

# XRT Timeline to be uploaded on 2013/04/11

Period: 2013/04/11 09:47:00 - 2013/04/16 09:36:00

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## Normal mode

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| XOB #196B: CME watch - 4x4 - AEC 2 - Ti/poly- 240s cad - 2x2 Gband - 1hr cad |                        |  |         |       |       |     |     |                        |       |            |          |        |
|--|------------------------|--|---------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)        |  | Comment |       |       |     |     |                        |       |            |          |        |
| 04/11 10:00:00 - 04/11 10:15:54  | Fixed ( 936.0, 0.0)    | # OP start + 10min, HOP 130, EIS full-disk scan. |         |       |       |     |     |                        |       |            |          |        |
| 04/11 10:19:00 - 04/11 10:31:54  | Fixed ( 468.0, 0.0)    |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 10:35:00 - 04/11 10:47:54  | Fixed ( 0.0, 0.0)      |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 10:51:00 - 04/11 11:13:00  | Fixed (-468.0, 0.0)    |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 11:23:30 - 04/11 11:36:24  | Fixed (-936.0, 0.0)    |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 11:39:30 - 04/11 11:46:24  | Fixed ( 815.0, 470.0)  |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 11:49:30 - 04/11 12:02:24  | Fixed ( 411.0, 847.0)  |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 12:05:30 - 04/11 12:18:24  | Fixed ( 0.0, 941.0)    |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 12:21:30 - 04/11 12:34:24  | Fixed (-411.0, 847.0)  |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 12:37:30 - 04/11 12:51:30  | Fixed (-815.0, 470.0)  |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 13:02:00 - 04/11 13:08:54  | Fixed ( 815.0, -470.0) |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 13:12:00 - 04/11 13:24:54  | Fixed ( 411.0, -847.0) |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 13:28:00 - 04/11 13:40:54  | Fixed ( 0.0, -941.0)   |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 13:44:00 - 04/11 13:56:54  | Fixed (-411.0, -847.0) |  |         |       |       |     |     |                        |       |            |          |        |
| 04/11 14:00:00 - 04/11 14:09:54  | Fixed (-815.0, -471.0) | * HOP 130, final pointing.                       |         |       |       |     |     |                        |       |            |          |        |
| <b>PROG= 17 Inf.-time(s)</b>   |                        |  |         |       |       |     |     |                        |       |            |          |        |
| └─ Subr= 1 1-time(s) 240.0sec  |                        |  |         |       |       |     |     |                        |       |            |          |        |
| └─ Seqn= 47 1-time(s) 4.0sec   |                        |  |         |       |       |     |     |                        |       |            |          |        |
| Open/Ti-poly   | Open/thick-Al          | close  | Safe    | Norm  | 125ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 2          | 0        | 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec  |                        |  |         |       |       |     |     |                        |       |            |          |        |
| └─ Seqn= 14 1-time(s) 2.0sec   |                        |  |         |       |       |     |     |                        |       |            |          |        |
| Open/G-band  | Open/G-band            | open   | Safe    | Norm  | 8ms   | 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 #195F: AR Standard-B(Morphology) with PFB, thin-Be + multifilter context, 384x384 at 1064 1048, 60s-cad, shorter G-band (32ms) w/ G-Band VLS Clo |                       |  |         |       |       |     |     |                      |       |            |          |         |
|--|-----------------------|--|---------|-------|-------|-----|-----|----------------------|-------|------------|----------|---------|
| Term   | Pointing (x, y)       |  | Comment |       |       |     |     |                      |       |            |          |         |
| 04/11 14:13:00 - 04/11 17:36:24  | Track ( -97.8, 231.6) | * Track AR 11719, EIS returning-AR study.    |         |       |       |     |     |                      |       |            |          |         |
| 04/11 17:56:00 - 04/12 05:55:24  | Track ( 412.9, 414.7) | # HOP 180, EIT waves, AR 11718               |         |       |       |     |     |                      |       |            |          |         |
| 04/12 06:08:30 - 04/12 09:44:54  | Track ( 503.2, 408.6) | # AR 11718.                                  |         |       |       |     |     |                      |       |            |          |         |
| 04/12 09:48:00 - 04/12 17:59:54  | Track ( 528.7, 406.6) | * Possible pointing adjustment for AR 11718. |         |       |       |     |     |                      |       |            |          |         |
| 04/12 18:13:00 - 04/13 06:13:24  | Track ( 585.0, 401.7) | # Cont.                                      |         |       |       |     |     |                      |       |            |          |         |
| 04/13 06:26:30 - 04/13 07:17:30  | Track ( 659.8, 393.8) | # Cont.                                      |         |       |       |     |     |                      |       |            |          |         |
| <b>PROG= 16 Inf.-time(s)</b>   |                       |  |         |       |       |     |     |                      |       |            |          |         |
| └─ Subr= 1 1-time(s) 2.0sec  |                       |  |         |       |       |     |     |                      |       |            |          |         |
| └─ Seqn= 24 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  | 32ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec  |
| └─ Seqn= 28 1-time(s) 2.0sec   |                       |  |         |       |       |     |     |                      |       |            |          |         |
| Open/G-band  | Open/G-band           | close  | Safe    | Norm  | 63ms  | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec  |
| └─ Seqn= 31 4-time(s) 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-Al         | close  | Safe    | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| Al-poly/Open   | Al-poly/thick-Be      | close  | Safe    | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| C-poly/Open  | C-poly/thick-Al       | close  | Safe    | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| thin-Be/Open   | med-Be/Open           | close  | Safe    | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| med-Be/Open  | med-Be/Open           | close  | Safe    | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| med-Al/Open  | med-Al/thick-Al       | close  | Safe    | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec  |
| └─ Subr= 2 1-time(s) 2.0sec  |                       |  |         |       |       |     |     |                      |       |            |          |         |
| └─ Seqn= 29 70-time(s) 2.0sec  |                       |  |         |       |       |     |     |                      |       |            |          |         |
| thin-Be/Open   | med-Be/Open           | close  | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 15.0sec |
| thin-Be/Open   | med-Be/Open           | close  | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 15.0sec |
| thin-Be/Open   | med-Be/Open           | close  | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 15.0sec |
| thin-Be/Open   | med-Be/Open           | close  | Safe    | Norm  | 1.41s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 15.0sec |
| Default Filter   | Thicker Filter        | VLS  | mode    | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

| XOB #196B: Synoptic Q95 2x2 - Al/mesh(44/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(88/2048) + Thin-Be(25 |                   |                             |         |      |       |     |     |                        |      |   |   |        |
|---|-------------------|-----------------------------|---------|------|-------|-----|-----|------------------------|------|---|---|--------|
| Term  | Pointing (x, y)   |                             | Comment |      |       |     |     |                        |      |   |   |        |
| 04/11 17:39:30 - 04/11 17:46:24   | Fixed ( 0.0, 0.0) | synoptic, shifted -23.5 min |         |      |       |     |     |                        |      |   |   |        |
| 04/12 05:58:30 - 04/12 06:05:24   | Fixed ( 0.0, 0.0) | synoptic, shifted -4.5 min  |         |      |       |     |     |                        |      |   |   |        |
| 04/12 18:03:00 - 04/12 18:09:54   | Fixed ( 0.0, 0.0) | synoptic                    |         |      |       |     |     |                        |      |   |   |        |
| 04/13 06:16:30 - 04/13 06:23:24   | Fixed ( 0.0, 0.0) | synoptic, shifted 13.5 min. |         |      |       |     |     |                        |      |   |   |        |
| <b>PROG= 08 1-time(s)</b>   |                   |                             |         |      |       |     |     |                        |      |   |   |        |
| └─ Subr= 1 1-time(s) 14.0sec  |                   |                             |         |      |       |     |     |                        |      |   |   |        |
| └─ Seqn= 16 1-time(s) 4.0sec  |                   |                             |         |      |       |     |     |                        |      |   |   |        |
| Open/Al-mesh  | Open/Al-mesh      | close                       | Safe    | Norm | 44ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| Open/Al-mesh  | Open/Al-mesh      | close                       | Safe    | Norm | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| └─ Seqn= 5 1-time(s) 2.0sec   |                   |                             |         |      |       |     |     |                        |      |   |   |        |
| Open/Ti-poly  | Open/thick-Al     | close                       | Safe    | Dark | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly  | Open/thick-Al     | close                       | Safe    | Dark | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly  | Open/thick-Al     | close                       | Safe    | Dark | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |

|                 |                |                  |      |               |       |     |     |                        |       |            |          |        |
|-----------------|----------------|------------------|------|---------------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Open/Ti-poly    | Open/thick-Al  | close            | Safe | Dark          | 500ms | Obs | 1x1 | 2048x512 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/thick-Al  | close            | Safe | Dark          | 500ms | Obs | 1x1 | 512x2048 (1024, 1024)  | DPCM  | 0          | 0        | 2.0sec |
| <b>Seqn= 26</b> |                | <b>1-time(s)</b> |      | <b>4.0sec</b> |       |     |     |                        |       |            |          |        |
| Open/Ti-poly    | Open/Ti-poly   | close            | Safe | Norm          | 86ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/Ti-poly   | close            | Safe | Norm          | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 19</b> |                | <b>1-time(s)</b> |      | <b>2.0sec</b> |       |     |     |                        |       |            |          |        |
| thin-Be/Open    | thin-Be/Open   | close            | Safe | Norm          | 250ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| thin-Be/Open    | thin-Be/Open   | close            | Safe | Norm          | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 14</b> |                | <b>1-time(s)</b> |      | <b>2.0sec</b> |       |     |     |                        |       |            |          |        |
| Open/G-band     | Open/G-band    | open             | Safe | Norm          | 8ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Subr= 2</b>  |                | <b>1-time(s)</b> |      | <b>2.0sec</b> |       |     |     |                        |       |            |          |        |
| <b>Seqn= 12</b> |                | <b>1-time(s)</b> |      | <b>2.0sec</b> |       |     |     |                        |       |            |          |        |
| Open/G-band     | Open/G-band    | close            | Safe | Norm          | 32ms  | Obs | 1x1 | 2048x2048 (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| Default Filter  | Thicker Filter | VLS              | mode | image         | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

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### Flare mode

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### XOB #1980: Flare obs. dynamics - thin-Be high cadence + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2)-Gband (45ms)-15 loops-2

| Term                            | Pointing (x, y)                        | Comment  |
|---------------------------------|--|--|
| 04/11 10:00:00 - 04/11 10:15:54 | Fixed ( 936.0, 0.0)                    | # OP start + 10min, HOP 130, EIS full-disk scan. |
| 04/11 10:19:00 - 04/11 10:31:54 | Fixed ( 468.0, 0.0)                    |  |
| 04/11 10:35:00 - 04/11 10:47:54 | Fixed ( 0.0, 0.0)                      |  |
| 04/11 10:51:00 - 04/11 11:13:00 | Fixed ( -468.0, 0.0)                   |  |
| 04/11 11:23:30 - 04/11 11:36:24 | Fixed ( -936.0, 0.0)                   |  |
| 04/11 11:39:30 - 04/11 11:46:24 | Fixed ( 815.0, 470.0)                  |  |
| 04/11 11:49:30 - 04/11 12:02:24 | Fixed ( 411.0, 847.0)                  |  |
| 04/11 12:05:30 - 04/11 12:18:24 | Fixed ( 0.0, 941.0)                    |  |
| 04/11 12:21:30 - 04/11 12:34:24 | Fixed ( -411.0, 847.0)                 |  |
| 04/11 12:37:30 - 04/11 12:51:30 | Fixed ( -815.0, 470.0)                 |  |
| 04/11 13:02:00 - 04/11 13:08:54 | Fixed ( 815.0, -470.0)                 |  |
| 04/11 13:12:00 - 04/11 13:24:54 | Fixed ( 411.0, -847.0)                 |  |
| 04/11 13:28:00 - 04/11 13:40:54 | Fixed ( 0.0, -941.0)                   |  |
| 04/11 13:44:00 - 04/11 13:56:54 | Fixed ( -411.0, -847.0)                |  |
| 04/11 14:00:00 - 04/11 14:09:54 | Fixed ( -815.0, -471.0)                | * HOP 130, final pointing.                       |
| 04/11 14:13:00 - 04/11 17:36:24 | Track ( -97.8, 231.6) @ 04/11 14:10:00 | * Track AR 11719, EIS returning-AR study.        |
| 04/11 17:56:00 - 04/12 05:55:24 | Track ( 412.9, 414.7) @ 04/11 17:46:30 | # HOP 180, EIT waves, AR 11718                   |
| 04/12 06:08:30 - 04/12 09:44:54 | Track ( 503.2, 408.6) @ 04/12 06:05:30 | # AR 11718.                                      |
| 04/12 09:48:00 - 04/12 17:59:54 | Track ( 528.7, 406.6) @ 04/12 09:45:00 | * Possible pointing adjustment for AR 11718.     |
| 04/12 18:13:00 - 04/13 06:13:24 | Track ( 585.0, 401.7) @ 04/12 18:10:00 | # Cont.  |
| 04/13 06:26:30 - 04/13 07:17:30 | Track ( 659.8, 393.8) @ 04/13 06:23:30 | # Cont.  |

### PROG= 05 15-time(s)

|                 |                  |                   |      |                |       |     |     |                      |       |            |          |        |
|-----------------|------------------|-------------------|------|----------------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 1</b>  |                  | <b>45-time(s)</b> |      | <b>10.0sec</b> |       |     |     |                      |       |            |          |        |
| <b>Seqn= 9</b>  |                  | <b>1-time(s)</b>  |      | <b>2.0sec</b>  |       |     |     |                      |       |            |          |        |
| thin-Be/Open    | med-Be/Open      | close             | Safe | Norm           | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |
| <b>Subr= 2</b>  |                  | <b>1-time(s)</b>  |      | <b>10.0sec</b> |       |     |     |                      |       |            |          |        |
| <b>Seqn= 10</b> |                  | <b>1-time(s)</b>  |      | <b>2.0sec</b>  |       |     |     |                      |       |            |          |        |
| med-Al/Open     | med-Al/thick-Al  | close             | Safe | Norm           | 500ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |
| Open/thick-Be   | Open/thick-Be    | close             | Safe | Norm           | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |
| <b>Seqn= 11</b> |                  | <b>1-time(s)</b>  |      | <b>2.0sec</b>  |       |     |     |                      |       |            |          |        |
| Al-poly/Open    | Al-poly/thick-Al | close             | Safe | Norm           | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |
| <b>Seqn= 15</b> |                  | <b>1-time(s)</b>  |      | <b>2.0sec</b>  |       |     |     |                      |       |            |          |        |
| Open/G-band     | Open/G-band      | open              | Safe | Norm           | 44ms  | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-Al   | Open/thick-Al    | close             | Safe | Dark           | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-Al   | Open/thick-Al    | close             | Safe | Dark           | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Default Filter  | Thicker Filter   | VLS               | mode | image          | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

\* \* \* \* \*

### Active Region Search

\* \* \* \* \*

NOT USED

\* \* \* \* \*

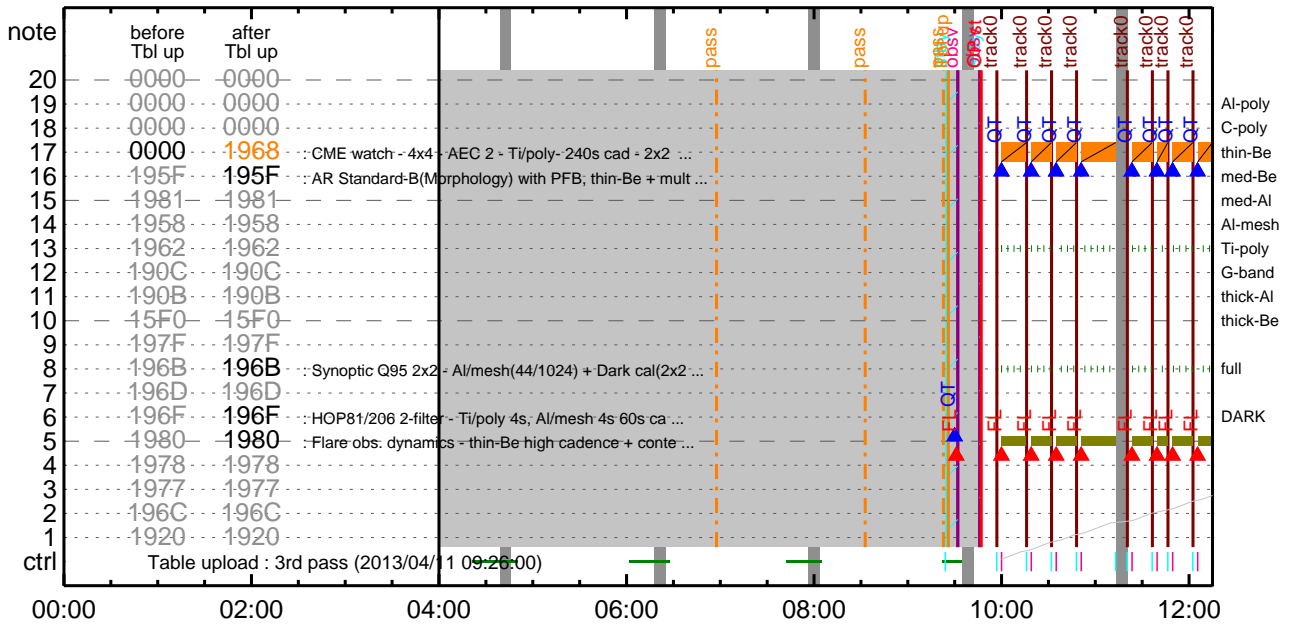
### Flare Detection

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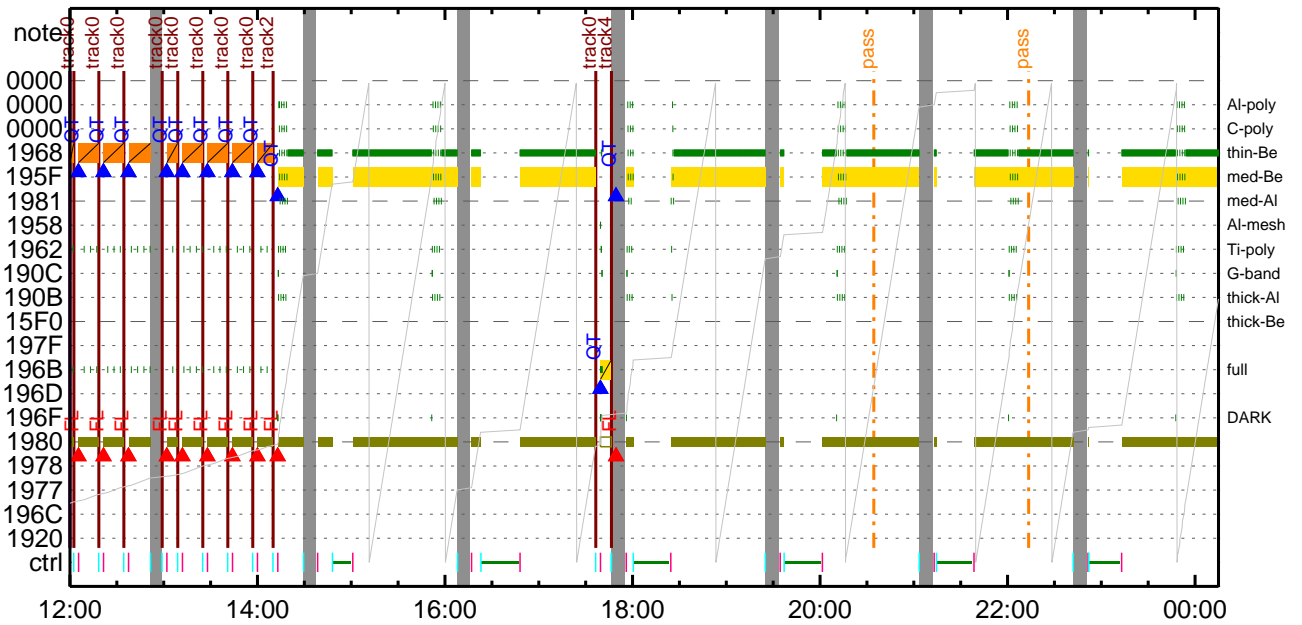
### FLD Patrol

| Term                            | Pointing (x, y)                        | Comment                        |      |       |      |     |     |                    |       |            |          |
|---------------------------------|--|--------------------------------|------|-------|------|-----|-----|--------------------|-------|------------|----------|
| 04/11 17:46:46 - 04/12 05:55:46 | Track ( 412.9, 414.7) @ 04/11 17:46:30 | # HOP 180, EIT waves, AR 11718 |      |       |      |     |     |                    |       |            |          |
| 04/12 06:05:46 - 04/12 18:00:16 | Track ( 503.2, 408.6) @ 04/12 06:05:30 | # AR 11718.                    |      |       |      |     |     |                    |       |            |          |
| 04/12 18:10:16 - 04/13 06:13:46 | Track ( 585.0, 401.7) @ 04/12 18:10:00 | # Cont.                        |      |       |      |     |     |                    |       |            |          |
| 04/13 06:23:46 - 04/16 09:36:00 | Track ( 659.8, 393.8) @ 04/13 06:23:30 | # Cont.                        |      |       |      |     |     |                    |       |            |          |
| Open/Ti-poly                    | Open/thick-Al                          | close                          | Safe | Norm  | 8ms  | Obs | 8x8 | Q=50               | 30sec |            |          |
| Default Filter                  | Thicker Filter                         | VLS                            | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

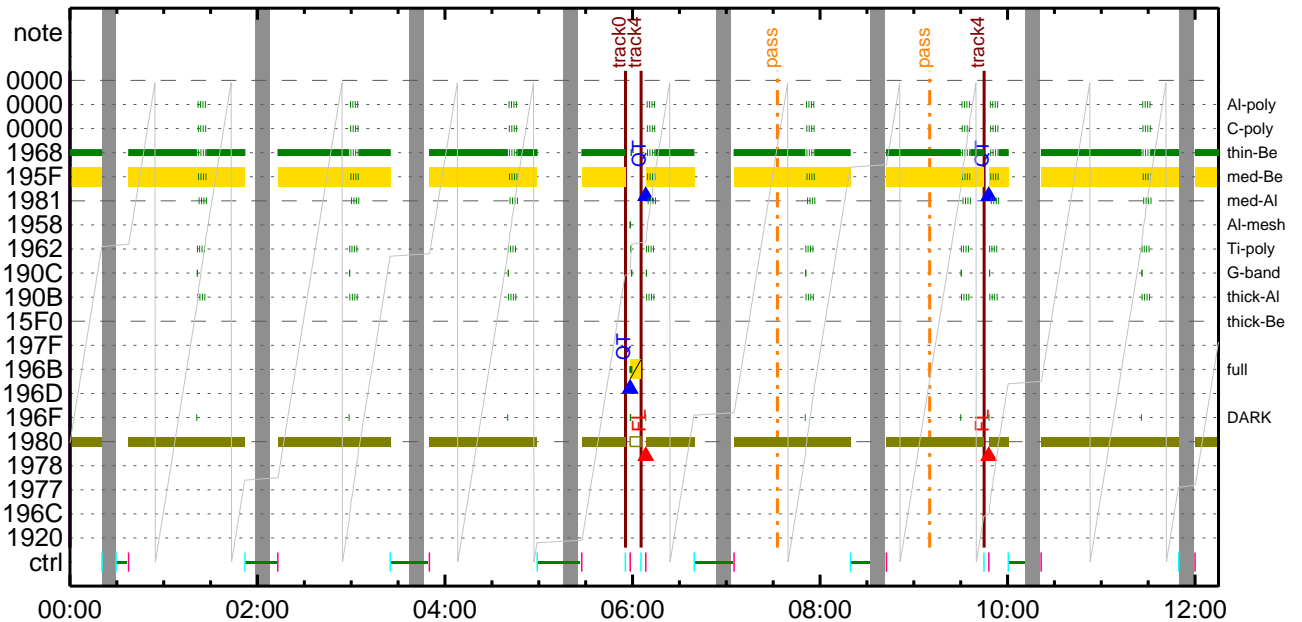
### CMDI #0393 2013/04/11



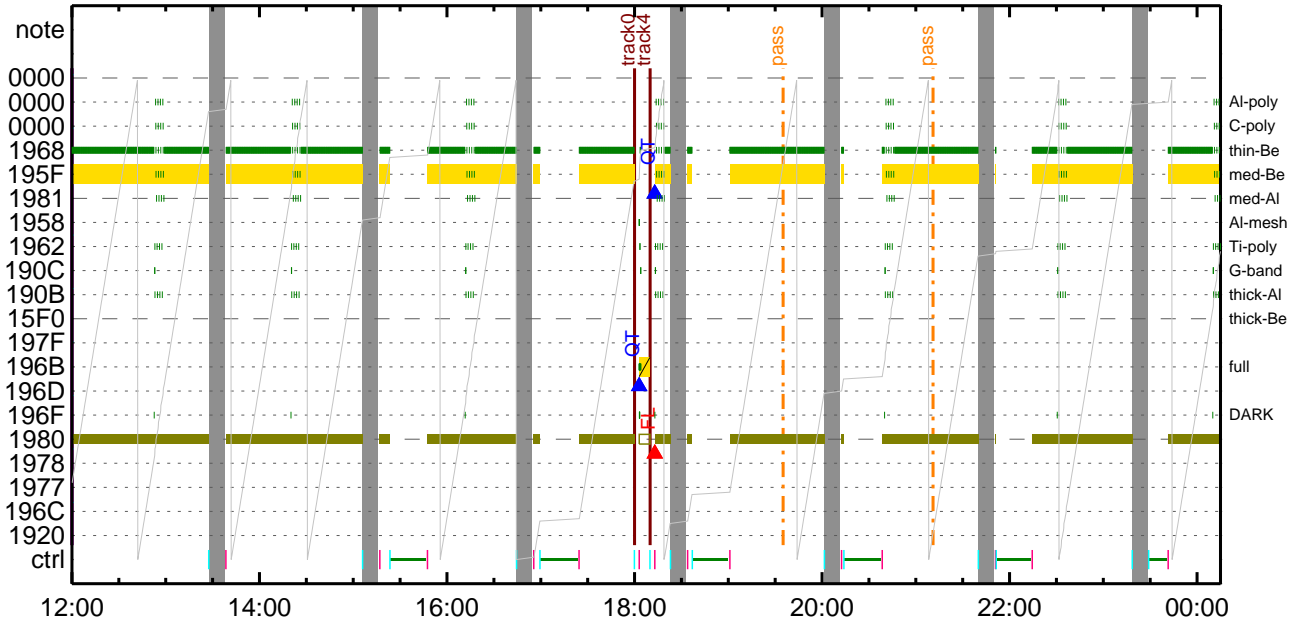
### CMDI #0393 2013/04/11



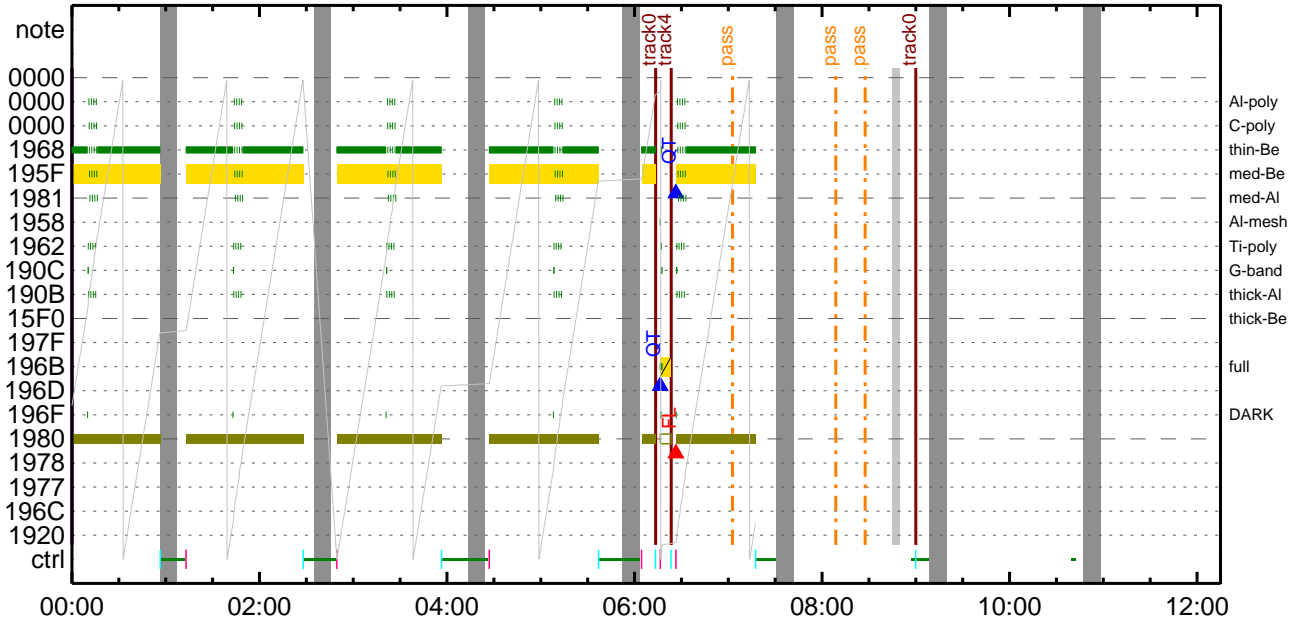
### CMDI #0393 2013/04/12



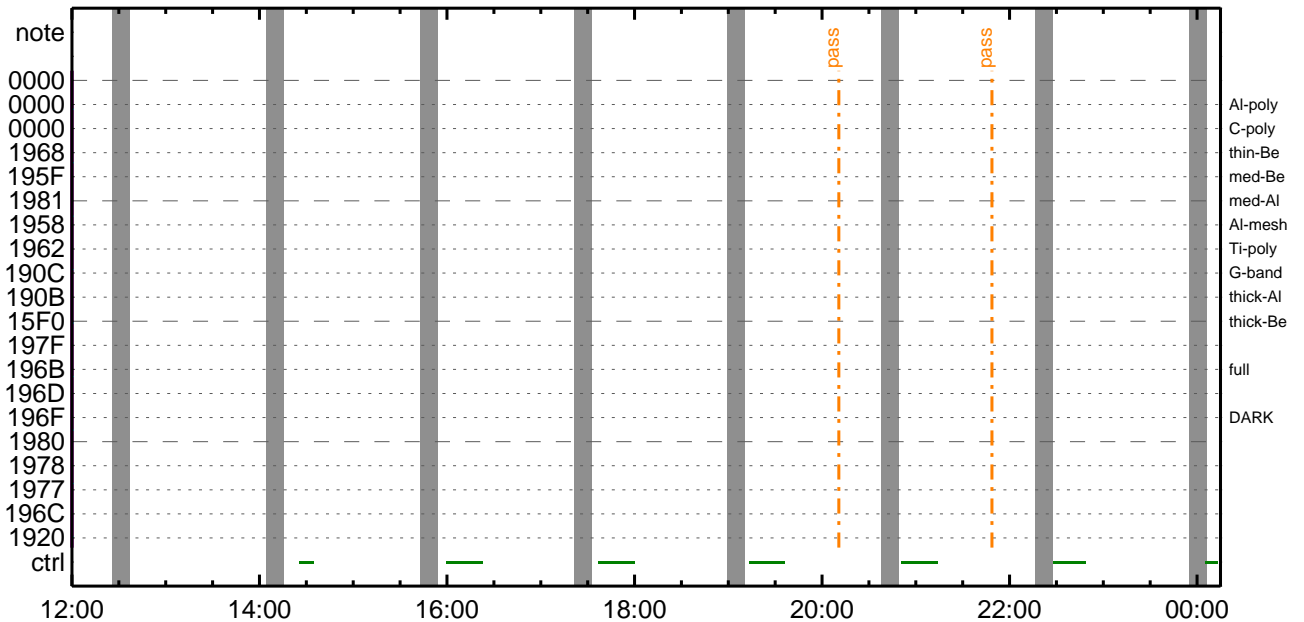
### CMDI #0393 2013/04/12



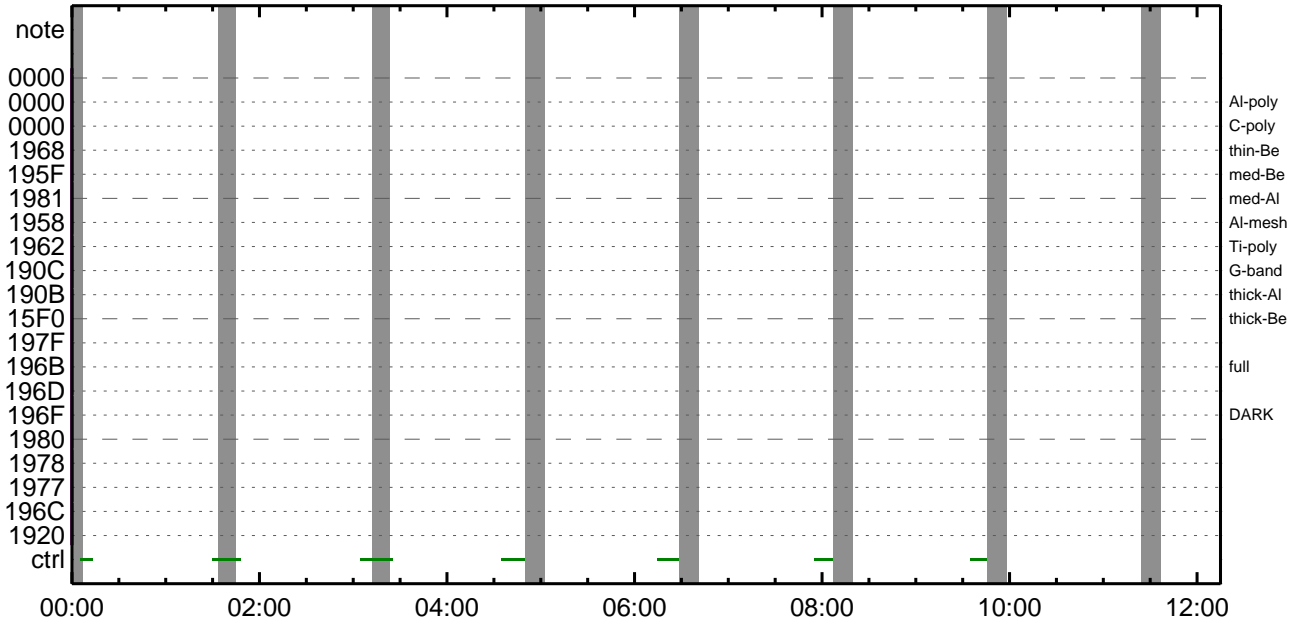
### CMDI #0393 2013/04/13



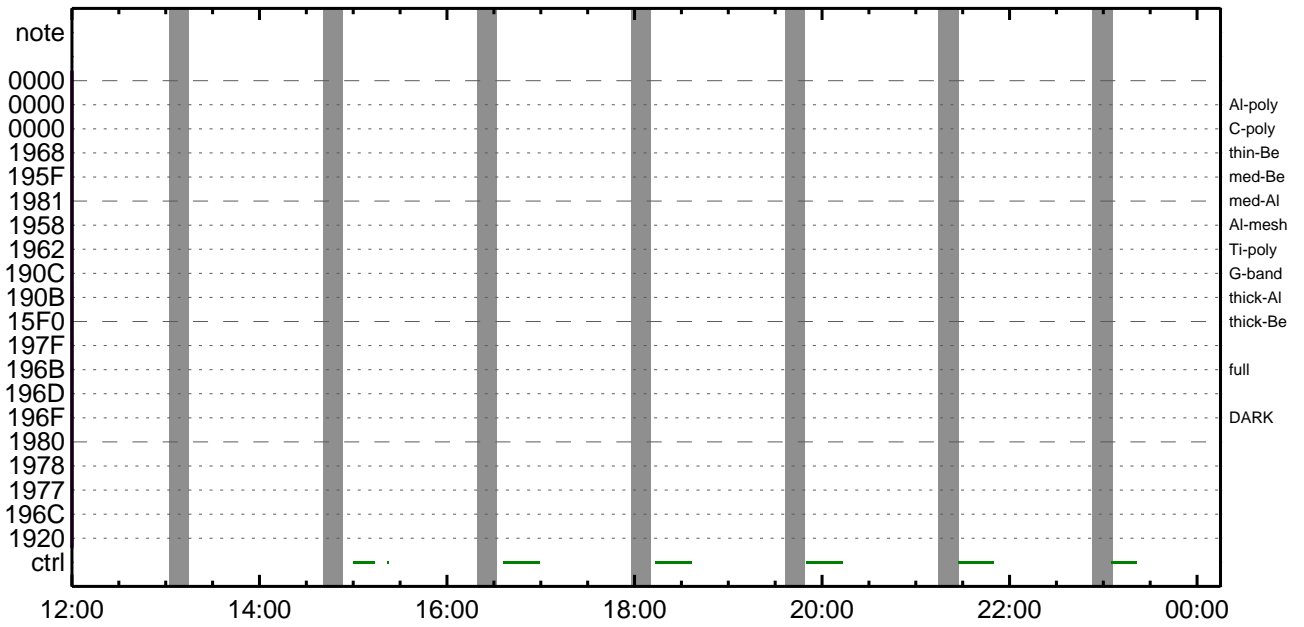
### CMDI #0393 2013/04/13



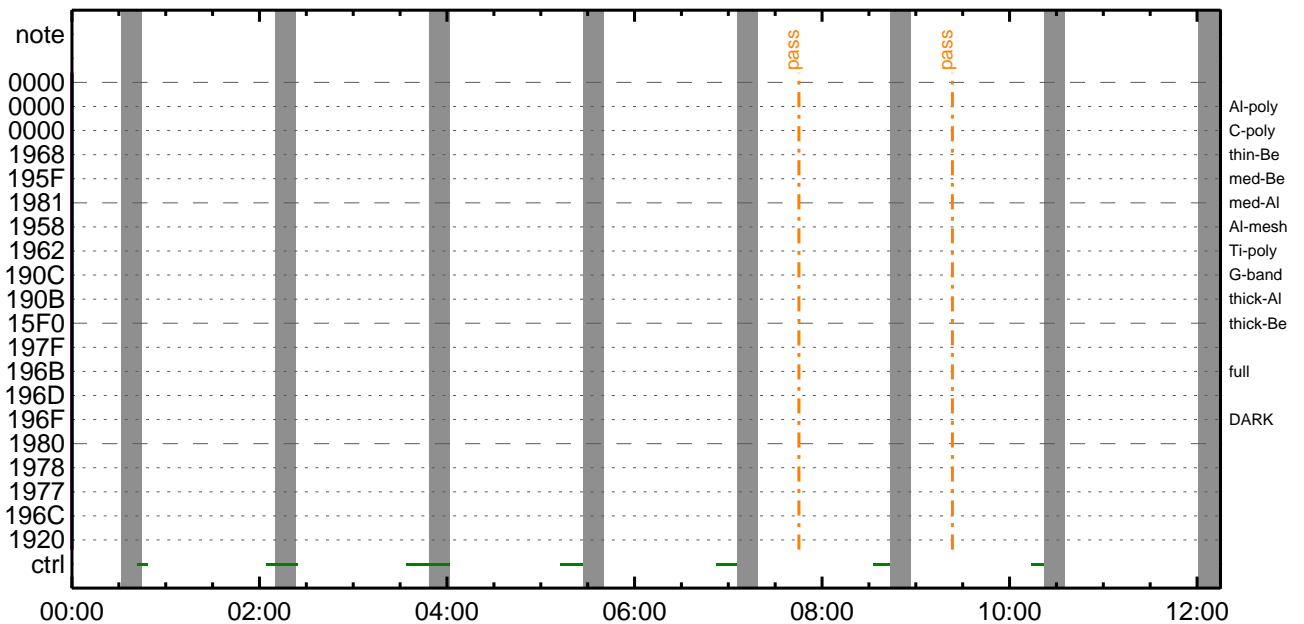
CMDI #0393 2013/04/14



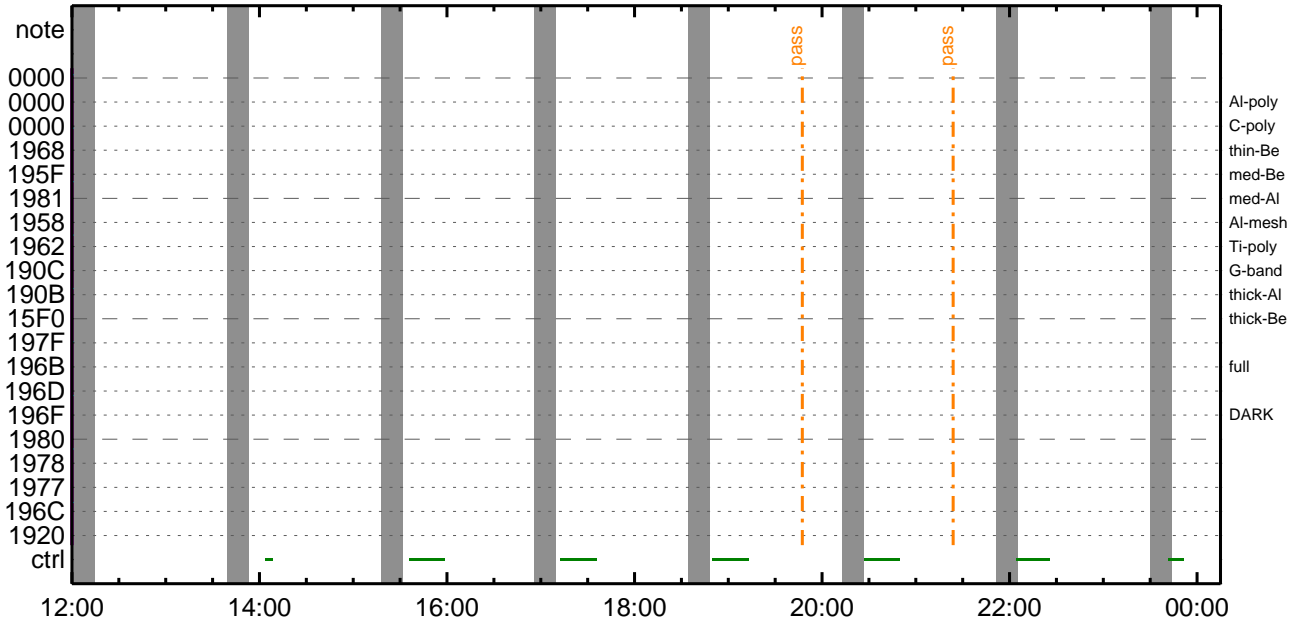
CMDI #0393 2013/04/14



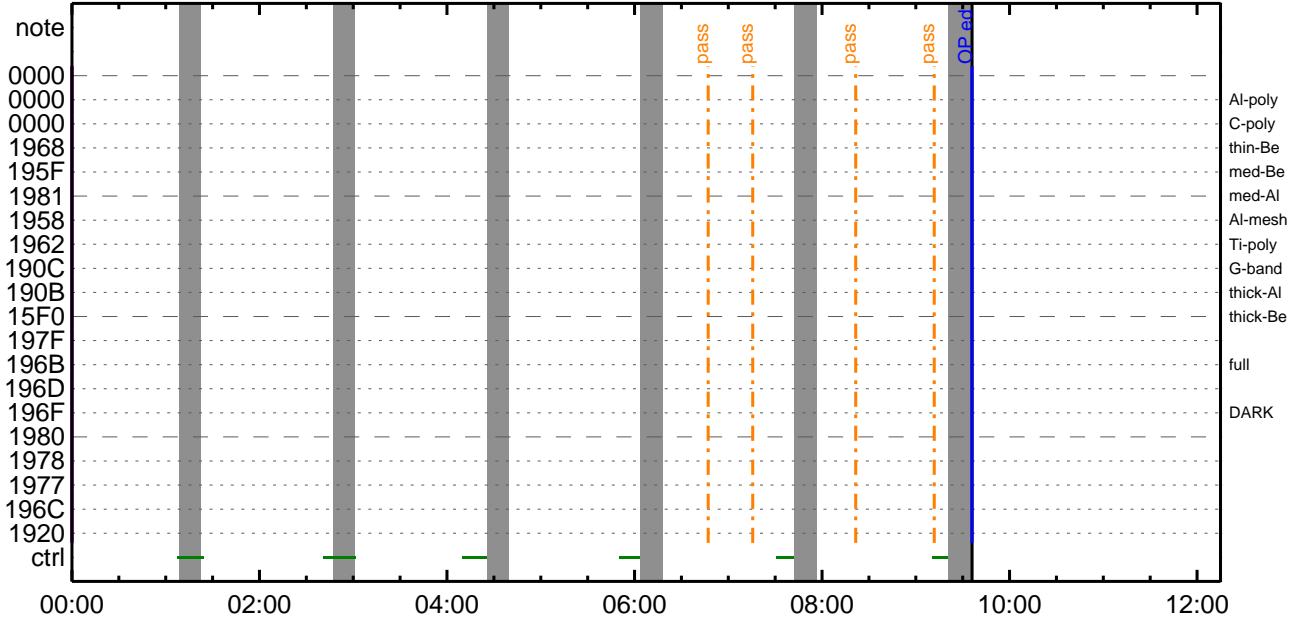
CMDI #0393 2013/04/15



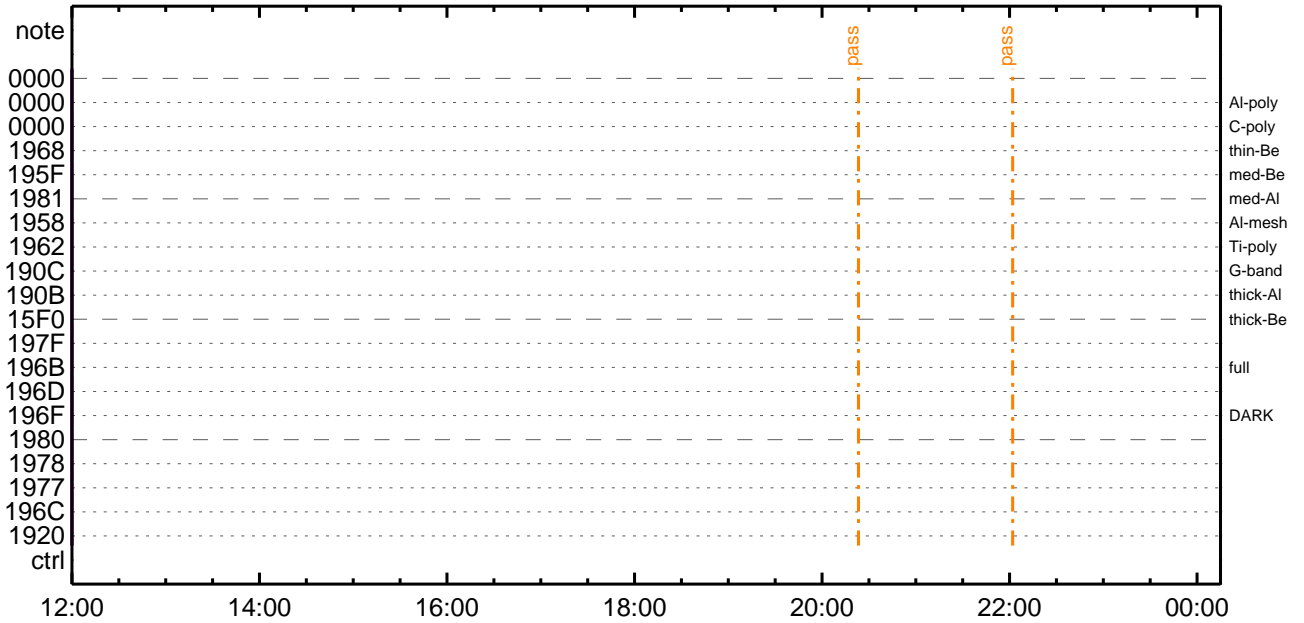
### CMDI #0393 2013/04/15



### CMDI #0393 2013/04/16



### CMDI #0393 2013/04/16





```
0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YA6Yx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-579:OP
0104 ( )
0105 S. OG og-579:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYA6Yx;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YA6Yx½ªî»ò³îç§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î½ê¹ç.ë²îOKò³îç§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YA6Yx½ªî»ò³îç§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î½ê¹ç.ë²îOKò³îç§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YA6Yx½ªî»ò³îç§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î½ê¹ç.ë²îOKò³îç§
0165 C.
0166 C. ***** °ê²¼òî½Ã´¶Á°èÈ-ò°Ã÷¿@ (¼åµ-YA6Yx½ê¹ç.ë²îOKò³îç§ª²ª°²ê¼î¹çòç²ª) *****
0167 C. DHUªâ;¼YE;ê½Y½, Yî;¼YE;èòîã²¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOAD²-Ã÷¿@NG²î½ê¹ç;ç°è²¼òî½TI-CMDª÷¿@²î½ê¹ç²ª°²ê¼î¹çòç²ª;f
0180 C. çç[HK1_PKT_FORM_NO] EQ 2
0181 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0182 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0183 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0184 +. TI 2013-04-11 09:42:00.0
0185 DC 01-B3 DHU_OP_STOP
0186 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0187 C.
0188 +. TI 2013-04-11 09:42:01.0
0189 DC 01-B4 DHU_OP_COPY
0190 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0191 C.
0192 +. TI 2013-04-11 09:42:01.0
0193 DC 01-B5 DHU_OPOG_COPY
0194 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
```







```

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 AOCS_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE STATUS] 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 AOCS_DUMP 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 AOCS_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 45s
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 2013-04-11 09:46:50.0
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 'úÃîî'»ö¼ÝñÊÄðñ¹ñèDCBC•x²è *****
0153 C. (%ã°ï¥Ó¥Á¥È¥Þ¥Ï¥Á¥¼¥È¥¼¥ñ¥¼¥Á»Üñ¹ñè)
0154 . S. DC-BC dcbc-402:DCBC
0155 (MDP_known_event)
0156 C.
0157 C.
0158 . C. ***** ¥Ð¥¹•ï Daily±¿íññÉ'Øñ¹ñèDCBC•x²è *****
0159 . S. DC-BC dcbc-153:DCBC
0160 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161 C.
0162 C.
0163 . C. ;ãLOS¥Á¥§¥Á¥¼¥Á»Ü;ã
0164 C.
0165 . C. ***** LOS *****
0166 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-581 2013-04-11 14:06:04 148 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èα¿αÁα•μ°È»Í×ÁÇαÍYçYÁY×Yí;¼YÉ;ÈÈèμ•ííÉ;ÈαÈ¼°ÇÓα•α¿¼í¹çαÍ;çÁ®, ùα¹αèαBαÇÁ+¿®α•αÈααα³αÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG ____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 05 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 06 85 83 08 08)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 07 85 83 06 06)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 08 80 80 20 20)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 09 80 80 20 08)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0a 80 80 08 20)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0f 80 80 06 06)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 10 80 80 08 08)
0056 + DC 07-F0 MDP_XRT_FLD_ENA
0057 BC (d8)
0058 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0059 BC (c8)
0060 + DC 07-F0 MDP_XRT_AEC_RESET
0061 BC (d0)
0062 + DC 07-F0 MDP_XRT_ARS_DIS
0063 BC (d5)
0064 + DC 07-F0 MDP_XRT_FLD_RESET
0065 BC (da)
0066 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0067 BC (c4 06)
0068 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0069 BC (c5 05)
0070 . C. ----- Success Verify ? OK / NG ____
0071 C.
0072 C.
0073 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0074 C.
0075 +. DC 07-F0 MDP_XRT_MODE_OBSV
0076 BC (c2)
0077 +. TI 2013-04-11 09:46:02.0
0078 DC 07-F0 MDP_XRT_MODE_OBSV
0079 BC (c2)
0080 . C. ----- Success Verify ? OK / NG ____
0081 C.
0082 C. ***** XRT END *****
0083 . C. *****
0084 C. SOT table upload
0085 C. *****
0086 . C. < Stop FG table >
0087 +. DC 07-F0 MDP_FG_CTRL_MANU
0088 BC (51)
0089 . C. -----
0090 C. MDP_FG_CTRL_MODE = MANU [ ]
0091 C. -----
0092 C.
0093 . C. <Upload FG Observation Table>
0094 . S. RAM ram-268:MDP_OBS_F
0095 ( )
```

```

0096 C.
0097 . C. < Dump RAMID=MDP_OBS_F >
0098 +. DC 07-F0 MDP_DUMP_FGTBL
0099 BC (82 07 00 00 00 38 b8)
0100 C. -----
0101 C. MDP_OBS_F verify = OK/NG [ ]
0102 C. -----
0103 C.
0104 . C. < Stop SP table >
0105 +. DC 07-F0 MDP_SP_CTRL_MANU
0106 BC (61)
0107 C. -----
0108 C. MDP_SP_CTRL_MODE = MANU [ ]
0109 C. -----
0110 C.
0111 . C. <Upload SP Observation Table>
0112 . S. RAM ram-288:MDP_OBS_S
0113 ( )
0114 C.
0115 . C. < Dump RAMID=MDP_OBS_S >
0116 +. DC 07-F0 MDP_DUMP_SPTBL
0117 BC (83 07 00 00 00 38 b8)
0118 C. -----
0119 C. MDP_OBS_S verify = OK/NG [ ]
0120 C. -----
0121 C.
0122 C. *****
0123 C. SOT TI command set
0124 C. *****
0125 C. Execute, after the success of TBL upload.
0126 +. TI 2013-04-11 09:46:18.0
0127 DC 07-F0 MDP_SOT_MODE_OBSV
0128 BC (40)
0129 . C. -----
0130 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0131 C. -----
0132 C.
0133 C.
0134 . C. ***** MDP `uÃîï»ö¼ýöËÄð¹ªëDCBC•×²è *****
0135 C. (¼á°ïÿÓÿÄÿÉÿËÿËÿáÿÿèª¼ª¼Ä»Û¹ªè)
0136 . S. DC-BC dcbc-402:DCBC
0137 (MDP_known_event)
0138 C.
0139 C.
0140 . C. ***** ¥ÐŸ¹•ï Daily±¿îÑªË´øª¹ªèDCBC•×²è *****
0141 . S. DC-BC dcbc-153:DCBC
0142 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0143 C.
0144 C.
0145 . C. ;ãLO$ÁŸ$ŸÄŸ¹¼Ä»Û;ã
0146 C.
0147 . C. ***** LOS *****
0148 C.

```

Apr 11, 13 14:06

XRT\_OGLIST\_0393.chk

Page 1/11

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

|            |            |                                   |   |       |                |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|
| 2013/04/11 | 09:56:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2013/04/11 | 09:56:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2013/04/11 | 09:57:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 ac cd |  |  |  |
| 2013/04/11 | 09:57:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |
| 2013/04/11 | 09:57:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |
| 2013/04/11 | 09:57:20.0 | XRT_AEC_RESET_413_OG [0x19d]      |   |       |                |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |
| 2013/04/11 | 09:57:22.0 | XRT_ARS_DIS_414_OG [0x19e]        |   |       |                |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |
| 2013/04/11 | 09:59:54.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2013/04/11 | 09:59:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |
| 2013/04/11 | 09:59:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 05          |  |  |  |
| 2013/04/11 | 10:00:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |
| 2013/04/11 | 10:15:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2013/04/11 | 10:15:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2013/04/11 | 10:16:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 d6 67 |  |  |  |
| 2013/04/11 | 10:16:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |
| 2013/04/11 | 10:16:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |
| 2013/04/11 | 10:16:20.0 | XRT_AEC_RESET_413_OG [0x19d]      |   |       |                |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |
| 2013/04/11 | 10:16:22.0 | XRT_ARS_DIS_414_OG [0x19e]        |   |       |                |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |
| 2013/04/11 | 10:18:54.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2013/04/11 | 10:18:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |
| 2013/04/11 | 10:18:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 05          |  |  |  |
| 2013/04/11 | 10:19:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |
| 2013/04/11 | 10:31:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2013/04/11 | 10:31:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2013/04/11 | 10:32:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |
| 2013/04/11 | 10:32:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |
| 2013/04/11 | 10:32:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |
| 2013/04/11 | 10:32:20.0 | XRT_AEC_RESET_413_OG [0x19d]      |   |       |                |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |
| 2013/04/11 | 10:32:22.0 | XRT_ARS_DIS_414_OG [0x19e]        |   |       |                |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |
| 2013/04/11 | 10:34:54.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2013/04/11 | 10:34:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |
| 2013/04/11 | 10:34:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 05          |  |  |  |
| 2013/04/11 | 10:35:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |
| 2013/04/11 | 10:47:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2013/04/11 | 10:47:56.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |
| 2013/04/11 | 10:48:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |                |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 29 99 |  |  |  |
| 2013/04/11 | 10:48:16.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |  |  |
| 2013/04/11 | 10:48:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |  |  |
| 2013/04/11 | 10:48:20.0 | XRT_AEC_RESET_413_OG [0x19d]      |   |       |                |  |  |  |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |  |  |  |
| 2013/04/11 | 10:48:22.0 | XRT_ARS_DIS_414_OG [0x19e]        |   |       |                |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |
| 2013/04/11 | 10:50:54.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |
| 2013/04/11 | 10:50:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |  |  |  |
| 2013/04/11 | 10:50:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]    |   |       |                |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 05          |  |  |  |
| 2013/04/11 | 10:51:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |
| 2013/04/11 | 11:13:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |
| 2013/04/11 | 11:13:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |

Apr 11, 13 14:06

## XRT\_OGLIST\_0393.chk

Page 2/11

|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2013/04/11 | 11:13:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2013/04/11 | 11:16:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2013/04/11 | 11:20:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2013/04/11 | 11:20:26.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2013/04/11 | 11:20:30.0 | AOCS_Ore-point_Start_5_OG [0x09b] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 11:20:46.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 00 00 53 33 |
| 2013/04/11 | 11:20:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2013/04/11 | 11:20:50.0 | XRT_AEC_RESET_413_OG [0x19d]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2013/04/11 | 11:20:52.0 | XRT_ARS_DIS_414_OG [0x19e]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2013/04/11 | 11:23:24.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2013/04/11 | 11:23:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2013/04/11 | 11:23:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 11:23:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 05          |
| 2013/04/11 | 11:36:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2013/04/11 | 11:36:26.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2013/04/11 | 11:36:30.0 | AOCS_Ore-point_Start_6_OG [0x09c] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 11:36:46.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 d6 36 b7 8e |
| 2013/04/11 | 11:36:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2013/04/11 | 11:36:50.0 | XRT_AEC_RESET_413_OG [0x19d]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2013/04/11 | 11:36:52.0 | XRT_ARS_DIS_414_OG [0x19e]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2013/04/11 | 11:39:24.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2013/04/11 | 11:39:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2013/04/11 | 11:39:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 11:39:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 05          |
| 2013/04/11 | 11:46:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2013/04/11 | 11:46:26.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2013/04/11 | 11:46:30.0 | AOCS_Ore-point_Start_7_OG [0x09d] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 11:46:46.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 b4 b5 db 75 |
| 2013/04/11 | 11:46:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2013/04/11 | 11:46:50.0 | XRT_AEC_RESET_413_OG [0x19d]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2013/04/11 | 11:46:52.0 | XRT_ARS_DIS_414_OG [0x19e]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2013/04/11 | 11:49:24.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2013/04/11 | 11:49:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2013/04/11 | 11:49:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 11:49:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 05          |
| 2013/04/11 | 12:02:24.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2013/04/11 | 12:02:26.0 | XRT_FOCUS_POSITION_403_OG [0x193] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2013/04/11 | 12:02:30.0 | AOCS_Ore-point_Start_8_OG [0x09e] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 12:02:46.0 | XRT_FLD_ENA_411_OG [0x19b]        | AOCU_NM             | 5 | 02-76 | 00 ac 5b 00 00 |
| 2013/04/11 | 12:02:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2013/04/11 | 12:02:50.0 | XRT_AEC_RESET_413_OG [0x19d]      | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2013/04/11 | 12:02:52.0 | XRT_ARS_DIS_414_OG [0x19e]        | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2013/04/11 | 12:05:24.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2013/04/11 | 12:05:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2013/04/11 | 12:05:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 12:05:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 05          |
| 2013/04/11 |            |                                   | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |

Apr 11, 13 14:06

## XRT\_OGLIST\_0393.chk

Page 3/11

|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2013/04/11 | 12:18:24.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2013/04/11 | 12:18:26.0 | XRT_FOCUS_POSITION_403_OG [0x193]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 12:18:30.0 | AOCS_ORe-point_Start_9_OG [0x09f]<br>AOCU_NM            | 5 | 02-76 | 00 b4 b5 24 8b |
| 2013/04/11 | 12:18:46.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2013/04/11 | 12:18:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2013/04/11 | 12:18:50.0 | XRT_AEC_RESET_413_OG [0x19d]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2013/04/11 | 12:18:52.0 | XRT_ARS_DIS_414_OG [0x19e]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2013/04/11 | 12:21:24.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2013/04/11 | 12:21:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 12:21:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 05          |
| 2013/04/11 | 12:21:30.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2013/04/11 | 12:34:24.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2013/04/11 | 12:34:26.0 | XRT_FOCUS_POSITION_403_OG [0x193]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 12:34:30.0 | AOCS_ORe-point_Start_10_OG [0x0a0]<br>AOCU_NM           | 5 | 02-76 | 00 d6 36 48 72 |
| 2013/04/11 | 12:34:46.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2013/04/11 | 12:34:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2013/04/11 | 12:34:50.0 | XRT_AEC_RESET_413_OG [0x19d]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2013/04/11 | 12:34:52.0 | XRT_ARS_DIS_414_OG [0x19e]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2013/04/11 | 12:37:24.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2013/04/11 | 12:37:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 12:37:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 05          |
| 2013/04/11 | 12:37:30.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2013/04/11 | 12:51:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2013/04/11 | 12:51:32.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2013/04/11 | 12:51:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]<br>MDP_XRT_PREFLR_STRT   | 1 | 07-F0 | e8             |
| 2013/04/11 | 12:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP   | 1 | 07-F0 | e9             |
| 2013/04/11 | 12:58:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2013/04/11 | 12:58:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 12:59:00.0 | AOCS_ORe-point_Start_11_OG [0x0a1]<br>AOCU_NM           | 5 | 02-76 | 00 29 ca b7 8e |
| 2013/04/11 | 12:59:16.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2013/04/11 | 12:59:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2013/04/11 | 12:59:20.0 | XRT_AEC_RESET_413_OG [0x19d]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2013/04/11 | 12:59:22.0 | XRT_ARS_DIS_414_OG [0x19e]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2013/04/11 | 13:01:54.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2013/04/11 | 13:01:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 13:01:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]<br>MDP_XRT_FL_PROG_SET   | 2 | 07-F0 | c5 05          |
| 2013/04/11 | 13:02:00.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2013/04/11 | 13:08:54.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2013/04/11 | 13:08:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/11 | 13:09:00.0 | AOCS_ORe-point_Start_12_OG [0x0a2]<br>AOCU_NM           | 5 | 02-76 | 00 4b 4b db 75 |
| 2013/04/11 | 13:09:16.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2013/04/11 | 13:09:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA   | 1 | 07-F0 | c8             |
| 2013/04/11 | 13:09:20.0 | XRT_AEC_RESET_413_OG [0x19d]<br>MDP_XRT_AEC_RESET       | 1 | 07-F0 | d0             |
| 2013/04/11 | 13:09:22.0 | XRT_ARS_DIS_414_OG [0x19e]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2013/04/11 | 13:11:54.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET       | 1 | 07-F0 | da             |
| 2013/04/11 | 13:11:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 11          |
| 2013/04/11 | 13:11:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]                          |   |       |                |



Apr 11, 13 14:06

## XRT\_OGLIST\_0393.chk

Page 4/11

|            |            |                                    |                     |   |       |          |       |
|------------|------------|------------------------------------|---------------------|---|-------|----------|-------|
| 2013/04/11 | 13:12:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5       | 05    |
|            |            |                                    | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0       |       |
| 2013/04/11 | 13:24:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1       |       |
| 2013/04/11 | 13:24:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa | 00    |
| 2013/04/11 | 13:25:00.0 | AOCS_ORe-point_Start_13_OG [0x0a3] | AOCU_NM             | 5 | 02-76 | 00 53 a5 | 00 00 |
| 2013/04/11 | 13:25:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8       |       |
| 2013/04/11 | 13:25:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8       |       |
| 2013/04/11 | 13:25:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0       |       |
| 2013/04/11 | 13:25:22.0 | XRT_ARS_DIS_414_OG [0x19e]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5       |       |
| 2013/04/11 | 13:27:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da       |       |
| 2013/04/11 | 13:27:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4       | 11    |
| 2013/04/11 | 13:27:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5       | 05    |
| 2013/04/11 | 13:28:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0       |       |
| 2013/04/11 | 13:40:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1       |       |
| 2013/04/11 | 13:40:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa | 00    |
| 2013/04/11 | 13:41:00.0 | AOCS_ORe-point_Start_14_OG [0x0a4] | AOCU_NM             | 5 | 02-76 | 00 4b 4b | 24 8b |
| 2013/04/11 | 13:41:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8       |       |
| 2013/04/11 | 13:41:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8       |       |
| 2013/04/11 | 13:41:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0       |       |
| 2013/04/11 | 13:41:22.0 | XRT_ARS_DIS_414_OG [0x19e]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5       |       |
| 2013/04/11 | 13:43:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da       |       |
| 2013/04/11 | 13:43:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4       | 11    |
| 2013/04/11 | 13:43:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5       | 05    |
| 2013/04/11 | 13:44:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0       |       |
| 2013/04/11 | 13:56:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1       |       |
| 2013/04/11 | 13:56:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa | 00    |
| 2013/04/11 | 13:57:00.0 | AOCS_ORe-point_Start_15_OG [0x0a5] | AOCU_NM             | 5 | 02-76 | 00 29 db | 48 72 |
| 2013/04/11 | 13:57:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8       |       |
| 2013/04/11 | 13:57:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8       |       |
| 2013/04/11 | 13:57:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0       |       |
| 2013/04/11 | 13:57:22.0 | XRT_ARS_DIS_414_OG [0x19e]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5       |       |
| 2013/04/11 | 13:59:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da       |       |
| 2013/04/11 | 13:59:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4       | 11    |
| 2013/04/11 | 13:59:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5       | 05    |
| 2013/04/11 | 14:00:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0       |       |
| 2013/04/11 | 14:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1       |       |
| 2013/04/11 | 14:09:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 | 00    |
| 2013/04/11 | 14:10:00.0 | AOCS_ORe-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 02 00 00 | 00 00 |
| 2013/04/11 | 14:10:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8       |       |
| 2013/04/11 | 14:10:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8       |       |
| 2013/04/11 | 14:10:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0       |       |
| 2013/04/11 | 14:10:22.0 | XRT_ARS_DIS_414_OG [0x19e]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5       |       |
| 2013/04/11 | 14:12:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da       |       |
| 2013/04/11 | 14:12:56.0 | XRT_QT_PROG_SET_445_OG [0x1bd]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4       | 10    |
| 2013/04/11 | 14:12:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5       | 05    |
| 2013/04/11 | 14:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0       |       |
| 2013/04/11 | 14:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1       |       |



Apr 11, 13 14:06

## XRT\_OGLIST\_0393.chk

Page 6/11

|            |            |                                |   |       |    |
|------------|------------|--------------------------------|---|-------|----|
| 2013/04/11 | 18:00:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/11 | 18:03:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/11 | 18:23:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/11 | 18:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/11 | 19:25:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/11 | 19:25:02.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/11 | 19:25:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/11 | 19:28:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/11 | 19:33:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/11 | 19:34:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/11 | 19:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/11 | 19:37:02.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/11 | 19:37:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/11 | 19:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/11 | 20:00:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/11 | 20:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/11 | 21:03:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/11 | 21:03:32.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/11 | 21:03:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/11 | 21:06:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/11 | 21:12:00.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/11 | 21:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/11 | 21:14:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/11 | 21:14:32.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/11 | 21:14:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/11 | 21:17:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/11 | 21:37:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/11 | 21:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/11 | 22:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/11 | 22:42:02.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/11 | 22:42:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/11 | 22:45:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/11 | 22:50:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/11 | 22:51:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/11 | 22:52:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/11 | 22:52:02.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/11 | 22:52:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/11 | 22:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/11 | 23:12:00.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/11 | 23:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/12 | 00:20:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/12 | 00:20:32.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/12 | 00:20:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/12 | 00:23:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/12 | 00:29:30.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |
|            |            | MDP_XRT_CTRL_MANU              | 1 | 07-F0 | c1 |
| 2013/04/12 | 00:29:32.0 | XRT_FLD_RESET_415_OG [0x19f]   |   |       |    |
|            |            | MDP_XRT_FLD_RESET              | 1 | 07-F0 | da |
| 2013/04/12 | 00:29:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2] |   |       |    |
|            |            | MDP_XRT_PREFLR_STRT            | 1 | 07-F0 | e8 |
| 2013/04/12 | 00:32:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3] |   |       |    |
|            |            | MDP_XRT_PREFLR_STOP            | 1 | 07-F0 | e9 |
| 2013/04/12 | 00:36:30.0 | XRT_Custom_430_OG [0x1ae]      |   |       |    |
| 2013/04/12 | 00:37:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]   |   |       |    |
|            |            | MDP_XRT_CTRL_AUTO              | 1 | 07-F0 | c0 |
| 2013/04/12 | 01:52:00.0 | XRT_CTRL_MANU_400_OG [0x190]   |   |       |    |

|            |            |                                    |                     |   |       |                |  |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|--|
| 2013/04/12 | 01:52:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 01:52:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/04/12 | 01:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/04/12 | 02:12:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/04/12 | 02:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 03:25:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 03:25:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/04/12 | 03:25:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/04/12 | 03:28:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/04/12 | 03:49:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 03:50:00.5 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 04:59:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 04:59:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 04:59:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/04/12 | 04:59:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/04/12 | 05:02:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/04/12 | 05:02:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/04/12 | 05:26:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/04/12 | 05:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 05:55:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 05:55:26.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 05:55:30.0 | AOCS_OrE-point_Start_3_OG [0x099]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2013/04/12 | 05:55:30.0 | AOCU_NM                            | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |
| 2013/04/12 | 05:55:46.0 | XRT_FLD_DIS_404_OG [0x194]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |
| 2013/04/12 | 05:55:48.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |
| 2013/04/12 | 05:55:50.0 | XRT_ARS_DIS_406_OG [0x196]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2013/04/12 | 05:58:28.0 | XRT_QT_PROG_SET_426_OG [0x1aa]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 08          |  |
| 2013/04/12 | 05:58:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 08          |  |
| 2013/04/12 | 06:05:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 06:05:26.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 06:05:30.0 | AOCS_OrE-point_Start_17_OG [0x0a7] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2013/04/12 | 06:05:30.0 | AOCU_NM                            | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |  |
| 2013/04/12 | 06:05:46.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2013/04/12 | 06:05:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2013/04/12 | 06:05:50.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2013/04/12 | 06:05:52.0 | XRT_ARS_DIS_414_OG [0x19e]         | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2013/04/12 | 06:08:24.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2013/04/12 | 06:08:26.0 | XRT_QT_PROG_SET_445_OG [0x1bd]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/04/12 | 06:08:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 10          |  |
| 2013/04/12 | 06:08:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 05          |  |
| 2013/04/12 | 06:39:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 06:39:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 06:39:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/04/12 | 06:42:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/04/12 | 07:04:01.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/04/12 | 07:05:01.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 08:19:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 08:19:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/04/12 | 08:19:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/04/12 | 08:19:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/04/12 | 08:22:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/04/12 | 08:22:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/04/12 | 08:41:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/04/12 | 08:42:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/04/12 | 09:44:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |

Apr 11, 13 14:06

## XRT\_OGLIST\_0393.chk

Page 8/11

|            |            |                                    |                           |   |       |                |
|------------|------------|------------------------------------|---------------------------|---|-------|----------------|
| 2013/04/12 | 09:44:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 09:45:00.0 | AOCS_OrE-point_Start_17_OG [0x0a7] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |
| 2013/04/12 | 09:45:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM                   | 5 | 02-76 | 04 00 00 00 00 |
| 2013/04/12 | 09:45:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2013/04/12 | 09:45:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |
| 2013/04/12 | 09:45:22.0 | XRT_ARS_DIS_414_OG [0x19e]         | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |
| 2013/04/12 | 09:47:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2013/04/12 | 09:47:56.0 | XRT_QT_PROG_SET_445_OG [0x1bd]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 | 09:47:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 10          |
| 2013/04/12 | 09:48:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 05          |
| 2013/04/12 | 10:00:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/04/12 | 10:00:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 10:00:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 | 10:03:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/04/12 | 10:20:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2013/04/12 | 10:21:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2013/04/12 | 11:49:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/04/12 | 11:49:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 11:49:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 | 11:52:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/04/12 | 11:59:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2013/04/12 | 12:00:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2013/04/12 | 13:27:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/04/12 | 13:27:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 13:27:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 | 13:30:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/04/12 | 13:37:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2013/04/12 | 13:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2013/04/12 | 15:06:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/04/12 | 15:06:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 15:06:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 | 15:09:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/04/12 | 15:16:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2013/04/12 | 15:17:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2013/04/12 | 15:23:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/04/12 | 15:23:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 15:23:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 | 15:26:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/04/12 | 15:46:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2013/04/12 | 15:47:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2013/04/12 | 16:44:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/04/12 | 16:44:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 16:44:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 | 16:47:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/04/12 | 16:54:30.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2013/04/12 | 16:55:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2013/04/12 | 16:59:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/04/12 | 16:59:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/04/12 | 16:59:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/04/12 |            |                                    | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |

Apr 11, 13 14:06

## XRT\_OGLIST\_0393.chk

Page 9/11

|            |            |                                    |   |       |                |
|------------|------------|------------------------------------|---|-------|----------------|
| 2013/04/12 | 17:02:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2013/04/12 | 17:23:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2013/04/12 | 17:24:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2013/04/12 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2013/04/12 | 17:59:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  |   |       |                |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |
| 2013/04/12 | 18:00:00.0 | AOCS_ORe-point_Start_3_OG [0x099]  |   |       |                |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |
| 2013/04/12 | 18:00:16.0 | XRT_FLD_DIS_404_OG [0x194]         |   |       |                |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | d9             |
| 2013/04/12 | 18:00:18.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |
| 2013/04/12 | 18:00:20.0 | XRT_ARS_DIS_406_OG [0x196]         |   |       |                |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |
| 2013/04/12 | 18:02:58.0 | XRT_QT_PROG_SET_426_OG [0x1aa]     |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 08          |
| 2013/04/12 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2013/04/12 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2013/04/12 | 18:09:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  |   |       |                |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |
| 2013/04/12 | 18:10:00.0 | AOCS_ORe-point_Start_17_OG [0x0a7] |   |       |                |
|            |            | AOCU_NM                            | 5 | 02-76 | 04 00 00 00 00 |
| 2013/04/12 | 18:10:16.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |
| 2013/04/12 | 18:10:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |
| 2013/04/12 | 18:10:20.0 | XRT_AEC_RESET_413_OG [0x19d]       |   |       |                |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |
| 2013/04/12 | 18:10:22.0 | XRT_ARS_DIS_414_OG [0x19e]         |   |       |                |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |
| 2013/04/12 | 18:12:54.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2013/04/12 | 18:12:56.0 | XRT_QT_PROG_SET_445_OG [0x1bd]     |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 10          |
| 2013/04/12 | 18:12:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]     |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 05          |
| 2013/04/12 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2013/04/12 | 18:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2013/04/12 | 18:23:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2013/04/12 | 18:23:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |
| 2013/04/12 | 18:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2013/04/12 | 18:33:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2013/04/12 | 18:34:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2013/04/12 | 18:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2013/04/12 | 18:37:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2013/04/12 | 18:37:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |
| 2013/04/12 | 18:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2013/04/12 | 19:00:01.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2013/04/12 | 19:01:01.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2013/04/12 | 20:01:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2013/04/12 | 20:01:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2013/04/12 | 20:01:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |
| 2013/04/12 | 20:04:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2013/04/12 | 20:11:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2013/04/12 | 20:12:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2013/04/12 | 20:14:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2013/04/12 | 20:14:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2013/04/12 | 20:14:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |
| 2013/04/12 | 20:17:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |
| 2013/04/12 | 20:37:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |
| 2013/04/12 | 20:38:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |
| 2013/04/12 | 21:40:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |
| 2013/04/12 | 21:40:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |
| 2013/04/12 | 21:40:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |

Apr 11, 13 14:06

XRT\_OGLIST\_0393.chk

Page 10/11

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2013/04/12 | 21:43:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/12 | 21:50:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/04/12 | 21:51:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/12 | 21:51:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/12 | 21:51:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/12 | 21:51:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/12 | 21:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/12 | 22:13:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/04/12 | 22:14:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/12 | 23:18:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/12 | 23:18:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/12 | 23:18:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/12 | 23:21:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/12 | 23:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/12 | 23:29:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/12 | 23:29:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/12 | 23:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/12 | 23:40:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/04/12 | 23:41:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/13 | 00:56:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 00:56:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/13 | 00:56:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/13 | 00:59:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/13 | 01:12:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/04/13 | 01:13:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/13 | 02:28:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 02:28:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/13 | 02:28:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/13 | 02:31:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/13 | 02:48:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/04/13 | 02:49:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/13 | 03:56:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 03:56:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/13 | 03:56:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/13 | 03:59:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/13 | 04:26:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/04/13 | 04:27:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/13 | 05:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 05:37:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/13 | 05:37:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/13 | 05:40:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/13 | 06:03:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/04/13 | 06:04:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/13 | 06:13:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 06:13:26.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2013/04/13 | 06:13:30.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2013/04/13 | 06:13:46.0 | XRT_FLD_DIS_404_OG [0x194]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2013/04/13 | 06:13:48.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2013/04/13 | 06:13:50.0 | XRT_ARS_DIS_406_OG [0x196]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/04/13 | 06:16:28.0 | XRT_QT_PROG_SET_426_OG [0x1aa]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 08          |  |  |  |  |

Apr 11, 13 14:06

## XRT\_OGLIST\_0393.chk

Page 11/11

|            |            |                                    |   |       |                |  |  |  |  |
|------------|------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2013/04/13 | 06:16:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/13 | 06:23:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 06:23:26.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2013/04/13 | 06:23:30.0 | AOCS_OrE-point_Start_17_OG [0x0a7] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 04 00 00 00 00 |  |  |  |  |
| 2013/04/13 | 06:23:46.0 | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
| 2013/04/13 | 06:23:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2013/04/13 | 06:23:50.0 | XRT_AEC_RESET_413_OG [0x19d]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2013/04/13 | 06:23:52.0 | XRT_ARS_DIS_414_OG [0x19e]         |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/04/13 | 06:26:24.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/13 | 06:26:26.0 | XRT_QT_PROG_SET_445_OG [0x1bd]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2013/04/13 | 06:26:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 05          |  |  |  |  |
| 2013/04/13 | 06:26:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/04/13 | 07:17:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 07:17:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/04/13 | 07:17:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/04/13 | 07:20:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/04/13 | 08:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/04/13 | 09:00:00.0 | AOCS_OrE-point_Start_3_OG [0x099]  |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |