

# XRT Timeline to be uploaded on 2009/08/15

Period: 2009/08/15 10:12:00 - 2009/08/20 10:02:00

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Normal mode

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XOB #16F1: HOP 126 (Ti/poly fov256x256 exp23s 60s-cadence)													
Term	Pointing (x, y)		Comment										
08/15 10:25:00 - 08/15 11:59:54	Track (	11.6, -10.0)	# OP start + 10min, HOP126										
08/16 08:00:30 - 08/16 12:17:00	Track (	-26.9, -10.0)	Wavelength scan by SOT + HOP126 + QS study by EIS										
08/17 08:00:00 - 08/17 11:59:54	Track (	-23.5, -9.9)	HOP126										
08/18 08:34:30 - 08/18 09:43:30	Track (	-27.6, -9.9)	HOP126										
PROG= 20 Inf.-time(s)													
└ Subr= 1 1-time(s) 52.5sec													
└ Seqn= 74 1-time(s) 4.0sec													
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	22.6s	Obs	1x1	256x256 (1024, 1024)	Q=90	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #16F6: CH Jets - C/poly - 23s exp - FOV384													
Term	Pointing (x, y)		Comment										
08/15 12:03:00 - 08/15 17:42:24	Fixed (	0.0, 930.0)	Polar jet study (XRT & EIS)										
08/15 17:55:30 - 08/15 23:59:54	Fixed (	0.0, 930.0)	Polar jet study (cont.)										
08/16 18:16:00 - 08/17 02:36:00	Fixed (	0.0, 930.0)	Polar jet study (cont.)										
PROG= 14 Inf.-time(s)													
└ Subr= 1 1-time(s) 32.0sec													
└ Seqn= 96 1-time(s) 2.0sec													
	C-poly/Open	C-poly/Open	close	Safe	Norm	22.6s	Obs	1x1	384x384 (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 #16D9: Synoptic Q95 2x2 - Al/poly(512/5795) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 2048x512 -1x1 512x2048) +Ti-poly(723/11571) + G-band(1													
Term	Pointing (x, y)		Comment										
08/15 17:45:30 - 08/15 17:52:24	Fixed (	0.0, 0.0)	synoptic, shifted -17.5 min										
08/16 18:06:00 - 08/16 18:12:54	Fixed (	0.0, 0.0)	synoptic, shifted 3.0 min										
08/17 18:11:30 - 08/17 18:18:24	Fixed (	0.0, 0.0)	synoptic, shifted 8.5 min										
PROG= 01 1-time(s)													
└ Subr= 1 1-time(s) 12.0sec													
└ Seqn= 36 1-time(s) 4.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└ Seqn= 85 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= 88 1-time(s) 4.0sec													
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	707ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└ Seqn= 92 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	16ms	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 #16EA: HOP128 AR-dynamics -384x384 - Al/poly (AEC1)													
Term	Pointing (x, y)		Comment										
08/16 00:03:00 - 08/16 05:59:54	Fixed (	-944.0, -10.0)	HOP128										
PROG= 10 Inf.-time(s)													
└ Subr= 1 1-time(s) 30.0sec													
└ Seqn= 11 1-time(s) 2.0sec													
	Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	8.00s	Obs	1x1	384x384 (1024, 1024)	DPCM	1	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #16D8: Synoptic Q95 2x2 - Al/mesh(512/5795) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 2048x512 -1x1 512x2048) +Ti-poly(723/11571) + G-band(1													
Term	Pointing (x, y)		Comment										
08/16 06:03:00 - 08/16 06:09:54	Fixed (	0.0, 0.0)	synoptic										
08/17 06:25:00 - 08/17 06:31:54	Fixed (	0.0, 0.0)	synoptic, shifted 22.0 min										
08/18 05:58:30 - 08/18 06:05:24	Fixed (	0.0, 0.0)	synoptic, shifted -4.5 min										
PROG= 19 1-time(s)													
└ Subr= 1 1-time(s) 12.0sec													
└ Seqn= 47 1-time(s) 4.0sec													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└ Seqn= 85 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= 88</b>			<b>1-time(s)</b>		<b>4.0sec</b>							
┌	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	707ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└	<b>Seqn= 92</b>			<b>1-time(s)</b>		<b>2.0sec</b>							
┌	Open/G-band	Open/G-band	open	Safe	Norm	16ms	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 #16C0: XBP C/poly (AEC1) Thin-Be (AEC0)-FOV384-90s**

Term	Pointing (x, y)	Comment											
08/16 12:31:36 - 08/16 18:02:54	Track ( -26.9, -10.0) @ 08/16 06:10:00	Wavelength scan by SOT + HOP126 + QS study by EIS											
<b>PROG= 02 Inf.-time(s)</b>													
┌	<b>Subr= 1</b>												
└	<b>1-time(s)</b>												
└	<b>90.0sec</b>												
┌	<b>Seqn= 75</b>												
└	<b>1-time(s)</b>												
└	<b>2.0sec</b>												
┌	C-poly/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	1x1	384x384 (1024, 1024)	DPCM	1	0	2.0sec
└	thin-Be/Open	med-Be/Open	close	Safe	Norm	22.6s	Obs	1x1	384x384 (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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NOT USED

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**Active Region Search**

\* \* \* \* \*

NOT USED

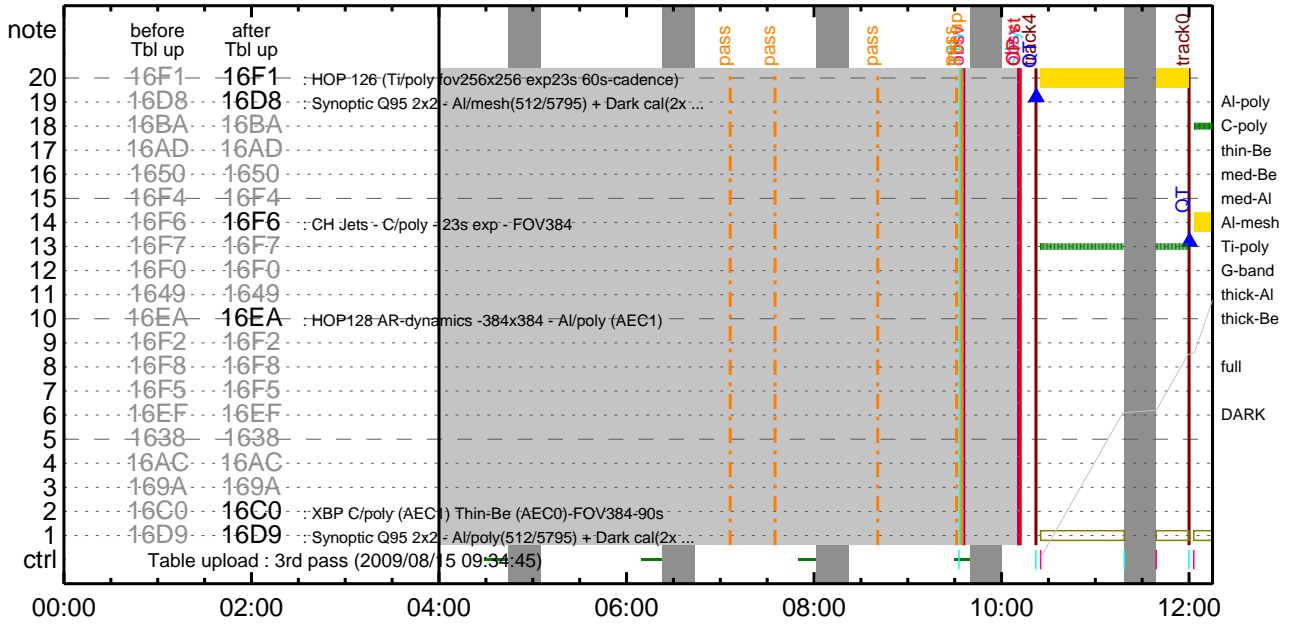
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**Flare Detection**

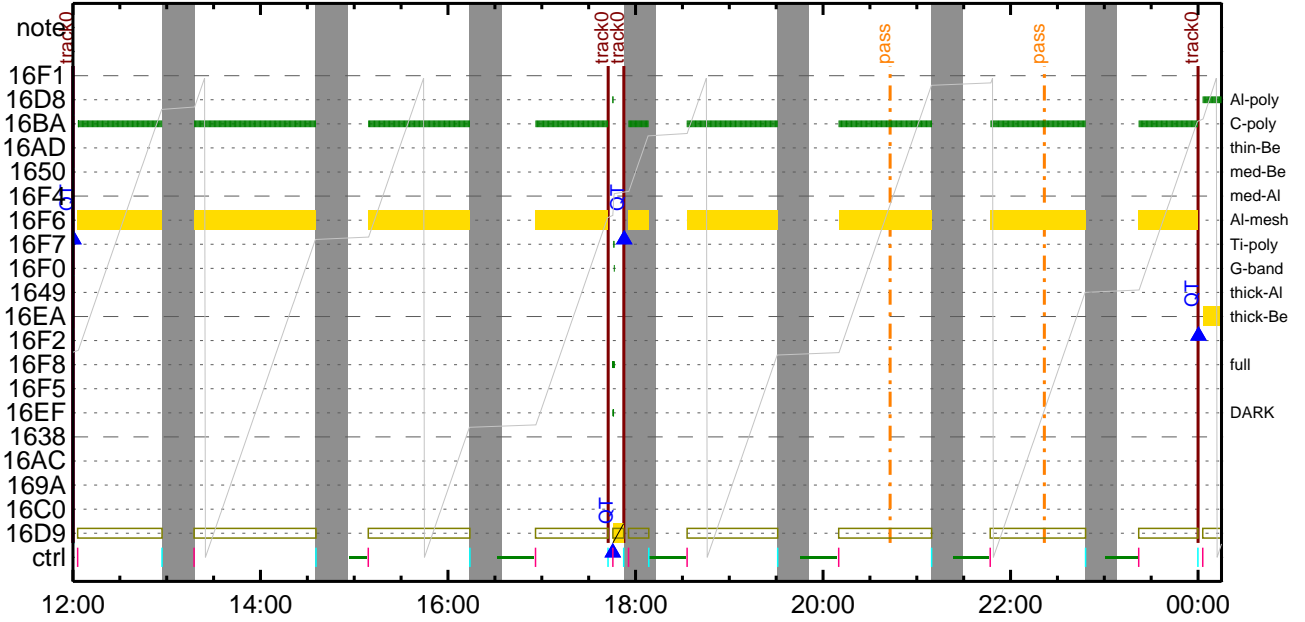
\* \* \* \* \*

NOT USED

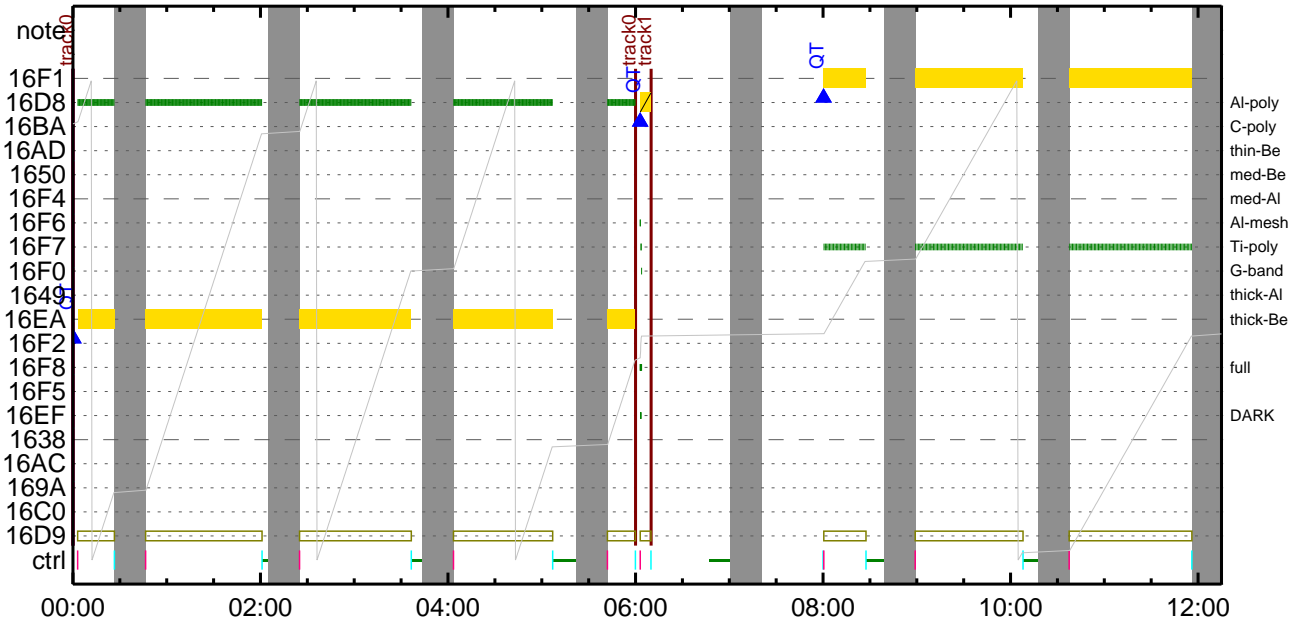
### CMDI #0740 2009/08/15



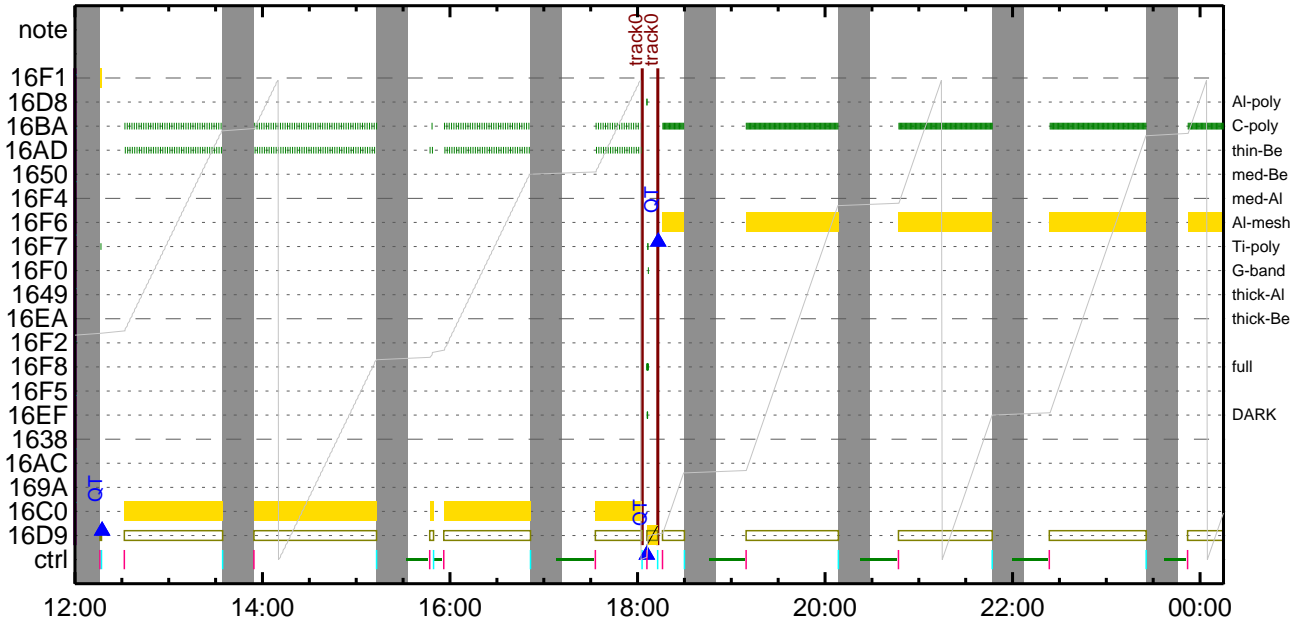
### CMDI #0740 2009/08/15



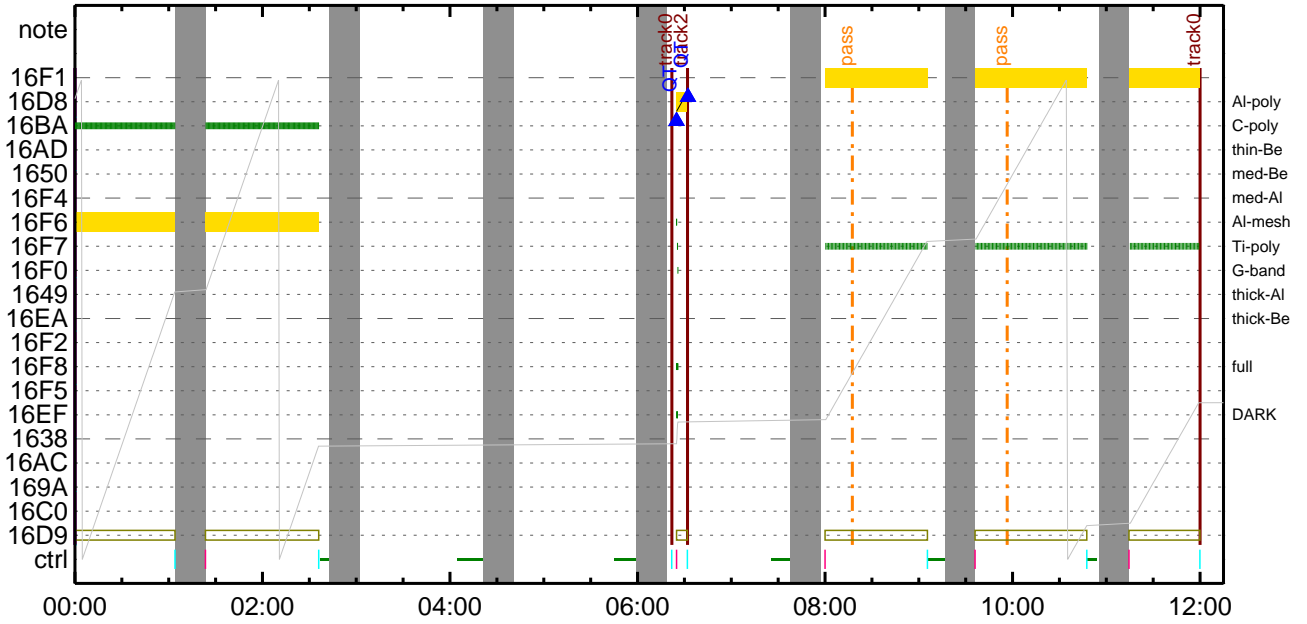
### CMDI #0740 2009/08/16



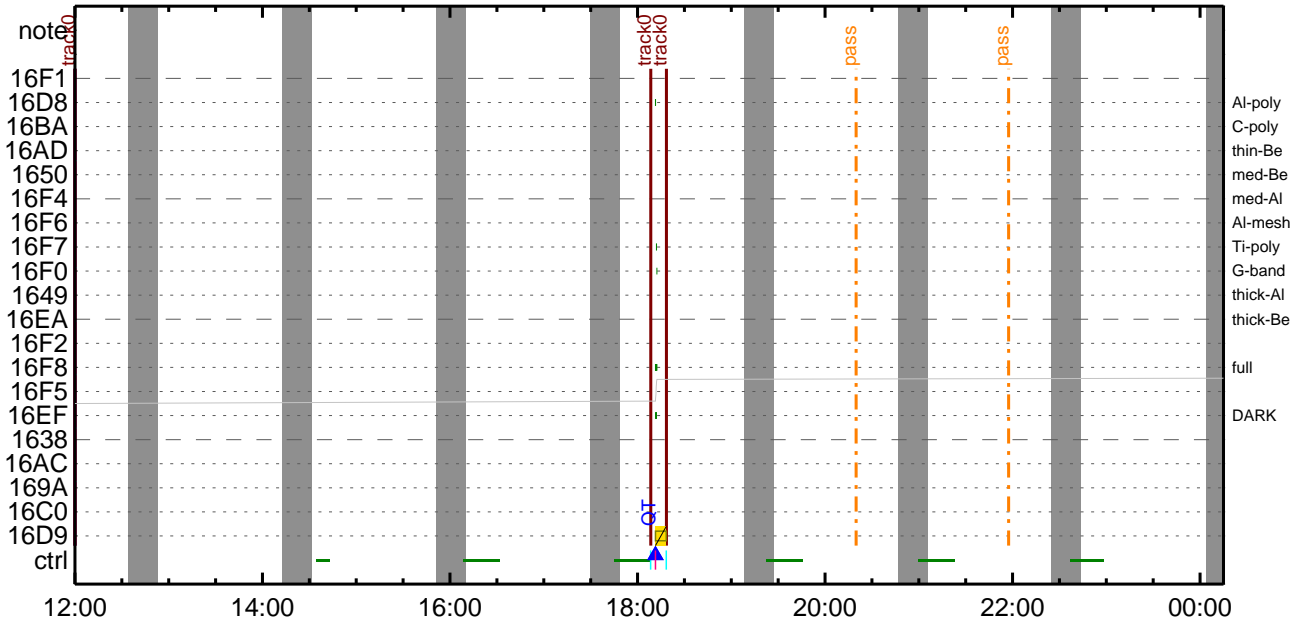
### CMDI #0740 2009/08/16



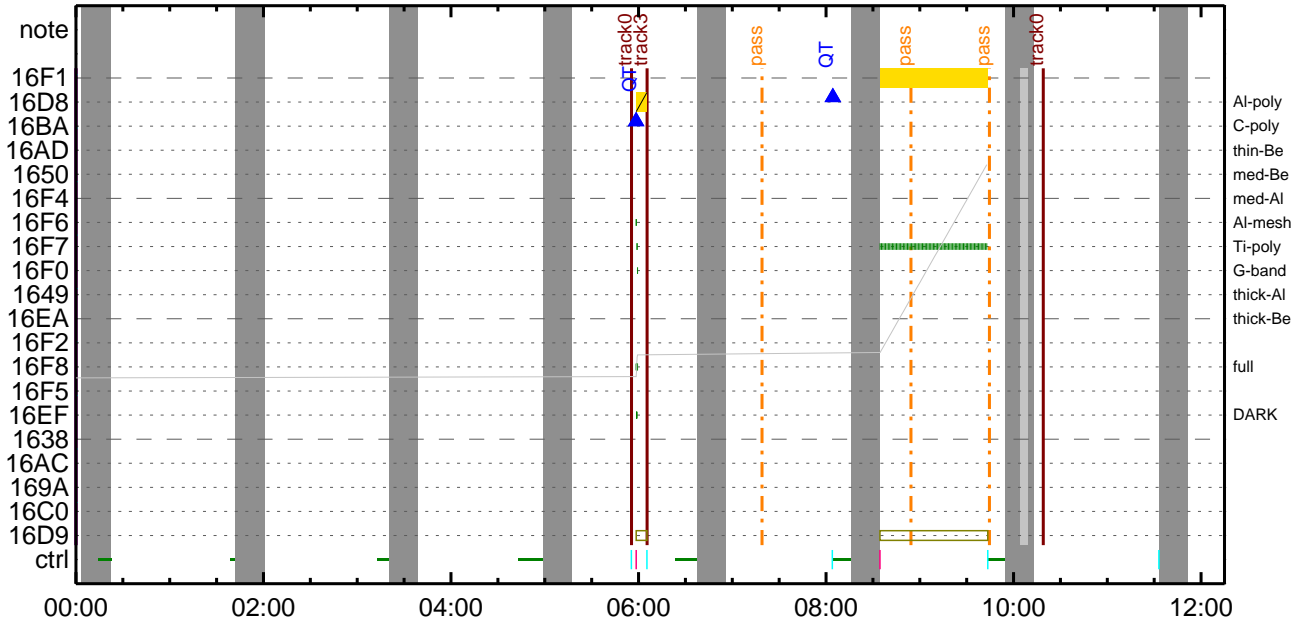
### CMDI #0740 2009/08/17



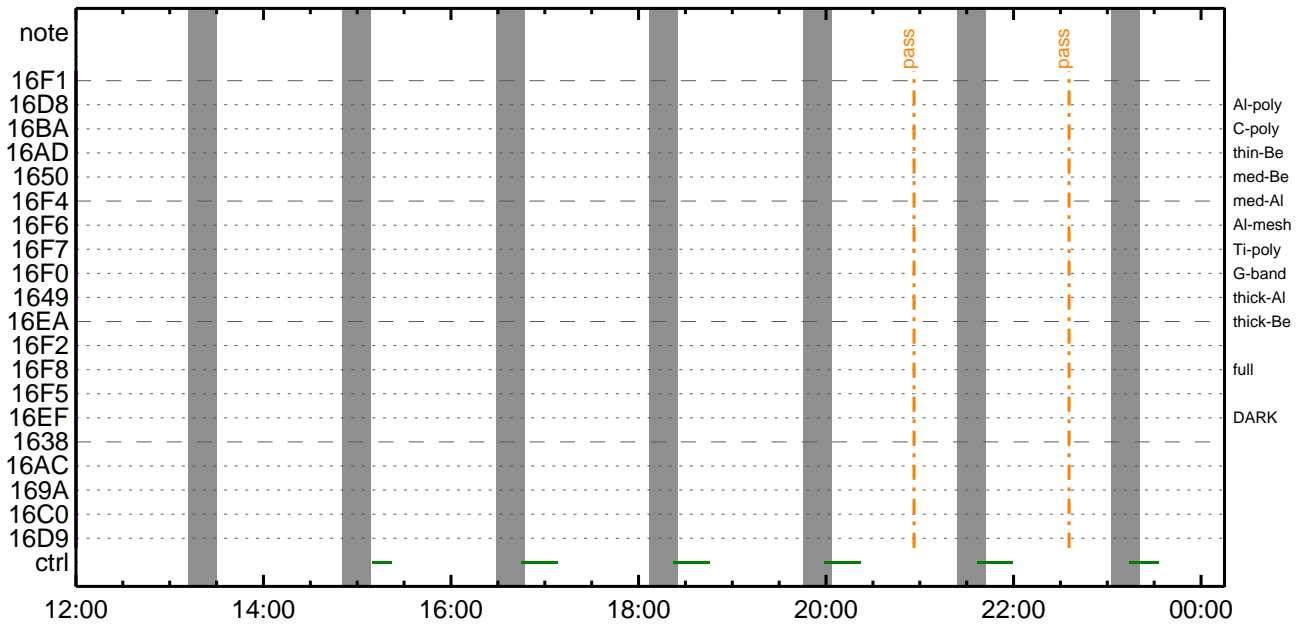
### CMDI #0740 2009/08/17



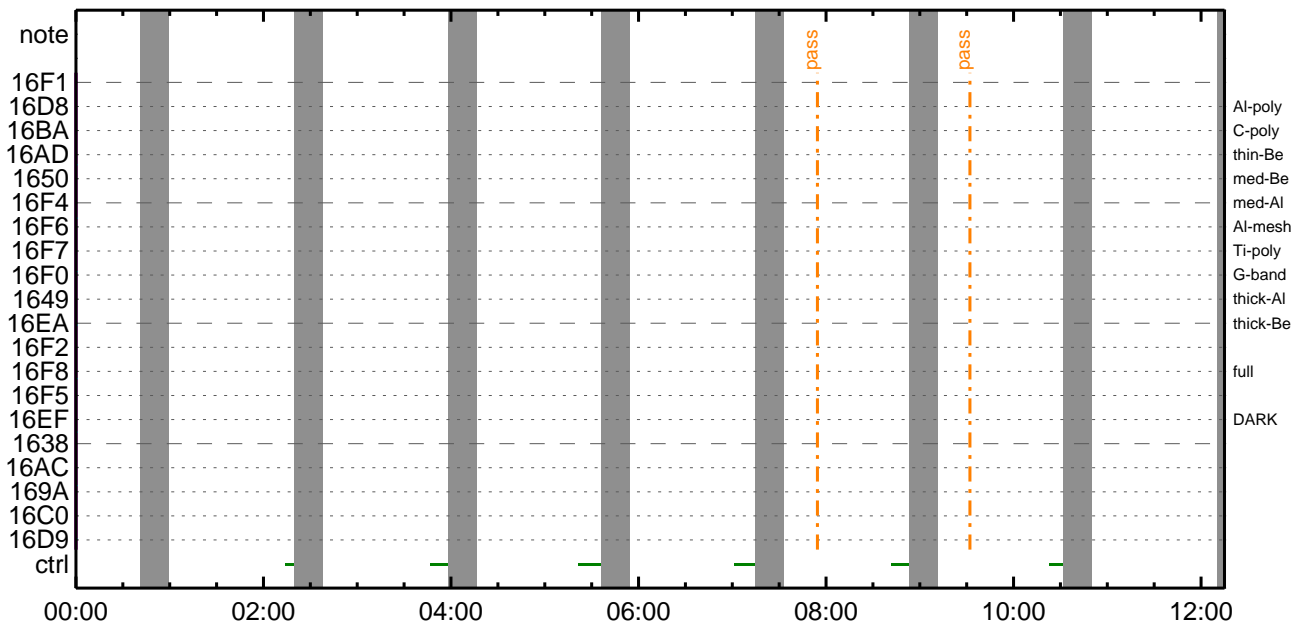
CMDI #0740 2009/08/18



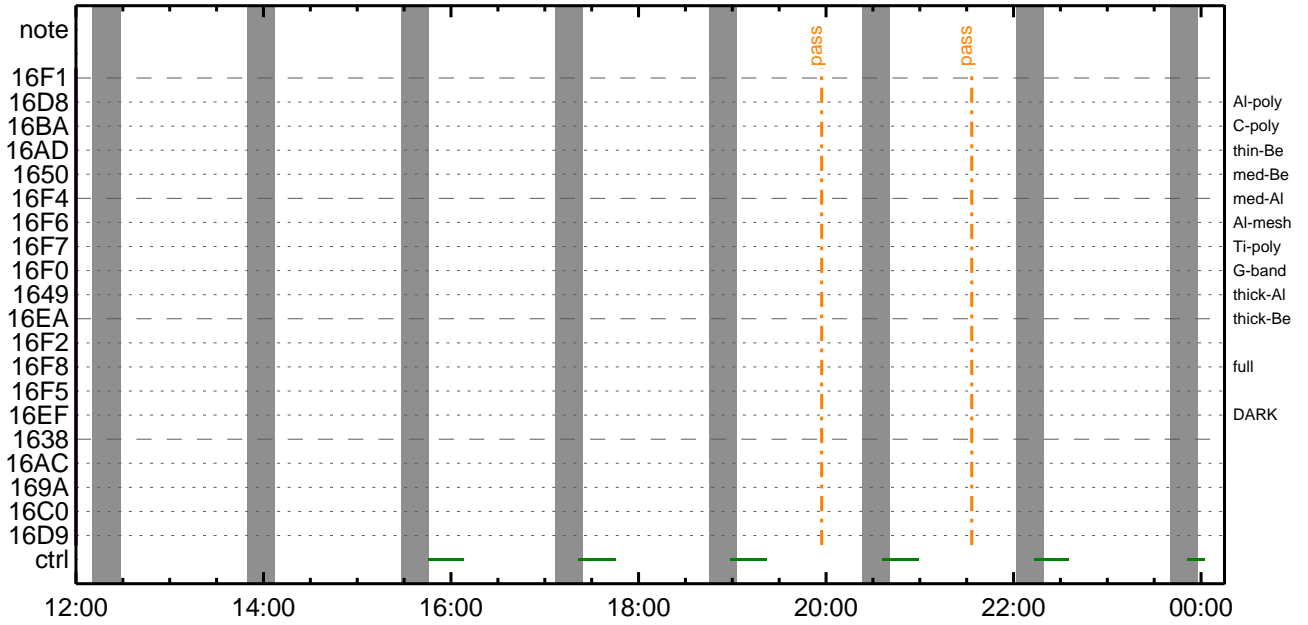
CMDI #0740 2009/08/18



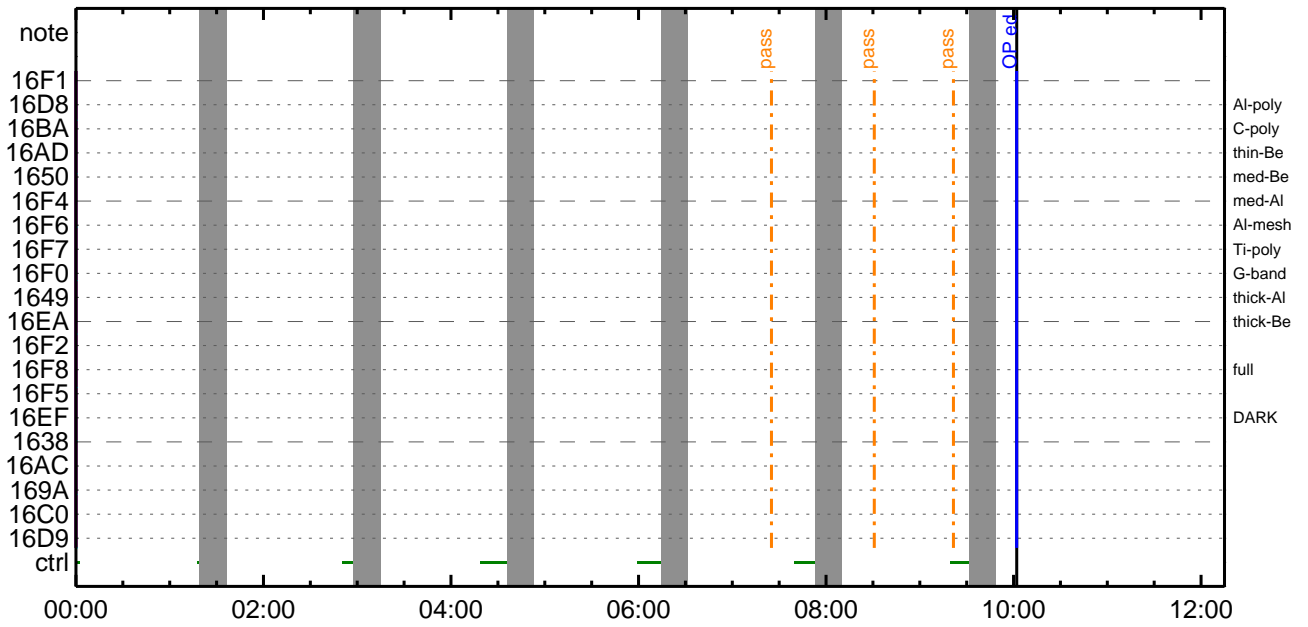
CMDI #0740 2009/08/19



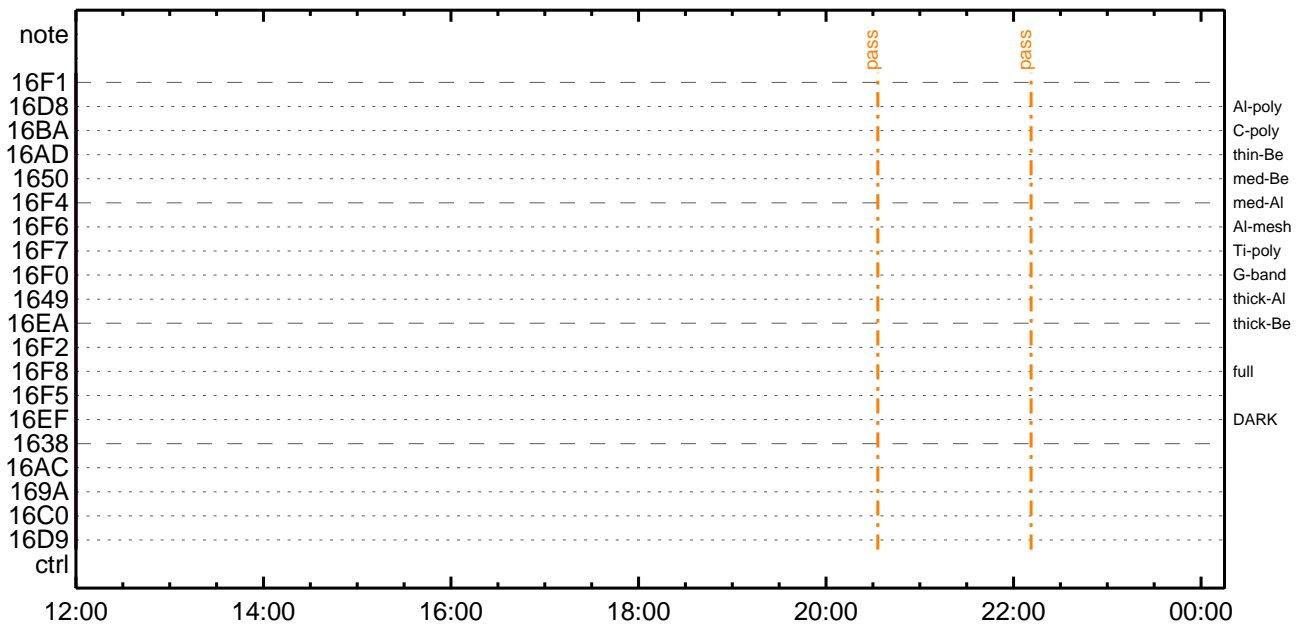
CMDI #0740 2009/08/19



CMDI #0740 2009/08/20



CMDI #0740 2009/08/20



(a) Spacecraft Operation Procedure (real-commands)

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main-783 2009-08-15 13:42:10 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁYB;¼Y³YB¥6YÉÁ+ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;ÈçòÄò•µ°Æ»Í×ÁÇóÍYçYÁY×YÍ;¼YÉ;ÈÈèµ•ííÉ;ÈòÈ¼°CÒò•óç¼l¹çóÍ;çÀ®, ùò¹òèòòòçÁ+ç®ò•òÈòòò³òÈ; É
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYÍ;¼YÉ;|YÁY6Y×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGYÍ;¼YÉ;ä
0019 . S. OP op-783:OP
0020 ()
0021 . S. OG og-783:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPÍ°èYÁY6Y×;ä
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. YÁY6Y×½ªÍ»òð³ÍÇ§
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGòÍ¼È¹ç•è²ÍOKòð³ÍÇ§
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. YÁY6Y×½ªÍ»òð³ÍÇ§
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGòÍ¼È¹ç•è²ÍOKòð³ÍÇ§
0062 C.
0063 C. NMOG(0x210000-0x210FFF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. YÁY6Y×½ªÍ»òð³ÍÇ§
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPòÍ¼È¹ç•è²ÍOKòð³ÍÇ§
0081 C.
0082 . C. ***** ²¼òÍ¼Á´¶¹°òÈÈ-ò°Á+ç®(¼áµ-YÁY6Y×¼è¼çòðÄÖÁæç¼ª°ò¼ç¼l¹çòçòâ) *****
0083 C. DHUYá;¼YÉ;ÈY¼;YÍ;¼YÉ;ÈòðÍá¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE |§ OPOG UPLOADò-Á+ç®NGòÍ¼¹ç;ç°È²¼òÍTI-CMDÁ+ç®òÍ¼Á¹Öò•òÈòòò³òÈ; É

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0096 C.                0B0Z;CSET0EDUMP0I0±0iYNY10Ç100|0³0E;E
0097 C.
0098 C. TIY³YFYYÖYÉ00dÁDİđ(UT)
0099 +. TI 2009-08-15 10:07:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                ÇÇ[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0102 C.
0103 +. TI 2009-08-15 10:07:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                ÇÇ[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0106 C.
0107 +. TI 2009-08-15 10:07:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                ÇÇ[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0110 C.
0111 +. TI 2009-08-15 10:11:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                ÇÇ[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0114 C.
0115 C. °E²¼0İÄê%îíN0İYÁY§YÁY-¹àìÜ
0116 C.                ÇÇ[HK1_TI_CMD_ENA/DIS]              EQ        ENA
0117 C.                ÇÇ[HK1_TI_CMD_NUM]                EQ        4
0118 C.                ÇÇ[HK1_NEXT_EXEC_PIM]              EQ        DHU
0119 C.                ÇÇ[HK1_NEXT_EXEC_DC]              EQ        0xB3
0120 C.
0121 C. *****
0122 C. TIİî°èYÄYÖY×
0123 C. *****
0124 C.
0125 C. TI_TBL(0x03AB00-0x03AEFF;§ 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC (03 ab 03 01 02)
0128 C.                ÇÇ[HK1_DMP_TOP_ADRS_1]              EQ        07
0129 C.                ÇÇ[HK1_DMP_TOP_ADRS_0]              EQ        2B
0130 C.                ÇÇ[HK1_DMP_BLOCK_NUM]              EQ        3
0131 C.                ÇÇ[HK1_DMP_REPEAT_NUM]             EQ        0
0132 C.                ÇÇ[HK1_DMA_DMP_PIM]               EQ        DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC (07 0b f8)
0135 C.                ÇÇ[HK1_PKT_FORM_NO]                EQ        7
0136 C.                ÇÇ[HK1_PKT_GEN_TIME]               EQ        0.25 s
0137 C.                ÇÇ[HK1_S_TLM_BIT_RATE]             EQ        32k
0138 C.                ÇÇ[HK1_X_TLM_BIT_RATE]            EQ        4M
0139 C.                ÇÇ[HK1_DMP_CHK_FLG]               EQ        EXEC
0140 C.
0141 C. YÄYÖY×¼¹İ»0d³İÇ§
0142 C.                ÇÇ[HK1_DMP_CHK_FLG]               EQ        NON
0143 C.
0144 C. RAM ID=TI_TBL0İ%È¹Ç•è²İOK0d³İÇ§
0145 C.
0146 C. DHUYâ;¼YÉ;È¼Y¼,¥î;¼YÈ;È0dİá0¹
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC (02 0a f8)
0149 C.                ÇÇ[HK1_PKT_FORM_NO]                EQ        2
0150 C.                ÇÇ[HK1_PKT_GEN_TIME]               EQ        0.5S
0151 C.                ÇÇ[HK1_S_TLM_BIT_RATE]             EQ        32K
0152 C.                ÇÇ[HK1_X_TLM_BIT_RATE]            EQ        4M
0153 C.
0154 C. *****
0155 C. SOT TI command set
0156 C. *****
0157 C. Execute, after the success of OP upload.
0158 +. TI 2009-08-15 10:11:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC (41)
0161 C. -----
0162 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0163 C. -----
0164 C. ***** SOT END *****
0165 C. Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C. ***** Start EIS operation (TI set) *****
0169 C. Execute, after the success of OP upload.
0170 C. Set EIS TI-commands
0171 +. TI 2009-08-15 10:11:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2009-08-15 10:11:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC (22)
0177 C.                [ ] [HK1_TI_CMD_NUM]                EQ        2 COUNTUP
0178 C. ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C. ***** XRT START *****
0183 C. Execute, after the success of OP upload.
0184 +. TI 2009-08-15 10:11:00.0
0185 DC 07-F0 MDP_XRT_MODE_STBY
0186 BC (c3)
0187 C.                [ ] [HK1_TI_CMD_NUM]                EQ        1COUNTUP
0188 C.
0189 C. ***** XRT END *****
0190 C.
0191 C. ***** MDP ´üÄî0İ»ö¼Y0ÈÄ0d¹0ëDCBC•×²è *****
0192 C. (%â°İYÖYÄYÉYB³YÉYÁYÇYé0E¼00¼Ä»Ü0¹0é)
0193 C. DC-BC dcbc-402:DCBC

```



```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥D¥!•İ Daily±;İÑøĒ'Øα¹αēDCBC•x²è *****
0198 . S. DC-BC dcbc-153:DCBC
0199 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200 C.
0201 C.
0202 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ä
0203 C.
0204 . C. ***** LOS *****
0205 C.
```



```

0096 C.
0097 C.
0098 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_MANU
0131 BC (21 02)
0132 . C. Verify EIS in MANUAL mode
0133 . C. Estimated OBSTBL upload time is 28s
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 2009-08-15 10:11:50.0
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 'úÃîâî»ö¼ÝðËÄð¹ñèDCBC•x²è *****
0153 C. (%ã°îÿÓÿÄÿËÿPÿËÿÄÿçÿèñË¼ñ¼Ä»Û¹ñè)
0154 . S. DC-BC dcbc-402:DCBC
0155 (MDP_known_event)
0156 C.
0157 C.
0158 . C. ***** ÿDÿ¹•Ï Daily±¿ÎÑñË'Ø¹ñèDCBC•x²è *****
0159 . S. DC-BC dcbc-153:DCBC
0160 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161 C.
0162 C.
0163 . C. ;ãLOSÿÄÿSÿÄÿÿ¼Ä»Û;ã
0164 C.
0165 . C. ***** LOS *****
0166 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-785 2009-08-15 13:42:10 114 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿òÀø•µ°È»Í×ÁÇøíYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈøÈ¼°ÇÇø•ø¿¼í¹çøí;çÀ®, ùø¹øÈøÈøÇÁ+¿®ø•øÈøøøø³øÈ;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 06 80 80 04 04)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 80 80 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 20 20)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 80 80 20 08)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0a 80 80 08 20)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0f 80 80 04 04)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 10 80 80 10 10)
0054 . C. ----- Success Verify ? OK / NG _____
0055 C.
0056 C.
0057 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0058 C.
0059 +. DC 07-F0 MDP_XRT_MODE_OBSV
0060 BC (c2)
0061 +. TI 2009-08-15 10:11:02.0
0062 DC 07-F0 MDP_XRT_MODE_OBSV
0063 BC (c2)
0064 . C. ----- Success Verify ? OK / NG _____
0065 C.
0066 C. ***** XRT END *****
0067 . C. *****
0068 C. SOT table upload
0069 C. *****
0070 . C. < Stop FG table >
0071 +. DC 07-F0 MDP_FG_CTRL_MANU
0072 BC (51)
0073 . C. -----
0074 C. MDP_FG_CTRL_MODE = MANU [ ]
0075 C. -----
0076 C.
0077 . C. <Upload FG Observation Table>
0078 . S. RAM ram-263:MDP_OBS_F
0079 ( )
0080 C.
0081 . C. < Dump RAMID=MDP_OBS_F >
0082 +. DC 07-F0 MDP_DUMP_FGTBL
0083 BC (82 07 00 00 00 38 b8)
0084 C. -----
0085 C. MDP_OBS_F verify = OK/NG [ ]
0086 C. -----
0087 C.
0088 C. *****
0089 C. SOT TI command set
0090 C. *****
0091 . C. Execute, after the success of TBL upload.
0092 +. TI 2009-08-15 10:11:18.0
0093 DC 07-F0 MDP_SOT_MODE_OBSV
0094 BC (40)
0095 . C. -----
```



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

2009/08/15	10:21:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	10:21:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2009/08/15	10:22:00.0	AOCS_Ore-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2009/08/15	10:22:16.0	XRT_QT_PROG_SET_420_OG [0x1a4]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 14				
2009/08/15	10:22:18.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/08/15	10:22:20.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/08/15	10:22:22.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/08/15	10:25:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	11:18:30.5	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	11:39:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	11:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	11:59:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2009/08/15	12:00:00.0	AOCS_Ore-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 ad 59 00 00				
2009/08/15	12:00:16.0	XRT_QT_PROG_SET_426_OG [0x1aa]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e				
2009/08/15	12:02:54.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/08/15	12:02:56.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/08/15	12:02:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/08/15	12:03:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	12:57:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	13:17:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	14:35:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	15:08:00.0	XRT_Custom_430_OG [0x1ae]							
2009/08/15	15:09:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	16:14:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	16:55:00.0	XRT_Custom_430_OG [0x1ae]							
2009/08/15	16:56:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	17:42:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	17:42:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/08/15	17:42:30.0	AOCS_Ore-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2009/08/15	17:42:46.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/08/15	17:42:48.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/08/15	17:42:50.0	XRT_ARS_DIS_410_OG [0x19a]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/08/15	17:45:28.0	XRT_QT_PROG_SET_400_OG [0x190]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 01				
2009/08/15	17:45:30.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	17:52:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	17:52:26.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2009/08/15	17:52:30.0	AOCS_Ore-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 ad 59 00 00				
2009/08/15	17:52:46.0	XRT_QT_PROG_SET_426_OG [0x1aa]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e				
2009/08/15	17:55:24.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/08/15	17:55:26.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/08/15	17:55:28.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/08/15	17:55:30.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	18:08:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	18:32:00.0	XRT_Custom_430_OG [0x1ae]							
2009/08/15	18:33:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/08/15	19:31:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/08/15	20:09:00.0	XRT_Custom_430_OG [0x1ae]							
2009/08/15	20:10:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							

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2009/08/15	21:09:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/15	21:46:00.0	XRT_Custom_430_OG [0x1ae]						
2009/08/15	21:47:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/15	22:48:00.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/15	23:21:00.0	XRT_Custom_430_OG [0x1ae]						
2009/08/15	23:22:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/15	23:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/15	23:59:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]						
			XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2009/08/16	00:00:00.0	AOCS_Ore-point_Start_4_OG [0x09a]						
			AOCU_NM	5	02-76	00 00 e5 53 e7		
2009/08/16	00:00:16.0	XRT_QT_PROG_SET_406_OG [0x196]						
			MDP_XRT_QT_PROG_SET	2	07-F0	c4 0a		
2009/08/16	00:02:54.0	XRT_ARS_DIS_422_OG [0x1a6]						
			MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/16	00:02:56.0	XRT_FLD_DIS_445_OG [0x1bd]						
			MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/16	00:02:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]						
			MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/16	00:03:00.0	XRT_CTRL_AUTO_403_OG [0x193]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	00:26:30.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	00:46:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	02:01:00.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	02:25:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	03:36:30.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	04:03:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	05:07:00.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	05:42:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	05:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	05:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]						
			XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2009/08/16	06:00:00.0	AOCS_Ore-point_Start_3_OG [0x099]						
			AOCU_NM	5	02-76	00 00 00 00 00		
2009/08/16	06:00:16.0	XRT_FLD_DIS_419_OG [0x1a3]						
			MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/16	06:00:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]						
			MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/16	06:00:20.0	XRT_ARS_DIS_410_OG [0x19a]						
			MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/16	06:02:58.0	XRT_QT_PROG_SET_409_OG [0x199]						
			MDP_XRT_QT_PROG_SET	2	07-F0	c4 13		
2009/08/16	06:03:00.0	XRT_CTRL_AUTO_403_OG [0x193]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	06:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	06:10:00.0	AOCS_Ore-point_Start_5_OG [0x09b]						
			AOCU_NM	5	02-76	01 00 00 00 00		
2009/08/16	08:00:00.5	XRT_CTRL_MANU_428_OG [0x1ac]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	08:00:02.5	XRT_FOCUS_POSITION_441_OG [0x1b9]						
			XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2009/08/16	08:00:22.5	XRT_QT_PROG_SET_420_OG [0x1a4]						
			MDP_XRT_QT_PROG_SET	2	07-F0	c4 14		
2009/08/16	08:00:24.5	XRT_ARS_DIS_422_OG [0x1a6]						
			MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/16	08:00:26.5	XRT_FLD_DIS_445_OG [0x1bd]						
			MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/16	08:00:28.5	XRT_FLRCTRL_DIS_416_OG [0x1a0]						
			MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/16	08:00:30.5	XRT_CTRL_AUTO_403_OG [0x193]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	08:27:30.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	08:59:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	10:08:00.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	10:37:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	11:56:00.0	XRT_CTRL_MANU_435_OG [0x1b3]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	12:16:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]						
			MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/16	12:17:00.0	XRT_CTRL_MANU_428_OG [0x1ac]						
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/16	12:17:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]						
			XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		

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2009/08/16	12:17:22.0	XRT_QT_PROG_SET_414_OG [0x19e]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	02
2009/08/16	12:31:30.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/08/16	12:31:32.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2009/08/16	12:31:34.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2009/08/16	12:31:36.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	13:34:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	13:54:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	15:13:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	15:46:00.0	XRT_Custom_430_OG [0x1ae]					
2009/08/16	15:47:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	15:49:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	15:55:00.0	XRT_Custom_430_OG [0x1ae]					
2009/08/16	15:56:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	16:51:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	17:32:00.0	XRT_Custom_430_OG [0x1ae]					
2009/08/16	17:33:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	18:02:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	18:02:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa	00
2009/08/16	18:03:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00 00 00 00	00
2009/08/16	18:03:16.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2009/08/16	18:03:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2009/08/16	18:03:20.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/08/16	18:05:58.0	XRT_QT_PROG_SET_400_OG [0x190]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	01
2009/08/16	18:06:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	18:12:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	18:12:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97	00
2009/08/16	18:13:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 ad 59 00	00
2009/08/16	18:13:16.0	XRT_QT_PROG_SET_426_OG [0x1aa]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0e
2009/08/16	18:15:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/08/16	18:15:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2009/08/16	18:15:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2009/08/16	18:16:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	18:30:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	19:08:30.0	XRT_Custom_430_OG [0x1ae]					
2009/08/16	19:09:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	20:08:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	20:46:00.0	XRT_Custom_430_OG [0x1ae]					
2009/08/16	20:47:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	21:47:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	22:22:30.0	XRT_Custom_430_OG [0x1ae]					
2009/08/16	22:23:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/16	23:25:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/16	23:51:00.0	XRT_Custom_430_OG [0x1ae]					
2009/08/16	23:52:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/17	01:04:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/17	01:23:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/08/17	02:36:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/17	06:21:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/08/17	06:21:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa	00
2009/08/17	06:22:00.5	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00 00 00 00	00



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2009/08/17	06:22:16.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/17	06:22:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/17	06:22:20.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/17	06:24:58.0	XRT_QT_PROG_SET_409_OG [0x199]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	13	
2009/08/17	06:25:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/17	06:31:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/17	06:31:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97 00
2009/08/17	06:32:00.0	AOCS_ORe-point_Start_6_OG [0x09c]	AOCU_NM	5	02-76	02	00	00 00 00
2009/08/17	06:32:16.0	XRT_QT_PROG_SET_420_OG [0x1a4]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	14	
2009/08/17	06:32:18.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/17	06:32:20.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/17	06:32:22.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/17	08:00:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/17	09:05:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/17	09:36:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/17	10:47:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/17	11:14:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/17	11:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/17	12:00:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00	00	00 00 00
2009/08/17	18:08:24.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/17	18:08:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa 00
2009/08/17	18:08:30.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00	00	00 00 00
2009/08/17	18:08:46.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/17	18:08:48.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/17	18:08:50.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/17	18:11:28.0	XRT_QT_PROG_SET_400_OG [0x190]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	01	
2009/08/17	18:11:30.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/17	18:18:24.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/17	18:18:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	ad	59 00 00
2009/08/18	05:55:24.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/18	05:55:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa 00
2009/08/18	05:55:30.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00	00	00 00 00
2009/08/18	05:55:46.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/18	05:55:48.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/18	05:55:50.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/18	05:58:28.0	XRT_QT_PROG_SET_409_OG [0x199]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	13	
2009/08/18	05:58:30.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/18	06:05:24.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/18	06:05:30.0	AOCS_ORe-point_Start_7_OG [0x09d]	AOCU_NM	5	02-76	03	00	00 00 00
2009/08/18	08:04:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/08/18	08:04:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97 00
2009/08/18	08:04:22.0	XRT_QT_PROG_SET_420_OG [0x1a4]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	14	
2009/08/18	08:04:24.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/08/18	08:04:26.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/08/18	08:04:28.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/08/18	08:34:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/08/18	09:43:30.0	XRT_CTRL_MANU_435_OG [0x1b3]						

2009/08/18	10:19:00.0	AOCS_ORe-point_Start_3_OG [0x099]	MDP_XRT_CTRL_MANU	1	07-F0	c1
			AOCU_NM	5	02-76	00 00 00 00 00
2009/08/18	11:33:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1