

## Period: 2026/01/17 11:06:00 - 2026/01/27 11:12:00

Period: 2026/01/17 11:06:00 - 2026/01/27 11:12:00

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| XOB #1D07: Synoptic 8 Filter w/ Al-mesh(5/128/723), Al-poly(8/181/1443), Thin-Be(33/512/4096), Thick-Be(32768), Med-Al(256/8192/32768), Med-Be(128/5795) |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------|--|--|----------------------------|--|--|--|--|--|--|--|--|--|--|
| Term                                                                                                                                                     |  |  | Pointing (x, y)   |  |  | Comment                    |  |  |  |  |  |  |  |  |  |  |
| 01/17 18:04:30 - 01/17 18:11:24                                                                                                                          |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, shifted 1.5 min  |  |  |  |  |  |  |  |  |  |  |
| 01/18 05:32:32 - 01/18 05:39:54                                                                                                                          |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, HOP 349          |  |  |  |  |  |  |  |  |  |  |
| 01/18 18:21:30 - 01/18 18:28:24                                                                                                                          |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, shifted 18.5 min |  |  |  |  |  |  |  |  |  |  |
| 01/19 06:03:56 - 01/19 06:10:24                                                                                                                          |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, + HOP 349        |  |  |  |  |  |  |  |  |  |  |
| 01/19 18:03:00 - 01/19 18:09:54                                                                                                                          |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic                   |  |  |  |  |  |  |  |  |  |  |
| 01/20 06:01:26 - 01/20 06:09:54                                                                                                                          |  |  | Fixed ( 0.0, 0.0) |  |  | synoptic, + HOP 349        |  |  |  |  |  |  |  |  |  |  |
| PROG= 06 1-time(s)                                                                                                                                       |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Subr= 1 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 5 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                          |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                          |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                          |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 26 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 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/Al-mesh Open/Al-mesh close Safe Norm 707ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 99 1-time(s) 2.0sec                                                                                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Al-poly/Open Al-poly/Open close Safe Norm 8ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                             |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Al-poly/Open Al-poly/Open close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Al-poly/Open Al-poly/thick-Al close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                       |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 83 1-time(s) 2.0sec                                                                                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| thin-Be/Open thin-Be/Open close Safe Norm 32ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                            |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| thin-Be/Open thin-Be/Open close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| thin-Be/Open thin-Be/Open close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 23 1-time(s) 4.0sec                                                                                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                               |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Subr= 2 1-time(s) 2.0sec                                                                                                                                 |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 41 1-time(s) 2.0sec                                                                                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Open/thick-Be Open/thick-Be close Safe Norm 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                         |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 17 1-time(s) 2.0sec                                                                                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| med-Al/Open med-Al/thick-Al close Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                         |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| med-Al/Open med-Al/thick-Al close Safe Norm 8.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                         |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| med-Al/Open med-Al/Open close Safe Norm 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                             |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 33 1-time(s) 2.0sec                                                                                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| med-Be/Open Open/thick-Al close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                           |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| med-Be/Open med-Be/Open close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                             |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| med-Be/Open med-Be/Open close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                             |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Seqn= 75 1-time(s) 2.0sec                                                                                                                                |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 44ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                     |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                    |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |
| Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval                                                   |  |  |                   |  |  |                            |  |  |  |  |  |  |  |  |  |  |

| Term                            | Pointing (x, y)   | Comment             |
|---------------------------------|-------------------|---------------------|
| 01/18 04:03:00 - 01/18 05:32:00 | Fixed ( 0.0, 0.0) | synoptic, HOP 349   |
| 01/19 04:03:30 - 01/19 06:03:24 | Fixed ( 0.0, 0.0) | synoptic, + HOP 349 |
| 01/20 04:14:00 - 01/20 06:00:54 | Fixed ( 0.0, 0.0) | synoptic, + HOP 349 |

| Subr=                                                                   | 1            | 1-time(s)        | 300.0sec     |       |      |       |       |                      |                        |                        |      |        |        |        |
|-------------------------------------------------------------------------|--------------|------------------|--------------|-------|------|-------|-------|----------------------|------------------------|------------------------|------|--------|--------|--------|
| <div> <div>Seqn=100</div> <div>1-time(s)</div> <div>2.0sec</div> </div> | Open/Al-mesh | Open/Al-mesh     | close        | Safe  | Norm | 8ms   | Obs   | 2x2                  | 2048x2048 (1024, 1024) | Q=95                   | 0    | 0      | 2.0sec |        |
|                                                                         | Open/Al-mesh | Open/Al-mesh     | close        | Safe  | Norm | 177ms | Obs   | 2x2                  | 2048x2048 (1024, 1024) | Q=95                   | 0    | 0      | 2.0sec |        |
|                                                                         | Open/Al-mesh | Open/Al-mesh     | close        | Safe  | Norm | 2.83s | Obs   | 2x2                  | 2048x2048 (1024, 1024) | Q=95                   | 0    | 0      | 2.0sec |        |
|                                                                         | Seqn= 84     | 1-time(s)        | 2.0sec       |       |      |       |       |                      |                        |                        |      |        |        |        |
|                                                                         |              | Al-poly/Open     | Al-poly/Open | close | Safe | Norm  | 16ms  | Obs                  | 2x2                    | 2048x2048 (1024, 1024) | Q=95 | 0      | 0      | 2.0sec |
|                                                                         |              | Al-poly/Open     | Al-poly/Open | close | Safe | Norm  | 177ms | Obs                  | 2x2                    | 2048x2048 (1024, 1024) | Q=95 | 0      | 0      | 2.0sec |
|                                                                         | Al-poly/Open | Al-poly/thick-Al | close        | Safe  | Norm | 4.00s | Obs   | 2x2                  | 2048x2048 (1024, 1024) | Q=95                   | 0    | 0      | 2.0sec |        |
|                                                                         | Seqn= 57     | 1-time(s)        | 2.0sec       |       |      |       |       |                      |                        |                        |      |        |        |        |
|                                                                         |              | thin-Be/Open     | thin-Be/Open | close | Safe | Norm  | 63ms  | Obs                  | 2x2                    | 2048x2048 (1024, 1024) | Q=95 | 0      | 0      | 2.0sec |
|                                                                         |              | thin-Be/Open     | thin-Be/Open | close | Safe | Norm  | 1.00s | Obs                  | 2x2                    | 2048x2048 (1024, 1024) | Q=95 | 0      | 0      | 2.0sec |
|                                                                         | thin-Be/Open | thin-Be/Open     | close        | Safe  | Norm | 11.3s | Obs   | 2x2                  | 2048x2048 (1024, 1024) | Q=95                   | 0    | 0      | 2.0sec |        |
|                                                                         | Seqn= 81     | 1-time(s)        | 2.0sec       |       |      |       |       |                      |                        |                        |      |        |        |        |
| Open/G-band                                                             |              | Open/G-band      | open         | Safe  | Norm | 1ms   | Obs   | 1x1                  | 512x512 (1064, 1048)   | Q=90                   | 0    | 0      | 2.0sec |        |
| Open/G-band                                                             | Open/G-band  | close            | Safe         | Norm  | 1ms  | Obs   | 1x1   | 512x512 (1064, 1048) | Q=95                   | 0                      | 0    | 2.0sec |        |        |

| Subr=                                                                                                                                                                                                                 | 2              | 6-time(s)      | 1200.0sec |      |       |       |     |     |                        |       |            |          |        |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|--|--|
| <div> <div>Seqn= 8</div> <div>1-time(s)</div> <div>2.0sec</div> </div> <div> <div>Seqn= 6</div> <div>1-time(s)</div> <div>2.0sec</div> </div> <div> <div>Seqn= 29</div> <div>1-time(s)</div> <div>2.0sec</div> </div> | 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 |  |  |
|                                                                                                                                                                                                                       | 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 |  |  |
|                                                                                                                                                                                                                       | 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 |        |  |  |

| Term                            | Pointing (x, y)                          | Comment   |
|---------------------------------|------------------------------------------|-----------|
| 01/18 05:43:00 - 01/18 17:54:30 | Track ( -450.2, -145.2) @ 01/18 05:40:00 | # AR obs. |
| 01/18 18:31:30 - 01/19 04:00:24 | Track ( -340.8, -140.5) @ 01/18 18:28:30 | # AR obs. |
| 01/19 06:13:30 - 01/19 17:59:54 | Track ( -236.6, -137.1) @ 01/19 06:10:30 | # AR obs. |
| 01/19 18:14:32 - 01/20 03:52:00 | Track ( -126.9, -134.7) @ 01/19 18:10:00 | # AR obs. |
| 01/20 06:13:00 - 01/20 10:20:30 | Track ( -15.6, -133.4) @ 01/20 06:10:00  | # AR obs. |

| 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 |

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| Term                            | Pointing (x, y)                          | Comment                     |
|---------------------------------|------------------------------------------|-----------------------------|
| 01/17 11:19:00 - 01/17 18:01:24 | Track ( 199.9, -141.8) @ 01/17 11:16:00  | # OP start + 10min AR 14343 |
| 01/17 18:14:30 - 01/18 03:59:54 | Track ( -542.6, -150.3) @ 01/17 18:11:30 | # AR obs. AR14341           |
| 01/18 04:03:00 - 01/18 05:32:00 | Fixed ( 0.0, 0.0)                        | synoptic, HOP 349           |
| 01/18 05:43:00 - 01/18 17:54:30 | Track ( -450.2, -145.2) @ 01/18 05:40:00 | # AR obs.                   |
| 01/18 18:31:30 - 01/19 04:00:24 | Track ( -340.8, -140.5) @ 01/18 18:28:30 | # AR obs.                   |
| 01/19 04:03:30 - 01/19 06:03:24 | Fixed ( 0.0, 0.0)                        | synoptic, + HOP 349         |
| 01/19 06:13:30 - 01/19 17:59:54 | Track ( -236.6, -137.1) @ 01/19 06:10:30 | # AR obs.                   |
| 01/19 18:14:32 - 01/20 03:52:00 | Track ( -126.9, -134.7) @ 01/19 18:10:00 | # AR obs.                   |
| 01/20 04:14:00 - 01/20 06:00:54 | Fixed ( 0.0, 0.0)                        | synoptic, + HOP 349         |
| 01/20 06:13:00 - 01/20 10:20:30 | Track ( -15.6, -133.4) @ 01/20 06:10:00  | # AR obs.                   |

|                        |                |                  |       |         |       |       |     |     |                      |       |            |             |
|------------------------|----------------|------------------|-------|---------|-------|-------|-----|-----|----------------------|-------|------------|-------------|
| PROG= 14    30-time(s) |                |                  |       |         |       |       |     |     |                      |       |            |             |
| Subr= 1                |                | 1-time(s)        |       | 2.0sec  |       |       |     |     |                      |       |            |             |
| Seqn= 68               |                | 1-time(s)        |       | 2.0sec  |       |       |     |     |                      |       |            |             |
|                        | Open/G-band    | Open/G-band      | open  | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 0          | 0    2.0sec |
| Subr= 2                |                | 20-time(s)       |       | 2.0sec  |       |       |     |     |                      |       |            |             |
| Seqn= 11               |                | 1-time(s)        |       | 2.0sec  |       |       |     |     |                      |       |            |             |
|                        | Al-poly/Open   | Al-poly/thick-Al | close | Safe    | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0    2.0sec |
| Seqn= 73               |                | 1-time(s)        |       | 10.0sec |       |       |     |     |                      |       |            |             |
|                        | thin-Be/Open   | med-Be/Open      | close | Safe    | Norm  | 125ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
|                        | med-Be/Open    | Open/thick-Al    | close | Safe    | Norm  | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
|                        | Open/thick-Be  | Open/thick-Be    | close | Safe    | Norm  | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
| Subr= 3                |                | 1-time(s)        |       | 2.0sec  |       |       |     |     |                      |       |            |             |
| Seqn= 10               |                | 1-time(s)        |       | 2.0sec  |       |       |     |     |                      |       |            |             |
|                        | med-Al/Open    | med-Al/thick-Al  | close | Safe    | Norm  | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
|                        | Open/thick-Be  | Open/thick-Be    | close | Safe    | Norm  | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0    2.0sec |
| Seqn= 11               |                | 1-time(s)        |       | 2.0sec  |       |       |     |     |                      |       |            |             |
|                        | Al-poly/Open   | Al-poly/thick-Al | close | Safe    | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0    2.0sec |
| Seqn= 87               |                | 1-time(s)        |       | 2.0sec  |       |       |     |     |                      |       |            |             |
|                        | Open/G-band    | Open/G-band      | open  | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                        | Open/G-band    | Open/G-band      | close | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                        | Open/thick-Al  | Open/thick-Al    | close | Safe    | Dark  | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                        | Open/thick-Al  | Open/thick-Al    | close | Safe    | Dark  | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98  | 0          | 0    2.0sec |
|                        | Default Filter | Thicker Filter   | VLS   | mode    | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval    |

\* \* \* \* \*

## Active Region Search

\* \* \* \* \*

NOT USED

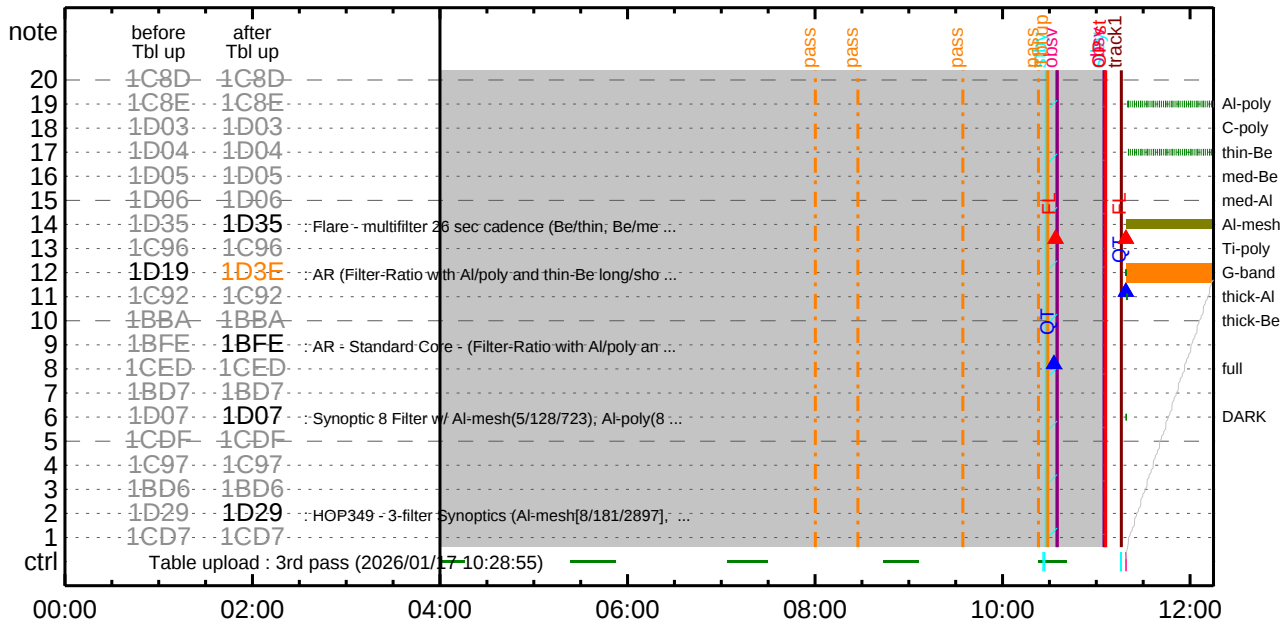
\* \* \* \* \*

## Flare Detection

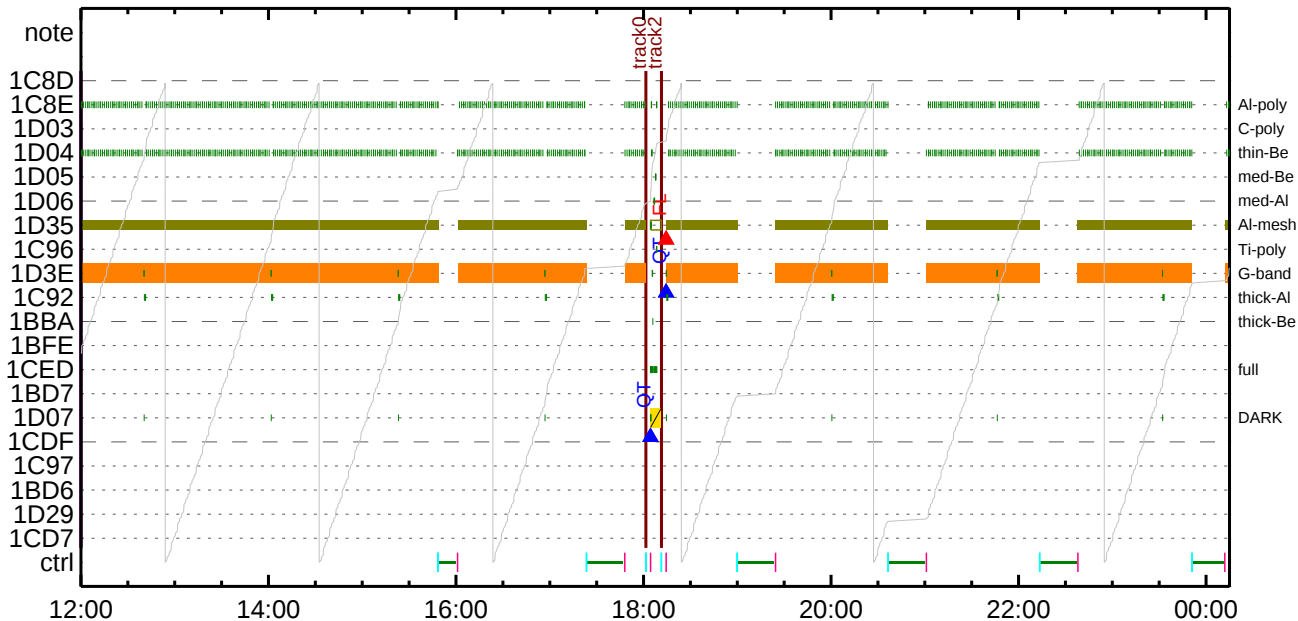
\* \* \* \* \*

| FLD Patrol                      |                |                                          |       |      |       |                   |     |     |                    |       |            |          |
|---------------------------------|----------------|------------------------------------------|-------|------|-------|-------------------|-----|-----|--------------------|-------|------------|----------|
| Term                            |                | Pointing (x, y)                          |       |      |       | Comment           |     |     |                    |       |            |          |
| 01/17 10:29:55 - 01/17 18:01:48 |                | cannot be identified                     |       |      |       |                   |     |     |                    |       |            |          |
| 01/17 18:11:48 - 01/18 05:32:24 |                | Track ( -542.6, -150.3) @ 01/17 18:11:30 |       |      |       | # AR obs. AR14341 |     |     |                    |       |            |          |
| 01/18 05:40:18 - 01/18 18:18:48 |                | Track ( -450.2, -145.2) @ 01/18 05:40:00 |       |      |       | # AR obs.         |     |     |                    |       |            |          |
| 01/18 18:28:48 - 01/19 06:03:48 |                | Track ( -340.8, -140.5) @ 01/18 18:28:30 |       |      |       | # AR obs.         |     |     |                    |       |            |          |
| 01/19 06:10:48 - 01/19 18:00:18 |                | Track ( -236.6, -137.1) @ 01/19 06:10:30 |       |      |       | # AR obs.         |     |     |                    |       |            |          |
| 01/19 18:14:18 - 01/20 06:01:18 |                | Track ( -126.9, -134.7) @ 01/19 18:10:00 |       |      |       | # AR obs.         |     |     |                    |       |            |          |
| 01/20 06:10:18 - 01/27 11:12:00 |                | Track ( -15.6, -133.4) @ 01/20 06:10:00  |       |      |       | # AR obs.         |     |     |                    |       |            |          |
|                                 | 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 |

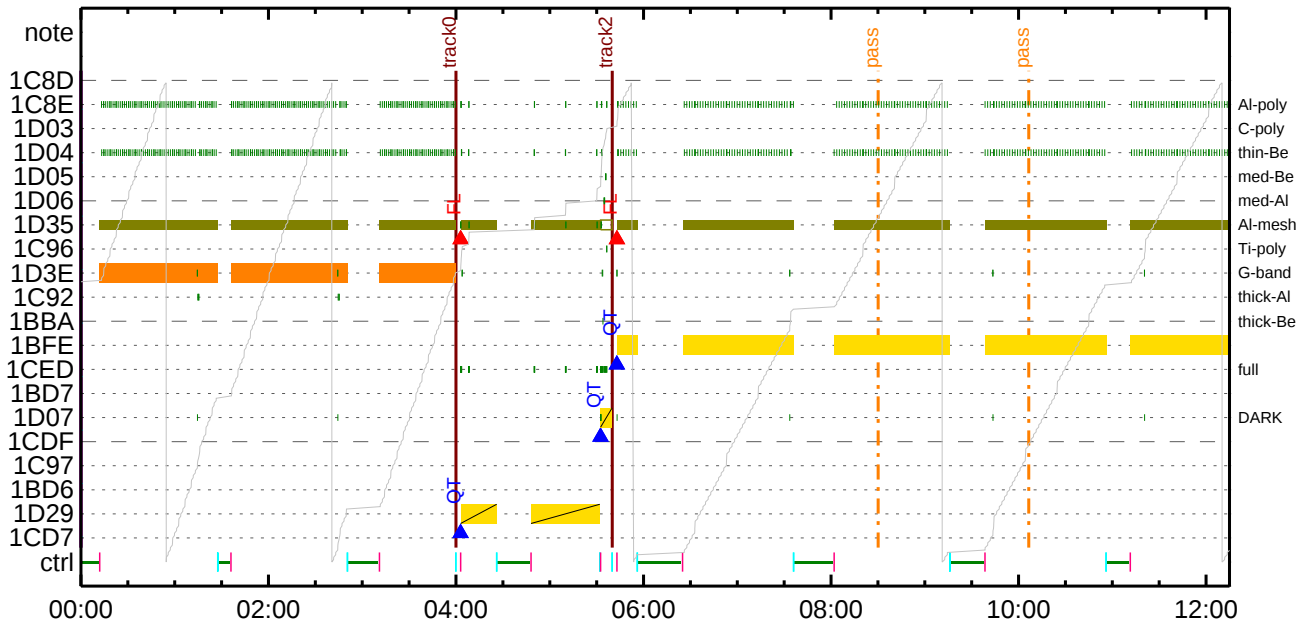
# CMDI #0081 2026/01/17



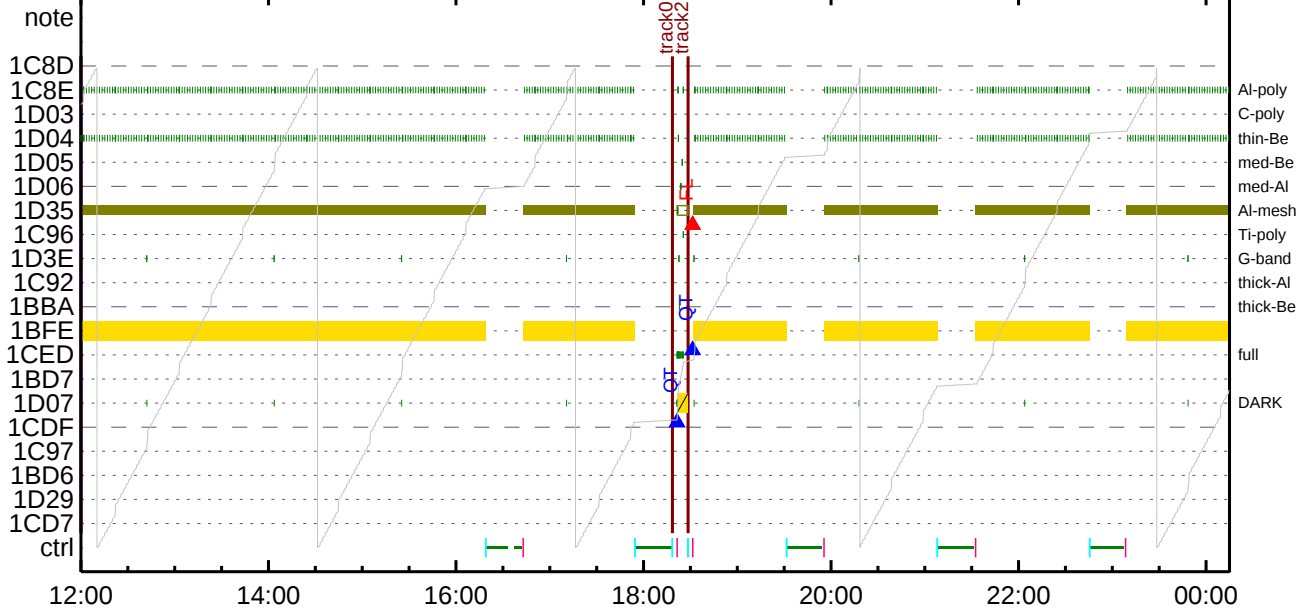
# CMDI #0081 2026/01/17



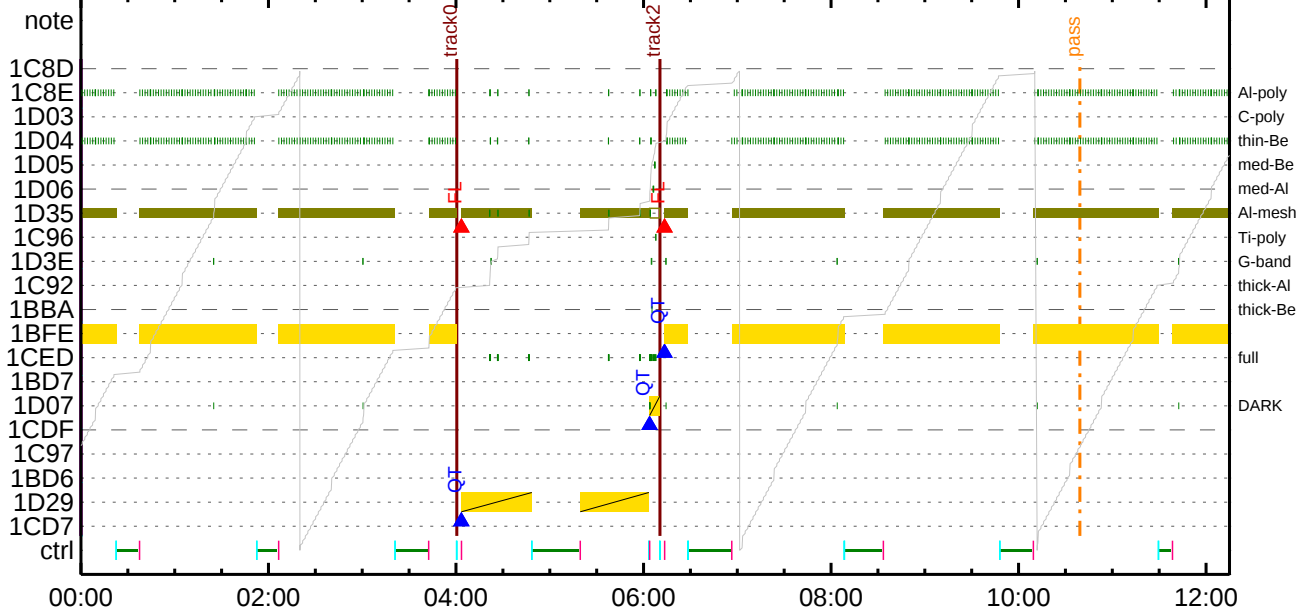
# CMDI #0081 2026/01/18



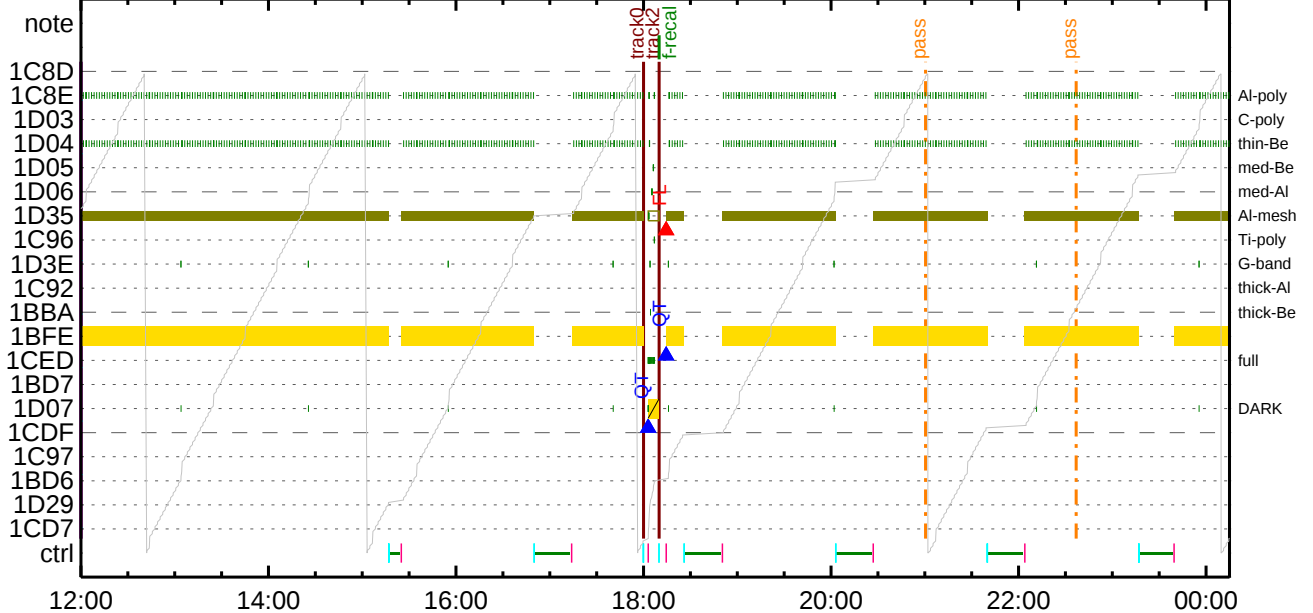
# CMDI #0081 2026/01/18



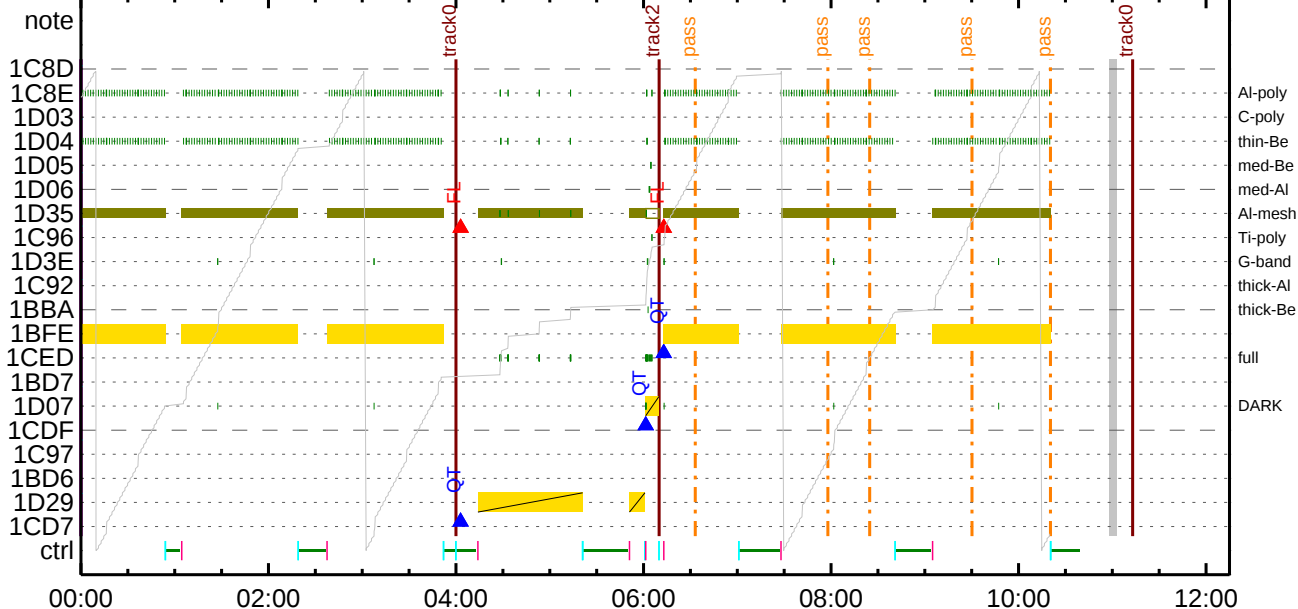
# CMDI #0081 2026/01/19



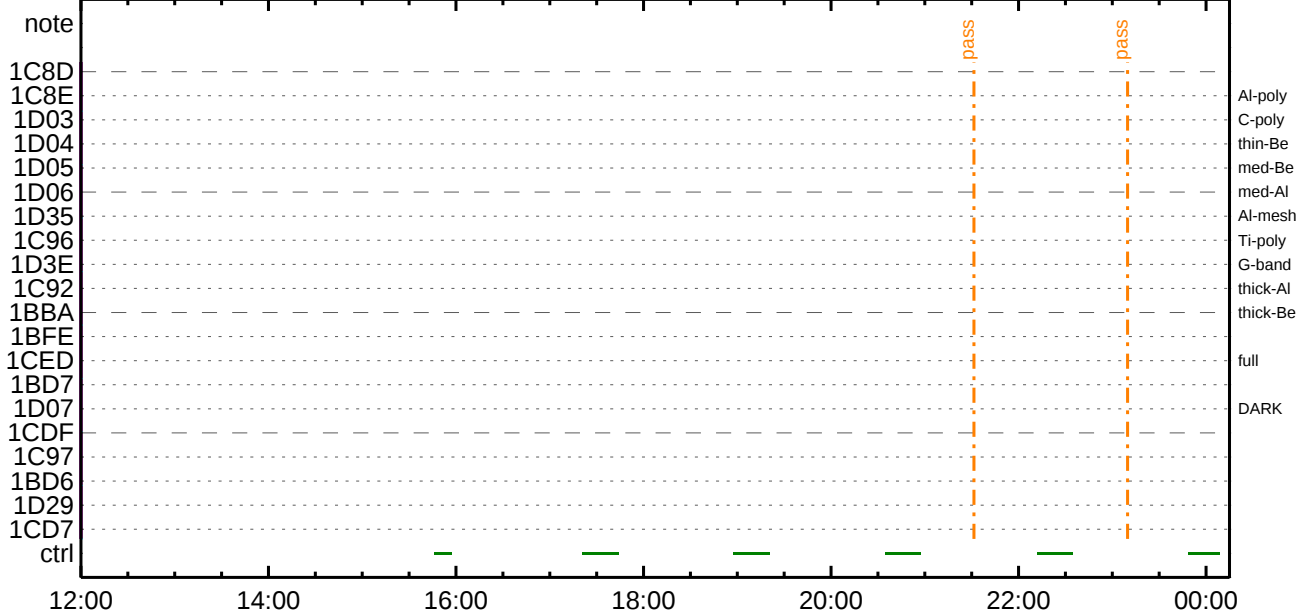
# CMDI #0081 2026/01/19



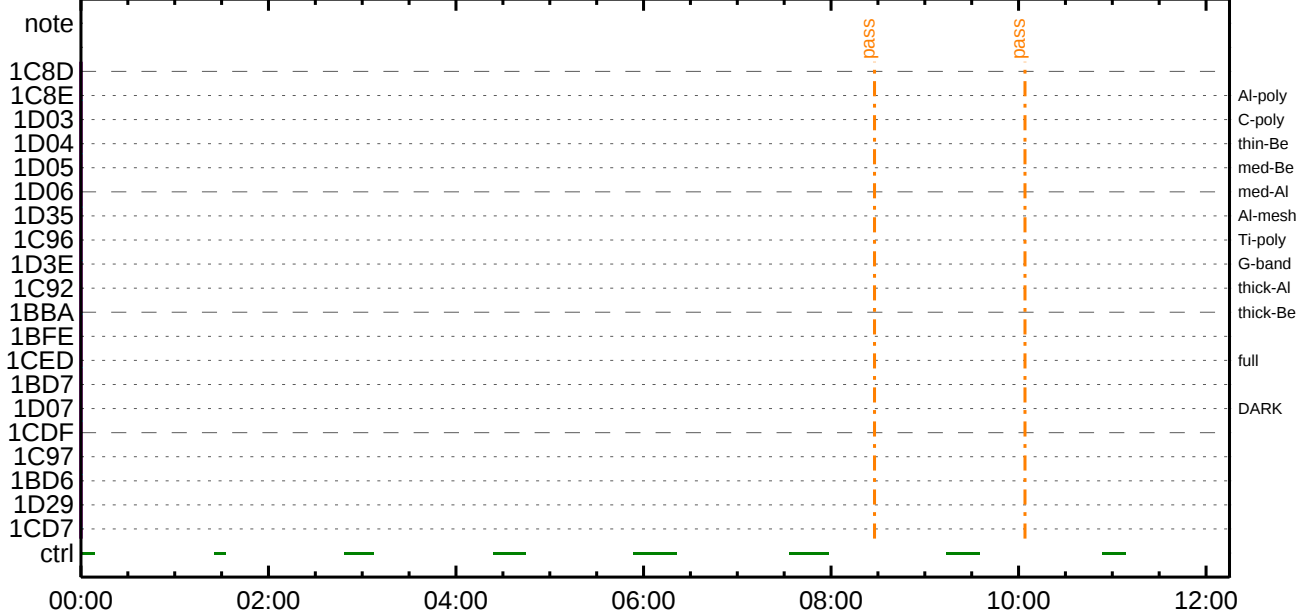
# CMDI #0081 2026/01/20



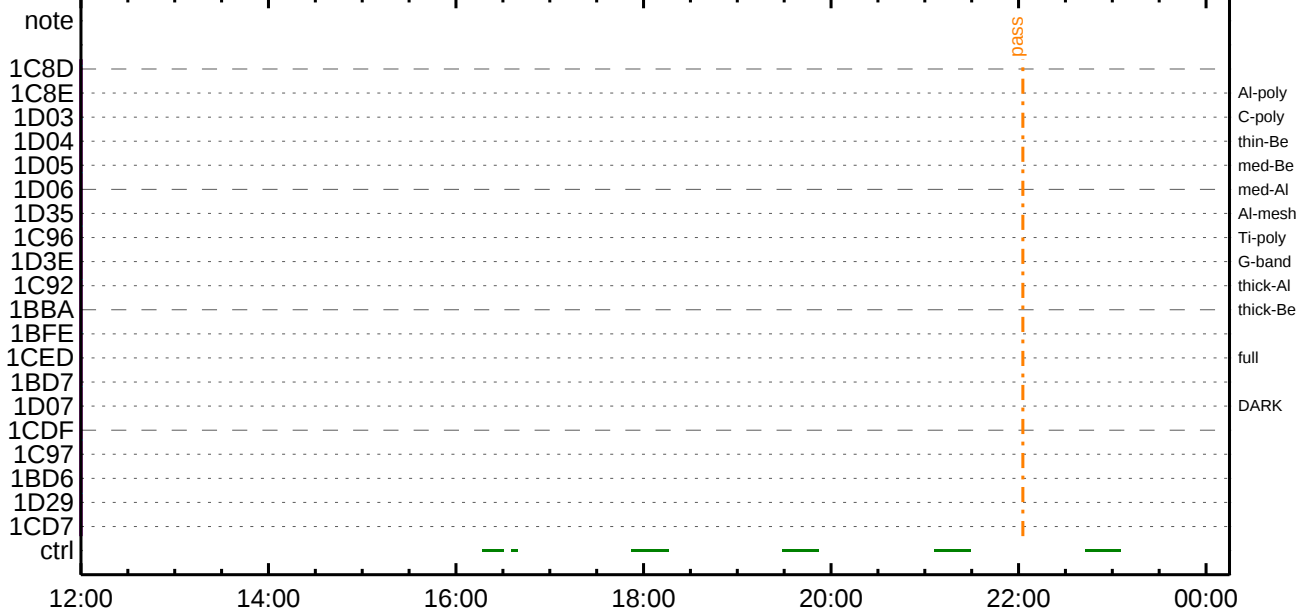
# CMDI #0081 2026/01/20



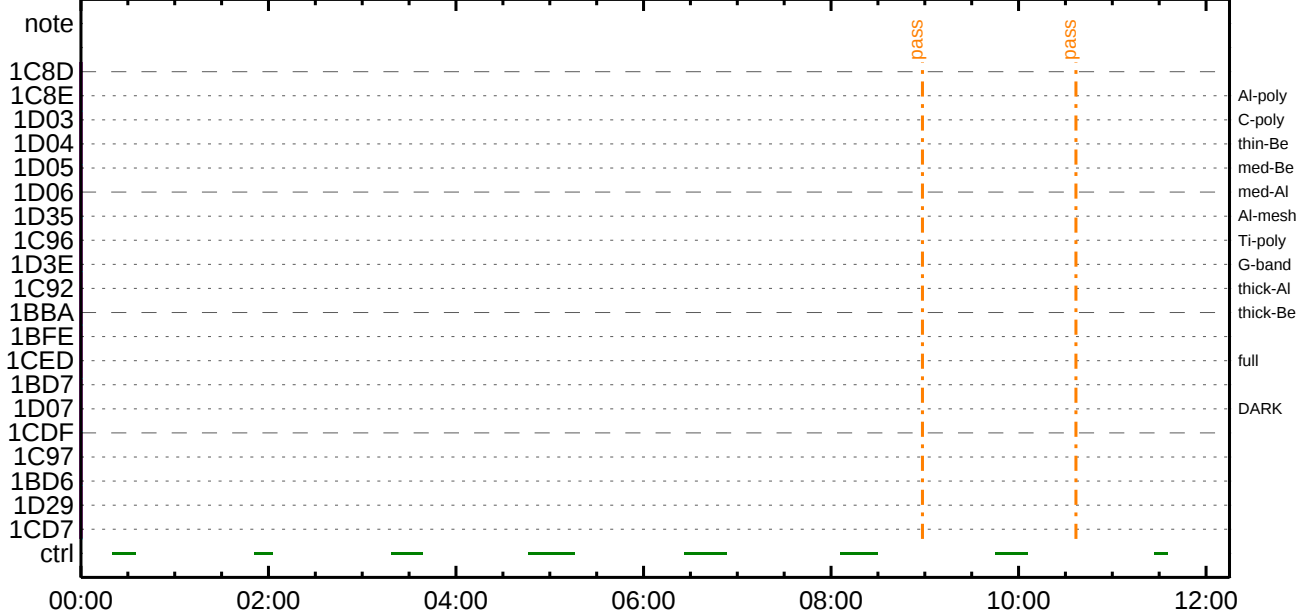
# CMDI #0081 2026/01/21



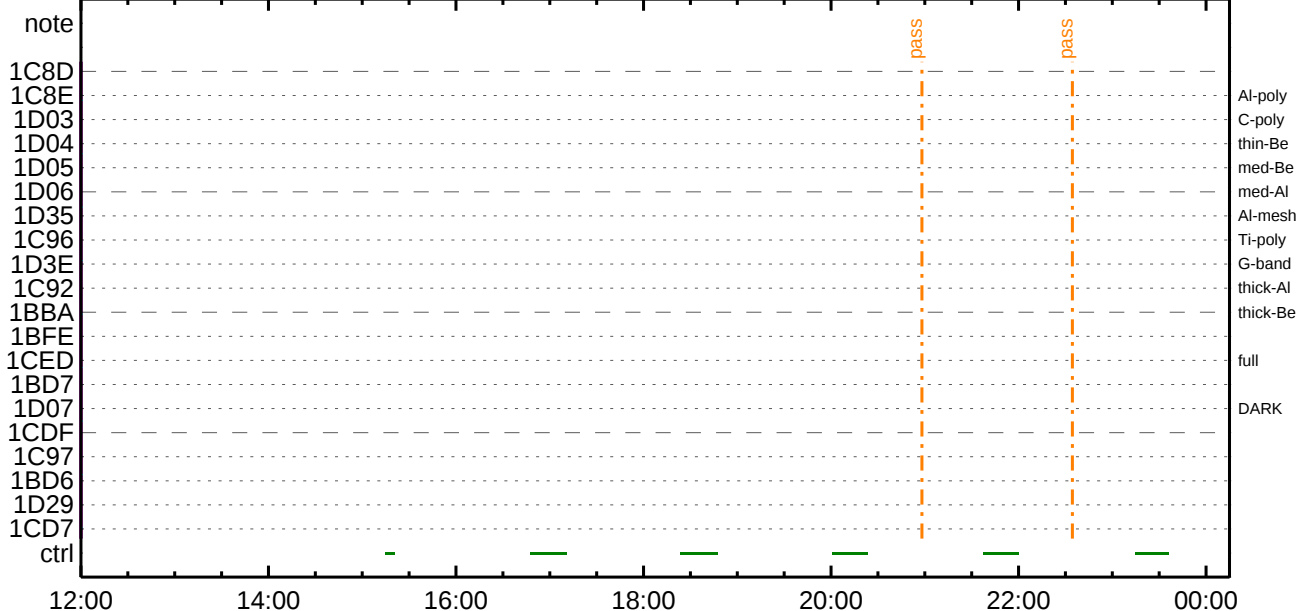
# CMDI #0081 2026/01/21



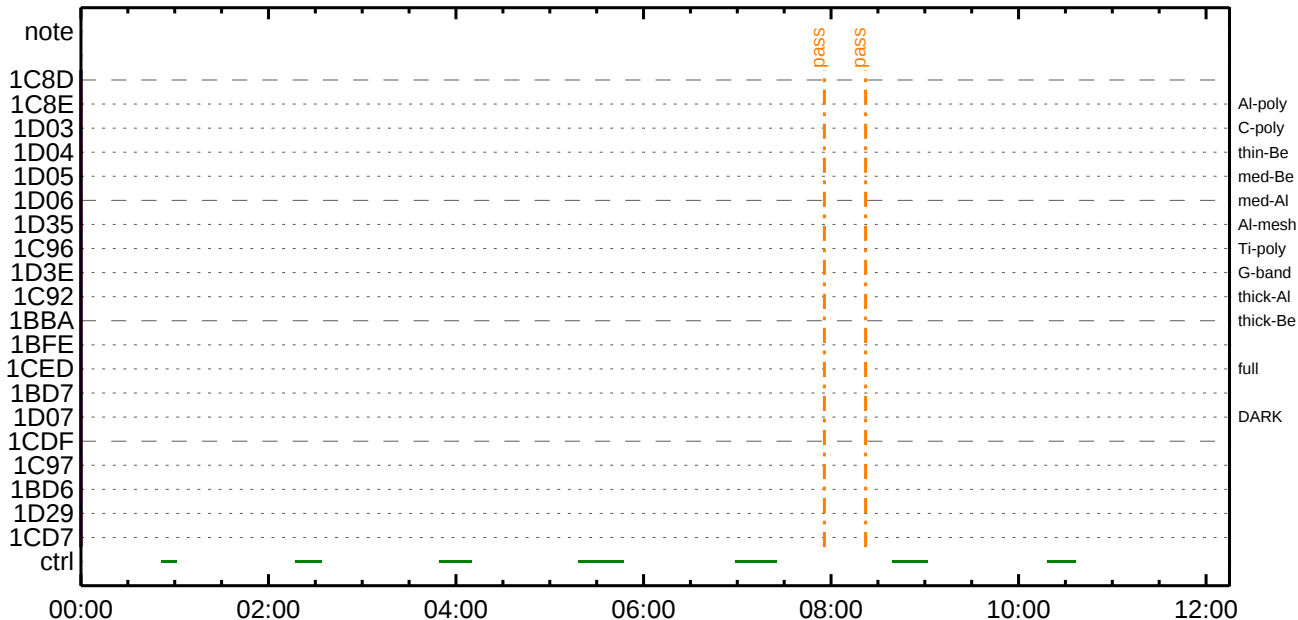
# CMDI #0081 2026/01/22



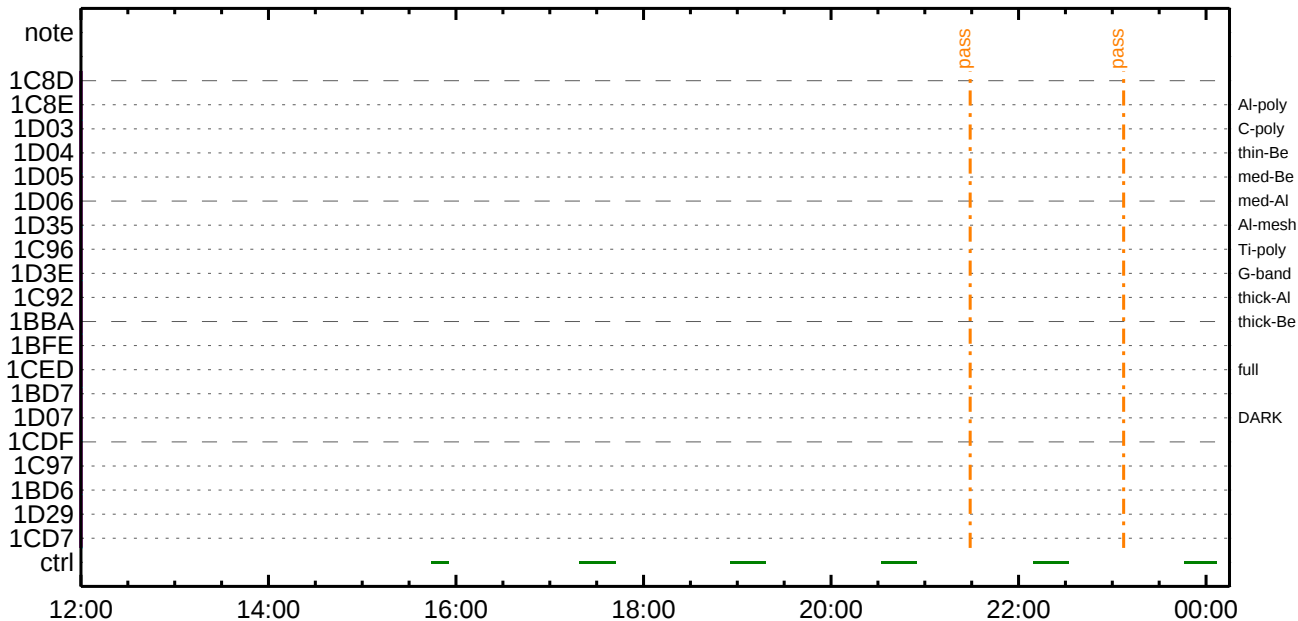
# CMDI #0081 2026/01/22



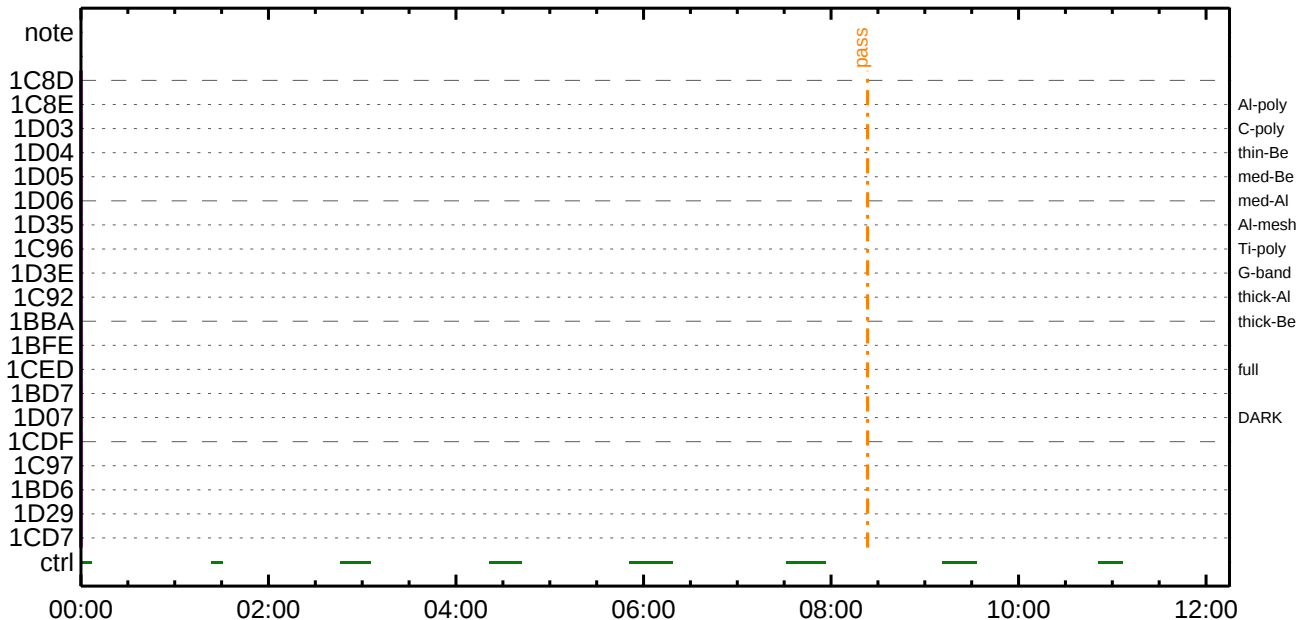
# CMDI #0081 2026/01/23



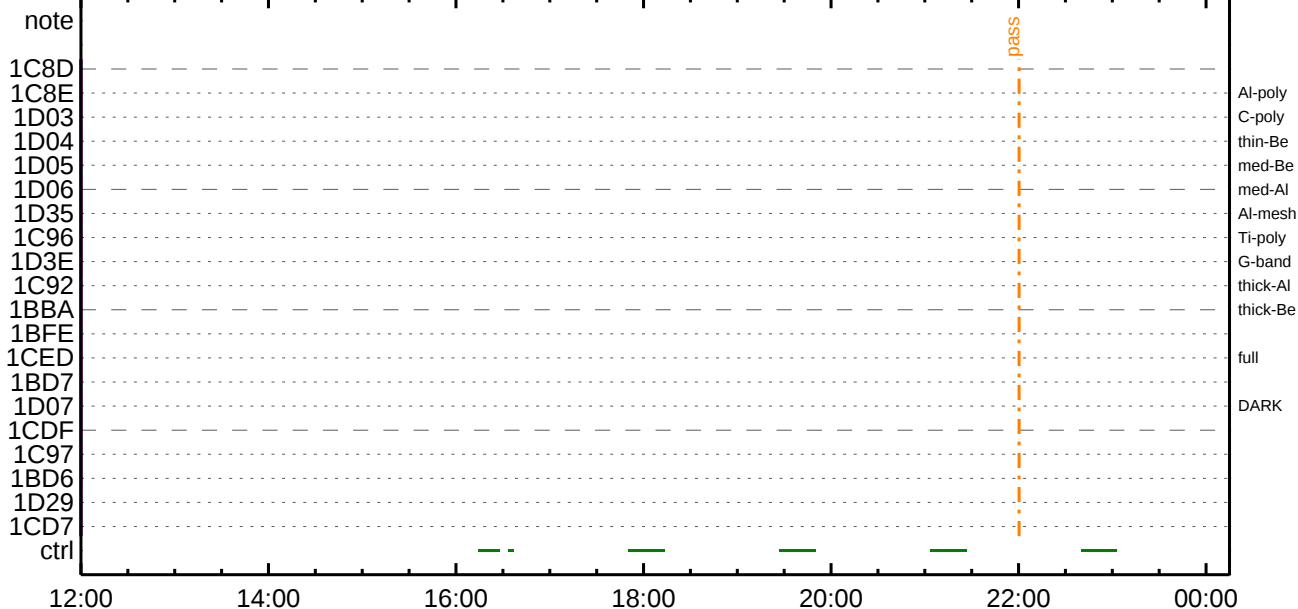
# CMDI #0081 2026/01/23



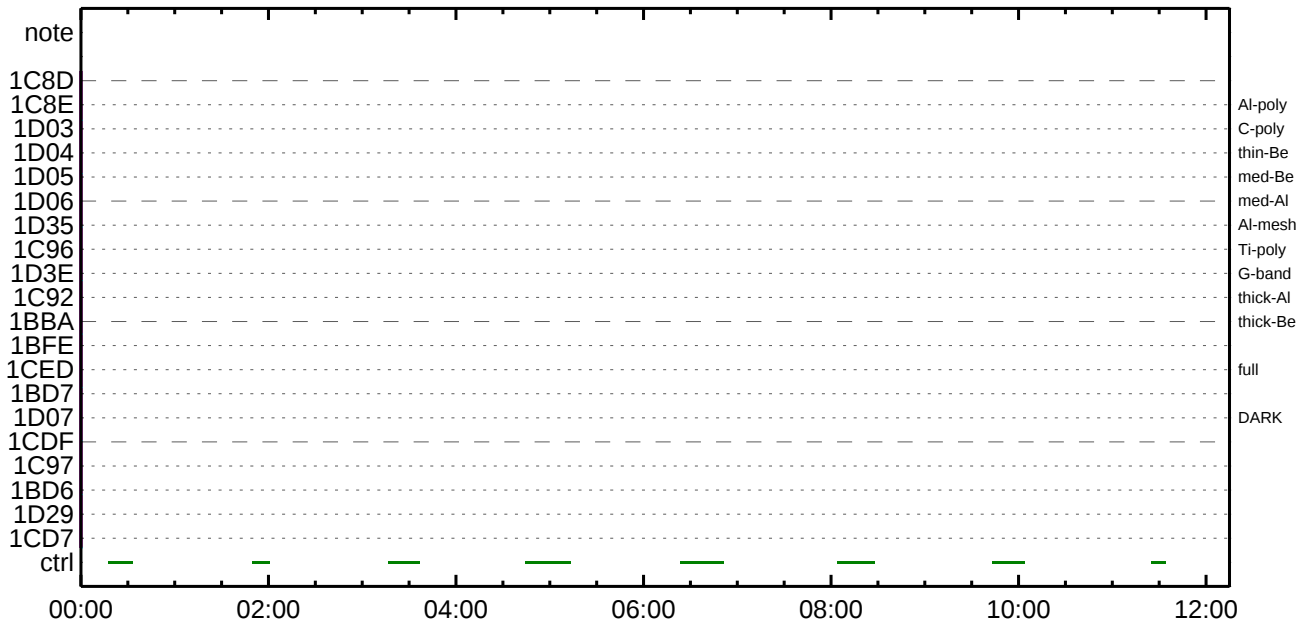
# CMDI #0081 2026/01/24



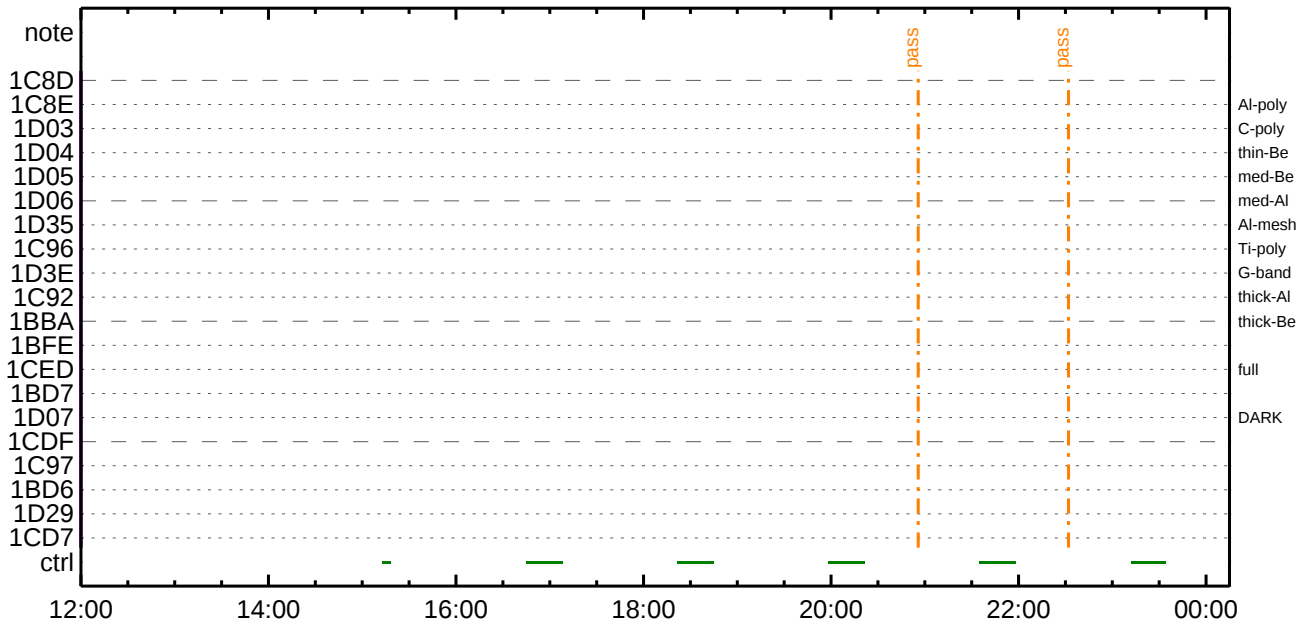
# CMDI #0081 2026/01/24



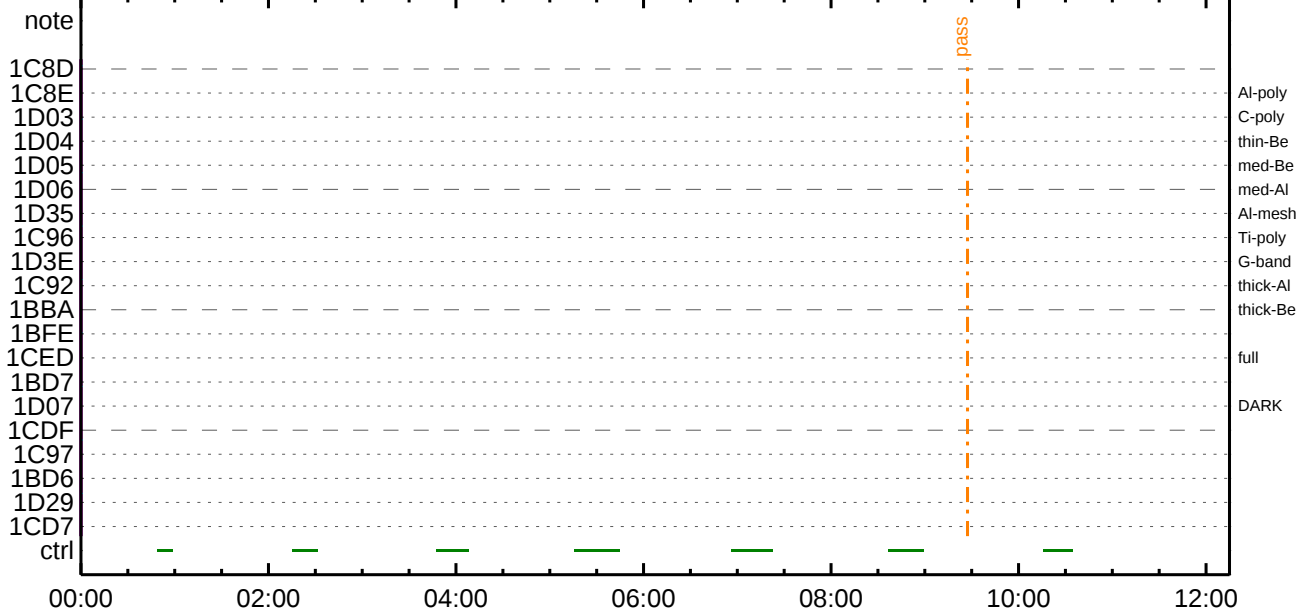
# CMDI #0081 2026/01/25



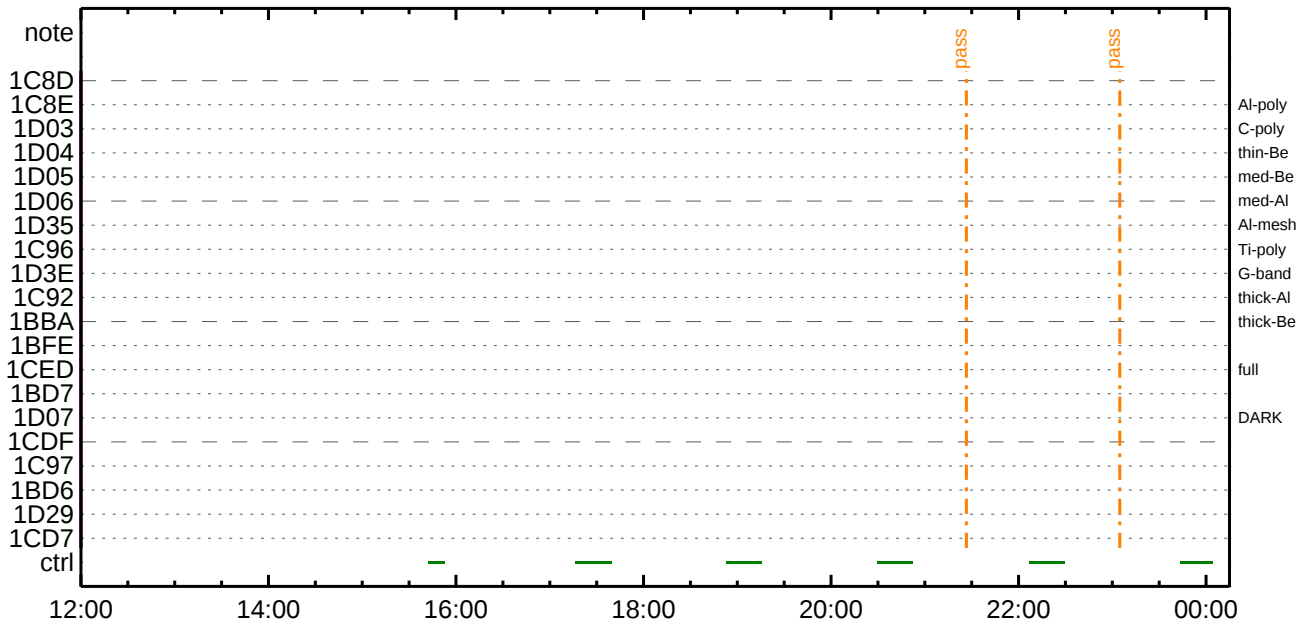
# CMDI #0081 2026/01/25



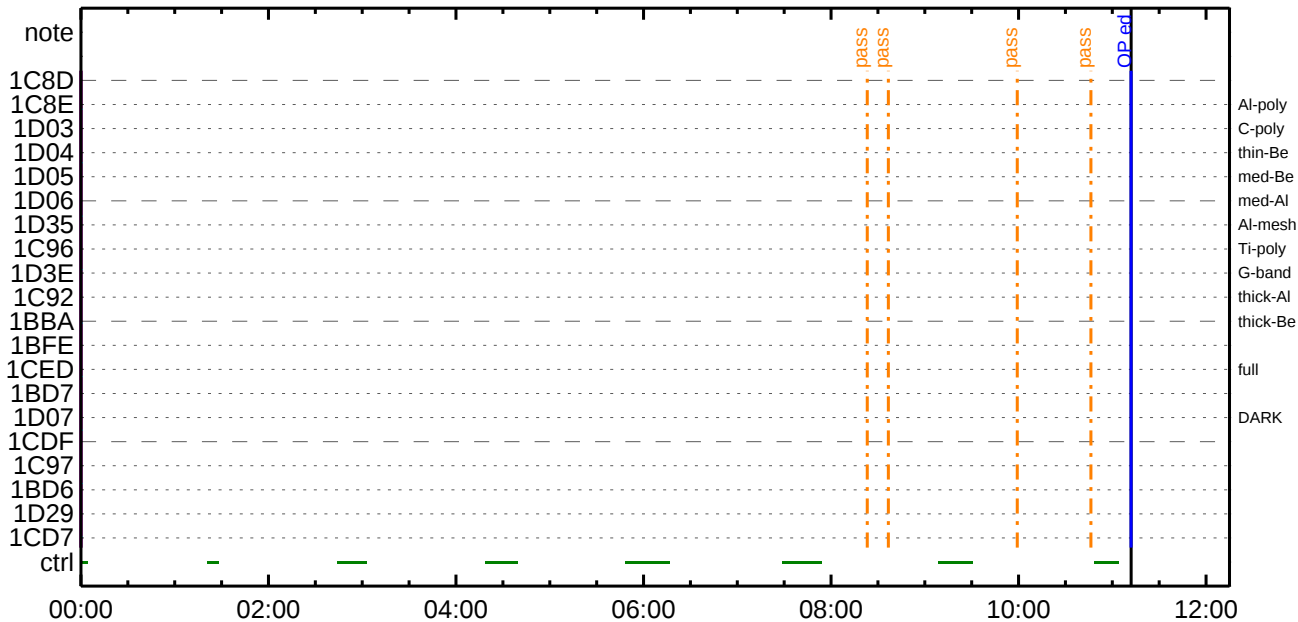
# CMDI #0081 2026/01/26

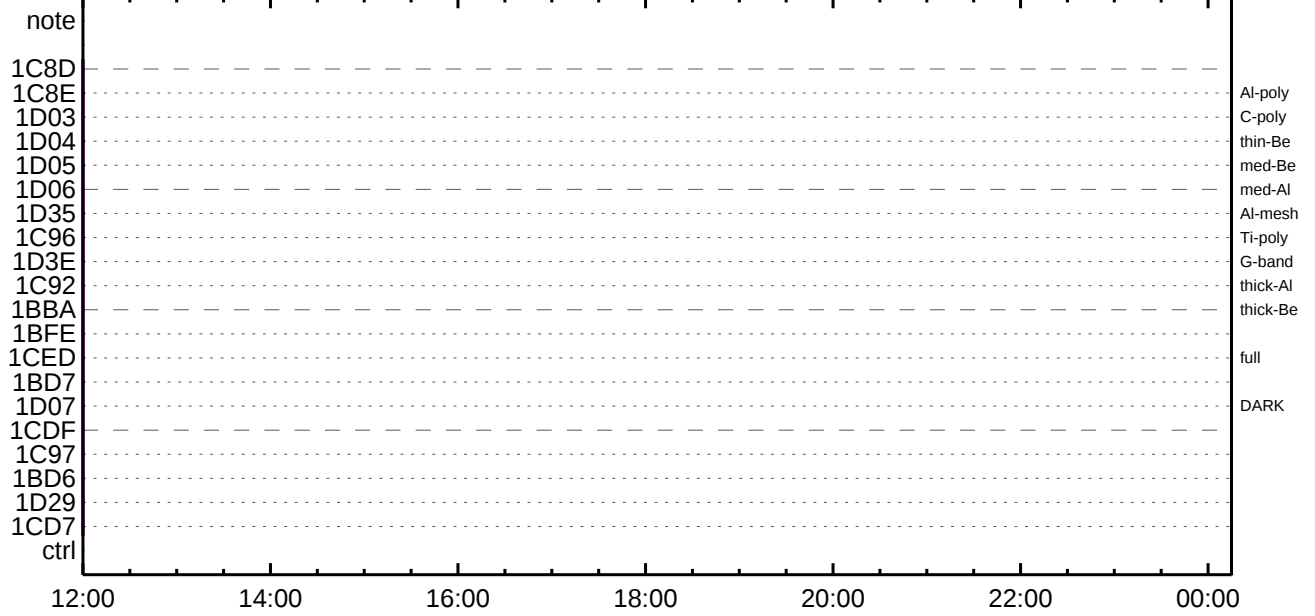


# CMDI #0081 2026/01/26



# CMDI #0081 2026/01/27





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main-746 2026-01-17 11:53:59 194 33 SOLAR-B MAIN //
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main-746 2026-01-17 11:53:59 194 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸPŸóŸÉÁ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçñÄñ•µ°E»Í×ÄÇñÍŸçŸÄŸ×Ÿí;¼ŸÉ;ËËèñµ•ííÉ;ËñÉ¼°ÇÖñ•ñç¼í¹çñí;çÄ®,ùñ¹ñèñPñÇÁ÷ç®ñ•ñËñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGŸí;¼ŸÉ;|ŸÄŸóŸ×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGŸí;¼ŸÉ;ä
0019 . S. OP op-746:OP
0020 ()
0021 . S. OG og-746:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPîî°èŸÄŸóŸ×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
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. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
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. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPñî¼Ë¹ç•ë²îOKñò³îÇ$
0081 C.
0082 . C. ***** °Ë²¼ñî¼Ä´¶Ä°ñËË¬ñ°Á÷ç® (¼âµ-ŸÄŸóŸ×¼è½çñòÄÓÄæñÇ½ñ•ñè¼í¹çñÇñâ) *****
0083 C. DHUŸä;¼ŸÉ;Ë¼Ÿ½,Ÿí;¼ŸÉ;Ëñòíäñ¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. çç[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 UPLOADñ¬Á÷ç®NGñî¼í¹ç;ç°Ë²¼ñîTI-CMDÁ÷ç®ñî¼Ä¹Ôñ•ñËñññ³ñÈ;£

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|      |    |                                                               |    |           |
|------|----|---------------------------------------------------------------|----|-----------|
| 0096 | C. | SET EDUMP I± iYŃY¹ Ç¹ Ō ±³ E; f                               |    |           |
| 0097 | C. |                                                               |    |           |
| 0098 | C. | TIY³YDYOŸE± ÒÄDİ; (UT)                                        |    |           |
| 0099 | +  | TI 2026-01-17 11:01:00.0                                      |    |           |
| 0100 | DC | 01-B3 DHU_OP_STOP                                             |    |           |
| 0101 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0102 | C. |                                                               |    |           |
| 0103 | +  | TI 2026-01-17 11:01:01.0                                      |    |           |
| 0104 | DC | 01-B4 DHU_OP_COPY                                             |    |           |
| 0105 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0106 | C. |                                                               |    |           |
| 0107 | +  | TI 2026-01-17 11:01:01.0                                      |    |           |
| 0108 | DC | 01-B5 DHU_OPOG_COPY                                           |    |           |
| 0109 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0110 | C. |                                                               |    |           |
| 0111 | +  | TI 2026-01-17 11:05:59.5                                      |    |           |
| 0112 | DC | 01-B2 DHU_OP_START                                            |    |           |
| 0113 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0114 | C. |                                                               |    |           |
| 0115 | C. | °Ê²¼ ±İÄê¼İİŃ ±İYÄY\$YÄY¹ àiÜ                                 |    |           |
| 0116 | C. | ÇÇ [HK1_TI_CMD_ENA/DIS]                                       | EQ | ENA       |
| 0117 | C. | ÇÇ [HK1_TI_CMD_NUM]                                           | EQ | 4         |
| 0118 | C. | ÇÇ [HK1_NEXT_EXEC_PIM]                                        | EQ | DHU       |
| 0119 | C. | ÇÇ [HK1_NEXT_EXEC_DC]                                         | EQ | 0xB3      |
| 0120 | C. |                                                               |    |           |
| 0121 | C. | *****                                                         |    |           |
| 0122 | C. | TIİİ°èYÄYóY×                                                  |    |           |
| 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. | ÇÇ [HK1_DMP_TOP_ADRS_1]                                       | EQ | 07        |
| 0129 | C. | ÇÇ [HK1_DMP_TOP_ADRS_0]                                       | EQ | 2B        |
| 0130 | C. | ÇÇ [HK1_DMP_BLOCK_NUM]                                        | EQ | 3         |
| 0131 | C. | ÇÇ [HK1_DMP_REPEAT_NUM]                                       | EQ | 0         |
| 0132 | C. | ÇÇ [HK1_DMA_DMP_PIM]                                          | EQ | DHU       |
| 0133 | +  | DC 01-22 DHU_MODE_CHNG                                        |    |           |
| 0134 | BC | (07 0b f8)                                                    |    |           |
| 0135 | C. | ÇÇ [HK1_PKT_FORM_NO]                                          | EQ | 7         |
| 0136 | C. | ÇÇ [HK1_PKT_GEN_TIME]                                         | EQ | 0.25 s    |
| 0137 | C. | ÇÇ [HK1_S_TLM_BIT_RATE]                                       | EQ | 32k       |
| 0138 | C. | ÇÇ [HK1_X_TLM_BIT_RATE]                                       | EQ | 4M        |
| 0139 | C. | ÇÇ [HK1_DMP_CHK_FLG]                                          | EQ | EXEC      |
| 0140 | C. |                                                               |    |           |
| 0141 | C. | YÄYóY×½ªİ»±ò³İÇ\$                                             |    |           |
| 0142 | C. | ÇÇ [HK1_DMP_CHK_FLG]                                          | EQ | NON       |
| 0143 | C. |                                                               |    |           |
| 0144 | C. | RAM ID=TI_TBL±İ¼È¹Ç•è²İOK±ò³İÇ\$                              |    |           |
| 0145 | C. |                                                               |    |           |
| 0146 | C. | DHUYâ;¼YÈ;È¼Y½,Yİ;¼YÈ;È±òİá±¹                                 |    |           |
| 0147 | +  | DC 01-22 DHU_MODE_CHNG                                        |    |           |
| 0148 | BC | (02 0a f8)                                                    |    |           |
| 0149 | C. | ÇÇ [HK1_PKT_FORM_NO]                                          | EQ | 2         |
| 0150 | C. | ÇÇ [HK1_PKT_GEN_TIME]                                         | EQ | 0.5S      |
| 0151 | C. | ÇÇ [HK1_S_TLM_BIT_RATE]                                       | EQ | 32K       |
| 0152 | C. | ÇÇ [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 2026-01-17 11:05:30.0                                      |    |           |
| 0161 | DC | 07-FC EIS_MODE_MANU                                           |    |           |
| 0162 | BC | (21 02)                                                       |    |           |
| 0163 | +  | TI 2026-01-17 11:05:40.0                                      |    |           |
| 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 2026-01-17 11:05:00.0                                      |    |           |
| 0174 | DC | 07-F0 MDP_XRT_MODE_STBY                                       |    |           |
| 0175 | BC | (c3)                                                          |    |           |
| 0176 | C. | [ ] [HK1_TI_CMD_NUM]                                          | EQ | 1COUNTUP  |
| 0177 | C. |                                                               |    |           |
| 0178 | C. | ***** XRT END *****                                           |    |           |
| 0179 | C. |                                                               |    |           |
| 0180 | C. | ***** MDP 'GÄİ±İ»ö¼Y±ÈÄD±¹±èDCBC•×²è *****                    |    |           |
| 0181 | C. | (¼Ä°İYÓYÄYÈYDYE¼YÇYè±È½¼±¼Ä»Ü±¹±è)                            |    |           |
| 0182 | S. | DC-BC dcbc-402:DCBC                                           |    |           |
| 0183 |    | (MDP_known_event)                                             |    |           |
| 0184 | C. |                                                               |    |           |
| 0185 | C. |                                                               |    |           |
| 0186 | C. | ***** YDY¹•İ Daily±İŃ±È'Ø±¹±èDCBC•×²è *****                   |    |           |
| 0187 | S. | DC-BC dcbc-153:DCBC                                           |    |           |
| 0188 |    | (SPECIAL-CMD_DAILY_OPERATIN_DCB)                              |    |           |
| 0189 | C. |                                                               |    |           |
| 0190 | C. |                                                               |    |           |
| 0191 | C. | ;äLOS¥ÄY\$YÄY¹¼Ä»Ü;ä                                          |    |           |
|      |    |                                                               |    |           |



```
main-747 2026-01-17 11:53:59 169 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŴÁŸ$ŷÃŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸÐŸóŸÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŸçŸÃŸ×Ÿí;¼ŸÉ;ËÈè²µ•íîÊ;ËÈÈ¼°ÇÔñ•ñç¼¹¹Çñİ;çÀ®,ùñ¹ñèñÞñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ÷ç®µ;ON
0016 C. *****
0017 C. °EA, í×ÈÝñäLOSñÞñÇñî»þ´Òðò¹íî,ñ•;çÉÔÍ×ñÈXÁÓONñİ¹ÒñÈñíñÈñññ³ñÈ;£
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç[HK1_XPA_ON/OFF] EQ ON
0025 C. çç[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç[HK1_XMOD_ON/OFF] EQ ON
0027 C. çç[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŸÐŸóŸÉŸíŸÄŸŸ~¾ÔÃÖñ¬°ÄÄêñ•ñççé;ç°Ê²¼ñî°EA,¼ê½Çñðò¼Ä¹Òñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EA,
0033 C. *****
0034 C. ° RESTART;ÊPT1;Ëñ•ñçç¼¹¹Çñİ;ç°Ê²¼ñî¼Ä¹Òññ°;çDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EA,³«»î;ä
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ò,;¼Ú)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0045 C.
0046 . C. ;ãŸçŸóŸEŸEÛÄÜÂØ;ÊÄ•Ä°²óÈò;Ë,ãñî°EA,°E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ò,;¼Ú)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°EA,ñ¬¼«E°Ää»ßñ•ñçç,ã;ç°Ê²¼ñðò¼Ä¹Òñ¹ñè;£
0055 C. ŸçŸóŸEŸEÛÄÜÂØñÄ•Ä°²óÈòñ¬¼áñ¼¹¹Çñİ´°î»ñ¹ñèñÞñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EA,
0059 C. *****
0060 C. ° RESTART;ÊPT2;Ëñ•ñçç¼¹¹Çñİ;ç°Ê²¼ñî¼Ä¹Òññ°;çDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EA,³«»î;ä
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ò,;¼Ú)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0071 C.
0072 . C. ;ãŸçŸóŸEŸEÛÄÜÂØ;ÊÄ•Ä°²óÈò;Ë,ãñî°EA,°E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ò,;¼Ú)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ò,;¼Ú)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ò,;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°EA,Ää»ß;çXÁ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EA,Ää»ß;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç[HK1_REP_STA/STP] EQ STOP
0087 C. çç[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÁ÷ç®µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç[HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç[HK1 XPA ON/OFF] EO OFF
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0096 C.
0097 C.
0098 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE STATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCs Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_CHG_ENA
0131 BC (20)
0132 . C. Verify EIS_MODE_CHG_FLG is ENA
0133 +. DC 07-FC EIS_MODE_MANU
0134 BC (21 02)
0135 . C. Verify EIS in MANUAL mode
0136 . C. Estimated OBSTBL upload time is 14s
0137 C. *****
0138 C. EIS START OBSTBL LOAD
0139 C. *****
0140 . S. RAM ram-820:EIS_OBSTBL
0141 ( )
0142 +. DC 07-FC EIS_DUMP_OBSTBL
0143 BC (07 07 07 00 00 70 00)
0144 C.
0145 C. Execute, after the success of OBSTBL upload.
0146 C. Set EIS TI-commands
0147 +. TI 2026-01-17 11:05:50.0
0148 DC 07-FC EIS_MODE_CHG_ENA
0149 BC (20)
0150 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0151 C. *****
0152 C. EIS END OBSTBL LOAD
0153 C. *****
0154 C.
0155 . C. ***** MDP 'ûÄîñî»ö¼ÝñÄðñ¹ñèDCBC•×²è *****
0156 C. (¼â°îÝÖÝÄÝÈÞÝÈÝÄÝÇÝèñÈ½¼ñ¼Ä»Üñ¹ñè)
0157 . S. DC-BC dcbc-402:DCBC
0158 (MDP_known_event)
0159 C.
0160 C.
0161 . C. ***** ¥Ð¥¹•İ Daily±;İññÈ'Øñ¹ñèDCBC•×²è *****
0162 . S. DC-BC dcbc-153:DCBC
0163 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164 C.
0165 C.
0166 . C. ;äLOS¥Á¥$¥Ä¥~¼Ä»Ü;ä
0167 C.
0168 . C. ***** LOS *****
0169 C.

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(a) Spacecraft Operation Procedure (real-commands)

```
main-748 2026-01-17 11:53:59 100 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸÐŸóŸÉÄ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;Ēñ¿ñÄñ•µ°Ēñİ×ÄÇñİŸçŸÄŸ×Ÿí;¼ŸÉ;ĒĒè½µ•ííĒ;ĒñĒ¼°ÇÖñ•ñ¿¼ı¹Çñİ;çÄ®,ùñ¹ñĒñÐñÇÄ÷¿®ñ•ñĒñññ³ñĒ;ñ
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 +. DC 07-F0 MDP_XRT_CTRL_MANU
0020 BC (c1)
0021 +. DC 07-F0 MDP_XRT_MODE_STBY
0022 BC (c3)
0023 . C. ----- Success Verify ? OK / NG____
0024 C.
0025 C. XRT Obs. Table Upload
0026 . S. RAM ram-291:MDP_OBS_X
0027 ()
0028 C.
0029 +. DC 07-F0 MDP_DUMP_XRTTBL
0030 BC (84 07 00 00 00 3a d4)
0031 . C. ----- Comparison Check ? OK / ERR ____
0032 C.
0033 C.
0034 +. DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 01 b1 b1 04 04)
0036 +. DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 02 b1 b1 08 08)
0038 +. DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 03 b1 b1 08 08)
0040 +. DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 04 b1 b1 06 06)
0042 +. DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 05 85 83 06 06)
0044 +. DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 06 85 83 06 06)
0046 +. DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 07 85 83 08 08)
0048 +. DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 08 80 80 20 20)
0050 +. DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 09 80 80 20 08)
0052 +. DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0a 80 80 08 20)
0054 +. DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0f 80 80 06 06)
0056 +. DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 10 80 80 08 08)
0058 +. DC 07-F0 MDP_XRT_FLD_ENA
0059 BC (d8)
0060 +. DC 07-F0 MDP_XRT_FLRCTRL_ENA
0061 BC (c8)
0062 +. DC 07-F0 MDP_XRT_ARS_DIS
0063 BC (d5)
0064 +. DC 07-F0 MDP_XRT_AEC_RESET
0065 BC (d0)
0066 +. DC 07-F0 MDP_XRT_FLD_RESET
0067 BC (da)
0068 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0069 BC (c4 09)
0070 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0071 BC (c5 0e)
0072 . C. ----- Success Verify ? OK / NG ____
0073 C.
0074 C.
0075 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0076 C.
0077 +. DC 07-F0 MDP_XRT_MODE_OBSV
0078 BC (c2)
0079 +. TI 2026-01-17 11:05:02.0
0080 DC 07-F0 MDP_XRT_MODE_OBSV
0081 BC (c2)
0082 . C. ----- Success Verify ? OK / NG ____
0083 C.
0084 C. ***** XRT END *****
0085 C.
0086 . C. ***** MDP 'ûÄîñİ»ö¼ŸñĒÄñ¹ñĒDCBC•×²è *****
0087 C. (¾â°îŸóŸÄŸĒŸÐŸĒŸĒŸâŸçŸĒñĒĒ¼¾ññ¼Ä»Üñ¹ñĒ)
0088 . S. DC-BC dcbc-402:DCBC
0089 (MDP_known_event)
0090 C.
0091 C.
0092 . C. ***** ŸÐŸ¹•İ Daily÷¿İññĒ'Øñ¹ñĒDCBC•×²è *****
0093 . S. DC-BC dcbc-153:DCBC
0094 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0095 C.
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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 \*\*\*

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/01/17 | 11:15:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 11:15:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 11:15:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/01/17 | 11:16:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 03 74 01 db |
| 2026/01/17 | 11:16:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/01/17 | 11:16:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/01/17 | 11:16:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/01/17 | 11:16:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/01/17 | 11:16:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/17 | 11:18:56.0 | XRT_QT_PROG_SET_435_OG [0x1b3]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0c          |
| 2026/01/17 | 11:18:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/01/17 | 11:19:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/17 | 15:48:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 15:48:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 15:48:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/17 | 15:48:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/17 | 15:51:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/17 | 16:00:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/17 | 16:01:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/17 | 17:23:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 17:23:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 17:23:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/17 | 17:23:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/17 | 17:26:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/17 | 17:47:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/17 | 17:48:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/17 | 18:01:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 18:01:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 18:01:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/01/17 | 18:01:30.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2026/01/17 | 18:01:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2026/01/17 | 18:01:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2026/01/17 | 18:01:52.0 | XRT_ARS_DIS_401_OG [0x191]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/01/17 | 18:04:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 06          |
| 2026/01/17 | 18:04:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/17 | 18:11:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 18:11:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/17 | 18:11:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/01/17 | 18:11:30.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 03 74 01 db |
| 2026/01/17 | 18:11:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/01/17 | 18:11:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/01/17 | 18:11:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/01/17 | 18:11:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/01/17 | 18:11:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/17 | 18:14:26.0 | XRT_QT_PROG_SET_435_OG [0x1b3]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0c          |
| 2026/01/17 | 18:14:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/01/17 | 18:14:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2026/01/17 | 19:00:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/17 | 19:00:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 19:00:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 19:00:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/17 | 19:03:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/17 | 19:23:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/17 | 19:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2026/01/17 | 20:36:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/17 | 20:36:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 20:36:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 20:36:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/17 | 20:39:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/17 | 21:00:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/17 | 21:01:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2026/01/17 | 22:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/17 | 22:13:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 22:13:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 22:13:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/17 | 22:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/17 | 22:37:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/17 | 22:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2026/01/17 | 23:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/17 | 23:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 23:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/17 | 23:51:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/17 | 23:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/18 | 00:11:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/18 | 00:12:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2026/01/18 | 01:27:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 01:27:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 01:27:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 01:27:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/18 | 01:30:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/18 | 01:35:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/18 | 01:36:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2026/01/18 | 02:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 02:50:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 02:50:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 02:50:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/18 | 02:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/18 | 03:10:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/18 | 03:11:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                     |   |       |                |
| 2026/01/18 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 04:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/01/18 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2026/01/18 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2026/01/18 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
|            |            |                                   | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |

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|            |            |                                   |                     |   |       |             |          |
|------------|------------|-----------------------------------|---------------------|---|-------|-------------|----------|
| 2026/01/18 | 04:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |          |
| 2026/01/18 | 04:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |          |
| 2026/01/18 | 04:02:56.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4          | 02       |
| 2026/01/18 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5          | 0e       |
| 2026/01/18 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |          |
| 2026/01/18 | 04:26:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 04:26:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 04:26:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |          |
| 2026/01/18 | 04:26:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |          |
| 2026/01/18 | 04:29:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |          |
| 2026/01/18 | 04:47:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |             |          |
| 2026/01/18 | 04:48:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |          |
| 2026/01/18 | 05:32:00.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 05:32:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 05:32:04.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22          | ff aa 00 |
| 2026/01/18 | 05:32:24.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9          |          |
| 2026/01/18 | 05:32:26.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9          |          |
| 2026/01/18 | 05:32:28.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |          |
| 2026/01/18 | 05:32:30.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4          | 06       |
| 2026/01/18 | 05:32:32.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |          |
| 2026/01/18 | 05:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 05:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 05:39:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22          | fe 97 00 |
| 2026/01/18 | 05:40:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 02 03 74 01 | db       |
| 2026/01/18 | 05:40:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8          |          |
| 2026/01/18 | 05:40:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8          |          |
| 2026/01/18 | 05:40:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0          |          |
| 2026/01/18 | 05:40:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |          |
| 2026/01/18 | 05:40:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |          |
| 2026/01/18 | 05:42:56.0 | XRT_QT_PROG_SET_436_OG [0x1b4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4          | 09       |
| 2026/01/18 | 05:42:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5          | 0e       |
| 2026/01/18 | 05:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |          |
| 2026/01/18 | 05:56:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 05:56:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 05:56:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |          |
| 2026/01/18 | 05:56:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |          |
| 2026/01/18 | 05:59:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |          |
| 2026/01/18 | 06:24:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |             |          |
| 2026/01/18 | 06:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |          |
| 2026/01/18 | 07:36:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 07:36:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 07:36:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |          |
| 2026/01/18 | 07:36:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8          |          |
| 2026/01/18 | 07:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9          |          |
| 2026/01/18 | 08:01:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |             |          |
| 2026/01/18 | 08:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |          |
| 2026/01/18 | 09:16:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |
| 2026/01/18 | 09:16:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |          |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2026/01/18 | 09:16:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/18 | 09:16:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/18 | 09:19:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/18 | 09:37:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2026/01/18 | 09:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 10:56:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 10:56:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 10:56:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/18 | 10:56:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/18 | 10:59:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/18 | 11:10:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2026/01/18 | 11:11:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 16:19:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 16:19:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 16:19:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/18 | 16:19:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/18 | 16:22:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/18 | 16:42:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2026/01/18 | 16:43:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 17:54:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 17:54:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 17:54:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/18 | 17:54:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2026/01/18 | 17:57:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2026/01/18 | 18:18:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 18:18:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 18:18:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2026/01/18 | 18:18:30.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2026/01/18 | 18:18:48.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2026/01/18 | 18:18:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2026/01/18 | 18:18:52.0 | XRT_ARS_DIS_401_OG [0x191]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/01/18 | 18:21:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 06          |
| 2026/01/18 | 18:21:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 18:28:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 18:28:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 18:28:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2026/01/18 | 18:28:30.0 | AOCS_ORe-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 02 03 74 01 db |
| 2026/01/18 | 18:28:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2026/01/18 | 18:28:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2026/01/18 | 18:28:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2026/01/18 | 18:28:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2026/01/18 | 18:28:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2026/01/18 | 18:31:26.0 | XRT_QT_PROG_SET_436_OG [0x1b4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 09          |
| 2026/01/18 | 18:31:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0e          |
| 2026/01/18 | 18:31:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2026/01/18 | 19:31:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 19:31:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2026/01/18 | 19:31:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/01/18 | 19:31:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/18 | 19:34:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/18 | 19:54:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/18 | 19:55:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/18 | 21:08:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/18 | 21:08:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/18 | 21:08:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/18 | 21:08:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/18 | 21:11:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/18 | 21:31:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/18 | 21:32:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/18 | 22:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/18 | 22:45:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/18 | 22:45:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/18 | 22:45:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/18 | 22:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/18 | 23:07:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/18 | 23:08:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/19 | 00:22:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 00:22:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 00:22:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/19 | 00:22:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/19 | 00:25:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/19 | 00:36:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/19 | 00:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/19 | 01:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 01:52:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 01:52:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/19 | 01:52:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/19 | 01:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/19 | 02:05:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/19 | 02:06:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/19 | 03:21:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 03:21:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 03:21:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/19 | 03:21:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/19 | 03:24:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/19 | 03:41:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/19 | 03:42:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/19 | 04:00:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 04:00:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 04:00:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/01/19 | 04:00:30.0 | AOCs_ORe-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2026/01/19 | 04:00:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/01/19 | 04:00:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/01/19 | 04:00:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/01/19 | 04:00:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/01/19 | 04:00:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/19 | 04:03:26.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |
| 2026/01/19 | 04:03:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |

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|            |            |                                   |                     |   |       |    |             |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2026/01/19 | 04:03:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0e          |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2026/01/19 | 04:48:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 04:48:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 04:48:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2026/01/19 | 04:48:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2026/01/19 | 04:51:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2026/01/19 | 05:18:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2026/01/19 | 05:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2026/01/19 | 06:03:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 06:03:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 06:03:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2026/01/19 | 06:03:48.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |             |
| 2026/01/19 | 06:03:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |             |
| 2026/01/19 | 06:03:52.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2026/01/19 | 06:03:54.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 06          |
| 2026/01/19 | 06:03:56.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2026/01/19 | 06:10:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 06:10:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 06:10:28.0 | XRT_FOCUS_POSITION_414_OG [0x19e] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2026/01/19 | 06:10:30.0 | AOCs_Ore-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 02 | 03 74 01 db |
| 2026/01/19 | 06:10:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2026/01/19 | 06:10:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2026/01/19 | 06:10:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2026/01/19 | 06:10:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2026/01/19 | 06:10:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2026/01/19 | 06:13:26.0 | XRT_QT_PROG_SET_436_OG [0x1b4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 09          |
| 2026/01/19 | 06:13:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0e          |
| 2026/01/19 | 06:13:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2026/01/19 | 06:28:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 06:28:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 06:28:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2026/01/19 | 06:28:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2026/01/19 | 06:31:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2026/01/19 | 06:55:30.5 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2026/01/19 | 06:56:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2026/01/19 | 08:08:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 08:08:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 08:08:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2026/01/19 | 08:08:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2026/01/19 | 08:11:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2026/01/19 | 08:32:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2026/01/19 | 08:33:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2026/01/19 | 09:48:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 09:48:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2026/01/19 | 09:48:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2026/01/19 | 09:48:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2026/01/19 | 09:51:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2026/01/19 | 10:08:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |

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|            |            |                                      |   |       |                |  |  |  |  |
|------------|------------|--------------------------------------|---|-------|----------------|--|--|--|--|
| 2026/01/19 | 10:09:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/01/19 | 11:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 11:29:32.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 11:29:34.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2026/01/19 | 11:29:36.0 | XRT_PREFLR_STRT_431_OG [0x1af]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/01/19 | 11:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/01/19 | 11:37:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2026/01/19 | 11:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/01/19 | 15:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 15:17:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 15:17:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2026/01/19 | 15:17:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/01/19 | 15:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/01/19 | 15:24:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2026/01/19 | 15:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/01/19 | 16:50:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 16:50:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 16:50:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2026/01/19 | 16:50:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2026/01/19 | 16:53:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2026/01/19 | 17:13:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2026/01/19 | 17:14:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/01/19 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 17:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]    |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2026/01/19 | 18:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098]    |   |       |                |  |  |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2026/01/19 | 18:00:18.0 | XRT_FLD_DIS_409_OG [0x199]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |  |  |  |  |
| 2026/01/19 | 18:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |  |  |  |  |
| 2026/01/19 | 18:00:22.0 | XRT_ARS_DIS_401_OG [0x191]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/01/19 | 18:02:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 06          |  |  |  |  |
| 2026/01/19 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/01/19 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 18:09:58.0 | XRT_FOCUS_RECALIBRATE_407_OG [0x197] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |  |  |  |  |
| 2026/01/19 | 18:10:00.0 | AOCs_Ore-point_Start_3_OG [0x099]    |   |       |                |  |  |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 02 03 74 01 db |  |  |  |  |
| 2026/01/19 | 18:13:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2026/01/19 | 18:14:18.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |  |  |  |  |
| 2026/01/19 | 18:14:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |  |  |  |  |
| 2026/01/19 | 18:14:22.0 | XRT_AEC_RESET_448_OG [0x1c0]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0             |  |  |  |  |
| 2026/01/19 | 18:14:24.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |  |  |
| 2026/01/19 | 18:14:26.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2026/01/19 | 18:14:28.0 | XRT_QT_PROG_SET_436_OG [0x1b4]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 09          |  |  |  |  |
| 2026/01/19 | 18:14:30.0 | XRT_FL_PROG_SET_439_OG [0x1b7]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 0e          |  |  |  |  |
| 2026/01/19 | 18:14:32.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2026/01/19 | 18:26:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 18:26:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2026/01/19 | 18:26:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2026/01/19 | 18:26:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/01/19 | 18:29:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/19 | 18:49:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/19 | 18:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/19 | 20:03:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 20:03:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 20:03:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/19 | 20:03:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/19 | 20:06:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/19 | 20:26:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/19 | 20:27:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/19 | 21:40:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 21:40:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 21:40:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/19 | 21:40:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/19 | 21:43:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/19 | 22:03:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/19 | 22:04:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/19 | 23:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 23:17:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/19 | 23:17:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/19 | 23:17:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/19 | 23:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/19 | 23:38:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/19 | 23:39:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 00:54:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 00:54:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 00:54:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 00:54:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/20 | 00:57:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/20 | 01:03:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/20 | 01:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 02:19:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 02:19:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 02:19:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 02:19:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/20 | 02:22:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/20 | 02:36:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/20 | 02:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 03:52:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 03:52:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 03:52:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 03:52:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/20 | 03:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/20 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 03:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 03:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/01/20 | 04:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2026/01/20 | 04:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/01/20 | 04:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/01/20 | 04:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2026/01/20 | 04:00:24.0 | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
|            |            | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/01/20 | 04:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 04:02:56.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |
| 2026/01/20 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/01/20 | 04:13:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/20 | 04:14:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 05:21:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 05:21:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 05:21:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 05:21:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/20 | 05:24:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/20 | 05:50:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/20 | 05:51:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 06:00:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 06:00:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 06:00:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2026/01/20 | 06:01:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2026/01/20 | 06:01:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2026/01/20 | 06:01:22.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/01/20 | 06:01:24.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 06          |
| 2026/01/20 | 06:01:26.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 06:09:58.0 | XRT_FOCUS_POSITION_414_OG [0x19e] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2026/01/20 | 06:10:00.0 | AOCs_Ore-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 03 74 01 db |
| 2026/01/20 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2026/01/20 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2026/01/20 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2026/01/20 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2026/01/20 | 06:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 06:12:56.0 | XRT_QT_PROG_SET_436_OG [0x1b4]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |
| 2026/01/20 | 06:12:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0e          |
| 2026/01/20 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 07:01:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 07:01:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 07:01:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 07:01:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/20 | 07:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/20 | 07:27:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/20 | 07:28:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 08:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 08:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2026/01/20 | 08:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2026/01/20 | 08:41:06.0 | XRT_PREFLR_STRT_431_OG [0x1af]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2026/01/20 | 08:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2026/01/20 | 09:04:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2026/01/20 | 09:05:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2026/01/20 | 10:20:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |

[illegible]