

XRT Timeline to be uploaded on 2025/03/15

Period: 2025/03/15 11:05:00 - 2025/03/20 11:03:00

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Normal mode

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XOB #1D0D: HOP476_SOOP_AR_Be_Thin - (Med-Be) - Med-Be (Al-Thick) - AEC3 - PFB - Be-Thick- Be-Med 384X384 - AEC3															
Term			Pointing (x, y)					Comment							
03/15 11:18:00 - 03/15 18:01:54			Track (-739.8, -258.9) @ 03/15 11:15:00					# OP start + 10min + HOP500							
03/15 18:15:00 - 03/15 21:58:30			Track (-700.2, -253.2) @ 03/15 18:12:00					HOP500 (until 21:05) + AR 14028 obs							
PROG= 19															
Inf.-time(s)															
Subr= 1		1-time(s)		2.0sec											
Seqn= 92		1-time(s)		2.0sec											
Open/G-band		Open/G-band		open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)		DPCM	0	0	2.0sec
Open/G-band		Open/G-band		close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)		DPCM	0	0	2.0sec
Open/Ti-poly		Open/thick-Al		close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)		Q=98	0	0	2.0sec
Subr= 2		180-time(s)		2.0sec											
Seqn= 3		1-time(s)		2.0sec											
Open/thick-Be		Open/thick-Be		close	Safe	Norm	125ms	Obs	1x1	384x384 (1024, 1024)		DPCM	3	2	2.0sec
med-Be/Open		Open/thick-Al		close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)		DPCM	3	2	2.0sec
Seqn= 39		1-time(s)		2.0sec											
med-Be/Open		Open/thick-Al		close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)		DPCM	3	1	2.0sec
Open/thick-Be		Open/thick-Be		close	Safe	Norm	125ms	Obs	1x1	384x384 (1024, 1024)		DPCM	3	1	2.0sec
Seqn= 80		1-time(s)		2.0sec											
med-Be/Open		Open/thick-Al		close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)		DPCM	3	0	2.0sec
thin-Be/Open		med-Be/Open		close	Safe	Norm	8ms	Obs	1x1	384x384 (1024, 1024)		DPCM	3	0	2.0sec
Default Filter		Thicker Filter		VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)		Comp.	AEC Buffer	Interval	

XOB #1D19: Synoptic 8 Filter w/ Al-mesh(3/128/723), Al-poly(5/181/1443), Thin-Be(24/512/4096), Thick-Be(32768), Med-Al(181/5795/32768), Med-Be(88/4096/1443)													
Term		Pointing (x, y)		Comment									
03/15 18:05:00 - 03/15 18:11:54		Fixed (0.0, 0.0)		synoptic, shifted 2.0 min									
03/16 06:21:30 - 03/16 06:28:00		Fixed (0.0, 0.0)		synoptic									

PROG= 03														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= 55														1-time(s)										2.0sec																				
└ Open/Al-mesh														Open/Al-mesh										close										Safe	Norm	2ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ Open/Al-mesh														Open/Al-mesh										close										Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ Open/Al-mesh														Open/Al-mesh										close										Safe	Norm	707ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
Seqn= 98														1-time(s)										2.0sec																				
└ Al-poly/Open														Al-poly/Open										close										Safe	Norm	5ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ Al-poly/Open														Al-poly/Open										close										Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ Al-poly/Open														Al-poly/thick-Al										close										Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
Seqn= 76														1-time(s)										2.0sec																				
└ thin-Be/Open														thin-Be/Open										close										Safe	Norm	24ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ thin-Be/Open														thin-Be/Open										close										Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ thin-Be/Open														thin-Be/Open										close										Safe	Norm	4.00s	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										close										Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
Subr= 2														1-time(s)										2.0sec																				
Seqn= 41														1-time(s)										2.0sec																				
└ Open/thick-Be														Open/thick-Be										close										Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)		Q=98	0	0	2.0sec
Seqn= 18														1-time(s)										2.0sec																				
└ med-Al/Open														med-Al/thick-Al										close										Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ med-Al/Open														med-Al/Open										close										Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ med-Al/Open														med-Al/Open										close										Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
Seqn= 86														1-time(s)										2.0sec																				
└ med-Be/Open														Open/thick-Al										close										Safe	Norm	86ms	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ med-Be/Open														med-Be/Open										close										Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
└ med-Be/Open														med-Be/Open										close										Safe	Norm	22.6s	Obs	2x2	2048x2048 (1024, 1024)		Q=95	0	0	2.0sec
Seqn= 54														1-time(s)										2.0sec																				
└ Al-poly/Ti-poly														Al-poly/thick-Al										close										Safe	Norm	12ms	Obs	2x2	2048x2048 (1024, 1024)		Q=98	0	0	2.0sec
└ Al-poly/Ti-poly														Al-poly/thick-Al										close										Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)		Q=98	0	0	2.0sec
Default Filter														Thicker Filter										VLS										mode	image	Exp.	CCD	Bin	ROI: size (center)		Comp.	AEC Buffer	Interval	

XOB #1BFE: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with HOP500													
Term		Pointing (x, y)		Comment									
03/15 22:25:00 - 03/16 02:36:30		Track (-700.2, -253.2) @ 03/15 18:12:00		HOP500 (until 21:05) + AR 14028 obs									

PROG= 11 Inf.-time(s)														
└	Subr= 1	1-time(s)	2.0sec											
└	Seqn= 92	1-time(s)	2.0sec											
└	Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec	

	Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
Subr= 2 4-time(s) 2.0sec													
Seqn= 47 1-time(s) 2.0sec													
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Seqn= 77 4-time(s) 300.0sec													
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	0	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	0	95.0sec
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	1	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	1	95.0sec
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	2	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	2	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1CDF: HOP81/206 1-filter - Al/poly 6s, 60s cadence, G-band - 384x384 1ms															
Term			Pointing (x, y)							Comment					
03/16 02:56:00 - 03/16 06:18:24			Fixed (1.6, -947.9)							HOP499 (HOP206)					
PROG= 10 Inf.-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)		60.0sec									
└		Seqn= 24		1-time(s)		30.0sec									
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	5.66s	Obs	1x1	384x384 (1064, 1048)	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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XOB #1D27: HOP500_SOOP_FLARE_MODE_Be_Thick_2s_Fixed_Exposure														
Term			Pointing (x, y)						Comment					
03/15 11:18:00 - 03/15 18:01:54			Track (-739.8, -258.9) @ 03/15 11:15:00						# OP start + 10min + HOP500					
03/15 18:15:00 - 03/15 21:58:30			Track (-700.2, -253.2) @ 03/15 18:12:00						HOP500 (until 21:05) + AR 14028 obs					
03/15 22:25:00 - 03/16 02:36:30			Track (-700.2, -253.2) @ 03/15 18:12:00						HOP500 (until 21:05) + AR 14028 obs					
03/16 02:56:00 - 03/16 06:18:24			Fixed (1.6, -947.9)						HOP499 (HOP206)					
PROG= 15 30-time(s)														
└─ Subr= 1 1-time(s) 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														
└─ Subr= 2 120-time(s) 2.0sec														
└─┬─ Seqn= 31 1-time(s) 2.0sec														
└─┬─┬─ med-Be/Open Open/thick-Al close Safe Norm 16ms Obs 1x1 384x384 (1024, 1024) DPCM 3 0 2.0sec														
└─┬─ Seqn= 40 10-time(s) 2.0sec														
└─┬─┬─ Open/thick-Be Open/thick-Be close Safe Norm 2.00s Obs 1x1 384x384 (1024, 1024) DPCM 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

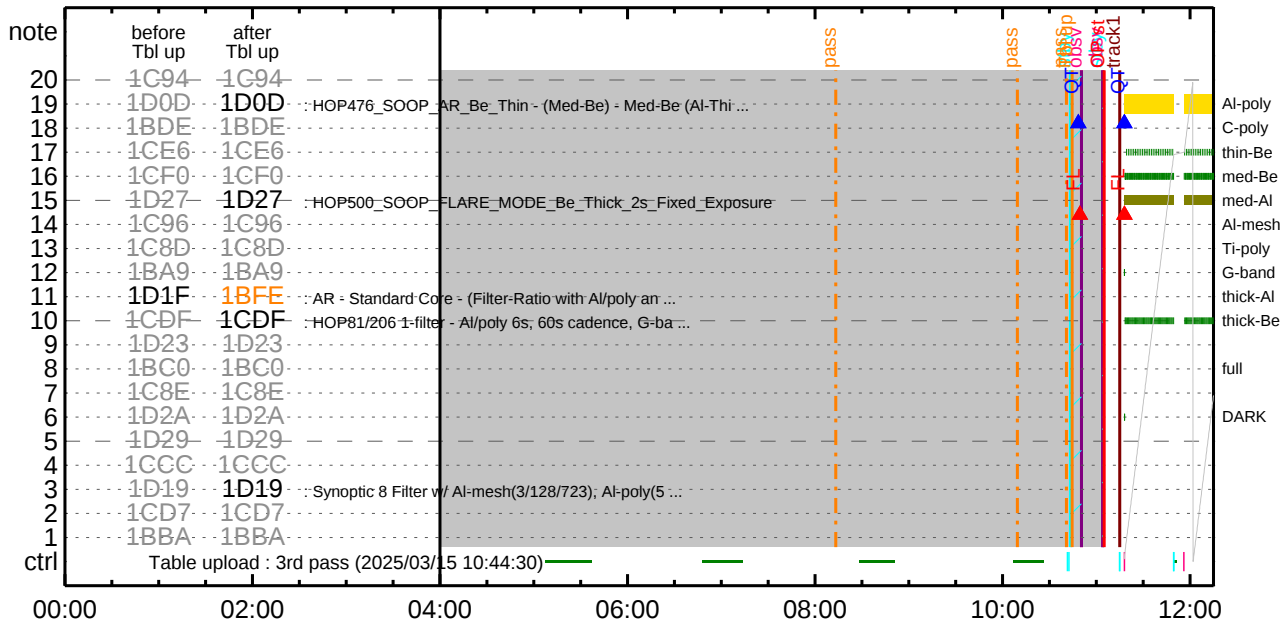
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Flare Detection

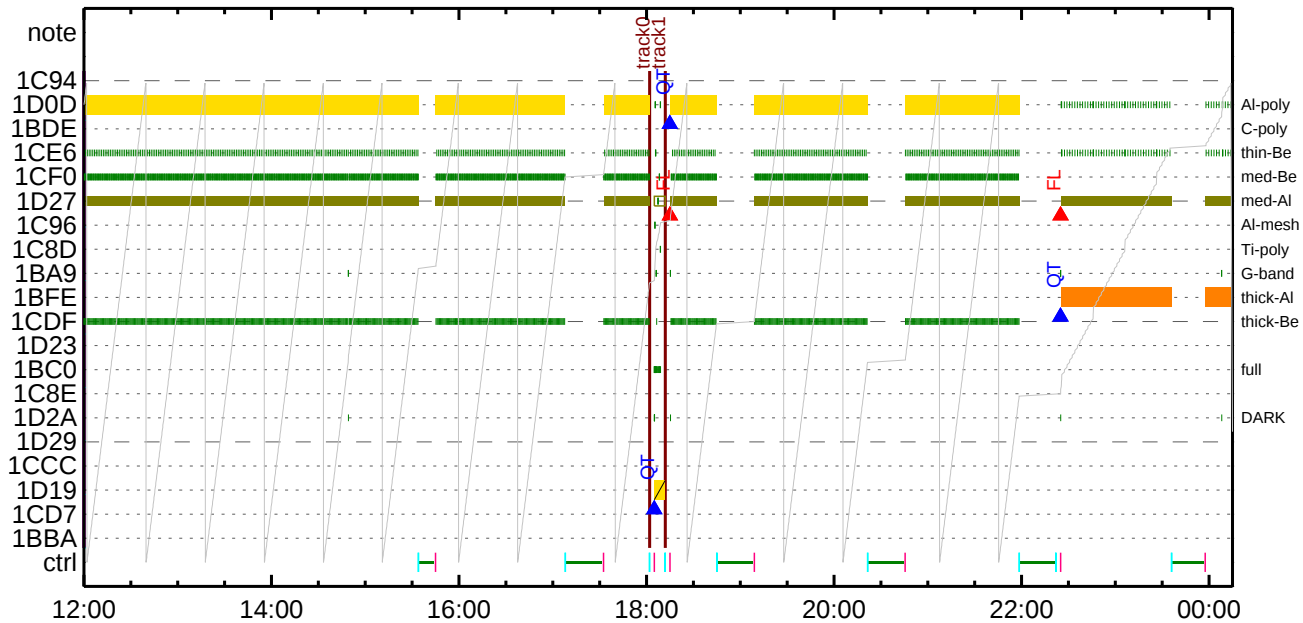
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FLD Patrol													
Term				Pointing (x, y)				Comment					
03/15 10:45:30 - 03/15 18:02:18				cannot be identified									
03/15 18:12:18 - 03/16 06:18:48				Track (-700.2, -253.2) @ 03/15 18:12:00				HOP500 (until 21:05) + AR 14028 obs					
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	4ms	Obs	8x8		Q=50		30sec	
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

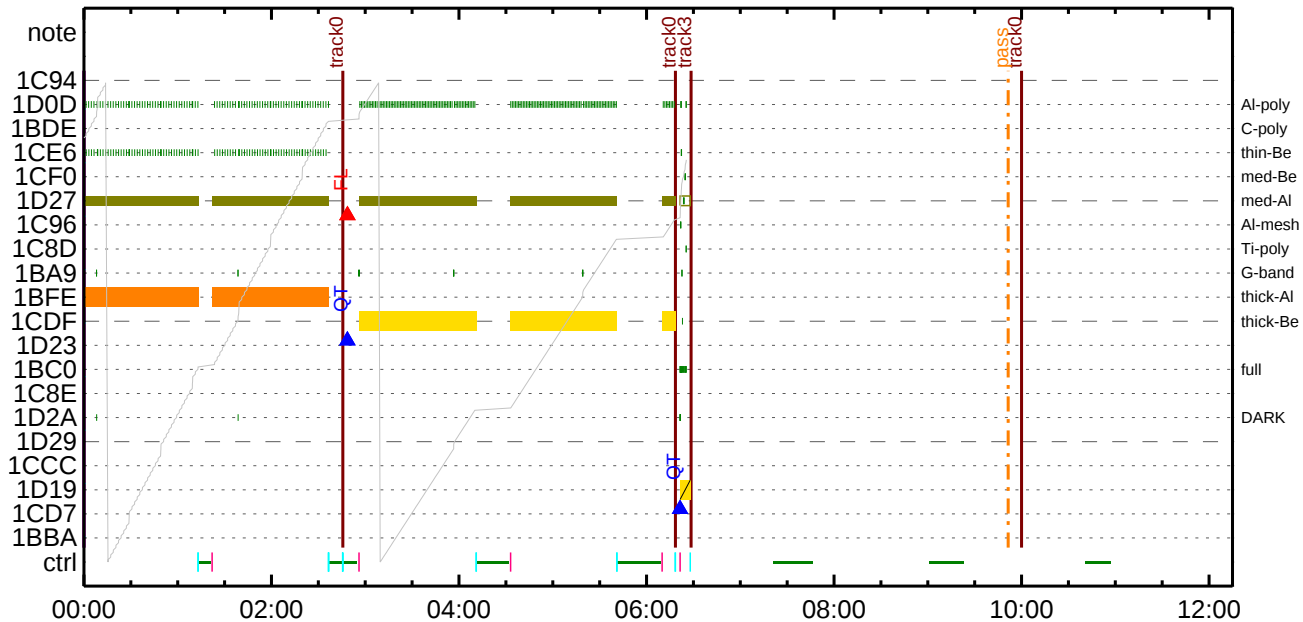
CMDI #0452 2025/03/15



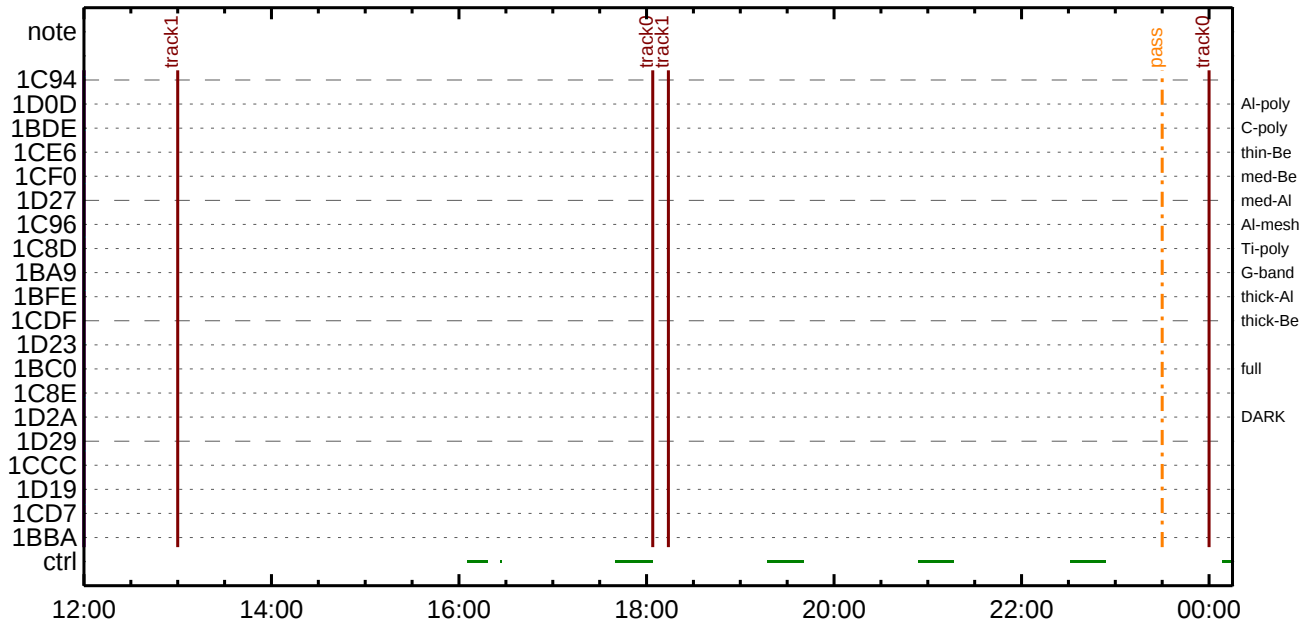
CMDI #0452 2025/03/15



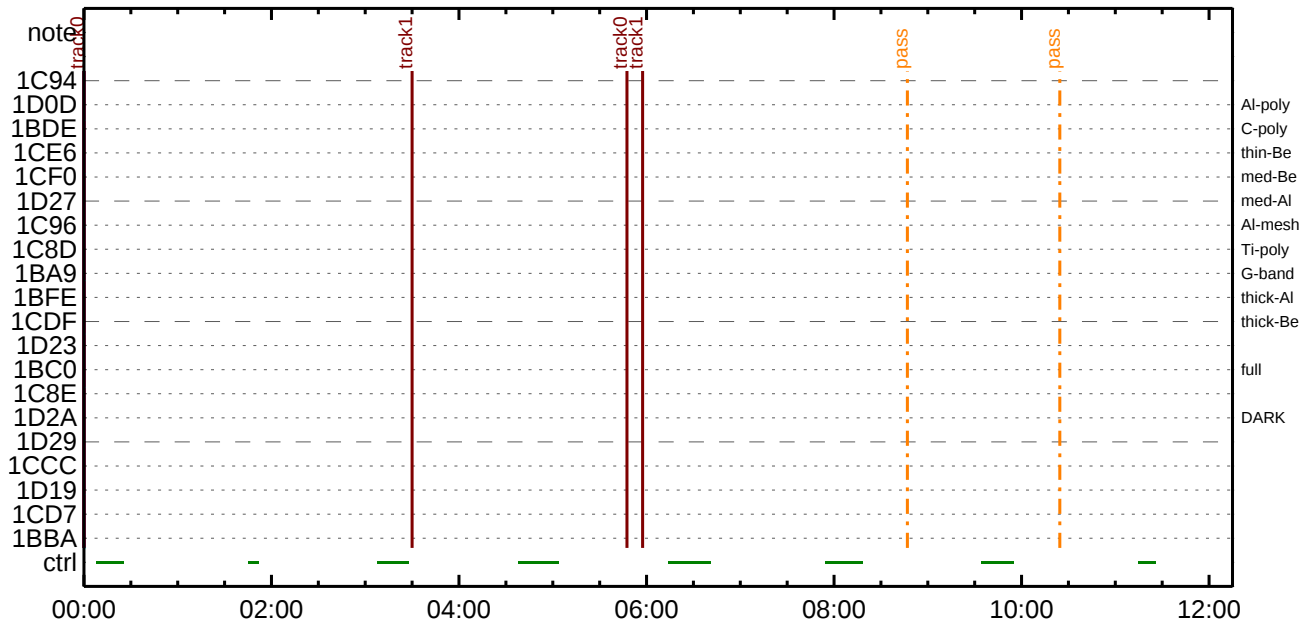
CMDI #0452 2025/03/16



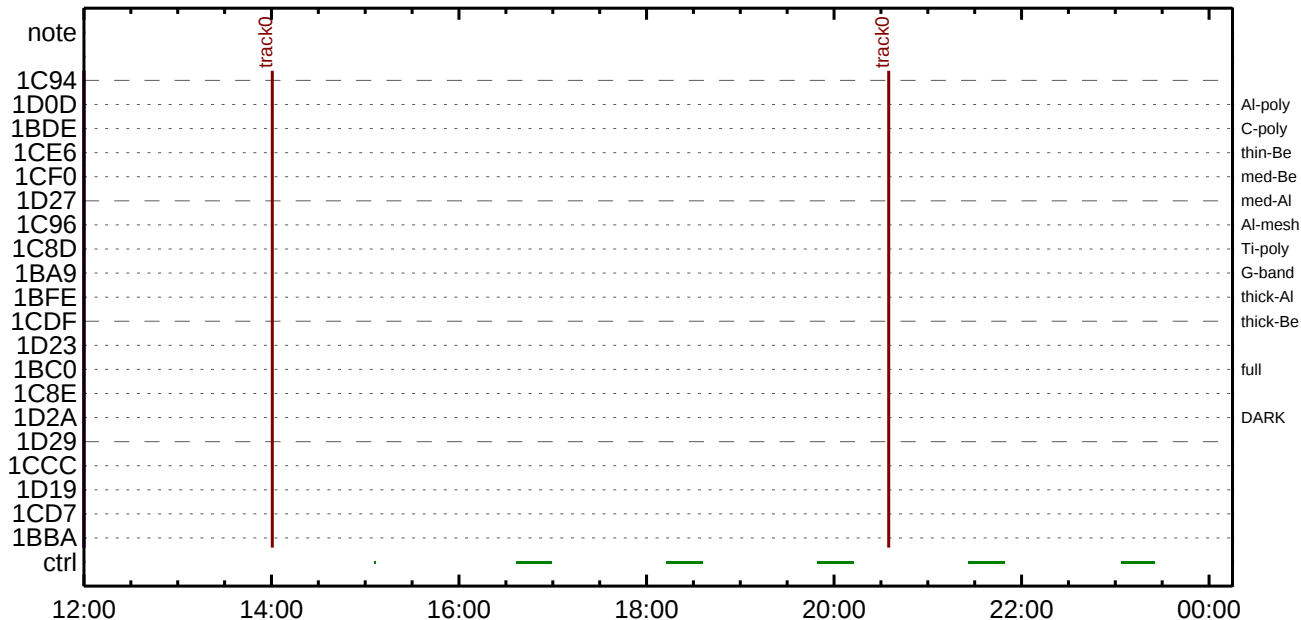
CMDI #0452 2025/03/16



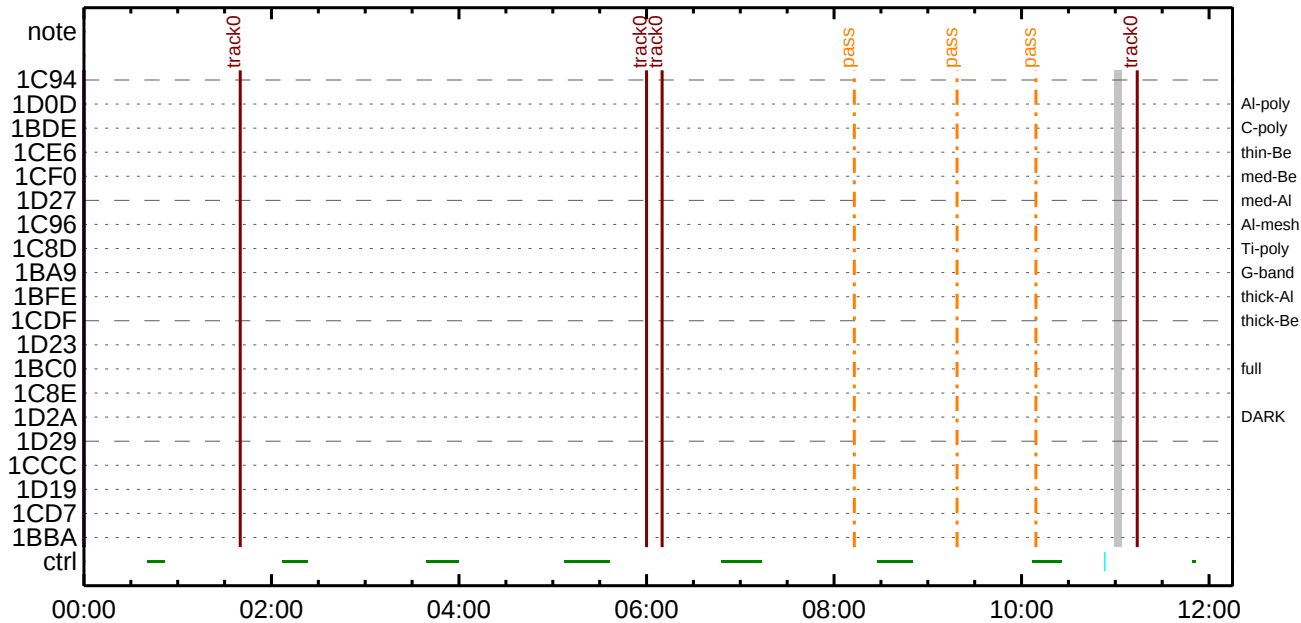
CMDI #0452 2025/03/17



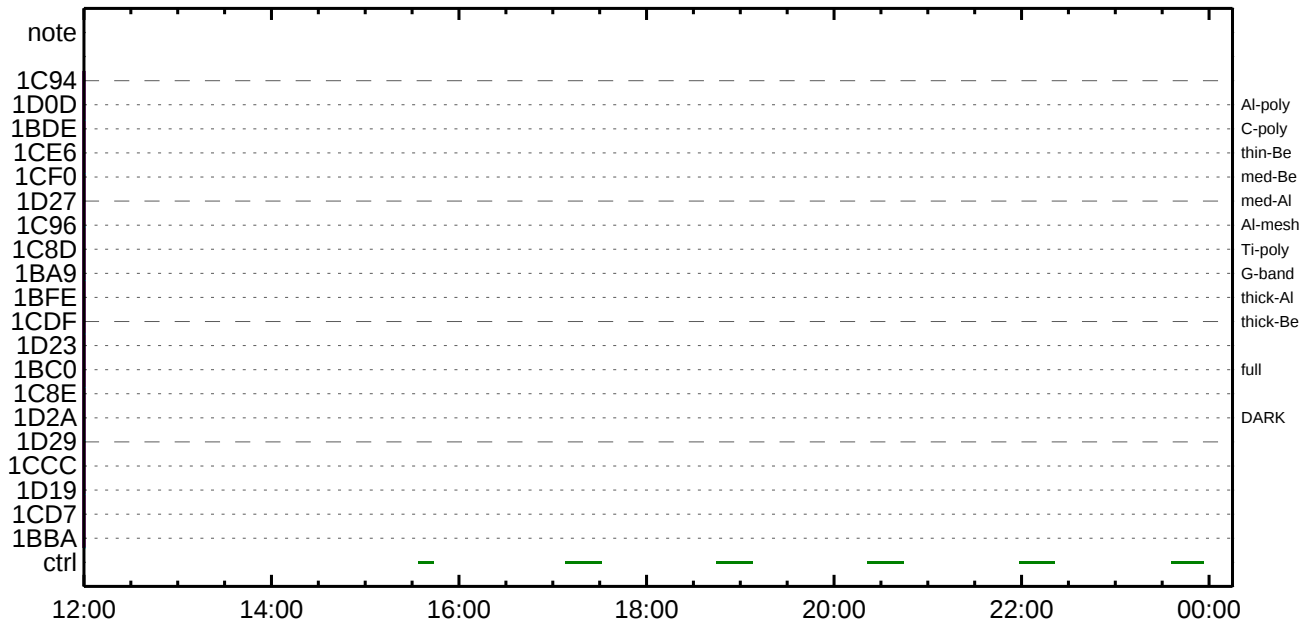
CMDI #0452 2025/03/17



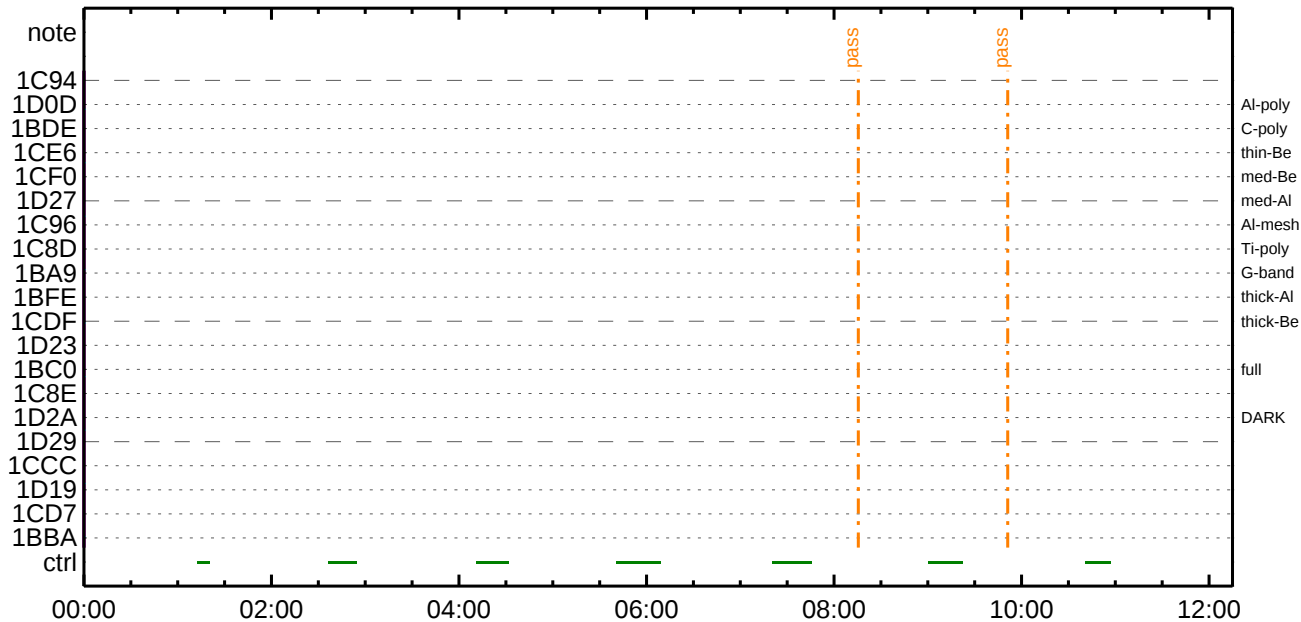
CMDI #0452 2025/03/18



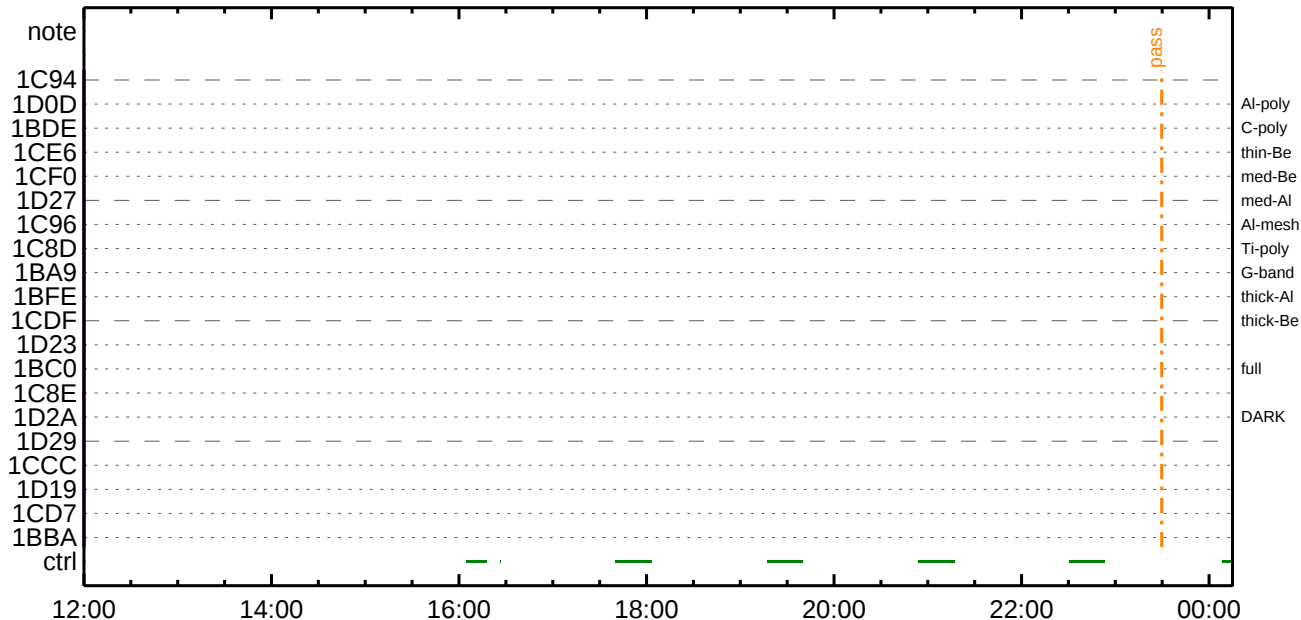
CMDI #0452 2025/03/18



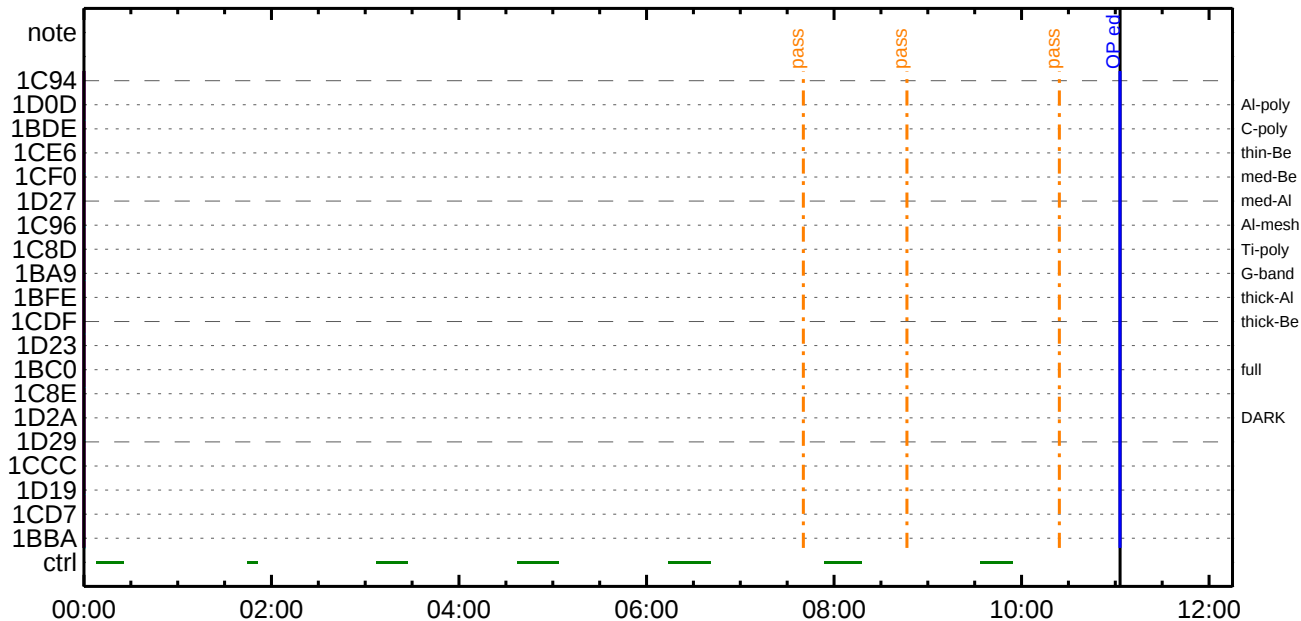
CMDI #0452 2025/03/19



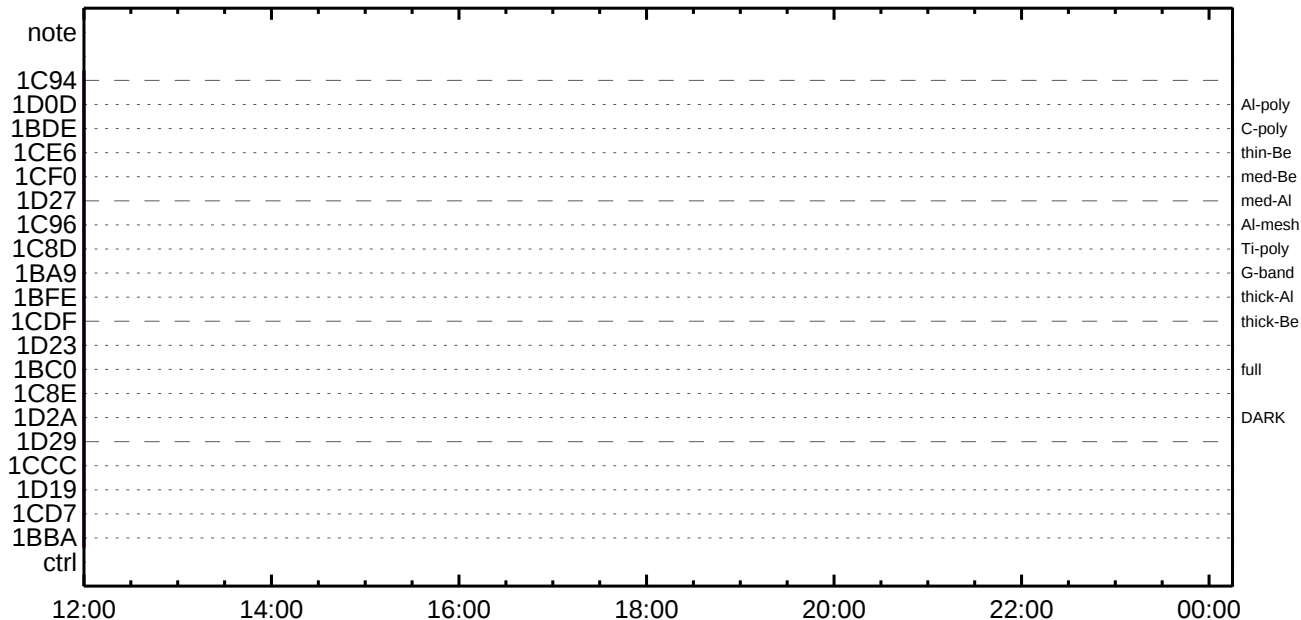
CMDI #0452 2025/03/19



CMDI #0452 2025/03/20



CMDI #0452 2025/03/20



(a) Spacecraft Operation Procedure (real-commands)

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main-155 2025-03-15 15:04:29 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOS¥Á¥$¥Á¥~¼Ä»Ü;ä
0005 C.
0006 C. ¥À¥ß;¼¥³¥Ð¥ó¥ÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ê¼¿¼Ä¼•µ°Æ»Í×ÁÇ¼Í¥Ç¥Á¥×¥í;¼¥É;ÊÊè¼µ•ííÊ;ÊÊÊ¼°ÇÖ¼•¼¿¼í¹Ç¼Í;ÇÀ®,ù¼¹¼è¼µ¼ÇÁ÷¿®¼•¼Ê¼µ¼³¼È;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OG¥í;¼¥É;¥Á¥ó¥×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OG¥í;¼¥É;ä
0019 . S. OP op-155:OP
0020 ()
0021 . S. OG og-155:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPíî°è¥Á¥ó¥×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0036 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ¥À¥ó¥×¼°í»¼³íÇ$
0041 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOG¼í¼Ê¹Ç•è²íOK¼³íÇ$
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. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0055 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ¥À¥ó¥×¼°í»¼³íÇ$
0060 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOG¼í¼Ê¹Ç•è²íOK¼³íÇ$
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. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0074 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ¥À¥ó¥×¼°í»¼³íÇ$
0079 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OP¼í¼Ê¹Ç•è²íOK¼³íÇ$
0081 C.
0082 . C. ***** °Ê²¼¼í¼Ä´¼¼°¼ÊÊ¬¼°Á÷¿® (¼ã¼µ-¥À¥ó¥×¼°è¼Ç¼¼°Á¼Ä¼Ç¼°¼¼°¼è¼¼¹Ç¼Ç¼Ä) *****
0083 C. DHU¥ä;¼¥É;Ê¼ý½, ¥í;¼¥É;Ê¼òíá¼¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. ¢¢[HK1_PKT_FORM_NO] EQ 2
0087 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. ¢¢[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 UPLOAD¼¬Á÷¿®NG¼í¼¹¹Ç;Ç°Ê²¼¼íTI-CMDÁ÷¿®¼í¼Ä¹Ô¼•¼Ê¼µ¼³¼È;£
```

0096	C.			
0097	C.			
0098	C.	TI 2025-03-15 11:00:00.0		
0099	+	TI	2025-03-15 11:00:00.0	
0100	DC	01-B3	DHU_OP_STOP	
0101	C.		HK1_TI_CMD_NUM	EQ 1COUNTUP
0102	C.			
0103	+	TI	2025-03-15 11:00:01.0	
0104	DC	01-B4	DHU_OP_COPY	
0105	C.		HK1_TI_CMD_NUM	EQ 1COUNTUP
0106	C.			
0107	+	TI	2025-03-15 11:00:01.0	
0108	DC	01-B5	DHU_OPOG_COPY	
0109	C.		HK1_TI_CMD_NUM	EQ 1COUNTUP
0110	C.			
0111	+	TI	2025-03-15 11:04:59.5	
0112	DC	01-B2	DHU_OP_START	
0113	C.		HK1_TI_CMD_NUM	EQ 1COUNTUP
0114	C.			
0115	C.	0E24mIAE3iIINmIAVSAY-1aiU		
0116	C.		HK1_TI_CMD_ENA/DIS	EQ ENA
0117	C.		HK1_TI_CMD_NUM	EQ 4
0118	C.		HK1_NEXT_EXEC_PIM	EQ DHU
0119	C.		HK1_NEXT_EXEC_DC	EQ 0xB3
0120	C.			
0121	C.	*****		
0122	C.	TI 2025-03-15 11:04:59.5		
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.		HK1_DMP_TOP_ADRS_1	EQ 07
0129	C.		HK1_DMP_TOP_ADRS_0	EQ 2B
0130	C.		HK1_DMP_BLOCK_NUM	EQ 3
0131	C.		HK1_DMP_REPEAT_NUM	EQ 0
0132	C.		HK1_DMA_DMP_PIM	EQ DHU
0133	+	DC	01-22 DHU_MODE_CHNG	
0134	BC	(07 0b f8)		
0135	C.		HK1_PKT_FORM_NO	EQ 7
0136	C.		HK1_PKT_GEN_TIME	EQ 0.25 s
0137	C.		HK1_S_TLM_BIT_RATE	EQ 32k
0138	C.		HK1_X_TLM_BIT_RATE	EQ 4M
0139	C.		HK1_DMP_CHK_FLG	EQ EXEC
0140	C.			
0141	C.	YAAYx2aI»m03IC\$		
0142	C.		HK1_DMP_CHK_FLG	EQ NON
0143	C.			
0144	C.	RAM ID=TI_TBLmIAE1C•E2IOK»m03IC\$		
0145	C.			
0146	C.	DHUAYa;4YE;E4y1/2;4YE;E»m0Iam1		
0147	+	DC	01-22 DHU_MODE_CHNG	
0148	BC	(02 0a f8)		
0149	C.		HK1_PKT_FORM_NO	EQ 2
0150	C.		HK1_PKT_GEN_TIME	EQ 0.5S
0151	C.		HK1_S_TLM_BIT_RATE	EQ 32K
0152	C.		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	2025-03-15 11:04:16.0	
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.	Stop EIS observation and temporarily disable EIS mode changes		
0166	C.			
0167	C.			
0168	C.	***** Start EIS operation (TI set) *****		
0169	C.	Execute, after the success of OP upload.		
0170	C.	Set EIS TI-commands		
0171	+	TI	2025-03-15 11:04:30.0	
0172	DC	07-FC	EIS_MODE_MANU	
0173	BC	(21 02)		
0174	+	TI	2025-03-15 11:04:40.0	
0175	DC	07-FC	EIS_MODE_CHG_DIS	
0176	BC	(22)		
0177	C.		[] [HK1_TI_CMD_NUM]	EQ 2 COUNTUP
0178	C.	***** End EIS operation (TI set) *****		
0179	C.			
0180	C.			
0181	C.			
0182	C.	***** XRT START *****		
0183	C.	Execute, after the success of OP upload.		
0184	+	TI	2025-03-15 11:04:00.0	
0185	DC	07-F0	MDP_XRT_MODE_STBY	
0186	BC	(c3)		
0187	C.		[] [HK1_TI_CMD_NUM]	EQ 1COUNTUP
0188	C.			
0189	C.	***** XRT END *****		
0190	C.			
0191	C.	***** MDP 'uAIInI»04YmEADm1»eDCBC•x2e *****		
0192	C.	(3a0iY0YAYEYDYEAYCYEEmE34m4A)U»m1»e)		
0193	S.	DC-BC dcdbc-402:DCBC		

```
0194      (MDP_known_event)
0195      C.
0196      C.
0197      . C. ***** ¥ÐŸ¹•Ï Daily±¿ÍÑ¤Ë'Ø¤¹¤ěDCBC•x²è *****
0198      . S. DC-BC dcbc-153:DCBC
0199      (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200      C.
0201      C.
0202      . C. ;ãLOS¥Á¥$¥Ã¥~¼Â»Ü;ä
0203      C.
0204      . C. ***** LOS *****
0205      C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-156 2025-03-15 15:04:29 108 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŸÁŸ$ŸÄŸ~¼Ä»Ü;ä
0005 C.
0006 C. ŸÄŸß;¼Ÿ³ŸDŸóŸÉÄ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;Ë¼¿¼Ä¼•µ°Æ»Í×ÄÇ¼ÍŸçŸÄŸ×Ÿí;¼ŸÉ;ËËè¼µ•ííË;ËÈÈ¼°ÇÖ¼•¼¿¼¹¿¼Í;çÄ®,ù¼¹¼è¼D¼ÇÄ÷¿®¼•¼Ë¼¼¼³¼È;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ()
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_ST$1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCS Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCS DUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. ***** Start EIS SAFE RECOVERY operation *****
0046 . C. ENABLE MODE CHANGE
0047 +. DC 07-FC EIS_MODE_CHG_ENA
0048 BC (20)
0049 . C. MHC SLIT/SLOT RESOLVER TO AUTO
0050 +. DC 07-FC EIS_RESOLV_AUTO
0051 BC (72 00 99 00 02 00 03)
0052 . C. Wait 5 seconds
0053 . C. ENABLE MHC AUTO SAFE
0054 +. DC 07-FC EIS_MHC_SAFE_ENA
0055 BC (5f c0 9a 00 02 00 01)
0056 . C. Wait 5 seconds
0057 . C. ENABLE MHC MECHANISMS
0058 +. DC 07-FC EIS_MHC_MECH_ENA
0059 BC (54 e8 8e)
0060 . C. Wait 5 seconds
0061 . C. FIND MHC SHUTTER INDEX
0062 +. DC 07-FC EIS_FIND_SHT_INDEX
0063 BC (5a 60 09)
0064 . C. Wait 30 seconds
0065 . C. Verify status type 3 parameters: EIS_MHC_SAFE_STS = NON , EIS_MHC_SAFE_FLG = ENA , EIS_MHC_MECH_FLG = ENA , EIS_SHUTTER_INDEX = ACT
0066 C.
0067 . C. ***** End EIS SAFE RECOVERY operation *****
0068 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0069 +. DC 07-FC EIS_MODE_CHG_ENA
0070 BC (20)
0071 . C. Verify EIS_MODE_CHG_FLG is ENA
0072 +. DC 07-FC EIS_MODE_MANU
0073 BC (21 02)
0074 . C. Verify EIS in MANUAL mode
0075 . C. Estimated OBSTBL upload time is 20s
0076 C. *****
0077 C. EIS START OBSTBL LOAD
0078 C. *****
0079 . S. RAM ram-820:EIS_OBSTBL
0080 ()
0081 +. DC 07-FC EIS_DUMP_OBSTBL
0082 BC (07 07 07 00 00 70 00)
0083 C.
0084 C. Execute, after the success of OBSTBL upload.
0085 C. Set EIS TI-commands
0086 +. TI 2025-03-15 11:04:50.0
0087 DC 07-FC EIS_MODE_CHG_ENA
0088 BC (20)
0089 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0090 C. *****
0091 C. EIS END OBSTBL LOAD
0092 C. *****
0093 C.
0094 . C. ***** MDP ´ûÄÍ¼Í»ö¼Ÿ¼ËÄD¼¹¼èDCBC•×²è *****
```

```
0095      C. (%ã°İŸÓĀŸÈŸĐŸËŸâŸçŸë¼¼¼¼»Ü¼¼¼¼)
0096      . S. DC-BC dcbc-402:DCBC
0097      (MDP_known_event)
0098      C.
0099      C.
0100      C. ***** ŸĐŸı•İ Daily±;ÍÑ½É'Ø¼¼¼¼DCBC•x²è *****
0101      . S. DC-BC dcbc-153:DCBC
0102      (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0103      C.
0104      C.
0105      . C. ;ăŁOSŸĂŸ$ŸĂŸ^-¼Ä»Ü;ă
0106      C.
0107      . C. ***** LOS *****
0108      C.
```

```
main-157 2025-03-15 15:04:29 130 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŲÁŲSŲÃŲ~¼Ä»Ü;ä
0005 C.
0006 C. ŲÄŲß;¼Ų³ŲÐŲóŲÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;Ë¤ç¤¤•µ°E»Í×Åç¤ÎŲçŲÄŲ×Ųí;¼ŲÈ;ËËè½µ•îÊ;Ë¤È¼°ÇÔ¤•¤¿¾¹ç¤İ;çÀ®,ù¤¹¤Ë¤¤¤ÇÄ÷ç®¤•¤Ë¤¤¤¤¤¤;£
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-286: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 2025-03-15 11:04:18.0
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 06 85 83 06 06)
0076 +. DC 07-F0 MDP_XRT_ROI_SET
0077 BC (cd 07 80 80 06 06)
0078 +. DC 07-F0 MDP_XRT_ROI_SET
0079 BC (cd 08 80 80 20 20)
0080 +. DC 07-F0 MDP_XRT_ROI_SET
0081 BC (cd 09 80 80 20 08)
0082 +. DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 0a 80 80 08 20)
0084 +. DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 0f 80 80 06 06)
0086 +. DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 10 80 80 08 08)
0088 +. DC 07-F0 MDP_XRT_FLD_ENA
0089 BC (d8)
0090 +. DC 07-F0 MDP_XRT_FLRCTRL_ENA
0091 BC (c8)
0092 +. DC 07-F0 MDP_XRT_ARS_DIS
0093 BC (d5)
0094 +. DC 07-F0 MDP_XRT_AEC_RESET
0095 BC (d0)
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0096 + DC 07-F0 MDP_XRT_FLD_RESET
0097 BC (da)
0098 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0099 BC (c4 13)
0100 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0101 BC (c5 0f)
0102 . C. ----- Success Verify ? OK / NG ____
0103 C.
0104 C.
0105 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0106 C.
0107 +. DC 07-F0 MDP_XRT_MODE_OBSV
0108 BC (c2)
0109 +. TI 2025-03-15 11:04:02.0
0110 DC 07-F0 MDP_XRT_MODE_OBSV
0111 BC (c2)
0112 . C. ----- Success Verify ? OK / NG ____
0113 C.
0114 C. ***** XRT END *****
0115 C.
0116 . C. ***** MDP `ûÃñî»ö¼ÝñÊÂÐñ¹ëDCBC•×²è *****
0117 C. (¾â°ïŸÓŸÄŸËŸÐŸËŸÄŸÇŸËñÊ½¾ñ¾¼Ã»Üñ¹ë)
0118 . S. DC-BC dcbc-402:DCBC
0119 (MDP_known_event)
0120 C.
0121 C.
0122 . C. ***** ŸÐŸ¹•İ Daily±¿ÍÑñÊ´Øñ¹ëDCBC•×²è *****
0123 . S. DC-BC dcbc-153:DCBC
0124 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0125 C.
0126 C.
0127 . C. ;ãLOSŸÄŸ$ŸÃŸ~¼Ã»Ü;ä
0128 C.
0129 . C. ***** LOS *****
0130 C.
```

Mar 15, 25 15:04

XRT_OGLIST_0452.chk

Page 1/4

*** OP Sequence for XRT ***

2025/03/15	11:14:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	11:14:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	11:14:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2025/03/15	11:15:00.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	01 03 64 01 ca				
2025/03/15	11:15:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2025/03/15	11:15:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2025/03/15	11:15:22.0	XRT_AEC_RESET_448_OG [0x1c0]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2025/03/15	11:15:24.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2025/03/15	11:15:26.0	XRT_FLD_RESET_434_OG [0x1b2]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/15	11:17:56.0	XRT_QT_PROG_SET_431_OG [0x1af]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 13				
2025/03/15	11:17:58.0	XRT_FL_PROG_SET_404_OG [0x194]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0f				
2025/03/15	11:18:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/15	11:49:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	11:49:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	11:49:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/15	11:49:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2025/03/15	11:52:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2025/03/15	11:55:00.0	XRT_Custom_430_OG [0x1ae]							
2025/03/15	11:56:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/15	15:34:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	15:34:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	15:34:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/15	15:34:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2025/03/15	15:37:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2025/03/15	15:44:00.0	XRT_Custom_430_OG [0x1ae]							
2025/03/15	15:45:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/15	17:08:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	17:08:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	17:08:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/15	17:08:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2025/03/15	17:11:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2025/03/15	17:31:30.0	XRT_Custom_430_OG [0x1ae]							
2025/03/15	17:32:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/15	18:01:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	18:01:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	18:01:58.0	XRT_FOCUS_POSITION_406_OG [0x196]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2025/03/15	18:02:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2025/03/15	18:02:18.0	XRT_FLD_DIS_409_OG [0x199]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2025/03/15	18:02:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2025/03/15	18:02:22.0	XRT_ARS_DIS_435_OG [0x1b3]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2025/03/15	18:04:58.0	XRT_QT_PROG_SET_436_OG [0x1b4]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2025/03/15	18:05:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/15	18:11:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	18:11:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/15	18:11:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2025/03/15	18:12:00.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	01 03 64 01 ca				
2025/03/15	18:12:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				

Mar 15, 25 15:04

XRT_OGLIST_0452.chk

Page 2/4

2025/03/15	18:12:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2025/03/15	18:12:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2025/03/15	18:12:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2025/03/15	18:12:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da
2025/03/15	18:14:56.0	XRT_QT_PROG_SET_431_OG [0x1af]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 13
2025/03/15	18:14:58.0	XRT_FL_PROG_SET_404_OG [0x194]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0f
2025/03/15	18:15:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2025/03/15	18:45:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	18:45:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	18:45:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2025/03/15	18:45:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2025/03/15	18:48:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2025/03/15	19:08:00.0	XRT_Custom_430_OG [0x1ae]				
2025/03/15	19:09:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2025/03/15	20:21:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	20:21:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	20:21:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2025/03/15	20:21:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2025/03/15	20:24:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2025/03/15	20:44:30.0	XRT_Custom_430_OG [0x1ae]				
2025/03/15	20:45:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2025/03/15	21:58:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	21:58:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	21:58:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2025/03/15	21:58:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2025/03/15	22:01:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2025/03/15	22:21:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	22:21:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	22:21:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2025/03/15	22:22:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2025/03/15	22:22:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2025/03/15	22:22:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2025/03/15	22:22:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2025/03/15	22:22:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da
2025/03/15	22:24:56.0	XRT_QT_PROG_SET_426_OG [0x1aa]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0b
2025/03/15	22:24:58.0	XRT_FL_PROG_SET_404_OG [0x194]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0f
2025/03/15	22:25:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2025/03/15	23:36:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	23:36:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/15	23:36:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2025/03/15	23:36:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2025/03/15	23:39:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2025/03/15	23:56:30.0	XRT_Custom_430_OG [0x1ae]				
2025/03/15	23:57:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2025/03/16	01:13:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/16	01:13:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2025/03/16	01:13:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2025/03/16	01:13:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8

Mar 15, 25 15:04

XRT_OGLIST_0452.chk

Page 3/4

2025/03/16	01:16:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2025/03/16	01:21:00.0	XRT_Custom_430_OG [0x1ae]							
2025/03/16	01:22:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/16	02:36:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	02:36:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	02:36:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/16	02:36:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2025/03/16	02:39:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2025/03/16	02:45:33.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	02:45:35.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	02:45:37.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2025/03/16	02:45:39.0	AOCS_Ore-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 54 41 ff e0				
2025/03/16	02:45:57.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2025/03/16	02:45:59.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2025/03/16	02:46:01.0	XRT_AEC_RESET_448_OG [0x1c0]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2025/03/16	02:46:03.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2025/03/16	02:46:05.0	XRT_FLD_RESET_434_OG [0x1b2]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/16	02:48:35.0	XRT_QT_PROG_SET_414_OG [0x19e]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0a				
2025/03/16	02:48:37.0	XRT_FL_PROG_SET_404_OG [0x194]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0f				
2025/03/16	02:55:00.0	XRT_Custom_430_OG [0x1ae]							
2025/03/16	02:56:00.5	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/16	04:11:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	04:11:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	04:11:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/16	04:11:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2025/03/16	04:14:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2025/03/16	04:32:00.0	XRT_Custom_430_OG [0x1ae]							
2025/03/16	04:33:00.5	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/16	05:41:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	05:41:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	05:41:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2025/03/16	05:41:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2025/03/16	05:44:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2025/03/16	06:09:00.5	XRT_Custom_430_OG [0x1ae]							
2025/03/16	06:10:00.5	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/16	06:18:24.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	06:18:26.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	06:18:28.0	XRT_FOCUS_POSITION_406_OG [0x196]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2025/03/16	06:18:30.0	AOCS_Ore-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2025/03/16	06:18:48.0	XRT_FLD_DIS_409_OG [0x199]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2025/03/16	06:18:50.0	XRT_FLRCTRL_DIS_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2025/03/16	06:18:52.0	XRT_ARS_DIS_435_OG [0x1b3]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2025/03/16	06:21:28.0	XRT_QT_PROG_SET_436_OG [0x1b4]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2025/03/16	06:21:30.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2025/03/16	06:28:00.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2025/03/16	06:28:30.0	AOCS_Ore-point_Start_4_OG [0x09a]							
		AOCU_NM	5	02-76	03 03 64 01 ca				
2025/03/16	06:30:00.0	XRT_TCIB_XRT_S_HTR_A_ENA_418_OG [0x1a2]							
		TCIB_XRT_S_HTR_A_ENA	0	04-BC					
2025/03/16	10:00:00.0	AOCS_Ore-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 54 41 ff e0				
2025/03/16	13:00:00.0	AOCS_Ore-point_Start_1_OG [0x097]							

Mar 15, 25 15:04

XRT_OGLIST_0452.chk

Page 4/4

2025/03/16	18:04:00.0	AOCU_NM AOCs_ORe-point_Start_2_OG [0x098]	5 02-76 01 03 64 01 ca
2025/03/16	18:14:00.0	AOCU_NM AOCs_ORe-point_Start_1_OG [0x097]	5 02-76 00 00 00 00 00
2025/03/17	00:00:00.0	AOCU_NM AOCs_ORe-point_Start_3_OG [0x099]	5 02-76 01 03 64 01 ca
2025/03/17	03:30:00.0	AOCU_NM AOCs_ORe-point_Start_1_OG [0x097]	5 02-76 00 54 41 ff e0
2025/03/17	05:47:30.0	AOCU_NM AOCs_ORe-point_Start_2_OG [0x098]	5 02-76 01 03 64 01 ca
2025/03/17	05:57:30.0	AOCU_NM AOCs_ORe-point_Start_1_OG [0x097]	5 02-76 00 00 00 00 00
2025/03/17	14:00:30.0	AOCU_NM AOCs_ORe-point_Start_3_OG [0x099]	5 02-76 01 03 64 01 ca
2025/03/17	20:35:00.0	AOCU_NM AOCs_ORe-point_Start_5_OG [0x09b]	5 02-76 00 54 41 ff e0
2025/03/18	01:40:00.0	AOCU_NM AOCs_ORe-point_Start_6_OG [0x09c]	5 02-76 00 de 0d b1 9a
2025/03/18	06:00:00.0	AOCU_NM AOCs_ORe-point_Start_2_OG [0x098]	5 02-76 00 f9 82 aa 98
2025/03/18	06:10:00.0	AOCU_NM AOCs_ORe-point_Start_7_OG [0x09d]	5 02-76 00 00 00 00 00
2025/03/18	10:53:15.0	AOCU_NM XRT_CTRL_MANU_402_OG [0x192]	5 02-76 00 1a 35 ae 98
2025/03/18	11:14:00.0	MDP_XRT_CTRL_MANU AOCs_ORe-point_Start_2_OG [0x098]	1 07-F0 c1
		AOCU_NM	5 02-76 00 00 00 00 00