

# XRT Timeline to be uploaded on 2021/07/15

Period: 2021/07/15 11:15:00 - 2021/07/20 11:30:00

\* \* \* \* \*

## Normal mode

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### XOB #1C92: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 600s cad (G-band/Leak first)

| Term                            | Pointing (x, y)         | Comment                              |
|---------------------------------|-------------------------|--------------------------------------|
| 07/15 12:05:30 - 07/15 12:25:54 | Fixed ( -17.0, -1011.0) | # OP start + 10 min and HOP412 01/20 |
| 07/15 12:29:00 - 07/15 12:46:54 | Fixed ( -17.0, -911.0)  | HOP412 02/20                         |
| 07/15 12:50:00 - 07/15 13:13:30 | Fixed ( -17.0, -811.0)  | HOP412 03/20                         |
| 07/15 13:46:00 - 07/15 14:03:54 | Fixed ( -17.0, -711.0)  | HOP412 04/20                         |
| 07/15 14:07:00 - 07/15 14:24:54 | Fixed ( -17.0, -611.0)  | HOP412 05/20                         |
| 07/15 14:28:00 - 07/15 14:52:00 | Fixed ( -17.0, -511.0)  | HOP412 06/20                         |
| 07/15 15:25:00 - 07/15 15:42:54 | Fixed ( -17.0, -411.0)  | HOP412 07/20                         |
| 07/15 15:46:00 - 07/15 16:03:54 | Fixed ( -17.0, -311.0)  | HOP412 08/20                         |
| 07/15 16:07:00 - 07/15 16:30:30 | Fixed ( -17.0, -211.0)  | HOP412 09/20                         |
| 07/15 17:14:00 - 07/15 17:31:54 | Fixed ( -17.0, -111.0)  | HOP412 10/20                         |
| 07/15 17:35:00 - 07/15 17:54:24 | Fixed ( -17.0, -21.0)   | HOP412 11/20                         |
| 07/15 18:51:00 - 07/15 19:08:54 | Fixed ( -17.0, 79.0)    | HOP412 12/20                         |
| 07/15 19:12:00 - 07/15 19:47:00 | Fixed ( -17.0, 179.0)   | HOP412 13/20                         |
| 07/15 20:28:00 - 07/15 20:45:54 | Fixed ( -17.0, 279.0)   | HOP412 14/20                         |
| 07/15 20:49:00 - 07/15 21:25:30 | Fixed ( -17.0, 379.0)   | HOP412 15/20                         |
| 07/15 22:05:00 - 07/15 22:22:54 | Fixed ( -17.0, 479.0)   | HOP412 16/20                         |
| 07/15 22:26:00 - 07/15 23:04:00 | Fixed ( -17.0, 579.0)   | HOP412 17/20                         |
| 07/15 23:40:00 - 07/15 23:57:54 | Fixed ( -17.0, 679.0)   | HOP412 18/20                         |
| 07/16 00:01:00 - 07/16 00:18:54 | Fixed ( -17.0, 779.0)   | HOP412 19/20                         |
| 07/16 00:22:00 - 07/16 00:39:54 | Fixed ( -17.0, 879.0)   | HOP412 20/20                         |

**PROG= 17 Inf.-time(s)**

| Subr=          | 1-time(s)        | 2.0sec   |      |       |       |     |     |                        |       |            |          |        |
|----------------|------------------|----------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Subr= 1        | 1-time(s)        | 2.0sec   |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 30       | 1-time(s)        | 2.0sec   |      |       |       |     |     |                        |       |            |          |        |
| Open/G-band    | Open/G-band      | open     | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band    | Open/G-band      | close    | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2        | 5-time(s)        | 720.0sec |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 8        | 1-time(s)        | 2.0sec   |      |       |       |     |     |                        |       |            |          |        |
| thin-Be/Open   | med-Be/Open      | close    | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| thin-Be/Open   | med-Be/Open      | close    | Safe | Norm  | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| Seqn= 6        | 1-time(s)        | 2.0sec   |      |       |       |     |     |                        |       |            |          |        |
| Al-poly/Open   | Al-poly/Open     | close    | Safe | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| Al-poly/Open   | Al-poly/Open     | close    | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| Al-poly/Open   | Al-poly/thick-Al | close    | Safe | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Default Filter | Thicker Filter   | VLS      | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

### XOB #1C8F: Synoptic Q95 2x2 - Al/mesh(64/512/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(128/1024/4096) +

| Term                            | Pointing (x, y)   | Comment  |
|---------------------------------|-------------------|--|
| 07/15 17:57:30 - 07/15 18:09:00 | Fixed ( 0.0, 0.0) | synoptic, shifted -5.5 min                                   |
| 07/16 06:14:30 - 07/16 06:21:24 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted 11.5 min                         |
| 07/16 18:03:30 - 07/16 18:10:24 | Fixed ( 0.0, 0.0) | synoptic, shifted 0.5 min                                    |
| 07/17 05:50:00 - 07/17 05:56:54 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted + SOT dark/flats at disk center. |

**PROG= 16 1-time(s)**

| Subr=          | 1-time(s)        | 2.0sec |      |       |       |     |     |                        |       |            |          |        |
|----------------|------------------|--------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Subr= 1        | 1-time(s)        | 2.0sec |      |       |       |     |     |                        |       |            |          |        |
| Seqn= 5        | 1-time(s)        | 2.0sec |      |       |       |     |     |                        |       |            |          |        |
| Open/Ti-poly   | Open/thick-Al    | close  | Safe | Dark  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/Ti-poly   | Open/thick-Al    | close  | Safe | Dark  | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/Ti-poly   | Open/thick-Al    | close  | Safe | Dark  | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/Ti-poly   | Open/thick-Al    | close  | Safe | Dark  | 500ms | Obs | 1x1 | 2048x512 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
| Open/Ti-poly   | Open/thick-Al    | close  | Safe | Dark  | 500ms | Obs | 1x1 | 512x2048 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
| Seqn= 36       | 1-time(s)        | 2.0sec |      |       |       |     |     |                        |       |            |          |        |
| Open/Al-mesh   | Open/Al-mesh     | close  | Safe | Norm  | 63ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh   | Open/Al-mesh     | close  | Safe | Norm  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh   | Open/Al-mesh     | close  | Safe | Norm  | 2.83s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 85       | 1-time(s)        | 2.0sec |      |       |       |     |     |                        |       |            |          |        |
| Al-poly/Open   | Al-poly/Open     | close  | Safe | Norm  | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open   | Al-poly/Open     | close  | Safe | Norm  | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open   | Al-poly/thick-Al | close  | Safe | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 54       | 1-time(s)        | 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  | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open   | thin-Be/Open     | close  | Safe | Norm  | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 23       | 1-time(s)        | 2.0sec |      |       |       |     |     |                        |       |            |          |        |
| Open/G-band    | Open/G-band      | open   | Safe | Norm  | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band    | Open/G-band      | close  | Safe | Norm  | 1ms   | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Default Filter | Thicker Filter   | VLS    | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

### XOB #1B89: 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                  |
|---------------------------------|---|--------------------------|
| 07/16 01:12:30 - 07/16 01:59:54 | Track ( -136.6, 284.4) @ 07/16 00:40:00 | End of HOP412. AR 12842. |
| 07/16 06:24:30 - 07/16 18:00:24 | Track ( -89.6, 283.6) @ 07/16 06:21:30  | # AR cont.               |
| 07/16 18:13:30 - 07/16 23:39:30 | Track ( 8.6, 282.6) @ 07/16 18:10:30    | # AR cont.               |

| PROG= 11 Inf.-time(s) |                |                |       |         |       |       |     |     |                      |       |            |          |        |
|-----------------------|----------------|----------------|-------|---------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1               |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
| Seqn= 92              |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
|                       | Open/G-band    | Open/G-band    | open  | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                       | Open/G-band    | Open/G-band    | close | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                       | Open/Ti-poly   | Open/thick-Al  | close | Safe    | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| Subr= 2               |                | 5-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
| Seqn= 47              |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe    | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                       | Al-poly/Open   | thin-Be/Open   | close | Safe    | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe    | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open    | close | Safe    | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| Seqn= 96              |                | 4-time(s)      |       | 60.0sec |       |       |     |     |                      |       |            |          |        |
|                       | 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 #1CB6: HOP349 - 3-filter Synoptics (Al-mesh[24/256/2897], Al-poly[45/512/4096], thin-Be[512/8192/23142] with 512x512 G-band+Leak - 45min cad) + C**

| Term                            | Pointing (x, y)   | Comment  |
|---------------------------------|-------------------|--|
| 07/16 02:03:00 - 07/16 06:11:24 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted 11.5 min                         |
| 07/17 03:26:30 - 07/17 05:46:54 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted + SOT dark/flats at disk center. |

| PROG= 19 Inf.-time(s) |                |                  |       |          |       |       |     |     |                        |       |            |          |        |
|-----------------------|----------------|------------------|-------|----------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Subr= 1               |                | 1-time(s)        |       | 300.0sec |       |       |     |     |                        |       |            |          |        |
| Seqn= 1               |                | 1-time(s)        |       | 2.0sec   |       |       |     |     |                        |       |            |          |        |
|                       | Open/Al-mesh   | Open/Al-mesh     | close | Safe     | Norm  | 24ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                       | Open/Al-mesh   | Open/Al-mesh     | close | Safe     | Norm  | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                       | Open/Al-mesh   | Open/Al-mesh     | close | Safe     | Norm  | 2.83s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 99              |                | 1-time(s)        |       | 2.0sec   |       |       |     |     |                        |       |            |          |        |
|                       | Al-poly/Open   | Al-poly/Open     | close | Safe     | Norm  | 44ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                       | Al-poly/Open   | Al-poly/Open     | close | Safe     | Norm  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                       | Al-poly/Open   | Al-poly/thick-Al | close | Safe     | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 54              |                | 1-time(s)        |       | 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  | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|                       | thin-Be/Open   | thin-Be/Open     | close | Safe     | Norm  | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Seqn= 30              |                | 1-time(s)        |       | 2.0sec   |       |       |     |     |                        |       |            |          |        |
|                       | Open/G-band    | Open/G-band      | open  | Safe     | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=90  | 0          | 0        | 2.0sec |
|                       | Open/G-band    | Open/G-band      | close | Safe     | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=95  | 0          | 0        | 2.0sec |
| Subr= 2               |                | 8-time(s)        |       | 300.0sec |       |       |     |     |                        |       |            |          |        |
| Seqn= 8               |                | 1-time(s)        |       | 2.0sec   |       |       |     |     |                        |       |            |          |        |
|                       | thin-Be/Open   | med-Be/Open      | close | Safe     | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
|                       | thin-Be/Open   | med-Be/Open      | close | Safe     | Norm  | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| Seqn= 6               |                | 1-time(s)        |       | 2.0sec   |       |       |     |     |                        |       |            |          |        |
|                       | Al-poly/Open   | Al-poly/Open     | close | Safe     | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
|                       | Al-poly/Open   | Al-poly/Open     | close | Safe     | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| Seqn= 29              |                | 1-time(s)        |       | 2.0sec   |       |       |     |     |                        |       |            |          |        |
|                       | Open/Al-mesh   | Open/Al-mesh     | close | Safe     | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
|                       | Open/Al-mesh   | Open/Al-mesh     | close | Safe     | Norm  | 250ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 2          | 0        | 2.0sec |
|                       | Default Filter | Thicker Filter   | VLS   | mode     | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

**XOB #1C3D: HOP336 1-filter - Al/poly -384x384, 256ms and 4s, 60s-cadence, G-band - 384x384 1ms**

| Term                            | Pointing (x, y)                                  | Comment                       |
|---------------------------------|--|-------------------------------|
| 07/17 00:11:30 - 07/17 02:50:30 | Track ( -30.7, -140.8) <sup>07/17 00:00:00</sup> | # HOP 393 (cycle transition). |

| PROG= 14 Inf.-time(s) |                |                |       |         |       |       |     |     |                      |       |            |          |        |
|-----------------------|----------------|----------------|-------|---------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1               |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
| Seqn= 16              |                | 2-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
|                       | Open/G-band    | Open/G-band    | close | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| Subr= 2               |                | 1-time(s)      |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
| Seqn= 90              |                | 1-time(s)      |       | 30.0sec |       |       |     |     |                      |       |            |          |        |
|                       | Open/G-band    | Open/G-band    | open  | Safe    | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
| Subr= 3               |                | 15-time(s)     |       | 2.0sec  |       |       |     |     |                      |       |            |          |        |
| Seqn= 64              |                | 1-time(s)      |       | 60.0sec |       |       |     |     |                      |       |            |          |        |
|                       | Al-poly/Open   | Al-poly/Open   | close | Safe    | Norm  | 4.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
|                       | Al-poly/Open   | Al-poly/Open   | close | Safe    | Norm  | 250ms | 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 #1B96: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 360s cad (G-band/Leak first)**

| Term                            | Pointing (x, y)   | Comment  |
|---------------------------------|-------------------|--|
| 07/17 06:43:00 - 07/17 10:07:00 | Fixed ( 0.0, 0.0) | HOP 349 + synoptic, shifted + SOT dark/flats at disk center. |

| PROG= 09 Inf.-time(s) |             |             |      |        |      |     |     |     |                      |      |   |   |        |
|-----------------------|-------------|-------------|------|--------|------|-----|-----|-----|----------------------|------|---|---|--------|
| Subr= 1               |             | 1-time(s)   |      | 2.0sec |      |     |     |     |                      |      |   |   |        |
| Seqn= 30              |             | 1-time(s)   |      | 2.0sec |      |     |     |     |                      |      |   |   |        |
|                       | Open/G-band | Open/G-band | open | Safe   | Norm | 1ms | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 2.0sec |

|                                    |                |       |      |       |       |     |     |                        |       |            |          |        |
|------------------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Open/G-band                        | Open/G-band    | close | Safe | Norm  | 1ms   | Obs | 1x1 | 512x512 (1024, 1024)   | Q=95  | 0          | 0        | 2.0sec |
| <b>Subr= 2 10-time(s) 360.0sec</b> |                |       |      |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 8 1-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                        |       |            |          |        |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| thin-Be/Open                       | med-Be/Open    | close | Safe | Norm  | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| <b>Seqn= 6 1-time(s) 2.0sec</b>    |                |       |      |       |       |     |     |                        |       |            |          |        |
| Al-poly/Open                       | Al-poly/Open   | close | Safe | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| Al-poly/Open                       | Al-poly/Open   | close | Safe | Norm  | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| Default Filter                     | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

\* \* \* \* \*

### Flare mode

\* \* \* \* \*

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

| Term                            | Pointing (x, y)                         | Comment  |
|---------------------------------|---|--|
| 07/15 12:05:30 - 07/15 12:25:54 | Fixed ( -17.0, -1011.0)                 | # OP start + 10 min and HOP412 01/20                         |
| 07/15 12:29:00 - 07/15 12:46:54 | Fixed ( -17.0, -911.0)                  | HOP412 02/20   |
| 07/15 12:50:00 - 07/15 13:13:30 | Fixed ( -17.0, -811.0)                  | HOP412 03/20   |
| 07/15 13:46:00 - 07/15 14:03:54 | Fixed ( -17.0, -711.0)                  | HOP412 04/20   |
| 07/15 14:07:00 - 07/15 14:24:54 | Fixed ( -17.0, -611.0)                  | HOP412 05/20   |
| 07/15 14:28:00 - 07/15 14:52:00 | Fixed ( -17.0, -511.0)                  | HOP412 06/20   |
| 07/15 15:25:00 - 07/15 15:42:54 | Fixed ( -17.0, -411.0)                  | HOP412 07/20   |
| 07/15 15:46:00 - 07/15 16:03:54 | Fixed ( -17.0, -311.0)                  | HOP412 08/20   |
| 07/15 16:07:00 - 07/15 16:30:30 | Fixed ( -17.0, -211.0)                  | HOP412 09/20   |
| 07/15 17:14:00 - 07/15 17:31:54 | Fixed ( -17.0, -111.0)                  | HOP412 10/20   |
| 07/15 17:35:00 - 07/15 17:54:24 | Fixed ( -17.0, -21.0)                   | HOP412 11/20   |
| 07/15 18:51:00 - 07/15 19:08:54 | Fixed ( -17.0, 79.0)                    | HOP412 12/20   |
| 07/15 19:12:00 - 07/15 19:47:00 | Fixed ( -17.0, 179.0)                   | HOP412 13/20   |
| 07/15 20:28:00 - 07/15 20:45:54 | Fixed ( -17.0, 279.0)                   | HOP412 14/20   |
| 07/15 20:49:00 - 07/15 21:25:30 | Fixed ( -17.0, 379.0)                   | HOP412 15/20   |
| 07/15 22:05:00 - 07/15 22:22:54 | Fixed ( -17.0, 479.0)                   | HOP412 16/20   |
| 07/15 22:26:00 - 07/15 23:04:00 | Fixed ( -17.0, 579.0)                   | HOP412 17/20   |
| 07/15 23:40:00 - 07/15 23:57:54 | Fixed ( -17.0, 679.0)                   | HOP412 18/20   |
| 07/16 00:01:00 - 07/16 00:18:54 | Fixed ( -17.0, 779.0)                   | HOP412 19/20   |
| 07/16 00:22:00 - 07/16 00:39:54 | Fixed ( -17.0, 879.0)                   | HOP412 20/20   |
| 07/16 01:12:30 - 07/16 01:59:54 | Track ( -136.6, 284.4) @ 07/16 00:40:00 | End of HOP412. AR 12842.                                     |
| 07/16 02:03:00 - 07/16 06:11:24 | Fixed ( 0.0, 0.0)                       | HOP 349 + synoptic, shifted 11.5 min                         |
| 07/16 06:24:30 - 07/16 18:00:24 | Track ( -89.6, 283.6) @ 07/16 06:21:30  | # AR cont.   |
| 07/16 18:13:30 - 07/16 23:39:30 | Track ( 8.6, 282.6) @ 07/16 18:10:30    | # AR cont.   |
| 07/17 00:11:30 - 07/17 02:50:30 | Track ( -30.7, -140.8) @ 07/17 00:00:00 | # HOP 393 (cycle transition).                                |
| 07/17 03:26:30 - 07/17 05:46:54 | Fixed ( 0.0, 0.0)                       | HOP 349 + synoptic, shifted + SOT dark/flats at disk center. |
| 07/17 06:43:00 - 07/17 10:07:00 | Fixed ( 0.0, 0.0)                       | HOP 349 + synoptic, shifted + SOT dark/flats at disk center. |

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

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

\* \* \* \* \*

### Active Region Search

\* \* \* \* \*

NOT USED

\* \* \* \* \*

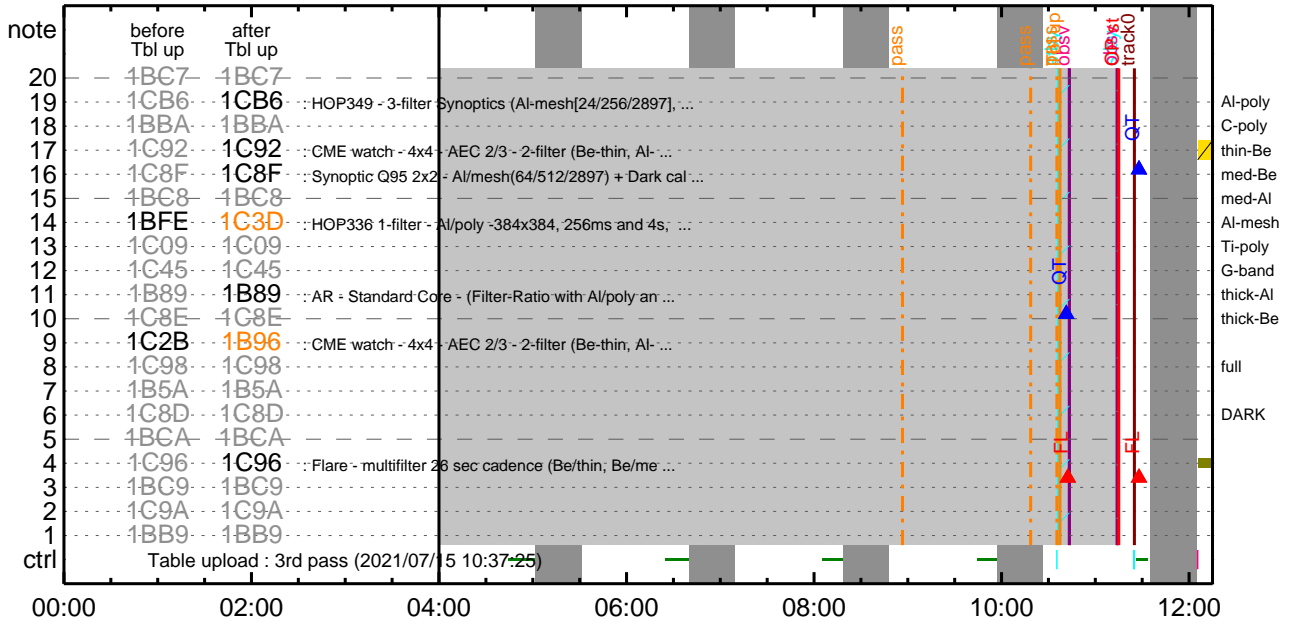
### Flare Detection

\* \* \* \* \*

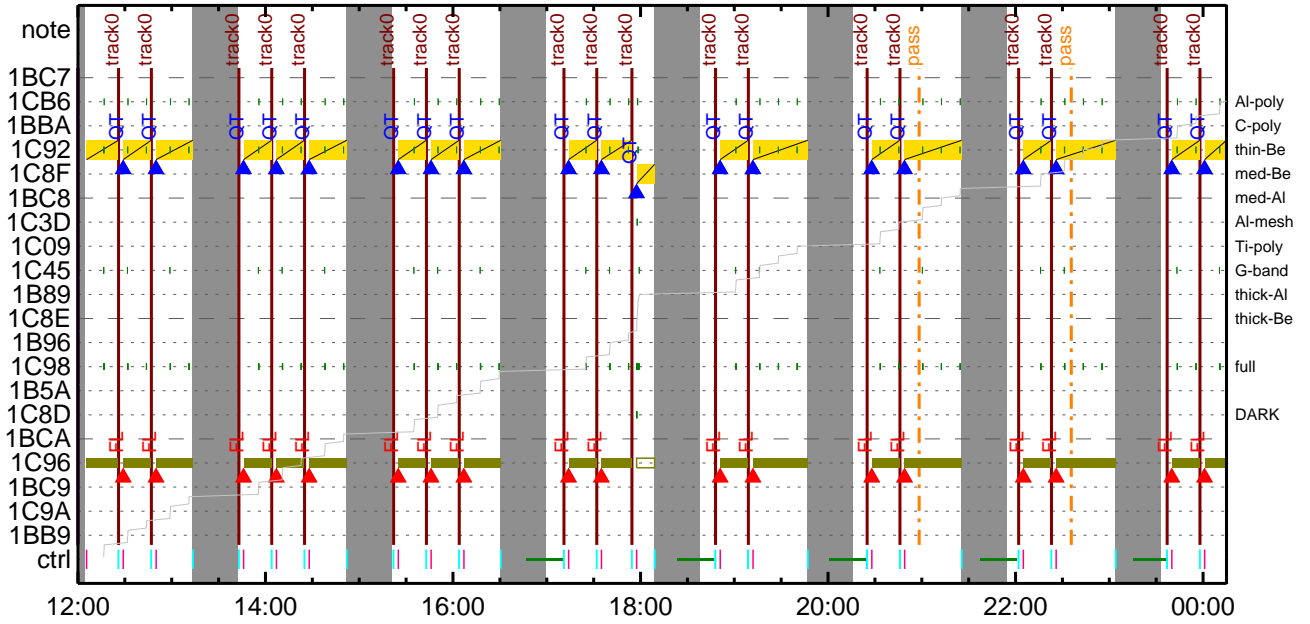
### FLD Patrol

| Term                            | Pointing (x, y)                        | Comment  |
|---------------------------------|--|--|
| 07/15 18:48:18 - 07/16 06:11:48 | Fixed ( -17.0, 79.0)                   | HOP412 12/20   |
| 07/16 06:21:48 - 07/16 18:00:48 | Track ( -89.6, 283.6) @ 07/16 06:21:30 | # AR cont.   |
| 07/16 18:10:48 - 07/17 05:47:18 | Track ( 8.6, 282.6) @ 07/16 18:10:30   | # AR cont.   |
| 07/17 05:57:18 - 07/20 11:30:00 | Fixed ( 0.0, 0.0)                      | HOP 349 + synoptic, shifted + SOT dark/flats at disk center.             |
| Al-poly/Open                    | Al-poly/Open                           | close Safe Norm 8ms Obs 8x8 Q=50 30sec                                   |
| Default Filter                  | Thicker Filter                         | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

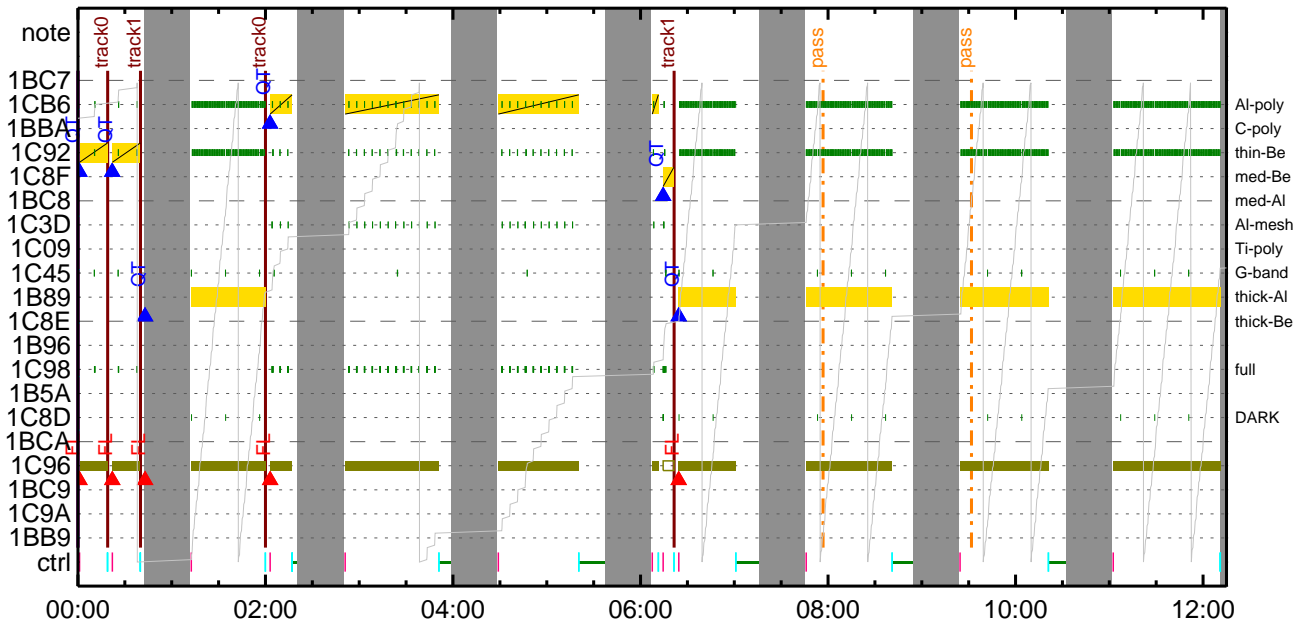
### CMDI #0754 2021/07/15



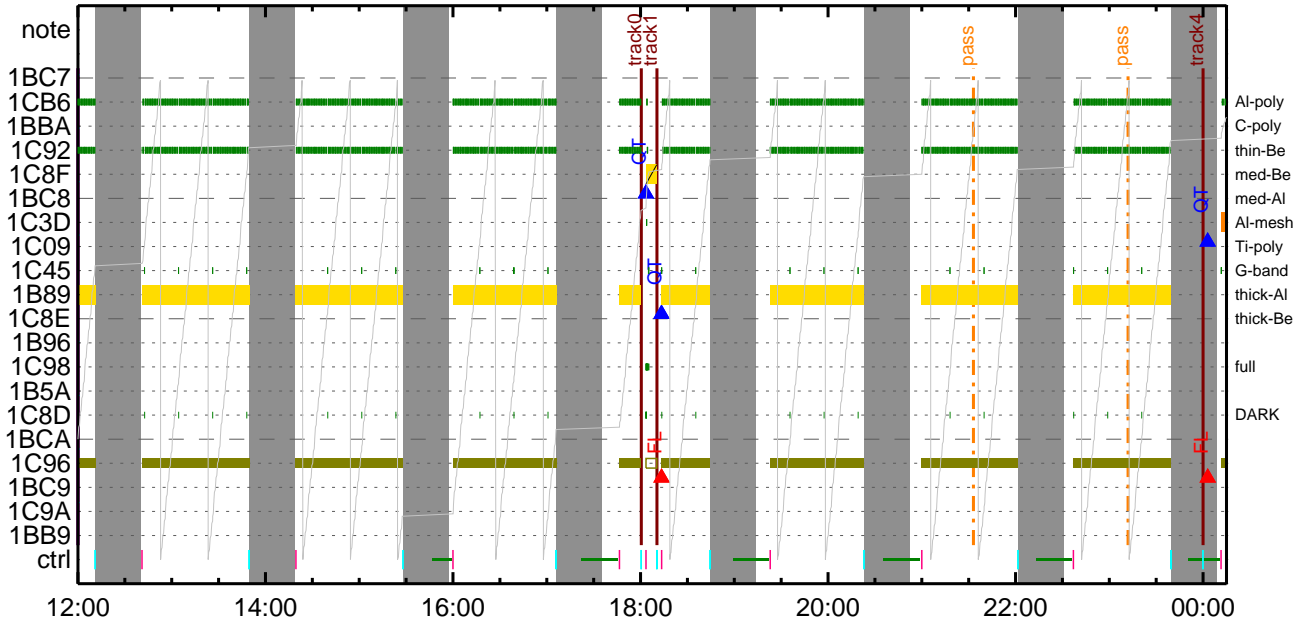
### CMDI #0754 2021/07/15



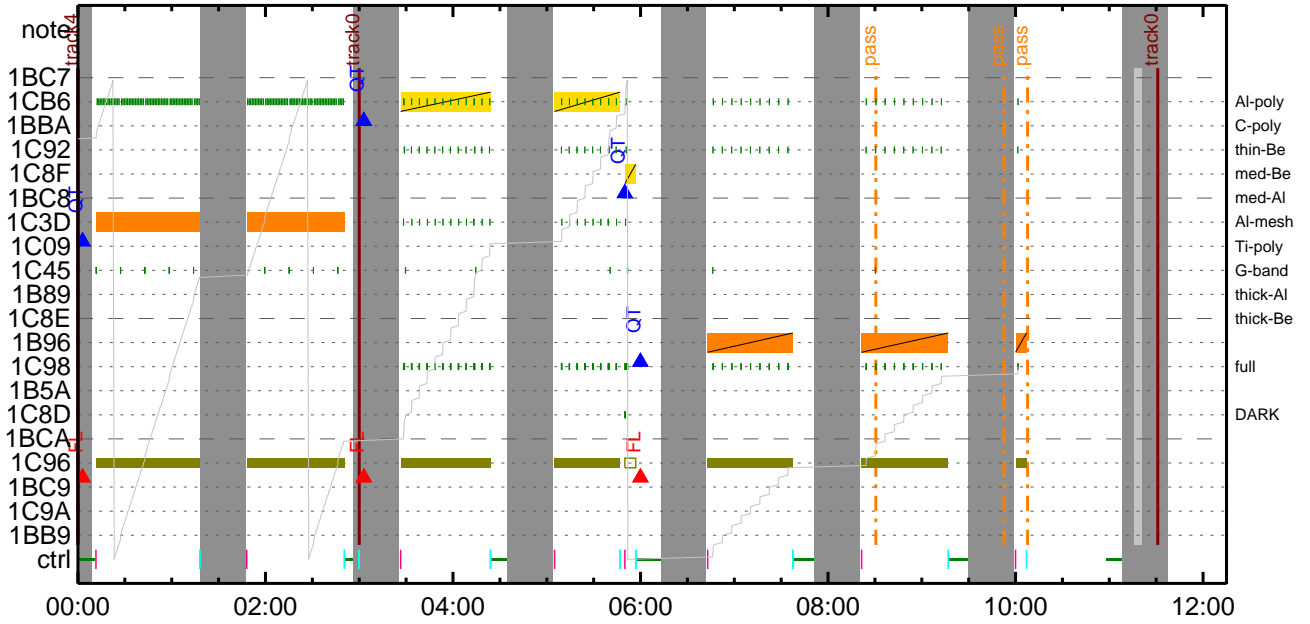
### CMDI #0754 2021/07/16



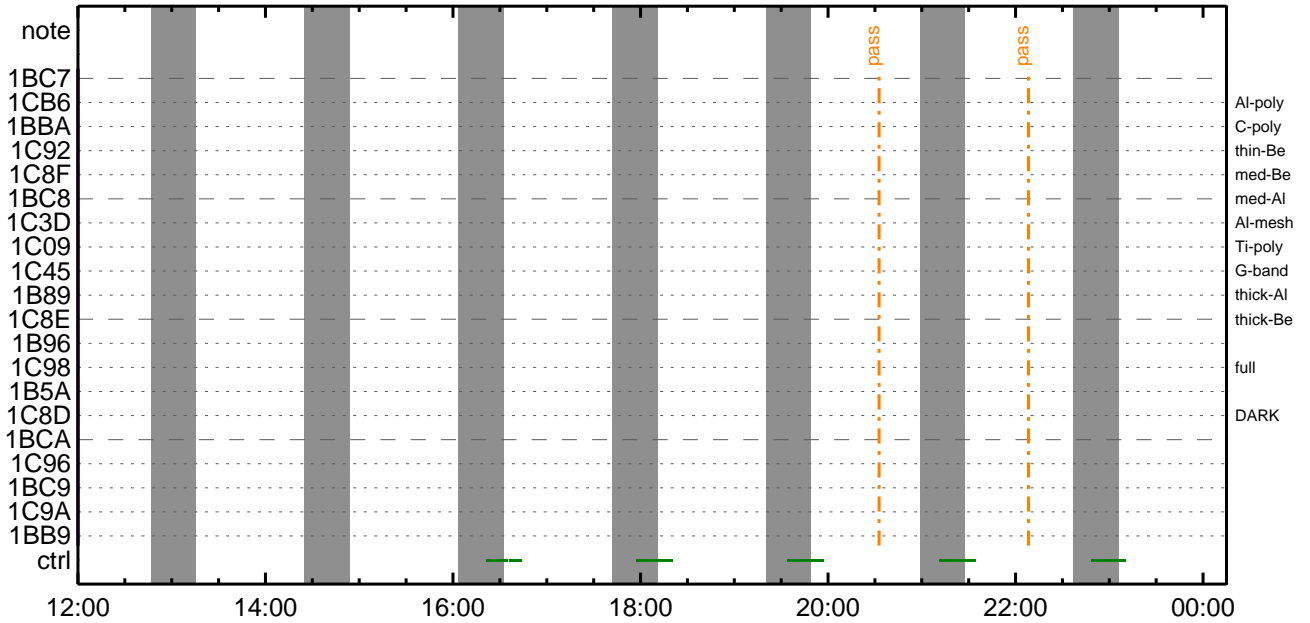
CMDI #0754 2021/07/16



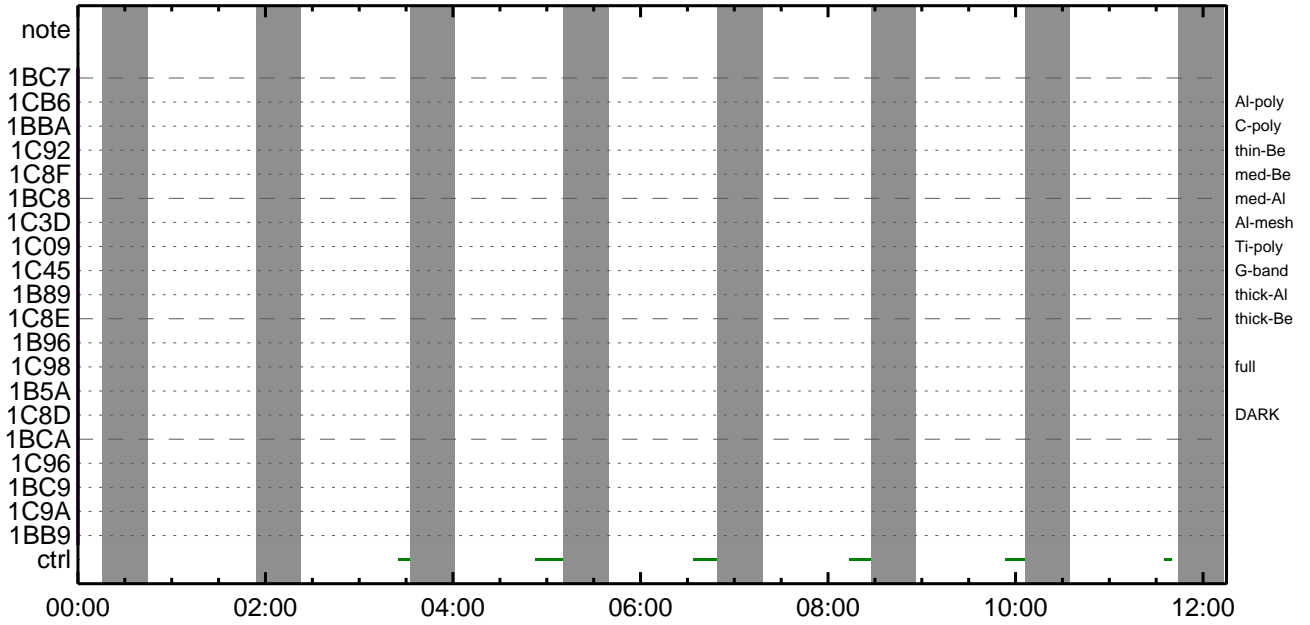
CMDI #0754 2021/07/17



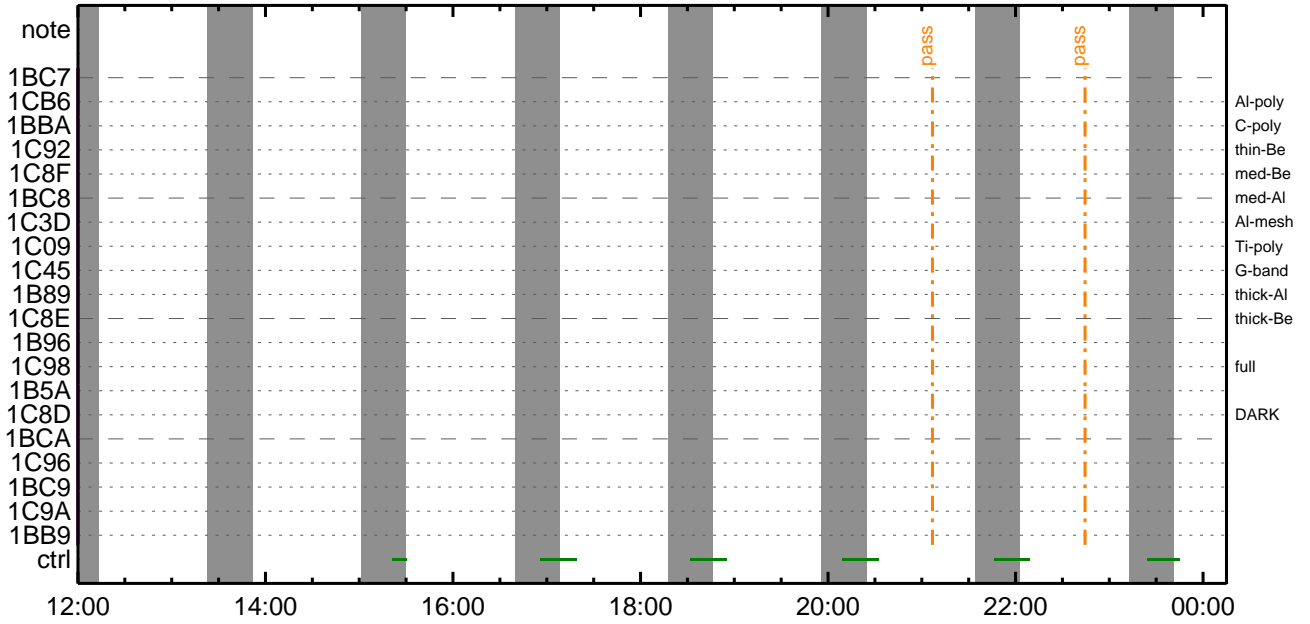
CMDI #0754 2021/07/17



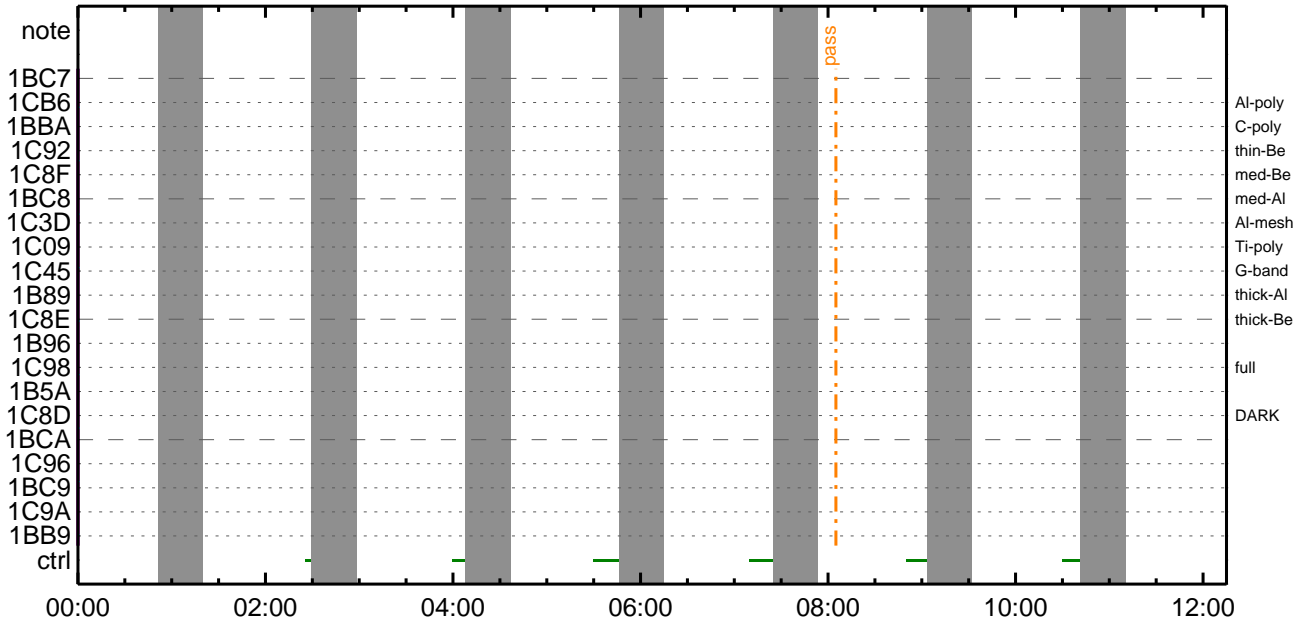
CMDI #0754 2021/07/18



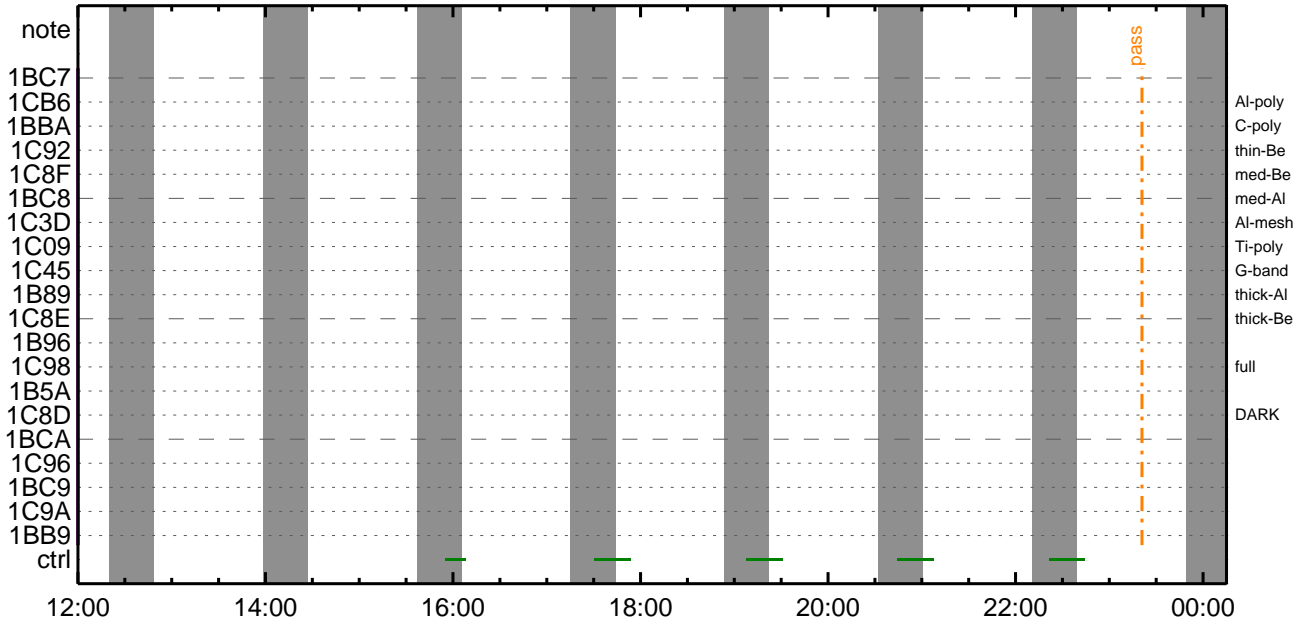
CMDI #0754 2021/07/18



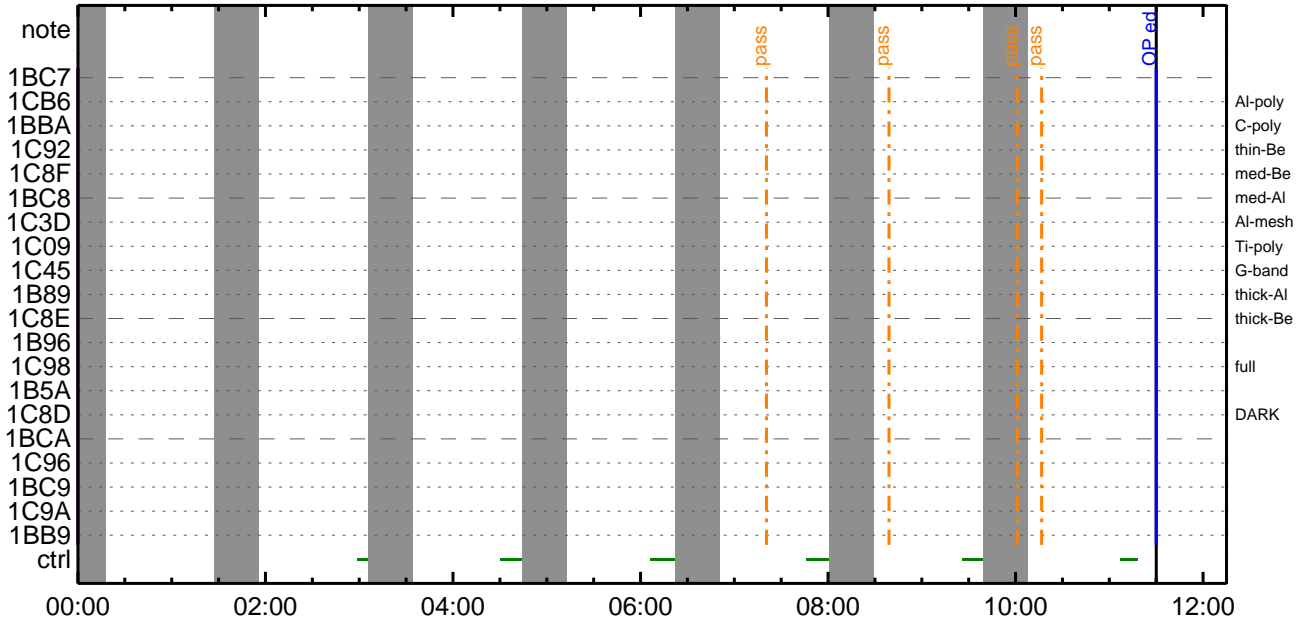
CMDI #0754 2021/07/19



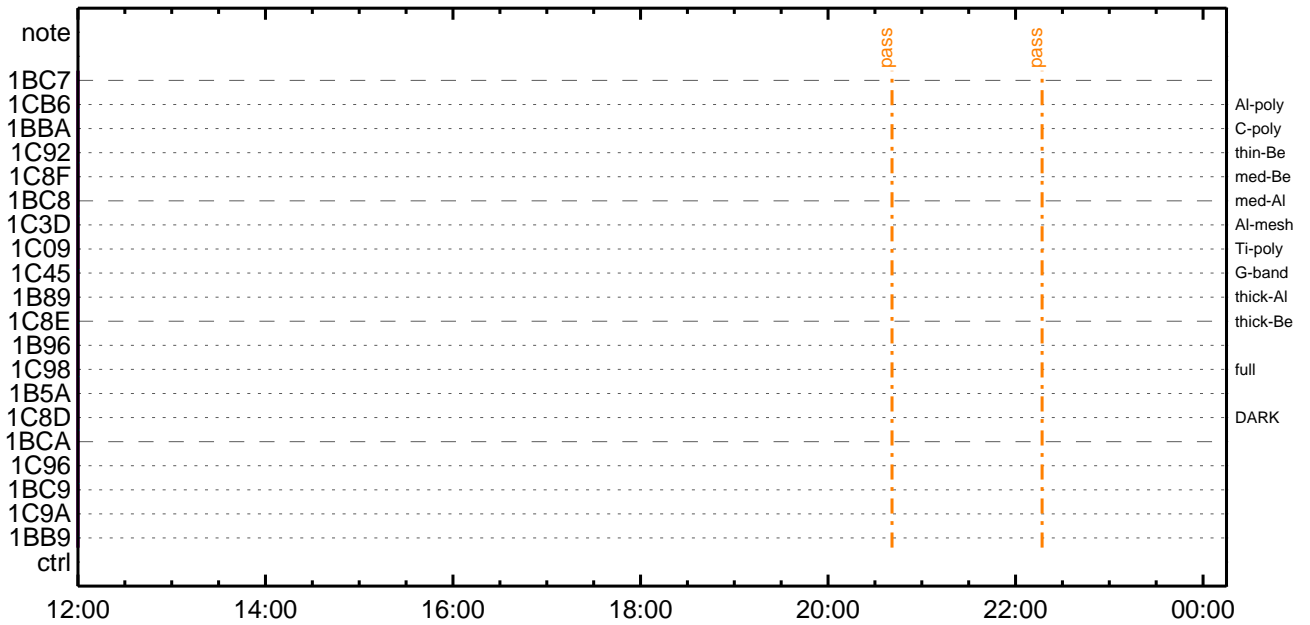
CMDI #0754 2021/07/19



CMDI #0754 2021/07/20



CMDI #0754 2021/07/20







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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;Y4E;YAY6Yx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;Y4E;ã
0103 S. OP op-590:OP
0104 ( )
0105 S. OG og-590:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPîî°èYAY6Yx;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAY6Yx½ªî»ð³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î¼E¹ç•è²îOK²³îÇ§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAY6Yx½ªî»ð³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î¼E¹ç•è²îOK²³îÇ§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAY6Yx½ªî»ð³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î¼E¹ç•è²îOK²³îÇ§
0165 C.
0166 C. ***** °E²¼²î¼E¹ç•è²îOK²³îÇ§ *****
0167 C. DHUYâ;Y4E;E½Y½;Y1;Y4E;E²ðîã¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOAD²-Á÷çîNG²î¼E¹ç•è²¼²îTI-CMDÁ÷çî¼î¼¹Ô²•²E²³²E;ç
0180 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0181 C.
0182 C. TIY³Y³Y³E²ðîã¹ç(UT)
0183 +. TI 2021-07-15 11:10:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2021-07-15 11:10:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2021-07-15 11:10:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

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0096 C.
0097 C.
0098 C.
0099 C. ***** XRT START *****
0100 C.
0101 +. DC 07-F0 MDP_XRT_CTRL_MANU
0102 BC (c1)
0103 + DC 07-F0 MDP_XRT_MODE_STBY
0104 BC (c3)
0105 . C. ----- Success Verify ? OK / NG ____
0106 C.
0107 C. XRT Obs. Table Upload
0108 . S. RAM ram-291:MDP_OBS_X
0109 ( )
0110 C.
0111 +. DC 07-F0 MDP_DUMP_XRTTBL
0112 BC (84 07 00 00 00 3a d4)
0113 . C. ----- Comparison Check ? OK / ERR ____
0114 C.
0115 C.
0116 +. DC 07-F0 MDP_XRT_ROI_SET
0117 BC (cd 01 b1 b1 04 04)
0118 + DC 07-F0 MDP_XRT_ROI_SET
0119 BC (cd 02 b1 b1 08 08)
0120 + DC 07-F0 MDP_XRT_ROI_SET
0121 BC (cd 03 b1 b1 08 08)
0122 + DC 07-F0 MDP_XRT_ROI_SET
0123 BC (cd 04 b1 b1 06 06)
0124 + DC 07-F0 MDP_XRT_ROI_SET
0125 BC (cd 05 85 83 06 06)
0126 + DC 07-F0 MDP_XRT_ROI_SET
0127 BC (cd 06 85 83 06 06)
0128 + DC 07-F0 MDP_XRT_ROI_SET
0129 BC (cd 07 80 80 08 08)
0130 + DC 07-F0 MDP_XRT_ROI_SET
0131 BC (cd 08 80 80 20 20)
0132 + DC 07-F0 MDP_XRT_ROI_SET
0133 BC (cd 09 80 80 20 08)
0134 + DC 07-F0 MDP_XRT_ROI_SET
0135 BC (cd 0a 80 80 08 20)
0136 + DC 07-F0 MDP_XRT_ROI_SET
0137 BC (cd 0f 80 80 06 06)
0138 + DC 07-F0 MDP_XRT_ROI_SET
0139 BC (cd 10 80 80 08 08)
0140 + DC 07-F0 MDP_XRT_FLD_ENA
0141 BC (d8)
0142 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0143 BC (c8)
0144 + DC 07-F0 MDP_XRT_ARS_DIS
0145 BC (d5)
0146 + DC 07-F0 MDP_XRT_AEC_RESET
0147 BC (d0)
0148 + DC 07-F0 MDP_XRT_FLD_RESET
0149 BC (da)
0150 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0151 BC (c4 0b)
0152 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0153 BC (c5 04)
0154 . C. ----- Success Verify ? OK / NG ____
0155 C.
0156 C.
0157 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0158 C.
0159 +. DC 07-F0 MDP_XRT_MODE_OBSV
0160 BC (c2)
0161 +. TI 2021-07-15 11:14:02.0
0162 DC 07-F0 MDP_XRT_MODE_OBSV
0163 BC (c2)
0164 . C. ----- Success Verify ? OK / NG ____
0165 C.
0166 C. ***** XRT END *****
0167 C.
0168 . C. ***** MDP `úÃîï»ö%ÝðËÄð¹ðèDCBC•x²è *****
0169 C. (%á°îÿÓYÁYÉYÉYÉYáYçYèè%¼¼¼¼»Û¹ðè)
0170 . S. DC-BC dcbc-402:DCBC
0171 (MDP_known_event)
0172 C.
0173 C.
0174 . C. ***** ¥D¥¹•İ Daily±¿İÑðË'Ø¹ðèDCBC•x²è *****
0175 . S. DC-BC dcbc-153:DCBC
0176 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0177 C.
0178 C.
0179 . C. ;ãLOS¥Á¥$¥Ã¥¹¼Å»Û;ä
0180 C.
0181 . C. ***** LOS *****
0182 C.

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

|            |            |                                   |   |       |                |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|
| 2021/07/15 | 11:24:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 11:24:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 11:24:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2021/07/15 | 11:25:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 59 db 01 81 |  |  |  |
| 2021/07/15 | 11:25:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |
| 2021/07/15 | 11:25:20.5 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |
| 2021/07/15 | 11:25:22.5 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |
| 2021/07/15 | 11:25:24.5 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |
| 2021/07/15 | 11:25:26.5 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2021/07/15 | 11:27:56.5 | XRT_QT_PROG_SET_425_OG [0x1a9]    |   |       |                |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |
| 2021/07/15 | 11:27:58.5 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |
| 2021/07/15 | 12:04:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |
| 2021/07/15 | 12:05:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |
| 2021/07/15 | 12:25:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 12:25:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 12:25:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2021/07/15 | 12:26:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 50 fd 01 81 |  |  |  |
| 2021/07/15 | 12:26:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |
| 2021/07/15 | 12:26:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |
| 2021/07/15 | 12:26:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |
| 2021/07/15 | 12:26:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |
| 2021/07/15 | 12:26:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2021/07/15 | 12:28:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]    |   |       |                |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |
| 2021/07/15 | 12:28:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |
| 2021/07/15 | 12:29:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |
| 2021/07/15 | 12:46:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 12:46:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 12:46:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2021/07/15 | 12:47:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 48 18 01 81 |  |  |  |
| 2021/07/15 | 12:47:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |
| 2021/07/15 | 12:47:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |
| 2021/07/15 | 12:47:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |
| 2021/07/15 | 12:47:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |
| 2021/07/15 | 12:47:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2021/07/15 | 12:49:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]    |   |       |                |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |
| 2021/07/15 | 12:49:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |
| 2021/07/15 | 12:50:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |
| 2021/07/15 | 13:13:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 13:13:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 13:13:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2021/07/15 | 13:13:36.0 | XRT_PREFLR_STRT_407_OG [0x197]    |   |       |                |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |
| 2021/07/15 | 13:16:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |
| 2021/07/15 | 13:42:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 13:42:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2021/07/15 | 13:42:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2021/07/15 | 13:43:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 3f 33 01 81 |  |  |  |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2021/07/15 | 13:43:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2021/07/15 | 13:43:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2021/07/15 | 13:43:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2021/07/15 | 13:43:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2021/07/15 | 13:43:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/15 | 13:45:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |  |
| 2021/07/15 | 13:45:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2021/07/15 | 13:46:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/15 | 14:03:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 14:03:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 14:03:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2021/07/15 | 14:04:00.0 | AOCS_ORe-point_Start_5_OG [0x09b] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 36 4d 01 81 |  |  |  |  |
| 2021/07/15 | 14:04:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2021/07/15 | 14:04:20.5 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2021/07/15 | 14:04:22.5 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2021/07/15 | 14:04:24.5 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2021/07/15 | 14:04:26.5 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/15 | 14:06:56.5 | XRT_QT_PROG_SET_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |  |
| 2021/07/15 | 14:06:58.5 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2021/07/15 | 14:07:00.5 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/15 | 14:24:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 14:24:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 14:24:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2021/07/15 | 14:25:00.0 | AOCS_ORe-point_Start_6_OG [0x09c] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 2d 68 01 81 |  |  |  |  |
| 2021/07/15 | 14:25:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2021/07/15 | 14:25:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2021/07/15 | 14:25:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2021/07/15 | 14:25:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2021/07/15 | 14:25:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/15 | 14:27:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |  |
| 2021/07/15 | 14:27:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2021/07/15 | 14:28:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/15 | 14:52:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 14:52:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 14:52:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/15 | 14:52:06.0 | XRT_PREFLR_STRT_407_OG [0x197]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/15 | 14:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/15 | 15:21:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 15:21:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/15 | 15:21:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2021/07/15 | 15:22:00.0 | AOCS_ORe-point_Start_7_OG [0x09d] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 24 8b 01 81 |  |  |  |  |
| 2021/07/15 | 15:22:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2021/07/15 | 15:22:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2021/07/15 | 15:22:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2021/07/15 | 15:22:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2021/07/15 | 15:22:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/15 | 15:24:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]    |   |       |                |  |  |  |  |

|            |            |                                    |                     |   |       |    |             |
|------------|------------|------------------------------------|---------------------|---|-------|----|-------------|
| 2021/07/15 | 15:24:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |
|            |            |                                    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2021/07/15 | 15:25:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2021/07/15 | 15:42:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 15:42:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 15:42:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2021/07/15 | 15:43:00.0 | AOCS_Ore-point_Start_8_OG [0x09e]  | AOCU_NM             | 5 | 02-76 | 00 | 1b a5 01 81 |
| 2021/07/15 | 15:43:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2021/07/15 | 15:43:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2021/07/15 | 15:43:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2021/07/15 | 15:43:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2021/07/15 | 15:43:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2021/07/15 | 15:45:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |
| 2021/07/15 | 15:45:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2021/07/15 | 15:46:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2021/07/15 | 16:03:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 16:03:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 16:03:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2021/07/15 | 16:04:00.0 | AOCS_Ore-point_Start_9_OG [0x09f]  | AOCU_NM             | 5 | 02-76 | 00 | 12 c0 01 81 |
| 2021/07/15 | 16:04:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2021/07/15 | 16:04:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2021/07/15 | 16:04:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2021/07/15 | 16:04:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2021/07/15 | 16:04:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2021/07/15 | 16:06:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |
| 2021/07/15 | 16:06:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2021/07/15 | 16:07:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2021/07/15 | 16:30:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 16:30:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 16:30:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2021/07/15 | 16:30:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2021/07/15 | 16:33:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2021/07/15 | 17:10:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 17:10:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 17:10:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2021/07/15 | 17:11:00.0 | AOCS_Ore-point_Start_10_OG [0x0a0] | AOCU_NM             | 5 | 02-76 | 00 | 09 db 01 81 |
| 2021/07/15 | 17:11:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2021/07/15 | 17:11:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2021/07/15 | 17:11:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2021/07/15 | 17:11:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2021/07/15 | 17:11:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2021/07/15 | 17:13:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |
| 2021/07/15 | 17:13:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |
| 2021/07/15 | 17:14:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2021/07/15 | 17:31:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 17:31:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2021/07/15 | 17:31:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |



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|            |            |                                    |                     |   |       |    |    |    |    |    |
|------------|------------|------------------------------------|---------------------|---|-------|----|----|----|----|----|
| 2021/07/15 | 17:32:00.0 | AOCS_OrE-point_Start_11_OG [0x0a1] | AOCU_NM             | 5 | 02-76 | 00 | 01 | db | 01 | 81 |
| 2021/07/15 | 17:32:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |    |
| 2021/07/15 | 17:32:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
| 2021/07/15 | 17:32:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2021/07/15 | 17:32:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2021/07/15 | 17:32:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2021/07/15 | 17:34:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11 |    |    |    |
| 2021/07/15 | 17:34:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2021/07/15 | 17:35:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2021/07/15 | 17:54:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 17:54:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 17:54:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2021/07/15 | 17:54:30.0 | AOCS_OrE-point_Start_12_OG [0x0a2] | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2021/07/15 | 17:54:48.0 | XRT_FLD_DIS_409_OG [0x199]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |    |
| 2021/07/15 | 17:54:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |    |
| 2021/07/15 | 17:54:52.0 | XRT_ARS_DIS_420_OG [0x1a4]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2021/07/15 | 17:57:28.0 | XRT_QT_PROG_SET_441_OG [0x1b9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 10 |    |    |    |
| 2021/07/15 | 17:57:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2021/07/15 | 18:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 18:09:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 18:09:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2021/07/15 | 18:09:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |    |    |    |    |
| 2021/07/15 | 18:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |    |    |    |    |
| 2021/07/15 | 18:47:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 18:47:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 18:47:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2021/07/15 | 18:48:00.0 | AOCS_OrE-point_Start_13_OG [0x0a3] | AOCU_NM             | 5 | 02-76 | 00 | f8 | fe | 01 | 81 |
| 2021/07/15 | 18:48:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |    |
| 2021/07/15 | 18:48:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
| 2021/07/15 | 18:48:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2021/07/15 | 18:48:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2021/07/15 | 18:48:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2021/07/15 | 18:50:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11 |    |    |    |
| 2021/07/15 | 18:50:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2021/07/15 | 18:51:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |    |
| 2021/07/15 | 19:08:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 19:08:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |    |
| 2021/07/15 | 19:08:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2021/07/15 | 19:09:00.0 | AOCS_OrE-point_Start_14_OG [0x0a4] | AOCU_NM             | 5 | 02-76 | 00 | f0 | 19 | 01 | 81 |
| 2021/07/15 | 19:09:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |    |
| 2021/07/15 | 19:09:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |    |
| 2021/07/15 | 19:09:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |    |
| 2021/07/15 | 19:09:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |    |
| 2021/07/15 | 19:09:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |    |
| 2021/07/15 | 19:11:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11 |    |    |    |
| 2021/07/15 | 19:11:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04 |    |    |    |
| 2021/07/15 | 19:12:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       |                     |   |       |    |    |    |    |    |

|            |            |                                    |                     |   |       |                |  |  |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|--|--|
| 2021/07/15 | 19:47:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
|            |            |                                    | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 19:47:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 19:47:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2021/07/15 | 19:47:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2021/07/15 | 19:50:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2021/07/15 | 20:24:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 20:24:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 20:24:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2021/07/15 | 20:25:00.0 | AOCS_Ore-point_Start_15_OG [0x0a5] | AOCU_NM             | 5 | 02-76 | 00 e7 34 01 81 |  |  |
| 2021/07/15 | 20:25:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2021/07/15 | 20:25:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |
| 2021/07/15 | 20:25:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |
| 2021/07/15 | 20:25:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2021/07/15 | 20:25:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2021/07/15 | 20:27:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |  |  |
| 2021/07/15 | 20:27:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |
| 2021/07/15 | 20:28:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2021/07/15 | 20:45:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 20:45:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 20:45:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2021/07/15 | 20:46:00.0 | AOCS_Ore-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 00 de 4e 01 81 |  |  |
| 2021/07/15 | 20:46:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2021/07/15 | 20:46:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |
| 2021/07/15 | 20:46:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |
| 2021/07/15 | 20:46:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2021/07/15 | 20:46:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2021/07/15 | 20:48:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |  |  |
| 2021/07/15 | 20:48:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |
| 2021/07/15 | 20:49:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |
| 2021/07/15 | 21:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 21:25:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 21:25:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2021/07/15 | 21:25:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |
| 2021/07/15 | 21:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |
| 2021/07/15 | 22:01:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 22:01:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |
| 2021/07/15 | 22:01:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2021/07/15 | 22:02:00.0 | AOCS_Ore-point_Start_17_OG [0x0a7] | AOCU_NM             | 5 | 02-76 | 00 d5 69 01 81 |  |  |
| 2021/07/15 | 22:02:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |
| 2021/07/15 | 22:02:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |
| 2021/07/15 | 22:02:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |
| 2021/07/15 | 22:02:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |
| 2021/07/15 | 22:02:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |
| 2021/07/15 | 22:04:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |  |  |
| 2021/07/15 | 22:04:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |
| 2021/07/15 | 22:05:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |

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|            |            |                                    |                     |   |       |                |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|
| 2021/07/15 | 22:22:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 22:22:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 22:22:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2021/07/15 | 22:23:00.0 | AOCS_OrE-point_Start_18_OG [0x0a8] | AOCU_NM             | 5 | 02-76 | 00 cc 8c 01 81 |
| 2021/07/15 | 22:23:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2021/07/15 | 22:23:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2021/07/15 | 22:23:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2021/07/15 | 22:23:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2021/07/15 | 22:23:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/15 | 22:25:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2021/07/15 | 22:25:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |
| 2021/07/15 | 22:26:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/15 | 23:04:00.5 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 23:04:02.5 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 23:04:04.5 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/15 | 23:04:06.5 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2021/07/15 | 23:07:14.5 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/15 | 23:36:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 23:36:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 23:36:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2021/07/15 | 23:37:00.0 | AOCS_OrE-point_Start_19_OG [0x0a9] | AOCU_NM             | 5 | 02-76 | 00 c3 a6 01 81 |
| 2021/07/15 | 23:37:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2021/07/15 | 23:37:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2021/07/15 | 23:37:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2021/07/15 | 23:37:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2021/07/15 | 23:37:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/15 | 23:39:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2021/07/15 | 23:39:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |
| 2021/07/15 | 23:40:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/15 | 23:57:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 23:57:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/15 | 23:57:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2021/07/15 | 23:58:00.0 | AOCS_OrE-point_Start_20_OG [0x0aa] | AOCU_NM             | 5 | 02-76 | 00 ba c1 01 81 |
| 2021/07/15 | 23:58:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2021/07/15 | 23:58:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2021/07/15 | 23:58:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2021/07/15 | 23:58:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2021/07/15 | 23:58:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/16 | 00:00:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2021/07/16 | 00:00:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |
| 2021/07/16 | 00:01:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/16 | 00:18:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 00:18:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 00:18:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2021/07/16 | 00:19:00.0 | AOCS_OrE-point_Start_21_OG [0x0ab] | AOCU_NM             | 5 | 02-76 | 00 b1 dc 01 81 |
| 2021/07/16 | 00:19:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2021/07/16 | 00:19:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |

|            |            |                                    |                     |   |       |    |             |  |
|------------|------------|------------------------------------|---------------------|---|-------|----|-------------|--|
| 2021/07/16 | 00:19:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |  |
|            |            |                                    | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |  |
| 2021/07/16 | 00:19:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |  |
| 2021/07/16 | 00:19:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2021/07/16 | 00:21:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |  |
| 2021/07/16 | 00:21:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |  |
| 2021/07/16 | 00:22:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2021/07/16 | 00:39:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 00:39:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 00:39:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |  |
| 2021/07/16 | 00:40:00.0 | AOCS_ORe-point_Start_22_OG [0x0ac] | AOCU_NM             | 5 | 02-76 | 01 | 00 00 00 00 |  |
| 2021/07/16 | 00:40:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |  |
| 2021/07/16 | 00:40:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |  |
| 2021/07/16 | 00:40:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |  |
| 2021/07/16 | 00:40:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |  |
| 2021/07/16 | 00:40:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2021/07/16 | 00:42:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0b          |  |
| 2021/07/16 | 00:42:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |  |
| 2021/07/16 | 01:11:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |  |
| 2021/07/16 | 01:12:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2021/07/16 | 01:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 01:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 01:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |  |
| 2021/07/16 | 02:00:00.0 | AOCS_ORe-point_Start_12_OG [0x0a2] | AOCU_NM             | 5 | 02-76 | 00 | 00 00 00 00 |  |
| 2021/07/16 | 02:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |  |
| 2021/07/16 | 02:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |  |
| 2021/07/16 | 02:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |  |
| 2021/07/16 | 02:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |  |
| 2021/07/16 | 02:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2021/07/16 | 02:02:56.0 | XRT_QT_PROG_SET_404_OG [0x194]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 13          |  |
| 2021/07/16 | 02:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 04          |  |
| 2021/07/16 | 02:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2021/07/16 | 02:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 02:17:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 02:17:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2021/07/16 | 02:17:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2021/07/16 | 02:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2021/07/16 | 02:50:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |  |
| 2021/07/16 | 02:51:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2021/07/16 | 03:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 03:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 03:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |  |
| 2021/07/16 | 03:51:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |  |
| 2021/07/16 | 03:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |  |
| 2021/07/16 | 04:28:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |  |
| 2021/07/16 | 04:29:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |  |
| 2021/07/16 | 05:20:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 05:20:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |  |
| 2021/07/16 | 05:20:34.0 | XRT_FLD_RESET_415_OG [0x19f]       |                     |   |       |    |             |  |

|            |            |                                    |                     |   |       |                |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|
| 2021/07/16 | 05:20:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/16 | 05:23:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2021/07/16 | 06:06:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/16 | 06:07:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/16 | 06:11:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 06:11:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 06:11:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2021/07/16 | 06:11:48.0 | XRT_FLD_DIS_409_OG [0x199]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2021/07/16 | 06:11:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2021/07/16 | 06:11:52.0 | XRT_ARS_DIS_420_OG [0x1a4]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2021/07/16 | 06:14:28.0 | XRT_QT_PROG_SET_441_OG [0x1b9]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 10          |
| 2021/07/16 | 06:14:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/16 | 06:21:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 06:21:26.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 06:21:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2021/07/16 | 06:21:30.0 | AOCS_OrE-point_Start_22_OG [0x0ac] | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |
| 2021/07/16 | 06:21:48.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2021/07/16 | 06:21:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2021/07/16 | 06:21:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2021/07/16 | 06:21:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2021/07/16 | 06:21:56.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/16 | 06:24:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |
| 2021/07/16 | 06:24:28.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |
| 2021/07/16 | 06:24:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/16 | 07:01:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 07:01:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 07:01:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/16 | 07:01:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2021/07/16 | 07:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/16 | 07:45:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/16 | 07:46:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/16 | 08:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 08:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 08:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/16 | 08:41:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2021/07/16 | 08:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/16 | 09:23:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/16 | 09:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/16 | 10:21:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 10:21:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 10:21:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2021/07/16 | 10:21:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2021/07/16 | 10:24:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/16 | 11:01:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2021/07/16 | 11:02:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2021/07/16 | 12:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 12:11:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2021/07/16 | 12:11:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |

|            |            |                                    |   |       |                |  |  |  |  |
|------------|------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2021/07/16 | 12:11:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 12:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 12:40:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2021/07/16 | 12:41:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 13:49:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 13:49:32.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 13:49:34.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 13:49:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 13:52:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 14:18:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2021/07/16 | 14:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 15:28:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 15:28:02.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 15:28:04.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 15:28:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 15:31:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 15:59:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2021/07/16 | 16:00:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 17:06:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 17:06:02.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 17:06:04.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 17:06:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 17:09:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 17:45:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2021/07/16 | 17:46:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 18:00:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 18:00:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 18:00:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2021/07/16 | 18:00:30.0 | AOCS_OrE-point_Start_12_OG [0x0a2] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2021/07/16 | 18:00:48.0 | XRT_FLD_DIS_409_OG [0x199]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | d9             |  |  |  |  |
| 2021/07/16 | 18:00:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |  |  |  |  |
| 2021/07/16 | 18:00:52.0 | XRT_ARS_DIS_420_OG [0x1a4]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2021/07/16 | 18:03:28.0 | XRT_QT_PROG_SET_441_OG [0x1b9]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2021/07/16 | 18:03:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 18:10:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 18:10:26.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 18:10:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2021/07/16 | 18:10:30.0 | AOCS_OrE-point_Start_22_OG [0x0ac] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2021/07/16 | 18:10:48.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
| 2021/07/16 | 18:10:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2021/07/16 | 18:10:52.0 | XRT_AEC_RESET_448_OG [0x1c0]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2021/07/16 | 18:10:54.0 | XRT_ARS_DIS_423_OG [0x1a7]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2021/07/16 | 18:10:56.0 | XRT_FLD_RESET_434_OG [0x1b2]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 18:13:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 0b          |  |  |  |  |
| 2021/07/16 | 18:13:28.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2021/07/16 | 18:13:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 18:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 18:44:32.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 18:44:34.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |

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|            |            |                                    |                     |   |       |                |  |  |  |  |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|--|--|--|--|
| 2021/07/16 | 18:44:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 18:47:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 19:22:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 19:23:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 20:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 20:23:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 20:23:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 20:23:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 20:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 20:59:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 21:00:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 22:01:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 22:01:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 22:01:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 22:01:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 22:04:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 22:36:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/16 | 22:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 23:39:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 23:39:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 23:39:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/16 | 23:39:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/16 | 23:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/16 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 23:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/16 | 23:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2021/07/17 | 00:00:00.0 | AOCS_Ore-point_Start_23_OG [0x0ad] | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |  |  |  |  |
| 2021/07/17 | 00:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |
| 2021/07/17 | 00:00:20.5 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |  |
| 2021/07/17 | 00:00:22.5 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |  |  |
| 2021/07/17 | 00:00:24.5 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2021/07/17 | 00:00:26.5 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/17 | 00:02:56.5 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0e          |  |  |  |  |
| 2021/07/17 | 00:02:58.5 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 04          |  |  |  |  |
| 2021/07/17 | 00:10:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/17 | 00:11:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/17 | 01:18:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/17 | 01:18:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/17 | 01:18:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/17 | 01:18:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/17 | 01:21:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/17 | 01:47:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2021/07/17 | 01:48:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/17 | 02:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/17 | 02:50:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2021/07/17 | 02:50:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2021/07/17 | 02:50:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2021/07/17 | 02:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2021/07/17 | 02:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |                     |   |       |                |  |  |  |  |

|            |            |                                    |                           |   |       |                |  |  |
|------------|------------|------------------------------------|---------------------------|---|-------|----------------|--|--|
| 2021/07/17 | 02:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 02:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 03:00:00.0 | AOCS_Orе-point_Start_12_OG [0x0a2] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2021/07/17 | 03:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM                   | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2021/07/17 | 03:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |  |  |
| 2021/07/17 | 03:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |  |  |
| 2021/07/17 | 03:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |  |  |
| 2021/07/17 | 03:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |  |  |
| 2021/07/17 | 03:02:56.0 | XRT_QT_PROG_SET_404_OG [0x194]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2021/07/17 | 03:02:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 13          |  |  |
| 2021/07/17 | 03:25:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 04          |  |  |
| 2021/07/17 | 03:26:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
| 2021/07/17 | 04:24:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2021/07/17 | 04:24:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 04:24:04.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 04:24:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2021/07/17 | 04:27:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |  |  |
| 2021/07/17 | 05:04:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |  |  |
| 2021/07/17 | 05:05:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
| 2021/07/17 | 05:46:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2021/07/17 | 05:46:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 05:46:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 05:47:18.0 | XRT_FLD_DIS_409_OG [0x199]         | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2021/07/17 | 05:47:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]     | MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |  |  |
| 2021/07/17 | 05:47:22.0 | XRT_ARS_DIS_420_OG [0x1a4]         | MDP_XRT_FLRCTRL_DIS       | 1 | 07-F0 | c9             |  |  |
| 2021/07/17 | 05:49:58.0 | XRT_QT_PROG_SET_441_OG [0x1b9]     | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |  |  |
| 2021/07/17 | 05:50:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 10          |  |  |
| 2021/07/17 | 05:56:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2021/07/17 | 05:56:56.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 05:56:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 05:57:18.0 | XRT_FLD_ENA_411_OG [0x19b]         | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2021/07/17 | 05:57:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |  |  |
| 2021/07/17 | 05:57:22.0 | XRT_AEC_RESET_448_OG [0x1c0]       | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |  |  |
| 2021/07/17 | 05:57:24.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |  |  |
| 2021/07/17 | 05:57:26.0 | XRT_FLD_RESET_434_OG [0x1b2]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |  |  |
| 2021/07/17 | 05:59:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2021/07/17 | 05:59:58.0 | XRT_FL_PROG_SET_418_OG [0x1a2]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 09          |  |  |
| 2021/07/17 | 06:42:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 04          |  |  |
| 2021/07/17 | 06:43:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
| 2021/07/17 | 07:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2021/07/17 | 07:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 07:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 07:37:36.0 | XRT_PREFLR_STRT_407_OG [0x197]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |  |  |
| 2021/07/17 | 07:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |  |  |
| 2021/07/17 | 08:20:30.5 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |  |  |
| 2021/07/17 | 08:21:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |  |  |
| 2021/07/17 | 09:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |  |  |
| 2021/07/17 | 09:17:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |
| 2021/07/17 | 09:17:02.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |  |  |



|            |            |                                    |   |       |                |
|------------|------------|------------------------------------|---|-------|----------------|
| 2021/07/17 | 09:17:04.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2021/07/17 | 09:17:06.0 | XRT_PREFLR_STRT_407_OG [0x197]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |
| 2021/07/17 | 09:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2021/07/17 | 09:59:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2021/07/17 | 10:00:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2021/07/17 | 10:07:00.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2021/07/17 | 11:31:00.0 | AOCS_ORe-point_Start_12_OG [0x0a2] |   |       |                |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |