

# XRT Timeline to be uploaded on 2016/09/24

Period: 2016/09/24 10:22:00 - 2016/09/29 10:35:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

## XOB #1B54: AR standard-B (thin-Be) with PFB, 384 FOV at 1064x1048, thin-Be, thick-Al, and Al/Poly context, With G-band (3ms/3ms VLS=CLS), 10s cad, 10s

| Term                            | Pointing (x, y)                                    | Comment                   |
|---------------------------------|--|---------------------------|
| 09/24 10:35:00 - 09/24 14:29:54 | Track ( 64.9, -382.8) <sup>Ⓢ 09/24 10:32:00</sup>  | # OP start + 10min HOP306 |
| 09/24 18:13:00 - 09/25 06:10:24 | Track ( 131.7, -381.8) <sup>Ⓢ 09/24 18:10:00</sup> | # HOP 306 AR 12597        |

**PROG= 13 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       | 2-time(s)     | 2.0sec |      |      |       |     |     |         |              |      |   |   |         |
| Seqn= 42      | 2-time(s)     | 2.0sec |      |      |       |     |     |         |              |      |   |   |         |
| 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  |
| Seqn= 65      | 75-time(s)    | 2.0sec |      |      |       |     |     |         |              |      |   |   |         |
| thin-Be/Open  | med-Be/Open   | close  | Safe | Norm | 1.41s | Obs | 1x1 | 384x384 | (1064, 1048) | Q=95 | 3 | 0 | 10.0sec |

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |
|----------------|----------------|-----|------|-------|------|-----|-----|--------------------|-------|------------|----------|
|----------------|----------------|-----|------|-------|------|-----|-----|--------------------|-------|------------|----------|

## XOB #1B25: AR - Standard Core - (Filter-Ratio with thin-Be and Med-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Med-Be context, with

| Term                            | Pointing (x, y)                                    | Comment   |
|---------------------------------|--|-----------|
| 09/24 14:33:00 - 09/24 17:59:54 | Track ( 139.7, -368.5) <sup>Ⓢ 09/24 14:30:00</sup> | # HOP 315 |

**PROG= 03 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= 48     | 1-time(s)     | 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 |
| med-Be/Open  | Open/thick-Al | close   | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 | (1064, 1048) | Q=95 | 2 | 0 | 2.0sec |
| med-Be/Open  | Open/thick-Al | close   | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 | (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Seqn= 97     | 4-time(s)     | 30.0sec |      |      |       |     |     |         |              |      |   |   |        |
| thin-Be/Open | med-Be/Open   | close   | Safe | Norm | 500ms | Obs | 1x1 | 384x384 | (1064, 1048) | Q=95 | 1 | 0 | 2.0sec |
| med-Be/Open  | Open/thick-Al | close   | Safe | Norm | 1.00s | 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 | 1 | 2.0sec |
| med-Be/Open  | Open/thick-Al | close   | Safe | Norm | 1.00s | 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 | 2 | 2.0sec |
| med-Be/Open  | Open/thick-Al | close   | Safe | Norm | 1.00s | 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 #1B14: Synoptic Q95 2x2 - Al/mesh(24/256/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(45/512/4096) + T

| Term                            | Pointing (x, y)   | Comment  |
|---------------------------------|-------------------|----------|
| 09/24 18:03:00 - 09/24 18:09:54 | Fixed ( 0.0, 0.0) | synoptic |

**PROG= 14 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= 1      | 1-time(s)        | 2.0sec |      |      |       |     |     |           |              |      |   |   |        |
| Open/Al-mesh | Open/Al-mesh     | close  | Safe | Norm | 24ms  | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh     | close  | Safe | Norm | 250ms | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh     | close  | Safe | Norm | 2.83s | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 99     | 1-time(s)        | 2.0sec |      |      |       |     |     |           |              |      |   |   |        |
| Al-poly/Open | Al-poly/Open     | close  | Safe | Norm | 44ms  | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/Open     | close  | Safe | Norm | 500ms | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/thick-Al | close  | Safe | Norm | 4.00s | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 67     | 1-time(s)        | 2.0sec |      |      |       |     |     |           |              |      |   |   |        |
| thin-Be/Open | thin-Be/Open     | close  | Safe | Norm | 177ms | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open     | close  | Safe | Norm | 2.00s | Obs | 2x2 | 2048x2048 | (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open     | close  | Safe | Norm | 11.3s | 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 #1B15: Synoptic 7 Filter w/ Al-mesh(24/256/2897), Al-poly(45/512/4096), Thin-Be(181/2048/11571) - Thick-Be(65536), Al-poly+Ti-poly(512/4096), Med-Al**

| Term                             | Pointing (x, y)        | Comment  |
|----------------------------------|------------------------|--|
| 09/25 06:13:30 - 09/25 06:20:30  | Fixed ( 0.0, 0.0)      | synoptic, shifted 10.5 min   |
| <b>PROG= 18 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= 67 1-time(s) 2.0sec</b> |                        |  |
| thin-Be/Open                     | thin-Be/Open close     | Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec           |
| thin-Be/Open                     | thin-Be/Open close     | Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec           |
| thin-Be/Open                     | thin-Be/Open close     | Safe Norm 11.3s 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 2-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           |
| <b>Seqn= 58 2-time(s) 2.0sec</b> |                        |  |
| Al-poly/Ti-poly                  | Al-poly/thick-Al close | Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| Al-poly/Ti-poly                  | Al-poly/thick-Al close | Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| <b>Seqn= 71 2-time(s) 2.0sec</b> |                        |  |
| med-Al/Open                      | med-Al/Open close      | Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec           |
| med-Al/Open                      | med-Al/Open close      | Safe Norm 32.0s 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-Al,thick-Be -384x384 + Al-poly 512**

| Term                              | Pointing (x, y)                         | Comment  |
|-----------------------------------|---|--|
| 09/24 10:35:00 - 09/24 14:29:54   | Track ( 64.9, -382.8) @ 09/24 10:32:00  | # OP start + 10min HOP306  |
| 09/24 14:33:00 - 09/24 17:59:54   | Track ( 139.7, -368.5) @ 09/24 14:30:00 | # HOP 315  |
| 09/24 18:13:00 - 09/25 06:10:24   | Track ( 131.7, -381.8) @ 09/24 18:10:00 | # HOP 306 AR 12597   |
| <b>PROG= 07 30-time(s)</b>        |   |  |
| <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 |

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**Active Region Search**

\* \* \* \* \*

NOT USED

\* \* \* \* \*

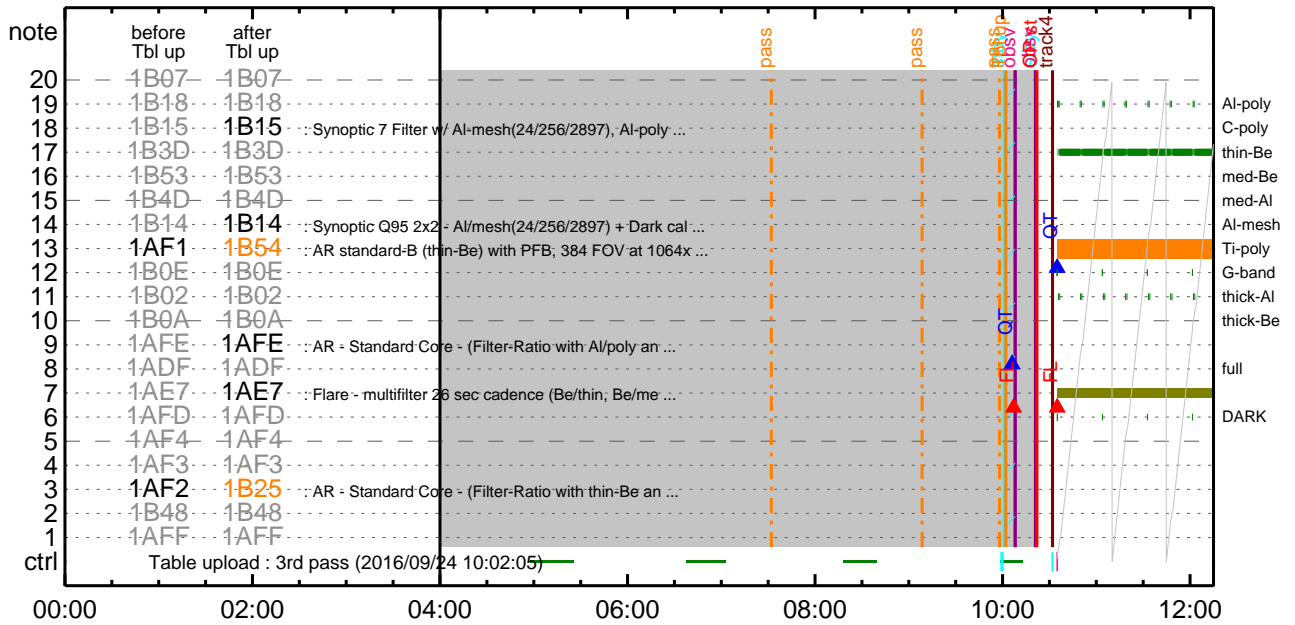
**Flare Detection**

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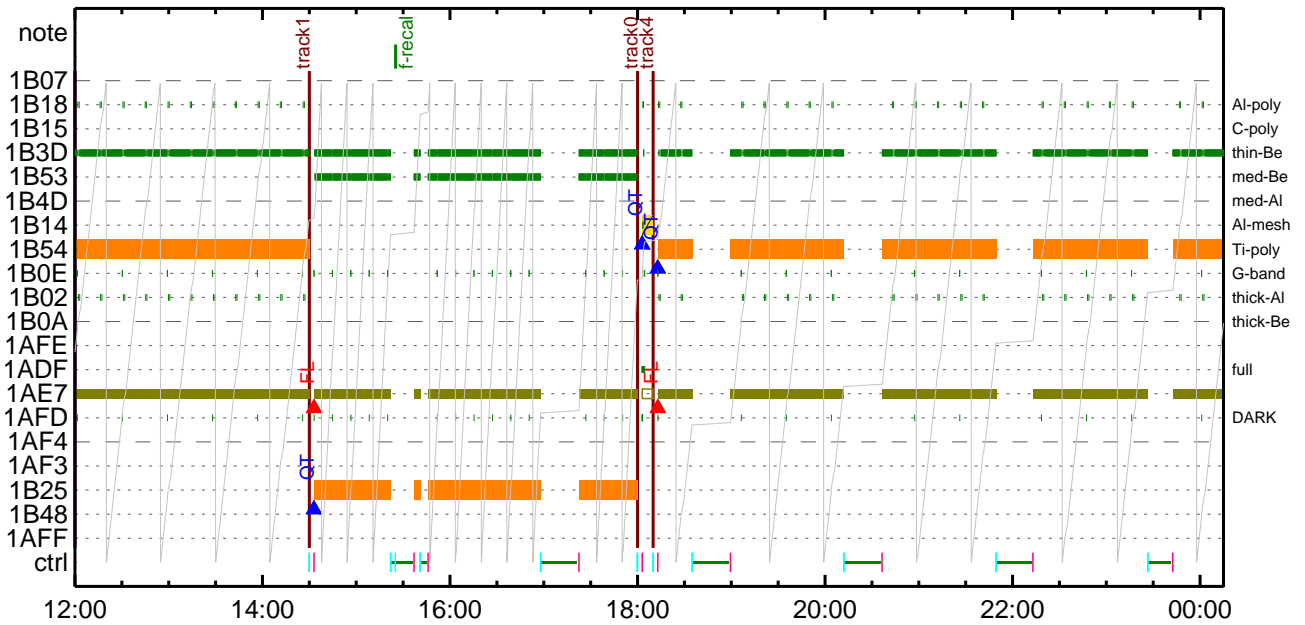
**FLD Patrol**

| Term                            | Pointing (x, y)                         | Comment  |
|---------------------------------|---|--|
| 09/24 10:32:18 - 09/24 18:00:18 | Track ( 64.9, -382.8) @ 09/24 10:32:00  | # OP start + 10min HOP306  |
| 09/24 18:10:18 - 09/25 06:10:48 | Track ( 131.7, -381.8) @ 09/24 18:10:00 | # HOP 306 AR 12597   |
| Open/Ti-poly                    | Open/thick-Al close                     | Safe Norm 8ms Obs 8x8 Q=50 80sec   |
| Default Filter                  | Thicker Filter                          | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

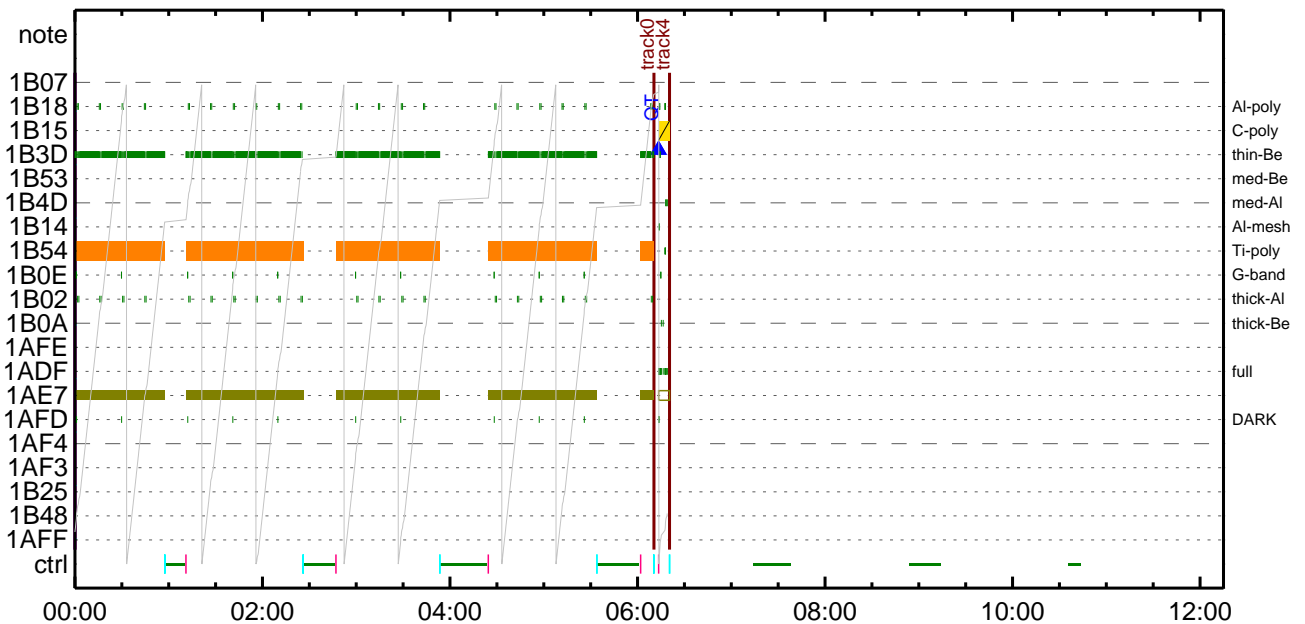
### CMDI #0202 2016/09/24



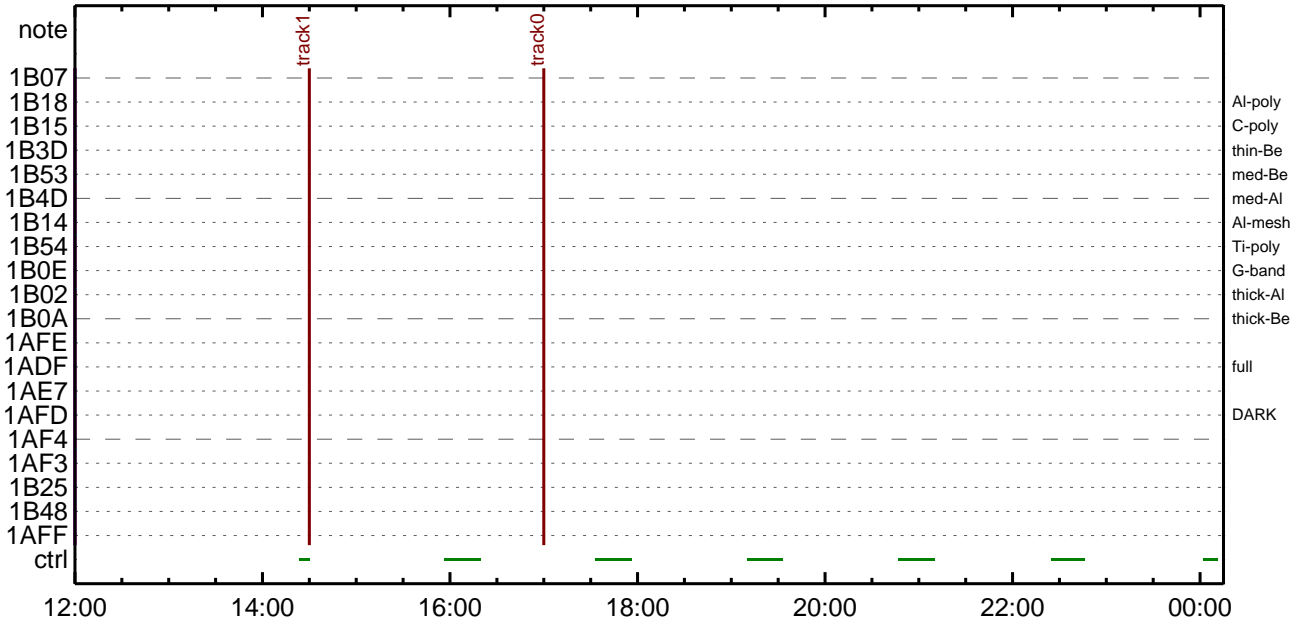
### CMDI #0202 2016/09/24



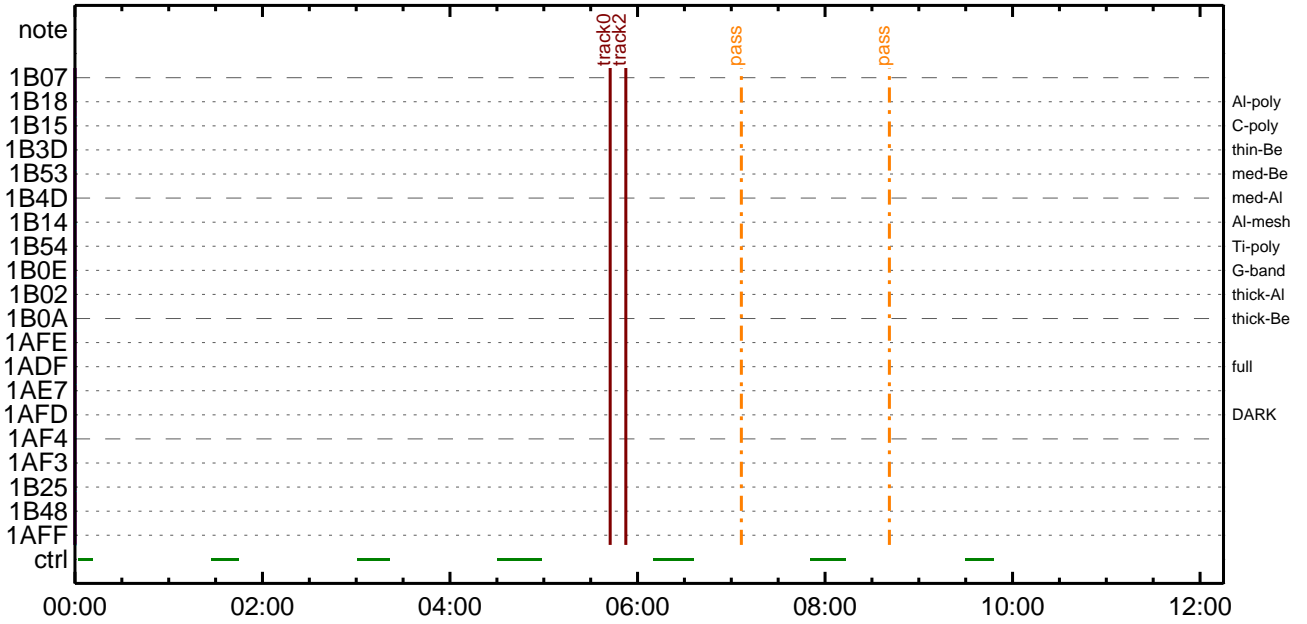
### CMDI #0202 2016/09/25



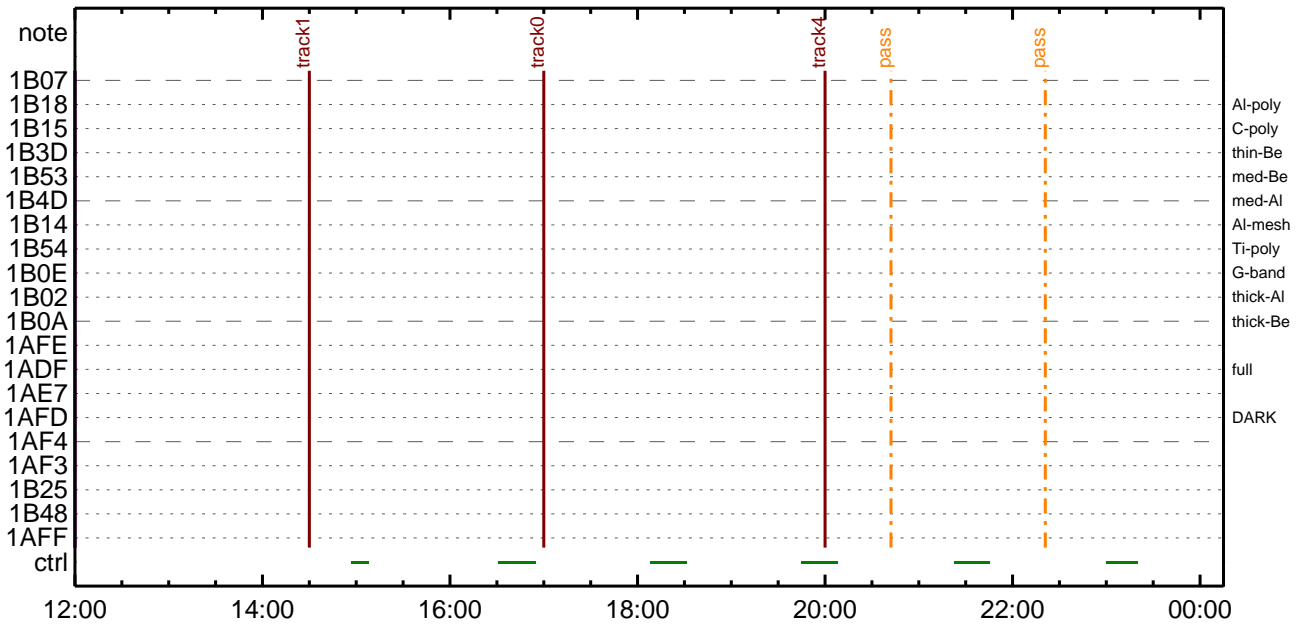
CMDI #0202 2016/09/25



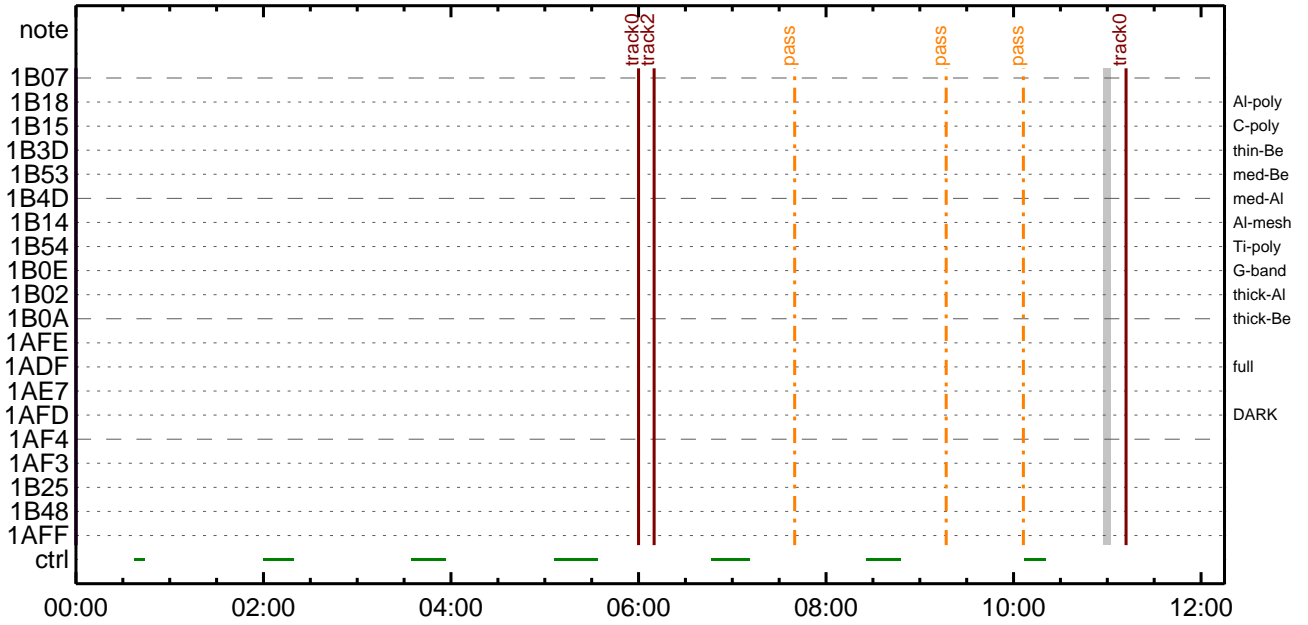
CMDI #0202 2016/09/26



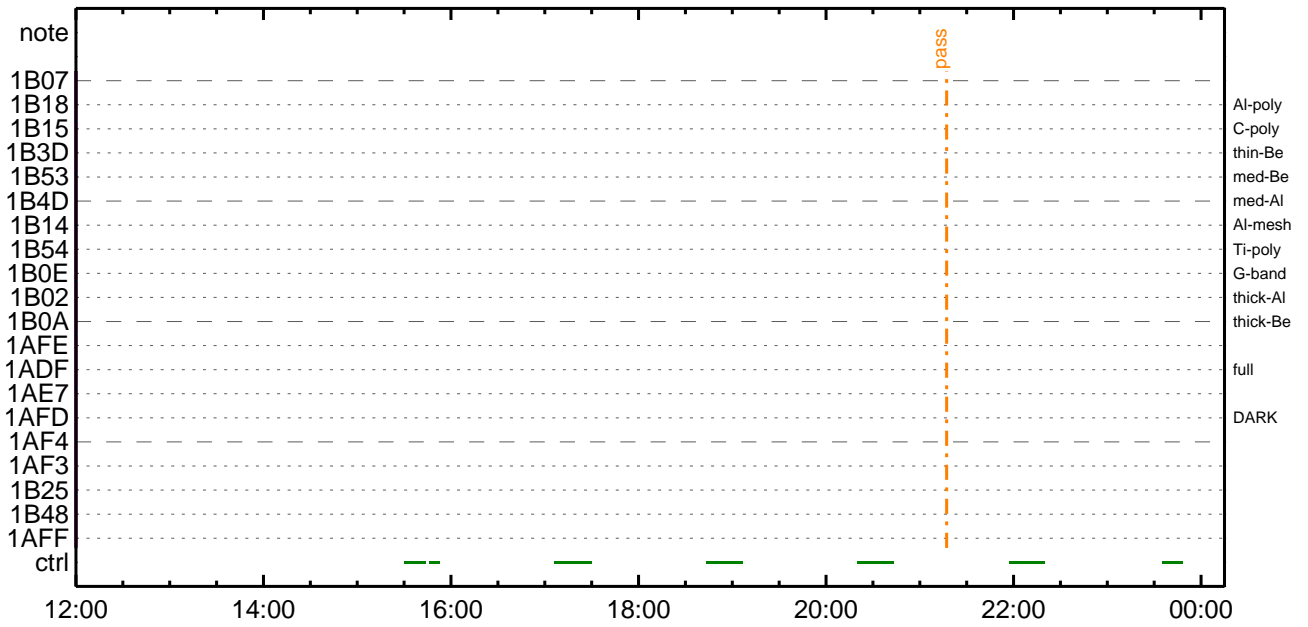
CMDI #0202 2016/09/26



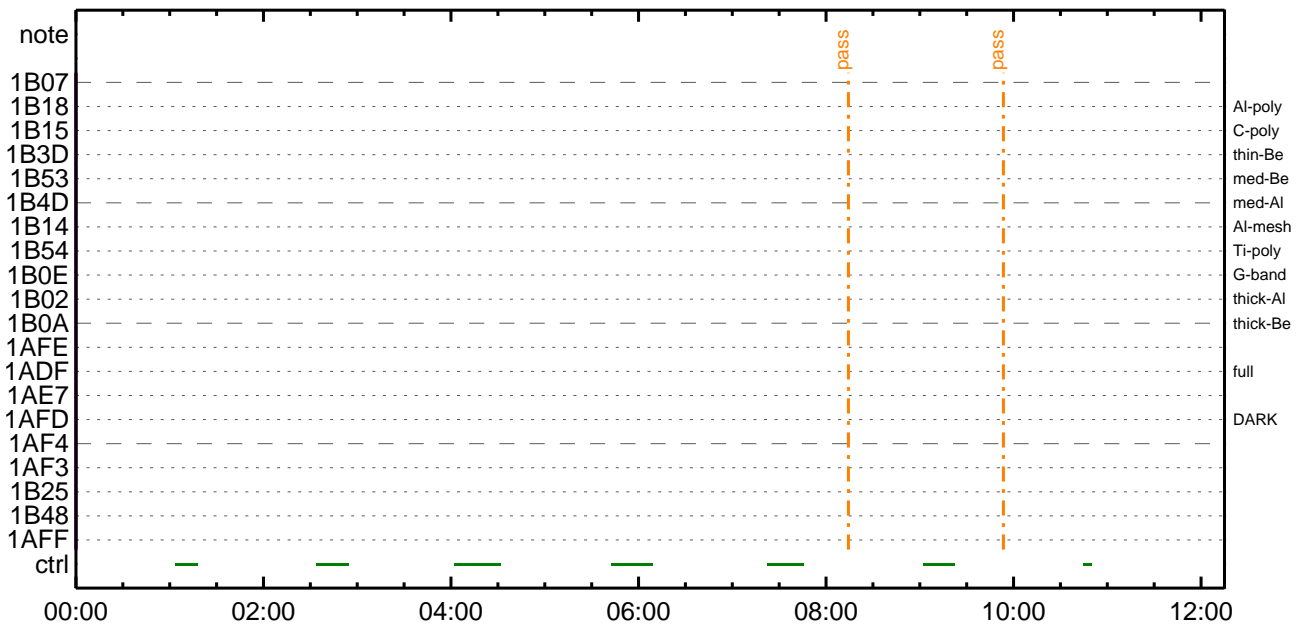
CMDI #0202 2016/09/27



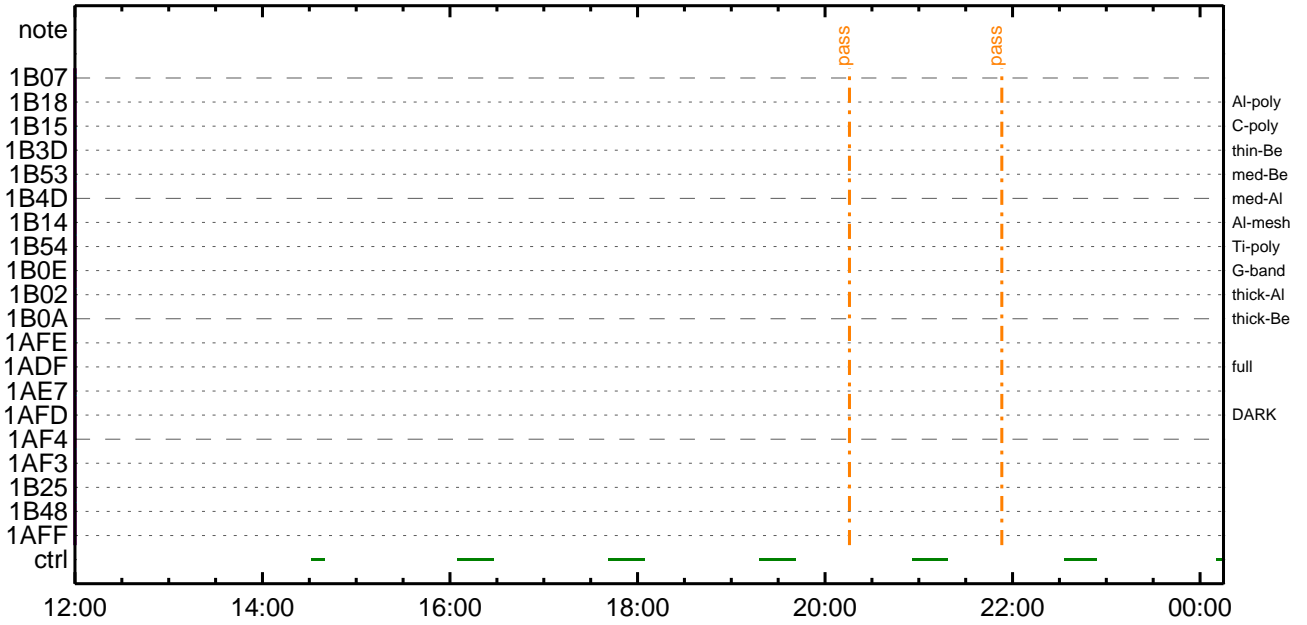
CMDI #0202 2016/09/27



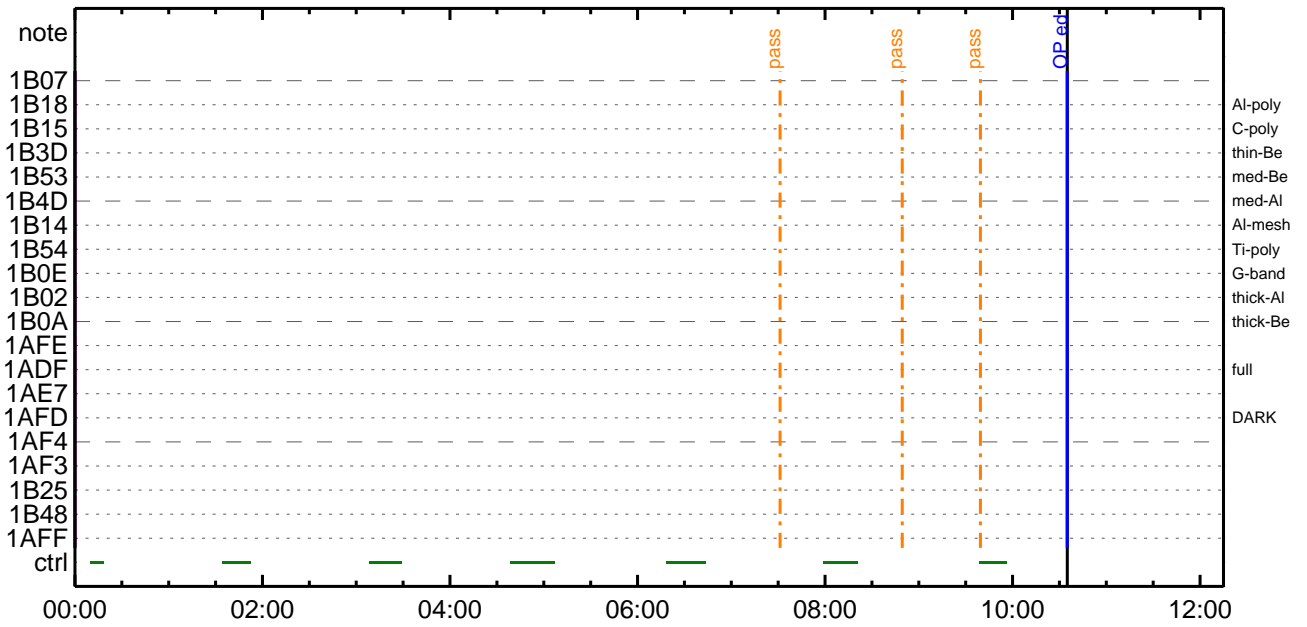
CMDI #0202 2016/09/28



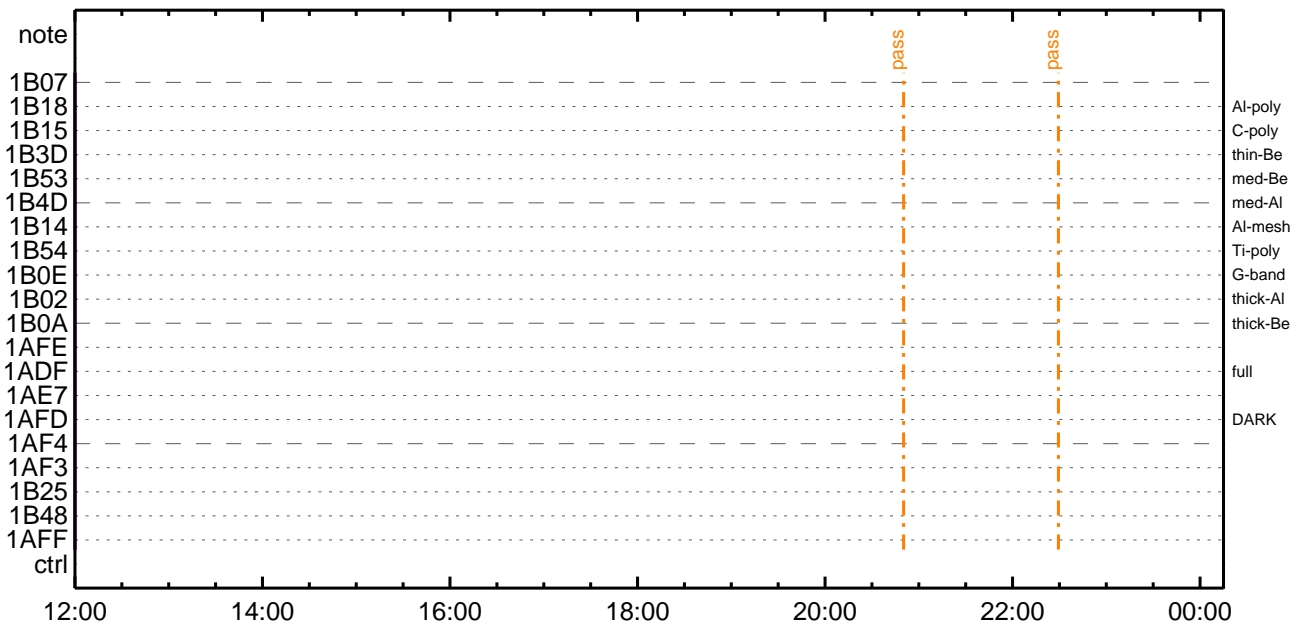
CMDI #0202 2016/09/28



CMDI #0202 2016/09/29



CMDI #0202 2016/09/29





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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOX
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-134:OP
0104 ( )
0105 S. OG og-134:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYOX;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. YAYOXx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î½E¹ç•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. YAYOXx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î½E¹ç•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. YAYOXx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î½E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** °E²¼òî½Ä´¶Á°òEÉ¬ò°Á÷¿@ (¼âµ-YAYOXx½ê½çòðÁÓÆòÇ¼ª°¬òE¼î¹çòçòâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yî;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÷¿@NG²î½î¹ç;ç°E²¼òîTI-CMDÁ÷¿@²î½Á¹Ôª°¬E²ò³òE;f
0180 C. ²ò³òE;çSET²EEDUMP²î½±°îYNY¹ç¹Ôª|²³òE;f
0181 C.
0182 C. TIY³Y½Y½E²òðÁDî¿(UT)
0183 +. TI 2016-09-24 10:17:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2016-09-24 10:17:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2016-09-24 10:17:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```











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0096 C. -----
0097 C. MDP_OBS_S verify = OK/NG [ ]
0098 C. -----
0099 C.
0100 C. *****
0101 C. SOT TI command set
0102 C. *****
0103 C. Execute, after the success of TBL upload.
0104 +. TI 2016-09-24 10:21:18.0
0105 DC 07-F0 MDP_SOT_MODE_OBSV
0106 BC (40)
0107 . C. -----
0108 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0109 C. -----
0110 C.
0111 C.
0112 . C. ***** MDP `uAÎaî»ö¼YøEÄÐa¹æDCBC•x²è *****
0113 C. (¼ã°îYÓYÄYÈYÞYÈYáYçYèaE¼¼a¼A»Üa¹æè)
0114 . S. DC-BC dcbc-402:DCBC
0115 (MDP_known_event)
0116 C.
0117 C.
0118 . C. ***** YD¥¹•İ Daily±;İÑaE'Øa¹æDCBC•x²è *****
0119 . S. DC-BC dcbc-153:DCBC
0120 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0121 C.
0122 C.
0123 . C. ;ãLOS¥Á¥S¥Ä¥-¼A»Ü;ã
0124 C.
0125 . C. ***** LOS *****
0126 C.
```

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

|            |            |                                      |   |       |                |  |  |
|------------|------------|--------------------------------------|---|-------|----------------|--|--|
| 2016/09/24 | 10:31:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 10:31:56.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 10:31:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]    |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2016/09/24 | 10:32:00.0 | AOCS_Ore-point_Start_1_OG [0x097]    |   |       |                |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 04 00 00 00 00 |  |  |
| 2016/09/24 | 10:32:18.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |  |  |
| 2016/09/24 | 10:32:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |  |  |
| 2016/09/24 | 10:32:22.0 | XRT_AEC_RESET_448_OG [0x1c0]         |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0             |  |  |
| 2016/09/24 | 10:32:24.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |
| 2016/09/24 | 10:32:26.0 | XRT_FLD_RESET_433_OG [0x1b1]         |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |
| 2016/09/24 | 10:34:56.0 | XRT_QT_PROG_SET_401_OG [0x191]       |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 0d          |  |  |
| 2016/09/24 | 10:34:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]       |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 07          |  |  |
| 2016/09/24 | 10:35:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2016/09/24 | 14:29:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 14:29:56.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 14:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a]    |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2016/09/24 | 14:30:00.0 | AOCS_Ore-point_Start_2_OG [0x098]    |   |       |                |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 01 00 00 00 00 |  |  |
| 2016/09/24 | 14:30:18.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |  |  |
| 2016/09/24 | 14:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |  |  |
| 2016/09/24 | 14:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0]         |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0             |  |  |
| 2016/09/24 | 14:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |
| 2016/09/24 | 14:30:26.0 | XRT_FLD_RESET_433_OG [0x1b1]         |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |
| 2016/09/24 | 14:32:56.0 | XRT_QT_PROG_SET_407_OG [0x197]       |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 03          |  |  |
| 2016/09/24 | 14:32:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]       |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 07          |  |  |
| 2016/09/24 | 14:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2016/09/24 | 15:22:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 15:22:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 15:22:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |
| 2016/09/24 | 15:22:06.0 | XRT_PREFLR_STRT_414_OG [0x19e]       |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |
| 2016/09/24 | 15:25:00.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 15:25:10.0 | XRT_FOCUS_RECALIBRATE_416_OG [0x1a0] |   |       |                |  |  |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |  |  |
| 2016/09/24 | 15:25:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |
| 2016/09/24 | 15:29:10.0 | XRT_FOCUS_POSITION_410_OG [0x19a]    |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2016/09/24 | 15:36:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |
| 2016/09/24 | 15:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2016/09/24 | 15:41:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 15:41:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 15:41:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |
| 2016/09/24 | 15:41:06.0 | XRT_PREFLR_STRT_414_OG [0x19e]       |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |
| 2016/09/24 | 15:44:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |
| 2016/09/24 | 15:45:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |
| 2016/09/24 | 15:46:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2016/09/24 | 16:58:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 16:58:02.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2016/09/24 | 16:58:04.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |
| 2016/09/24 | 16:58:06.0 | XRT_PREFLR_STRT_414_OG [0x19e]       |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8             |  |  |
| 2016/09/24 | 17:01:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9             |  |  |
| 2016/09/24 | 17:21:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |                |  |  |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2016/09/24 | 17:22:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2016/09/24 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 17:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2016/09/24 | 18:00:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2016/09/24 | 18:00:18.0 | XRT_FLD_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2016/09/24 | 18:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2016/09/24 | 18:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2016/09/24 | 18:02:58.0 | XRT_QT_PROG_SET_417_OG [0x1a1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0e          |  |  |  |  |
| 2016/09/24 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2016/09/24 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 18:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2016/09/24 | 18:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 00 00 00 00 |  |  |  |  |
| 2016/09/24 | 18:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2016/09/24 | 18:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2016/09/24 | 18:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2016/09/24 | 18:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2016/09/24 | 18:10:26.0 | XRT_FLD_RESET_433_OG [0x1b1]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2016/09/24 | 18:12:56.0 | XRT_QT_PROG_SET_401_OG [0x191]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |  |  |  |  |
| 2016/09/24 | 18:12:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 07          |  |  |  |  |
| 2016/09/24 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2016/09/24 | 18:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 18:35:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 18:35:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2016/09/24 | 18:35:06.0 | XRT_PREFLR_STRT_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2016/09/24 | 18:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2016/09/24 | 18:58:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2016/09/24 | 18:59:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2016/09/24 | 20:12:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 20:12:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 20:12:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2016/09/24 | 20:12:06.0 | XRT_PREFLR_STRT_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2016/09/24 | 20:15:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2016/09/24 | 20:35:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2016/09/24 | 20:36:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2016/09/24 | 21:49:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 21:49:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 21:49:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2016/09/24 | 21:49:36.0 | XRT_PREFLR_STRT_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2016/09/24 | 21:52:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2016/09/24 | 22:12:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2016/09/24 | 22:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2016/09/24 | 23:26:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 23:26:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2016/09/24 | 23:26:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2016/09/24 | 23:26:36.0 | XRT_PREFLR_STRT_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2016/09/24 | 23:29:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |

|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2016/09/24 | 23:41:30.0 | XRT_Custom_430_OG [0x1ae]               |   |       |                |
| 2016/09/24 | 23:42:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |
| 2016/09/25 | 00:57:30.0 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 00:57:32.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 00:57:34.0 | XRT_FLD_RESET_415_OG [0x19f]            |   |       |                |
|            |            | MDP_XRT_FLD_RESET                       | 1 | 07-F0 | da             |
| 2016/09/25 | 00:57:36.0 | XRT_PREFLR_STRT_414_OG [0x19e]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                     | 1 | 07-F0 | e8             |
| 2016/09/25 | 01:00:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                     | 1 | 07-F0 | e9             |
| 2016/09/25 | 01:10:00.0 | XRT_Custom_430_OG [0x1ae]               |   |       |                |
| 2016/09/25 | 01:11:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |
| 2016/09/25 | 02:26:00.0 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 02:26:02.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 02:26:04.0 | XRT_FLD_RESET_415_OG [0x19f]            |   |       |                |
|            |            | MDP_XRT_FLD_RESET                       | 1 | 07-F0 | da             |
| 2016/09/25 | 02:26:06.0 | XRT_PREFLR_STRT_414_OG [0x19e]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                     | 1 | 07-F0 | e8             |
| 2016/09/25 | 02:29:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                     | 1 | 07-F0 | e9             |
| 2016/09/25 | 02:46:00.0 | XRT_Custom_430_OG [0x1ae]               |   |       |                |
| 2016/09/25 | 02:47:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |
| 2016/09/25 | 03:53:30.0 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 03:53:32.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 03:53:34.0 | XRT_FLD_RESET_415_OG [0x19f]            |   |       |                |
|            |            | MDP_XRT_FLD_RESET                       | 1 | 07-F0 | da             |
| 2016/09/25 | 03:53:36.0 | XRT_PREFLR_STRT_414_OG [0x19e]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                     | 1 | 07-F0 | e8             |
| 2016/09/25 | 03:56:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                     | 1 | 07-F0 | e9             |
| 2016/09/25 | 04:23:30.0 | XRT_Custom_430_OG [0x1ae]               |   |       |                |
| 2016/09/25 | 04:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |
| 2016/09/25 | 05:34:00.0 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 05:34:02.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 05:34:04.0 | XRT_FLD_RESET_415_OG [0x19f]            |   |       |                |
|            |            | MDP_XRT_FLD_RESET                       | 1 | 07-F0 | da             |
| 2016/09/25 | 05:34:06.0 | XRT_PREFLR_STRT_414_OG [0x19e]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                     | 1 | 07-F0 | e8             |
| 2016/09/25 | 05:37:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                     | 1 | 07-F0 | e9             |
| 2016/09/25 | 06:01:00.0 | XRT_Custom_430_OG [0x1ae]               |   |       |                |
| 2016/09/25 | 06:02:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |
| 2016/09/25 | 06:10:24.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 06:10:26.0 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 06:10:28.0 | XRT_FOCUS_POSITION_403_OG [0x193]       |   |       |                |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 ff aa 00    |
| 2016/09/25 | 06:10:30.0 | AOCS_Ore-point_Start_3_OG [0x099]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00 00 |
| 2016/09/25 | 06:10:48.0 | XRT_FLD_DIS_406_OG [0x196]              |   |       |                |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 | d9             |
| 2016/09/25 | 06:13:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]          |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 | c9             |
| 2016/09/25 | 06:13:26.0 | XRT_ARS_DIS_423_OG [0x1a7]              |   |       |                |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 | d5             |
| 2016/09/25 | 06:13:28.0 | XRT_QT_PROG_SET_442_OG [0x1ba]          |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 | c4 12          |
| 2016/09/25 | 06:13:30.0 | XRT_CTRL_AUTO_408_OG [0x198]            |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 | c0             |
| 2016/09/25 | 06:20:30.0 | AOCS_Ore-point_Start_1_OG [0x097]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 04 00 00 00 00 |
| 2016/09/25 | 06:20:30.5 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 06:20:32.5 | XRT_CTRL_MANU_402_OG [0x192]            |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 | c1             |
| 2016/09/25 | 06:22:00.0 | XRT_TCIB_XRT_S_HTR_A_ENA_441_OG [0x1b9] |   |       |                |
|            |            | TCIB_XRT_S_HTR_A_ENA                    | 0 | 04-BC |                |
| 2016/09/25 | 14:30:00.0 | AOCS_Ore-point_Start_2_OG [0x098]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 01 00 00 00 00 |
| 2016/09/25 | 17:00:00.0 | AOCS_Ore-point_Start_4_OG [0x09a]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 fc cd af 1b |
| 2016/09/26 | 05:42:30.0 | AOCS_Ore-point_Start_3_OG [0x099]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 00 00 00 00 |
| 2016/09/26 | 05:52:30.0 | AOCS_Ore-point_Start_5_OG [0x09b]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 02 00 00 00 00 |
| 2016/09/26 | 14:30:00.0 | AOCS_Ore-point_Start_2_OG [0x098]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 01 00 00 00 00 |
| 2016/09/26 | 17:00:00.0 | AOCS_Ore-point_Start_6_OG [0x09c]       |   |       |                |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 f2 1d 53 df |



