

# XRT Timeline to be uploaded on 2011/08/11

Period: 2011/08/11 10:09:00 - 2011/08/16 11:04:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

| XOB #189C: AR Standard-B(Morphology) with eruption PFB, FW1=Open, Ti/Poly, 384x384 at 1064 1048, 15sec-cad |                       |                |   |      |       |       |     |     |                      |       |            |          |        |
|--|-----------------------|----------------|---|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)       |                | Comment   |      |       |       |     |     |                      |       |            |          |        |
| 08/11 10:22:00 - 08/11 17:31:30  | Fixed ( 877.0, 238.5) |                | # OP start + 10min, AR 11263, at and beyond W limb. Major Flare Watch, so HOP 195 point |      |       |       |     |     |                      |       |            |          |        |
| 08/12 06:13:00 - 08/12 07:59:54  | Fixed ( 877.0, 238.5) |                | # Cont.   |      |       |       |     |     |                      |       |            |          |        |
| <b>PROG= 02 Inf.-time(s)</b>   |                       |                |   |      |       |       |     |     |                      |       |            |          |        |
| └─ Subr= 2 1-time(s) 2.0sec  |                       |                |   |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 19 1-time(s) 2.0sec   |                       |                |   |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Ti-poly          | Open/thick-Al  | close   | Safe | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
|  | Open/G-band           | Open/G-band    | open  | Safe | Norm  | 63ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| └─ Seqn= 41 4-time(s) 2.0sec   |                       |                |   |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Al-mesh          | Open/Ti-poly   | close   | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/Ti-poly          | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/thick-Al         | Open/thick-Be  | close   | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ Subr= 1 1-time(s) 2.0sec  |                       |                |   |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 13 55-time(s) 15.0sec   |                       |                |   |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Ti-poly          | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/Ti-poly          | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 2x2 | 512x512 (1064, 1048) | Q=95  | 2          | 1        | 2.0sec |
|  | Open/Ti-poly          | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 2x2 | 512x512 (1064, 1048) | Q=95  | 2          | 2        | 2.0sec |
|  | Open/Ti-poly          | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |
|  | Default Filter        | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| XOB #17DC: Synoptic Q95 2x2 - Al/mesh(33/512) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(64/1024) + G-band(12) |                   |                |   |      |       |       |     |     |                        |       |            |          |        |
|--|-------------------|----------------|---|------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)   |                | Comment   |      |       |       |     |     |                        |       |            |          |        |
| 08/11 18:17:30 - 08/11 18:24:24  | Fixed ( 0.0, 0.0) |                | synoptic, shifted 14.5 min                                |      |       |       |     |     |                        |       |            |          |        |
| 08/12 06:03:00 - 08/12 06:09:54  | Fixed ( 0.0, 0.0) |                | synoptic  |      |       |       |     |     |                        |       |            |          |        |
| 08/12 18:02:00 - 08/12 18:08:54  | Fixed ( 0.0, 0.0) |                | synoptic, shifted -1.0 min                                |      |       |       |     |     |                        |       |            |          |        |
| 08/13 05:18:00 - 08/13 07:59:54  | Fixed ( 0.0, 0.0) |                | synoptic, shifted manually, extended for SOT flat fields. |      |       |       |     |     |                        |       |            |          |        |
| <b>PROG= 18 1-time(s)</b>  |                   |                |   |      |       |       |     |     |                        |       |            |          |        |
| └─ Subr= 1 1-time(s) 12.0sec   |                   |                |   |      |       |       |     |     |                        |       |            |          |        |
| └─ Seqn= 20 1-time(s) 4.0sec   |                   |                |   |      |       |       |     |     |                        |       |            |          |        |
|  | Open/Al-mesh      | Open/Ti-poly   | close   | Safe | Norm  | 32ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|  | Open/Al-mesh      | Open/Ti-poly   | close   | Safe | Norm  | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Seqn= 31 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 |
| └─ Seqn= 77 1-time(s) 4.0sec   |                   |                |   |      |       |       |     |     |                        |       |            |          |        |
|  | Open/Ti-poly      | Open/Ti-poly   | close   | Safe | Norm  | 24ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|  | Open/Ti-poly      | Open/thick-Al  | close   | Safe | Norm  | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Seqn= 63 1-time(s) 2.0sec   |                   |                |   |      |       |       |     |     |                        |       |            |          |        |
|  | Open/G-band       | Open/G-band    | open  | Safe | Norm  | 12ms  | Obs | 2x2 | 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 #189B: AR Standard-B(Morphology) with eruption PFB, FW1=Open, Ti/Poly, 384x384 at 1064 1048, 80sec-cad |  |                |   |      |       |       |     |     |                      |       |            |          |        |
|--|--|----------------|---|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)                        |                | Comment   |      |       |       |     |     |                      |       |            |          |        |
| 08/11 18:27:30 - 08/12 05:59:54  | Fixed ( 877.0, 238.5)                  |                | # Cont.   |      |       |       |     |     |                      |       |            |          |        |
| 08/12 08:03:00 - 08/12 11:59:54  | Track ( 502.3, 207.4) @ 08/12 08:00:00 |                | * HOP 195, with La Palma.   |      |       |       |     |     |                      |       |            |          |        |
| 08/12 12:03:00 - 08/12 16:30:30  | Fixed ( 877.0, 238.5)                  |                | * AR at W limb.   |      |       |       |     |     |                      |       |            |          |        |
| 08/12 23:03:00 - 08/13 01:34:54  | Track ( 770.2, 250.0) @ 08/12 23:00:00 |                | * HOP 128 with Hida, wave propagation obs on AR 11266. (Start obs at 23:35, following SA) |      |       |       |     |     |                      |       |            |          |        |
| 08/13 03:38:00 - 08/13 05:14:54  | Track ( 789.6, 253.8) @ 08/13 03:35:00 |                | * Cont. tracking AR 11266.  |      |       |       |     |     |                      |       |            |          |        |
| 08/13 08:03:00 - 08/13 10:29:00  | Track ( 659.3, 221.8) @ 08/13 08:00:00 |                | * HOP 195 with La Palma.  |      |       |       |     |     |                      |       |            |          |        |
| <b>PROG= 11 Inf.-time(s)</b>   |  |                |   |      |       |       |     |     |                      |       |            |          |        |
| └─ Subr= 2 1-time(s) 2.0sec  |  |                |   |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 19 1-time(s) 2.0sec   |  |                |   |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Ti-poly                           | Open/thick-Al  | close   | Safe | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
|  | Open/G-band                            | Open/G-band    | open  | Safe | Norm  | 63ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| └─ Seqn= 41 4-time(s) 2.0sec   |  |                |   |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Al-mesh                           | Open/Ti-poly   | close   | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/Ti-poly                           | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/thick-Al                          | Open/thick-Be  | close   | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ Subr= 1 1-time(s) 2.0sec  |  |                |   |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 13 30-time(s) 80.0sec   |  |                |   |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Ti-poly                           | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/Ti-poly                           | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 2x2 | 512x512 (1064, 1048) | Q=95  | 2          | 1        | 2.0sec |
|  | Open/Ti-poly                           | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 2x2 | 512x512 (1064, 1048) | Q=95  | 2          | 2        | 2.0sec |
|  | Open/Ti-poly                           | Open/thick-Al  | close   | Safe | Norm  | 500ms | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |
|  | Default Filter                         | Thicker Filter | VLS   | mode | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| XOB #189D: HOP195 2-filter - Ti/poly, Al/mesh, - 384x384, 60sec cad |   |  |                       |  |  |  |  |  |  |  |  |  |
|---|---|--|-----------------------|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)                         |  | Comment               |  |  |  |  |  |  |  |  |  |
| 08/12 17:15:00 - 08/12 17:58:54                                     | Track ( -102.0, -45.1) @ 08/12 17:00:00 |  | * HOP 196, with BBSO. |  |  |  |  |  |  |  |  |  |

|                              |  |                |  |         |      |       |       |     |     |                      |       |                     |
|------------------------------|--|----------------|--|---------|------|-------|-------|-----|-----|----------------------|-------|---------------------|
| <b>PROG= 03 Inf.-time(s)</b> |  |                |  |         |      |       |       |     |     |                      |       |                     |
| └ Subr= 2                    |  | 1-time(s)      |  | 2.0sec  |      |       |       |     |     |                      |       |                     |
| └ Seqn= 58                   |  | 1-time(s)      |  | 60.0sec |      |       |       |     |     |                      |       |                     |
| └ Open/Al-mesh               |  | Open/Al-mesh   |  | close   | Safe | Norm  | 4.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=90  | 0 0 2.0sec          |
| └ Open/Ti-poly               |  | Open/Ti-poly   |  | 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 #16AC: G-Band Alignment with North Pole Q90 2x2(G-band only) - 5min cadence - Partial Sun-wNGT**

|                                 |  |                     |  |                           |  |  |  |  |  |  |  |  |
|---------------------------------|--|---------------------|--|---------------------------|--|--|--|--|--|--|--|--|
| Term                            |  | Pointing (x, y)     |  | Comment                   |  |  |  |  |  |  |  |  |
| 08/12 21:15:00 - 08/12 22:59:54 |  | Fixed ( 0.0, 945.0) |  | * Co-alignment offset, N. |  |  |  |  |  |  |  |  |

|                           |  |                |  |          |      |       |      |     |     |                       |       |                     |
|---------------------------|--|----------------|--|----------|------|-------|------|-----|-----|-----------------------|-------|---------------------|
| <b>PROG= 14 1-time(s)</b> |  |                |  |          |      |       |      |     |     |                       |       |                     |
| └ Subr= 1                 |  | 1-time(s)      |  | 360.0sec |      |       |      |     |     |                       |       |                     |
| └ Seqn= 21                |  | 24-time(s)     |  | 300.0sec |      |       |      |     |     |                       |       |                     |
| └ Open/G-band             |  | Open/G-band    |  | open     | Safe | Norm  | 16ms | Obs | 2x2 | 2048x1536 (1024, 768) | Q=90  | 0 0 2.0sec          |
| Default Filter            |  | Thicker Filter |  | VLS      | mode | image | Exp. | CCD | Bin | ROI: size (center)    | Comp. | AEC Buffer Interval |

**XOB #16AD: G-Band Alignment with East limb Q90 2x2 (G-band only) - 8 min cadence-wNGT**

|                                 |  |                      |  |                           |  |  |  |  |  |  |  |  |
|---------------------------------|--|----------------------|--|---------------------------|--|--|--|--|--|--|--|--|
| Term                            |  | Pointing (x, y)      |  | Comment                   |  |  |  |  |  |  |  |  |
| 08/13 01:50:00 - 08/13 03:34:54 |  | Fixed ( -945.0, 0.0) |  | * Co-alignment offset, E. |  |  |  |  |  |  |  |  |

|                           |  |                |  |          |      |       |      |     |     |                        |       |                     |
|---------------------------|--|----------------|--|----------|------|-------|------|-----|-----|------------------------|-------|---------------------|
| <b>PROG= 06 1-time(s)</b> |  |                |  |          |      |       |      |     |     |                        |       |                     |
| └ Subr= 1                 |  | 1-time(s)      |  | 360.0sec |      |       |      |     |     |                        |       |                     |
| └ Seqn= 22                |  | 15-time(s)     |  | 480.0sec |      |       |      |     |     |                        |       |                     |
| └ Open/G-band             |  | Open/G-band    |  | open     | Safe | Norm  | 16ms | Obs | 2x2 | 1536x2048 (1280, 1024) | Q=90  | 0 0 2.0sec          |
| Default Filter            |  | Thicker Filter |  | VLS      | mode | image | Exp. | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer Interval |

\* \* \* \* \*

**Flare mode**

\* \* \* \* \*

**XOB #1828: Flare Standard Obs. with eruptions mode-A (FW1=Open)**

|                                 |  |   |  |  |  |  |  |  |  |  |  |  |
|---------------------------------|--|---|--|--|--|--|--|--|--|--|--|--|
| Term                            |  | Pointing (x, y)                         |  | Comment  |  |  |  |  |  |  |  |  |
| 08/11 10:22:00 - 08/11 17:31:30 |  | Fixed ( 877.0, 238.5)                   |  | # OP start + 10min, AR 11263, at and beyond W limb. Major Flare Watch, so HOP 195 point  |  |  |  |  |  |  |  |  |
| 08/11 18:27:30 - 08/12 05:59:54 |  | Fixed ( 877.0, 238.5)                   |  | # Cont.  |  |  |  |  |  |  |  |  |
| 08/12 06:13:00 - 08/12 07:59:54 |  | Fixed ( 877.0, 238.5)                   |  | # Cont.  |  |  |  |  |  |  |  |  |
| 08/12 08:03:00 - 08/12 11:59:54 |  | Track ( 502.3, 207.4) @ 08/12 08:00:00  |  | * HOP 195, with La Palma.  |  |  |  |  |  |  |  |  |
| 08/12 12:03:00 - 08/12 16:30:30 |  | Fixed ( 877.0, 238.5)                   |  | * AR at W limb.  |  |  |  |  |  |  |  |  |
| 08/12 17:15:00 - 08/12 17:58:54 |  | Track ( -102.0, -45.1) @ 08/12 17:00:00 |  | * HOP 196, with BBSO.  |  |  |  |  |  |  |  |  |
| 08/12 18:52:00 - 08/12 20:59:54 |  | Track ( -91.5, -45.3) @ 08/12 18:09:00  |  | # Cont.  |  |  |  |  |  |  |  |  |
| 08/12 23:03:00 - 08/13 01:34:54 |  | Track ( 770.2, 250.0) @ 08/12 23:00:00  |  | * HOP 128 with Hida, wave propagation obs on AR 11266. (Start obs at 23:35, following SA |  |  |  |  |  |  |  |  |
| 08/13 03:38:00 - 08/13 05:14:54 |  | Track ( 789.6, 253.8) @ 08/13 03:35:00  |  | * Cont. tracking AR 11266.   |  |  |  |  |  |  |  |  |
| 08/13 08:03:00 - 08/13 10:29:00 |  | Track ( 659.3, 221.8) @ 08/13 08:00:00  |  | * HOP 195 with La Palma.   |  |  |  |  |  |  |  |  |

|                           |  |               |  |         |      |      |       |     |     |                      |      |            |
|---------------------------|--|---------------|--|---------|------|------|-------|-----|-----|----------------------|------|------------|
| <b>PROG= 08 1-time(s)</b> |  |               |  |         |      |      |       |     |     |                      |      |            |
| └ Subr= 1                 |  | 30-time(s)    |  | 20.0sec |      |      |       |     |     |                      |      |            |
| └ Seqn= 87                |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Open/thick-Al           |  | Open/thick-Al |  | close   | Safe | Norm | 1.00s | 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= 60                |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Open/Al-mesh            |  | Open/Al-mesh  |  | close   | Safe | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 0 2.0sec |
| └ Open/Ti-poly            |  | Open/Ti-poly  |  | close   | Safe | Norm | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 0 2.0sec |
| └ Subr= 2                 |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Seqn= 90                |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Open/G-band             |  | Open/G-band   |  | open    | Safe | Norm | 63ms  | 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 |
| └ Subr= 3                 |  | 30-time(s)    |  | 60.0sec |      |      |       |     |     |                      |      |            |
| └ Seqn= 87                |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Open/thick-Al           |  | Open/thick-Al |  | close   | Safe | Norm | 1.00s | 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= 88                |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Open/Al-mesh            |  | Open/Al-mesh  |  | close   | Safe | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 0 2.0sec |
| └ Open/Ti-poly            |  | Open/Ti-poly  |  | close   | Safe | Norm | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 0 2.0sec |
| └ Subr= 2                 |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Seqn= 90                |  | 1-time(s)     |  | 2.0sec  |      |      |       |     |     |                      |      |            |
| └ Open/G-band             |  | Open/G-band   |  | open    | Safe | Norm | 63ms  | 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 |

|                                    |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|------------------------------------|----------------|----------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 3    30-time(s)    60.0sec   |                |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 87    1-time(s)    2.0sec |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|                                    | Open/thick-Al  | Open/thick-Al  | close | Safe | Norm  | 1.00s | 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= 88    1-time(s)    2.0sec |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|                                    | Open/Al-mesh   | Open/Al-mesh   | close | Safe | Norm  | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
|                                    | Open/Ti-poly   | Open/Ti-poly   | close | Safe | Norm  | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| Subr= 4    24-time(s)    600.0sec  |                |                |       |      |       |       |     |     |                      |       |            |          |        |
| └─ Seqn= 89    1-time(s)    2.0sec |                |                |       |      |       |       |     |     |                      |       |            |          |        |
|                                    | Open/Al-mesh   | Open/thick-Al  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
|                                    | Open/Ti-poly   | Open/thick-Be  | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
|                                    | Open/G-band    | Open/G-band    | open  | Safe | Norm  | 63ms  | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|                                    | Open/Al-mesh   | Open/Al-mesh   | close | Safe | Dark  | 1.00s | Obs | 1x1 | 384x384 (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

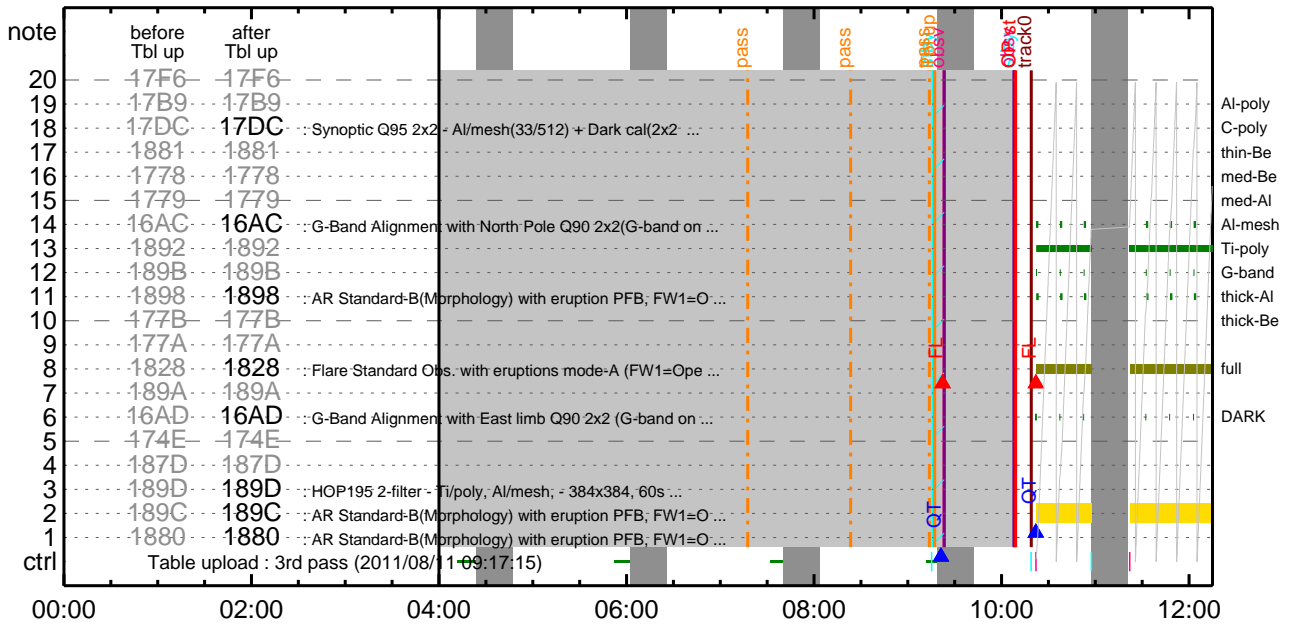
\* \* \* \* \*

### Flare Detection

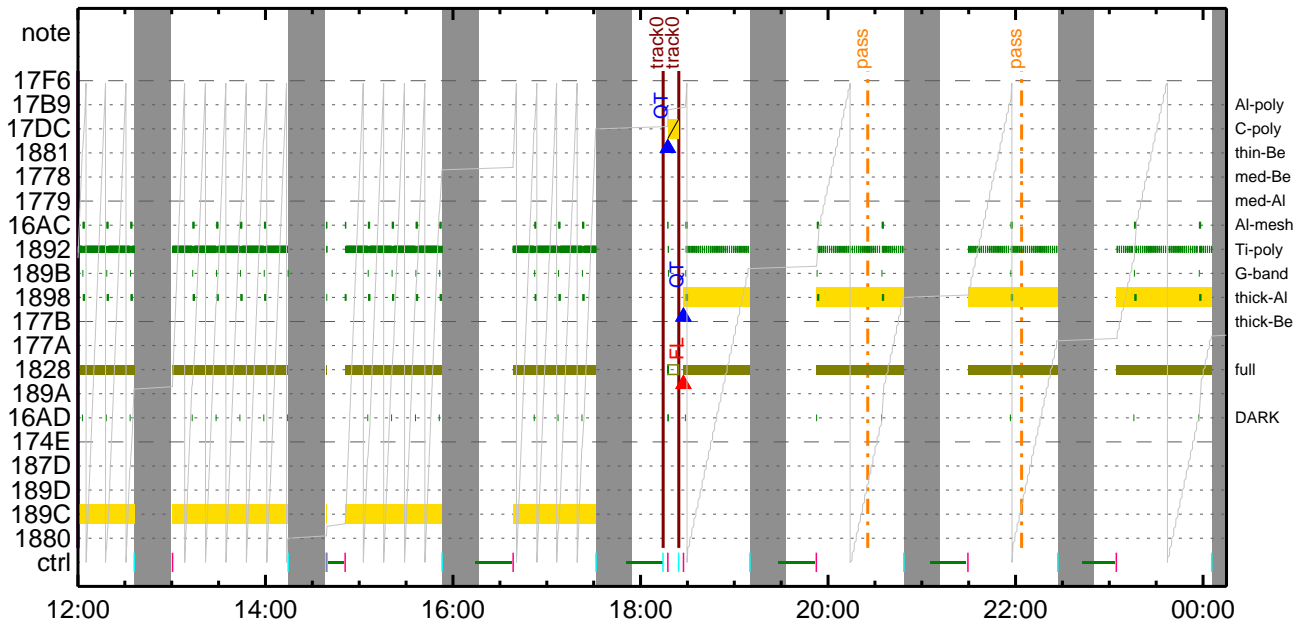
\* \* \* \* \*

| FLD Patrol                      |  |                |       |      |       |      |  |     |                    |       |            |          |
|---------------------------------|--|----------------|-------|------|-------|------|--|-----|--------------------|-------|------------|----------|
| Term                            | Pointing (x, y)                        |                |       |      |       |      | Comment  |     |                    |       |            |          |
| 08/11 18:27:16 - 08/12 06:00:16 | Fixed ( 877.0, 238.5)                  |                |       |      |       |      | # Cont.  |     |                    |       |            |          |
| 08/12 06:12:46 - 08/12 17:59:16 | Fixed ( 877.0, 238.5)                  |                |       |      |       |      | # Cont.  |     |                    |       |            |          |
| 08/12 18:11:46 - 08/12 21:00:18 | Track ( -91.5, -45.3) @ 08/12 18:09:00 |                |       |      |       |      | # Cont.  |     |                    |       |            |          |
| 08/12 23:02:46 - 08/13 01:35:18 | Track ( 770.2, 250.0) @ 08/12 23:00:00 |                |       |      |       |      | * HOP 128 with Hida, wave propagation obs on AR 11266. (Start obs at 23:35, following SA |     |                    |       |            |          |
| 08/13 03:37:46 - 08/13 05:15:16 | Track ( 789.6, 253.8) @ 08/13 03:35:00 |                |       |      |       |      | * Cont. tracking AR 11266.   |     |                    |       |            |          |
| 08/13 08:02:46 - 08/16 11:04:00 | Track ( 659.3, 221.8) @ 08/13 08:00:00 |                |       |      |       |      | * HOP 195 with La Palma.   |     |                    |       |            |          |
|                                 | 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 |

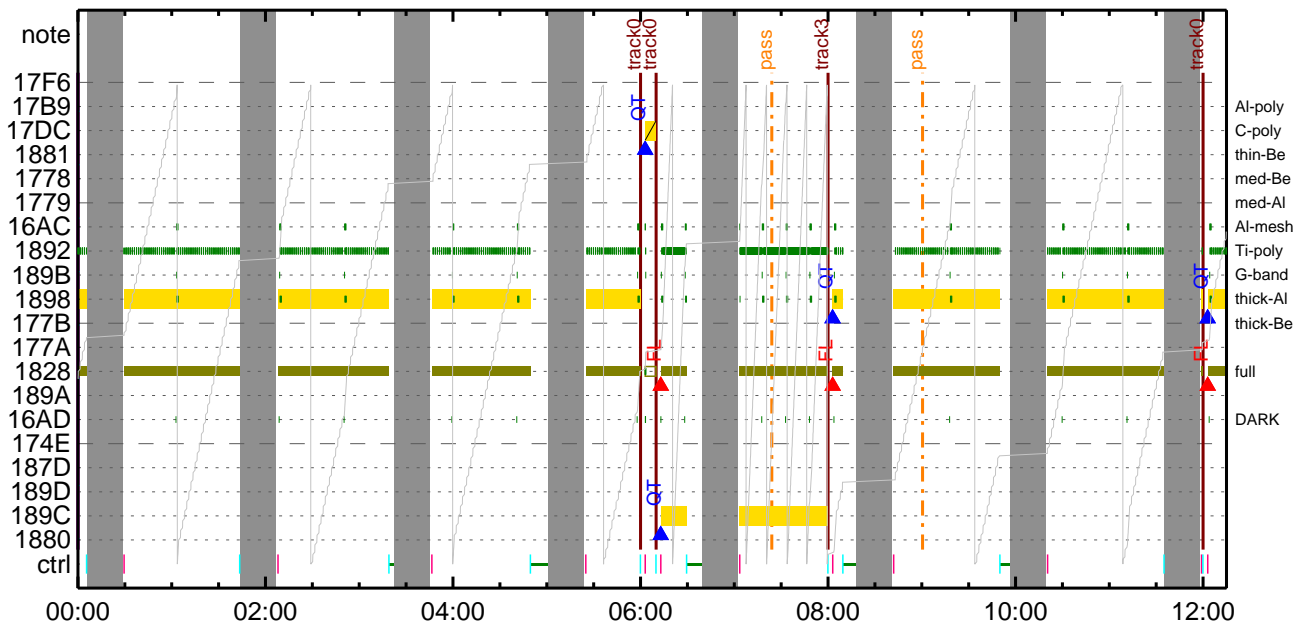
### CMDI #0083 2011/08/11



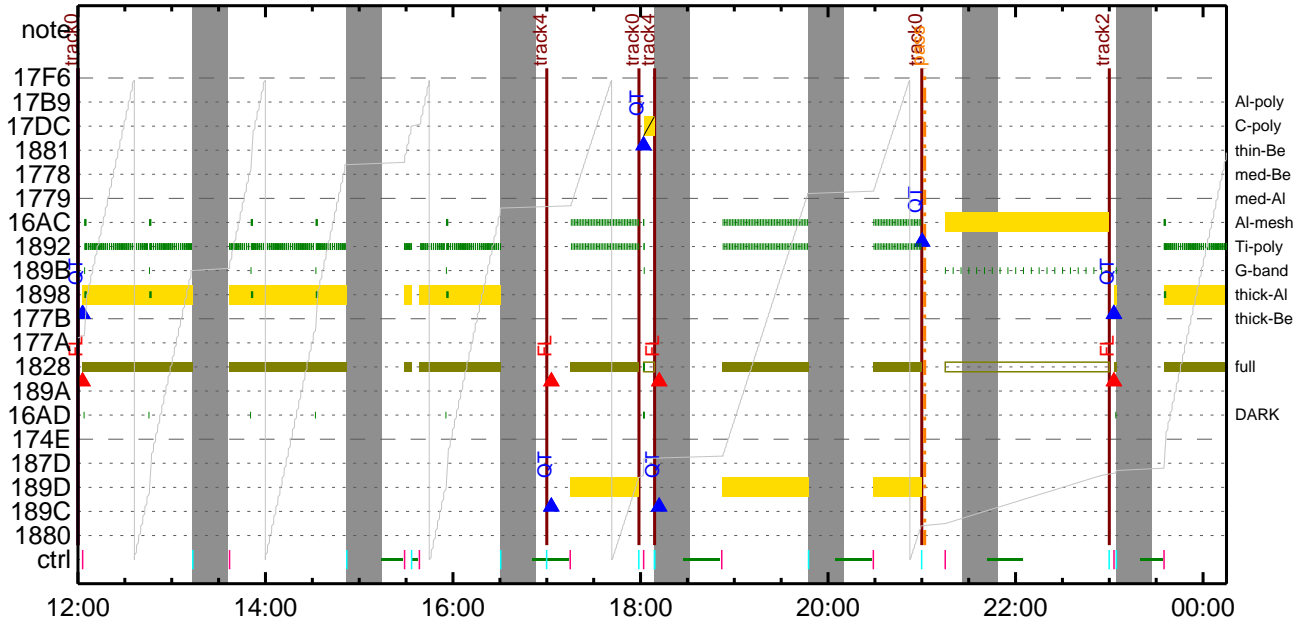
### CMDI #0083 2011/08/11



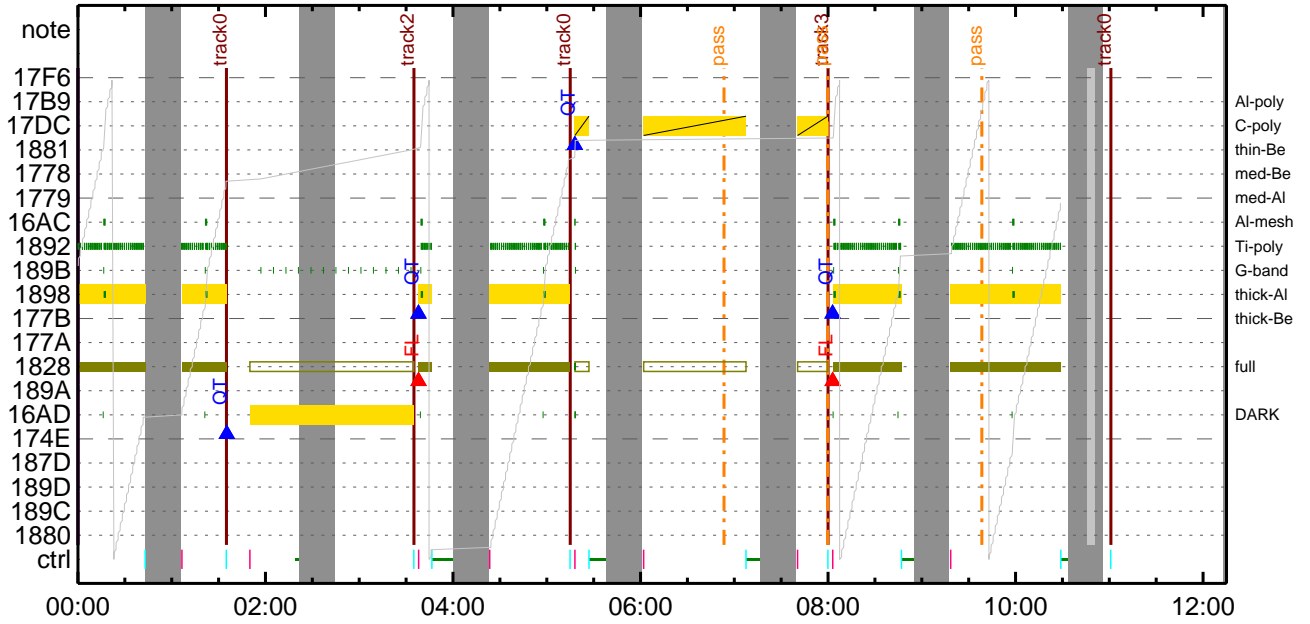
### CMDI #0083 2011/08/12



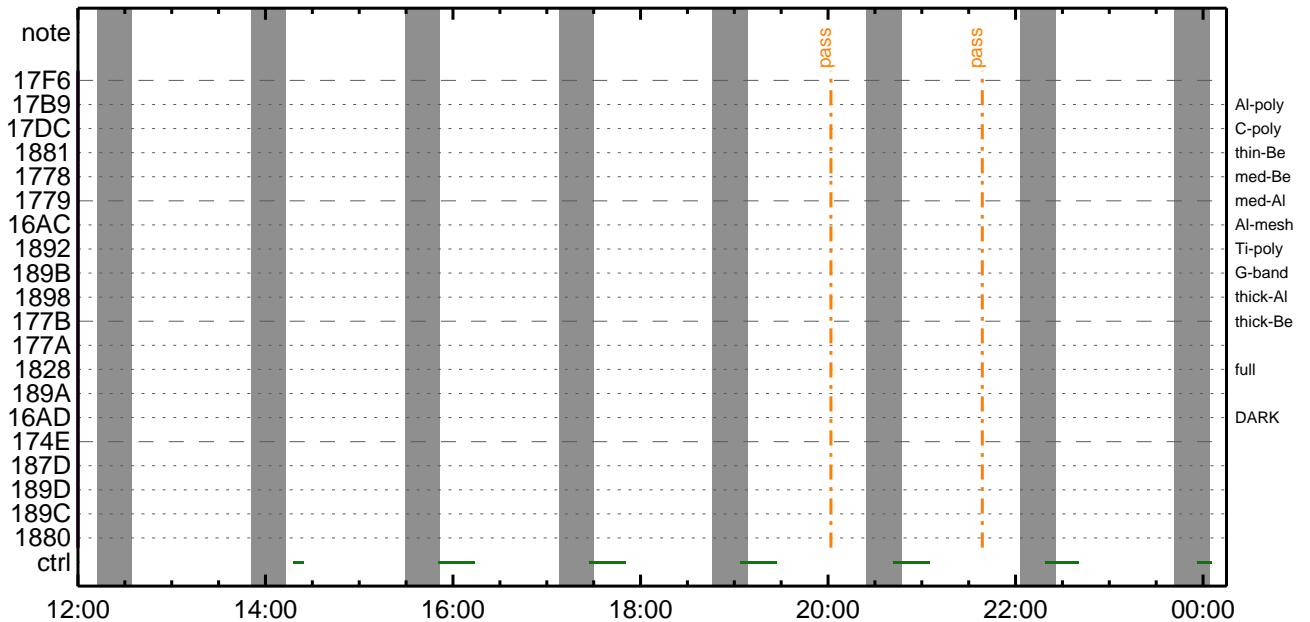
CMDI #0083 2011/08/12



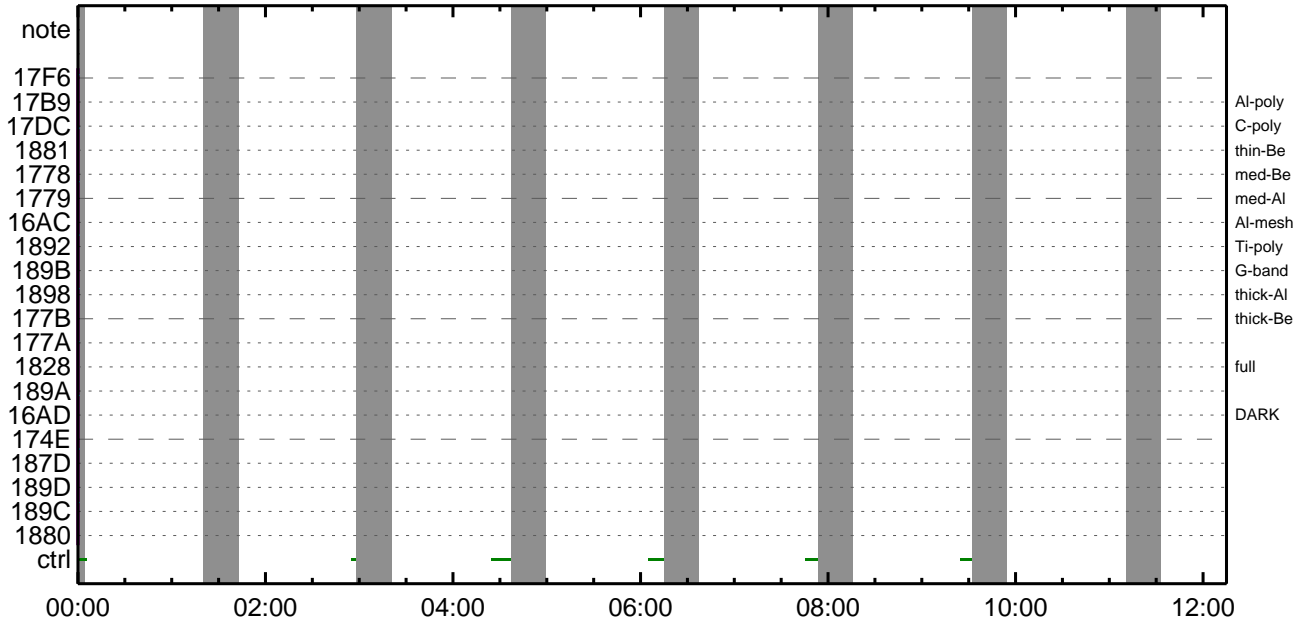
CMDI #0083 2011/08/13



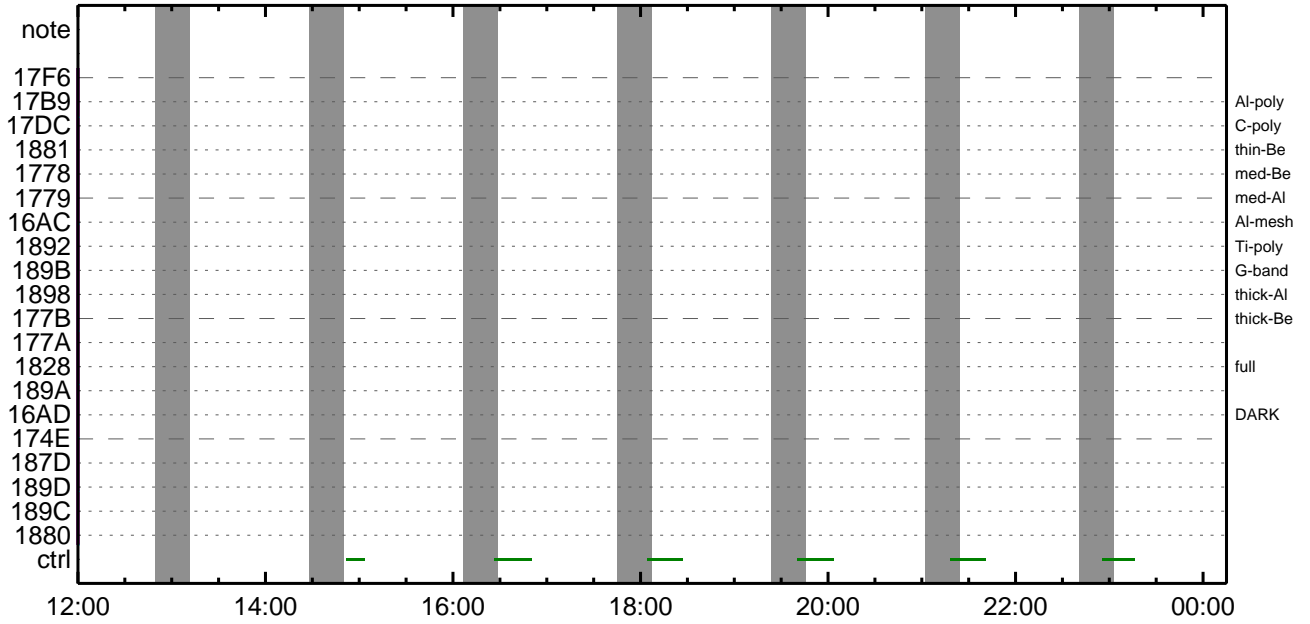
CMDI #0083 2011/08/13



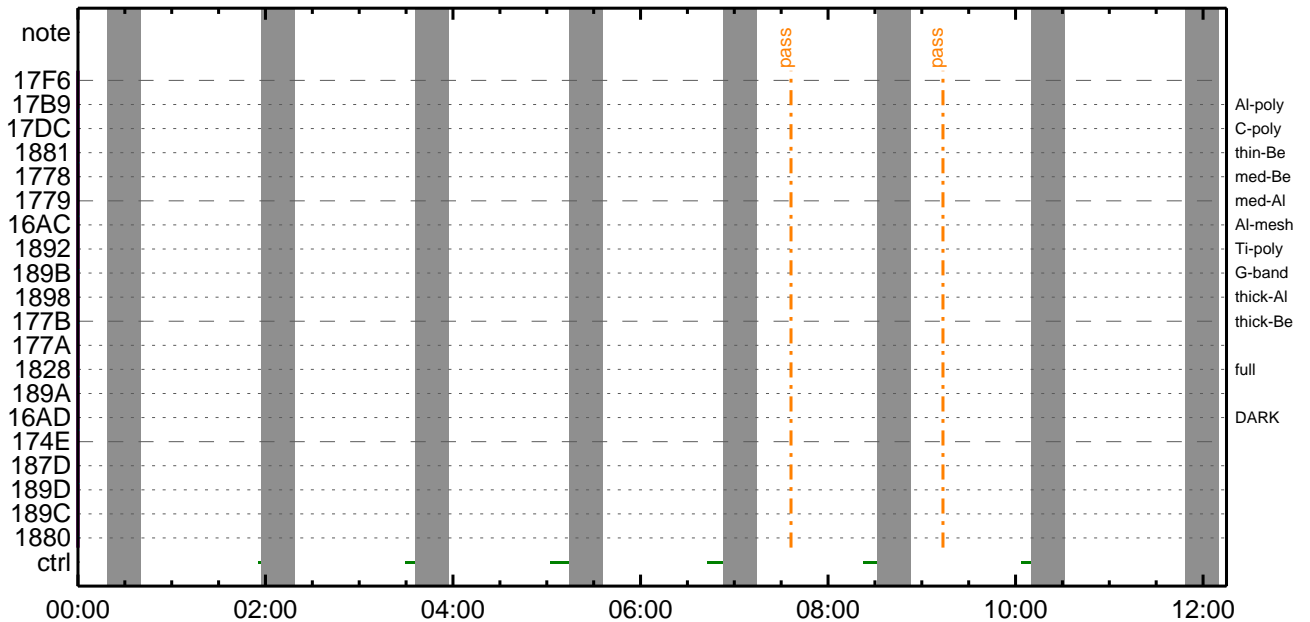
CMDI #0083 2011/08/14



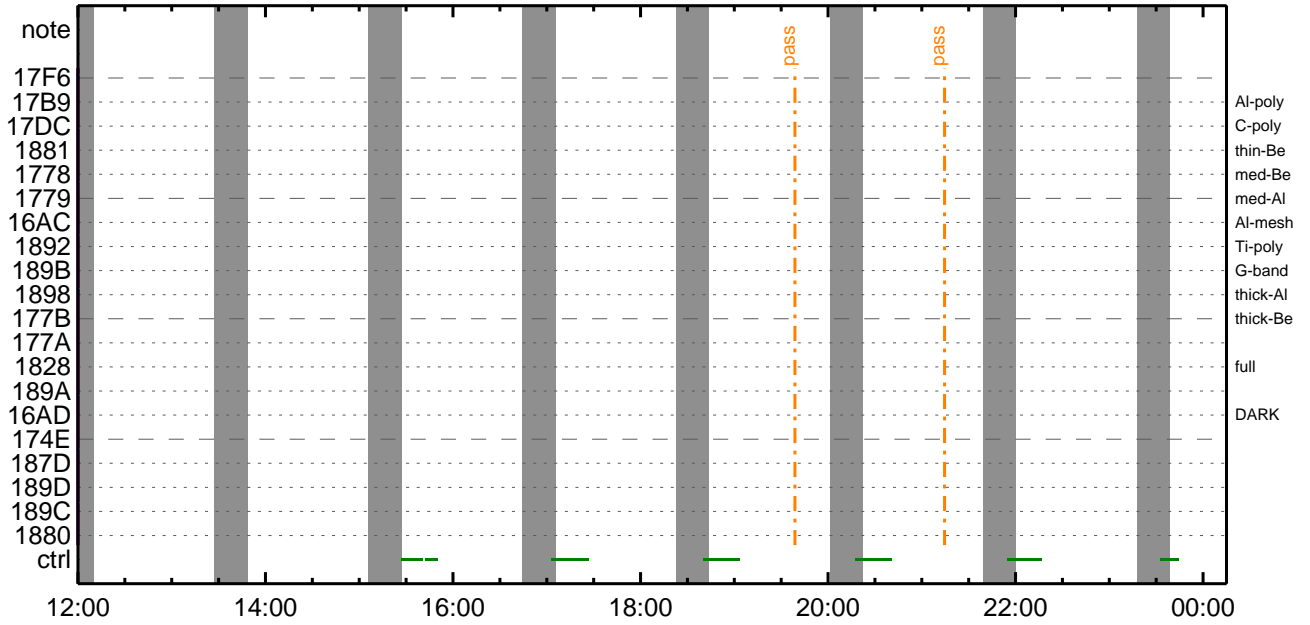
CMDI #0083 2011/08/14



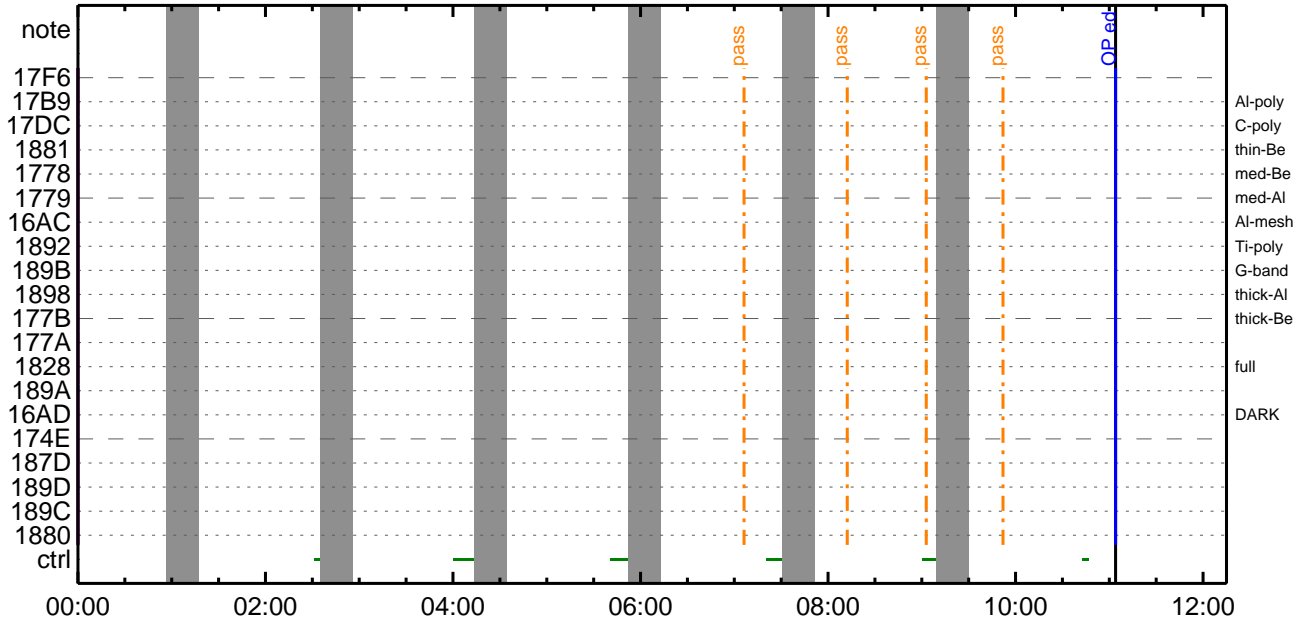
CMDI #0083 2011/08/15



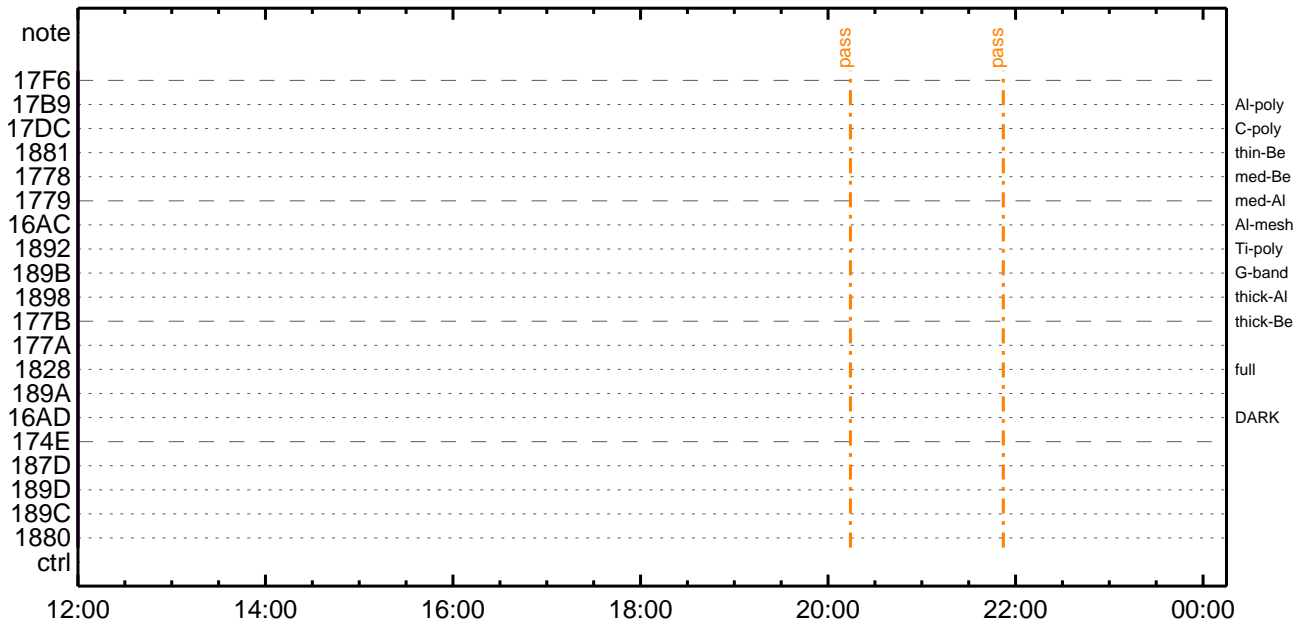
### CMDI #0083 2011/08/15



### CMDI #0083 2011/08/16



### CMDI #0083 2011/08/16







```

0096 C.                03SET0EDUMP01E±0iYNY¹aÇ¹Ôa|a³aE;f
0097 C.
0098 . C. TII³YFÿÖYÉ00dÁDÍ¿(UT)
0099 +. TI 2011-08-11 10:04:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                00[HK1_TI_CMD_NUM]                EQ                1COUNTUP
0102 C.
0103 +. TI 2011-08-11 10:04:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                00[HK1_TI_CMD_NUM]                EQ                1COUNTUP
0106 C.
0107 +. TI 2011-08-11 10:04:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                00[HK1_TI_CMD_NUM]                EQ                1COUNTUP
0110 C.
0111 +. TI 2011-08-11 10:08:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                00[HK1_TI_CMD_NUM]                EQ                1COUNTUP
0114 C.
0115 C. °E²¼0IÁê%íÍÑ0IYÁY$YÁY-¹àìÛ
0116 C.                00[HK1_TI_CMD_ENA/DIS]                EQ                ENA
0117 C.                00[HK1_TI_CMD_NUM]                EQ                4
0118 C.                00[HK1_NEXT_EXEC_PIM]                EQ                DHU
0119 C.                00[HK1_NEXT_EXEC_DC]                EQ                0xB3
0120 C.
0121 . C. *****
0122 C. TIIÍ°èYÁYÓY×
0123 C. *****
0124 C.
0125 C. TI_TBL(0x03AB00-0x03AEFF;$ 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC (03 ab 03 01 02)
0128 C.                00[HK1_DMP_TOP_ADRS_1]                EQ                07
0129 C.                00[HK1_DMP_TOP_ADRS_0]                EQ                2B
0130 C.                00[HK1_DMP_BLOCK_NUM]                EQ                3
0131 C.                00[HK1_DMP_REPEAT_NUM]                EQ                0
0132 C.                00[HK1_DMA_DMP_PIM]                EQ                DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC (07 0b f8)
0135 C.                00[HK1_PKT_FORM_NO]                EQ                7
0136 C.                00[HK1_PKT_GEN_TIME]                EQ                0.25 s
0137 C.                00[HK1_S_TLM_BIT_RATE]                EQ                32k
0138 C.                00[HK1_X_TLM_BIT_RATE]                EQ                4M
0139 C.                00[HK1_DMP_CHK_FLG]                EQ                EXEC
0140 C.
0141 . C. YÁYÓY×¼¹I»0d³ÍÇ$
0142 C.                00[HK1_DMP_CHK_FLG]                EQ                NON
0143 C.
0144 . C. RAM ID=TI_TBL0I%Ê¹Ç•è²IOK0d³ÍÇ$
0145 C.
0146 . C. DHUÿá;¼YÉ;Ê¼Y¼,Yì;¼YÈ;Ê0dÌá0¹
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC (02 0a f8)
0149 C.                00[HK1_PKT_FORM_NO]                EQ                2
0150 C.                00[HK1_PKT_GEN_TIME]                EQ                0.5S
0151 C.                00[HK1_S_TLM_BIT_RATE]                EQ                32K
0152 C.                00[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 2011-08-11 10:08:16.0
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 2011-08-11 10:08:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2011-08-11 10:08:40.0
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 2011-08-11 10:08:00.0
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 `úÃÍ0I»0¼Y0EÁD0¹0èDCBC•×²è *****
0192 C. (%â0IYÓYÁYËYËYËYÁYÇYè0E¼00¼Á»Û0¹0é)
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.
```

(a) Spacecraft Operation Procedure (real-commands)

```

main-252 2011-08-11 12:26:18 166 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSÝÁÝÏÝÁÝ-¼Á»Û;ã
0005 C.
0006 C. ÝÀÝË;¼Ý³ÝËÝÓÝÉÁ+¿©
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ëò¿òÀò•µ°Ë»Í×ÁÇòÍÝçÝÁÝ×Ýí;¼ÝÉ;ËËÈ¿µ•ííË;ËòÈ¼°ÇÒò•ò¿¼í¹çòí;çÀ®;ùò¹òÈòòçÀ+¿©ò•òÈòòò³òÈ;í
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ+¿@µ;ON
0016 C. *****
0017 C. ç" °ËÀ,í×ËÝòáLOòòòçòí»´Òòò¹íí,ò.;çËÒí×òËXÁÒONòí¹ÒòÈòíòÈòòò³òÈ;í
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç[HK1_XPA_ON/OFF] EQ ON
0025 C. çç[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç[HK1_XMOD_ON/OFF] EQ ON
0027 C. çç[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XÝDÝÓÝÉÝíÝÁÝ-¾ÒÁÒò-òÁÁÈò•ò¿òé;ç°È²¼òí°ËÀ,¼È¿çòò¼Á¹Òò¹òÈ;í
0030 C.
0031 . C. *****
0032 C. DR PT1 Áí¼í°ËÀ,
0033 C. *****
0034 C. ç" RESTART;ËPT1;Ëò•ò¿òò¼í¹çòí;ç°È²¼òí°ËÀ¹Òò»°;çDCBC-150ò¿¿Ëòà;í
0035 C.
0036 . C. ;ãPT1°ËÀ,³«»í;ã
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Á¹Ò.,¼Ú)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ò.,¼Ú)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ò.,¼Ú)
0045 C.
0046 . C. ;ãÝçÝÓÝÉÝËËÁÙÁÔ;ËÁ•Á°²òÈò;Ë.ãòí°ËÀ,°Ë³«;ã
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Á¹Ò.,¼Ú)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ò.,¼Ú)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ò.,¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ËÀ,ò-¼«Ë°Áá»òòò¿;ã;ç°È²¼òò¼Á¹Òò¹òÈ;í
0055 C. ÝçÝÓÝÉÝËËÁÙÁÔòòÁ•Á°²òÈòò-¼áòò¼í¹çòí°ËÀ¹Òò»°òòòòçÀÒòÀ;í
0056 C.
0057 . C. *****
0058 C. DR PT2 Áí¼í°ËÀ,
0059 C. *****
0060 C. ç" RESTART;ËPT2;Ëò•ò¿òò¼í¹çòí;ç°È²¼òí°ËÀ¹Òò»°;çDCBC-151ò¿¿Ëòà;í
0061 C.
0062 . C. ;ãPT2°ËÀ,³«»í;ã
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Á¹Ò.,¼Ú)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ò.,¼Ú)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ò.,¼Ú)
0071 C.
0072 . C. ;ãÝçÝÓÝÉÝËËÁÙÁÔ;ËÁ•Á°²òÈò;Ë.ãòí°ËÀ,°Ë³«;ã
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Á¹Ò.,¼Ú)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ò.,¼Ú)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ò.,¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ËÀ,Áá»ò;çXÁ+¿@µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ËÀ,Áá»ò;ã
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç[HK1_REP_STA/STP] EQ STOP
0087 C. çç[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÁ+¿@µ;OFF;ã
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç[HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç[HK1_XPA_ON/OFF] EQ OFF

```

```

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_MANU
0131 BC (21 02)
0132 . C. Verify EIS in MANUAL mode
0133 . C. Estimated OBSTBL upload time is 13s
0134 C. *****
0135 C. EIS START OBSTBL LOAD
0136 C. *****
0137 . S. RAM ram-820:EIS_OBSTBL
0138 ( )
0139 +. DC 07-FC EIS_DUMP_OBSTBL
0140 BC (07 07 07 00 00 70 00)
0141 C.
0142 C. Execute, after the success of OBSTBL upload.
0143 C. Set EIS TI-commands
0144 +. TI 2011-08-11 10:08:50.0
0145 DC 07-FC EIS_MODE_CHG_ENA
0146 BC (20)
0147 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0148 C. *****
0149 C. EIS END OBSTBL LOAD
0150 C. *****
0151 C.
0152 . C. ***** MDP `úÃîï»ö¼ÝñĒÄĐñ¹ēDCBC•x²è *****
0153 C. (¼ā°İ¥Ō¥Ā¥Ē¥P¥Ē¥Ā¥Ç¥ĒñĒ¼¼ā»Ūñ¹ē)
0154 . S. DC-BC dcbc-402:DCBC
0155 (MDP_known_event)
0156 C.
0157 C.
0158 . C. ***** ¥Đ¥¹•İ Daily±¿İÑñĒ´Ōñ¹ēDCBC•x²è *****
0159 . S. DC-BC dcbc-153:DCBC
0160 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161 C.
0162 C.
0163 . C. ;ãLOS¥Ā¥Ş¥Ā¥-¼Ā»Ū;ã
0164 C.
0165 . C. ***** LOS *****
0166 C.

```





Aug 11, 11 12:26

XRT\_OGLIST\_0083.chk

Page 1/7

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

|            |            |                                   |   |       |                |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|
| 2011/08/11 | 10:18:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 10:19:00.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 ea d1 b2 0d |  |  |
| 2011/08/11 | 10:21:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2011/08/11 | 10:21:46.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |
| 2011/08/11 | 10:21:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |
| 2011/08/11 | 10:21:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |
| 2011/08/11 | 10:21:52.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |
| 2011/08/11 | 10:21:54.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2011/08/11 | 10:21:56.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 02          |  |  |
| 2011/08/11 | 10:21:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 08          |  |  |
| 2011/08/11 | 10:22:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2011/08/11 | 10:57:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 10:57:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2011/08/11 | 10:57:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2011/08/11 | 11:00:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2011/08/11 | 11:21:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |
| 2011/08/11 | 11:22:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2011/08/11 | 12:36:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 12:36:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2011/08/11 | 12:36:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2011/08/11 | 12:39:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2011/08/11 | 12:59:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |
| 2011/08/11 | 13:00:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2011/08/11 | 14:14:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 14:14:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2011/08/11 | 14:14:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2011/08/11 | 14:17:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2011/08/11 | 14:38:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |
| 2011/08/11 | 14:39:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2011/08/11 | 14:39:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 14:39:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2011/08/11 | 14:39:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2011/08/11 | 14:42:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2011/08/11 | 14:50:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |
| 2011/08/11 | 14:51:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2011/08/11 | 15:53:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 15:53:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2011/08/11 | 15:53:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2011/08/11 | 15:56:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2011/08/11 | 16:37:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |
| 2011/08/11 | 16:38:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |
| 2011/08/11 | 17:31:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 17:31:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |
| 2011/08/11 | 17:31:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |
| 2011/08/11 | 17:34:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |
| 2011/08/11 | 18:14:24.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |
| 2011/08/11 | 18:14:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2011/08/11 | 18:14:30.5 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |

Thursday August 11, 2011

1/7

Aug 11, 11 12:26

## XRT\_OGLIST\_0083.chk

Page 2/7

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2011/08/11 | 18:14:46.0 | XRT_FLD_DIS_402_OG [0x192]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2011/08/11 | 18:14:48.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2011/08/11 | 18:14:50.0 | XRT_ARS_DIS_438_OG [0x1b6]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/08/11 | 18:17:28.0 | XRT_QT_PROG_SET_448_OG [0x1c0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2011/08/11 | 18:17:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/11 | 18:24:24.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/11 | 18:24:30.0 | AOCS_ORe-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 ea d1 b2 0d |  |  |  |  |
| 2011/08/11 | 18:26:56.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2011/08/11 | 18:27:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/08/11 | 18:27:18.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/08/11 | 18:27:20.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/08/11 | 18:27:22.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/08/11 | 18:27:24.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/11 | 18:27:26.0 | XRT_QT_PROG_SET_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0b          |  |  |  |  |
| 2011/08/11 | 18:27:28.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 08          |  |  |  |  |
| 2011/08/11 | 18:27:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/11 | 19:10:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/11 | 19:10:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/11 | 19:10:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/11 | 19:13:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/11 | 19:51:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/11 | 19:52:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/11 | 20:48:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/11 | 20:48:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/11 | 20:48:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/11 | 20:51:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/11 | 21:28:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/11 | 21:29:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/11 | 22:27:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/11 | 22:27:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/11 | 22:27:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/11 | 22:30:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/11 | 23:03:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/11 | 23:04:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 00:05:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 00:05:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 00:05:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 00:08:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 00:28:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 00:29:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 01:43:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 01:43:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 01:43:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 01:46:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 02:07:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 02:08:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 03:19:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 03:19:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 03:19:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |



Aug 11, 11 12:26

## XRT\_OGLIST\_0083.chk

Page 3/7

|            |            |                                    |   |       |                |  |  |  |  |
|------------|------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2011/08/12 | 03:22:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 03:45:30.0 | XRT_Custom_418_OG [0x1a2]          |   |       |                |  |  |  |  |
| 2011/08/12 | 03:46:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 04:49:30.0 | XRT_CTRL_MANU_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 04:49:32.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 04:49:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 04:52:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 05:24:00.0 | XRT_Custom_418_OG [0x1a2]          |   |       |                |  |  |  |  |
| 2011/08/12 | 05:25:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 05:59:54.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 05:59:56.0 | XRT_FOCUS_POSITION_401_OG [0x191]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2011/08/12 | 06:00:00.0 | AOCS_Or-e-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2011/08/12 | 06:00:16.0 | XRT_FLD_DIS_402_OG [0x192]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | d9             |  |  |  |  |
| 2011/08/12 | 06:00:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |  |  |  |  |
| 2011/08/12 | 06:00:20.0 | XRT_ARS_DIS_438_OG [0x1b6]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/08/12 | 06:02:58.0 | XRT_QT_PROG_SET_448_OG [0x1c0]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2011/08/12 | 06:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 06:09:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 06:10:00.0 | AOCS_Or-e-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 ea d1 b2 0d |  |  |  |  |
| 2011/08/12 | 06:12:26.0 | XRT_FOCUS_POSITION_409_OG [0x199]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2011/08/12 | 06:12:46.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/08/12 | 06:12:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/08/12 | 06:12:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/08/12 | 06:12:52.0 | XRT_ARS_DIS_431_OG [0x1af]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/08/12 | 06:12:54.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 06:12:56.0 | XRT_QT_PROG_SET_420_OG [0x1a4]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 02          |  |  |  |  |
| 2011/08/12 | 06:12:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 08          |  |  |  |  |
| 2011/08/12 | 06:13:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 06:29:30.0 | XRT_CTRL_MANU_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 06:29:32.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 06:29:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 06:32:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 07:02:30.0 | XRT_Custom_418_OG [0x1a2]          |   |       |                |  |  |  |  |
| 2011/08/12 | 07:03:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 07:59:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 08:00:00.0 | AOCS_Or-e-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2011/08/12 | 08:02:26.0 | XRT_FOCUS_POSITION_409_OG [0x199]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2011/08/12 | 08:02:46.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/08/12 | 08:02:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/08/12 | 08:02:50.0 | XRT_AEC_RESET_443_OG [0x1bb]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/08/12 | 08:02:52.0 | XRT_ARS_DIS_431_OG [0x1af]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/08/12 | 08:02:54.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 08:02:56.0 | XRT_QT_PROG_SET_404_OG [0x194]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 0b          |  |  |  |  |
| 2011/08/12 | 08:02:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 08          |  |  |  |  |
| 2011/08/12 | 08:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 08:09:30.0 | XRT_CTRL_MANU_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 08:09:32.0 | XRT_FLD_RESET_412_OG [0x19c]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 08:09:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |

Aug 11, 11 12:26

## XRT\_OGLIST\_0083.chk

Page 4/7

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2011/08/12 | 08:12:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 08:41:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 08:42:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 09:50:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 09:50:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 09:50:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 09:53:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 10:19:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 10:20:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 11:35:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 11:35:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 11:35:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 11:38:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 11:58:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 11:59:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 11:59:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 12:00:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 ea d1 b2 0d |  |  |  |  |
| 2011/08/12 | 12:02:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2011/08/12 | 12:02:46.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |  |
| 2011/08/12 | 12:02:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |  |
| 2011/08/12 | 12:02:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |  |
| 2011/08/12 | 12:02:52.0 | XRT_ARS_DIS_431_OG [0x1af]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2011/08/12 | 12:02:54.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 12:02:56.0 | XRT_QT_PROG_SET_404_OG [0x194]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0b          |  |  |  |  |
| 2011/08/12 | 12:02:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 08          |  |  |  |  |
| 2011/08/12 | 12:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 13:13:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 13:13:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 13:13:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 13:16:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 13:36:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 13:37:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 14:52:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 14:52:02.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 14:52:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 14:55:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 15:28:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 15:29:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 15:33:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 15:33:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 15:33:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 15:36:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 15:37:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |  |  |  |  |
| 2011/08/12 | 15:38:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2011/08/12 | 16:30:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 16:30:32.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2011/08/12 | 16:30:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2011/08/12 | 16:33:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2011/08/12 | 16:59:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2011/08/12 | 17:00:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |                |  |  |  |  |

Aug 11, 11 12:26

## XRT\_OGLIST\_0083.chk

Page 5/7

|            |            |                                   |                     |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|----|----|
| 2011/08/12 | 17:02:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | AOCU_NM             | 5 | 02-76 | 04 | 00 | 00 | 00 | 00 |
|            |            | XRT_FOCUS_POSITION                |                     | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2011/08/12 | 17:02:46.0 | XRT_FLD_ENA_447_OG [0x1bf]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 |    | d8 |    |    |    |
| 2011/08/12 | 17:02:48.0 | XRT_FLRCTRL_ENA_444_OG [0x1bc]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 |    | c8 |    |    |    |
| 2011/08/12 | 17:02:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 |    | d0 |    |    |    |
| 2011/08/12 | 17:02:52.0 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |    |    |
| 2011/08/12 | 17:02:54.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/08/12 | 17:02:56.0 | XRT_QT_PROG_SET_403_OG [0x193]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 03 |    |    |
| 2011/08/12 | 17:02:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 |    | c5 | 08 |    |    |
| 2011/08/12 | 17:14:00.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |    |    |    |    |    |
| 2011/08/12 | 17:15:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/08/12 | 17:58:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/08/12 | 17:58:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2011/08/12 | 17:59:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2011/08/12 | 17:59:16.0 | XRT_FLD_DIS_402_OG [0x192]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 |    | d9 |    |    |    |
| 2011/08/12 | 17:59:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 |    | c9 |    |    |    |
| 2011/08/12 | 17:59:20.0 | XRT_ARS_DIS_438_OG [0x1b6]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |    |    |
| 2011/08/12 | 18:01:58.0 | XRT_QT_PROG_SET_448_OG [0x1c0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 12 |    |    |
| 2011/08/12 | 18:02:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/08/12 | 18:08:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/08/12 | 18:09:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | AOCU_NM             | 5 | 02-76 | 04 | 00 | 00 | 00 | 00 |
| 2011/08/12 | 18:09:00.5 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/08/12 | 18:09:02.5 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/08/12 | 18:09:04.5 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |    |    |
| 2011/08/12 | 18:11:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2011/08/12 | 18:11:46.0 | XRT_FLD_ENA_447_OG [0x1bf]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 |    | d8 |    |    |    |
| 2011/08/12 | 18:11:48.0 | XRT_FLRCTRL_ENA_444_OG [0x1bc]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 |    | c8 |    |    |    |
| 2011/08/12 | 18:11:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 |    | d0 |    |    |    |
| 2011/08/12 | 18:11:52.0 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |    |    |
| 2011/08/12 | 18:11:54.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/08/12 | 18:11:56.0 | XRT_QT_PROG_SET_403_OG [0x193]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 03 |    |    |
| 2011/08/12 | 18:11:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 |    | c5 | 08 |    |    |
| 2011/08/12 | 18:12:14.5 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |    |    |
| 2011/08/12 | 18:51:00.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |    |    |    |    |    |
| 2011/08/12 | 18:52:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/08/12 | 19:47:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/08/12 | 19:47:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 |    | da |    |    |    |
| 2011/08/12 | 19:47:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 |    | e8 |    |    |    |
| 2011/08/12 | 19:50:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 |    | e9 |    |    |    |
| 2011/08/12 | 20:28:00.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |    |    |    |    |    |
| 2011/08/12 | 20:29:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 |    | c0 |    |    |    |
| 2011/08/12 | 20:59:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 |    | c1 |    |    |    |
| 2011/08/12 | 20:59:56.0 | XRT_FOCUS_POSITION_445_OG [0x1bd] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2011/08/12 | 21:00:00.0 | AOCS_Ore-point_Start_5_OG [0x09b] | AOCU_NM             | 5 | 02-76 | 00 | ac | 00 | 00 | 00 |
| 2011/08/12 | 21:00:16.0 | XRT_QT_PROG_SET_429_OG [0x1ad]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 |    | c4 | 0e |    |    |
| 2011/08/12 | 21:00:18.0 | XRT_FLD_DIS_423_OG [0x1a7]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 |    | d9 |    |    |    |
| 2011/08/12 | 21:00:20.0 | XRT_FLRCTRL_DIS_425_OG [0x1a9]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 |    | c9 |    |    |    |
| 2011/08/12 | 21:00:22.0 | XRT_ARS_DIS_437_OG [0x1b5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 |    | d5 |    |    |    |
| 2011/08/12 | 21:15:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |                     |   |       |    |    |    |    |    |

Aug 11, 11 12:26

## XRT\_OGLIST\_0083.chk

Page 6/7

|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2011/08/12 | 22:59:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/08/12 | 23:00:00.0 | AOCS_OrE-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 02 00 00 00 00 |
| 2011/08/12 | 23:02:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2011/08/12 | 23:02:46.0 | XRT_FLD_ENA_411_OG [0x19b]        | XRT_FLD_ENA         | 1 | 07-F0 | d8             |
| 2011/08/12 | 23:02:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2011/08/12 | 23:02:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2011/08/12 | 23:02:52.0 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2011/08/12 | 23:02:54.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/08/12 | 23:02:56.0 | XRT_QT_PROG_SET_404_OG [0x194]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |
| 2011/08/12 | 23:02:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08          |
| 2011/08/12 | 23:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/08/12 | 23:04:30.5 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/08/12 | 23:04:32.5 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/08/12 | 23:04:34.5 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2011/08/12 | 23:07:44.5 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2011/08/12 | 23:34:00.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |                |
| 2011/08/12 | 23:35:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/08/13 | 00:43:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/08/13 | 00:43:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/08/13 | 00:43:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2011/08/13 | 00:46:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2011/08/13 | 01:05:30.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |                |
| 2011/08/13 | 01:06:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/08/13 | 01:34:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/08/13 | 01:34:56.0 | XRT_FOCUS_POSITION_445_OG [0x1bd] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2011/08/13 | 01:35:00.0 | AOCS_OrE-point_Start_7_OG [0x09d] | AOCU_NM             | 5 | 02-76 | 00 00 00 54 00 |
| 2011/08/13 | 01:35:16.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 06          |
| 2011/08/13 | 01:35:18.0 | XRT_FLD_DIS_423_OG [0x1a7]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2011/08/13 | 01:35:20.0 | XRT_FLRCTRL_DIS_425_OG [0x1a9]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2011/08/13 | 01:35:22.0 | XRT_ARS_DIS_437_OG [0x1b5]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2011/08/13 | 01:50:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/08/13 | 03:34:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/08/13 | 03:35:00.0 | AOCS_OrE-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 02 00 00 00 00 |
| 2011/08/13 | 03:37:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2011/08/13 | 03:37:46.0 | XRT_FLD_ENA_411_OG [0x19b]        | XRT_FLD_ENA         | 1 | 07-F0 | d8             |
| 2011/08/13 | 03:37:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2011/08/13 | 03:37:50.5 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2011/08/13 | 03:37:52.5 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2011/08/13 | 03:37:54.5 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/08/13 | 03:37:56.5 | XRT_QT_PROG_SET_404_OG [0x194]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0b          |
| 2011/08/13 | 03:37:58.5 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08          |
| 2011/08/13 | 03:38:00.5 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2011/08/13 | 03:46:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2011/08/13 | 03:46:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2011/08/13 | 03:46:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2011/08/13 | 03:49:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2011/08/13 | 04:22:30.0 | XRT_Custom_418_OG [0x1a2]         |                     |   |       |                |
| 2011/08/13 | 04:23:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |                     |   |       |                |

Aug 11, 11 12:26

## XRT\_OGLIST\_0083.chk

Page 7/7

|            |            |                                   |                               |   |       |                |
|------------|------------|-----------------------------------|-------------------------------|---|-------|----------------|
| 2011/08/13 | 05:14:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |
| 2011/08/13 | 05:14:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |
| 2011/08/13 | 05:15:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION            | 4 | 07-F8 | 22 ff aa 00    |
| 2011/08/13 | 05:15:16.0 | XRT_FLD_DIS_402_OG [0x192]        | AOCU_NM                       | 5 | 02-76 | 00 00 00 00 00 |
| 2011/08/13 | 05:15:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1]    | MDP_XRT_FLD_DIS               | 1 | 07-F0 | d9             |
| 2011/08/13 | 05:15:20.0 | XRT_ARS_DIS_438_OG [0x1b6]        | MDP_XRT_FLRCTRL_DIS           | 1 | 07-F0 | c9             |
| 2011/08/13 | 05:17:58.0 | XRT_QT_PROG_SET_448_OG [0x1c0]    | MDP_XRT_ARS_DIS               | 1 | 07-F0 | d5             |
| 2011/08/13 | 05:18:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 12          |
| 2011/08/13 | 05:27:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |
| 2011/08/13 | 05:27:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |
| 2011/08/13 | 05:27:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |
| 2011/08/13 | 05:30:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |
| 2011/08/13 | 06:01:00.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |
| 2011/08/13 | 06:02:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_Custom_418_OG [0x1a2] | 1 | 07-F0 | c0             |
| 2011/08/13 | 07:07:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |
| 2011/08/13 | 07:07:32.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |
| 2011/08/13 | 07:07:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |
| 2011/08/13 | 07:10:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |
| 2011/08/13 | 07:39:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |
| 2011/08/13 | 07:40:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_Custom_418_OG [0x1a2] | 1 | 07-F0 | c0             |
| 2011/08/13 | 07:59:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |
| 2011/08/13 | 08:00:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |
| 2011/08/13 | 08:02:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | AOCU_NM                       | 5 | 02-76 | 03 00 00 00 00 |
| 2011/08/13 | 08:02:46.0 | XRT_FLD_ENA_411_OG [0x19b]        | XRT_FOCUS_POSITION            | 4 | 07-F8 | 22 fe 97 00    |
| 2011/08/13 | 08:02:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    | MDP_XRT_FLD_ENA               | 1 | 07-F0 | d8             |
| 2011/08/13 | 08:02:50.0 | XRT_AEC_RESET_443_OG [0x1bb]      | MDP_XRT_FLRCTRL_ENA           | 1 | 07-F0 | c8             |
| 2011/08/13 | 08:02:52.0 | XRT_ARS_DIS_431_OG [0x1af]        | MDP_XRT_AEC_RESET             | 1 | 07-F0 | d0             |
| 2011/08/13 | 08:02:54.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_ARS_DIS               | 1 | 07-F0 | d5             |
| 2011/08/13 | 08:02:56.0 | XRT_QT_PROG_SET_404_OG [0x194]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |
| 2011/08/13 | 08:02:58.0 | XRT_FL_PROG_SET_414_OG [0x19e]    | MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 0b          |
| 2011/08/13 | 08:03:00.5 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_FL_PROG_SET           | 2 | 07-F0 | c5 08          |
| 2011/08/13 | 08:47:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |
| 2011/08/13 | 08:47:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |
| 2011/08/13 | 08:47:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |
| 2011/08/13 | 08:50:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |
| 2011/08/13 | 09:17:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |
| 2011/08/13 | 09:18:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | MDP_XRT_Custom_418_OG [0x1a2] | 1 | 07-F0 | c0             |
| 2011/08/13 | 10:29:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO             | 1 | 07-F0 | c0             |
| 2011/08/13 | 10:29:02.0 | XRT_FLD_RESET_412_OG [0x19c]      | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |
| 2011/08/13 | 10:29:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6]    | MDP_XRT_FLD_RESET             | 1 | 07-F0 | da             |
| 2011/08/13 | 10:32:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8]    | MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |
| 2011/08/13 | 11:00:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |
| 2011/08/13 | 11:01:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | MDP_XRT_CTRL_MANU             | 1 | 07-F0 | c1             |
|            |            | AOCU_NM                           | MDP_XRT_CTRL_AUTO             | 5 | 02-76 | 00 00 00 00 00 |