

# XRT Timeline to be uploaded on 2023/01/31

Period: 2023/01/31 12:14:00 - 2023/02/09 12:04:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

| XOB #1B8F: CCD Monitor During Bakeout - G-band 1ms - 1kx1k - Q90 - 1st Quadrant - Al/mesh(512ms), Al/Poly(1443ms) - w leak image-1msCCD |                |                         |       |      |       |       |  |     |                    |              |       |                     |
|---|----------------|-------------------------|-------|------|-------|-------|--|-----|--------------------|--------------|-------|---------------------|
| Term  |                | Pointing (x, y)         |       |      |       |       | Comment                                      |     |                    |              |       |                     |
| 02/01 12:03:00 - 02/01 12:09:54   |                | Fixed ( -528.4, -528.4) |       |      |       |       | # XRT post-bakeout quadrant observations 1/4 |     |                    |              |       |                     |
| <b>PROG= 05 1-time(s)</b>   |                |                         |       |      |       |       |  |     |                    |              |       |                     |
| └─ Subr= 1 1-time(s) 2.0sec   |                |                         |       |      |       |       |  |     |                    |              |       |                     |
| └─ Seqn= 51 1-time(s) 2.0sec  |                |                         |       |      |       |       |  |     |                    |              |       |                     |
|   | Open/G-band    | Open/G-band             | open  | Safe | Norm  | 1ms   | Obs  | 1x1 | 1024x1024          | (1536, 1536) | Q=90  | 0 0 2.0sec          |
|   | Open/G-band    | Open/G-band             | open  | Safe | Norm  | 1ms   | Obs  | 1x1 | 1024x1024          | (1536, 1536) | Q=90  | 0 0 2.0sec          |
|   | Open/thick-Be  | Open/thick-Be           | close | Safe | Dark  | 1ms   | Obs  | 1x1 | 1024x1024          | (1536, 1536) | Q=98  | 0 0 2.0sec          |
|   | Open/thick-Be  | Open/thick-Be           | close | Safe | Dark  | 1ms   | Obs  | 1x1 | 1024x1024          | (1536, 1536) | Q=98  | 0 0 2.0sec          |
| └─ Subr= 2 1-time(s) 2.0sec   |                |                         |       |      |       |       |  |     |                    |              |       |                     |
| └─ Seqn= 19 2-time(s) 2.0sec  |                |                         |       |      |       |       |  |     |                    |              |       |                     |
|   | Open/Al-mesh   | Open/Ti-poly            | close | Safe | Norm  | 500ms | Obs  | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   | Al-poly/Open   | med-Be/Open             | close | Safe | Norm  | 1.41s | Obs  | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
| └─ Subr= 3 2-time(s) 2.0sec   |                |                         |       |      |       |       |  |     |                    |              |       |                     |
| └─ Seqn= 34 1-time(s) 2.0sec  |                |                         |       |      |       |       |  |     |                    |              |       |                     |
|   | Open/G-band    | Open/G-band             | open  | Safe | Norm  | 1ms   | Obs  | 1x1 | 2048x2048          | (1024, 1024) | Q=90  | 0 0 2.0sec          |
|   | Open/G-band    | Open/G-band             | close | Safe | Norm  | 1ms   | Obs  | 1x1 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   | Default Filter | Thicker Filter          | VLS   | mode | image | Exp.  | CCD  | Bin | ROI: size (center) |              | Comp. | AEC Buffer Interval |

| XOB #1B90: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 2nd Quadrant - Al/mesh (512ms), Al/Poly (1443ms) - w leak image-1 ms |                |                        |       |      |       |       |         |     |                    |              |       |                     |
|---|----------------|------------------------|-------|------|-------|-------|---------|-----|--------------------|--------------|-------|---------------------|
| Term  |                | Pointing (x, y)        |       |      |       |       | Comment |     |                    |              |       |                     |
| 02/01 12:13:00 - 02/01 12:19:54   |                | Fixed ( 528.4, -528.4) |       |      |       |       | # 2/4   |     |                    |              |       |                     |
| <b>PROG= 02 1-time(s)</b>   |                |                        |       |      |       |       |         |     |                    |              |       |                     |
| └─ Subr= 1 1-time(s) 2.0sec   |                |                        |       |      |       |       |         |     |                    |              |       |                     |
| └─ Seqn= 38 1-time(s) 2.0sec  |                |                        |       |      |       |       |         |     |                    |              |       |                     |
|   | Open/G-band    | Open/G-band            | open  | Safe | Norm  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 1536)  | Q=90  | 0 0 2.0sec          |
|   | Open/G-band    | Open/G-band            | open  | Safe | Norm  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 1536)  | Q=90  | 0 0 2.0sec          |
|   | Open/thick-Be  | Open/thick-Be          | close | Safe | Dark  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 1536)  | Q=98  | 0 0 2.0sec          |
|   | Open/thick-Be  | Open/thick-Be          | close | Safe | Dark  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 1536)  | Q=98  | 0 0 2.0sec          |
| └─ Subr= 2 1-time(s) 2.0sec   |                |                        |       |      |       |       |         |     |                    |              |       |                     |
| └─ Seqn= 19 2-time(s) 2.0sec  |                |                        |       |      |       |       |         |     |                    |              |       |                     |
|   | Open/Al-mesh   | Open/Ti-poly           | close | Safe | Norm  | 500ms | Obs     | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   | Al-poly/Open   | med-Be/Open            | close | Safe | Norm  | 1.41s | Obs     | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
| └─ Subr= 3 2-time(s) 2.0sec   |                |                        |       |      |       |       |         |     |                    |              |       |                     |
| └─ Seqn= 34 1-time(s) 2.0sec  |                |                        |       |      |       |       |         |     |                    |              |       |                     |
|   | Open/G-band    | Open/G-band            | open  | Safe | Norm  | 1ms   | Obs     | 1x1 | 2048x2048          | (1024, 1024) | Q=90  | 0 0 2.0sec          |
|   | Open/G-band    | Open/G-band            | close | Safe | Norm  | 1ms   | Obs     | 1x1 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   | Default Filter | Thicker Filter         | VLS   | mode | image | Exp.  | CCD     | Bin | ROI: size (center) |              | Comp. | AEC Buffer Interval |

| XOB #1B91: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 3rd Quadrant - Al/mesh (512ms), Al/Poly (1443ms) - w leak image-1 ms |                |                       |       |      |       |       |         |     |                    |              |       |                     |
|---|----------------|-----------------------|-------|------|-------|-------|---------|-----|--------------------|--------------|-------|---------------------|
| Term  |                | Pointing (x, y)       |       |      |       |       | Comment |     |                    |              |       |                     |
| 02/01 12:23:00 - 02/01 12:29:54   |                | Fixed ( 528.4, 528.4) |       |      |       |       | # 3/4   |     |                    |              |       |                     |
| <b>PROG= 01 1-time(s)</b>   |                |                       |       |      |       |       |         |     |                    |              |       |                     |
| └─ Subr= 1 1-time(s) 2.0sec   |                |                       |       |      |       |       |         |     |                    |              |       |                     |
| └─ Seqn= 21 1-time(s) 2.0sec  |                |                       |       |      |       |       |         |     |                    |              |       |                     |
|   | Open/G-band    | Open/G-band           | open  | Safe | Norm  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 512)   | Q=90  | 0 0 2.0sec          |
|   | Open/G-band    | Open/G-band           | open  | Safe | Norm  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 512)   | Q=90  | 0 0 2.0sec          |
|   | Open/thick-Be  | Open/thick-Be         | close | Safe | Dark  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 512)   | Q=98  | 0 0 2.0sec          |
|   | Open/thick-Be  | Open/thick-Be         | close | Safe | Dark  | 1ms   | Obs     | 1x1 | 1024x1024          | (512, 512)   | Q=98  | 0 0 2.0sec          |
| └─ Subr= 2 1-time(s) 2.0sec   |                |                       |       |      |       |       |         |     |                    |              |       |                     |
| └─ Seqn= 19 2-time(s) 2.0sec  |                |                       |       |      |       |       |         |     |                    |              |       |                     |
|   | Open/Al-mesh   | Open/Ti-poly          | close | Safe | Norm  | 500ms | Obs     | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   | Al-poly/Open   | med-Be/Open           | close | Safe | Norm  | 1.41s | Obs     | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
| └─ Subr= 3 2-time(s) 2.0sec   |                |                       |       |      |       |       |         |     |                    |              |       |                     |
| └─ Seqn= 34 1-time(s) 2.0sec  |                |                       |       |      |       |       |         |     |                    |              |       |                     |
|   | Open/G-band    | Open/G-band           | open  | Safe | Norm  | 1ms   | Obs     | 1x1 | 2048x2048          | (1024, 1024) | Q=90  | 0 0 2.0sec          |
|   | Open/G-band    | Open/G-band           | close | Safe | Norm  | 1ms   | Obs     | 1x1 | 2048x2048          | (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   | Default Filter | Thicker Filter        | VLS   | mode | image | Exp.  | CCD     | Bin | ROI: size (center) |              | Comp. | AEC Buffer Interval |

| XOB #1B92: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 4th Quadrant - Al/mesh (512ms), Al/Poly (1443ms) - w leak image-1 ms |               |                        |       |      |      |     |         |     |           |             |      |            |
|---|---------------|------------------------|-------|------|------|-----|---------|-----|-----------|-------------|------|------------|
| Term  |               | Pointing (x, y)        |       |      |      |     | Comment |     |           |             |      |            |
| 02/01 12:33:00 - 02/01 12:39:54   |               | Fixed ( -528.4, 528.4) |       |      |      |     | # 4/4   |     |           |             |      |            |
| <b>PROG= 12 1-time(s)</b>   |               |                        |       |      |      |     |         |     |           |             |      |            |
| └─ Subr= 1 1-time(s) 2.0sec   |               |                        |       |      |      |     |         |     |           |             |      |            |
| └─ Seqn= 14 1-time(s) 2.0sec  |               |                        |       |      |      |     |         |     |           |             |      |            |
|   | Open/G-band   | Open/G-band            | open  | Safe | Norm | 1ms | Obs     | 1x1 | 1024x1024 | (1536, 512) | Q=90 | 0 0 2.0sec |
|   | Open/G-band   | Open/G-band            | open  | Safe | Norm | 1ms | Obs     | 1x1 | 1024x1024 | (1536, 512) | Q=90 | 0 0 2.0sec |
|   | Open/thick-Be | Open/thick-Be          | close | Safe | Dark | 1ms | Obs     | 1x1 | 1024x1024 | (1536, 512) | Q=98 | 0 0 2.0sec |
|   | Open/thick-Be | Open/thick-Be          | close | Safe | Dark | 1ms | Obs     | 1x1 | 1024x1024 | (1536, 512) | Q=98 | 0 0 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec   |               |                        |       |      |      |     |         |     |           |             |      |            |



|                |                |       |      |       |       |     |     |                      |       |            |          |        |
|----------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
| thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
| Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
| thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
| Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
| thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
| Default Filter | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

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

| Term                            | Pointing (x, y)   | Comment                               |
|---------------------------------|-------------------|---------------------------------------|
| 02/02 04:03:00 - 02/02 06:27:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 28.0 min + HOP 349  |
| 02/03 04:03:00 - 02/03 05:59:54 | Fixed ( 0.0, 0.0) | synoptic + HOP 349                    |
| 02/04 04:14:30 - 02/04 05:59:54 | Fixed ( 0.0, 0.0) | synoptic + HOP 349                    |
| 02/05 04:03:00 - 02/05 05:31:24 | Fixed ( 0.0, 0.0) | synoptic, shifted -28.5 min + HOP 349 |
| 02/06 04:03:00 - 02/06 06:05:24 | Fixed ( 0.0, 0.0) | synoptic, shifted 5.5 min + HOP 349   |
| 02/07 04:21:30 - 02/07 06:06:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 7.0 min + HOP 349   |

**PROG= 18 Inf.-time(s)**

|                                    |                  |       |      |       |       |     |     |                        |       |            |          |        |
|------------------------------------|------------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| <b>Subr= 1 1-time(s) 300.0sec</b>  |                  |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 55 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Open/Al-mesh                       | Open/Al-mesh     | close | Safe | Norm  | 2ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh                       | Open/Al-mesh     | close | Safe | Norm  | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh                       | Open/Al-mesh     | close | Safe | Norm  | 707ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 15 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Al-poly/Open                       | Al-poly/Open     | close | Safe | Norm  | 12ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open                       | Al-poly/Open     | close | Safe | Norm  | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open                       | Al-poly/thick-Al | close | Safe | Norm  | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 79 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| thin-Be/Open                       | thin-Be/Open     | close | Safe | Norm  | 16ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open                       | thin-Be/Open     | close | Safe | Norm  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open                       | thin-Be/Open     | close | Safe | Norm  | 2.83s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 30 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Open/G-band                        | Open/G-band      | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band                        | Open/G-band      | close | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=95  | 0          | 0        | 2.0sec |
| <b>Subr= 2 20-time(s) 900.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 8 1-time(s) 2.0sec</b>    |                  |       |      |       |       |     |     |                        |       |            |          |        |
| thin-Be/Open                       | med-Be/Open      | close | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| thin-Be/Open                       | med-Be/Open      | close | Safe | Norm  | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| <b>Seqn= 74 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| med-Be/Open                        | med-Be/Open      | close | Safe | Norm  | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| med-Be/Open                        | med-Be/Open      | close | Safe | Norm  | 2.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 2          | 0        | 2.0sec |
| <b>Seqn= 6 1-time(s) 2.0sec</b>    |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Al-poly/Open                       | Al-poly/Open     | close | Safe | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| Al-poly/Open                       | Al-poly/Open     | close | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| <b>Seqn= 29 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                        |       |            |          |        |
| Open/Al-mesh                       | Open/Al-mesh     | close | Safe | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| Open/Al-mesh                       | Open/Al-mesh     | close | Safe | Norm  | 250ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 2          | 0        | 2.0sec |
| Default Filter                     | Thicker Filter   | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

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

| Term                            | Pointing (x, y)  | Comment |
|---------------------------------|--|---------|
| 02/02 18:27:30 - 02/03 03:59:54 | Track ( -643.1, -171.7) <sup>02/02 18:24:30</sup> # AR 13207 observations. |         |

**PROG= 16 Inf.-time(s)**

|                                    |                |       |      |       |       |     |     |                      |       |            |          |        |
|------------------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 1 1-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 92 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Subr= 2 5-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 47 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Seqn= 96 4-time(s) 120.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
| Al-poly/Open                       | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
| Default Filter                     | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

**XOB #1CD7: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with**

| Term                            | Pointing (x, y)  | Comment |
|---------------------------------|--|---------|
| 02/03 06:13:00 - 02/03 11:28:00 | Track ( -557.6, -164.3) <sup>02/03 06:10:00</sup> # AR cont. |         |
| 02/03 18:13:00 - 02/03 22:29:54 | Track ( -463.2, -157.7) <sup>02/03 18:10:00</sup> # AR cont. |         |
| 02/04 03:03:00 - 02/04 03:52:30 | Track ( -389.9, -153.6) <sup>02/04 03:00:00</sup> # AR cont. |         |

|                                 |                         |                  |            |
|---------------------------------|-------------------------|------------------|------------|
| 02/04 06:13:00 - 02/04 18:01:54 | Track ( -362.9, -152.3) | @ 02/04 06:10:00 | # AR cont. |
| 02/04 18:15:00 - 02/05 03:59:54 | Track ( -257.6, -148.2) | @ 02/04 18:12:00 | # AR cont. |
| 02/05 05:44:30 - 02/05 11:29:54 | Track ( -154.1, -145.4) | @ 02/05 05:41:30 | # AR cont. |
| 02/05 18:34:30 - 02/06 03:59:54 | Track ( -36.7, -143.8)  | @ 02/05 18:31:30 | # AR cont. |
| 02/06 06:18:30 - 02/06 17:59:54 | Track ( 70.9, -143.8)   | @ 02/06 06:15:30 | # AR cont. |
| 02/06 18:17:00 - 02/07 03:59:30 | Track ( 178.9, -145.1)  | @ 02/06 18:10:00 | # AR cont. |
| 02/07 06:20:00 - 02/07 11:15:45 | Track ( 286.1, -147.9)  | @ 02/07 06:17:00 | # AR cont. |

**PROG= 13 Inf.-time(s)**

|                                       |                |       |      |       |       |     |     |                      |       |            |          |        |
|---------------------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 1 1-time(s) 2.0sec</b>       |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ <b>Seqn= 92 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Subr= 2 5-time(s) 2.0sec</b>       |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ <b>Seqn= 47 1-time(s) 2.0sec</b>   |                |       |      |       |       |     |     |                      |       |            |          |        |
| 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 |
| └─ <b>Seqn= 96 4-time(s) 180.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                          | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
| thin-Be/Open                          | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
| Al-poly/Open                          | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
| thin-Be/Open                          | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
| Al-poly/Open                          | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
| thin-Be/Open                          | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
| Default Filter                        | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

**XOB #1CDF: HOP81/206 1-filter - Al/poly 6s, 60s cadence, G-band - 384x384 1ms**

| Term                            | Pointing (x, y)        | Comment           |
|---------------------------------|------------------------|-------------------|
| 02/03 11:37:00 - 02/03 17:59:54 | Fixed ( -21.0, 861.0)  | # HOP 81 (North). |
| 02/05 11:33:00 - 02/05 17:57:30 | Fixed ( -21.0, -959.0) | # HOP 81 (South). |

**PROG= 09 Inf.-time(s)**

|                                      |                |       |      |       |       |     |     |                      |       |            |          |        |
|--------------------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 1 1-time(s) 2.0sec</b>      |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ <b>Seqn= 16 2-time(s) 2.0sec</b>  |                |       |      |       |       |     |     |                      |       |            |          |        |
| Open/G-band                          | Open/G-band    | close | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| <b>Subr= 2 1-time(s) 2.0sec</b>      |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ <b>Seqn= 90 1-time(s) 30.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |        |
| Open/G-band                          | Open/G-band    | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
| <b>Subr= 3 60-time(s) 60.0sec</b>    |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ <b>Seqn= 24 1-time(s) 30.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                         | Al-poly/Open   | close | Safe | Norm  | 5.66s | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
| Default Filter                       | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

**XOB #1CDE: HOP393/336 - 4x4 - Full Sun double long/short pair AEC 2/3 - Al-poly - Dark (512ms) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 7**

| Term                            | Pointing (x, y)      | Comment                     |
|---------------------------------|----------------------|-----------------------------|
| 02/03 23:39:30 - 02/04 02:59:54 | Track ( -35.2, 66.0) | @ 02/03 23:30:00 # HOP 393. |

**PROG= 07 Inf.-time(s)**

|                                     |                |       |      |       |       |     |     |                        |       |            |          |        |
|-------------------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| <b>Subr= 1 1-time(s) 2.0sec</b>     |                |       |      |       |       |     |     |                        |       |            |          |        |
| └─ <b>Seqn= 30 1-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| Open/G-band                         | Open/G-band    | open  | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band                         | Open/G-band    | close | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=95  | 0          | 0        | 2.0sec |
| └─ <b>Seqn= 52 1-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| Al-poly/Open                        | Al-poly/Open   | close | Safe | Dark  | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| <b>Subr= 2 30-time(s) 720.0sec</b>  |                |       |      |       |       |     |     |                        |       |            |          |        |
| └─ <b>Seqn= 97 2-time(s) 2.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| Al-poly/Open                        | med-Be/Open    | close | Safe | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| Al-poly/Open                        | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| Default Filter                      | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

\* \* \* \* \*

**Flare mode**

\* \* \* \* \*

**XOB #1C96: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + GB**

| Term                            | Pointing (x, y)         | Comment                                   |
|---------------------------------|-------------------------|---|
| 02/01 12:53:00 - 02/01 17:55:54 | Track ( 767.4, 365.8)   | @ 02/01 12:50:00 # AR cont.               |
| 02/01 18:09:00 - 02/02 03:59:54 | Track ( 788.5, 361.6)   | @ 02/01 18:06:00 # AR cont.               |
| 02/02 04:03:00 - 02/02 06:27:54 | Fixed ( 0.0, 0.0)       | synoptic, shifted 28.0 min + HOP 349      |
| 02/02 06:41:00 - 02/02 17:50:30 | Track ( 830.5, 351.1)   | @ 02/02 06:38:00 # AR cont.               |
| 02/02 18:27:30 - 02/03 03:59:54 | Track ( -643.1, -171.7) | @ 02/02 18:24:30 # AR 13207 observations. |
| 02/03 04:03:00 - 02/03 05:59:54 | Fixed ( 0.0, 0.0)       | synoptic + HOP 349                        |
| 02/03 06:13:00 - 02/03 11:28:00 | Track ( -557.6, -164.3) | @ 02/03 06:10:00 # AR cont.               |
| 02/03 11:37:00 - 02/03 17:59:54 | Fixed ( -21.0, 861.0)   | # HOP 81 (North).                         |
| 02/03 18:13:00 - 02/03 22:29:54 | Track ( -463.2, -157.7) | @ 02/03 18:10:00 # AR cont.               |
| 02/03 23:39:30 - 02/04 02:59:54 | Track ( -35.2, 66.0)    | @ 02/03 23:30:00 # HOP 393.               |
| 02/04 03:03:00 - 02/04 03:52:30 | Track ( -389.9, -153.6) | @ 02/04 03:00:00 # AR cont.               |
| 02/04 04:14:30 - 02/04 05:59:54 | Fixed ( 0.0, 0.0)       | synoptic + HOP 349                        |
| 02/04 06:13:00 - 02/04 18:01:54 | Track ( -362.9, -152.3) | @ 02/04 06:10:00 # AR cont.               |

02/04 18:15:00 - 02/05 03:59:54 Track ( -257.6, -148.2) @ 02/04 18:12:00 # AR cont.  
 02/05 04:03:00 - 02/05 05:31:24 Fixed ( 0.0, 0.0) synoptic, shifted -28.5 min + HOP 349  
 02/05 05:44:30 - 02/05 11:29:54 Track ( -154.1, -145.4) @ 02/05 05:41:30 # AR cont.  
 02/05 11:33:00 - 02/05 17:57:30 Fixed ( -21.0, -959.0) # HOP 81 (South).  
 02/05 18:34:30 - 02/06 03:59:54 Track ( -36.7, -143.8) @ 02/05 18:31:30 # AR cont.  
 02/06 04:03:00 - 02/06 06:05:24 Fixed ( 0.0, 0.0) synoptic, shifted 5.5 min + HOP 349  
 02/06 06:18:30 - 02/06 07:59:54 Track ( 70.9, -143.8) @ 02/06 06:15:30 # AR cont.  
 02/06 18:17:00 - 02/07 03:59:30 Track ( 178.9, -145.1) @ 02/06 18:10:00 # AR cont.  
 02/07 04:21:30 - 02/07 06:06:54 Fixed ( 0.0, 0.0) synoptic, shifted 7.0 min + HOP 349  
 02/07 06:20:00 - 02/07 11:15:45 Track ( 286.1, -147.9) @ 02/07 06:17:00 # AR cont.

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

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

\* \* \* \* \*

**Active Region Search**

\* \* \* \* \*

NOT USED

\* \* \* \* \*

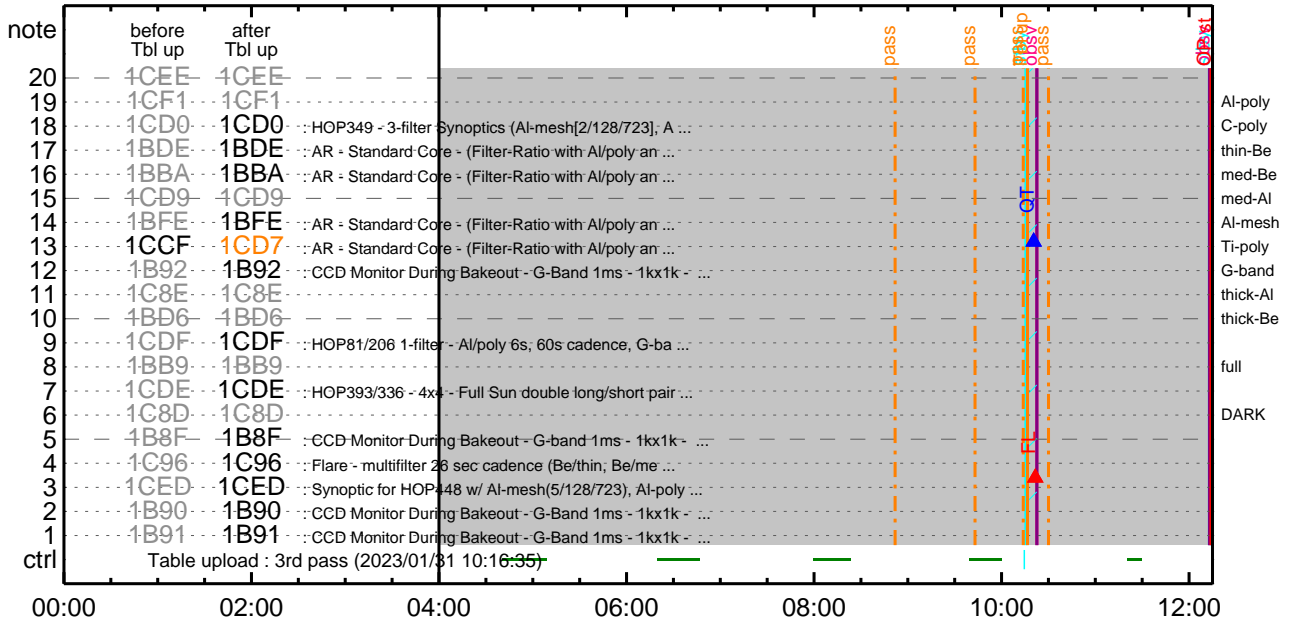
**Flare Detection**

\* \* \* \* \*

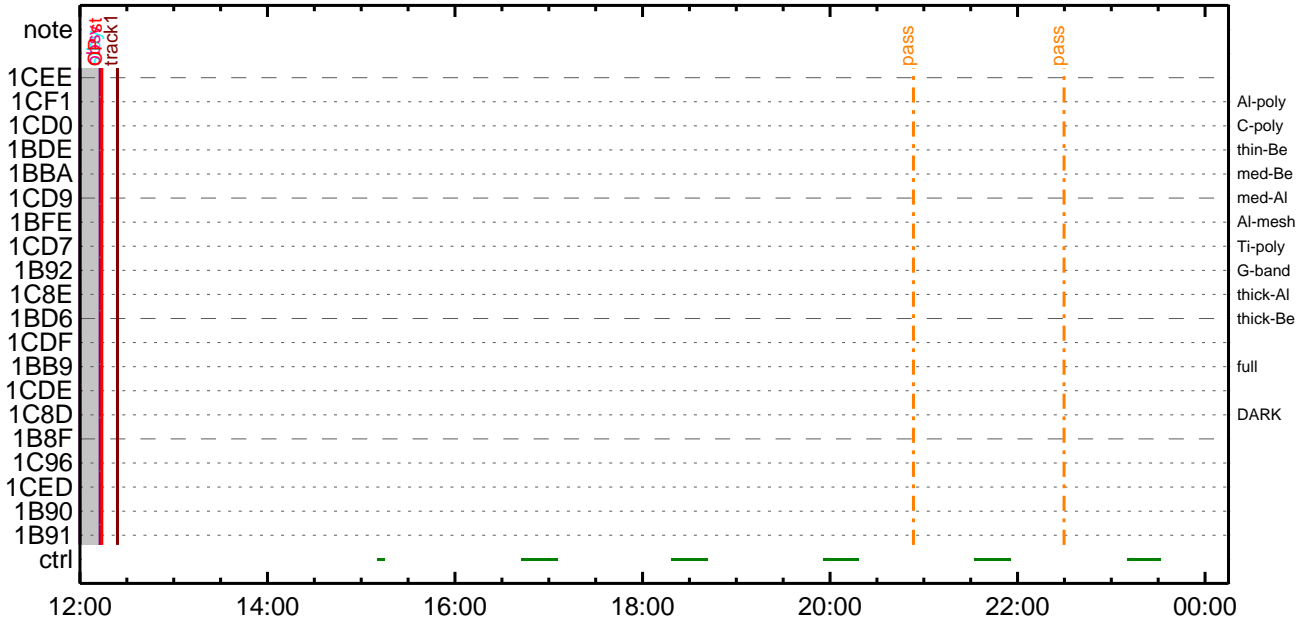
**FLD Patrol**

| Term                            | Pointing (x, y)                          | Comment  |
|---------------------------------|--|--|
| 01/31 10:17:35 - 02/01 12:02:56 | cannot be identified                     |  |
| 02/01 12:50:18 - 02/01 17:56:18 | Track ( 767.4, 365.8) @ 02/01 12:50:00   | # AR cont.   |
| 02/01 18:06:18 - 02/02 06:28:18 | Track ( 788.5, 361.6) @ 02/01 18:06:00   | # AR cont.   |
| 02/02 06:38:18 - 02/02 18:14:48 | Track ( 830.5, 351.1) @ 02/02 06:38:00   | # AR cont.   |
| 02/02 18:24:48 - 02/03 06:00:18 | Track ( -643.1, -171.7) @ 02/02 18:24:30 | # AR 13207 observations.   |
| 02/03 06:10:18 - 02/03 18:00:18 | Track ( -557.6, -164.3) @ 02/03 06:10:00 | # AR cont.   |
| 02/03 18:10:18 - 02/04 06:00:18 | Track ( -463.2, -157.7) @ 02/03 18:10:00 | # AR cont.   |
| 02/04 06:10:18 - 02/04 18:02:18 | Track ( -362.9, -152.3) @ 02/04 06:10:00 | # AR cont.   |
| 02/04 18:12:18 - 02/05 05:31:48 | Track ( -257.6, -148.2) @ 02/04 18:12:00 | # AR cont.   |
| 02/05 05:41:48 - 02/05 18:21:48 | Track ( -154.1, -145.4) @ 02/05 05:41:30 | # AR cont.   |
| 02/05 18:31:48 - 02/06 06:05:48 | Track ( -36.7, -143.8) @ 02/05 18:31:30  | # AR cont.   |
| 02/06 06:15:48 - 02/06 18:00:18 | Track ( 70.9, -143.8) @ 02/06 06:15:30   | # AR cont.   |
| 02/06 18:14:18 - 02/07 06:07:18 | Track ( 178.9, -145.1) @ 02/06 18:10:00  | # AR cont.   |
| 02/07 06:17:18 - 02/09 12:04:00 | Track ( 286.1, -147.9) @ 02/07 06:17:00  | # AR cont.   |
| Al-poly/Open                    | Al-poly/Open close                       | Safe Norm 4ms Obs 8x8 Q=50 30sec   |
| Default Filter                  | Thicker Filter                           | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

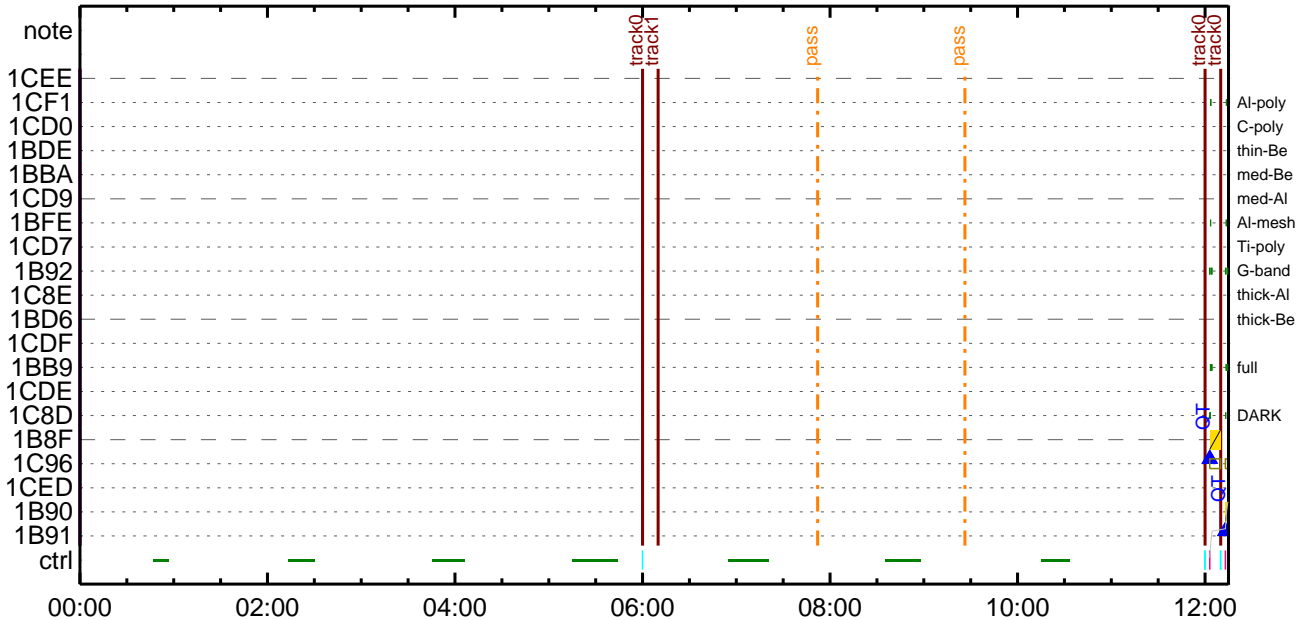
### CMDI #0856 2023/01/31



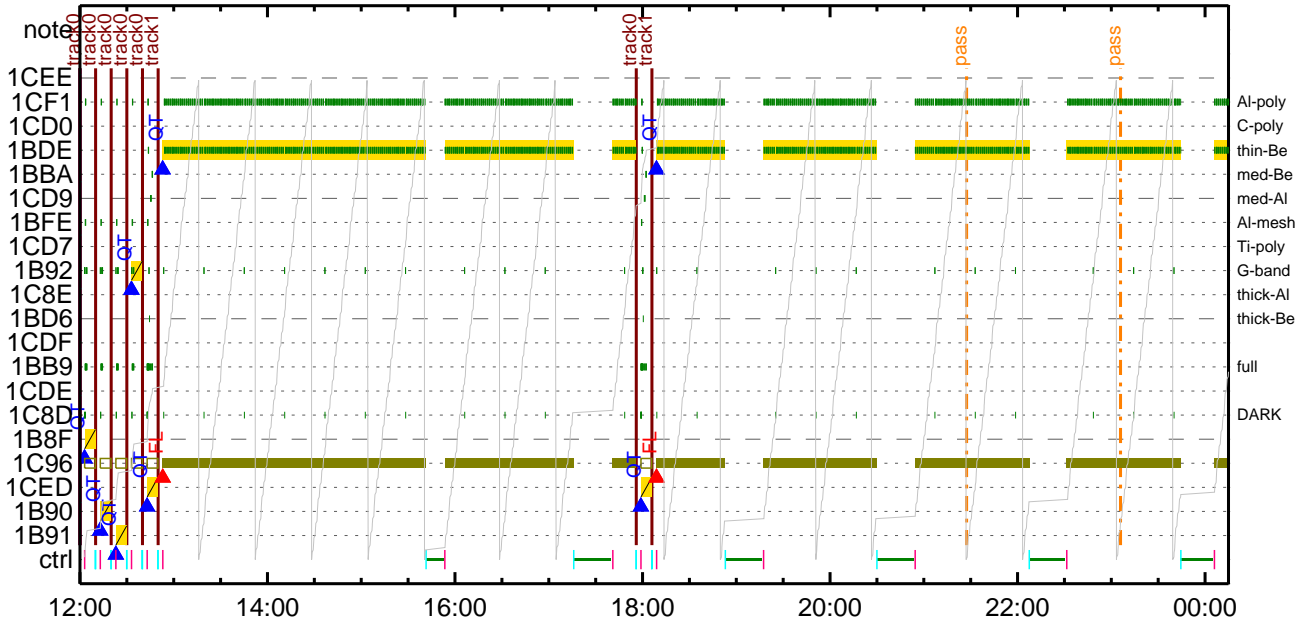
### CMDI #0856 2023/01/31



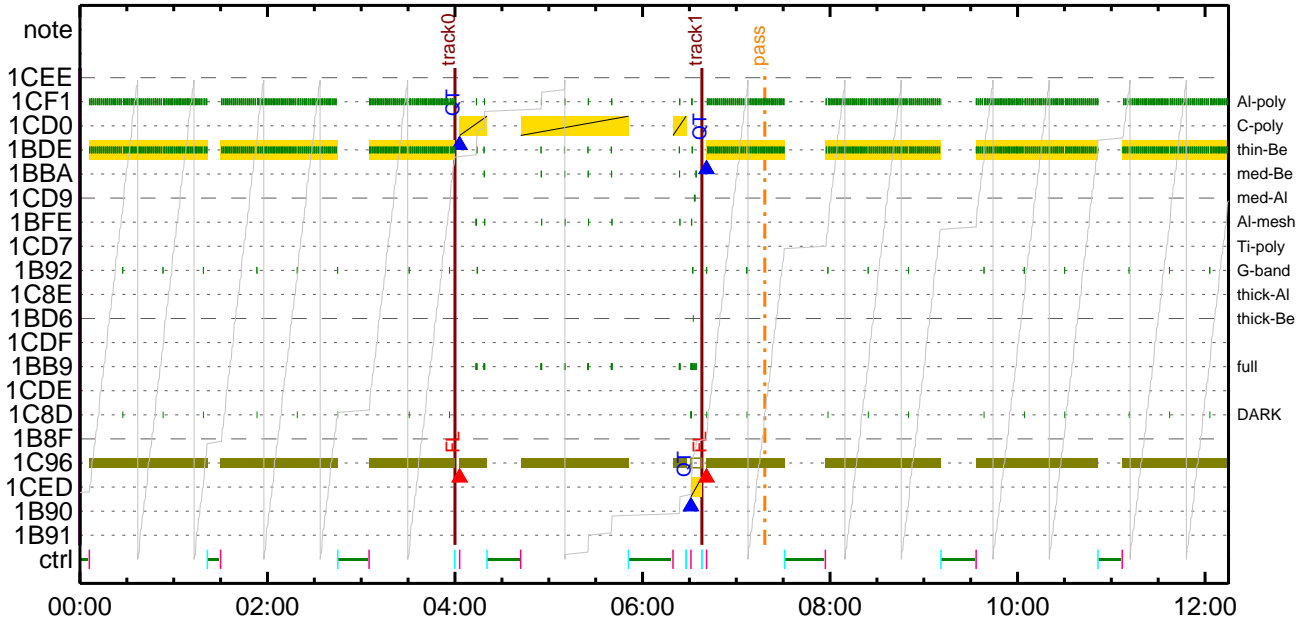
### CMDI #0856 2023/02/01



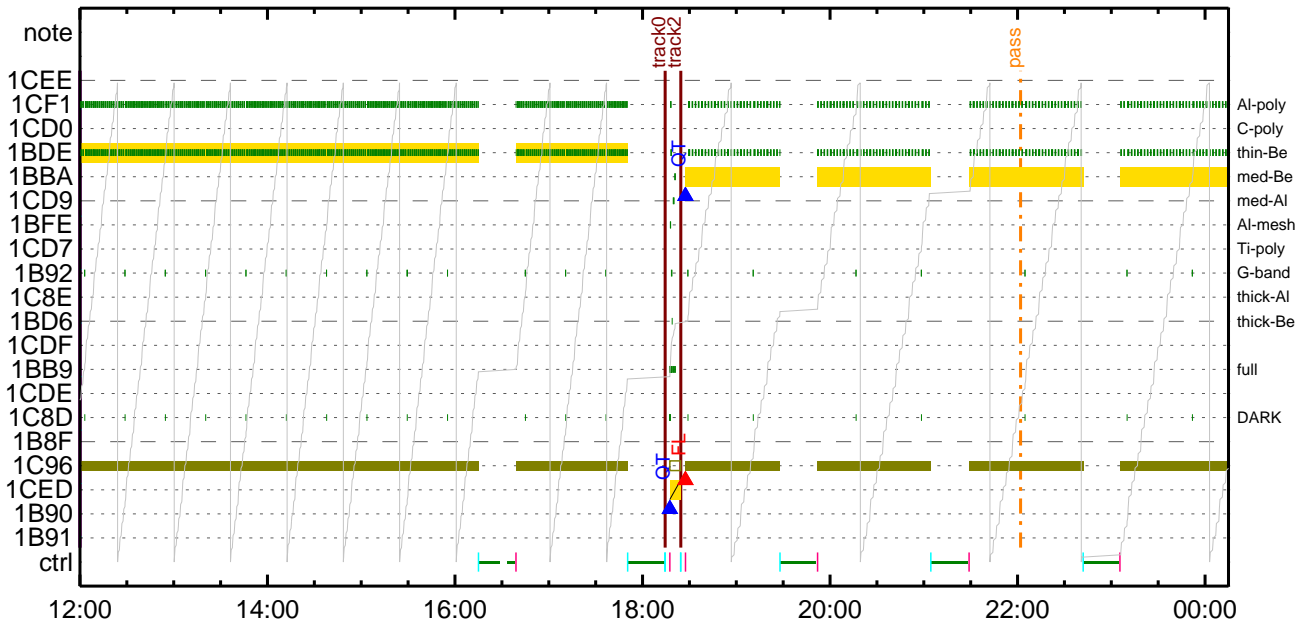
CMDI #0856 2023/02/01



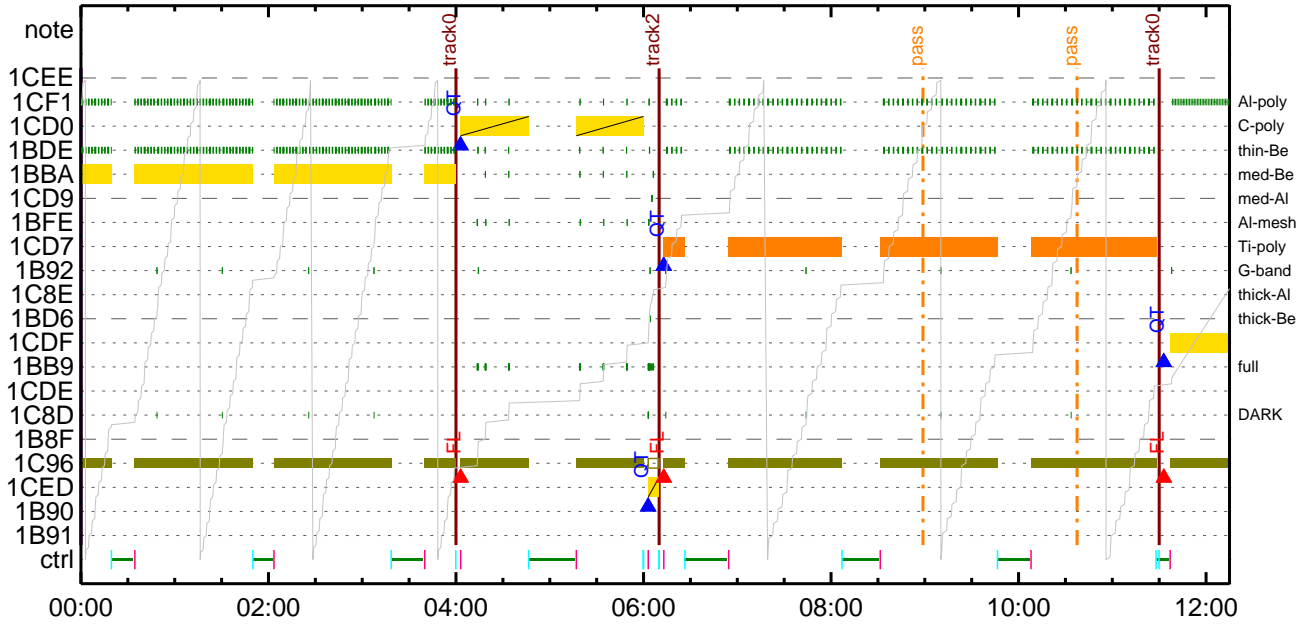
CMDI #0856 2023/02/02



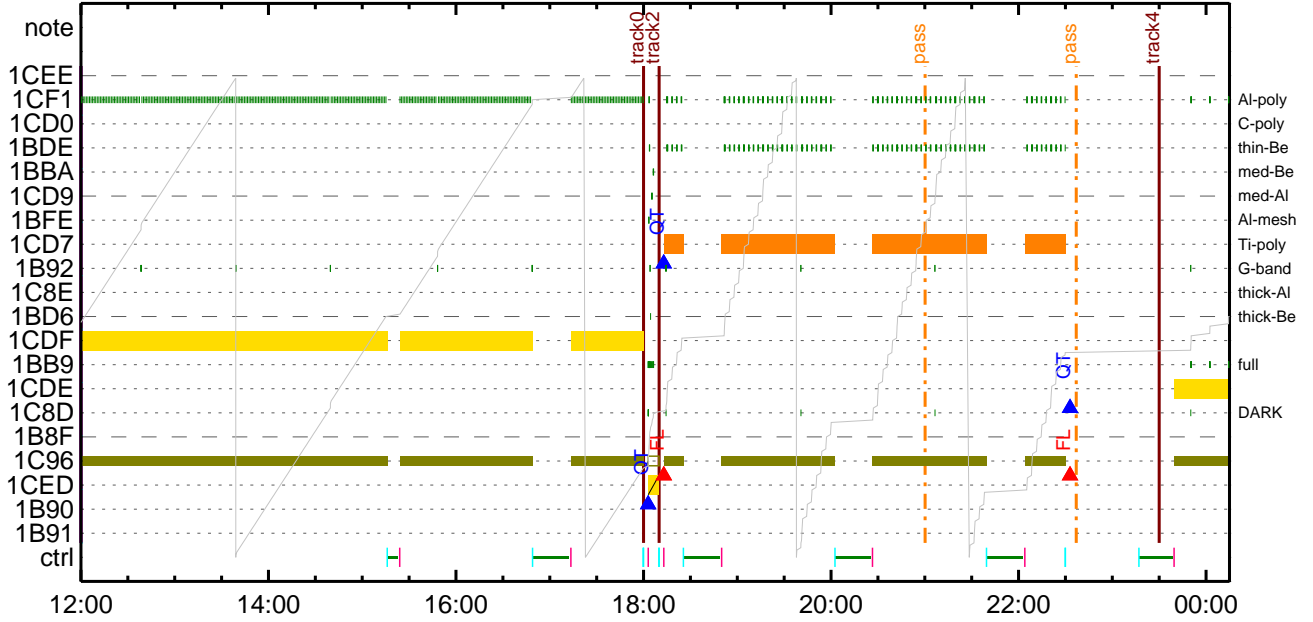
CMDI #0856 2023/02/02



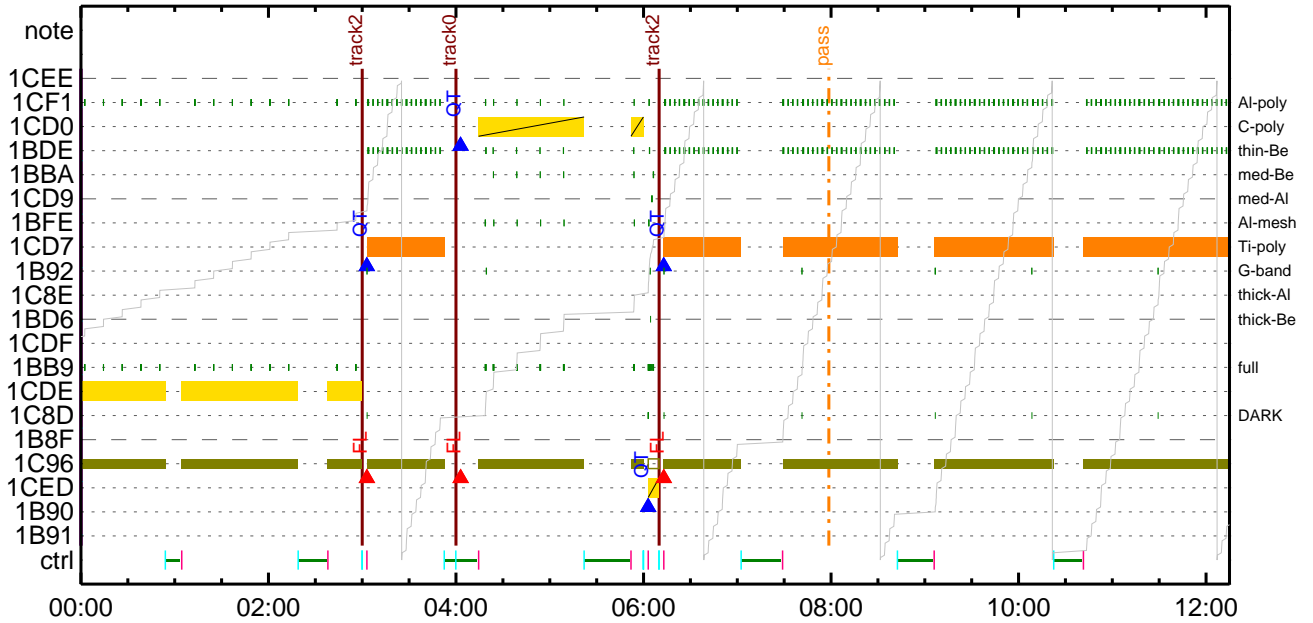
CMDI #0856 2023/02/03



CMDI #0856 2023/02/03

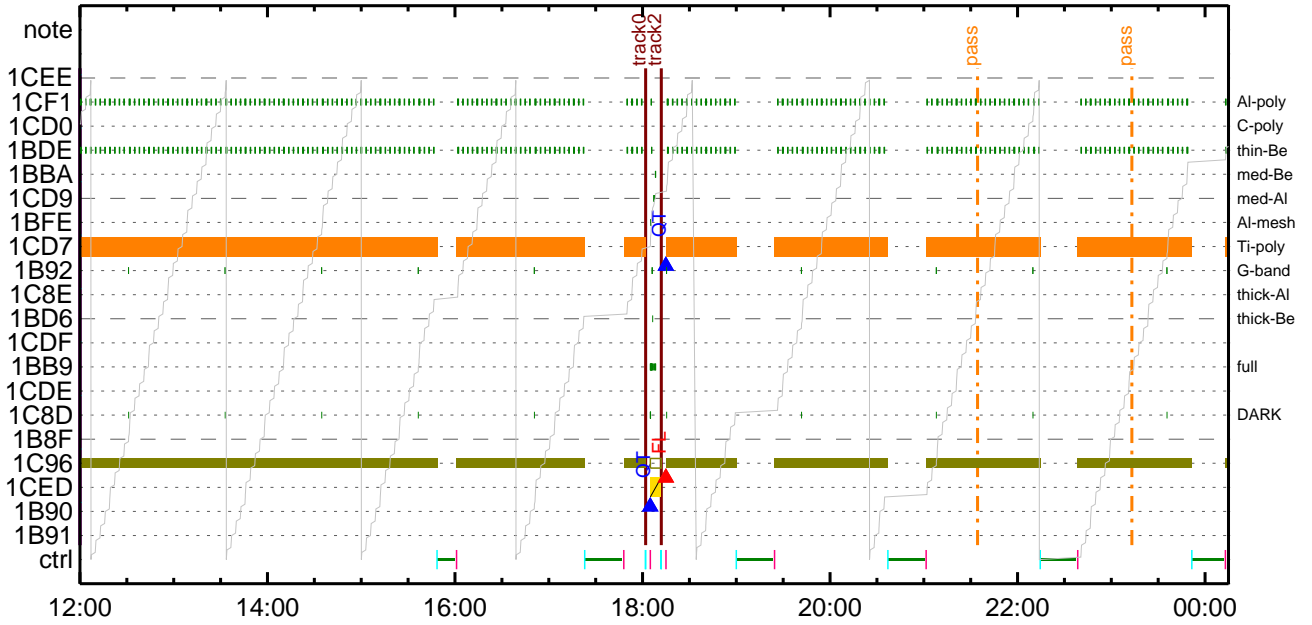


CMDI #0856 2023/02/04

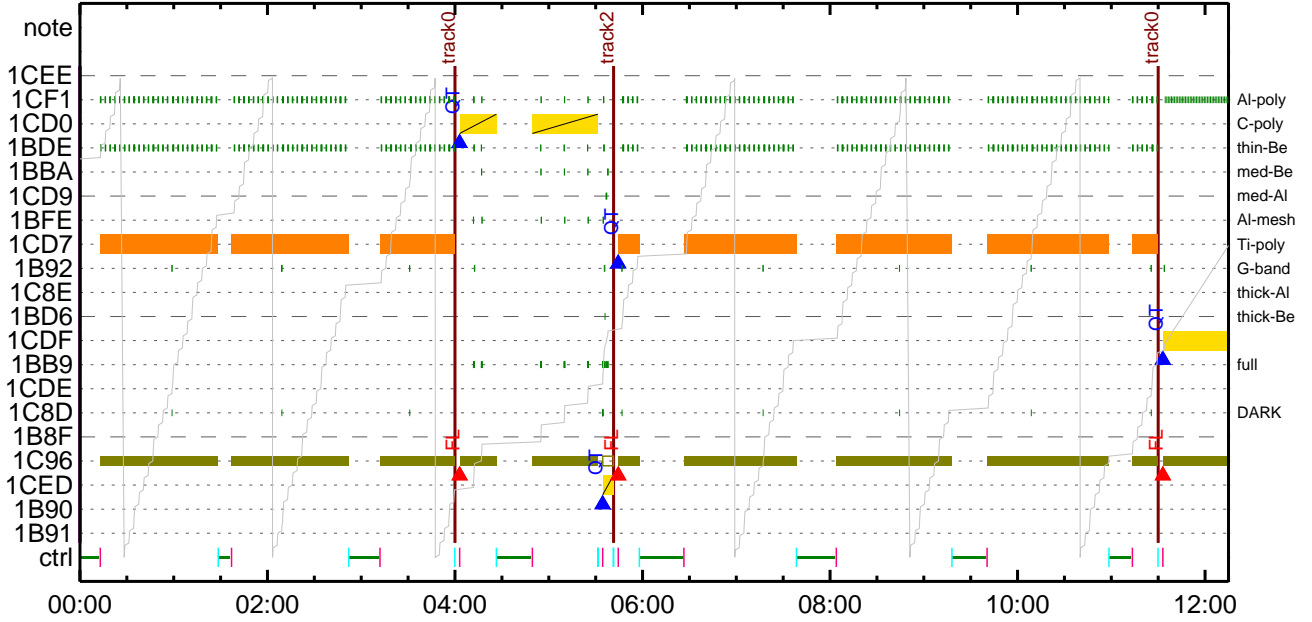




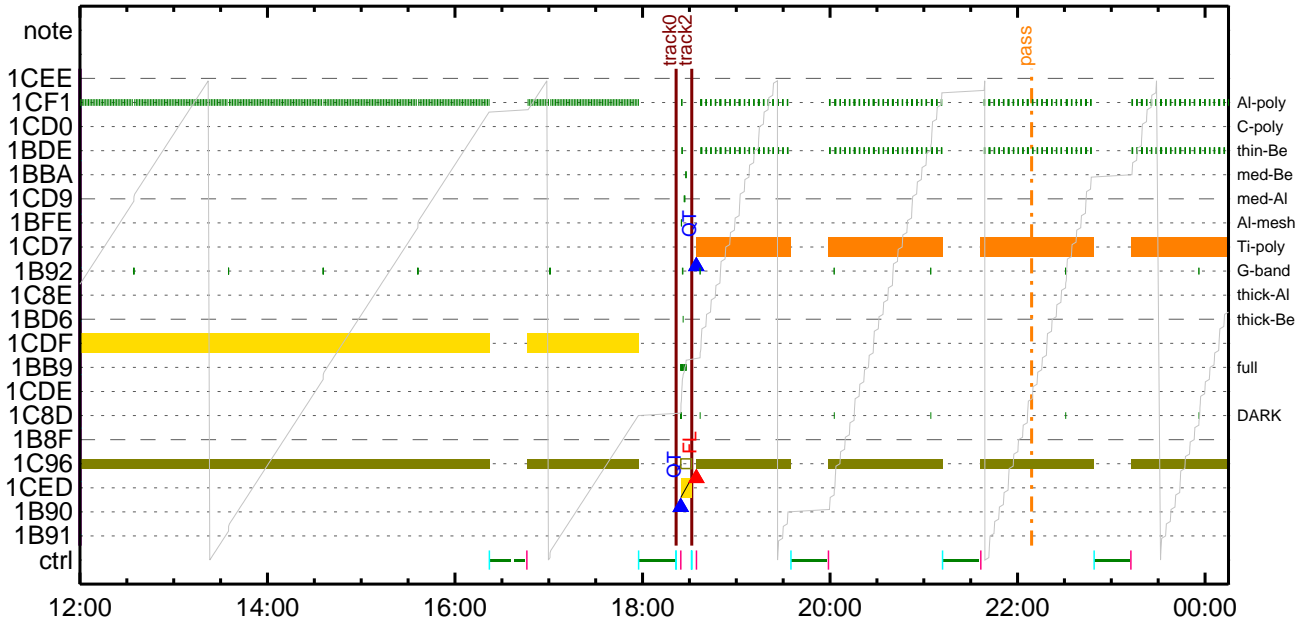
CMDI #0856 2023/02/04



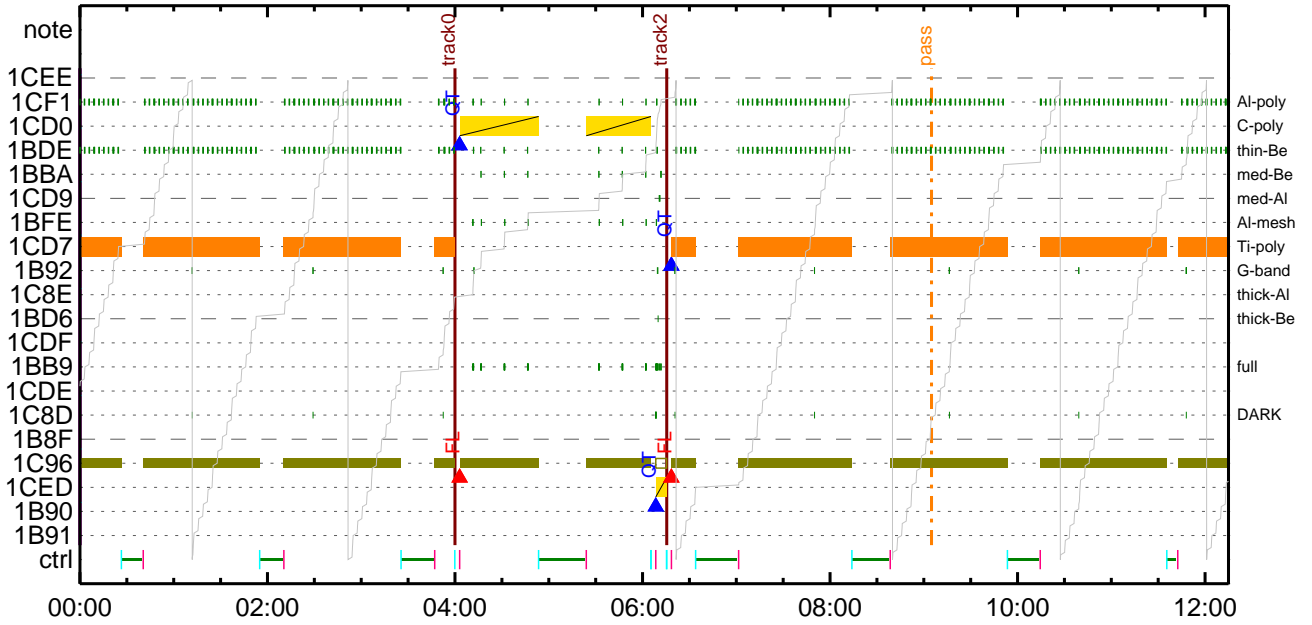
CMDI #0856 2023/02/05



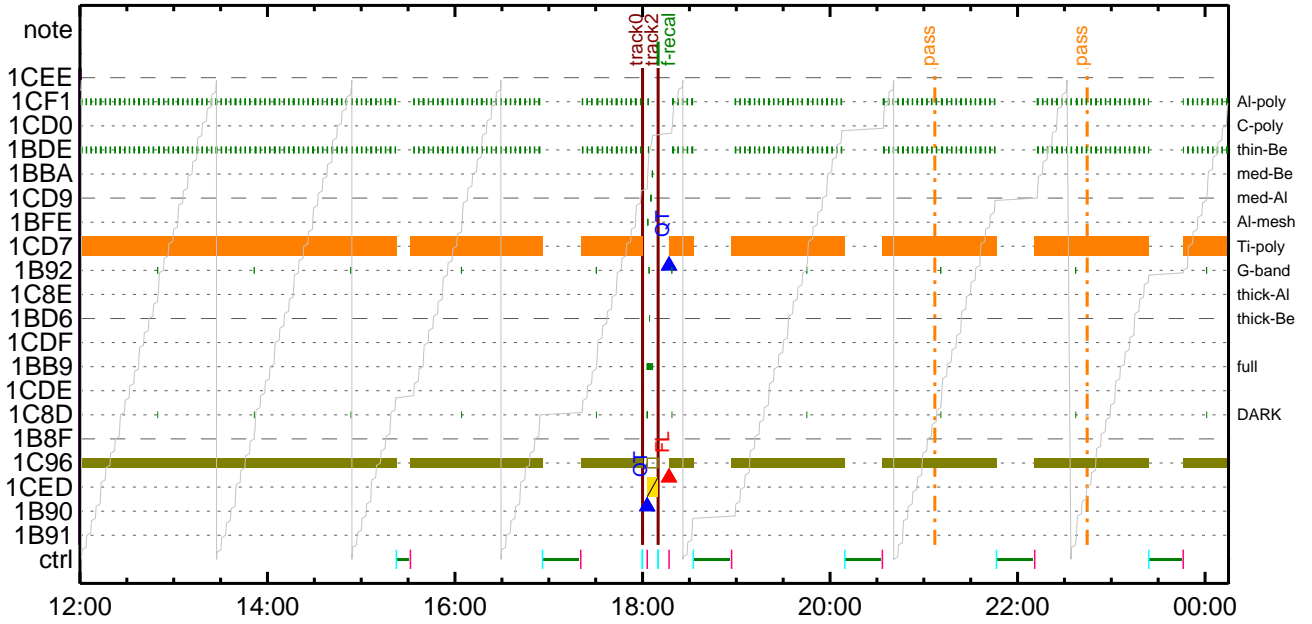
CMDI #0856 2023/02/05



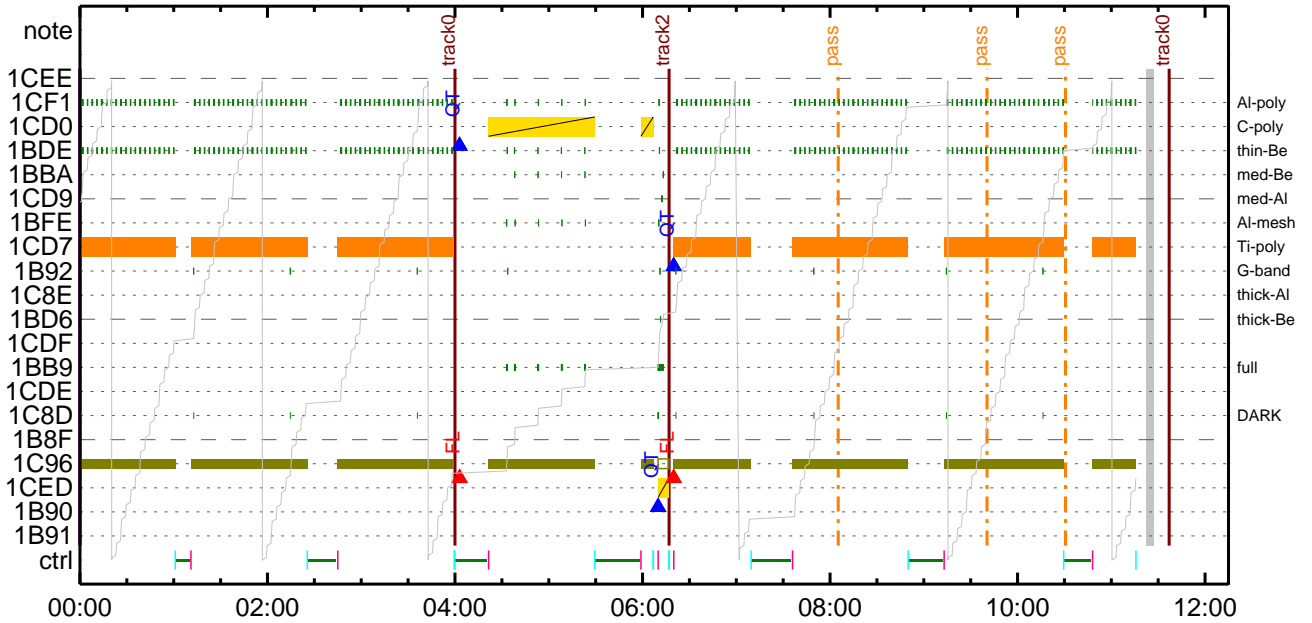
CMDI #0856 2023/02/06



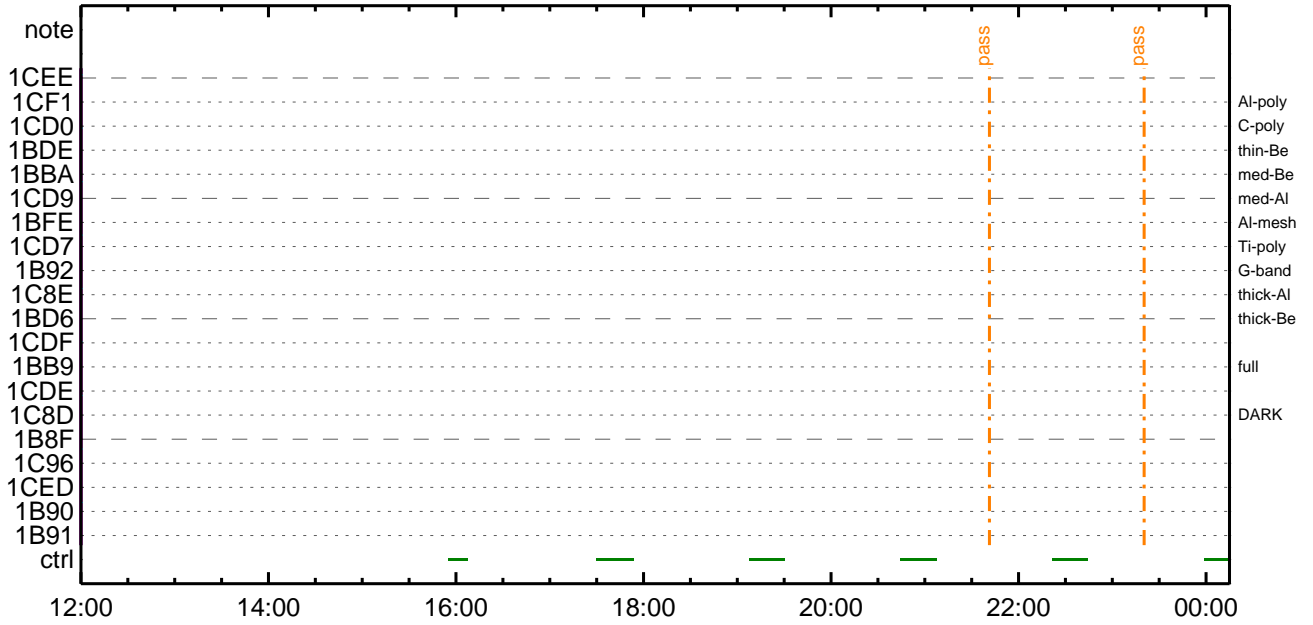
CMDI #0856 2023/02/06



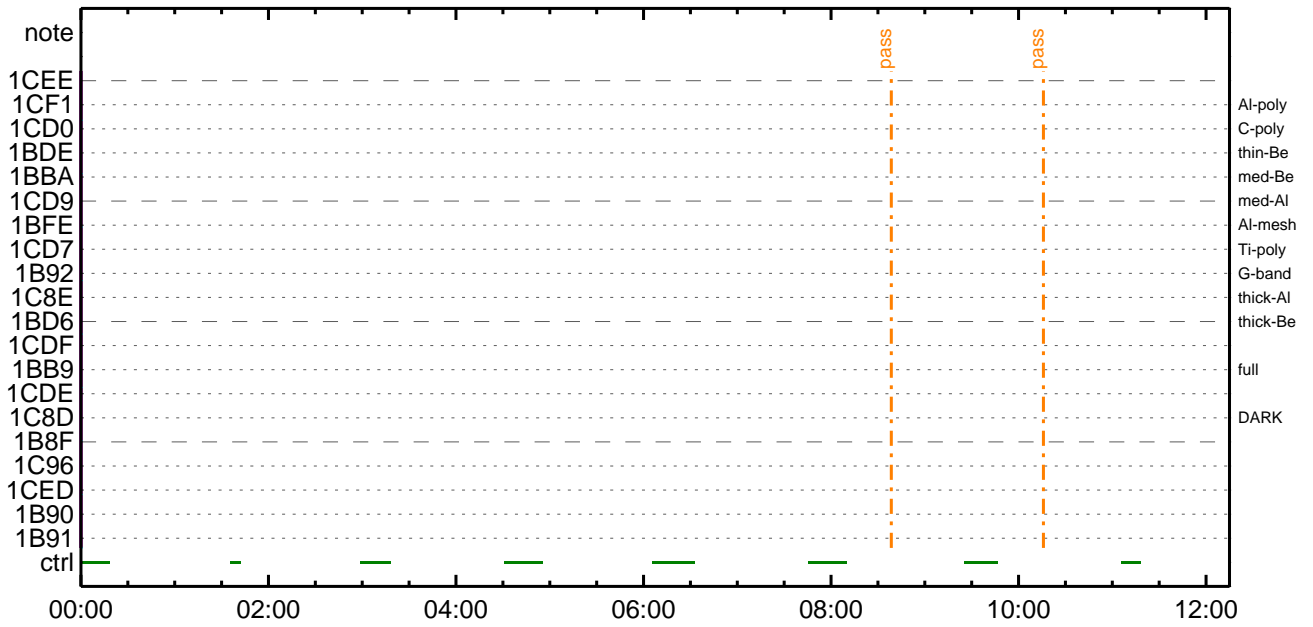
CMDI #0856 2023/02/07



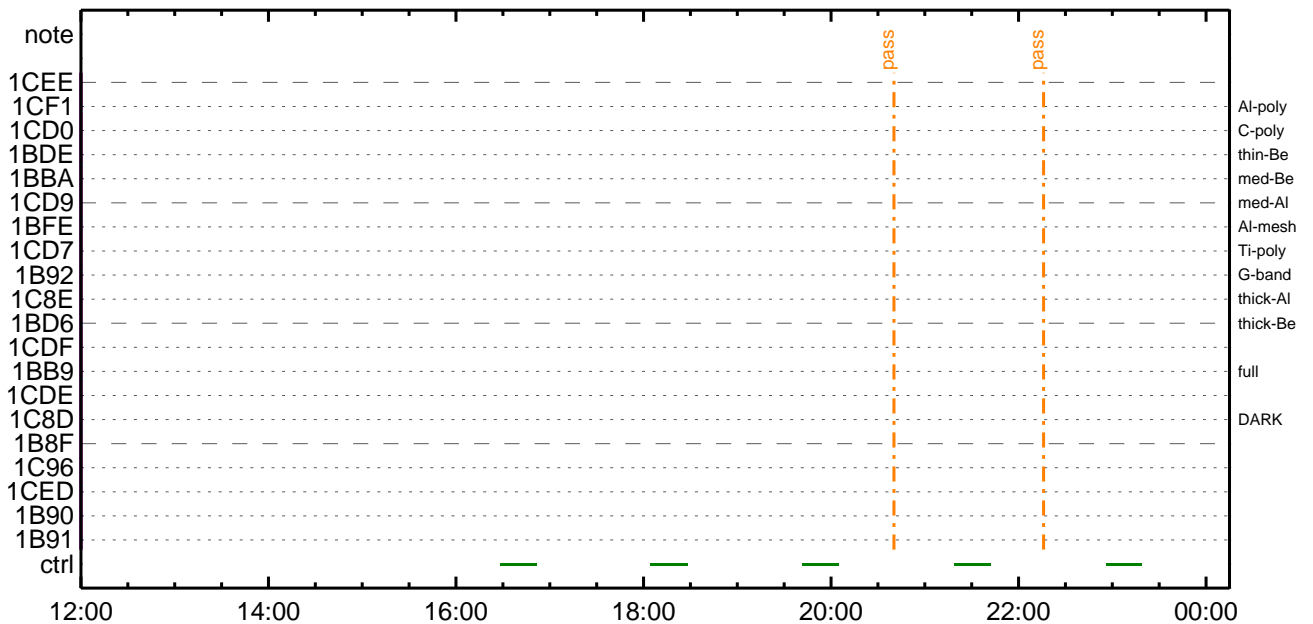
CMDI #0856 2023/02/07



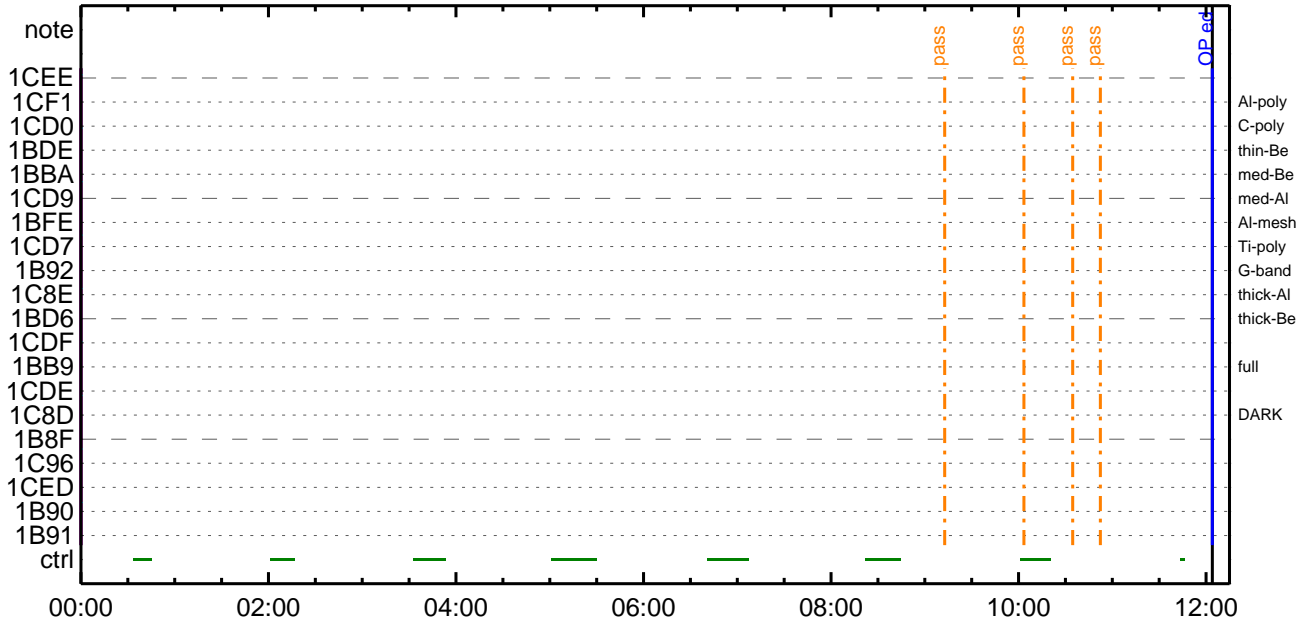
CMDI #0856 2023/02/08



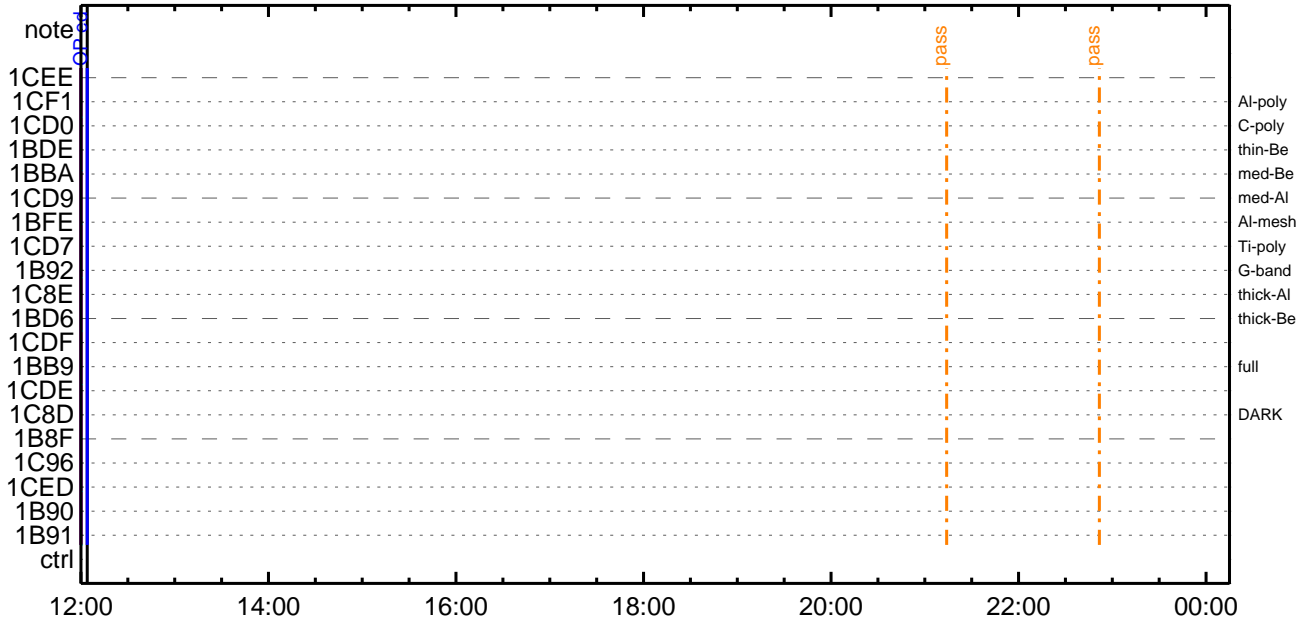
CMDI #0856 2023/02/08



CMDI #0856 2023/02/09



CMDI #0856 2023/02/09









(a) Spacecraft Operation Procedure (real-commands)

```
main-651 2023-01-31 12:54:11 94 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È□¿□Á□•μ°Æ»Í×ÁÇ□íYçYÁY×Yí;¼YÉ;ÈÈ%μ•íÉ;È□È¼°ÇÔ□•□¿¼í¹ç□í;çÁ®, ù□¹□È□□□ÇÁ+¿®□•□È□□□³□È;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ( )
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_STs1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCs Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCSDUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. ***** AOCs Commands (Orbital Element Update) *****
0046 C. Update the orbital element
0047 +. DC 02-50 AOCU_ORB_PRPGT_START
0048 BC (16)
0049 +. DC 02-8E AOCU_ORB_UPD
0050 C.
0051 C. <A_ORB>[ORBIT] EPC = 4082160.3 +- 1.0 (s) [ ]
0052 C.
0053 . C.
0054 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0055 +. DC 07-FC EIS_MODE_CHG_ENA
0056 BC (20)
0057 . C. Verify EIS_MODE_CHG_FLG is ENA
0058 +. DC 07-FC EIS_MODE_MANU
0059 BC (21 02)
0060 . C. Verify EIS in MANUAL mode
0061 . C. Estimated OBSTBL upload time is 45s
0062 C. *****
0063 C. EIS START OBSTBL LOAD
0064 C. *****
0065 . S. RAM ram-820:EIS_OBSTBL
0066 ( )
0067 +. DC 07-FC EIS_DUMP_OBSTBL
0068 BC (07 07 07 00 00 70 00)
0069 C.
0070 C. Execute, after the success of OBSTBL upload.
0071 C. Set EIS TI-commands
0072 +. TI 2023-01-31 12:13:50.0
0073 DC 07-FC EIS_MODE_CHG_ENA
0074 BC (20)
0075 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0076 C. *****
0077 C. EIS END OBSTBL LOAD
0078 C. *****
0079 C.
0080 . C. ***** MDP `ûÁî□í»ò¼Y□ÈÁ□□¹□ÈDCBC•×²è *****
0081 C. (¼á°íYÓYÁYÈYÞYÈYáYçYÈ□È¼¼□□¼Á»Û¹□È)
0082 . S. DC-BC dcbc-402:DCBC
0083 (MDP_known_event)
0084 C.
0085 C.
0086 . C. ***** YDÝ¹•İ Daily±¿íÑ□È`Ø□¹□ÈDCBC•×²è *****
0087 . S. DC-BC dcbc-153:DCBC
0088 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0089 C.
0090 C.
0091 . C. ;ãLOSÁY$YÁY-¼Á»Û;ã
0092 C.
0093 . C. ***** LOS *****
0094 C.
```



(a) Spacecraft Operation Procedure (real-commands)

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main-652 2023-01-31 12:54:11 106 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YF¥ÖYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È□¿□□□•µ°•È×ÁÇ□íYçYÁY×Yí;¼YÉ;ÈÈ%µ•ííÉ;È□È¼°Ç□□•□¿¼í¹ç□í;çÀ®, ù□¹□è□□□çÁ+¿®□•□È□□□□è;f
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_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG ____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 05 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 06 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 07 c0 c0 10 10)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 08 80 80 20 20)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 09 40 c0 10 10)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0a 40 40 10 10)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0b c0 40 10 10)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0c 80 80 20 08)
0056 + DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 0d 80 80 08 20)
0058 + DC 07-F0 MDP_XRT_ROI_SET
0059 BC (cd 0e 80 80 08 08)
0060 + DC 07-F0 MDP_XRT_ROI_SET
0061 BC (cd 0f 80 80 06 06)
0062 + DC 07-F0 MDP_XRT_ROI_SET
0063 BC (cd 10 80 80 08 08)
0064 + DC 07-F0 MDP_XRT_FLD_ENA
0065 BC (d8)
0066 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0067 BC (c8)
0068 + DC 07-F0 MDP_XRT_ARS_DIS
0069 BC (d5)
0070 + DC 07-F0 MDP_XRT_AEC_RESET
0071 BC (d0)
0072 + DC 07-F0 MDP_XRT_FLD_RESET
0073 BC (da)
0074 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0075 BC (c4 0e)
0076 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0077 BC (c5 04)
0078 . C. ----- Success Verify ? OK / NG ____
0079 C.
0080 C.
0081 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0082 C.
0083 +. DC 07-F0 MDP_XRT_MODE_OBSV
0084 BC (c2)
0085 +. TI 2023-01-31 12:13:02.0
0086 DC 07-F0 MDP_XRT_MODE_OBSV
0087 BC (c2)
0088 . C. ----- Success Verify ? OK / NG ____
0089 C.
0090 C. ***** XRT END *****
0091 C.
0092 . C. ***** MDP `ûÃíí»ò¼Y□ÈÁ□¹□èDCBC•×²è *****
0093 C. (¼°íYÖYÁYÈY¥YÉYÁYçYè□È%□□¼Á»Û¹□è)
0094 . S. DC-BC dcbc-402:DCBC
0095 (MDP_known_event)
```

0096 C.  
0097 C.  
0098 . C. \*\*\*\*\* ¥Ð¥¹•ï Daily±¿ÍÑ¤È´Ø¤¹¤èDCBC•x²è \*\*\*\*\*  
0099 . S. DC-BC dcbc-153:DCBC  
0100 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0101 C.  
0102 C.  
0103 . C. ;ãLOS¥Á¥\$¥Ã¥-¼Á»Û;ã  
0104 C.  
0105 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0106 C.



0096 C.  
0097 C.  
0098 C.  
0099 . C. \*\*\*\*\* MDP 'ûÃîñî»ò¼ŷñÊÃĐñ¹ñèDCBC•x²è \*\*\*\*\*  
0100 C. (¼á°îŷÓŷÃŷÈŷŲŷÈŷáŷçŷèñÊ¼ñ¼¼¼¼»Ûñ¹ñè)  
0101 . S. DC-BC dcbc-402:DCBC  
0102 (MDP\_known\_event)  
0103 C.  
0104 C.  
0105 . C. \*\*\*\*\* ŷĐŷ¹•Ï Daily±;îÑñÊ´Øñ¹ñèDCBC•x²è \*\*\*\*\*  
0106 . S. DC-BC dcbc-153:DCBC  
0107 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0108 C.  
0109 C.  
0110 . C. ;ãLOSŷÁŷŲŷÃŷ¬¼¼¼¼»Û;ã  
0111 C.  
0112 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0113 C.

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

|            |            |   |   |       |                |    |  |  |  |
|------------|------------|---|---|-------|----------------|----|--|--|--|
| 2023/01/31 | 12:24:00.0 | AOCS_ORe-point_Start_1_OG [0x097]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 01 03 74 01    | db |  |  |  |
| 2023/02/01 | 06:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00    | 00 |  |  |  |
| 2023/02/01 | 06:00:00.5 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 06:00:02.5 | XRT_TCIB_XRT_S_HTR_A_DIS_435_OG [0x1b3] |   |       |                |    |  |  |  |
|            |            | TCIB_XRT_S_HTR_A_DIS                    | 0 | 04-C0 |                |    |  |  |  |
| 2023/02/01 | 06:10:00.0 | AOCS_ORe-point_Start_1_OG [0x097]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 01 03 74 01    | db |  |  |  |
| 2023/02/01 | 11:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 11:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 11:59:58.0 | XRT_FOCUS_POSITION_443_OG [0x1bb]       |   |       |                |    |  |  |  |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 ff aa       | 00 |  |  |  |
| 2023/02/01 | 12:00:00.0 | AOCS_ORe-point_Start_3_OG [0x099]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 2e f9 2e f9 |    |  |  |  |
| 2023/02/01 | 12:02:52.0 | XRT_ARS_DIS_427_OG [0x1ab]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 | d5             |    |  |  |  |
| 2023/02/01 | 12:02:54.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 | c9             |    |  |  |  |
| 2023/02/01 | 12:02:56.0 | XRT_FLD_DIS_433_OG [0x1b1]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 | d9             |    |  |  |  |
| 2023/02/01 | 12:02:58.0 | XRT_QT_PROG_SET_417_OG [0x1a1]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 | c4 05          |    |  |  |  |
| 2023/02/01 | 12:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |    |  |  |  |
| 2023/02/01 | 12:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:09:58.0 | XRT_FOCUS_POSITION_443_OG [0x1bb]       |   |       |                |    |  |  |  |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 ff aa       | 00 |  |  |  |
| 2023/02/01 | 12:10:00.0 | AOCS_ORe-point_Start_4_OG [0x09a]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 2e f9 d1 07 |    |  |  |  |
| 2023/02/01 | 12:12:52.0 | XRT_ARS_DIS_427_OG [0x1ab]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 | d5             |    |  |  |  |
| 2023/02/01 | 12:12:54.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 | c9             |    |  |  |  |
| 2023/02/01 | 12:12:56.0 | XRT_FLD_DIS_433_OG [0x1b1]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 | d9             |    |  |  |  |
| 2023/02/01 | 12:12:58.0 | XRT_QT_PROG_SET_414_OG [0x19e]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 | c4 02          |    |  |  |  |
| 2023/02/01 | 12:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |    |  |  |  |
| 2023/02/01 | 12:19:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:19:56.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:19:58.0 | XRT_FOCUS_POSITION_443_OG [0x1bb]       |   |       |                |    |  |  |  |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 ff aa       | 00 |  |  |  |
| 2023/02/01 | 12:20:00.0 | AOCS_ORe-point_Start_5_OG [0x09b]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 d1 07 d1 07 |    |  |  |  |
| 2023/02/01 | 12:22:52.0 | XRT_ARS_DIS_427_OG [0x1ab]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 | d5             |    |  |  |  |
| 2023/02/01 | 12:22:54.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 | c9             |    |  |  |  |
| 2023/02/01 | 12:22:56.0 | XRT_FLD_DIS_433_OG [0x1b1]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 | d9             |    |  |  |  |
| 2023/02/01 | 12:22:58.0 | XRT_QT_PROG_SET_447_OG [0x1bf]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 | c4 01          |    |  |  |  |
| 2023/02/01 | 12:23:00.0 | XRT_CTRL_AUTO_408_OG [0x198]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |    |  |  |  |
| 2023/02/01 | 12:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:29:58.0 | XRT_FOCUS_POSITION_443_OG [0x1bb]       |   |       |                |    |  |  |  |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 ff aa       | 00 |  |  |  |
| 2023/02/01 | 12:30:00.0 | AOCS_ORe-point_Start_6_OG [0x09c]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 d1 07 2e f9 |    |  |  |  |
| 2023/02/01 | 12:32:52.0 | XRT_ARS_DIS_427_OG [0x1ab]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 | d5             |    |  |  |  |
| 2023/02/01 | 12:32:54.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 | c9             |    |  |  |  |
| 2023/02/01 | 12:32:56.0 | XRT_FLD_DIS_433_OG [0x1b1]              |   |       |                |    |  |  |  |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 | d9             |    |  |  |  |
| 2023/02/01 | 12:32:58.0 | XRT_QT_PROG_SET_431_OG [0x1af]          |   |       |                |    |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 | c4 0c          |    |  |  |  |
| 2023/02/01 | 12:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |    |  |  |  |
| 2023/02/01 | 12:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |    |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |    |  |  |  |
| 2023/02/01 | 12:39:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]       |   |       |                |    |  |  |  |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 ff aa       | 00 |  |  |  |
| 2023/02/01 | 12:40:00.0 | AOCS_ORe-point_Start_2_OG [0x098]       |   |       |                |    |  |  |  |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00 00 | 00 |  |  |  |
| 2023/02/01 | 12:40:18.0 | XRT_FLD_DIS_409_OG [0x199]              |   |       |                |    |  |  |  |

|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2023/02/01 | 12:40:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
|            |            |                                   | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2023/02/01 | 12:40:22.0 | XRT_ARS_DIS_421_OG [0x1a5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2023/02/01 | 12:42:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |
| 2023/02/01 | 12:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2023/02/01 | 12:49:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 12:49:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 12:49:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2023/02/01 | 12:50:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | AOCU_NM             | 5 | 02-76 | 01 03 74 01 db |
| 2023/02/01 | 12:50:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2023/02/01 | 12:50:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2023/02/01 | 12:50:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2023/02/01 | 12:50:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2023/02/01 | 12:50:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2023/02/01 | 12:52:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2023/02/01 | 12:52:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |
| 2023/02/01 | 12:53:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2023/02/01 | 15:41:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 15:41:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2023/02/01 | 15:41:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2023/02/01 | 15:44:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2023/02/01 | 15:52:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2023/02/01 | 15:53:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2023/02/01 | 17:16:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 17:16:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2023/02/01 | 17:16:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2023/02/01 | 17:19:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2023/02/01 | 17:40:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2023/02/01 | 17:41:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2023/02/01 | 17:55:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 17:55:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 17:55:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2023/02/01 | 17:56:00.0 | AOCS_OrE-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2023/02/01 | 17:56:18.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2023/02/01 | 17:56:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2023/02/01 | 17:56:22.0 | XRT_ARS_DIS_421_OG [0x1a5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2023/02/01 | 17:58:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |
| 2023/02/01 | 17:59:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2023/02/01 | 18:05:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 18:05:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2023/02/01 | 18:05:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2023/02/01 | 18:06:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | AOCU_NM             | 5 | 02-76 | 01 03 74 01 db |
| 2023/02/01 | 18:06:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2023/02/01 | 18:06:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2023/02/01 | 18:06:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2023/02/01 | 18:06:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2023/02/01 | 18:06:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2023/02/01 | 18:08:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |

|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2023/02/01 | 18:08:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2023/02/01 | 18:09:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/01 | 18:53:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/01 | 18:53:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/01 | 18:53:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/01 | 18:56:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/01 | 19:16:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/01 | 19:17:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/01 | 20:30:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/01 | 20:30:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/01 | 20:30:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/01 | 20:33:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/01 | 20:53:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/01 | 20:54:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/01 | 22:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/01 | 22:07:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/01 | 22:07:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/01 | 22:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/01 | 22:30:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/01 | 22:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/01 | 23:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/01 | 23:44:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/01 | 23:44:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/01 | 23:47:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/02 | 00:05:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/02 | 00:06:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/02 | 01:21:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/02 | 01:21:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/02 | 01:21:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/02 | 01:24:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/02 | 01:29:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/02 | 01:30:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/02 | 02:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/02 | 02:45:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/02 | 02:45:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/02 | 02:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/02 | 03:04:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/02 | 03:05:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/02 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/02 | 03:59:56.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2023/02/02 | 04:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2023/02/02 | 04:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2023/02/02 | 04:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2023/02/02 | 04:00:20.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2023/02/02 | 04:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2023/02/02 | 04:00:24.0 | XRT_FLD_RESET_425_OG [0x1a9]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/02 | 04:02:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 12 |    |    |    |
| 2023/02/02 | 04:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2023/02/02 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/02 | 04:20:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |

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|            |            |                                   |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|-----------------------------------|---|-------|----------------|--|--|
| 2023/02/02 | 04:20:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2023/02/02 | 04:20:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
|            |            |                                   | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2023/02/02 | 04:23:44.0 | XRT_CUSTOM_430_OG [0x1ae]         | XRT_CUSTOM_430_OG [0x1ae]         |   |       |                |  |  |
|            |            |                                   | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
| 2023/02/02 | 04:41:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2023/02/02 | 04:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2023/02/02 | 05:51:00.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
|            |            |                                   | XRT_PREFLR_STRT_403_OG [0x193]    | 1 | 07-F0 | e8             |  |  |
| 2023/02/02 | 05:51:02.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
|            |            |                                   | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9             |  |  |
| 2023/02/02 | 05:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
|            |            |                                   | XRT_CUSTOM_430_OG [0x1ae]         |   |       |                |  |  |
| 2023/02/02 | 06:18:30.5 | XRT_CUSTOM_430_OG [0x1ae]         | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
| 2023/02/02 | 06:19:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
|            |            |                                   | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |  |  |
| 2023/02/02 | 06:27:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2023/02/02 | 06:27:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | XRT_FOCUS_POSITION_406_OG [0x196] | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2023/02/02 | 06:27:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
|            |            |                                   | XRT_FLD_DIS_409_OG [0x199]        | 1 | 07-F0 | d9             |  |  |
| 2023/02/02 | 06:28:18.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |
|            |            |                                   | XRT_FLRCTRL_DIS_413_OG [0x19d]    | 1 | 07-F0 | c9             |  |  |
| 2023/02/02 | 06:28:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |
|            |            |                                   | XRT_ARS_DIS_421_OG [0x1a5]        | 1 | 07-F0 | d5             |  |  |
| 2023/02/02 | 06:28:22.0 | XRT_ARS_DIS_421_OG [0x1a5]        | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
|            |            |                                   | XRT_QT_PROG_SET_420_OG [0x1a4]    | 2 | 07-F0 | c4 03          |  |  |
| 2023/02/02 | 06:30:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |  |  |
|            |            |                                   | XRT_CTRL_AUTO_408_OG [0x198]      | 1 | 07-F0 | c0             |  |  |
| 2023/02/02 | 06:31:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
|            |            |                                   | XRT_CTRL_MANU_402_OG [0x192]      | 1 | 07-F0 | c1             |  |  |
| 2023/02/02 | 06:37:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2023/02/02 | 06:37:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | XRT_FOCUS_POSITION_410_OG [0x19a] | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2023/02/02 | 06:37:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
|            |            |                                   | AOCS_OrE-point_Start_1_OG [0x097] | 5 | 02-76 | 01 03 74 01 db |  |  |
| 2023/02/02 | 06:38:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | AOCU_NM                           | 5 | 02-76 | 01 03 74 01 db |  |  |
|            |            |                                   | XRT_FLD_ENA_411_OG [0x19b]        | 1 | 07-F0 | d8             |  |  |
| 2023/02/02 | 06:38:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
|            |            |                                   | XRT_FLRCTRL_ENA_412_OG [0x19c]    | 1 | 07-F0 | c8             |  |  |
| 2023/02/02 | 06:38:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
|            |            |                                   | XRT_AEC_RESET_448_OG [0x1c0]      | 1 | 07-F0 | d0             |  |  |
| 2023/02/02 | 06:38:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
|            |            |                                   | XRT_ARS_DIS_423_OG [0x1a7]        | 1 | 07-F0 | d5             |  |  |
| 2023/02/02 | 06:38:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
|            |            |                                   | XRT_FLD_RESET_434_OG [0x1b2]      | 1 | 07-F0 | da             |  |  |
| 2023/02/02 | 06:38:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
|            |            |                                   | XRT_QT_PROG_SET_440_OG [0x1b8]    | 2 | 07-F0 | c4 11          |  |  |
| 2023/02/02 | 06:40:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |
|            |            |                                   | XRT_FL_PROG_SET_418_OG [0x1a2]    | 2 | 07-F0 | c5 04          |  |  |
| 2023/02/02 | 06:40:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |
|            |            |                                   | XRT_CTRL_AUTO_408_OG [0x198]      | 1 | 07-F0 | c0             |  |  |
| 2023/02/02 | 06:41:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
|            |            |                                   | XRT_CTRL_MANU_400_OG [0x190]      | 1 | 07-F0 | c1             |  |  |
| 2023/02/02 | 07:31:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | XRT_FLD_RESET_415_OG [0x19f]      | 1 | 07-F0 | da             |  |  |
| 2023/02/02 | 07:31:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
|            |            |                                   | XRT_PREFLR_STRT_403_OG [0x193]    | 1 | 07-F0 | e8             |  |  |
| 2023/02/02 | 07:31:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
|            |            |                                   | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9             |  |  |
| 2023/02/02 | 07:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
|            |            |                                   | XRT_CUSTOM_430_OG [0x1ae]         |   |       |                |  |  |
| 2023/02/02 | 07:56:00.0 | XRT_CUSTOM_430_OG [0x1ae]         | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
| 2023/02/02 | 07:57:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
|            |            |                                   | XRT_CTRL_MANU_400_OG [0x190]      | 1 | 07-F0 | c1             |  |  |
| 2023/02/02 | 09:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2023/02/02 | 09:11:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
|            |            |                                   | XRT_PREFLR_STRT_403_OG [0x193]    | 1 | 07-F0 | e8             |  |  |
| 2023/02/02 | 09:11:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
|            |            |                                   | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9             |  |  |
| 2023/02/02 | 09:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
|            |            |                                   | XRT_CUSTOM_430_OG [0x1ae]         |   |       |                |  |  |
| 2023/02/02 | 09:32:30.0 | XRT_CUSTOM_430_OG [0x1ae]         | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
| 2023/02/02 | 09:33:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
|            |            |                                   | XRT_CTRL_MANU_400_OG [0x190]      | 1 | 07-F0 | c1             |  |  |
| 2023/02/02 | 10:51:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
|            |            |                                   | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2023/02/02 | 10:51:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
|            |            |                                   | XRT_PREFLR_STRT_403_OG [0x193]    | 1 | 07-F0 | e8             |  |  |
| 2023/02/02 | 10:51:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
|            |            |                                   | XRT_PREFLR_STOP_419_OG [0x1a3]    | 1 | 07-F0 | e9             |  |  |
| 2023/02/02 | 10:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
|            |            |                                   | XRT_CUSTOM_430_OG [0x1ae]         |   |       |                |  |  |
| 2023/02/02 | 11:06:00.0 | XRT_CUSTOM_430_OG [0x1ae]         | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
| 2023/02/02 | 11:07:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |                                   |   |       |                |  |  |







|            |            |                                   |                     |   |       |    |             |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2023/02/03 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
|            |            |                                   | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2023/02/03 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2023/02/03 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2023/02/03 | 06:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/03 | 06:12:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0d          |
| 2023/02/03 | 06:12:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2023/02/03 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/03 | 06:26:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/03 | 06:26:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/03 | 06:26:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/03 | 06:29:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/03 | 06:53:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2023/02/03 | 06:54:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/03 | 08:07:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/03 | 08:07:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/03 | 08:07:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/03 | 08:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/03 | 08:30:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2023/02/03 | 08:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/03 | 09:46:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/03 | 09:46:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/03 | 09:46:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/03 | 09:49:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/03 | 10:07:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2023/02/03 | 10:08:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/03 | 11:28:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/03 | 11:28:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/03 | 11:28:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/03 | 11:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/03 | 11:29:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2023/02/03 | 11:30:00.0 | AOCS_OrE-point_Start_8_OG [0x09e] | AOCU_NM             | 5 | 02-76 | 00 | b3 75 01 db |
| 2023/02/03 | 11:30:16.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2023/02/03 | 11:30:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2023/02/03 | 11:30:20.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2023/02/03 | 11:30:22.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2023/02/03 | 11:30:24.0 | XRT_FLD_RESET_425_OG [0x1a9]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/03 | 11:31:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/03 | 11:32:56.0 | XRT_QT_PROG_SET_401_OG [0x191]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 09          |
| 2023/02/03 | 11:32:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2023/02/03 | 11:36:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2023/02/03 | 11:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/03 | 15:16:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/03 | 15:16:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/03 | 15:16:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/03 | 15:19:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/03 | 15:23:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2023/02/03 | 15:24:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/03 | 16:49:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/03 | 16:49:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |                     |   |       |    |             |

|            |            |                                   |                     |   |       |                |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|
| 2023/02/03 | 16:49:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2023/02/03 | 16:52:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2023/02/03 | 17:12:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2023/02/03 | 17:13:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2023/02/03 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 17:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2023/02/03 | 18:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2023/02/03 | 18:00:18.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |  |
| 2023/02/03 | 18:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |  |
| 2023/02/03 | 18:00:22.0 | XRT_ARS_DIS_421_OG [0x1a5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2023/02/03 | 18:02:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |  |  |
| 2023/02/03 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2023/02/03 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 18:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2023/02/03 | 18:10:00.0 | AOCS_Ore-point_Start_7_OG [0x09d] | AOCU_NM             | 5 | 02-76 | 02 03 74 01 db |  |  |
| 2023/02/03 | 18:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2023/02/03 | 18:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |
| 2023/02/03 | 18:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |
| 2023/02/03 | 18:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2023/02/03 | 18:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2023/02/03 | 18:12:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d          |  |  |
| 2023/02/03 | 18:12:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |
| 2023/02/03 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2023/02/03 | 18:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 18:25:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2023/02/03 | 18:25:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2023/02/03 | 18:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2023/02/03 | 18:49:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2023/02/03 | 18:50:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2023/02/03 | 20:02:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 20:02:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2023/02/03 | 20:02:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2023/02/03 | 20:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2023/02/03 | 20:25:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2023/02/03 | 20:26:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2023/02/03 | 21:39:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 21:39:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2023/02/03 | 21:39:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2023/02/03 | 21:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2023/02/03 | 22:03:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2023/02/03 | 22:04:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2023/02/03 | 22:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 22:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2023/02/03 | 22:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2023/02/03 | 22:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2023/02/03 | 22:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2023/02/03 | 22:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2023/02/03 | 22:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2023/02/03 | 22:30:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/03 | 22:32:56.0 | XRT_QT_PROG_SET_439_OG [0x1b7]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 07          |  |  |  |  |
| 2023/02/03 | 22:32:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2023/02/03 | 23:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/03 | 23:17:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/03 | 23:17:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/03 | 23:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/03 | 23:30:00.0 | AOCS_Ore-point_Start_9_OG [0x09f] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 03 74 01 db |  |  |  |  |
| 2023/02/03 | 23:38:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2023/02/03 | 23:39:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 00:54:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 00:54:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 00:54:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 00:57:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 01:03:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2023/02/04 | 01:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 02:19:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 02:19:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 02:19:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 02:22:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 02:37:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2023/02/04 | 02:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 02:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 02:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 02:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2023/02/04 | 03:00:00.0 | AOCS_Ore-point_Start_7_OG [0x09d] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 03 74 01 db |  |  |  |  |
| 2023/02/04 | 03:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2023/02/04 | 03:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2023/02/04 | 03:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2023/02/04 | 03:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2023/02/04 | 03:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 03:02:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |  |  |  |  |
| 2023/02/04 | 03:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2023/02/04 | 03:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 03:52:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 03:52:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 03:52:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 03:55:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 03:59:56.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2023/02/04 | 04:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2023/02/04 | 04:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2023/02/04 | 04:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2023/02/04 | 04:00:20.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2023/02/04 | 04:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2023/02/04 | 04:00:24.0 | XRT_FLD_RESET_425_OG [0x1a9]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |

|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2023/02/04 | 04:02:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 12 |    |    |    |
| 2023/02/04 | 04:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2023/02/04 | 04:13:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/04 | 04:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/04 | 05:22:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 05:22:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/04 | 05:22:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/04 | 05:25:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/04 | 05:51:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/04 | 05:52:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/04 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 05:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2023/02/04 | 06:00:18.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9 |    |    |    |    |
| 2023/02/04 | 06:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9 |    |    |    |    |
| 2023/02/04 | 06:00:22.0 | XRT_ARS_DIS_421_OG [0x1a5]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2023/02/04 | 06:02:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 03 |    |    |    |
| 2023/02/04 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/04 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 06:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2023/02/04 | 06:10:00.0 | AOCS_Or-point_Start_7_OG [0x09d]  |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 | 03 | 74 | 01 | db |
| 2023/02/04 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2023/02/04 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2023/02/04 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2023/02/04 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2023/02/04 | 06:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/04 | 06:12:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 0d |    |    |    |
| 2023/02/04 | 06:12:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2023/02/04 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/04 | 07:02:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 07:02:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/04 | 07:02:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/04 | 07:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/04 | 07:28:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/04 | 07:29:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/04 | 08:42:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 08:42:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/04 | 08:42:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/04 | 08:45:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/04 | 09:05:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/04 | 09:06:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/04 | 10:22:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/04 | 10:22:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/04 | 10:22:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/04 | 10:25:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/04 | 10:40:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2023/02/04 | 10:41:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/04 | 15:48:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |

|            |            |                                   |                     |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|--|--|
| 2023/02/04 | 15:48:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 15:48:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 15:51:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 16:00:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2023/02/04 | 16:01:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 17:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 17:23:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 17:23:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 17:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 17:47:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2023/02/04 | 17:48:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 18:01:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 18:01:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 18:01:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2023/02/04 | 18:02:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2023/02/04 | 18:02:18.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |  |  |  |
| 2023/02/04 | 18:02:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |  |  |  |
| 2023/02/04 | 18:02:22.0 | XRT_ARS_DIS_421_OG [0x1a5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2023/02/04 | 18:04:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |  |  |  |  |
| 2023/02/04 | 18:05:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 18:11:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 18:11:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 18:11:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2023/02/04 | 18:12:00.0 | AOCS_Ore-point_Start_7_OG [0x09d] | AOCU_NM             | 5 | 02-76 | 02 03 74 01 db |  |  |  |  |
| 2023/02/04 | 18:12:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |
| 2023/02/04 | 18:12:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |  |
| 2023/02/04 | 18:12:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |  |  |
| 2023/02/04 | 18:12:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2023/02/04 | 18:12:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 18:14:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d          |  |  |  |  |
| 2023/02/04 | 18:14:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2023/02/04 | 18:15:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 19:00:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 19:00:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 19:00:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 19:03:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 19:23:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2023/02/04 | 19:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 20:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 20:37:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 20:37:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 20:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 21:00:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |
| 2023/02/04 | 21:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/04 | 22:14:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/04 | 22:14:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/04 | 22:14:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/04 | 22:17:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/04 | 22:37:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |  |





|            |            |                                    |                     |   |       |    |             |
|------------|------------|------------------------------------|---------------------|---|-------|----|-------------|
| 2023/02/05 | 05:41:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
|            |            |                                    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2023/02/05 | 05:41:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2023/02/05 | 05:41:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2023/02/05 | 05:41:56.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/05 | 05:44:26.0 | XRT_QT_PROG_SET_432_OG [0x1b0]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0d          |
| 2023/02/05 | 05:44:28.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2023/02/05 | 05:44:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/05 | 05:58:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/05 | 05:58:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/05 | 05:58:04.0 | XRT_PREFLR_STRT_403_OG [0x193]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/05 | 06:01:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/05 | 06:25:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2023/02/05 | 06:26:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/05 | 07:38:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/05 | 07:38:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/05 | 07:38:34.0 | XRT_PREFLR_STRT_403_OG [0x193]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/05 | 07:41:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/05 | 08:03:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2023/02/05 | 08:04:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/05 | 09:18:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/05 | 09:18:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/05 | 09:18:04.0 | XRT_PREFLR_STRT_403_OG [0x193]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/05 | 09:21:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/05 | 09:39:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2023/02/05 | 09:40:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/05 | 10:58:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/05 | 10:58:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/05 | 10:58:34.0 | XRT_PREFLR_STRT_403_OG [0x193]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/05 | 11:01:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/05 | 11:12:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2023/02/05 | 11:13:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/05 | 11:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/05 | 11:29:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2023/02/05 | 11:30:00.0 | AOCS_Ore-point_Start_10_OG [0x0a0] | AOCU_NM             | 5 | 02-76 | 00 | 55 3f 01 db |
| 2023/02/05 | 11:30:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2023/02/05 | 11:30:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2023/02/05 | 11:30:20.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2023/02/05 | 11:30:22.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2023/02/05 | 11:30:24.0 | XRT_FLD_RESET_425_OG [0x1a9]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/05 | 11:32:56.0 | XRT_QT_PROG_SET_401_OG [0x191]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 09          |
| 2023/02/05 | 11:32:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2023/02/05 | 11:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/05 | 16:22:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2023/02/05 | 16:22:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2023/02/05 | 16:22:04.0 | XRT_PREFLR_STRT_403_OG [0x193]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2023/02/05 | 16:25:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2023/02/05 | 16:45:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2023/02/05 | 16:46:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2023/02/05 | 17:57:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |                     |   |       |    |             |

|            |            |                                   |                           |   |       |                |  |  |
|------------|------------|-----------------------------------|---------------------------|---|-------|----------------|--|--|
| 2023/02/05 | 17:57:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 17:57:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2023/02/05 | 18:00:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |  |  |
| 2023/02/05 | 18:21:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |  |  |
| 2023/02/05 | 18:21:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 18:21:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 18:21:30.0 | AOCS_OrE-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2023/02/05 | 18:21:48.0 | XRT_FLD_DIS_409_OG [0x199]        | AOCU_NM                   | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2023/02/05 | 18:21:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |  |  |
| 2023/02/05 | 18:21:52.0 | XRT_ARS_DIS_421_OG [0x1a5]        | MDP_XRT_FLRCTRL_DIS       | 1 | 07-F0 | c9             |  |  |
| 2023/02/05 | 18:24:28.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |  |  |
| 2023/02/05 | 18:24:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 03          |  |  |
| 2023/02/05 | 18:31:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2023/02/05 | 18:31:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 18:31:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 18:31:30.0 | AOCS_OrE-point_Start_7_OG [0x09d] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2023/02/05 | 18:31:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM                   | 5 | 02-76 | 02 03 74 01 db |  |  |
| 2023/02/05 | 18:31:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |  |  |
| 2023/02/05 | 18:31:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |  |  |
| 2023/02/05 | 18:31:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |  |  |
| 2023/02/05 | 18:31:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |  |  |
| 2023/02/05 | 18:34:26.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2023/02/05 | 18:34:28.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 0d          |  |  |
| 2023/02/05 | 18:34:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 04          |  |  |
| 2023/02/05 | 19:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2023/02/05 | 19:35:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 19:35:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2023/02/05 | 19:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |  |  |
| 2023/02/05 | 19:58:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |  |  |
| 2023/02/05 | 19:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
| 2023/02/05 | 21:12:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2023/02/05 | 21:12:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 21:12:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2023/02/05 | 21:15:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |  |  |
| 2023/02/05 | 21:35:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |  |  |
| 2023/02/05 | 21:36:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
| 2023/02/05 | 22:49:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2023/02/05 | 22:49:02.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/05 | 22:49:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2023/02/05 | 22:52:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |  |  |
| 2023/02/05 | 23:11:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |  |  |
| 2023/02/05 | 23:12:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
| 2023/02/06 | 00:26:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2023/02/06 | 00:26:32.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2023/02/06 | 00:26:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2023/02/06 | 00:29:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |  |  |
| 2023/02/06 | 00:39:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |  |  |
| 2023/02/06 | 00:40:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
|            |            |                                   | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |



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|            |            |                                      |   |       |                |  |  |  |  |
|------------|------------|--------------------------------------|---|-------|----------------|--|--|--|--|
| 2023/02/06 | 06:18:30.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 06:34:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 06:34:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/06 | 06:34:04.0 | XRT_PREFLR_STRT_403_OG [0x193]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/06 | 06:37:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/06 | 07:00:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2023/02/06 | 07:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 08:14:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 08:14:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/06 | 08:14:04.0 | XRT_PREFLR_STRT_403_OG [0x193]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/06 | 08:17:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/06 | 08:37:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2023/02/06 | 08:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 09:53:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 09:53:32.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/06 | 09:53:34.0 | XRT_PREFLR_STRT_403_OG [0x193]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/06 | 09:56:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/06 | 10:13:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2023/02/06 | 10:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 11:35:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 11:35:32.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/06 | 11:35:34.0 | XRT_PREFLR_STRT_403_OG [0x193]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/06 | 11:38:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/06 | 11:41:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2023/02/06 | 11:42:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 15:22:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 15:22:32.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/06 | 15:22:34.0 | XRT_PREFLR_STRT_403_OG [0x193]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/06 | 15:25:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/06 | 15:30:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2023/02/06 | 15:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 16:56:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 16:56:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |  |  |
| 2023/02/06 | 16:56:04.0 | XRT_PREFLR_STRT_403_OG [0x193]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |  |  |
| 2023/02/06 | 16:59:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |  |  |
| 2023/02/06 | 17:19:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |  |  |
| 2023/02/06 | 17:20:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 17:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]    |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2023/02/06 | 18:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098]    |   |       |                |  |  |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2023/02/06 | 18:00:18.0 | XRT_FLD_DIS_409_OG [0x199]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |  |  |  |  |
| 2023/02/06 | 18:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |  |  |  |  |
| 2023/02/06 | 18:00:22.0 | XRT_ARS_DIS_421_OG [0x1a5]           |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |  |  |
| 2023/02/06 | 18:02:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 03          |  |  |  |  |
| 2023/02/06 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |  |  |
| 2023/02/06 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |  |  |
| 2023/02/06 | 18:09:58.0 | XRT_FOCUS_RECALIBRATE_445_OG [0x1bd] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |  |  |  |  |
| 2023/02/06 | 18:10:00.0 | AOCS_Ore-point_Start_7_OG [0x09d]    |   |       |                |  |  |  |  |

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|            |            |                                   |         |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---------|---|-------|----|----|----|----|----|
| 2023/02/06 | 18:13:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | AOCU_NM | 5 | 02-76 | 02 | 03 | 74 | 01 | db |
|            |            | XRT_FOCUS_POSITION                |         | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2023/02/06 | 18:14:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   |         | 1 | 07-F0 | d8 |    |    |    |    |
| 2023/02/06 | 18:14:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               |         | 1 | 07-F0 | c8 |    |    |    |    |
| 2023/02/06 | 18:14:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 |         | 1 | 07-F0 | d0 |    |    |    |    |
| 2023/02/06 | 18:14:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   |         | 1 | 07-F0 | d5 |    |    |    |    |
| 2023/02/06 | 18:14:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/06 | 18:16:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               |         | 2 | 07-F0 | c4 | 0d |    |    |    |
| 2023/02/06 | 18:16:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               |         | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2023/02/06 | 18:17:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/06 | 18:32:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/06 | 18:32:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/06 | 18:32:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/06 | 18:35:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/06 | 18:56:00.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2023/02/06 | 18:57:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/06 | 20:09:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/06 | 20:09:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/06 | 20:09:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/06 | 20:12:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/06 | 20:32:30.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2023/02/06 | 20:33:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/06 | 21:46:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/06 | 21:46:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/06 | 21:46:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/06 | 21:49:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/06 | 22:10:00.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2023/02/06 | 22:11:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/06 | 23:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/06 | 23:24:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/06 | 23:24:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/06 | 23:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/06 | 23:45:00.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2023/02/06 | 23:46:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/07 | 01:01:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/07 | 01:01:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/07 | 01:01:04.0 | XRT_PREFLR_STRT_403_OG [0x193]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/07 | 01:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/07 | 01:10:00.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2023/02/07 | 01:11:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/07 | 02:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/07 | 02:25:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/07 | 02:25:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/07 | 02:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               |         | 1 | 07-F0 | e9 |    |    |    |    |
| 2023/02/07 | 02:44:00.0 | XRT_Custom_430_OG [0x1ae]         |         |   |       |    |    |    |    |    |
| 2023/02/07 | 02:45:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 |         | 1 | 07-F0 | c0 |    |    |    |    |
| 2023/02/07 | 03:59:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |
| 2023/02/07 | 03:59:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 |         | 1 | 07-F0 | da |    |    |    |    |
| 2023/02/07 | 03:59:34.0 | XRT_PREFLR_STRT_403_OG [0x193]    |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               |         | 1 | 07-F0 | e8 |    |    |    |    |
| 2023/02/07 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 |         | 1 | 07-F0 | c1 |    |    |    |    |

|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2023/02/07 | 03:59:56.0 | XRT_FOCUS_POSITION_406_OG [0x196]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2023/02/07 | 04:00:00.0 | AOCs_Ore-point_Start_2_OG [0x098]<br>AOCU_NM            | 5 | 02-76 | 00 00 00 00 00 |
| 2023/02/07 | 04:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2023/02/07 | 04:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2023/02/07 | 04:00:20.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2023/02/07 | 04:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2023/02/07 | 04:00:24.0 | XRT_FLD_RESET_425_OG [0x1a9]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2023/02/07 | 04:02:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2023/02/07 | 04:02:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 12          |
| 2023/02/07 | 04:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 04          |
| 2023/02/07 | 04:20:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2023/02/07 | 04:21:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2023/02/07 | 05:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2023/02/07 | 05:29:32.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2023/02/07 | 05:29:34.0 | XRT_PREFLR_STRT_403_OG [0x193]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2023/02/07 | 05:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2023/02/07 | 05:58:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2023/02/07 | 05:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2023/02/07 | 06:06:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2023/02/07 | 06:06:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2023/02/07 | 06:06:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2023/02/07 | 06:07:18.0 | XRT_FLD_DIS_409_OG [0x199]<br>MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2023/02/07 | 06:07:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]<br>MDP_XRT_FLRCTRL_DIS   | 1 | 07-F0 | c9             |
| 2023/02/07 | 06:07:22.0 | XRT_ARS_DIS_421_OG [0x1a5]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2023/02/07 | 06:09:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 03          |
| 2023/02/07 | 06:10:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2023/02/07 | 06:16:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2023/02/07 | 06:16:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2023/02/07 | 06:16:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2023/02/07 | 06:17:00.0 | AOCs_Ore-point_Start_7_OG [0x09d]<br>AOCU_NM            | 5 | 02-76 | 02 03 74 01 db |
| 2023/02/07 | 06:17:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2023/02/07 | 06:17:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2023/02/07 | 06:17:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2023/02/07 | 06:17:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2023/02/07 | 06:17:26.0 | XRT_FLD_RESET_434_OG [0x1b2]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2023/02/07 | 06:19:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 0d          |
| 2023/02/07 | 06:19:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 04          |
| 2023/02/07 | 06:20:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2023/02/07 | 07:09:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2023/02/07 | 07:09:32.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2023/02/07 | 07:09:34.0 | XRT_PREFLR_STRT_403_OG [0x193]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2023/02/07 | 07:12:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2023/02/07 | 07:35:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2023/02/07 | 07:36:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2023/02/07 | 08:50:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2023/02/07 | 08:50:02.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2023/02/07 | 08:50:04.0 | XRT_PREFLR_STRT_403_OG [0x193]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2023/02/07 | 08:53:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |

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|            |            |                                  |   |       |                |
|------------|------------|----------------------------------|---|-------|----------------|
| 2023/02/07 | 09:12:00.0 | XRT_Custom_430_OG [0x1ae]        |   |       |                |
| 2023/02/07 | 09:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]     |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                | 1 | 07-F0 | c0             |
| 2023/02/07 | 10:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]     |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                | 1 | 07-F0 | c1             |
| 2023/02/07 | 10:29:32.0 | XRT_FLD_RESET_415_OG [0x19f]     |   |       |                |
|            |            | MDP_XRT_FLD_RESET                | 1 | 07-F0 | da             |
| 2023/02/07 | 10:29:34.0 | XRT_PREFLR_STRT_403_OG [0x193]   |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT              | 1 | 07-F0 | e8             |
| 2023/02/07 | 10:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]   |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP              | 1 | 07-F0 | e9             |
| 2023/02/07 | 10:47:00.0 | XRT_Custom_430_OG [0x1ae]        |   |       |                |
| 2023/02/07 | 10:48:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]     |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                | 1 | 07-F0 | c0             |
| 2023/02/07 | 11:15:45.0 | XRT_CTRL_MANU_402_OG [0x192]     |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                | 1 | 07-F0 | c1             |
| 2023/02/07 | 11:37:00.0 | AOCS_Or-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                          | 5 | 02-76 | 00 00 00 00 00 |