

XRT Timeline to be uploaded on 2018/03/24

Period: 2018/03/24 10:36:00 - 2018/03/29 11:22:00

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Normal mode

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XOB #1B93: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 30s cadence, G-band - 384x384 1ms													
Term	Pointing (x, y)						Comment						
03/24 10:49:00 - 03/24 18:59:54	Fixed (-20.0, -951.0)						# HOP 206 S-Pole OP start + 10min						
PROG= 02 1-time(s)													
└─ Subr= 1 1-time(s) 2.0sec													
└─ Seqn= 16 2-time(s) 2.0sec													
└─ Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec													
└─ Subr= 2 1-time(s) 2.0sec													
└─ Seqn= 90 1-time(s) 30.0sec													
└─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec													
└─ Subr= 3 60-time(s) 2.0sec													
└─ Seqn= 57 1-time(s) 30.0sec													
└─ Open/Al-mesh Open/Al-mesh close Safe Norm 4.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec													
└─ Al-poly/Open Al-poly/Open close Safe Norm 5.66s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec													
<div style="display: flex; justify-content: space-between; font-size: small;"> Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval </div>													

XOB #1BD8: Synoptic 7 Filter w/ Al-mesh(64/512/2897), Al-poly(45/512/4096), Thin-Be(1024/11571/23142) - Thick-Be(65536), Al-poly+Ti-poly(512/8192), Med													
Term	Pointing (x, y)						Comment						
03/24 19:03:00 - 03/24 19:09:54	Fixed (0.0, 0.0)						synoptic, shifted -7.0 min						
03/25 06:03:00 - 03/25 06:09:54	Fixed (0.0, 0.0)						synoptic						
PROG= 18 1-time(s)													
└─ Subr= 1 1-time(s) 2.0sec													
└─ Seqn= 5 1-time(s) 2.0sec													
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec													
└─ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec													
└─ Seqn= 36 1-time(s) 2.0sec													
└─ Open/Al-mesh Open/Al-mesh close Safe Norm 63ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ Open/Al-mesh Open/Al-mesh close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ Open/Al-mesh Open/Al-mesh close Safe Norm 2.83s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ Seqn= 99 1-time(s) 2.0sec													
└─ Al-poly/Open Al-poly/Open close Safe Norm 44ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ 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 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ Seqn= 33 1-time(s) 2.0sec													
└─ thin-Be/Open thin-Be/Open close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ thin-Be/Open thin-Be/Open close Safe Norm 11.3s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ thin-Be/Open thin-Be/Open close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ Seqn= 23 1-time(s) 4.0sec													
└─ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec													
└─ Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec													
└─ Subr= 2 1-time(s) 2.0sec													
└─ Seqn= 46 1-time(s) 2.0sec													
└─ Open/thick-Be Open/thick-Be close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
└─ Seqn= 17 1-time(s) 2.0sec													
└─ med-Al/Open med-Al/Open close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
└─ med-Al/Open med-Al/Open close Safe Norm 64.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
└─ Seqn= 25 1-time(s) 2.0sec													
└─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
└─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 8.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec													
<div style="display: flex; justify-content: space-between; font-size: small;"> Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval </div>													

XOB #1AEC: G-Band Alignment with North Pole Q90 2x2 (G-band and VLS=CLS) - 1msec (Al/poly) - 4096msec - 5min cadence - Partial Sun-wNGT													
Term	Pointing (x, y)						Comment						
03/24 19:25:00 - 03/24 21:09:54	Fixed (0.0, 930.0)						Co-Alignment N-Limb						
PROG= 20 1-time(s)													
└─ Subr= 1 24-time(s) 300.0sec													
└─ Seqn= 98 1-time(s) 2.0sec													
└─ Open/G-band Open/G-band open Safe Norm 1ms Obs 2x2 2048x1536 (1024, 768) Q=90 0 0 2.0sec													
└─ Seqn= 63 1-time(s) 2.0sec													
└─ Open/G-band Open/G-band close Safe Norm 1ms Obs 2x2 2048x1536 (1024, 768) Q=90 0 0 2.0sec													
└─ Seqn= 45 1-time(s) 2.0sec													
└─ Al-poly/Open med-Be/Open close Safe Norm 4.00s Obs 2x2 2048x1536 (1024, 768) Q=95 0 0 2.0sec													
<div style="display: flex; justify-content: space-between; font-size: small;"> Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval </div>													

XOB #1AED: G-Band Alignment with East limb Q90 2x2 (G-band and VLS=CLS) - 1msec - (Al/poly) 1443msec - 8 min cadence-wNGT													
Term	Pointing (x, y)						Comment						
03/24 21:25:00 - 03/24 23:09:54	Fixed (-970.0, 0.0)						Co-Alignment E-Limb						
PROG= 07 1-time(s)													

Subr= 1	15-time(s)	480.0sec											
Seqn= 19	1-time(s)	2.0sec											
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	2x2	1536x2048	(1280, 1024)	Q=90	0	0	2.0sec
Seqn= 43	1-time(s)	2.0sec											
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	2x2	1536x2048	(1280, 1024)	Q=90	0	0	2.0sec
Seqn= 70	1-time(s)	2.0sec											
Al-poly/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	2x2	1536x2048	(1280, 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 #1BE8: HOP349 - 3-filter Synoptics (Al-mesh[512/2048/4096], Al-poly[512/4096/8192], thin-Be[3897/16384/32768] with 512x512 G-band+Leak - 45 min cad

Term	Pointing (x, y)	Comment
03/24 23:30:00 - 03/25 02:08:30	Fixed (0.0, 0.0)	HOP 349 for XRT

PROG= 09	Inf.-time(s)												
Subr= 1	1-time(s)	300.0sec											
Seqn= 12	1-time(s)	2.0sec											
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	500ms	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	4.00s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
Seqn= 82	1-time(s)	2.0sec											
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	4.00s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8.00s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
Seqn= 52	1-time(s)	2.0sec											
thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.83s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	32.0s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
Seqn= 30	1-time(s)	2.0sec											
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512	(1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512	(1024, 1024)	Q=95	0	0	2.0sec
Subr= 2	18-time(s)	150.0sec											
Seqn= 8	1-time(s)	2.0sec											
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048	(1024, 1024)	Q=98	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	4x4	2048x2048	(1024, 1024)	DPCM	2	0	2.0sec
Seqn= 6	1-time(s)	2.0sec											
Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	4x4	2048x2048	(1024, 1024)	Q=98	3	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048	(1024, 1024)	DPCM	2	0	2.0sec
Seqn= 29	1-time(s)	2.0sec											
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	4x4	2048x2048	(1024, 1024)	Q=98	3	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	4x4	2048x2048	(1024, 1024)	Q=98	2	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval		

XOB #1BDA: CME watch - 4x4 - AEC 2 - 2-filter (Be-thin, Al-poly) - G-band (2x2,1ms) - Leak (2x2,1ms) - 60s cad (G-band/Leak first)

Term	Pointing (x, y)	Comment
03/25 02:29:00 - 03/25 05:59:54	Track (0.0, 100.0) @ 03/25 02:10:00	Quiet Sun tracking obs.

PROG= 16	Inf.-time(s)												
Subr= 1	1-time(s)	2.0sec											
Seqn= 4	1-time(s)	2.0sec											
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	2x2	2048x2048	(1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0	0	2.0sec
Subr= 2	80-time(s)	60.0sec											
Seqn= 95	1-time(s)	2.0sec											
thin-Be/Open	med-Be/Open	close	Safe	Norm	4.00s	Obs	4x4	2048x2048	(1024, 1024)	Q=98	2	0	2.0sec
Seqn= 31	1-time(s)	2.0sec											
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	4x4	2048x2048	(1024, 1024)	Q=98	2	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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XOB #1B8E: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512)

Term	Pointing (x, y)	Comment
03/24 10:49:00 - 03/24 18:59:54	Fixed (-20.0, -951.0)	# HOP 206 S-Pole OP start + 10min
03/24 23:30:00 - 03/25 02:08:30	Fixed (0.0, 0.0)	HOP 349 for XRT
03/25 02:29:00 - 03/25 05:59:54	Track (0.0, 100.0) @ 03/25 02:10:00	Quiet Sun tracking obs.

PROG= 13	30-time(s)												
Subr= 1	20-time(s)	2.0sec											
Seqn= 11	1-time(s)	2.0sec											
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512	(1024, 1024)	Q=95	2	0	2.0sec
Seqn=100	1-time(s)	10.0sec											
thin-Be/Open	med-Be/Open	close	Safe	Norm	125ms	Obs	1x1	384x384	(1024, 1024)	Q=95	2	0	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384	(1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Al	Open/thick-Be	close	Safe	Norm	1.00s	Obs	1x1	384x384	(1024, 1024)	Q=95	3	0	2.0sec
Subr= 2	1-time(s)	2.0sec											
Seqn= 10	1-time(s)	2.0sec											
med-Al/Open	med-Al/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384	(1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384	(1024, 1024)	Q=95	3	0	2.0sec
Seqn= 11	1-time(s)	2.0sec											
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512	(1024, 1024)	Q=95	2	0	2.0sec

Seqn= 81	1-time(s)	2.0sec											
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1024, 1024)		Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	512x512 (1024, 1024)		Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	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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Active Region Search

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NOT USED

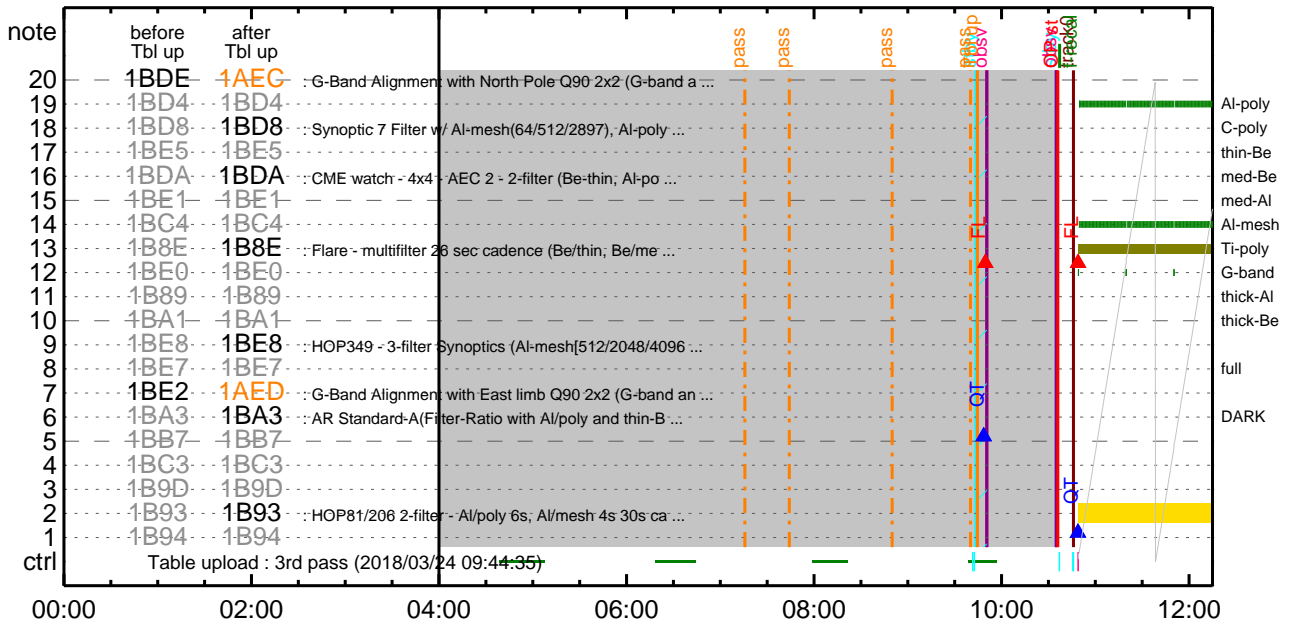
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Flare Detection

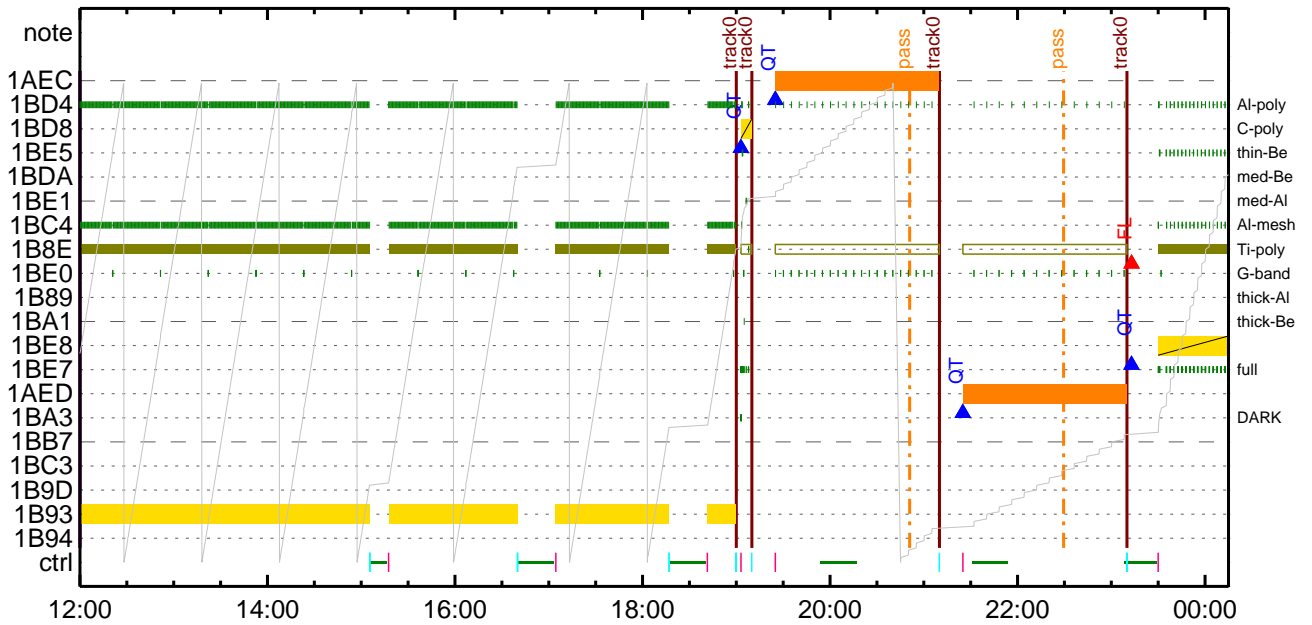
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FLD Patrol												
Term	Pointing (x, y)				Comment							
03/24 23:10:18 - 03/25 06:00:18	Fixed (0.0, 0.0)				HOP 349 for XRT							
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8ms	Obs	8x8		Q=50	30sec		
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)		Comp.	AEC Buffer	Interval

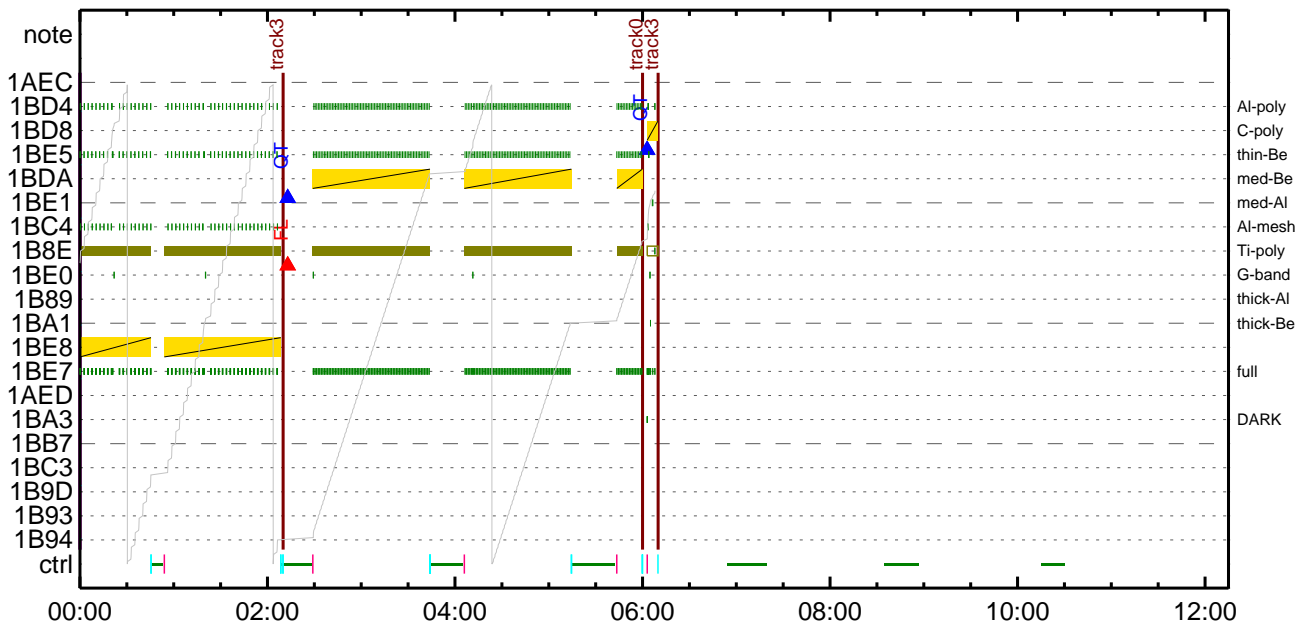
CMDI #0390 2018/03/24



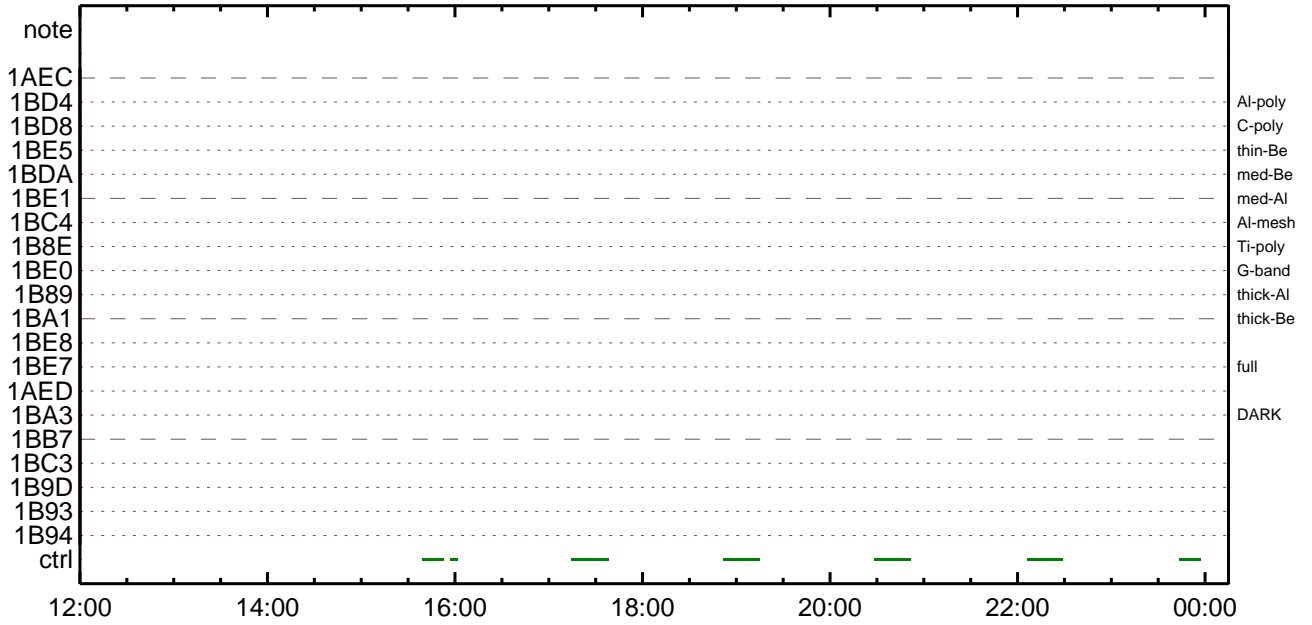
CMDI #0390 2018/03/24



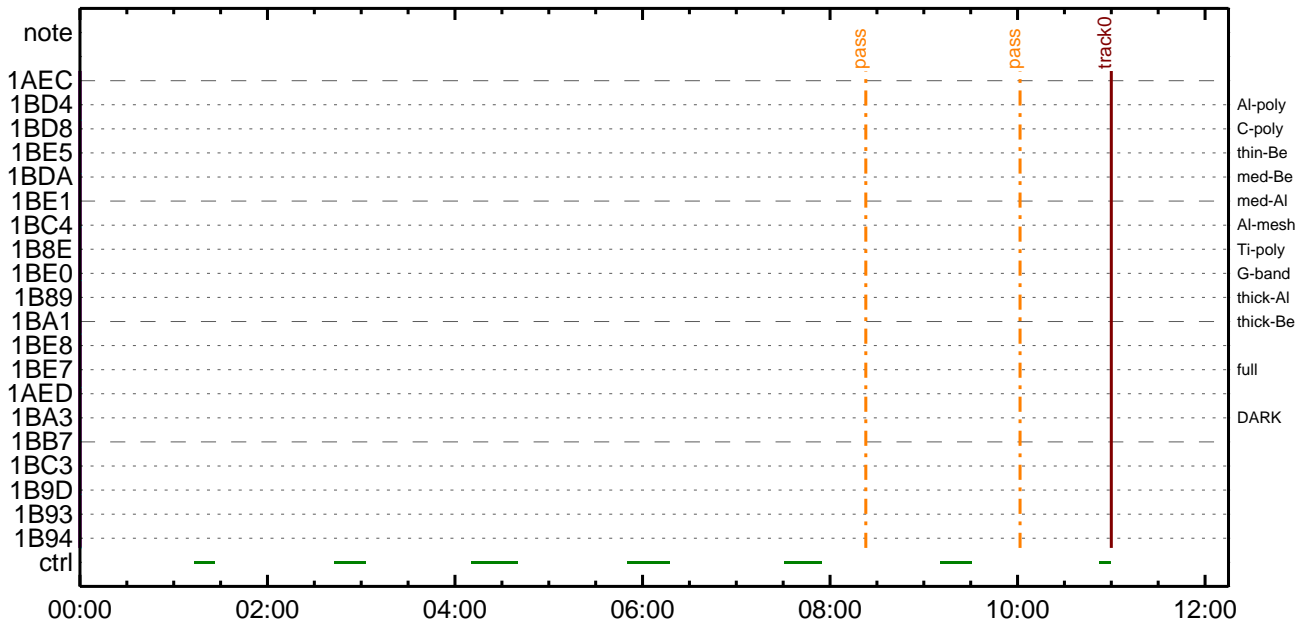
CMDI #0390 2018/03/25



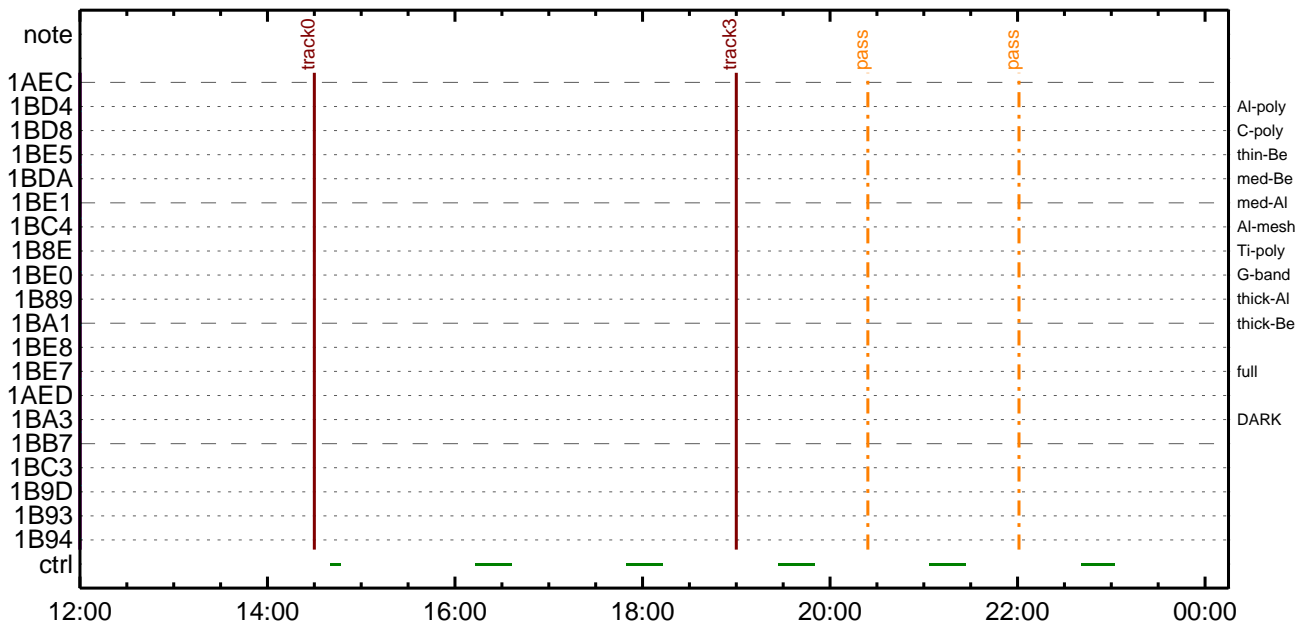
CMDI #0390 2018/03/25



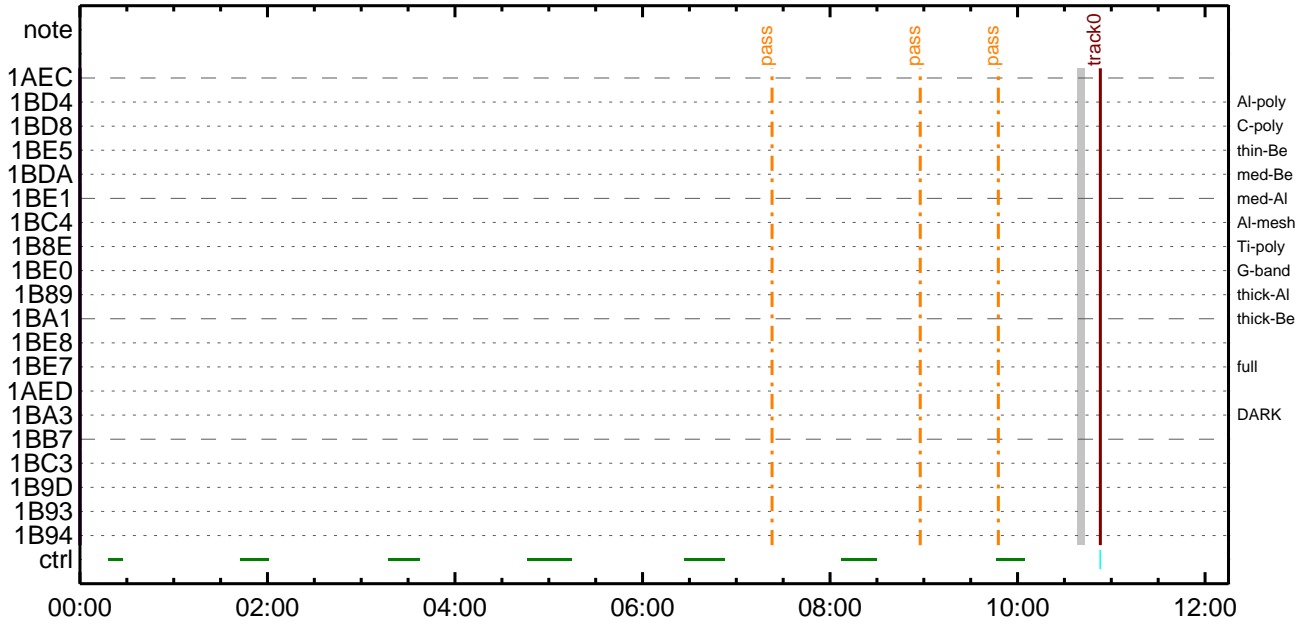
CMDI #0390 2018/03/26



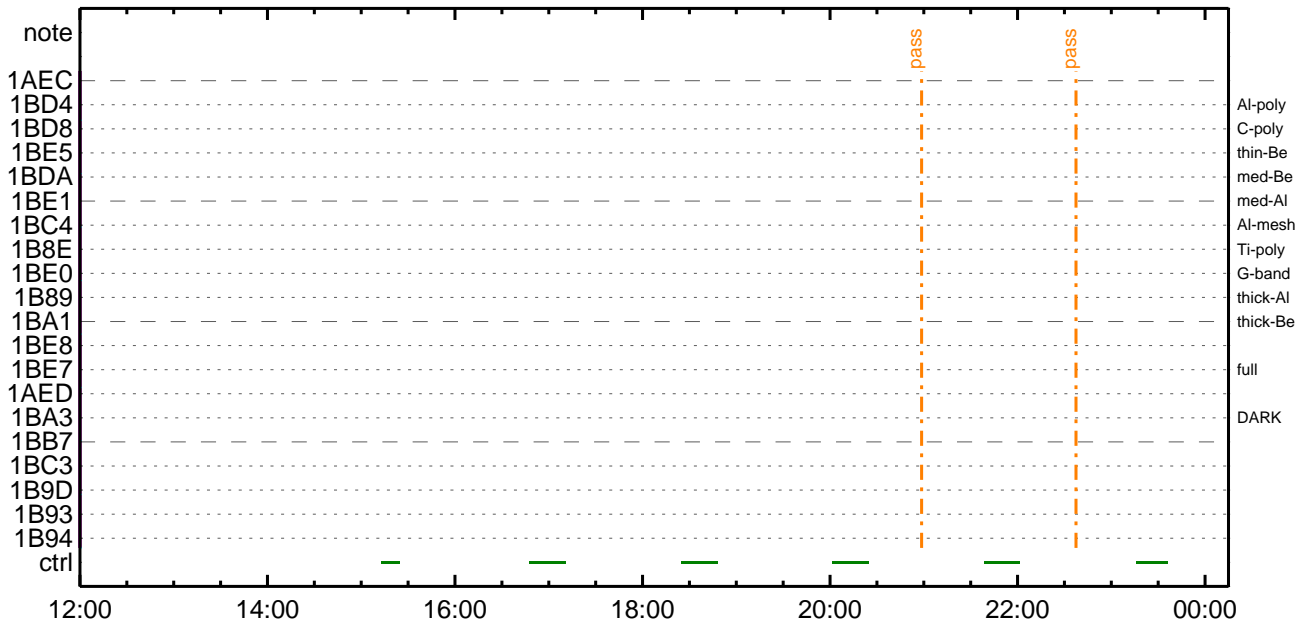
CMDI #0390 2018/03/26



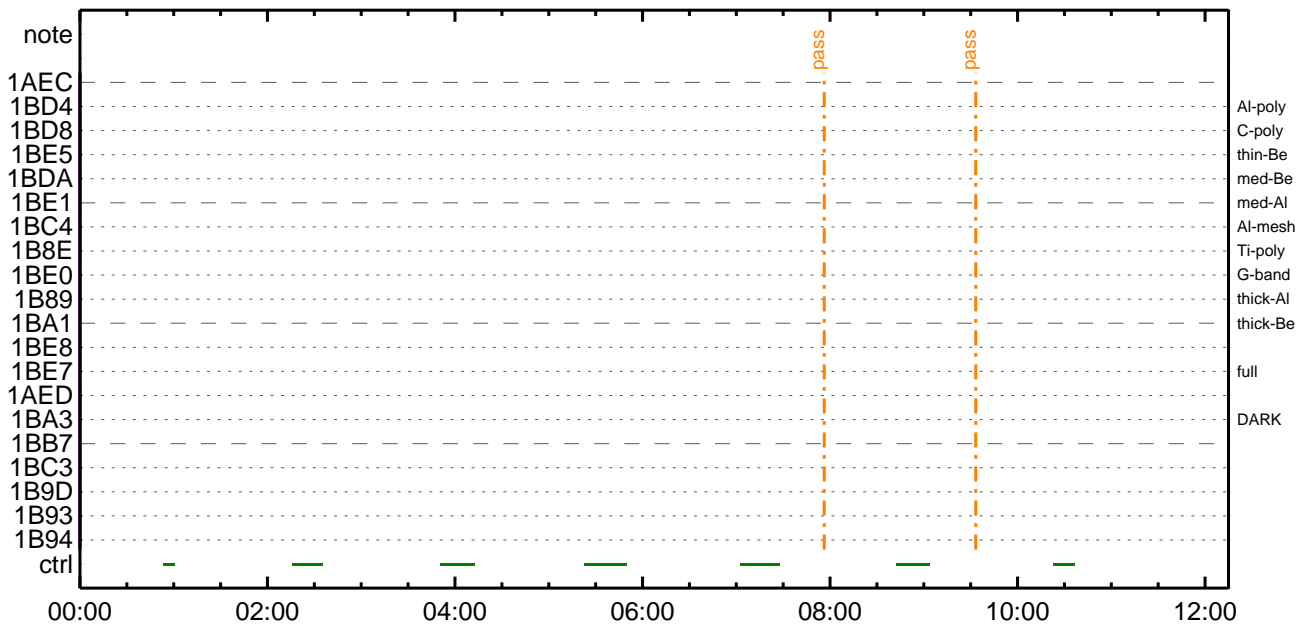
CMDI #0390 2018/03/27



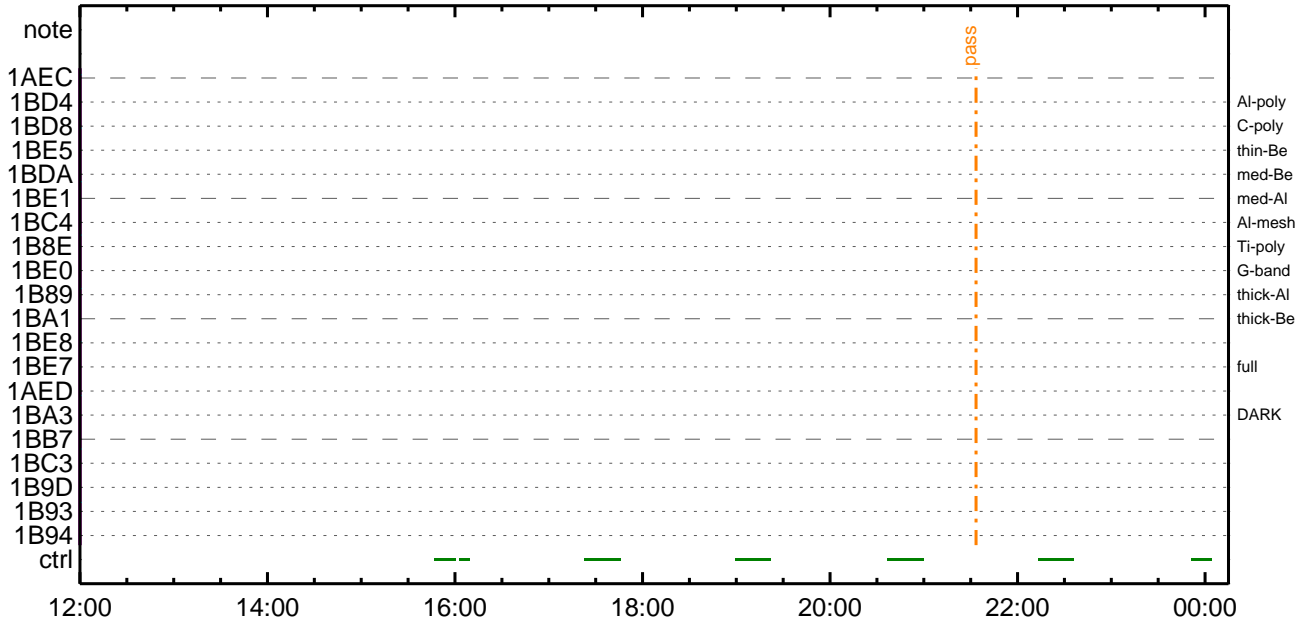
CMDI #0390 2018/03/27



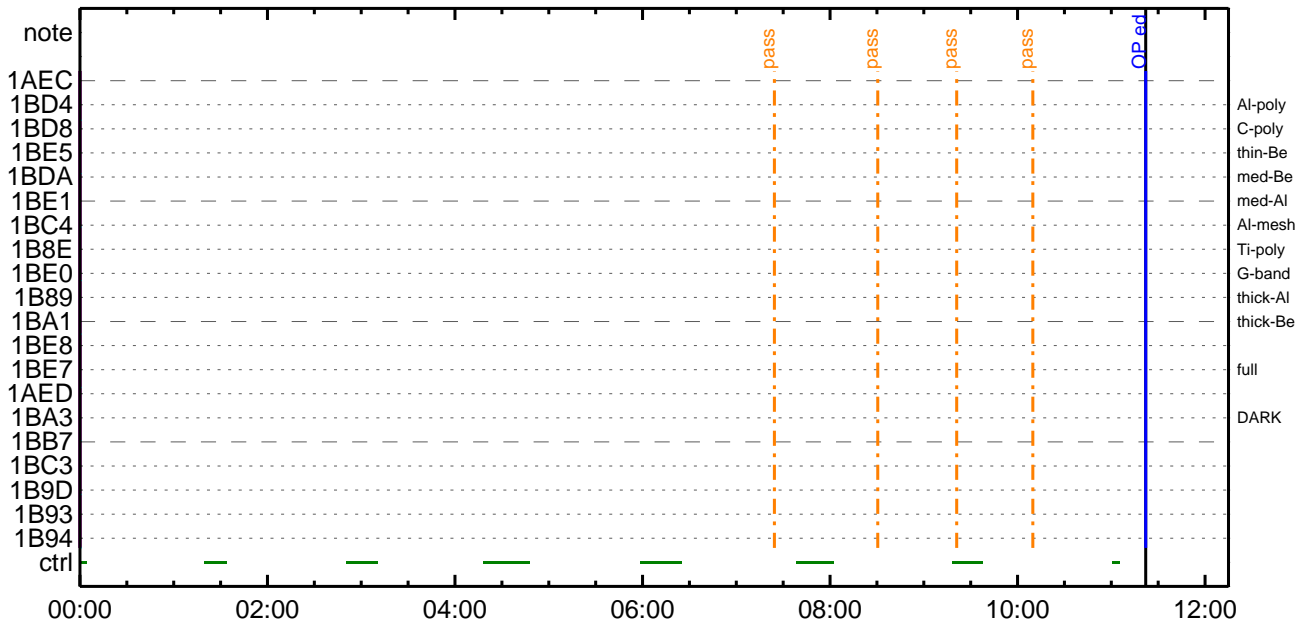
CMDI #0390 2018/03/28



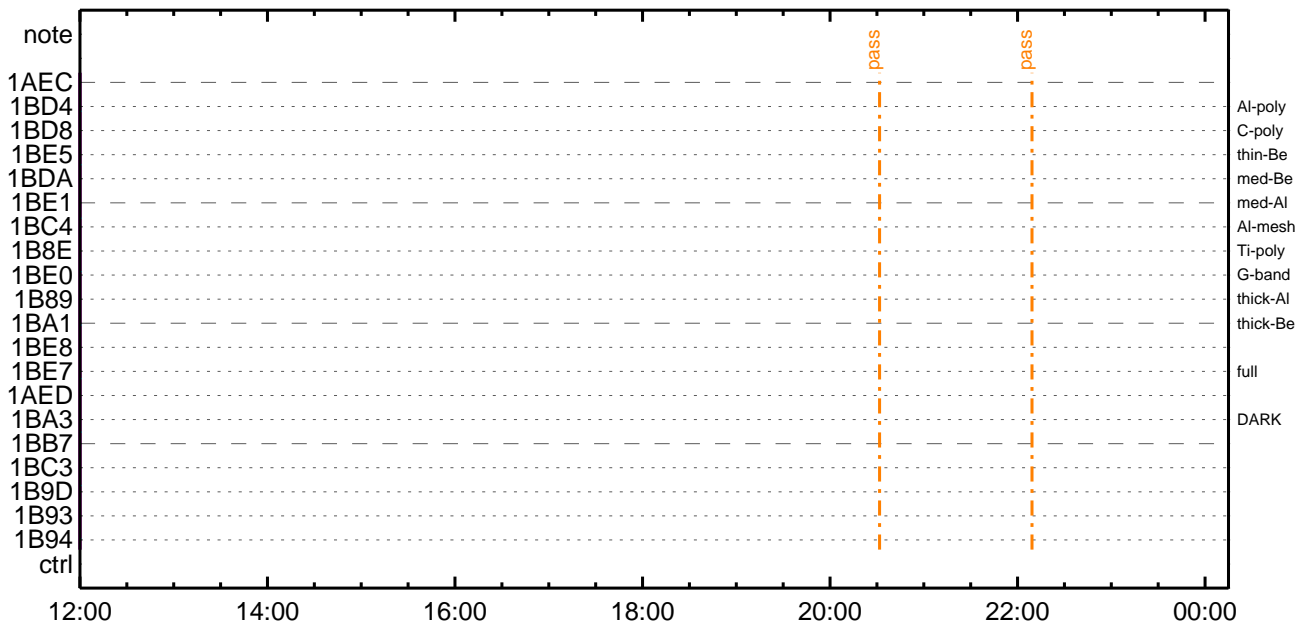
CMDI #0390 2018/03/28



CMDI #0390 2018/03/29



CMDI #0390 2018/03/29



(a) Spacecraft Operation Procedure (real-commands)

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main-260 2018-03-24 12:03:24 189 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁY$;¼Y³YF¥6YÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿¿ÒÁÒ•µ°È»Í×ÁÇ¿ÍYçYÁY×Yí;¼YÉ;ÈÈè¿µ•ííÉ;ÈÒÈ¼°ÇÓÒ•Ò¿¼ì¹ÇÒÍ;çÁ®, ùÒ¹ÒÈÒÒÇÁ+¿®Ò•ÒÈÒÒÒ³ÒÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYí;¼YÉ;|YÁY6Yx
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGYí;¼YÉ;ä
0019 . S. OP op-260:OP
0020 ()
0021 . S. OG og-260:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPí°èYÁY6Yx;ä
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. YÁY6Yx¼ªª î»Òð³ÍÇ$
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGÒÍ¼È¹ç•è²ÍOKÒð³ÍÇ$
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. YÁY6Yx¼ªª î»Òð³ÍÇ$
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGÒÍ¼È¹ç•è²ÍOKÒð³ÍÇ$
0062 C.
0063 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. YÁY6Yx¼ªª î»Òð³ÍÇ$
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OPÒÍ¼È¹ç•è²ÍOKÒð³ÍÇ$
0081 C.
0082 . C. ***** òÈ²¼ÒÍ¼Á´¶Í°ÒÈÈ-Ò°Á+¿® (¼áµ-YÁY6Yx¼½¼çÒðÁÓÃæÇªªÒ°ÒÈ¼ì¹ÇÒÇÒÁ) *****
0083 C. DHUYá;¼YÉ;È¼Y¼;Yí;¼YÉ;ÈÒÒÍáÒ¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE |§ OPOG UPLOADÒ-Á+¿®NGÒÍ¼ì¹ç;ç°È²¼ÒÍTI-CMDÁ+¿®ÒÍ¼Á¹ÒÒ•ÒÈÒÒÒ³ÒÈ;f
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0096 C.          0303; 03SET0EDUMP01E0iYNY10C100|030E; E
0097 C.
0098 C.          TIY3YBY0Y0E0DAD1 (UT)
0099 +. TI 2018-03-24 10:31:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.          03[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0102 C.
0103 +. TI 2018-03-24 10:31:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.          03[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0106 C.
0107 +. TI 2018-03-24 10:31:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.          03[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0110 C.
0111 +. TI 2018-03-24 10:35:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.          03[HK1_TI_CMD_NUM]          EQ          1COUNTUP
0114 C.
0115 C.          0E2%0IAE%iIN0IYA¥S¥AY-1aIU
0116 C.          03[HK1_TI_CMD_ENA/DIS]          EQ          ENA
0117 C.          03[HK1_TI_CMD_NUM]          EQ          4
0118 C.          03[HK1_NEXT_EXEC_PIM]          EQ          DHU
0119 C.          03[HK1_NEXT_EXEC_DC]          EQ          0xB3
0120 C.
0121 C.          *****
0122 C.          TIIF0EYAY0Yx
0123 C.          *****
0124 C.
0125 C.          TI_TBL(0x03AB00-0x03AEFF; § 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC          (03 ab 03 01 02)
0128 C.          03[HK1_DMP_TOP_ADRS_1]          EQ          07
0129 C.          03[HK1_DMP_TOP_ADRS_0]          EQ          2B
0130 C.          03[HK1_DMP_BLOCK_NUM]          EQ          3
0131 C.          03[HK1_DMP_REPEAT_NUM]          EQ          0
0132 C.          03[HK1_DMA_DMP_PIM]          EQ          DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC          (07 0b f8)
0135 C.          03[HK1_PKT_FORM_NO]          EQ          7
0136 C.          03[HK1_PKT_GEN_TIME]          EQ          0.25 s
0137 C.          03[HK1_S_TLM_BIT_RATE]          EQ          32k
0138 C.          03[HK1_X_TLM_BIT_RATE]          EQ          4M
0139 C.          03[HK1_DMP_CHK_FLG]          EQ          EXEC
0140 C.
0141 C.          YAY0Yx%aI»0d3IC§
0142 C.          03[HK1_DMP_CHK_FLG]          EQ          NON
0143 C.
0144 C.          RAM ID=TI_TBL0I%E1C.e2IOK0d3IC§
0145 C.
0146 C.          DHUYa; ¥E; E%Y%, ¥i; ¥E; E0d3a1
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC          (02 0a f8)
0149 C.          03[HK1_PKT_FORM_NO]          EQ          2
0150 C.          03[HK1_PKT_GEN_TIME]          EQ          0.5S
0151 C.          03[HK1_S_TLM_BIT_RATE]          EQ          32K
0152 C.          03[HK1_X_TLM_BIT_RATE]          EQ          4M
0153 C.
0154 C.          *****
0155 C.          SOT TI command set
0156 C.          *****
0157 C.          Execute, after the success of OP upload.
0158 +. TI 2018-03-24 10:35:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC          (41)
0161 C.          -----
0162 C.          HK1_TI_CMD_NUM          = 1 CNTUP [ ]
0163 C.          -----
0164 C.          ***** SOT END *****
0165 C.
0166 C.          ***** XRT START *****
0167 C.          Execute, after the success of OP upload.
0168 +. TI 2018-03-24 10:35:00.0
0169 DC 07-F0 MDP_XRT_MODE_STBY
0170 BC          (c3)
0171 C.          [ ] [HK1_TI_CMD_NUM]          EQ          1COUNTUP
0172 C.
0173 C.          ***** XRT END *****
0174 C.
0175 C.          ***** MDP 0AI0I»0Y0EA0010EDCBC•x2E *****
0176 C.          (%a0IY0YAYBYBYEYaY0E0E%000%AA»U010E)
0177 S. DC-BC dcbc-402:DCBC
0178 (MDP_known_event)
0179 C.
0180 C.
0181 C.          ***** YDY1.I Daily±; IN0E'0010EDCBC•x2E *****
0182 S. DC-BC dcbc-153:DCBC
0183 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0184 C.
0185 C.
0186 C.          ;aLOSAYAYAY-¼A»Ü; a
0187 C.
0188 C.          ***** LOS *****
0189 C.

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0096 C.
0097 C.
0098 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE STATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCs Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 C.
0130 . C. ***** MDP 'ûÃîñî»ò¼ÿñÈÂðñ¹ñèDCBC•x²è *****
0131 C. (¼â°îÿÓÿÃÿÈÿPÿËÿáÿçÿèñÈ¼ñ¼Ã»Ûñ¹ñè)
0132 . S. DC-BC dcbc-402:DCBC
0133 (MDP_known_event)
0134 C.
0135 C.
0136 . C. ***** ÿDÿ¹•Ï Daily±;îÑñÈ'Øñ¹ñèDCBC•x²è *****
0137 . S. DC-BC dcbc-153:DCBC
0138 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0139 C.
0140 C.
0141 . C. ;ãLOSÿÃÿSÿÿÿ¼Ã»Û;ã
0142 C.
0143 . C. ***** LOS *****
0144 C.

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(a) Spacecraft Operation Procedure (real-commands)

```
main-262 2018-03-24 12:03:24 138 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿òÀø•µ°Æ»Í×ÁÇóÍYçYÁY×YÍ;¼YÉ;ÈÈè%µ•ííÉ;ÈøÈ¼°ÇÓø•ø¿¼í¹çøí;çÀ®, ùø¹øèøøøÇÁ+¿®ø•øÈøøøøøÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop SP table >
0018 +. DC 07-F0 MDP_SP_CTRL_MANU
0019 BC (61)
0020 C. -----
0021 C. MDP_SP_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload SP Observation Table>
0025 . S. RAM ram-285:MDP_OBS_S
0026 ()
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_S >
0029 +. DC 07-F0 MDP_DUMP_SPTBL
0030 BC (83 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_S verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 C. *****
0036 C. SOT TI command set
0037 C. *****
0038 C. Execute, after the success of TBL upload.
0039 +. TI 2018-03-24 10:35:18.0
0040 DC 07-F0 MDP_SOT_MODE_OBSV
0041 BC (40)
0042 C. -----
0043 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0044 C. -----
0045 C.
0046 C.
0047 C. ***** XRT START *****
0048 C.
0049 +. DC 07-F0 MDP_XRT_CTRL_MANU
0050 BC (c1)
0051 +. DC 07-F0 MDP_XRT_CTRL_MANU
0052 BC (c1)
0053 +. DC 07-F0 MDP_XRT_MODE_STBY
0054 BC (c3)
0055 . C. ----- Success Verify ? OK / NG_____
0056 C.
0057 C. XRT Obs. Table Upload
0058 . S. RAM ram-291:MDP_OBS_X
0059 ()
0060 C.
0061 +. DC 07-F0 MDP_DUMP_XRTTBL
0062 BC (84 07 00 00 00 3a d4)
0063 . C. ----- Comparison Check ? OK / ERR _____
0064 C.
0065 C.
0066 +. DC 07-F0 MDP_XRT_ROI_SET
0067 BC (cd 01 b1 b1 04 04)
0068 +. DC 07-F0 MDP_XRT_ROI_SET
0069 BC (cd 02 b1 b1 08 08)
0070 +. DC 07-F0 MDP_XRT_ROI_SET
0071 BC (cd 03 b1 b1 08 08)
0072 +. DC 07-F0 MDP_XRT_ROI_SET
0073 BC (cd 04 b1 b1 06 06)
0074 +. DC 07-F0 MDP_XRT_ROI_SET
0075 BC (cd 05 85 83 06 06)
0076 +. DC 07-F0 MDP_XRT_ROI_SET
0077 BC (cd 06 85 83 06 06)
0078 +. DC 07-F0 MDP_XRT_ROI_SET
0079 BC (cd 07 85 83 08 08)
0080 +. DC 07-F0 MDP_XRT_ROI_SET
0081 BC (cd 08 80 80 20 20)
0082 +. DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 09 80 80 20 08)
0084 +. DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 0a 80 80 08 20)
0086 +. DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 0b 80 60 20 18)
0088 +. DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 0c a0 80 18 20)
0090 +. DC 07-F0 MDP_XRT_ROI_SET
0091 BC (cd 0d 80 80 08 08)
0092 +. DC 07-F0 MDP_XRT_ROI_SET
0093 BC (cd 0f 80 80 06 06)
0094 +. DC 07-F0 MDP_XRT_ROI_SET
0095 BC (cd 10 80 80 08 08)
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0096 + DC 07-F0 MDP_XRT_FLD_ENA
0097 BC (d8)
0098 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0099 BC (c8)
0100 + DC 07-F0 MDP_XRT_ARS_DIS
0101 BC (d5)
0102 + DC 07-F0 MDP_XRT_AEC_RESET
0103 BC (d0)
0104 + DC 07-F0 MDP_XRT_FLD_RESET
0105 BC (da)
0106 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0107 BC (c4 06)
0108 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0109 BC (c5 0d)
0110 . C. ----- Success Verify ? OK / NG ____
0111 C.
0112 C.
0113 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0114 C.
0115 +. DC 07-F0 MDP_XRT_MODE_OBSV
0116 BC (c2)
0117 +. TI 2018-03-24 10:35:02.0
0118 DC 07-F0 MDP_XRT_MODE_OBSV
0119 BC (c2)
0120 . C. ----- Success Verify ? OK / NG ____
0121 C.
0122 C. ***** XRT END *****
0123 C.
0124 . C. ***** MDP 'ûÃîñî»ö¼ÿñÊÂðñ¹ñèDCBC•x²è *****
0125 C. (¼â°îÿÓÿÃÿÈÿÞÿËÿàÿçÿèñ¼¼ñ¼Ã»Ûñ¹ñè)
0126 . S. DC-BC dcbc-402:DCBC
0127 (MDP_known_event)
0128 C.
0129 C.
0130 . C. ***** ÿDÿ¹•î Daily±;îññÊ'Øñ¹ñèDCBC•x²è *****
0131 . S. DC-BC dcbc-153:DCBC
0132 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0133 C.
0134 C.
0135 . C. ;ãLOSÿÃÿSÿËÿ-¼Ã»Û;ã
0136 C.
0137 . C. ***** LOS *****
0138 C.
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Mar 24, 18 12:03

XRT_OGLIST_0390.chk

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*** OP Sequence for XRT ***

2018/03/24	10:37:00.5	XRT_CTRL_MANU_431_OG [0x1af]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	10:37:10.5	XRT_FOCUS_RECALIBRATE_416_OG [0x1a0]							
		XRT_FOCUS_RECAL	2	07-F8	78	00			
2018/03/24	10:41:10.5	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2018/03/24	10:45:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	10:45:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	10:45:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2018/03/24	10:46:00.0	AOCS_Ore-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	00	54	8b	01	ca
2018/03/24	10:46:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2018/03/24	10:46:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2018/03/24	10:46:22.0	XRT_AEC_RESET_448_OG [0x1c0]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2018/03/24	10:46:24.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2018/03/24	10:46:26.0	XRT_FLD_RESET_433_OG [0x1b1]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2018/03/24	10:48:56.0	XRT_QT_PROG_SET_437_OG [0x1b5]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	02			
2018/03/24	10:48:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d			
2018/03/24	10:49:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2018/03/24	15:05:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	15:05:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	15:05:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2018/03/24	15:05:36.0	XRT_PREFLR_STRT_406_OG [0x196]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2018/03/24	15:08:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2018/03/24	15:16:30.0	XRT_Custom_430_OG [0x1ae]							
2018/03/24	15:17:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2018/03/24	16:40:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	16:40:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	16:40:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2018/03/24	16:40:06.0	XRT_PREFLR_STRT_406_OG [0x196]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2018/03/24	16:43:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2018/03/24	17:03:30.0	XRT_Custom_430_OG [0x1ae]							
2018/03/24	17:04:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2018/03/24	18:17:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	18:17:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	18:17:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2018/03/24	18:17:06.0	XRT_PREFLR_STRT_406_OG [0x196]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2018/03/24	18:20:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2018/03/24	18:40:30.0	XRT_Custom_430_OG [0x1ae]							
2018/03/24	18:41:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2018/03/24	18:59:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	18:59:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	18:59:58.0	XRT_FOCUS_POSITION_403_OG [0x193]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2018/03/24	19:00:00.0	AOCS_Ore-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00	00	00	00	00
2018/03/24	19:00:18.0	XRT_FLD_DIS_425_OG [0x1a9]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2018/03/24	19:02:54.0	XRT_FLRCTRL_DIS_405_OG [0x195]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2018/03/24	19:02:56.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2018/03/24	19:02:58.0	XRT_QT_PROG_SET_434_OG [0x1b2]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	12			
2018/03/24	19:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2018/03/24	19:09:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2018/03/24	19:09:56.0	XRT_FOCUS_POSITION_439_OG [0x1b7]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	

2018/03/24	19:10:00.0	AOCS_OrE-point_Start_3_OG [0x099] AOCU_NM	5	02-76	00 ad 59 00 00
2018/03/24	19:10:16.0	XRT_FLD_DIS_422_OG [0x1a6] MDP_XRT_FLD_DIS	1	07-F0	d9
2018/03/24	19:24:54.0	XRT_FLRCTRL_DIS_427_OG [0x1ab] MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2018/03/24	19:24:56.0	XRT_ARS_DIS_445_OG [0x1bd] MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/24	19:24:58.0	XRT_QT_PROG_SET_409_OG [0x199] MDP_XRT_QT_PROG_SET	2	07-F0	c4 14
2018/03/24	19:25:00.0	XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/24	21:09:54.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/24	21:09:56.0	XRT_FOCUS_POSITION_439_OG [0x1b7] XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2018/03/24	21:10:00.0	AOCS_OrE-point_Start_4_OG [0x09a] AOCU_NM	5	02-76	00 00 00 56 35
2018/03/24	21:10:16.0	XRT_FLD_DIS_422_OG [0x1a6] MDP_XRT_FLD_DIS	1	07-F0	d9
2018/03/24	21:24:54.0	XRT_FLRCTRL_DIS_427_OG [0x1ab] MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2018/03/24	21:24:56.0	XRT_ARS_DIS_445_OG [0x1bd] MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/24	21:24:58.0	XRT_QT_PROG_SET_442_OG [0x1ba] MDP_XRT_QT_PROG_SET	2	07-F0	c4 07
2018/03/24	21:25:00.0	XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/24	23:09:54.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/24	23:09:56.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/24	23:09:58.0	XRT_FOCUS_POSITION_403_OG [0x193] XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/03/24	23:10:00.0	AOCS_OrE-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00
2018/03/24	23:10:18.0	XRT_FLD_ENA_411_OG [0x19b] MDP_XRT_FLD_ENA	1	07-F0	d8
2018/03/24	23:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c] MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2018/03/24	23:10:22.0	XRT_AEC_RESET_448_OG [0x1c0] MDP_XRT_AEC_RESET	1	07-F0	d0
2018/03/24	23:10:24.0	XRT_ARS_DIS_423_OG [0x1a7] MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/24	23:10:26.0	XRT_FLD_RESET_433_OG [0x1b1] MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/24	23:12:56.0	XRT_QT_PROG_SET_417_OG [0x1a1] MDP_XRT_QT_PROG_SET	2	07-F0	c4 09
2018/03/24	23:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8] MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2018/03/24	23:29:00.0	XRT_Custom_430_OG [0x1ae]			
2018/03/24	23:30:00.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/25	00:45:30.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	00:45:32.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	00:45:34.0	XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/25	00:45:36.0	XRT_PREFLR_STRT_406_OG [0x196] MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/25	00:48:44.0	XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/25	00:53:00.0	XRT_Custom_430_OG [0x1ae]			
2018/03/25	00:54:00.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/25	02:08:30.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	02:08:32.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	02:08:34.0	XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/25	02:08:36.0	XRT_PREFLR_STRT_406_OG [0x196] MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/25	02:09:54.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	02:09:56.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	02:09:58.0	XRT_FOCUS_POSITION_403_OG [0x193] XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/03/25	02:10:00.0	AOCS_OrE-point_Start_5_OG [0x09b] AOCU_NM	5	02-76	03 00 00 00 00
2018/03/25	02:10:18.0	XRT_FLD_ENA_411_OG [0x19b] MDP_XRT_FLD_ENA	1	07-F0	d8
2018/03/25	02:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c] MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2018/03/25	02:10:22.0	XRT_AEC_RESET_448_OG [0x1c0] MDP_XRT_AEC_RESET	1	07-F0	d0
2018/03/25	02:10:24.0	XRT_ARS_DIS_423_OG [0x1a7] MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/25	02:10:26.0	XRT_FLD_RESET_433_OG [0x1b1] MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/25	02:11:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]			

2018/03/25	02:12:56.0	XRT_QT_PROG_SET_446_OG [0x1be]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/25	02:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10
2018/03/25	02:28:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2018/03/25	02:29:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/25	03:44:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	03:44:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	03:44:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/25	03:44:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/25	03:47:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/25	04:05:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/25	04:06:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	05:14:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	05:14:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/25	05:14:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/25	05:14:36.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/25	05:17:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/25	05:42:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	05:43:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	05:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	05:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	XRT_FOCUS_POSITION_403_OG [0x193]	4	07-F8	22 ff aa 00
2018/03/25	05:59:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	AOCS_ORe-point_Start_2_OG [0x098]	5	02-76	00 00 00 00 00
2018/03/25	06:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2018/03/25	06:00:18.0	XRT_FLD_DIS_425_OG [0x1a9]	MDP_XRT_FLD_DIS	1	07-F0	d9
2018/03/25	06:02:54.0	XRT_FLRCTRL_DIS_405_OG [0x195]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2018/03/25	06:02:56.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/25	06:02:58.0	XRT_QT_PROG_SET_434_OG [0x1b2]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 12
2018/03/25	06:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/25	06:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/25	06:10:00.0	AOCS_ORe-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	03 00 00 00 00
2018/03/25	06:10:00.5	XRT_TCIB_XRT_S_HTR_A_ENA_432_OG [0x1b0]	TCIB_XRT_S_HTR_A_ENA	0	04-BC	
2018/03/26	11:00:00.0	AOCS_ORe-point_Start_6_OG [0x09c]	AOCU_NM	5	02-76	00 ca a8 01 ca
2018/03/26	14:30:00.0	AOCS_ORe-point_Start_7_OG [0x09d]	AOCU_NM	5	02-76	00 39 ca fe 36
2018/03/26	19:00:00.0	AOCS_ORe-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	03 00 00 00 00
2018/03/27	10:52:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/27	10:53:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00