

# XRT Timeline to be uploaded on 2009/01/24

Period: 2009/01/24 11:23:00 - 2009/01/29 11:14:00

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Normal mode

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XOB #163D: AR thermal (small AR) FOV384x256 AEC4 (low cadence)											
Term	Pointing (x, y)						Comment				
01/24 11:40:32 - 01/24 18:22:54	Track ( 418.6, 577.6) <sup>@ 01/24 11:33:00</sup>	# OP start + 10min, track AR.									
01/24 18:40:32 - 01/25 05:54:24	Track ( 463.9, 575.1) <sup>@ 01/24 18:33:00</sup>	# Cont.									
01/25 06:10:32 - 01/25 17:59:54	Track ( 534.3, 570.3) <sup>@ 01/25 06:04:30</sup>	# Cont.									
01/25 18:16:32 - 01/26 05:35:00	Track ( 601.6, 564.4) <sup>@ 01/25 18:10:00</sup>	# Cont.									
<b>PROG= 02 Inf.-time(s)</b>											
└─ Subr= 1 1-time(s) 2.0sec											
└─ Seqn= 55 1-time(s) 2.0sec											
thin-Be/Open	med-Be/Open	close	Safe	Norm	4.00s	Obs	1x1	384x256 (1024, 1040)	Q=95	4	0 2.0sec
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x256 (1024, 1040)	Q=95	4	0 2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	2.00s	Obs	1x1	384x256 (1024, 1040)	Q=95	4	0 2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	2.00s	Obs	1x1	384x256 (1024, 1040)	Q=98	0	0 2.0sec
└─ Subr= 2 10-time(s) 150.0sec											
└─ Seqn= 32 1-time(s) 2.0sec											
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x256 (1024, 1040)	Q=95	4	0 2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	2.00s	Obs	1x1	384x256 (1024, 1040)	Q=95	4	0 2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval

XOB #15A3: Synoptic Q95 2x2 - Al/poly(512/5795) + Dark cal(512 Q98) + Ti-poly(723/11571) + G-band(16)											
Term	Pointing (x, y)						Comment				
01/24 18:25:00 - 01/24 18:40:00	Fixed ( 0.0, 0.0)	synoptic, shifted 23.0 min									
01/25 05:56:30 - 01/25 06:10:00	Fixed ( 0.0, 0.0)	synoptic, shifted -5.5 min									
01/25 18:02:00 - 01/25 18:16:00	Fixed ( 0.0, 0.0)	synoptic									
01/26 06:14:30 - 01/26 06:58:00	Fixed ( 0.0, 0.0)	synoptic, shifted 12.5 min									
01/26 18:02:00 - 01/27 05:56:24	Fixed ( 0.0, 0.0)	synoptic									
01/27 05:58:30 - 01/29 11:14:00	Track ( 56.1, 0.2) <sup>@ 01/27 05:56:30</sup>	# Cont.									
<b>PROG= 07 1-time(s)</b>											
└─ 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= 6 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
└─ 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 #1640: Eclipse Obs PSF study Al/poly 512FOV DPCM											
Term	Pointing (x, y)						Comment				
01/26 05:35:32 - 01/26 06:12:24	Fixed ( -726.0, 239.0)	* Pointing for eclipse first contact.									
<b>PROG= 17 2-time(s)</b>											
└─ Subr= 1 1-time(s) 30.0sec											
└─ Seqn= 94 69-time(s) 20.0sec											
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	2.00s	Obs	1x1	512x512 (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 #163F: Polar Plume - Ti/Poly, Al/Poly, Al/mesh - 512x512 -2min cadence											
Term	Pointing (x, y)						Comment				
01/26 07:00:06 - 01/26 11:56:45	Fixed ( 0.0, -930.0)	* Eclipse, second contact.									
<b>PROG= 05 Inf.-time(s)</b>											
└─ Subr= 1 1-time(s) 120.0sec											
└─ Seqn= 56 1-time(s) 120.0sec											
Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	16.0s	Obs	1x1	512x512 (1024, 944)	Q=98	0	0 2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	32.0s	Obs	1x1	512x512 (1024, 944)	Q=98	0	0 2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	45.2s	Obs	1x1	512x512 (1024, 944)	Q=98	0	0 2.0sec
└─ Seqn= 43 7-time(s) 120.0sec											
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	45.2s	Obs	1x1	512x512 (1024, 944)	Q=95	0	0 2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	32.0s	Obs	1x1	512x512 (1024, 944)	Q=95	0	0 2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 944)	Q=95	0	0 2.0sec
└─ Subr= 2 1-time(s) 120.0sec											
└─ Seqn= 34 1-time(s) 120.0sec											
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0 15.0sec
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0 15.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0 15.0sec
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0 15.0sec
Open/Al-mesh	Open/Ti-poly	close	Safe	Dark	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0 15.0sec
Open/Al-mesh	Open/Ti-poly	close	Safe	Dark	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0 15.0sec

Subr=	Seqn=	Time(s)	Duration	Filter	Mode	Image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval
<b>Subr= 3      3-time(s)      120.0sec</b>													
<b>Seqn= 43      6-time(s)      120.0sec</b>													
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	45.2s	Obs	1x1	512x512 (1024, 944)	Q=95	0	0	2.0sec
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	32.0s	Obs	1x1	512x512 (1024, 944)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 944)	Q=95	0	0	2.0sec
<b>Seqn= 56      1-time(s)      120.0sec</b>													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	16.0s	Obs	1x1	512x512 (1024, 944)	Q=98	0	0	2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	32.0s	Obs	1x1	512x512 (1024, 944)	Q=98	0	0	2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	45.2s	Obs	1x1	512x512 (1024, 944)	Q=98	0	0	2.0sec
<b>Subr= 2      1-time(s)      120.0sec</b>													
<b>Seqn= 34      1-time(s)      120.0sec</b>													
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0	15.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0	15.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0	15.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0	15.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Dark	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0	15.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Dark	11.3s	Obs	2x2	2048x1536 (1024, 768)	Q=98	0	0	15.0sec
	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

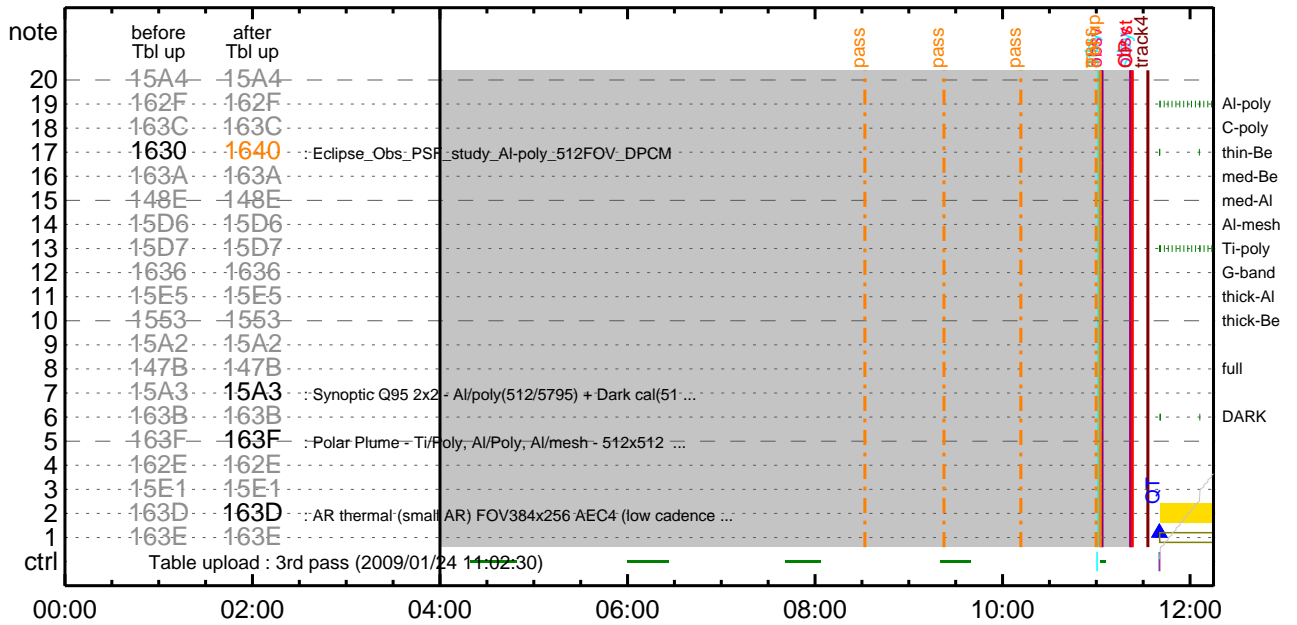
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**Flare Detection**

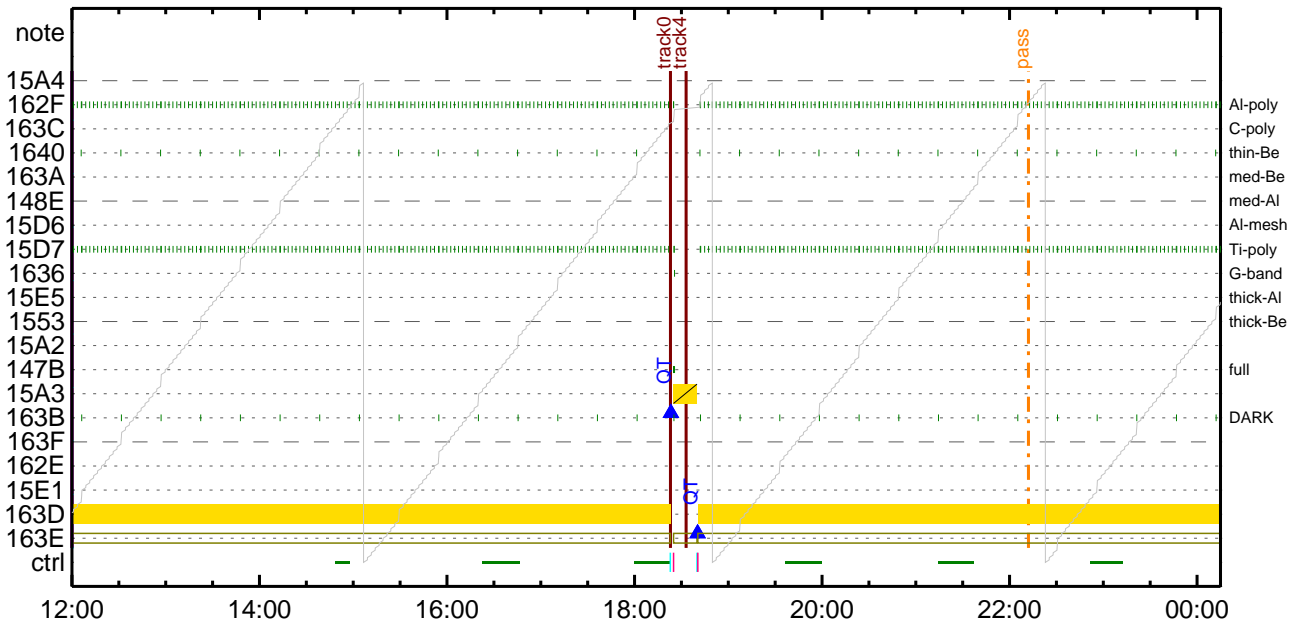
\* \* \* \* \*

NOT USED

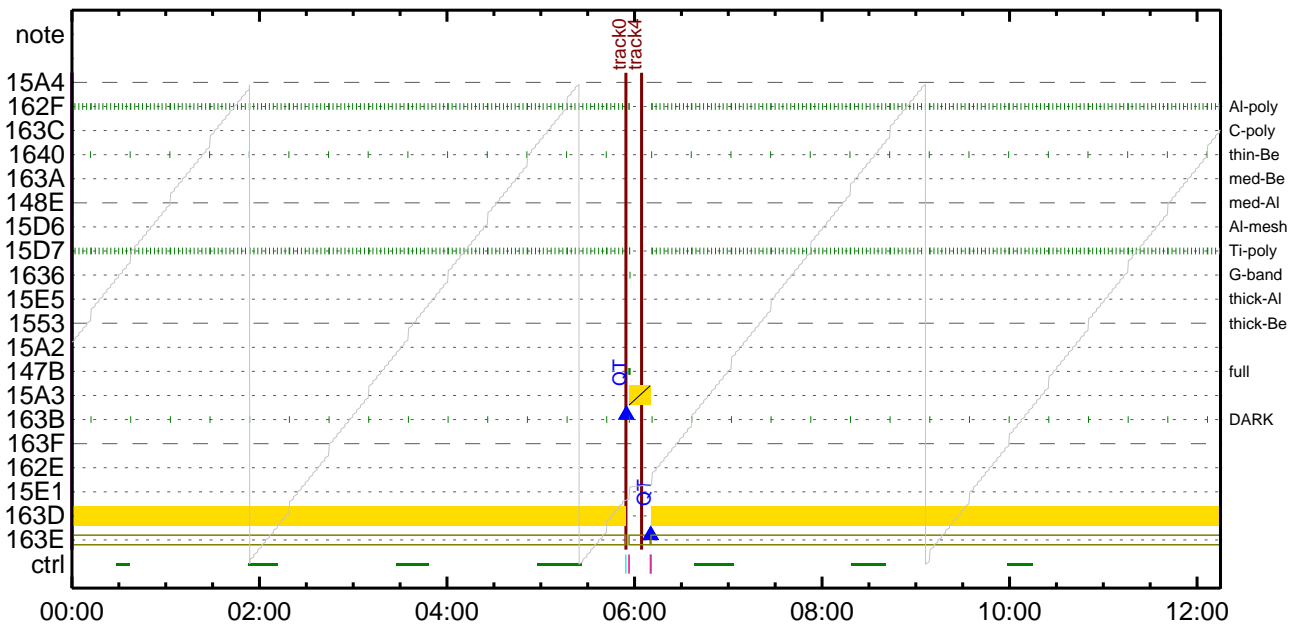
### CMDI #0366 2009/01/24



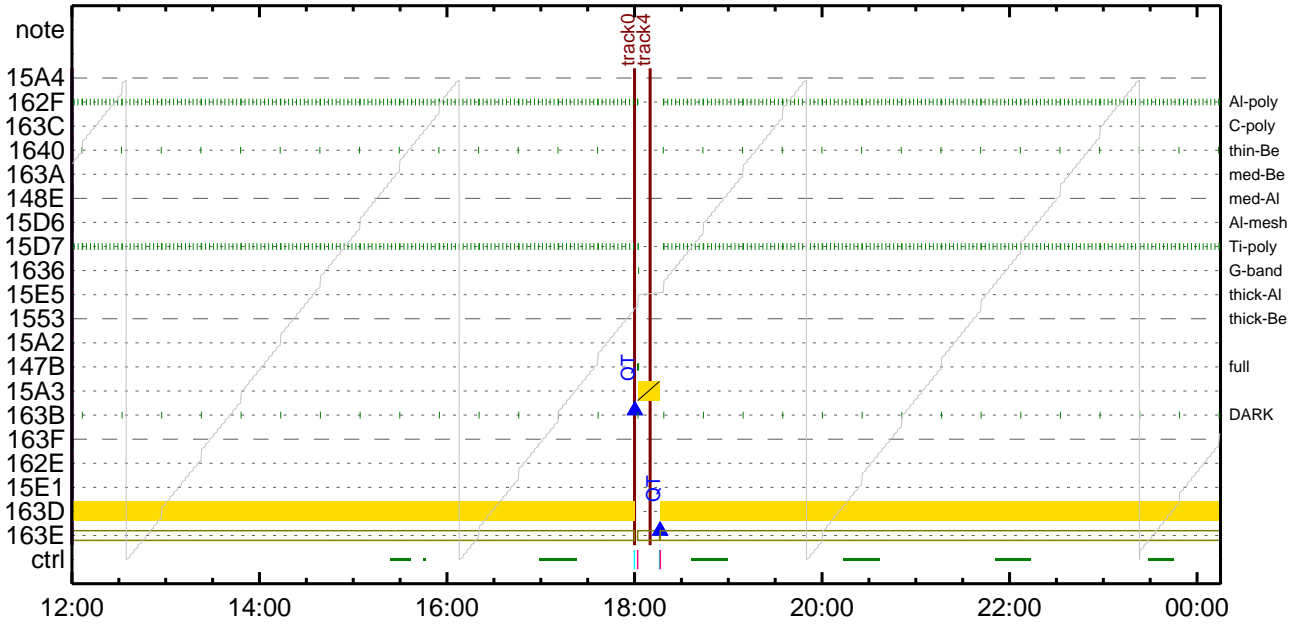
### CMDI #0366 2009/01/24



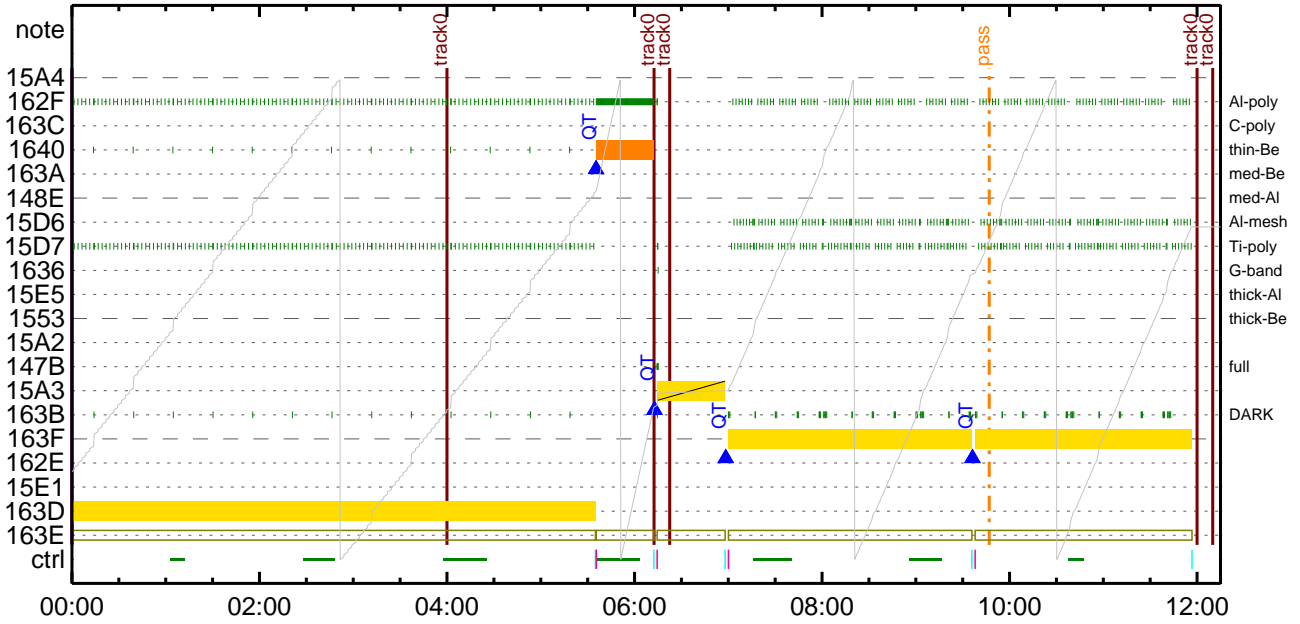
### CMDI #0366 2009/01/25



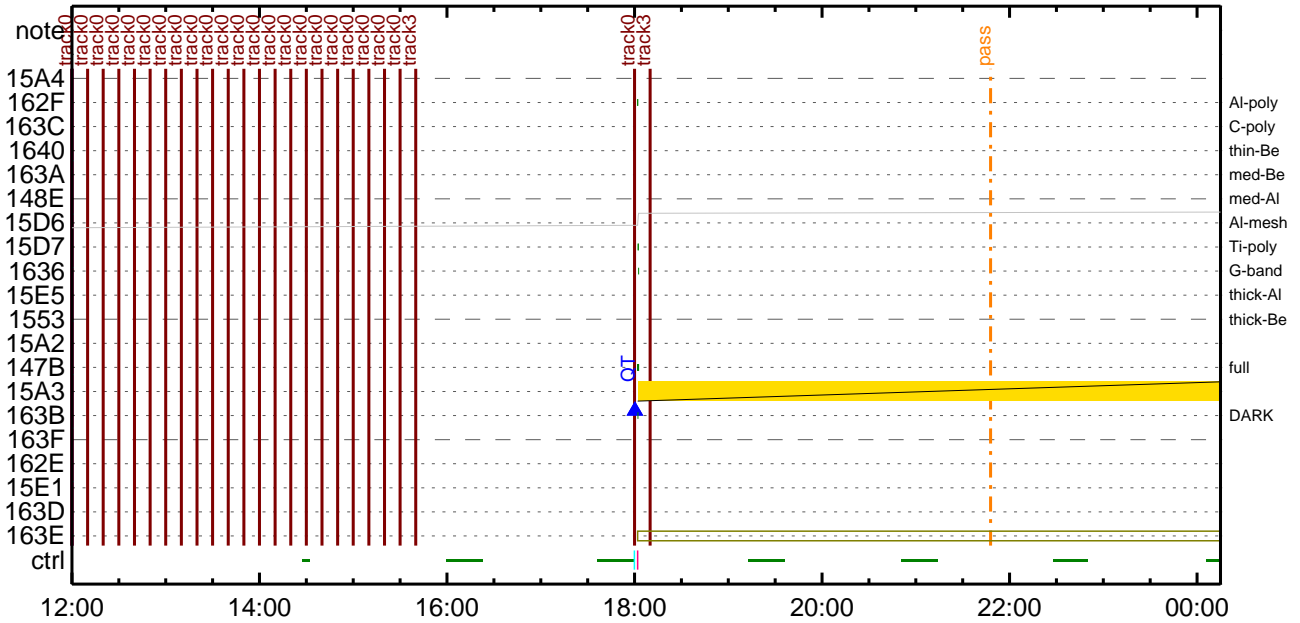
CMDI #0366 2009/01/25



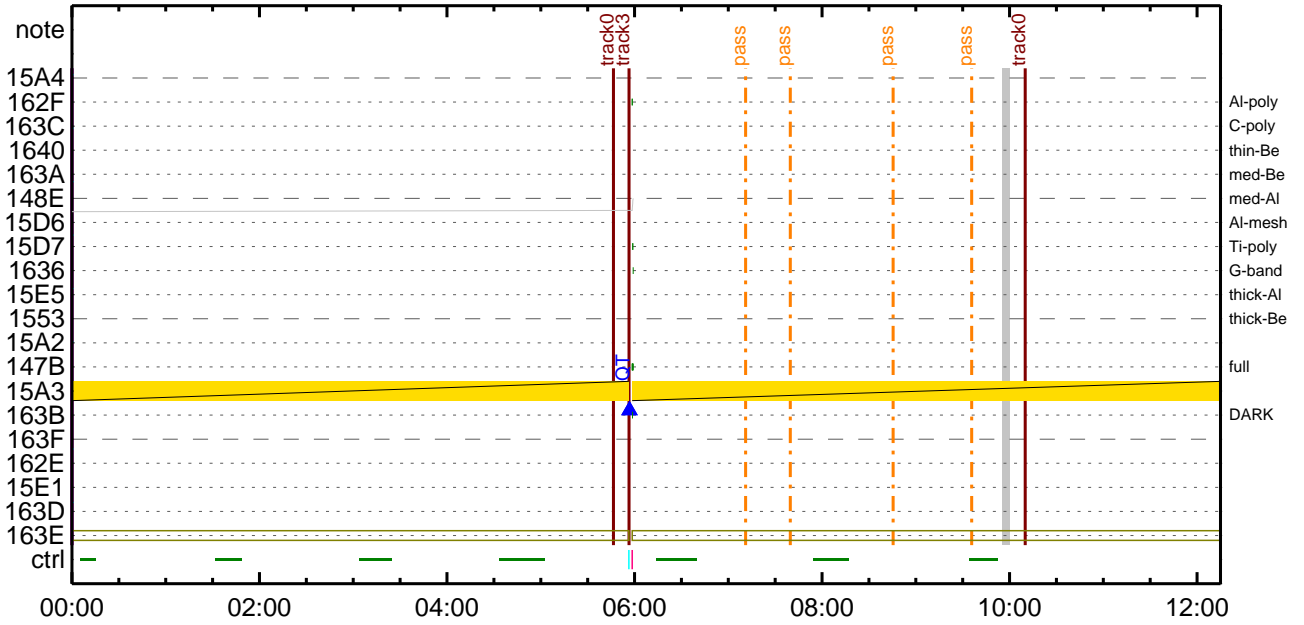
CMDI #0366 2009/01/26



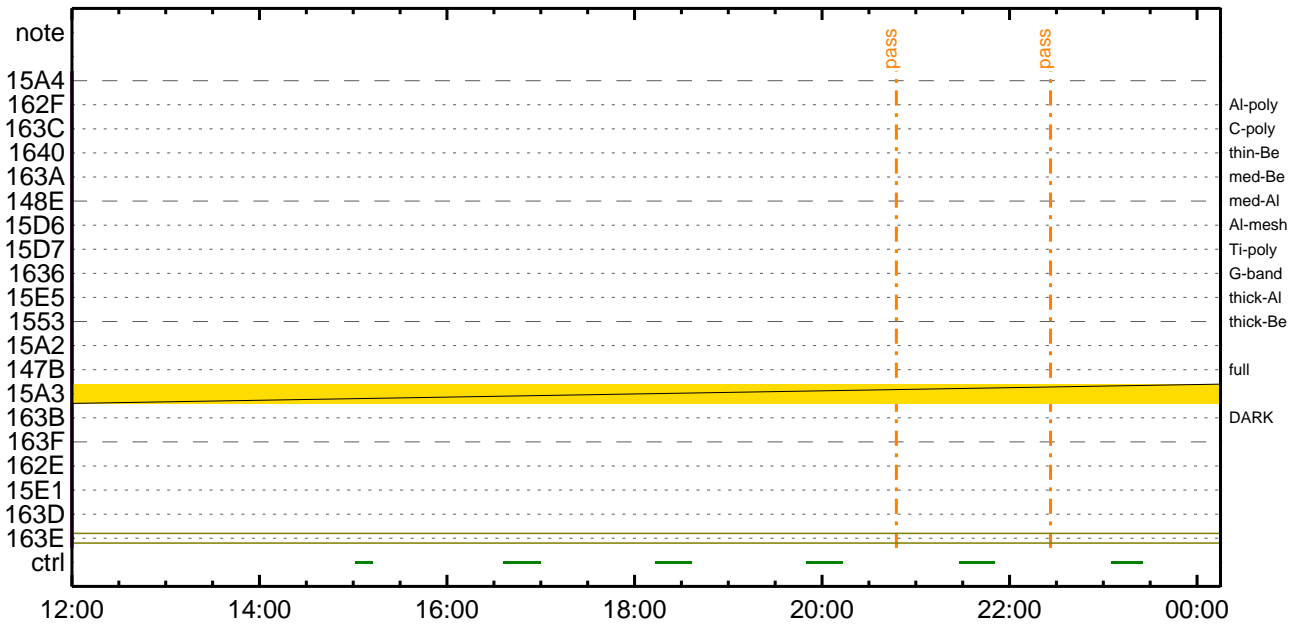
CMDI #0366 2009/01/26



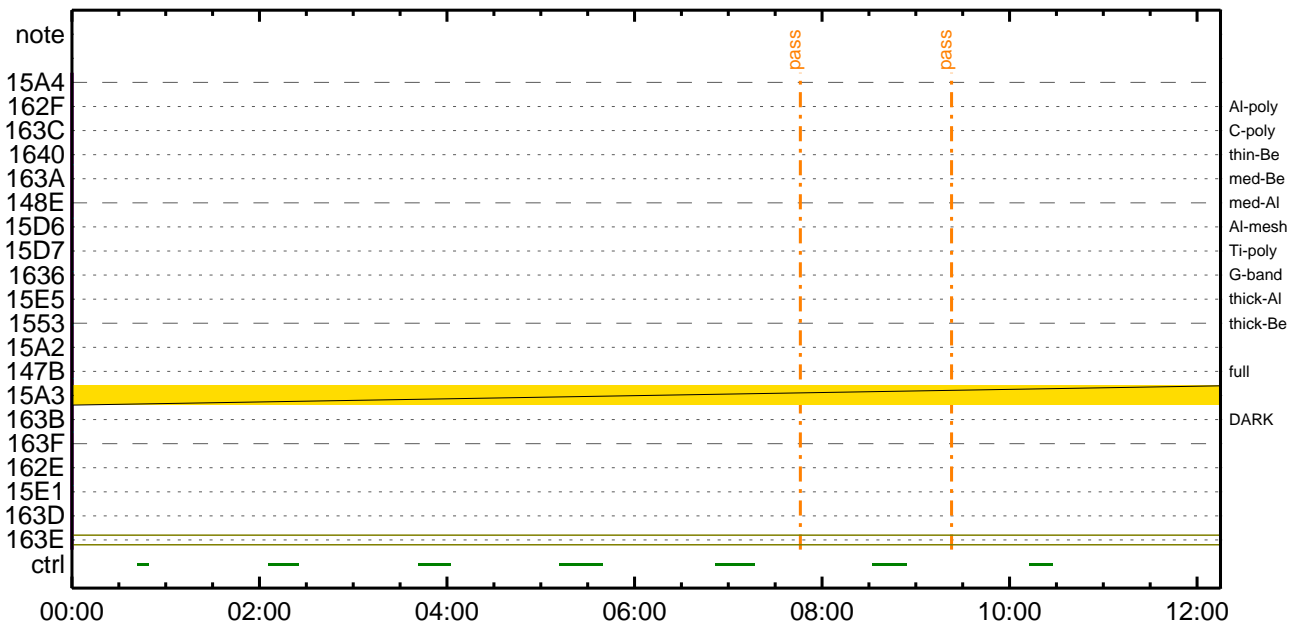
CMDI #0366 2009/01/27



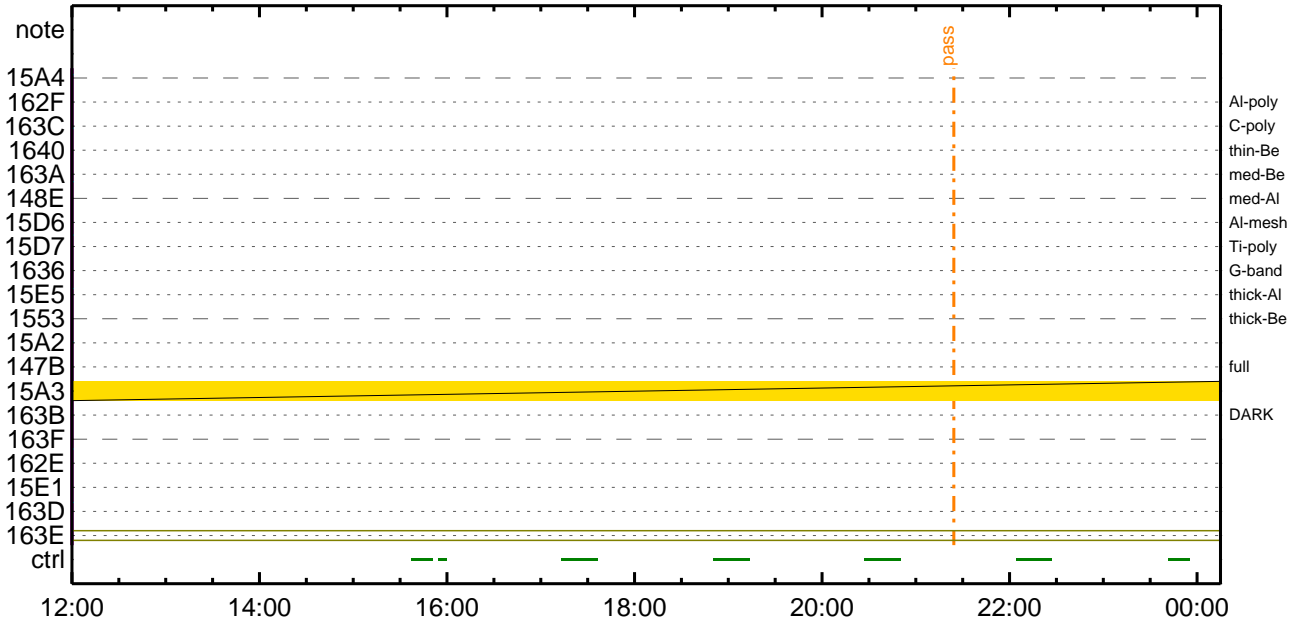
CMDI #0366 2009/01/27



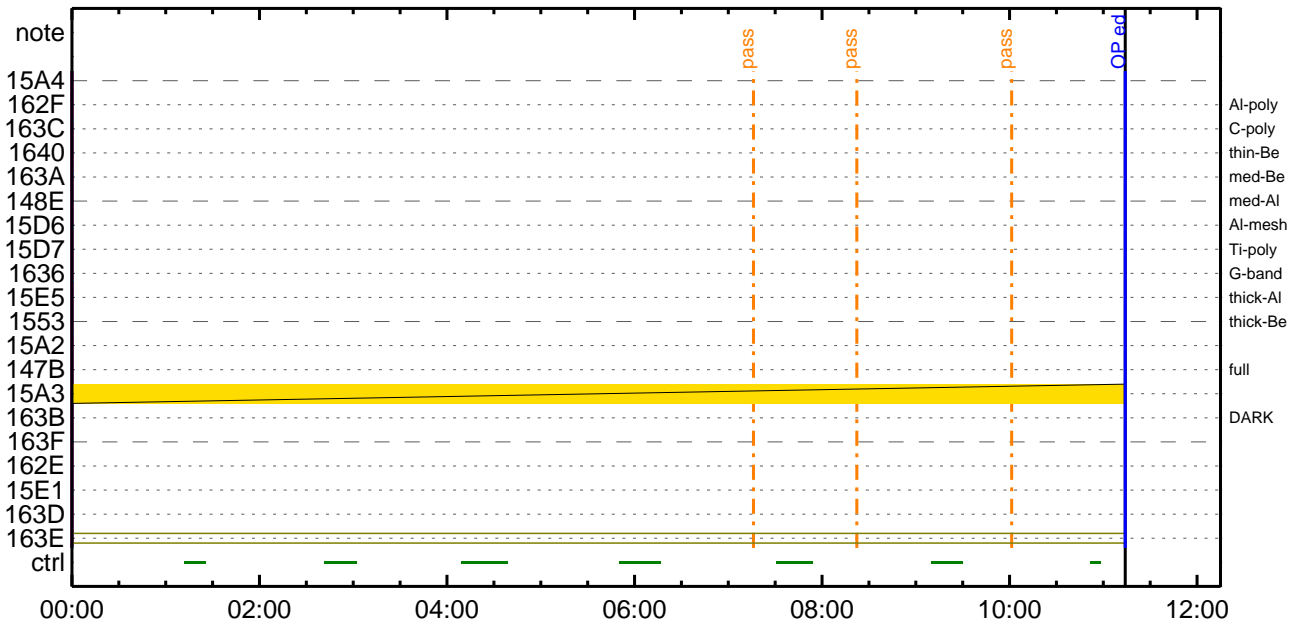
CMDI #0366 2009/01/28



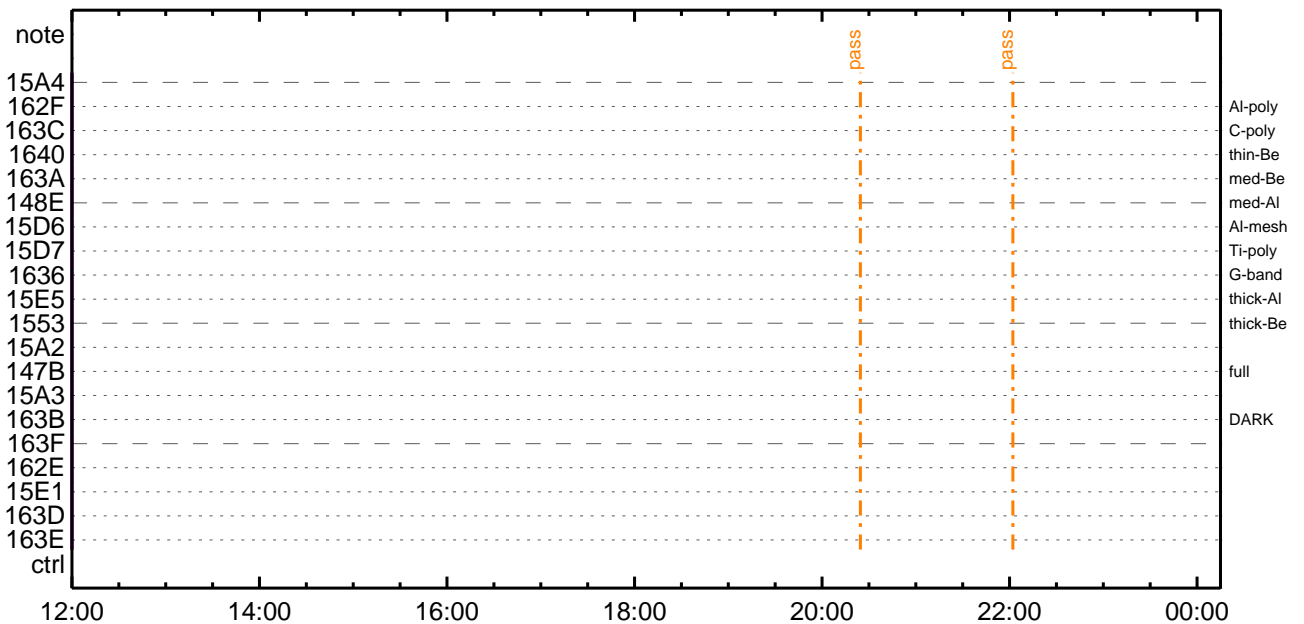
CMDI #0366 2009/01/28



CMDI #0366 2009/01/29



CMDI #0366 2009/01/29





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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOYx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-373:OP
0104 ( )
0105 S. OG og-373:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYOYx;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. YAYOYx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î½E¹ç•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. YAYOYx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î½E¹ç•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. YAYOYx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î½E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** °E²¼òî½A´¶Á°òEÉ-ò°Á÷¿@ (¼âµ-YAYOYx½ê½çòðÁÓÆòÇ¼ª°²òè¼î¹çòçòâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yi;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÷¿@NG²î½i¹ç;ç°E²¼òîTI-CMDÁ÷¿@²î½Á¹Ô²°²E²²²³²E;f
0180 C. ²²²¿;çSET²E²DUMP²î½±²îYÑY¹²ç¹Ô²²²³²E;f
0181 C.
0182 C. TIY³Y²Y³Y²E²òðÁDî¿(UT)
0183 +. TI 2009-01-24 11:18:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2009-01-24 11:18:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2009-01-24 11:18:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

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0194 C.
0195 +. TI 2009-01-24 11:22:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.           çç[HK1_TI_CMD_NUM]                      EQ      1COUNTUP
0198 C.
0199 C. °Ê²¼õİÄê%îíñõîŷÁŷ§ŷÄŷ¹àîŭ
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. Tİİİ°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×½ªî»õ³İÇ§
0226 C.           çç[HK1_DMP_CHK_FLG]                    EQ      NON
0227 C.
0228 . C. RAM ID=TI_TBLõİ¼È¹ç•è²İOKõõ³İÇ§
0229 C.
0230 . C. DHUŷä;¼ŷÈ;È¼ŷ¼. ŷİ;¼ŷÈ;Èõõİäõ¹
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. Stop EIS observation and temporarily disable EIS mode changes
0239 C.
0240 C.
0241 C. ***** Start EIS operation (TI set) *****
0242 C. Execute, after the success of OP upload.
0243 C. Set EIS TI-commands
0244 +. TI 2009-01-24 11:22:30.0
0245 DC 07-FC EIS_MODE_MANU
0246 BC      (21 02)
0247 +. TI 2009-01-24 11:22:40.0
0248 DC 07-FC EIS_MODE_CHG_DIS
0249 BC      (22)
0250 . C.           [ ] [HK1_TI_CMD_NUM]                  EQ      2 COUNTUP
0251 C. ***** End EIS operation (TI set) *****
0252 C.
0253 C.
0254 C.
0255 C. ***** XRT START *****
0256 C. Execute, after the success of OP upload.
0257 +. TI 2009-01-24 11:22:00.0
0258 DC 07-F0 MDP_XRT_MODE_STBY
0259 BC      (c3)
0260 . C.           [ ] [HK1_TI_CMD_NUM]                  EQ      1COUNTUP
0261 C.
0262 C. ***** XRT END *****
0263 C. *****
0264 C. SOT TI command set
0265 C. *****
0266 C. Execute, after the success of OP upload.
0267 +. TI 2009-01-24 11:22:16.0
0268 DC 07-F0 MDP_SOT_MODE_STBY
0269 BC      (41)
0270 . C. -----
0271 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0272 C. -----
0273 C. ***** SOT END *****
0274 C.
0275 . C. ***** MDP ´ûÃîõİ»ö¼ŷõÈÄõõ¹õèDCBC•x²è *****
0276 C. (¼ª°îŷÖŷÄŷÈŷŷŷÄŷçŷèõÈ¼õõ¼Ä»Ūõ¹õè)
0277 . S. DC-BC dcbc-402:DCBC
0278 (MDP_known_event)
0279 C.
0280 C.
0281 . C. ***** ŷĐŷ¹•İ Daily±çİñõÈ´Øõ¹õèDCBC•x²è *****
0282 . S. DC-BC dcbc-153:DCBC
0283 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 . C. ;ãLOSŷÄŷ§ŷÄŷ¹¼Ä»Ū;ã
0287 C.
0288 . C. ***** LOS *****
0289 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-374 2009-01-24 14:44:27 82 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÀY$;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;Èõ¿ðÃø•µºÈ»Í×ÁÇøÍYçYÁY×YÍ;¼YÉ;ÈÈ%µ•íÉ;ÈõÈºÇÔø•ø¿¼í¹çøÍ;çÀ®, ùø¹øÈøÈøÇÁ+¿®ø•øÈøøøøøøÈ;ñ
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_ST$1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCS Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCSDUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0046 +. DC 07-FC EIS_MODE_MANU
0047 BC (21 02)
0048 . C. Verify EIS in MANUAL mode
0049 . C. Estimated OBSTBL upload time is 30s
0050 C. *****
0051 C. EIS START OBSTBL LOAD
0052 C. *****
0053 . S. RAM ram-820:EIS_OBSTBL
0054 ( )
0055 +. DC 07-FC EIS_DUMP_OBSTBL
0056 BC (07 07 07 00 00 70 00)
0057 C.
0058 C. Execute, after the success of OBSTBL upload.
0059 C. Set EIS TI-commands
0060 +. TI 2009-01-24 11:22:50.0
0061 DC 07-FC EIS_MODE_CHG_ENA
0062 BC (20)
0063 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0064 C. *****
0065 C. EIS END OBSTBL LOAD
0066 C. *****
0067 C.
0068 . C. ***** MDP `ûÁîòí»ó¼YøÈÄø¹øÈDCBC•x²è *****
0069 C. (¼áºíYÓYÁYBYB¸YÉYáYçYÈøE¼ø¼¼Á»Ûø¹øÈ)
0070 . S. DC-BC dcbc-402:DCBC
0071 (MDP_known_event)
0072 C.
0073 C.
0074 . C. ***** YDY¹.İ Daily±¿ÍÑøÈ`Øø¹øÈDCBC•x²è *****
0075 . S. DC-BC dcbc-153:DCBC
0076 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0077 C.
0078 C.
0079 . C. ;ãLOSÁY$YÁY~¼Á»Û;ã
0080 C.
0081 . C. ***** LOS *****
0082 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-375 2009-01-24 14:44:27 132 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿øÀø•µ°È»Í×ÁÇøíYçYÁY×Yí;¼YÉ;ÈÈè%µ•ííÉ;ÈøÈ¼°ÇÓø•ø¿¼í¹çøí;çÀ®, ùø¹øÈøÈøÇÁ+¿®ø•øÈøøøøøÈ;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 82 06 04)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 80 80 20 20)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 08 08)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 80 76 08 08)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0a 80 60 20 18)
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 2009-01-24 11:22:02.0
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-261: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. < Stop SP table >
0089 +. DC 07-F0 MDP_SP_CTRL_MANU
0090 BC (61)
0091 C. -----
0092 C. MDP_SP_CTRL_MODE = MANU [ ]
0093 C. -----
0094 C.
0095 . C. <Upload SP Observation Table>
```

```
0096 . S. RAM ram-287:MDP_OBS_S
0097 ( )
0098 C.
0099 . C. < Dump RAMID=MDP_OBS_S >
0100 +. DC 07-F0 MDP_DUMP_SPTBL
0101 BC (83 07 00 00 00 38 b8)
0102 C. -----
0103 C. MDP_OBS_S verify = OK/NG [ ]
0104 C. -----
0105 C.
0106 C. *****
0107 C. SOT TI command set
0108 C. *****
0109 C. Execute, after the success of TBL upload.
0110 +. TI 2009-01-24 11:22:18.0
0111 DC 07-F0 MDP_SOT_MODE_OBSV
0112 BC (40)
0113 C. -----
0114 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0115 C. -----
0116 C.
0117 C.
0118 . C. ***** MDP 'ûÃîñî»ö¼ÿñÊÂñ¹ñèDCBC•x²è *****
0119 C. (¼ã°îÿÔÿÃÿÊÿPÿËÿÿ¼ÿçÿèñ¼¼ã»Û¹ñè)
0120 . S. DC-BC dcbc-402:DCBC
0121 (MDP_known_event)
0122 C.
0123 C.
0124 . C. ***** ÿDÿ¹•î Daily±;îÑñÊ'Ø¹ñèDCBC•x²è *****
0125 . S. DC-BC dcbc-153:DCBC
0126 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0127 C.
0128 C.
0129 . C. ;ãLOSÿÃÿSÿÿÿ¼ã»Û;ã
0130 C.
0131 . C. ***** LOS *****
0132 C.
```

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

2009/01/24	11:33:00.0	AOCS_OrE-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04	00	00	00	00
2009/01/24	11:40:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0					c1
2009/01/24	11:40:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97		00
2009/01/24	11:40:22.0	XRT_QT_PROG_SET_414_OG [0x19e]							
		MDP_XRT_QT_PROG_SET	2	07-F0					c4 02
2009/01/24	11:40:24.0	XRT_AEC_RESET_415_OG [0x19f]							
		MDP_XRT_AEC_RESET	1	07-F0					d0
2009/01/24	11:40:26.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0					d5
2009/01/24	11:40:28.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0					d9
2009/01/24	11:40:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0					c9
2009/01/24	11:40:32.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0					c0
2009/01/24	18:22:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0					c1
2009/01/24	18:22:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa		00
2009/01/24	18:23:00.0	AOCS_OrE-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00	00	00	00	00
2009/01/24	18:23:16.0	XRT_QT_PROG_SET_408_OG [0x198]							
		MDP_XRT_QT_PROG_SET	2	07-F0					c4 07
2009/01/24	18:23:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0					d9
2009/01/24	18:23:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0					c9
2009/01/24	18:23:22.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0					d5
2009/01/24	18:25:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0					c0
2009/01/24	18:33:00.0	AOCS_OrE-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04	00	00	00	00
2009/01/24	18:40:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0					c1
2009/01/24	18:40:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97		00
2009/01/24	18:40:22.0	XRT_QT_PROG_SET_414_OG [0x19e]							
		MDP_XRT_QT_PROG_SET	2	07-F0					c4 02
2009/01/24	18:40:24.0	XRT_AEC_RESET_415_OG [0x19f]							
		MDP_XRT_AEC_RESET	1	07-F0					d0
2009/01/24	18:40:26.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0					d5
2009/01/24	18:40:28.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0					d9
2009/01/24	18:40:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0					c9
2009/01/24	18:40:32.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0					c0
2009/01/25	05:54:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0					c1
2009/01/25	05:54:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa		00
2009/01/25	05:54:30.0	AOCS_OrE-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00	00	00	00	00
2009/01/25	05:54:46.0	XRT_QT_PROG_SET_408_OG [0x198]							
		MDP_XRT_QT_PROG_SET	2	07-F0					c4 07
2009/01/25	05:54:48.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0					d9
2009/01/25	05:54:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0					c9
2009/01/25	05:54:52.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0					d5
2009/01/25	05:56:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0					c0
2009/01/25	06:04:30.0	AOCS_OrE-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04	00	00	00	00
2009/01/25	06:10:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0					c1
2009/01/25	06:10:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97		00
2009/01/25	06:10:22.0	XRT_QT_PROG_SET_414_OG [0x19e]							
		MDP_XRT_QT_PROG_SET	2	07-F0					c4 02
2009/01/25	06:10:24.0	XRT_AEC_RESET_415_OG [0x19f]							
		MDP_XRT_AEC_RESET	1	07-F0					d0
2009/01/25	06:10:26.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0					d5
2009/01/25	06:10:28.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0					d9
2009/01/25	06:10:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0					c9
2009/01/25	06:10:32.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0					c0
2009/01/25	17:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0					c1
2009/01/25	17:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa		00
2009/01/25	18:00:00.0	AOCS_OrE-point_Start_2_OG [0x098]							

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2009/01/25	18:00:16.0	XRT_QT_PROG_SET_408_OG [0x198]	AOCU_NM	5	02-76	00	00	00	00	00
		MDP_XRT_QT_PROG_SET		2	07-F0	c4	07			
2009/01/25	18:00:18.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/25	18:00:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/25	18:00:22.0	XRT_ARS_DIS_427_OG [0x1ab]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/25	18:02:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/25	18:10:00.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	04	00	00	00	00
2009/01/25	18:16:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/25	18:16:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2009/01/25	18:16:22.0	XRT_QT_PROG_SET_414_OG [0x19e]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	02			
2009/01/25	18:16:24.0	XRT_AEC_RESET_415_OG [0x19f]	MDP_XRT_AEC_RESET	1	07-F0	d0				
2009/01/25	18:16:26.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/25	18:16:28.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/25	18:16:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/25	18:16:32.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/26	04:00:00.0	AOCS_Ore-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00	ea	c1	40	8b
2009/01/26	05:35:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/26	05:35:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2009/01/26	05:35:22.0	XRT_QT_PROG_SET_423_OG [0x1a7]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	11			
2009/01/26	05:35:24.0	XRT_AEC_RESET_415_OG [0x19f]	MDP_XRT_AEC_RESET	1	07-F0	d0				
2009/01/26	05:35:26.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/26	05:35:28.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/26	05:35:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/26	05:35:32.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/26	06:12:24.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/26	06:12:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2009/01/26	06:12:30.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00	00
2009/01/26	06:12:46.0	XRT_QT_PROG_SET_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	07			
2009/01/26	06:12:48.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/26	06:12:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/26	06:12:52.0	XRT_ARS_DIS_427_OG [0x1ab]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/26	06:14:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/26	06:22:30.0	AOCS_Ore-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	00	52	a7	00	00
2009/01/26	06:58:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/26	06:58:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2009/01/26	06:58:22.0	XRT_QT_PROG_SET_402_OG [0x192]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	05			
2009/01/26	06:58:24.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/26	06:58:26.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/26	06:58:28.0	XRT_ARS_DIS_427_OG [0x1ab]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/26	07:00:06.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/26	09:35:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/26	09:35:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2009/01/26	09:36:16.0	XRT_QT_PROG_SET_402_OG [0x192]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	05			
2009/01/26	09:36:18.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/26	09:36:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/26	09:36:22.0	XRT_ARS_DIS_427_OG [0x1ab]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/26	09:38:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				

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2009/01/26	11:56:45.0	XRT_CTRL_MANU_428_OG [0x1ac] MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/26	12:00:00.0	AOCS_ORe-point_Start_5_OG [0x09b] AOCU_NM	5	02-76	00 eb e8 51 81				
2009/01/26	12:10:00.0	AOCS_ORe-point_Start_6_OG [0x09c] AOCU_NM	5	02-76	00 e4 8c 40 72				
2009/01/26	12:20:00.0	AOCS_ORe-point_Start_7_OG [0x09d] AOCU_NM	5	02-76	00 e3 1b 30 18				
2009/01/26	12:30:00.0	AOCS_ORe-point_Start_8_OG [0x09e] AOCU_NM	5	02-76	00 e2 36 1f 64				
2009/01/26	12:40:00.0	AOCS_ORe-point_Start_9_OG [0x09f] AOCU_NM	5	02-76	00 e1 cb 0e 66				
2009/01/26	12:50:00.0	AOCS_ORe-point_Start_10_OG [0x0a0] AOCU_NM	5	02-76	00 e1 b3 fd 0f				
2009/01/26	13:00:00.0	AOCS_ORe-point_Start_11_OG [0x0a1] AOCU_NM	5	02-76	00 e1 cb f1 9a				
2009/01/26	13:10:00.0	AOCS_ORe-point_Start_12_OG [0x0a2] AOCU_NM	5	02-76	00 e2 36 e0 9c				
2009/01/26	13:20:00.0	AOCS_ORe-point_Start_13_OG [0x0a3] AOCU_NM	5	02-76	00 e3 1b cf e8				
2009/01/26	13:30:00.0	AOCS_ORe-point_Start_14_OG [0x0a4] AOCU_NM	5	02-76	00 e4 8c bf 8e				
2009/01/26	13:40:00.0	AOCS_ORe-point_Start_15_OG [0x0a5] AOCU_NM	5	02-76	00 eb e8 ae 7f				
2009/01/26	13:50:00.0	AOCS_ORe-point_Start_16_OG [0x0a6] AOCU_NM	5	02-76	00 14 18 51 81				
2009/01/26	14:00:00.0	AOCS_ORe-point_Start_17_OG [0x0a7] AOCU_NM	5	02-76	00 11 81 42 4d				
2009/01/26	14:10:00.0	AOCS_ORe-point_Start_18_OG [0x0a8] AOCU_NM	5	02-76	00 10 18 32 66				
2009/01/26	14:20:00.0	AOCS_ORe-point_Start_19_OG [0x0a9] AOCU_NM	5	02-76	00 0f 33 22 0c				
2009/01/26	14:30:00.0	AOCS_ORe-point_Start_20_OG [0x0aa] AOCU_NM	5	02-76	00 0e a7 11 26				
2009/01/26	14:40:00.0	AOCS_ORe-point_Start_21_OG [0x0ab] AOCU_NM	5	02-76	00 0e 7e ff cf				
2009/01/26	14:50:00.0	AOCS_ORe-point_Start_22_OG [0x0ac] AOCU_NM	5	02-76	00 0e a7 ee da				
2009/01/26	15:00:00.0	AOCS_ORe-point_Start_23_OG [0x0ad] AOCU_NM	5	02-76	00 0f 33 dd f4				
2009/01/26	15:10:00.0	AOCS_ORe-point_Start_24_OG [0x0ae] AOCU_NM	5	02-76	00 10 18 cd 9a				
2009/01/26	15:20:00.0	AOCS_ORe-point_Start_25_OG [0x0af] AOCU_NM	5	02-76	00 11 81 bd b3				
2009/01/26	15:30:00.0	AOCS_ORe-point_Start_26_OG [0x0b0] AOCU_NM	5	02-76	00 14 18 ae 7f				
2009/01/26	15:40:00.0	AOCS_ORe-point_Start_27_OG [0x0b1] AOCU_NM	5	02-76	03 00 00 00 00				
2009/01/26	17:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac] MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/26	17:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba] XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/01/26	18:00:00.0	AOCS_ORe-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00				
2009/01/26	18:00:16.0	XRT_QT_PROG_SET_408_OG [0x198] MDP_XRT_QT_PROG_SET	2	07-F0	c4 07				
2009/01/26	18:00:18.0	XRT_FLD_DIS_419_OG [0x1a3] MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/26	18:00:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf] MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/26	18:00:22.0	XRT_ARS_DIS_427_OG [0x1ab] MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/26	18:02:00.0	XRT_CTRL_AUTO_444_OG [0x1bc] MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/26	18:10:00.0	AOCS_ORe-point_Start_27_OG [0x0b1] AOCU_NM	5	02-76	03 00 00 00 00				
2009/01/27	05:46:30.0	AOCS_ORe-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00				
2009/01/27	05:56:24.0	XRT_CTRL_MANU_428_OG [0x1ac] MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/27	05:56:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba] XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/01/27	05:56:30.0	AOCS_ORe-point_Start_27_OG [0x0b1] AOCU_NM	5	02-76	03 00 00 00 00				
2009/01/27	05:56:46.0	XRT_QT_PROG_SET_408_OG [0x198] MDP_XRT_QT_PROG_SET	2	07-F0	c4 07				
2009/01/27	05:56:48.0	XRT_FLD_DIS_419_OG [0x1a3] MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/27	05:56:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf] MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/27	05:56:52.0	XRT_ARS_DIS_427_OG [0x1ab] MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/27	05:58:30.0	XRT_CTRL_AUTO_444_OG [0x1bc] MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/27	10:10:00.0	AOCS_ORe-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00				