

# XRT Timeline to be uploaded on 2019/08/20

Period: 2019/08/20 10:42:00 - 2019/08/24 10:08:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

| XOB #1C5C: Quiet Sun - Al/Mesh, Al/poly - 2x2 - 768 FOV 1064 1048 - Gband (1ms/1ms leak) 384x384 - AEC 2/3 180s cadence |   |                                  |  |  |  |  |  |  |  |  |  |  |
|---|---|----------------------------------|--|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)                                       | Comment                          |  |  |  |  |  |  |  |  |  |  |
| 08/20 11:13:30 - 08/20 17:28:00   | Fixed ( -908.0, 120.0)                                | # OP start + 10min, Filament obs |  |  |  |  |  |  |  |  |  |  |
| 08/20 18:15:30 - 08/21 01:35:30   | Fixed ( -908.0, 120.0)                                | Filament                         |  |  |  |  |  |  |  |  |  |  |
| 08/21 06:03:00 - 08/21 07:54:54   | Track ( -849.6, 99.6) <small>Ⓢ 08/21 06:00:00</small> | Filament                         |  |  |  |  |  |  |  |  |  |  |
| 08/21 18:38:00 - 08/22 01:59:54   | Track ( -798.4, 88.1) <small>Ⓢ 08/21 17:59:30</small> | Filament                         |  |  |  |  |  |  |  |  |  |  |
| 08/22 06:13:00 - 08/22 07:55:54   | Track ( -735.3, 77.0) <small>Ⓢ 08/22 06:10:00</small> | Filament                         |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 04 Inf.-time(s)</b>  |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 2.0sec   |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 92 1-time(s) 30.0sec   |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ 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 20-time(s) 2.0sec  |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 59 1-time(s) 180.0sec  |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 5.66s Obs 2x2 768x768 (1064, 1048) Q=95 2 0 2.0sec                     |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 5.66s Obs 2x2 768x768 (1064, 1048) Q=95 3 0 2.0sec                     |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Open Al-poly/Open close Safe Norm 8.00s Obs 2x2 768x768 (1064, 1048) Q=95 2 0 2.0sec                     |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Open Al-poly/Open close Safe Norm 8.00s Obs 2x2 768x768 (1064, 1048) Q=95 3 0 2.0sec                     |   |                                  |  |  |  |  |  |  |  |  |  |  |
| └─ Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval               |   |                                  |  |  |  |  |  |  |  |  |  |  |

| XOB #1C5E: Synoptic 7 Filter w/ Al-mesh(512/2048/5795), Al-poly(512/5795/11571), Thin-Be(3897/16384/32768) - Thick-Be(65536), Al-poly+Ti-poly(4096/23104) |                   |                           |  |  |  |  |  |  |  |  |  |  |
|---|-------------------|---------------------------|--|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)   | Comment                   |  |  |  |  |  |  |  |  |  |  |
| 08/20 18:05:30 - 08/20 18:12:24   | Fixed ( 0.0, 0.0) | synoptic, shifted 2.5 min |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 14 1-time(s)</b>   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─ 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= 78 1-time(s) 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 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 91 1-time(s) 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 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Open Al-poly/Open close Safe Norm 11.3s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 52 1-time(s) 2.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ thin-Be/Open thin-Be/Open close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ thin-Be/Open thin-Be/Open close Safe Norm 16.0s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ thin-Be/Open thin-Be/Open close Safe Norm 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 23 1-time(s) 4.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 2 1-time(s) 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 46 1-time(s) 2.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/thick-Be Open/thick-Be close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 17 1-time(s) 2.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ med-Al/Open med-Al/Open close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ med-Al/Open med-Al/Open close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec   |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 97 1-time(s) 2.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec  |                   |                           |  |  |  |  |  |  |  |  |  |  |
| └─ Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval   |                   |                           |  |  |  |  |  |  |  |  |  |  |

| XOB #1C4D: HOP349 - 3-filter Synoptics (Al-mesh[128/1024/5795], Al-poly[256/4096/8192], thin-Be[2048/16384/32768] with 512x512 G-band+Leak(1064,1048) |                   |                       |  |  |  |  |  |  |  |  |  |  |
|---|-------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)   | Comment               |  |  |  |  |  |  |  |  |  |  |
| 08/21 02:03:00 - 08/21 04:24:24   | Fixed ( 0.0, 0.0) | HOP 173, synoptic obs |  |  |  |  |  |  |  |  |  |  |
| 08/21 05:15:00 - 08/21 05:59:54   | Fixed ( 0.0, 0.0) | HOP 173, synoptic obs |  |  |  |  |  |  |  |  |  |  |
| 08/22 02:33:30 - 08/22 03:41:00   | Fixed ( 0.0, 0.0) | HOP173, synoptic obs. |  |  |  |  |  |  |  |  |  |  |
| 08/22 04:21:30 - 08/22 06:09:54   | Fixed ( 0.0, 0.0) | HOP173, synoptic obs. |  |  |  |  |  |  |  |  |  |  |
| <b>PROG= 05 Inf.-time(s)</b>  |                   |                       |  |  |  |  |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 300.0sec   |                   |                       |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 88 1-time(s) 2.0sec  |                   |                       |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                       |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                       |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Open/Al-mesh Open/Al-mesh close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                       |  |  |  |  |  |  |  |  |  |  |
| └─┬─ Seqn= 50 1-time(s) 2.0sec  |                   |                       |  |  |  |  |  |  |  |  |  |  |
| └─┬─┬─ Al-poly/Open Al-poly/Open close Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec   |                   |                       |  |  |  |  |  |  |  |  |  |  |

|                 |                  |                  |      |       |                 |     |     |                        |       |            |          |        |
|-----------------|------------------|------------------|------|-------|-----------------|-----|-----|------------------------|-------|------------|----------|--------|
| Al-poly/Open    | Al-poly/thick-Al | close            | Safe | Norm  | 4.00s           | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open    | Al-poly/Open     | close            | Safe | Norm  | 8.00s           | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 56</b> |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b>   |     |     |                        |       |            |          |        |
| thin-Be/Open    | thin-Be/Open     | close            | Safe | Norm  | 2.00s           | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open    | thin-Be/Open     | close            | Safe | Norm  | 16.0s           | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open    | thin-Be/Open     | close            | Safe | Norm  | 32.0s           | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 81</b> |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b>   |     |     |                        |       |            |          |        |
| Open/G-band     | Open/G-band      | open             | Safe | Norm  | 1ms             | Obs | 1x1 | 512x512 (1064, 1048)   | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band     | Open/G-band      | close            | Safe | Norm  | 1ms             | Obs | 1x1 | 512x512 (1064, 1048)   | Q=95  | 0          | 0        | 2.0sec |
| <b>Subr= 2</b>  |                  | <b>6-time(s)</b> |      |       | <b>450.0sec</b> |     |     |                        |       |            |          |        |
| <b>Seqn= 8</b>  |                  | <b>1-time(s)</b> |      |       | <b>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</b>  |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b>   |     |     |                        |       |            |          |        |
| Al-poly/Open    | Al-poly/Open     | close            | Safe | Norm  | 125ms           | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| Al-poly/Open    | Al-poly/Open     | close            | Safe | Norm  | 1.00s           | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 2          | 0        | 2.0sec |
| <b>Seqn= 29</b> |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b>   |     |     |                        |       |            |          |        |
| Open/Al-mesh    | Open/Al-mesh     | close            | Safe | Norm  | 125ms           | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 3          | 0        | 2.0sec |
| Open/Al-mesh    | Open/Al-mesh     | close            | Safe | Norm  | 250ms           | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 2          | 0        | 2.0sec |
| Default Filter  | Thicker Filter   | VLS              | mode | image | Exp.            | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

**XOB #1C55: Synoptic Q95 2x2 - Al/mesh(512/2048/5795) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(512/5795/1157)**

| Term                            | Pointing (x, y)   | Comment                     |
|---------------------------------|-------------------|-----------------------------|
| 08/21 04:27:30 - 08/21 04:34:30 | Fixed ( 0.0, 0.0) | HOP 173, synoptic obs       |
| 08/21 17:52:30 - 08/21 17:59:24 | Fixed ( 0.0, 0.0) | synoptic, shifted -10.5 min |
| 08/22 04:11:30 - 08/22 04:18:24 | Fixed ( 0.0, 0.0) | HOP173, synoptic obs.       |

|                 |                  |                  |      |       |               |     |     |                        |       |            |          |        |
|-----------------|------------------|------------------|------|-------|---------------|-----|-----|------------------------|-------|------------|----------|--------|
| <b>PROG= 07</b> |                  | <b>1-time(s)</b> |      |       |               |     |     |                        |       |            |          |        |
| <b>Subr= 1</b>  |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b> |     |     |                        |       |            |          |        |
| <b>Seqn= 5</b>  |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b> |     |     |                        |       |            |          |        |
| Open/Ti-poly    | Open/thick-Al    | close            | Safe | Dark  | 500ms         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/thick-Al    | close            | Safe | Dark  | 500ms         | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/thick-Al    | close            | Safe | Dark  | 500ms         | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/thick-Al    | close            | Safe | Dark  | 500ms         | Obs | 1x1 | 2048x512 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/thick-Al    | close            | Safe | Dark  | 500ms         | Obs | 1x1 | 512x2048 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
| <b>Seqn= 78</b> |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b> |     |     |                        |       |            |          |        |
| 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  | 2.00s         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh    | Open/Al-mesh     | close            | Safe | Norm  | 5.66s         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 91</b> |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b> |     |     |                        |       |            |          |        |
| 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  | 5.66s         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open    | Al-poly/Open     | close            | Safe | Norm  | 11.3s         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 52</b> |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b> |     |     |                        |       |            |          |        |
| thin-Be/Open    | thin-Be/Open     | close            | Safe | Norm  | 2.83s         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open    | thin-Be/Open     | close            | Safe | Norm  | 16.0s         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open    | thin-Be/Open     | close            | Safe | Norm  | 32.0s         | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 23</b> |                  | <b>1-time(s)</b> |      |       | <b>2.0sec</b> |     |     |                        |       |            |          |        |
| Open/G-band     | Open/G-band      | open             | Safe | Norm  | 1ms           | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band     | Open/G-band      | close            | Safe | Norm  | 1ms           | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Default Filter  | Thicker Filter   | VLS              | mode | image | Exp.          | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

**XOB #1C20: AR (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 512x512 at 1064 1048, thick-Al context, with G-band (1ms/1ms leak), 120s**

| Term                            | Pointing (x, y)                        | Comment |
|---------------------------------|--|---------|
| 08/21 08:31:30 - 08/21 09:34:30 | Track ( -91.5, 798.5) @ 08/21 07:56:00 | HOP383  |
| 08/22 07:59:00 - 08/22 09:45:00 | Track ( -28.9, 797.6) @ 08/22 07:56:00 | HOP383  |

|                 |                |                     |      |       |                 |     |     |                      |       |            |          |        |
|-----------------|----------------|---------------------|------|-------|-----------------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>PROG= 12</b> |                | <b>Inf.-time(s)</b> |      |       |                 |     |     |                      |       |            |          |        |
| <b>Subr= 1</b>  |                | <b>1-time(s)</b>    |      |       | <b>2.0sec</b>   |     |     |                      |       |            |          |        |
| <b>Seqn= 92</b> |                | <b>1-time(s)</b>    |      |       | <b>2.0sec</b>   |     |     |                      |       |            |          |        |
| Open/G-band     | Open/G-band    | open                | Safe | Norm  | 1ms             | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| Open/G-band     | Open/G-band    | close               | Safe | Norm  | 1ms             | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/thick-Al  | close               | Safe | Dark  | 16.0s           | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-Al   | Open/thick-Be  | close               | Safe | Norm  | 16.0s           | Obs | 1x1 | 512x512 (1064, 1048) | Q=98  | 3          | 0        | 2.0sec |
| <b>Subr= 2</b>  |                | <b>60-time(s)</b>   |      |       | <b>120.0sec</b> |     |     |                      |       |            |          |        |
| <b>Seqn= 94</b> |                | <b>1-time(s)</b>    |      |       | <b>40.0sec</b>  |     |     |                      |       |            |          |        |
| Al-poly/Open    | thin-Be/Open   | close               | Safe | Norm  | 250ms           | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
| Al-poly/Open    | thin-Be/Open   | close               | Safe | Norm  | 250ms           | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| thin-Be/Open    | med-Be/Open    | close               | Safe | Norm  | 500ms           | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
| thin-Be/Open    | med-Be/Open    | close               | Safe | Norm  | 500ms           | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| <b>Seqn= 58</b> |                | <b>1-time(s)</b>    |      |       | <b>40.0sec</b>  |     |     |                      |       |            |          |        |
| Al-poly/Open    | thin-Be/Open   | close               | Safe | Norm  | 500ms           | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |
| thin-Be/Open    | med-Be/Open    | close               | Safe | Norm  | 1.00s           | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |
| <b>Seqn= 48</b> |                | <b>1-time(s)</b>    |      |       | <b>2.0sec</b>   |     |     |                      |       |            |          |        |
| Al-poly/Open    | thin-Be/Open   | close               | Safe | Norm  | 500ms           | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |
| thin-Be/Open    | med-Be/Open    | close               | Safe | Norm  | 1.00s           | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |
| Default Filter  | Thicker Filter | VLS                 | mode | image | Exp.            | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

**XOB #1C5D: CME watch - 4x4 - AEC 2/3 - Al-poly - AEC2 - Be-thin - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 360s cad (G-band/Leak first)**

| Term                            | Pointing (x, y)                        | Comment  |
|---------------------------------|--|--|
| 08/21 10:10:00 - 08/21 17:49:24 | Track ( 370.1, 146.7) @ 08/21 10:00:00 | CBPs   |
| <b>PROG= 01 Inf.-time(s)</b>    |  |  |
| 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 10-time(s) 360.0sec     |  |  |
| 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= 83 1-time(s) 2.0sec       |  |  |
| thin-Be/Open                    | med-Be/Open close                      | Safe Norm 1.41s 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 |

\* \* \* \* \* **Flare mode** \* \* \* \* \*

**XOB #1B8E: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512)**

| Term                            | Pointing (x, y)                        | Comment  |
|---------------------------------|--|--|
| 08/20 11:13:30 - 08/20 17:28:00 | Fixed ( -908.0, 120.0)                 | # OP start + 10min, Filament obs                                     |
| 08/20 18:15:30 - 08/21 01:35:30 | Fixed ( -908.0, 120.0)                 | Filament   |
| 08/21 02:03:00 - 08/21 04:24:24 | Fixed ( 0.0, 0.0)                      | HOP 173, synoptic obs  |
| 08/21 05:15:00 - 08/21 05:59:54 | Fixed ( 0.0, 0.0)                      | HOP 173, synoptic obs  |
| 08/21 06:03:00 - 08/21 07:54:54 | Track ( -849.6, 99.6) @ 08/21 06:00:00 | Filament   |
| 08/21 08:31:30 - 08/21 09:34:30 | Track ( -91.5, 798.5) @ 08/21 07:56:00 | HOP383   |
| 08/21 10:10:00 - 08/21 17:49:24 | Track ( 370.1, 146.7) @ 08/21 10:00:00 | CBPs   |
| 08/21 18:38:00 - 08/22 01:59:54 | Track ( -798.4, 88.1) @ 08/21 17:59:30 | Filament   |
| 08/22 02:33:30 - 08/22 03:41:00 | Fixed ( 0.0, 0.0)                      | HOP173, synoptic obs.  |
| 08/22 04:21:30 - 08/22 06:09:54 | Fixed ( 0.0, 0.0)                      | HOP173, synoptic obs.  |
| 08/22 06:13:00 - 08/22 07:55:54 | Track ( -735.3, 77.0) @ 08/22 06:10:00 | Filament   |
| 08/22 07:59:00 - 08/22 09:45:00 | Track ( -28.9, 797.6) @ 08/22 07:56:00 | HOP383   |
| <b>PROG= 13 30-time(s)</b>      |  |  |
| Subr= 1 20-time(s) 2.0sec       |  |  |
| Seqn= 11 1-time(s) 2.0sec       |  |  |
| Al-poly/Open                    | Al-poly/thick-Al close                 | Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 0 2.0sec         |
| Seqn=100 1-time(s) 10.0sec      |  |  |
| thin-Be/Open                    | med-Be/Open close                      | Safe Norm 125ms Obs 1x1 384x384 (1024, 1024) Q=95 2 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-Al                   | Open/thick-Be close                    | Safe Norm 1.00s Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec         |
| Subr= 2 1-time(s) 2.0sec        |  |  |
| Seqn= 10 1-time(s) 2.0sec       |  |  |
| med-Al/Open                     | med-Al/thick-Al close                  | Safe Norm 500ms Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec         |
| Open/thick-Be                   | Open/thick-Be close                    | Safe Norm 2.00s Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec         |
| Seqn= 11 1-time(s) 2.0sec       |  |  |
| Al-poly/Open                    | Al-poly/thick-Al close                 | Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 0 2.0sec         |
| Seqn= 87 1-time(s) 2.0sec       |  |  |
| Open/G-band                     | Open/G-band open                       | Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec           |
| Open/G-band                     | Open/G-band close                      | Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec           |
| Open/thick-Al                   | Open/thick-Al close                    | Safe Dark 1.00s Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec         |
| Open/thick-Al                   | Open/thick-Al close                    | Safe Dark 1.00s Obs 2x2 512x512 (1024, 1024) Q=98 0 0 2.0sec         |
| Default Filter                  | Thicker Filter VLS                     | mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

\* \* \* \* \* **Active Region Search** \* \* \* \* \*

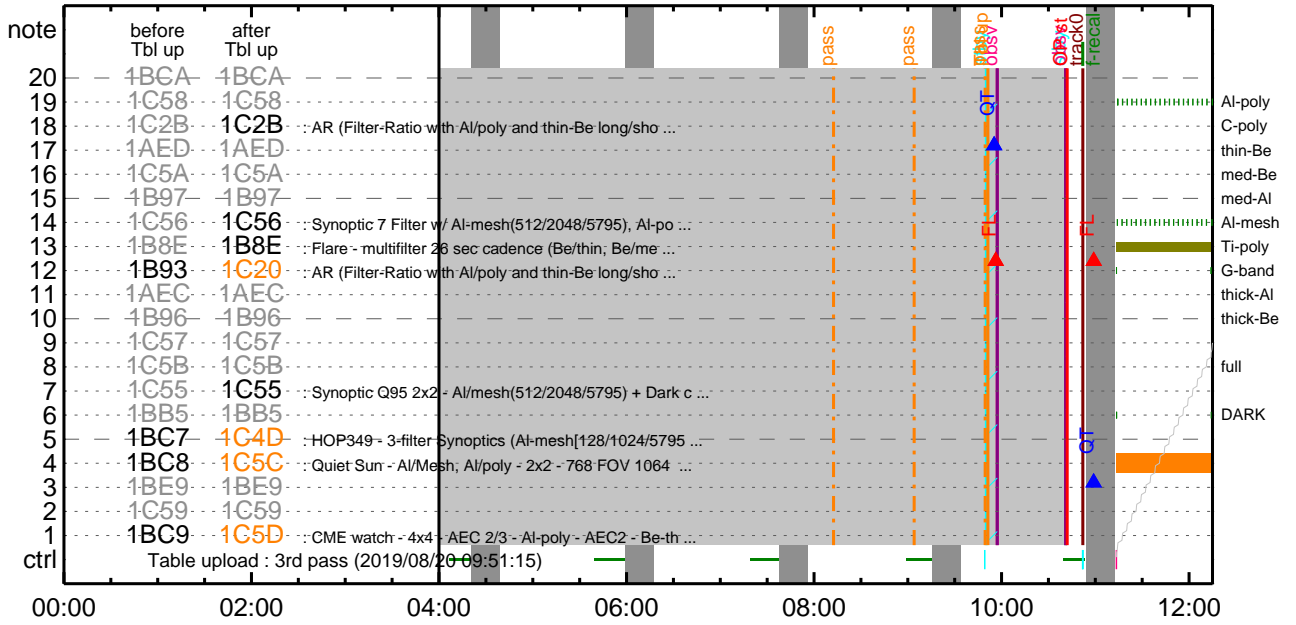
NOT USED

\* \* \* \* \* **Flare Detection** \* \* \* \* \*

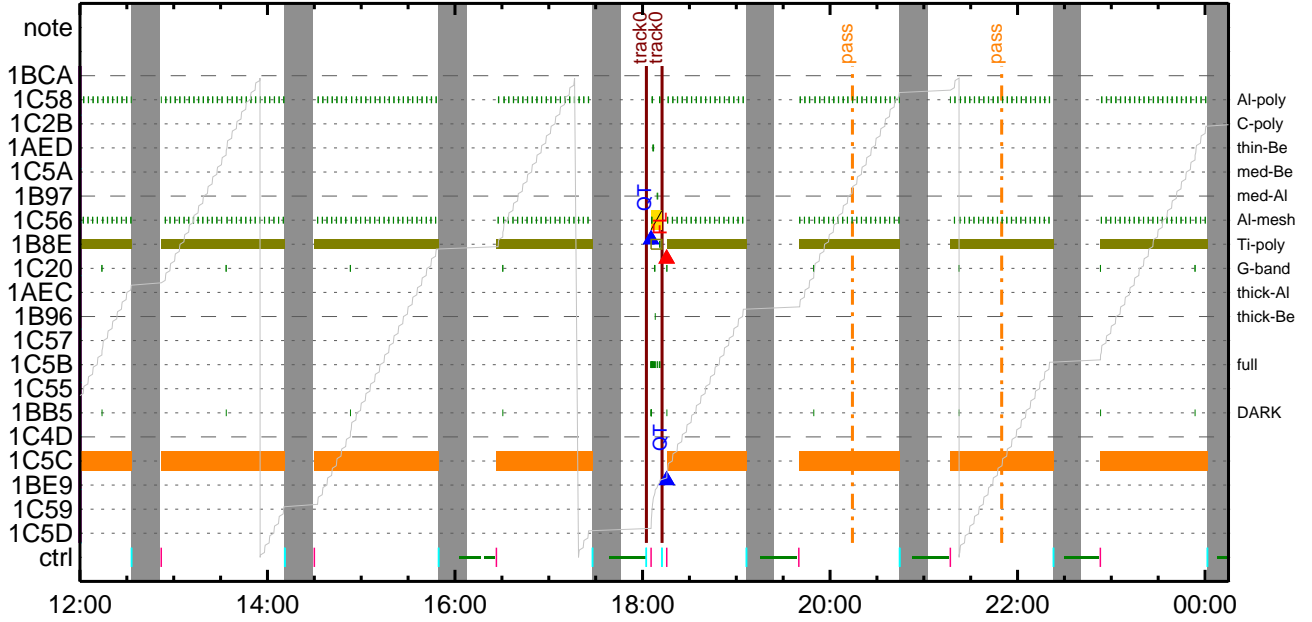
**FLD Patrol**

| Term                            | Pointing (x, y)                        | Comment  |
|---------------------------------|--|--|
| 08/20 10:56:18 - 08/20 18:02:48 | Fixed ( -908.0, 120.0)                 | # OP start + 10min, Filament obs                                     |
| 08/20 18:12:48 - 08/21 04:24:48 | Fixed ( -908.0, 120.0)                 | Filament   |
| 08/21 05:12:18 - 08/21 17:49:48 | Fixed ( 0.0, 0.0)                      | HOP 173, synoptic obs  |
| 08/21 17:59:48 - 08/22 04:08:48 | Track ( -798.4, 88.1) @ 08/21 17:59:30 | Filament   |
| 08/22 04:18:48 - 08/24 10:08:00 | Fixed ( 0.0, 0.0)                      | HOP173, synoptic obs.  |
| Al-poly/Open                    | Al-poly/Open close                     | Safe Norm 8ms Obs 8x8 Q=50 80sec                                     |
| Default Filter                  | Thicker Filter VLS                     | mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

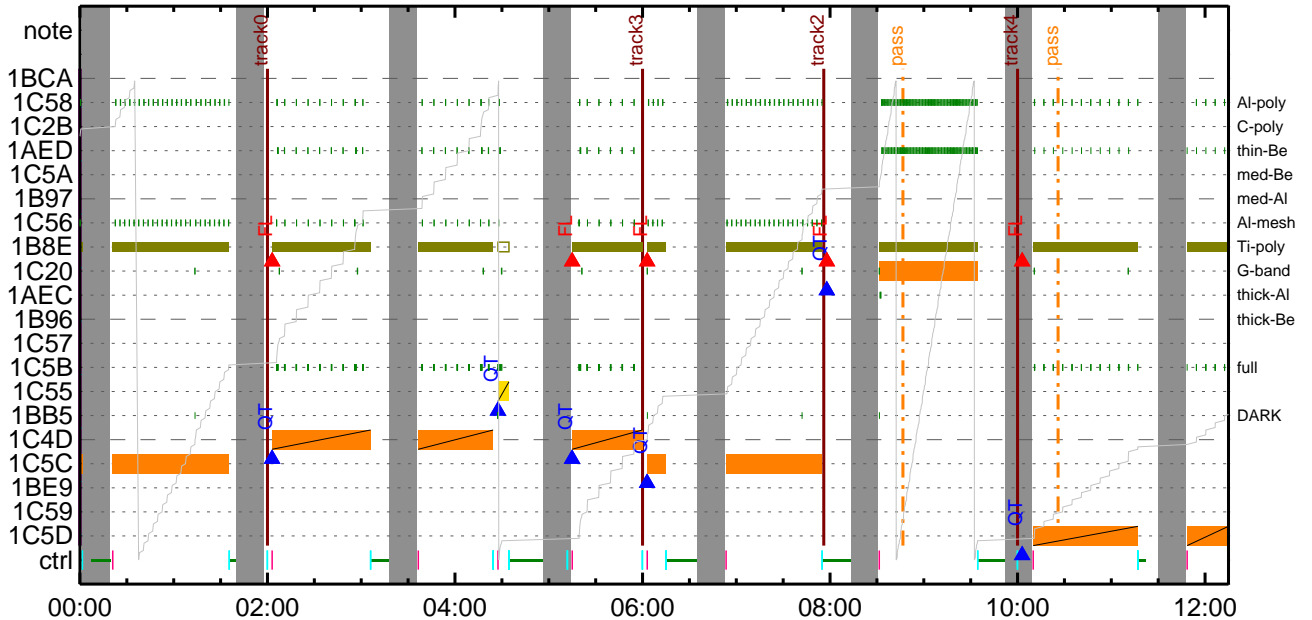
### CMDI #0427 2019/08/20



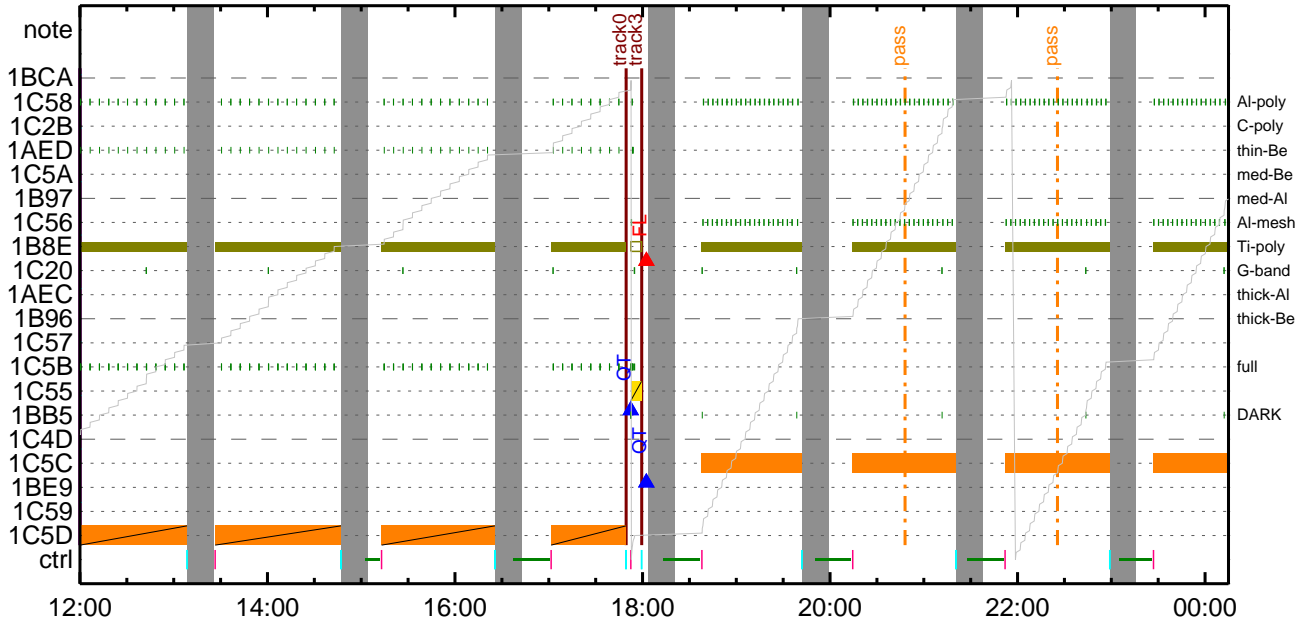
### CMDI #0427 2019/08/20



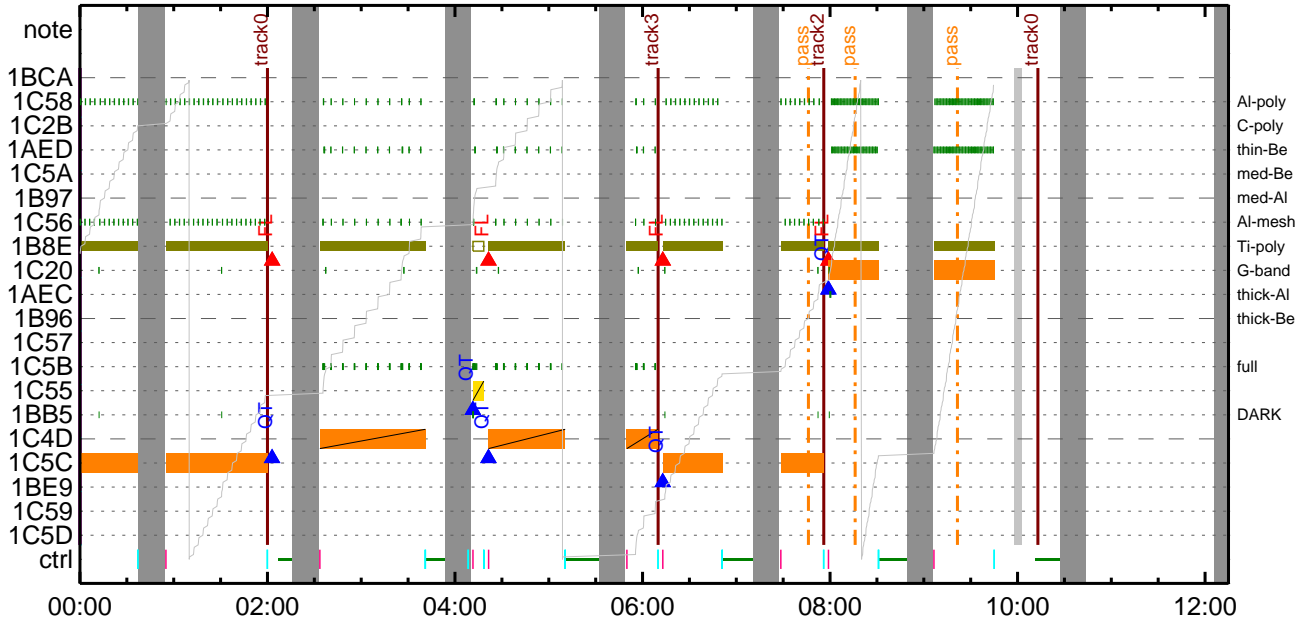
### CMDI #0427 2019/08/21



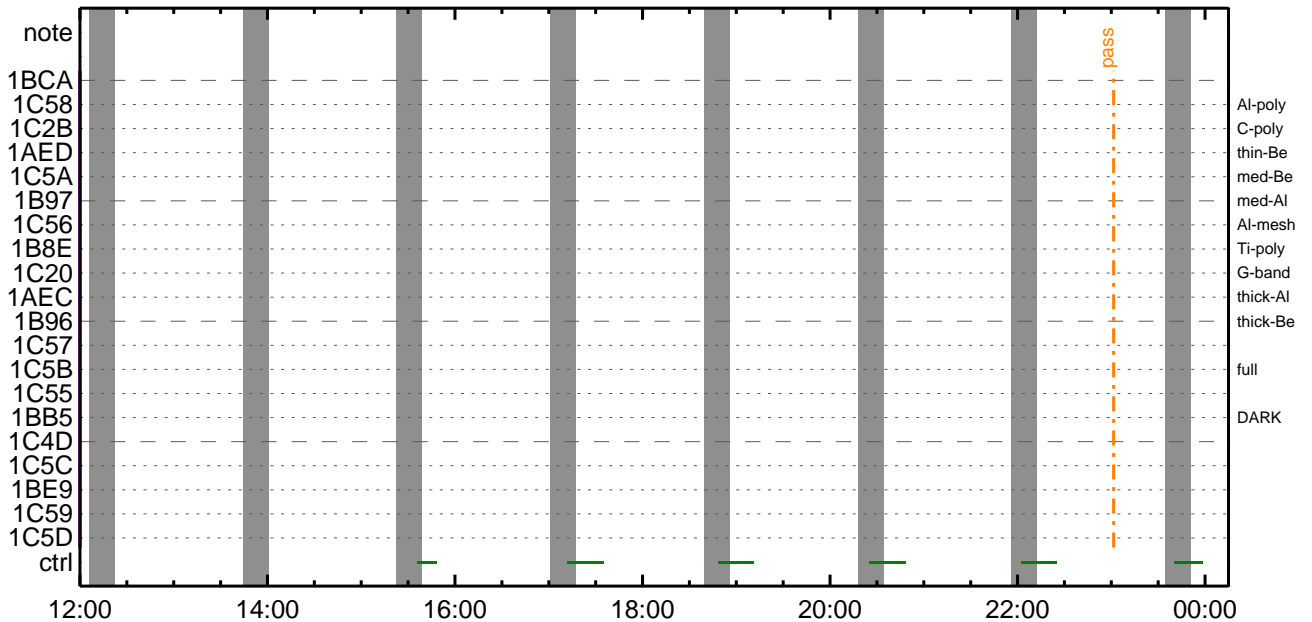
CMDI #0427 2019/08/21



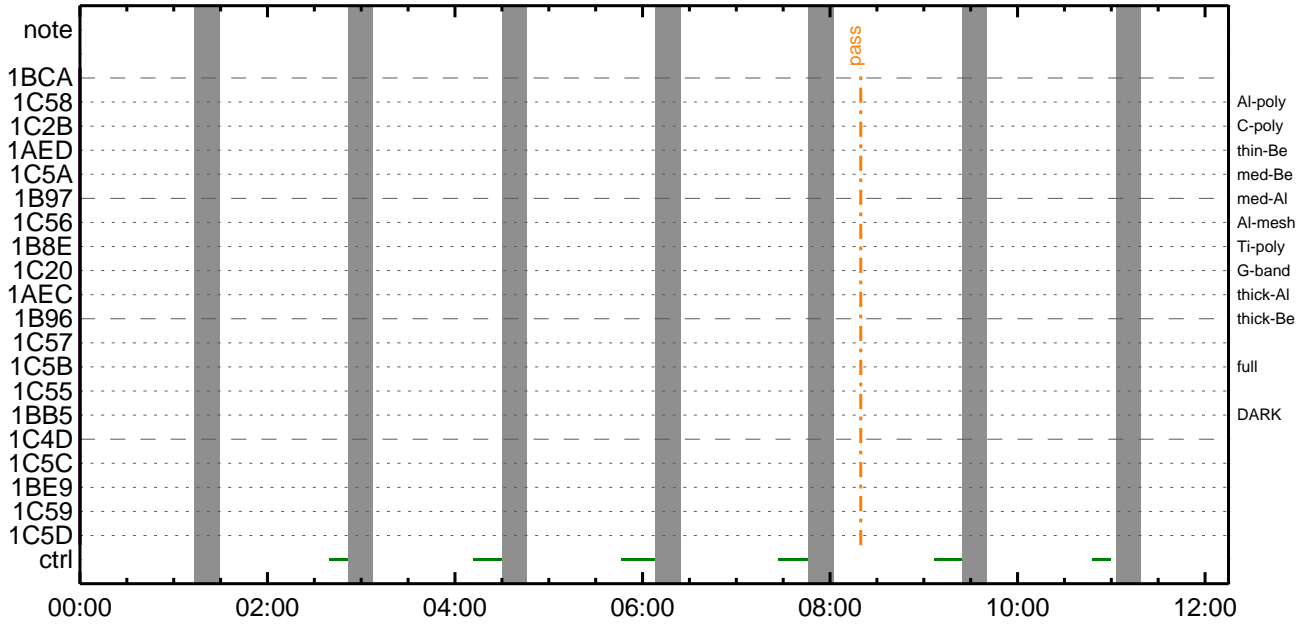
CMDI #0427 2019/08/22



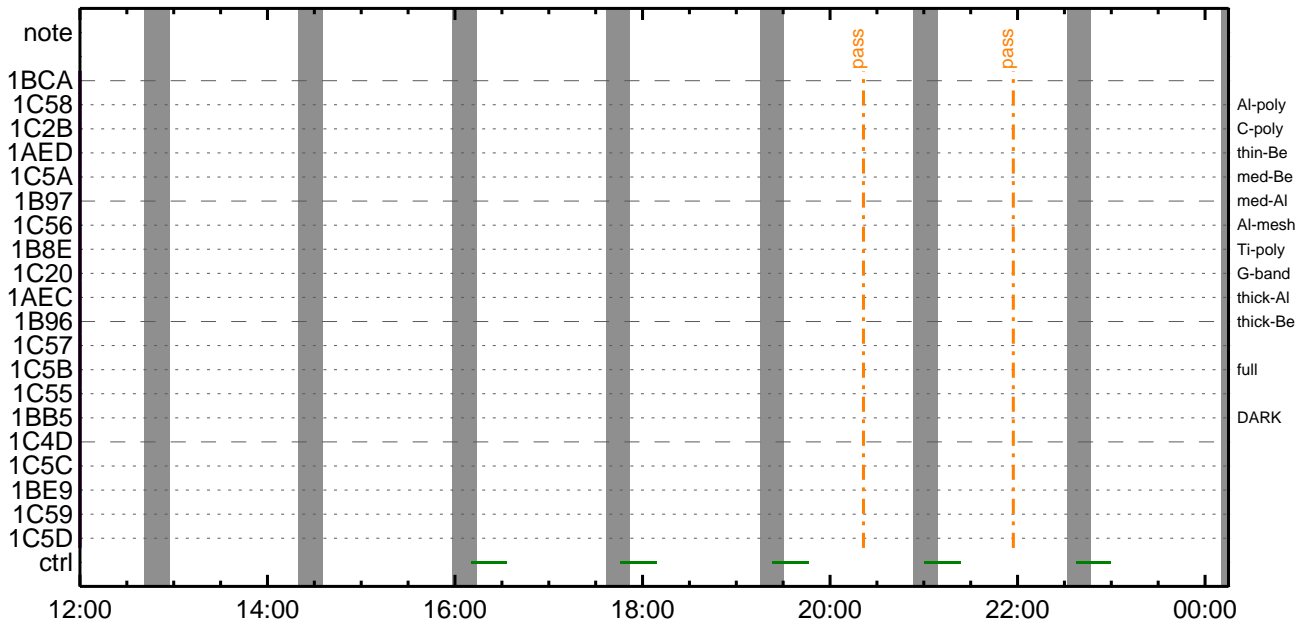
CMDI #0427 2019/08/22



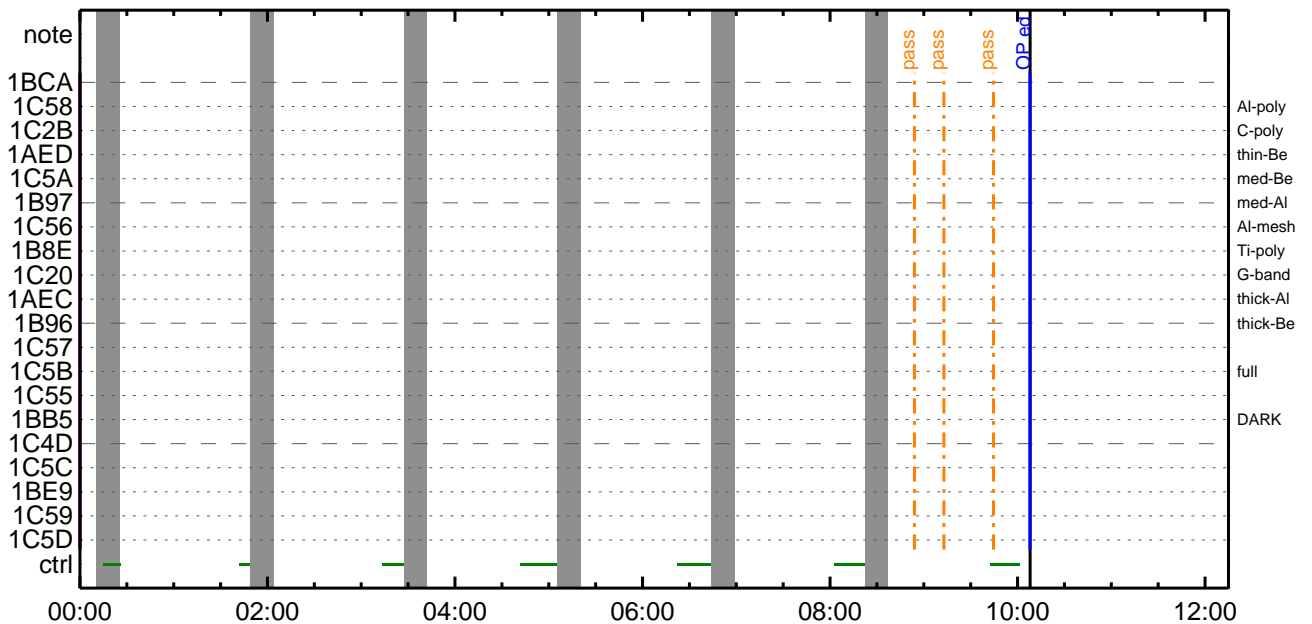
CMDI #0427 2019/08/23



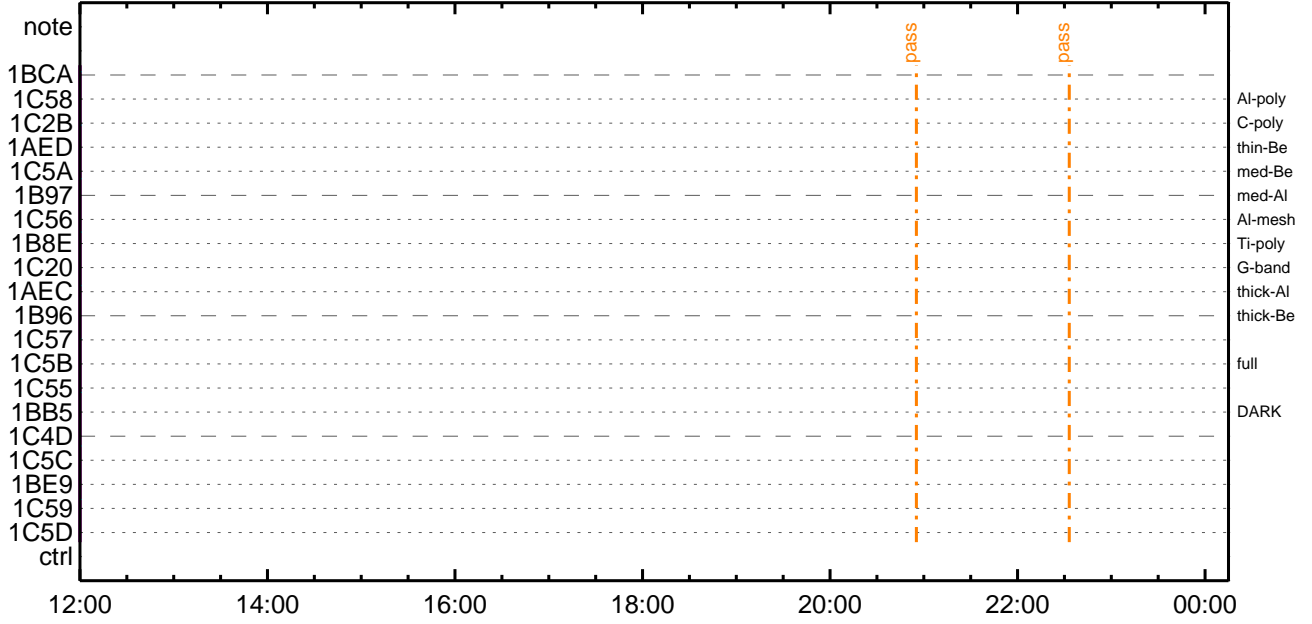
CMDI #0427 2019/08/23



CMDI #0427 2019/08/24



CMDI #0427 2019/08/24







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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOYx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-425:OP
0104 ( )
0105 S. OG og-425:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPîî°èYAYOYx;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. YAYOYx½ªî»ò³îÇ§
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. YAYOYx½ªî»ò³îÇ§
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. YAYOYx½ªî»ò³îÇ§
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;4YE;E½Y½;Yi;4YE;Eòîã¹
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÷ç@NG²î¼E¹ç•è²¼²îTI-CMDÁ÷ç²î¼E¹Ô²•²E²³²E;f
0180 C. ²²²ç;çSET²E²DUMP²î¼E¹ç•è²¼²î¼E¹Ô²³²E;f
0181 C.
0182 C. TIY³Y²Y²E²²²î¼E¹ç•è²¼²î¼E¹Ô²³²E;f (UT)
0183 +. TI 2019-08-20 10:37:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2019-08-20 10:37:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2019-08-20 10:37:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

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0194 C.
0195 +. TI 2019-08-20 10:41:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.      çç[HK1_TI_CMD_NUM]                      EQ      1COUNTUP
0198 C.
0199 C. °Ê²¼ºîÄë%îíÑºîî¥Ä¥§¥Ä¥-¹àîÜ
0200 C.      çç[HK1_TI_CMD_ENA/DIS]                     EQ      ENA
0201 C.      çç[HK1_TI_CMD_NUM]                         EQ      4
0202 C.      çç[HK1_NEXT_EXEC_PIM]                      EQ      DHU
0203 C.      çç[HK1_NEXT_EXEC_DC]                       EQ      0xB3
0204 C.
0205 C. *****
0206 C. TIîî°è¥Ä¥Ø¥×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;§ 1024byte)
0210 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211 BC      (03 ab 03 01 02)
0212 C.      çç[HK1_DMP_TOP_ADRS_1]                     EQ      07
0213 C.      çç[HK1_DMP_TOP_ADRS_0]                     EQ      2B
0214 C.      çç[HK1_DMP_BLOCK_NUM]                      EQ      3
0215 C.      çç[HK1_DMP_REPEAT_NUM]                    EQ      0
0216 C.      çç[HK1_DMA_DMP_PIM]                        EQ      DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC      (07 0b f8)
0219 C.      çç[HK1_PKT_FORM_NO]                        EQ      7
0220 C.      çç[HK1_PKT_GEN_TIME]                       EQ      0.25 s
0221 C.      çç[HK1_S_TLM_BIT_RATE]                     EQ      32k
0222 C.      çç[HK1_X_TLM_BIT_RATE]                     EQ      4M
0223 C.      çç[HK1_DMP_CHK_FLG]                       EQ      EXEC
0224 C.
0225 C. ¥Ä¥Ø¥×½ªî»º³îÇ§
0226 C.      çç[HK1_DMP_CHK_FLG]                       EQ      NON
0227 C.
0228 C. RAM ID=TI_TBLîîÊ¹ç•è²îOKº³îÇ§
0229 C.
0230 C. DHU¥ä;¼¥Ê;Ê¼¥½. ¥î;¼¥Ê;Êºîäº¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC      (02 0a f8)
0233 C.      çç[HK1_PKT_FORM_NO]                        EQ      2
0234 C.      çç[HK1_PKT_GEN_TIME]                       EQ      0.5S
0235 C.      çç[HK1_S_TLM_BIT_RATE]                     EQ      32K
0236 C.      çç[HK1_X_TLM_BIT_RATE]                     EQ      4M
0237 C.
0238 C. Stop EIS observation and temporarily disable EIS mode changes
0239 C.
0240 C.
0241 C. ***** Start EIS operation (TI set) *****
0242 C. Execute, after the success of OP upload.
0243 C. Set EIS TI-commands
0244 +. TI 2019-08-20 10:41:30.0
0245 DC 07-FC EIS_MODE_MANU
0246 BC      (21 02)
0247 +. TI 2019-08-20 10:41:40.0
0248 DC 07-FC EIS_MODE_CHG_DIS
0249 BC      (22)
0250 C.      [ ] [HK1_TI_CMD_NUM]                       EQ      2 COUNTUP
0251 C. ***** End EIS operation (TI set) *****
0252 C.
0253 C.
0254 C.
0255 C. ***** XRT START *****
0256 C. Execute, after the success of OP upload.
0257 +. TI 2019-08-20 10:41:00.0
0258 DC 07-F0 MDP_XRT_MODE_STBY
0259 BC      (c3)
0260 C.      [ ] [HK1_TI_CMD_NUM]                       EQ      1COUNTUP
0261 C.
0262 C. ***** XRT END *****
0263 C.
0264 C. ***** MDP `îÄîî»ò¼¥ºîÄº¹ºèDCBC•×²è *****
0265 C. (¼ªºî¥Ø¥Ä¥Ê¥½¥Ê¥ä¥ç¥èº³¼º¼ª»Üº¹ºè)
0266 S. DC-BC dcbc-402:DCBC
0267 (MDP_known_event)
0268 C.
0269 C.
0270 C. ***** ¥Ð¥¹•î Daily±;îÑºîîº³èDCBC•×²è *****
0271 S. DC-BC dcbc-153:DCBC
0272 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0273 C.
0274 C.
0275 C. îäLOS¥Ä¥§¥Ä¥-¼ª»Ü;ä
0276 C.
0277 C. ***** LOS *****
0278 C.
```





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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 85 83 08 08)
0130 + DC 07-F0 MDP_XRT_ROI_SET
0131 BC (cd 08 85 83 0c 0c)
0132 + DC 07-F0 MDP_XRT_ROI_SET
0133 BC (cd 09 80 80 20 20)
0134 + DC 07-F0 MDP_XRT_ROI_SET
0135 BC (cd 0a 80 80 20 08)
0136 + DC 07-F0 MDP_XRT_ROI_SET
0137 BC (cd 0b 80 80 08 20)
0138 + DC 07-F0 MDP_XRT_ROI_SET
0139 BC (cd 0c 80 80 08 08)
0140 + DC 07-F0 MDP_XRT_ROI_SET
0141 BC (cd 0f 80 80 06 06)
0142 + DC 07-F0 MDP_XRT_ROI_SET
0143 BC (cd 10 80 80 08 08)
0144 + DC 07-F0 MDP_XRT_FLD_DIS
0145 BC (d9)
0146 + DC 07-F0 MDP_XRT_FLRCTRL_DIS
0147 BC (c9)
0148 + DC 07-F0 MDP_XRT_ARS_DIS
0149 BC (d5)
0150 + DC 07-F0 MDP_XRT_AEC_RESET
0151 BC (d0)
0152 + DC 07-F0 MDP_XRT_FLD_RESET
0153 BC (da)
0154 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0155 BC (c4 12)
0156 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0157 BC (c5 0d)
0158 . C. ----- Success Verify ? OK / NG ____
0159 C.
0160 C.
0161 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0162 C.
0163 +. DC 07-F0 MDP_XRT_MODE_OBSV
0164 BC (c2)
0165 +. TI 2019-08-20 10:41:02.0
0166 DC 07-F0 MDP_XRT_MODE_OBSV
0167 BC (c2)
0168 . C. ----- Success Verify ? OK / NG ____
0169 C.
0170 C. ***** XRT END *****
0171 C.
0172 . C. ***** MDP `ûÃîñî»ò¼ÿñÈÃð¹ñèDCBC•x²è *****
0173 C. (¼á°îÿÓÿÃÿÈÿÞÿÿÿÈÿáÿçÿèñÈ¼¼¼¼¼¼»Ûñ¹ñè)
0174 . S. DC-BC dcbc-402:DCBC
0175 (MDP_known_event)
0176 C.
0177 C.
0178 . C. ***** ÿÐÿ¹•Ï Daily±;îñèÿ`Øñ¹ñèDCBC•x²è *****
0179 . S. DC-BC dcbc-153:DCBC
0180 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0181 C.
0182 C.
0183 . C. ;ãLOSÿÁÿÿÿÿÿ¼¼»Û;ã
0184 C.
0185 . C. ***** LOS *****
0186 C.

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

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2019/08/20 10:51:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 10:51:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 10:51:58.0 XRT_FOCUS_RECALIBRATE_414_OG [0x19e]
                        XRT_FOCUS_RECAL 2 07-F8 78 00
2019/08/20 10:52:00.0 AOCs_OrE-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 00 f5 59 50 b4
2019/08/20 10:55:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2019/08/20 10:56:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2019/08/20 10:56:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2019/08/20 10:56:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2019/08/20 10:56:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2019/08/20 10:56:26.0 XRT_FLD_RESET_434_OG [0x1b2]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2019/08/20 10:58:56.0 XRT_QT_PROG_SET_420_OG [0x1a4]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 04
2019/08/20 10:58:58.0 XRT_FL_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0d
2019/08/20 11:12:30.0 XRT_Custom_430_OG [0x1ae]
2019/08/20 11:13:30.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2019/08/20 12:33:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 12:33:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 12:33:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2019/08/20 12:33:06.0 XRT_PREFLR_STRT_435_OG [0x1b3]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2019/08/20 12:36:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2019/08/20 12:51:00.0 XRT_Custom_430_OG [0x1ae]
2019/08/20 12:52:00.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2019/08/20 14:11:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 14:11:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 14:11:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2019/08/20 14:11:06.0 XRT_PREFLR_STRT_435_OG [0x1b3]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2019/08/20 14:14:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2019/08/20 14:29:00.0 XRT_Custom_430_OG [0x1ae]
2019/08/20 14:30:00.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2019/08/20 15:49:30.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 15:49:32.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 15:49:34.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2019/08/20 15:49:36.0 XRT_PREFLR_STRT_435_OG [0x1b3]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2019/08/20 15:52:44.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2019/08/20 16:25:30.0 XRT_Custom_430_OG [0x1ae]
2019/08/20 16:26:30.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2019/08/20 17:28:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 17:28:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 17:28:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2019/08/20 17:28:06.0 XRT_PREFLR_STRT_435_OG [0x1b3]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2019/08/20 17:31:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2019/08/20 18:02:24.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 18:02:26.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2019/08/20 18:02:28.0 XRT_FOCUS_POSITION_406_OG [0x196]
                        XRT_FOCUS_POSITION 4 07-F8 22 ff aa 00
2019/08/20 18:02:30.0 AOCs_OrE-point_Start_2_OG [0x098]
                        AOCU_NM 5 02-76 00 00 00 00 00
2019/08/20 18:02:48.0 XRT_FLD_DIS_409_OG [0x199]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2019/08/20 18:02:50.0 XRT_FLRCTRL_DIS_413_OG [0x19d]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2019/08/20 18:02:52.0 XRT_ARS_DIS_443_OG [0x1bb]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2019/08/20 18:05:28.0 XRT_QT_PROG_SET_426_OG [0x1aa]

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|            |            |                                   |                     |   |       |    |             |
|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2019/08/20 | 18:05:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0e          |
|            |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2019/08/20 | 18:12:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 18:12:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 18:12:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2019/08/20 | 18:12:30.0 | AOCS_OrE-point_Start_1_OG [0x097] | AOCU_NM             | 5 | 02-76 | 00 | f5 59 50 b4 |
| 2019/08/20 | 18:12:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2019/08/20 | 18:12:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2019/08/20 | 18:12:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2019/08/20 | 18:12:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2019/08/20 | 18:12:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2019/08/20 | 18:15:26.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04          |
| 2019/08/20 | 18:15:28.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d          |
| 2019/08/20 | 18:15:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2019/08/20 | 19:06:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 19:06:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 19:06:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2019/08/20 | 19:06:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2019/08/20 | 19:09:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2019/08/20 | 19:39:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2019/08/20 | 19:40:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2019/08/20 | 20:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 20:44:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 20:44:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2019/08/20 | 20:44:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2019/08/20 | 20:47:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2019/08/20 | 21:16:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2019/08/20 | 21:17:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2019/08/20 | 22:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 22:23:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/20 | 22:23:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2019/08/20 | 22:23:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2019/08/20 | 22:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2019/08/20 | 22:52:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2019/08/20 | 22:53:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2019/08/21 | 00:01:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/21 | 00:01:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/21 | 00:01:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2019/08/21 | 00:01:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2019/08/21 | 00:04:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2019/08/21 | 00:20:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |             |
| 2019/08/21 | 00:21:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2019/08/21 | 01:35:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/21 | 01:35:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/21 | 01:35:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2019/08/21 | 01:35:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2019/08/21 | 01:38:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2019/08/21 | 01:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2019/08/21 | 01:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |

|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2019/08/21 | 01:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2019/08/21 | 02:00:00.0 | AOCs_OrE-point_Start_2_OG [0x098]<br>AOCU_NM            | 5 | 02-76 | 00 00 00 00 00 |
| 2019/08/21 | 02:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2019/08/21 | 02:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2019/08/21 | 02:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2019/08/21 | 02:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2019/08/21 | 02:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2019/08/21 | 02:02:56.0 | XRT_QT_PROG_SET_405_OG [0x195]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 05          |
| 2019/08/21 | 02:02:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 0d          |
| 2019/08/21 | 02:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2019/08/21 | 03:06:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 03:06:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 03:06:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2019/08/21 | 03:06:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2019/08/21 | 03:09:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2019/08/21 | 03:35:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2019/08/21 | 03:36:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2019/08/21 | 04:24:24.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 04:24:26.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 04:24:28.0 | XRT_FOCUS_POSITION_406_OG [0x196]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2019/08/21 | 04:24:48.0 | XRT_FLD_DIS_409_OG [0x199]<br>MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2019/08/21 | 04:24:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]<br>MDP_XRT_FLRCTRL_DIS   | 1 | 07-F0 | c9             |
| 2019/08/21 | 04:24:52.0 | XRT_ARS_DIS_443_OG [0x1bb]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2019/08/21 | 04:27:28.0 | XRT_QT_PROG_SET_446_OG [0x1be]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 07          |
| 2019/08/21 | 04:27:30.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2019/08/21 | 04:34:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 04:34:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 04:34:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2019/08/21 | 04:34:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2019/08/21 | 04:37:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2019/08/21 | 05:11:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 05:11:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 05:11:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2019/08/21 | 05:12:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2019/08/21 | 05:12:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2019/08/21 | 05:12:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2019/08/21 | 05:12:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2019/08/21 | 05:12:26.0 | XRT_FLD_RESET_434_OG [0x1b2]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2019/08/21 | 05:14:56.0 | XRT_QT_PROG_SET_405_OG [0x195]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 05          |
| 2019/08/21 | 05:14:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 0d          |
| 2019/08/21 | 05:15:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2019/08/21 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2019/08/21 | 05:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2019/08/21 | 06:00:00.0 | AOCs_OrE-point_Start_3_OG [0x099]<br>AOCU_NM            | 5 | 02-76 | 03 00 00 00 00 |
| 2019/08/21 | 06:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2019/08/21 | 06:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |



|            |            |                                   |                     |   |       |                |          |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|----------|--|--|
| 2019/08/21 | 06:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |          |  |  |
| 2019/08/21 | 06:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |          |  |  |
| 2019/08/21 | 06:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |          |  |  |
| 2019/08/21 | 06:02:56.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4             | 04       |  |  |
| 2019/08/21 | 06:02:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5             | 0d       |  |  |
| 2019/08/21 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |          |  |  |
| 2019/08/21 | 06:15:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 06:15:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 06:15:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |          |  |  |
| 2019/08/21 | 06:15:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |          |  |  |
| 2019/08/21 | 06:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |          |  |  |
| 2019/08/21 | 06:52:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |          |  |  |
| 2019/08/21 | 06:53:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |          |  |  |
| 2019/08/21 | 07:54:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 07:54:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 07:54:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22             | fe 97 00 |  |  |
| 2019/08/21 | 07:55:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |          |  |  |
| 2019/08/21 | 07:55:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |          |  |  |
| 2019/08/21 | 07:55:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |          |  |  |
| 2019/08/21 | 07:55:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |          |  |  |
| 2019/08/21 | 07:55:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |          |  |  |
| 2019/08/21 | 07:56:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | AOCU_NM             | 5 | 02-76 | 02 03 02 01    | ca       |  |  |
| 2019/08/21 | 07:57:56.0 | XRT_QT_PROG_SET_407_OG [0x197]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4             | 0c       |  |  |
| 2019/08/21 | 07:57:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5             | 0d       |  |  |
| 2019/08/21 | 08:30:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |          |  |  |
| 2019/08/21 | 08:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |          |  |  |
| 2019/08/21 | 09:34:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 09:34:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 09:34:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |          |  |  |
| 2019/08/21 | 09:34:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |          |  |  |
| 2019/08/21 | 09:37:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |          |  |  |
| 2019/08/21 | 09:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 09:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 09:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22             | ff aa 00 |  |  |
| 2019/08/21 | 10:00:00.0 | AOCS_Ore-point_Start_5_OG [0x09b] | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |          |  |  |
| 2019/08/21 | 10:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |          |  |  |
| 2019/08/21 | 10:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |          |  |  |
| 2019/08/21 | 10:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |          |  |  |
| 2019/08/21 | 10:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |          |  |  |
| 2019/08/21 | 10:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |          |  |  |
| 2019/08/21 | 10:02:56.0 | XRT_QT_PROG_SET_431_OG [0x1af]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4             | 01       |  |  |
| 2019/08/21 | 10:02:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5             | 0d       |  |  |
| 2019/08/21 | 10:09:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |          |  |  |
| 2019/08/21 | 10:10:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |          |  |  |
| 2019/08/21 | 11:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 11:17:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |          |  |  |
| 2019/08/21 | 11:17:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |          |  |  |
| 2019/08/21 | 11:17:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |          |  |  |

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2019/08/21 | 11:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/21 | 11:47:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 11:48:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 13:08:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 13:08:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 13:08:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/21 | 13:08:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/21 | 13:11:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/21 | 13:25:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 13:26:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 14:47:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 14:47:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 14:47:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/21 | 14:47:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/21 | 14:50:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/21 | 15:12:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 15:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 16:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 16:25:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 16:25:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/21 | 16:25:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/21 | 16:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/21 | 17:00:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 17:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 17:49:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 17:49:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 17:49:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2019/08/21 | 17:49:30.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2019/08/21 | 17:49:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2019/08/21 | 17:49:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2019/08/21 | 17:49:52.0 | XRT_ARS_DIS_443_OG [0x1bb]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2019/08/21 | 17:52:28.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 07          |  |  |  |  |
| 2019/08/21 | 17:52:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 17:59:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 17:59:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 17:59:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2019/08/21 | 17:59:30.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2019/08/21 | 17:59:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2019/08/21 | 17:59:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2019/08/21 | 17:59:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2019/08/21 | 17:59:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2019/08/21 | 17:59:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/21 | 18:02:26.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2019/08/21 | 18:02:28.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0d          |  |  |  |  |
| 2019/08/21 | 18:37:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 18:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 19:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 19:42:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 19:42:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2019/08/21 | 19:42:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/21 | 19:45:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/21 | 20:13:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 20:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 21:20:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 21:20:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 21:20:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/21 | 21:20:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/21 | 21:23:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/21 | 21:51:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 21:52:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/21 | 22:59:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 22:59:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/21 | 22:59:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/21 | 22:59:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/21 | 23:02:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/21 | 23:26:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/21 | 23:27:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/22 | 00:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 00:37:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 00:37:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/22 | 00:37:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/22 | 00:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/22 | 00:54:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/22 | 00:55:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/22 | 01:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 01:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 01:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2019/08/22 | 02:00:00.0 | AOCS_OrE-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2019/08/22 | 02:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2019/08/22 | 02:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2019/08/22 | 02:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2019/08/22 | 02:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2019/08/22 | 02:00:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/22 | 02:02:56.0 | XRT_QT_PROG_SET_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 05          |  |  |  |  |
| 2019/08/22 | 02:02:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0d          |  |  |  |  |
| 2019/08/22 | 02:32:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2019/08/22 | 02:33:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2019/08/22 | 03:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 03:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 03:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2019/08/22 | 03:41:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2019/08/22 | 03:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2019/08/22 | 04:08:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 04:08:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2019/08/22 | 04:08:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2019/08/22 | 04:08:48.0 | XRT_FLD_DIS_409_OG [0x199]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2019/08/22 | 04:08:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2019/08/22 | 04:08:52.0 | XRT_ARS_DIS_443_OG [0x1bb]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |

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|            |            |                                   |   |       |    |             |  |
|------------|------------|-----------------------------------|---|-------|----|-------------|--|
| 2019/08/22 | 04:11:28.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |    |             |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 07          |  |
| 2019/08/22 | 04:11:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |             |  |
| 2019/08/22 | 04:18:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 04:18:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 04:18:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] |   |       |    |             |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff aa 00    |  |
| 2019/08/22 | 04:18:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |             |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |             |  |
| 2019/08/22 | 04:18:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |             |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |             |  |
| 2019/08/22 | 04:18:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |             |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |             |  |
| 2019/08/22 | 04:18:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |             |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |             |  |
| 2019/08/22 | 04:18:56.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |    |             |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |             |  |
| 2019/08/22 | 04:21:26.0 | XRT_QT_PROG_SET_405_OG [0x195]    |   |       |    |             |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 05          |  |
| 2019/08/22 | 04:21:28.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |       |    |             |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0d          |  |
| 2019/08/22 | 04:21:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |             |  |
| 2019/08/22 | 05:10:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 05:10:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 05:10:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |             |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |             |  |
| 2019/08/22 | 05:10:36.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |    |             |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |             |  |
| 2019/08/22 | 05:13:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |             |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |             |  |
| 2019/08/22 | 05:49:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |             |  |
| 2019/08/22 | 05:50:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |             |  |
| 2019/08/22 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 06:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |    |             |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe 97 00    |  |
| 2019/08/22 | 06:10:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |    |             |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 | 00 00 00 00 |  |
| 2019/08/22 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |             |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |             |  |
| 2019/08/22 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |             |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |             |  |
| 2019/08/22 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |             |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |             |  |
| 2019/08/22 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |             |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |             |  |
| 2019/08/22 | 06:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |    |             |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |             |  |
| 2019/08/22 | 06:12:56.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    |   |       |    |             |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 04          |  |
| 2019/08/22 | 06:12:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    |   |       |    |             |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 0d          |  |
| 2019/08/22 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |             |  |
| 2019/08/22 | 06:51:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 06:51:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 06:51:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |             |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |             |  |
| 2019/08/22 | 06:51:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    |   |       |    |             |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |             |  |
| 2019/08/22 | 06:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |             |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |             |  |
| 2019/08/22 | 07:27:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |             |  |
| 2019/08/22 | 07:28:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |             |  |
| 2019/08/22 | 07:55:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 07:55:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |             |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |             |  |
| 2019/08/22 | 07:55:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |    |             |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe 97 00    |  |
| 2019/08/22 | 07:56:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |    |             |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 | 03 02 01 ca |  |
| 2019/08/22 | 07:56:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |             |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |             |  |
| 2019/08/22 | 07:56:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |             |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |             |  |
| 2019/08/22 | 07:56:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |             |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |             |  |
| 2019/08/22 | 07:56:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |             |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |             |  |
| 2019/08/22 | 07:56:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |    |             |  |

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|            |            |                                   |                           |   |       |                |
|------------|------------|-----------------------------------|---------------------------|---|-------|----------------|
| 2019/08/22 | 07:58:56.0 | XRT_QT_PROG_SET_407_OG [0x197]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2019/08/22 | 07:58:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 0c          |
| 2019/08/22 | 07:59:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 0d          |
| 2019/08/22 | 08:31:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2019/08/22 | 08:31:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2019/08/22 | 08:31:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2019/08/22 | 08:31:06.0 | XRT_PREFLR_STRT_435_OG [0x1b3]    | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2019/08/22 | 08:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2019/08/22 | 09:05:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2019/08/22 | 09:06:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2019/08/22 | 09:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2019/08/22 | 09:45:02.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2019/08/22 | 10:13:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
|            |            | AOCU_NM                           |                           | 5 | 02-76 | 00 00 00 00 00 |