

# XRT Timeline to be uploaded on 2017/03/02

Period: 2017/03/02 11:01:00 - 2017/03/07 10:42:00

\* \* \* \* \*

Normal mode

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## XOB #1B68: 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  |
|---------------------------------|--|--|
| 03/02 11:14:00 - 03/02 18:00:24 | Track ( 813.3, 302.1) <sup>03/02 11:11:00</sup>                  | # OP start + 10min, HOP 332 on AR 12638 sunpost. |
| <b>PROG= 03 Inf.-time(s)</b>    |  |  |
| └─ 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= 96 4-time(s) 30.0sec   |  |  |
| └─ 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 15.0sec                                 |
| └─ 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 15.0sec                                 |
| └─ 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 #1B64: Synoptic Q95 2x2 - Al/mesh(64/512/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(45/512/4096) + T

| Term                            | Pointing (x, y)   | Comment                     |
|---------------------------------|---|-----------------------------|
| 03/02 18:03:30 - 03/02 18:10:24 | Fixed ( 0.0, 0.0)   | synoptic, shifted 0.5 min   |
| 03/03 05:49:30 - 03/03 05:56:24 | Fixed ( 0.0, 0.0)   | synoptic, shifted -13.5 min |
| 03/03 17:51:30 - 03/03 17:58:24 | Fixed ( 0.0, 0.0)   | synoptic, shifted -11.5 min |
| <b>PROG= 06 1-time(s)</b>       |   |                             |
| └─ Subr= 1 1-time(s) 2.0sec     |   |                             |
| └─ Seqn= 5 1-time(s) 2.0sec     |   |                             |
| └─ Open/Ti-poly                 | Open/thick-Al close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024)    | Q=98 0 0 2.0sec             |
| └─ Open/Ti-poly                 | Open/thick-Al close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024)    | Q=98 0 0 2.0sec             |
| └─ Open/Ti-poly                 | Open/thick-Al close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024)    | Q=98 0 0 2.0sec             |
| └─ Open/Ti-poly                 | Open/thick-Al close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024)     | DPCM 0 0 2.0sec             |
| └─ Open/Ti-poly                 | Open/thick-Al close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024)     | DPCM 0 0 2.0sec             |
| └─ Seqn= 27 1-time(s) 2.0sec    |   |                             |
| └─ Open/Al-mesh                 | Open/Al-mesh close Safe Norm 63ms Obs 2x2 2048x2048 (1024, 1024)      | Q=95 0 0 2.0sec             |
| └─ Open/Al-mesh                 | Open/Al-mesh close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024)     | Q=95 0 0 2.0sec             |
| └─ Open/Al-mesh                 | Open/Al-mesh close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024)     | Q=95 0 0 2.0sec             |
| └─ Seqn= 99 1-time(s) 2.0sec    |   |                             |
| └─ Al-poly/Open                 | Al-poly/Open close Safe Norm 44ms Obs 2x2 2048x2048 (1024, 1024)      | Q=95 0 0 2.0sec             |
| └─ Al-poly/Open                 | Al-poly/Open close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024)     | Q=95 0 0 2.0sec             |
| └─ Al-poly/Open                 | Al-poly/thick-Al close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec             |
| └─ Seqn= 85 1-time(s) 2.0sec    |   |                             |
| └─ thin-Be/Open                 | thin-Be/Open close Safe Norm 354ms Obs 2x2 2048x2048 (1024, 1024)     | Q=95 0 0 2.0sec             |
| └─ thin-Be/Open                 | thin-Be/Open close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024)     | Q=95 0 0 2.0sec             |
| └─ thin-Be/Open                 | thin-Be/Open close Safe Norm 16.0s Obs 2x2 2048x2048 (1024, 1024)     | Q=95 0 0 2.0sec             |
| └─ Seqn= 54 1-time(s) 2.0sec    |   |                             |
| └─ 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 #1AFF: 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                               |
|---------------------------------|--|---------------------------------------|
| 03/02 18:13:30 - 03/02 23:59:54 | Track ( 823.3, 330.5) <sup>03/02 18:10:30</sup>                  | # HOP 331 on AR 12638 (18:10-21:10UT) |
| 03/03 00:03:00 - 03/03 05:46:24 | Track ( -100.2, 340.2) <sup>03/03 00:00:00</sup>                 | # Observe AR 12641 with IRIS.         |
| 03/03 18:01:30 - 03/03 23:59:54 | Fixed ( 863.0, 318.0)  | # HOP 331 on AR 12638 (18-21UT).      |
| 03/04 00:03:00 - 03/04 05:59:54 | Track ( 117.5, 339.9) <sup>03/04 00:00:00</sup>                  | # AR 12641 with IRIS.                 |
| 03/04 06:13:00 - 03/04 10:55:35 | Fixed ( 863.0, 318.0)  | # AR 12638 on the limb.               |
| <b>PROG= 18 Inf.-time(s)</b>    |  |                                       |
| └─ 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  |
| <b>Seqn= 96 4-time(s) 60.0sec</b> |                |       |      |       |       |     |     |                      |       |            |          |         |
| Al-poly/Open                      | thin-Be/Open   | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 2.0sec  |
| thin-Be/Open                      | med-Be/Open    | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 1          | 0        | 15.0sec |
| 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        | 15.0sec |
| 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 #1B46: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, thin-Be, thick-Al, Al/Poly context, with G-band (3ms/3ms)**

| Term                               | Pointing (x, y)       | Comment  |
|------------------------------------|-----------------------|--|
| 03/03 05:59:30 - 03/03 09:59:54    | Fixed ( 863.0, 318.0) | # Fixed pointing on AR 12638.  |
| <b>PROG= 02 Inf.-time(s)</b>       |                       |  |
| <b>Subr= 1 1-time(s) 2.0sec</b>    |                       |  |
| <b>Seqn= 56 1-time(s) 2.0sec</b>   |                       |  |
| 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       |
| <b>Seqn= 42 3-time(s) 2.0sec</b>   |                       |  |
| Al-poly/Open                       | thin-Be/Open          | close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec       |
| thin-Be/Open                       | med-Be/Open           | close Safe Norm 5.66s Obs 1x1 512x512 (1064, 1048) Q=95 3 0 2.0sec       |
| Open/thick-Al                      | Open/thick-Al         | close Safe Norm 16.0s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec       |
| <b>Seqn= 32 40-time(s) 90.0sec</b> |                       |  |
| thin-Be/Open                       | med-Be/Open           | close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec       |
| Al-poly/Open                       | thin-Be/Open          | close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 34.0sec      |
| thin-Be/Open                       | med-Be/Open           | close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 1 2.0sec       |
| Al-poly/Open                       | thin-Be/Open          | close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 1 34.0sec      |
| thin-Be/Open                       | med-Be/Open           | close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec       |
| Al-poly/Open                       | thin-Be/Open          | close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec       |
| Default Filter                     | Thicker Filter        | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

**XOB #1B4D: HOP81/206 2-filter - Al/poly 8s, Al/mesh 6s 60s cadence, G-band - 384x384 3ms**

| Term                              | Pointing (x, y)        | Comment  |
|-----------------------------------|------------------------|--|
| 03/03 10:03:00 - 03/03 17:48:24   | Fixed ( -22.0, -953.0) | # HOP 206 on South Pole.   |
| <b>PROG= 16 Inf.-time(s)</b>      |                        |  |
| <b>Subr= 1 1-time(s) 2.0sec</b>   |                        |  |
| <b>Seqn= 9 2-time(s) 2.0sec</b>   |                        |  |
| Open/G-band                       | Open/G-band            | close Safe Norm 3ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec         |
| <b>Subr= 2 1-time(s) 2.0sec</b>   |                        |  |
| <b>Seqn= 7 1-time(s) 30.0sec</b>  |                        |  |
| Open/G-band                       | Open/G-band            | open Safe Norm 3ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec          |
| <b>Subr= 3 30-time(s) 2.0sec</b>  |                        |  |
| <b>Seqn= 24 1-time(s) 60.0sec</b> |                        |  |
| Open/Al-mesh                      | Open/thick-Al          | close Safe Norm 5.66s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec       |
| Al-poly/Open                      | Al-poly/Open           | close Safe Norm 8.00s 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 #1B66: Synoptic 7 Filter w/ Al-mesh(64/512/2897), Al-poly(45/512/4096), Thin-Be(512/8192/23142) - Thick-Be(65536), Al-poly+Ti-poly(256/5795), Med-Al**

| Term                             | Pointing (x, y)   | Comment  |
|----------------------------------|-------------------|--|
| 03/04 06:03:00 - 03/04 06:09:54  | Fixed ( 0.0, 0.0) | synoptic   |
| <b>PROG= 12 1-time(s)</b>        |                   |  |
| <b>Subr= 1 1-time(s) 2.0sec</b>  |                   |  |
| <b>Seqn= 5 1-time(s) 2.0sec</b>  |                   |  |
| Open/Ti-poly                     | Open/thick-Al     | close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly                     | Open/thick-Al     | close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly                     | Open/thick-Al     | close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly                     | Open/thick-Al     | close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec  |
| Open/Ti-poly                     | Open/thick-Al     | close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec  |
| <b>Seqn= 1 1-time(s) 2.0sec</b>  |                   |  |
| Open/Al-mesh                     | Open/Al-mesh      | close Safe Norm 24ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |
| Open/Al-mesh                     | Open/Al-mesh      | close Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Open/Al-mesh                     | Open/Al-mesh      | close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| <b>Seqn= 99 1-time(s) 2.0sec</b> |                   |  |
| Al-poly/Open                     | Al-poly/Open      | close Safe Norm 44ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec  |
| Al-poly/Open                     | Al-poly/Open      | close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Al-poly/Open                     | Al-poly/thick-Al  | close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| <b>Seqn= 94 1-time(s) 2.0sec</b> |                   |  |
| thin-Be/Open                     | thin-Be/Open      | close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| thin-Be/Open                     | thin-Be/Open      | close Safe Norm 8.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| thin-Be/Open                     | thin-Be/Open      | close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| <b>Seqn= 54 1-time(s) 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 1-time(s) 2.0sec</b>  |                   |  |
| <b>Seqn= 46 1-time(s) 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 |

|                 |                  |           |      |        |       |     |     |                    |              |       |            |          |        |  |  |
|-----------------|------------------|-----------|------|--------|-------|-----|-----|--------------------|--------------|-------|------------|----------|--------|--|--|
| Seqn= 20        |                  | 1-time(s) |      | 2.0sec |       |     |     |                    |              |       |            |          |        |  |  |
| med-AI/Open     | med-AI/Open      | close     | Safe | Norm   | 4.00s | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |  |
| med-AI/Open     | med-AI/Open      | close     | Safe | Norm   | 64.0s | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |  |
| Seqn= 40        |                  | 1-time(s) |      | 2.0sec |       |     |     |                    |              |       |            |          |        |  |  |
| Al-poly/Ti-poly | Al-poly/thick-AI | close     | Safe | Norm   | 250ms | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |  |
| Al-poly/Ti-poly | Al-poly/thick-AI | close     | Safe | Norm   | 5.66s | 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 #1AE7: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-AI,thick-Be -384x384 + Al-poly 512

| Term                            | Pointing (x, y)                                  | Comment  |
|---------------------------------|--|--|
| 03/02 11:14:00 - 03/02 18:00:24 | Track ( 813.3, 302.1) <sup>03/02 11:11:00</sup>  | # OP start + 10min, HOP 332 on AR 12638 sunpost. |
| 03/02 18:13:30 - 03/02 23:59:54 | Track ( 823.3, 330.5) <sup>03/02 18:10:30</sup>  | # HOP 331 on AR 12638 (18:10-21:10UT)            |
| 03/03 00:03:00 - 03/03 05:46:24 | Track ( -100.2, 340.2) <sup>03/03 00:00:00</sup> | # Observe AR 12641 with IRIS.                    |
| 03/03 05:59:30 - 03/03 09:59:54 | Fixed ( 863.0, 318.0)                            | # Fixed pointing on AR 12638.                    |
| 03/03 10:03:00 - 03/03 17:48:24 | Fixed ( -22.0, -953.0)                           | # HOP 206 on South Pole.                         |
| 03/03 18:01:30 - 03/03 23:59:54 | Fixed ( 863.0, 318.0)                            | # HOP 331 on AR 12638 (18-21UT).                 |
| 03/04 00:03:00 - 03/04 05:59:54 | Track ( 117.5, 339.9) <sup>03/04 00:00:00</sup>  | # AR 12641 with IRIS.                            |
| 03/04 06:13:00 - 03/04 10:55:35 | Fixed ( 863.0, 318.0)                            | # AR 12638 on the limb.                          |

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

|                |                  |            |      |         |       |     |     |                    |              |       |            |          |        |  |  |
|----------------|------------------|------------|------|---------|-------|-----|-----|--------------------|--------------|-------|------------|----------|--------|--|--|
| Subr= 1        |                  | 20-time(s) |      | 2.0sec  |       |     |     |                    |              |       |            |          |        |  |  |
| Seqn= 11       |                  | 1-time(s)  |      | 2.0sec  |       |     |     |                    |              |       |            |          |        |  |  |
| Al-poly/Open   | Al-poly/thick-AI | close      | Safe | Norm    | 125ms | Obs | 2x2 | 512x512            | (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |  |  |
| Seqn=100       |                  | 1-time(s)  |      | 10.0sec |       |     |     |                    |              |       |            |          |        |  |  |
| thin-Be/Open   | med-Be/Open      | close      | Safe | Norm    | 125ms | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |  |  |
| med-Be/Open    | Open/thick-AI    | close      | Safe | Norm    | 250ms | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |  |
| Open/thick-AI  | Open/thick-Be    | close      | Safe | Norm    | 1.00s | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |  |
| Subr= 2        |                  | 1-time(s)  |      | 2.0sec  |       |     |     |                    |              |       |            |          |        |  |  |
| Seqn= 10       |                  | 1-time(s)  |      | 2.0sec  |       |     |     |                    |              |       |            |          |        |  |  |
| med-AI/Open    | med-AI/thick-AI  | close      | Safe | Norm    | 500ms | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |  |
| Open/thick-Be  | Open/thick-Be    | close      | Safe | Norm    | 2.00s | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |  |
| Seqn= 11       |                  | 1-time(s)  |      | 2.0sec  |       |     |     |                    |              |       |            |          |        |  |  |
| Al-poly/Open   | Al-poly/thick-AI | close      | Safe | Norm    | 125ms | Obs | 2x2 | 512x512            | (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |  |  |
| Seqn= 84       |                  | 1-time(s)  |      | 2.0sec  |       |     |     |                    |              |       |            |          |        |  |  |
| 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-AI  | Open/thick-AI    | close      | Safe | Dark    | 1.00s | Obs | 1x1 | 384x384            | (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |  |
| Open/thick-AI  | Open/thick-AI    | 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

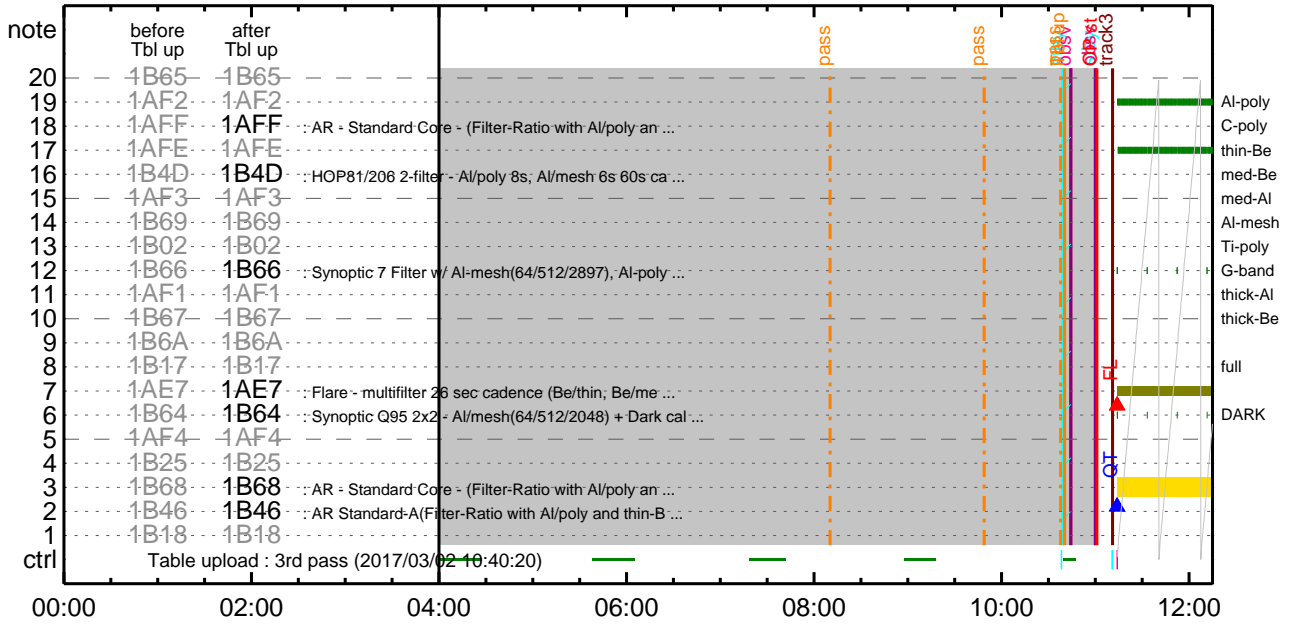
\* \* \* \* \*

### Flare Detection

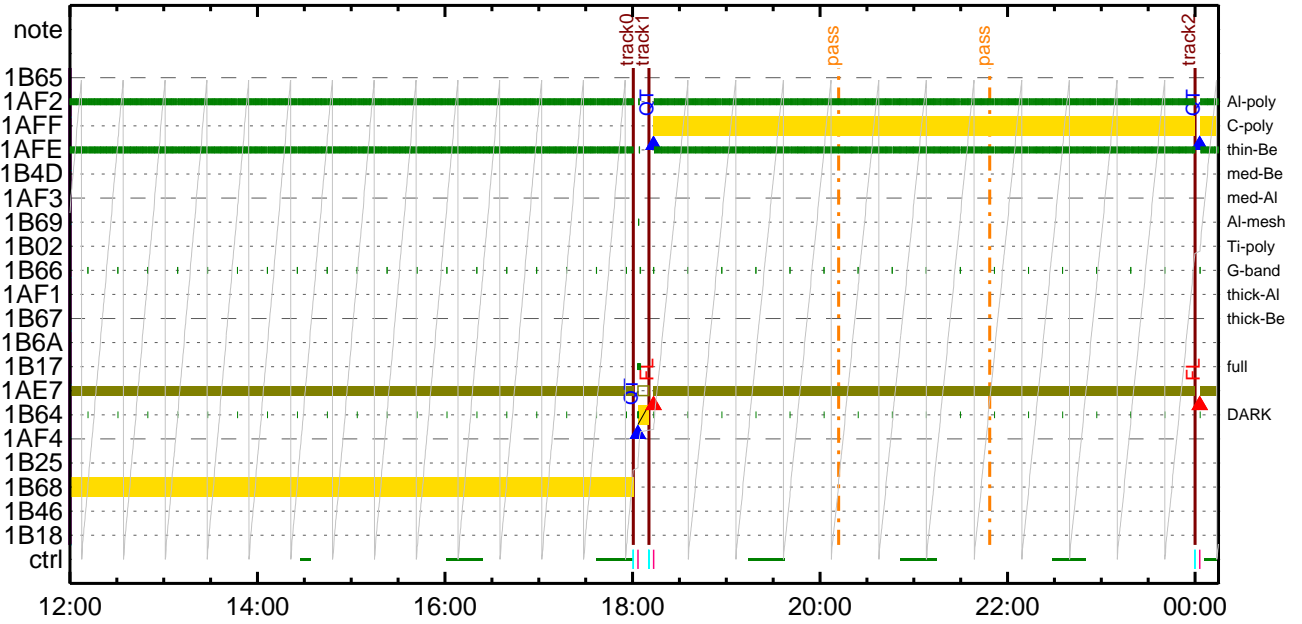
\* \* \* \* \*

| FLD Patrol                      |   |                                       |      |       |      |     |     |                    |  |       |            |          |  |
|---------------------------------|---|---------------------------------------|------|-------|------|-----|-----|--------------------|--|-------|------------|----------|--|
| Term                            | Pointing (x, y)                                 | Comment                               |      |       |      |     |     |                    |  |       |            |          |  |
| 03/02 18:10:48 - 03/03 05:46:48 | Track ( 823.3, 330.5) <sup>03/02 18:10:30</sup> | # HOP 331 on AR 12638 (18:10-21:10UT) |      |       |      |     |     |                    |  |       |            |          |  |
| 03/03 05:56:48 - 03/03 17:48:48 | Fixed ( 863.0, 318.0)                           | # Fixed pointing on AR 12638.         |      |       |      |     |     |                    |  |       |            |          |  |
| 03/03 17:58:48 - 03/04 06:00:18 | Fixed ( 863.0, 318.0)                           | # HOP 331 on AR 12638 (18-21UT).      |      |       |      |     |     |                    |  |       |            |          |  |
| 03/04 06:10:18 - 03/07 10:42:00 | Fixed ( 863.0, 318.0)                           | # AR 12638 on the limb.               |      |       |      |     |     |                    |  |       |            |          |  |
| Open/Ti-poly                    | Open/thick-AI                                   | 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 |  |

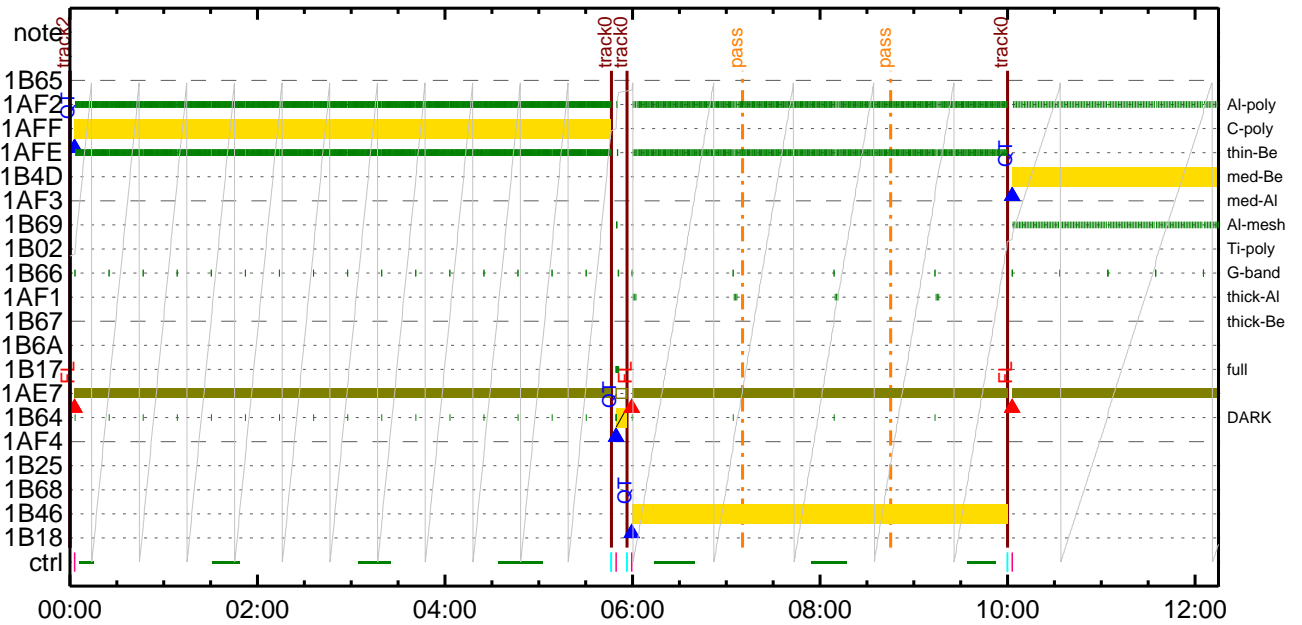
CMDI #0569 2017/03/02



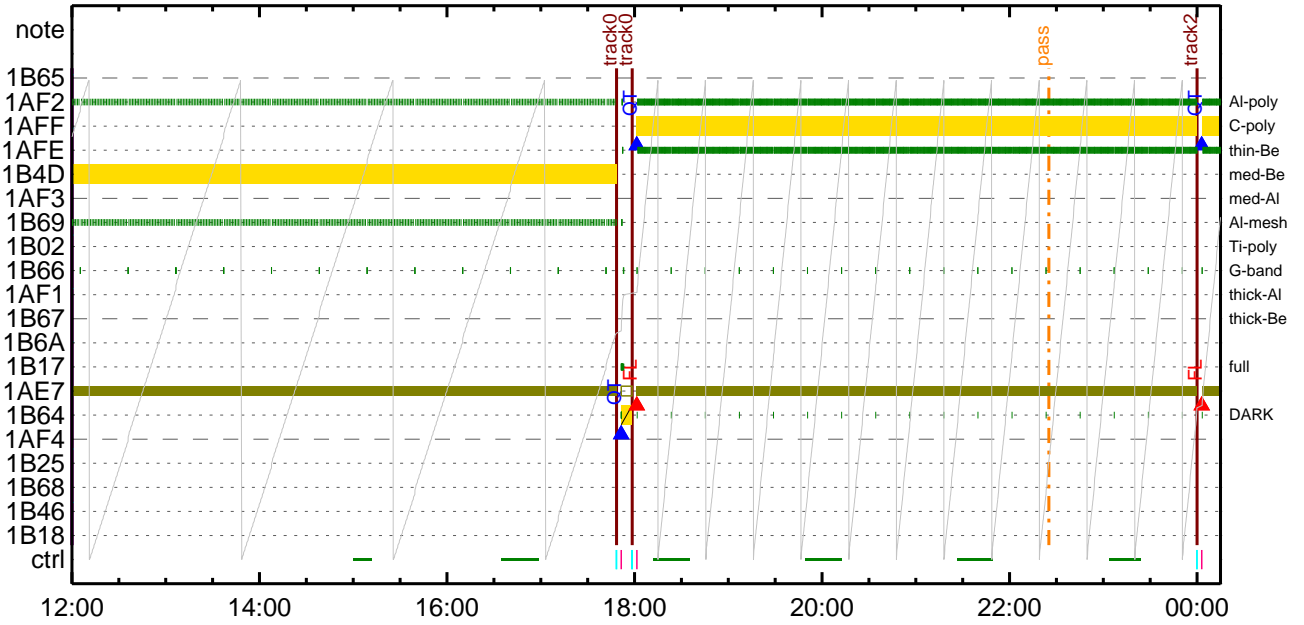
CMDI #0569 2017/03/02



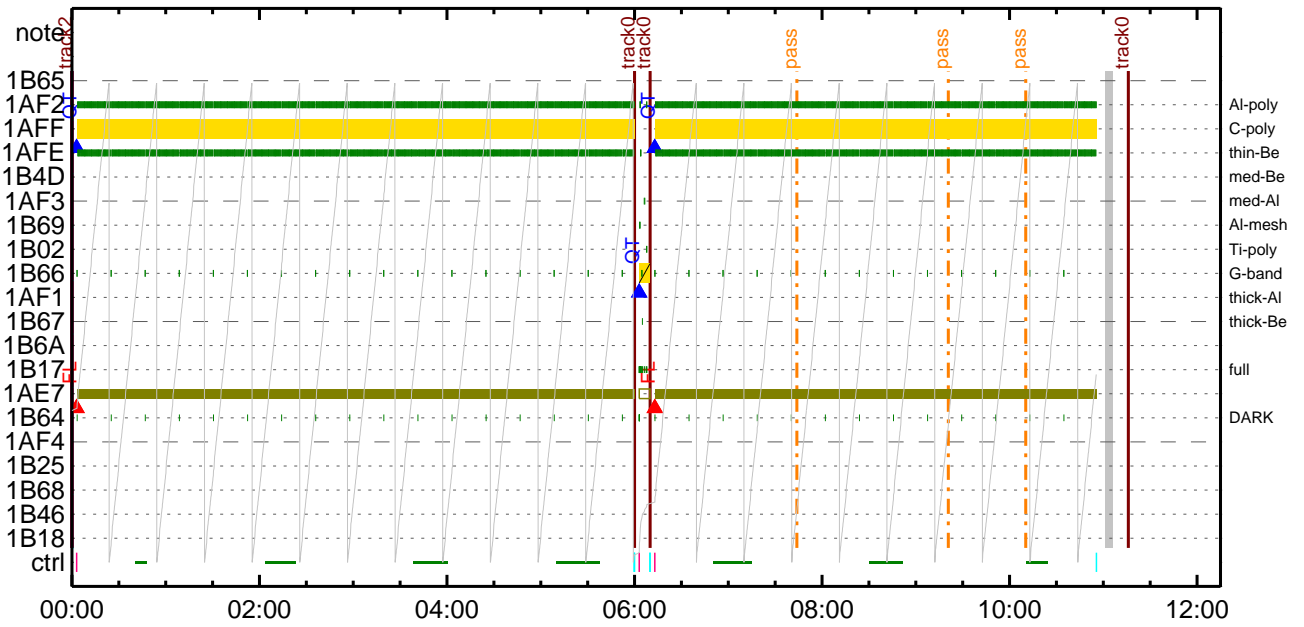
CMDI #0569 2017/03/03



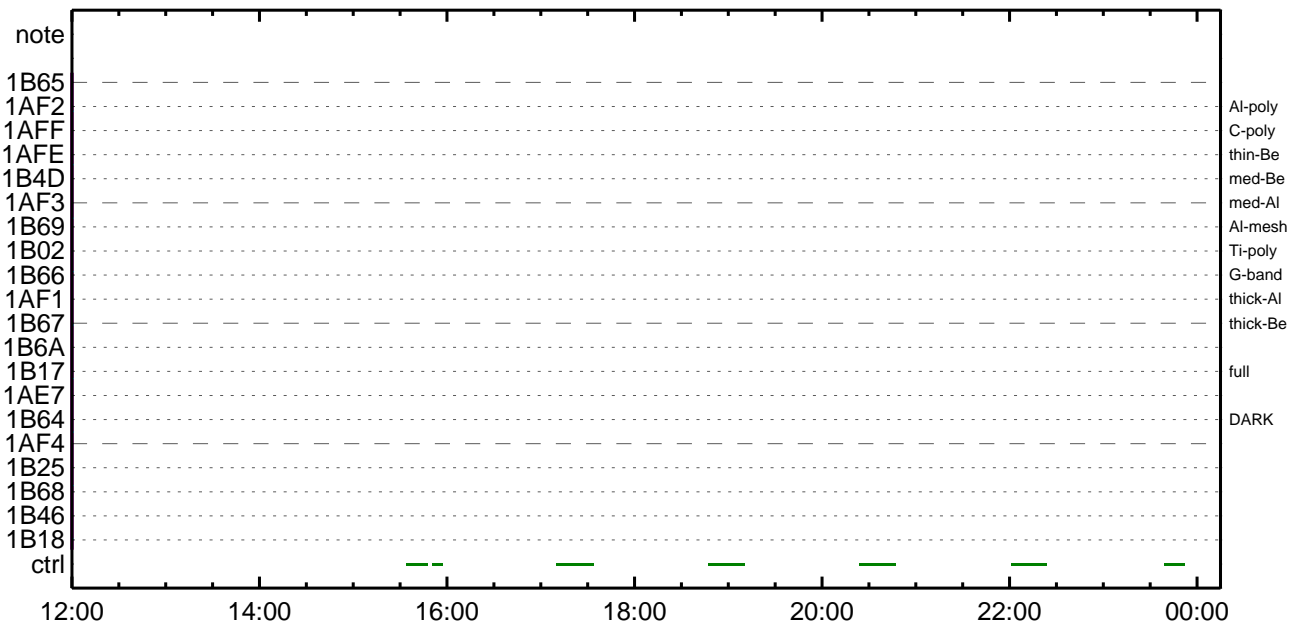
CMDI #0569 2017/03/03



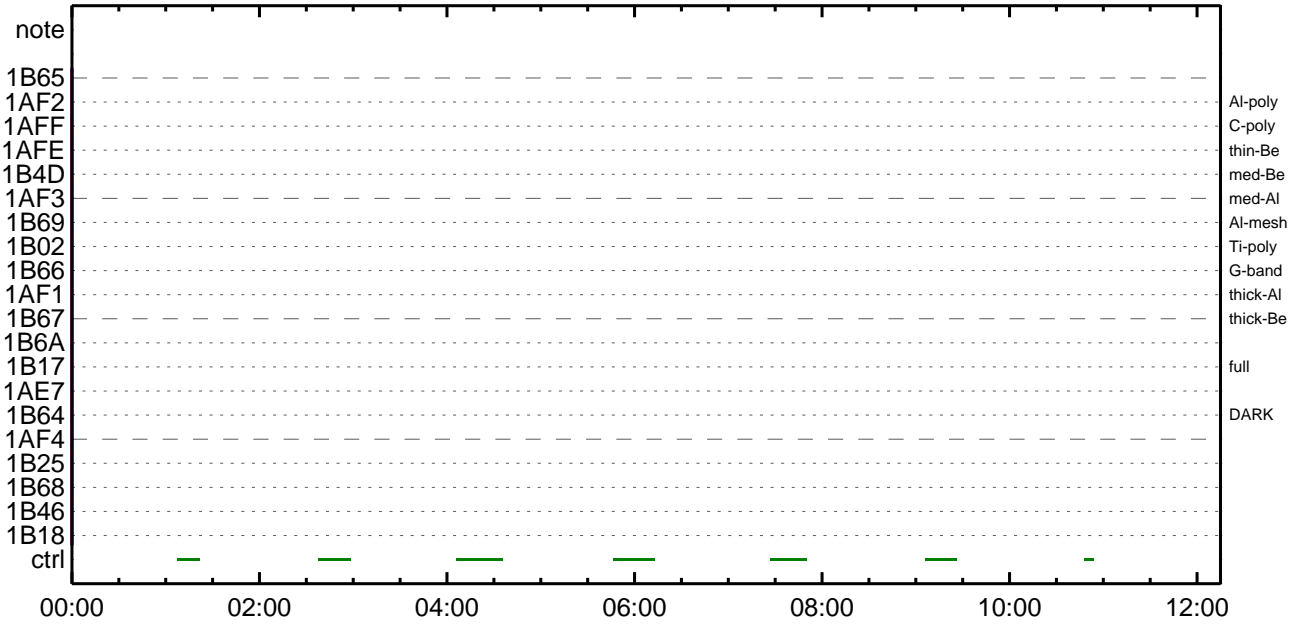
CMDI #0569 2017/03/04



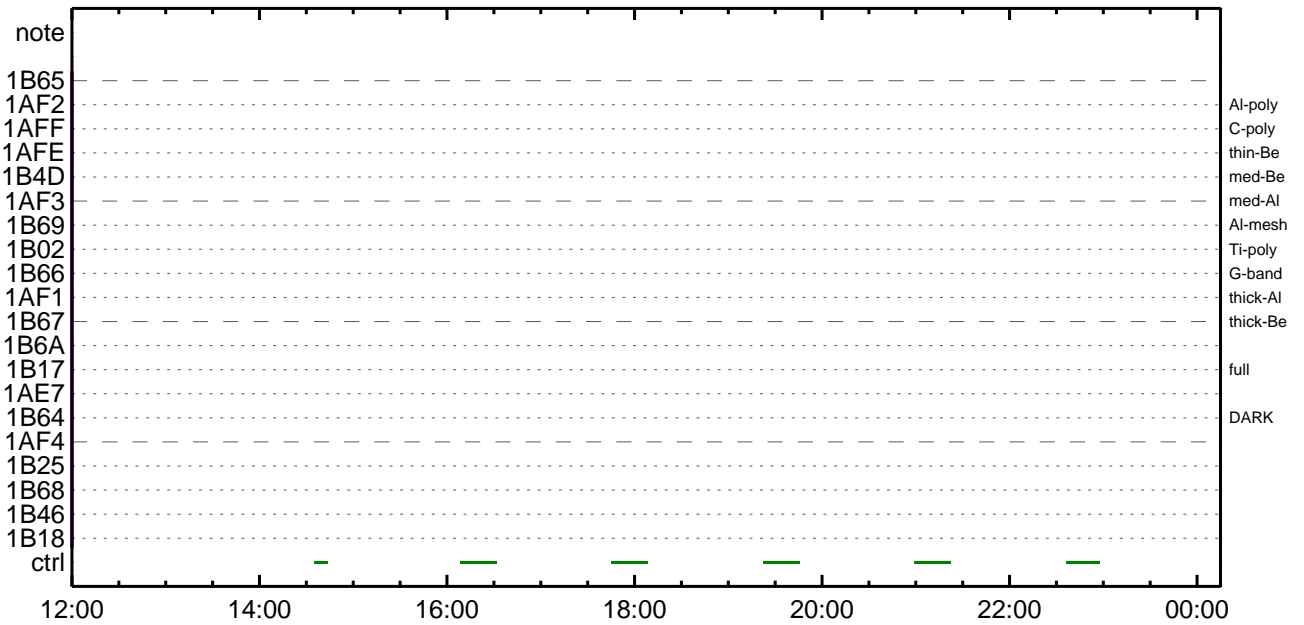
CMDI #0569 2017/03/04



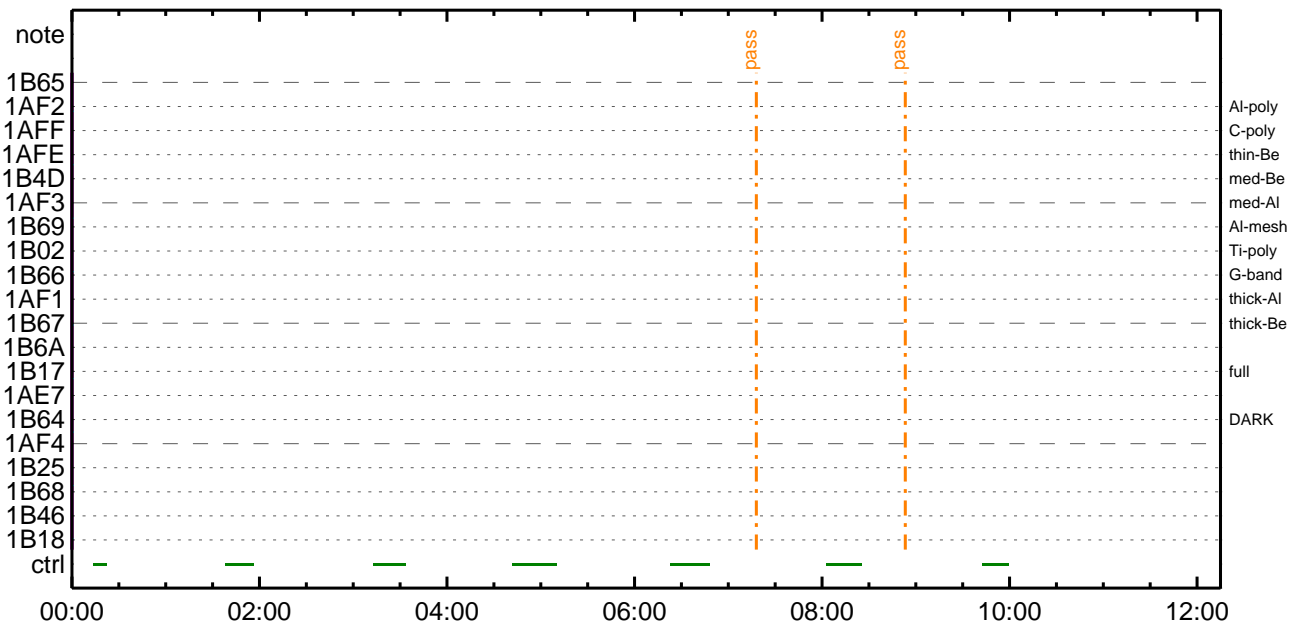
CMDI #0569 2017/03/05



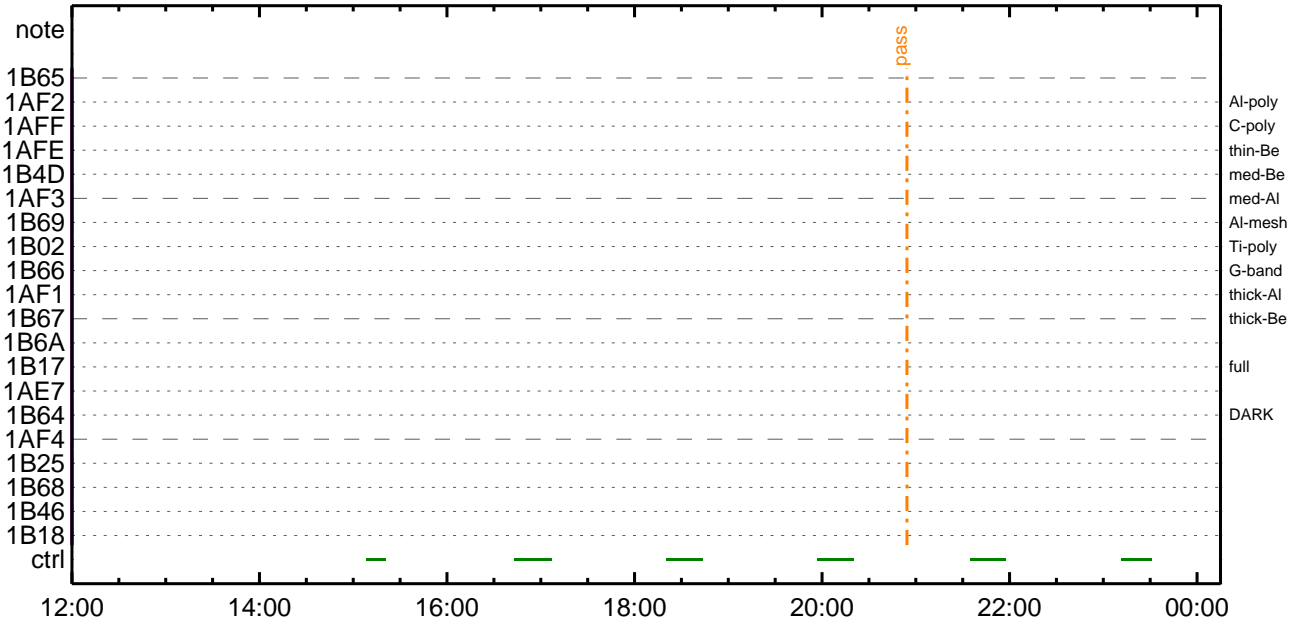
CMDI #0569 2017/03/05



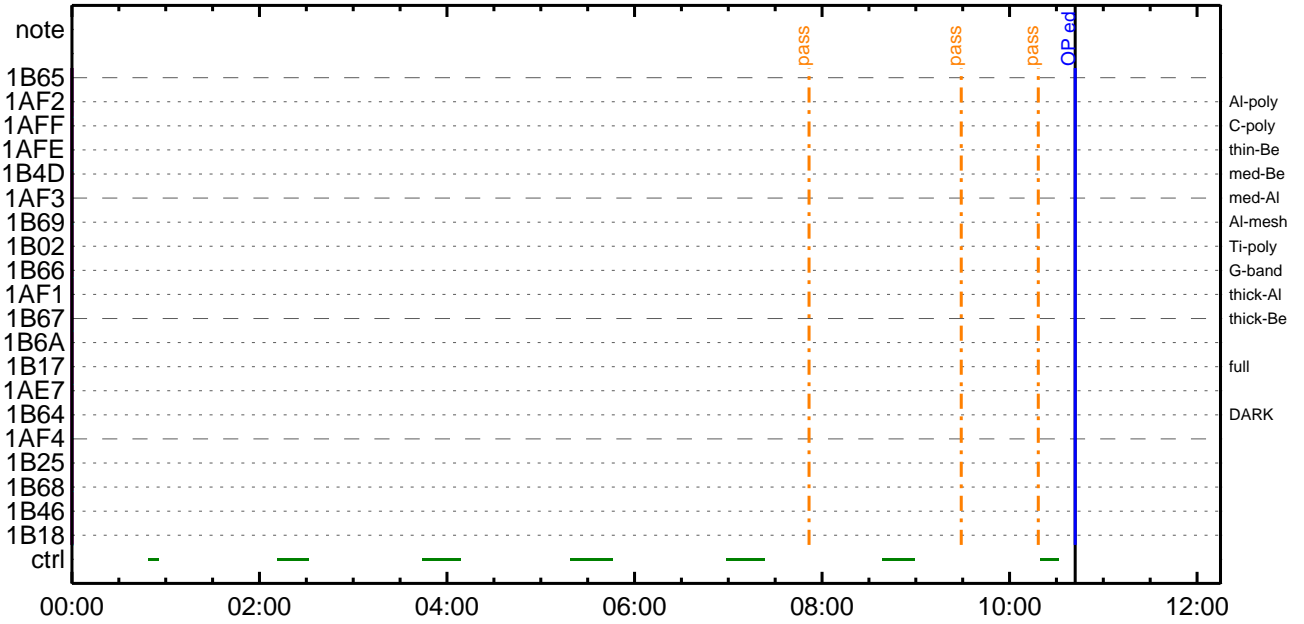
CMDI #0569 2017/03/06



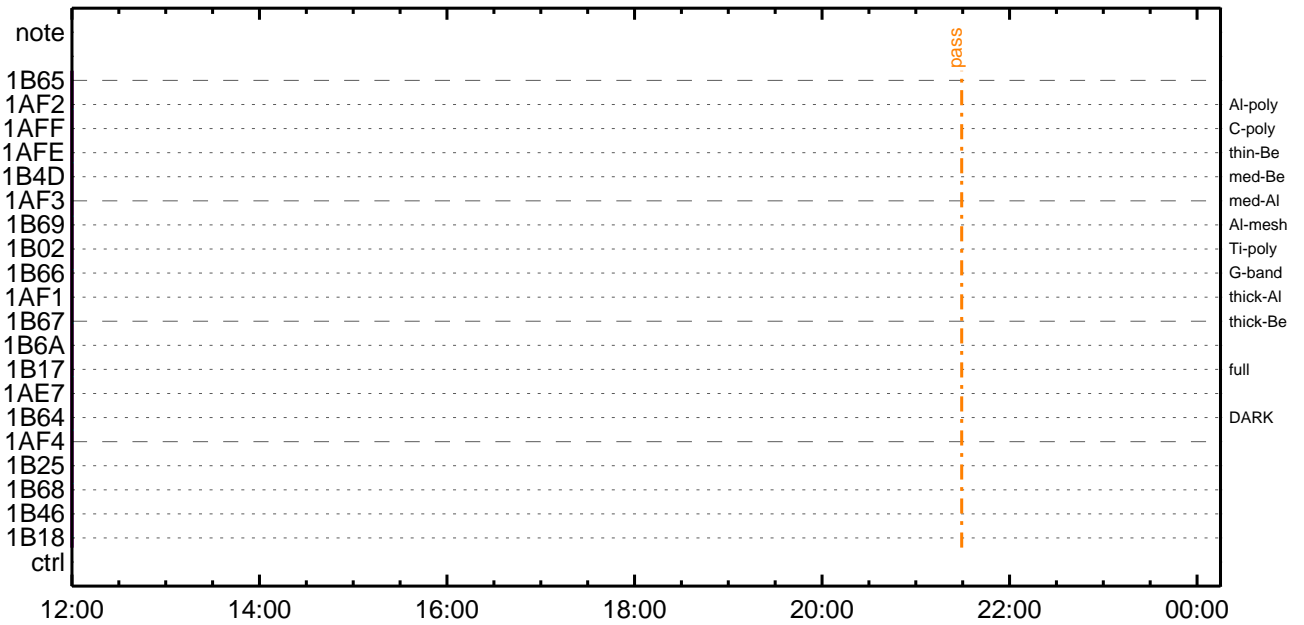
CMDI #0569 2017/03/06



CMDI #0569 2017/03/07



CMDI #0569 2017/03/07







```

0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAY6Yx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-452:OP
0104 ( )
0105 S. OG og-452:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPîî°èYAY6Yx;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAY6Yx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î¼E¹ç•è²îOKò³îÇ§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAY6Yx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î¼E¹ç•è²îOKò³îÇ§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAY6Yx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î¼E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** °E²¼òî¼Ã´¶Á°òEÉ-ò°Á÷¿@ (¼áµ-YAY6Yx½ê¼çòðÁÔÃæç¼ª°²°è¼î¹çòçðâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yi;4YE;Eòðîã¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOAD²-Á÷¿@NG²î¼î¹ç;ç°E²¼òî¼TI-CMDÁ÷¿@²î¼Á¹Ô²°²E²²²³²E;f
0180 C. ²²²¿;çSET²EEDUMPA²E±²îYÑY¹²ç¹Ô²²²³²E;f
0181 C.
0182 C. TIY³Y²Y6YÉ²òðÁDî¿(UT)
0183 +. TI 2017-03-02 10:56:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2017-03-02 10:56:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2017-03-02 10:56:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```







(a) Spacecraft Operation Procedure (real-commands)

```
main-454 2017-03-02 12:25:23 94 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÀYB;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿òÀø•µ°È»Í×ÁÇóíYçYÁY×Yí;¼YÉ;ÈÈè%µ•íÍÉ;ÈøÈ¼°ÇÒø•ø¿¼í¹çøí;çÀ®, ùø¹øèøÈøçÁ+¿®ø•øÈøøøøøÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG_____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR _____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 05 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 06 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 07 80 80 20 20)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 08 80 80 20 08)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 09 80 80 08 20)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0a 85 83 08 08)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0f 80 80 06 06)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 10 80 80 08 08)
0056 + DC 07-F0 MDP_XRT_FLD_ENA
0057 BC (d8)
0058 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0059 BC (c8)
0060 + DC 07-F0 MDP_XRT_ARS_DIS
0061 BC (d5)
0062 + DC 07-F0 MDP_XRT_AEC_RESET
0063 BC (d0)
0064 + DC 07-F0 MDP_XRT_FLD_RESET
0065 BC (da)
0066 . C. ----- Success Verify ? OK / NG _____
0067 C.
0068 C.
0069 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0070 C.
0071 +. DC 07-F0 MDP_XRT_MODE_OBSV
0072 BC (c2)
0073 +. TI 2017-03-02 11:00:02.0
0074 DC 07-F0 MDP_XRT_MODE_OBSV
0075 BC (c2)
0076 . C. ----- Success Verify ? OK / NG _____
0077 C.
0078 C. ***** XRT END *****
0079 C.
0080 . C. ***** MDP `ûÁîí»ò¼YøÈÁðø¹øèDCBC•×²è *****
0081 C. (%á°íYÓYÁYÈYbYÈYáYçYèøÈ%¼øø¼Á»Ûø¹øè)
0082 . S. DC-BC dcbc-402:DCBC
0083 (MDP_known_event)
0084 C.
0085 C.
0086 . C. ***** YDY¹.İ Daily±¿ÍÑøÈ´øø¹øèDCBC•×²è *****
0087 . S. DC-BC dcbc-153:DCBC
0088 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0089 C.
0090 C.
0091 . C. ;ãLOS¥ÁY$YÁY-¼Á»Û;ä
0092 C.
0093 . C. ***** LOS *****
0094 C.
```

Mar 02, 17 12:25

XRT\_OGLIST\_0569.chk

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

|            |            |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|
| 2017/03/02 | 11:10:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 11:10:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 11:10:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2017/03/02 | 11:11:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 03 00 00 00 00 |  |  |
| 2017/03/02 | 11:11:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2017/03/02 | 11:11:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2017/03/02 | 11:11:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2017/03/02 | 11:11:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2017/03/02 | 11:11:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2017/03/02 | 11:13:56.0 | XRT_QT_PROG_SET_407_OG [0x197]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |  |  |
| 2017/03/02 | 11:13:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |
| 2017/03/02 | 11:14:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2017/03/02 | 18:00:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 18:00:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 18:00:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2017/03/02 | 18:00:30.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2017/03/02 | 18:00:48.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |
| 2017/03/02 | 18:03:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |
| 2017/03/02 | 18:03:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2017/03/02 | 18:03:28.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 06          |  |  |
| 2017/03/02 | 18:03:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2017/03/02 | 18:10:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 18:10:26.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 18:10:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2017/03/02 | 18:10:30.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |
| 2017/03/02 | 18:10:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2017/03/02 | 18:10:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2017/03/02 | 18:10:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2017/03/02 | 18:10:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2017/03/02 | 18:10:56.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2017/03/02 | 18:13:26.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |  |  |
| 2017/03/02 | 18:13:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |
| 2017/03/02 | 18:13:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2017/03/02 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 23:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2017/03/02 | 23:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2017/03/03 | 00:00:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 00 00 00 00 |  |  |
| 2017/03/03 | 00:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2017/03/03 | 00:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2017/03/03 | 00:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2017/03/03 | 00:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2017/03/03 | 00:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2017/03/03 | 00:02:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |  |  |
| 2017/03/03 | 00:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |
| 2017/03/03 | 00:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2017/03/03 | 05:46:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |

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|            |            |                                   |                     |   |       |    |    |    |    |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|----|
| 2017/03/03 | 05:46:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 05:46:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 05:46:30.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2017/03/03 | 05:46:48.0 | XRT_FLD_DIS_406_OG [0x196]        | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2017/03/03 | 05:49:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |
| 2017/03/03 | 05:49:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |
| 2017/03/03 | 05:49:28.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2017/03/03 | 05:49:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 06 |    |    |
| 2017/03/03 | 05:56:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2017/03/03 | 05:56:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 05:56:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 05:56:30.0 | AOCS_Ore-point_Start_5_OG [0x09b] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2017/03/03 | 05:56:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 | e3 | bf | b3 |
| 2017/03/03 | 05:56:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |
| 2017/03/03 | 05:56:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |
| 2017/03/03 | 05:56:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |
| 2017/03/03 | 05:56:56.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2017/03/03 | 05:59:26.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |
| 2017/03/03 | 05:59:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 02 |    |    |
| 2017/03/03 | 05:59:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 07 |    |    |
| 2017/03/03 | 09:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2017/03/03 | 09:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 09:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 10:00:00.0 | AOCS_Ore-point_Start_6_OG [0x09c] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2017/03/03 | 10:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 | 54 | b4 | 01 |
| 2017/03/03 | 10:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |
| 2017/03/03 | 10:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |    |
| 2017/03/03 | 10:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |    |    |    |
| 2017/03/03 | 10:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2017/03/03 | 10:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |    |
| 2017/03/03 | 10:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 10 |    |    |
| 2017/03/03 | 10:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 07 |    |    |
| 2017/03/03 | 17:48:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2017/03/03 | 17:48:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 17:48:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 17:48:30.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2017/03/03 | 17:48:48.0 | XRT_FLD_DIS_406_OG [0x196]        | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2017/03/03 | 17:51:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |
| 2017/03/03 | 17:51:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |
| 2017/03/03 | 17:51:28.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2017/03/03 | 17:51:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 06 |    |    |
| 2017/03/03 | 17:58:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2017/03/03 | 17:58:26.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 17:58:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2017/03/03 | 17:58:30.0 | AOCS_Ore-point_Start_5_OG [0x09b] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2017/03/03 | 17:58:48.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 | e3 | bf | b3 |
|            |            |                                   | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |    |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2017/03/03 | 17:58:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2017/03/03 | 17:58:52.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2017/03/03 | 17:58:54.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2017/03/03 | 17:58:56.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2017/03/03 | 18:01:26.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2017/03/03 | 18:01:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |  |  |
| 2017/03/03 | 18:01:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2017/03/03 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2017/03/03 | 23:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2017/03/03 | 23:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2017/03/04 | 00:00:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 00 00 00 00 |  |  |  |  |
| 2017/03/04 | 00:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2017/03/04 | 00:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2017/03/04 | 00:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2017/03/04 | 00:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2017/03/04 | 00:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2017/03/04 | 00:02:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2017/03/04 | 00:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |  |  |
| 2017/03/04 | 00:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2017/03/04 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2017/03/04 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2017/03/04 | 05:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2017/03/04 | 06:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2017/03/04 | 06:00:18.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2017/03/04 | 06:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2017/03/04 | 06:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2017/03/04 | 06:02:58.0 | XRT_QT_PROG_SET_429_OG [0x1ad]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0c          |  |  |  |  |
| 2017/03/04 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2017/03/04 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2017/03/04 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2017/03/04 | 06:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2017/03/04 | 06:10:00.0 | AOCS_Ore-point_Start_5_OG [0x09b] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 e3 bf b3 4c |  |  |  |  |
| 2017/03/04 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2017/03/04 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2017/03/04 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2017/03/04 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2017/03/04 | 06:10:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2017/03/04 | 06:12:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2017/03/04 | 06:12:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |  |  |
| 2017/03/04 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2017/03/04 | 10:55:35.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2017/03/04 | 11:16:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |