

Period: 2018/03/20 11:30:00 - 2018/03/24 10:36:00

XOB #1BE7: Synoptic Q95 2x2 - Al/mesh(512/2048/4096) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(512/4096/8192)														
Term			Pointing (x, y)				Comment							
03/20 18:02:30 - 03/20 19:11:00			Fixed (0.0, 0.0)				synoptic, shifted -0.5 min							
03/21 05:46:30 - 03/21 05:53:24			Fixed (0.0, 0.0)				synoptic, shifted -16.5 min							
03/21 15:51:30 - 03/21 15:58:24			Fixed (0.0, 0.0)				synoptic, shifted manually							
03/22 06:03:00 - 03/22 06:09:54			Fixed (0.0, 0.0)				synoptic							
PROG= 08 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= 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= 23 1-time(s) 2.0sec														
└┐ 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														
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval														

XOB #1BC3: AR-(filter ratio Al/poly thin-Be), 512x512 at 1064 1048, with G-band 1ms, PFB, 45s cad														
Term			Pointing (x, y)						Comment					
03/20 19:37:36 - 03/21 05:43:24			Fixed (865.0, 302.0)						# Cont,					
PROG= 04 Inf.-time(s)														
Subr= 1		1-time(s)		2.0sec										
└ Seqn= 69		1-time(s)		2.0sec										
└┐		Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	DPCM	0	0	2.0sec
└┐		Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	DPCM	0	0	2.0sec
└┐		Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	512x512 (1064, 1048)	Q=98	0	0	2.0sec
Subr= 2		1-time(s)		2.0sec										
└ Seqn= 66		40-time(s)		45.0sec										
└┐		thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec
└┐		Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec
└┐		thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
└┐		Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
└┐		thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
└┐		Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	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 c

Term			Pointing (x, y)			Comment												
03/21 05:56:30 - 03/21 09:30:30			Fixed (0.0, 0.0)			# HOP349												
03/22 06:13:00 - 03/22 09:09:54			Fixed (0.0, 0.0)			# HOP349												
PROG= 09																		
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	

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
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 512

Term	Pointing (x, y)	Comment
03/20 11:43:00 - 03/20 17:34:00	Fixed (865.0, 302.0)	# OP start + 10min, AR12702
03/20 19:37:36 - 03/21 05:43:24	Fixed (865.0, 302.0)	# Cont,
03/21 05:56:30 - 03/21 09:30:30	Fixed (0.0, 0.0)	# HOP349
03/21 09:52:37 - 03/21 15:48:24	Fixed (-20.0, -951.0)	# HOP206 S-pole
03/21 16:01:30 - 03/21 17:39:54	Track (-20.0, 69.0) @ 03/21 15:58:30	# QS observation with high cadence.
03/21 17:43:00 - 03/22 05:59:54	Track (135.8, -1.5) @ 03/21 17:40:00	# QS observation.
03/22 06:13:00 - 03/22 09:09:54	Fixed (0.0, 0.0)	# HOP349
03/22 09:13:00 - 03/22 10:52:40	Track (276.2, -5.6) @ 03/22 09:10:00	# QS observation

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= 87	1-time(s)	2.0sec
Open/G-band	Open/G-band open	Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec
Open/G-band	Open/G-band close	Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec
Open/thick-Al	Open/thick-Al close	Safe Dark 1.00s Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec
Open/thick-Al	Open/thick-Al close	Safe Dark 1.00s Obs 2x2 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

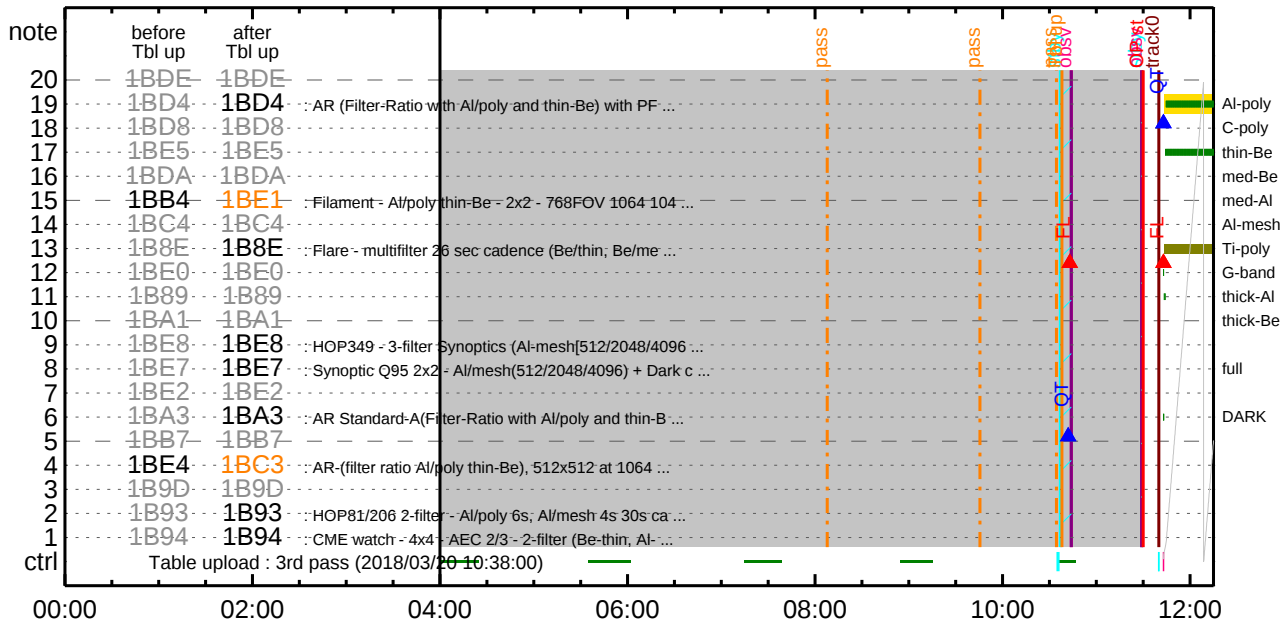
* * * * *

Flare Detection

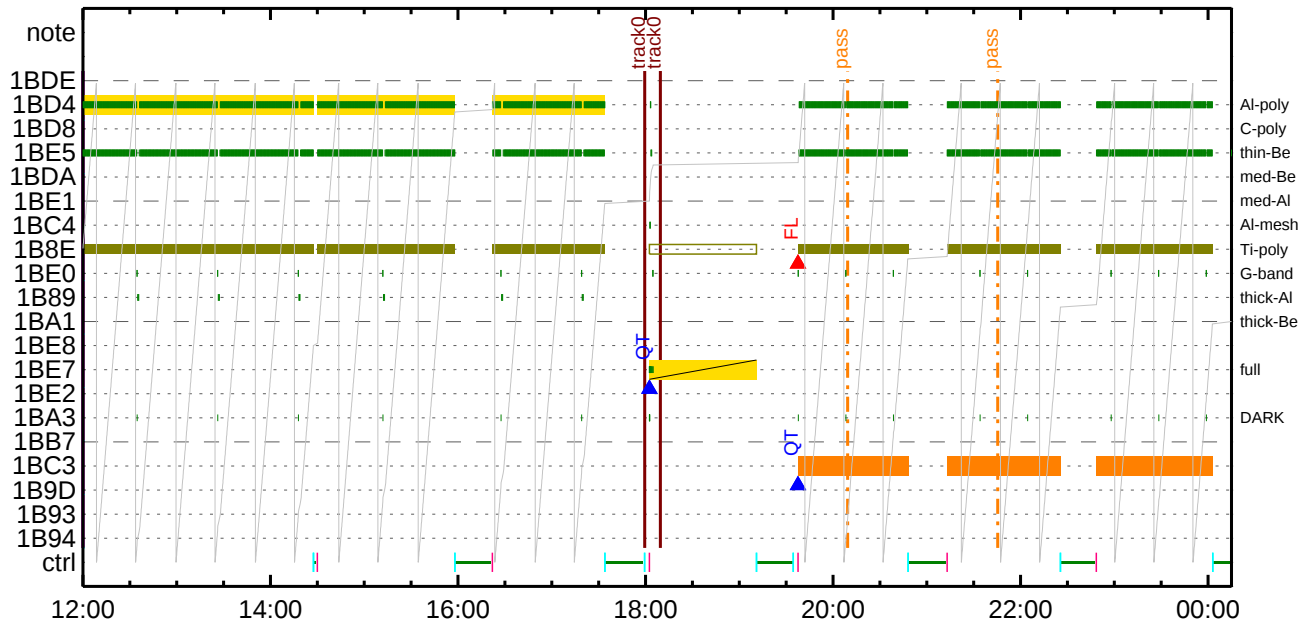
* * * * *

FLD Patrol												
Term	Pointing (x, y)		Comment									
03/20 19:34:54 - 03/21 05:43:48	Fixed (865.0, 302.0)		# Cont,									
03/21 05:53:48 - 03/21 15:48:48	Fixed (0.0, 0.0)		# HOP349									
03/21 15:58:48 - 03/22 06:00:18	Track (-20.0, 69.0) @ 03/21 15:58:30		# QS observation with high cadence.									
03/22 06:10:18 - 03/24 10:36:00	Fixed (0.0, 0.0)		# HOP349									
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

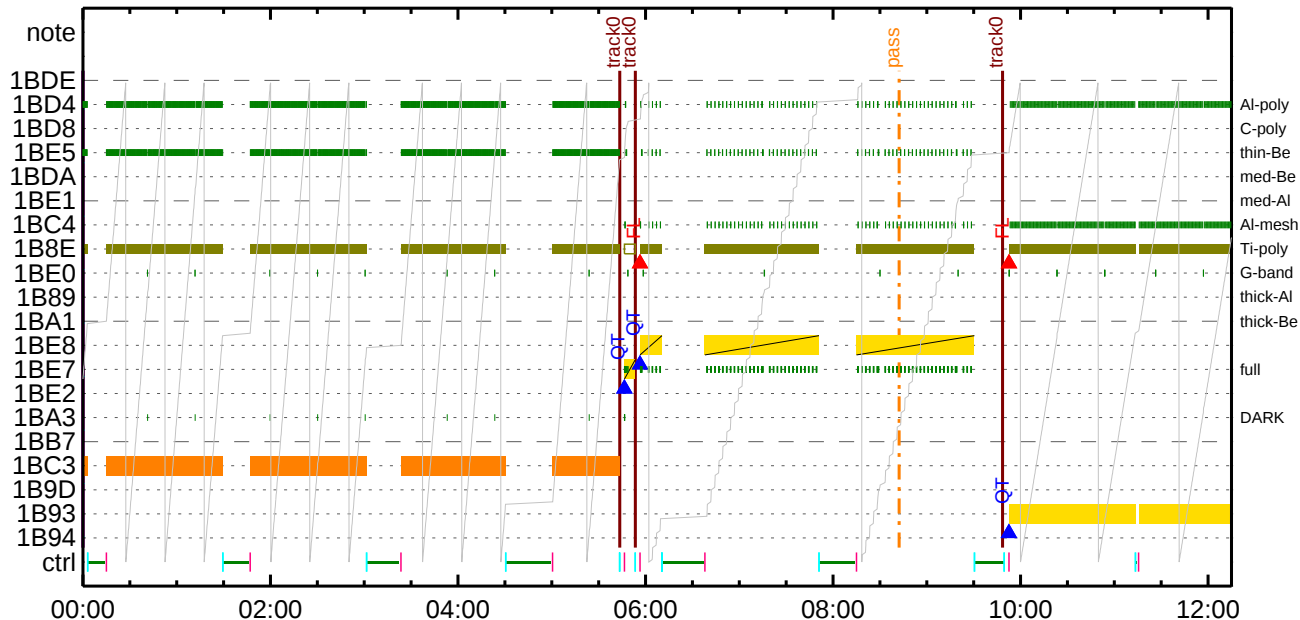
CMDI #0381 2018/03/20



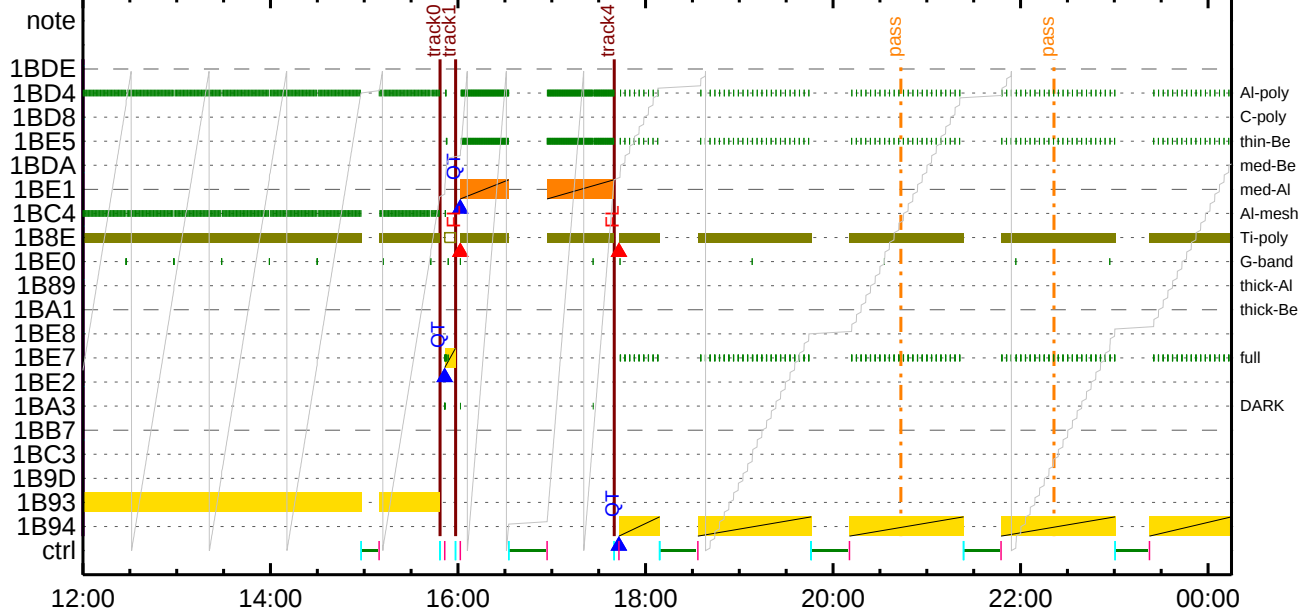
CMDI #0381 2018/03/20



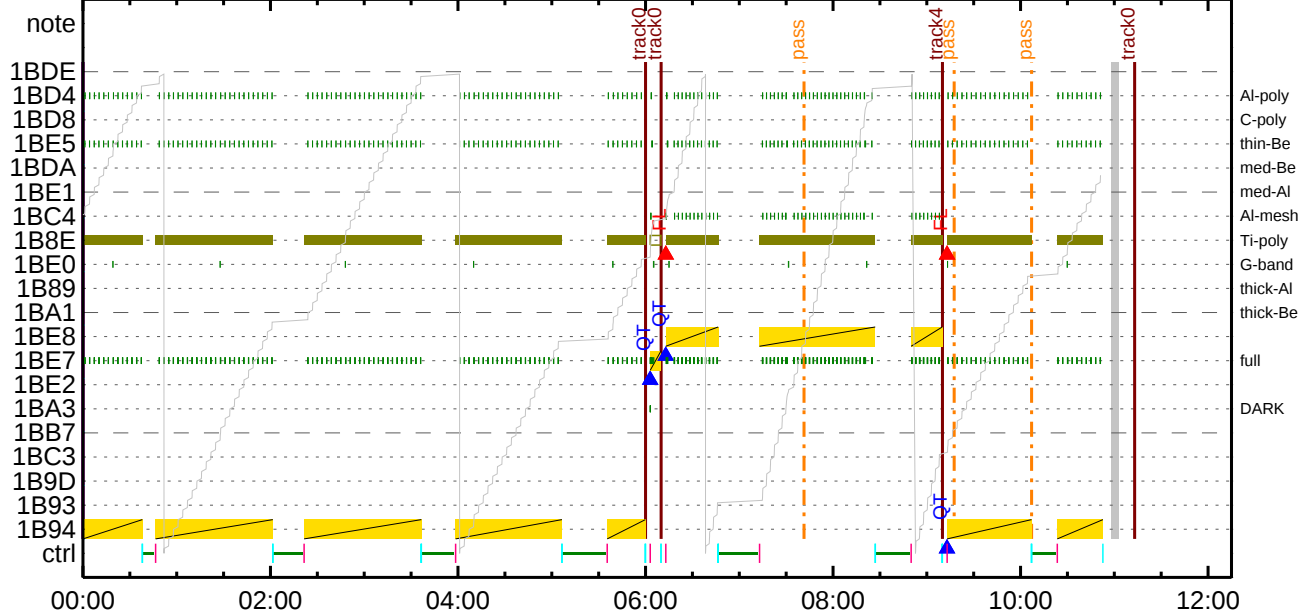
CMDI #0381 2018/03/21



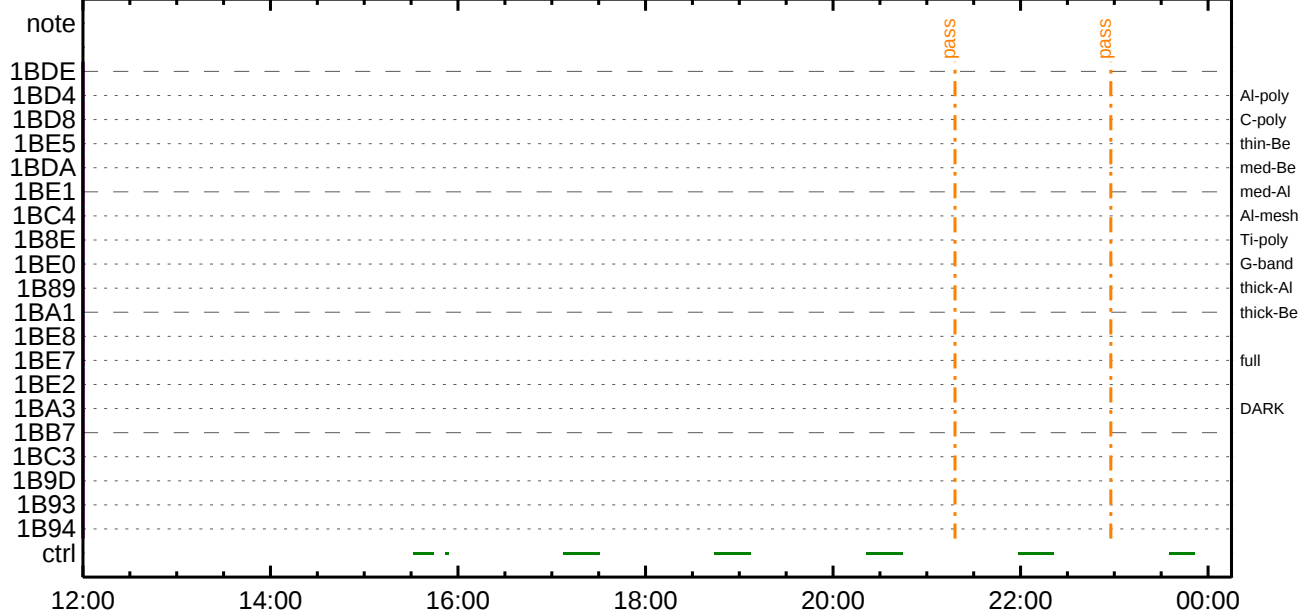
CMDI #0381 2018/03/21



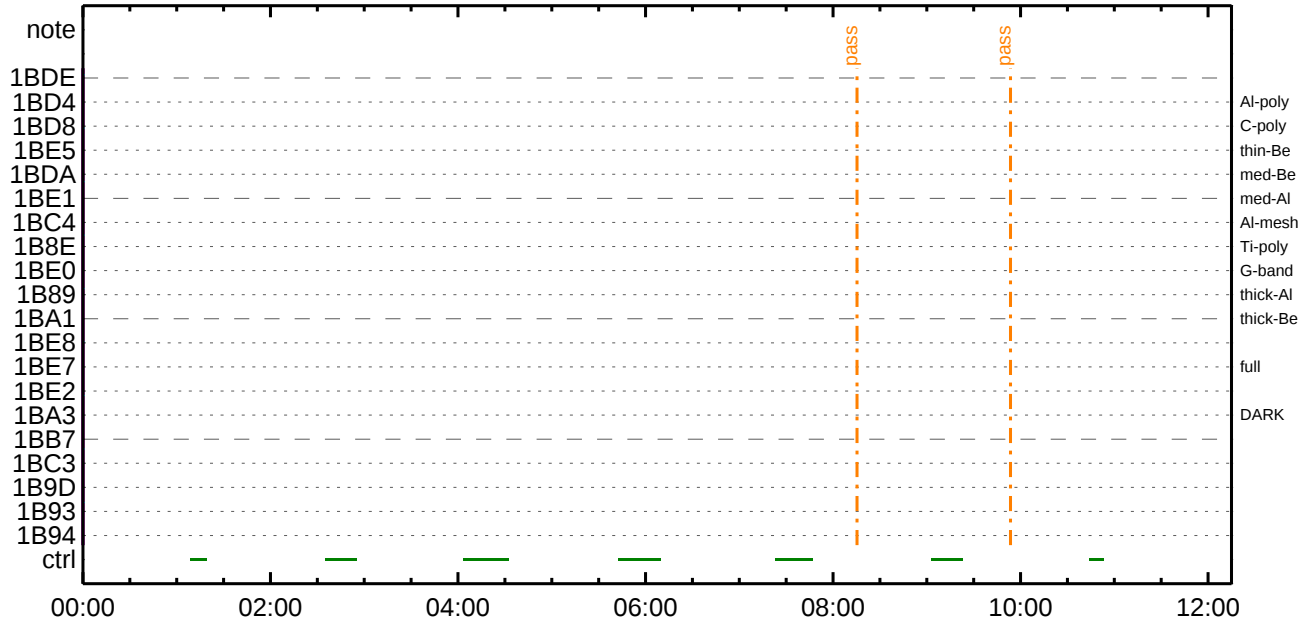
CMDI #0381 2018/03/22



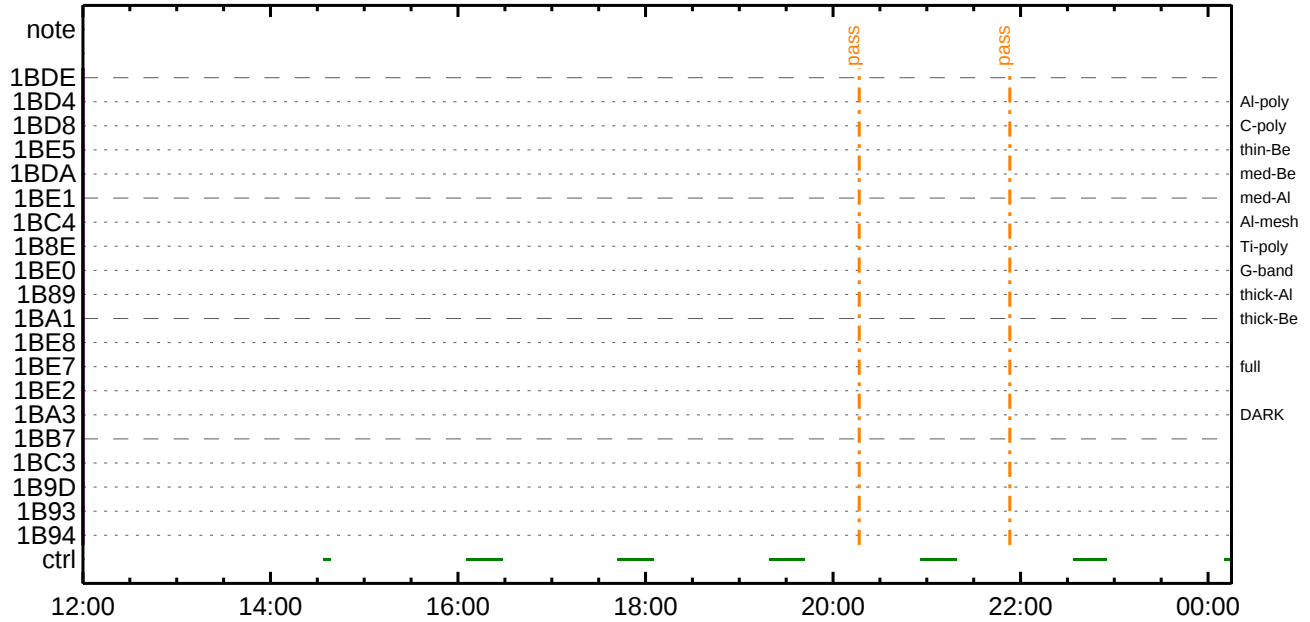
CMDI #0381 2018/03/22



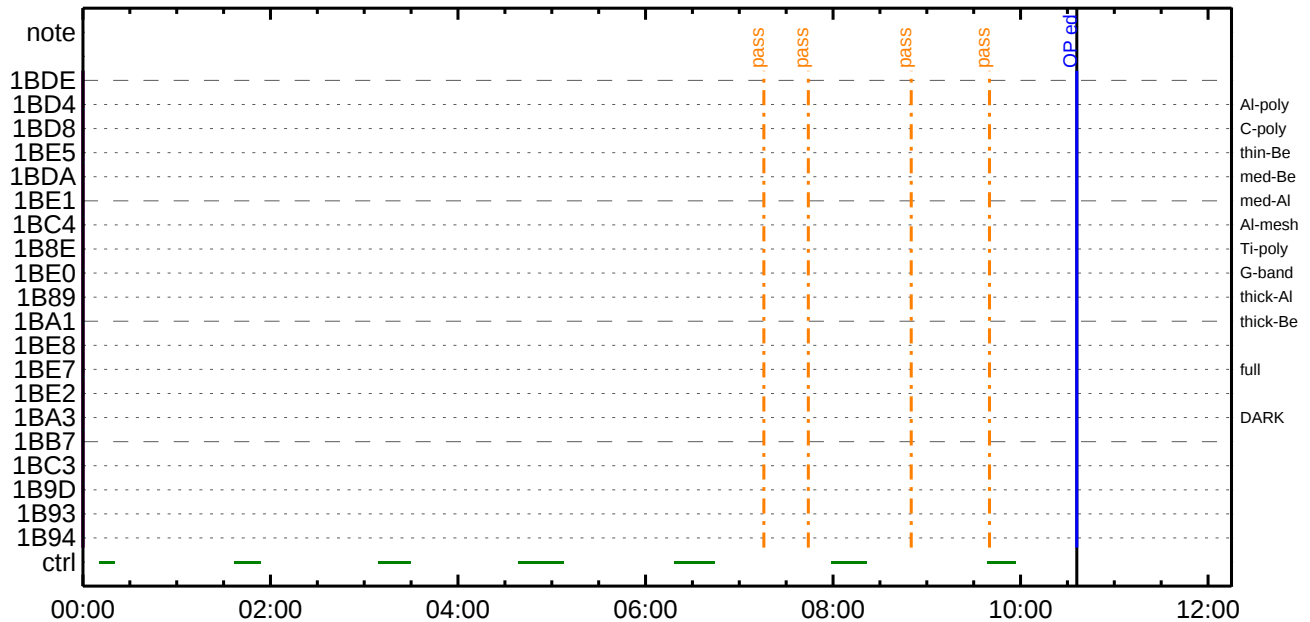
CMDI #0381 2018/03/23



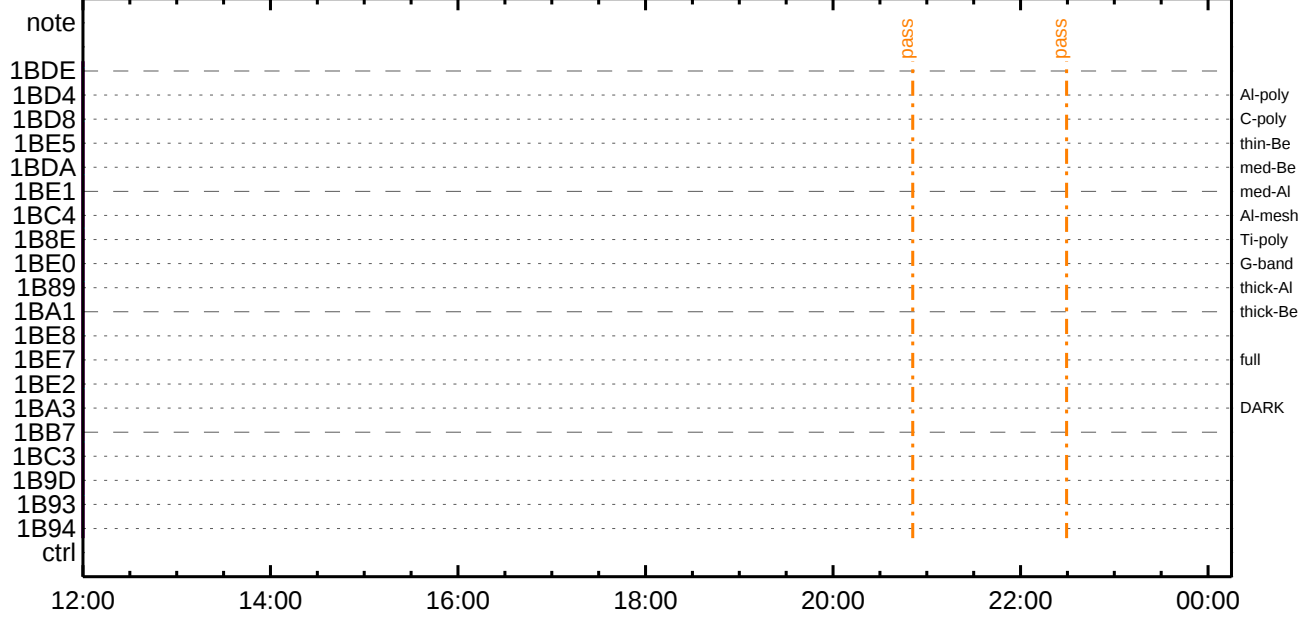
CMDI #0381 2018/03/23



CMDI #0381 2018/03/24



CMDI #0381 2018/03/24



(a) Spacecraft Operation Procedure (real-commands)

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main-249 2018-03-20 13:36:17 262 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. iãAOS¥Á¥S¥Ã¥¼Á»Üjã
0005 C.
0006 C. ¥À¥Bj¼¥³¥P¥Ó¥ÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Āi;Ē¿¿A¤•µ°Æ»İ×AÇ¤İ¥¢¥Á¥×¥İj¼¥ÉjĒĒē½µ•İĒĒjĒē½°Ç¿¤•¤¿¼ı¹Ç¤İjÇÀ®, Ü¤ı¤ē¤¤¤ÇÁ÷¿®¤•¤Ē¤¤¤¤ēj£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ÷¿®µjON
0016 C. *****
0017 C. ¨ °ÆĀ, İ×ĒY¤¤ŁOS¤¤¤Ç¤İ»p´Ŏ¤Ŏıİİ, ¤•jÇĒŎİ×¤ĒXĀŎON¤İı¹Ŏ¤Ēı¤Ē¤¤¤¤ēj£
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¥Đ¥Ó¥É¥İ¥Ã¥¼ŎĀŎ¤¬°ĀĀē¤•¤¿¤ēj¢°Ē²¼¤İ°ÆĀ, ¼ē½Ç¤Ŏ½Āı¹Ŏ¤ı¹¤ēj£
0030 C.
0031 . C. *****
0032 C. DR PT1 Āİ¼ı°ÆĀ
0033 C. *****
0034 C. ¨ ¨ RESTARTjĒPT1jĒ¤•¤¿¤¤¤¼ı¹Ç¤İj¢°Ē²¼¤İ¼Āı¹Ŏ¤»¤°j¢DCBC-150¤Ŏ¿Ēē¤¤j£
0035 C.
0036 . C. jãPT1°ÆĀ, ³«»İjã
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 (¼Āı¹Ŏ, j¼Ú)
0043 C. ¢¢[HK1_REP_STA/STP] EQ START (¼Āı¹Ŏ, j¼Ú)
0044 C. ¢¢[HK1_X_VC4_ON/OFF] EQ ON (¼Āı¹Ŏ, j¼Ú)
0045 C.
0046 . C. jã¥¢¥Ó¥Æ¥ĒĀŬĀŎjĒĀ•Ā°²ŎĒŎjĒ, Ā¤İ°ÆĀ, °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 (¼Āı¹Ŏ, j¼Ú)
0050 C. ¢¢[HK1_REP_STA/STP] EQ START (¼Āı¹Ŏ, j¼Ú)
0051 C. ¢¢[HK1_X_VC4_ON/OFF] EQ ON (¼Āı¹Ŏ, j¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ÆĀ, ¤¬¼«Æ°ĀĀ»İ¤•¤¿, Āj¢°Ē²¼¤Ŏ½Āı¹Ŏ¤ı¹¤ēj£
0055 C. ¥¢¥Ó¥Æ¥ĒĀŬĀŎ¤¤Ā•Ā°²ŎĒŎ¤¬ŎĀ¤¤¼ı¹Ç¤İ °İ»¤ı¹¤ē¤¤¤ÇĀŎ¤Āj£
0056 C.
0057 . C. *****
0058 C. DR PT2 Āİ¼ı°ÆĀ
0059 C. *****
0060 C. ¨ ¨ RESTARTjĒPT2jĒ¤•¤¿¤¤¤¼ı¹Ç¤İj¢°Ē²¼¤İ¼Āı¹Ŏ¤»¤°j¢DCBC-151¤Ŏ¿Ēē¤¤j£
0061 C.
0062 . C. jãPT2°ÆĀ, ³«»İjã
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 (¼Āı¹Ŏ, j¼Ú)
0069 C. ¢¢[HK1_REP_STA/STP] EQ START (¼Āı¹Ŏ, j¼Ú)
0070 C. ¢¢[HK1_X_VC4_ON/OFF] EQ ON (¼Āı¹Ŏ, j¼Ú)
0071 C.
0072 . C. jã¥¢¥Ó¥Æ¥ĒĀŬĀŎjĒĀ•Ā°²ŎĒŎjĒ, Ā¤İ°ÆĀ, °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 (¼Āı¹Ŏ, j¼Ú)
0076 C. ¢¢[HK1_REP_STA/STP] EQ START (¼Āı¹Ŏ, j¼Ú)
0077 C. ¢¢[HK1_X_VC4_ON/OFF] EQ ON (¼Āı¹Ŏ, j¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ÆĀ, Ā¤»İjÇXÁ÷¿®µjOFF
0081 C. *****
0082 C.
0083 . C. jãDR°ÆĀ, Ā¤»İjã
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. jãXÁ÷¿®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
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[illegible]

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0194 C.
0195 +. TI 2018-03-20 11:29:59.5
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. ¥Ä¥0¥×½ªİ»☐ò³İÇ§
0226 C.                                ☐☐[HK1_DMP_CHK_FLG]            EQ      NON
0227 C.
0228 C. RAM ID=TI_TBL☐İ¼Ê¹Ç•ë²İOK☐ò³İÇ§
0229 C.
0230 C. DHU¥â;¼¥Ê;Ē¼Ÿ½, ¥İ;¼¥Ê;Ē☐òİá☐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. ***** XRT START *****
0240 C. Execute, after the success of OP upload.
0241 +. TI 2018-03-20 11:29:00.0
0242 DC 07-F0 MDP_XRT_MODE_STBY
0243 BC      (c3)
0244 C.                                [    ] [HK1_TI_CMD_NUM]            EQ      1COUNTUP
0245 C.
0246 C. ***** XRT END *****
0247 C.
0248 C. ***** MDP ´ÜÄİ☐İ»Ö¼Ÿ☐ĒÄ☐¹☐ēDCBC•×²è *****
0249 C. (¼ä°İ¥0¥Ä¥Ē¥P¥Ē¥Ä¥Ç¥ē☐Ē¼☐¼Ä»Ü☐¹ē)
0250 S. DC-BC dcbc-402:DCBC
0251 (MDP_known_event)
0252 C.
0253 C.
0254 C. ***** ¥0¥¹•İ Daily±¼İÑ☐Ē´0☐¹☐ēDCBC•×²è *****
0255 S. DC-BC dcbc-153:DCBC
0256 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0257 C.
0258 C.
0259 C. ;ăLOS¥Á¥S¥Ä¥¹¼Ä»Ü;ă
0260 C.
0261 C. ***** LOS *****
0262 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 SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 C.
0129 . C. ***** AOCS Commands (Orbital Element Update) *****
0130 C. Update the orbital element
0131 +. DC 02-50 AOCU_ORB_PRPGT_START
0132 BC (16)
0133 +. DC 02-8E AOCU_ORB_UPD
0134 C.
0135 C. <A_ORB>[ORBIT] EPC = 1453116.0 +- 1.0 (s) [ ]
0136 C.
0137 . C.
0138 C.
0139 . C. ***** MDP `0ÃÎ«Ö%Y«ÊÂð¹«èDCBC•x²è *****
0140 C. (%ã°ï¥0¥Ã¥Ê¥ð¥Ê¥ã¥ç¥è«E½¼«¼Ã»Ü¹«è)
0141 . S. DC-BC dcbc-402:DCBC
0142 (MDP_known_event)
0143 C.
0144 C.
0145 . C. ***** ¥ð¥¹•Ï Daily±¿ÎÑ«Ë´0¹«èDCBC•x²è *****
0146 . S. DC-BC dcbc-153:DCBC
0147 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0148 C.
0149 C.
0150 . C. ¡ãLOS¥Á¥S¥Ã¥¬¼Ã»Ü¡ä
0151 C.
0152 . C. ***** LOS *****
0153 C.

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(a) Spacecraft Operation Procedure (real-commands)

```
main-251 2018-03-20 13:36:17 104 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. ĀiĒ□¿□Å□•μ°£»İ×AÇ□İ¥Ç¥A¥×¥ıj¼¥ÉjĒĒēμ•īĒjĒē¼°Ç□□•□¿¼ı¹Ç□İjÇÀ®, ũ□¹□ē□□□ÇÁ÷¿®□•□Ē□□□³□Ēj£
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_CTRL_MANU
0020 BC (c1)
0021 +. DC 07-F0 MDP_XRT_MODE_STBY
0022 BC (c3)
0023 . C. ----- Success Verify ? OK / NG____
0024 C.
0025 C. XRT Obs. Table Upload
0026 . S. RAM ram-291:MDP_OBS_X
0027 ( )
0028 C.
0029 +. DC 07-F0 MDP_DUMP_XRTTBL
0030 BC (84 07 00 00 00 3a d4)
0031 . C. ----- Comparison Check ? OK / ERR ____
0032 C.
0033 C.
0034 +. DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 01 b1 b1 04 04)
0036 +. DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 02 b1 b1 08 08)
0038 +. DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 03 b1 b1 08 08)
0040 +. DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 04 b1 b1 06 06)
0042 +. DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 05 85 83 06 06)
0044 +. DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 06 85 83 06 06)
0046 +. DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 07 85 83 08 08)
0048 +. DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 08 80 80 20 20)
0050 +. DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 09 80 80 20 08)
0052 +. DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0a 80 80 08 20)
0054 +. DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0b 80 80 08 08)
0056 +. DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 0c 85 83 0c 0c)
0058 +. DC 07-F0 MDP_XRT_ROI_SET
0059 BC (cd 0f 80 80 06 06)
0060 +. DC 07-F0 MDP_XRT_ROI_SET
0061 BC (cd 10 80 80 08 08)
0062 +. DC 07-F0 MDP_XRT_FLD_ENA
0063 BC (d8)
0064 +. DC 07-F0 MDP_XRT_FLRCTRL_ENA
0065 BC (c8)
0066 +. DC 07-F0 MDP_XRT_ARS_DIS
0067 BC (d5)
0068 +. DC 07-F0 MDP_XRT_AEC_RESET
0069 BC (d0)
0070 +. DC 07-F0 MDP_XRT_FLD_RESET
0071 BC (da)
0072 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0073 BC (c4 06)
0074 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0075 BC (c5 0d)
0076 . C. ----- Success Verify ? OK / NG ____
0077 C.
0078 C.
0079 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0080 C.
0081 +. DC 07-F0 MDP_XRT_MODE_OBSV
0082 BC (c2)
0083 +. TI 2018-03-20 11:29:02.0
0084 DC 07-F0 MDP_XRT_MODE_OBSV
0085 BC (c2)
0086 . C. ----- Success Verify ? OK / NG ____
0087 C.
0088 C. ***** XRT END *****
0089 C.
0090 . C. ***** MDP `ŮĀİ□İ»Ů%Y□ĒĀ□¹□ēDCBC•x²ē *****
0091 C. (%ā°İ¥Ů¥Ā¥Ē¥D¥Ē¥Ā¥Ç¥Ēē¼¼□□A»Ů□¹□ē)
0092 . S. DC-BC dcbc-402:DCBC
0093 (MDP_known_event)
0094 C.
0095 C.
```

0096 . C. ***** ¥Ð¥¹•İ Daily±¿İÑ¤Ě´Ø¤¹¤ĚDCBC•x²è *****
0097 . S. DC-BC dcbc-153:DCBC
0098 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0099 C.
0100 C.
0101 . C. ĩăLOS¥Á¥S¥Ā¥¼Ā»Üĭă
0102 C.
0103 . C. ***** LOS *****
0104 C.

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*** OP Sequence for XRT ***

2018/03/20	11:39:54.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	11:39:56.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	11:39:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]		
		XRT_FOCUS_POSITION	4	07-F8 22 fe 97 00
2018/03/20	11:40:00.0	AOCS_Ore-point_Start_1_OG [0x097]		
		AOCU_NM	5	02-76 00 e5 27 b3 1b
2018/03/20	11:40:18.0	XRT_FLD_ENA_411_OG [0x19b]		
		MDP_XRT_FLD_ENA	1	07-F0 d8
2018/03/20	11:40:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]		
		MDP_XRT_FLRCTRL_ENA	1	07-F0 c8
2018/03/20	11:40:22.0	XRT_AEC_RESET_448_OG [0x1c0]		
		MDP_XRT_AEC_RESET	1	07-F0 d0
2018/03/20	11:40:24.0	XRT_ARS_DIS_423_OG [0x1a7]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2018/03/20	11:40:26.0	XRT_FLD_RESET_433_OG [0x1b1]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/20	11:42:56.0	XRT_QT_PROG_SET_444_OG [0x1bc]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 13
2018/03/20	11:42:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]		
		MDP_XRT_FL_PROG_SET	2	07-F0 c5 0d
2018/03/20	11:43:00.0	XRT_CTRL_AUTO_408_OG [0x198]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/20	14:27:30.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	14:27:32.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	14:27:34.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/20	14:27:36.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/20	14:29:00.0	XRT_Custom_430_OG [0x1ae]		
2018/03/20	14:30:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/20	14:30:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/20	15:58:00.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	15:58:02.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	15:58:04.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/20	15:58:06.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/20	16:01:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/20	16:21:00.0	XRT_Custom_430_OG [0x1ae]		
2018/03/20	16:22:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/20	17:34:00.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	17:34:02.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	17:34:04.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/20	17:34:06.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/20	17:37:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/20	17:59:24.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	17:59:26.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	17:59:28.0	XRT_FOCUS_POSITION_403_OG [0x193]		
		XRT_FOCUS_POSITION	4	07-F8 22 ff aa 00
2018/03/20	17:59:30.0	AOCS_Ore-point_Start_2_OG [0x098]		
		AOCU_NM	5	02-76 00 00 00 00 00
2018/03/20	17:59:48.0	XRT_FLD_DIS_425_OG [0x1a9]		
		MDP_XRT_FLD_DIS	1	07-F0 d9
2018/03/20	18:02:24.0	XRT_FLRCTRL_DIS_405_OG [0x195]		
		MDP_XRT_FLRCTRL_DIS	1	07-F0 c9
2018/03/20	18:02:26.0	XRT_ARS_DIS_423_OG [0x1a7]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2018/03/20	18:02:28.0	XRT_QT_PROG_SET_443_OG [0x1bb]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 08
2018/03/20	18:02:30.0	XRT_CTRL_AUTO_408_OG [0x198]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/20	18:09:30.0	AOCS_Ore-point_Start_1_OG [0x097]		
		AOCU_NM	5	02-76 00 e5 27 b3 1b
2018/03/20	19:11:00.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	19:11:02.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/20	19:11:04.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/20	19:11:06.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/20	19:14:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/20	19:34:30.0	XRT_CTRL_MANU_402_OG [0x192]		

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2018/03/20	19:34:32.0	XRT_CTRL_MANU_402_0G [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/20	19:34:34.0	XRT_FOCUS_POSITION_410_0G [0x19a]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/20	19:34:54.0	XRT_FLD_ENA_411_0G [0x19b]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2018/03/20	19:34:56.0	XRT_FLRCTRL_ENA_412_0G [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8
2018/03/20	19:34:58.0	XRT_AEC_RESET_448_0G [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2018/03/20	19:35:00.0	XRT_ARS_DIS_423_0G [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0
2018/03/20	19:35:02.0	XRT_FLD_RESET_433_0G [0x1b1]	MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/20	19:37:32.0	XRT_QT_PROG_SET_401_0G [0x191]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/20	19:37:34.0	XRT_FL_PROG_SET_440_0G [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 04
2018/03/20	19:37:36.0	XRT_CTRL_AUTO_408_0G [0x198]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2018/03/20	20:48:00.0	XRT_CTRL_MANU_400_0G [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/20	20:48:02.0	XRT_CTRL_MANU_402_0G [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/20	20:48:04.0	XRT_FLD_RESET_415_0G [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/20	20:48:06.0	XRT_PREFLR_STRT_406_0G [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/20	20:51:14.0	XRT_PREFLR_STOP_419_0G [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/20	21:12:00.0	XRT_Custom_430_0G [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/20	21:13:00.0	XRT_CTRL_AUTO_424_0G [0x1a8]	XRT_Custom_430_0G [0x1ae]			
2018/03/20	22:25:30.0	XRT_CTRL_MANU_400_0G [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/20	22:25:32.0	XRT_CTRL_MANU_402_0G [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/20	22:25:34.0	XRT_FLD_RESET_415_0G [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/20	22:25:36.0	XRT_PREFLR_STRT_406_0G [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/20	22:28:44.0	XRT_PREFLR_STOP_419_0G [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/20	22:47:30.0	XRT_Custom_430_0G [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/20	22:48:30.0	XRT_CTRL_AUTO_424_0G [0x1a8]	XRT_Custom_430_0G [0x1ae]			
2018/03/21	00:03:00.0	XRT_CTRL_MANU_400_0G [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	00:03:02.0	XRT_CTRL_MANU_402_0G [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	00:03:04.0	XRT_FLD_RESET_415_0G [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	00:03:06.0	XRT_PREFLR_STRT_406_0G [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/21	00:06:14.0	XRT_PREFLR_STOP_419_0G [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/21	00:14:00.5	XRT_Custom_430_0G [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/21	00:15:00.5	XRT_CTRL_AUTO_424_0G [0x1a8]	XRT_Custom_430_0G [0x1ae]			
2018/03/21	01:29:30.0	XRT_CTRL_MANU_400_0G [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	01:29:32.0	XRT_CTRL_MANU_402_0G [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	01:29:34.0	XRT_FLD_RESET_415_0G [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	01:29:36.0	XRT_PREFLR_STRT_406_0G [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/21	01:32:44.0	XRT_PREFLR_STOP_419_0G [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/21	01:46:00.0	XRT_Custom_430_0G [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/21	01:47:00.0	XRT_CTRL_AUTO_424_0G [0x1a8]	XRT_Custom_430_0G [0x1ae]			
2018/03/21	03:01:30.0	XRT_CTRL_MANU_400_0G [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	03:01:32.0	XRT_CTRL_MANU_402_0G [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	03:01:34.0	XRT_FLD_RESET_415_0G [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	03:01:36.0	XRT_PREFLR_STRT_406_0G [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/21	03:04:44.0	XRT_PREFLR_STOP_419_0G [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/21	03:22:30.0	XRT_Custom_430_0G [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/21	03:23:30.0	XRT_CTRL_AUTO_424_0G [0x1a8]	XRT_Custom_430_0G [0x1ae]			
2018/03/21	04:30:30.0	XRT_CTRL_MANU_400_0G [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	04:30:32.0	XRT_CTRL_MANU_402_0G [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	04:30:34.0	XRT_FLD_RESET_415_0G [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	04:30:36.0	XRT_PREFLR_STRT_406_0G [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da

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2018/03/21	04:33:44.0	MDP_XRT_PREFLR_STRT	1	07-F0	e8
		XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/21	04:59:30.0	XRT_Custom_430_OG [0x1ae]			
2018/03/21	05:00:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	05:43:24.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	05:43:26.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	05:43:28.0	XRT_FOCUS_POSITION_403_OG [0x193]			
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/03/21	05:43:30.0	AOCS_ORe-point_Start_2_OG [0x098]			
		AOCU_NM	5	02-76	00 00 00 00 00
2018/03/21	05:43:48.0	XRT_FLD_DIS_425_OG [0x1a9]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2018/03/21	05:46:24.0	XRT_FLRCTRL_DIS_405_OG [0x195]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2018/03/21	05:46:26.0	XRT_ARS_DIS_423_OG [0x1a7]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/21	05:46:28.0	XRT_QT_PROG_SET_443_OG [0x1bb]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 08
2018/03/21	05:46:30.0	XRT_CTRL_AUTO_408_OG [0x198]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	05:53:24.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	05:53:26.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	05:53:28.0	XRT_FOCUS_POSITION_403_OG [0x193]			
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/03/21	05:53:30.0	AOCS_ORe-point_Start_2_OG [0x098]			
		AOCU_NM	5	02-76	00 00 00 00 00
2018/03/21	05:53:48.0	XRT_FLD_ENA_411_OG [0x19b]			
		MDP_XRT_FLD_ENA	1	07-F0	d8
2018/03/21	05:53:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]			
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2018/03/21	05:53:52.0	XRT_AEC_RESET_448_OG [0x1c0]			
		MDP_XRT_AEC_RESET	1	07-F0	d0
2018/03/21	05:53:54.0	XRT_ARS_DIS_423_OG [0x1a7]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/21	05:53:56.0	XRT_FLD_RESET_433_OG [0x1b1]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/21	05:56:26.0	XRT_QT_PROG_SET_417_OG [0x1a1]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 09
2018/03/21	05:56:28.0	XRT_FL_PROG_SET_440_OG [0x1b8]			
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2018/03/21	05:56:30.0	XRT_CTRL_AUTO_408_OG [0x198]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	06:10:30.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	06:10:32.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	06:10:34.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/21	06:10:36.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/21	06:13:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/21	06:37:00.5	XRT_Custom_430_OG [0x1ae]			
2018/03/21	06:38:00.5	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	07:51:00.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	07:51:02.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	07:51:04.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/21	07:51:06.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/21	07:54:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/21	08:14:00.0	XRT_Custom_430_OG [0x1ae]			
2018/03/21	08:15:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/21	09:30:30.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	09:30:32.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	09:30:34.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/21	09:30:36.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/21	09:33:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/21	09:48:30.0	AOCS_ORe-point_Start_3_OG [0x099]			
		AOCU_NM	5	02-76	00 54 8b 01 ca
2018/03/21	09:49:31.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	09:49:33.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/21	09:49:35.0	XRT_FOCUS_POSITION_410_OG [0x19a]			
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2018/03/21	09:49:55.0	XRT_FLD_ENA_411_OG [0x19b]			

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2018/03/21	09:49:57.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8	
			MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2018/03/21	09:49:59.0	XRT_AEC_RESET_448_OG [0x1c0]					
			MDP_XRT_AEC_RESET	1	07-F0	d0	
2018/03/21	09:50:01.0	XRT_ARS_DIS_423_OG [0x1a7]					
			MDP_XRT_ARS_DIS	1	07-F0	d5	
2018/03/21	09:50:03.0	XRT_FLD_RESET_433_OG [0x1b1]					
			MDP_XRT_FLD_RESET	1	07-F0	da	
2018/03/21	09:52:33.0	XRT_QT_PROG_SET_437_OG [0x1b5]					
			MDP_XRT_QT_PROG_SET	2	07-F0	c4	02
2018/03/21	09:52:35.0	XRT_FL_PROG_SET_440_OG [0x1b8]					
			MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d
2018/03/21	09:52:37.0	XRT_CTRL_AUTO_408_OG [0x198]					
			MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2018/03/21	11:13:30.0	XRT_CTRL_MANU_400_OG [0x190]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	11:13:32.0	XRT_CTRL_MANU_402_OG [0x192]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	11:13:34.0	XRT_FLD_RESET_415_OG [0x19f]					
			MDP_XRT_FLD_RESET	1	07-F0	da	
2018/03/21	11:13:36.0	XRT_PREFLR_STRT_406_OG [0x196]					
			MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2018/03/21	11:14:30.0	XRT_Custom_430_OG [0x1ae]					
2018/03/21	11:15:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]					
			MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2018/03/21	11:16:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]					
			MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2018/03/21	14:58:00.0	XRT_CTRL_MANU_400_OG [0x190]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	14:58:02.0	XRT_CTRL_MANU_402_OG [0x192]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	14:58:04.0	XRT_FLD_RESET_415_OG [0x19f]					
			MDP_XRT_FLD_RESET	1	07-F0	da	
2018/03/21	14:58:06.0	XRT_PREFLR_STRT_406_OG [0x196]					
			MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2018/03/21	15:01:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]					
			MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2018/03/21	15:08:30.0	XRT_Custom_430_OG [0x1ae]					
2018/03/21	15:09:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]					
			MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2018/03/21	15:48:24.0	XRT_CTRL_MANU_402_OG [0x192]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	15:48:26.0	XRT_CTRL_MANU_402_OG [0x192]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	15:48:28.0	XRT_FOCUS_POSITION_403_OG [0x193]					
			XRT_FOCUS_POSITION	4	07-F8	22	ff aa 00
2018/03/21	15:48:30.0	AOCS_Ore-point_Start_2_OG [0x098]					
			AOCU_NM	5	02-76	00	00 00 00 00
2018/03/21	15:48:48.0	XRT_FLD_DIS_425_OG [0x1a9]					
			MDP_XRT_FLD_DIS	1	07-F0	d9	
2018/03/21	15:51:24.0	XRT_FLRCTRL_DIS_405_OG [0x195]					
			MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2018/03/21	15:51:26.0	XRT_ARS_DIS_423_OG [0x1a7]					
			MDP_XRT_ARS_DIS	1	07-F0	d5	
2018/03/21	15:51:28.0	XRT_QT_PROG_SET_443_OG [0x1bb]					
			MDP_XRT_QT_PROG_SET	2	07-F0	c4	08
2018/03/21	15:51:30.0	XRT_CTRL_AUTO_408_OG [0x198]					
			MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2018/03/21	15:58:24.0	XRT_CTRL_MANU_402_OG [0x192]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	15:58:26.0	XRT_CTRL_MANU_402_OG [0x192]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	15:58:28.0	XRT_FOCUS_POSITION_403_OG [0x193]					
			XRT_FOCUS_POSITION	4	07-F8	22	ff aa 00
2018/03/21	15:58:30.0	AOCS_Ore-point_Start_4_OG [0x09a]					
			AOCU_NM	5	02-76	01	02 c0 01 ca
2018/03/21	15:58:48.0	XRT_FLD_ENA_411_OG [0x19b]					
			MDP_XRT_FLD_ENA	1	07-F0	d8	
2018/03/21	15:58:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]					
			MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2018/03/21	15:58:52.0	XRT_AEC_RESET_448_OG [0x1c0]					
			MDP_XRT_AEC_RESET	1	07-F0	d0	
2018/03/21	15:58:54.0	XRT_ARS_DIS_423_OG [0x1a7]					
			MDP_XRT_ARS_DIS	1	07-F0	d5	
2018/03/21	15:58:56.0	XRT_FLD_RESET_433_OG [0x1b1]					
			MDP_XRT_FLD_RESET	1	07-F0	da	
2018/03/21	16:01:26.0	XRT_QT_PROG_SET_404_OG [0x194]					
			MDP_XRT_QT_PROG_SET	2	07-F0	c4	0f
2018/03/21	16:01:28.0	XRT_FL_PROG_SET_440_OG [0x1b8]					
			MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d
2018/03/21	16:01:30.0	XRT_CTRL_AUTO_408_OG [0x198]					
			MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2018/03/21	16:32:30.0	XRT_CTRL_MANU_400_OG [0x190]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	16:32:32.0	XRT_CTRL_MANU_402_OG [0x192]					
			MDP_XRT_CTRL_MANU	1	07-F0	c1	
2018/03/21	16:32:34.0	XRT_FLD_RESET_415_OG [0x19f]					
			MDP_XRT_FLD_RESET	1	07-F0	da	
2018/03/21	16:32:36.0	XRT_PREFLR_STRT_406_OG [0x196]					
			MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2018/03/21	16:35:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]					
			MDP_XRT_PREFLR_STOP	1	07-F0	e9	

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2018/03/21	16:56:00.0	XRT_Custom_430_OG [0x1ae]		
2018/03/21	16:57:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/21	17:39:54.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	17:39:56.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	17:39:58.0	XRT_FOCUS_POSITION_403_OG [0x193]		
		XRT_FOCUS_POSITION	4	07-F8 22 ff aa 00
2018/03/21	17:40:00.0	AOCS_0Re-point_Start_5_OG [0x09b]		
		AOCU_NM	5	02-76 04 00 00 00 00
2018/03/21	17:40:18.0	XRT_FLD_ENA_411_OG [0x19b]		
		MDP_XRT_FLD_ENA	1	07-F0 d8
2018/03/21	17:40:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]		
		MDP_XRT_FLRCTRL_ENA	1	07-F0 c8
2018/03/21	17:40:22.0	XRT_AEC_RESET_448_OG [0x1c0]		
		MDP_XRT_AEC_RESET	1	07-F0 d0
2018/03/21	17:40:24.0	XRT_ARS_DIS_423_OG [0x1a7]		
		MDP_XRT_ARS_DIS	1	07-F0 d5
2018/03/21	17:40:26.0	XRT_FLD_RESET_433_OG [0x1b1]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/21	17:42:56.0	XRT_QT_PROG_SET_435_OG [0x1b3]		
		MDP_XRT_QT_PROG_SET	2	07-F0 c4 01
2018/03/21	17:42:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]		
		MDP_XRT_FL_PROG_SET	2	07-F0 c5 0d
2018/03/21	17:43:00.0	XRT_CTRL_AUTO_408_OG [0x198]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/21	18:09:00.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	18:09:02.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	18:09:04.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/21	18:09:06.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/21	18:12:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/21	18:32:30.0	XRT_Custom_430_OG [0x1ae]		
2018/03/21	18:33:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/21	19:46:00.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	19:46:02.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	19:46:04.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/21	19:46:06.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/21	19:49:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/21	20:09:30.0	XRT_Custom_430_OG [0x1ae]		
2018/03/21	20:10:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/21	21:23:30.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	21:23:32.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	21:23:34.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/21	21:23:36.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/21	21:26:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/21	21:46:30.0	XRT_Custom_430_OG [0x1ae]		
2018/03/21	21:47:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/21	23:00:30.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	23:00:32.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/21	23:00:34.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/21	23:00:36.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/21	23:03:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/21	23:21:30.0	XRT_Custom_430_OG [0x1ae]		
2018/03/21	23:22:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/22	00:38:00.0	XRT_CTRL_MANU_400_OG [0x190]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/22	00:38:02.0	XRT_CTRL_MANU_402_OG [0x192]		
		MDP_XRT_CTRL_MANU	1	07-F0 c1
2018/03/22	00:38:04.0	XRT_FLD_RESET_415_OG [0x19f]		
		MDP_XRT_FLD_RESET	1	07-F0 da
2018/03/22	00:38:06.0	XRT_PREFLR_STRT_406_OG [0x196]		
		MDP_XRT_PREFLR_STRT	1	07-F0 e8
2018/03/22	00:41:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]		
		MDP_XRT_PREFLR_STOP	1	07-F0 e9
2018/03/22	00:45:30.0	XRT_Custom_430_OG [0x1ae]		
2018/03/22	00:46:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]		
		MDP_XRT_CTRL_AUTO	1	07-F0 c0
2018/03/22	02:01:30.0	XRT_CTRL_MANU_400_OG [0x190]		

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2018/03/22	02:01:32.0	MDP_XRT_CTRL_MANU	1	07-F0	c1
		XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	02:01:34.0	XRT_FLD_RESET_415_0G [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	02:01:36.0	XRT_PREFLR_STRT_406_0G [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/22	02:04:44.0	XRT_PREFLR_STOP_419_0G [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/22	02:20:30.0	XRT_Custom_430_0G [0x1ae]			
2018/03/22	02:21:30.0	XRT_CTRL_AUTO_424_0G [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	03:36:30.0	XRT_CTRL_MANU_400_0G [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	03:36:32.0	XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	03:36:34.0	XRT_FLD_RESET_415_0G [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	03:36:36.0	XRT_PREFLR_STRT_406_0G [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/22	03:39:44.0	XRT_PREFLR_STOP_419_0G [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/22	03:57:30.0	XRT_Custom_430_0G [0x1ae]			
2018/03/22	03:58:30.0	XRT_CTRL_AUTO_424_0G [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	05:06:30.0	XRT_CTRL_MANU_400_0G [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	05:06:32.0	XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	05:06:34.0	XRT_FLD_RESET_415_0G [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	05:06:36.0	XRT_PREFLR_STRT_406_0G [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/22	05:09:44.0	XRT_PREFLR_STOP_419_0G [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/22	05:34:30.0	XRT_Custom_430_0G [0x1ae]			
2018/03/22	05:35:30.0	XRT_CTRL_AUTO_424_0G [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	05:59:54.0	XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	05:59:56.0	XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	05:59:58.0	XRT_FOCUS_POSITION_403_0G [0x193]			
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/03/22	06:00:00.0	AOCS_Ore-point_Start_2_0G [0x098]			
		AOCU_NM	5	02-76	00 00 00 00 00
2018/03/22	06:00:18.0	XRT_FLD_DIS_425_0G [0x1a9]			
		MDP_XRT_FLD_DIS	1	07-F0	d9
2018/03/22	06:02:54.0	XRT_FLRCTRL_DIS_405_0G [0x195]			
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2018/03/22	06:02:56.0	XRT_ARS_DIS_423_0G [0x1a7]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/22	06:02:58.0	XRT_QT_PROG_SET_443_0G [0x1bb]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 08
2018/03/22	06:03:00.0	XRT_CTRL_AUTO_408_0G [0x198]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	06:09:54.0	XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	06:09:56.0	XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	06:09:58.0	XRT_FOCUS_POSITION_403_0G [0x193]			
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/03/22	06:10:00.0	AOCS_Ore-point_Start_2_0G [0x098]			
		AOCU_NM	5	02-76	00 00 00 00 00
2018/03/22	06:10:18.0	XRT_FLD_ENA_411_0G [0x19b]			
		MDP_XRT_FLD_ENA	1	07-F0	d8
2018/03/22	06:10:20.0	XRT_FLRCTRL_ENA_412_0G [0x19c]			
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2018/03/22	06:10:22.0	XRT_AEC_RESET_448_0G [0x1c0]			
		MDP_XRT_AEC_RESET	1	07-F0	d0
2018/03/22	06:10:24.0	XRT_ARS_DIS_423_0G [0x1a7]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/22	06:10:26.0	XRT_FLD_RESET_433_0G [0x1b1]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	06:12:56.0	XRT_QT_PROG_SET_417_0G [0x1a1]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 09
2018/03/22	06:12:58.0	XRT_FL_PROG_SET_440_0G [0x1b8]			
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2018/03/22	06:13:00.0	XRT_CTRL_AUTO_408_0G [0x198]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	06:46:30.0	XRT_CTRL_MANU_400_0G [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	06:46:32.0	XRT_CTRL_MANU_402_0G [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	06:46:34.0	XRT_FLD_RESET_415_0G [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	06:46:36.0	XRT_PREFLR_STRT_406_0G [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/22	06:49:44.0	XRT_PREFLR_STOP_419_0G [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/22	07:12:00.0	XRT_Custom_430_0G [0x1ae]			
2018/03/22	07:13:00.0	XRT_CTRL_AUTO_424_0G [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0

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2018/03/22	08:27:00.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	08:27:02.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	08:27:04.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	08:27:06.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/22	08:30:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/22	08:49:00.0	XRT_Custom_430_OG [0x1ae]			
2018/03/22	08:50:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	09:09:54.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	09:09:56.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	09:09:58.0	XRT_FOCUS_POSITION_403_OG [0x193]			
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/03/22	09:10:00.0	AOCS_ORe-point_Start_5_OG [0x09b]			
		AOCU_NM	5	02-76	04 00 00 00 00
2018/03/22	09:10:18.0	XRT_FLD_ENA_411_OG [0x19b]			
		MDP_XRT_FLD_ENA	1	07-F0	d8
2018/03/22	09:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]			
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2018/03/22	09:10:22.0	XRT_AEC_RESET_448_OG [0x1c0]			
		MDP_XRT_AEC_RESET	1	07-F0	d0
2018/03/22	09:10:24.0	XRT_ARS_DIS_423_OG [0x1a7]			
		MDP_XRT_ARS_DIS	1	07-F0	d5
2018/03/22	09:10:26.0	XRT_FLD_RESET_433_OG [0x1b1]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	09:12:56.0	XRT_QT_PROG_SET_435_OG [0x1b3]			
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 01
2018/03/22	09:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]			
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2018/03/22	09:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	10:07:00.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	10:07:02.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	10:07:04.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/03/22	10:07:06.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/03/22	10:10:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/03/22	10:22:30.0	XRT_Custom_430_OG [0x1ae]			
2018/03/22	10:23:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/03/22	10:52:40.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/03/22	11:13:00.5	AOCS_ORe-point_Start_2_OG [0x098]			
		AOCU_NM	5	02-76	00 00 00 00 00