

XRT Timeline to be uploaded on 2016/09/03

Period: 2016/09/03 10:29:00 - 2016/09/08 11:15:00

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Normal mode

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XOB #1B07: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with

| Term | Pointing (x, y) | Comment |
|---------------------------------|--|--|
| 09/03 10:48:00 - 09/03 16:39:54 | Track (-602.9, 9.1) @ 09/03 10:39:00 | # OP start + 10min - AR12585 |
| 09/04 00:16:30 - 09/04 05:47:24 | Track (-503.7, 0.0) @ 09/04 00:00:00 | AR12585 cont. |
| 09/04 06:00:30 - 09/04 09:35:00 | Track (-456.6, -3.5) @ 09/04 05:57:30 | AR12585 cont. |
| 09/04 16:03:00 - 09/04 16:36:00 | Track (-373.7, -8.6) @ 09/04 16:00:00 | AR12585 cont. |
| 09/05 00:03:00 - 09/05 05:59:54 | Track (-305.1, -12.0) @ 09/05 00:00:00 | AR12585 cont. |
| 09/05 06:13:00 - 09/05 09:52:54 | Track (-250.9, -14.1) @ 09/05 06:10:00 | AR12585 cont. |
| 09/05 14:13:00 - 09/05 16:44:54 | Track (-179.3, -16.2) @ 09/05 14:10:00 | AR12585 cont. |
| 09/05 23:33:00 - 09/06 05:47:30 | Track (-94.3, -17.8) @ 09/05 23:30:00 | AR12585 cont. |
| 09/06 06:37:06 - 09/06 10:49:30 | Track (-29.4, -18.4) @ 09/06 06:34:00 | AR12585 cont. |
| PROG= 20 Inf.-time(s) | | |
| └─ Subr= 1 1-time(s) 2.0sec | | |
| └─ Seqn= 56 1-time(s) 2.0sec | | |
| └─ Open/G-band | Open/G-band open Safe Norm 3ms Obs 1x1 384x384 (1064, 1048) | DPCM 0 0 2.0sec |
| └─ Open/G-band | Open/G-band close Safe Norm 3ms Obs 1x1 384x384 (1064, 1048) | DPCM 0 0 2.0sec |
| └─ Open/Ti-poly | Open/thick-Al close Safe Dark 16.0s Obs 1x1 384x384 (1064, 1048) | Q=98 0 0 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec | | |
| └─ Seqn= 75 5-time(s) 2.0sec | | |
| └─ Al-poly/Open | thin-Be/Open close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) | Q=95 2 0 2.0sec |
| └─ Al-poly/Open | thin-Be/Open close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) | Q=95 3 0 2.0sec |
| └─ thin-Be/Open | med-Be/Open close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) | Q=95 2 0 2.0sec |
| └─ thin-Be/Open | med-Be/Open close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) | Q=95 3 0 2.0sec |
| └─ Seqn= 96 8-time(s) 360.0sec | | |
| └─ Al-poly/Open | thin-Be/Open close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) | Q=95 1 0 2.0sec |
| └─ thin-Be/Open | med-Be/Open close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) | Q=95 1 0 15.0sec |
| └─ Al-poly/Open | thin-Be/Open close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) | Q=95 1 1 2.0sec |
| └─ thin-Be/Open | med-Be/Open close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) | Q=95 1 1 15.0sec |
| └─ Al-poly/Open | thin-Be/Open close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) | Q=95 1 2 2.0sec |
| └─ thin-Be/Open | med-Be/Open close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) | Q=95 1 2 2.0sec |
| Default Filter | Thicker Filter VLS mode image Exp. CCD Bin | ROI: size (center) Comp. AEC Buffer Interval |

XOB #1B0A: Synoptic Q95 2x2 - Al/mesh(12/181/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(24/362/1443) + T

| Term | Pointing (x, y) | Comment |
|---------------------------------|---|--|
| 09/03 16:43:00 - 09/03 16:49:54 | Fixed (0.0, 0.0) | synoptic, shifted -80 min |
| 09/04 05:50:30 - 09/04 05:57:24 | Fixed (0.0, 0.0) | synoptic, shifted -12.5 min |
| 09/04 17:03:00 - 09/04 17:09:54 | Fixed (0.0, 0.0) | synoptic, shifted -60 min |
| 09/05 06:03:00 - 09/05 06:09:54 | Fixed (0.0, 0.0) | synoptic |
| 09/05 16:48:00 - 09/05 16:54:59 | Fixed (0.0, 0.0) | synoptic, shifted 75.0 min |
| 09/06 06:27:00 - 09/06 06:33:59 | Fixed (0.0, 0.0) | synoptic, shifted 24.0 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= 91 1-time(s) 2.0sec | | |
| └─ Open/Al-mesh | Open/Al-mesh close Safe Norm 12ms Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ Open/Al-mesh | Open/Al-mesh close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ Open/Al-mesh | Open/Al-mesh close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ Seqn= 93 1-time(s) 2.0sec | | |
| └─ Al-poly/Open | Al-poly/Open close Safe Norm 24ms Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ Al-poly/Open | Al-poly/Open close Safe Norm 354ms Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ Al-poly/Open | Al-poly/thick-Al close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ Seqn= 77 1-time(s) 2.0sec | | |
| └─ thin-Be/Open | thin-Be/Open close Safe Norm 86ms Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ thin-Be/Open | thin-Be/Open close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ thin-Be/Open | thin-Be/Open close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| └─ Seqn= 54 1-time(s) 2.0sec | | |
| └─ Open/G-band | Open/G-band open Safe Norm 3ms Obs 1x1 2048x2048 (1024, 1024) | Q=90 0 0 2.0sec |
| └─ Open/G-band | Open/G-band close Safe Norm 3ms Obs 1x1 2048x2048 (1024, 1024) | Q=95 0 0 2.0sec |
| Default Filter | Thicker Filter VLS mode image Exp. CCD Bin | ROI: size (center) Comp. AEC Buffer Interval |

XOB #1B52: HOP 324 Quiscent Filament near AR 90s cadence at 1064 1048 Al/poly Thin-Be long/short pairs

| Term | Pointing (x, y) | Comment |
|---------------------------------|---|---------|
| 09/03 16:53:00 - 09/03 20:52:00 | Track (-241.2, 173.6) @ 09/03 16:50:00 | HOP324 |
| 09/04 17:13:00 - 09/04 20:59:54 | Track (-32.3, 169.5) @ 09/04 17:10:00 | HOP324 |
| 09/05 16:58:06 - 09/05 20:59:54 | Track (173.4, 171.4) @ 09/05 16:55:00 | HOP324 |
| PROG= 18 Inf.-time(s) | | |
| └─ Subr= 1 1-time(s) 2.0sec | | |

| | | | | | | | | | | | |
|----------------|----------------|-----------|------------|------|---------|----------------------|-------|------------|----------|--------|--|
| Seqn= 89 | | 1-time(s) | 90.0sec | | | | | | | | |
| Al-poly/Open | thin-Be/Open | close | Safe Norm | 4ms | Obs 2x2 | 768x768 (1064, 1048) | Q=95 | 2 | 0 | 2.0sec | |
| Al-poly/Open | thin-Be/Open | close | Safe Norm | 4ms | Obs 2x2 | 768x768 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 8ms | Obs 2x2 | 768x768 (1064, 1048) | Q=95 | 2 | 0 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 8ms | Obs 2x2 | 768x768 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec | |
| Default Filter | Thicker Filter | VLS | mode image | Exp. | CCD Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | | |

XOB #1B48: HOP316 (Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, thin-Be, and Med-Be context, with G-band (3ms/3ms VLS=CLS)

| | | |
|---------------------------------|------------------------|-------------------------|
| Term | Pointing (x, y) | Comment |
| 09/03 21:16:30 - 09/03 23:59:54 | Fixed (850.0, -400.0) | HOP316 on the west limb |
| 09/04 21:03:00 - 09/04 23:59:54 | Fixed (850.0, -400.0) | HOP316 on the west limb |

PROG= 02 Inf.-time(s)

| | | | | | | | | | | | |
|----------------|----------------|-----------|------------|-------|---------|----------------------|-------|------------|----------|---------|--|
| Subr= 1 | | 1-time(s) | 2.0sec | | | | | | | | |
| Seqn= 56 | | 1-time(s) | 2.0sec | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe Norm | 3ms | Obs 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec | |
| Open/G-band | Open/G-band | close | Safe Norm | 3ms | Obs 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec | |
| Open/Ti-poly | Open/thick-Al | close | Safe Dark | 16.0s | Obs 1x1 | 384x384 (1064, 1048) | Q=98 | 0 | 0 | 2.0sec | |
| Subr= 2 | | 5-time(s) | 2.0sec | | | | | | | | |
| Seqn= 48 | | 1-time(s) | 2.0sec | | | | | | | | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 500ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 2 | 0 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 500ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec | |
| med-Be/Open | Open/thick-Al | close | Safe Norm | 1.00s | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 2 | 0 | 2.0sec | |
| med-Be/Open | Open/thick-Al | close | Safe Norm | 1.00s | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec | |
| Seqn= 96 | | 5-time(s) | 60.0sec | | | | | | | | |
| Al-poly/Open | thin-Be/Open | close | Safe Norm | 250ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 1 | 0 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 500ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 1 | 0 | 15.0sec | |
| Al-poly/Open | thin-Be/Open | close | Safe Norm | 250ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 1 | 1 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 500ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 1 | 1 | 15.0sec | |
| Al-poly/Open | thin-Be/Open | close | Safe Norm | 250ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 1 | 2 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 500ms | Obs 1x1 | 384x384 (1064, 1048) | Q=95 | 1 | 2 | 2.0sec | |
| Default Filter | Thicker Filter | VLS | mode image | Exp. | CCD Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | | |

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

| | | |
|---------------------------------|-----------------------|-------------------|
| Term | Pointing (x, y) | Comment |
| 09/04 09:53:30 - 09/04 15:59:54 | Fixed (-26.0, 866.0) | HOP206 North Pole |

PROG= 15 Inf.-time(s)

| | | | | | | | | | | | |
|----------------|----------------|------------|------------|-------|---------|----------------------|-------|------------|----------|--------|--|
| Subr= 1 | | 1-time(s) | 2.0sec | | | | | | | | |
| Seqn= 9 | | 2-time(s) | 2.0sec | | | | | | | | |
| Open/G-band | Open/G-band | close | Safe Norm | 3ms | Obs 1x1 | 384x384 (1064, 1048) | DPCM | 0 | 0 | 2.0sec | |
| Subr= 2 | | 1-time(s) | 2.0sec | | | | | | | | |
| Seqn= 7 | | 1-time(s) | 30.0sec | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe Norm | 3ms | Obs 1x1 | 384x384 (1064, 1048) | Q=90 | 0 | 0 | 2.0sec | |
| Subr= 3 | | 30-time(s) | 2.0sec | | | | | | | | |
| Seqn= 24 | | 1-time(s) | 60.0sec | | | | | | | | |
| Open/Al-mesh | Open/thick-Al | close | Safe Norm | 5.66s | Obs 1x1 | 384x384 (1064, 1048) | Q=90 | 0 | 0 | 2.0sec | |
| Al-poly/Open | Al-poly/Open | close | Safe Norm | 8.00s | Obs 1x1 | 384x384 (1064, 1048) | Q=90 | 0 | 0 | 2.0sec | |
| Default Filter | Thicker Filter | VLS | mode image | Exp. | CCD Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | | |

XOB #1B50: HOP325 MinXSS X-cal - multi-filters 4x4 - short exp

| | | |
|---------------------------------|-------------------|---------|
| Term | Pointing (x, y) | Comment |
| 09/05 09:56:00 - 09/05 10:12:00 | Fixed (0.0, 0.0) | HOP325 |

PROG= 06 2-time(s)

| | | | | | | | | | | | |
|--------------|--------------|-----------|-----------|-------|---------|------------------------|------|---|---|--------|--|
| Subr= 1 | | 1-time(s) | 2.0sec | | | | | | | | |
| Seqn= 60 | | 1-time(s) | 2.0sec | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe Norm | 4ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| Al-poly/Open | Al-poly/Open | close | Safe Norm | 125ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| Al-poly/Open | Al-poly/Open | close | Safe Norm | 500ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| Seqn= 62 | | 1-time(s) | 2.0sec | | | | | | | | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 16ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 500ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| thin-Be/Open | med-Be/Open | close | Safe Norm | 1.00s | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| Seqn= 4 | | 1-time(s) | 2.0sec | | | | | | | | |
| med-Be/Open | med-Be/Open | close | Safe Norm | 125ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| med-Be/Open | med-Be/Open | close | Safe Norm | 1.41s | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| med-Be/Open | med-Be/Open | close | Safe Norm | 4.00s | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| Seqn= 95 | | 1-time(s) | 2.0sec | | | | | | | | |
| med-Al/Open | med-Al/Open | close | Safe Norm | 354ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| med-Al/Open | med-Al/Open | close | Safe Norm | 4.00s | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| med-Al/Open | med-Al/Open | close | Safe Norm | 16.0s | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |
| Subr= 2 | | 1-time(s) | 2.0sec | | | | | | | | |
| Seqn= 2 | | 1-time(s) | 2.0sec | | | | | | | | |
| med-Al/Open | med-Al/Open | close | Safe Dark | 12ms | Obs 4x4 | 2048x2048 (1024, 1024) | DPCM | 0 | 0 | 2.0sec | |
| med-Al/Open | med-Al/Open | close | Safe Dark | 1.00s | Obs 4x4 | 2048x2048 (1024, 1024) | DPCM | 0 | 0 | 2.0sec | |
| med-Al/Open | med-Al/Open | close | Safe Dark | 32.0s | Obs 4x4 | 2048x2048 (1024, 1024) | DPCM | 0 | 0 | 2.0sec | |
| Subr= 3 | | 1-time(s) | 2.0sec | | | | | | | | |
| Seqn= 82 | | 1-time(s) | 2.0sec | | | | | | | | |
| Open/Al-mesh | Open/Al-mesh | close | Safe Norm | 4ms | Obs 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec | |

| | | | | | | | | | | | | |
|----------------------------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 707ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Seqn= 31 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/thick-Al | Open/thick-Be | close | Safe | Norm | 16.0s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/thick-Al | Open/thick-Be | close | Safe | Norm | 32.0s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Seqn= 64 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/thick-Be | Open/thick-Be | close | Safe | Norm | 32.0s | Obs | 4x4 | 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 #1ADF: Synoptic 7 Filter w/ Al-mesh(8/128/1024), Al-poly(16/362/1443), Thin-Be(88/1024/5795) - Thick-Be(65536), Al-poly+Ti-poly(256/2048), Med-Al(40

| Term | Pointing (x, y) | | Comment | | | | | | | | | |
|----------------------------------|-------------------|-------|-------------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| 09/05 11:05:00 - 09/05 14:09:54 | Fixed (0.0, 0.0) | | HOP130 3/15 | | | | | | | | | |
| PROG= 08 1-time(s) | | | | | | | | | | | | |
| Subr= 1 1-time(s) 2.0sec | | | | | | | | | | | | |
| Seqn= 5 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 1x1 | 2048x512 (1024, 1024) | DPCM | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Dark | 500ms | Obs | 1x1 | 512x2048 (1024, 1024) | DPCM | 0 | 0 | 2.0sec |
| Seqn= 33 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 8ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 49 1-time(s) 2.0sec | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 16ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 354ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 77 1-time(s) 2.0sec | | | | | | | | | | | | |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 86ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| thin-Be/Open | thin-Be/Open | close | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Seqn= 54 1-time(s) 4.0sec | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 3ms | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=90 | 0 | 0 | 2.0sec |
| Open/G-band | Open/G-band | close | Safe | Norm | 3ms | Obs | 1x1 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| 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= 72 2-time(s) 2.0sec | | | | | | | | | | | | |
| Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Al-poly/Ti-poly | Al-poly/thick-Al | close | Safe | Norm | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Seqn= 59 2-time(s) 2.0sec | | | | | | | | | | | | |
| med-Al/Open | med-Al/thick-Al | close | Safe | Norm | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| med-Al/Open | med-Al/Open | close | Safe | Norm | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

XOB #1ADA: CME watch - 4x4 - AEC 2/3 - Be-thin (Be-Med) - Long/Short Pairs - 300s cad

| Term | Pointing (x, y) | | Comment | | | | | | | | | |
|------------------------------------|-----------------------|-------|---|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| 09/05 21:03:00 - 09/05 23:29:54 | Fixed (-950.0, 80.0) | | EIS active region temperature diagnostics | | | | | | | | | |
| PROG= 16 Inf.-time(s) | | | | | | | | | | | | |
| Subr= 1 12-time(s) 300.0sec | | | | | | | | | | | | |
| Seqn= 81 1-time(s) 4.0sec | | | | | | | | | | | | |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.41s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 2 | 0 | 2.0sec |
| thin-Be/Open | med-Be/Open | close | Safe | Norm | 1.00s | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 3 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

* * * * *

Flare mode

* * * * *

XOB #1AE7: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512

| Term | Pointing (x, y) | | Comment | | | | | | | | | |
|---------------------------------|---|--|---|--|--|--|--|--|--|--|--|--|
| 09/03 10:48:00 - 09/03 16:39:54 | Track (-602.9, 9.1) @ 09/03 10:39:00 | | # OP start + 10min - AR12585 | | | | | | | | | |
| 09/03 16:53:00 - 09/03 20:52:00 | Track (-241.2, 173.6) @ 09/03 16:50:00 | | HOP324 | | | | | | | | | |
| 09/03 21:16:30 - 09/03 23:59:54 | Fixed (850.0, -400.0) | | HOP316 on the west limb | | | | | | | | | |
| 09/04 00:16:30 - 09/04 05:47:24 | Track (-503.7, 0.0) @ 09/04 00:00:00 | | AR12585 cont. | | | | | | | | | |
| 09/04 06:00:30 - 09/04 09:35:00 | Track (-456.6, -3.5) @ 09/04 05:57:30 | | AR12585 cont. | | | | | | | | | |
| 09/04 09:53:30 - 09/04 15:59:54 | Fixed (-26.0, 866.0) | | HOP206 North Pole | | | | | | | | | |
| 09/04 16:03:00 - 09/04 16:36:00 | Track (-373.7, -8.6) @ 09/04 16:00:00 | | AR12585 cont. | | | | | | | | | |
| 09/04 17:13:00 - 09/04 20:59:54 | Track (-32.3, 169.5) @ 09/04 17:10:00 | | HOP324 | | | | | | | | | |
| 09/04 21:03:00 - 09/04 23:59:54 | Fixed (850.0, -400.0) | | HOP316 on the west limb | | | | | | | | | |
| 09/05 00:03:00 - 09/05 05:59:54 | Track (-305.1, -12.0) @ 09/05 00:00:00 | | AR12585 cont. | | | | | | | | | |
| 09/05 06:13:00 - 09/05 09:52:54 | Track (-250.9, -14.1) @ 09/05 06:10:00 | | AR12585 cont. | | | | | | | | | |
| 09/05 14:13:00 - 09/05 16:44:54 | Track (-179.3, -16.2) @ 09/05 14:10:00 | | AR12585 cont. | | | | | | | | | |
| 09/05 16:58:06 - 09/05 20:59:54 | Track (173.4, 171.4) @ 09/05 16:55:00 | | HOP324 | | | | | | | | | |
| 09/05 21:03:00 - 09/05 23:29:54 | Fixed (-950.0, 80.0) | | EIS active region temperature diagnostics | | | | | | | | | |
| 09/05 23:33:00 - 09/06 05:47:30 | Track (-94.3, -17.8) @ 09/05 23:30:00 | | AR12585 cont. | | | | | | | | | |
| 09/06 06:37:06 - 09/06 10:49:30 | Track (-29.4, -18.4) @ 09/06 06:34:00 | | AR12585 cont. | | | | | | | | | |
| PROG= 07 30-time(s) | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--|----------------|------------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1 20-time(s) 2.0sec | | | | | | | | | | | | | |
| ├─ Seqn= 11 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Al-poly/Open | Al-poly/thick-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= 84 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Open/G-band | Open/G-band | open | Safe | Norm | 3ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| | Open/G-band | Open/G-band | close | Safe | Norm | 3ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| | Open/thick-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

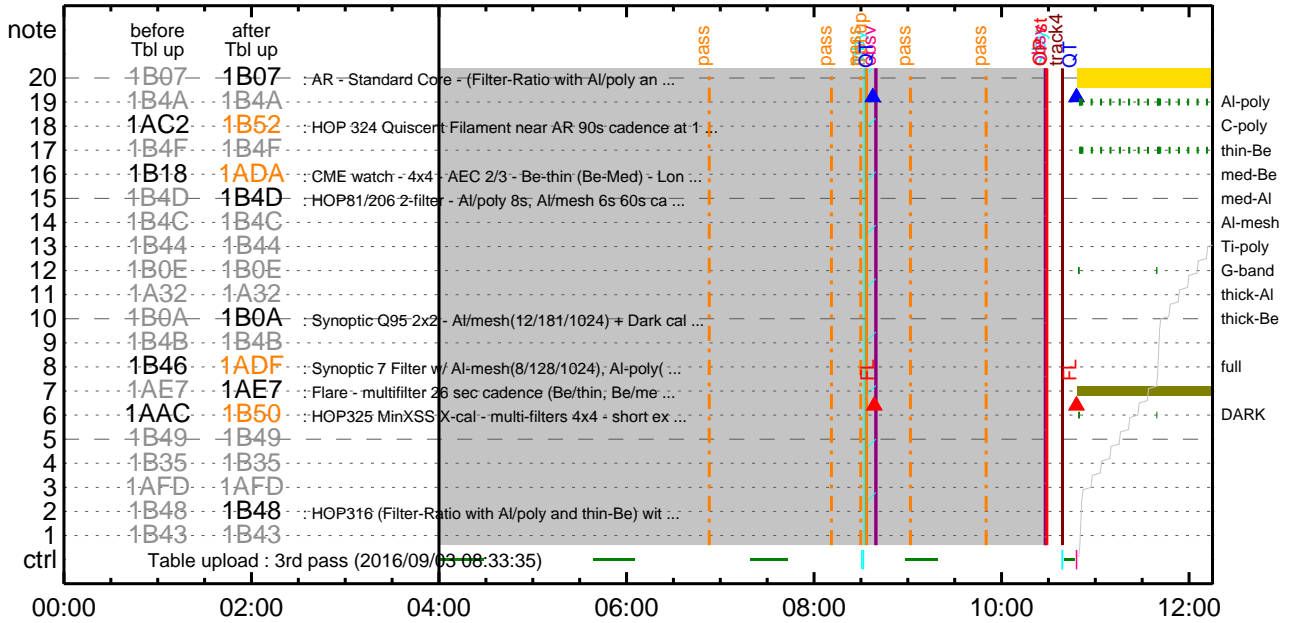
* * * * *

Flare Detection

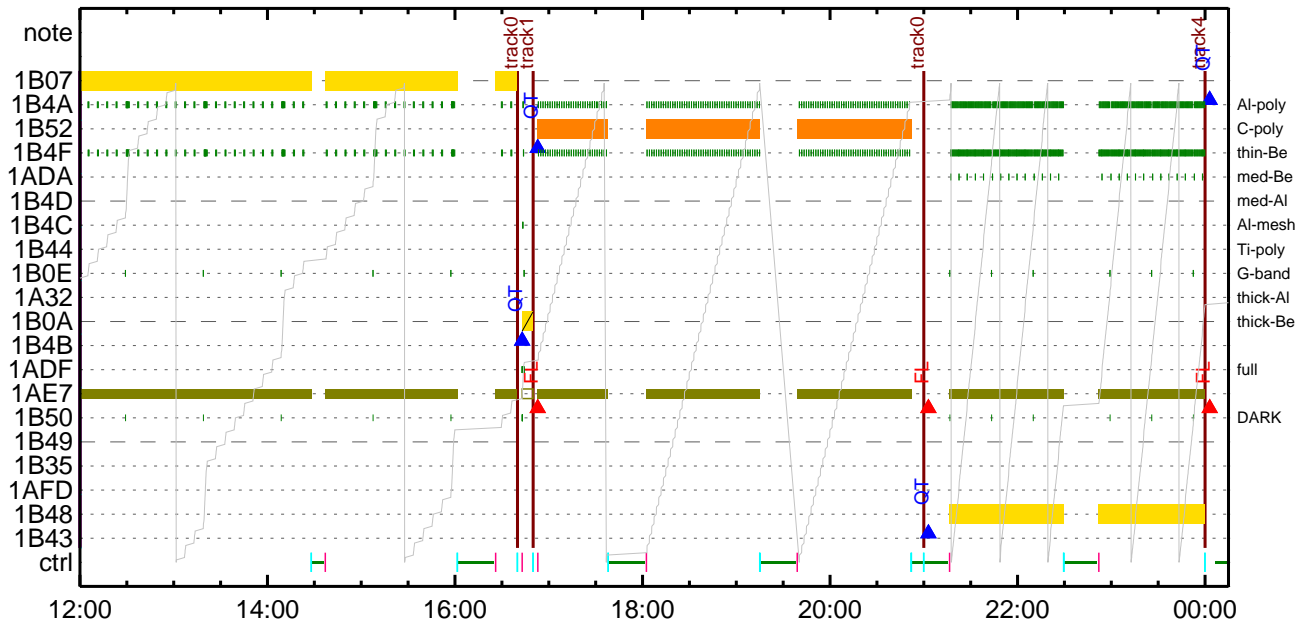
* * * * *

| FLD Patrol | | | | | | | | | | | | |
|---------------------------------|-----------------|----------------|--------|------------------|------------------------------|------|-----|-----|--------------------|-------|------------|----------|
| Term | Pointing (x, y) | | | | | | | | Comment | | | |
| 09/03 10:39:18 - 09/03 16:40:18 | Track (| -602.9, | 9.1) | @ 09/03 10:39:00 | # OP start + 10min - AR12585 | | | | | | | |
| 09/03 16:50:18 - 09/04 05:47:48 | Track (| -241.2, | 173.6) | @ 09/03 16:50:00 | HOP324 | | | | | | | |
| 09/04 05:57:48 - 09/04 17:00:18 | Track (| -456.6, | -3.5) | @ 09/04 05:57:30 | AR12585 cont. | | | | | | | |
| 09/04 17:10:18 - 09/05 06:00:18 | Track (| -32.3, | 169.5) | @ 09/04 17:10:00 | HOP324 | | | | | | | |
| 09/05 06:10:18 - 09/05 09:53:18 | Track (| -250.9, | -14.1) | @ 09/05 06:10:00 | AR12585 cont. | | | | | | | |
| 09/05 14:10:18 - 09/05 16:45:18 | Track (| -179.3, | -16.2) | @ 09/05 14:10:00 | AR12585 cont. | | | | | | | |
| 09/05 16:55:23 - 09/06 06:24:18 | Track (| 173.4, | 171.4) | @ 09/05 16:55:00 | HOP324 | | | | | | | |
| 09/06 06:34:23 - 09/08 11:15:00 | Track (| -29.4, | -18.4) | @ 09/06 06:34:00 | AR12585 cont. | | | | | | | |
| | Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 8ms | Obs | 8x8 | | Q=50 | | 30sec |
| | Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

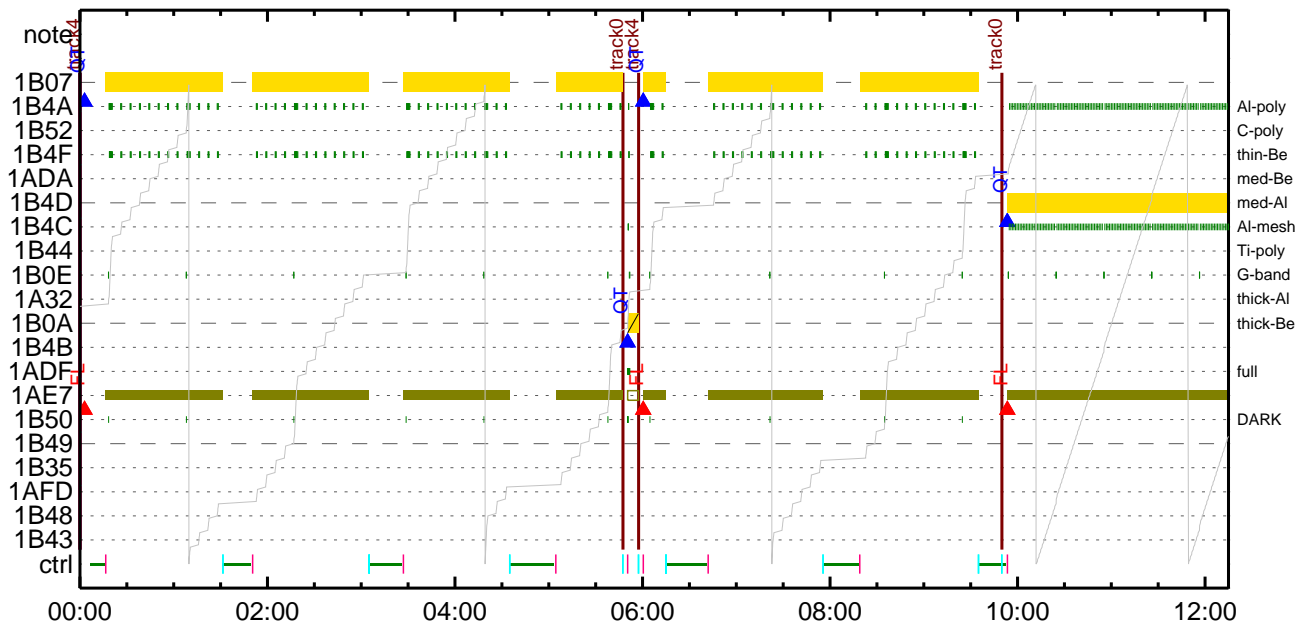
CMDI #0156 2016/09/03



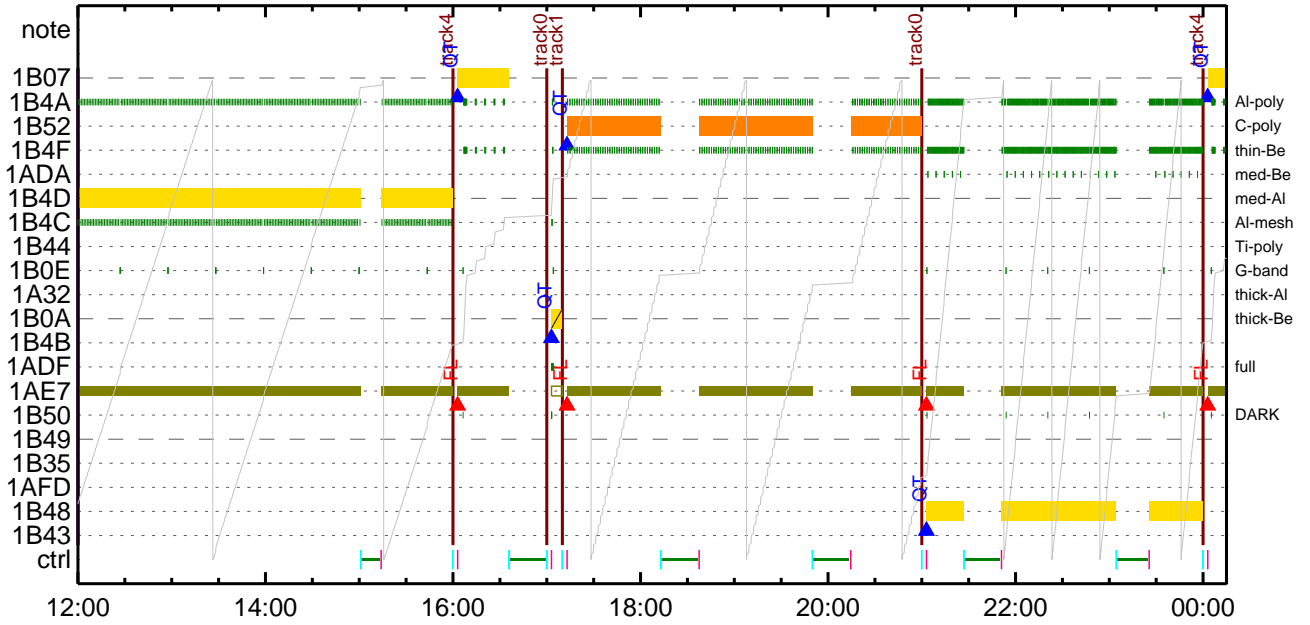
CMDI #0156 2016/09/03



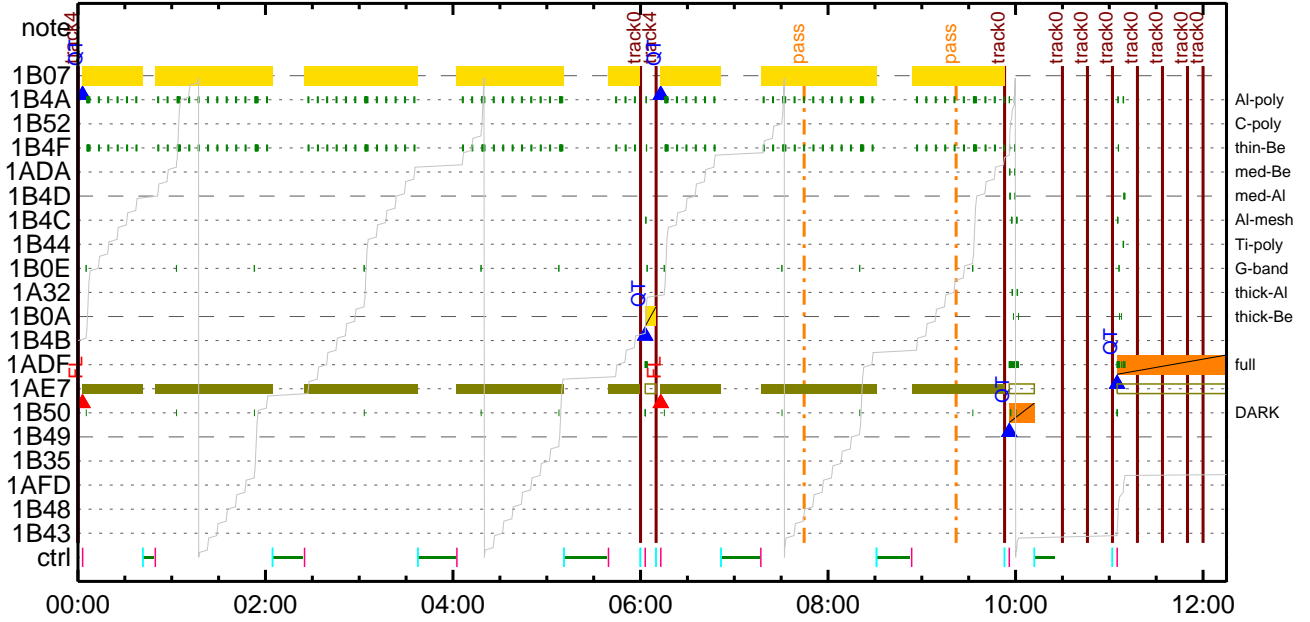
CMDI #0156 2016/09/04



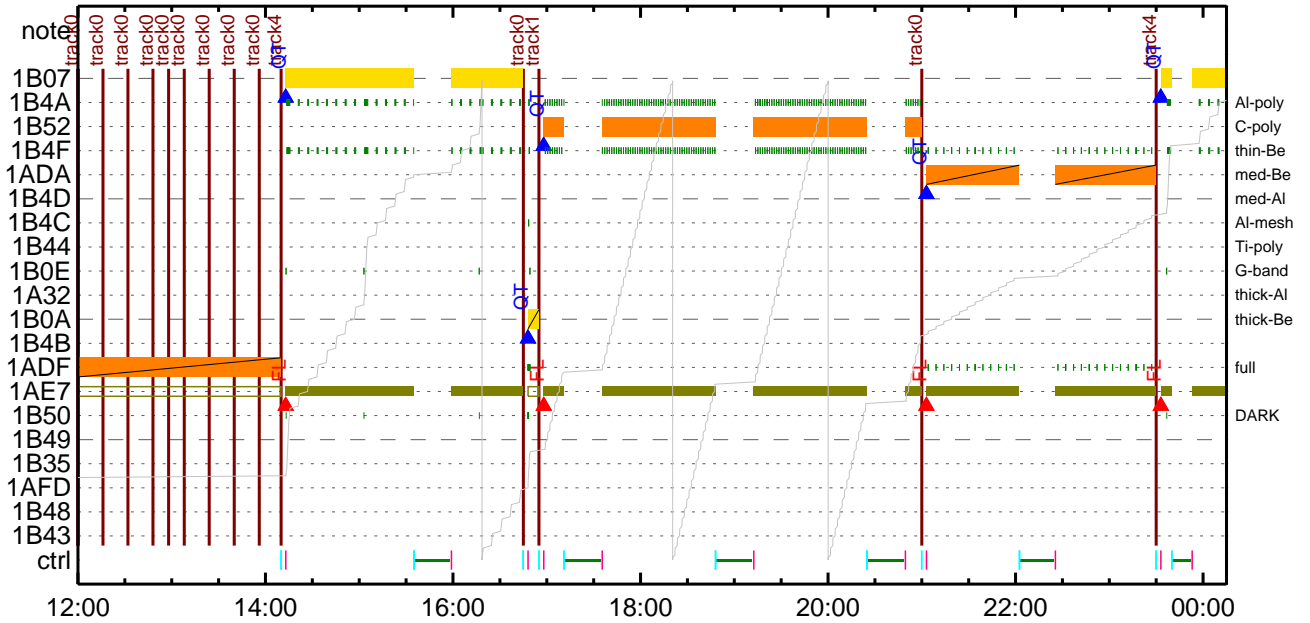
CMDI #0156 2016/09/04



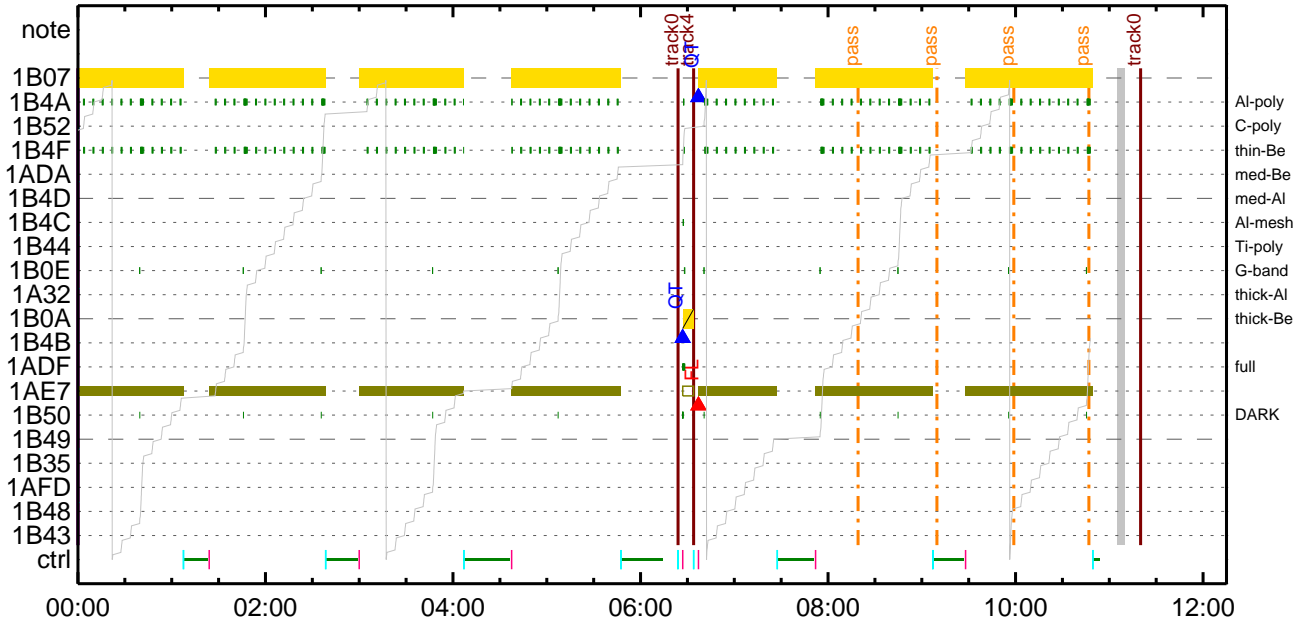
CMDI #0156 2016/09/05



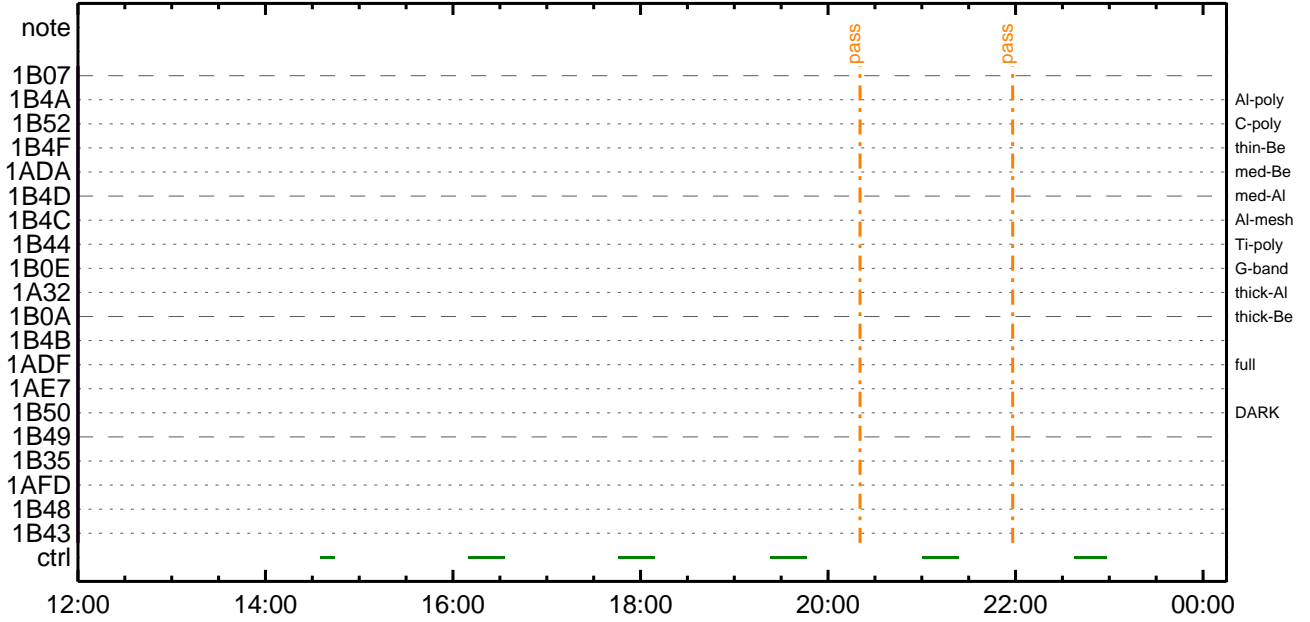
CMDI #0156 2016/09/05



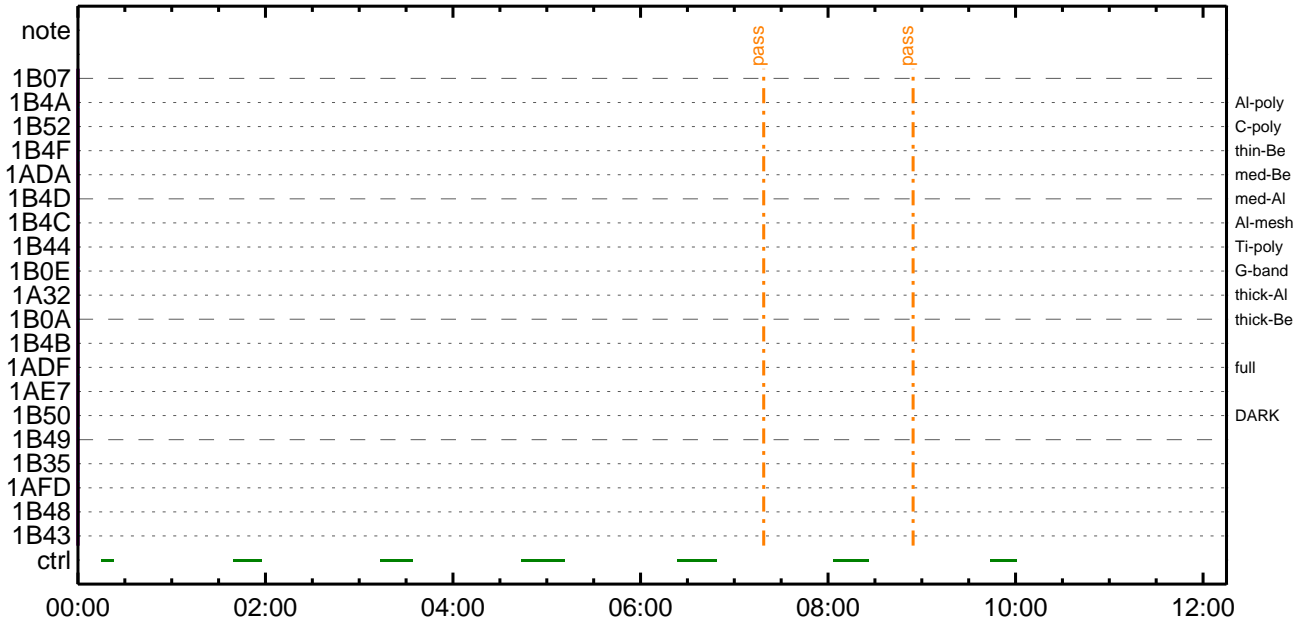
CMDI #0156 2016/09/06



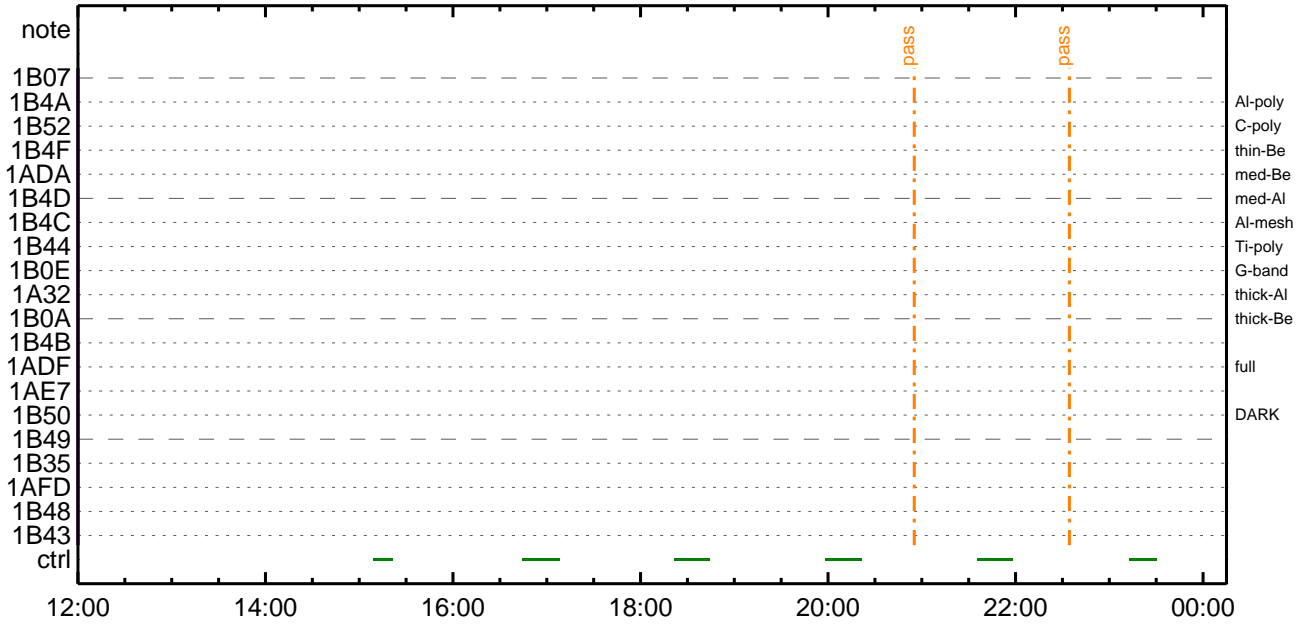
CMDI #0156 2016/09/06



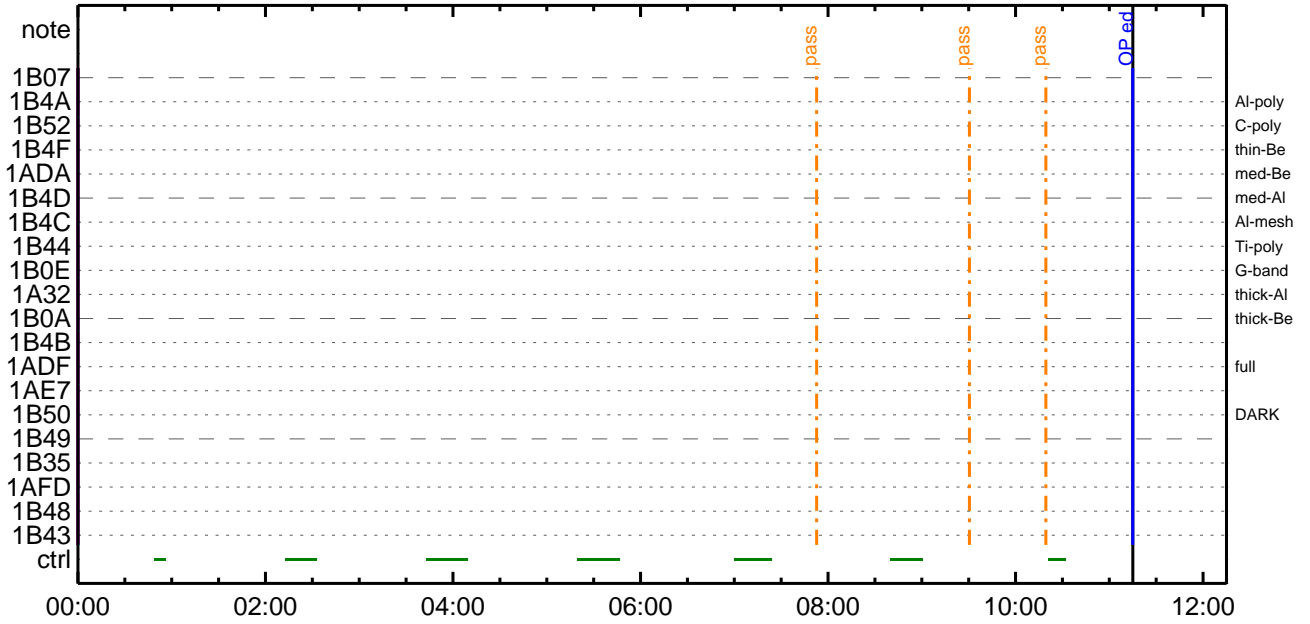
CMDI #0156 2016/09/07



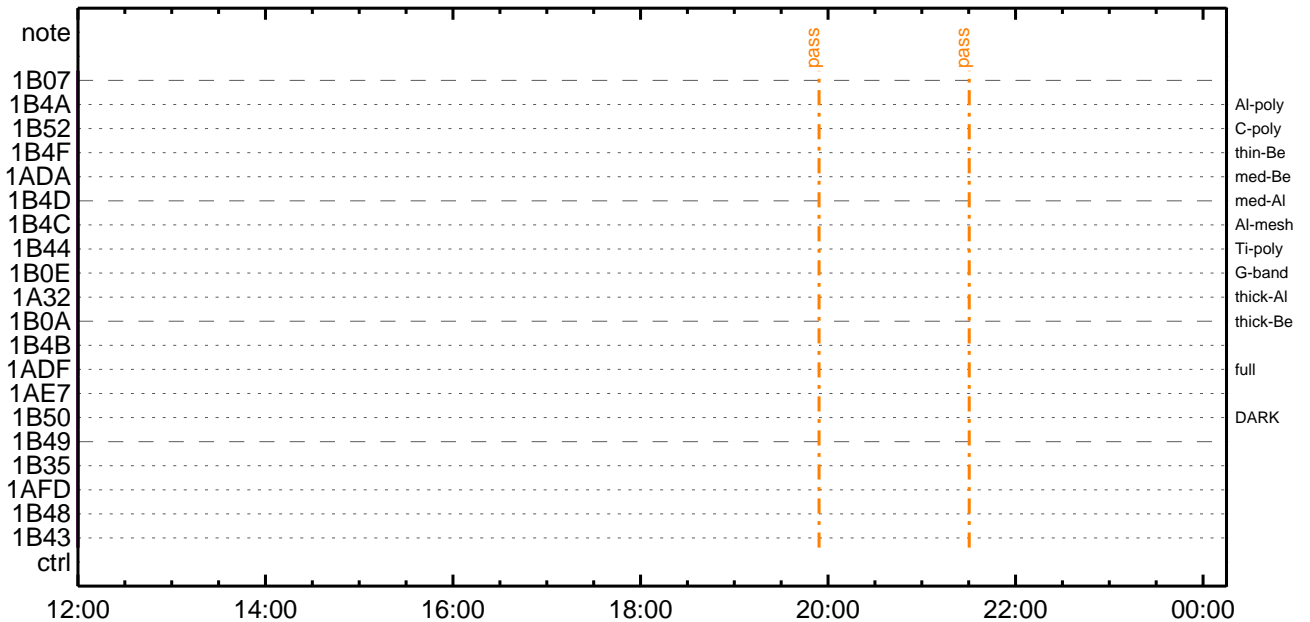
CMDI #0156 2016/09/07



CMDI #0156 2016/09/08



CMDI #0156 2016/09/08




```

0096 C.                0302; SET EDUMP I A ± 0 i Y N Y 1 0 Ç 1 Ô a | 0 3 0 E ; E
0097 C.
0098 C.  TI Y 3 Y P Y 6 Y E 0 0 d A D I j (UT)
0099 +. TI 2016-09-03 10:24:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                Ç Ç [ HK1_TI_CMD_NUM ]                EQ      1COUNTUP
0102 C.
0103 +. TI 2016-09-03 10:24:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                Ç Ç [ HK1_TI_CMD_NUM ]                EQ      1COUNTUP
0106 C.
0107 +. TI 2016-09-03 10:24:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                Ç Ç [ HK1_TI_CMD_NUM ]                EQ      1COUNTUP
0110 C.
0111 +. TI 2016-09-03 10:28:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                Ç Ç [ HK1_TI_CMD_NUM ]                EQ      1COUNTUP
0114 C.
0115 C.  ° E 2 % 0 I A Ê % i Í Ñ 0 I Y Á Y S Y Á Y - 1 à Ì Ü
0116 C.                Ç Ç [ HK1_TI_CMD_ENA/DIS ]              EQ      ENA
0117 C.                Ç Ç [ HK1_TI_CMD_NUM ]                EQ      4
0118 C.                Ç Ç [ HK1_NEXT_EXEC_PIM ]              EQ      DHU
0119 C.                Ç Ç [ HK1_NEXT_EXEC_DC ]              EQ      0xB3
0120 C.
0121 C.  *****
0122 C.  TI I Î ° È Y Á Y 6 Y X
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.                Ç Ç [ HK1_DMP_TOP_ADRS_1 ]              EQ      07
0129 C.                Ç Ç [ HK1_DMP_TOP_ADRS_0 ]              EQ      2B
0130 C.                Ç Ç [ HK1_DMP_BLOCK_NUM ]              EQ      3
0131 C.                Ç Ç [ HK1_DMP_REPEAT_NUM ]             EQ      0
0132 C.                Ç Ç [ HK1_DMA_DMP_PIM ]               EQ      DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC      (07 0b f8)
0135 C.                Ç Ç [ HK1_PKT_FORM_NO ]                EQ      7
0136 C.                Ç Ç [ HK1_PKT_GEN_TIME ]               EQ      0.25 s
0137 C.                Ç Ç [ HK1_S_TLM_BIT_RATE ]             EQ      32k
0138 C.                Ç Ç [ HK1_X_TLM_BIT_RATE ]            EQ      4M
0139 C.                Ç Ç [ HK1_DMP_CHK_FLG ]                EQ      EXEC
0140 C.
0141 C.  Y Á Y 6 Y X % 2 I » 0 d 3 Í Ç S
0142 C.                Ç Ç [ HK1_DMP_CHK_FLG ]                EQ      NON
0143 C.
0144 C.  RAM ID=TI_TBL 0 I Ê 1 Ç • È 2 I 0 K 0 d 3 Í Ç S
0145 C.
0146 C.  DHU Y á ; % Y É ; Ê % Y % , Y i ; % Y È ; Ê 0 d Ì á 0 1
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC      (02 0a f8)
0149 C.                Ç Ç [ HK1_PKT_FORM_NO ]                EQ      2
0150 C.                Ç Ç [ HK1_PKT_GEN_TIME ]               EQ      0.5S
0151 C.                Ç Ç [ HK1_S_TLM_BIT_RATE ]             EQ      32K
0152 C.                Ç Ç [ HK1_X_TLM_BIT_RATE ]            EQ      4M
0153 C.
0154 C.  *****
0155 C.  SOT TI command set
0156 C.  *****
0157 C.  Execute, after the success of OP upload.
0158 +. TI 2016-09-03 10:28:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC      (41)
0161 C.  -----
0162 C.  HK1_TI_CMD_NUM          = 1 CNTUP [ ]
0163 C.  -----
0164 C.  ***** SOT END *****
0165 C.  Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C.  ***** Start EIS operation (TI set) *****
0169 C.  Execute, after the success of OP upload.
0170 C.  Set EIS TI-commands
0171 +. TI 2016-09-03 10:28:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC      (21 02)
0174 +. TI 2016-09-03 10:28:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC      (22)
0177 C.                [ ] [ HK1_TI_CMD_NUM ]                EQ      2 COUNTUP
0178 C.  ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C.  ***** XRT START *****
0183 C.  Execute, after the success of OP upload.
0184 +. TI 2016-09-03 10:28:00.0
0185 DC 07-F0 MDP_XRT_MODE_STBY
0186 BC      (c3)
0187 C.                [ ] [ HK1_TI_CMD_NUM ]                EQ      1COUNTUP
0188 C.
0189 C.  ***** XRT END *****
0190 C.
0191 C.  ***** MDP ' Û Á Î 0 I » 0 Y 0 Ê Á D 0 1 0 È DCBC • X 2 È *****
0192 C.  (% Á 0 I Y 0 Y Á Y È Y P Y È Y Á Y Ç Y È 0 E % 0 0 4 A » Ü 0 1 0 È )
0193 C.  DC-BC dcbc-402:DCBC

```

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



```

0096      C.
0097      C.
0098      C.
0099      . C. ***** MDP 'úÃîñî»ò¼ÿñÉÊĐñ¹ñèDCBC•x²è *****
0100      C. (¼á°íÿÓÿÃÿÈÿÞÿËÿáÿçÿèñÉ½¼ñ¼Ã»Ûñ¹ñè)
0101      . S. DC-BC dcbc-402:DCBC
0102      (MDP_known_event)
0103      C.
0104      C.
0105      . C. ***** ẂĐÿ¹•Ï Daily±¿îÑñÉ´Øñ¹ñèDCBC•x²è *****
0106      . S. DC-BC dcbc-153:DCBC
0107      (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0108      C.
0109      C.
0110      . C. ¡ãLOSÿÁÿŞÿÃÿ~¼Ã»Û¿ä
0111      C.
0112      . C. ***** LOS *****
0113      C.

```

(a) Spacecraft Operation Procedure (real-commands)

```

main-092 2016-09-03 12:25:54 150 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;Èó¿óÁó•µ°È»Í×ÁÇóíYçYÁY×Yí;¼YÉ;ÈÈ%µ•íÉ;ÈóÈ¼°ÇÓó•ó¿¼l¹çóí;çÁ®, ùó¹óÈóBóÇÁ+¿®ó•óÈóóó³óÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ( )
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCS Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCS DUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 C.
0046 C. ***** XRT START *****
0047 C.
0048 +. DC 07-F0 MDP_XRT_CTRL_MANU
0049 BC (c1)
0050 +. DC 07-F0 MDP_XRT_CTRL_MANU
0051 BC (c1)
0052 +. DC 07-F0 MDP_XRT_MODE_STBY
0053 BC (c3)
0054 . C. ----- Success Verify ? OK / NG_____
0055 C.
0056 C. XRT Obs. Table Upload
0057 . S. RAM ram-291:MDP_OBS_X
0058 ( )
0059 C.
0060 +. DC 07-F0 MDP_DUMP_XRTTBL
0061 BC (84 07 00 00 00 3a d4)
0062 . C. ----- Comparison Check ? OK / ERR _____
0063 C.
0064 C.
0065 +. DC 07-F0 MDP_XRT_ROI_SET
0066 BC (cd 01 b1 b1 04 04)
0067 +. DC 07-F0 MDP_XRT_ROI_SET
0068 BC (cd 02 b1 b1 08 08)
0069 +. DC 07-F0 MDP_XRT_ROI_SET
0070 BC (cd 03 b1 b1 08 08)
0071 +. DC 07-F0 MDP_XRT_ROI_SET
0072 BC (cd 04 b1 b1 06 06)
0073 +. DC 07-F0 MDP_XRT_ROI_SET
0074 BC (cd 06 85 83 06 06)
0075 +. DC 07-F0 MDP_XRT_ROI_SET
0076 BC (cd 07 80 80 20 20)
0077 +. DC 07-F0 MDP_XRT_ROI_SET
0078 BC (cd 08 80 80 20 08)
0079 +. DC 07-F0 MDP_XRT_ROI_SET
0080 BC (cd 09 80 80 08 20)
0081 +. DC 07-F0 MDP_XRT_ROI_SET
0082 BC (cd 0a 85 83 0c 0c)
0083 +. DC 07-F0 MDP_XRT_ROI_SET
0084 BC (cd 0f 80 80 06 06)
0085 +. DC 07-F0 MDP_XRT_ROI_SET
0086 BC (cd 10 80 80 08 08)
0087 +. DC 07-F0 MDP_XRT_FLD_DIS
0088 BC (d9)
0089 +. DC 07-F0 MDP_XRT_FLRCTRL_DIS
0090 BC (c9)
0091 +. DC 07-F0 MDP_XRT_ARS_DIS
0092 BC (d5)
0093 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0094 BC (c4 14)
0095 +. DC 07-F0 MDP_XRT_FL_PROG_SET

```

```

0096 BC (c5 07)
0097 . C. ----- Success Verify ? OK / NG ____
0098 C.
0099 C.
0100 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0101 C.
0102 +. DC 07-F0 MDP_XRT_MODE_OBSV
0103 BC (c2)
0104 +. TI 2016-09-03 10:28:02.0
0105 DC 07-F0 MDP_XRT_MODE_OBSV
0106 BC (c2)
0107 . C. ----- Success Verify ? OK / NG ____
0108 C.
0109 C. ***** XRT END *****
0110 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0111 +. DC 07-FC EIS_MODE_CHG_ENA
0112 BC (20)
0113 . C. Verify EIS_MODE_CHG_FLG is ENA
0114 +. DC 07-FC EIS_MODE_MANU
0115 BC (21 02)
0116 . C. Verify EIS in MANUAL mode
0117 . C. Estimated OBSTBL upload time is 51s
0118 C. *****
0119 C. EIS START OBSTBL LOAD
0120 C. *****
0121 . S. RAM ram-820:EIS_OBSTBL
0122 ( )
0123 +. DC 07-FC EIS_DUMP_OBSTBL
0124 BC (07 07 07 00 00 70 00)
0125 C.
0126 C. Execute, after the success of OBSTBL upload.
0127 C. Set EIS TI-commands
0128 +. TI 2016-09-03 10:28:50.0
0129 DC 07-FC EIS_MODE_CHG_ENA
0130 BC (20)
0131 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0132 C. *****
0133 C. EIS END OBSTBL LOAD
0134 C. *****
0135 C.
0136 . C. ***** MDP `uAÎaÎ»ô%YnEÂDn¹nèDCBC•x²è *****
0137 C. (%a°iYôYÁYÈYÏYËYáYçYènE%¼n¼A»Ûn¹nè)
0138 . S. DC-BC dcbc-402:DCBC
0139 (MDP_known_event)
0140 C.
0141 C.
0142 . C. ***** YDÿ¹.Ï Daily±;iÎnE`Øn¹nèDCBC•x²è *****
0143 . S. DC-BC dcbc-153:DCBC
0144 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0145 C.
0146 C.
0147 . C. ;ãLOSŸÁŸSŸÄŸ~¼A»Û;ã
0148 C.
0149 . C. ***** LOS *****
0150 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-093 2016-09-03 12:25:54 61 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFÝÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿¿ÁÁ•µ°È»Í×ÁÇ¿ÍYçYÁY×Yí;¼YÉ;ÈÈ%µ•ííÈ;ÈÈ¼°ÇÓÁ•¿¿¼í¹çÁÍ;çÁ®, ù¹ÁÈÁÁÇÁ+¿®Á•ÁÈÁÁÁ³ÁÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop SP table >
0018 +. DC 07-F0 MDP_SP_CTRL_MANU
0019 BC (61)
0020 C. -----
0021 C. MDP_SP_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload SP Observation Table>
0025 . S. RAM ram-289:MDP_OBS_S
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_S >
0029 +. DC 07-F0 MDP_DUMP_SPTBL
0030 BC (83 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_S verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 C. *****
0036 C. SOT TI command set
0037 C. *****
0038 C. Execute, after the success of TBL upload.
0039 +. TI 2016-09-03 10:28:18.0
0040 DC 07-F0 MDP_SOT_MODE_OBSV
0041 BC (40)
0042 C. -----
0043 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0044 C. -----
0045 C.
0046 C.
0047 . C. ***** MDP `ûÁÍÁÍ»ó¼YÁÈÁÁ¹ÁÈDCBC•x²è *****
0048 C. (¼á°íYÓYÁYÈYFÝÉYÁYçYÈÁÈ¼Á»Û¹ÁÈ)
0049 . S. DC-BC dcbc-402:DCBC
0050 (MDP_known_event)
0051 C.
0052 C.
0053 . C. ***** YDÝ¹.İ Daily±¿ÍÑÁÈ´Ø¹ÁÈDCBC•x²è *****
0054 . S. DC-BC dcbc-153:DCBC
0055 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0056 C.
0057 C.
0058 . C. ;ãLOSÁY$YÁY-¼Á»Û;ã
0059 C.
0060 . C. ***** LOS *****
0061 C.
```


0096 C.
0097 C.
0098 C.
0099 . C. ***** MDP 'úÃîñî»ò¼ŷñÊÃĐñ¹ñèDCBC•x²è *****
0100 C. (¼á°îŷÓŷÃŷÈŷŲŷÈŷáŷçŷèñÊ¼ñ¼¼Á»Ûñ¹ñè)
0101 . S. DC-BC dcbc-402:DCBC
0102 (MDP_known_event)
0103 C.
0104 C.
0105 . C. ***** ŷĐŷ¹•İ Daily±;İÑñÊ´Øñ¹ñèDCBC•x²è *****
0106 . S. DC-BC dcbc-153:DCBC
0107 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0108 C.
0109 C.
0110 . C. ;ãLOSŷÁŷŞŷÃŷ¬¼Á»Û;ã
0111 C.
0112 . C. ***** LOS *****
0113 C.

*** OP Sequence for XRT ***

| | | | | | | | |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|
| 2016/09/03 | 10:38:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 10:38:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 10:38:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | |
| 2016/09/03 | 10:39:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | | | | | |
| | | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 | | |
| 2016/09/03 | 10:39:18.0 | XRT_FLD_ENA_411_OG [0x19b] | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2016/09/03 | 10:39:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2016/09/03 | 10:39:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2016/09/03 | 10:39:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2016/09/03 | 10:39:26.0 | XRT_FLD_RESET_437_OG [0x1b5] | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/03 | 10:47:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14 | | |
| 2016/09/03 | 10:47:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | |
| 2016/09/03 | 10:48:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/03 | 14:28:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 14:28:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 14:28:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/03 | 14:28:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/03 | 14:31:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/03 | 14:36:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/03 | 14:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/03 | 16:01:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 16:01:32.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 16:01:34.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/03 | 16:01:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/03 | 16:04:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/03 | 16:25:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/03 | 16:26:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/03 | 16:39:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 16:39:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 16:39:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | |
| 2016/09/03 | 16:40:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | |
| 2016/09/03 | 16:40:18.0 | XRT_FLD_DIS_406_OG [0x196] | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | |
| 2016/09/03 | 16:42:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | |
| 2016/09/03 | 16:42:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2016/09/03 | 16:42:58.0 | XRT_QT_PROG_SET_427_OG [0x1ab] | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0a | | |
| 2016/09/03 | 16:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/03 | 16:49:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 16:49:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/03 | 16:49:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | |
| 2016/09/03 | 16:50:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | | | | | |
| | | AOCU_NM | 5 | 02-76 | 01 00 00 00 00 | | |
| 2016/09/03 | 16:50:18.0 | XRT_FLD_ENA_411_OG [0x19b] | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2016/09/03 | 16:50:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2016/09/03 | 16:50:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2016/09/03 | 16:50:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2016/09/03 | 16:50:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/03 | 16:52:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba] | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 12 | | |
| 2016/09/03 | 16:52:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | |
| 2016/09/03 | 16:53:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | |

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| | | | | | | | | | |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|--|
| 2016/09/03 | 17:38:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| | | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 17:38:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 17:38:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/03 | 17:38:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/03 | 17:41:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/03 | 18:01:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2016/09/03 | 18:02:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/03 | 19:15:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 19:15:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 19:15:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/03 | 19:15:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/03 | 19:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/03 | 19:38:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2016/09/03 | 19:39:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/03 | 20:52:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 20:52:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 20:52:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/03 | 20:52:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/03 | 20:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/03 | 20:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 20:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 20:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | |
| 2016/09/03 | 21:00:00.0 | AOCS_OrE-point_Start_4_OG [0x09a] | AOCU_NM | 5 | 02-76 | 00 23 8d b4 73 | | | |
| 2016/09/03 | 21:00:18.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | |
| 2016/09/03 | 21:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | |
| 2016/09/03 | 21:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | |
| 2016/09/03 | 21:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2016/09/03 | 21:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/03 | 21:02:56.0 | XRT_QT_PROG_SET_431_OG [0x1af] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 02 | | | |
| 2016/09/03 | 21:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | | |
| 2016/09/03 | 21:15:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2016/09/03 | 21:16:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/03 | 22:29:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 22:29:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 22:29:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/03 | 22:29:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/03 | 22:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/03 | 22:51:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2016/09/03 | 22:52:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/03 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 23:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/03 | 23:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | |
| 2016/09/04 | 00:00:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 | | | |
| 2016/09/04 | 00:00:18.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | |
| 2016/09/04 | 00:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | |
| 2016/09/04 | 00:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | |
| 2016/09/04 | 00:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2016/09/04 | 00:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |

| | | | | | | | |
|------------|------------|-----------------------------------|---------------------|---|-------|-------------|----|
| 2016/09/04 | 00:02:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 14 |
| 2016/09/04 | 00:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 07 |
| 2016/09/04 | 00:15:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 00:16:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 01:31:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 01:31:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 01:31:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/04 | 01:31:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/04 | 01:34:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/04 | 01:49:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 01:50:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 03:05:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 03:05:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 03:05:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/04 | 03:05:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/04 | 03:08:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/04 | 03:26:00.5 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 03:27:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 04:35:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 04:35:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 04:35:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/04 | 04:35:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/04 | 04:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/04 | 05:03:30.5 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 05:04:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 05:47:24.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 05:47:26.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 05:47:28.0 | XRT_FOCUS_POSITION_403_OG [0x193] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa | 00 |
| 2016/09/04 | 05:47:30.0 | AOCS_OrE-point_Start_2_OG [0x098] | AOCU_NM | 5 | 02-76 | 00 00 00 00 | 00 |
| 2016/09/04 | 05:47:48.0 | XRT_FLD_DIS_406_OG [0x196] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | |
| 2016/09/04 | 05:50:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | |
| 2016/09/04 | 05:50:26.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2016/09/04 | 05:50:28.0 | XRT_QT_PROG_SET_427_OG [0x1ab] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0a |
| 2016/09/04 | 05:50:30.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 05:57:24.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 05:57:26.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 05:57:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 | 00 |
| 2016/09/04 | 05:57:30.0 | AOCS_OrE-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 04 00 00 00 | 00 |
| 2016/09/04 | 05:57:48.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | |
| 2016/09/04 | 05:57:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | |
| 2016/09/04 | 05:57:52.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | |
| 2016/09/04 | 05:57:54.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2016/09/04 | 05:57:56.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/04 | 06:00:26.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 14 |
| 2016/09/04 | 06:00:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 07 |
| 2016/09/04 | 06:00:30.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 06:15:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 06:15:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 06:15:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|--|
| 2016/09/04 | 06:15:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/04 | 06:18:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/04 | 06:41:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/04 | 06:42:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/04 | 07:55:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 07:55:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 07:55:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/04 | 07:55:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/04 | 07:58:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/04 | 08:18:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/04 | 08:19:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 09:35:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 09:35:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 09:35:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/04 | 09:35:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/04 | 09:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/04 | 09:49:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 09:49:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 09:49:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | |
| 2016/09/04 | 09:50:00.0 | AOCS_OrE-point_Start_5_OG [0x09b] | AOCU_NM | 5 | 02-76 | 00 b3 03 02 4d | | | |
| 2016/09/04 | 09:50:18.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | |
| 2016/09/04 | 09:50:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | |
| 2016/09/04 | 09:50:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | |
| 2016/09/04 | 09:50:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2016/09/04 | 09:50:26.0 | XRT_FLD_RESET_438_OG [0x1b6] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/04 | 09:53:26.0 | XRT_QT_PROG_SET_426_OG [0x1aa] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0f | | | |
| 2016/09/04 | 09:53:28.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | | |
| 2016/09/04 | 09:53:30.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/04 | 15:01:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 15:01:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 15:01:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/04 | 15:01:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2016/09/04 | 15:04:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2016/09/04 | 15:13:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/04 | 15:14:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 15:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 15:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2016/09/04 | 15:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | |
| 2016/09/04 | 16:00:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 | | | |
| 2016/09/04 | 16:00:18.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | |
| 2016/09/04 | 16:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | |
| 2016/09/04 | 16:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | |
| 2016/09/04 | 16:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2016/09/04 | 16:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2016/09/04 | 16:02:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14 | | | |
| 2016/09/04 | 16:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | | |
| 2016/09/04 | 16:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2016/09/04 | 16:36:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |

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|------------|------------|-----------------------------------|---------------------------|---|-------|----------------|--|--|
| 2016/09/04 | 16:36:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 16:36:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 16:36:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/04 | 16:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/04 | 16:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/04 | 16:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 16:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 17:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | |
| 2016/09/04 | 17:00:18.0 | XRT_FLD_DIS_406_OG [0x196] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | |
| 2016/09/04 | 17:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | |
| 2016/09/04 | 17:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | |
| 2016/09/04 | 17:02:58.0 | XRT_QT_PROG_SET_427_OG [0x1ab] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2016/09/04 | 17:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0a | | |
| 2016/09/04 | 17:09:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/04 | 17:09:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 17:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 17:10:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | |
| 2016/09/04 | 17:10:18.0 | XRT_FLD_ENA_411_OG [0x19b] | AOCU_NM | 5 | 02-76 | 01 00 00 00 00 | | |
| 2016/09/04 | 17:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2016/09/04 | 17:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2016/09/04 | 17:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2016/09/04 | 17:10:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2016/09/04 | 17:12:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/04 | 17:12:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 12 | | |
| 2016/09/04 | 17:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | |
| 2016/09/04 | 18:13:00.5 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/04 | 18:13:03.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 18:13:06.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 18:13:08.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/04 | 18:16:16.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/04 | 18:36:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/04 | 18:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 19:50:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/04 | 19:50:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 19:50:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 19:50:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/04 | 19:53:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/04 | 20:13:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/04 | 20:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 20:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/04 | 20:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 20:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/04 | 21:00:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | |
| 2016/09/04 | 21:00:18.0 | XRT_FLD_ENA_411_OG [0x19b] | AOCU_NM | 5 | 02-76 | 00 23 8d b4 73 | | |
| 2016/09/04 | 21:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2016/09/04 | 21:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2016/09/04 | 21:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2016/09/04 | | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|
| 2016/09/04 | 21:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/04 | 21:02:56.0 | XRT_QT_PROG_SET_431_OG [0x1af] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 02 |
| 2016/09/04 | 21:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 07 |
| 2016/09/04 | 21:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 21:27:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 21:27:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 21:27:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/04 | 21:27:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/04 | 21:30:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/04 | 21:50:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 21:51:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 23:04:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 23:04:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 23:04:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/04 | 23:04:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/04 | 23:07:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/04 | 23:24:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/04 | 23:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/04 | 23:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 23:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/04 | 23:59:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe 97 00 |
| 2016/09/05 | 00:00:00.0 | AOCS_Or-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 04 | 00 00 00 00 |
| 2016/09/05 | 00:00:18.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | |
| 2016/09/05 | 00:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | |
| 2016/09/05 | 00:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | |
| 2016/09/05 | 00:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2016/09/05 | 00:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/05 | 00:02:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 14 |
| 2016/09/05 | 00:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 07 |
| 2016/09/05 | 00:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 00:41:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 00:41:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 00:41:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/05 | 00:41:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/05 | 00:44:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/05 | 00:48:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/05 | 00:49:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 02:04:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 02:04:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 02:04:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/05 | 02:04:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/05 | 02:07:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/05 | 02:24:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2016/09/05 | 02:25:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 03:37:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 03:37:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 03:37:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/05 | 03:37:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/05 | 03:40:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | |

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|------------|------------|-----------------------------------|-----------------------------------|---|-------|----------------|--|
| 2016/09/05 | 04:01:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/05 | 04:02:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | |
| 2016/09/05 | 05:11:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 05:11:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 05:11:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 05:11:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/05 | 05:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/05 | 05:38:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/05 | 05:39:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | |
| 2016/09/05 | 05:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 05:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 05:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 06:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | |
| 2016/09/05 | 06:00:18.0 | XRT_FLD_DIS_406_OG [0x196] | AOCS_Ore-point_Start_2_OG [0x098] | 5 | 02-76 | 00 00 00 00 00 | |
| 2016/09/05 | 06:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | AOCU_NM | 1 | 07-F0 | d9 | |
| 2016/09/05 | 06:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | |
| 2016/09/05 | 06:02:58.0 | XRT_QT_PROG_SET_427_OG [0x1ab] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | |
| 2016/09/05 | 06:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2016/09/05 | 06:09:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0a | |
| 2016/09/05 | 06:09:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 06:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 06:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 06:10:18.0 | XRT_FLD_ENA_411_OG [0x19b] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | |
| 2016/09/05 | 06:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | AOCS_Ore-point_Start_1_OG [0x097] | 5 | 02-76 | 04 00 00 00 00 | |
| 2016/09/05 | 06:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | AOCU_NM | 1 | 07-F0 | d8 | |
| 2016/09/05 | 06:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | |
| 2016/09/05 | 06:10:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | |
| 2016/09/05 | 06:12:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | |
| 2016/09/05 | 06:12:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2016/09/05 | 06:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/05 | 06:51:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14 | |
| 2016/09/05 | 06:51:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | |
| 2016/09/05 | 06:51:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 06:51:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 06:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 07:16:00.5 | XRT_Custom_430_OG [0x1ae] | XRT_FLD_RESET_415_OG [0x19f] | 1 | 07-F0 | da | |
| 2016/09/05 | 07:17:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2016/09/05 | 08:31:00.0 | XRT_CTRL_MANU_400_OG [0x190] | XRT_PREFLR_STRT_414_OG [0x19e] | 1 | 07-F0 | e8 | |
| 2016/09/05 | 08:31:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2016/09/05 | 08:31:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/05 | 08:31:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2016/09/05 | 08:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | XRT_CUSTOM_430_OG [0x1ae] | 1 | 07-F0 | e9 | |
| 2016/09/05 | 08:52:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2016/09/05 | 08:53:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 09:52:54.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 09:52:56.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2016/09/05 | 09:52:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | |
| 2016/09/05 | 09:53:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCS_ORe-point_Start_2_OG [0x098] | 5 | 02-76 | 00 00 00 00 00 | |

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| 2016/09/05 | 09:53:18.0 | XRT_FLD_DIS_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2016/09/05 | 09:55:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2016/09/05 | 09:55:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2016/09/05 | 09:55:58.0 | XRT_QT_PROG_SET_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 06 | | | | |
| 2016/09/05 | 09:56:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2016/09/05 | 10:12:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2016/09/05 | 10:12:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2016/09/05 | 10:12:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2016/09/05 | 10:12:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2016/09/05 | 10:15:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2016/09/05 | 10:30:00.0 | AOCS_Ore-point_Start_6_OG [0x09c] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 ac cd | | | | |
| 2016/09/05 | 10:46:00.0 | AOCS_Ore-point_Start_7_OG [0x09d] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 d6 67 | | | | |
| 2016/09/05 | 11:01:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2016/09/05 | 11:01:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2016/09/05 | 11:01:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | | | |
| 2016/09/05 | 11:02:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | |
| 2016/09/05 | 11:02:18.0 | XRT_FLD_DIS_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2016/09/05 | 11:04:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2016/09/05 | 11:04:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2016/09/05 | 11:04:58.0 | XRT_QT_PROG_SET_434_OG [0x1b2] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 08 | | | | |
| 2016/09/05 | 11:05:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2016/09/05 | 11:18:00.0 | AOCS_Ore-point_Start_8_OG [0x09e] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 29 99 | | | | |
| 2016/09/05 | 11:34:00.0 | AOCS_Ore-point_Start_9_OG [0x09f] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 53 33 | | | | |
| 2016/09/05 | 11:50:00.0 | AOCS_Ore-point_Start_10_OG [0x0a0] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 d6 36 b7 8e | | | | |
| 2016/09/05 | 12:00:00.0 | AOCS_Ore-point_Start_11_OG [0x0a1] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 b4 b5 db 75 | | | | |
| 2016/09/05 | 12:16:00.0 | AOCS_Ore-point_Start_12_OG [0x0a2] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 ac 5b 00 00 | | | | |
| 2016/09/05 | 12:32:00.0 | AOCS_Ore-point_Start_13_OG [0x0a3] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 b4 b5 24 8b | | | | |
| 2016/09/05 | 12:48:00.0 | AOCS_Ore-point_Start_14_OG [0x0a4] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 d6 36 48 72 | | | | |
| 2016/09/05 | 12:58:00.0 | AOCS_Ore-point_Start_15_OG [0x0a5] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 29 ca b7 8e | | | | |
| 2016/09/05 | 13:08:00.0 | AOCS_Ore-point_Start_16_OG [0x0a6] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 4b 4b db 75 | | | | |
| 2016/09/05 | 13:24:00.0 | AOCS_Ore-point_Start_17_OG [0x0a7] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 53 a5 00 00 | | | | |
| 2016/09/05 | 13:40:00.0 | AOCS_Ore-point_Start_18_OG [0x0a8] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 4b 4b 24 8b | | | | |
| 2016/09/05 | 13:56:00.0 | AOCS_Ore-point_Start_19_OG [0x0a9] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 29 db 48 72 | | | | |
| 2016/09/05 | 14:09:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2016/09/05 | 14:09:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2016/09/05 | 14:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2016/09/05 | 14:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 | | | | |
| 2016/09/05 | 14:10:18.0 | XRT_FLD_ENA_411_OG [0x19b] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2016/09/05 | 14:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2016/09/05 | 14:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2016/09/05 | 14:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2016/09/05 | 14:10:26.0 | XRT_FLD_RESET_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2016/09/05 | 14:12:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14 | | | | |
| 2016/09/05 | 14:12:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | | | |
| 2016/09/05 | 14:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2016/09/05 | 15:35:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2016/09/05 | 15:35:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|
| 2016/09/05 | 15:35:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 15:35:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/05 | 15:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/05 | 15:58:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/05 | 15:59:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| 2016/09/05 | 16:44:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/05 | 16:44:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 16:44:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 16:45:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | |
| 2016/09/05 | 16:45:18.0 | XRT_FLD_DIS_406_OG [0x196] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | |
| 2016/09/05 | 16:47:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | |
| 2016/09/05 | 16:47:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | |
| 2016/09/05 | 16:47:58.0 | XRT_QT_PROG_SET_427_OG [0x1ab] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2016/09/05 | 16:48:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0a | | |
| 2016/09/05 | 16:54:59.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/05 | 16:55:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 16:55:01.0 | XRT_CTRL_MANU_402_OG [0x192] | AOCU_NM | 5 | 02-76 | 01 00 00 00 00 | | |
| 2016/09/05 | 16:55:03.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 16:55:23.0 | XRT_FLD_ENA_411_OG [0x19b] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | |
| 2016/09/05 | 16:55:25.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2016/09/05 | 16:55:27.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2016/09/05 | 16:55:29.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2016/09/05 | 16:55:31.0 | XRT_FLD_RESET_433_OG [0x1b1] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2016/09/05 | 16:58:01.0 | XRT_QT_PROG_SET_442_OG [0x1ba] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/05 | 16:58:04.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 12 | | |
| 2016/09/05 | 16:58:06.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 | | |
| 2016/09/05 | 17:11:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/05 | 17:11:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 17:11:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 17:11:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/05 | 17:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/05 | 17:34:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/05 | 17:35:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| 2016/09/05 | 18:48:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/05 | 18:48:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 18:48:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 18:48:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/05 | 18:51:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/05 | 19:11:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/05 | 19:12:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| 2016/09/05 | 20:25:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2016/09/05 | 20:25:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 20:25:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2016/09/05 | 20:25:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2016/09/05 | 20:28:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2016/09/05 | 20:48:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2016/09/05 | 20:49:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| 2016/09/05 | 20:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| | | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |

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|------------|------------|---|---|-------|----------------|
| 2016/09/05 | 20:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/05 | 20:59:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2016/09/05 | 21:00:00.0 | AOCS_ORe-point_Start_20_OG [0x0aa] AOCU_NM | 5 | 02-76 | 00 f8 e6 54 72 |
| 2016/09/05 | 21:00:18.0 | XRT_FLD_ENA_411_OG [0x19b] MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2016/09/05 | 21:00:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2016/09/05 | 21:00:22.0 | XRT_AEC_RESET_448_OG [0x1c0] MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2016/09/05 | 21:00:24.0 | XRT_ARS_DIS_423_OG [0x1a7] MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2016/09/05 | 21:00:26.0 | XRT_FLD_RESET_433_OG [0x1b1] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/05 | 21:02:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8] MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 10 |
| 2016/09/05 | 21:02:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 |
| 2016/09/05 | 21:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/05 | 22:02:30.0 | XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/05 | 22:02:32.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/05 | 22:02:34.0 | XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/05 | 22:02:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2016/09/05 | 22:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2016/09/05 | 22:24:30.0 | XRT_Custom_430_OG [0x1ae] | | | |
| 2016/09/05 | 22:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/05 | 23:29:54.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/05 | 23:29:56.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/05 | 23:29:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2016/09/05 | 23:30:00.0 | AOCS_ORe-point_Start_1_OG [0x097] AOCU_NM | 5 | 02-76 | 04 00 00 00 00 |
| 2016/09/05 | 23:30:18.0 | XRT_FLD_ENA_411_OG [0x19b] MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2016/09/05 | 23:30:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2016/09/05 | 23:30:22.0 | XRT_AEC_RESET_448_OG [0x1c0] MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2016/09/05 | 23:30:24.0 | XRT_ARS_DIS_423_OG [0x1a7] MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2016/09/05 | 23:30:26.0 | XRT_FLD_RESET_433_OG [0x1b1] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/05 | 23:32:56.0 | XRT_QT_PROG_SET_446_OG [0x1be] MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14 |
| 2016/09/05 | 23:32:58.0 | XRT_FL_PROG_SET_436_OG [0x1b4] MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 |
| 2016/09/05 | 23:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/05 | 23:40:00.0 | XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/05 | 23:40:02.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/05 | 23:40:04.0 | XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/05 | 23:40:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2016/09/05 | 23:43:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2016/09/05 | 23:52:00.0 | XRT_Custom_430_OG [0x1ae] | | | |
| 2016/09/05 | 23:53:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/06 | 01:07:30.0 | XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 01:07:32.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 01:07:34.0 | XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/06 | 01:07:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2016/09/06 | 01:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2016/09/06 | 01:23:00.0 | XRT_Custom_430_OG [0x1ae] | | | |
| 2016/09/06 | 01:24:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/06 | 02:38:30.0 | XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 02:38:32.0 | XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 02:38:34.0 | XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/06 | 02:38:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |

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|------------|------------|-----------------------------------|---|-------|----------------|
| 2016/09/06 | 02:41:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2016/09/06 | 02:59:00.5 | XRT_Custom_430_OG [0x1ae] | | | |
| 2016/09/06 | 03:00:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/06 | 04:07:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 04:07:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 04:07:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/06 | 04:07:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2016/09/06 | 04:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2016/09/06 | 04:36:30.0 | XRT_Custom_430_OG [0x1ae] | | | |
| 2016/09/06 | 04:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/06 | 05:47:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 05:47:32.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 05:47:34.0 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/06 | 05:47:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2016/09/06 | 05:50:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2016/09/06 | 06:23:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 06:23:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 06:23:58.0 | XRT_FOCUS_POSITION_403_OG [0x193] | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2016/09/06 | 06:24:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |
| 2016/09/06 | 06:24:18.0 | XRT_FLD_DIS_406_OG [0x196] | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2016/09/06 | 06:26:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195] | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2016/09/06 | 06:26:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2016/09/06 | 06:26:58.0 | XRT_QT_PROG_SET_427_OG [0x1ab] | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0a |
| 2016/09/06 | 06:27:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/06 | 06:33:59.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 06:34:00.0 | AOCS_ORe-point_Start_1_OG [0x097] | | | |
| | | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 |
| 2016/09/06 | 06:34:01.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 06:34:03.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2016/09/06 | 06:34:23.0 | XRT_FLD_ENA_411_OG [0x19b] | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2016/09/06 | 06:34:25.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2016/09/06 | 06:34:27.0 | XRT_AEC_RESET_448_OG [0x1c0] | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2016/09/06 | 06:34:29.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2016/09/06 | 06:34:31.0 | XRT_FLD_RESET_433_OG [0x1b1] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/06 | 06:37:01.0 | XRT_QT_PROG_SET_446_OG [0x1be] | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14 |
| 2016/09/06 | 06:37:04.0 | XRT_FL_PROG_SET_436_OG [0x1b4] | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 07 |
| 2016/09/06 | 06:37:06.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/06 | 07:27:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 07:27:32.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 07:27:34.0 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/06 | 07:27:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2016/09/06 | 07:30:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2016/09/06 | 07:51:00.0 | XRT_Custom_430_OG [0x1ae] | | | |
| 2016/09/06 | 07:52:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2016/09/06 | 09:07:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 09:07:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2016/09/06 | 09:07:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2016/09/06 | 09:07:06.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2016/09/06 | 09:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |

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|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|--|
| 2016/09/06 | 09:27:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | | |
| 2016/09/06 | 09:28:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | | |
| 2016/09/06 | 10:49:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | | |
| 2016/09/06 | 10:49:32.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | | |
| 2016/09/06 | 10:49:34.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | | |
| 2016/09/06 | 10:49:36.0 | XRT_PREFLR_STRT_414_OG [0x19e] | | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | | |
| 2016/09/06 | 10:52:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | | |
| 2016/09/06 | 11:20:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | | |