×ÁÇ¼Î¥Ç¥Á¥×¥í;¼¥É;ËËè¼µ•ííË;Ë¼Ë¼°ÇÖ¼•¼¿¼¹Ç¼Í;ÇÄ®,ù¼¹¼è¼Ð¼ÇÄ÷¿®¼•¼Ë¼¼¼³¼Ë;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 9s
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 2026-09-03 11:20:50.0
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 ´ûÄî¼Î»ö¼Ý¼ËÄÐ¼¹¼èDCBC•×²è *****
0072 C. (¾ä°î¥Ó¥Ä¥Ë¥Ð¥Ë¥ä¥Ç¥è¼Ë¼¼¼¼Ä»Ü¼¹¼è)
0073 . S. DC-BC dcbc-402:DCBC
0074 (MDP_known_event)
0075 C.
0076 C.
0077 . C. ***** ¥Ð¥¹•Ï Daily±¿íî¼Ë´Ø¼¹¼èDCBC•×²è *****
0078 . S. DC-BC dcbc-153:DCBC
0079 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0080 C.
0081 C.
0082 . C. ;ãLOS¥Á¥$¥Á¥~¼Ä»Ü;ä
0083 C.
0084 . C. ***** LOS *****
0085 C.
```

[illegible]

0096 C.  
0097 . C. ;ãLOS¥Á¥\$¥Ã¥~¼Ã»Ü;ä  
0098 C.  
0099 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0100 C.

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

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/09/03 | 11:30:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 11:30:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 11:30:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/09/03 | 11:31:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 03 e7 02 0c |
| 2026/09/03 | 11:31:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/09/03 | 11:31:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/09/03 | 11:31:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/09/03 | 11:31:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/09/03 | 11:31:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/03 | 11:33:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |
| 2026/09/03 | 11:33:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/09/03 | 11:34:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/03 | 15:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 15:46:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 15:46:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/03 | 15:46:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/03 | 15:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/03 | 16:01:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/09/03 | 16:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/03 | 17:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 17:24:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 17:24:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/03 | 17:24:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/03 | 17:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/03 | 17:48:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/09/03 | 17:49:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/03 | 18:02:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 18:02:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 18:02:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/09/03 | 18:02:30.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2026/09/03 | 18:02:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2026/09/03 | 18:02:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2026/09/03 | 18:02:52.0 | XRT_ARS_DIS_420_OG [0x1a4]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/09/03 | 18:05:28.0 | XRT_QT_PROG_SET_428_OG [0x1ac]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |
| 2026/09/03 | 18:05:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/03 | 18:12:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 18:12:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/03 | 18:12:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/09/03 | 18:12:30.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 03 e7 02 0c |
| 2026/09/03 | 18:12:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/09/03 | 18:12:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/09/03 | 18:12:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/09/03 | 18:12:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/09/03 | 18:12:56.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/03 | 18:15:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |
| 2026/09/03 | 18:15:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/09/03 | 18:15:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |

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|            |            |                                |                     |   |       |    |
|------------|------------|--------------------------------|---------------------|---|-------|----|
| 2026/09/03 | 19:01:00.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2026/09/03 | 19:01:02.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 19:01:04.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 19:01:06.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2026/09/03 | 19:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2026/09/03 | 19:24:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2026/09/03 | 19:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2026/09/03 | 20:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2026/09/03 | 20:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 20:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 20:37:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2026/09/03 | 20:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2026/09/03 | 21:01:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2026/09/03 | 21:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2026/09/03 | 22:14:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2026/09/03 | 22:14:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 22:14:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 22:14:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2026/09/03 | 22:17:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2026/09/03 | 22:37:30.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2026/09/03 | 22:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2026/09/03 | 23:51:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2026/09/03 | 23:51:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 23:51:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/03 | 23:51:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2026/09/03 | 23:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2026/09/03 | 23:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2026/09/04 | 00:12:00.0 | XRT_Custom_430_OG [0x1ae]      |                     |   |       |    |
| 2026/09/04 | 00:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2026/09/04 | 01:28:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2026/09/04 | 01:28:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/04 | 01:28:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/04 | 01:28:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2026/09/04 | 01:31:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2026/09/04 | 01:44:00.0 | XRT_Custom_430_OG [0x1ae]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2026/09/04 | 01:45:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2026/09/04 | 02:51:30.0 | XRT_CTRL_MANU_400_OG [0x190]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2026/09/04 | 02:51:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/04 | 02:51:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/04 | 02:51:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2026/09/04 | 02:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2026/09/04 | 02:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2026/09/04 | 03:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |                     |   |       |    |
| 2026/09/04 | 03:13:32.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/04 | 03:13:34.0 | XRT_FLD_RESET_415_OG [0x19f]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/04 | 03:13:36.0 | XRT_PREFLR_STRT_404_OG [0x194] | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |
| 2026/09/04 | 03:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2026/09/04 | 03:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2026/09/04 | 03:22:00.0 | XRT_Custom_430_OG [0x1ae]      |                     |   |       |    |
| 2026/09/04 | 03:23:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |                     |   |       |    |
| 2026/09/04 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |
| 2026/09/04 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |
| 2026/09/04 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |



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|            |            |                                |   |          |
|------------|------------|--------------------------------|---|----------|
| 2026/09/04 | 06:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 06:29:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 06:29:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 06:29:36.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |
| 2026/09/04 | 06:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |          |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 e9 |
| 2026/09/04 | 06:38:30.0 | XRT_Custom_430_OG [0x1ae]      |   |          |
| 2026/09/04 | 06:39:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |          |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 c0 |
| 2026/09/04 | 07:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 07:37:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 07:37:04.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 07:37:06.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |
| 2026/09/04 | 07:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |          |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 e9 |
| 2026/09/04 | 08:08:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 08:08:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 08:08:04.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 08:08:06.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |
| 2026/09/04 | 08:11:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |          |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 e9 |
| 2026/09/04 | 08:16:30.0 | XRT_Custom_430_OG [0x1ae]      |   |          |
| 2026/09/04 | 08:17:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |          |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 c0 |
| 2026/09/04 | 09:16:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 09:16:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 09:16:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 09:16:36.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |
| 2026/09/04 | 09:19:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |          |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 e9 |
| 2026/09/04 | 09:38:00.0 | XRT_Custom_430_OG [0x1ae]      |   |          |
| 2026/09/04 | 09:39:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |          |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 c0 |
| 2026/09/04 | 09:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 09:46:02.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 09:46:04.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 09:46:06.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |
| 2026/09/04 | 09:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |          |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 e9 |
| 2026/09/04 | 09:54:30.0 | XRT_Custom_430_OG [0x1ae]      |   |          |
| 2026/09/04 | 09:55:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |          |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 c0 |
| 2026/09/04 | 10:56:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 10:56:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 10:56:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 10:56:36.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |
| 2026/09/04 | 10:59:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |          |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 e9 |
| 2026/09/04 | 11:11:00.0 | XRT_Custom_430_OG [0x1ae]      |   |          |
| 2026/09/04 | 11:12:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |          |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 c0 |
| 2026/09/04 | 16:18:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 16:18:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 16:18:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 16:18:36.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |
| 2026/09/04 | 16:21:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |          |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 e9 |
| 2026/09/04 | 16:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 16:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]   |   |          |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 c1 |
| 2026/09/04 | 16:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |          |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 da |
| 2026/09/04 | 16:37:36.0 | XRT_PREFLR_STRT_404_OG [0x194] |   |          |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 e8 |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2026/09/04 | 16:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/09/04 | 16:42:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2026/09/04 | 16:43:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/09/04 | 17:55:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 17:55:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 17:55:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/09/04 | 17:55:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/09/04 | 17:58:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/09/04 | 18:18:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 18:18:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 18:18:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2026/09/04 | 18:19:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2026/09/04 | 18:19:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2026/09/04 | 18:19:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2026/09/04 | 18:19:22.0 | XRT_ARS_DIS_420_OG [0x1a4]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/09/04 | 18:21:58.0 | XRT_QT_PROG_SET_428_OG [0x1ac]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |  |
| 2026/09/04 | 18:22:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/09/04 | 18:28:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 18:28:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 18:28:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2026/09/04 | 18:29:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 03 e7 02 0c |  |  |  |  |
| 2026/09/04 | 18:29:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2026/09/04 | 18:29:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2026/09/04 | 18:29:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2026/09/04 | 18:29:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/09/04 | 18:29:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/09/04 | 18:31:56.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2026/09/04 | 18:31:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2026/09/04 | 18:32:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/09/04 | 19:32:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 19:32:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 19:32:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/09/04 | 19:32:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/09/04 | 19:35:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/09/04 | 19:55:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2026/09/04 | 19:56:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/09/04 | 21:08:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 21:08:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 21:08:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/09/04 | 21:08:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/09/04 | 21:11:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/09/04 | 21:32:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2026/09/04 | 21:33:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/09/04 | 22:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 22:46:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/09/04 | 22:46:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2026/09/04 | 22:46:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/09/04 | 22:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/09/04 | 23:08:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/09/04 | 23:09:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 00:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 00:23:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 00:23:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 00:23:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 00:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 00:37:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/09/05 | 00:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 01:53:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 01:53:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 01:53:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 01:53:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 01:56:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 02:08:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 02:08:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 02:08:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 02:08:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 02:11:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 02:15:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/09/05 | 02:16:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 03:21:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 03:21:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 03:21:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 03:21:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 03:24:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 03:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 03:46:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 03:46:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 03:46:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 03:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/09/05 | 04:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2026/09/05 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/09/05 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/09/05 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/09/05 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/09/05 | 04:00:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 04:02:56.0 | XRT_QT_PROG_SET_418_OG [0x1a2]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |
| 2026/09/05 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/09/05 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 04:49:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 04:49:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 04:49:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 04:49:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 04:52:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/09/05 | 05:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 05:24:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 05:24:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 05:24:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 05:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 05:31:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/09/05 | 05:32:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 06:00:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 06:00:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 06:00:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/09/05 | 06:01:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2026/09/05 | 06:01:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2026/09/05 | 06:01:22.0 | XRT_ARS_DIS_420_OG [0x1a4]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/09/05 | 06:03:58.0 | XRT_QT_PROG_SET_428_OG [0x1ac]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |
| 2026/09/05 | 06:04:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 06:10:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 06:10:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 06:10:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/09/05 | 06:11:00.0 | AOCs_Ore-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 03 e7 02 0c |
| 2026/09/05 | 06:11:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/09/05 | 06:11:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/09/05 | 06:11:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/09/05 | 06:11:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/09/05 | 06:11:26.0 | XRT_FLD_RESET_401_OG [0x191]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 06:13:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 13          |
| 2026/09/05 | 06:13:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/09/05 | 06:14:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 06:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 06:29:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 06:29:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 06:29:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 06:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 07:02:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 07:02:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 07:02:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 07:02:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 07:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 07:09:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/09/05 | 07:10:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/09/05 | 08:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 08:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 08:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 08:09:06.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/09/05 | 08:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/09/05 | 08:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 08:40:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/09/05 | 08:40:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/09/05 | 08:40:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |   |       |                |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2026/09/05 | 08:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/09/05 | 08:47:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2026/09/05 | 08:48:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/09/05 | 09:48:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/09/05 | 09:48:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/09/05 | 09:48:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/09/05 | 09:48:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |                     |   |       |                |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/09/05 | 09:51:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/09/05 | 10:18:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/09/05 | 10:18:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/09/05 | 10:18:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/09/05 | 10:18:36.0 | XRT_PREFLR_STRT_404_OG [0x194]    |                     |   |       |                |
|            |            |                                   | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/09/05 | 10:21:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |                     |   |       |                |
|            |            |                                   | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/09/05 | 10:25:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2026/09/05 | 10:26:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/09/05 | 10:34:45.0 | XRT_CTRL_MANU_402_OG [0x192]      |                     |   |       |                |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/09/05 | 10:56:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |                     |   |       |                |
|            |            | AOCU_NM                           |                     | 5 | 02-76 | 00 00 00 00 00 |