

XRT Timeline to be uploaded on 2009/05/19

Period: 2009/05/19 10:53:00 - 2009/05/23 10:37:00

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Normal mode

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XOB #16B0: Al/poly 384FOV Q95 - 30s-cad - Ti/poly + Thin-Be context - AEC1											
Term	Pointing (x, y)				Comment						
05/19 11:06:00 - 05/19 17:53:54	Track (610.7, 300.2) ^{@ 05/19 11:03:00}				# OP start + 10min HOP119						
05/19 18:07:00 - 05/20 04:26:00	Track (654.4, 298.1) ^{@ 05/19 18:04:00}				# Track AR						
PROG= 06 1-time(s)											
└─ Subr= 1 30-time(s) 2.0sec											
└─ Seqn= 63 1-time(s) 30.0sec											
└─ Al-poly/Open Al-poly/thick-Al close Safe Norm 2.00s Obs 1x1 384x384 (1024, 1024) Q=95 1 0 2.0sec											
└─ Subr= 2 1-time(s) 4.0sec											
└─ Seqn= 23 2-time(s) 4.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Norm 2.00s Obs 1x1 384x384 (1024, 1024) Q=95 1 0 2.0sec											
└─ thin-Be/Open med-Be/Open close Safe Norm 11.3s Obs 1x1 384x384 (1024, 1024) Q=95 1 0 2.0sec											
└─ thin-Be/Open thin-Be/Open close Safe Dark 22.6s Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec											
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval

XOB #16A1: Synoptic Q95 2x2 - Al/poly(128/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(181/2048) + G-band(16)											
Term	Pointing (x, y)				Comment						
05/19 17:57:00 - 05/19 18:03:54	Fixed (0.0, 0.0)				synoptic, shifted -6.0 min						
05/20 17:18:00 - 05/20 17:48:00	Fixed (0.0, 0.0)				synoptic, shifted manually						
05/20 18:30:00 - 05/20 19:26:30	Fixed (0.0, 190.0)				* 8/18						
05/20 20:07:00 - 05/20 21:05:00	Fixed (0.0, -88.0)				* 10/18						
05/20 21:44:00 - 05/20 22:43:30	Fixed (0.0, -291.0)				* 12/18						
05/20 23:19:00 - 05/21 00:22:00	Fixed (0.0, -494.0)				* 14/18						
05/21 00:49:30 - 05/21 01:58:30	Fixed (0.0, -698.0)				* 16/18						
PROG= 15 1-time(s)											
└─ Subr= 1 1-time(s) 12.0sec											
└─ Seqn= 24 1-time(s) 4.0sec											
└─ Al-poly/Open Al-poly/Open close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec											
└─ Al-poly/Open Al-poly/Open close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											
└─ Seqn= 7 1-time(s) 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											
└─ Seqn= 71 1-time(s) 4.0sec											
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec											
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 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 #16A0: Synoptic Q95 2x2 - Al/mesh(88/723) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(181/2048) + G-band(16)											
Term	Pointing (x, y)				Comment						
05/20 05:42:00 - 05/20 06:06:30	Fixed (0.0, 0.0)				synoptic, shifted -21.0 min						
05/20 06:46:00 - 05/20 08:29:54	Track (721.0, 294.6) ^{@ 05/20 05:49:00}				# Track AR						
05/21 06:03:00 - 05/21 06:09:54	Fixed (0.0, 0.0)				synoptic						
PROG= 16 1-time(s)											
└─ Subr= 1 1-time(s) 12.0sec											
└─ Seqn= 46 1-time(s) 4.0sec											
└─ Open/Al-mesh Open/Al-mesh close Safe Norm 86ms 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=98 0 0 2.0sec											
└─ Seqn= 7 1-time(s) 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											
└─ Seqn= 71 1-time(s) 4.0sec											
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec											
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 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 #16A4: Synoptic 9 Filter- 2x2 Q98 Shorter exp											
Term	Pointing (x, y)				Comment						
05/20 08:33:00 - 05/20 12:52:30	Fixed (0.0, 0.0)				* Disc center tracking						
05/20 13:20:00 - 05/20 14:31:00	Fixed (0.0, 800.0)				* 2/18						
05/20 15:05:30 - 05/20 16:09:30	Fixed (0.0, 597.0)				* 4/18						
05/20 16:53:30 - 05/20 17:14:54	Fixed (0.0, 291.0)				* 7/18						
PROG= 05 1-time(s)											
└─ Subr= 1 1-time(s) 180.0sec											
└─ Seqn= 38 1-time(s) 25.0sec											
└─ Open/Al-mesh Open/Al-mesh close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec											

Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 5 1-time(s) 25.0sec												
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 59 1-time(s) 25.0sec												
Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 2 1-time(s) 25.0sec												
C-poly/Open	C-poly/Open	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
C-poly/Open	C-poly/Open	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 77 1-time(s) 25.0sec												
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 67 1-time(s) 4.0sec												
thin-Be/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 2 1-time(s) 360.0sec												
Seqn= 20 1-time(s) 4.0sec												
med-Al/Open	med-Al/Open	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 45 1-time(s) 4.0sec												
Open/thick-Be	Open/thick-Be	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 50 1-time(s) 4.0sec												
Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 92 1-time(s) 4.0sec												
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 #16AC: G-Band Alignment with North Pole Q90 2x2(G-band only) - 5min cadence - Partial Sun-wNGT

Term	Pointing (x, y)	Comment										
05/21 02:28:00 - 05/21 03:39:00	Fixed (0.0, 945.0)	* Co-alignment program at N limb										
PROG= 04 1-time(s)												
Subr= 1 1-time(s) 360.0sec												
Seqn= 10 24-time(s) 300.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

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

Term	Pointing (x, y)	Comment										
05/21 04:06:30 - 05/21 05:59:54	Fixed (-945.0, 0.0)	* Co-alignment program at E limb										
PROG= 17 1-time(s)												
Subr= 1 1-time(s) 360.0sec												
Seqn= 13 15-time(s) 480.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #16B1: CME watch - C/poly - 2x2 1024x1024 - Be/thin - 2x2 - 1024x1024 - AEC2-limited

Term	Pointing (x, y)	Comment										
05/21 06:13:00 - 05/21 10:05:00	Fixed (850.0, 306.7)	# AR near limb										
05/21 10:40:30 - 05/23 10:37:00	Fixed (0.0, 0.0)	Backup plan										
PROG= 01 5-time(s)												
Subr= 1 10-time(s) 2.0sec												
Seqn= 49 1-time(s) 60.0sec												
thin-Be/Open	thin-Be/Open	close	Safe	Norm	5.66s	Obs	2x2	1024x1024 (1024, 1024)	DPCM	2	0	2.0sec
Seqn= 48 1-time(s) 60.0sec												
C-poly/Open	C-poly/Open	close	Safe	Norm	2.00s	Obs	2x2	1024x1024 (1024, 1024)	DPCM	2	0	2.0sec
C-poly/Open	C-poly/Open	close	Safe	Norm	177ms	Obs	2x2	768x768 (1024, 1024)	DPCM	2	0	2.0sec
Subr= 2 1-time(s) 2.0sec												
Seqn= 76 1-time(s) 4.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	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	

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Flare mode

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NOT USED

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Active Region Search

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NOT USED

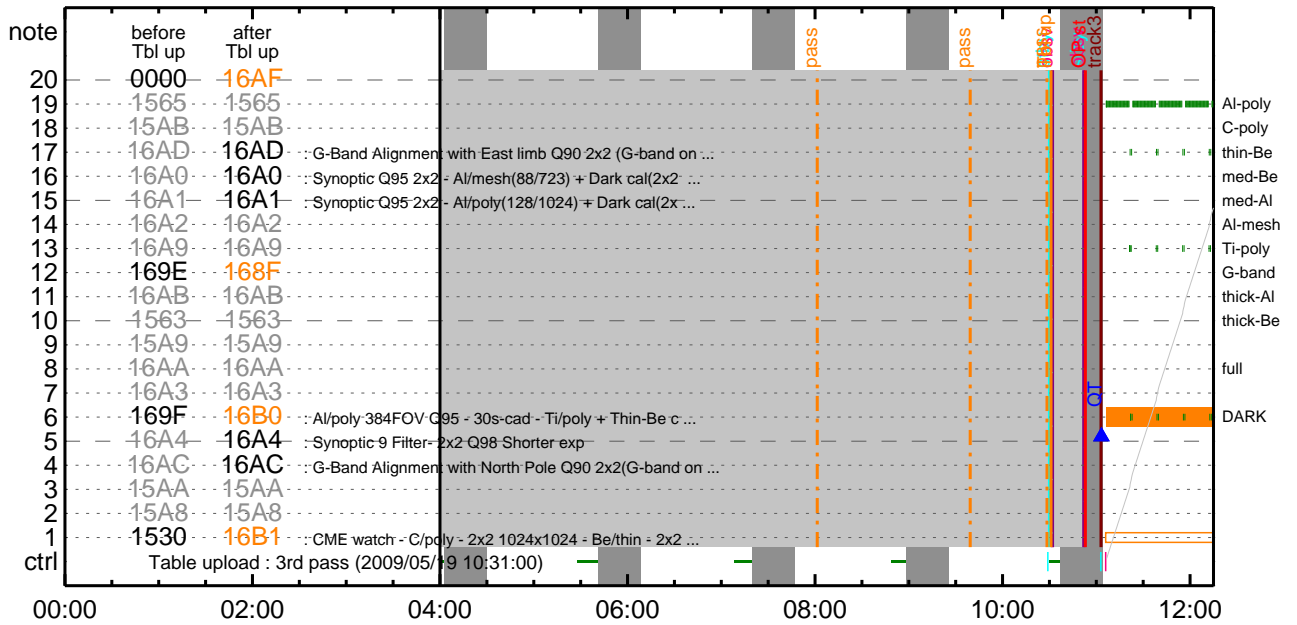
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Flare Detection

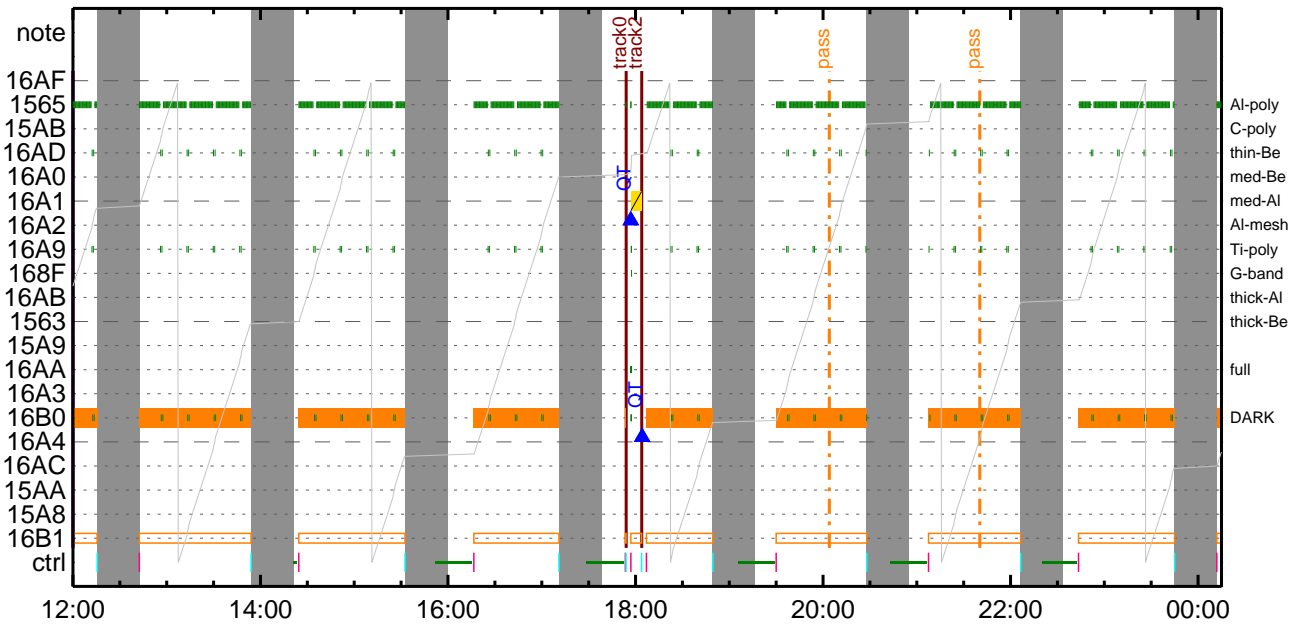
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NOT USED

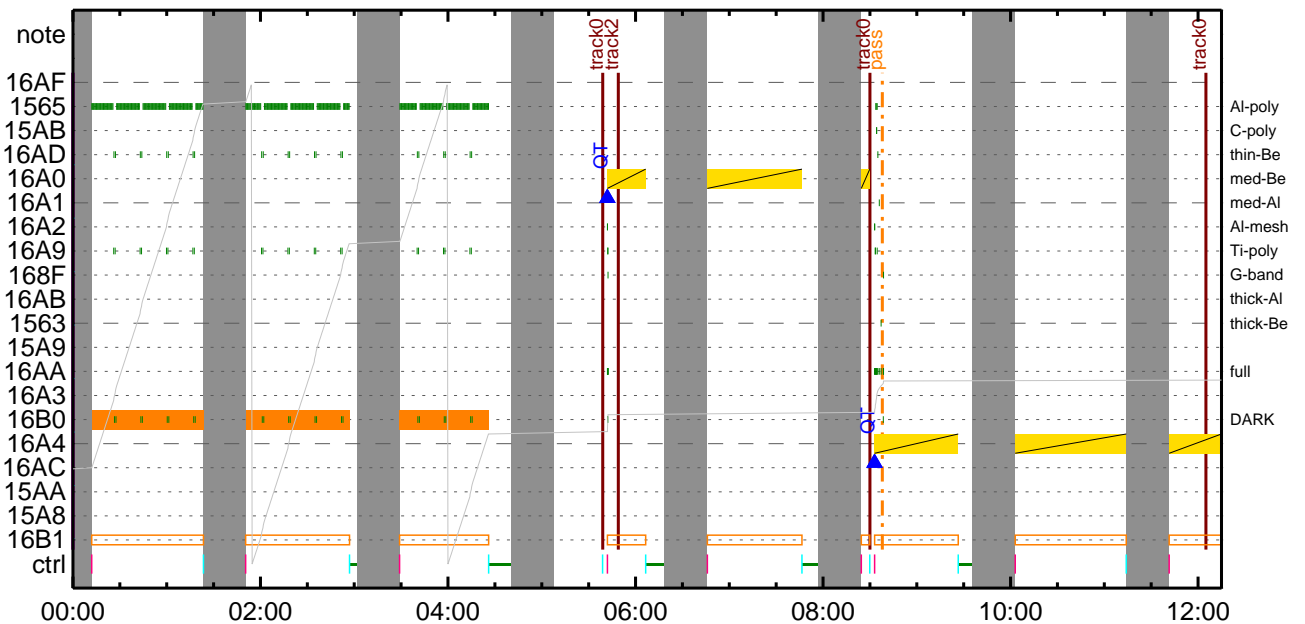
CMDI #0568 2009/05/19



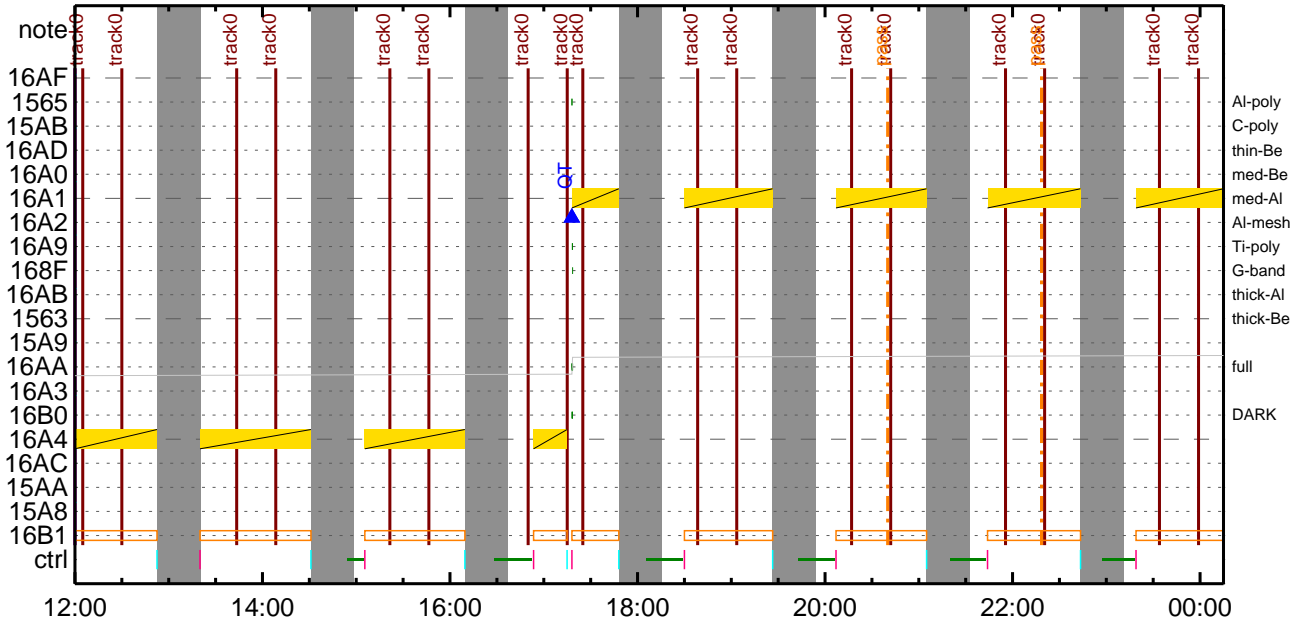
CMDI #0568 2009/05/19



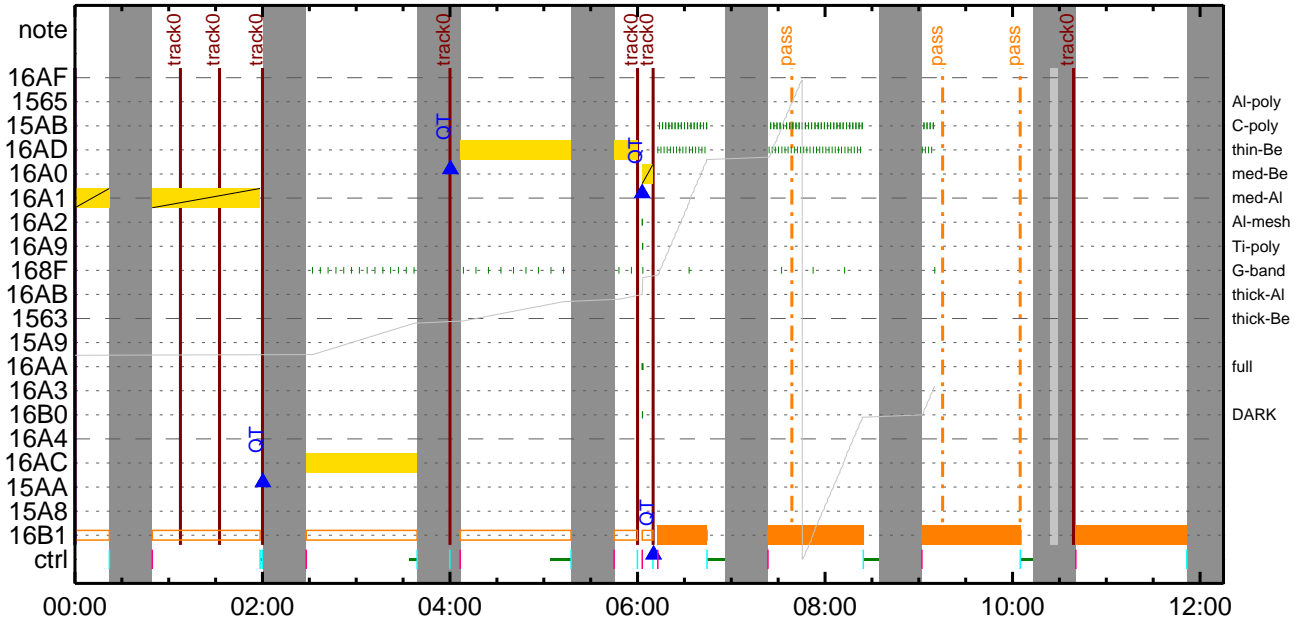
CMDI #0568 2009/05/20



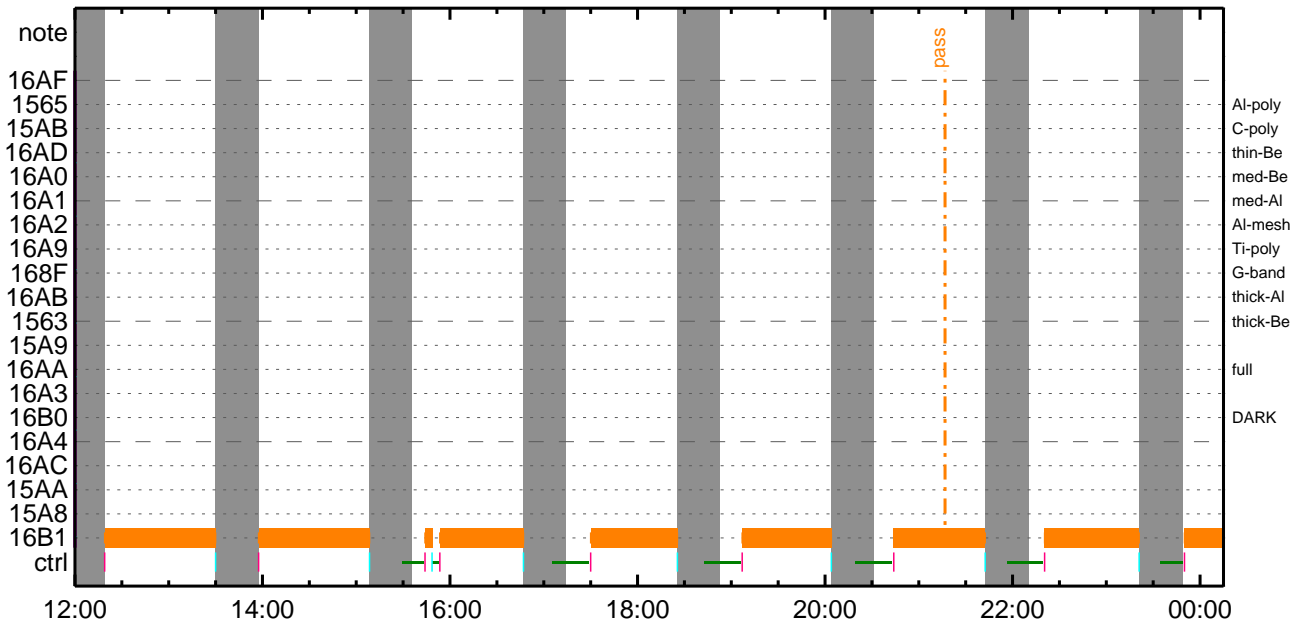
CMDI #0568 2009/05/20



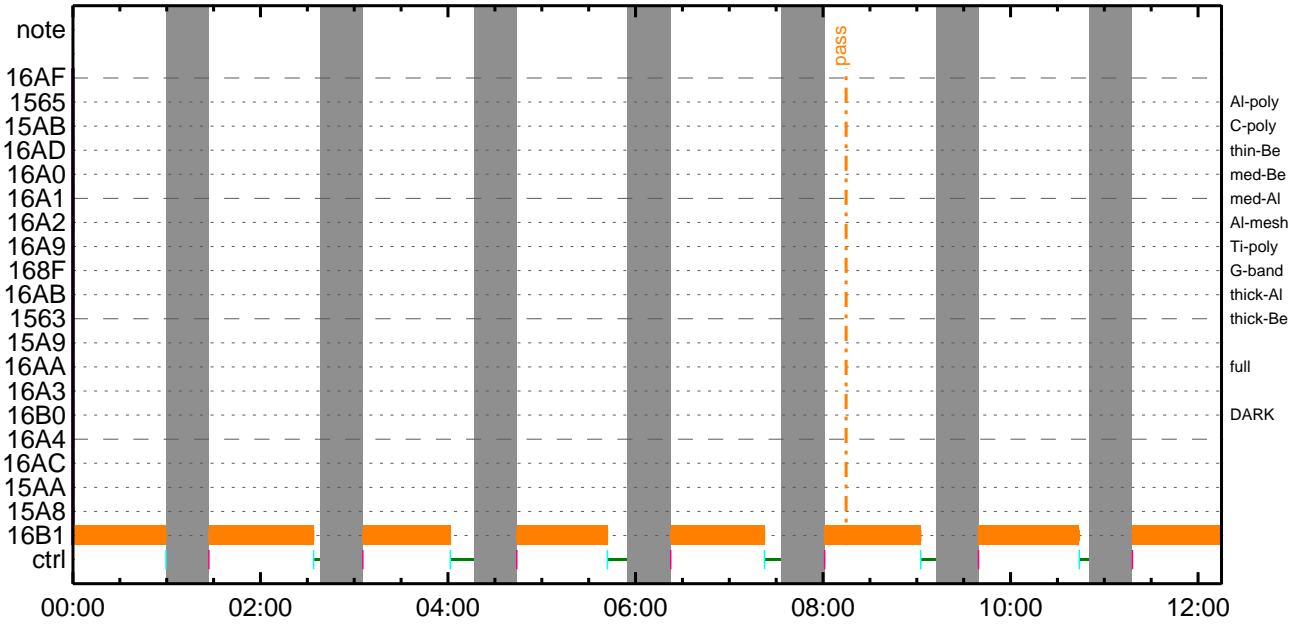
CMDI #0568 2009/05/21



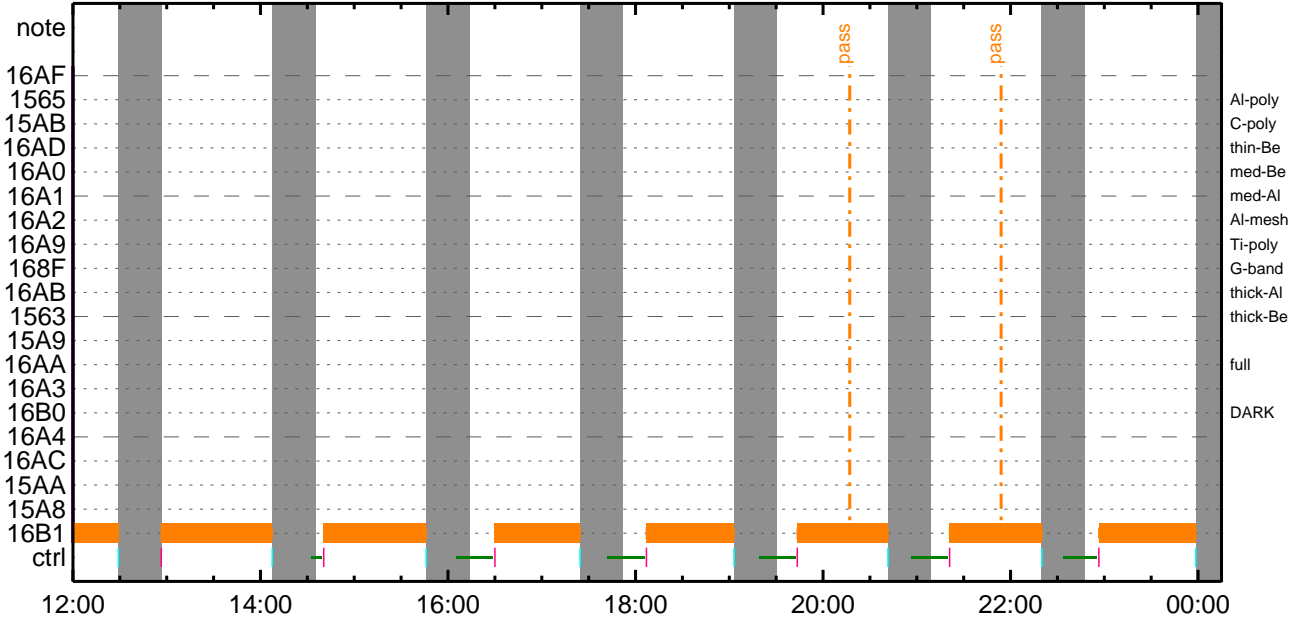
CMDI #0568 2009/05/21



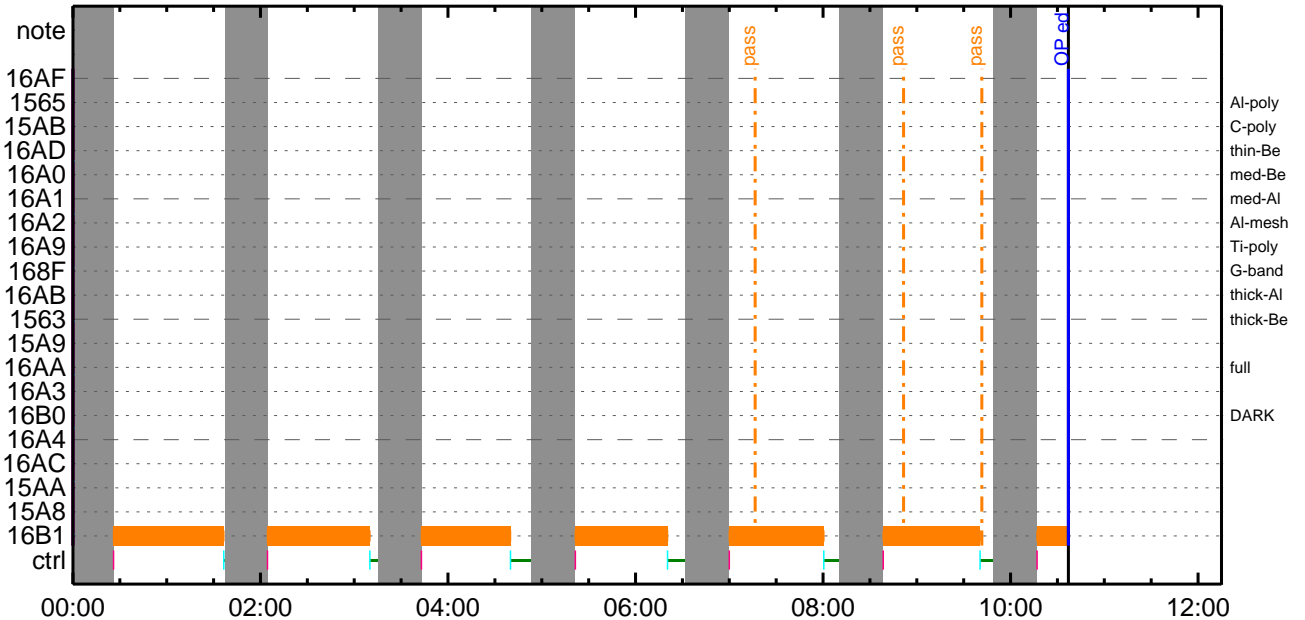
CMDI #0568 2009/05/22



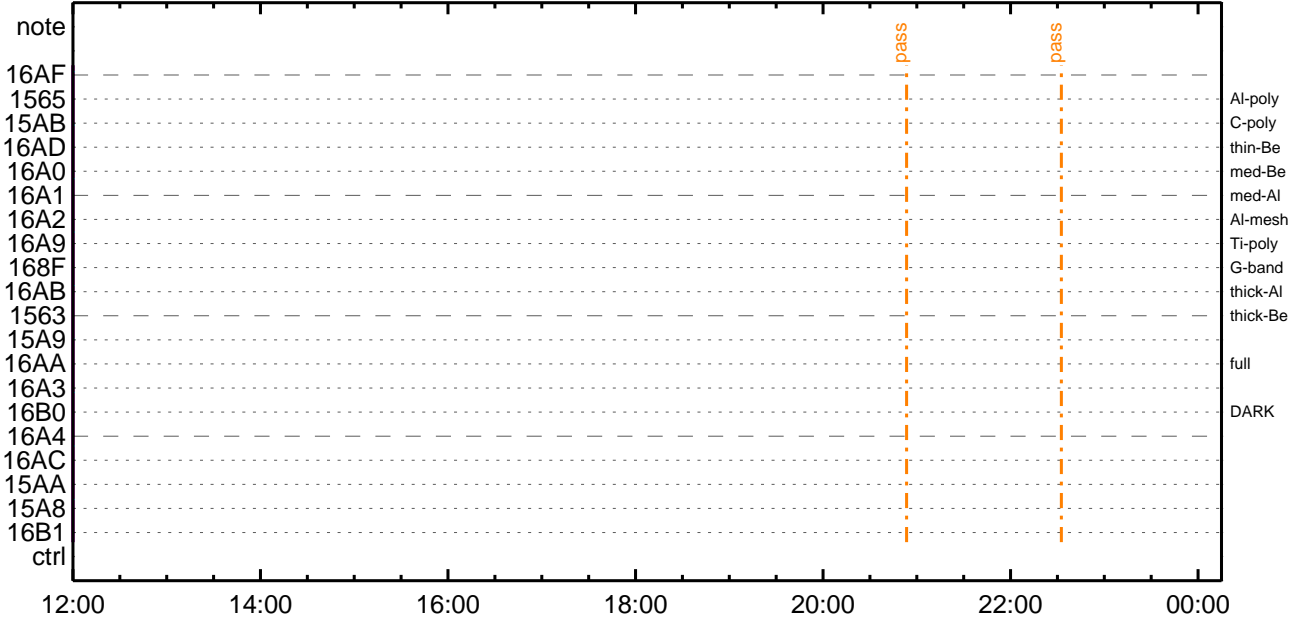
CMDI #0568 2009/05/22



CMDI #0568 2009/05/23



CMDI #0568 2009/05/23




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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOX
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-603:OP
0104 ( )
0105 S. OG og-603:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYOX;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. YAYOXx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOGãî¼È¹ç•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. YAYOXx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOGãî¼È¹ç•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. YAYOXx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OPãî¼È¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** òÈ²¼òî¼Ã´¶Á°òÈÈ-ò°Á÷¿@ (¼åµ-YAYOXx½ªî»ò³îÇ§ãðÁÔÃæòÇ¼ª°"òÈ¼î¹çòÇãâ) *****
0167 C. DHUYã;4YE;È¼Y½, Yî;4YE;Èòðîã¹
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 UPLOADã-Á÷¿@NGUî¼î¹ç;ç°È²¼òî¼TI-CMDÁ÷¿@ãî¼Á¹Ôã•òÈòòò³òÈ;f
0180 C. òÈò¿;çSETòÈDUMPAîÆ±°îYÑY¹ç¹Ôò|ò³òÈ;f
0181 C.
0182 C. TIY³YpYóYÈòðÁDî¿¿(UT)
0183 +. TI 2009-05-19 10:48:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2009-05-19 10:48:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2009-05-19 10:48:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
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0194 C.
0195 +. TI 2009-05-19 10:52:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          çç[HK1_TI_CMD_NUM]          EQ      1COUNTUP
0198 C.
0199 C. °Ê²¼αîÄë%îîñαîÿÄÿ§ÿÄÿ-¹àîÛ
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. TIîî°èÿÄÿÖÿ×
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. ÿÄÿÖÿ×½ªî»αð³îÇ§
0226 C.          çç[HK1_DMP_CHK_FLG]       EQ      NON
0227 C.
0228 C. RAM ID=TI_TBLαîî¼Ê¹ç•è²îOKαð³îÇ§
0229 C.
0230 C. DHUÿâ;¼ÿÊ;Ê¼ÿ¼.ÿî;¼ÿÊ;Êαðîîá¹
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. ***** AOCs Commands (Tracking Curve Upload) *****
0239 C. Upload the Orbit Element and the Target Attitude
0240 C. RAM-ID:TARGET_ATT
0241 S. RAM ram-150:TARGET_ATT
0242 C.
0243 C.
0244 C.
0245 C. Set the dump memory area of TARGET_ATT
0246 +. DC 02-48 AOCU_DUMP_SET
0247 BC      (07 00 00 00 18 00)
0248 C.
0249 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0250 C.
0251 C.
0252 C. Change the TLMFormatNo for the AOCs Dump Format
0253 +. DC 01-22 DHU_MODE_CHNG
0254 BC      (04 0b f8)
0255 C.
0256 C. Wait for AOCSDUMP to end
0257 C.
0258 C. Check the dump memory
0259 C.
0260 C.          Result = OK [ ]
0261 C.
0262 +. DC 01-22 DHU_MODE_CHNG
0263 BC      (02 0a f8)
0264 C.
0265 C.          <A_***>[TLM STS] FMT = 2 [ ]
0266 C.
0267 +. DC 02-8E AOCU_ORB_UPD
0268 C.
0269 C. ***** AOCs Commands (Orbital Element Update) *****
0270 C. Update the orbital element
0271 +. DC 02-50 AOCU_ORB_PRPGT_START
0272 BC      (16)
0273 +. DC 02-8E AOCU_ORB_UPD
0274 C.
0275 C.          <A_ORB>[ORBIT] EPC = 7850977.9 +- 1.0 (s) [ ]
0276 C.
0277 C.
0278 C. Stop EIS observation and temporarily disable EIS mode changes
0279 C.
0280 C.
0281 C. ***** Start EIS operation (TI set) *****
0282 C. Execute, after the success of OP upload.
0283 C. Set EIS TI-commands
0284 +. TI 2009-05-19 10:52:30.0
0285 DC 07-FC EIS_MODE_MANU
0286 BC      (21 02)
0287 +. TI 2009-05-19 10:52:40.0
0288 DC 07-FC EIS_MODE_CHG_DIS
0289 BC      (22)
0290 C.          [ ] [HK1_TI_CMD_NUM] EQ      2 COUNTUP
0291 C. ***** End EIS operation (TI set) *****

```

```

0292 C.
0293 C.
0294 C. *****
0295 C. SOT TI command set
0296 C. *****
0297 C. Execute, after the success of OP upload.
0298 +. TI 2009-05-19 10:52:16.0
0299 DC 07-F0 MDP_SOT_MODE_STBY
0300 BC (41)
0301 . C. -----
0302 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0303 C. -----
0304 C. ***** SOT END *****
0305 C.
0306 C. ***** XRT START *****
0307 C. Execute, after the success of OP upload.
0308 +. TI 2009-05-19 10:52:00.0
0309 DC 07-F0 MDP_XRT_MODE_STBY
0310 BC (c3)
0311 . C. [ ] [HK1_TI_CMD_NUM] EQ 1COUNTUP
0312 C.
0313 C. ***** XRT END *****
0314 C.
0315 . C. ***** MDP 'úÃîñî»ö¼ÝñÊÂðñ¹ñèDCBC•x²è *****
0316 C. (¼ã°îÝÓÝÄÝÈÝÞÝËÝáÝçÝèñÈ¼ñ¼Ä»Ûñ¹ñè)
0317 . S. DC-BC dcbc-402:DCBC
0318 (MDP_known_event)
0319 C.
0320 C.
0321 . C. ***** ÝÐÝ¹•Ï Daily±¿ÎÑñË´Øñ¹ñèDCBC•x²è *****
0322 . S. DC-BC dcbc-153:DCBC
0323 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0324 C.
0325 C.
0326 . C. ;ãLOSÝÄÝ§ÝÄÝ¬¼Ä»Û;ã
0327 C.
0328 . C. ***** LOS *****
0329 C.

```



```

0096 C.
0097 C.
0098 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0099 +. DC 07-FC EIS_MODE_MANU
0100 BC (21 02)
0101 . C. Verify EIS in MANUAL mode
0102 . C. Estimated OBSTBL upload time is 1m16s
0103 C. *****
0104 C. EIS START OBSTBL LOAD
0105 C. *****
0106 . S. RAM ram-820:EIS_OBSTBL
0107 ( )
0108 +. DC 07-FC EIS_DUMP_OBSTBL
0109 BC (07 07 07 00 00 70 00)
0110 C.
0111 C. Execute, after the success of OBSTBL upload.
0112 C. Set EIS TI-commands
0113 +. TI 2009-05-19 10:52:50.0
0114 DC 07-FC EIS_MODE_CHG_ENA
0115 BC (20)
0116 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0117 C. *****
0118 C. EIS END OBSTBL LOAD
0119 C. *****
0120 C.
0121 . C. ***** MDP `ûÃîñî»ö¼ÿñÊÃðñ¹ñèDCBC•x²è *****
0122 C. (¼ã°îÿÓÿÃÿËÿÏÿËÿÃÿÿÿèñ¼¼ã¼Ã»Ûñ¹ñè)
0123 . S. DC-BC dcbc-402:DCBC
0124 (MDP_known_event)
0125 C.
0126 C.
0127 . C. ***** ÿDÿ¹•î Daily±;îññÊ´øñ¹ñèDCBC•x²è *****
0128 . S. DC-BC dcbc-153:DCBC
0129 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0130 C.
0131 C.
0132 . C. ;ãLOSÿÃÿSÿÿÿÿ¼Ã»Û;ã
0133 C.
0134 . C. ***** LOS *****
0135 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-605 2009-05-19 11:33:57 160 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSÿÄÿSÿÄÿ-¼Ä»Û;ã
0005 C.
0006 C. ÿÄÿB;¼ÿ³ÿFÿÖÿÉÄ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Äí;È¿¿ââ•µ°È»Í×ÁÇâíÿçÿÄÿ×ÿÿí;¼ÿÿÉ;ÈÈ¿µ•ííÈ;ÈÈ¼°ÇÖâ•â¿¼í¹çâí;çÄ®, ùâ¹âÈââçÄ+¿®â•âÈâââ³âÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop FG table >
0018 +. DC 07-F0 MDP_FG_CTRL_MANU
0019 BC (51)
0020 . C. -----
0021 C. MDP_FG_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload FG Observation Table>
0025 . S. RAM ram-262:MDP_OBS_F
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_F >
0029 +. DC 07-F0 MDP_DUMP_FGTBL
0030 BC (82 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_F verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 . C. < Stop SP table >
0036 +. DC 07-F0 MDP_SP_CTRL_MANU
0037 BC (61)
0038 C. -----
0039 C. MDP_SP_CTRL_MODE = MANU [ ]
0040 C. -----
0041 C.
0042 . C. <Upload SP Observation Table>
0043 . S. RAM ram-287:MDP_OBS_S
0044 ( )
0045 C.
0046 . C. < Dump RAMID=MDP_OBS_S >
0047 +. DC 07-F0 MDP_DUMP_SPTBL
0048 BC (83 07 00 00 00 38 b8)
0049 C. -----
0050 C. MDP_OBS_S verify = OK/NG [ ]
0051 C. -----
0052 C.
0053 . C. < Upload DPL table >
0054 C.
0055 C. ÿçÿÄÿ×ÿÿí;¼ÿÿÉâíÄ°âÈSTS_CHKâðOFFâÈâ¹âÈ
0056 C.
0057 . S. RAM ram-271:MDP_DPL
0058 ( )
0059 C.
0060 . C. < Dump RAMID=MDP_DPL >
0061 +. DC 07-F0 MDP_DUMP_FGTBL
0062 BC (82 07 00 38 b8 00 40)
0063 C. -----
0064 C. MDP_DPL verify = OK [ ]
0065 C. -----
0066 C.
0067 C. STS_CHKâðONâÈâ¹âÈ
0068 C.
0069 . C. < Update MDP DSC PAR1 >
0070 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0071 BC (4c)
0072 C. MDP_CMD_CODE = F04C0700 [ ]
0073 C. MDP_CMD_CNT (count-up 1) [ ]
0074 C. -----
0075 C.
0076 . C.
0077 C. *****
0078 C. SOT TI command set
0079 C. *****
0080 C. Execute, after the success of TBL upload.
0081 +. TI 2009-05-19 10:52:18.0
0082 DC 07-F0 MDP_SOT_MODE_OBSV
0083 BC (40)
0084 C. -----
0085 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0086 C. -----
0087 C.
0088 C.
0089 C. ***** XRT START *****
0090 C.
0091 +. DC 07-F0 MDP_XRT_CTRL_MANU
0092 BC (c1)
0093 + DC 07-F0 MDP_XRT_MODE_STBY
0094 BC (c3)
0095 . C. ----- Success Verify ? OK / NG_____
```

```

0096 C.
0097 C. XRT Obs. Table Upload
0098 . S. RAM ram-291:MDP_OBS_X
0099 ( )
0100 C.
0101 +. DC 07-F0 MDP_DUMP_XRTTBL
0102 BC (84 07 00 00 00 3a d4)
0103 . C. ----- Comparison Check ? OK / ERR ____
0104 C.
0105 C.
0106 +. DC 07-F0 MDP_XRT_ROI_SET
0107 BC (cd 01 b1 b1 04 04)
0108 + DC 07-F0 MDP_XRT_ROI_SET
0109 BC (cd 02 b1 b1 08 08)
0110 + DC 07-F0 MDP_XRT_ROI_SET
0111 BC (cd 03 b1 b1 08 08)
0112 + DC 07-F0 MDP_XRT_ROI_SET
0113 BC (cd 04 b1 b1 06 06)
0114 + DC 07-F0 MDP_XRT_ROI_SET
0115 BC (cd 06 80 80 06 06)
0116 + DC 07-F0 MDP_XRT_ROI_SET
0117 BC (cd 07 80 80 20 20)
0118 + DC 07-F0 MDP_XRT_ROI_SET
0119 BC (cd 08 80 60 20 18)
0120 + DC 07-F0 MDP_XRT_ROI_SET
0121 BC (cd 09 a0 80 18 20)
0122 + DC 07-F0 MDP_XRT_ROI_SET
0123 BC (cd 0a 80 80 10 10)
0124 + DC 07-F0 MDP_XRT_ROI_SET
0125 BC (cd 0b 80 80 0c 0c)
0126 + DC 07-F0 MDP_XRT_ROI_SET
0127 BC (cd 0c 80 80 08 08)
0128 + DC 07-F0 MDP_XRT_ROI_SET
0129 BC (cd 0f 80 80 04 04)
0130 + DC 07-F0 MDP_XRT_ROI_SET
0131 BC (cd 10 80 80 10 10)
0132 . C. ----- Success Verify ? OK / NG ____
0133 C.
0134 C.
0135 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0136 C.
0137 +. DC 07-F0 MDP_XRT_MODE_OBSV
0138 BC (c2)
0139 +. TI 2009-05-19 10:52:02.0
0140 DC 07-F0 MDP_XRT_MODE_OBSV
0141 BC (c2)
0142 . C. ----- Success Verify ? OK / NG ____
0143 C.
0144 C. ***** XRT END *****
0145 C.
0146 . C. ***** MDP 'úÃîâî»ö¼ÝðËÄð¹ñèDCBC•x²è *****
0147 C. (%ã°îÿÓÿÄÿËÿÏÿËÿÄÿÇÿÈÿ¼ð¼Ä»Û¹ñè)
0148 . S. DC-BC dcbc-402:DCBC
0149 (MDP_known_event)
0150 C.
0151 C.
0152 . C. ***** ÿÐÿ¹•ï Daily±¿îÑñË´Ø¹ñèDCBC•x²è *****
0153 . S. DC-BC dcbc-153:DCBC
0154 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0155 C.
0156 C.
0157 . C. ;ãLOSÿÄÿÏÿÄÿ-¼Ä»Û;ã
0158 C.
0159 . C. ***** LOS *****
0160 C.

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May 19, 09 11:34

XRT_OGLIST_0568.chk

Page 1/5

*** OP Sequence for XRT ***

2009/05/19	11:02:54.0	XRT_CTRL_MANU_428_OG [0x1ac]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	11:02:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2009/05/19	11:03:00.0	AOCS_Ore-point_Start_1_OG [0x097]					
		AOCU_NM	5	02-76	03 00 00 00 00		
2009/05/19	11:03:16.0	XRT_QT_PROG_SET_431_OG [0x1af]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 06		
2009/05/19	11:03:18.0	XRT_ARS_DIS_422_OG [0x1a6]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/05/19	11:03:20.0	XRT_FLD_DIS_445_OG [0x1bd]					
		MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/05/19	11:03:22.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]					
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/05/19	11:06:00.0	XRT_CTRL_AUTO_403_OG [0x193]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	12:15:30.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	12:42:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	13:54:00.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	14:23:30.0	XRT_Custom_430_OG [0x1ae]					
2009/05/19	14:24:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	15:32:30.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	16:15:30.0	XRT_Custom_430_OG [0x1ae]					
2009/05/19	16:16:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	17:11:00.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	17:52:30.0	XRT_Custom_430_OG [0x1ae]					
2009/05/19	17:53:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	17:53:54.0	XRT_CTRL_MANU_428_OG [0x1ac]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	17:53:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]					
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2009/05/19	17:54:00.0	AOCS_Ore-point_Start_2_OG [0x098]					
		AOCU_NM	5	02-76	00 00 00 00 00		
2009/05/19	17:54:16.0	XRT_FLD_DIS_419_OG [0x1a3]					
		MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/05/19	17:54:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]					
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/05/19	17:54:20.0	XRT_ARS_DIS_410_OG [0x19a]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/05/19	17:56:58.0	XRT_QT_PROG_SET_409_OG [0x199]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f		
2009/05/19	17:57:00.0	XRT_CTRL_AUTO_440_OG [0x1b8]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	18:03:54.0	XRT_CTRL_MANU_428_OG [0x1ac]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	18:03:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2009/05/19	18:04:00.0	AOCS_Ore-point_Start_3_OG [0x099]					
		AOCU_NM	5	02-76	02 00 00 00 00		
2009/05/19	18:04:16.0	XRT_QT_PROG_SET_431_OG [0x1af]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 06		
2009/05/19	18:04:18.0	XRT_ARS_DIS_422_OG [0x1a6]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2009/05/19	18:04:20.0	XRT_FLD_DIS_445_OG [0x1bd]					
		MDP_XRT_FLD_DIS	1	07-F0	d9		
2009/05/19	18:04:22.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]					
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2009/05/19	18:07:00.5	XRT_CTRL_AUTO_403_OG [0x193]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	18:49:30.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	19:29:00.0	XRT_Custom_430_OG [0x1ae]					
2009/05/19	19:30:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	20:28:00.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	21:06:30.0	XRT_Custom_430_OG [0x1ae]					
2009/05/19	21:07:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	22:06:30.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/19	22:42:30.0	XRT_Custom_430_OG [0x1ae]					
2009/05/19	22:43:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/19	23:45:00.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/20	00:12:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/20	01:23:30.0	XRT_CTRL_MANU_435_OG [0x1b3]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2009/05/20	01:50:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2009/05/20	02:57:00.0	XRT_CTRL_MANU_435_OG [0x1b3]					

Wednesday May 20, 2009

1/5

May 19, 09 11:34

XRT_OGLIST_0568.chk

Page 2/5

2009/05/20	03:29:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_MANU	1	07-F0	c1
			MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	04:26:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	05:38:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	05:38:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/05/20	05:39:00.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2009/05/20	05:39:16.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/20	05:39:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/20	05:39:20.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/20	05:41:58.0	XRT_QT_PROG_SET_404_OG [0x194]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10
2009/05/20	05:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	05:49:00.0	AOCS_Ore-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	02 00 00 00 00
2009/05/20	06:06:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	06:46:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	07:46:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	08:24:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	08:29:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	08:29:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/05/20	08:30:00.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2009/05/20	08:30:16.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/20	08:30:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/20	08:30:20.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/20	08:32:58.0	XRT_QT_PROG_SET_402_OG [0x192]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 05
2009/05/20	08:33:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	09:26:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	10:03:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	11:14:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	11:41:30.5	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	12:05:00.0	AOCS_Ore-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	00 af cf 00 00
2009/05/20	12:30:00.0	AOCS_Ore-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	00 b8 e6 00 00
2009/05/20	12:52:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	13:20:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	13:43:30.0	AOCS_Ore-point_Start_6_OG [0x09c]	AOCU_NM	5	02-76	00 c1 f4 00 00
2009/05/20	14:08:30.0	AOCS_Ore-point_Start_7_OG [0x09d]	AOCU_NM	5	02-76	00 ca f2 00 00
2009/05/20	14:31:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	15:04:30.0	XRT_Custom_430_OG [0x1ae]	XRT_CTRL_AUTO_432_OG [0x1b0]	1	07-F0	c0
2009/05/20	15:05:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	15:21:30.0	AOCS_Ore-point_Start_8_OG [0x09e]	AOCU_NM	5	02-76	00 d4 19 00 00
2009/05/20	15:46:30.0	AOCS_Ore-point_Start_9_OG [0x09f]	AOCU_NM	5	02-76	00 dd 0f 00 00
2009/05/20	16:09:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	16:50:00.0	AOCS_Ore-point_Start_10_OG [0x0a0]	AOCU_NM	5	02-76	00 e6 25 00 00
2009/05/20	16:52:30.0	XRT_Custom_430_OG [0x1ae]	XRT_CTRL_AUTO_432_OG [0x1b0]	1	07-F0	c0
2009/05/20	16:53:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/20	17:14:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/20	17:14:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/05/20	17:15:00.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2009/05/20	17:15:16.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/20	17:15:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9

May 19, 09 11:34

XRT_OGLIST_0568.chk

Page 3/5

2009/05/20	17:15:20.0	XRT_ARS_DIS_410_OG [0x19a]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/05/20	17:17:58.0	XRT_QT_PROG_SET_409_OG [0x199]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f				
2009/05/20	17:18:00.0	XRT_CTRL_AUTO_440_OG [0x1b8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/20	17:25:00.0	AOCS_OrE-point_Start_11_OG [0x0a1]							
		AOCU_NM	5	02-76	00 ef 1b 00 00				
2009/05/20	17:48:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/20	18:29:00.0	XRT_Custom_430_OG [0x1ae]							
2009/05/20	18:30:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/20	18:38:30.0	AOCS_OrE-point_Start_12_OG [0x0a2]							
		AOCU_NM	5	02-76	00 f8 32 00 00				
2009/05/20	19:03:30.0	AOCS_OrE-point_Start_13_OG [0x0a3]							
		AOCU_NM	5	02-76	00 07 ce 00 00				
2009/05/20	19:26:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/20	20:06:00.0	XRT_Custom_430_OG [0x1ae]							
2009/05/20	20:07:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/20	20:17:00.0	AOCS_OrE-point_Start_14_OG [0x0a4]							
		AOCU_NM	5	02-76	00 10 e5 00 00				
2009/05/20	20:42:00.0	AOCS_OrE-point_Start_15_OG [0x0a5]							
		AOCU_NM	5	02-76	00 19 db 00 00				
2009/05/20	21:05:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/20	21:43:00.0	XRT_Custom_430_OG [0x1ae]							
2009/05/20	21:44:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/20	21:55:30.0	AOCS_OrE-point_Start_16_OG [0x0a6]							
		AOCU_NM	5	02-76	00 22 f1 00 00				
2009/05/20	22:20:30.0	AOCS_OrE-point_Start_17_OG [0x0a7]							
		AOCU_NM	5	02-76	00 2b e7 00 00				
2009/05/20	22:43:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/20	23:18:00.0	XRT_Custom_430_OG [0x1ae]							
2009/05/20	23:19:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/20	23:34:00.0	AOCS_OrE-point_Start_18_OG [0x0a8]							
		AOCU_NM	5	02-76	00 35 0e 00 00				
2009/05/20	23:59:00.0	AOCS_OrE-point_Start_19_OG [0x0a9]							
		AOCU_NM	5	02-76	00 3e 0c 00 00				
2009/05/21	00:22:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/21	00:49:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/21	01:07:30.0	AOCS_OrE-point_Start_20_OG [0x0aa]							
		AOCU_NM	5	02-76	00 47 1a 00 00				
2009/05/21	01:32:30.0	AOCS_OrE-point_Start_21_OG [0x0ab]							
		AOCU_NM	5	02-76	00 50 31 00 00				
2009/05/21	01:58:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/21	01:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/21	01:59:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2009/05/21	02:00:00.0	AOCS_OrE-point_Start_22_OG [0x0ac]							
		AOCU_NM	5	02-76	00 ac 00 00 00				
2009/05/21	02:00:16.0	XRT_QT_PROG_SET_413_OG [0x19d]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 04				
2009/05/21	02:00:18.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/05/21	02:00:20.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/05/21	02:00:22.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/05/21	02:28:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/21	03:39:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/21	03:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/21	03:59:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2009/05/21	04:00:00.5	AOCS_OrE-point_Start_23_OG [0x0ad]							
		AOCU_NM	5	02-76	00 00 00 54 00				
2009/05/21	04:00:16.0	XRT_QT_PROG_SET_423_OG [0x1a7]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 11				
2009/05/21	04:00:18.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/05/21	04:00:20.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/05/21	04:00:22.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/05/21	04:06:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/21	05:17:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/21	05:45:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/21	05:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							

2009/05/21	05:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	MDP_XRT_CTRL_MANU	1	07-F0	c1
		XRT_FOCUS_POSITION		4	07-F8	22 ff aa 00
2009/05/21	06:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00
2009/05/21	06:00:16.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/21	06:00:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/21	06:00:20.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/21	06:02:58.0	XRT_QT_PROG_SET_404_OG [0x194]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10
2009/05/21	06:03:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	06:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	06:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/05/21	06:10:00.0	AOCS_ORe-point_Start_24_OG [0x0ae]	AOCU_NM	5	02-76	00 e4 bd b4 73
2009/05/21	06:10:16.0	XRT_QT_PROG_SET_400_OG [0x190]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 01
2009/05/21	06:10:18.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/21	06:10:20.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/21	06:10:22.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/21	06:13:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	06:44:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	07:23:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	08:24:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	09:02:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	10:05:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	10:39:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00
2009/05/21	10:40:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	11:51:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	12:19:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	13:30:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	13:57:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	15:08:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	15:43:00.0	XRT_Custom_430_OG [0x1ae]				
2009/05/21	15:44:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	15:48:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	15:52:30.0	XRT_Custom_430_OG [0x1ae]				
2009/05/21	15:53:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	16:47:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	17:29:00.0	XRT_Custom_430_OG [0x1ae]				
2009/05/21	17:30:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	18:25:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	19:06:00.5	XRT_Custom_430_OG [0x1ae]				
2009/05/21	19:07:00.5	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	20:04:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	20:43:00.0	XRT_Custom_430_OG [0x1ae]				
2009/05/21	20:44:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	21:42:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	22:19:30.0	XRT_Custom_430_OG [0x1ae]				
2009/05/21	22:20:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/21	23:21:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/21	23:49:00.0	XRT_Custom_430_OG [0x1ae]				
2009/05/21	23:50:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/22	00:59:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/22	01:27:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/22	02:34:00.0	XRT_CTRL_MANU_435_OG [0x1b3]				

