

## Period: 2025/01/14 11:35:00 - 2025/01/18 11:06:00

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| XOB #1D06: CCD Monitor During Bakeout - G-band 1ms - 1kx1k - Q90 - 4th Quadrant -All/mesh(2048ms) - 1x1, All/Poly(1443ms) - 2x2 - w leak image-1msCCD |               |               |                        |      |      |     |          |         |                       |      |   |   |        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|------------------------|------|------|-----|----------|---------|-----------------------|------|---|---|--------|--|
| Term                                                                                                                                                  |               |               | Pointing (x, y)        |      |      |     |          | Comment |                       |      |   |   |        |  |
| 01/15 12:33:00 - 01/15 12:39:54                                                                                                                       |               |               | Fixed ( -528.4, 528.4) |      |      |     |          | # 4/4   |                       |      |   |   |        |  |
| PROG= 02                                                                                                                                              |               | 1-time(s)     |                        |      |      |     |          |         |                       |      |   |   |        |  |
| 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)     |                        |      |      |     | 120.0sec |         |                       |      |   |   |        |  |

|                                             |                |       |      |       |       |     |     |                        |       |            |          |        |  |
|---------------------------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|--|
| <b>Seqn= 93      2-time(s)      2.0sec</b>  |                |       |      |       |       |     |     |                        |       |            |          |        |  |
| Open/Al-mesh                                | Open/thick-Al  | close | Safe | Norm  | 2.00s | Obs | 1x1 | 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 |  |
| <b>Subr= 3      2-time(s)      2.0sec</b>   |                |       |      |       |       |     |     |                        |       |            |          |        |  |
| <b>Seqn= 34      1-time(s)      60.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |  |
| 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 #1D19: Synoptic 8 Filter w/ Al-mesh(3/128/723), Al-poly(5/181/1443), Thin-Be(24/512/4096), Thick-Be(32768), Med-Al(181/5795/32768), Med-Be(88/4096/

| Term                            | Pointing (x, y)   | Comment                               |
|---------------------------------|-------------------|---------------------------------------|
| 01/15 12:43:00 - 01/15 12:49:54 | Fixed ( 0.0, 0.0) | # Extra synoptic                      |
| 01/15 18:07:00 - 01/15 18:13:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 4.0 min             |
| 01/16 05:50:30 - 01/16 05:57:24 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted -12.5 min |

|                                            |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
|--------------------------------------------|------------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|--|
| <b>PROG= 03      1-time(s)</b>             |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| <b>Subr= 1      1-time(s)      2.0sec</b>  |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| <b>Seqn= 5      1-time(s)      2.0sec</b>  |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| Open/Ti-poly                               | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |
| Open/Ti-poly                               | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |
| Open/Ti-poly                               | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |
| Open/Ti-poly                               | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 1x1 | 2048x512 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |  |
| Open/Ti-poly                               | Open/thick-Al    | close | Safe | Dark  | 500ms | Obs | 1x1 | 512x2048 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |  |
| <b>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= 98      1-time(s)      2.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| Al-poly/Open                               | Al-poly/Open     | close | Safe | Norm  | 5ms   | 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= 76      1-time(s)      2.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| thin-Be/Open                               | thin-Be/Open     | close | Safe | Norm  | 24ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| thin-Be/Open                               | thin-Be/Open     | close | Safe | Norm  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| thin-Be/Open                               | thin-Be/Open     | close | Safe | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| <b>Seqn= 23      1-time(s)      4.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| 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 |  |
| <b>Subr= 2      1-time(s)      2.0sec</b>  |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| <b>Seqn= 41      1-time(s)      2.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| Open/thick-Be                              | Open/thick-Be    | close | Safe | Norm  | 32.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |
| <b>Seqn= 18      1-time(s)      2.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| med-Al/Open                                | med-Al/thick-Al  | close | Safe | Norm  | 177ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| med-Al/Open                                | med-Al/Open      | close | Safe | Norm  | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| med-Al/Open                                | med-Al/Open      | close | Safe | Norm  | 32.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| <b>Seqn= 86      1-time(s)      2.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| med-Be/Open                                | Open/thick-Al    | close | Safe | Norm  | 86ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| med-Be/Open                                | med-Be/Open      | close | Safe | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| med-Be/Open                                | med-Be/Open      | close | Safe | Norm  | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| <b>Seqn= 54      1-time(s)      2.0sec</b> |                  |       |      |       |       |     |     |                        |       |            |          |        |  |
| Al-poly/Ti-poly                            | Al-poly/thick-Al | close | Safe | Norm  | 12ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |
| Al-poly/Ti-poly                            | Al-poly/thick-Al | close | Safe | Norm  | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |
| Default Filter                             | Thicker Filter   | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |  |

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

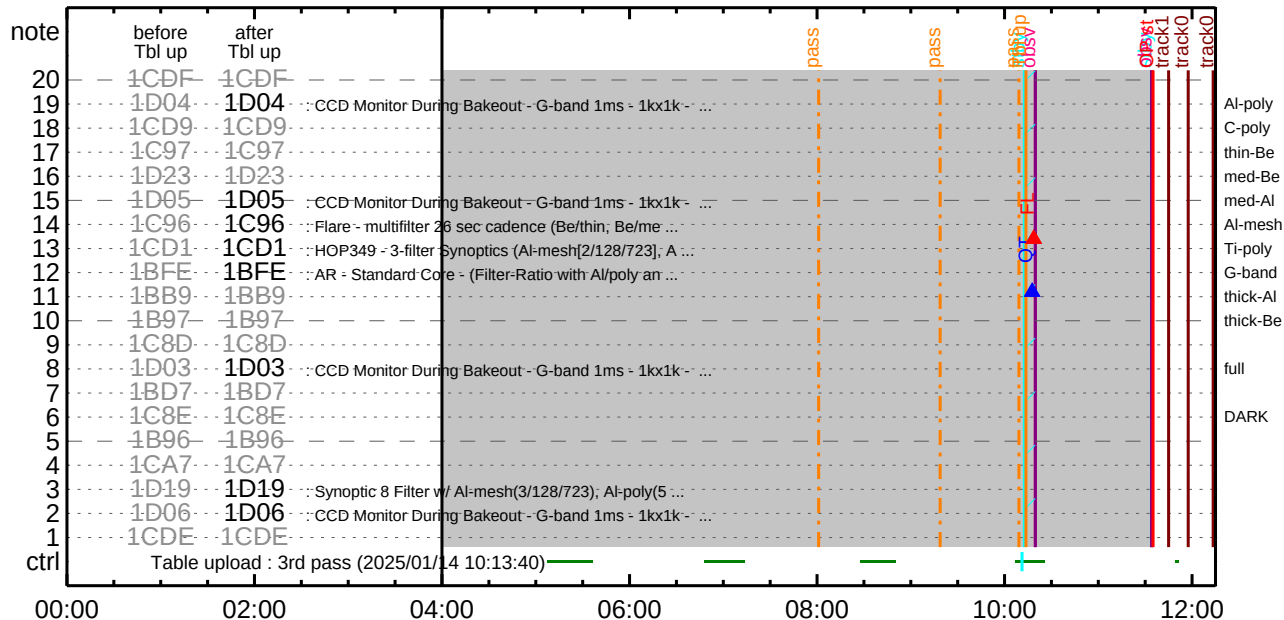
| Term                            | Pointing (x, y)                        | Comment   |
|---------------------------------|----------------------------------------|-----------|
| 01/15 12:53:00 - 01/15 17:40:00 | Track ( 550.0, 111.6) @ 01/15 12:50:00 | # AR obs. |
| 01/15 18:21:00 - 01/16 03:59:54 | Track ( 590.3, 109.4) @ 01/15 18:14:00 | # AR obs. |
| 01/16 06:00:30 - 01/16 10:58:00 | Track ( 672.0, 103.9) @ 01/16 05:57:30 | # AR obs. |

|                                              |                |       |      |       |       |     |     |                      |       |            |          |         |  |
|----------------------------------------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|--|
| <b>PROG= 12      Inf.-time(s)</b>            |                |       |      |       |       |     |     |                      |       |            |          |         |  |
| <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      4-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= 77      4-time(s)      300.0sec</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        | 95.0sec |  |
| Al-poly/Open                                 | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec  |  |
| thin-Be/Open                                 | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 95.0sec |  |
| Al-poly/Open                                 | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec  |  |
| thin-Be/Open                                 | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec  |  |
| Default Filter                               | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |  |

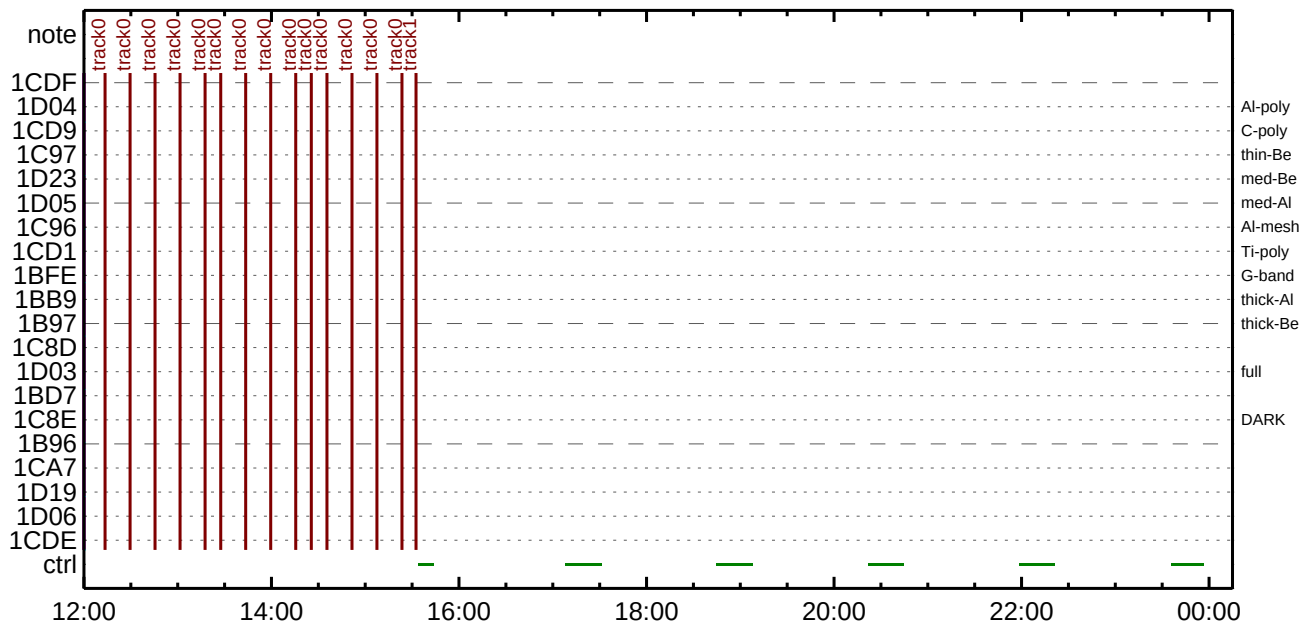
| Term                            | Pointing (x, y)                        | Comment   |
|---------------------------------|----------------------------------------|-----------|
| 01/14 10:14:40 - 01/15 12:02:56 | cannot be identified                   |           |
| 01/15 12:50:18 - 01/15 18:04:18 | Track ( 550.0, 111.6) @ 01/15 12:50:00 | # AR obs. |
| 01/15 18:18:18 - 01/16 05:47:48 | Track ( 590.3, 109.4) @ 01/15 18:14:00 | # AR obs. |
| 01/16 05:57:48 - 01/18 11:06:00 | Track ( 672.0, 103.9) @ 01/16 05:57:30 | # AR obs. |

|                |                |       |      |       |      |     |     |                    |       |                     |
|----------------|----------------|-------|------|-------|------|-----|-----|--------------------|-------|---------------------|
| AI-poly/Open   | AI-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 |

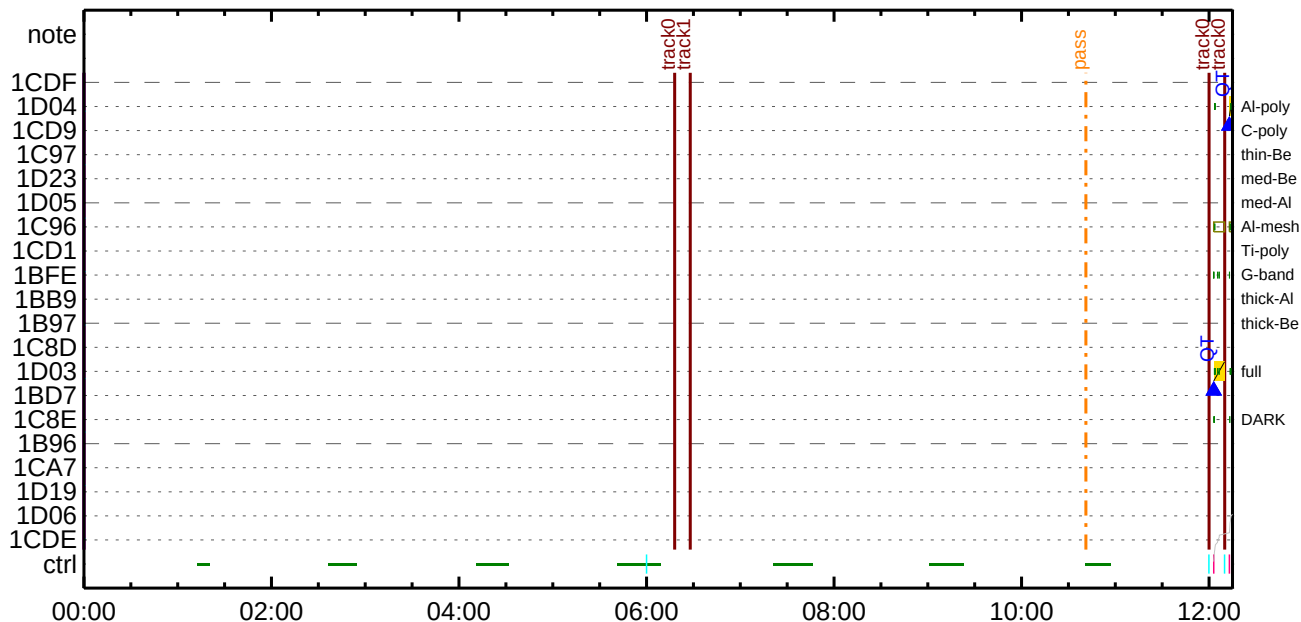
# CMDI #0336 2025/01/14



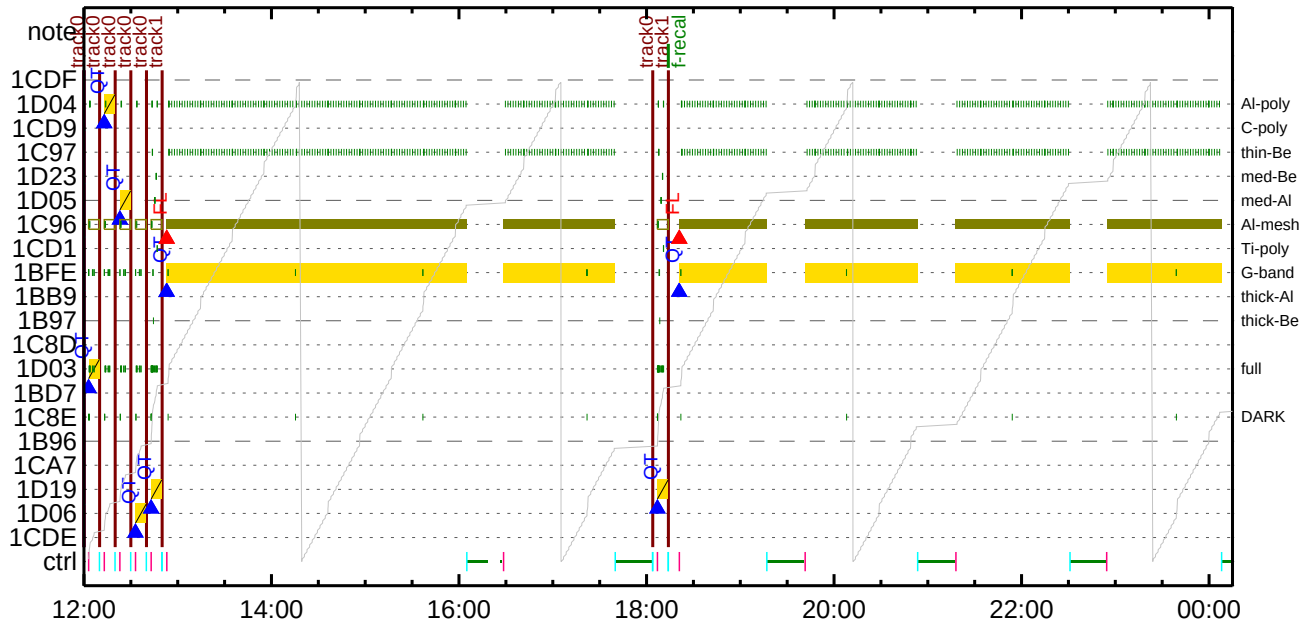
# CMDI #0336 2025/01/14



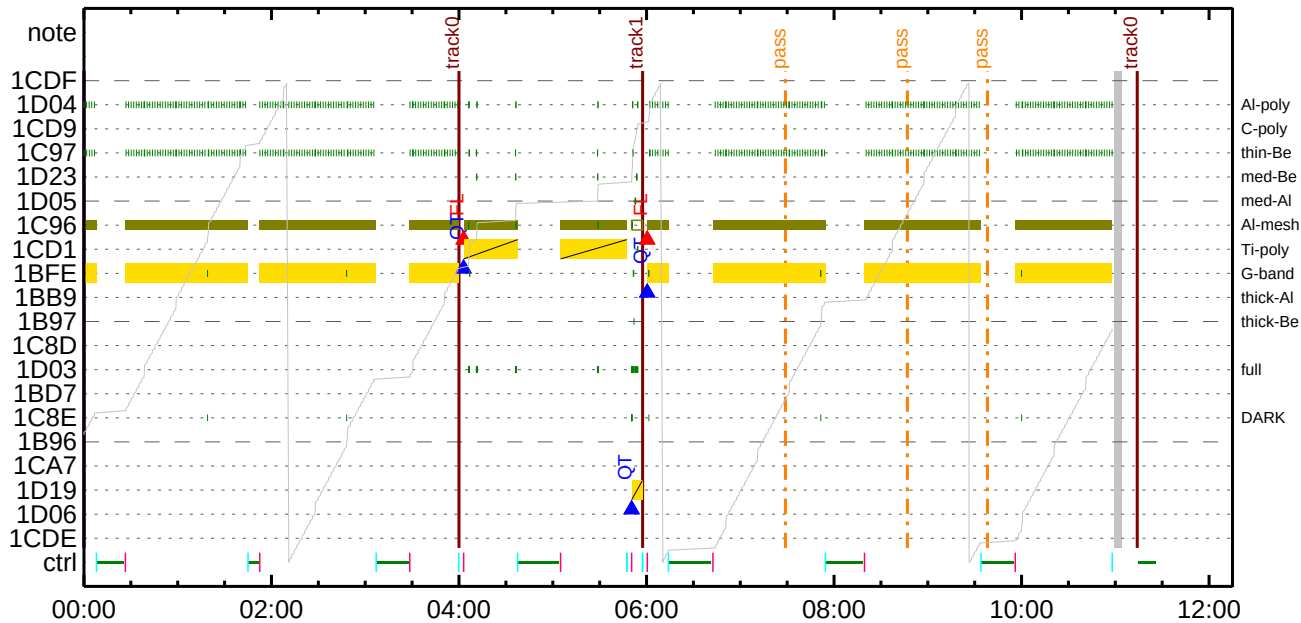
# CMDI #0336 2025/01/15



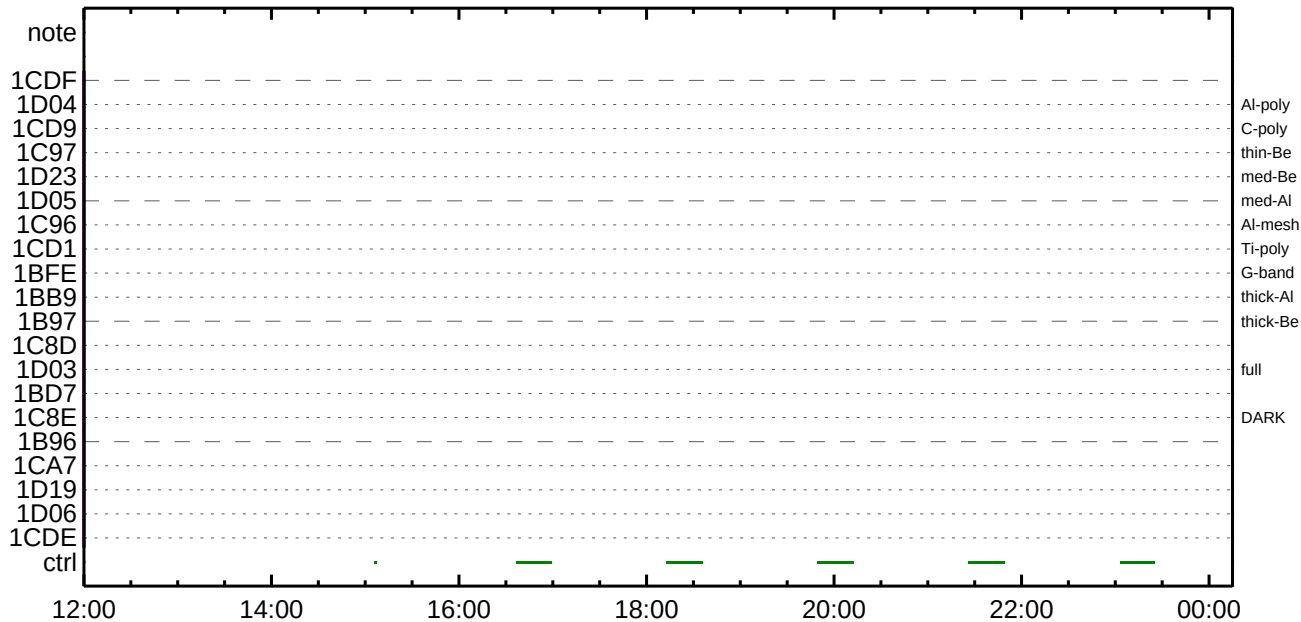
# CMDI #0336 2025/01/15



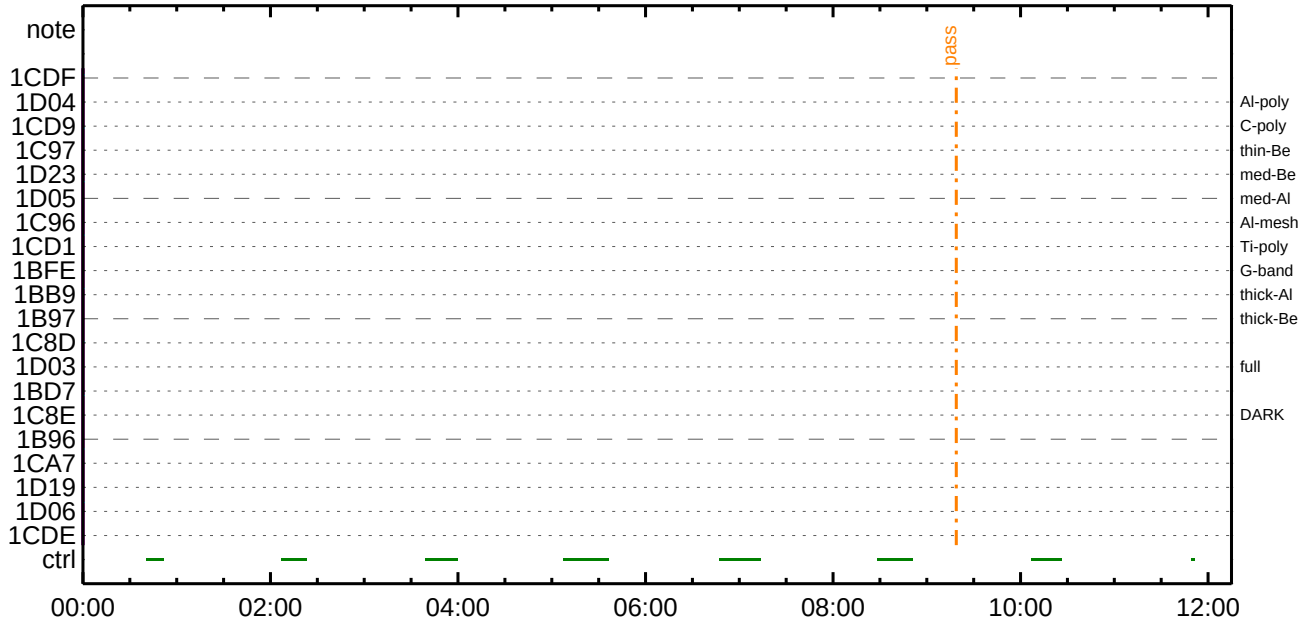
# CMDI #0336 2025/01/16



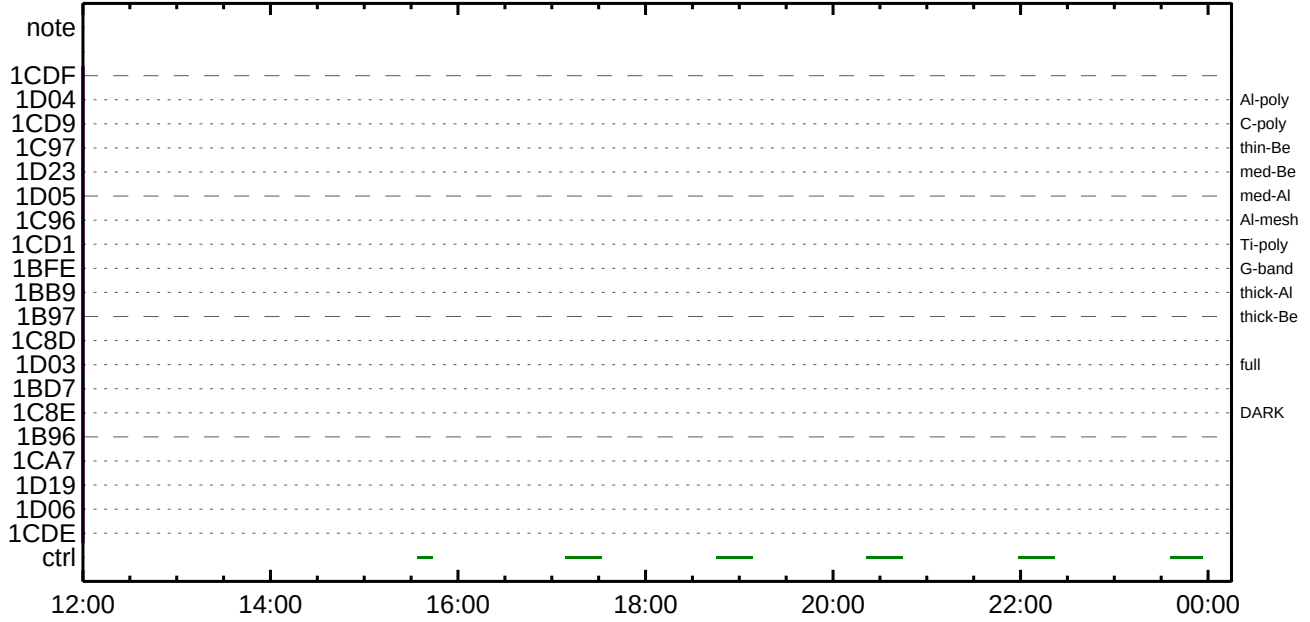
# CMDI #0336 2025/01/16



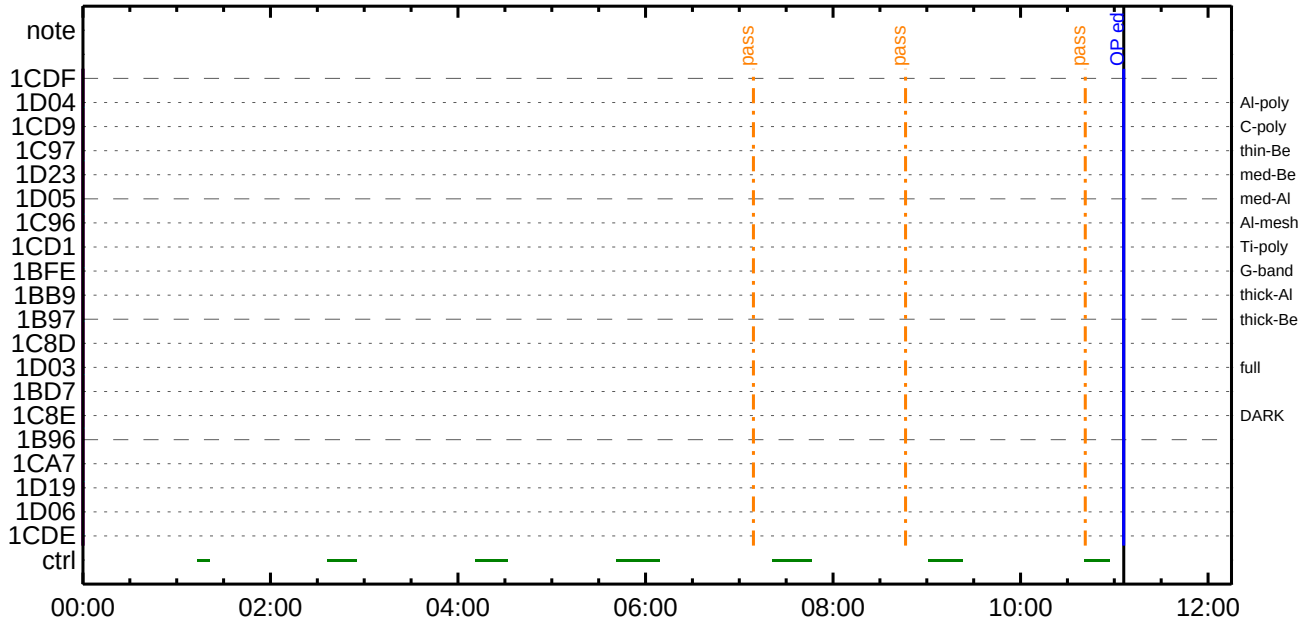
# CMDI #0336 2025/01/17

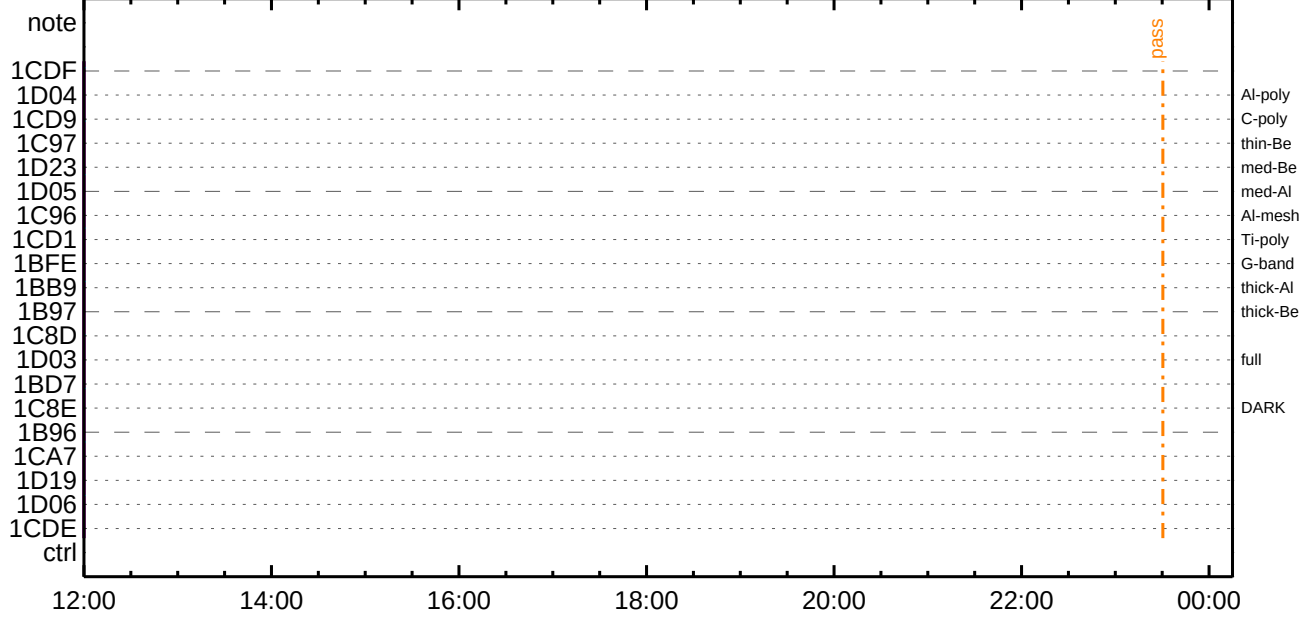


# CMDI #0336 2025/01/17



# CMDI #0336 2025/01/18







```
main-044 2025-01-14 11:41:22 194 33 SOLAR-B MAIN //
```

```
main-004 2025-01-14 11:41:22 194 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸPŸóŸÉÁ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçñÄñ•µ°E»Í×ÄÇñÍŸçŸÄŸ×Ÿí;¼ŸÉ;ËËèñµ•ííÉ;ËñÉ¼°ÇÖñ•ñç¼í¹ÇñÍ;çÄ®,ùñ¹ñèñPñÇÁ÷ç®ñ•ñËñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGŸí;¼ŸÉ;|ŸÄŸóŸ×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGŸí;¼ŸÉ;ä
0019 . S. OP op-044:OP
0020 ()
0021 . S. OG og-044:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPîî°èŸÄŸóŸ×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;$ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGñî¼Ë¹ç•ë²îOKñò³îÇ$
0062 C.
0063 C. NMOG(0x210000-0x2100FF;$ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ŸÄŸóŸ×½ªî»ñò³îÇ$
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPñî¼Ë¹ç•ë²îOKñò³îÇ$
0081 C.
0082 . C. ***** °Ë²¼ñî¼Ä´¶Ä°ñËË¬ñ°Á÷ç® (¼âµ-ŸÄŸóŸ×¼è½çñòÄÓÄæñÇ½ñ•ñè¼í¹çñÇñâ) *****
0083 C. DHUŸä;¼ŸÉ;Ë¼Ÿ½,Ÿí;¼ŸÉ;Ëñòíäñ¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE ;$ OPOG UPLOADñ¬Á÷ç®NGñî¼í¹ç;ç°Ë²¼ñîTI-CMDÁ÷ç®ñî¼Ä¹Ôñ•ñËñññ³ñÈ;£
```

|      |       |                                                               |    |           |
|------|-------|---------------------------------------------------------------|----|-----------|
| 0096 | C.    | SET EDUMP I± iYŶY¹C¹Ô±;³E;f                                   |    |           |
| 0097 | C.    |                                                               |    |           |
| 0098 | C.    | TIY³YDYOŶE±ðÄDİ; (UT)                                         |    |           |
| 0099 | +. TI | 2025-01-14 11:30:00.0                                         |    |           |
| 0100 | DC    | 01-B3 DHU_OP_STOP                                             |    |           |
| 0101 | C.    | çç [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0102 | C.    |                                                               |    |           |
| 0103 | +. TI | 2025-01-14 11:30:01.0                                         |    |           |
| 0104 | DC    | 01-B4 DHU_OP_COPY                                             |    |           |
| 0105 | C.    | çç [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0106 | C.    |                                                               |    |           |
| 0107 | +. TI | 2025-01-14 11:30:01.0                                         |    |           |
| 0108 | DC    | 01-B5 DHU_OPOG_COPY                                           |    |           |
| 0109 | C.    | çç [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0110 | C.    |                                                               |    |           |
| 0111 | +. TI | 2025-01-14 11:34:59.5                                         |    |           |
| 0112 | DC    | 01-B2 DHU_OP_START                                            |    |           |
| 0113 | C.    | çç [HK1_TI_CMD_NUM]                                           | EQ | 1COUNTUP  |
| 0114 | C.    |                                                               |    |           |
| 0115 | C.    | °Ê²¼±İÄè¼İİŶ±İŶÄŶ\$ŶÄŶ¹¹äiÜ                                   |    |           |
| 0116 | C.    | çç [HK1_TI_CMD_ENA/DIS]                                       | EQ | ENA       |
| 0117 | C.    | çç [HK1_TI_CMD_NUM]                                           | EQ | 4         |
| 0118 | C.    | çç [HK1_NEXT_EXEC_PIM]                                        | EQ | DHU       |
| 0119 | C.    | çç [HK1_NEXT_EXEC_DC]                                         | EQ | 0xB3      |
| 0120 | C.    |                                                               |    |           |
| 0121 | C.    | *****                                                         |    |           |
| 0122 | C.    | TIİİ°èŶÄŶóŶ×                                                  |    |           |
| 0123 | C.    | *****                                                         |    |           |
| 0124 | C.    |                                                               |    |           |
| 0125 | C.    | TI_TBL(0x03AB00-0x03AEFF;\$ 1024byte)                         |    |           |
| 0126 | +. DC | 01-23 DHU_DMA_DMP_PRM_SET                                     |    |           |
| 0127 | BC    | (03 ab 03 01 02)                                              |    |           |
| 0128 | C.    | çç [HK1_DMP_TOP_ADRS_1]                                       | EQ | 07        |
| 0129 | C.    | çç [HK1_DMP_TOP_ADRS_0]                                       | EQ | 2B        |
| 0130 | C.    | çç [HK1_DMP_BLOCK_NUM]                                        | EQ | 3         |
| 0131 | C.    | çç [HK1_DMP_REPEAT_NUM]                                       | EQ | 0         |
| 0132 | C.    | çç [HK1_DMA_DMP_PIM]                                          | EQ | DHU       |
| 0133 | +. DC | 01-22 DHU_MODE_CHNG                                           |    |           |
| 0134 | BC    | (07 0b f8)                                                    |    |           |
| 0135 | C.    | çç [HK1_PKT_FORM_NO]                                          | EQ | 7         |
| 0136 | C.    | çç [HK1_PKT_GEN_TIME]                                         | EQ | 0.25 s    |
| 0137 | C.    | çç [HK1_S_TLM_BIT_RATE]                                       | EQ | 32k       |
| 0138 | C.    | çç [HK1_X_TLM_BIT_RATE]                                       | EQ | 4M        |
| 0139 | C.    | çç [HK1_DMP_CHK_FLG]                                          | EQ | EXEC      |
| 0140 | C.    |                                                               |    |           |
| 0141 | C.    | ŶÄŶóŶ×½¹İ»±ð³İÇ\$                                             |    |           |
| 0142 | C.    | çç [HK1_DMP_CHK_FLG]                                          | EQ | NON       |
| 0143 | C.    |                                                               |    |           |
| 0144 | C.    | RAM ID=TI_TBL±İ¼È¹Ç•è²İOK±ð³İÇ\$                              |    |           |
| 0145 | C.    |                                                               |    |           |
| 0146 | C.    | DHUŶä;¼ŶÈ;È¼Ŷ½,Ŷİ;¼ŶÈ;È±ðİá±¹                                 |    |           |
| 0147 | +. DC | 01-22 DHU_MODE_CHNG                                           |    |           |
| 0148 | BC    | (02 0a f8)                                                    |    |           |
| 0149 | C.    | çç [HK1_PKT_FORM_NO]                                          | EQ | 2         |
| 0150 | C.    | çç [HK1_PKT_GEN_TIME]                                         | EQ | 0.5S      |
| 0151 | C.    | çç [HK1_S_TLM_BIT_RATE]                                       | EQ | 32K       |
| 0152 | C.    | çç [HK1_X_TLM_BIT_RATE]                                       | EQ | 4M        |
| 0153 | C.    |                                                               |    |           |
| 0154 | C.    | Stop EIS observation and temporarily disable EIS mode changes |    |           |
| 0155 | C.    |                                                               |    |           |
| 0156 | C.    |                                                               |    |           |
| 0157 | C.    | ***** Start EIS operation (TI set) *****                      |    |           |
| 0158 | C.    | Execute, after the success of OP upload.                      |    |           |
| 0159 | C.    | Set EIS TI-commands                                           |    |           |
| 0160 | +. TI | 2025-01-14 11:34:30.0                                         |    |           |
| 0161 | DC    | 07-FC EIS_MODE_MANU                                           |    |           |
| 0162 | BC    | (21 02)                                                       |    |           |
| 0163 | +. TI | 2025-01-14 11:34:40.0                                         |    |           |
| 0164 | DC    | 07-FC EIS_MODE_CHG_DIS                                        |    |           |
| 0165 | BC    | (22)                                                          |    |           |
| 0166 | C.    | [ ] [HK1_TI_CMD_NUM]                                          | EQ | 2 COUNTUP |
| 0167 | C.    | ***** End EIS operation (TI set) *****                        |    |           |
| 0168 | C.    |                                                               |    |           |
| 0169 | C.    |                                                               |    |           |
| 0170 | C.    |                                                               |    |           |
| 0171 | C.    | ***** XRT START *****                                         |    |           |
| 0172 | C.    | Execute, after the success of OP upload.                      |    |           |
| 0173 | +. TI | 2025-01-14 11:34:00.0                                         |    |           |
| 0174 | DC    | 07-F0 MDP_XRT_MODE_STBY                                       |    |           |
| 0175 | BC    | (c3)                                                          |    |           |
| 0176 | C.    | [ ] [HK1_TI_CMD_NUM]                                          | EQ | 1COUNTUP  |
| 0177 | C.    |                                                               |    |           |
| 0178 | C.    | ***** XRT END *****                                           |    |           |
| 0179 | C.    |                                                               |    |           |
| 0180 | C.    | ***** MDP 'üÄİ±İ»ö¼Ŷ±ÈÄD±¹±èDCBC•×²è *****                    |    |           |
| 0181 | C.    | (¼Ä°İŶÓŶÄŶÈŶDŶÈŶÄŶÇŶè±È½¼±¼Ä»Ü±¹±è)                           |    |           |
| 0182 | S.    | DC-BC dcbc-402:DCBC                                           |    |           |
| 0183 |       | (MDP_known_event)                                             |    |           |
| 0184 | C.    |                                                               |    |           |
| 0185 | C.    |                                                               |    |           |
| 0186 | C.    | ***** ŶDŶ¹•İ Daily±İŶ±È'Ø±¹±èDCBC•×²è *****                   |    |           |
| 0187 | S.    | DC-BC dcbc-153:DCBC                                           |    |           |
| 0188 |       | (SPECIAL-CMD_DAILY_OPERATIN_DCB)                              |    |           |
| 0189 | C.    |                                                               |    |           |
| 0190 | C.    |                                                               |    |           |
| 0191 | C.    | ;äLOS                                                         |    |           |



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main-045 2025-01-14 11:41:22 178 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŲÁŲ$ŲÃŲ~¼Ä»Ü;ä
0005 C.
0006 C. ŲÄŲß;¼Ų³ŲÐŲóŲÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËðçðÄâ•µ°E»Í×ÅÇñÎŲÇŲÃŲ×Ųî;¼ŲÊ;ĚÈè²µ•ìİÊ;ĚðĒ¼°ÇÔð•ñç½¹¹ Çðİ; ÇÀ®, ùñ¹ ðēððñÇÄ÷ç®ð•ñĖððð³ðĤ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XĂ÷ç®µ;ON
0016 C. *****
0017 C. °EA,. Í×ĔÝðăLOSðÞñÇñİ»þ´Öòò¹İİ , ñ•; ÇĖÔÍ×ñĖXĂÓONñİ¹ÔñĖñİñĖñðð³ðĤ;£
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çÇ [HK1_XPA_ON/OFF] EQ ON
0025 C. çÇ [HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çÇ [HK1_XMOD_ON/OFF] EQ ON
0027 C. çÇ [HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŲĐŲóŲÉŲıŲÄŲ~¾ôÄÕñ¬°ÄÄêñ•ñççé; Ç°ĕ²¼ñİ°EA., ¼ê½Çðò¼Ä¹Ôñ¹ðē;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äİ¼İ°EA,.
0033 C. *****
0034 C. ° RESTART;ĖPT1;Ěð•ñçç½¹¹ Çðİ; Ç°ĕ²¼ñİ¼Ä¹Ôñ»ñ°; ÇDCBC-150ñØçĖñà;£
0035 C.
0036 . C. ;ãPT1°EA,,³«»İ;ä
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çÇ [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô.;¼Ú)
0043 C. çÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ô.;¼Ú)
0044 C. çÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô.;¼Ú)
0045 C.
0046 . C. ;ãŲÇŲóŲĖŲĖŲĖÂÙÄØ;ĖÄ•Ä°²öĔø;Ě , äñİ°EA., °E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çÇ [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô.;¼Ú)
0050 C. çÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ô.;¼Ú)
0051 C. çÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô.;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°EA,,ñ¬¼«E°Ää»ßñ•ñçç , ä; Ç°ĕ²¼ñò¼Ä¹Ôñ¹ðē;£
0055 C. ŲÇŲóŲĖŲĖŲĖÂÙÄØñăÄ•Ä°²öĔøñ¬¼áñç½¹¹ Çðİ ´°İ»ñ¹ðēððñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äİ¼İ°EA,.
0059 C. *****
0060 C. ° RESTART;ĖPT2;Ěð•ñçç½¹¹ Çðİ; Ç°ĕ²¼ñİ¼Ä¹Ôñ»ñ°; ÇDCBC-151ñØçĖñà;£
0061 C.
0062 . C. ;ãPT2°EA,,³«»İ;ä
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çÇ [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô.;¼Ú)
0069 C. çÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ô.;¼Ú)
0070 C. çÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô.;¼Ú)
0071 C.
0072 . C. ;ãŲÇŲóŲĖŲĖŲĖÂÙÄØ;ĖÄ•Ä°²öĔø;Ě , äñİ°EA., °E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çÇ [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô.;¼Ú)
0076 C. çÇ [HK1_REP_STA/STP] EQ START (¼Ä¹Ô.;¼Ú)
0077 C. çÇ [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô.;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°EA,.Ää»ß; ÇXA÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EA,.Ää»ß;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çÇ [HK1_REP_STA/STP] EQ STOP
0087 C. çÇ [HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çÇ [HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXA÷ç®µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çÇ [HK1_XMOD_ON/OFF] EQ OFF
0095 C. çÇ [HK1 XPA ON/OFF] EO OFF
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0096 C.
0097 C.
0098 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ()
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCS DUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 C.
0129 . C. ***** AOCS Commands (Orbital Element Update) *****
0130 C. Update the orbital element
0131 +. DC 02-50 AOCU_ORB_PRPGT_START
0132 BC (16)
0133 +. DC 02-8E AOCU_ORB_UPD
0134 C.
0135 C. <A_ORB>[ORBIT] EPC = 7044756.2 +- 1.0 (s) [ ]
0136 C.
0137 C.
0138 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139 +. DC 07-FC EIS_MODE_CHG_ENA
0140 BC (20)
0141 . C. Verify EIS_MODE_CHG_FLG is ENA
0142 +. DC 07-FC EIS_MODE_MANU
0143 BC (21 02)
0144 . C. Verify EIS in MANUAL mode
0145 . C. Estimated OBSTBL upload time is 29s
0146 C. *****
0147 C. EIS START OBSTBL LOAD
0148 C. *****
0149 . S. RAM ram-820:EIS_OBSTBL
0150 ()
0151 +. DC 07-FC EIS_DUMP_OBSTBL
0152 BC (07 07 07 00 00 70 00)
0153 C.
0154 C. Execute, after the success of OBSTBL upload.
0155 C. Set EIS TI-commands
0156 +. TI 2025-01-14 11:34:50.0
0157 DC 07-FC EIS_MODE_CHG_ENA
0158 BC (20)
0159 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0160 C. *****
0161 C. EIS END OBSTBL LOAD
0162 C. *****
0163 C.
0164 . C. ***** MDP 'ûÃîî»ö¼ÝñÊÄñ¹ñëDCBC•×²è *****
0165 C. (¾å°î¥Ö¥Å¥Ê¥Ð¥Ê¥Å¥Ç¥ÊñÊ¼¼ñ¼Å»Û¹ñë)
0166 . S. DC-BC dcbc-402:DCBC
0167 (MDP_known_event)
0168 C.
0169 C.
0170 . C. ***** ¥Ð¥¹•İ Daily±¿ÍÑñÊ'Øñ¹ñëDCBC•×²è *****
0171 . S. DC-BC dcbc-153:DCBC
0172 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0173 C.
0174 C.
0175 . C. ;ãLOS¥Á¥S¥Ã¥¹¼Å»Û;ä
0176 C.
0177 . C. ***** LOS *****
0178 C.

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main-046 2025-01-14 11:41:22 106 33 SOLAR-B MAIN //
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0095      (MDP_known_event)
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0096 C.  
0097 C.  
0098 . C. \*\*\*\*\* ¥Ð¥¹•ï Daily±¿íÑ¤Ë´Ø¤¹¤ëDCBC•×²è \*\*\*\*\*  
0099 . S. DC-BC dcbc-153;DCBC  
0100 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0101 C.  
0102 C.  
0103 . C. ;ãLOS¥Á¥\$¥Ã¥¬¼Ã»Ü;ä  
0104 C.  
0105 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0106 C.





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## XRT\_OGLIST\_0336.chk

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|            |            |                                    |   |       |                |
|------------|------------|------------------------------------|---|-------|----------------|
| 2025/01/15 | 12:29:56.0 | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2025/01/15 | 12:30:00.0 | XRT_FOCUS_POSITION_446_OG [0x1be]  | 4 | 07-F8 | 22 ff aa 00    |
| 2025/01/15 | 12:32:52.0 | AOCs_ORe-point_Start_20_OG [0x0aa] | 5 | 02-76 | 00 dl 07 2e f9 |
| 2025/01/15 | 12:32:54.0 | AOCU_NM                            | 1 | 07-F0 | d5             |
| 2025/01/15 | 12:32:56.0 | XRT_ARSDIS_427_OG [0x1ab]          | 1 | 07-F0 | c9             |
| 2025/01/15 | 12:32:58.0 | MDP_XRT_ARSDIS                     | 1 | 07-F0 | d9             |
| 2025/01/15 | 12:33:00.0 | XRT_FLRCTRL_DIS_449_OG [0x1c1]     | 2 | 07-F0 | c4 02          |
| 2025/01/15 | 12:39:54.0 | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c0             |
| 2025/01/15 | 12:39:56.0 | XRT_FLD_DIS_404_OG [0x194]         | 1 | 07-F0 | c1             |
| 2025/01/15 | 12:40:00.0 | MDP_XRT_FLD_DIS                    | 4 | 07-F8 | 22 ff aa 00    |
| 2025/01/15 | 12:40:16.0 | XRT_QT_PROG_SET_422_OG [0x1a6]     | 5 | 02-76 | 00 00 00 00 00 |
| 2025/01/15 | 12:40:18.0 | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | d9             |
| 2025/01/15 | 12:40:20.0 | XRT_CTRL_AUTO_408_OG [0x198]       | 1 | 07-F0 | c9             |
| 2025/01/15 | 12:42:58.0 | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | d5             |
| 2025/01/15 | 12:43:00.0 | XRT_CTRL_MANU_402_OG [0x192]       | 2 | 07-F0 | c4 03          |
| 2025/01/15 | 12:43:00.0 | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c0             |
| 2025/01/15 | 12:49:54.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | 1 | 07-F0 | c1             |
| 2025/01/15 | 12:49:56.0 | XRT_FOCUS_POSITION                 | 1 | 07-F0 | c1             |
| 2025/01/15 | 12:49:58.0 | AOCs_ORe-point_Start_4_OG [0x09a]  | 4 | 07-F8 | 22 fe 97 00    |
| 2025/01/15 | 12:50:00.0 | AOCU_NM                            | 5 | 02-76 | 01 03 ce 01 f3 |
| 2025/01/15 | 12:50:18.0 | XRT_FLD_DIS_409_OG [0x199]         | 1 | 07-F0 | d8             |
| 2025/01/15 | 12:50:20.0 | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c8             |
| 2025/01/15 | 12:50:22.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     | 1 | 07-F0 | d0             |
| 2025/01/15 | 12:50:24.0 | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | d5             |
| 2025/01/15 | 12:50:26.0 | XRT_ARSDIS_433_OG [0x1b1]          | 1 | 07-F0 | da             |
| 2025/01/15 | 12:52:56.0 | MDP_XRT_ARSDIS                     | 2 | 07-F0 | c4 0c          |
| 2025/01/15 | 12:52:58.0 | XRT_QT_PROG_SET_436_OG [0x1b4]     | 2 | 07-F0 | c5 0e          |
| 2025/01/15 | 12:53:00.0 | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | c0             |
| 2025/01/15 | 16:05:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | 1 | 07-F0 | c1             |
| 2025/01/15 | 16:05:02.0 | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c1             |
| 2025/01/15 | 16:05:04.0 | XRT_CTRL_MANU_402_OG [0x192]       | 1 | 07-F0 | c1             |
| 2025/01/15 | 16:05:04.0 | MDP_XRT_CTRL_MANU                  | 4 | 07-F8 | 22 03 00 00 00 |
| 2025/01/15 | 16:08:14.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | 1 | 07-F0 | d8             |
| 2025/01/15 | 16:27:30.0 | XRT_FOCUS_POSITION                 | 1 | 07-F0 | c8             |
| 2025/01/15 | 16:28:30.0 | AOCs_ORe-point_Start_1_OG [0x097]  | 5 | 02-76 | 01 03 ce 01 f3 |
| 2025/01/15 | 17:40:00.0 | AOCU_NM                            | 1 | 07-F0 | d8             |
| 2025/01/15 | 17:40:02.0 | XRT_FLD_ENA_411_OG [0x19b]         | 1 | 07-F0 | c8             |
| 2025/01/15 | 17:40:04.0 | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d0             |
| 2025/01/15 | 17:43:14.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | 1 | 07-F0 | d5             |
| 2025/01/15 | 18:03:54.0 | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | da             |
| 2025/01/15 | 18:03:56.0 | XRT_AEC_RESET_448_OG [0x1c0]       | 2 | 07-F0 | c4 0c          |
| 2025/01/15 | 18:03:58.0 | MDP_XRT_AEC_RESET                  | 2 | 07-F0 | c5 0e          |
| 2025/01/15 | 18:04:00.0 | XRT_ARSDIS_423_OG [0x1a7]          | 1 | 07-F0 | c0             |
| 2025/01/15 | 18:04:18.0 | MDP_XRT_ARSDIS                     | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:04:20.0 | XRT_FLD_RESET_434_OG [0x1b2]       | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:04:22.0 | MDP_XRT_FLD_RESET                  | 4 | 07-F8 | 22 ff aa 00    |
| 2025/01/15 | 18:06:58.0 | XRT_QT_PROG_SET_447_OG [0x1bf]     | 5 | 02-76 | 00 00 00 00 00 |
| 2025/01/15 | 18:07:00.0 | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | d9             |
| 2025/01/15 | 18:13:54.0 | XRT_FL_PROG_SET_439_OG [0x1b7]     | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_FL_PROG_SET                | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_AUTO_408_OG [0x198]       | 1 | 07-F0 | c0             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_MANU_400_OG [0x190]       | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | XRT_PREFLR_STRT_425_OG [0x1a9]     | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | XRT_CUSTOM_430_OG [0x1ae]          | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | 4 | 07-F8 | 22 ff aa 00    |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_CTRL_AUTO                  | 5 | 02-76 | 00 00 00 00 00 |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_MANU_400_OG [0x190]       | 1 | 07-F0 | d9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_PREFLR_STRT_425_OG [0x1a9]     | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | 4 | 07-F8 | 22 ff aa 00    |
| 2025/01/15 | 18:13:54.0 | XRT_FOCUS_POSITION                 | 5 | 02-76 | 00 00 00 00 00 |
| 2025/01/15 | 18:13:54.0 | AOCs_ORe-point_Start_4_OG [0x09a]  | 1 | 07-F0 | d9             |
| 2025/01/15 | 18:13:54.0 | AOCU_NM                            | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_FLD_DIS_409_OG [0x199]         | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_ARSDIS_435_OG [0x1b3]          | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_ARSDIS                     | 1 | 07-F0 | c9             |
| 2025/01/15 | 18:13:54.0 | XRT_QT_PROG_SET_436_OG [0x1b4]     | 2 | 07-F0 | c4 03          |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | c0             |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_AUTO_408_OG [0x198]       | 1 | 07-F0 | c0             |
| 2025/01/15 | 18:13:54.0 | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2025/01/15 | 18:13:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | 1 | 07-F0 | c0             |

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|            |            |                                      |   |       |                |
|------------|------------|--------------------------------------|---|-------|----------------|
| 2025/01/15 | 18:13:56.0 | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
|            |            | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/01/15 | 18:13:58.0 | XRT_FOCUS_RECALIBRATE_407_OG [0x197] |   |       |                |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |
| 2025/01/15 | 18:14:00.0 | AOCs_Ore-point_Start_1_OG [0x097]    |   |       |                |
|            |            | AOCU_NM                              | 5 | 02-76 | 01 03 ce 01 f3 |
| 2025/01/15 | 18:17:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]    |   |       |                |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |
| 2025/01/15 | 18:18:18.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |                |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |
| 2025/01/15 | 18:18:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |
| 2025/01/15 | 18:18:22.0 | XRT_AEC_RESET_448_OG [0x1c0]         |   |       |                |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0             |
| 2025/01/15 | 18:18:24.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |
| 2025/01/15 | 18:18:26.0 | XRT_FLD_RESET_434_OG [0x1b2]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/01/15 | 18:20:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]       |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 0c          |
| 2025/01/15 | 18:20:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]       |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 0e          |
| 2025/01/15 | 18:21:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/01/15 | 19:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/01/15 | 19:17:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/01/15 | 19:17:04.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/01/15 | 19:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/01/15 | 19:40:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/01/15 | 19:41:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/01/15 | 20:53:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/01/15 | 20:53:32.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/01/15 | 20:53:34.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/01/15 | 20:56:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/01/15 | 21:17:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/01/15 | 21:18:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/01/15 | 22:31:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/01/15 | 22:31:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/01/15 | 22:31:04.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/01/15 | 22:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/01/15 | 22:53:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/01/15 | 22:54:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/01/16 | 00:08:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/01/16 | 00:08:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/01/16 | 00:08:04.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/01/16 | 00:11:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/01/16 | 00:25:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/01/16 | 00:26:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/01/16 | 01:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/01/16 | 01:45:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/01/16 | 01:45:04.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/01/16 | 01:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/01/16 | 01:51:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/01/16 | 01:52:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/01/16 | 03:07:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |
| 2025/01/16 | 03:07:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |
| 2025/01/16 | 03:07:04.0 | XRT_PREFLR_STRT_425_OG [0x1a9]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |
| 2025/01/16 | 03:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |
| 2025/01/16 | 03:27:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |
| 2025/01/16 | 03:28:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |
| 2025/01/16 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |

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|            |            |                                   |   |                      |  |
|------------|------------|-----------------------------------|---|----------------------|--|
| 2025/01/16 | 03:59:56.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |  |
| 2025/01/16 | 04:00:00.0 | AOCs_Ore-point_Start_4_OG [0x09a] |   |                      |  |
|            |            | AOCU_NM                           | 5 | 02-76 00 00 00 00 00 |  |
| 2025/01/16 | 04:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |  |
| 2025/01/16 | 04:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |  |
| 2025/01/16 | 04:00:20.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |  |
| 2025/01/16 | 04:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |  |
| 2025/01/16 | 04:00:24.0 | XRT_FLD_RESET_428_OG [0x1ac]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/01/16 | 04:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    |   |                      |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 0d          |  |
| 2025/01/16 | 04:02:58.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |                      |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0e          |  |
| 2025/01/16 | 04:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/01/16 | 04:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/01/16 | 04:37:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/01/16 | 04:37:34.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |  |
| 2025/01/16 | 04:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |  |
| 2025/01/16 | 05:04:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |  |
| 2025/01/16 | 05:05:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/01/16 | 05:47:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/01/16 | 05:47:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/01/16 | 05:47:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |                      |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 ff aa 00    |  |
| 2025/01/16 | 05:47:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |                      |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 d9             |  |
| 2025/01/16 | 05:47:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |                      |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 c9             |  |
| 2025/01/16 | 05:47:52.0 | XRT_ARS_DIS_435_OG [0x1b3]        |   |                      |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |  |
| 2025/01/16 | 05:50:28.0 | XRT_QT_PROG_SET_436_OG [0x1b4]    |   |                      |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 03          |  |
| 2025/01/16 | 05:50:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/01/16 | 05:57:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/01/16 | 05:57:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/01/16 | 05:57:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |                      |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 22 fe 97 00    |  |
| 2025/01/16 | 05:57:30.0 | AOCs_Ore-point_Start_1_OG [0x097] |   |                      |  |
|            |            | AOCU_NM                           | 5 | 02-76 01 03 ce 01 f3 |  |
| 2025/01/16 | 05:57:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |                      |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 d8             |  |
| 2025/01/16 | 05:57:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |                      |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 c8             |  |
| 2025/01/16 | 05:57:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |                      |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 d0             |  |
| 2025/01/16 | 05:57:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |                      |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 d5             |  |
| 2025/01/16 | 05:57:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/01/16 | 06:00:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |                      |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 c4 0c          |  |
| 2025/01/16 | 06:00:28.0 | XRT_FL_PROG_SET_439_OG [0x1b7]    |   |                      |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 c5 0e          |  |
| 2025/01/16 | 06:00:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/01/16 | 06:14:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/01/16 | 06:14:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/01/16 | 06:14:04.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |  |
| 2025/01/16 | 06:17:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |  |
| 2025/01/16 | 06:41:30.5 | XRT_Custom_430_OG [0x1ae]         |   |                      |  |
| 2025/01/16 | 06:42:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |
| 2025/01/16 | 07:54:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |  |
| 2025/01/16 | 07:54:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |  |
| 2025/01/16 | 07:54:34.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |  |
| 2025/01/16 | 07:57:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |  |
| 2025/01/16 | 08:18:30.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |  |
| 2025/01/16 | 08:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |  |

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|------------|------------|-----------------------------------|---|----------------------|
| 2025/01/16 | 09:34:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/01/16 | 09:34:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |                      |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 da             |
| 2025/01/16 | 09:34:04.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |                      |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 e8             |
| 2025/01/16 | 09:37:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |                      |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 e9             |
| 2025/01/16 | 09:55:00.0 | XRT_Custom_430_OG [0x1ae]         |   |                      |
| 2025/01/16 | 09:56:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |                      |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 c0             |
| 2025/01/16 | 10:58:00.5 | XRT_CTRL_MANU_402_OG [0x192]      |   |                      |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 c1             |
| 2025/01/16 | 11:14:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |                      |
|            |            | AOCU_NM                           | 5 | 02-76 00 00 00 00 00 |