

Period: 2009/01/22 10:10:00 - 2009/01/27 10:00:00

XOB #163D: AR thermal (small AR) FOV384x256 AEC4 (low cadence)													
Term		Pointing (x, y)						Comment					
01/22 18:47:30 - 01/23 04:54:54		Track (121.5, 585.9)		@ 01/22 18:09:30		# Track AR cont							
01/23 16:12:00 - 01/23 18:01:54		Track (284.5, 582.9)		@ 01/23 16:10:00		AR track							
01/23 18:14:00 - 01/24 05:32:54		Track (299.1, 582.5)		@ 01/23 18:12:00		# AR track cont							
01/24 05:45:00 - 01/24 11:32:54		Track (379.5, 579.5)		@ 01/24 05:43:00		#AR track cont							
PROG= 02 Inf.-time(s) 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 #163F: Polar Plume - Ti/Poly, Al/Poly, Al/mesh - 512x512 -2min cadence													
Term			Pointing (x, y)					Comment					
01/23 04:57:00 - 01/23 05:59:54			Track (121.5, 585.9) @ 01/22 18:09:30					# Track AR cont					
PROG= 05 1-time(s)													
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= 3 3-time(s) 120.0sec													
Seqn= 43 6-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
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
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
Default Filter		Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #15D7: Synoptic Q95 2x2 - Al/mesh(362/5795) + Dark cal(512 Q98) + Ti-poly(512/11571) + G-band(16)												
Term		Pointing (x, y)				Comment						
01/23 06:02:00 - 01/23 06:09:54		Fixed (0.0, 0.0)				synoptic						
01/24 05:35:00 - 01/24 05:42:54		Fixed (0.0, 0.0)				synoptic, shifted -27.0 min						
PROG= 13 1-time(s)												
└ Subr= 1 1-time(s) 12.0sec												
└ Seqn= 29 1-time(s) 4.0sec												
└ Open/Al-mesh		Open/Ti-poly		close	Safe	Norm	354ms	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= 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= 4 1-time(s) 4.0sec												
└ Open/Ti-poly		Open/thick-Al		close	Safe	Norm	500ms	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 #15E5: G-Band Q90 2x2 FFI for Co-align. data and Al/Poly - C/Poly												
Term			Pointing (x, y)					Comment				
01/23 06:12:00 - 01/23 06:39:54			Fixed (0.0, 930.7)					# HOP79 Irradiance scan 1/20				
01/23 06:42:00 - 01/23 07:09:54			Fixed (0.0, 831.2)					2/20				
01/23 07:12:00 - 01/23 07:39:54			Fixed (0.0, 731.7)					3/20				
01/23 07:42:00 - 01/23 08:09:54			Fixed (0.0, 632.1)					4/20				
01/23 08:12:00 - 01/23 08:39:54			Fixed (0.0, 532.6)					5/20				
01/23 08:42:00 - 01/23 09:09:54			Fixed (0.0, 433.1)					6/20				
01/23 09:12:00 - 01/23 09:39:54			Fixed (0.0, 333.5)					7/20				
01/23 09:42:00 - 01/23 10:09:54			Fixed (0.0, 234.0)					8/20				
01/23 10:12:00 - 01/23 10:39:54			Fixed (0.0, 134.5)					9/20				
01/23 10:42:00 - 01/23 11:09:54			Fixed (0.0, 34.9)					10/20				
01/23 11:12:00 - 01/23 11:39:54			Fixed (0.0, -34.9)					11/20				
01/23 11:42:00 - 01/23 12:09:54			Fixed (0.0, -134.5)					12/20				
01/23 12:12:00 - 01/23 12:39:54			Fixed (0.0, -234.0)					13/20				

01/23 12:42:00 - 01/23 13:09:54	Fixed (	0.0, -333.5)	14/20
01/23 13:12:00 - 01/23 13:39:54	Fixed (	0.0, -433.1)	15/20
01/23 13:42:00 - 01/23 14:09:54	Fixed (	0.0, -532.6)	16/20
01/23 14:12:00 - 01/23 14:39:54	Fixed (	0.0, -632.1)	17/20
01/23 14:42:00 - 01/23 15:09:54	Fixed (	0.0, -731.7)	18/20
01/23 15:12:00 - 01/23 15:39:54	Fixed (	0.0, -831.2)	19/20
01/23 15:42:00 - 01/23 16:09:54	Fixed (	0.0, -930.7)	20/20
PROG= 11 1-time(s)			
└ Subr= 1 1-time(s) 120.0sec			
└└ Seqn= 54 1-time(s) 2.0sec			
└└└ Open/G-band Open/G-band open Safe Norm 16ms Obs 2x2 2048x2048 (1024, 1024) Q=90 0 0 2.0sec			
└ Subr= 2 1-time(s) 2.0sec			
└└ Seqn= 5 99-time(s) 120.0sec			
└└└ Al-poly/Open Al-poly/Open close Safe Norm 5.66s Obs 1x1 384x384 (1024, 1024) Q=90 0 0 2.0sec			
└└└ C-poly/Open C-poly/Open close Safe Norm 5.66s Obs 1x1 384x384 (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

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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

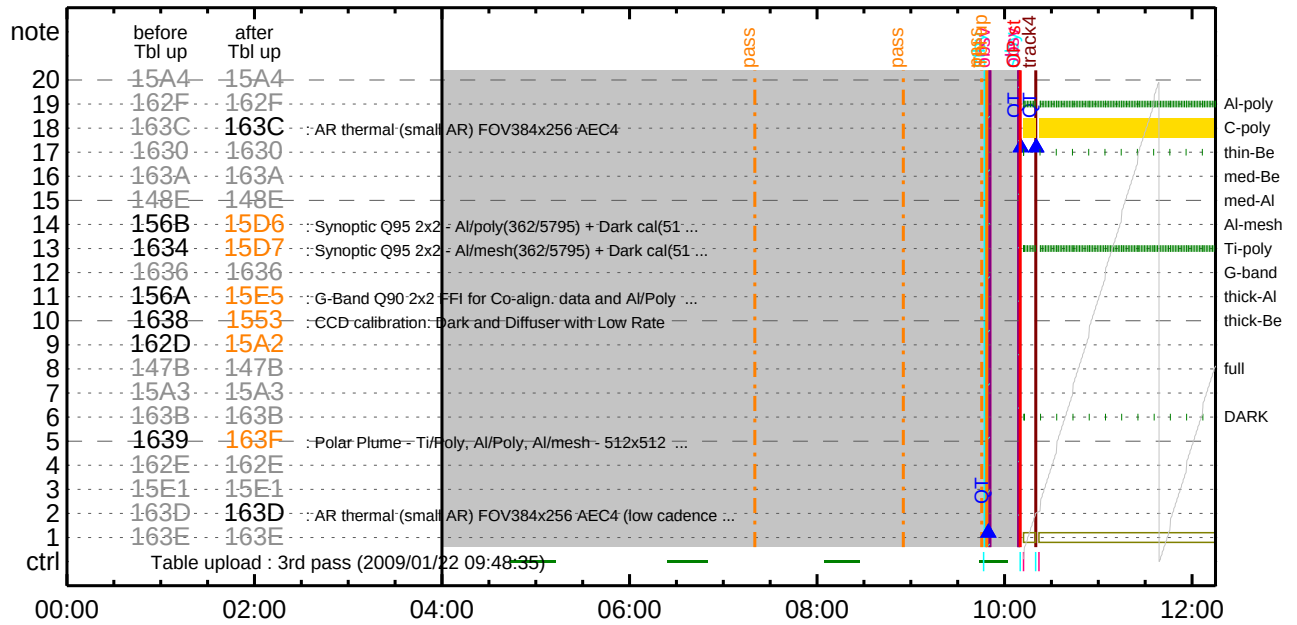
* * * * *

Flare Detection

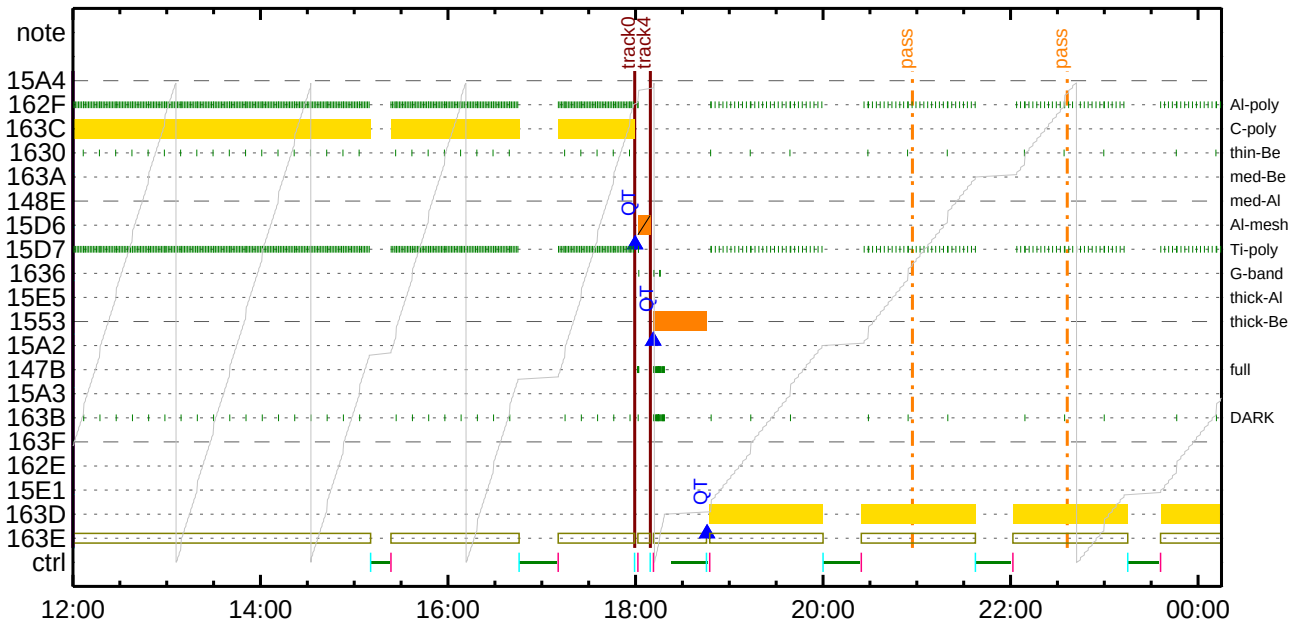
* * * * *

NOT USED

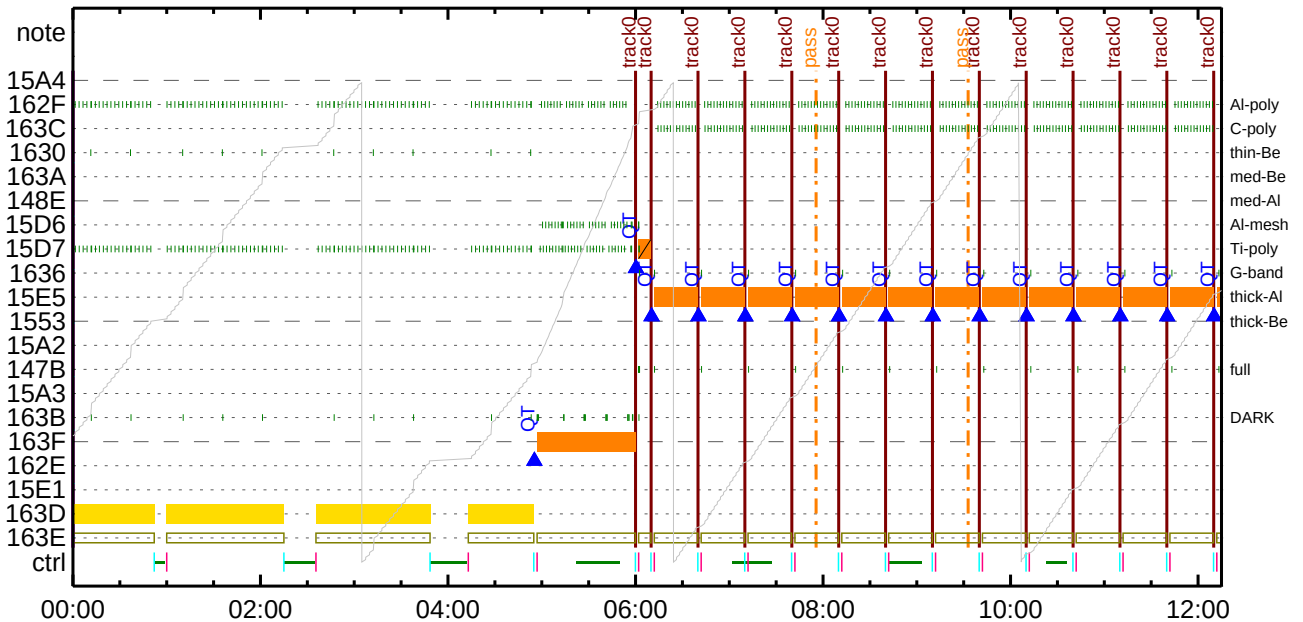
CMDI #0356 2009/01/22



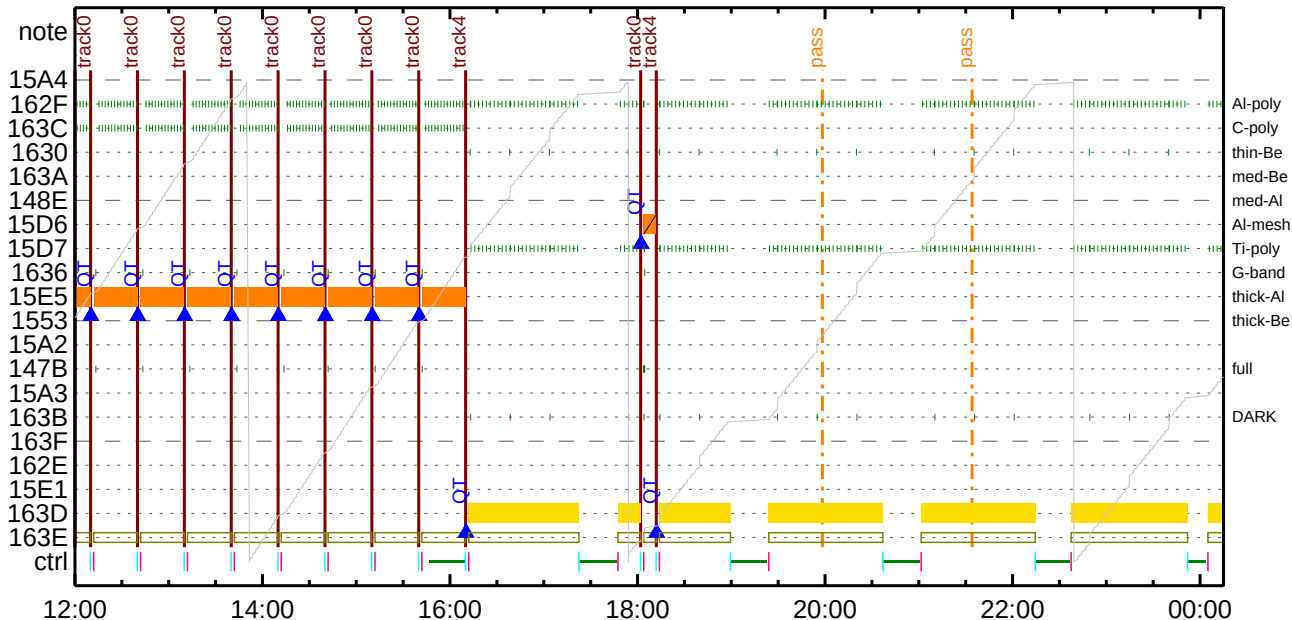
CMDI #0356 2009/01/22



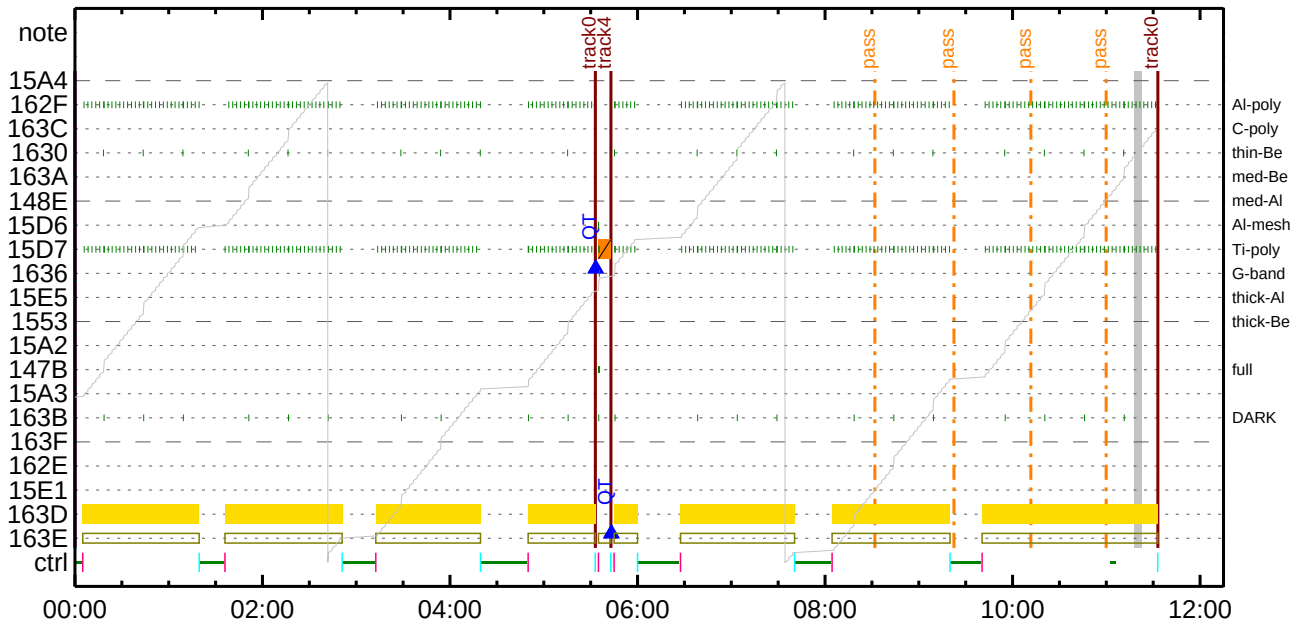
CMDI #0356 2009/01/23



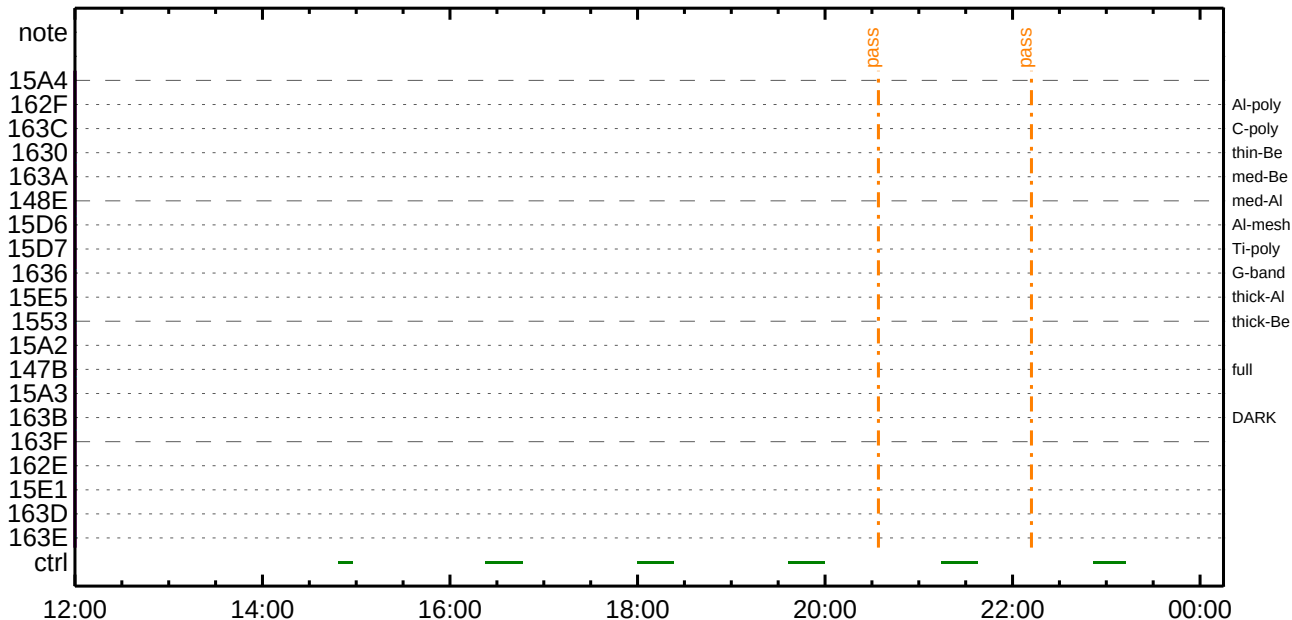
CMDI #0356 2009/01/23



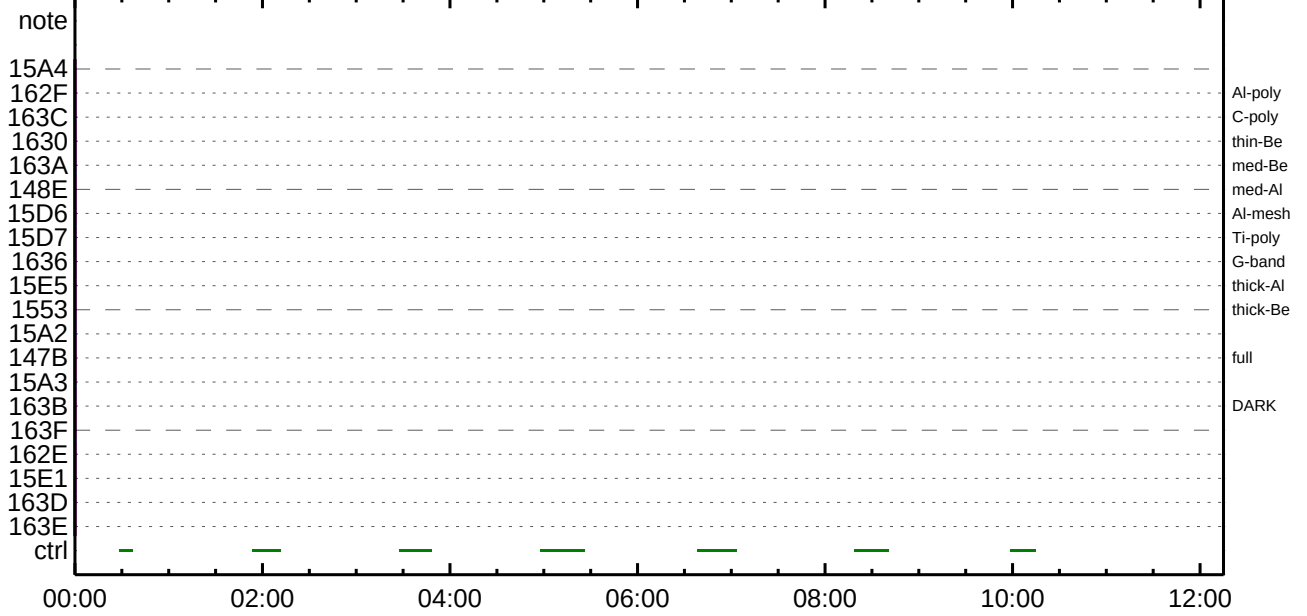
CMDI #0356 2009/01/24



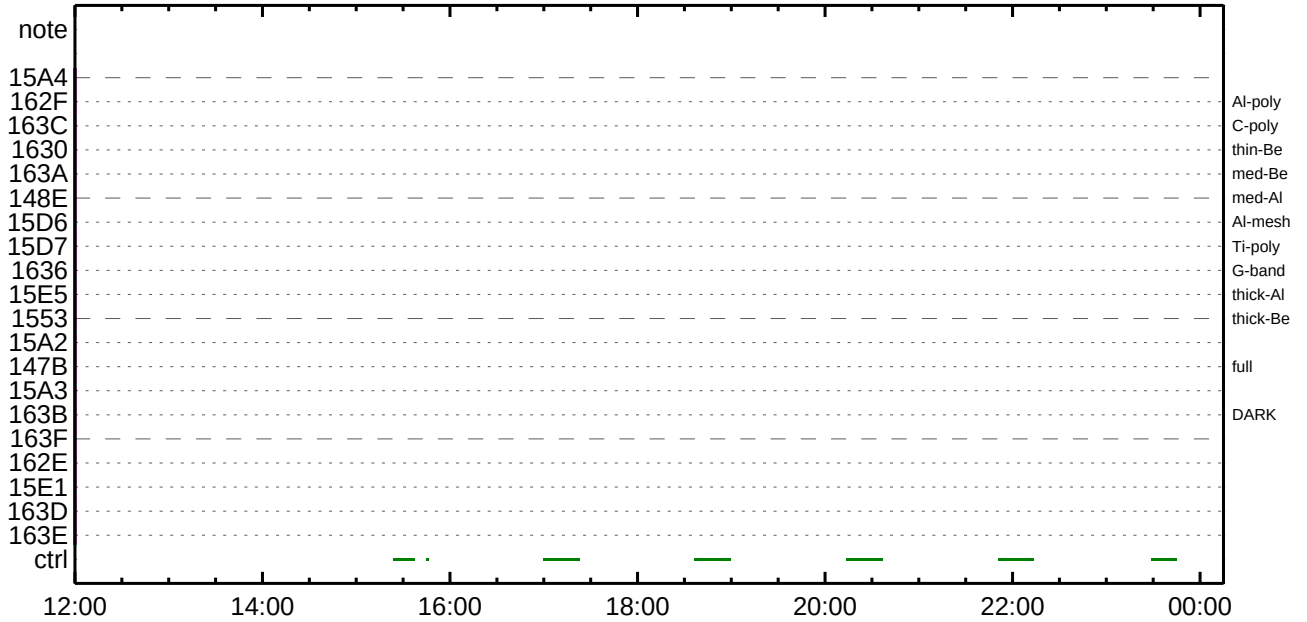
CMDI #0356 2009/01/24



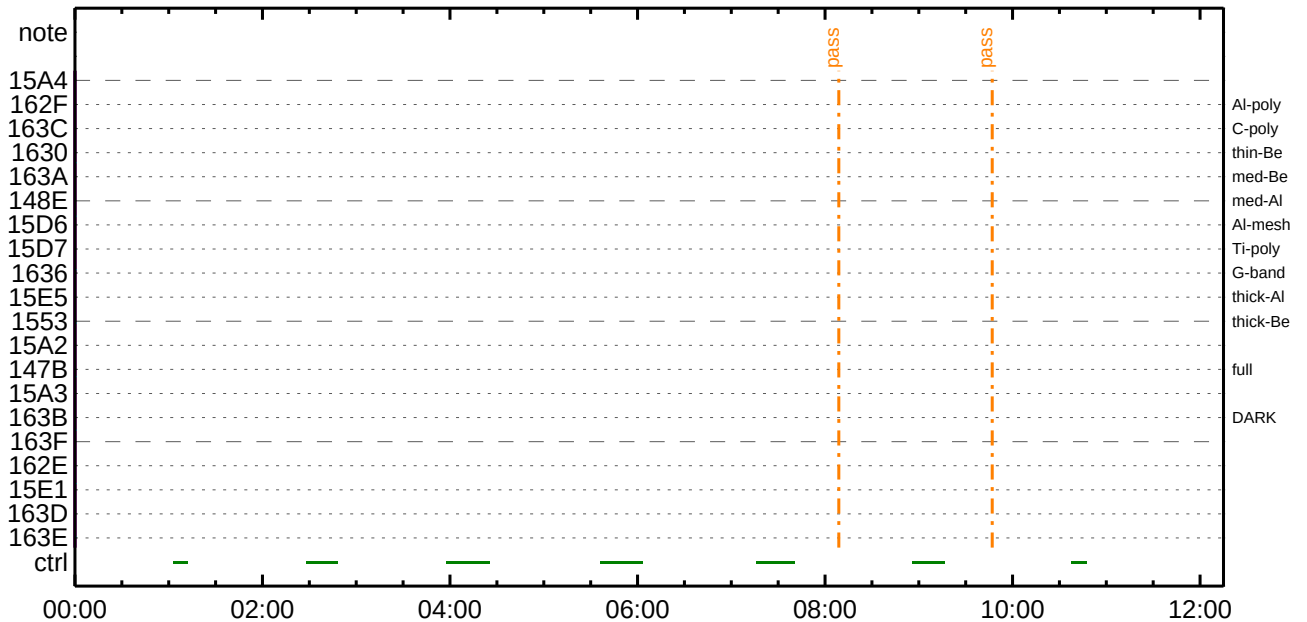
CMDI #0356 2009/01/25



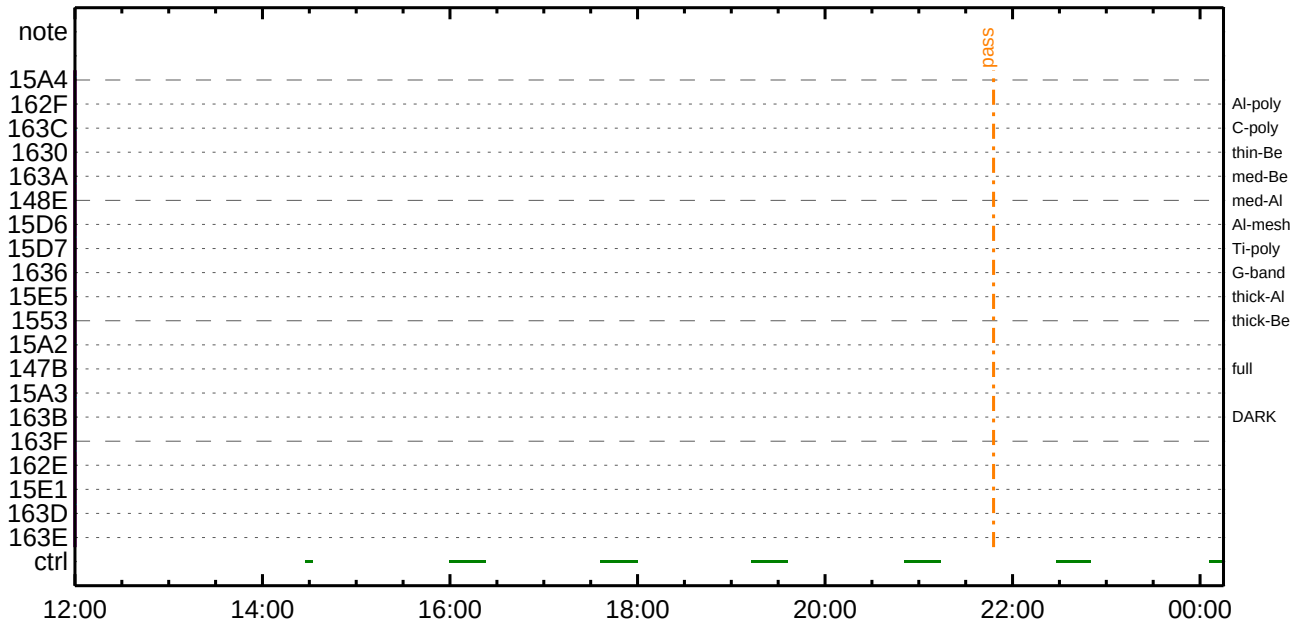
CMDI #0356 2009/01/25



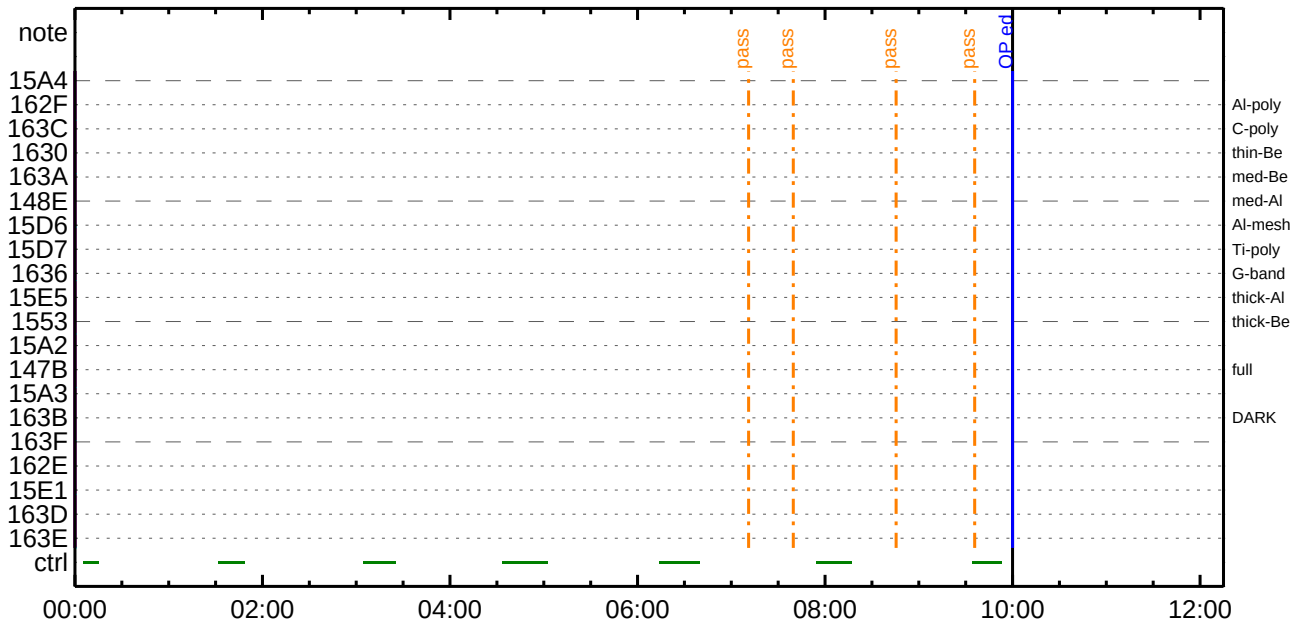
CMDI #0356 2009/01/26



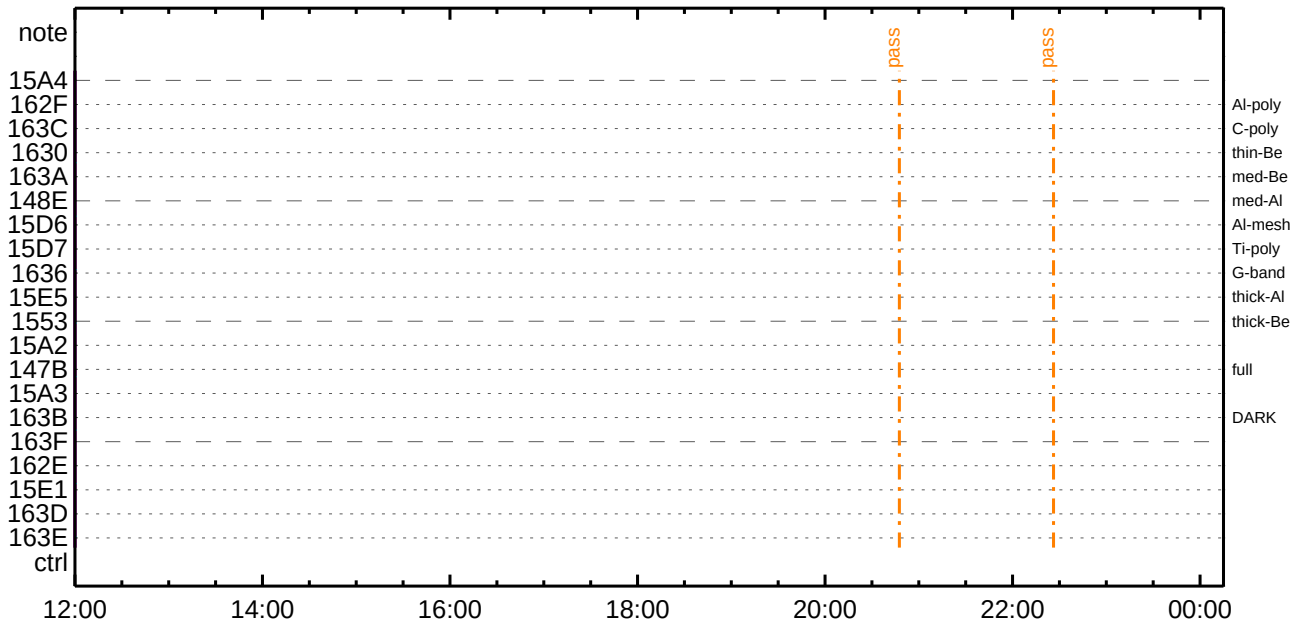
CMDI #0356 2009/01/26



CMDI #0356 2009/01/27



CMDI #0356 2009/01/27



[illegible]

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0194 C.
0195 +. TI 2009-01-22 10:09:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.                                ☐☐[HK1_TI_CMD_NUM]                EQ      1COUNTUP
0198 C.
0199 C. °Ê²¼☐İÄê¼İİÑ☐İ¥Á¥S¥Ä¥-¹àİÜ
0200 C.                                ☐☐[HK1_TI_CMD_ENA/DIS]            EQ      ENA
0201 C.                                ☐☐[HK1_TI_CMD_NUM]                EQ      4
0202 C.                                ☐☐[HK1_NEXT_EXEC_PIM]            EQ      DHU
0203 C.                                ☐☐[HK1_NEXT_EXEC_DC]            EQ      0xB3
0204 C.
0205 C. *****
0206 C. TIİİİ°è¥Á¥0¥×
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.                                ☐☐[HK1_DMP_TOP_ADRS_1]            EQ      07
0213 C.                                ☐☐[HK1_DMP_TOP_ADRS_0]            EQ      2B
0214 C.                                ☐☐[HK1_DMP_BLOCK_NUM]            EQ      3
0215 C.                                ☐☐[HK1_DMP_REPEAT_NUM]            EQ      0
0216 C.                                ☐☐[HK1_DMA_DMP_PIM]            EQ      DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC (07 0b f8)
0219 C.                                ☐☐[HK1_PKT_FORM_NO]            EQ      7
0220 C.                                ☐☐[HK1_PKT_GEN_TIME]            EQ      0.25 s
0221 C.                                ☐☐[HK1_S_TLM_BIT_RATE]            EQ      32k
0222 C.                                ☐☐[HK1_X_TLM_BIT_RATE]            EQ      4M
0223 C.                                ☐☐[HK1_DMP_CHK_FLG]            EQ      EXEC
0224 C.
0225 C. ¥Á¥0¥×½ªİ»☐ò³İÇS
0226 C.                                ☐☐[HK1_DMP_CHK_FLG]            EQ      NON
0227 C.
0228 C. RAM ID=TI_TBL☐İ¼Ê¹Ç•è²İOK☐ò³İÇS
0229 C.
0230 C. DHU¥â;¼¥Ê;İ¼ý½, ¥İ;¼¥Ê;İ☐òİâ☐¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC (02 0a f8)
0233 C.                                ☐☐[HK1_PKT_FORM_NO]            EQ      2
0234 C.                                ☐☐[HK1_PKT_GEN_TIME]            EQ      0.5S
0235 C.                                ☐☐[HK1_S_TLM_BIT_RATE]            EQ      32K
0236 C.                                ☐☐[HK1_X_TLM_BIT_RATE]            EQ      4M
0237 C.
0238 C. *****
0239 C. SOT TI command set
0240 C. *****
0241 C. Execute, after the success of OP upload.
0242 +. TI 2009-01-22 10:09:16.0
0243 DC 07-F0 MDP_SOT_MODE_STBY
0244 BC (41)
0245 C. -----
0246 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0247 C. -----
0248 C. ***** SOT END *****
0249 C. Stop EIS observation and temporarily disable EIS mode changes
0250 C.
0251 C.
0252 C. ***** Start EIS operation (TI set) *****
0253 C. Execute, after the success of OP upload.
0254 C. Set EIS TI-commands
0255 +. TI 2009-01-22 10:09:30.0
0256 DC 07-FC EIS_MODE_MANU
0257 BC (21 02)
0258 +. TI 2009-01-22 10:09:40.0
0259 DC 07-FC EIS_MODE_CHG_DIS
0260 BC (22)
0261 C. [ ] [HK1_TI_CMD_NUM] EQ 2 COUNTUP
0262 C. ***** End EIS operation (TI set) *****
0263 C.
0264 C.
0265 C.
0266 C. ***** XRT START *****
0267 C. Execute, after the success of OP upload.
0268 +. TI 2009-01-22 10:09:00.0
0269 DC 07-F0 MDP_XRT_MODE_STBY
0270 BC (c3)
0271 C. [ ] [HK1_TI_CMD_NUM] EQ 1COUNTUP
0272 C.
0273 C. ***** XRT END *****
0274 C.
0275 C. ***** MDP ´ÜÄİâİ»ö¼ý☐ÈÄð☐¹æðCDBC•×²è *****
0276 C. (¼Ä°İ¥0¥Á¥È¥ð¥È¥Ä¥Ç¥è☐È²¼☐☐¼Ä»Ü☐¹æ)
0277 S. DC-BC dcbc-402:DCBC
0278 (MDP_known_event)
0279 C.
0280 C.
0281 C. ***** ¥ð¥¹•İ Daily±¼İÑ☐È´ð☐¹æðCDBC•×²è *****
0282 S. DC-BC dcbc-153:DCBC
0283 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 C. İäLOS¥Á¥S¥Ä¥-¼Ä»Ü;ä
0287 C.
0288 C. ***** LOS *****
0289 C.

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(a) Spacecraft Operation Procedure (real-commands)

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main-368 2009-01-22 20:06:57 166 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. iãAOS¥Á¥S¥Ã¥¼Ä»Üjã
0005 C.
0006 C. ¥À¥Bj¼¥³¥P¥Ó¥ÉÄ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äi;Ê¿¿A¤•µ°Æ»I×AÇ¤I¥Ç¥A¥×¥i;¼¥ÉjÊÊ½µ•iÍÊjÊ½¼°Ç¿¤•¤¿¼¹¿¤IjÇÄ®, Ü¤¹¤Ê¤¤¤ÇÄ÷¿®¤•¤Ê¤¤¤¤¤Èj£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ÷¿®µjON
0016 C. *****
0017 C. ¨ °ÆÄ, Í×ÊÝ¤¤¤LOS¤¤¤Ç¤I»p´Ö¤ð¹ÍÍ, ¤•jÇÉÔÍ×¤¤ÊXÄÓON¤I¹Ô¤Ê¤I¤¤Ê¤¤¤¤¤Èj£
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 +. DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 +. DC 03-95 TCIA_XMOD_QPSK
0024 C. ¤¤[HK1_XPA_ON/OFF] EQ ON
0025 C. ¤¤[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. ¤¤[HK1_XMOD_ON/OFF] EQ ON
0027 C. ¤¤[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. X¥Ð¥Ó¥É¥i¥Ã¥¼ÖÄÖ¤¬°ÄÄ¤¤•¤¿¤¤; ¤°Ê²¼¤I°ÆÄ, ¼Ê½¿¤¤½Ä¹Ô¤¹¤¤¤¤Èj£
0030 C.
0031 . C. *****
0032 C. DR PT1 ÄI¼I°ÆÄ
0033 C. *****
0034 C. ¨ RESTARTjÊPT1jÊ¤•¤¿¤¤¤¼¹¿¤IjÇ¤I; ¤°Ê²¼¤I¼Ä¹Ô¤¤¤¤¤; ¤DCBC-150¤¤¿¿¿¤¤¤¤¤Èj£
0035 C.
0036 . C. iãPT1°ÆÄ, ³«»Ijã
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 +. DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 +. DC 06-B3 DR_REP_START
0041 +. DC 01-32 DHU_X_VC4_ON
0042 C. ¤¤[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô, i¼Ü)
0043 C. ¤¤[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, i¼Ü)
0044 C. ¤¤[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, i¼Ü)
0045 C.
0046 . C. iã¥Ç¥Ó¥Æ¥ÊÄÜÄ¤; ÊÄ•Ä²ÓÊ¤; Ê, ¤¤I°ÆÄ, °Æ³«jã
0047 +. DC 06-B3 DR_REP_START
0048 +. DC 01-32 DHU_X_VC4_ON
0049 C. ¤¤[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô, i¼Ü)
0050 C. ¤¤[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, i¼Ü)
0051 C. ¤¤[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, i¼Ü)
0052 C.
0053 C.
0054 . C. PT1°ÆÄ, ¤¬¼«Æ°Ä¤»B¤•¤¿, ¤jÇ°Ê²¼¤¤½Ä¹Ô¤¹¤¤¤¤Èj£
0055 C. ¥Ç¥Ó¥Æ¥ÊÄÜÄ¤¤¤ÄÄ•Ä²ÓÊ¤¤¬¤¤¤¤¼¹¿¤I °I»¤¹¤Ê¤¤¤ÇÄÔ¤Äj£
0056 C.
0057 . C. *****
0058 C. DR PT2 ÄI¼I°ÆÄ
0059 C. *****
0060 C. ¨ RESTARTjÊPT2jÊ¤•¤¿¤¤¤¼¹¿¤IjÇ¤I; ¤°Ê²¼¤I¼Ä¹Ô¤¤¤¤¤; ¤DCBC-151¤¤¿¿¿¤¤¤¤¤Èj£
0061 C.
0062 . C. iãPT2°ÆÄ, ³«»Ijã
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 +. DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 +. DC 06-B3 DR_REP_START
0067 +. DC 01-32 DHU_X_VC4_ON
0068 C. ¤¤[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô, i¼Ü)
0069 C. ¤¤[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, i¼Ü)
0070 C. ¤¤[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, i¼Ü)
0071 C.
0072 . C. iã¥Ç¥Ó¥Æ¥ÊÄÜÄ¤; ÊÄ•Ä²ÓÊ¤; Ê, ¤¤I°ÆÄ, °Æ³«jã
0073 +. DC 06-B3 DR_REP_START
0074 +. DC 01-32 DHU_X_VC4_ON
0075 C. ¤¤[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô, i¼Ü)
0076 C. ¤¤[HK1_REP_STA/STP] EQ START (¼Ä¹Ô, i¼Ü)
0077 C. ¤¤[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô, i¼Ü)
0078 C.
0079 . C. *****
0080 C. DR°ÆÄ, Ä¤»BjÇXÁ÷¿®µjOFF
0081 C. *****
0082 C.
0083 . C. iãDR°ÆÄ, Ä¤»Bjã
0084 +. DC 06-B4 DR_REP_STOP
0085 +. DC 01-29 DHU_S/X_VC4_OFF
0086 C. ¤¤[HK1_REP_STA/STP] EQ STOP
0087 C. ¤¤[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. ¤¤[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. iãXÁ÷¿®µjOFFjã
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 +. DC 03-B5 TCIA_XPA_OFF
0094 C. ¤¤[HK1_XMOD_ON/OFF] EQ OFF
0095 C. ¤¤[HK1_XPA_ON/OFF] EQ OFF
```

```

00096 C.
00097 C.
00098 C. ***** AOCS Commands (Tracking Curve Upload) *****
00099 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 AOCS DUMP to end
0117 C.
0118 C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E 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 13s
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 2009-01-22 10:09:50.0
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 `0ÃÎ0Î»0%Y0ÊÃ010èDCBC•x²è *****
0153 C. (%ã°î¥0¥Ã¥Ê¥P¥Ê¥Ã¥C¥è0Ê½00¥A»Û010è)
0154 S. DC-BC dcbc-402:DCBC
0155 (MDP_known_event)
0156 C.
0157 C.
0158 C. ***** ¥Ð¥1•İ Daily±¿İÑ0Ê`0010èDCBC•x²è *****
0159 S. DC-BC dcbc-153:DCBC
0160 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161 C.
0162 C.
0163 C. iãLOS¥Á¥S¥Ã¥¬¼A»Ûiã
0164 C.
0165 C. ***** LOS *****
0166 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-369 2009-01-22 20:06:57 136 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. iãAOS¥Á¥S¥Ã¥¼Å»Üjã
0005 C.
0006 C. ¥À¥Bj¼¥³¥D¥Ó¥ÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. ĀiĒĒ¿¿Aα•μ°£»İ×AÇ¿İ¿C¥A¥×¥i¼¥ĒĒĒĒμ•īĒĒĒĒ°Ç¿¿•¿¿i¹¿¿İjÇÀ®, ũα¹αēαβαÇÁ÷¿®α•αĒααα³αĒj£
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-269: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-286: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. *****
0054 C. SOT TI command set
0055 C. *****
0056 C. Execute, after the success of TBL upload.
0057 +. TI 2009-01-22 10:09:18.0
0058 DC 07-F0 MDP_SOT_MODE_OBSV
0059 BC (40)
0060 . C. -----
0061 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0062 C. -----
0063 C.
0064 C.
0065 C. ***** XRT START *****
0066 C.
0067 +. DC 07-F0 MDP_XRT_CTRL_MANU
0068 BC (c1)
0069 +. DC 07-F0 MDP_XRT_MODE_STBY
0070 BC (c3)
0071 . C. ----- Success Verify ? OK / NG____
0072 C.
0073 C. XRT Obs. Table Upload
0074 . S. RAM ram-291:MDP_OBS_X
0075 ( )
0076 C.
0077 +. DC 07-F0 MDP_DUMP_XRTTBL
0078 BC (84 07 00 00 00 3a d4)
0079 . C. ----- Comparison Check ? OK / ERR ____
0080 C.
0081 C.
0082 +. DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 01 b1 b1 04 04)
0084 +. DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 02 b1 b1 08 08)
0086 +. DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 03 b1 b1 08 08)
0088 +. DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 04 b1 b1 06 06)
0090 +. DC 07-F0 MDP_XRT_ROI_SET
0091 BC (cd 06 80 82 06 04)
0092 +. DC 07-F0 MDP_XRT_ROI_SET
0093 BC (cd 07 80 80 20 20)
0094 +. DC 07-F0 MDP_XRT_ROI_SET
0095 BC (cd 08 80 76 08 08)
```

```
0096 + DC 07-F0 MDP_XRT_ROI_SET
0097 BC (cd 09 80 60 20 18)
0098 + DC 07-F0 MDP_XRT_ROI_SET
0099 BC (cd 0a 80 80 06 06)
0100 + DC 07-F0 MDP_XRT_ROI_SET
0101 BC (cd 0f 80 80 04 04)
0102 + DC 07-F0 MDP_XRT_ROI_SET
0103 BC (cd 10 80 80 10 10)
0104 + DC 07-F0 MDP_XRT_AEC_RESET
0105 BC (d0)
0106 + DC 07-F0 MDP_XRT_QT_PROG_SET
0107 BC (c4 02)
0108 . C. ----- Success Verify ? OK / NG ____
0109 C.
0110 C.
0111 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0112 C.
0113 + DC 07-F0 MDP_XRT_MODE_OBSV
0114 BC (c2)
0115 + TI 2009-01-22 10:09:02.0
0116 DC 07-F0 MDP_XRT_MODE_OBSV
0117 BC (c2)
0118 . C. ----- Success Verify ? OK / NG ____
0119 C.
0120 C. ***** XRT END *****
0121 C.
0122 . C. ***** MDP `ûÃîï»ô¼ýðĒâð¹æðCBC•x²è *****
0123 C. (%ã°î¥0¥Å¥Ē¥ð¥Ē¥â¥Ĉ¥êðĒ¼¼¼¼Å»û¹æ)
0124 . S. DC-BC dcbc-402:DCBC
0125 (MDP_known_event)
0126 C.
0127 C.
0128 . C. ***** ¥ð¥¹•Ĭ Daily±ĴÎñðĒ'ð¹æðCBC•x²è *****
0129 . S. DC-BC dcbc-153:DCBC
0130 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0131 C.
0132 C.
0133 . C. ¡ãLOS¥Å¥S¥Ā¥¼Å»Û¡ä
0134 C.
0135 . C. ***** LOS *****
0136 C.
```

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*** OP Sequence for XRT ***

2009/01/22	10:10:02.5	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	10:10:04.5	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/22	10:10:24.5	XRT_QT_PROG_SET_424_OG [0x1a8]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 12
2009/01/22	10:12:02.5	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/22	10:12:04.5	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/22	10:12:06.5	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/22	10:12:08.5	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	10:19:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	10:19:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/22	10:20:00.0	AOCS_ORe-point_Start_1_OG [0x097]			
		AOCU_NM	5	02-76	04 00 00 00 00
2009/01/22	10:20:16.0	XRT_QT_PROG_SET_424_OG [0x1a8]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 12
2009/01/22	10:21:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/22	10:21:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/22	10:21:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/22	10:22:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	15:10:30.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	15:22:30.0	XRT_Custom_430_OG [0x1ae]			
2009/01/22	15:23:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	16:45:30.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	17:09:30.0	XRT_Custom_430_OG [0x1ae]			
2009/01/22	17:10:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	17:59:24.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	17:59:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]			
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/01/22	17:59:30.0	AOCS_ORe-point_Start_2_OG [0x098]			
		AOCU_NM	5	02-76	00 00 00 00 00
2009/01/22	17:59:46.0	XRT_QT_PROG_SET_426_OG [0x1aa]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e
2009/01/22	17:59:48.0	XRT_FLD_DIS_419_OG [0x1a3]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/22	17:59:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/22	17:59:52.0	XRT_ARS_DIS_427_OG [0x1ab]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/22	18:01:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	18:09:24.0	XRT_CTRL_MANU_439_OG [0x1b7]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	18:09:30.0	AOCS_ORe-point_Start_1_OG [0x097]			
		AOCU_NM	5	02-76	04 00 00 00 00
2009/01/22	18:11:02.0	XRT_FOCUS_POSITION_409_OG [0x199]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/22	18:11:22.0	XRT_QT_PROG_SET_411_OG [0x19b]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0a
2009/01/22	18:11:24.0	XRT_ARS_DIS_417_OG [0x1a1]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/22	18:11:26.0	XRT_FLD_DIS_419_OG [0x1a3]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/22	18:11:28.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/22	18:11:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	18:45:24.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	18:45:26.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/22	18:45:46.0	XRT_QT_PROG_SET_414_OG [0x19e]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 02
2009/01/22	18:47:24.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/22	18:47:26.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/22	18:47:28.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/22	18:47:30.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	20:00:00.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	20:23:30.0	XRT_Custom_430_OG [0x1ae]			
2009/01/22	20:24:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0

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2009/01/22	21:37:30.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	22:00:30.0	XRT_Custom_430_OG [0x1ae]			
2009/01/22	22:01:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/22	23:15:00.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/22	23:35:00.0	XRT_Custom_430_OG [0x1ae]			
2009/01/22	23:36:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	00:52:00.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	00:59:00.0	XRT_Custom_430_OG [0x1ae]			
2009/01/23	01:00:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	02:15:00.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	02:34:30.0	XRT_Custom_430_OG [0x1ae]			
2009/01/23	02:35:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	03:48:30.0	XRT_CTRL_MANU_435_OG [0x1b3]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	04:12:00.0	XRT_Custom_430_OG [0x1ae]			
2009/01/23	04:13:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	04:54:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	04:54:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/23	04:55:16.0	XRT_QT_PROG_SET_402_OG [0x192]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 05
2009/01/23	04:56:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/23	04:56:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/23	04:56:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	04:57:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	05:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	05:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]			
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/01/23	06:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]			
		AOCU_NM	5	02-76	00 00 00 00 00
2009/01/23	06:00:16.0	XRT_QT_PROG_SET_405_OG [0x195]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0d
2009/01/23	06:00:18.0	XRT_FLD_DIS_419_OG [0x1a3]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/23	06:00:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	06:00:22.0	XRT_ARS_DIS_427_OG [0x1ab]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/23	06:02:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	06:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	06:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/23	06:10:00.0	AOCS_ORe-point_Start_3_OG [0x099]			
		AOCU_NM	5	02-76	00 ad 48 00 00
2009/01/23	06:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0b
2009/01/23	06:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/23	06:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/23	06:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	06:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	06:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	06:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/23	06:40:00.0	AOCS_ORe-point_Start_4_OG [0x09a]			
		AOCU_NM	5	02-76	00 b6 1d 00 00
2009/01/23	06:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0b
2009/01/23	06:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/23	06:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/23	06:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	06:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	07:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	07:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/23	07:10:00.0	AOCS_ORe-point_Start_5_OG [0x09b]			
		AOCU_NM	5	02-76	00 be fa 00 00

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2009/01/23	07:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b	
2009/01/23	07:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0 d5	
2009/01/23	07:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0 d9	
2009/01/23	07:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9	
2009/01/23	07:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0 c0	
2009/01/23	07:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0 c1	
2009/01/23	07:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00	
2009/01/23	07:40:00.0	AOCS_ORe-point_Start_6_OG [0x09c]			
		AOCU_NM	5	02-76 00 c7 cf 00 00	
2009/01/23	07:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b	
2009/01/23	07:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0 d5	
2009/01/23	07:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0 d9	
2009/01/23	07:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9	
2009/01/23	07:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0 c0	
2009/01/23	08:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0 c1	
2009/01/23	08:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00	
2009/01/23	08:10:00.0	AOCS_ORe-point_Start_7_OG [0x09d]			
		AOCU_NM	5	02-76 00 d0 ad 00 00	
2009/01/23	08:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b	
2009/01/23	08:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0 d5	
2009/01/23	08:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0 d9	
2009/01/23	08:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9	
2009/01/23	08:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0 c0	
2009/01/23	08:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0 c1	
2009/01/23	08:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00	
2009/01/23	08:40:00.0	AOCS_ORe-point_Start_8_OG [0x09e]			
		AOCU_NM	5	02-76 00 d9 82 00 00	
2009/01/23	08:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b	
2009/01/23	08:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0 d5	
2009/01/23	08:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0 d9	
2009/01/23	08:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9	
2009/01/23	08:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0 c0	
2009/01/23	09:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0 c1	
2009/01/23	09:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00	
2009/01/23	09:10:00.0	AOCS_ORe-point_Start_9_OG [0x09f]			
		AOCU_NM	5	02-76 00 e2 57 00 00	
2009/01/23	09:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b	
2009/01/23	09:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0 d5	
2009/01/23	09:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0 d9	
2009/01/23	09:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9	
2009/01/23	09:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0 c0	
2009/01/23	09:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0 c1	
2009/01/23	09:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00	
2009/01/23	09:40:00.0	AOCS_ORe-point_Start_10_OG [0x0a0]			
		AOCU_NM	5	02-76 00 eb 34 00 00	
2009/01/23	09:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]			
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b	
2009/01/23	09:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]			
		MDP_XRT_ARS_DIS	1	07-F0 d5	
2009/01/23	09:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]			
		MDP_XRT_FLD_DIS	1	07-F0 d9	
2009/01/23	09:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9	
2009/01/23	09:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]			
		MDP_XRT_CTRL_AUTO	1	07-F0 c0	
2009/01/23	10:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]			
		MDP_XRT_CTRL_MANU	1	07-F0 c1	
2009/01/23	10:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]			

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2009/01/23	10:10:00.0	AOCS_ORe-point_Start_11_OG [0x0a1]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
		AOCU_NM		5	02-76	00	f4	09	00 00
2009/01/23	10:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0b		
2009/01/23	10:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/01/23	10:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/01/23	10:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/01/23	10:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/01/23	10:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/01/23	10:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
2009/01/23	10:40:00.0	AOCS_ORe-point_Start_12_OG [0x0a2]	AOCU_NM	5	02-76	00	fc	e6	00 00
2009/01/23	10:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0b		
2009/01/23	10:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/01/23	10:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/01/23	10:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/01/23	10:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/01/23	11:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/01/23	11:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
2009/01/23	11:10:00.0	AOCS_ORe-point_Start_13_OG [0x0a3]	AOCU_NM	5	02-76	00	03	1a	00 00
2009/01/23	11:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0b		
2009/01/23	11:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/01/23	11:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/01/23	11:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/01/23	11:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/01/23	11:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/01/23	11:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
2009/01/23	11:40:00.0	AOCS_ORe-point_Start_14_OG [0x0a4]	AOCU_NM	5	02-76	00	0b	f7	00 00
2009/01/23	11:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0b		
2009/01/23	11:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/01/23	11:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/01/23	11:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/01/23	11:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/01/23	12:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/01/23	12:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
2009/01/23	12:10:00.0	AOCS_ORe-point_Start_15_OG [0x0a5]	AOCU_NM	5	02-76	00	14	cc	00 00
2009/01/23	12:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0b		
2009/01/23	12:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/01/23	12:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/01/23	12:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/01/23	12:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/01/23	12:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/01/23	12:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
2009/01/23	12:40:00.0	AOCS_ORe-point_Start_16_OG [0x0a6]	AOCU_NM	5	02-76	00	1d	a9	00 00
2009/01/23	12:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0b		
2009/01/23	12:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/01/23	12:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/01/23	12:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/01/23	12:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			

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2009/01/23	13:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2009/01/23	13:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]		
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00
2009/01/23	13:10:00.0	AOCS_ORe-point_Start_17_OG [0x0a7]		
		AOCU_NM	5	02-76 00 26 7e 00 00
2009/01/23	13:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b
2009/01/23	13:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2009/01/23	13:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]		
		MDP_XRT_FLD_DIS	1	07-F0 d9
2009/01/23	13:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]		
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9
2009/01/23	13:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2009/01/23	13:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2009/01/23	13:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]		
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00
2009/01/23	13:40:00.0	AOCS_ORe-point_Start_18_OG [0x0a8]		
		AOCU_NM	5	02-76 00 2f 53 00 00
2009/01/23	13:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b
2009/01/23	13:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2009/01/23	13:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]		
		MDP_XRT_FLD_DIS	1	07-F0 d9
2009/01/23	13:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]		
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9
2009/01/23	13:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2009/01/23	14:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2009/01/23	14:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]		
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00
2009/01/23	14:10:00.0	AOCS_ORe-point_Start_19_OG [0x0a9]		
		AOCU_NM	5	02-76 00 38 31 00 00
2009/01/23	14:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b
2009/01/23	14:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2009/01/23	14:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]		
		MDP_XRT_FLD_DIS	1	07-F0 d9
2009/01/23	14:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]		
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9
2009/01/23	14:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2009/01/23	14:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2009/01/23	14:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]		
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00
2009/01/23	14:40:00.0	AOCS_ORe-point_Start_20_OG [0x0aa]		
		AOCU_NM	5	02-76 00 41 06 00 00
2009/01/23	14:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b
2009/01/23	14:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2009/01/23	14:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]		
		MDP_XRT_FLD_DIS	1	07-F0 d9
2009/01/23	14:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]		
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9
2009/01/23	14:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2009/01/23	15:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2009/01/23	15:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]		
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00
2009/01/23	15:10:00.0	AOCS_ORe-point_Start_21_OG [0x0ab]		
		AOCU_NM	5	02-76 00 49 e3 00 00
2009/01/23	15:10:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b
2009/01/23	15:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2009/01/23	15:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]		
		MDP_XRT_FLD_DIS	1	07-F0 d9
2009/01/23	15:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]		
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9
2009/01/23	15:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2009/01/23	15:39:54.0	XRT_CTRL_MANU_428_OG [0x1ac]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2009/01/23	15:39:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]		
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00
2009/01/23	15:40:00.0	AOCS_ORe-point_Start_22_OG [0x0ac]		
		AOCU_NM	5	02-76 00 52 b8 00 00
2009/01/23	15:40:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 0b
2009/01/23	15:41:54.0	XRT_ARS_DIS_422_OG [0x1a6]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2009/01/23	15:41:56.0	XRT_FLD_DIS_445_OG [0x1bd]		
		MDP_XRT_FLD_DIS	1	07-F0 d9
2009/01/23	15:41:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]		

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2009/01/23	15:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	16:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	16:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	16:10:00.0	AOCS_ORe-point_Start_1_OG [0x097]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/23	16:10:16.0	XRT_QT_PROG_SET_414_OG [0x19e]	AOCU_NM	5	02-76	04 00 00 00 00
2009/01/23	16:11:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 02
2009/01/23	16:11:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/23	16:11:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/23	16:12:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	17:22:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	17:46:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	17:47:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/23	18:01:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	18:01:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	18:02:00.0	AOCS_ORe-point_Start_2_OG [0x098]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/01/23	18:02:16.0	XRT_QT_PROG_SET_426_OG [0x1aa]	AOCU_NM	5	02-76	00 00 00 00 00
2009/01/23	18:02:18.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e
2009/01/23	18:02:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/23	18:02:22.0	XRT_ARS_DIS_427_OG [0x1ab]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	18:04:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/23	18:11:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	18:11:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	18:12:00.0	AOCS_ORe-point_Start_1_OG [0x097]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/01/23	18:12:16.0	XRT_QT_PROG_SET_414_OG [0x19e]	AOCU_NM	5	02-76	04 00 00 00 00
2009/01/23	18:13:54.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 02
2009/01/23	18:13:56.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/01/23	18:13:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/01/23	18:14:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/01/23	18:59:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	19:23:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	19:24:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/23	20:37:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	21:00:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	21:01:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/23	22:14:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/23	22:36:30.5	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/23	22:37:30.5	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/23	23:52:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/24	00:04:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/24	00:05:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/24	01:19:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/24	01:35:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/24	01:36:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/24	02:51:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/24	03:11:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/24	03:12:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/24	04:19:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/01/24	04:49:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/01/24	04:50:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]				
2009/01/24	05:32:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
			MDP_XRT_CTRL_MANU	1	07-F0	c1

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2009/01/24	05:32:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	
		XRT_FOCUS_POSITION	4 07-F8 22 ff aa 00
2009/01/24	05:33:00.0	AOCS_ORe-point_Start_2_OG [0x098]	
		AOCU_NM	5 02-76 00 00 00 00 00
2009/01/24	05:33:16.0	XRT_QT_PROG_SET_405_OG [0x195]	
		MDP_XRT_QT_PROG_SET	2 07-F0 c4 0d
2009/01/24	05:33:18.0	XRT_FLD_DIS_419_OG [0x1a3]	
		MDP_XRT_FLD_DIS	1 07-F0 d9
2009/01/24	05:33:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	
		MDP_XRT_FLRCTRL_DIS	1 07-F0 c9
2009/01/24	05:33:22.0	XRT_ARS_DIS_427_OG [0x1ab]	
		MDP_XRT_ARS_DIS	1 07-F0 d5
2009/01/24	05:35:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	
		MDP_XRT_CTRL_AUTO	1 07-F0 c0
2009/01/24	05:42:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	
		MDP_XRT_CTRL_MANU	1 07-F0 c1
2009/01/24	05:42:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	
		XRT_FOCUS_POSITION	4 07-F8 22 fe 97 00
2009/01/24	05:43:00.0	AOCS_ORe-point_Start_1_OG [0x097]	
		AOCU_NM	5 02-76 04 00 00 00 00
2009/01/24	05:43:16.0	XRT_QT_PROG_SET_414_OG [0x19e]	
		MDP_XRT_QT_PROG_SET	2 07-F0 c4 02
2009/01/24	05:44:54.0	XRT_ARS_DIS_422_OG [0x1a6]	
		MDP_XRT_ARS_DIS	1 07-F0 d5
2009/01/24	05:44:56.0	XRT_FLD_DIS_445_OG [0x1bd]	
		MDP_XRT_FLD_DIS	1 07-F0 d9
2009/01/24	05:44:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	
		MDP_XRT_FLRCTRL_DIS	1 07-F0 c9
2009/01/24	05:45:00.0	XRT_CTRL_AUTO_403_OG [0x193]	
		MDP_XRT_CTRL_AUTO	1 07-F0 c0
2009/01/24	06:00:00.5	XRT_CTRL_MANU_435_OG [0x1b3]	
		MDP_XRT_CTRL_MANU	1 07-F0 c1
2009/01/24	06:26:30.0	XRT_Custom_430_OG [0x1ae]	
2009/01/24	06:27:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	
		MDP_XRT_CTRL_AUTO	1 07-F0 c0
2009/01/24	07:40:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	
		MDP_XRT_CTRL_MANU	1 07-F0 c1
2009/01/24	08:03:30.0	XRT_Custom_430_OG [0x1ae]	
2009/01/24	08:04:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	
		MDP_XRT_CTRL_AUTO	1 07-F0 c0
2009/01/24	09:20:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	
		MDP_XRT_CTRL_MANU	1 07-F0 c1
2009/01/24	09:39:30.0	XRT_Custom_430_OG [0x1ae]	
2009/01/24	09:40:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	
		MDP_XRT_CTRL_AUTO	1 07-F0 c0
2009/01/24	11:32:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	
		MDP_XRT_CTRL_MANU	1 07-F0 c1
2009/01/24	11:33:00.0	AOCS_ORe-point_Start_2_OG [0x098]	
		AOCU_NM	5 02-76 00 00 00 00 00