

# XRT Timeline to be uploaded on 2015/11/07

Period: 2015/11/07 09:25:00 - 2015/11/12 10:44:00

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## Normal mode

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| XOB #1AAC: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 60s cadence, G-band - 384x384 3ms |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
|--|-----------------------|----------------|-------|------|-------|-------|----------------------------------|-----|----------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)       |                |       |      |       |       | Comment                          |     |                      |       |            |          |        |
| 11/07 09:38:00 - 11/07 15:34:54  | Fixed ( -16.0, 874.0) |                |       |      |       |       | # OP start + 10min, HOP81 N-pole |     |                      |       |            |          |        |
| <b>PROG= 04 Inf.-time(s)</b>   |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
| └─ Subr= 1 1-time(s) 2.0sec  |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
| └─ Seqn= 9 2-time(s) 2.0sec  |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
|  | Open/G-band           | Open/G-band    | close | Safe | Norm  | 3ms   | Obs                              | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec  |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
| └─ Seqn= 7 1-time(s) 30.0sec   |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
|  | Open/G-band           | Open/G-band    | open  | Safe | Norm  | 3ms   | Obs                              | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
| └─ Subr= 3 30-time(s) 2.0sec   |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
| └─ Seqn= 57 1-time(s) 60.0sec  |                       |                |       |      |       |       |                                  |     |                      |       |            |          |        |
|  | Open/Al-mesh          | Open/Al-mesh   | close | Safe | Norm  | 4.00s | Obs                              | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
|  | Al-poly/Open          | Al-poly/Open   | close | Safe | Norm  | 5.66s | Obs                              | 1x1 | 384x384 (1064, 1048) | Q=90  | 0          | 0        | 2.0sec |
|  | Default Filter        | Thicker Filter | VLS   | mode | image | Exp.  | CCD                              | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| XOB #1AC9: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with |  |  |  |  |  |  |                       |  |  |  |  |  |
|---|--|--|--|--|--|--|-----------------------|--|--|--|--|--|
| Term  | Pointing (x, y)                        |  |  |  |  |  | Comment               |  |  |  |  |  |
| 11/07 15:38:00 - 11/07 17:37:30   | Track ( 652.2, 106.6) @ 11/07 15:35:00 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/07 18:14:30 - 11/08 05:47:24   | Track ( 669.6, 107.8) @ 11/07 18:11:30 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/08 06:00:30 - 11/08 06:59:54   | Track ( 743.0, 113.6) @ 11/08 05:57:30 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/08 13:03:00 - 11/08 17:49:54   | Track ( 782.3, 117.2) @ 11/08 13:00:00 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/08 18:03:00 - 11/08 21:59:54   | Track ( 808.0, 119.8) @ 11/08 18:00:00 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/08 22:03:00 - 11/09 00:29:54   | Fixed ( -952.4, -172.1)                |  |  |  |  |  | EIS Temp. diagnostics |  |  |  |  |  |
| 11/09 00:33:00 - 11/09 05:59:54   | Track ( 838.6, 123.3) @ 11/09 00:30:00 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/09 06:13:00 - 11/09 06:52:00   | Track ( 862.6, 126.4) @ 11/09 06:10:00 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/09 10:03:00 - 11/09 18:06:24   | Track ( 877.3, 128.5) @ 11/09 10:00:00 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/09 18:19:30 - 11/09 20:59:54   | Track ( 905.0, 133.1) @ 11/09 18:16:30 |  |  |  |  |  | AR12443               |  |  |  |  |  |
| 11/09 21:03:00 - 11/10 06:23:54   | Fixed ( 920.8, 134.6)                  |  |  |  |  |  | AR12443 on W-limb     |  |  |  |  |  |
| 11/10 06:38:32 - 11/10 10:14:54   | Fixed ( 920.8, 134.6)                  |  |  |  |  |  | AR12443 on W-limb     |  |  |  |  |  |

| PROG= 11 Inf.-time(s)          |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|--------------------------------|----------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| └─ Subr= 1 1-time(s) 2.0sec    |                |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 56 1-time(s) 2.0sec   |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|                                | Open/G-band    | Open/G-band    | open  | Safe | Norm  | 3ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                                | Open/G-band    | Open/G-band    | close | Safe | Norm  | 3ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                                | Open/Ti-poly   | Open/thick-Al  | close | Safe | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| └─ Subr= 2 5-time(s) 2.0sec    |                |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 75 1-time(s) 2.0sec   |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|                                | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                                | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|                                | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 2          | 0        | 2.0sec |
|                                | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ Seqn= 23 4-time(s) 180.0sec |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|                                | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
|                                | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec |
|                                | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
|                                | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 1        | 2.0sec |
|                                | Al-poly/Open   | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
|                                | thin-Be/Open   | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 2        | 2.0sec |
|                                | Default Filter | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| XOB #1ADE: Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(16/362/1443) + TH |                   |  |  |  |  |  |                             |  |  |  |  |  |
|---|-------------------|--|--|--|--|--|-----------------------------|--|--|--|--|--|
| Term  | Pointing (x, y)   |  |  |  |  |  | Comment                     |  |  |  |  |  |
| 11/07 18:04:30 - 11/07 18:11:24   | Fixed ( 0.0, 0.0) |  |  |  |  |  | synoptic, shifted 1.5 min   |  |  |  |  |  |
| 11/08 05:50:30 - 11/08 05:57:24   | Fixed ( 0.0, 0.0) |  |  |  |  |  | synoptic, shifted -12.5 min |  |  |  |  |  |
| 11/08 17:53:00 - 11/08 17:59:54   | Fixed ( 0.0, 0.0) |  |  |  |  |  | synoptic, shifted -10.0 min |  |  |  |  |  |
| 11/09 06:03:00 - 11/09 06:09:54   | Fixed ( 0.0, 0.0) |  |  |  |  |  | synoptic                    |  |  |  |  |  |
| 11/09 18:09:30 - 11/09 18:16:24   | Fixed ( 0.0, 0.0) |  |  |  |  |  | synoptic, shifted 6.5 min   |  |  |  |  |  |

| PROG= 05 1-time(s)           |              |               |       |      |      |       |     |     |                        |      |   |   |        |
|------------------------------|--------------|---------------|-------|------|------|-------|-----|-----|------------------------|------|---|---|--------|
| └─ Subr= 1 1-time(s) 2.0sec  |              |               |       |      |      |       |     |     |                        |      |   |   |        |
| └─ Seqn= 5 1-time(s) 2.0sec  |              |               |       |      |      |       |     |     |                        |      |   |   |        |
|                              | Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
|                              | Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
|                              | Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
|                              | Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 1x1 | 2048x512 (1024, 1024)  | DPCM | 0 | 0 | 2.0sec |
|                              | Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 1x1 | 512x2048 (1024, 1024)  | DPCM | 0 | 0 | 2.0sec |
| └─ Seqn= 33 1-time(s) 2.0sec |              |               |       |      |      |       |     |     |                        |      |   |   |        |
|                              | Open/Al-mesh | Open/Al-mesh  | close | Safe | Norm | 8ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
|                              | Open/Al-mesh | Open/Al-mesh  | close | Safe | Norm | 125ms | 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 |
| └─ Seqn= 49 1-time(s) 2.0sec |              |               |       |      |      |       |     |     |                        |      |   |   |        |
|                              | Al-poly/Open | Al-poly/Open  | close | Safe | Norm | 16ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

|                 |                  |                  |               |       |       |     |     |                        |       |            |          |        |
|-----------------|------------------|------------------|---------------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Al-poly/Open    | Al-poly/Open     | close            | Safe          | Norm  | 354ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Al-poly/Open    | Al-poly/thick-Al | close            | Safe          | Norm  | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 39</b> |                  | <b>1-time(s)</b> | <b>2.0sec</b> |       |       |     |     |                        |       |            |          |        |
| thin-Be/Open    | thin-Be/Open     | close            | Safe          | Norm  | 63ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open    | thin-Be/Open     | close            | Safe          | Norm  | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open    | thin-Be/Open     | close            | Safe          | Norm  | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 54</b> |                  | <b>1-time(s)</b> | <b>2.0sec</b> |       |       |     |     |                        |       |            |          |        |
| Open/G-band     | Open/G-band      | open             | Safe          | Norm  | 3ms   | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band     | Open/G-band      | close            | Safe          | Norm  | 3ms   | 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 #1AF7: Coronal Cavity (2 filters) - 2x2 - 768FOV - 60s cad - AEC0**

| Term                            | Pointing (x, y)        | Comment  |
|---------------------------------|------------------------|--|
| 11/08 07:03:00 - 11/08 09:59:54 | Fixed ( 750.0, -590.0) | IHOP0237   |
| 11/09 07:17:00 - 11/09 09:59:54 | Fixed ( 765.0, -570.0) | IHOP0237   |
| <b>PROG= 08 Inf.-time(s)</b>    |                        |  |
| <b>Subr= 1</b>                  |                        | <b>1-time(s)</b> <b>2.0sec</b>   |
| <b>Seqn= 82</b>                 |                        | <b>1-time(s)</b> <b>60.0sec</b>  |
| Al-poly/Open                    | Al-poly/Open           | close Safe Norm 1.00s Obs 2x2 768x768 (1064, 1048) Q=95 0 0 2.0sec       |
| thin-Be/Open                    | thin-Be/Open           | close Safe Norm 4.00s Obs 2x2 768x768 (1064, 1048) Q=95 0 0 2.0sec       |
| Default Filter                  | Thicker Filter         | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

**XOB #1ADF: Synoptic 7 Filter w/ Al-mesh(8/128/1024), Al-poly(16/362/1443), Thin-Be(88/1024/5795) - Thick-Be(65536), Al-poly+Ti-poly(256/2048), Med-Al(40**

| Term                            | Pointing (x, y)   | Comment  |
|---------------------------------|-------------------|--|
| 11/10 06:27:00 - 11/10 06:33:54 | Fixed ( 0.0, 0.0) | synoptic, shifted 24.0 min   |
| <b>PROG= 02 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= 33</b>                 |                   | <b>1-time(s)</b> <b>2.0sec</b>   |
| Open/Al-mesh                    | Open/Al-mesh      | close Safe Norm 8ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |
| Open/Al-mesh                    | Open/Al-mesh      | close Safe Norm 125ms 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     |
| <b>Seqn= 49</b>                 |                   | <b>1-time(s)</b> <b>2.0sec</b>   |
| Al-poly/Open                    | Al-poly/Open      | close Safe Norm 16ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec      |
| Al-poly/Open                    | Al-poly/Open      | close Safe Norm 354ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec     |
| Al-poly/Open                    | Al-poly/thick-Al  | close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec     |
| <b>Seqn= 77</b>                 |                   | <b>1-time(s)</b> <b>2.0sec</b>   |
| thin-Be/Open                    | thin-Be/Open      | close Safe Norm 86ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec      |
| thin-Be/Open                    | thin-Be/Open      | close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec     |
| thin-Be/Open                    | thin-Be/Open      | close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec     |
| <b>Seqn= 54</b>                 |                   | <b>1-time(s)</b> <b>4.0sec</b>   |
| Open/G-band                     | Open/G-band       | open Safe Norm 3ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec        |
| Open/G-band                     | Open/G-band       | close Safe Norm 3ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec       |
| <b>Subr= 2</b>                  |                   | <b>1-time(s)</b> <b>2.0sec</b>   |
| <b>Seqn= 46</b>                 |                   | <b>2-time(s)</b> <b>2.0sec</b>   |
| Open/thick-Be                   | Open/thick-Be     | close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec     |
| <b>Seqn= 72</b>                 |                   | <b>2-time(s)</b> <b>2.0sec</b>   |
| Al-poly/Ti-poly                 | Al-poly/thick-Al  | close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec     |
| Al-poly/Ti-poly                 | Al-poly/thick-Al  | close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec     |
| <b>Seqn= 59</b>                 |                   | <b>2-time(s)</b> <b>2.0sec</b>   |
| med-Al/Open                     | med-Al/thick-Al   | close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec     |
| med-Al/Open                     | med-Al/Open       | 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 |

\* \* \* \* \*

**Flare mode**

\* \* \* \* \*

**XOB #1A9B: 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 512**

| Term                            | Pointing (x, y)       | Comment  |
|---------------------------------|-----------------------|--|
| 11/07 09:38:00 - 11/07 15:34:54 | Fixed ( -16.0, 874.0) | # OP start + 10min, HOP081 N-pole                                  |
| <b>PROG= 03 30-time(s)</b>      |                       |  |
| <b>Subr= 1</b>                  |                       | <b>20-time(s)</b> <b>2.0sec</b>                                    |
| <b>Seqn= 11</b>                 |                       | <b>1-time(s)</b> <b>2.0sec</b>                                     |
| Al-poly/Open                    | Al-poly/thick-Al      | close Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 0 2.0sec |
| <b>Seqn=100</b>                 |                       | <b>1-time(s)</b> <b>10.0sec</b>                                    |
| 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 |
| <b>Subr= 2</b>                  |                       | <b>1-time(s)</b> <b>2.0sec</b>                                     |
| <b>Seqn= 10</b>                 |                       | <b>1-time(s)</b> <b>2.0sec</b>                                     |
| med-Al/Open                     | med-Al/thick-Al       | close Safe Norm 500ms Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec |
| Open/thick-Be                   | Open/thick-Be         | close Safe Norm 2.00s Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec |
| <b>Seqn= 11</b>                 |                       | <b>1-time(s)</b> <b>2.0sec</b>                                     |

|                                  |                  |       |      |       |       |     |     |                      |       |            |          |        |
|----------------------------------|------------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Al-poly/Open                     | Al-poly/thick-Al | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| <b>Seqn= 53 1-time(s) 2.0sec</b> |                  |       |      |       |       |     |     |                      |       |            |          |        |
| Open/G-band                      | Open/G-band      | open  | Safe | Norm  | 3ms   | 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 |        |

**XOB #1AE7: 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 512**

| Term                            | Pointing (x, y)                                   | Comment               |
|---------------------------------|---|-----------------------|
| 11/07 15:38:00 - 11/07 17:37:30 | Track ( 652.2, 106.6) <sup>Ⓜ 11/07 15:35:00</sup> | AR12443               |
| 11/07 18:14:30 - 11/08 05:47:24 | Track ( 669.6, 107.8) <sup>Ⓜ 11/07 18:11:30</sup> | AR12443               |
| 11/08 06:00:30 - 11/08 06:59:54 | Track ( 743.0, 113.6) <sup>Ⓜ 11/08 05:57:30</sup> | AR12443               |
| 11/08 07:03:00 - 11/08 09:59:54 | Fixed ( 750.0, -590.0)                            | IHOP0237              |
| 11/08 13:03:00 - 11/08 17:49:54 | Track ( 782.3, 117.2) <sup>Ⓜ 11/08 13:00:00</sup> | AR12443               |
| 11/08 18:03:00 - 11/08 21:59:54 | Track ( 808.0, 119.8) <sup>Ⓜ 11/08 18:00:00</sup> | AR12443               |
| 11/08 22:03:00 - 11/09 00:29:54 | Fixed ( -952.4, -172.1)                           | EIS Temp. diagnostics |
| 11/09 00:33:00 - 11/09 05:59:54 | Track ( 838.6, 123.3) <sup>Ⓜ 11/09 00:30:00</sup> | AR12443               |
| 11/09 06:13:00 - 11/09 06:52:00 | Track ( 862.6, 126.4) <sup>Ⓜ 11/09 06:10:00</sup> | AR12443               |
| 11/09 07:17:00 - 11/09 09:59:54 | Fixed ( 765.0, -570.0)                            | IHOP0237              |
| 11/09 10:03:00 - 11/09 18:06:24 | Track ( 877.3, 128.5) <sup>Ⓜ 11/09 10:00:00</sup> | AR12443               |
| 11/09 18:19:30 - 11/09 20:59:54 | Track ( 905.0, 133.1) <sup>Ⓜ 11/09 18:16:30</sup> | AR12443               |
| 11/09 21:03:00 - 11/10 06:23:54 | Fixed ( 920.8, 134.6)                             | AR12443 on W-limb     |
| 11/10 06:38:32 - 11/10 10:14:54 | Fixed ( 920.8, 134.6)                             | AR12443 on W-limb     |

**PROG= 07 30-time(s)**

|                                   |                  |       |      |       |       |     |     |                      |       |            |          |        |
|-----------------------------------|------------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 1 20-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 11 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                      | Al-poly/thick-Al | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| <b>Seqn=100 1-time(s) 10.0sec</b> |                  |       |      |       |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Subr= 2 1-time(s) 2.0sec</b>   |                  |       |      |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 10 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| med-Al/Open                       | med-Al/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |
| Open/thick-Be                     | Open/thick-Be    | close | Safe | Norm  | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |
| <b>Seqn= 11 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| Al-poly/Open                      | Al-poly/thick-Al | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| <b>Seqn= 84 1-time(s) 2.0sec</b>  |                  |       |      |       |       |     |     |                      |       |            |          |        |
| Open/G-band                       | Open/G-band      | open  | Safe | Norm  | 3ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/G-band                       | Open/G-band      | close | Safe | Norm  | 3ms   | 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

\* \* \* \* \*

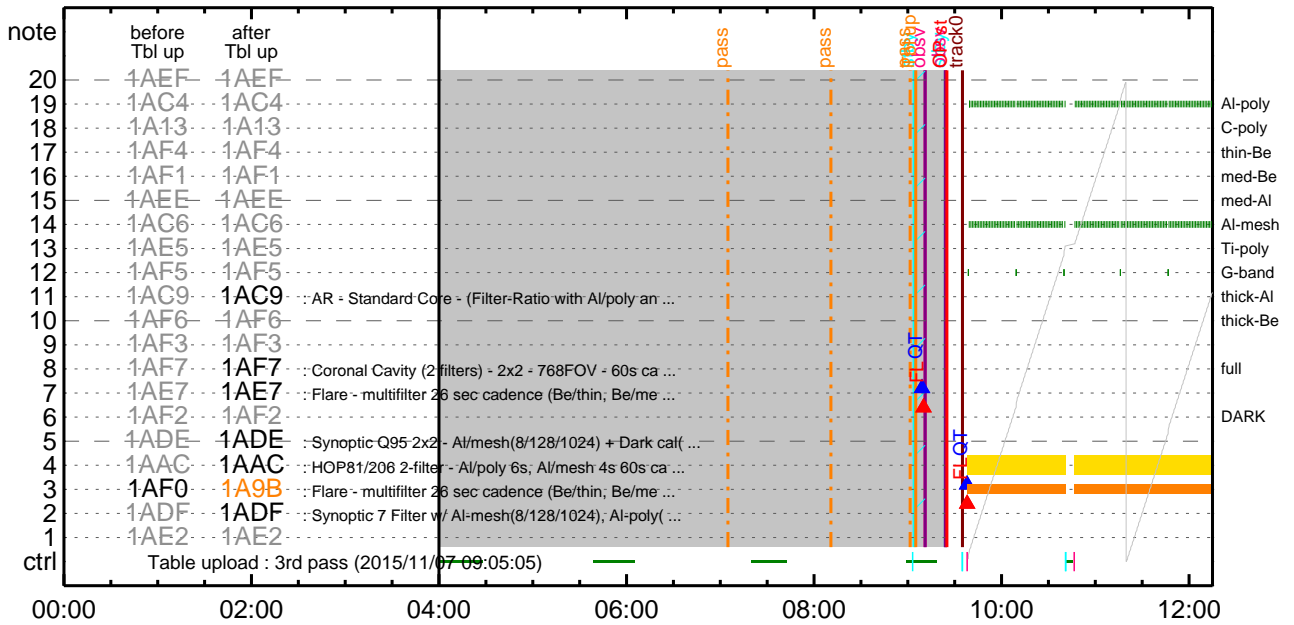
**Flare Detection**

\* \* \* \* \*

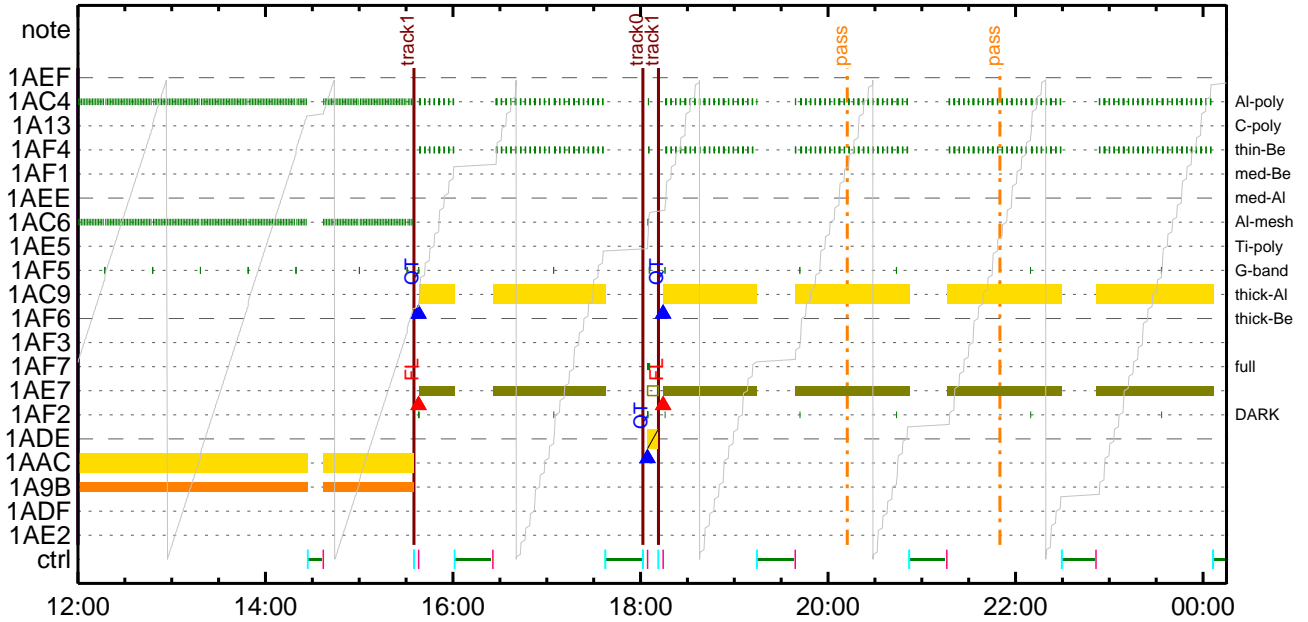
**FLD Patrol**

| Term                            | Pointing (x, y)                                   | Comment           |      |       |      |     |     |                    |       |            |          |
|---------------------------------|---|-------------------|------|-------|------|-----|-----|--------------------|-------|------------|----------|
| 11/07 18:11:48 - 11/08 05:47:48 | Track ( 669.6, 107.8) <sup>Ⓜ 11/07 18:11:30</sup> | AR12443           |      |       |      |     |     |                    |       |            |          |
| 11/08 05:57:48 - 11/08 17:50:18 | Track ( 743.0, 113.6) <sup>Ⓜ 11/08 05:57:30</sup> | AR12443           |      |       |      |     |     |                    |       |            |          |
| 11/08 18:00:18 - 11/09 06:00:18 | Track ( 808.0, 119.8) <sup>Ⓜ 11/08 18:00:00</sup> | AR12443           |      |       |      |     |     |                    |       |            |          |
| 11/09 06:10:18 - 11/09 18:06:48 | Track ( 862.6, 126.4) <sup>Ⓜ 11/09 06:10:00</sup> | AR12443           |      |       |      |     |     |                    |       |            |          |
| 11/09 18:16:48 - 11/10 06:24:18 | Track ( 905.0, 133.1) <sup>Ⓜ 11/09 18:16:30</sup> | AR12443           |      |       |      |     |     |                    |       |            |          |
| 11/10 06:38:18 - 11/12 10:44:00 | Fixed ( 920.8, 134.6)                             | AR12443 on W-limb |      |       |      |     |     |                    |       |            |          |
| Open/Ti-poly                    | Open/thick-Al                                     | close             | Safe | Norm  | 8ms  | Obs | 8x8 |                    | Q=50  |            | 30sec    |
| Default Filter                  | Thicker Filter                                    | VLS               | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

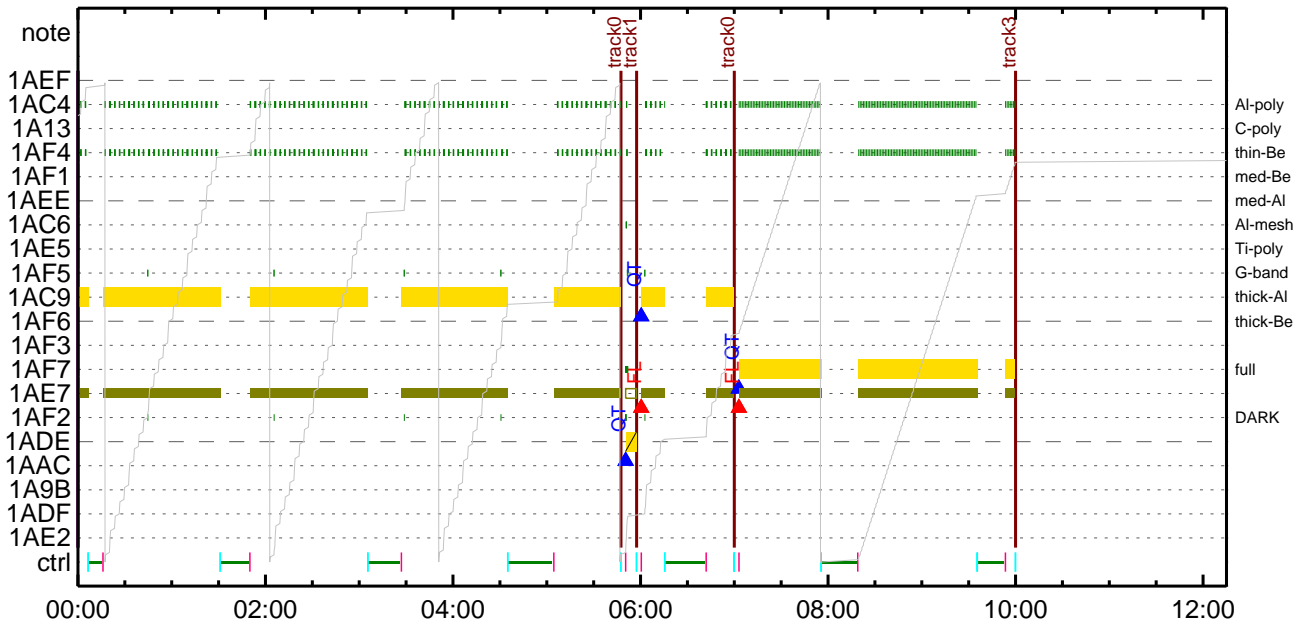
### CMDI #0511 2015/11/07



### CMDI #0511 2015/11/07

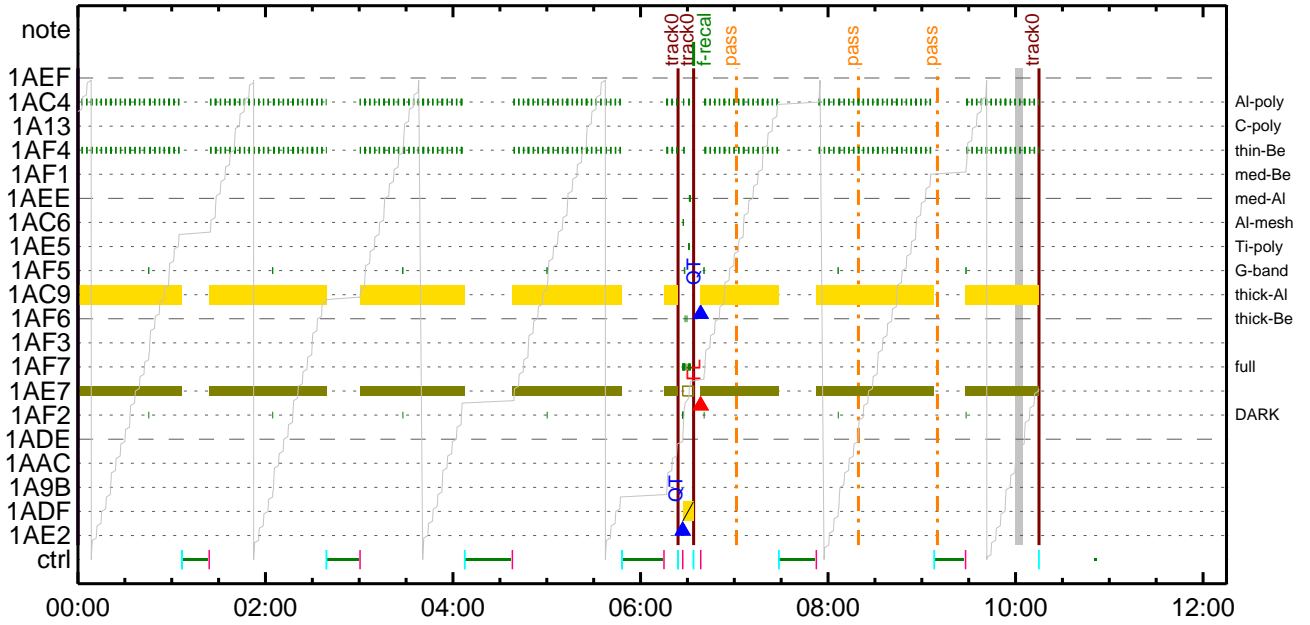


### CMDI #0511 2015/11/08

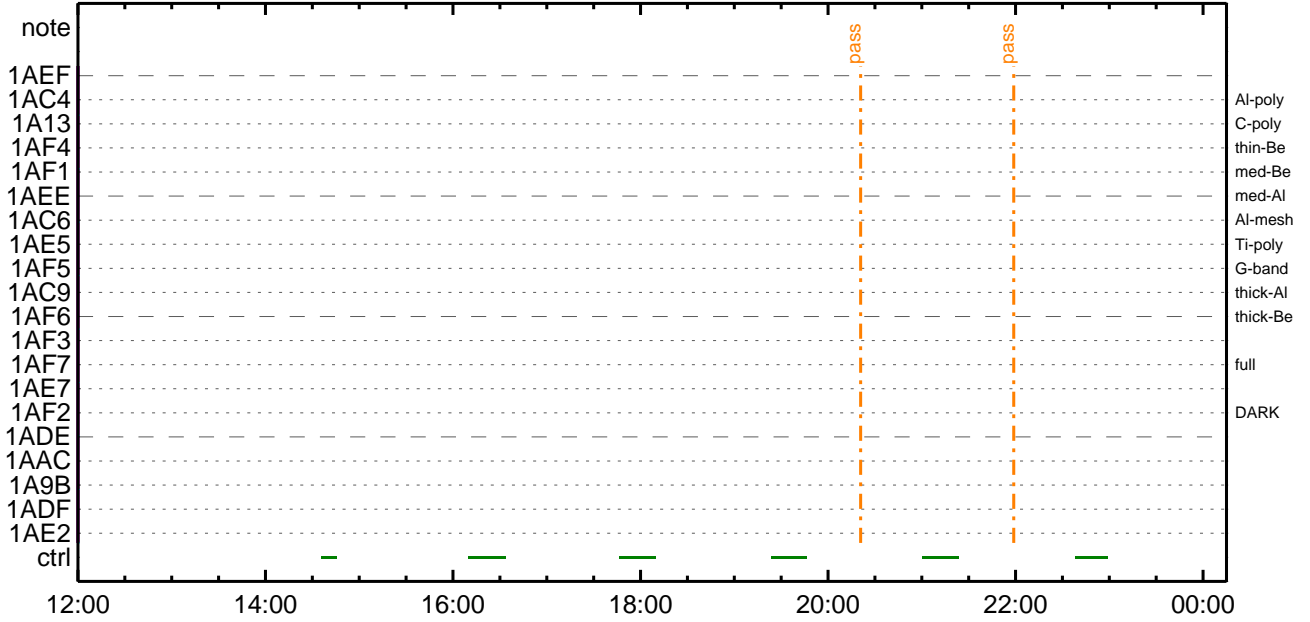




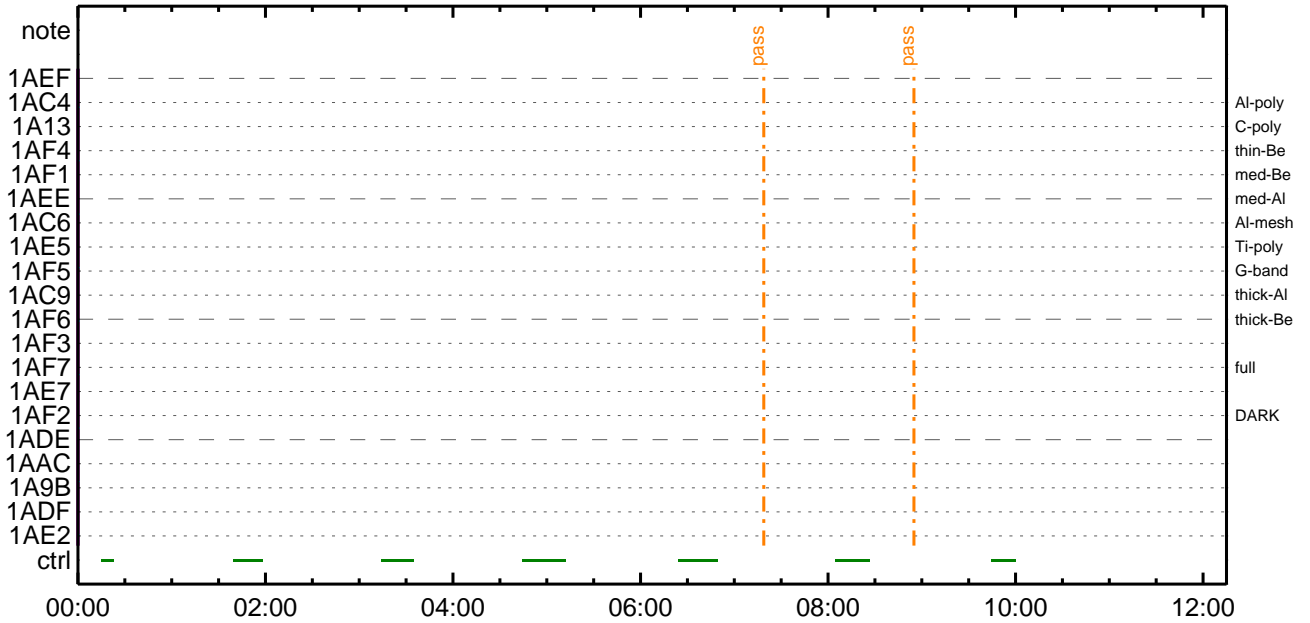
### CMDI #0511 2015/11/10



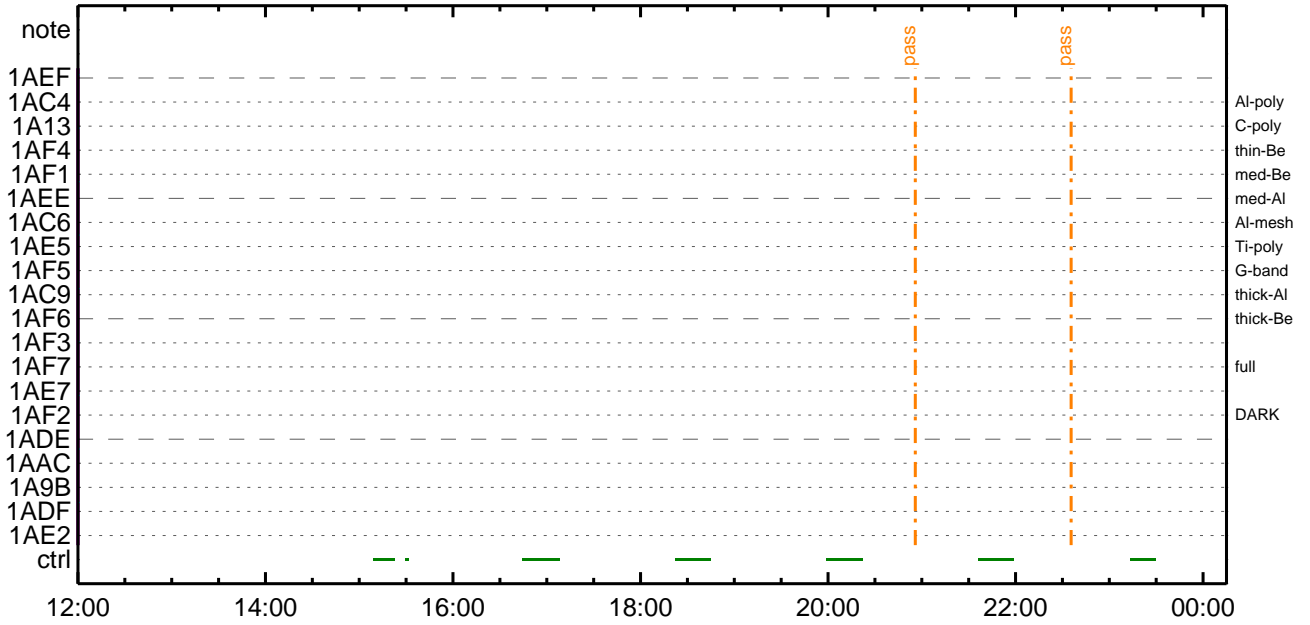
### CMDI #0511 2015/11/10



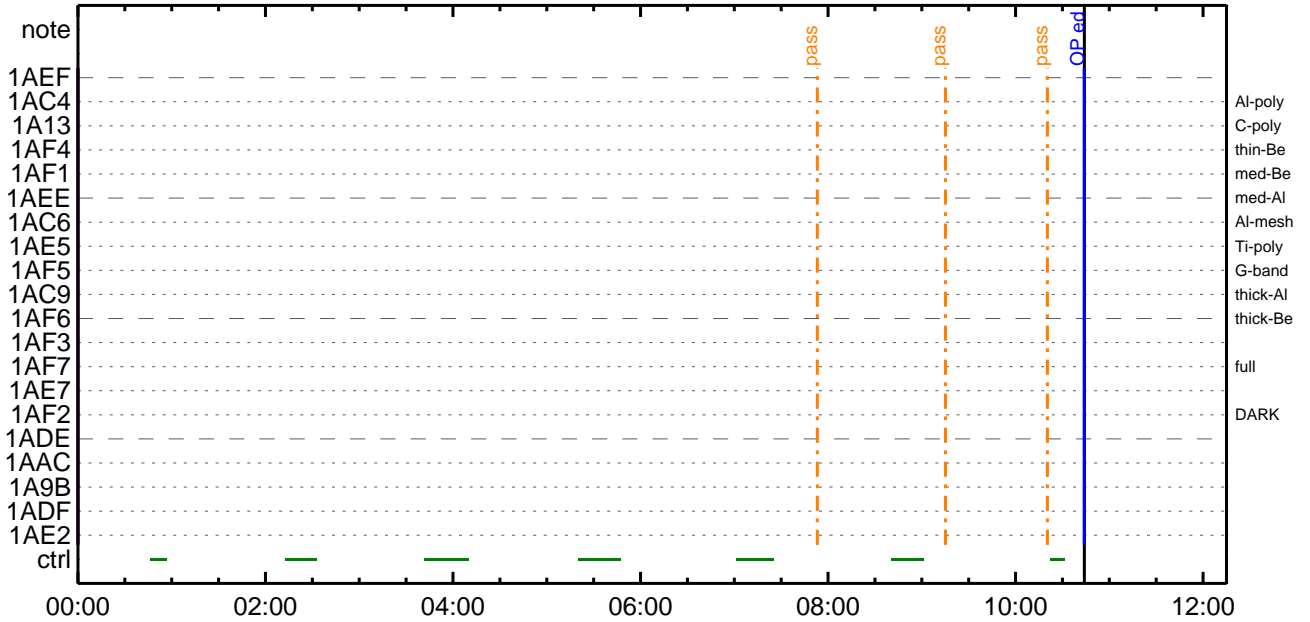
### CMDI #0511 2015/11/11



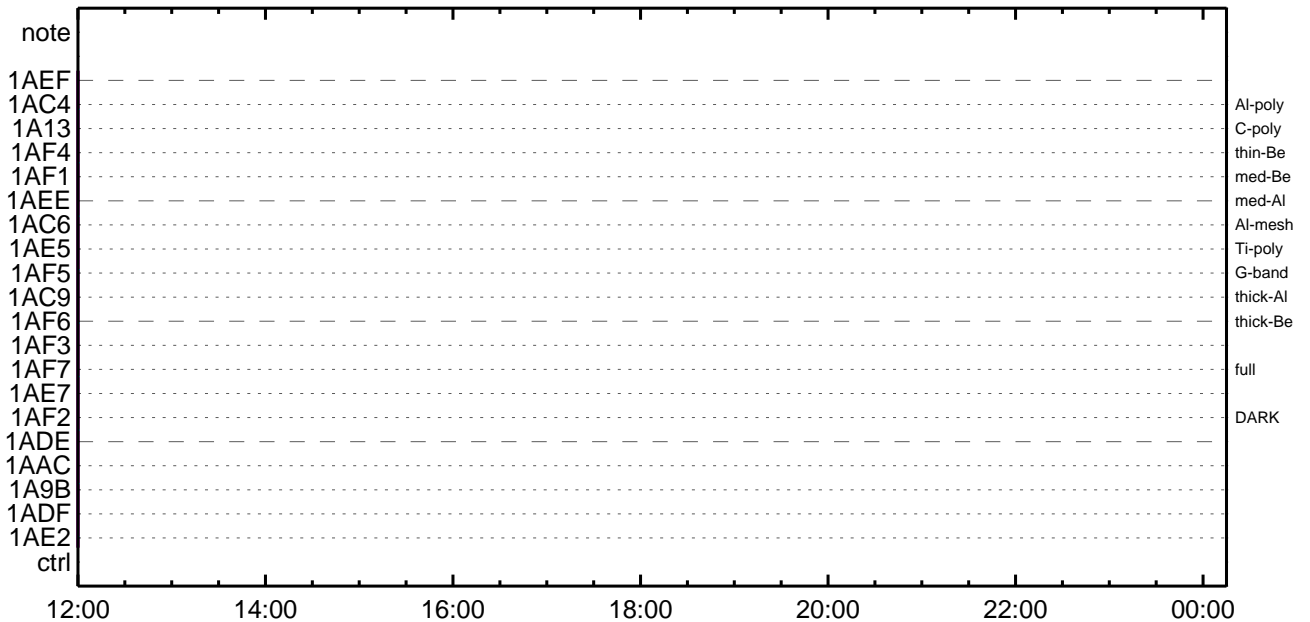
### CMDI #0511 2015/11/11



### CMDI #0511 2015/11/12



### CMDI #0511 2015/11/12









```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥ÐŸ!•İ Daily±;İÑøĒ'Øσ¹αēDCBC•x²è *****
0198 . S. DC-BC dcbc-153:DCBC
0199 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200 C.
0201 C.
0202 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ã
0203 C.
0204 . C. ***** LOS *****
0205 C.
```









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

|            |            |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|
| 2015/11/07 | 09:34:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 09:34:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 09:34:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2015/11/07 | 09:35:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 b2 4e 01 68 |  |  |
| 2015/11/07 | 09:35:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2015/11/07 | 09:35:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2015/11/07 | 09:35:22.0 | XRT_AEC_RESET_438_OG [0x1b6]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2015/11/07 | 09:35:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2015/11/07 | 09:35:26.0 | XRT_FLD_RESET_439_OG [0x1b7]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/07 | 09:37:56.0 | XRT_QT_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 04          |  |  |
| 2015/11/07 | 09:37:58.0 | XRT_FL_PROG_SET_443_OG [0x1bb]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 03          |  |  |
| 2015/11/07 | 09:38:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/07 | 10:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 10:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 10:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/07 | 10:41:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/11/07 | 10:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/11/07 | 10:45:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2015/11/07 | 10:46:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/07 | 14:27:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 14:27:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 14:27:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/07 | 14:27:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/11/07 | 14:30:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/11/07 | 14:36:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2015/11/07 | 14:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/07 | 15:34:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 15:34:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 15:34:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2015/11/07 | 15:35:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |
| 2015/11/07 | 15:35:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2015/11/07 | 15:35:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2015/11/07 | 15:35:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2015/11/07 | 15:35:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2015/11/07 | 15:35:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/07 | 15:37:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0b          |  |  |
| 2015/11/07 | 15:37:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |
| 2015/11/07 | 15:38:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/07 | 16:01:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 16:01:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 16:01:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/07 | 16:01:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/11/07 | 16:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/11/07 | 16:24:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2015/11/07 | 16:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/07 | 17:37:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/07 | 17:37:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2015/11/07 | 17:37:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/07 | 17:37:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/07 | 17:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/07 | 18:01:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 18:01:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 18:01:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2015/11/07 | 18:01:30.0 | AOCS_ORe-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2015/11/07 | 18:01:48.0 | XRT_FLD_DIS_406_OG [0x196]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2015/11/07 | 18:04:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2015/11/07 | 18:04:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2015/11/07 | 18:04:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 05          |
| 2015/11/07 | 18:04:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/07 | 18:11:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 18:11:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 18:11:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2015/11/07 | 18:11:30.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |
| 2015/11/07 | 18:11:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2015/11/07 | 18:11:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2015/11/07 | 18:11:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2015/11/07 | 18:11:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2015/11/07 | 18:11:56.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/07 | 18:14:26.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |
| 2015/11/07 | 18:14:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07          |
| 2015/11/07 | 18:14:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/07 | 19:14:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 19:14:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 19:14:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/07 | 19:14:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/07 | 19:17:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/07 | 19:38:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2015/11/07 | 19:39:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/07 | 20:52:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 20:52:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 20:52:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/07 | 20:52:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/07 | 20:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/07 | 21:15:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2015/11/07 | 21:16:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/07 | 22:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 22:29:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/07 | 22:29:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/07 | 22:29:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/07 | 22:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/07 | 22:50:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2015/11/07 | 22:51:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/08 | 00:06:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/08 | 00:06:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/08 | 00:06:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |



|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2015/11/08 | 00:06:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/11/08 | 00:09:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/11/08 | 00:15:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/11/08 | 00:16:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/11/08 | 01:31:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 01:31:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 01:31:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/11/08 | 01:31:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/11/08 | 01:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/11/08 | 01:49:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/11/08 | 01:50:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/11/08 | 03:05:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 03:05:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 03:05:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/11/08 | 03:05:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/11/08 | 03:08:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/11/08 | 03:26:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/11/08 | 03:27:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/11/08 | 04:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 04:35:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 04:35:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/11/08 | 04:35:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2015/11/08 | 04:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2015/11/08 | 05:03:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2015/11/08 | 05:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/11/08 | 05:47:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 05:47:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 05:47:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2015/11/08 | 05:47:30.0 | AOCS_OrE-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2015/11/08 | 05:47:48.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2015/11/08 | 05:50:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2015/11/08 | 05:50:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/11/08 | 05:50:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 05          |  |  |  |  |
| 2015/11/08 | 05:50:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/11/08 | 05:57:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 05:57:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 05:57:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2015/11/08 | 05:57:30.0 | AOCS_OrE-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2015/11/08 | 05:57:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2015/11/08 | 05:57:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2015/11/08 | 05:57:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2015/11/08 | 05:57:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2015/11/08 | 05:57:56.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2015/11/08 | 06:00:26.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0b          |  |  |  |  |
| 2015/11/08 | 06:00:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |  |  |
| 2015/11/08 | 06:00:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2015/11/08 | 06:15:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 06:15:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2015/11/08 | 06:15:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |

|            |            |                                   |                     |   |       |                |  |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|--|
| 2015/11/08 | 06:15:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |
| 2015/11/08 | 06:18:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |
| 2015/11/08 | 06:41:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |
| 2015/11/08 | 06:42:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |
| 2015/11/08 | 06:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 06:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 06:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |
| 2015/11/08 | 07:00:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | AOCU_NM             | 5 | 02-76 | 00 34 72 bd 59 |  |  |  |
| 2015/11/08 | 07:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |
| 2015/11/08 | 07:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |
| 2015/11/08 | 07:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |  |
| 2015/11/08 | 07:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |
| 2015/11/08 | 07:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |
| 2015/11/08 | 07:02:56.0 | XRT_QT_PROG_SET_426_OG [0x1aa]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 08          |  |  |  |
| 2015/11/08 | 07:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07          |  |  |  |
| 2015/11/08 | 07:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |
| 2015/11/08 | 07:55:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 07:55:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 07:55:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |
| 2015/11/08 | 07:55:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |
| 2015/11/08 | 07:58:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |
| 2015/11/08 | 08:18:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |
| 2015/11/08 | 08:19:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |
| 2015/11/08 | 09:35:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 09:35:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 09:35:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |
| 2015/11/08 | 09:35:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |
| 2015/11/08 | 09:38:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |
| 2015/11/08 | 09:52:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |  |  |  |
| 2015/11/08 | 09:53:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |
| 2015/11/08 | 09:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 09:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 10:00:00.0 | AOCS_Ore-point_Start_5_OG [0x09b] | AOCU_NM             | 5 | 02-76 | 03 00 00 00 00 |  |  |  |
| 2015/11/08 | 12:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 12:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 12:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |
| 2015/11/08 | 13:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |  |  |  |
| 2015/11/08 | 13:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |
| 2015/11/08 | 13:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |
| 2015/11/08 | 13:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |  |
| 2015/11/08 | 13:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |
| 2015/11/08 | 13:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |
| 2015/11/08 | 13:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |  |  |  |
| 2015/11/08 | 13:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07          |  |  |  |
| 2015/11/08 | 13:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |
| 2015/11/08 | 15:00:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 15:00:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |
| 2015/11/08 | 15:00:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |

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|            |            |                                   |                     |   |       |                |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|
| 2015/11/08 | 15:00:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/11/08 | 15:03:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/11/08 | 15:13:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/11/08 | 15:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/11/08 | 16:36:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 16:36:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 16:36:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/11/08 | 16:36:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/11/08 | 16:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/11/08 | 16:59:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/11/08 | 17:00:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 17:49:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 17:49:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2015/11/08 | 17:49:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |
| 2015/11/08 | 17:50:00.0 | AOCs_OrE-point_Start_3_OG [0x099] | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |
| 2015/11/08 | 17:50:18.0 | XRT_FLD_DIS_406_OG [0x196]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |
| 2015/11/08 | 17:52:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2015/11/08 | 17:52:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 05          |  |
| 2015/11/08 | 17:52:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/11/08 | 17:53:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2015/11/08 | 17:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |  |
| 2015/11/08 | 18:00:00.0 | AOCs_OrE-point_Start_2_OG [0x098] | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2015/11/08 | 18:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2015/11/08 | 18:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2015/11/08 | 18:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2015/11/08 | 18:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/11/08 | 18:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |  |
| 2015/11/08 | 18:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07          |  |
| 2015/11/08 | 18:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/11/08 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 18:13:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 18:13:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 18:13:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/11/08 | 18:13:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/11/08 | 18:16:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/11/08 | 18:36:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/11/08 | 18:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 19:50:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 19:50:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 19:50:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2015/11/08 | 19:50:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2015/11/08 | 19:53:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2015/11/08 | 20:13:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2015/11/08 | 20:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 21:27:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2015/11/08 | 21:27:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2015/11/08 | 21:27:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/08 | 21:27:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/08 | 21:30:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/08 | 21:50:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2015/11/08 | 21:51:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/08 | 21:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/08 | 21:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/08 | 21:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2015/11/08 | 22:00:00.0 | AOCS_OrE-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 00 0f 4b 54 ac |
| 2015/11/08 | 22:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2015/11/08 | 22:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2015/11/08 | 22:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2015/11/08 | 22:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2015/11/08 | 22:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/08 | 22:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |
| 2015/11/08 | 22:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07          |
| 2015/11/08 | 22:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/08 | 23:04:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/08 | 23:04:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/08 | 23:04:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/08 | 23:04:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/08 | 23:07:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/08 | 23:23:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2015/11/08 | 23:24:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/09 | 00:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 00:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 00:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2015/11/09 | 00:30:00.0 | AOCS_OrE-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 01 00 00 00 00 |
| 2015/11/09 | 00:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2015/11/09 | 00:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2015/11/09 | 00:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2015/11/09 | 00:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2015/11/09 | 00:30:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/09 | 00:32:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |
| 2015/11/09 | 00:32:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07          |
| 2015/11/09 | 00:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/09 | 00:41:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 00:41:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 00:41:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/09 | 00:41:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/09 | 00:44:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/09 | 00:48:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2015/11/09 | 00:49:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/09 | 02:04:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 02:04:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 02:04:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/09 | 02:04:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/09 | 02:07:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |

|            |            |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|
| 2015/11/09 | 02:24:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2015/11/09 | 02:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/09 | 03:35:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 03:35:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 03:35:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/09 | 03:35:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/11/09 | 03:38:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/11/09 | 04:01:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2015/11/09 | 04:02:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/09 | 05:11:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 05:11:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 05:11:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/09 | 05:11:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/11/09 | 05:14:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/11/09 | 05:39:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |
| 2015/11/09 | 05:40:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/09 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 05:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2015/11/09 | 06:00:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2015/11/09 | 06:00:18.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |
| 2015/11/09 | 06:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |
| 2015/11/09 | 06:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2015/11/09 | 06:02:58.0 | XRT_QT_PROG_SET_421_OG [0x1a5]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 05          |  |  |
| 2015/11/09 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/09 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 06:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2015/11/09 | 06:10:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |
| 2015/11/09 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2015/11/09 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2015/11/09 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2015/11/09 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2015/11/09 | 06:10:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/09 | 06:12:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0b          |  |  |
| 2015/11/09 | 06:12:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |
| 2015/11/09 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2015/11/09 | 06:52:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 06:52:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 06:52:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2015/11/09 | 06:52:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2015/11/09 | 06:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2015/11/09 | 06:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 06:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2015/11/09 | 06:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2015/11/09 | 07:00:00.0 | AOCS_Ore-point_Start_7_OG [0x09d] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 32 a7 bc 01 |  |  |
| 2015/11/09 | 07:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2015/11/09 | 07:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |

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|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2015/11/09 | 07:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2015/11/09 | 07:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/11/09 | 07:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2015/11/09 | 07:02:56.0 | XRT_QT_PROG_SET_426_OG [0x1aa]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 08 |    |    |    |
| 2015/11/09 | 07:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 07 |    |    |    |
| 2015/11/09 | 07:16:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2015/11/09 | 07:17:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/11/09 | 08:31:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 08:31:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 08:31:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2015/11/09 | 08:31:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/11/09 | 08:34:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/11/09 | 08:52:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2015/11/09 | 08:53:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/11/09 | 09:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 09:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 09:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2015/11/09 | 10:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 | 00 | 00 | 00 | 00 |
| 2015/11/09 | 10:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8 |    |    |    |    |
| 2015/11/09 | 10:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8 |    |    |    |    |
| 2015/11/09 | 10:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0 |    |    |    |    |
| 2015/11/09 | 10:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2015/11/09 | 10:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2015/11/09 | 10:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 0b |    |    |    |
| 2015/11/09 | 10:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 | 07 |    |    |    |
| 2015/11/09 | 10:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/11/09 | 10:12:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 10:12:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 10:12:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2015/11/09 | 10:12:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/11/09 | 10:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/11/09 | 10:24:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2015/11/09 | 10:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/11/09 | 15:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 15:35:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 15:35:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2015/11/09 | 15:35:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/11/09 | 15:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/11/09 | 15:58:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2015/11/09 | 15:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/11/09 | 17:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 17:11:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 17:11:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da |    |    |    |    |
| 2015/11/09 | 17:11:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8 |    |    |    |    |
| 2015/11/09 | 17:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9 |    |    |    |    |
| 2015/11/09 | 17:35:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2015/11/09 | 17:36:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2015/11/09 | 18:06:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2015/11/09 | 18:06:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |

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|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2015/11/09 | 18:06:28.0 | XRT_FOCUS_POSITION_403_OG [0x193]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2015/11/09 | 18:06:30.0 | AOCS_Ore-point_Start_3_OG [0x099]<br>AOCU_NM            | 5 | 02-76 | 00 00 00 00 00 |
| 2015/11/09 | 18:06:48.0 | XRT_FLD_DIS_406_OG [0x196]<br>MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2015/11/09 | 18:09:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]<br>MDP_XRT_FLRCTRL_DIS   | 1 | 07-F0 | c9             |
| 2015/11/09 | 18:09:26.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2015/11/09 | 18:09:28.0 | XRT_QT_PROG_SET_421_OG [0x1a5]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 05          |
| 2015/11/09 | 18:09:30.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/09 | 18:16:24.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 18:16:26.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 18:16:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2015/11/09 | 18:16:30.0 | AOCS_Ore-point_Start_2_OG [0x098]<br>AOCU_NM            | 5 | 02-76 | 01 00 00 00 00 |
| 2015/11/09 | 18:16:48.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2015/11/09 | 18:16:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2015/11/09 | 18:16:52.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2015/11/09 | 18:16:54.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2015/11/09 | 18:16:56.0 | XRT_FLD_RESET_433_OG [0x1b1]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2015/11/09 | 18:19:26.0 | XRT_QT_PROG_SET_440_OG [0x1b8]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 0b          |
| 2015/11/09 | 18:19:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 07          |
| 2015/11/09 | 18:19:30.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/09 | 18:48:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 18:48:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 18:48:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2015/11/09 | 18:48:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2015/11/09 | 18:51:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2015/11/09 | 19:11:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2015/11/09 | 19:12:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/09 | 20:25:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 20:25:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 20:25:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2015/11/09 | 20:25:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2015/11/09 | 20:28:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2015/11/09 | 20:49:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2015/11/09 | 20:50:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/09 | 20:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 20:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 20:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2015/11/09 | 21:00:00.0 | AOCS_Ore-point_Start_8_OG [0x09e]<br>AOCU_NM            | 5 | 02-76 | 00 f4 09 ae 25 |
| 2015/11/09 | 21:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2015/11/09 | 21:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2015/11/09 | 21:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2015/11/09 | 21:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2015/11/09 | 21:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2015/11/09 | 21:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 0b          |
| 2015/11/09 | 21:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 07          |
| 2015/11/09 | 21:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/09 | 22:02:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 22:02:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/09 | 22:02:34.0 | XRT_FLD_RESET_415_OG [0x19f]                            |   |       |                |

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|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2015/11/09 | 22:02:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/09 | 22:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/09 | 22:24:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/09 | 22:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/09 | 23:40:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 23:40:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/09 | 23:40:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/09 | 23:40:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/09 | 23:43:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/09 | 23:51:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/09 | 23:52:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 01:06:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/10 | 01:06:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 01:06:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 01:06:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/10 | 01:09:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/10 | 01:23:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 01:24:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 02:39:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/10 | 02:39:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 02:39:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 02:39:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/10 | 02:42:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/10 | 02:59:30.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 03:00:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 04:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/10 | 04:07:32.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 04:07:34.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 04:07:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/10 | 04:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/10 | 04:37:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 04:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 05:48:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/10 | 05:48:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 05:48:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 05:48:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2015/11/10 | 05:51:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2015/11/10 | 06:14:00.0 | XRT_Custom_430_OG [0x1ae]         | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 06:15:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2015/11/10 | 06:23:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/10 | 06:23:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 06:23:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2015/11/10 | 06:24:00.0 | AOCS_OrE-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2015/11/10 | 06:24:18.0 | XRT_FLD_DIS_406_OG [0x196]        | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2015/11/10 | 06:26:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2015/11/10 | 06:26:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2015/11/10 | 06:26:58.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2015/11/10 | 06:27:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 02          |
| 2015/11/10 | 06:33:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2015/11/10 |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |



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|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2015/11/10 | 06:33:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/10 | 06:33:58.0 | XRT_FOCUS_RECALIBRATE_445_OG [0x1bd]<br>XRT_FOCUS_RECAL | 2 | 07-F8 | 78 00          |
| 2015/11/10 | 06:34:00.0 | AOCS_ORe-point_Start_8_OG [0x09e]<br>AOCU_NM            | 5 | 02-76 | 00 f4 09 ae 25 |
| 2015/11/10 | 06:37:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2015/11/10 | 06:38:18.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2015/11/10 | 06:38:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2015/11/10 | 06:38:22.0 | XRT_AEC_RESET_448_OG [0x1c0]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2015/11/10 | 06:38:24.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2015/11/10 | 06:38:26.0 | XRT_FLD_RESET_437_OG [0x1b5]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2015/11/10 | 06:38:28.0 | XRT_QT_PROG_SET_440_OG [0x1b8]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 0b          |
| 2015/11/10 | 06:38:30.0 | XRT_FL_PROG_SET_436_OG [0x1b4]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 07          |
| 2015/11/10 | 06:38:32.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/10 | 07:28:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/10 | 07:28:32.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/10 | 07:28:34.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2015/11/10 | 07:28:36.0 | XRT_PREFLR_STRT_425_OG [0x1a9]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2015/11/10 | 07:31:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2015/11/10 | 07:51:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2015/11/10 | 07:52:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/10 | 09:08:00.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/10 | 09:08:02.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/10 | 09:08:04.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2015/11/10 | 09:08:06.0 | XRT_PREFLR_STRT_425_OG [0x1a9]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2015/11/10 | 09:11:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2015/11/10 | 09:27:00.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2015/11/10 | 09:28:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2015/11/10 | 10:14:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/10 | 10:14:56.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2015/11/10 | 10:15:00.0 | AOCS_ORe-point_Start_3_OG [0x099]<br>AOCU_NM            | 5 | 02-76 | 00 00 00 00 00 |