

# XRT Timeline to be uploaded on 2013/10/21

Period: 2013/10/21 10:21:00 - 2013/10/26 09:55:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

| XOB #199F: HOP130-Synoptic 3 Filter- 2x2 Q95 (Almesh 12/128/723ms; Tipoly 24/362/1443ms; Althick 65536ms) with G-band |                          |       |      |       |         |     |     |                        |       |            |          |        |
|---|--------------------------|-------|------|-------|---------|-----|-----|------------------------|-------|------------|----------|--------|
| Term  | Pointing (x, y)          |       |      |       | Comment |     |     |                        |       |            |          |        |
| 10/21 11:20:00 - 10/21 14:59:54   | Fixed ( 0.0, 0.0) (3/15) |       |      |       |         |     |     |                        |       |            |          |        |
| <b>PROG= 14 2-time(s)</b>   |                          |       |      |       |         |     |     |                        |       |            |          |        |
| └─ Subr= 1 1-time(s) 180.0sec   |                          |       |      |       |         |     |     |                        |       |            |          |        |
| └─ Seqn= 85 1-time(s) 25.0sec   |                          |       |      |       |         |     |     |                        |       |            |          |        |
| └─ Open/Al-mesh   | Open/Al-mesh             | close | Safe | Norm  | 12ms    | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Open/Al-mesh   | Open/Al-mesh             | close | Safe | Norm  | 125ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Open/Al-mesh   | Open/Al-mesh             | close | Safe | Norm  | 707ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Seqn= 86 1-time(s) 25.0sec   |                          |       |      |       |         |     |     |                        |       |            |          |        |
| └─ Open/Ti-poly   | Open/Ti-poly             | close | Safe | Norm  | 24ms    | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Open/Ti-poly   | Open/Ti-poly             | close | Safe | Norm  | 354ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Open/Ti-poly   | Open/Ti-poly             | close | Safe | Norm  | 1.41s   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Seqn= 75 1-time(s) 2.0sec  |                          |       |      |       |         |     |     |                        |       |            |          |        |
| └─ Open/thick-Al  | Open/thick-Al            | close | Safe | Norm  | 64.0s   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| └─ Seqn= 66 1-time(s) 2.0sec  |                          |       |      |       |         |     |     |                        |       |            |          |        |
| └─ Open/G-band  | Open/G-band              | open  | Safe | Norm  | 8ms     | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| └─ 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 |        |

| XOB #19B0: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, shorter thin-Be, thick Al and Al/Poly context, With G-band |                                       |       |      |       |              |     |     |                      |       |            |          |        |
|--|---------------------------------------|-------|------|-------|--------------|-----|-----|----------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)                       |       |      |       | Comment      |     |     |                      |       |            |          |        |
| 10/21 15:03:00 - 10/21 17:57:54  | Track (-427.3, 18.7) @ 10/21 15:00:00 |       |      |       | AR11875 obs. |     |     |                      |       |            |          |        |
| 10/21 18:11:00 - 10/22 06:30:24  | Track (-401.0, 17.7) @ 10/21 18:08:00 |       |      |       | AR11875 obs. |     |     |                      |       |            |          |        |
| 10/22 09:43:30 - 10/22 17:53:30  | Track (-265.4, 13.9) @ 10/22 09:40:30 |       |      |       | AR11875 obs. |     |     |                      |       |            |          |        |
| 10/22 18:30:00 - 10/23 06:02:24  | Track (-185.9, 12.7) @ 10/22 18:27:00 |       |      |       | AR11875 obs. |     |     |                      |       |            |          |        |
| <b>PROG= 17 Inf.-time(s)</b>   |                                       |       |      |       |              |     |     |                      |       |            |          |        |
| └─ Subr= 1 1-time(s) 2.0sec  |                                       |       |      |       |              |     |     |                      |       |            |          |        |
| └─ Seqn= 8 2-time(s) 2.0sec  |                                       |       |      |       |              |     |     |                      |       |            |          |        |
| └─ Open/G-band   | Open/G-band                           | close | Safe | Norm  | 44ms         | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| └─ Subr= 2 2-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= 98 4-time(s) 2.0sec   |                                       |       |      |       |              |     |     |                      |       |            |          |        |
| └─ Al-poly/Open  | thin-Be/Open                          | close | Safe | Norm  | 500ms        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ Open/Ti-poly  | Open/thick-Be                         | close | Safe | Norm  | 1.00s        | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ thin-Be/Open  | med-Be/Open                           | close | Safe | Norm  | 5.66s        | Obs | 1x1 | 512x512 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ Open/thick-Al   | Open/thick-Al                         | close | Safe | Norm  | 16.0s        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ Seqn= 21 45-time(s) 60.0sec   |                                       |       |      |       |              |     |     |                      |       |            |          |        |
| └─ thin-Be/Open  | Open/thick-Be                         | close | Safe | Norm  | 1.00s        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ Al-poly/Open  | Open/thick-Al                         | close | Safe | Norm  | 500ms        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| └─ thin-Be/Open  | Open/thick-Be                         | close | Safe | Norm  | 1.00s        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |
| └─ Al-poly/Open  | Open/thick-Al                         | close | Safe | Norm  | 500ms        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |
| └─ thin-Be/Open  | Open/thick-Be                         | close | Safe | Norm  | 1.00s        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |
| └─ Al-poly/Open  | Open/thick-Al                         | close | Safe | Norm  | 500ms        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |
| └─ thin-Be/Open  | Open/thick-Be                         | close | Safe | Norm  | 1.00s        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |
| └─ Al-poly/Open  | Open/thick-Al                         | close | Safe | Norm  | 500ms        | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |
| Default Filter   | Thicker Filter                        | VLS   | mode | image | Exp.         | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| XOB #19B5: Synoptic Q95 2x2 - Al/mesh(12/128/723) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Ti-poly(33/362/1443) + Thi |                   |       |      |      |                            |     |     |                        |      |   |   |        |
|--|-------------------|-------|------|------|----------------------------|-----|-----|------------------------|------|---|---|--------|
| Term   | Pointing (x, y)   |       |      |      | Comment                    |     |     |                        |      |   |   |        |
| 10/21 18:03:00 - 10/21 18:07:54  | Fixed ( 0.0, 0.0) |       |      |      | synoptic, shifted -2.0 min |     |     |                        |      |   |   |        |
| 10/22 06:33:30 - 10/22 06:40:24  | Fixed ( 0.0, 0.0) |       |      |      | synoptic, shifted 30.5 min |     |     |                        |      |   |   |        |
| 10/22 18:20:00 - 10/22 18:26:54  | Fixed ( 0.0, 0.0) |       |      |      | synoptic, shifted 17.0 min |     |     |                        |      |   |   |        |
| 10/23 06:05:30 - 10/23 06:12:24  | Fixed ( 0.0, 0.0) |       |      |      | synoptic, shifted 2.5 min  |     |     |                        |      |   |   |        |
| <b>PROG= 08 1-time(s)</b>  |                   |       |      |      |                            |     |     |                        |      |   |   |        |
| └─ Subr= 1 1-time(s) 12.0sec   |                   |       |      |      |                            |     |     |                        |      |   |   |        |
| └─ Seqn= 82 1-time(s) 4.0sec   |                   |       |      |      |                            |     |     |                        |      |   |   |        |
| └─ Open/Al-mesh  | Open/Al-mesh      | close | Safe | Norm | 12ms                       | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| └─ Open/Al-mesh  | Open/Al-mesh      | close | Safe | Norm | 125ms                      | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| └─ Open/Al-mesh  | Open/Al-mesh      | close | Safe | Norm | 707ms                      | 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 |
| └─ Seqn= 83 1-time(s) 4.0sec   |                   |       |      |      |                            |     |     |                        |      |   |   |        |
| └─ Open/Ti-poly  | Open/Ti-poly      | close | Safe | Norm | 32ms                       | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| └─ Open/Ti-poly  | Open/Ti-poly      | close | Safe | Norm | 354ms                      | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |
| └─ Open/Ti-poly  | Open/Ti-poly      | close | Safe | Norm | 1.41s                      | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95 | 0 | 0 | 2.0sec |

| Seqn           | 1-time(s)      | 2.0sec |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
|----------------|----------------|--------|------|-------|-------|-----|-----|--------------------|--------------|-------|------------|----------|--------|--|--|--|--|--|--|
| thin-Be/Open   | thin-Be/Open   | close  | Safe | Norm  | 125ms | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |  |  |  |  |  |
| thin-Be/Open   | thin-Be/Open   | close  | Safe | Norm  | 707ms | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |  |  |  |  |  |
| thin-Be/Open   | thin-Be/Open   | close  | Safe | Norm  | 2.83s | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |  |  |  |  |  |
| Open/G-band    | Open/G-band    | open   | Safe | Norm  | 8ms   | Obs | 2x2 | 2048x2048          | (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |  |  |  |  |  |  |
| 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 |        |  |  |  |  |  |  |

**XOB #19B2: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, shorter thin-Be, thick Al and Al/Poly context, With G-band**

| Term                            | Pointing (x, y)                       | Comment                       |
|---------------------------------|---------------------------------------|-------------------------------|
| 10/22 06:43:30 - 10/22 09:40:24 | Fixed ( -940.0, -207.0)               | AR obs at the SE-limb for EIS |
| 10/23 06:15:30 - 10/23 06:32:30 | Track ( -77.3, 12.0) @ 10/23 06:12:30 | AR11875 obs.                  |

**PROG= 18 Inf.-time(s)**

| Subr           | 1-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
|----------------|----------------|----------|------|-------|-------|-----|-----|--------------------|--------------|-------|------------|----------|--------|--|--|--|--|--|--|
| Seqn= 8        | 2-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
| Open/G-band    | Open/G-band    | close    | Safe | Norm  | 44ms  | Obs | 1x1 | 384x384            | (1064, 1048) | DPCM  | 0          | 0        | 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= 98       | 4-time(s)      | 2.0sec   |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
| Al-poly/Open   | thin-Be/Open   | close    | Safe | Norm  | 500ms | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| Open/Ti-poly   | Open/thick-Be  | close    | Safe | Norm  | 1.00s | Obs | 1x1 | 512x512            | (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| thin-Be/Open   | med-Be/Open    | close    | Safe | Norm  | 5.66s | Obs | 1x1 | 512x512            | (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| Open/thick-Al  | Open/thick-Al  | close    | Safe | Norm  | 16.0s | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| Seqn= 21       | 25-time(s)     | 120.0sec |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
| thin-Be/Open   | Open/thick-Be  | close    | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| Al-poly/Open   | Open/thick-Al  | close    | Safe | Norm  | 500ms | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| thin-Be/Open   | Open/thick-Be  | close    | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |  |  |  |  |  |  |
| Al-poly/Open   | Open/thick-Al  | close    | Safe | Norm  | 500ms | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |  |  |  |  |  |  |
| thin-Be/Open   | Open/thick-Be  | close    | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |  |  |  |  |  |  |
| Al-poly/Open   | Open/thick-Al  | close    | Safe | Norm  | 500ms | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |  |  |  |  |  |  |
| thin-Be/Open   | Open/thick-Be  | close    | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |  |  |  |  |  |  |
| Al-poly/Open   | Open/thick-Al  | close    | Safe | Norm  | 500ms | Obs | 1x1 | 384x384            | (1064, 1048) | Q=95  | 3          | 3        | 2.0sec |  |  |  |  |  |  |
| Default Filter | Thicker Filter | VLS      | mode | image | Exp.  | CCD | Bin | ROI: size (center) |              | Comp. | AEC Buffer | Interval |        |  |  |  |  |  |  |

\* \* \* \* \* **Flare mode** \* \* \* \* \*

**XOB #19C8: Flare obs. dynamics - thin-Be high cadence long/short pairs + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2)-Gband (45ms)-15**

| Term                            | Pointing (x, y)                        | Comment                       |
|---------------------------------|--|-------------------------------|
| 10/21 15:03:00 - 10/21 17:57:54 | Track ( -427.3, 18.7) @ 10/21 15:00:00 | AR11875 obs.                  |
| 10/21 18:11:00 - 10/22 06:30:24 | Track ( -401.0, 17.7) @ 10/21 18:08:00 | AR11875 obs.                  |
| 10/22 06:43:30 - 10/22 09:40:24 | Fixed ( -940.0, -207.0)                | AR obs at the SE-limb for EIS |
| 10/22 09:43:30 - 10/22 17:53:30 | Track ( -265.4, 13.9) @ 10/22 09:40:30 | AR11875 obs.                  |
| 10/22 18:30:00 - 10/23 06:02:24 | Track ( -185.9, 12.7) @ 10/22 18:27:00 | AR11875 obs.                  |
| 10/23 06:15:30 - 10/23 06:32:30 | Track ( -77.3, 12.0) @ 10/23 06:12:30  | AR11875 obs.                  |

**PROG= 12 15-time(s)**

| Subr           | 1-time(s)        | 8.0sec |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
|----------------|------------------|--------|------|-------|-------|-----|-----|--------------------|--------------|-------|------------|----------|--------|--|--|--|--|--|--|
| Seqn= 69       | 1-time(s)        | 8.0sec |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
| thin-Be/Open   | med-Be/Open      | close  | Safe | Norm  | 250ms | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |  |  |  |  |  |  |
| thin-Be/Open   | med-Be/Open      | close  | Safe | Norm  | 250ms | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| Seqn= 10       | 1-time(s)        | 2.0sec |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
| med-Al/Open    | med-Al/thick-Al  | close  | Safe | Norm  | 500ms | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| Open/thick-Be  | Open/thick-Be    | close  | Safe | Norm  | 2.00s | Obs | 1x1 | 384x384            | (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |  |  |  |  |  |
| Seqn= 11       | 1-time(s)        | 2.0sec |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
| Al-poly/Open   | Al-poly/thick-Al | close  | Safe | Norm  | 125ms | Obs | 2x2 | 512x512            | (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |  |  |  |  |  |  |
| Seqn= 15       | 1-time(s)        | 2.0sec |      |       |       |     |     |                    |              |       |            |          |        |  |  |  |  |  |  |
| 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

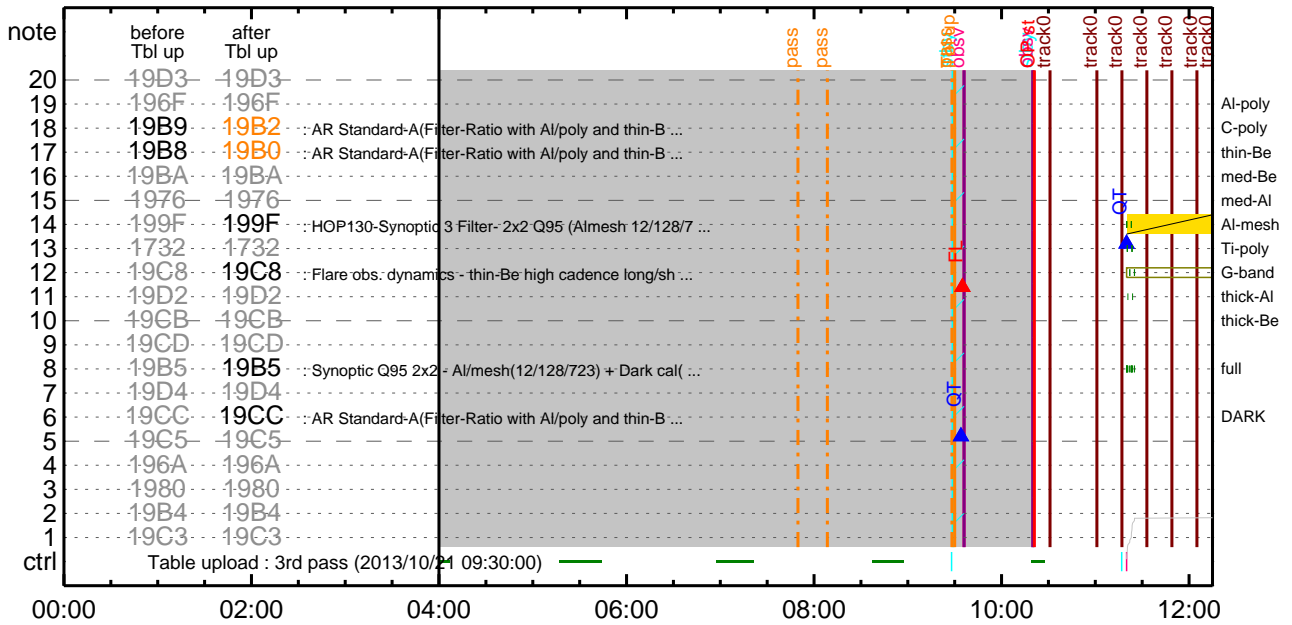
\* \* \* \* \* **Flare Detection** \* \* \* \* \*

**FLD Patrol**

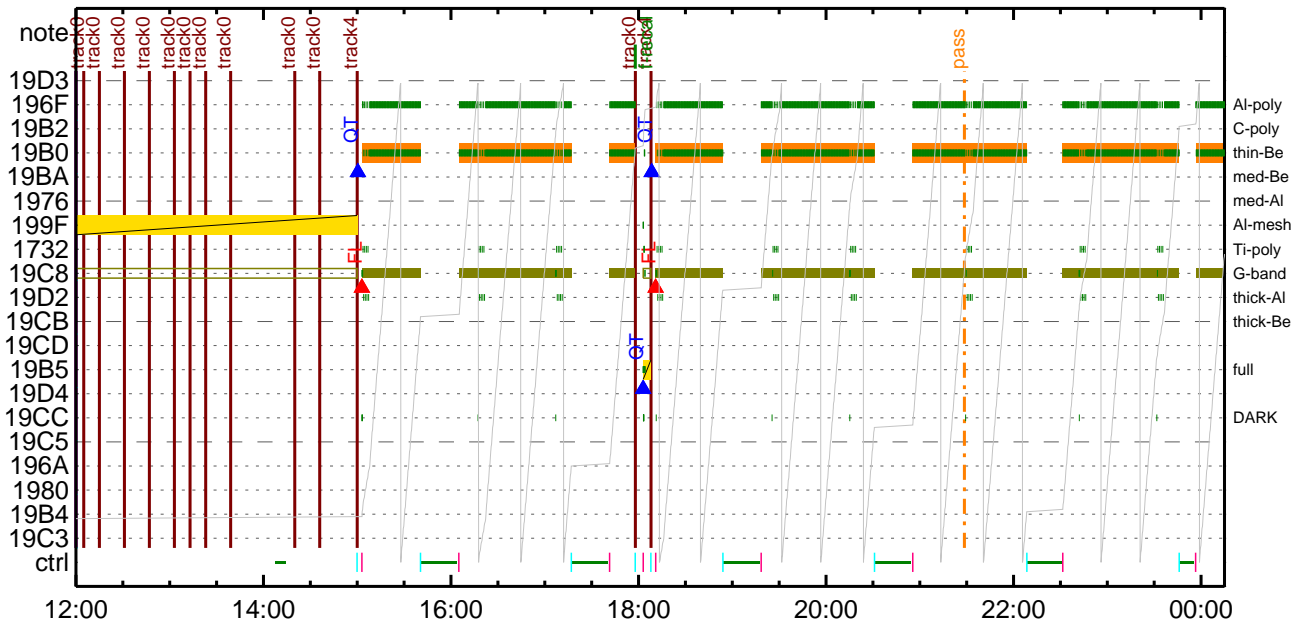
| Term                            | Pointing (x, y)                        | Comment                       |
|---------------------------------|--|-------------------------------|
| 10/21 15:00:16 - 10/21 18:02:16 | Track ( -427.3, 18.7) @ 10/21 15:00:00 | AR11875 obs.                  |
| 10/21 18:08:16 - 10/22 06:30:46 | Track ( -401.0, 17.7) @ 10/21 18:08:00 | AR11875 obs.                  |
| 10/22 06:40:46 - 10/22 18:17:16 | Fixed ( -940.0, -207.0)                | AR obs at the SE-limb for EIS |
| 10/22 18:27:16 - 10/23 06:02:46 | Track ( -185.9, 12.7) @ 10/22 18:27:00 | AR11875 obs.                  |
| 10/23 06:12:46 - 10/26 09:55:00 | Track ( -77.3, 12.0) @ 10/23 06:12:30  | AR11875 obs.                  |

|                |                |       |      |       |      |     |     |                    |       |                     |
|----------------|----------------|-------|------|-------|------|-----|-----|--------------------|-------|---------------------|
| 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 |

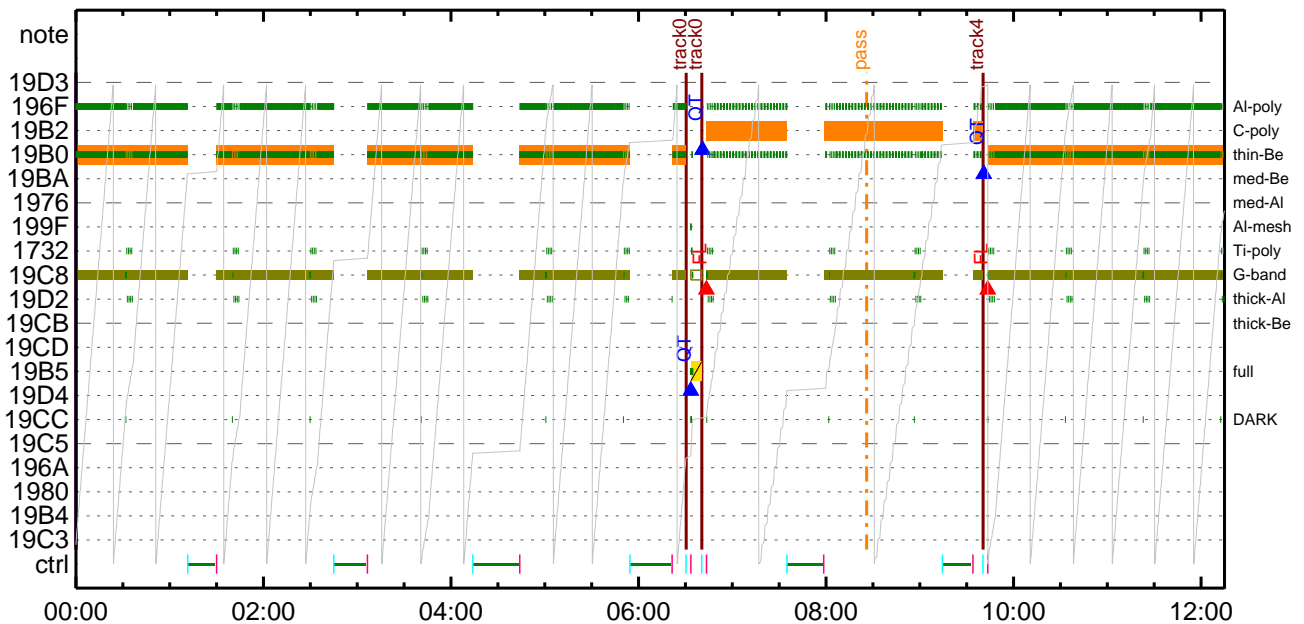
### CMDI #0844 2013/10/21



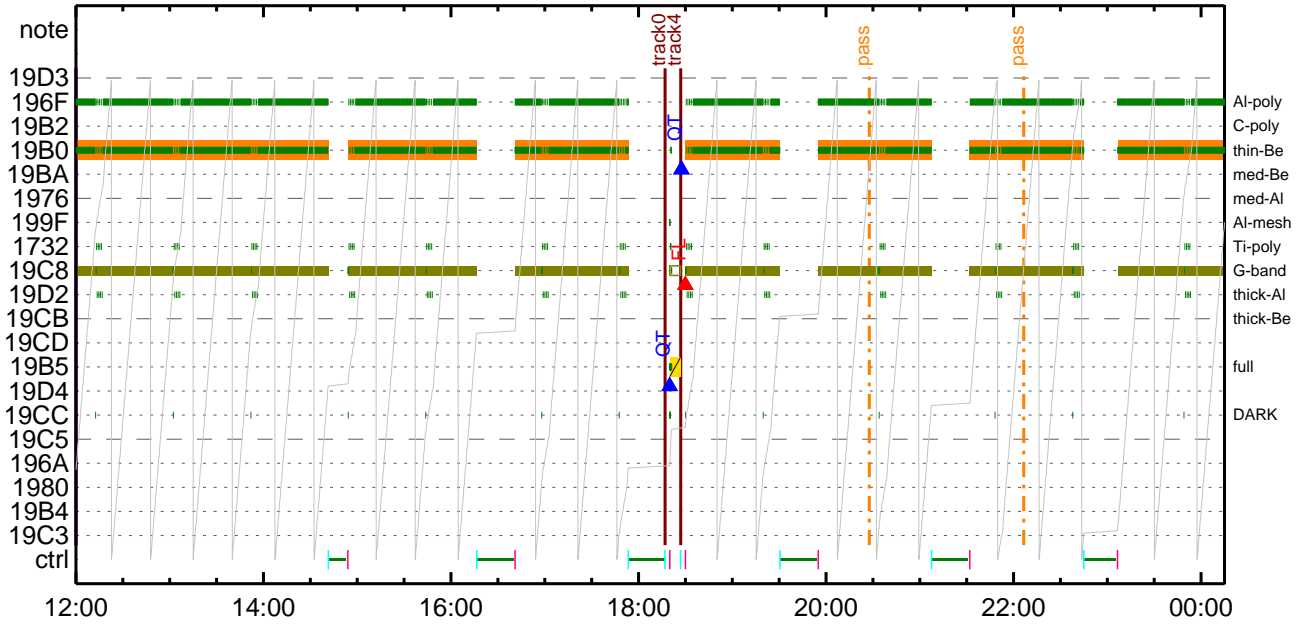
### CMDI #0844 2013/10/21



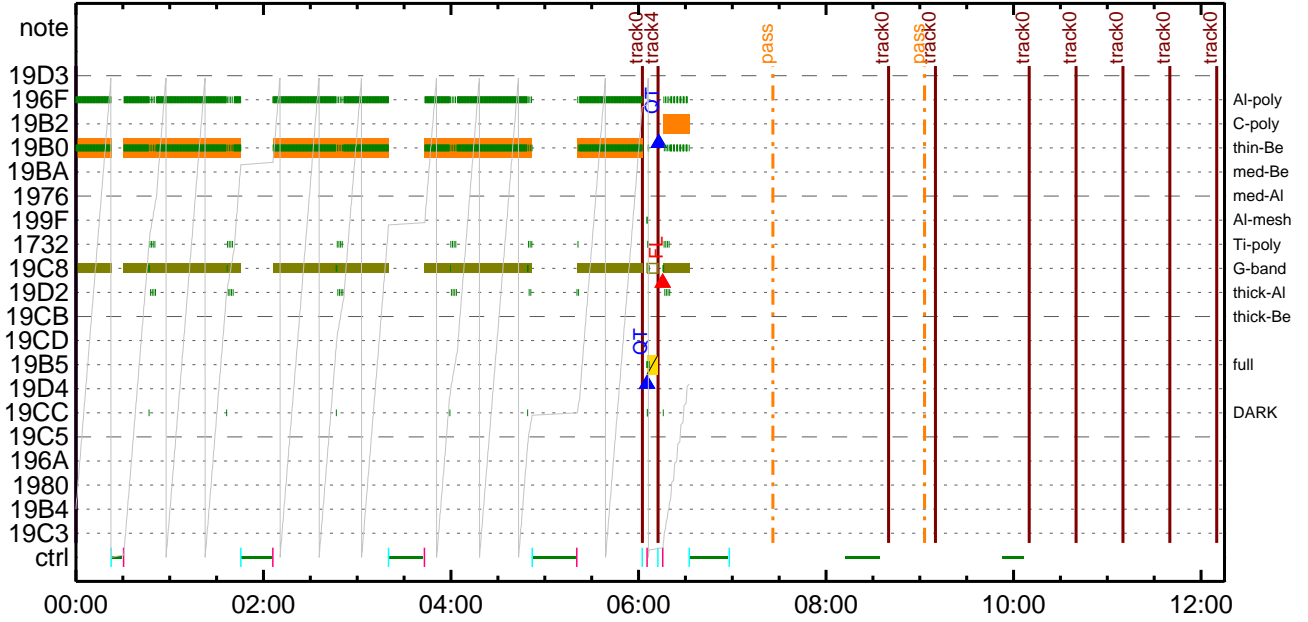
### CMDI #0844 2013/10/22



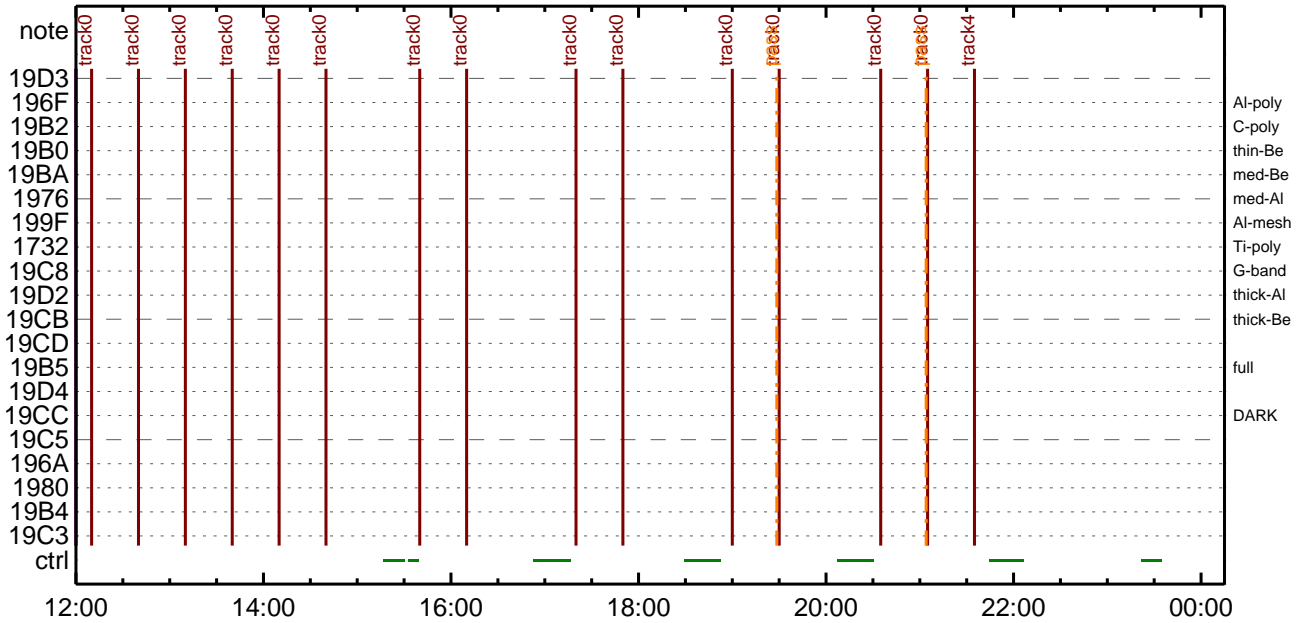
CMDI #0844 2013/10/22



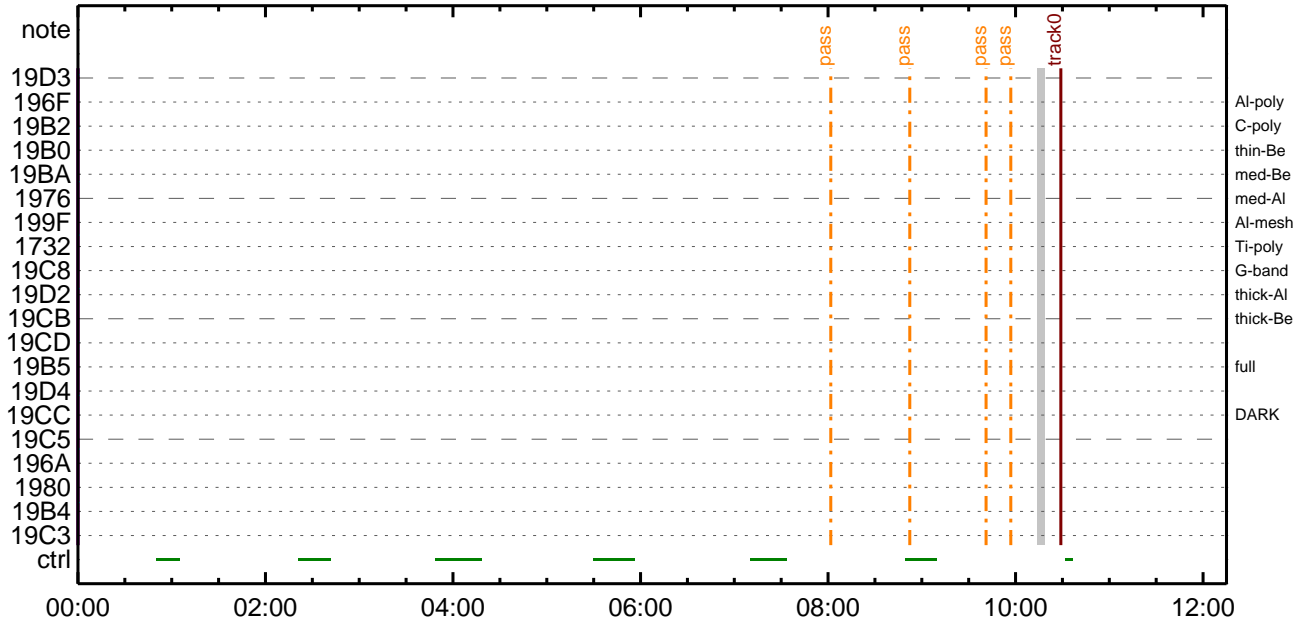
CMDI #0844 2013/10/23



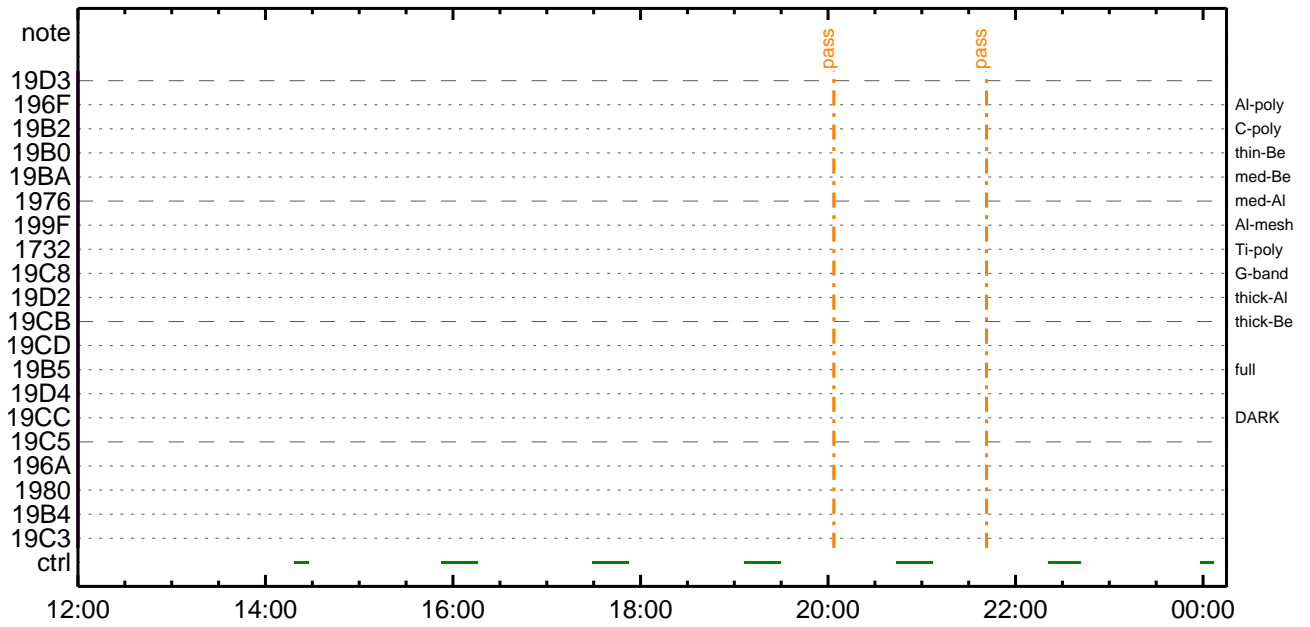
CMDI #0844 2013/10/23



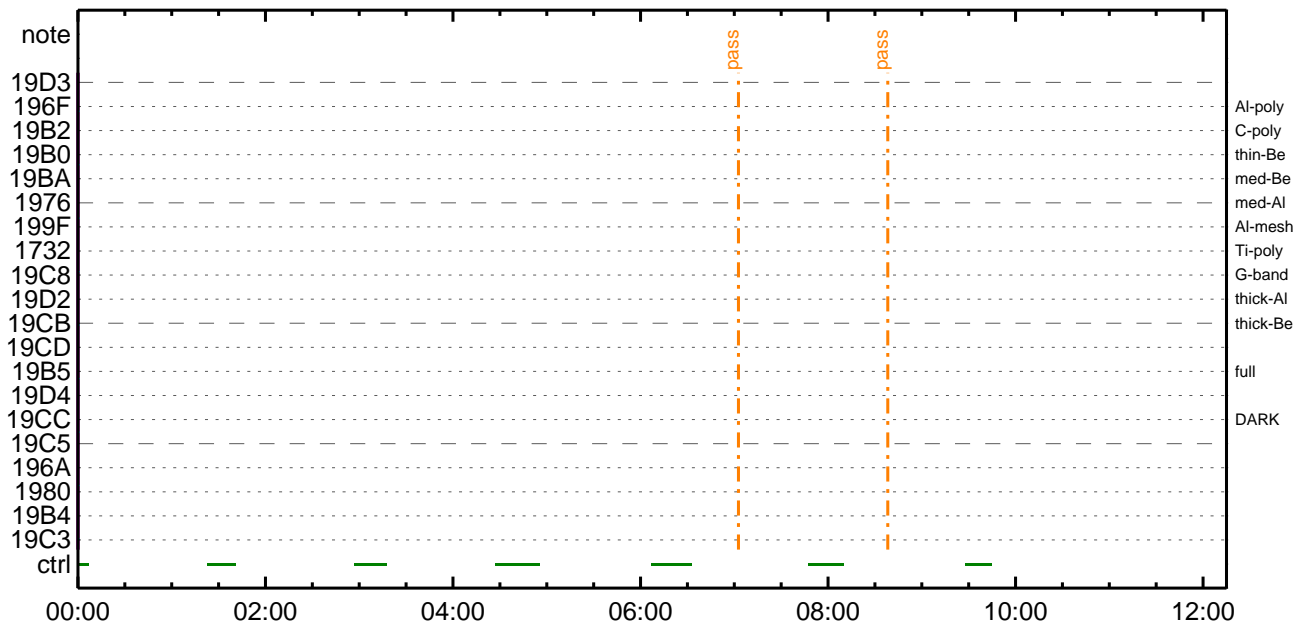
CMDI #0844 2013/10/24



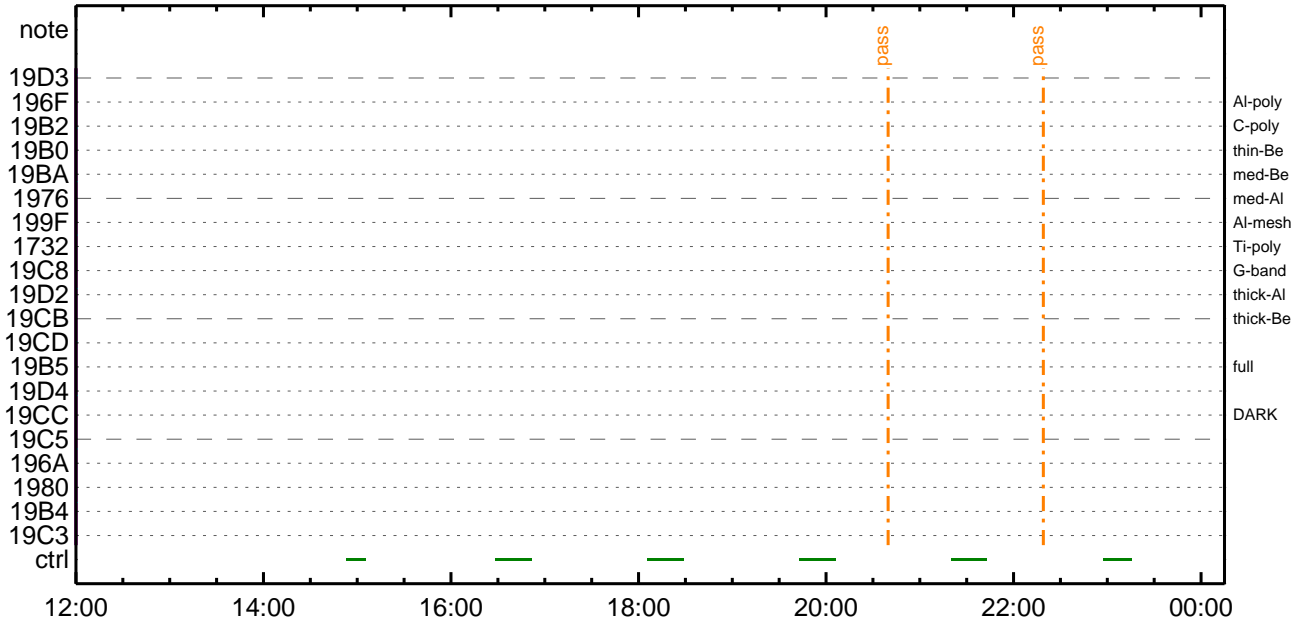
CMDI #0844 2013/10/24



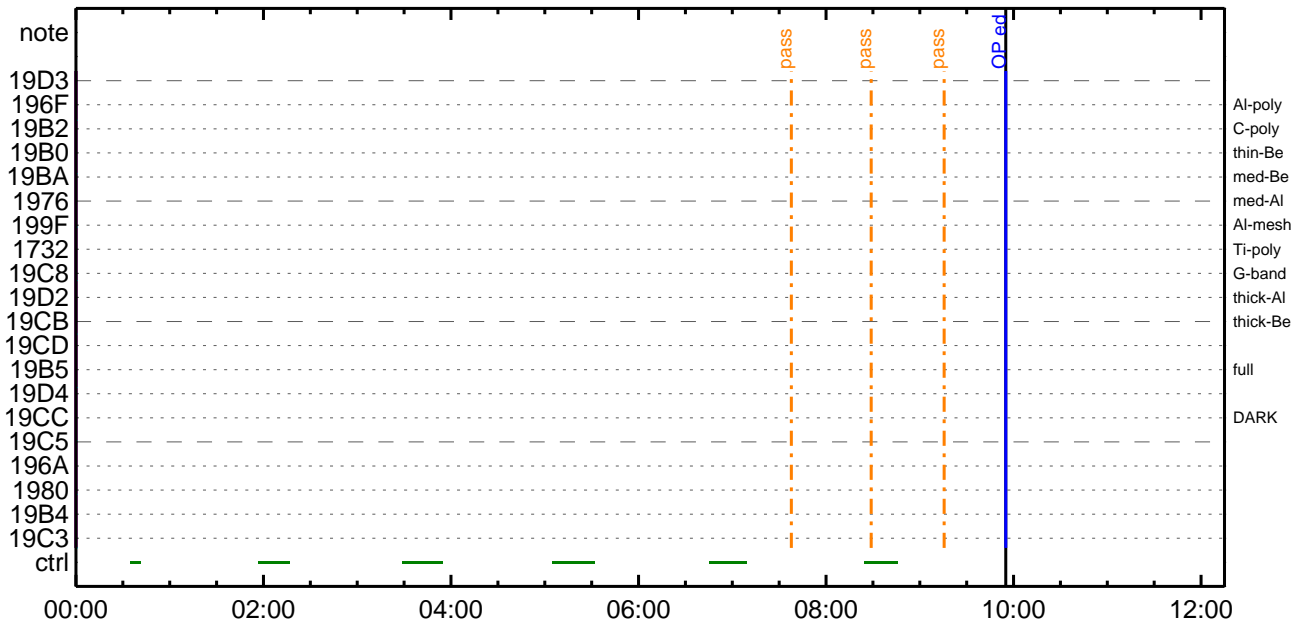
CMDI #0844 2013/10/25



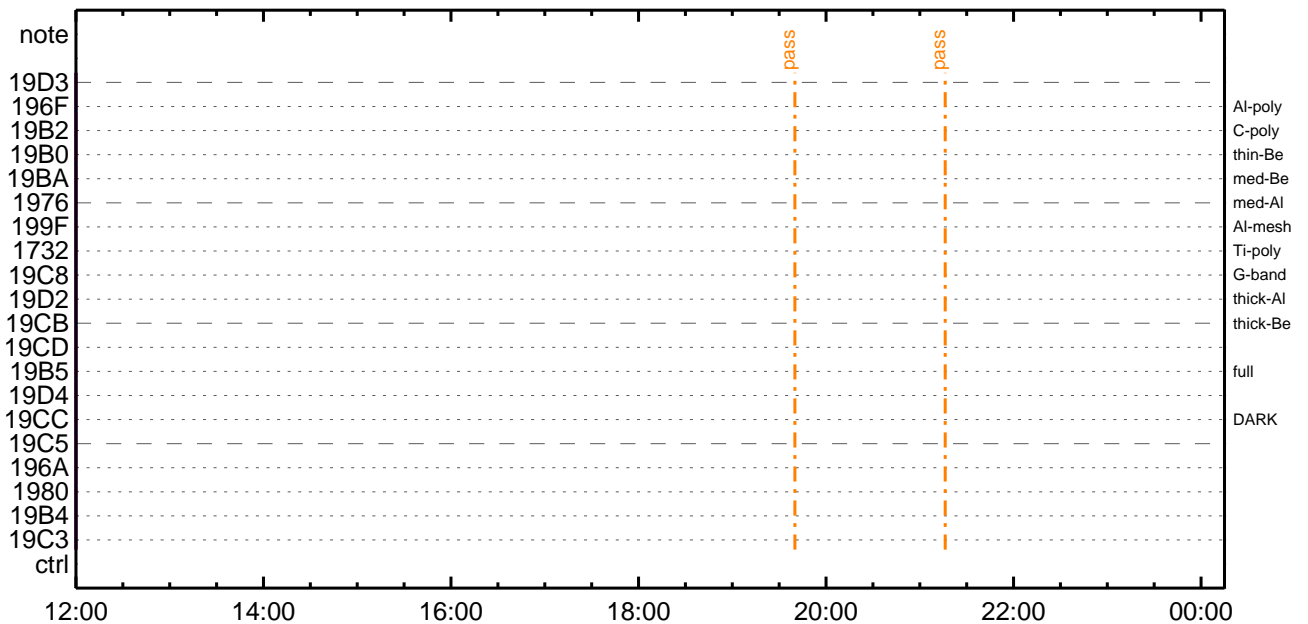
### CMDI #0844 2013/10/25



### CMDI #0844 2013/10/26



### CMDI #0844 2013/10/26







```

0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAY6Yx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-977:OP
0104 ( )
0105 S. OG og-977:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPîî°èYAY6Yx;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. YAY6Yx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î¼E¹ç•è²îOKò³îÇ§
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. YAY6Yx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î¼E¹ç•è²îOKò³îÇ§
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. YAY6Yx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î¼E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** °E²¼òî¼Ã´¶Á°òEÈ¬ò°Á÷¿@ (¼âµ-YAY6Yx½ê½çòðÁÓÆòÇ¼ª°¬òE¼î¹çòÇòâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yî;4YE;Eòðîã¹
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-Á÷¿@NG²î¼î¹ç;ç°E²¼òî¼TI-CMDÁ÷¿@²î¼Á¹Ôª°¬E²ò³òE;f
0180 C. ²²ò¿;çSET²EEDUMP²î¼±°îYNY¹ç¹Ôª|²³òE;f
0181 C.
0182 C. TIY³Y²Y6YEòðÁDî¿(UT)
0183 +. TI 2013-10-21 10:16:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2013-10-21 10:16:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2013-10-21 10:16:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```

```

0194 C.
0195 +. TI 2013-10-21 10:20:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          çç[HK1_TI_CMD_NUM] EQ          1COUNTUP
0198 C.
0199 C. °Ê²¼îÄë%îíñîîŷÄŷ§ŷÄŷ-¹àîŷ
0200 C.          çç[HK1_TI_CMD_ENA/DIS] EQ          ENA
0201 C.          çç[HK1_TI_CMD_NUM] EQ          4
0202 C.          çç[HK1_NEXT_EXEC_PIM] EQ          DHU
0203 C.          çç[HK1_NEXT_EXEC_DC] EQ          0xB3
0204 C.
0205 C. *****
0206 C. TÍîŷ°èŷÄŷÖŷ×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;§ 1024byte)
0210 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211 BC          (03 ab 03 01 02)
0212 C.          çç[HK1_DMP_TOP_ADRS_1] EQ          07
0213 C.          çç[HK1_DMP_TOP_ADRS_0] EQ          2B
0214 C.          çç[HK1_DMP_BLOCK_NUM] EQ          3
0215 C.          çç[HK1_DMP_REPEAT_NUM] EQ          0
0216 C.          çç[HK1_DMA_DMP_PIM] EQ          DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC          (07 0b f8)
0219 C.          çç[HK1_PKT_FORM_NO] EQ          7
0220 C.          çç[HK1_PKT_GEN_TIME] EQ          0.25 s
0221 C.          çç[HK1_S_TLM_BIT_RATE] EQ          32k
0222 C.          çç[HK1_X_TLM_BIT_RATE] EQ          4M
0223 C.          çç[HK1_DMP_CHK_FLG] EQ          EXEC
0224 C.
0225 C. ŷÄŷÖŷ×½¹î»ò³ÍÇ§
0226 C.          çç[HK1_DMP_CHK_FLG] EQ          NON
0227 C.
0228 C. RAM ID=TI_TBLîîŷ°èŷÄŷÖŷ×½¹î»ò³ÍÇ§
0229 C.
0230 C. DHUŷä;¼ŷÉ;Ê¼ŷ¼. ŷî;¼ŷÈ;Ëòðîäî¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC          (02 0a f8)
0233 C.          çç[HK1_PKT_FORM_NO] EQ          2
0234 C.          çç[HK1_PKT_GEN_TIME] EQ          0.5S
0235 C.          çç[HK1_S_TLM_BIT_RATE] EQ          32K
0236 C.          çç[HK1_X_TLM_BIT_RATE] EQ          4M
0237 C.
0238 C. *****
0239 C. SOT TI command set
0240 C. *****
0241 C. Execute, after the success of OP upload.
0242 +. TI 2013-10-21 10:20:16.0
0243 DC 07-F0 MDP_SOT_MODE_STBY
0244 BC          (41)
0245 C. -----
0246 C. HK1_TI_CMD_NUM          = 1 CNTUP [ ]
0247 C. -----
0248 C. ***** SOT END *****
0249 C. Stop EIS observation and temporarily disable EIS mode changes
0250 C.
0251 C.
0252 C. ***** Start EIS operation (TI set) *****
0253 C. Execute, after the success of OP upload.
0254 C. Set EIS TI-commands
0255 +. TI 2013-10-21 10:20:30.0
0256 DC 07-FC EIS_MODE_MANU
0257 BC          (21 02)
0258 +. TI 2013-10-21 10:20:40.0
0259 DC 07-FC EIS_MODE_CHG_DIS
0260 BC          (22)
0261 C.          [ ] [HK1_TI_CMD_NUM] EQ          2 COUNTUP
0262 C. ***** End EIS operation (TI set) *****
0263 C.
0264 C.
0265 C.
0266 C. ***** XRT START *****
0267 C. Execute, after the success of OP upload.
0268 +. TI 2013-10-21 10:20:00.0
0269 DC 07-F0 MDP_XRT_MODE_STBY
0270 BC          (c3)
0271 C.          [ ] [HK1_TI_CMD_NUM] EQ          1COUNTUP
0272 C.
0273 C. ***** XRT END *****
0274 C.
0275 C. ***** MDP `úÄîäî»ö¼ŷ¼î»èDCBC•x²è *****
0276 C. (¼ä°îŷÖŷÄŷÈŷŷŷÄŷçŷèè¼î»¼Ä»ŷò¹è)
0277 S. DC-BC dcbc-402:DCBC
0278 (MDP_known_event)
0279 C.
0280 C.
0281 C. ***** ŷĐŷ¹.İ Daily±çîñîèŷ°ò¹èDCBC•x²è *****
0282 S. DC-BC dcbc-153:DCBC
0283 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 C. ;äLOSŷÄŷ§ŷÄŷ-¼Ä»ŷ;ä
0287 C.
0288 C. ***** LOS *****
0289 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-978 2013-10-21 13:01:32 91 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFÏYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. ÁíÈ¿òÁá•µ°Æ»Í×ÁÇóÍYçYÁY×Yí;¼YÉ;ÈÈè¼µ•íÉ;ÈòÈ¼°ÇÒá•ò¿¼í¹çáÍ;çÀ®, ùá¹òèòòòÇÁ+¿®á•òÈááá³áÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ( )
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCs Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCSDUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. ***** AOCs Commands (Orbital Element Update) *****
0046 C. Update the orbital element
0047 +. DC 02-50 AOCU_ORB_PRPGT_START
0048 BC (16)
0049 +. DC 02-8E AOCU_ORB_UPD
0050 C.
0051 C. <A_ORB>[ORBIT] EPC = 4997644.0 +- 1.0 (s) [ ]
0052 C.
0053 . C.
0054 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0055 +. DC 07-FC EIS_MODE_MANU
0056 BC (21 02)
0057 . C. Verify EIS in MANUAL mode
0058 . C. Estimated OBSTBL upload time is 1m18s
0059 C. *****
0060 C. EIS START OBSTBL LOAD
0061 C. *****
0062 . S. RAM ram-820:EIS_OBSTBL
0063 ( )
0064 +. DC 07-FC EIS_DUMP_OBSTBL
0065 BC (07 07 07 00 00 70 00)
0066 C.
0067 C. Execute, after the success of OBSTBL upload.
0068 C. Set EIS TI-commands
0069 +. TI 2013-10-21 10:20:50.0
0070 DC 07-FC EIS_MODE_CHG_ENA
0071 BC (20)
0072 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0073 C. *****
0074 C. EIS END OBSTBL LOAD
0075 C. *****
0076 C.
0077 . C. ***** MDP `ôÁÏòÍ`ò¼YòÈÁò¹òèDCBC•×²è *****
0078 C. (¼á°íYóYÁYÉYBpYÉYáYçYèò¼¼á»Ûá¹òè)
0079 . S. DC-BC dcbc-402:DCBC
0080 (MDP_known_event)
0081 C.
0082 C.
0083 . C. ***** YDÿ¹.Ï Daily±¿ÍÑòÈ´Øá¹òèDCBC•×²è *****
0084 . S. DC-BC dcbc-153:DCBC
0085 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0086 C.
0087 C.
0088 . C. ;ãLOS YÁY$YÁY~¼Á»Û;ã
0089 C.
0090 . C. ***** LOS *****
0091 C.
```



```

0096 C.
0097 C.
0098 . C. *****
0099 C. SOT table upload
0100 C. *****
0101 . C. < Stop FG table >
0102 +. DC 07-F0 MDP_FG_CTRL_MANU
0103 BC (51)
0104 . C. -----
0105 C. MDP_FG_CTRL_MODE = MANU [ ]
0106 C. -----
0107 C.
0108 . C. <Upload FG Observation Table>
0109 . S. RAM ram-267:MDP_OBS_F
0110 ( )
0111 C.
0112 . C. < Dump RAMID=MDP_OBS_F >
0113 +. DC 07-F0 MDP_DUMP_FGTBL
0114 BC (82 07 00 00 00 38 b8)
0115 C. -----
0116 C. MDP_OBS_F verify = OK/NG [ ]
0117 C. -----
0118 C.
0119 . C. < Upload DPL table >
0120 C.
0121 C. ¥ç¥Ã¥×¥í;¼¥É°âÊSTS_CHKðOFFðËð¹ðë
0122 C.
0123 . S. RAM ram-271:MDP_DPL
0124 ( )
0125 C.
0126 . C. < Dump RAMID=MDP_DPL >
0127 +. DC 07-F0 MDP_DUMP_FGTBL
0128 BC (82 07 00 38 b8 00 40)
0129 C. -----
0130 C. MDP_DPL verify = OK [ ]
0131 C. -----
0132 C.
0133 C. STS_CHKðONðËð¹ðë
0134 C.
0135 . C. < Update MDP DSC PAR1 >
0136 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0137 BC (4c)
0138 C. MDP_CMD_CODE = F04C0700[ ]
0139 C. MDP_CMD_CNT (count-up 1) [ ]
0140 C. -----
0141 C.
0142 . C.
0143 C. *****
0144 C. SOT TI command set
0145 C. *****
0146 C. Execute, after the success of TBL upload.
0147 +. TI 2013-10-21 10:20:18.0
0148 DC 07-F0 MDP_SOT_MODE_OBSV
0149 BC (40)
0150 . C. -----
0151 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0152 C. -----
0153 C.
0154 C.
0155 C. ***** XRT START *****
0156 C.
0157 +. DC 07-F0 MDP_XRT_CTRL_MANU
0158 BC (c1)
0159 + DC 07-F0 MDP_XRT_MODE_STBY
0160 BC (c3)
0161 . C. ----- Success Verify ? OK / NG_____
0162 C.
0163 C. XRT Obs. Table Upload
0164 . S. RAM ram-291:MDP_OBS_X
0165 ( )
0166 C.
0167 +. DC 07-F0 MDP_DUMP_XRTTBL
0168 BC (84 07 00 00 00 3a d4)
0169 . C. ----- Comparison Check ? OK / ERR _____
0170 C.
0171 C.
0172 +. DC 07-F0 MDP_XRT_ROI_SET
0173 BC (cd 01 b1 b1 04 04)
0174 + DC 07-F0 MDP_XRT_ROI_SET
0175 BC (cd 02 b1 b1 08 08)
0176 + DC 07-F0 MDP_XRT_ROI_SET
0177 BC (cd 03 b1 b1 08 08)
0178 + DC 07-F0 MDP_XRT_ROI_SET
0179 BC (cd 04 b1 b1 06 06)
0180 + DC 07-F0 MDP_XRT_ROI_SET
0181 BC (cd 05 85 83 06 06)
0182 + DC 07-F0 MDP_XRT_ROI_SET
0183 BC (cd 06 85 83 06 06)
0184 + DC 07-F0 MDP_XRT_ROI_SET
0185 BC (cd 07 85 83 08 08)
0186 + DC 07-F0 MDP_XRT_ROI_SET
0187 BC (cd 08 80 80 20 20)
0188 + DC 07-F0 MDP_XRT_ROI_SET
0189 BC (cd 09 80 80 20 08)
0190 + DC 07-F0 MDP_XRT_ROI_SET
0191 BC (cd 0a 80 80 08 20)
0192 + DC 07-F0 MDP_XRT_ROI_SET
0193 BC (cd 0f 80 80 06 06)

```

```
0194 + DC 07-F0 MDP_XRT_ROI_SET
0195 BC (cd 10 80 80 08 08)
0196 + DC 07-F0 MDP_XRT_FLD_ENA
0197 BC (d8)
0198 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0199 BC (c8)
0200 + DC 07-F0 MDP_XRT_AEC_RESET
0201 BC (d0)
0202 + DC 07-F0 MDP_XRT_ARS_DIS
0203 BC (d5)
0204 + DC 07-F0 MDP_XRT_FLD_RESET
0205 BC (da)
0206 + DC 07-F0 MDP_XRT_QT_PROG_SET
0207 BC (c4 06)
0208 + DC 07-F0 MDP_XRT_FL_PROG_SET
0209 BC (c5 0c)
0210 . C. ----- Success Verify ? OK / NG ____
0211 C.
0212 C.
0213 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0214 C.
0215 +. DC 07-F0 MDP_XRT_MODE_OBSV
0216 BC (c2)
0217 +. TI 2013-10-21 10:20:02.0
0218 DC 07-F0 MDP_XRT_MODE_OBSV
0219 BC (c2)
0220 . C. ----- Success Verify ? OK / NG ____
0221 C.
0222 C. ***** XRT END *****
0223 C.
0224 . C. ***** MDP `úÃîñî»ö%ÝñÊÃðñ¹ñèDCBC•x²è *****
0225 C. (%Á°îÝÓÝÃÝÈÝÞÝËÝáÝçÝèñÊ%¼ñ¼Ã»Ûñ¹ñè)
0226 . S. DC-BC dcbc-402:DCBC
0227 (MDP_known_event)
0228 C.
0229 C.
0230 . C. ***** ¥ÐÝ¹•Ï Daily±¿ÍÑñÊ´Øñ¹ñèDCBC•x²è *****
0231 . S. DC-BC dcbc-153:DCBC
0232 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0233 C.
0234 C.
0235 . C. ¡ãLOS¥Á¥$¥Ã¥¬¼Ã»Û;ã
0236 C.
0237 . C. ***** LOS *****
0238 C.
```

Oct 21, 13 13:02

XRT\_OGLIST\_0844.chk

Page 1/6

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

|            |            |                                      |   |       |    |    |    |    |    |    |
|------------|------------|--------------------------------------|---|-------|----|----|----|----|----|----|
| 2013/10/21 | 10:31:00.0 | AOCS_ORe-point_Start_1_OG [0x097]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 00 | 00 | 00 | ac | cd |
| 2013/10/21 | 11:01:00.0 | AOCS_ORe-point_Start_2_OG [0x098]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 00 | 00 | 00 | d6 | 67 |
| 2013/10/21 | 11:16:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |    |
| 2013/10/21 | 11:16:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]    |   |       |    |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 | ff | aa | 00 |    |    |
| 2013/10/21 | 11:17:00.0 | AOCS_ORe-point_Start_3_OG [0x099]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 | 00 |
| 2013/10/21 | 11:17:16.0 | XRT_FLD_DIS_434_OG [0x1b2]           |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9 |    |    |    |    |    |
| 2013/10/21 | 11:19:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9 |    |    |    |    |    |
| 2013/10/21 | 11:19:56.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5 |    |    |    |    |    |
| 2013/10/21 | 11:19:58.0 | XRT_QT_PROG_SET_420_OG [0x1a4]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 | 0e |    |    |    |    |
| 2013/10/21 | 11:20:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |    |
| 2013/10/21 | 11:33:00.0 | AOCS_ORe-point_Start_4_OG [0x09a]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 00 | 00 | 00 | 29 | 99 |
| 2013/10/21 | 11:49:00.0 | AOCS_ORe-point_Start_5_OG [0x09b]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 00 | 00 | 00 | 53 | 33 |
| 2013/10/21 | 12:05:00.0 | AOCS_ORe-point_Start_6_OG [0x09c]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | d6 | 36 | b7 | 8e |    |
| 2013/10/21 | 12:15:00.0 | AOCS_ORe-point_Start_7_OG [0x09d]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | b4 | b5 | db | 75 |    |
| 2013/10/21 | 12:31:00.0 | AOCS_ORe-point_Start_8_OG [0x09e]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | ac | 5b | 00 | 00 |    |
| 2013/10/21 | 12:47:00.0 | AOCS_ORe-point_Start_9_OG [0x09f]    |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | b4 | b5 | 24 | 8b |    |
| 2013/10/21 | 13:03:00.0 | AOCS_ORe-point_Start_10_OG [0x0a0]   |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | d6 | 36 | 48 | 72 |    |
| 2013/10/21 | 13:13:00.0 | AOCS_ORe-point_Start_11_OG [0x0a1]   |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 29 | ca | b7 | 8e |    |
| 2013/10/21 | 13:23:00.0 | AOCS_ORe-point_Start_12_OG [0x0a2]   |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 4b | 4b | db | 75 |    |
| 2013/10/21 | 13:39:00.0 | AOCS_ORe-point_Start_13_OG [0x0a3]   |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 53 | a5 | 00 | 00 |    |
| 2013/10/21 | 14:20:00.0 | AOCS_ORe-point_Start_14_OG [0x0a4]   |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 4b | 4b | 24 | 8b |    |
| 2013/10/21 | 14:36:00.0 | AOCS_ORe-point_Start_15_OG [0x0a5]   |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 29 | db | 48 | 72 |    |
| 2013/10/21 | 14:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |    |
| 2013/10/21 | 14:59:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]    |   |       |    |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 | fe | 97 | 00 |    |    |
| 2013/10/21 | 15:00:00.0 | AOCS_ORe-point_Start_16_OG [0x0a6]   |   |       |    |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 04 | 00 | 00 | 00 | 00 | 00 |
| 2013/10/21 | 15:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8 |    |    |    |    |    |
| 2013/10/21 | 15:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8 |    |    |    |    |    |
| 2013/10/21 | 15:00:20.0 | XRT_AEC_RESET_413_OG [0x19d]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0 |    |    |    |    |    |
| 2013/10/21 | 15:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]           |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5 |    |    |    |    |    |
| 2013/10/21 | 15:00:24.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da |    |    |    |    |    |
| 2013/10/21 | 15:00:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 | 11 |    |    |    |    |
| 2013/10/21 | 15:02:58.0 | XRT_FL_PROG_SET_443_OG [0x1bb]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 | 0c |    |    |    |    |
| 2013/10/21 | 15:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |    |
| 2013/10/21 | 15:40:30.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |    |
| 2013/10/21 | 15:40:32.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da |    |    |    |    |    |
| 2013/10/21 | 15:40:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8 |    |    |    |    |    |
| 2013/10/21 | 15:43:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9 |    |    |    |    |    |
| 2013/10/21 | 16:04:00.0 | XRT_Custom_430_OG [0x1ae]            |   |       |    |    |    |    |    |    |
| 2013/10/21 | 16:05:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |    |
| 2013/10/21 | 17:17:00.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |    |
| 2013/10/21 | 17:17:02.0 | XRT_FLD_RESET_415_OG [0x19f]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da |    |    |    |    |    |
| 2013/10/21 | 17:17:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STRT                  | 1 | 07-F0 | e8 |    |    |    |    |    |
| 2013/10/21 | 17:20:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]       |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_PREFLR_STOP                  | 1 | 07-F0 | e9 |    |    |    |    |    |
| 2013/10/21 | 17:40:30.0 | XRT_Custom_430_OG [0x1ae]            |   |       |    |    |    |    |    |    |
| 2013/10/21 | 17:41:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |    |
| 2013/10/21 | 17:57:54.0 | XRT_CTRL_MANU_402_OG [0x192]         |   |       |    |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |    |
| 2013/10/21 | 17:57:56.0 | XRT_FOCUS_RECALIBRATE_433_OG [0x1b1] |   |       |    |    |    |    |    |    |

Oct 21, 13 13:02

## XRT\_OGLIST\_0844.chk

Page 2/6

|            |            |                                    |                     |   |       |    |             |
|------------|------------|------------------------------------|---------------------|---|-------|----|-------------|
| 2013/10/21 | 17:58:00.0 | AOCS_OrE-point_Start_3_OG [0x099]  | XRT_FOCUS_RECAL     | 2 | 07-F8 | 78 | 00          |
|            |            |                                    | AOCU_NM             | 5 | 02-76 | 00 | 00 00 00 00 |
| 2013/10/21 | 18:01:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff aa 00    |
| 2013/10/21 | 18:02:16.0 | XRT_FLD_DIS_436_OG [0x1b4]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |             |
| 2013/10/21 | 18:02:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |             |
| 2013/10/21 | 18:02:56.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2013/10/21 | 18:02:58.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 08          |
| 2013/10/21 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2013/10/21 | 18:07:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2013/10/21 | 18:07:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe 97 00    |
| 2013/10/21 | 18:08:00.0 | AOCS_OrE-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 04 | 00 00 00 00 |
| 2013/10/21 | 18:08:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |             |
| 2013/10/21 | 18:08:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |             |
| 2013/10/21 | 18:08:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0 |             |
| 2013/10/21 | 18:08:22.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |             |
| 2013/10/21 | 18:08:24.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2013/10/21 | 18:08:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 11          |
| 2013/10/21 | 18:10:58.0 | XRT_FL_PROG_SET_443_OG [0x1bb]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 0c          |
| 2013/10/21 | 18:11:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2013/10/21 | 18:54:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2013/10/21 | 18:54:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2013/10/21 | 18:54:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2013/10/21 | 18:57:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2013/10/21 | 19:17:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2013/10/21 | 19:18:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2013/10/21 | 20:31:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2013/10/21 | 20:31:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2013/10/21 | 20:31:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2013/10/21 | 20:34:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2013/10/21 | 20:54:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2013/10/21 | 20:55:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2013/10/21 | 22:08:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2013/10/21 | 22:08:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2013/10/21 | 22:08:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2013/10/21 | 22:11:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2013/10/21 | 22:30:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2013/10/21 | 22:31:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2013/10/21 | 23:46:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2013/10/21 | 23:46:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2013/10/21 | 23:46:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2013/10/21 | 23:49:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2013/10/21 | 23:55:30.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2013/10/21 | 23:56:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2013/10/22 | 01:11:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |             |
| 2013/10/22 | 01:11:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |             |
| 2013/10/22 | 01:11:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |             |
| 2013/10/22 | 01:14:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |             |
| 2013/10/22 | 01:29:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |    |             |
| 2013/10/22 | 01:30:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |             |
| 2013/10/22 | 02:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |                     |   |       |    |             |



Oct 21, 13 13:02

## XRT\_OGLIST\_0844.chk

Page 3/6

|            |            |                                    |                                    |   |       |                |  |  |  |  |
|------------|------------|------------------------------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2013/10/22 | 02:45:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 02:45:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 02:48:14.0 | XRT_CUSTOM_430_OG [0x1ae]          | XRT_CUSTOM_430_OG [0x1ae]          |   |       |                |  |  |  |  |
|            |            |                                    | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
| 2013/10/22 | 03:05:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 04:14:00.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/22 | 04:14:02.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 04:17:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
|            |            |                                    | XRT_CUSTOM_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/10/22 | 04:43:00.0 | XRT_CUSTOM_430_OG [0x1ae]          | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 04:44:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 05:54:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 05:54:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/22 | 05:54:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 05:57:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
|            |            |                                    | XRT_CUSTOM_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/10/22 | 06:20:30.0 | XRT_CUSTOM_430_OG [0x1ae]          | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 06:21:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 06:30:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | XRT_FOCUS_POSITION_403_OG [0x193]  |   |       |                |  |  |  |  |
| 2013/10/22 | 06:30:26.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
|            |            |                                    | AOCs_OrE-point_Start_3_OG [0x099]  |   |       |                |  |  |  |  |
| 2013/10/22 | 06:30:30.0 | AOCs_OrE-point_Start_3_OG [0x099]  | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
|            |            |                                    | XRT_FLD_DIS_434_OG [0x1b2]         |   |       |                |  |  |  |  |
| 2013/10/22 | 06:30:46.0 | XRT_FLD_DIS_434_OG [0x1b2]         | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | d9             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |  |  |  |  |
| 2013/10/22 | 06:33:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | c9             |  |  |  |  |
|            |            |                                    | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/10/22 | 06:33:26.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
|            |            |                                    | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 08          |  |  |  |  |
| 2013/10/22 | 06:33:28.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 08          |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 06:33:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 06:40:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | XRT_FOCUS_POSITION_410_OG [0x19a]  |   |       |                |  |  |  |  |
| 2013/10/22 | 06:40:26.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
|            |            |                                    | AOCs_OrE-point_Start_17_OG [0x0a7] |   |       |                |  |  |  |  |
| 2013/10/22 | 06:40:30.0 | AOCs_OrE-point_Start_17_OG [0x0a7] | AOCU_NM                            | 5 | 02-76 | 00 12 66 53 8d |  |  |  |  |
|            |            |                                    | XRT_FLD_ENA_411_OG [0x19b]         |   |       |                |  |  |  |  |
| 2013/10/22 | 06:40:46.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA                    | 1 | 07-F0 | d8             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
| 2013/10/22 | 06:40:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA                | 1 | 07-F0 | c8             |  |  |  |  |
|            |            |                                    | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
| 2013/10/22 | 06:40:50.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET                  | 1 | 07-F0 | d0             |  |  |  |  |
|            |            |                                    | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/10/22 | 06:40:52.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | d5             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 06:40:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
|            |            |                                    | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2013/10/22 | 06:40:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]     | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 12          |  |  |  |  |
|            |            |                                    | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0c          |  |  |  |  |
| 2013/10/22 | 06:43:28.0 | XRT_FL_PROG_SET_443_OG [0x1bb]     | MDP_XRT_FL_PROG_SET                | 2 | 07-F0 | c5 0c          |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 06:43:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 07:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 07:35:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/22 | 07:35:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 07:38:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
|            |            |                                    | XRT_CUSTOM_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/10/22 | 07:57:30.0 | XRT_CUSTOM_430_OG [0x1ae]          | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 07:58:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 09:14:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 09:14:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/22 | 09:14:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
|            |            |                                    | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 09:17:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
|            |            |                                    | XRT_CUSTOM_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/10/22 | 09:33:00.0 | XRT_CUSTOM_430_OG [0x1ae]          | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 09:34:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
|            |            |                                    | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 09:40:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |

Oct 21, 13 13:02

## XRT\_OGLIST\_0844.chk

Page 4/6

|            |            |                                    |                     |   |       |                |  |
|------------|------------|------------------------------------|---------------------|---|-------|----------------|--|
| 2013/10/22 | 09:40:26.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
|            |            | XRT_FOCUS_POSITION                 |                     | 4 | 07-F8 | 22 fe 97 00    |  |
| 2013/10/22 | 09:40:30.0 | AOCs_OrE-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |  |
| 2013/10/22 | 09:40:46.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2013/10/22 | 09:40:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2013/10/22 | 09:40:50.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2013/10/22 | 09:40:52.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2013/10/22 | 09:40:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/10/22 | 09:40:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |  |
| 2013/10/22 | 09:43:28.0 | XRT_FL_PROG_SET_443_OG [0x1bb]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0c          |  |
| 2013/10/22 | 09:43:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/10/22 | 14:41:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/10/22 | 14:41:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/10/22 | 14:41:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/10/22 | 14:44:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/10/22 | 14:53:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |                |  |
| 2013/10/22 | 14:54:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/10/22 | 16:16:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/10/22 | 16:16:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/10/22 | 16:16:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/10/22 | 16:19:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/10/22 | 16:40:00.0 | XRT_Custom_430_OG [0x1ae]          |                     |   |       |                |  |
| 2013/10/22 | 16:41:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/10/22 | 17:53:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/10/22 | 17:53:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/10/22 | 17:53:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |
| 2013/10/22 | 17:56:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |
| 2013/10/22 | 18:16:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/10/22 | 18:16:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |
| 2013/10/22 | 18:17:00.0 | AOCs_OrE-point_Start_3_OG [0x099]  | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |
| 2013/10/22 | 18:17:16.0 | XRT_FLD_DIS_434_OG [0x1b2]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |
| 2013/10/22 | 18:19:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |
| 2013/10/22 | 18:19:56.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2013/10/22 | 18:19:58.0 | XRT_QT_PROG_SET_444_OG [0x1bc]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 08          |  |
| 2013/10/22 | 18:20:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/10/22 | 18:26:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/10/22 | 18:26:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |
| 2013/10/22 | 18:27:00.0 | AOCs_OrE-point_Start_16_OG [0x0a6] | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |  |
| 2013/10/22 | 18:27:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |
| 2013/10/22 | 18:27:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |
| 2013/10/22 | 18:27:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |
| 2013/10/22 | 18:27:22.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |
| 2013/10/22 | 18:27:24.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |
| 2013/10/22 | 18:27:26.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11          |  |
| 2013/10/22 | 18:29:58.0 | XRT_FL_PROG_SET_443_OG [0x1bb]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0c          |  |
| 2013/10/22 | 18:30:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |
| 2013/10/22 | 19:30:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |
| 2013/10/22 | 19:30:32.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |

Oct 21, 13 13:02

## XRT\_OGLIST\_0844.chk

Page 5/6

|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2013/10/22 | 19:30:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/22 | 19:33:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 19:54:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/10/22 | 19:55:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 21:07:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 21:07:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 21:07:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/22 | 21:10:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 21:31:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/10/22 | 21:32:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/22 | 22:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/22 | 22:45:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/22 | 22:45:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/22 | 22:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/22 | 23:05:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/10/22 | 23:06:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/23 | 00:22:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/23 | 00:22:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/23 | 00:22:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/23 | 00:25:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/23 | 00:29:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/10/23 | 00:30:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/23 | 01:45:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/23 | 01:45:32.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/23 | 01:45:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/23 | 01:48:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/23 | 02:05:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/10/23 | 02:06:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/23 | 03:20:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/23 | 03:20:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/23 | 03:20:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/23 | 03:23:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/23 | 03:42:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/10/23 | 03:43:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/23 | 04:52:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/23 | 04:52:02.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |  |  |  |
| 2013/10/23 | 04:52:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/10/23 | 04:55:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/10/23 | 05:19:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2013/10/23 | 05:20:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/23 | 06:02:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/23 | 06:02:26.0 | XRT_FOCUS_POSITION_403_OG [0x193] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2013/10/23 | 06:02:30.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2013/10/23 | 06:02:46.0 | XRT_FLD_DIS_434_OG [0x1b2]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2013/10/23 | 06:05:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2013/10/23 | 06:05:26.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/10/23 | 06:05:28.0 | XRT_QT_PROG_SET_444_OG [0x1bc]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 08          |  |  |  |  |
| 2013/10/23 | 06:05:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/10/23 | 06:12:24.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/10/23 | 06:12:26.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |

Oct 21, 13 13:02

## XRT\_OGLIST\_0844.chk

Page 6/6

|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2013/10/23 | 06:12:30.0 | AOCS_ORe-point_Start_16_OG [0x0a6]<br>AOCU_NM                   | 5 | 02-76 | 04 00 00 00 00 |
| 2013/10/23 | 06:12:46.0 | XRT_FLD_ENA_411_OG [0x19b]<br>MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2013/10/23 | 06:12:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]<br>MDP_XRT_FLRCTRL_ENA           | 1 | 07-F0 | c8             |
| 2013/10/23 | 06:12:50.0 | XRT_AEC_RESET_413_OG [0x19d]<br>MDP_XRT_AEC_RESET               | 1 | 07-F0 | d0             |
| 2013/10/23 | 06:12:52.0 | XRT_ARS_DIS_423_OG [0x1a7]<br>MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2013/10/23 | 06:12:54.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET               | 1 | 07-F0 | da             |
| 2013/10/23 | 06:12:56.0 | XRT_QT_PROG_SET_447_OG [0x1bf]<br>MDP_XRT_QT_PROG_SET           | 2 | 07-F0 | c4 12          |
| 2013/10/23 | 06:15:28.0 | XRT_FL_PROG_SET_443_OG [0x1bb]<br>MDP_XRT_FL_PROG_SET           | 2 | 07-F0 | c5 0c          |
| 2013/10/23 | 06:15:30.0 | XRT_CTRL_AUTO_408_OG [0x198]<br>MDP_XRT_CTRL_AUTO               | 1 | 07-F0 | c0             |
| 2013/10/23 | 06:32:30.0 | XRT_CTRL_MANU_400_OG [0x190]<br>MDP_XRT_CTRL_MANU               | 1 | 07-F0 | c1             |
| 2013/10/23 | 06:32:32.0 | XRT_FLD_RESET_415_OG [0x19f]<br>MDP_XRT_FLD_RESET               | 1 | 07-F0 | da             |
| 2013/10/23 | 06:32:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]<br>MDP_XRT_PREFLR_STRT           | 1 | 07-F0 | e8             |
| 2013/10/23 | 06:35:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]<br>MDP_XRT_PREFLR_STOP           | 1 | 07-F0 | e9             |
| 2013/10/23 | 06:58:05.0 | XRT_CTRL_MANU_402_OG [0x192]<br>MDP_XRT_CTRL_MANU               | 1 | 07-F0 | c1             |
| 2013/10/23 | 07:00:00.0 | XRT_TCIB_XRT_S_HTR_A_ENA_432_OG [0x1b0]<br>TCIB_XRT_S_HTR_A_ENA | 0 | 04-BC |                |
| 2013/10/23 | 08:40:00.0 | AOCS_ORe-point_Start_18_OG [0x0a8]<br>AOCU_NM                   | 5 | 02-76 | 00 55 ca 01 58 |
| 2013/10/23 | 09:10:00.0 | AOCS_ORe-point_Start_19_OG [0x0a9]<br>AOCU_NM                   | 5 | 02-76 | 00 4c e5 01 58 |
| 2013/10/23 | 10:10:00.0 | AOCS_ORe-point_Start_20_OG [0x0aa]<br>AOCU_NM                   | 5 | 02-76 | 00 43 ff 01 58 |
| 2013/10/23 | 10:40:00.0 | AOCS_ORe-point_Start_21_OG [0x0ab]<br>AOCU_NM                   | 5 | 02-76 | 00 3b 1a 01 58 |
| 2013/10/23 | 11:10:00.0 | AOCS_ORe-point_Start_22_OG [0x0ac]<br>AOCU_NM                   | 5 | 02-76 | 00 32 35 01 58 |
| 2013/10/23 | 11:40:00.0 | AOCS_ORe-point_Start_23_OG [0x0ad]<br>AOCU_NM                   | 5 | 02-76 | 00 29 58 01 58 |
| 2013/10/23 | 12:10:00.0 | AOCS_ORe-point_Start_24_OG [0x0ae]<br>AOCU_NM                   | 5 | 02-76 | 00 20 72 01 58 |
| 2013/10/23 | 12:40:00.0 | AOCS_ORe-point_Start_25_OG [0x0af]<br>AOCU_NM                   | 5 | 02-76 | 00 17 8d 01 58 |
| 2013/10/23 | 13:10:00.0 | AOCS_ORe-point_Start_26_OG [0x0b0]<br>AOCU_NM                   | 5 | 02-76 | 00 0e a7 01 58 |
| 2013/10/23 | 13:40:00.0 | AOCS_ORe-point_Start_27_OG [0x0b1]<br>AOCU_NM                   | 5 | 02-76 | 00 05 ca 01 58 |
| 2013/10/23 | 14:10:00.0 | AOCS_ORe-point_Start_28_OG [0x0b2]<br>AOCU_NM                   | 5 | 02-76 | 00 fd cb 01 58 |
| 2013/10/23 | 14:40:00.0 | AOCS_ORe-point_Start_29_OG [0x0b3]<br>AOCU_NM                   | 5 | 02-76 | 00 f4 e6 01 58 |
| 2013/10/23 | 15:40:00.0 | AOCS_ORe-point_Start_30_OG [0x0b4]<br>AOCU_NM                   | 5 | 02-76 | 00 ec 00 01 58 |
| 2013/10/23 | 16:10:00.0 | AOCS_ORe-point_Start_31_OG [0x0b5]<br>AOCU_NM                   | 5 | 02-76 | 00 e3 1b 01 58 |
| 2013/10/23 | 17:20:00.0 | AOCS_ORe-point_Start_32_OG [0x0b6]<br>AOCU_NM                   | 5 | 02-76 | 00 da 36 01 58 |
| 2013/10/23 | 17:50:00.0 | AOCS_ORe-point_Start_33_OG [0x0b7]<br>AOCU_NM                   | 5 | 02-76 | 00 d1 59 01 58 |
| 2013/10/23 | 19:00:00.0 | AOCS_ORe-point_Start_34_OG [0x0b8]<br>AOCU_NM                   | 5 | 02-76 | 00 c8 73 01 58 |
| 2013/10/23 | 19:30:00.0 | AOCS_ORe-point_Start_35_OG [0x0b9]<br>AOCU_NM                   | 5 | 02-76 | 00 bf 8e 01 58 |
| 2013/10/23 | 20:35:00.0 | AOCS_ORe-point_Start_36_OG [0x0ba]<br>AOCU_NM                   | 5 | 02-76 | 00 b6 a8 01 58 |
| 2013/10/23 | 21:05:00.0 | AOCS_ORe-point_Start_37_OG [0x0bb]<br>AOCU_NM                   | 5 | 02-76 | 00 ad cb 01 58 |
| 2013/10/23 | 21:35:00.0 | AOCS_ORe-point_Start_16_OG [0x0a6]<br>AOCU_NM                   | 5 | 02-76 | 04 00 00 00 00 |
| 2013/10/24 | 10:29:00.5 | AOCS_ORe-point_Start_3_OG [0x099]<br>AOCU_NM                    | 5 | 02-76 | 00 00 00 00 00 |