# XRT Timeline to be uploaded on 2017/11/18

Period: 2017/11/18 10:35:00 - 2017/11/28 10:29:00

✲ ✲ ✲ ✲ ✲ **Normal mode** ✲ ✲ ✲ ✲ ✲

**XOB #1B94: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 180s cad (G-band/Leak first)**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/18 10:55:00 - 11/18 11:24:54 | Fixed ( -20.0, -976.0) | # OP start + 10min. HOP 79 (N-S scan). 1/20. |
| 11/18 11:28:00 - 11/18 11:54:54 | Fixed ( -20.0, -876.0) | # 2/20. |
| 11/18 11:58:00 - 11/18 12:24:54 | Fixed ( -20.0, -776.0) | # 3/20. |
| 11/18 12:28:00 - 11/18 12:54:54 | Fixed ( -20.0, -676.0) | # 4/20. |
| 11/18 18:11:00 - 11/18 18:37:54 | Fixed ( -20.0, 114.0) | # 12/20. |
| 11/18 18:41:00 - 11/18 19:20:30 | Fixed ( -20.0, 214.0) | # 13/20. |
| 11/18 19:48:00 - 11/18 20:14:54 | Fixed ( -20.0, 314.0) | # 14/20. |
| 11/18 20:18:00 - 11/18 20:57:30 | Fixed ( -20.0, 414.0) | # 15/20. |
| 11/18 21:25:00 - 11/18 21:51:54 | Fixed ( -20.0, 514.0) | # 16/20. |
| 11/18 21:55:00 - 11/18 22:35:00 | Fixed ( -20.0, 614.0) | # 17/20. |
| 11/18 23:00:30 - 11/18 23:27:24 | Fixed ( -20.0, 714.0) | # 18/20. |
| 11/18 23:30:30 - 11/19 00:12:30 | Fixed ( -20.0, 814.0) | # 19/20. |
| 11/19 00:26:00 - 11/19 00:54:54 | Fixed ( -20.0, 914.0) | # 20/20. |

**PROG= 02 Inf.-time(s)**

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 30 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 512x512 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

- **Subr= 2 20-time(s) 180.0sec**
  - **Seqn= 8 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM | 2 | 0 | 2.0sec |

  - **Seqn= 6 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM | 2 | 0 | 2.0sec |

**XOB #1B95: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 90s cad (G-band/Leak first)**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/18 12:58:00 - 11/18 13:24:54 | Fixed ( -20.0, -576.0) | # 5/20. |
| 11/18 13:28:00 - 11/18 13:54:54 | Fixed ( -20.0, -476.0) | # 6/20. |
| 11/18 13:58:00 - 11/18 14:34:00 | Fixed ( -20.0, -376.0) | # 7/20. |
| 11/18 14:45:00 - 11/18 15:11:54 | Fixed ( -20.0, -276.0) | # 8/20. |
| 11/18 15:15:00 - 11/18 16:07:00 | Fixed ( -20.0, -176.0) | # 9/20. |
| 11/18 16:34:30 - 11/18 17:01:24 | Fixed ( -20.0, -76.0) | # 10/20. |

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

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 30 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 512x512 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

- **Subr= 2 40-time(s) 90.0sec**
  - **Seqn= 8 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM | 2 | 0 | 2.0sec |

  - **Seqn= 6 1-time(s) 2.0sec**

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM | 2 | 0 | 2.0sec |

**XOB #1BA8: 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(256/5795), Med-Al**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/18 17:04:30 - 11/18 17:11:30 | Fixed ( -20.0, 14.0) | # 11/20 + XRT synoptic. |

**PROG= 05 1-time(s)**

- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 5 1-time(s) 2.0sec**

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

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

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

| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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= 23 1-time(s) 4.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| **Subr= 2 1-time(s) 2.0sec** | | | | | | | | | | | | |
| **Seqn= 46 2-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/thick-Be | Open/thick-Be | close | Safe | Norm | 64.0s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| **Seqn= 40 2-time(s) 2.0sec** | | | | | | | | | | | | |
| Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| **Seqn= 65 2-time(s) 2.0sec** | | | | | | | | | | | | |
| med-Al/Open | med-Al/Open | close | Safe | Norm | 2.83s | 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 |

**XOB #1AEC: G-Band Alignment with North Pole Q90 2x2 (G-band and VLS=CLS) - 1msec (Al/poly) - 4096msec - 5min cadence - Partial Sun-wNGT**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/19 01:10:00 - 11/19 02:54:54 | Fixed ( 0.0, 930.0) | # Coalignment at North pole. |

**PROG= 07 1-time(s)**

**Subr= 1 24-time(s) 300.0sec**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Seqn= 98 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 2x2 | 2048x1536 (1024, 768) | Q=90 | 0 | 0 | 2.0sec |
| **Seqn= 63 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 2x2 | 2048x1536 (1024, 768) | Q=90 | 0 | 0 | 2.0sec |
| **Seqn= 45 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Al-poly/Open | med-Be/Open | close | Safe | Norm | 4.00s | Obs | 2x2 | 2048x1536 (1024, 768) | Q=95 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | | Interval |

**XOB #1AED: G-Band Alignment with East limb Q90 2x2 (G-band and VLS=CLS) - 1msec - (Al/poly) 1443msec - 8 min cadence-wNGT**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/19 03:10:00 - 11/19 04:54:54 | Fixed ( -970.0, 0.0) | # Coalignment at East limb. |

**PROG= 03 1-time(s)**

**Subr= 1 15-time(s) 480.0sec**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Seqn= 19 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 2x2 | 1536x2048 (1280, 1024) | Q=90 | 0 | 0 | 2.0sec |
| **Seqn= 43 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 2x2 | 1536x2048 (1280, 1024) | Q=90 | 0 | 0 | 2.0sec |
| **Seqn= 70 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Al-poly/Open | med-Be/Open | close | Safe | Norm | 1.41s | Obs | 2x2 | 1536x2048 (1280, 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 #1BA3: 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 (1ms/1ms**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/19 05:10:00 - 11/19 05:52:54 | Track ( -287.4, -220.4) @ 11/19 04:55:00 | # AR 12687 observations. |

**PROG= 09 Inf.-time(s)**

**Subr= 1 1-time(s) 2.0sec**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Seqn= 92 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec |
| **Seqn= 42 3-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= 32 40-time(s) 90.0sec** | | | | | | | | | | | | |
| 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 #1BB4: 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 |
|---|---|---|
| 11/19 05:56:00 - 11/19 06:05:00 | Fixed ( 0.0, 0.0) | synoptic, shifted -7.0 min |

**PROG= 10 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= 33 1-time(s) 2.0sec** | | | | | | | | | | | | |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 11.3s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| **Seqn= 23 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |

## ✲ ✲ ✲ ✲ ✲ Flare mode ✲ ✲ ✲ ✲ ✲

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

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/18 10:55:00 - 11/18 11:24:54 | Fixed ( -20.0, -976.0) | # OP start + 10min. HOP 79 (N-S scan). 1/20. |
| 11/18 11:28:00 - 11/18 11:54:54 | Fixed ( -20.0, -876.0) | # 2/20. |
| 11/18 11:58:00 - 11/18 12:24:54 | Fixed ( -20.0, -776.0) | # 3/20. |
| 11/18 12:28:00 - 11/18 12:54:54 | Fixed ( -20.0, -676.0) | # 4/20. |
| 11/18 12:58:00 - 11/18 13:24:54 | Fixed ( -20.0, -576.0) | # 5/20. |
| 11/18 13:28:00 - 11/18 13:54:54 | Fixed ( -20.0, -476.0) | # 6/20. |
| 11/18 13:58:00 - 11/18 14:34:00 | Fixed ( -20.0, -376.0) | # 7/20. |
| 11/18 14:45:00 - 11/18 15:11:54 | Fixed ( -20.0, -276.0) | # 8/20. |
| 11/18 15:15:00 - 11/18 16:07:00 | Fixed ( -20.0, -176.0) | # 9/20. |
| 11/18 16:34:30 - 11/18 17:01:24 | Fixed ( -20.0, -76.0) | # 10/20. |
| 11/18 18:11:00 - 11/18 18:37:54 | Fixed ( -20.0, 114.0) | # 12/20. |
| 11/18 18:41:00 - 11/18 19:20:30 | Fixed ( -20.0, 214.0) | # 13/20. |
| 11/18 19:48:00 - 11/18 20:14:54 | Fixed ( -20.0, 314.0) | # 14/20. |
| 11/18 20:18:00 - 11/18 20:57:30 | Fixed ( -20.0, 414.0) | # 15/20. |
| 11/18 21:25:00 - 11/18 21:51:54 | Fixed ( -20.0, 514.0) | # 16/20. |
| 11/18 21:55:00 - 11/18 22:35:00 | Fixed ( -20.0, 614.0) | # 17/20. |
| 11/18 23:00:30 - 11/18 23:27:24 | Fixed ( -20.0, 714.0) | # 18/20. |
| 11/18 23:30:30 - 11/19 00:12:30 | Fixed ( -20.0, 814.0) | # 19/20. |
| 11/19 00:26:00 - 11/19 00:54:54 | Fixed ( -20.0, 914.0) | # 20/20. |
| 11/19 05:10:00 - 11/19 05:52:54 | Track ( -287.4, -220.4) @ 11/19 04:55:00 | # AR 12687 observations. |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PROG= 13 30-time(s)** | | | | | | | | | | | | |
| **Subr= 1 20-time(s) 2.0sec** | | | | | | | | | | | | |
| **Seqn= 11 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| **Seqn=100 1-time(s) 10.0sec** | | | | | | | | | | | | |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 125ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| med-Be/Open | Open/thick-Al | close | Safe | Norm | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| **Subr= 2 1-time(s) 2.0sec** | | | | | | | | | | | | |
| **Seqn= 10 1-time(s) 2.0sec** | | | | | | | | | | | | |
| med-Al/Open | med-Al/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| Open/thick-Be | Open/thick-Be | close | Safe | Norm | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| **Seqn= 11 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| **Seqn= 87 1-time(s) 2.0sec** | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |

## ✲ ✲ ✲ ✲ ✲ Active Region Search ✲ ✲ ✲ ✲ ✲

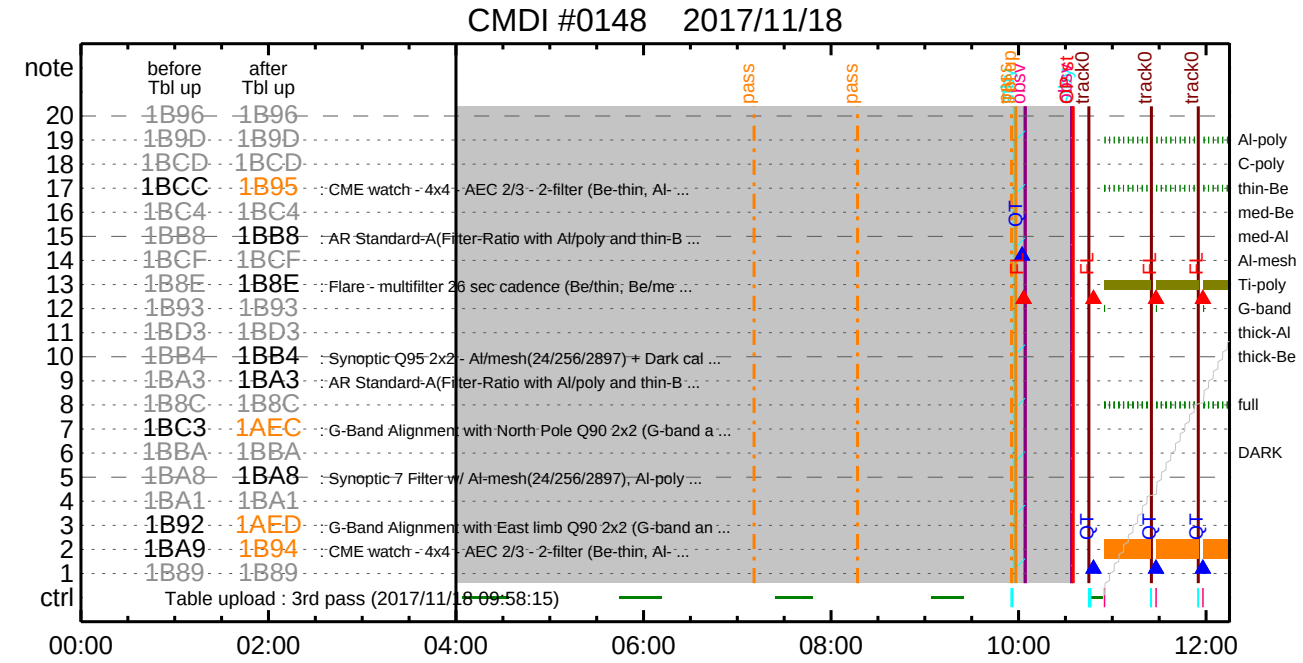
NOT USED

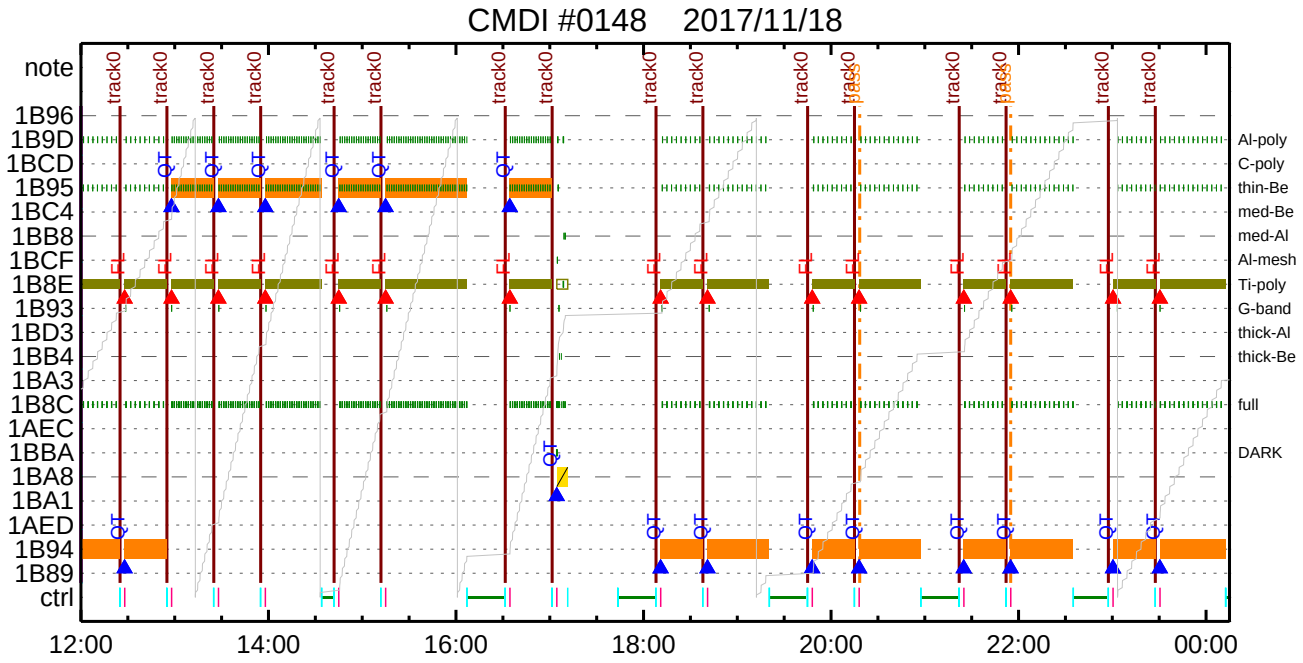
## ✲ ✲ ✲ ✲ ✲ Flare Detection ✲ ✲ ✲ ✲ ✲

**FLD Patrol**

| Term | Pointing (x, y) | Comment |
|---|---|---|
| 11/18 18:08:18 - 11/19 00:55:18 | Fixed ( -20.0, 114.0) | # 12/20. |
| 11/19 04:55:18 - 11/19 05:53:18 | Track ( -287.4, -220.4) @ 11/19 04:55:00 | # AR 12687 observations. |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 8ms | Obs | 8x8 | | Q=50 | | | 30sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC | Buffer | Interval |


CMDI #0148 2017/11/18
note
before Tbl up
after Tbl up
20 1B96 1B96
19 1B9D 1B9D
18 1BCD 1BCD
17 1BCC 1B95 : CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al- ...
16 1BC4 1BC4
15 1BB8 1BB8 : AR Standard-A(Filter-Ratio with Al/poly and thin-B ...
14 1BCF 1BCF
13 1B8E 1B8E : Flare - multifilter 26 sec cadence (Be/thin, Be/me ...
12 1B93 1B93
11 1BD3 1BD3
10 1BB4 1BB4 : Synoptic Q95 2x2 - Al/mesh(24/256/2897) + Dark cal ...
9 1BA3 1BA3 : AR Standard-A(Filter-Ratio with Al/poly and thin-B ...
8 1B8C 1B8C
7 1BC3 1AEC : G-Band Alignment with North Pole Q90 2x2 (G-band a ...
6 1BBA 1BBA
5 1BA8 1BA8 : Synoptic 7 Filter w/ Al-mesh(24/256/2897), Al-poly ...
4 1BA1 1BA1
3 1B92 1AED : G-Band Alignment with East limb Q90 2x2 (G-band an ...
2 1BA9 1B94 : CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al- ...
1 1B89 1B89
ctrl
Table upload : 3rd pass (2017/11/18 09:58:15)
pass
track0
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0148 2017/11/18
note
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1B9D
1BCD
1B95
1BC4
1BB8
1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
track0
pass
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
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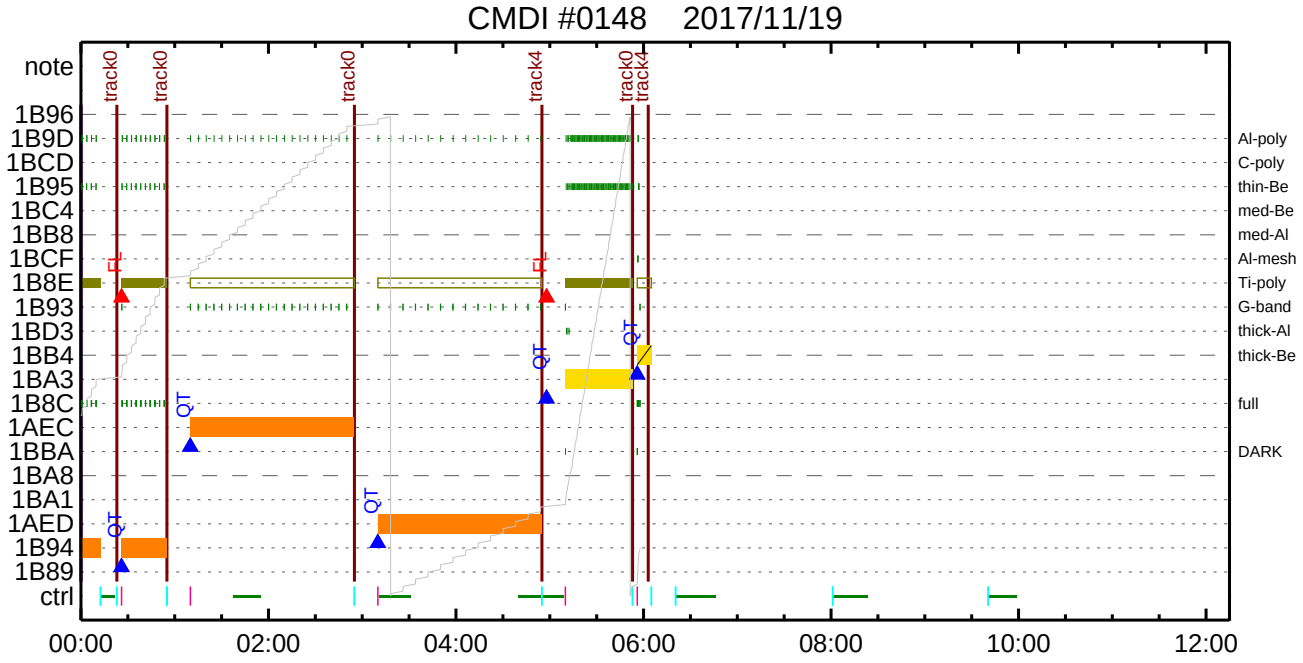
CMDI #0148 2017/11/19
note
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1B9D
1BCD
1B95
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1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
track0
track4
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
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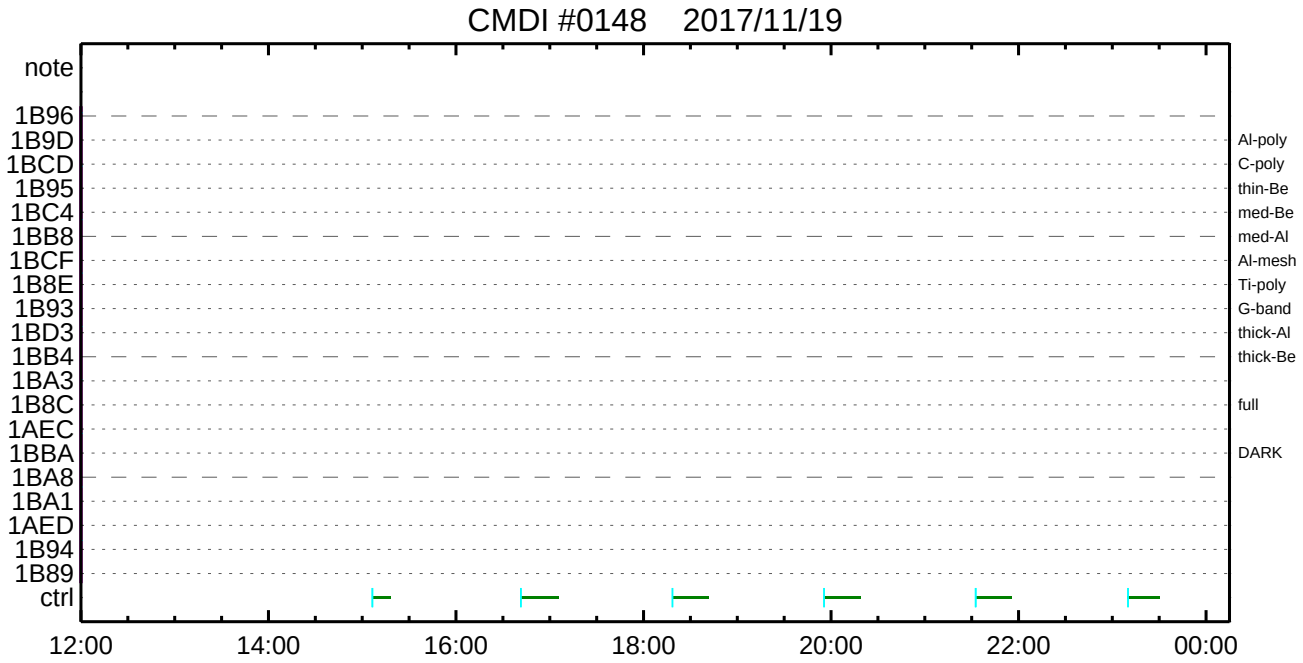
12:00


CMDI #0148 2017/11/19
note
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1BCD
1B95
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1BB8
1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
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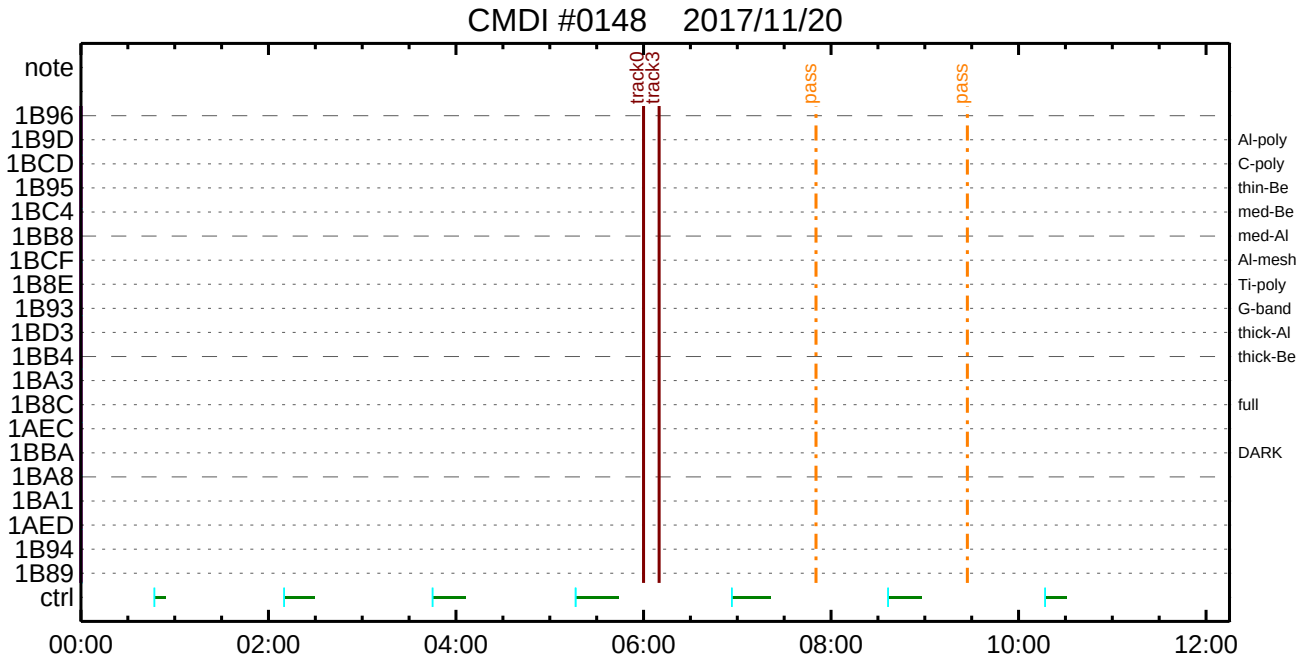
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note
track0
track3
pass
pass
1B96
1B9D
1BCD
1B95
1BC4
1BB8
1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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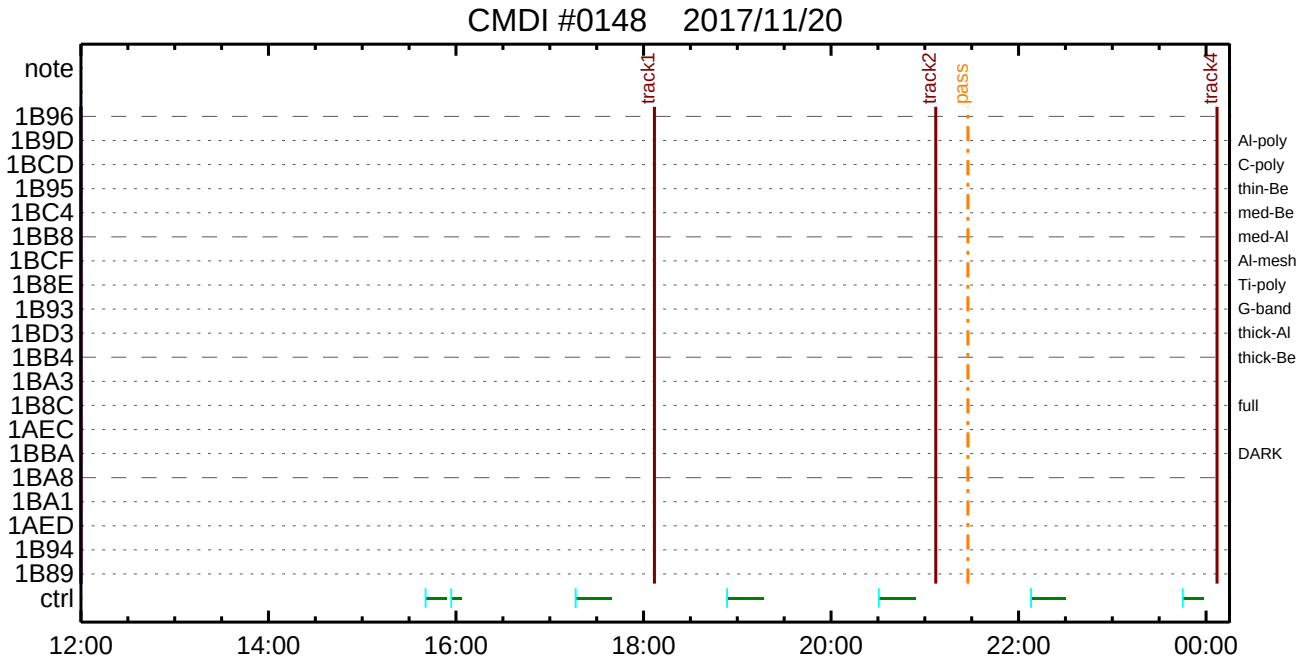
CMDI #0148 2017/11/20
note
track1
track2
pass
track4
1B96
1B9D
1BCD
1B95
1BC4
1BB8
1BCF
1B8E
1B93
1BD3
1BB4
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1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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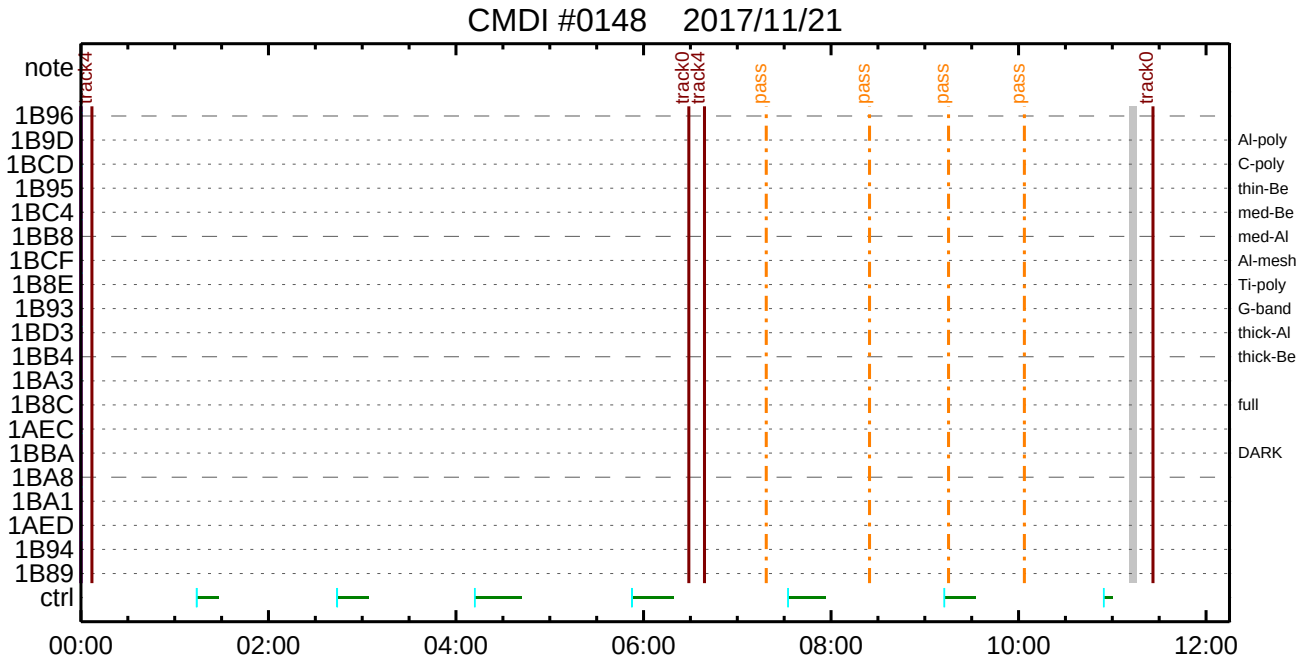
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1B95
1BC4
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1BD3
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1B94
1B89
ctrl
track4
track0
track4
pass
pass
pass
pass
track0
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
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full
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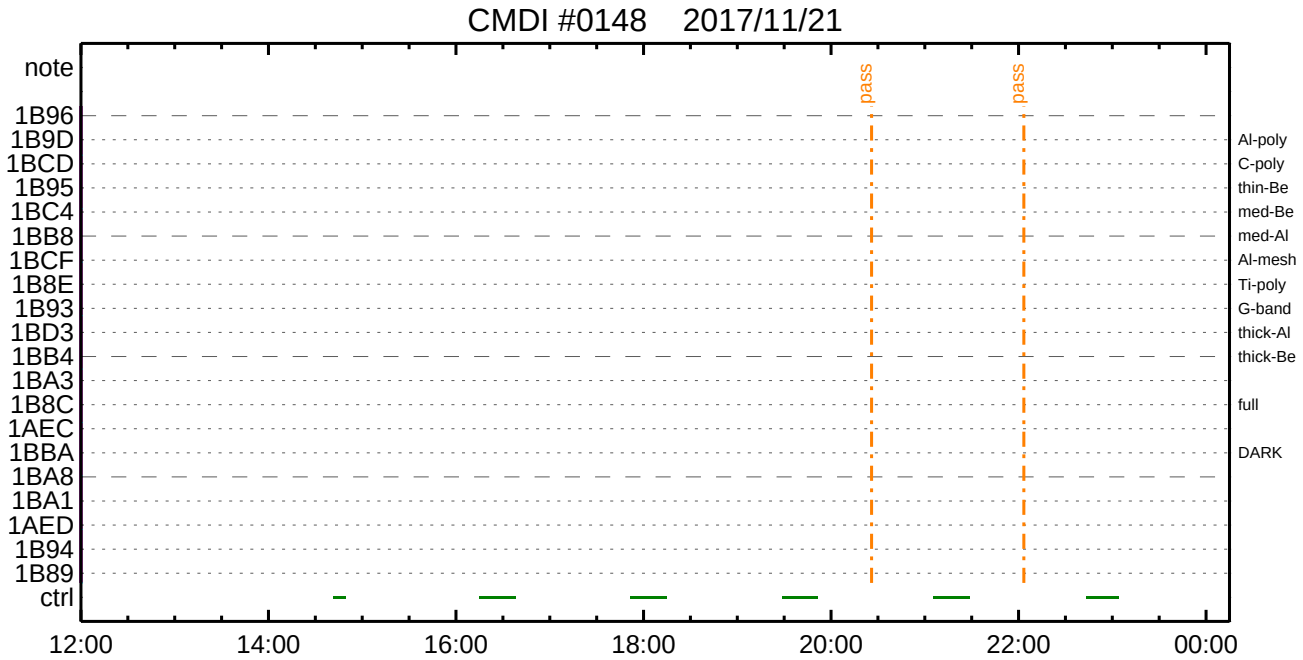
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note
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1B9D
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Al-poly
C-poly
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med-Be
med-Al
Al-mesh
Ti-poly
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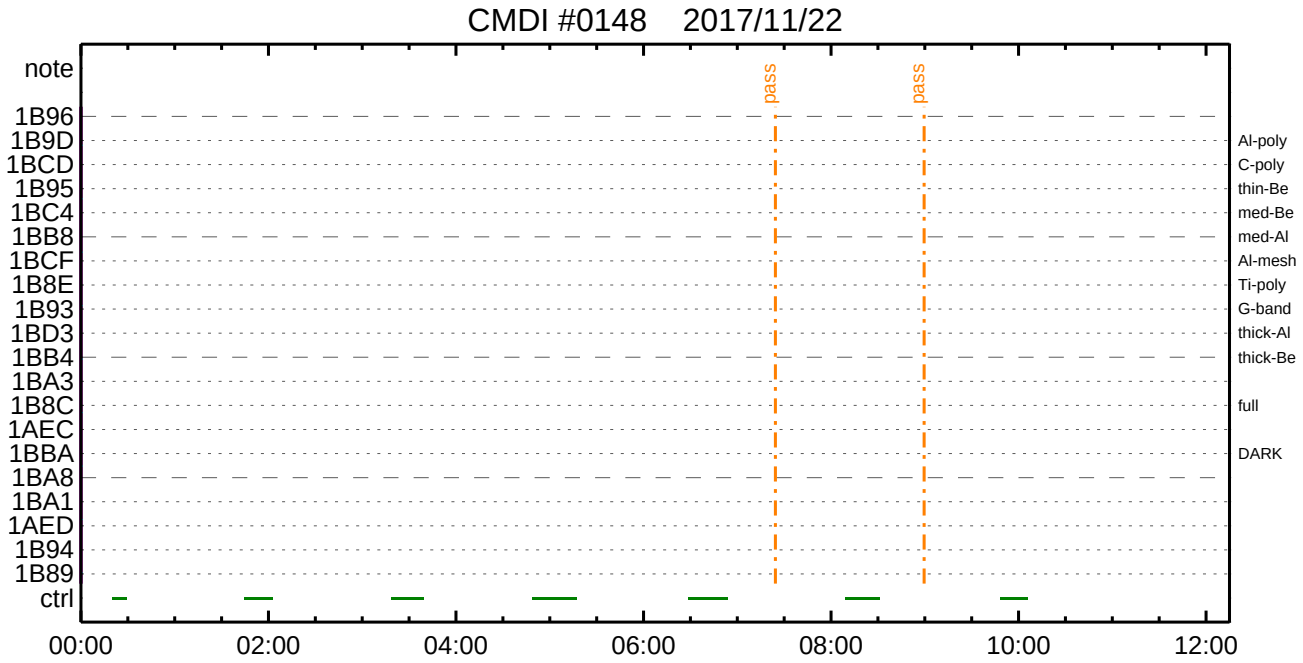
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note
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ctrl
pass
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Al-poly
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Al-mesh
Ti-poly
G-band
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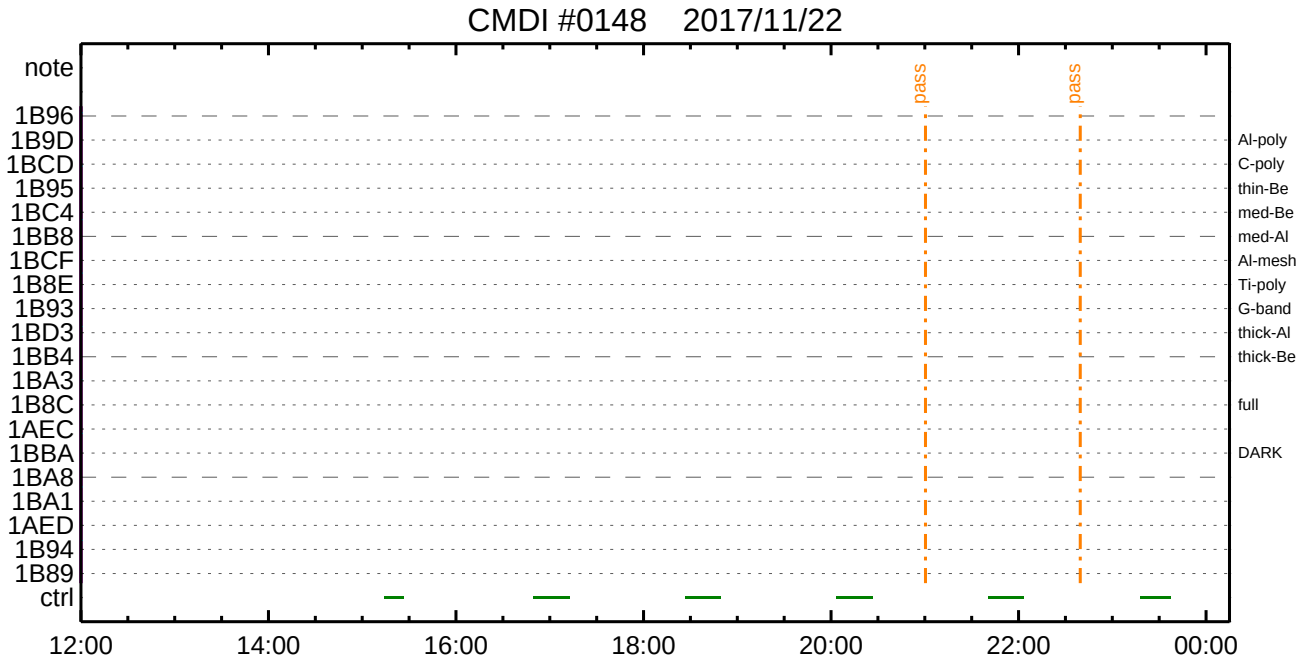
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note
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Al-mesh
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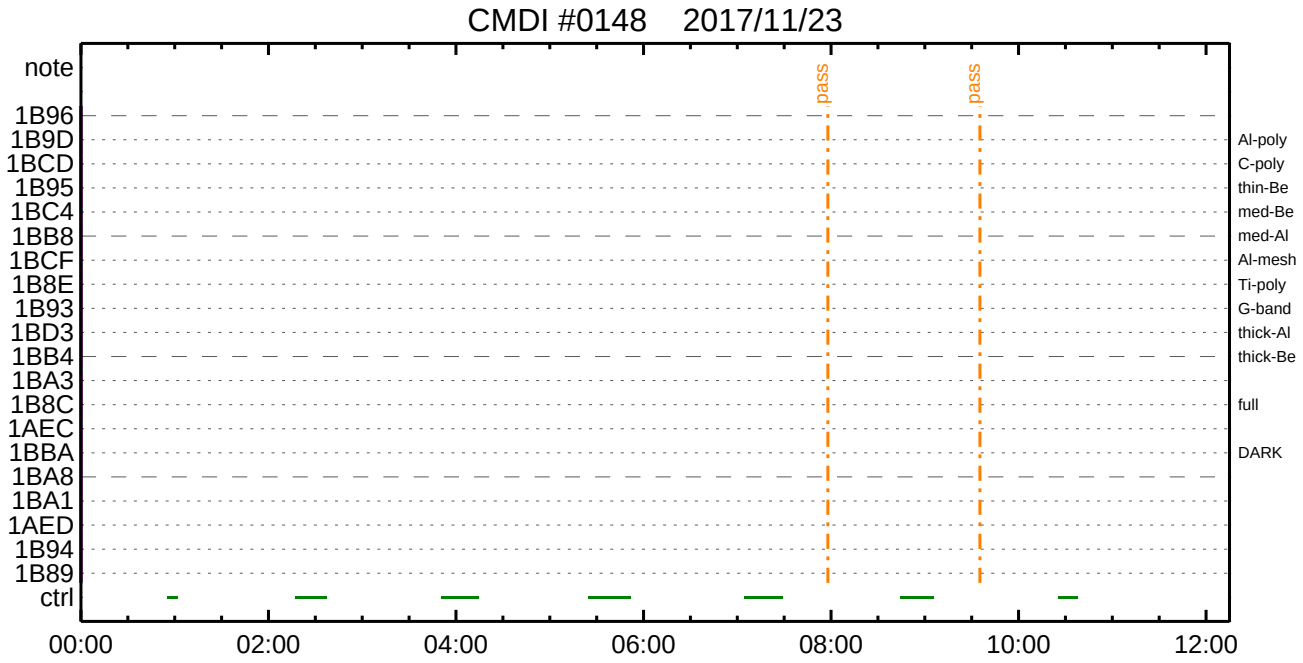
CMDI #0148 2017/11/23
note
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ctrl
pass
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C-poly
thin-Be
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Al-mesh
Ti-poly
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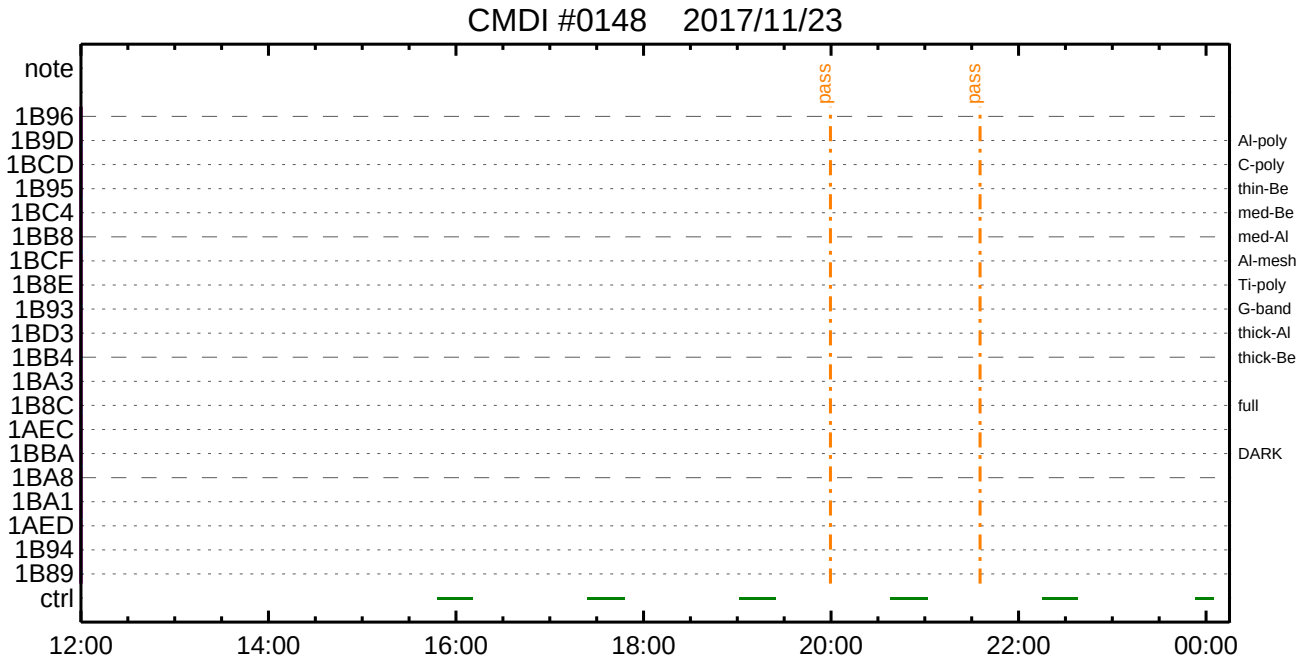
CMDI #0148 2017/11/23
note
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ctrl
pass
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Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
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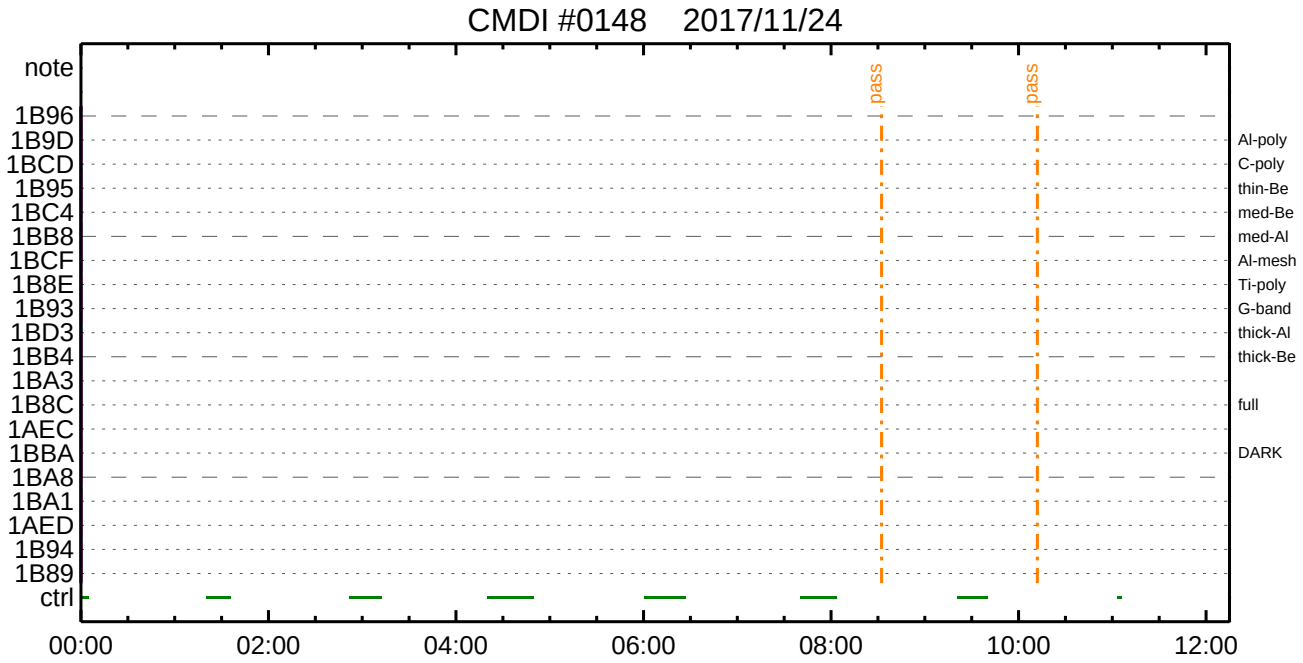
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note
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1B89
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
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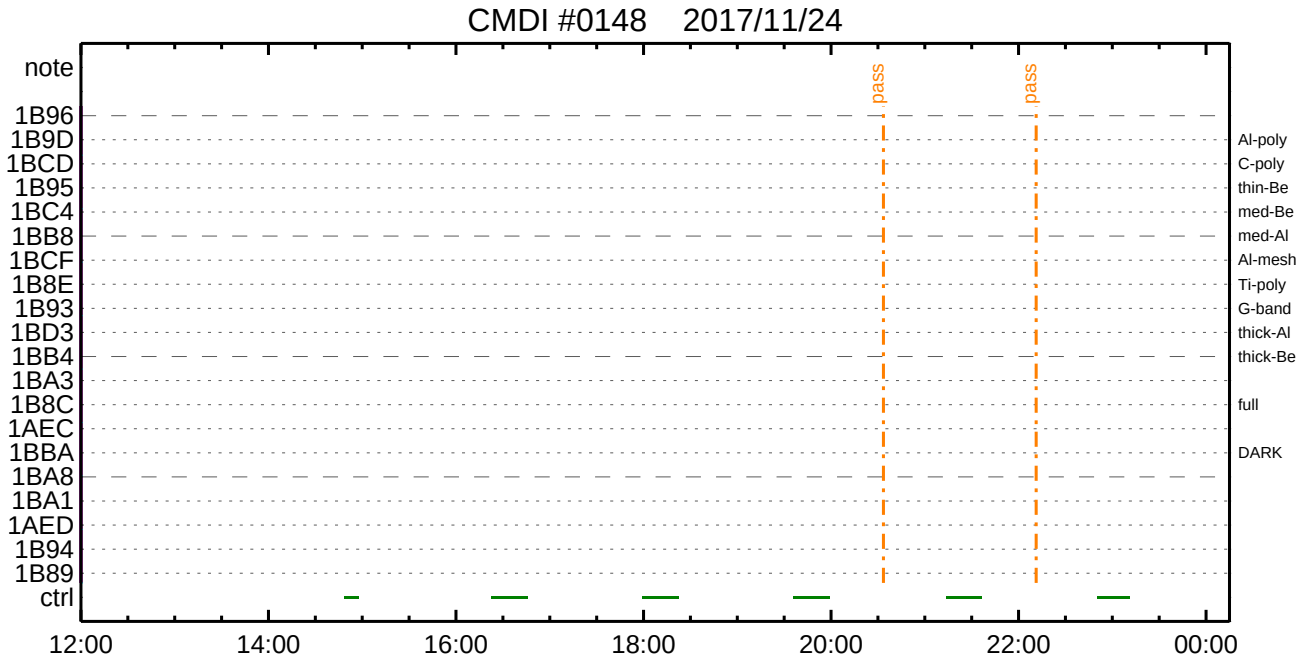
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ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
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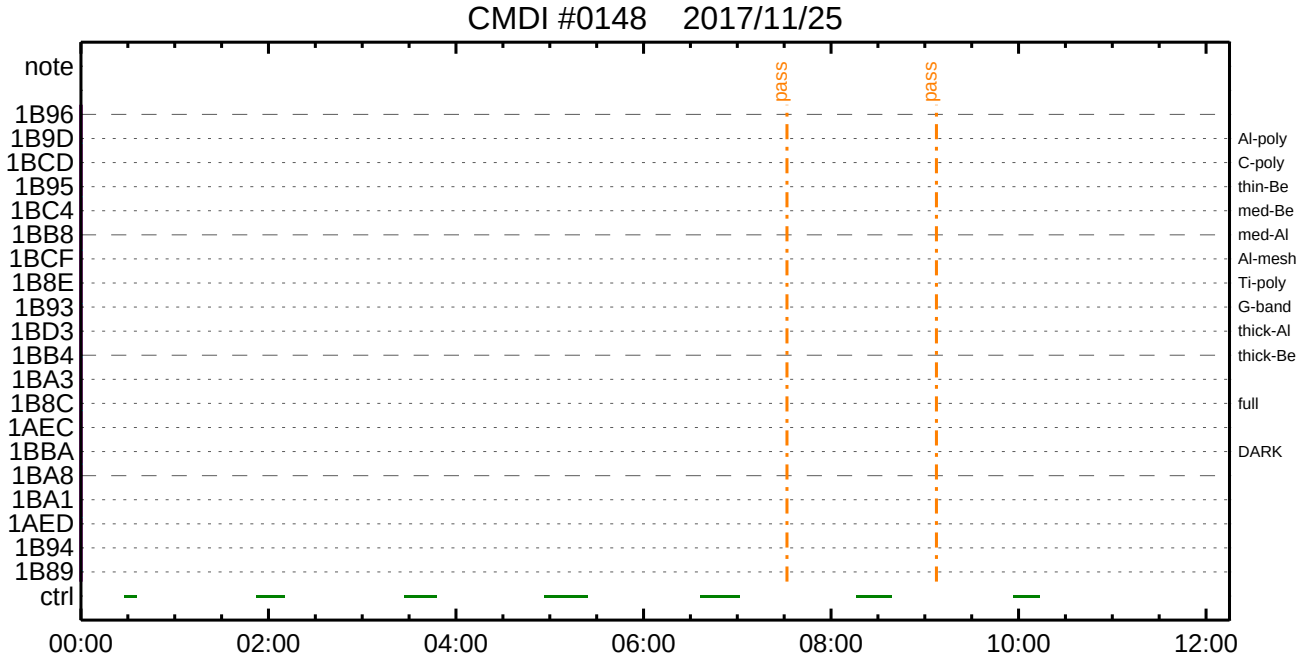
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1B89
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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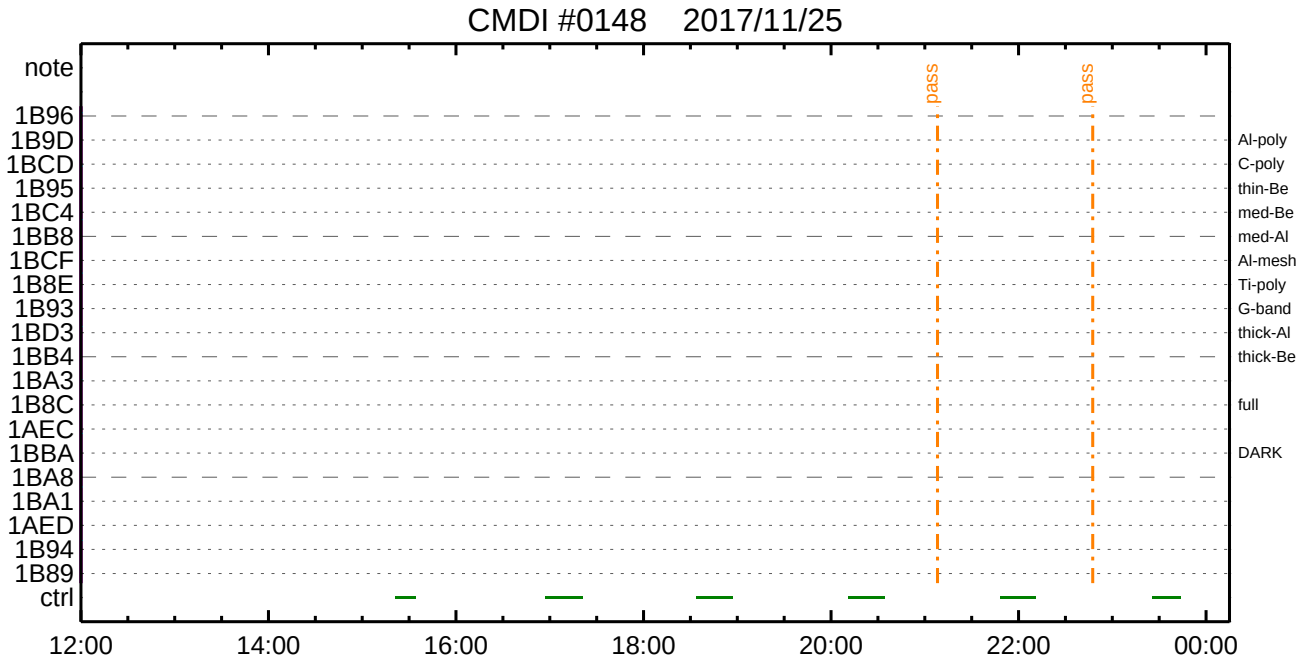
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1BD3
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1BA3
1B8C
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1B94
1B89
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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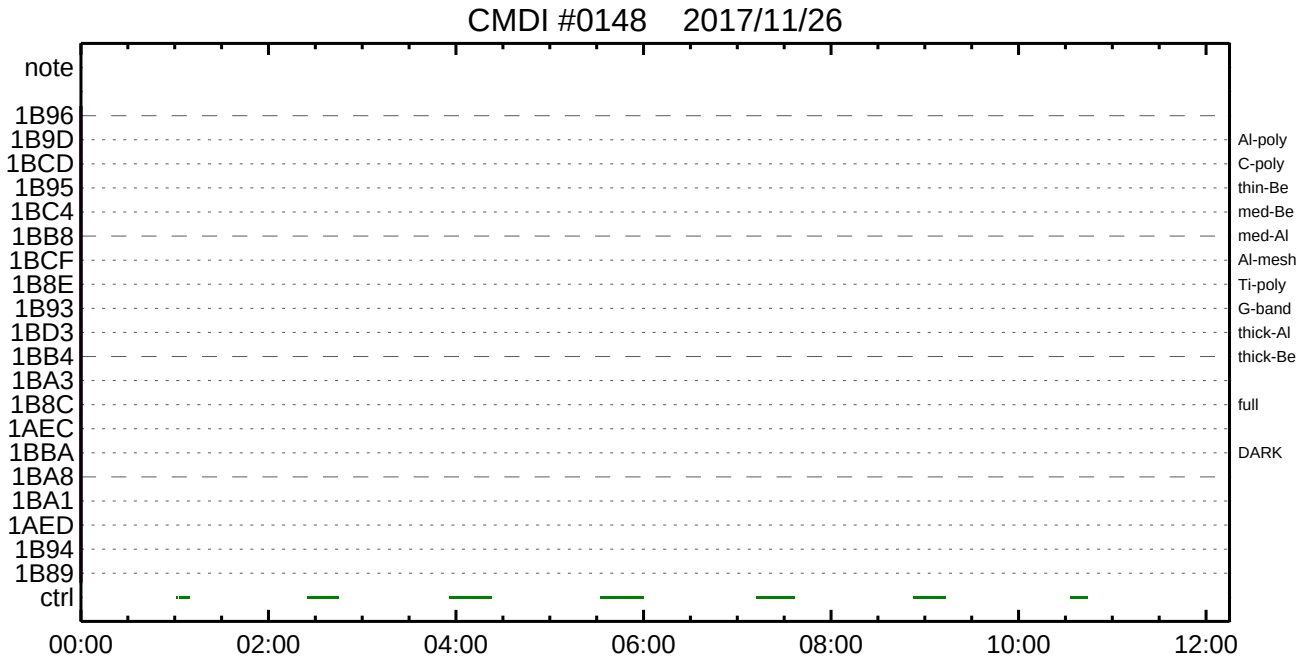
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1BD3
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1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
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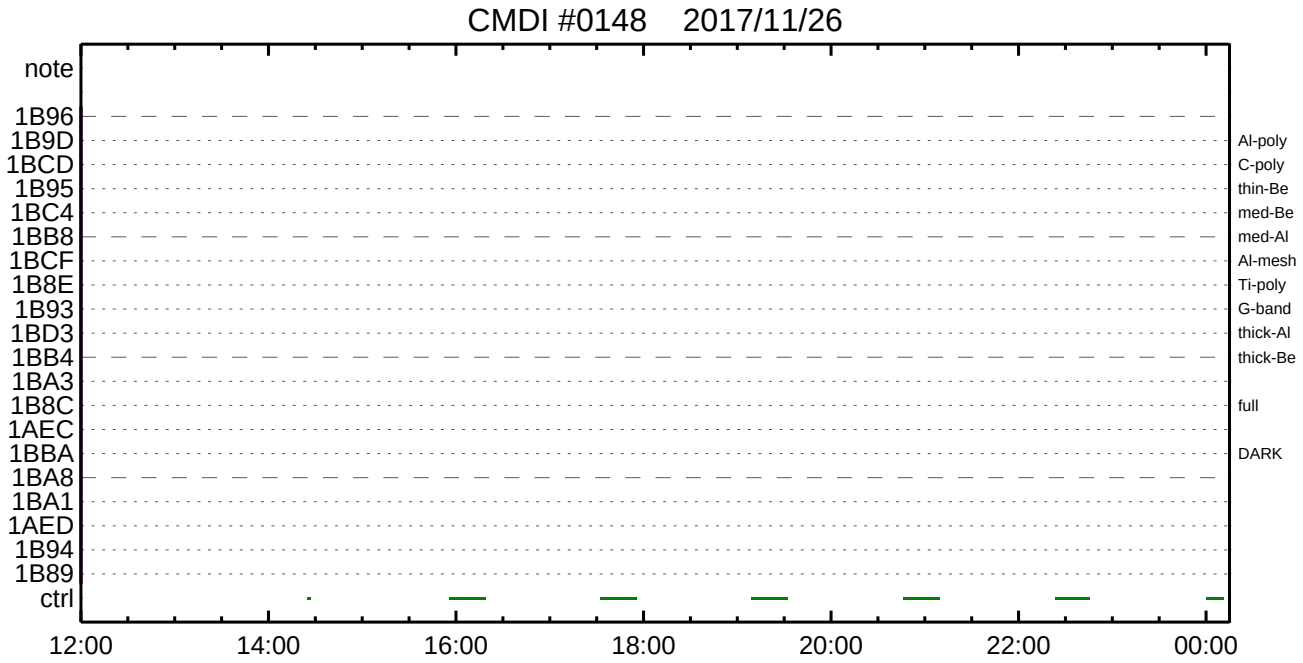
CMDI #0148 2017/11/26
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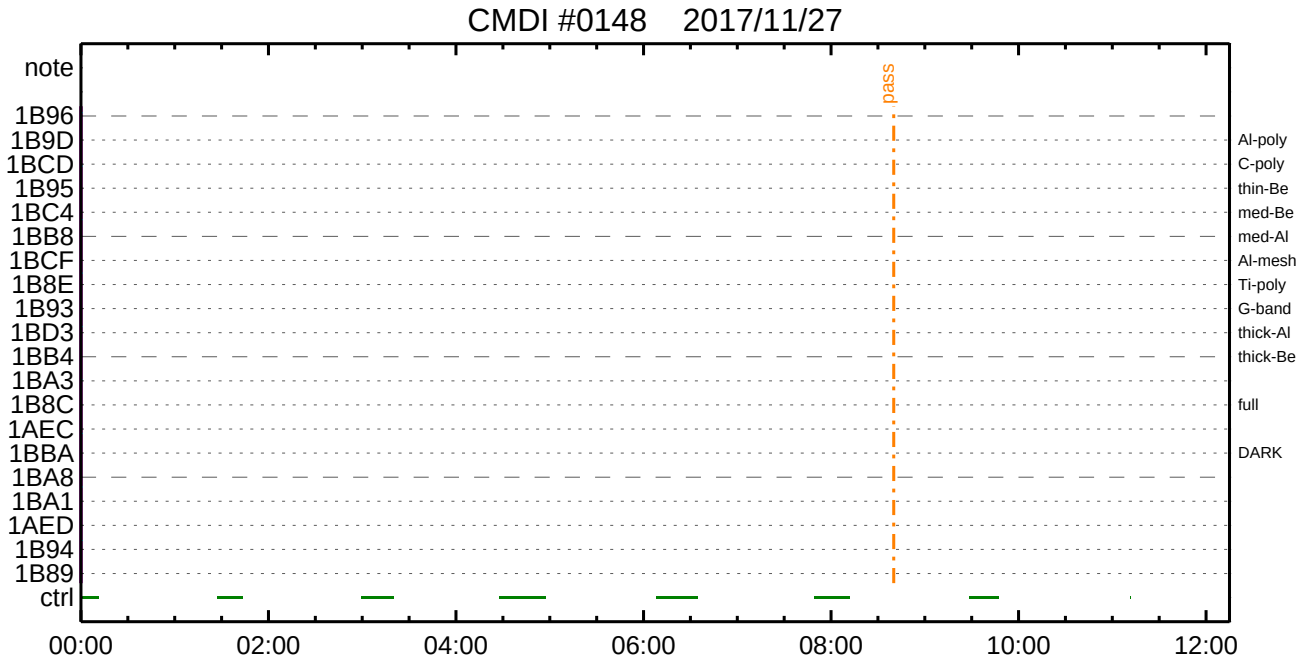
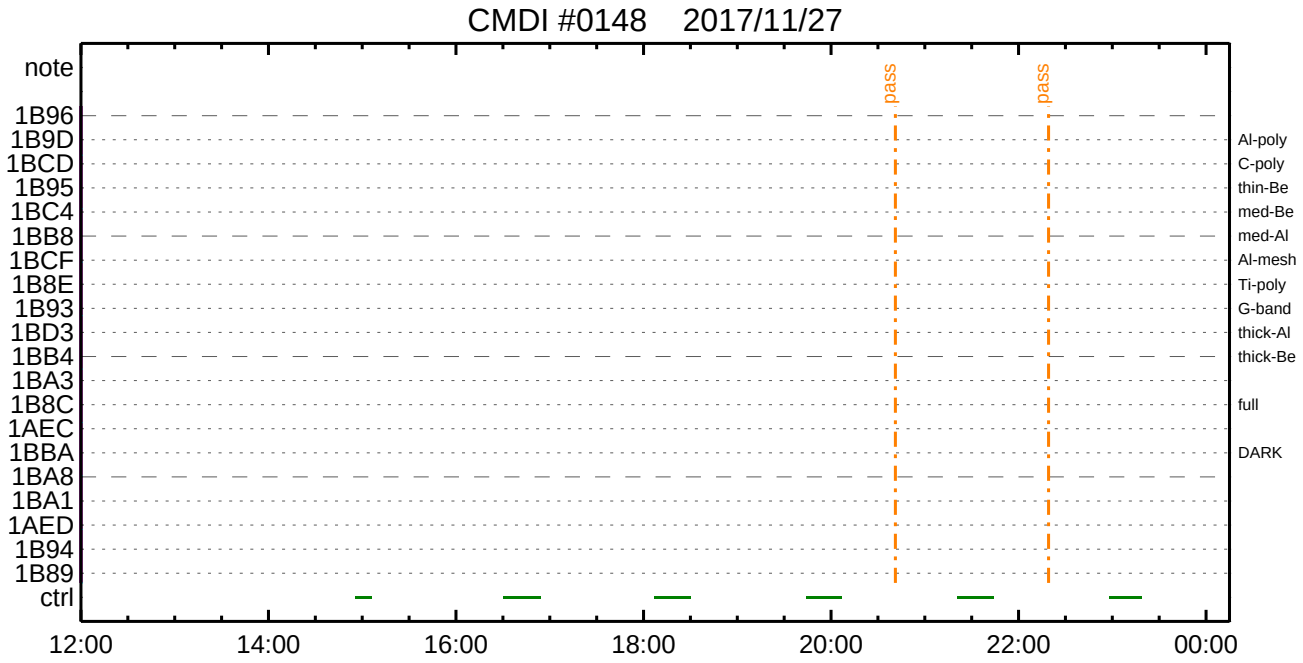
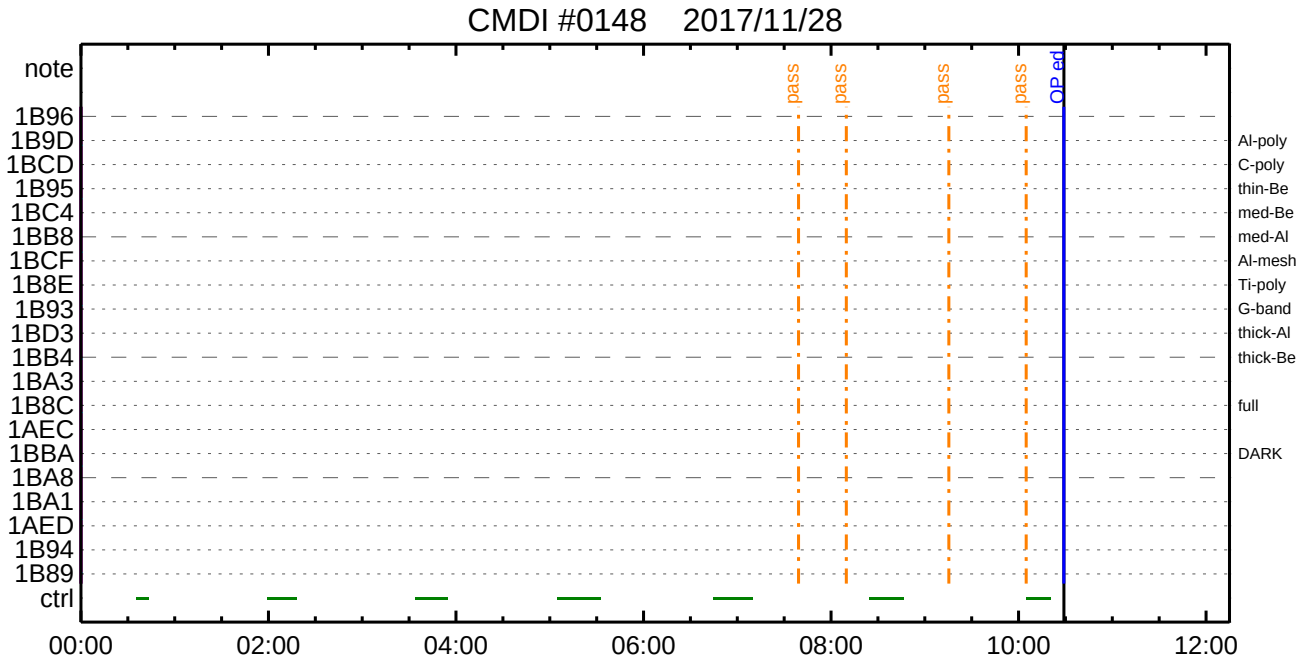
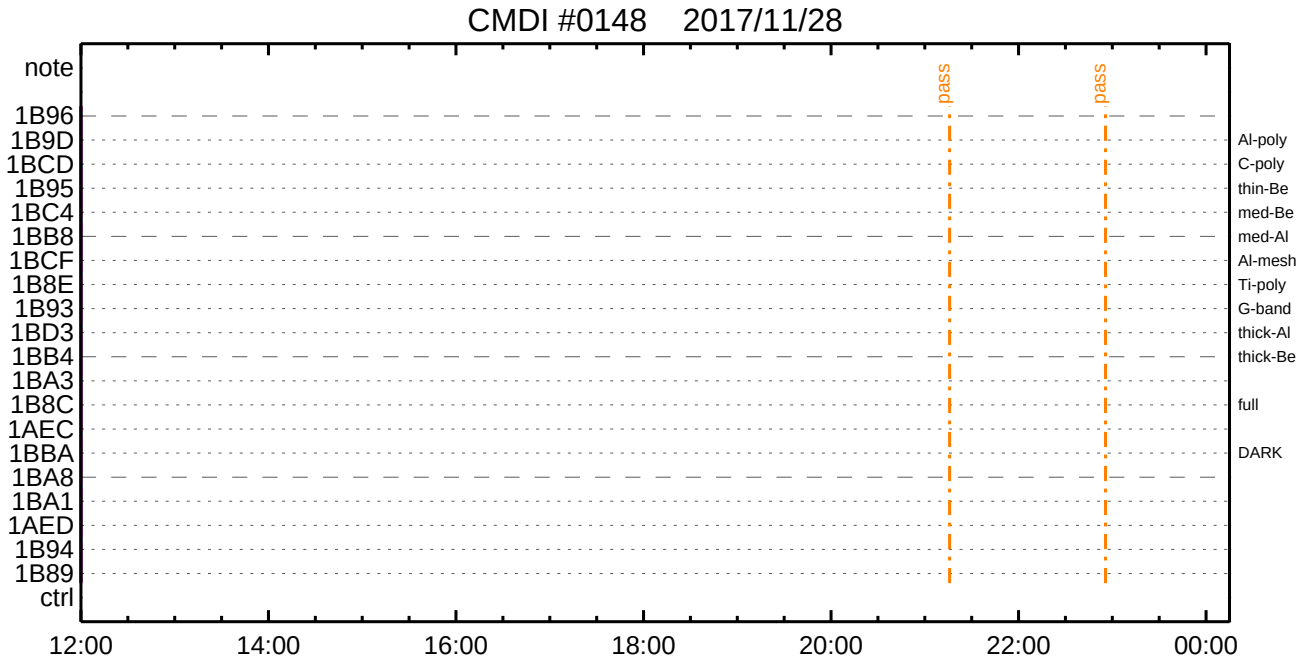
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0148 2017/11/27
note
1B96
1B9D
1BCD
1B95
1BC4
1BB8
1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0148 2017/11/27
note
1B96
1B9D
1BCD
1B95
1BC4
1BB8
1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0148 2017/11/28
note
1B96
1B9D
1BCD
1B95
1BC4
1BB8
1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
pass
pass
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0148 2017/11/28
note
1B96
1B9D
1BCD
1B95
1BC4
1BB8
1BCF
1B8E
1B93
1BD3
1BB4
1BA3
1B8C
1AEC
1BBA
1BA8
1BA1
1AED
1B94
1B89
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

(a) Spacecraft Operation Procedure (real-commands)

```
main-991 2017-11-18 12:56:38 194 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0016     C. ****************************
0017     C.
0018   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0019   . S. OP    op-991:OP
0020     ()
0021   . S. OG    og-991:OG
0022     ()
0023     C.
0024   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0025     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0026  +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027     BC       (20 00 7f 01 02)
0028     C.                    ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0029     C.                    ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0030     C.                    ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0031     C.                    ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0032     C.                    ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0033  +. DC 01-22 DHU_MODE_CHNG
0034     BC       (07 0b f8)
0035     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     7
0036     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0037     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0038     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0039     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0040   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0041     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0042   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0043     C.
0044     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0045  +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046     BC       (20 80 7f 01 02)
0047     C.                    ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0048     C.                    ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0049     C.                    ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0050     C.                    ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0051     C.                    ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0052  +. DC 01-22 DHU_MODE_CHNG
0053     BC       (07 0b f8)
0054     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     7
0055     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0056     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0057     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0058     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0059   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0060     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0061   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0062     C.
0063     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064  +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065     BC       (21 00 41 01 02)
0066     C.                    ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0067     C.                    ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0068     C.                    ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0069     C.                    ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0070     C.                    ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0071  +. DC 01-22 DHU_MODE_CHNG
0072     BC       (07 0b f8)
0073     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     7
0074     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0075     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0076     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0077     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0078   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0079     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0080   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0081     C.
0082   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0083     C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0084  +. DC 01-22 DHU_MODE_CHNG
0085     BC       (02 0a f8)
0086     C.                    ¢¢[HK1_PKT_FORM_NO]             EQ     2
0087     C.                    ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0088     C.                    ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0089     C.                    ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0090     C.
0091   . C. ********************************
0092     C. TI-CMD SET (OPOG STOP/COPY/START)
0093     C. ********************************
0094     C.
0095   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
```

```
0096     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
0097     C.
0098   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0099  +. TI 2017-11-18 10:30:00.0
0100     DC 01-B3 DHU_OP_STOP
0101     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0102     C.
0103  +. TI 2017-11-18 10:30:01.0
0104     DC 01-B4 DHU_OP_COPY
0105     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0106     C.
0107  +. TI 2017-11-18 10:30:01.0
0108     DC 01-B5 DHU_OPOG_COPY
0109     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0110     C.
0111  +. TI 2017-11-18 10:34:59.5
0112     DC 01-B2 DHU_OP_START
0113     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0114     C.
0115     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0116     C.                      ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0117     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     4
0118     C.                      ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0119     C.                      ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0120     C.
0121   . C. ****************************
0122     C. TIÎÎ°è¥À¥ó¥×
0123     C. ****************************
0124     C.
0125     C. TI_TBL(0x03AB00-0x03AEFF¡§ 1024byte)
0126  +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127     BC       (03 ab 03 01 02)
0128     C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0129     C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0130     C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0131     C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0132     C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0133  +. DC 01-22 DHU_MODE_CHNG
0134     BC       (07 0b f8)
0135     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
0136     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0137     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0138     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0139     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0140     C.
0141   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0142     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0143     C.
0144   . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0145     C.
0146   . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0147  +. DC 01-22 DHU_MODE_CHNG
0148     BC       (02 0a f8)
0149     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
0150     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0151     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0152     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0153     C.
0154   . C. Stop EIS observation and temporarily disable EIS mode changes
0155     C.
0156     C.
0157     C. ********** Start EIS operation (TI set) **********
0158     C. Execute, after the success of OP upload.
0159     C. Set EIS TI-commands
0160  +. TI 2017-11-18 10:34:30.0
0161     DC 07-FC EIS_MODE_MANU
0162     BC       (21 02)
0163  +. TI 2017-11-18 10:34:40.0
0164     DC 07-FC EIS_MODE_CHG_DIS
0165     BC       (22)
0166   . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0167     C. *********** End EIS operation (TI set) ***********
0168     C.
0169     C.
0170     C.
0171     C. ************ XRT START ***********
0172     C. Execute, after the success of OP upload.
0173  +. TI 2017-11-18 10:34:00.0
0174     DC 07-F0 MDP_XRT_MODE_STBY
0175     BC       (c3)
0176   . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0177     C.
0178     C. ************ XRT END ***********
0179     C.
0180   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0181     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0182   . S. DC-BC dcbc-402:DCBC
0183     (MDP_known_event)
0184     C.
0185     C.
0186   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0187   . S. DC-BC dcbc-153:DCBC
0188     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0189     C.
0190     C.
0191   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0192     C.
0193   . C. *********** LOS ***********
```

0194 C.

```
(a) Spacecraft Operation Procedure (real-commands)

main-992 2017-11-18 12:56:38 169 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥ÃÃ¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸Í×ÈÝ¤äLOS¤Þ¤ÇÇÎ»þ´Ö¤ò¹ÍÎ¸¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019  +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021  +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023  +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                    ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                    ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥ÃÃ¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸³«»Ï¡ä
0037  +. DC 01-29 DHU_S/X_VC4_OFF
0038  +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040  +  DC 06-B3 DR_REP_START
0041  +  DC 01-32 DHU_X_VC4_ON
0042     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ºÆ³«¡ä
0047  +. DC 06-B3 DR_REP_START
0048  +  DC 01-32 DHU_X_VC4_ON
0049     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Äº²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸³«»Ï¡ä
0063  +. DC 01-29 DHU_S/X_VC4_OFF
0064  +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066  +  DC 06-B3 DR_REP_START
0067  +  DC 01-32 DHU_X_VC4_ON
0068     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ºÆ³«¡ä
0073  +. DC 06-B3 DR_REP_START
0074  +  DC 01-32 DHU_X_VC4_ON
0075     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸Ää»ß¡ä
0084  +. DC 06-B4 DR_REP_STOP
0085  +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                    ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                    ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091  +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093  +  DC 03-B5 TCIA_XPA_OFF
0094     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
    C.
    C.
  . C. ***** AOCS Commands (Tracking Curve Upload) ******
    C. Upload the Orbit Element and the Target Attitude
    C. RAM-ID:TARGET_ATT
  . S. RAM   ram-150:TARGET_ATT
    ()
    C.
    C.
    C. Set the dump memory area of TARGET_ATT
 +. DC 02-48 AOCU_DUMP_SET
    BC       (07 00 00 00 18 00)
    C.
    C.    <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
    C.
    C.
    C. Change the TLMFormatNo for the AOCS Dump Format
 +. DC 01-22 DHU_MODE_CHNG
    BC       (04 0b f8)
    C.
    C. Wait for AOCSDUMP to end
    C.
  . C. Check the dump memory
    C.
    C.                                      Result = OK [ ]
    C.
 +. DC 01-22 DHU_MODE_CHNG
    BC       (02 0a f8)
    C.
    C.                        <A_***>[TLM STS] FMT = 2 [ ]
    C.
 +. DC 02-8E AOCU_ORB_UPD
  . C.
  . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
 +. DC 07-FC EIS_MODE_CHG_ENA
    BC       (20)
  . C. Verify EIS_MODE_CHG_FLG is ENA
 +. DC 07-FC EIS_MODE_MANU
    BC       (21 02)
  . C. Verify EIS in MANUAL mode
  . C. Estimated OBSTBL upload time is 1m24s
    C. ********************************
    C. EIS START OBSTBL LOAD
    C. ********************************
  . S. RAM   ram-820:EIS_OBSTBL
    ()
 +. DC 07-FC EIS_DUMP_OBSTBL
    BC       (07 07 07 00 00 70 00)
    C.
    C. Execute, after the success of OBSTBL upload.
    C. Set EIS TI-commands
 +. TI 2017-11-18 10:34:50.0
    DC 07-FC EIS_MODE_CHG_ENA
    BC       (20)
  . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
    C. ********************************
    C. EIS END OBSTBL LOAD
    C. ********************************
    C.
  . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
    C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
  . S. DC-BC dcbc-402:DCBC
    (MDP_known_event)
    C.
    C.
  . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
  . S. DC-BC dcbc-153:DCBC
    (SPECIAL-CMD_DAILY_OPERATIN_DCB)
    C.
    C.
  . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
    C.
  . C. *********** LOS ***********
    C.
```

```
(a) Spacecraft Operation Procedure (real-commands)

main-993 2017-11-18 12:56:38 190 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇÇÎ»þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019  +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021  +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023  +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                    ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                    ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037  +. DC 01-29 DHU_S/X_VC4_OFF
0038  +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040  +  DC 06-B3 DR_REP_START
0041  +  DC 01-32 DHU_X_VC4_ON
0042     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸ ¡¾Ú)
0043     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0044     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸ å¤ÎºÆÀ¸ ºÆ³«¡ä
0047  +. DC 06-B3 DR_REP_START
0048  +  DC 01-32 DHU_X_VC4_ON
0049     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸ ¡¾Ú)
0050     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0051     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸ å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Äº²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063  +. DC 01-29 DHU_S/X_VC4_OFF
0064  +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066  +  DC 06-B3 DR_REP_START
0067  +  DC 01-32 DHU_X_VC4_ON
0068     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸ ¡¾Ú)
0069     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0070     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸ å¤ÎºÆÀ¸ ºÆ³«¡ä
0073  +. DC 06-B3 DR_REP_START
0074  +  DC 01-32 DHU_X_VC4_ON
0075     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸ ¡¾Ú)
0076     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0077     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084  +. DC 06-B4 DR_REP_STOP
0085  +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                    ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                    ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091  +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093  +  DC 03-B5 TCIA_XPA_OFF
0094     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098     C.
0099     C. ************ XRT START ************
0100     C.
0101  +. DC 07-F0 MDP_XRT_CTRL_MANU
0102     BC       (c1)
0103  +. DC 07-F0 MDP_XRT_CTRL_MANU
0104     BC       (c1)
0105  +  DC 07-F0 MDP_XRT_MODE_STBY
0106     BC       (c3)
0107   . C. ----------- Success Verify ?              OK / NG____
0108     C.
0109     C. XRT Obs. Table Upload
0110   . S. RAM   ram-291:MDP_OBS_X
0111     ()
0112     C.
0113  +. DC 07-F0 MDP_DUMP_XRTTBL
0114     BC       (84 07 00 00 00 3a d4)
0115   . C. ----------- Comparison Check ?                        OK / ERR ____
0116     C.
0117     C.
0118  +. DC 07-F0 MDP_XRT_ROI_SET
0119     BC       (cd 01 b1 b1 04 04)
0120  +  DC 07-F0 MDP_XRT_ROI_SET
0121     BC       (cd 02 b1 b1 08 08)
0122  +  DC 07-F0 MDP_XRT_ROI_SET
0123     BC       (cd 03 b1 b1 08 08)
0124  +  DC 07-F0 MDP_XRT_ROI_SET
0125     BC       (cd 04 b1 b1 06 06)
0126  +  DC 07-F0 MDP_XRT_ROI_SET
0127     BC       (cd 05 85 83 06 06)
0128  +  DC 07-F0 MDP_XRT_ROI_SET
0129     BC       (cd 06 85 83 06 06)
0130  +  DC 07-F0 MDP_XRT_ROI_SET
0131     BC       (cd 07 85 83 08 08)
0132  +  DC 07-F0 MDP_XRT_ROI_SET
0133     BC       (cd 08 80 80 08 08)
0134  +  DC 07-F0 MDP_XRT_ROI_SET
0135     BC       (cd 09 80 80 20 20)
0136  +  DC 07-F0 MDP_XRT_ROI_SET
0137     BC       (cd 0a 80 80 20 08)
0138  +  DC 07-F0 MDP_XRT_ROI_SET
0139     BC       (cd 0b 80 80 08 20)
0140  +  DC 07-F0 MDP_XRT_ROI_SET
0141     BC       (cd 0c 80 60 20 18)
0142  +  DC 07-F0 MDP_XRT_ROI_SET
0143     BC       (cd 0d a0 80 18 20)
0144  +  DC 07-F0 MDP_XRT_ROI_SET
0145     BC       (cd 0f 80 80 06 06)
0146  +  DC 07-F0 MDP_XRT_ROI_SET
0147     BC       (cd 10 80 80 08 08)
0148  +  DC 07-F0 MDP_XRT_FLD_ENA
0149     BC       (d8)
0150  +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0151     BC       (c8)
0152  +  DC 07-F0 MDP_XRT_ARS_DIS
0153     BC       (d5)
0154  +. DC 07-F0 MDP_XRT_AEC_RESET
0155     BC       (d0)
0156  +. DC 07-F0 MDP_XRT_FLD_RESET
0157     BC       (da)
0158  +. DC 07-F0 MDP_XRT_QT_PROG_SET
0159     BC       (c4 0f)
0160  +. DC 07-F0 MDP_XRT_FL_PROG_SET
0161     BC       (c5 0d)
0162   . C. ---------- Success Verify ?            OK / NG ____
0163     C.
0164     C.
0165   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0166     C.
0167  +. DC 07-F0 MDP_XRT_MODE_OBSV
0168     BC       (c2)
0169  +. TI 2017-11-18 10:34:02.0
0170     DC 07-F0 MDP_XRT_MODE_OBSV
0171     BC       (c2)
0172   . C. ---------- Success Verify ?            OK / NG ____
0173     C.
0174     C. ************ XRT END ***********
0175     C.
0176   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0177     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0178   . S. DC-BC dcbc-402:DCBC
0179     (MDP_known_event)
0180     C.
0181     C.
0182   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0183   . S. DC-BC dcbc-153:DCBC
0184     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0185     C.
0186     C.
0187   . C. ¡ãLOS¥Á¥§¥Ã¥ ¯¼Â»Ü¡ä
0188     C.
0189   . C. *********** LOS ***********
0190     C.
```

```
*** OP Sequence for XRT ***

2017/11/18  10:44:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  10:44:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  10:44:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  10:45:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                        AOCU_NM              5 02-76 00 56 c0 01 ca
2017/11/18  10:45:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  10:45:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  10:45:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  10:45:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  10:45:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  10:46:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  10:46:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  10:46:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  10:46:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/18  10:47:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  10:47:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  10:49:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/18  10:54:00.0  XRT_Custom_430_OG [0x1ae]
2017/11/18  10:55:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  11:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  11:24:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  11:24:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  11:25:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 4d db 01 ca
2017/11/18  11:25:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  11:25:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  11:25:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  11:25:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  11:25:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  11:27:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  11:27:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  11:28:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  11:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  11:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  11:54:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  11:55:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 44 fd 01 ca
2017/11/18  11:55:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  11:55:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  11:55:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  11:55:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  11:55:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  11:57:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  11:57:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  11:58:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  12:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  12:24:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  12:24:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  12:25:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                        AOCU_NM              5 02-76 00 3c 18 01 ca
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2017/11/18  12:25:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  12:25:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  12:25:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  12:25:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  12:25:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  12:27:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  12:27:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  12:28:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  12:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  12:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  12:54:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  12:55:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 33 33 01 ca
2017/11/18  12:55:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  12:55:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  12:55:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  12:55:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  12:55:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  12:57:56.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2017/11/18  12:57:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  12:58:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  13:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  13:24:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  13:24:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  13:25:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                    AOCU_NM              5 02-76 00 2a 4d 01 ca
2017/11/18  13:25:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  13:25:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  13:25:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  13:25:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  13:25:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  13:27:56.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2017/11/18  13:27:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  13:28:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  13:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  13:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  13:54:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  13:55:00.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                    AOCU_NM              5 02-76 00 21 68 01 ca
2017/11/18  13:55:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  13:55:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  13:55:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  13:55:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  13:55:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  13:57:56.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2017/11/18  13:57:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  13:58:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  14:34:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  14:34:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  14:34:04.0  XRT_FLD_RESET_415_OG [0x19f]
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                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  14:34:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/18  14:37:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/18  14:41:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  14:41:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  14:41:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  14:42:00.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                        AOCU_NM              5 02-76 00 18 8b 01 ca
2017/11/18  14:42:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  14:42:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  14:42:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  14:42:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  14:42:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  14:44:56.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2017/11/18  14:44:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  14:45:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  15:11:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  15:11:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  15:11:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  15:12:00.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                        AOCU_NM              5 02-76 00 0f a5 01 ca
2017/11/18  15:12:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  15:12:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  15:12:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  15:12:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  15:12:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  15:14:56.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2017/11/18  15:14:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  15:15:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  16:07:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  16:07:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  16:07:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  16:07:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/18  16:10:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/18  16:31:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  16:31:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  16:31:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  16:31:30.0  AOCS_ORe-point_Start_10_OG [0x0a0]
                                        AOCU_NM              5 02-76 00 06 c0 01 ca
2017/11/18  16:31:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  16:31:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  16:31:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  16:31:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  16:31:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  16:34:26.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2017/11/18  16:34:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  16:34:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  17:01:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  17:01:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  17:01:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
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2017/11/18  17:01:30.0  AOCS_ORe-point_Start_11_OG [0x0a1]
                                  AOCU_NM              5 02-76 00 fe c1 01 ca
2017/11/18  17:01:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                  MDP_XRT_FLD_DIS      1 07-F0 d9
2017/11/18  17:04:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                  MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2017/11/18  17:04:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                  MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  17:04:28.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                  MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2017/11/18  17:04:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                  MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  17:11:30.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  17:43:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  17:43:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  17:43:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  17:43:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/18  17:46:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/18  18:07:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  18:07:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  18:07:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                  XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  18:08:00.0  AOCS_ORe-point_Start_12_OG [0x0a2]
                                  AOCU_NM              5 02-76 00 f5 dc 01 ca
2017/11/18  18:08:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                  MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  18:08:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                  MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  18:08:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                  MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  18:08:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                  MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  18:08:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  18:10:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                  MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  18:10:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                  MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  18:11:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                  MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  18:37:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  18:37:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  18:37:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                  XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  18:38:00.0  AOCS_ORe-point_Start_13_OG [0x0a3]
                                  AOCU_NM              5 02-76 00 ec fe 01 ca
2017/11/18  18:38:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                  MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  18:38:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                  MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  18:38:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                  MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  18:38:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                  MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  18:38:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  18:40:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                  MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  18:40:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                  MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  18:41:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                  MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  19:20:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  19:20:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  19:20:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  19:20:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/18  19:23:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/18  19:44:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  19:44:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  19:44:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                  XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  19:45:00.0  AOCS_ORe-point_Start_14_OG [0x0a4]
                                  AOCU_NM              5 02-76 00 e4 19 01 ca
2017/11/18  19:45:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                  MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  19:45:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
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                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  19:45:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  19:45:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  19:45:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  19:47:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  19:47:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  19:48:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  20:14:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  20:14:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  20:14:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  20:15:00.0  AOCS_ORe-point_Start_15_OG [0x0a5]
                                        AOCU_NM              5 02-76 00 db 34 01 ca
2017/11/18  20:15:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  20:15:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  20:15:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  20:15:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  20:15:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  20:17:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  20:17:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  20:18:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  20:57:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  20:57:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  20:57:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  20:57:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/18  21:00:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/18  21:21:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  21:21:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  21:21:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  21:22:00.0  AOCS_ORe-point_Start_16_OG [0x0a6]
                                        AOCU_NM              5 02-76 00 d2 4e 01 ca
2017/11/18  21:22:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  21:22:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  21:22:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  21:22:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  21:22:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  21:24:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  21:24:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  21:25:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  21:51:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  21:51:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  21:51:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  21:52:00.0  AOCS_ORe-point_Start_17_OG [0x0a7]
                                        AOCU_NM              5 02-76 00 c9 69 01 ca
2017/11/18  21:52:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  21:52:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  21:52:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  21:52:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  21:52:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  21:54:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  21:54:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
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2017/11/18  21:55:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  22:35:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  22:35:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  22:35:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  22:35:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/18  22:38:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/18  22:57:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  22:57:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  22:57:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  22:57:30.0  AOCS_ORe-point_Start_18_OG [0x0a8]
                                    AOCU_NM              5 02-76 00 c0 8c 01 ca
2017/11/18  22:57:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  22:57:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  22:57:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  22:57:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  22:57:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  23:00:26.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  23:00:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  23:00:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/18  23:27:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  23:27:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/18  23:27:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/18  23:27:30.0  AOCS_ORe-point_Start_19_OG [0x0a9]
                                    AOCU_NM              5 02-76 00 b7 a6 01 ca
2017/11/18  23:27:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/18  23:27:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/18  23:27:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/18  23:27:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/18  23:27:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/18  23:30:26.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/18  23:30:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/18  23:30:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/19  00:12:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  00:12:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  00:12:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  00:12:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  00:15:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  00:22:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  00:22:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  00:22:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/19  00:23:00.0  AOCS_ORe-point_Start_20_OG [0x0aa]
                                    AOCU_NM              5 02-76 00 ae c1 01 ca
2017/11/19  00:23:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/19  00:23:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/19  00:23:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/19  00:23:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/19  00:23:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  00:25:56.0  XRT_QT_PROG_SET_437_OG [0x1b5]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2017/11/19  00:25:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/19  00:26:00.0  XRT_CTRL_AUTO_408_OG [0x198]
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                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/19  00:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  00:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  00:54:58.0  XRT_FOCUS_POSITION_428_OG [0x1ac]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/19  00:55:00.0  AOCS_ORe-point_Start_21_OG [0x0ab]
                                        AOCU_NM              5 02-76 00 ad 59 00 00
2017/11/19  00:55:18.0  XRT_FLD_DIS_421_OG [0x1a5]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2017/11/19  01:09:54.0  XRT_FLRCTRL_DIS_406_OG [0x196]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2017/11/19  01:09:56.0  XRT_ARS_DIS_445_OG [0x1bd]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/19  01:09:58.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2017/11/19  01:10:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/19  02:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  02:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  02:54:58.0  XRT_FOCUS_POSITION_428_OG [0x1ac]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/19  02:55:00.0  AOCS_ORe-point_Start_22_OG [0x0ac]
                                        AOCU_NM              5 02-76 00 00 00 56 35
2017/11/19  02:55:18.0  XRT_FLD_DIS_421_OG [0x1a5]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2017/11/19  03:09:54.0  XRT_FLRCTRL_DIS_406_OG [0x196]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2017/11/19  03:09:56.0  XRT_ARS_DIS_445_OG [0x1bd]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/19  03:09:58.0  XRT_QT_PROG_SET_413_OG [0x19d]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2017/11/19  03:10:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/19  04:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  04:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  04:54:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2017/11/19  04:55:00.0  AOCS_ORe-point_Start_23_OG [0x0ad]
                                        AOCU_NM              5 02-76 04 00 00 00 00
2017/11/19  04:55:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2017/11/19  04:55:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2017/11/19  04:55:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2017/11/19  04:55:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/19  04:55:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  04:57:56.0  XRT_QT_PROG_SET_438_OG [0x1b6]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2017/11/19  04:57:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2017/11/19  05:09:00.0  XRT_Custom_430_OG [0x1ae]
2017/11/19  05:10:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/19  05:52:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  05:52:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  05:52:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2017/11/19  05:53:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2017/11/19  05:53:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2017/11/19  05:55:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2017/11/19  05:55:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2017/11/19  05:55:58.0  XRT_QT_PROG_SET_429_OG [0x1ad]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2017/11/19  05:56:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2017/11/19  06:03:00.0  AOCS_ORe-point_Start_23_OG [0x0ad]
                                        AOCU_NM              5 02-76 04 00 00 00 00
2017/11/19  06:05:00.5  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  06:05:02.5  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  06:06:00.5  XRT_TCIB_XRT_S_HTR_A_ENA_439_OG [0x1b7]
                                        TCIB_XRT_S_HTR_A_ENA 0 04-BC
2017/11/19  06:20:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  06:20:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  06:20:34.0  XRT_FLD_RESET_415_OG [0x19f]
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                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  06:20:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  06:23:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  08:01:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  08:01:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  08:01:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  08:01:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  08:04:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  09:40:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  09:40:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  09:40:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  09:40:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  09:43:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  15:06:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  15:06:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  15:06:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  15:06:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  15:09:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  16:41:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  16:41:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  16:41:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  16:41:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  16:44:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  18:18:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  18:18:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  18:18:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  18:18:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  18:21:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  19:55:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  19:55:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  19:55:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  19:55:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  19:58:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  21:32:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  21:32:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  21:32:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  21:32:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  21:35:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/19  23:10:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  23:10:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/19  23:10:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/19  23:10:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/19  23:13:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  00:47:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  00:47:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  00:47:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  00:47:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
```

```
2017/11/20  00:50:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  02:10:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  02:10:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  02:10:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  02:10:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  02:13:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  03:45:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  03:45:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  03:45:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  03:45:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  03:48:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  05:16:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  05:16:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  05:16:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  05:16:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  05:19:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  06:00:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                  AOCU_NM              5 02-76 00 00 00 00 00
2017/11/20  06:10:00.0  AOCS_ORe-point_Start_25_OG [0x0af]
                                  AOCU_NM              5 02-76 03 00 00 00 00
2017/11/20  06:56:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  06:56:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  06:56:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  06:56:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  06:59:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  08:36:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  08:36:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  08:36:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  08:36:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  08:39:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  10:17:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  10:17:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  10:17:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  10:17:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  10:20:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  15:40:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  15:40:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  15:40:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  15:40:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  15:43:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  15:57:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  15:57:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  15:57:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  15:57:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                  MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  16:00:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                  MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  17:16:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  17:16:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                  MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  17:16:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                  MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  17:16:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
```

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                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  17:19:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  18:07:00.0  AOCS_ORe-point_Start_26_OG [0x0b0]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2017/11/20  18:53:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  18:53:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  18:53:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  18:53:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  18:56:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  20:30:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  20:30:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  20:30:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  20:30:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  20:33:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  21:07:00.0  AOCS_ORe-point_Start_27_OG [0x0b1]
                                        AOCU_NM              5 02-76 02 00 00 00 00
2017/11/20  22:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  22:08:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  22:08:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  22:08:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  22:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/20  23:45:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  23:45:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/20  23:45:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/20  23:45:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/20  23:48:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  00:07:00.0  AOCS_ORe-point_Start_23_OG [0x0ad]
                                        AOCU_NM              5 02-76 04 00 00 00 00
2017/11/21  01:14:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  01:14:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  01:14:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/21  01:14:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/21  01:17:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  02:44:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  02:44:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  02:44:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/21  02:44:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/21  02:47:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  04:12:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  04:12:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  04:12:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/21  04:12:06.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/21  04:15:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  05:52:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  05:52:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  05:52:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/21  05:52:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/21  05:55:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  06:29:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2017/11/21  06:39:00.0  AOCS_ORe-point_Start_23_OG [0x0ad]
                                        AOCU_NM              5 02-76 04 00 00 00 00
```

```
2017/11/21  07:32:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  07:32:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  07:32:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/21  07:32:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/21  07:35:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  09:12:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  09:12:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  09:12:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/21  09:12:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/21  09:15:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  10:54:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  10:54:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2017/11/21  10:54:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2017/11/21  10:54:36.0  XRT_PREFLR_STRT_449_OG [0x1c1]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2017/11/21  10:57:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2017/11/21  11:26:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                        AOCU_NM              5 02-76 00 00 00 00 00
```