

XRT Timeline to be uploaded on 2019/05/09

Period: 2019/05/09 10:35:00 - 2019/05/14 10:15:00

* * * * *

Normal mode

* * * * *

XOB #1BB8: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, thin-Be, thick-Al, Al/Poly context, with G-band (1ms/1ms)

| Term | Pointing (x, y) | Comment |
|---------------------------------|----------------------------------------------------|--------------------------------------------|
| 05/09 11:22:00 - 05/09 17:14:54 | Track (-159.0, 148.2) ^{Ⓢ 05/09 10:45:00} | # OP start + 10min. AR 12740 observations. |
| 05/09 18:08:00 - 05/10 01:29:54 | Track (-95.7, 148.1) ^{Ⓢ 05/09 17:42:00} | # AR cont. |
| 05/10 02:07:30 - 05/10 05:52:54 | Track (-22.5, 147.8) ^{Ⓢ 05/10 01:40:00} | # AR cont. |
| 05/10 18:43:01 - 05/11 01:59:54 | Track (129.9, 146.0) ^{Ⓢ 05/10 18:17:00} | # AR cont. |
| 05/11 02:43:00 - 05/11 05:15:30 | Track (201.2, 144.7) ^{Ⓢ 05/11 02:10:00} | # AR cont. |
| 05/11 06:13:30 - 05/11 10:00:00 | Track (237.1, 144.0) ^{Ⓢ 05/11 06:10:30} | # AR cont. |

PROG= 11 Inf.-time(s)

| Subr= 1 | 1-time(s) | 2.0sec |
|-----------------|---------------------|---------------------------------------------------------------|
| Seqn= 92 | 1-time(s) | 2.0sec |
| Open/G-band | Open/G-band open | Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 16.0s Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec |
| Seqn= 42 | 3-time(s) | 2.0sec |
| Al-poly/Open | thin-Be/Open close | Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec |
| thin-Be/Open | med-Be/Open close | Safe Norm 5.66s Obs 1x1 512x512 (1064, 1048) Q=95 3 0 2.0sec |
| Open/thick-Al | Open/thick-Al close | Safe Norm 16.0s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec |
| Seqn= 32 | 30-time(s) | 120.0sec |
| thin-Be/Open | med-Be/Open close | Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec |
| Al-poly/Open | thin-Be/Open close | Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 34.0sec |
| thin-Be/Open | med-Be/Open close | Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 1 2.0sec |
| Al-poly/Open | thin-Be/Open close | Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 1 34.0sec |
| thin-Be/Open | med-Be/Open close | Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec |
| Al-poly/Open | thin-Be/Open close | Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 2 2.0sec |

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

XOB #1BA7: Synoptic Q95 2x2 - Al/mesh(8/181/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(16/181/4096) + Th

| Term | Pointing (x, y) | Comment |
|---------------------------------|-------------------|--------------------------------------------------|
| 05/09 17:18:00 - 05/09 17:26:30 | Fixed (0.0, 0.0) | synoptic, shifted + XRT stray light measurement. |
| 05/10 05:56:00 - 05/10 06:02:54 | Fixed (0.0, 0.0) | synoptic, shifted -7.0 min |
| 05/10 17:53:00 - 05/10 18:01:30 | Fixed (0.0, 0.0) | synoptic, shifted + XRT stray light measurement. |
| 05/11 06:03:30 - 05/11 06:10:24 | Fixed (0.0, 0.0) | synoptic, shifted 0.5 min |

PROG= 05 1-time(s)

| Subr= 1 | 1-time(s) | 2.0sec |
|-----------------|------------------------|----------------------------------------------------------------|
| Seqn= 5 | 1-time(s) | 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec |
| Seqn= 80 | 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 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Open/Al-mesh | Open/Al-mesh close | Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 66 | 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 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Al-poly/Open | Al-poly/thick-Al close | Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 69 | 1-time(s) | 2.0sec |
| thin-Be/Open | thin-Be/Open close | Safe Norm 63ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| thin-Be/Open | thin-Be/Open close | Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| thin-Be/Open | thin-Be/Open close | Safe Norm 11.3s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 23 | 1-time(s) | 2.0sec |
| Open/G-band | Open/G-band open | Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |

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

XOB #1C48: Stray light study 2019-2 ;Thin-Be, 2x2 full FOV(1min-cad) and 1x1 384 at Center (10sec-cad)

| Term | Pointing (x, y) | Comment |
|---------------------------------|-------------------|--------------------------------------------------|
| 05/09 17:29:00 - 05/09 17:41:54 | Fixed (0.0, 0.0) | synoptic, shifted + XRT stray light measurement. |

PROG= 16 1-time(s)

| Subr= 2 | 20-time(s) | 2.0sec |
|-----------------|---------------------|----------------------------------------------------------------|
| Seqn= 9 | 1-time(s) | 10.0sec |
| Open/Al-mesh | Open/thick-Al close | Safe Norm 2.83s Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 384x384 (1024, 1200) Q=95 0 0 2.0sec |
| Subr= 3 | 8-time(s) | 2.0sec |
| Seqn= 73 | 1-time(s) | 2.0sec |
| thin-Be/Open | thin-Be/Open close | Safe Norm 11.3s Obs 2x2 2048x2048 (1024, 1024) DPCM 0 0 2.0sec |
| Seqn= 9 | 3-time(s) | 10.0sec |
| Open/Al-mesh | Open/thick-Al close | Safe Norm 2.83s Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 384x384 (1024, 1200) Q=95 0 0 2.0sec |

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

XOB #1B8D: Synoptic 7 Filter w/ Al-mesh(24/256/2897), Al-poly(45/512/4096), Thin-Be(512/8192/23142) - Thick-Be(65536), Al-poly+Ti-poly(256/5795), Med-AI

| Term | Pointing (x, y) | Comment |
|----------------------------------|------------------------|--------------------------------------------------------------------------|
| 05/10 01:33:00 - 05/10 01:39:00 | Fixed (0.0, 0.0) | # HOP 349 synoptic |
| 05/11 02:03:00 - 05/11 02:09:54 | Fixed (0.0, 0.0) | # HOP 349 synoptic |
| PROG= 12 1-time(s) | | |
| Subr= 1 1-time(s) 2.0sec | | |
| Seqn= 5 1-time(s) 2.0sec | | |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec |
| Open/Ti-poly | Open/thick-Al close | Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec |
| Seqn= 1 1-time(s) 2.0sec | | |
| Open/Al-mesh | Open/Al-mesh close | Safe Norm 24ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Open/Al-mesh | Open/Al-mesh close | Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Open/Al-mesh | Open/Al-mesh close | Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 99 1-time(s) 2.0sec | | |
| Al-poly/Open | Al-poly/Open close | Safe Norm 44ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Al-poly/Open | Al-poly/Open close | Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Al-poly/Open | Al-poly/thick-Al close | Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 54 1-time(s) 2.0sec | | |
| thin-Be/Open | thin-Be/Open close | Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| thin-Be/Open | thin-Be/Open close | Safe Norm 8.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| thin-Be/Open | thin-Be/Open close | Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Seqn= 23 1-time(s) 4.0sec | | |
| Open/G-band | Open/G-band open | Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Subr= 2 1-time(s) 2.0sec | | |
| Seqn= 46 1-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= 55 1-time(s) 2.0sec | | |
| med-AI/Open | med-AI/Open close | Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| med-AI/Open | med-AI/Open close | Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Seqn= 40 1-time(s) 2.0sec | | |
| Al-poly/Ti-poly | Al-poly/thick-Al close | Safe Norm 250ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Al-poly/Ti-poly | Al-poly/thick-Al close | Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec |
| Default Filter | Thicker Filter | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

XOB #1B93: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 30s cadence, G-band - 384x384 1ms

| Term | Pointing (x, y) | Comment |
|-----------------------------------|------------------------|--------------------------------------------------------------------------|
| 05/10 06:06:00 - 05/10 13:06:30 | Fixed (-20.0, -934.0) | # HOP 81 at South pole. |
| PROG= 17 Inf.-time(s) | | |
| Subr= 1 1-time(s) 2.0sec | | |
| Seqn= 16 2-time(s) 2.0sec | | |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec |
| Subr= 2 1-time(s) 2.0sec | | |
| Seqn= 90 1-time(s) 30.0sec | | |
| Open/G-band | Open/G-band open | Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec |
| Subr= 3 60-time(s) 2.0sec | | |
| Seqn= 57 1-time(s) 30.0sec | | |
| Open/Al-mesh | Open/Al-mesh close | Safe Norm 4.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec |
| Al-poly/Open | Al-poly/Open close | Safe Norm 5.66s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec |
| Default Filter | Thicker Filter | VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval |

XOB #1C46: Stray light study 2019-01 ;Al-mesh and Al-poly, 2x2 full FOV(1min-cad) and 1x1 384 on AR(10sec-cad)

| Term | Pointing (x, y) | Comment |
|-----------------------------------|------------------------|--------------------------------------------------------------------------|
| 05/10 13:09:00 - 05/10 13:21:54 | Fixed (-20.0, -934.0) | # HOP 81 at South pole. |
| PROG= 15 1-time(s) | | |
| Subr= 2 20-time(s) 2.0sec | | |
| Seqn= 13 1-time(s) 10.0sec | | |
| Open/Al-mesh | Open/thick-Al close | Safe Norm 2.83s Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec |
| Subr= 3 10-time(s) 2.0sec | | |
| Seqn= 37 1-time(s) 2.0sec | | |
| Open/Al-mesh | Open/Ti-poly close | Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) DPCM 0 0 2.0sec |
| Al-poly/Open | Al-poly/Open close | Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) DPCM 0 0 2.0sec |
| Seqn= 13 3-time(s) 10.0sec | | |
| Open/Al-mesh | Open/thick-Al close | Safe Norm 2.83s Obs 1x1 384x384 (1024, 1024) Q=95 0 0 2.0sec |
| Open/G-band | Open/G-band close | Safe Norm 1ms Obs 1x1 384x384 (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 #1AEC: G-Band Alignment with North Pole Q90 2x2 (G-band and VLS=CLS) - 1msec (Al/poly) - 4096msec - 5min cadence - Partial Sun-wNGT

| Term | Pointing (x, y) | Comment |
|---------------------------------|---------------------|------------------------------|
| 05/10 13:37:00 - 05/10 15:21:54 | Fixed (0.0, 930.0) | # Coalignment at North Pole. |

| | | | | | | | | | | | | | |
|---------------------------------------|----------------|----------------|-------|------|-------|-------|-----|-----|-----------------------|-------|------------|----------|--------|
| PROG= 07 1-time(s) | | | | | | | | | | | | | |
| └─ Subr= 1 24-time(s) 300.0sec | | | | | | | | | | | | | |
| └─ Seqn= 98 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 2x2 | 2048x1536 (1024, 768) | Q=90 | 0 | 0 | 2.0sec |
| └─ Seqn= 63 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 2x2 | 2048x1536 (1024, 768) | Q=90 | 0 | 0 | 2.0sec |
| └─ Seqn= 45 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Al-poly/Open | med-Be/Open | close | Safe | Norm | 4.00s | Obs | 2x2 | 2048x1536 (1024, 768) | Q=95 | 0 | 0 | 2.0sec |
| | Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

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

| Term | Pointing (x, y) | Comment |
|---------------------------------|----------------------|-----------------------------|
| 05/10 15:37:00 - 05/10 17:49:54 | Fixed (-970.0, 0.0) | # Coalignment at East limb. |

| | | | | | | | | | | | | | |
|---------------------------------------|----------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| PROG= 09 1-time(s) | | | | | | | | | | | | | |
| └─ Subr= 1 15-time(s) 480.0sec | | | | | | | | | | | | | |
| └─ Seqn= 19 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Open/G-band | Open/G-band | open | Safe | Norm | 1ms | Obs | 2x2 | 1536x2048 (1280, 1024) | Q=90 | 0 | 0 | 2.0sec |
| └─ Seqn= 43 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 2x2 | 1536x2048 (1280, 1024) | Q=90 | 0 | 0 | 2.0sec |
| └─ Seqn= 70 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | Al-poly/Open | med-Be/Open | close | Safe | Norm | 1.41s | Obs | 2x2 | 1536x2048 (1280, 1024) | Q=95 | 0 | 0 | 2.0sec |
| | Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

XOB #1C49: Stray light study 2019-3 ; med-Be, 2x2 full FOV(1min-cad) and 1x1 384x384 (18sec-cad) at Center

| Term | Pointing (x, y) | Comment |
|---------------------------------|-------------------|--------------------------------------------------|
| 05/10 18:04:00 - 05/10 18:16:54 | Fixed (0.0, 0.0) | synoptic, shifted + XRT stray light measurement. |

| | | | | | | | | | | | | | |
|--------------------------------------|----------------|----------------|-------|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| PROG= 18 1-time(s) | | | | | | | | | | | | | |
| └─ Subr= 2 20-time(s) 2.0sec | | | | | | | | | | | | | |
| └─ Seqn= 13 1-time(s) 10.0sec | | | | | | | | | | | | | |
| | Open/Al-mesh | Open/thick-Al | close | Safe | Norm | 2.83s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| | Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| └─ Subr= 3 6-time(s) 2.0sec | | | | | | | | | | | | | |
| └─ Seqn= 86 1-time(s) 2.0sec | | | | | | | | | | | | | |
| | med-Be/Open | med-Be/Open | close | Safe | Norm | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | DPCM | 0 | 0 | 2.0sec |
| └─ Seqn= 13 3-time(s) 10.0sec | | | | | | | | | | | | | |
| | Open/Al-mesh | Open/thick-Al | close | Safe | Norm | 2.83s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| | Open/G-band | Open/G-band | close | Safe | Norm | 1ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| | Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

* * * * * **Flare mode** * * * * *

XOB #1B8E: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512)

| Term | Pointing (x, y) | Comment |
|---------------------------------|----------------------------------------------------|--------------------------------------------|
| 05/09 11:22:00 - 05/09 17:14:54 | Track (-159.0, 148.2) ^{Ⓜ 05/09 10:45:00} | # OP start + 10min. AR 12740 observations. |
| 05/09 18:08:00 - 05/10 01:29:54 | Track (-95.7, 148.1) ^{Ⓜ 05/09 17:42:00} | # AR cont. |
| 05/10 02:07:30 - 05/10 05:52:54 | Track (-22.5, 147.8) ^{Ⓜ 05/10 01:40:00} | # AR cont. |
| 05/10 06:06:00 - 05/10 13:06:30 | Fixed (-20.0, -934.0) | # HOP 81 at South pole. |
| 05/10 18:43:01 - 05/11 01:59:54 | Track (129.9, 146.0) ^{Ⓜ 05/10 18:17:00} | # AR cont. |
| 05/11 02:43:00 - 05/11 05:15:30 | Track (201.2, 144.7) ^{Ⓜ 05/11 02:10:00} | # AR cont. |
| 05/11 06:13:30 - 05/11 10:00:00 | Track (237.1, 144.0) ^{Ⓜ 05/11 06:10:30} | # AR cont. |

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

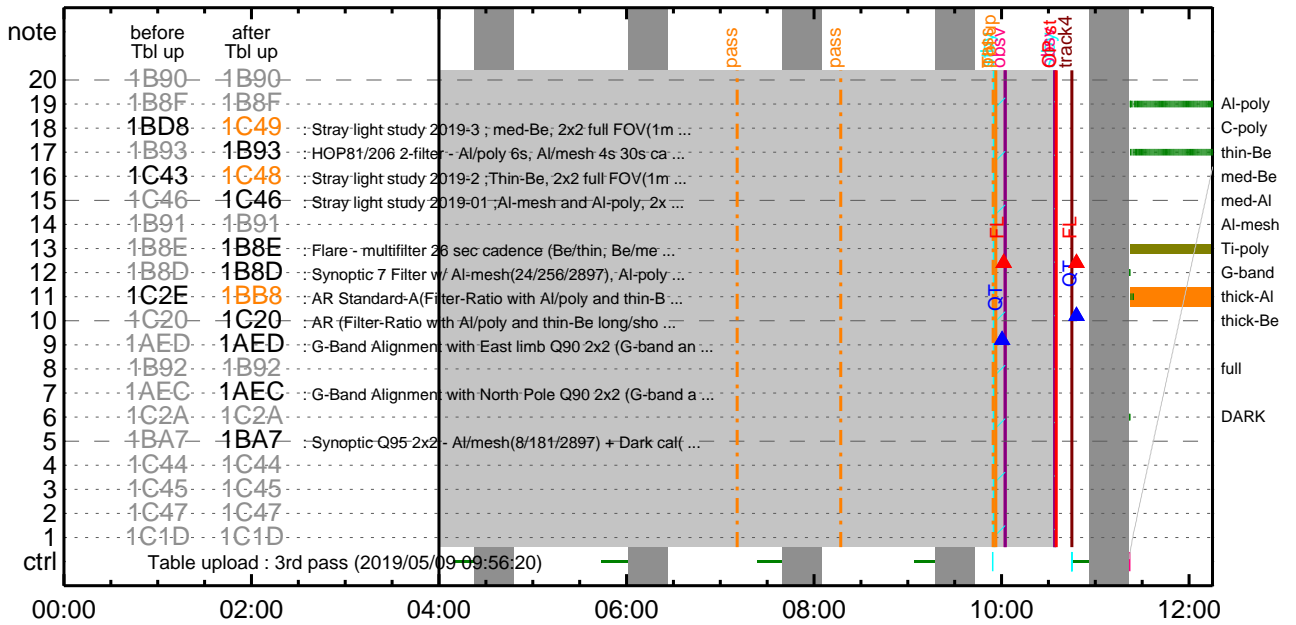
* * * * * **Active Region Search** * * * * *

NOT USED

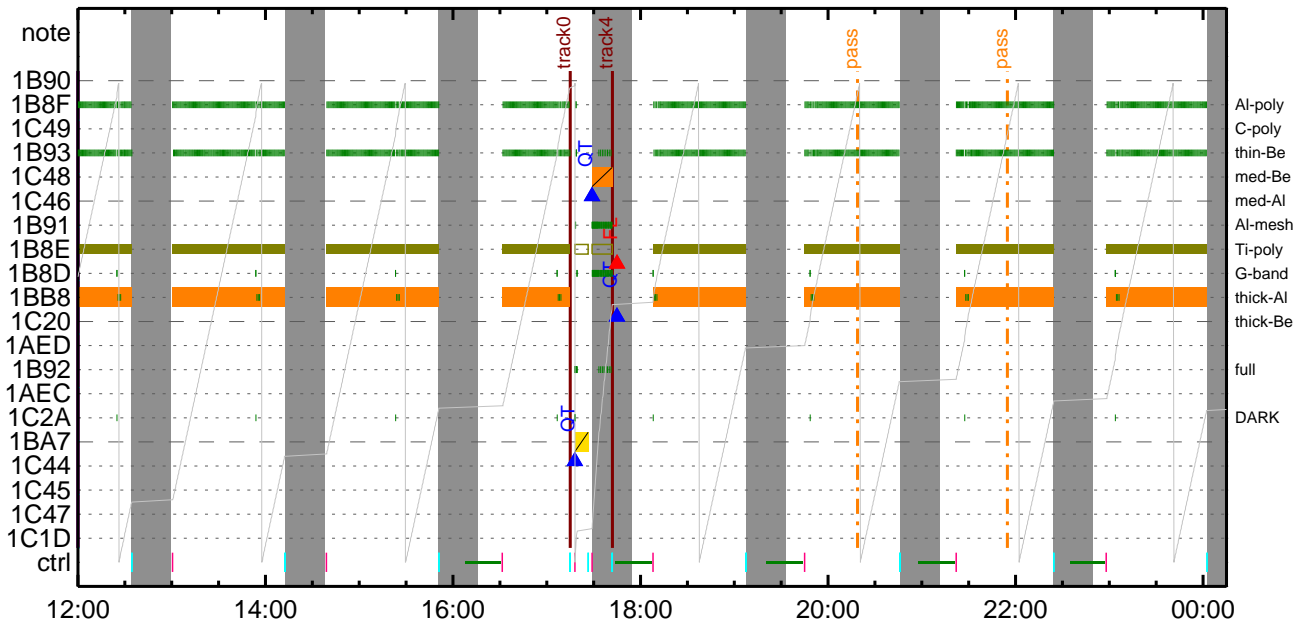
* * * * * **Flare Detection** * * * * *

| FLD Patrol | | | | | | | | | | | | |
|---------------------------------|-----------------|--------|---------|------------------|-------------------------|-----|-----|--------------------|-------|------------|----------|-------|
| Term | Pointing (x, y) | | | | | | | Comment | | | | |
| 05/09 17:42:18 - 05/10 01:30:18 | Track (| -95.7, | 148.1) | @ 05/09 17:42:00 | # AR cont. | | | | | | | |
| 05/10 01:40:18 - 05/10 05:53:18 | Track (| -22.5, | 147.8) | @ 05/10 01:40:00 | # AR cont. | | | | | | | |
| 05/10 06:03:18 - 05/10 13:06:54 | Fixed (| -20.0, | -934.0) | | # HOP 81 at South pole. | | | | | | | |
| 05/10 18:17:18 - 05/11 02:00:18 | Track (| 129.9, | 146.0) | @ 05/10 18:17:00 | # AR cont. | | | | | | | |
| 05/11 02:10:18 - 05/11 06:00:48 | Track (| 201.2, | 144.7) | @ 05/11 02:10:00 | # AR cont. | | | | | | | |
| 05/11 06:10:48 - 05/14 10:15:00 | Track (| 237.1, | 144.0) | @ 05/11 06:10:30 | # AR cont. | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 8ms | Obs | 8x8 | | | Q=50 | | 30sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

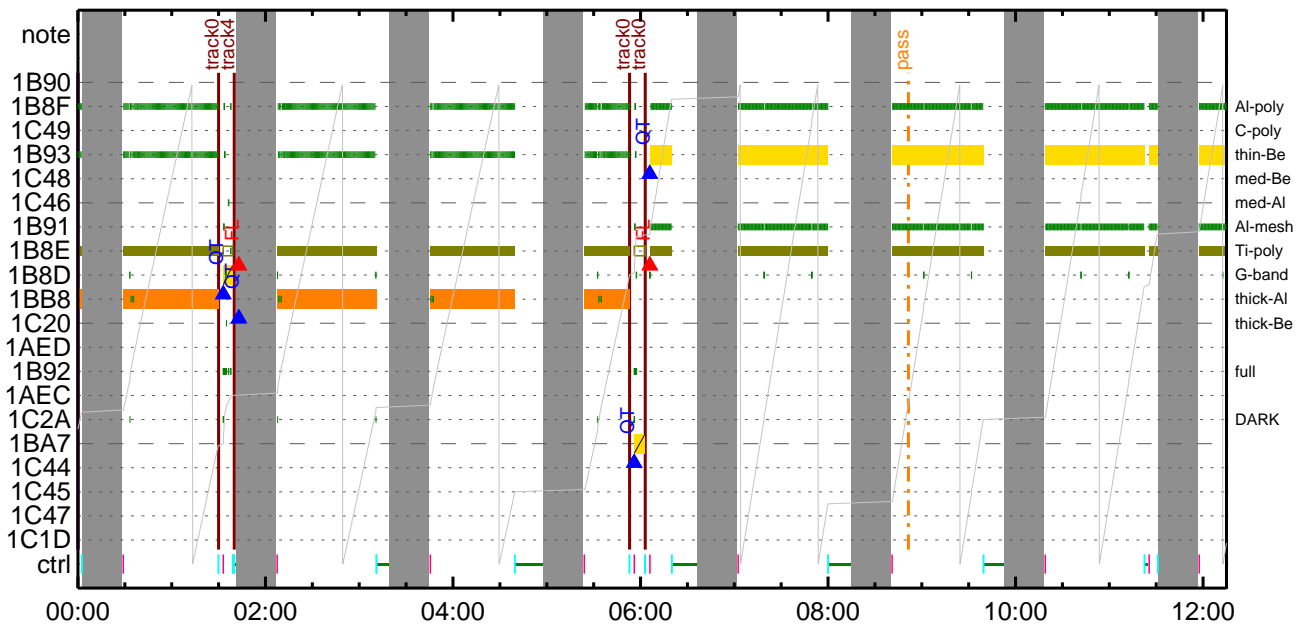
CMDI #0224 2019/05/09



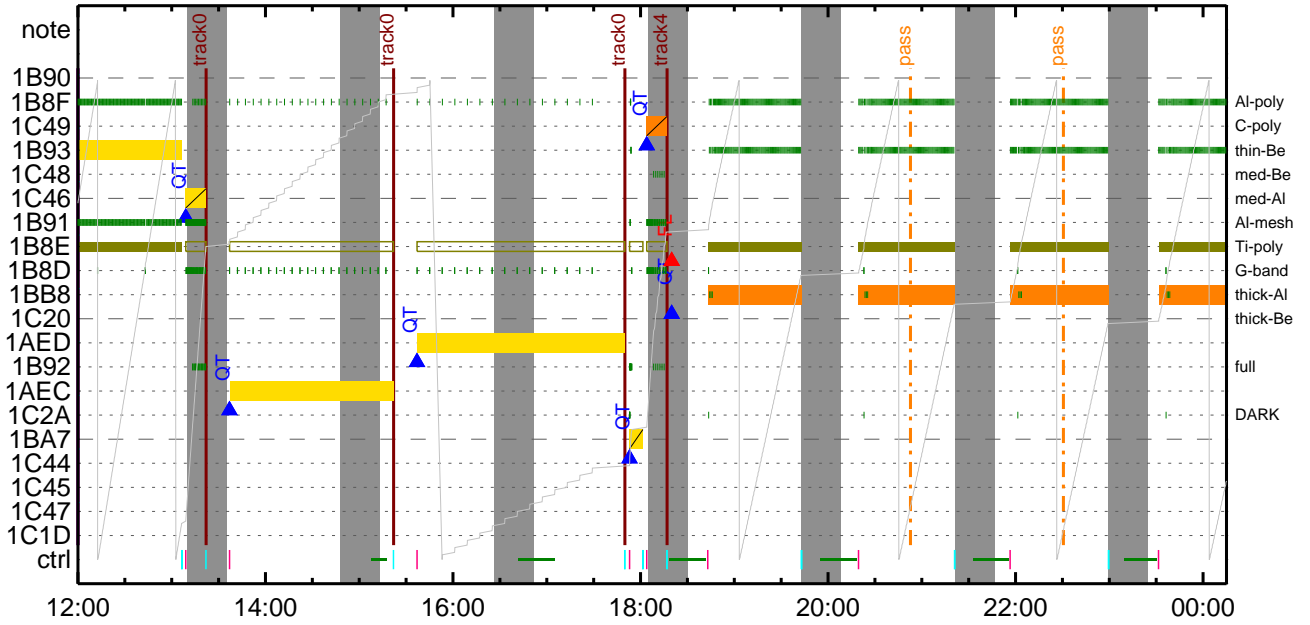
CMDI #0224 2019/05/09



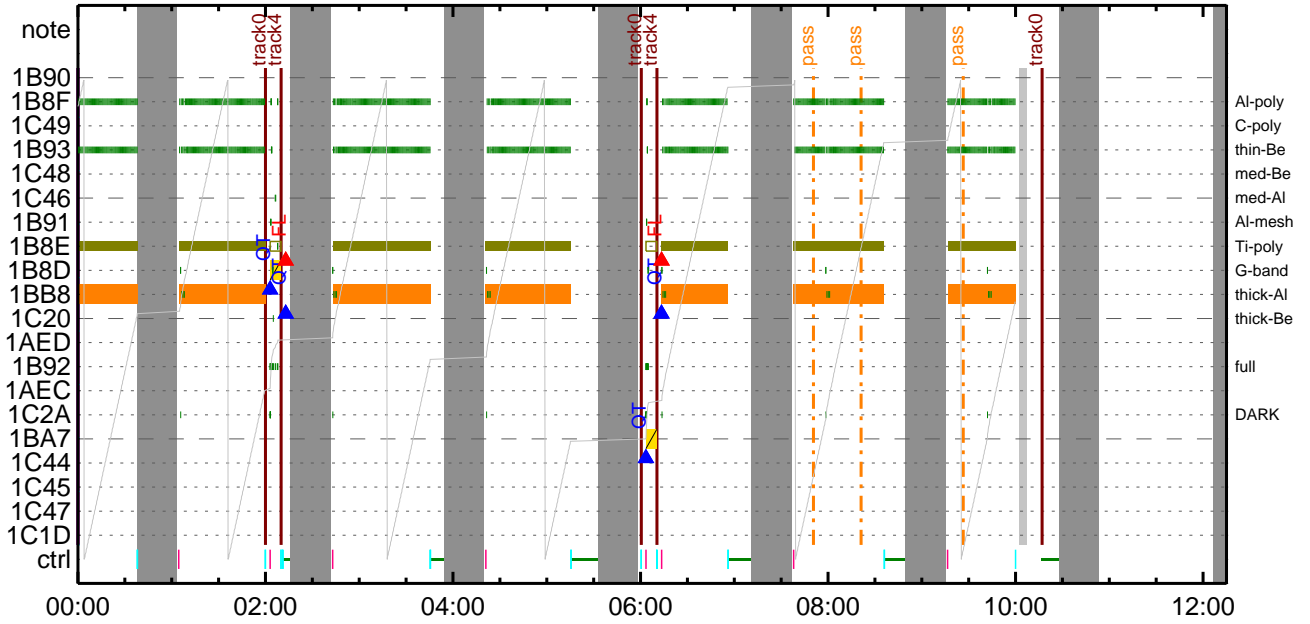
CMDI #0224 2019/05/10



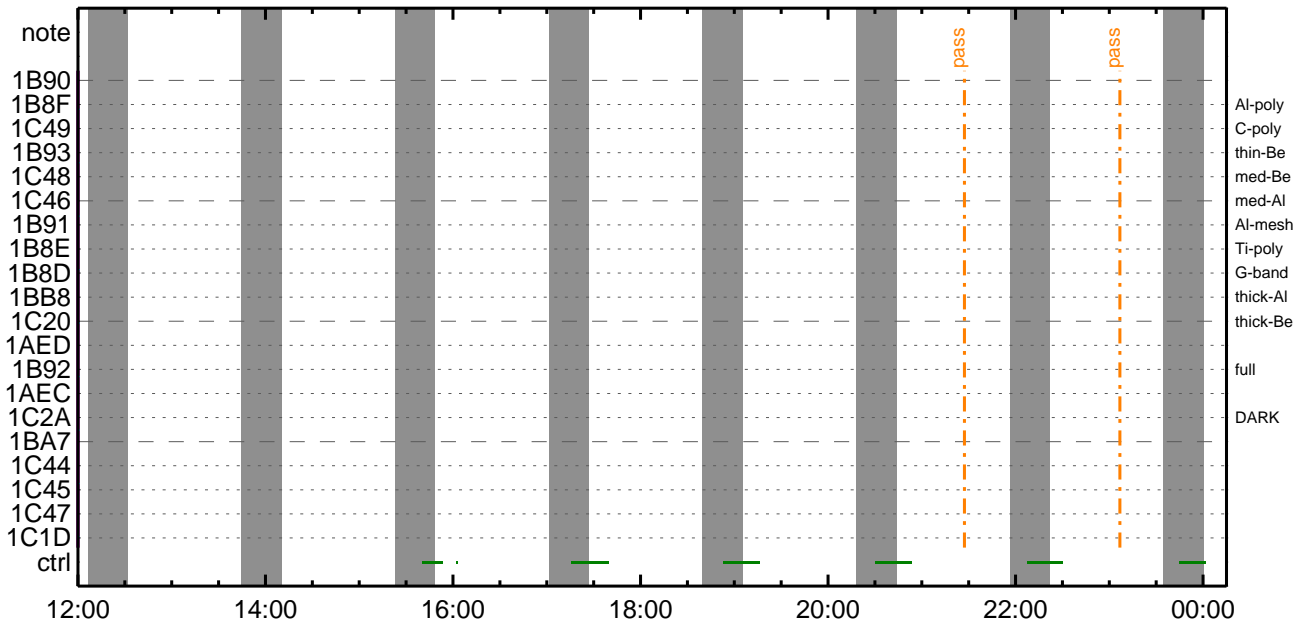
CMDI #0224 2019/05/10



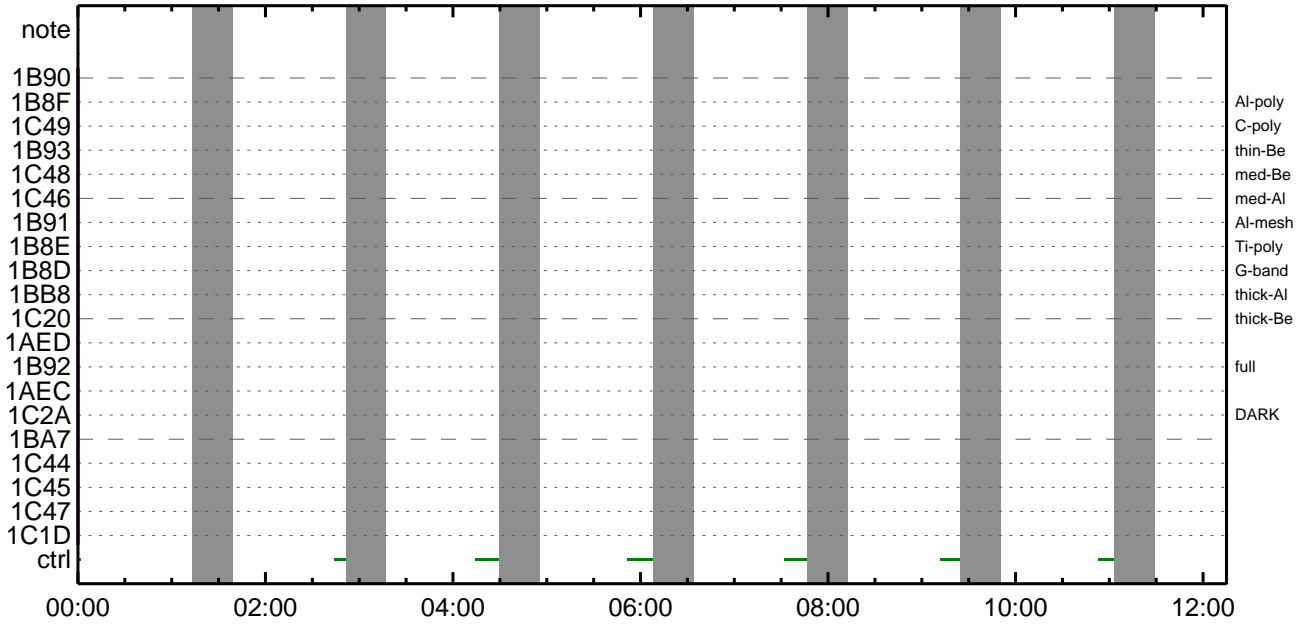
CMDI #0224 2019/05/11



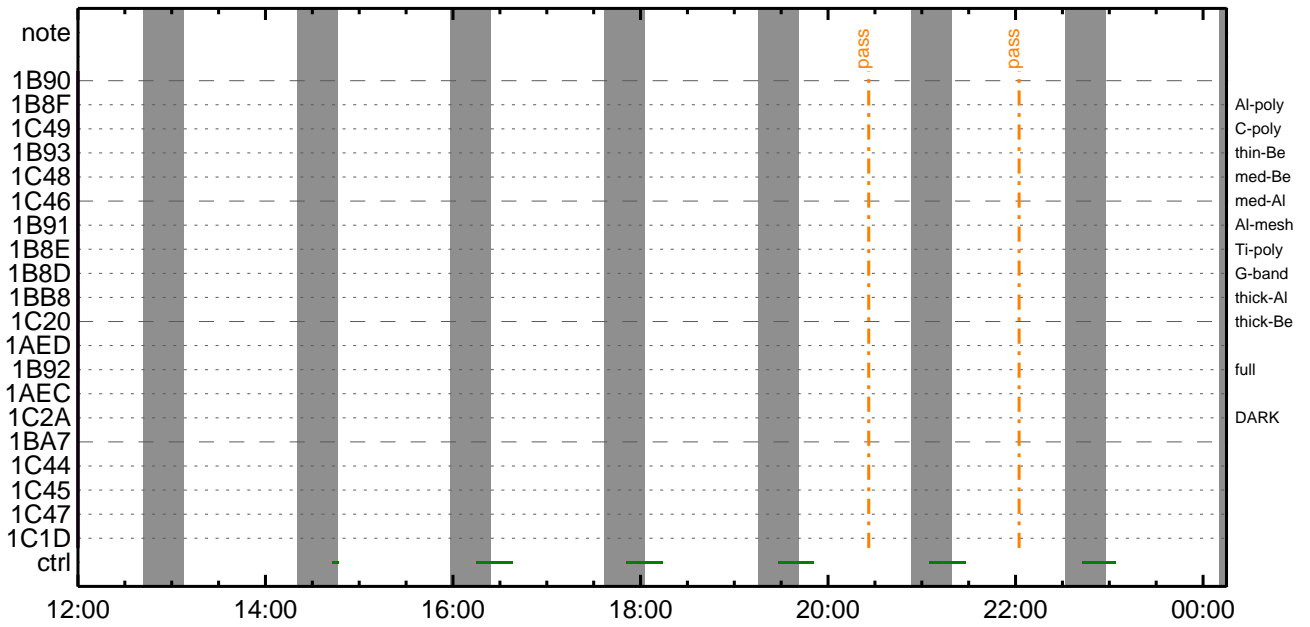
CMDI #0224 2019/05/11



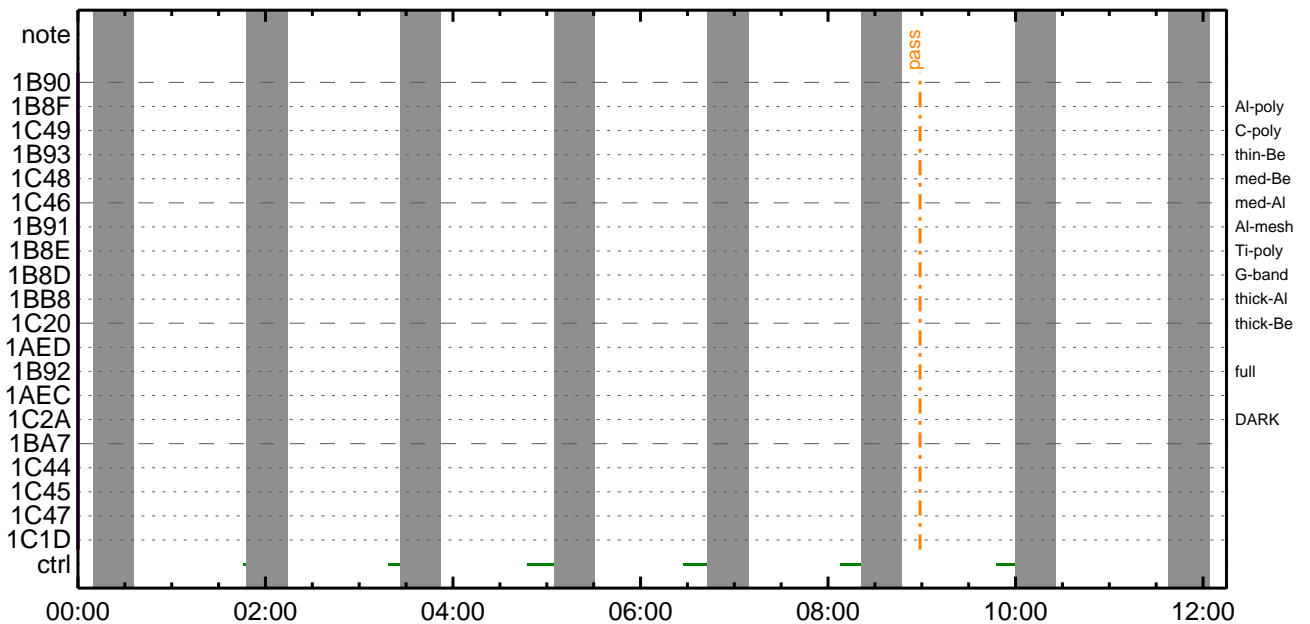
CMDI #0224 2019/05/12



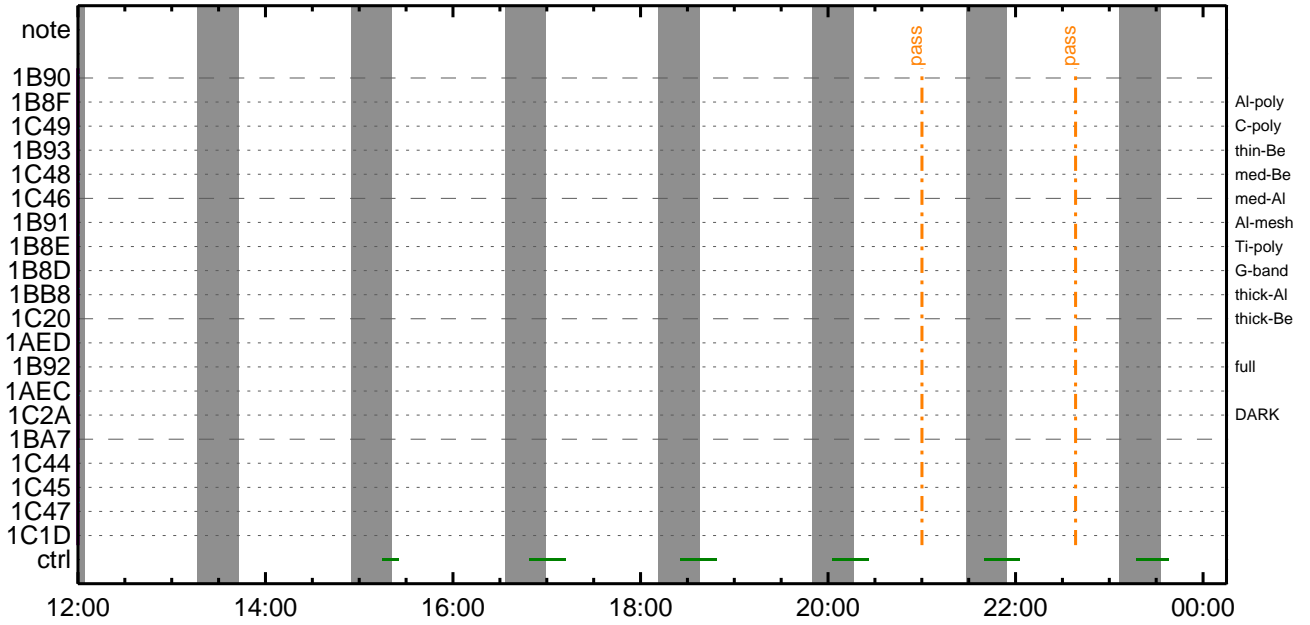
CMDI #0224 2019/05/12



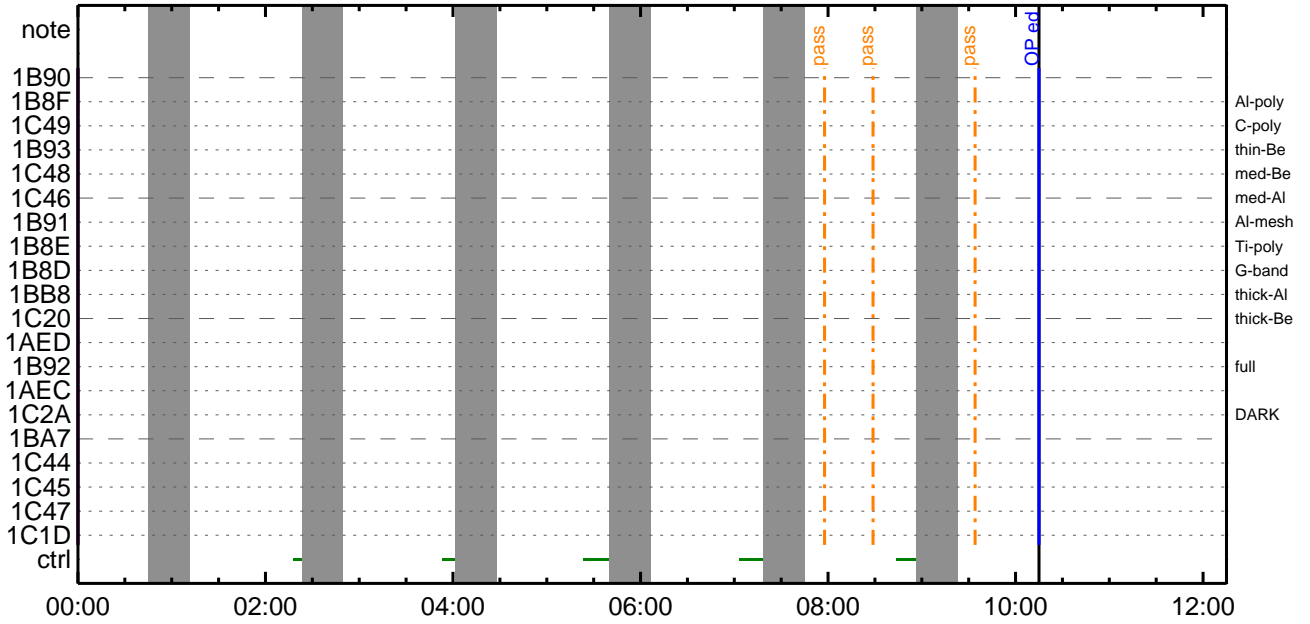
CMDI #0224 2019/05/13



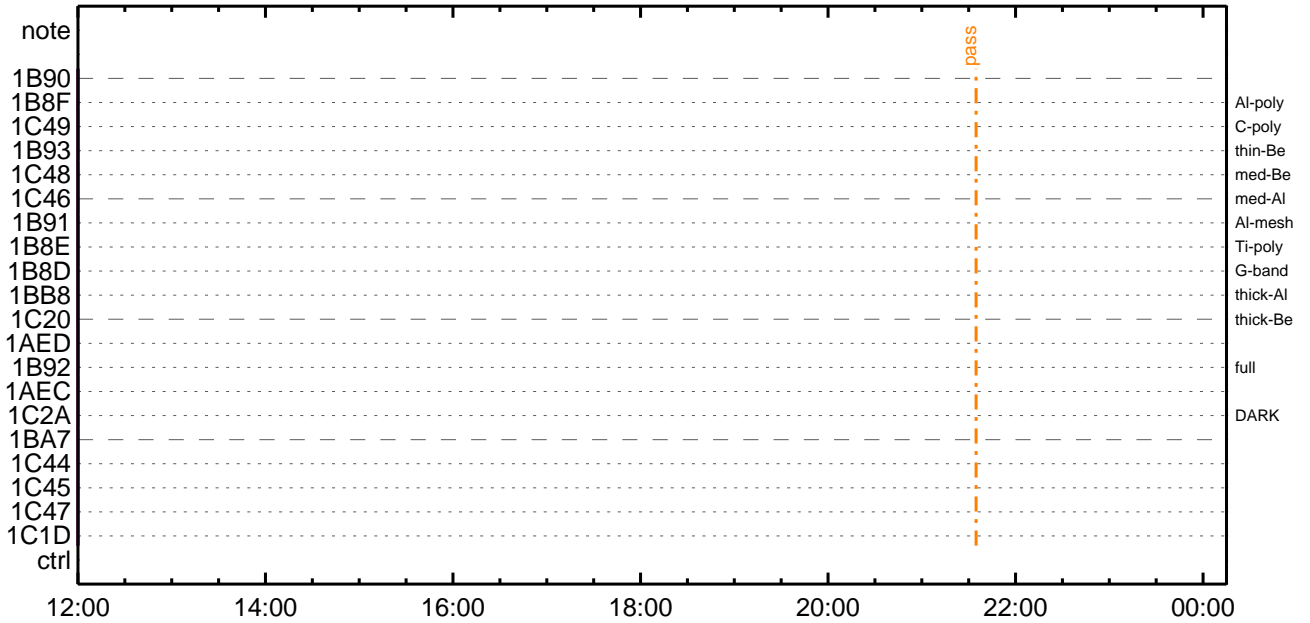
CMDI #0224 2019/05/13



CMDI #0224 2019/05/14



CMDI #0224 2019/05/14



(a) Spacecraft Operation Procedure (real-commands)

```
main-096 2019-05-09 11:46:52 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YFYÖYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èð¿ðÁð•µ°Æ»Í×ÁÇðÍYçYÁY×Yí;¼YÉ;ÈÈ%µ•íÉ;ÈðÈ¼°ÇÓð•ð¿¼í¹ÇðÍ;çÀ®, ù¹ðÈððÇÁ+¿®ð•ðÈððð³ðÈ; f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYí;¼YÉ; | YÁYÖY×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGYí;¼YÉ;ã
0019 . S. OP op-096:OP
0020 ( )
0021 . S. OG og-096:OG
0022 ( )
0023 C.
0024 . C. ;ãNMOG&OPÍ°èYÁYÖY×;ã
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. YÀYÖY×¼ªª Í»ðð³ ÍÇ§
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGðÍ¼È¹ç•è² ÍOKðð³ ÍÇ§
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. YÀYÖY×¼ªª Í»ðð³ ÍÇ§
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGðÍ¼È¹ç•è² ÍOKðð³ ÍÇ§
0062 C.
0063 C. NMOG(0x210000-0x210FFF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. YÀYÖY×¼ªª Í»ðð³ ÍÇ§
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPðÍ¼È¹ç•è² ÍOKðð³ ÍÇ§
0081 C.
0082 . C. ***** øÈ²¼ðÍ¼Á´ ¶¼°ðÈÈ-ð°Á+¿® (¼áµ-YÁYÖY×¼È¼çððÁÓÃæçª¼°ð¼¼¼í¹çðçðá) *****
0083 C. DHUYá;¼YÉ;È¼Y¼; Yí;¼YÉ;ÈððÍáð¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE |§ OPOG UPLOADð-Á+¿®NGðÍ¼¹¹ç; ç°È²¼ðÍ¼TI-CMDÁ+¿®ðÍ¼Á¹Ôð•ðÈððð³ðÈ; f
```

0096 C. 0097 C. 0098 C. TI 2019-05-09 10:30:00.0 0099 +. TI 2019-05-09 10:30:00.0 0100 DC 01-B3 DHU_OP_STOP 0101 C. 0102 C. 0103 +. TI 2019-05-09 10:30:01.0 0104 DC 01-B4 DHU_OP_COPY 0105 C. 0106 C. 0107 +. TI 2019-05-09 10:30:01.0 0108 DC 01-B5 DHU_OPOG_COPY 0109 C. 0110 C. 0111 +. TI 2019-05-09 10:34:59.5 0112 DC 01-B2 DHU_OP_START 0113 C. 0114 C. 0115 C. 0116 C. 0117 C. 0118 C. 0119 C. 0120 C. 0121 C. 0122 C. 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. 0129 C. 0130 C. 0131 C. 0132 C. 0133 +. DC 01-22 DHU_MODE_CHNG 0134 BC (07 0b f8) 0135 C. 0136 C. 0137 C. 0138 C. 0139 C. 0140 C. 0141 C. 0142 C. 0143 C. 0144 C. RAM ID=TI_TBL 0145 C. 0146 C. DHU 0147 +. DC 01-22 DHU_MODE_CHNG 0148 BC (02 0a f8) 0149 C. 0150 C. 0151 C. 0152 C. 0153 C. 0154 C. 0155 C. SOT TI command set 0156 C. 0157 C. Execute, after the success of OP upload. 0158 +. TI 2019-05-09 10:34:16.0 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 2019-05-09 10:34:30.0 0172 DC 07-FC EIS_MODE_MANU 0173 BC (21 02) 0174 +. TI 2019-05-09 10:34:40.0 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 2019-05-09 10:34:00.0 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 0192 C. (0193 S. 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;ä
0203 C.
0204 . C. ***** LOS *****
0205 C.
```



```
0096 C.
0097 C.
0098 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCs Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_CHG_ENA
0131 BC (20)
0132 . C. Verify EIS_MODE_CHG_FLG is ENA
0133 +. DC 07-FC EIS_MODE_MANU
0134 BC (21 02)
0135 . C. Verify EIS in MANUAL mode
0136 . C. Estimated OBSTBL upload time is 30s
0137 C. *****
0138 C. EIS START OBSTBL LOAD
0139 C. *****
0140 . S. RAM ram-820:EIS_OBSTBL
0141 ( )
0142 +. DC 07-FC EIS_DUMP_OBSTBL
0143 BC (07 07 07 00 00 70 00)
0144 C.
0145 C. Execute, after the success of OBSTBL upload.
0146 C. Set EIS TI-commands
0147 +. TI 2019-05-09 10:34:50.0
0148 DC 07-FC EIS_MODE_CHG_ENA
0149 BC (20)
0150 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0151 C. *****
0152 C. EIS END OBSTBL LOAD
0153 C. *****
0154 C.
0155 . C. ***** MDP 'ûÃîâî»ö¼ÝðÊÄð¹ñèDCBC•x²è *****
0156 C. (¼á°îÿÓÿÄÿËÿPÿËÿáÿçÿèñÉ¼ð¼Ä»Û¹ñè)
0157 . S. DC-BC dcbc-402:DCBC
0158 (MDP_known_event)
0159 C.
0160 C.
0161 . C. ***** ÿDÿ¹•ï Daily±¿îÑñÉ'Øñ¹ñèDCBC•x²è *****
0162 . S. DC-BC dcbc-153:DCBC
0163 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164 C.
0165 C.
0166 . C. ;ãLOSÿÁÿSÿÿÿÿ¼Ä»Û;ã
0167 C.
0168 . C. ***** LOS *****
0169 C.
```



```

0096 C.
0097 C.
0098 . C. *****
0099 C. SOT table upload
0100 C. *****
0101 . C. < Stop SP table >
0102 +. DC 07-F0 MDP_SP_CTRL_MANU
0103 BC (61)
0104 C. -----
0105 C. MDP_SP_CTRL_MODE = MANU [ ]
0106 C. -----
0107 C.
0108 . C. <Upload SP Observation Table>
0109 . S. RAM ram-287:MDP_OBS_S
0110 ( )
0111 C.
0112 . C. < Dump RAMID=MDP_OBS_S >
0113 +. DC 07-F0 MDP_DUMP_SPTBL
0114 BC (83 07 00 00 00 38 b8)
0115 C. -----
0116 C. MDP_OBS_S verify = OK/NG [ ]
0117 C. -----
0118 C.
0119 C. *****
0120 C. SOT TI command set
0121 C. *****
0122 C. Execute, after the success of TBL upload.
0123 +. TI 2019-05-09 10:34:18.0
0124 DC 07-F0 MDP_SOT_MODE_OBSV
0125 BC (40)
0126 . C. -----
0127 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0128 C. -----
0129 C.
0130 C.
0131 C. ***** XRT START *****
0132 C.
0133 +. DC 07-F0 MDP_XRT_CTRL_MANU
0134 BC (c1)
0135 + DC 07-F0 MDP_XRT_MODE_STBY
0136 BC (c3)
0137 . C. ----- Success Verify ? OK / NG____
0138 C.
0139 C. XRT Obs. Table Upload
0140 . S. RAM ram-291:MDP_OBS_X
0141 ( )
0142 C.
0143 +. DC 07-F0 MDP_DUMP_XRTTBL
0144 BC (84 07 00 00 00 3a d4)
0145 . C. ----- Comparison Check ? OK / ERR ____
0146 C.
0147 C.
0148 +. DC 07-F0 MDP_XRT_ROI_SET
0149 BC (cd 01 b1 b1 04 04)
0150 + DC 07-F0 MDP_XRT_ROI_SET
0151 BC (cd 02 b1 b1 08 08)
0152 + DC 07-F0 MDP_XRT_ROI_SET
0153 BC (cd 03 b1 b1 08 08)
0154 + DC 07-F0 MDP_XRT_ROI_SET
0155 BC (cd 04 b1 b1 06 06)
0156 + DC 07-F0 MDP_XRT_ROI_SET
0157 BC (cd 05 85 83 06 06)
0158 + DC 07-F0 MDP_XRT_ROI_SET
0159 BC (cd 06 85 83 06 06)
0160 + DC 07-F0 MDP_XRT_ROI_SET
0161 BC (cd 07 85 83 08 08)
0162 + DC 07-F0 MDP_XRT_ROI_SET
0163 BC (cd 08 80 80 20 20)
0164 + DC 07-F0 MDP_XRT_ROI_SET
0165 BC (cd 09 80 80 20 08)
0166 + DC 07-F0 MDP_XRT_ROI_SET
0167 BC (cd 0a 80 80 08 20)
0168 + DC 07-F0 MDP_XRT_ROI_SET
0169 BC (cd 0b 80 80 06 06)
0170 + DC 07-F0 MDP_XRT_ROI_SET
0171 BC (cd 0c 80 96 06 06)
0172 + DC 07-F0 MDP_XRT_ROI_SET
0173 BC (cd 0d 80 60 20 18)
0174 + DC 07-F0 MDP_XRT_ROI_SET
0175 BC (cd 0e a0 80 18 20)
0176 + DC 07-F0 MDP_XRT_ROI_SET
0177 BC (cd 0f 80 80 06 06)
0178 + DC 07-F0 MDP_XRT_ROI_SET
0179 BC (cd 10 80 80 08 08)
0180 + DC 07-F0 MDP_XRT_FLD_ENA
0181 BC (d8)
0182 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0183 BC (c8)
0184 + DC 07-F0 MDP_XRT_ARS_DIS
0185 BC (d5)
0186 + DC 07-F0 MDP_XRT_AEC_RESET
0187 BC (d0)
0188 + DC 07-F0 MDP_XRT_FLD_RESET
0189 BC (da)
0190 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0191 BC (c4 0a)
0192 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0193 BC (c5 0d)

```

0194 . C. ----- Success Verify ? OK / NG ____
0195 C.
0196 C.
0197 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0198 C.
0199 +. DC 07-F0 MDP_XRT_MODE_OBSV
0200 BC (c2)
0201 +. TI 2019-05-09 10:34:02.0
0202 DC 07-F0 MDP_XRT_MODE_OBSV
0203 BC (c2)
0204 . C. ----- Success Verify ? OK / NG ____
0205 C.
0206 C. ***** XRT END *****
0207 C.
0208 . C. ***** MDP 'úÃîσî»ö¼ÝρËÂÐσ¹αèDCBC•x²è *****
0209 C. (¼ãºîïÿÓŸÁŸÈŸþŸËŸáŸçŸèσÈ¼σ¼Á»Ûσ¹αé)
0210 . S. DC-BC dcbc-402:DCBC
0211 (MDP_known_event)
0212 C.
0213 C.
0214 . C. ***** ŸÐŸ¹•ï Daily±¿îÑσÈ'Øσ¹αèDCBC•x²è *****
0215 . S. DC-BC dcbc-153:DCBC
0216 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0217 C.
0218 C.
0219 . C. ;ãLOSŸÁŸŸŸŸË~¼Á»Û;ã
0220 C.
0221 . C. ***** LOS *****
0222 C.

May 09, 19 11:46

XRT_OGLIST_0224.chk

Page 1/8

*** OP Sequence for XRT ***

| | | | | | |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2019/05/09 | 10:44:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 10:44:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 10:44:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2019/05/09 | 10:45:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | | | |
| | | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 |
| 2019/05/09 | 10:45:00.5 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 10:45:02.5 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 10:45:04.5 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 10:45:06.5 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/09 | 10:45:18.0 | XRT_FLD_ENA_411_OG [0x19b] | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2019/05/09 | 10:45:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2019/05/09 | 10:45:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2019/05/09 | 10:45:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/09 | 10:45:26.0 | XRT_FLD_RESET_434_OG [0x1b2] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 10:47:56.0 | XRT_QT_PROG_SET_401_OG [0x191] | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b |
| 2019/05/09 | 10:47:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8] | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d |
| 2019/05/09 | 10:48:14.5 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/09 | 11:21:00.5 | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/09 | 11:22:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 12:34:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 12:34:32.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 12:34:34.0 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 12:34:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/09 | 12:37:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/09 | 12:59:30.5 | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/09 | 13:00:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 14:12:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 14:12:32.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 14:12:34.0 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 14:12:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/09 | 14:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/09 | 14:38:00.5 | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/09 | 14:39:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 15:51:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 15:51:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 15:51:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 15:51:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/09 | 15:54:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/09 | 16:30:30.0 | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/09 | 16:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 17:14:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 17:14:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 17:14:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2019/05/09 | 17:15:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |
| 2019/05/09 | 17:15:18.0 | XRT_FLD_DIS_409_OG [0x199] | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/09 | 17:15:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/09 | 17:15:22.0 | XRT_ARS_DIS_443_OG [0x1bb] | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/09 | 17:17:58.0 | XRT_QT_PROG_SET_442_OG [0x1ba] | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 05 |
| 2019/05/09 | 17:18:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | |

| | | | | | | |
|------------|------------|-----------------------------------|---------------------------|---|-------|----------------|
| 2019/05/09 | 17:26:30.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 17:26:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 17:26:34.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 17:26:54.0 | XRT_FLD_DIS_435_OG [0x1b3] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2019/05/09 | 17:28:54.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/09 | 17:28:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/09 | 17:28:58.0 | XRT_QT_PROG_SET_422_OG [0x1a6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/09 | 17:29:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 10 |
| 2019/05/09 | 17:41:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 17:41:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 17:41:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 17:42:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2019/05/09 | 17:42:18.0 | XRT_FLD_ENA_411_OG [0x19b] | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 |
| 2019/05/09 | 17:42:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2019/05/09 | 17:42:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2019/05/09 | 17:42:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2019/05/09 | 17:42:26.0 | XRT_FLD_RESET_434_OG [0x1b2] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/09 | 17:44:56.0 | XRT_QT_PROG_SET_401_OG [0x191] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 17:44:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b |
| 2019/05/09 | 18:07:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d |
| 2019/05/09 | 18:08:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/09 | 19:07:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 19:07:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 19:07:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 19:07:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 19:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/09 | 19:44:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/09 | 19:45:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/09 | 20:46:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 20:46:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 20:46:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 20:46:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 20:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/09 | 21:21:01.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/09 | 21:22:01.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/09 | 22:24:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/09 | 22:24:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 22:24:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/09 | 22:24:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/09 | 22:27:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/09 | 22:57:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/09 | 22:58:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | |
| 2019/05/10 | 00:02:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 00:02:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 00:02:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 00:02:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/10 | 00:05:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/10 | 00:28:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/10 | 00:29:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | |

May 09, 19 11:46

XRT_OGLIST_0224.chk

Page 3/8

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2019/05/10 | 01:29:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| | | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 01:29:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 01:29:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2019/05/10 | 01:30:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |
| 2019/05/10 | 01:30:18.0 | XRT_FLD_DIS_409_OG [0x199] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/10 | 01:30:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/10 | 01:30:22.0 | XRT_ARS_DIS_443_OG [0x1bb] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/10 | 01:32:58.0 | XRT_QT_PROG_SET_418_OG [0x1a2] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0c |
| 2019/05/10 | 01:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 01:39:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 01:39:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 01:39:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/10 | 01:39:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/10 | 01:39:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 01:39:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 01:39:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2019/05/10 | 01:40:00.0 | AOCS_ORe-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 |
| 2019/05/10 | 01:40:18.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2019/05/10 | 01:40:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2019/05/10 | 01:40:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2019/05/10 | 01:40:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/10 | 01:40:26.0 | XRT_FLD_RESET_434_OG [0x1b2] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/10 | 01:42:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/10 | 01:42:56.0 | XRT_QT_PROG_SET_401_OG [0x191] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b |
| 2019/05/10 | 01:42:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d |
| 2019/05/10 | 02:06:30.5 | XRT_Custom_430_OG [0x1ae] | | | | |
| 2019/05/10 | 02:07:30.5 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 03:11:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 03:11:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 03:11:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/10 | 03:11:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/10 | 03:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/10 | 03:44:30.0 | XRT_Custom_430_OG [0x1ae] | | | | |
| 2019/05/10 | 03:45:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 04:39:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 04:39:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 04:39:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/10 | 04:39:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/10 | 04:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/10 | 05:23:00.0 | XRT_Custom_430_OG [0x1ae] | | | | |
| 2019/05/10 | 05:24:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 05:52:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 05:52:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 05:52:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2019/05/10 | 05:53:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |
| 2019/05/10 | 05:53:18.0 | XRT_FLD_DIS_409_OG [0x199] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/10 | 05:53:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/10 | 05:53:22.0 | XRT_ARS_DIS_443_OG [0x1bb] | | | | |

May 09, 19 11:46

XRT_OGLIST_0224.chk

Page 4/8

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|------------|------------|-----------------------------------|------------------------------|---|-------|----|-------------|
| 2019/05/10 | 05:55:58.0 | XRT_QT_PROG_SET_442_OG [0x1ba] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2019/05/10 | 05:56:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 05 |
| 2019/05/10 | 06:02:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2019/05/10 | 06:02:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 06:02:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 06:03:00.0 | AOCs_Ore-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe 97 00 |
| 2019/05/10 | 06:03:18.0 | XRT_FLD_ENA_411_OG [0x19b] | AOCU_NM | 5 | 02-76 | 00 | 53 02 01 ca |
| 2019/05/10 | 06:03:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | |
| 2019/05/10 | 06:03:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | |
| 2019/05/10 | 06:03:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | |
| 2019/05/10 | 06:03:26.0 | XRT_FLD_RESET_434_OG [0x1b2] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2019/05/10 | 06:05:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2019/05/10 | 06:05:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11 |
| 2019/05/10 | 06:06:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d |
| 2019/05/10 | 06:20:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2019/05/10 | 06:20:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 06:20:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 06:20:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2019/05/10 | 06:23:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2019/05/10 | 07:01:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2019/05/10 | 07:02:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_Custom_430_OG [0x1ae] | | | | |
| 2019/05/10 | 08:00:00.0 | XRT_CTRL_MANU_400_OG [0x190] | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | |
| 2019/05/10 | 08:00:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2019/05/10 | 08:00:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 08:00:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 08:03:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2019/05/10 | 08:40:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2019/05/10 | 08:41:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2019/05/10 | 09:39:30.0 | XRT_CTRL_MANU_400_OG [0x190] | XRT_Custom_430_OG [0x1ae] | | | | |
| 2019/05/10 | 09:39:32.0 | XRT_CTRL_MANU_402_OG [0x192] | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | |
| 2019/05/10 | 09:39:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2019/05/10 | 09:39:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 09:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 10:18:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2019/05/10 | 10:19:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2019/05/10 | 11:22:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2019/05/10 | 11:22:32.0 | XRT_CTRL_MANU_402_OG [0x192] | XRT_Custom_430_OG [0x1ae] | | | | |
| 2019/05/10 | 11:22:34.0 | XRT_FLD_RESET_415_OG [0x19f] | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | |
| 2019/05/10 | 11:22:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2019/05/10 | 11:24:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 11:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 11:25:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2019/05/10 | 11:31:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| 2019/05/10 | 11:31:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |
| 2019/05/10 | 11:31:04.0 | XRT_FLD_RESET_415_OG [0x19f] | XRT_CTRL_MANU_400_OG [0x190] | | | | |
| 2019/05/10 | 11:31:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 11:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2019/05/10 | 11:56:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | |
| 2019/05/10 | 11:57:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | |
| | | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2019/05/10 | 13:06:30.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 13:06:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 13:06:34.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 13:06:54.0 | XRT_FLD_DIS_435_OG [0x1b3] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2019/05/10 | 13:08:54.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/10 | 13:08:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/10 | 13:08:58.0 | XRT_QT_PROG_SET_444_OG [0x1bc] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/10 | 13:09:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0f |
| 2019/05/10 | 13:21:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 13:21:56.0 | XRT_FOCUS_POSITION_431_OG [0x1af] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 13:22:00.0 | AOCS_OrE-point_Start_4_OG [0x09a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2019/05/10 | 13:22:16.0 | XRT_FLD_DIS_433_OG [0x1b1] | AOCU_NM | 5 | 02-76 | 00 ad 59 00 00 |
| 2019/05/10 | 13:36:54.0 | XRT_FLRCTRL_DIS_438_OG [0x1b6] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/10 | 13:36:56.0 | XRT_ARS_DIS_429_OG [0x1ad] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/10 | 13:36:58.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/10 | 13:37:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 07 |
| 2019/05/10 | 15:21:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 15:21:56.0 | XRT_FOCUS_POSITION_431_OG [0x1af] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 15:22:00.0 | AOCS_OrE-point_Start_5_OG [0x09b] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2019/05/10 | 15:22:16.0 | XRT_FLD_DIS_433_OG [0x1b1] | AOCU_NM | 5 | 02-76 | 00 00 00 56 35 |
| 2019/05/10 | 15:36:54.0 | XRT_FLRCTRL_DIS_438_OG [0x1b6] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/10 | 15:36:56.0 | XRT_ARS_DIS_429_OG [0x1ad] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/10 | 15:36:58.0 | XRT_QT_PROG_SET_449_OG [0x1c1] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/10 | 15:37:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 09 |
| 2019/05/10 | 17:49:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 17:49:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 17:49:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 17:50:00.0 | AOCS_OrE-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2019/05/10 | 17:50:18.0 | XRT_FLD_DIS_409_OG [0x199] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |
| 2019/05/10 | 17:50:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/10 | 17:50:22.0 | XRT_ARS_DIS_443_OG [0x1bb] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/10 | 17:52:58.0 | XRT_QT_PROG_SET_442_OG [0x1ba] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/10 | 17:53:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 05 |
| 2019/05/10 | 18:01:30.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 18:01:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 18:01:34.0 | XRT_FOCUS_POSITION_406_OG [0x196] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 18:01:54.0 | XRT_FLD_DIS_435_OG [0x1b3] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2019/05/10 | 18:03:54.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2019/05/10 | 18:03:56.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2019/05/10 | 18:03:58.0 | XRT_QT_PROG_SET_403_OG [0x193] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2019/05/10 | 18:04:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 12 |
| 2019/05/10 | 18:16:54.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/10 | 18:16:56.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 18:16:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/10 | 18:17:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2019/05/10 | 18:17:18.0 | XRT_FLD_ENA_411_OG [0x19b] | AOCU_NM | 5 | 02-76 | 04 00 00 00 00 |
| | | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |

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|------------|------------|-----------------------------------|---|-------|----|----|----|----|
| 2019/05/10 | 18:17:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | |
| 2019/05/10 | 18:17:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | |
| 2019/05/10 | 18:17:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2019/05/10 | 18:17:26.0 | XRT_FLD_RESET_434_OG [0x1b2] | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2019/05/10 | 18:19:56.0 | XRT_QT_PROG_SET_401_OG [0x191] | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0b | | |
| 2019/05/10 | 18:19:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8] | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d | | |
| 2019/05/10 | 18:42:01.0 | XRT_Custom_430_OG [0x1ae] | | | | | | |
| 2019/05/10 | 18:43:01.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2019/05/10 | 19:43:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/10 | 19:43:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/10 | 19:43:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2019/05/10 | 19:43:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2019/05/10 | 19:46:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2019/05/10 | 20:18:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | | |
| 2019/05/10 | 20:19:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2019/05/10 | 21:21:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/10 | 21:21:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/10 | 21:21:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2019/05/10 | 21:21:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2019/05/10 | 21:24:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2019/05/10 | 21:55:31.0 | XRT_Custom_430_OG [0x1ae] | | | | | | |
| 2019/05/10 | 21:56:31.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2019/05/10 | 22:59:30.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/10 | 22:59:32.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/10 | 22:59:34.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2019/05/10 | 22:59:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2019/05/10 | 23:02:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2019/05/10 | 23:30:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | | |
| 2019/05/10 | 23:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2019/05/11 | 00:38:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/11 | 00:38:02.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/11 | 00:38:04.0 | XRT_FLD_RESET_415_OG [0x19f] | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | |
| 2019/05/11 | 00:38:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | |
| 2019/05/11 | 00:41:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | |
| 2019/05/11 | 01:03:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | | |
| 2019/05/11 | 01:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2019/05/11 | 01:59:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/11 | 01:59:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/11 | 01:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2019/05/11 | 02:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2019/05/11 | 02:00:18.0 | XRT_FLD_DIS_409_OG [0x199] | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | |
| 2019/05/11 | 02:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | |
| 2019/05/11 | 02:00:22.0 | XRT_ARS_DIS_443_OG [0x1bb] | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2019/05/11 | 02:02:58.0 | XRT_QT_PROG_SET_418_OG [0x1a2] | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0c | | |
| 2019/05/11 | 02:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198] | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2019/05/11 | 02:09:54.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/11 | 02:09:56.0 | XRT_CTRL_MANU_402_OG [0x192] | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2019/05/11 | 02:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2019/05/11 | 02:10:00.0 | AOCS_ORe-point_Start_1_OG [0x097] | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 04 | 00 | 00 | 00 |

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|------------|------------|-----------------------------------|---------------------|---|-------|----|-------------|--|
| 2019/05/11 | 02:10:18.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2019/05/11 | 02:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2019/05/11 | 02:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2019/05/11 | 02:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2019/05/11 | 02:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2019/05/11 | 02:11:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 02:11:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 02:11:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2019/05/11 | 02:11:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2019/05/11 | 02:12:56.0 | XRT_QT_PROG_SET_401_OG [0x191] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0b | |
| 2019/05/11 | 02:12:58.0 | XRT_FL_PROG_SET_440_OG [0x1b8] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d | |
| 2019/05/11 | 02:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2019/05/11 | 02:42:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | |
| 2019/05/11 | 02:43:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2019/05/11 | 03:45:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 03:45:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 03:45:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2019/05/11 | 03:45:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2019/05/11 | 03:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2019/05/11 | 04:20:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | |
| 2019/05/11 | 04:21:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2019/05/11 | 05:15:30.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 05:15:32.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 05:15:34.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2019/05/11 | 05:15:36.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | |
| 2019/05/11 | 05:18:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | |
| 2019/05/11 | 06:00:24.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 06:00:26.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 06:00:28.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff aa 00 | |
| 2019/05/11 | 06:00:30.0 | AOCS_Ore-point_Start_2_OG [0x098] | AOCU_NM | 5 | 02-76 | 00 | 00 00 00 00 | |
| 2019/05/11 | 06:00:48.0 | XRT_FLD_DIS_409_OG [0x199] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | |
| 2019/05/11 | 06:00:50.0 | XRT_FLRCTRL_DIS_413_OG [0x19d] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | |
| 2019/05/11 | 06:00:52.0 | XRT_ARS_DIS_443_OG [0x1bb] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2019/05/11 | 06:03:28.0 | XRT_QT_PROG_SET_442_OG [0x1ba] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 05 | |
| 2019/05/11 | 06:03:30.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2019/05/11 | 06:10:24.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 06:10:26.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | |
| 2019/05/11 | 06:10:28.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe 97 00 | |
| 2019/05/11 | 06:10:30.0 | AOCS_Ore-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 04 | 00 00 00 00 | |
| 2019/05/11 | 06:10:48.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | |
| 2019/05/11 | 06:10:50.0 | XRT_FLRCTRL_ENA_412_OG [0x19c] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | |
| 2019/05/11 | 06:10:52.0 | XRT_AEC_RESET_448_OG [0x1c0] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | |
| 2019/05/11 | 06:10:54.0 | XRT_ARS_DIS_423_OG [0x1a7] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | |
| 2019/05/11 | 06:10:56.0 | XRT_FLD_RESET_434_OG [0x1b2] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | |
| 2019/05/11 | 06:13:26.0 | XRT_QT_PROG_SET_401_OG [0x191] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0b | |
| 2019/05/11 | 06:13:28.0 | XRT_FL_PROG_SET_440_OG [0x1b8] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0d | |
| 2019/05/11 | 06:13:30.0 | XRT_CTRL_AUTO_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | |
| 2019/05/11 | 06:56:00.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2019/05/11 | 06:56:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/11 | 06:56:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/11 | 06:56:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/11 | 06:59:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/11 | 07:37:00.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/11 | 07:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_OG [0x1a8] | | | |
| 2019/05/11 | 08:36:00.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/11 | 08:36:02.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/11 | 08:36:04.0 | XRT_FLD_RESET_415_OG [0x19f] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2019/05/11 | 08:36:06.0 | XRT_PREFLR_STRT_428_OG [0x1ac] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2019/05/11 | 08:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2019/05/11 | 09:15:30.0 | XRT_Custom_430_OG [0x1ae] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2019/05/11 | 09:16:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8] | XRT_OG [0x1a8] | | | |
| 2019/05/11 | 10:00:00.0 | XRT_CTRL_MANU_402_OG [0x192] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2019/05/11 | 10:17:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| | | AOCU_NM | | 5 | 02-76 | 00 00 00 00 00 |