

# XRT Timeline to be uploaded on 2017/09/21

Period: 2017/09/21 09:59:00 - 2017/09/26 11:00:00

\* \* \* \* \*

Normal mode

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XOB #1BC6: HOP338 Al/mesh (8092ms) Al/poly (8092ms) 384FOV 60s cad with Gband/lightleak (1ms)													
Term	Pointing (x, y)	Comment											
09/21 10:12:00 - 09/21 12:59:54	Track ( -344.7, -58.1) <sup>Ⓢ 09/21 10:09:00</sup>	# OP start + 10min, HOP338 in magnetic bright point											
09/22 09:03:00 - 09/22 12:59:54	Track ( -139.6, -63.7) <sup>Ⓢ 09/22 09:00:00</sup>	HOP338 in MBP											
09/23 09:03:00 - 09/23 10:45:00	Track ( 82.2, -63.4) <sup>Ⓢ 09/23 09:00:00</sup>	HOP338 in MBP											
<b>PROG= 09 Inf.-time(s)</b>													
└─ 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 2-time(s) 2.0sec													
└─ Seqn= 35 30-time(s) 60.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	8.00s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
	Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	8.00s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
└─ Seqn= 15 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	8.00s	Obs	1x1	512x512 (1064, 1048)	Q=98	0	0	2.0sec
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>Default Filter</span> <span>Thicker Filter</span> <span>VLS</span> <span>mode</span> <span>image</span> <span>Exp.</span> <span>CCD</span> <span>Bin</span> <span>ROI: size (center)</span> <span>Comp.</span> <span>AEC Buffer</span> <span>Interval</span> </div>													

## XOB #1B96: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 360s cad (G-band/Leak first)

Term	Pointing (x, y)	Comment											
09/21 13:03:00 - 09/21 17:54:30	Track ( 485.9, -165.5) <sup>Ⓢ 09/21 13:00:00</sup>	EIS QS NW and coronal BP obs											
09/22 19:13:00 - 09/23 00:09:54	Track ( 702.6, -143.5) <sup>Ⓢ 09/22 19:10:00</sup>	EIS QS NW and coronal BP obs											
<b>PROG= 18 Inf.-time(s)</b>													
└─ Subr= 1 1-time(s) 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 10-time(s) 360.0sec													
└─ 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
<div style="display: flex; justify-content: space-between; font-size: small;"> <span>Default Filter</span> <span>Thicker Filter</span> <span>VLS</span> <span>mode</span> <span>image</span> <span>Exp.</span> <span>CCD</span> <span>Bin</span> <span>ROI: size (center)</span> <span>Comp.</span> <span>AEC Buffer</span> <span>Interval</span> </div>													

## XOB #1BA8: Synoptic 7 Filter w/ Al-mesh(24/256/2897), Al-poly(45/512/4096), Thin-Be(181/2048/11571) - Thick-Be(65536), Al-poly+Ti-poly(256/5795), Med-A

Term	Pointing (x, y)	Comment											
09/21 18:21:00 - 09/21 18:27:54	Fixed ( 0.0, 0.0)	synoptic, shifted 18.0 min											
<b>PROG= 05 1-time(s)</b>													
└─ 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= 1 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	24ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	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= 67 1-time(s) 2.0sec													
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.00s	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
└─ 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 2-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= 40 2-time(s) 2.0sec													
	Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
	Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 65 2-time(s) 2.0sec													
	med-Al/Open	med-Al/Open	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
	med-Al/Open	med-Al/Open	close	Safe	Norm	32.0s	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
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**XOB #1BB8: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, thin-Be, thick-Al, Al/Poly context, with G-band (1ms/1ms)**

Term	Pointing (x, y)	Comment
09/21 18:31:00 - 09/22 06:02:54	Track ( -854.4, -293.9) @ 09/21 18:28:00	# AR 12681 at E-limb

**PROG= 16 Inf.-time(s)**

Subr= 1	1-time(s)	2.0sec										
<b>Seqn= 92</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
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
<b>Seqn= 42</b>	<b>3-time(s)</b>	<b>2.0sec</b>										
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	5.66s	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
<b>Seqn= 32</b>	<b>30-time(s)</b>	<b>120.0sec</b>										
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	34.0sec
thin-Be/Open	med-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	34.0sec
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

**XOB #1BA7: Synoptic Q95 2x2 - Al/mesh(8/181/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(16/181/4096) + Th**

Term	Pointing (x, y)	Comment
09/22 06:06:00 - 09/22 06:12:54	Fixed ( 0.0, 0.0)	synoptic, shifted 3.0 min
09/22 19:03:00 - 09/22 19:09:54	Fixed ( 0.0, 0.0)	synoptic shifted manually
09/23 06:08:00 - 09/23 06:14:54	Fixed ( 0.0, 0.0)	synoptic, shifted 5.0 min

**PROG= 02 1-time(s)**

Subr= 1	1-time(s)	2.0sec										
<b>Seqn= 5</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
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
<b>Seqn= 26</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	8ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	177ms	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
<b>Seqn= 73</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
Al-poly/Open	Al-poly/Open	close	Safe	Norm	16ms	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	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
<b>Seqn= 44</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
thin-Be/Open	thin-Be/Open	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	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
<b>Seqn= 23</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
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

**XOB #1BC4: AR (Filter-Ratio with Al/poly and thin-Be) with PFB, 512x512 at 1064 1048, thick-Al context, with G-band (1ms/1ms leak), 90s cad**

Term	Pointing (x, y)	Comment
09/22 06:16:00 - 09/22 08:59:54	Track ( -810.3, -305.5) @ 09/22 06:13:00	#Cont,
09/23 00:13:00 - 09/23 05:28:00	Track ( -723.2, -321.8) @ 09/23 00:10:00	AR 12681 at E-limb
09/23 06:18:00 - 09/23 08:48:00	Track ( -688.6, -326.8) @ 09/23 06:15:00	# Cont,

**PROG= 06 Inf.-time(s)**

Subr= 1	1-time(s)	2.0sec										
<b>Seqn= 92</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
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
Open/thick-Al	Open/thick-Be	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1064, 1048)	Q=98	3	0	2.0sec
<b>Subr= 2</b>	<b>30-time(s)</b>	<b>90.0sec</b>										
<b>Seqn= 89</b>	<b>1-time(s)</b>	<b>24.0sec</b>										
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	512x512 (1064, 1048)	Q=95	2	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	512x512 (1064, 1048)	Q=95	2	0	14.0sec
<b>Seqn= 58</b>	<b>1-time(s)</b>	<b>24.0sec</b>										
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	1	2.0sec
<b>Seqn= 48</b>	<b>1-time(s)</b>	<b>2.0sec</b>										
Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec

<b>XOB #1B93: HOP81/206 2-filter - Al/poly 6s, Al/mesh 4s 30s cadence, G-band - 384x384 1ms</b>											
Term	Pointing (x, y)							Comment			
09/22 13:03:00 - 09/22 18:29:30	Fixed ( -21.0, 864.0)							HOP 206			
<b>PROG= 08 Inf-time(s)</b>											
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											
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval

\* \* \* \* \* **Flare mode** \* \* \* \* \*

<b>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</b>											
Term	Pointing (x, y)							Comment			
09/21 10:12:00 - 09/21 12:59:54	Track ( -344.7, -58.1) @ 09/21 10:09:00							# OP start + 10min, HOP338 in magnetic bright point			
09/21 13:03:00 - 09/21 17:54:30	Track ( 485.9, -165.5) @ 09/21 13:00:00							EIS QS NW and coronal BP obs			
09/21 18:31:00 - 09/22 06:02:54	Track ( -854.4, -293.9) @ 09/21 18:28:00							# AR 12681 at E-limb			
09/22 06:16:00 - 09/22 08:59:54	Track ( -810.3, -305.5) @ 09/22 06:13:00							#Cont,			
09/22 09:03:00 - 09/22 12:59:54	Track ( -139.6, -63.7) @ 09/22 09:00:00							HOP338 in MBP			
09/22 13:03:00 - 09/22 18:29:30	Fixed ( -21.0, 864.0)							HOP 206			
09/22 19:13:00 - 09/23 00:09:54	Track ( 702.6, -143.5) @ 09/22 19:10:00							EIS QS NW and coronal BP obs			
09/23 00:13:00 - 09/23 05:28:00	Track ( -723.2, -321.8) @ 09/23 00:10:00							AR 12681 at E-limb			
09/23 06:18:00 - 09/23 08:48:00	Track ( -688.6, -326.8) @ 09/23 06:15:00							# Cont,			
09/23 09:03:00 - 09/23 10:45:00	Track ( 82.2, -63.4) @ 09/23 09:00:00							HOP338 in MBP			
<b>PROG= 13 30-time(s)</b>											
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

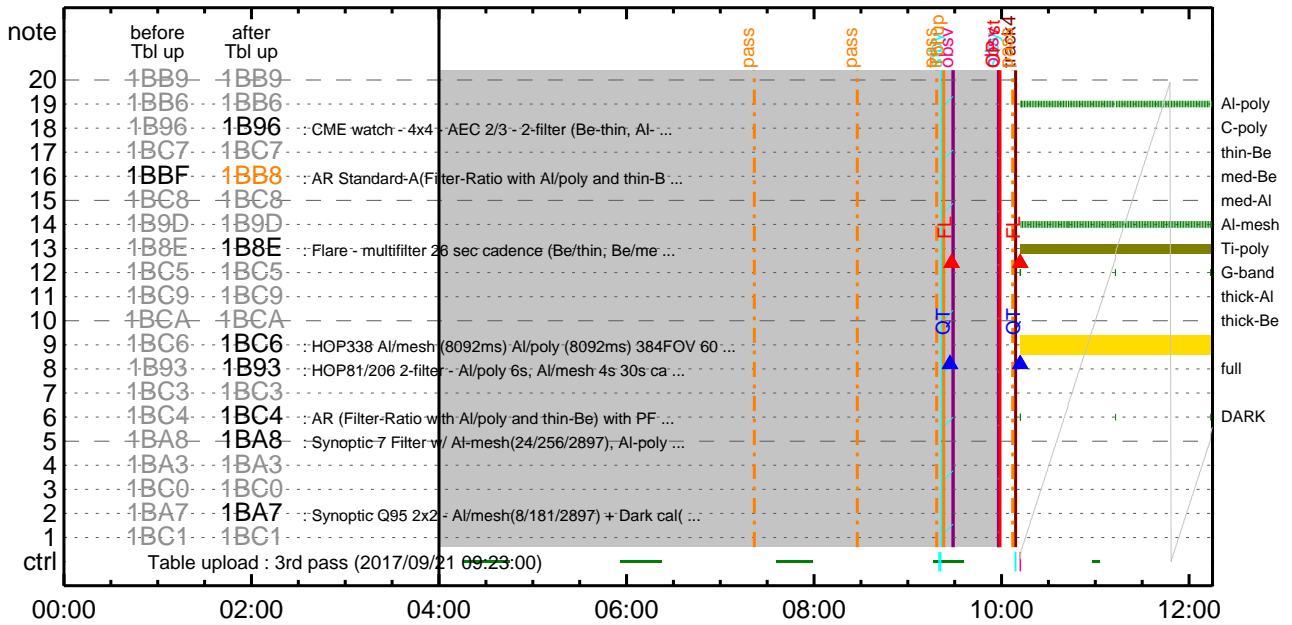
\* \* \* \* \* **Active Region Search** \* \* \* \* \*

NOT USED

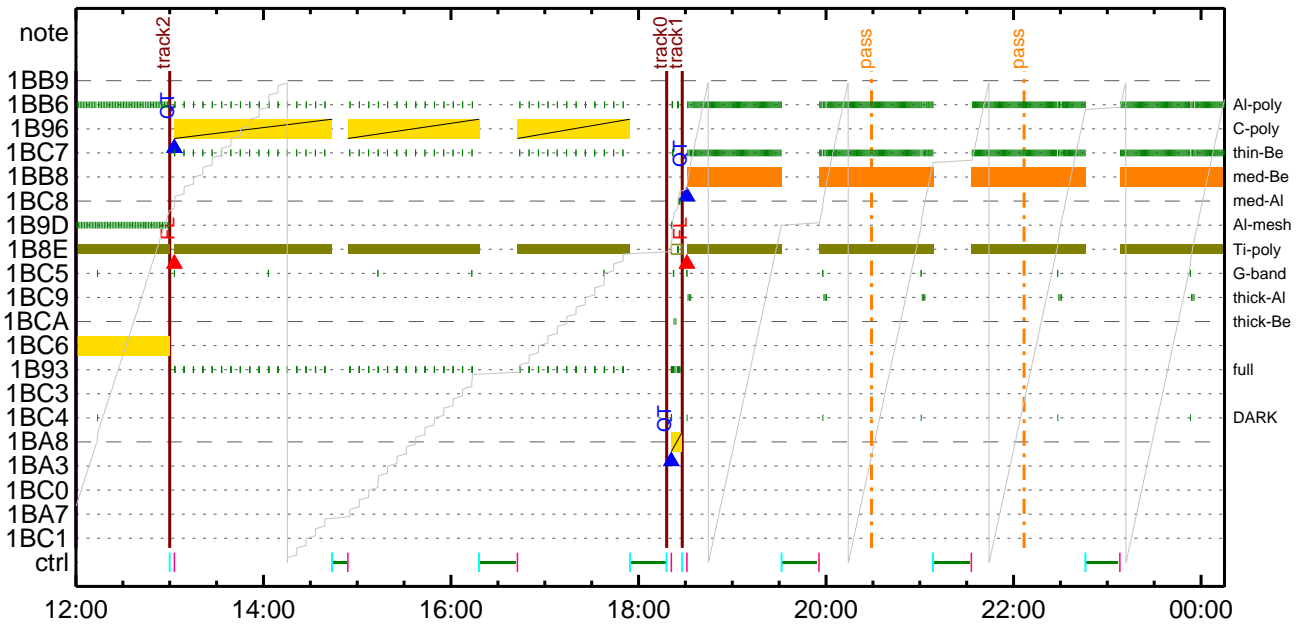
\* \* \* \* \* **Flare Detection** \* \* \* \* \*

<b>FLD Patrol</b>											
Term	Pointing (x, y)							Comment			
09/21 18:28:18 - 09/22 06:03:18	Track ( -854.4, -293.9) @ 09/21 18:28:00							# AR 12681 at E-limb			
09/22 06:13:18 - 09/22 19:00:18	Track ( -810.3, -305.5) @ 09/22 06:13:00							#Cont,			
09/22 19:10:18 - 09/23 06:05:18	Track ( 702.6, -143.5) @ 09/22 19:10:00							EIS QS NW and coronal BP obs			
09/23 06:15:18 - 09/26 11:00:00	Track ( -688.6, -326.8) @ 09/23 06:15:00							# Cont,			
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

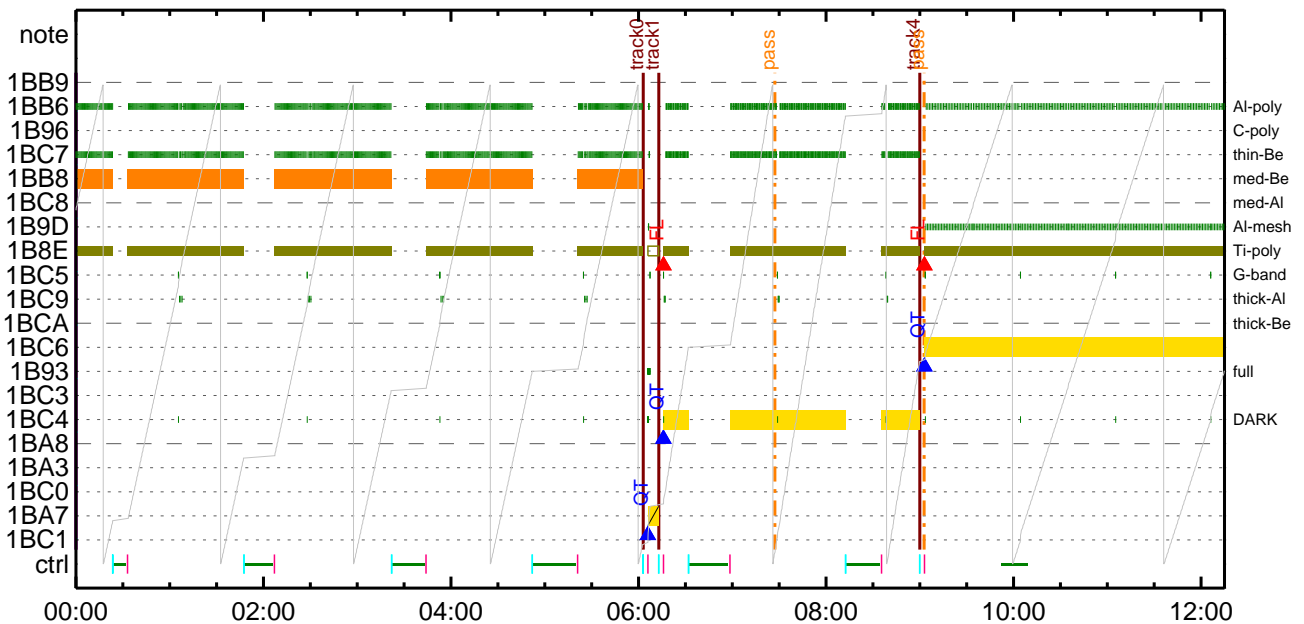
### CMDI #0007 2017/09/21



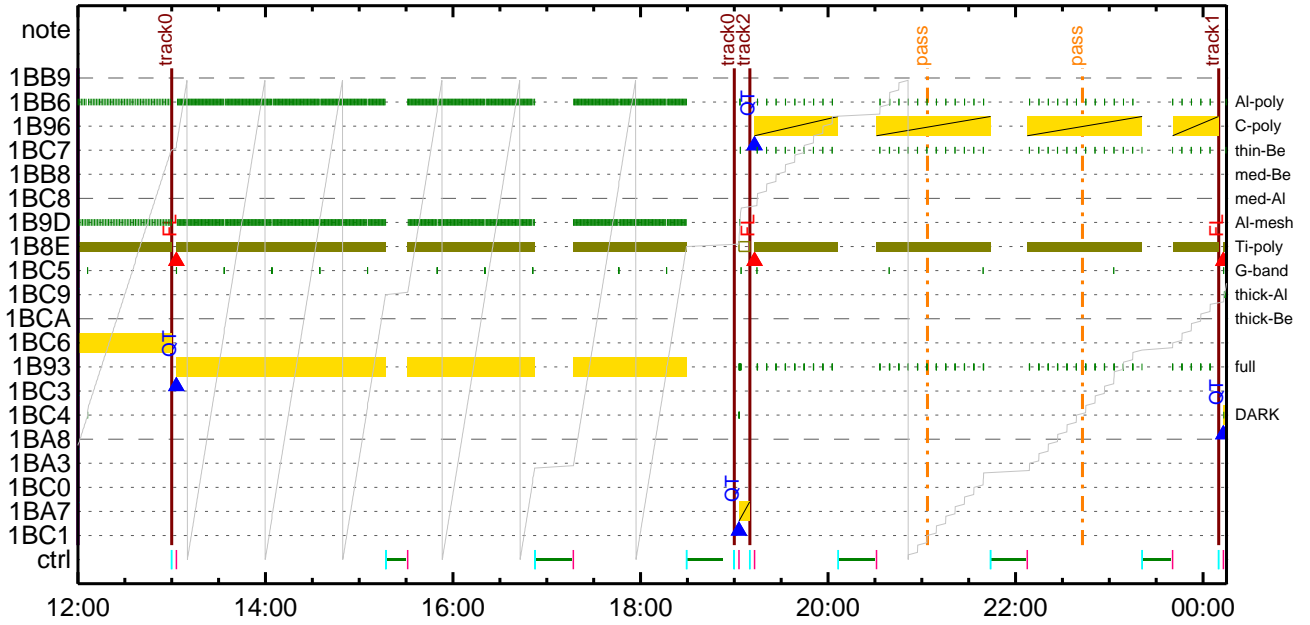
### CMDI #0007 2017/09/21



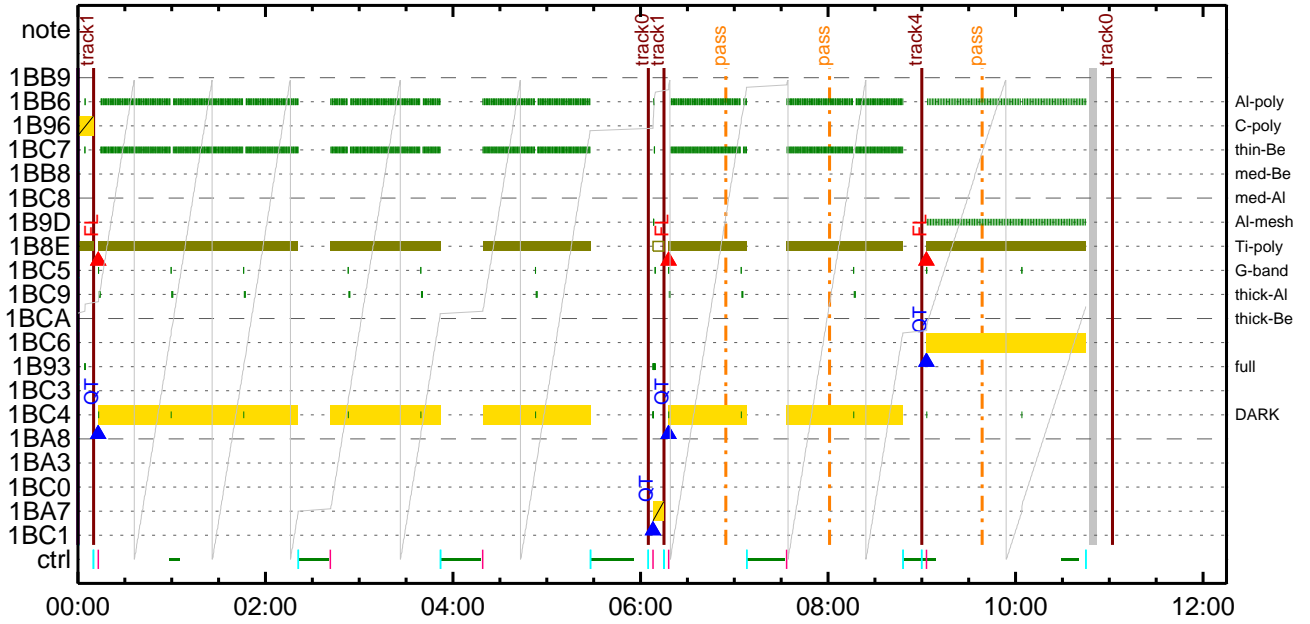
### CMDI #0007 2017/09/22



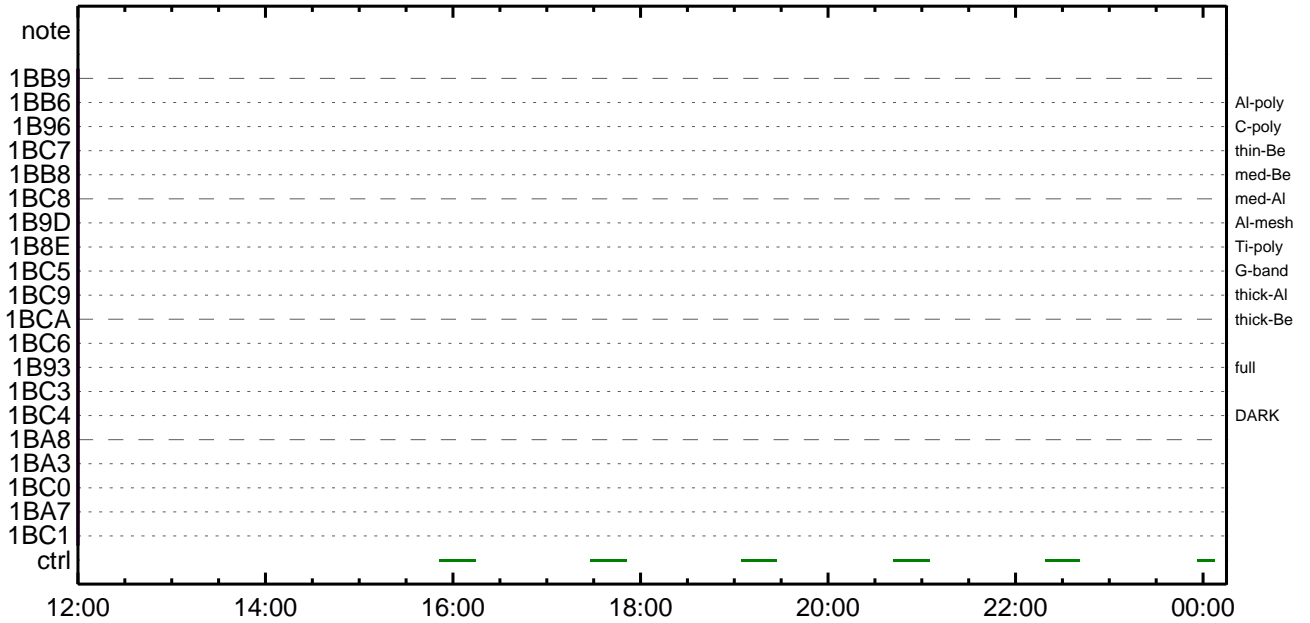
CMDI #0007 2017/09/22



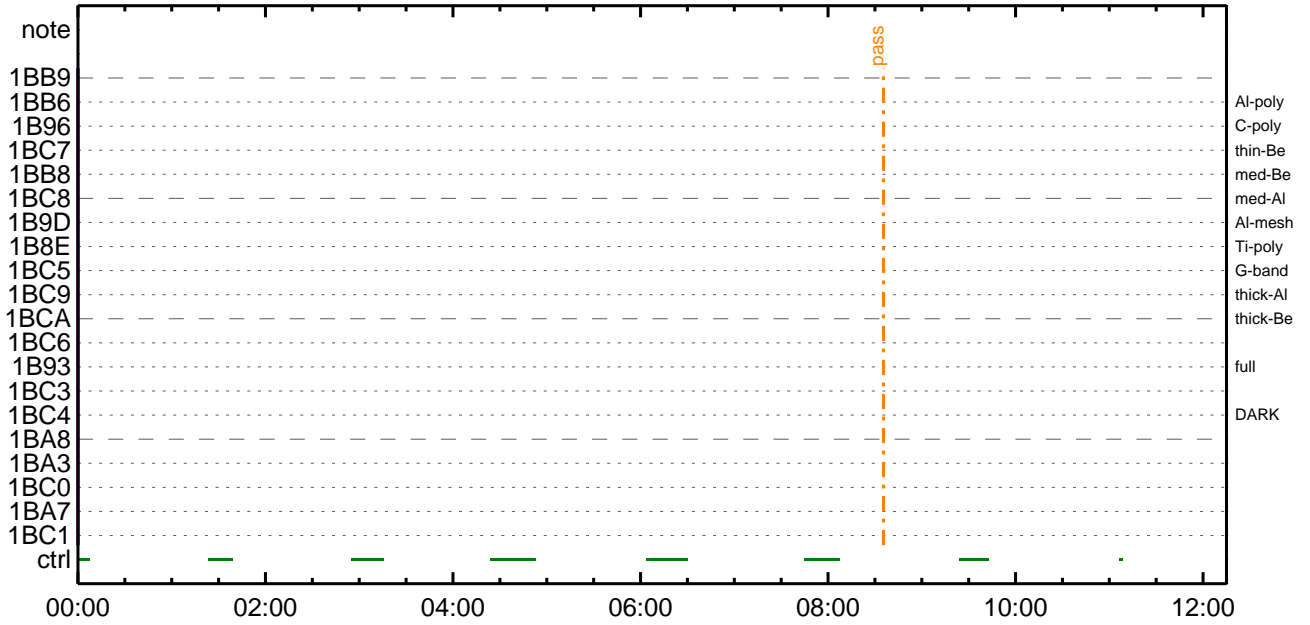
CMDI #0007 2017/09/23



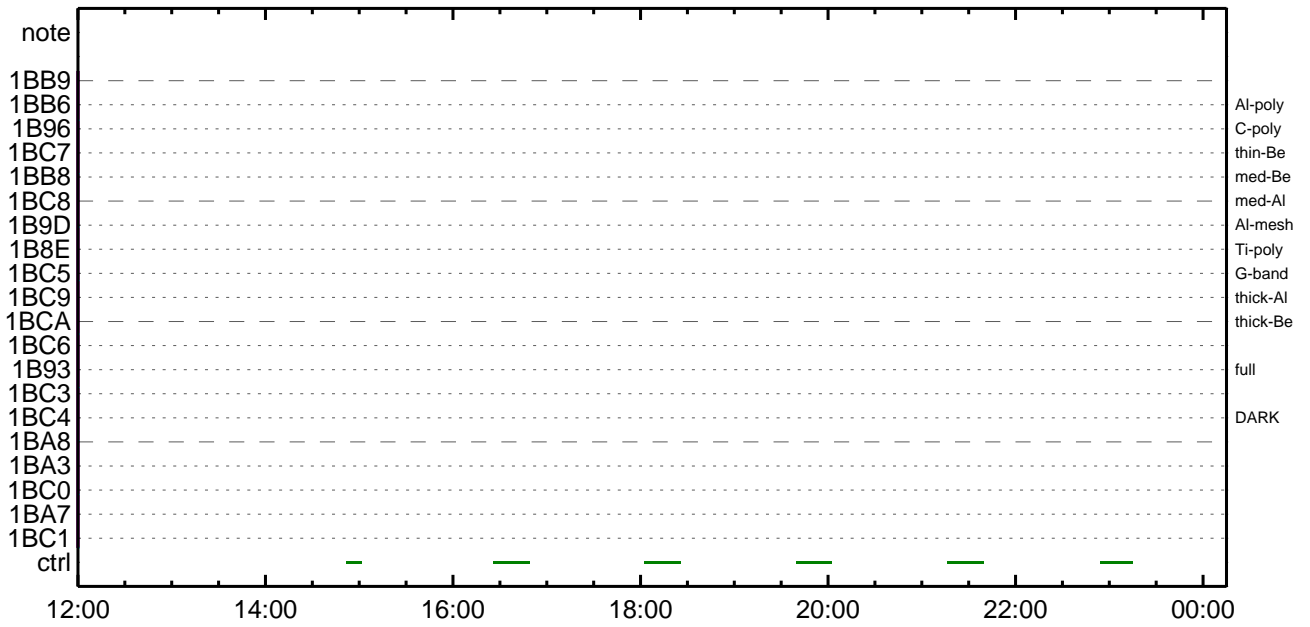
CMDI #0007 2017/09/23



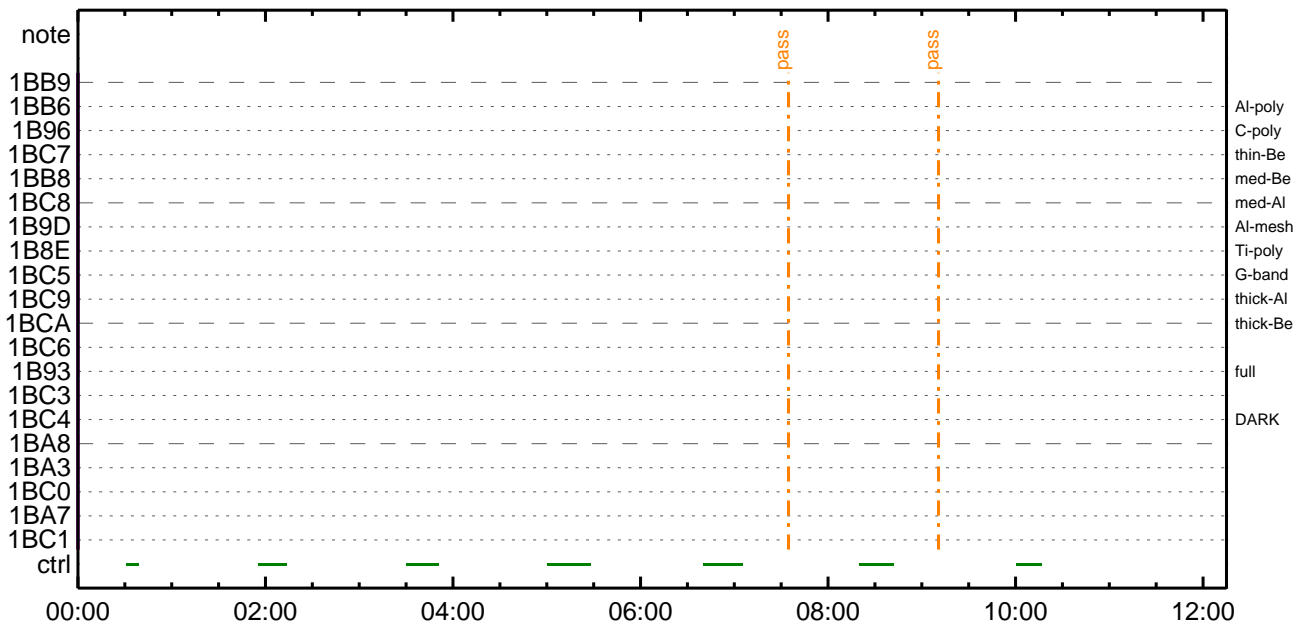
CMDI #0007 2017/09/24



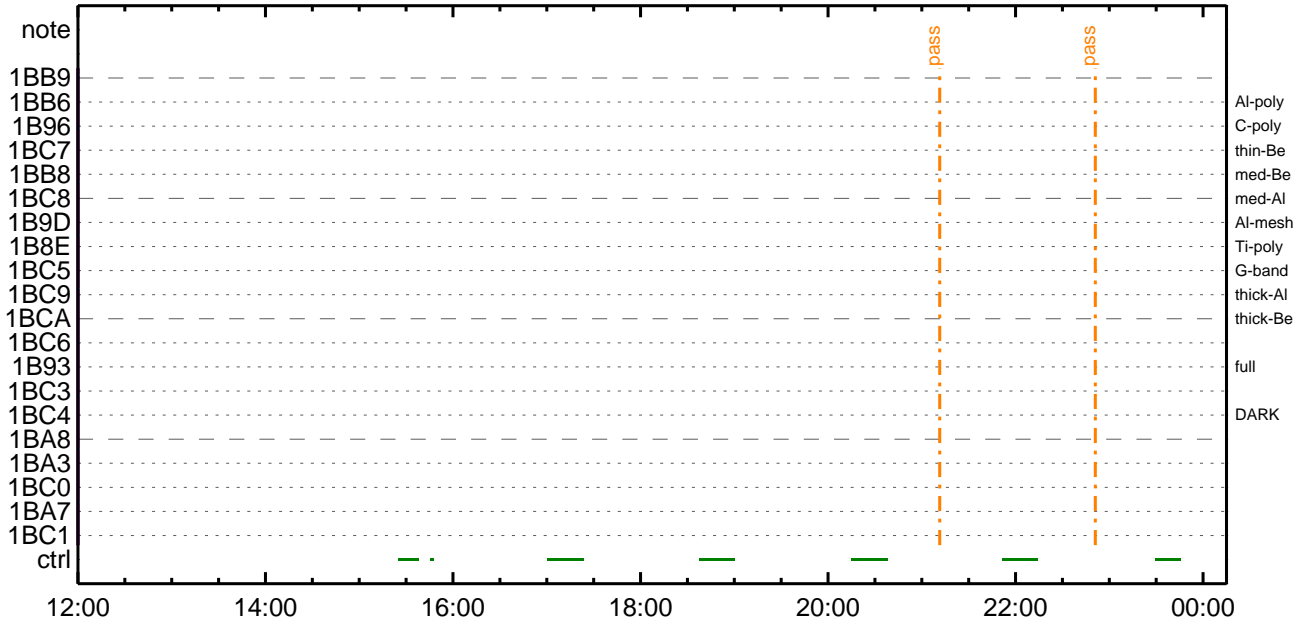
CMDI #0007 2017/09/24



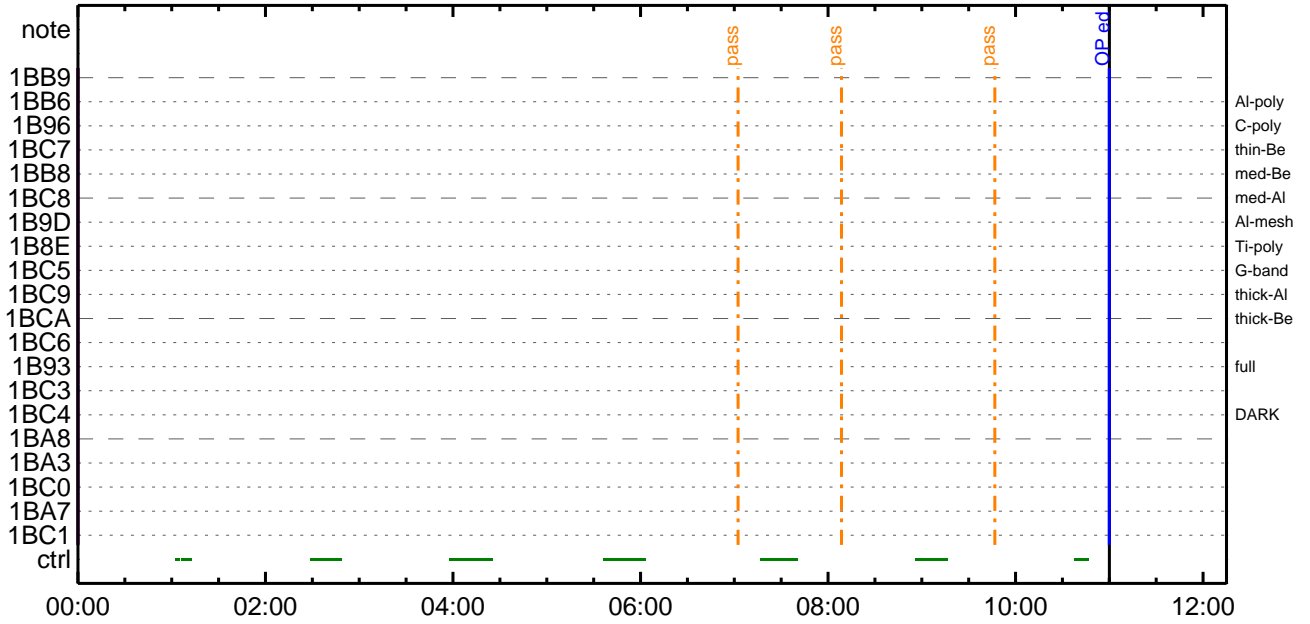
CMDI #0007 2017/09/25



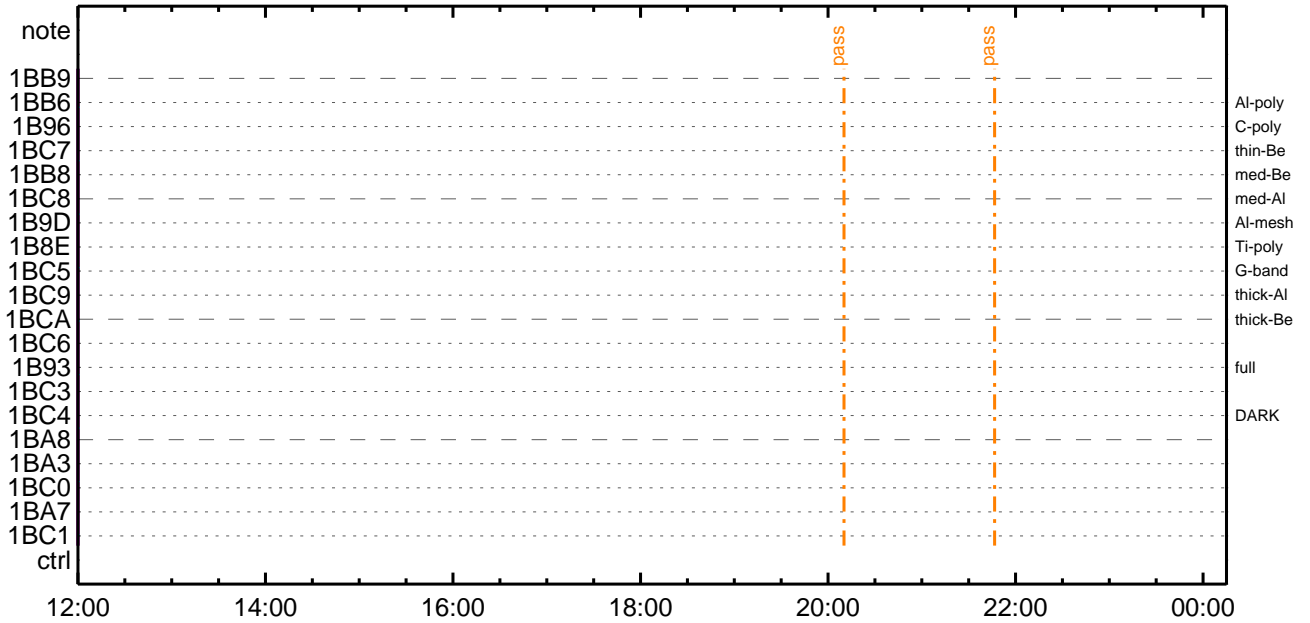
CMDI #0007 2017/09/25



CMDI #0007 2017/09/26



CMDI #0007 2017/09/26



(a) Spacecraft Operation Procedure (real-commands)

```
main-871 2017-09-21 12:38:32 194 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY`¼Ã»Û;ä
0005 C.
0006 C. YÀYB;¼Y³YFÝÖYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èó¿òÁá•μ°È»Í×ÁÇóÍYçYÁY×Yí;¼YÉ;ÈÈèμ•íÉ;ÈóÈ¼°ÇÔá•ó¿¼l¹çóÍ;çÁ®, ùó¹áèóóçÁ+¿®á•óÈóóó³òÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYí;¼YÉ;|YÁYöYx
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGYí;¼YÉ;ä
0019 . S. OP op-871:OP
0020 ()
0021 . S. OG og-871:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPÍ°èYÁYöYx;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. YÀYöYx¼ªª î»òð³ÍÇ§
0041 C.      çç[HK1_DMP_CHK_FLG]                    EQ     NON
0042 . C. RAM ID=NMOGóÍ¼È¹ç•è²ÍOKóð³ÍÇ§
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. YÀYöYx¼ªª î»òð³ÍÇ§
0060 C.      çç[HK1_DMP_CHK_FLG]                    EQ     NON
0061 . C. RAM ID=NMOGóÍ¼È¹ç•è²ÍOKóð³ÍÇ§
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. YÀYöYx¼ªª î»òð³ÍÇ§
0079 C.      çç[HK1_DMP_CHK_FLG]                    EQ     NON
0080 . C. RAM ID=NMOG,RAM ID=OPóÍ¼È¹ç•è²ÍOKóð³ÍÇ§
0081 C.
0082 . C. ***** øÈ²¼óí¼Ã´¶¹º¼óÈÈ-óºÁ+¿® (¼áμ-YÀYöYx¼¾çóðÁÓÃæç¼ªªóº¼¼í¹çóçá) *****
0083 C. DHUYá;¼YÉ;ÈY¼, Yí;¼YÉ;ÈóóÍáó¹
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 UPLOADó-Á+¿®NGóÍ¼¹ç;ç°È²¼óí¼TI-CMDÁ+¿®óí¼Á¹Ôá•óÈóóó³òÈ;f
```



```

0096 C.                0p0z;çSET0EDUMP0IÆ±°iYÑY¹0Ç¹00|0³0E;E
0097 C.
0098 . C. TIY³YF¥6YÉ00dADi¿(UT)
0099 +. TI 2017-09-21 09:54:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0102 C.
0103 +. TI 2017-09-21 09:54:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0106 C.
0107 +. TI 2017-09-21 09:54:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0110 C.
0111 +. TI 2017-09-21 09:58:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0114 C.
0115 C. °E²¼0IÄè%îíÑ0IYÁY§YÄY-¹àÛ
0116 C.                çç[HK1_TI_CMD_ENA/DIS]              EQ        ENA
0117 C.                çç[HK1_TI_CMD_NUM]                EQ        4
0118 C.                çç[HK1_NEXT_EXEC_PIM]              EQ        DHU
0119 C.                çç[HK1_NEXT_EXEC_DC]               EQ        0xB3
0120 C.
0121 . C. *****
0122 C. TIÎî°èYÄYÓY×
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.                çç[HK1_DMP_TOP_ADRS_1]              EQ        07
0129 C.                çç[HK1_DMP_TOP_ADRS_0]              EQ        2B
0130 C.                çç[HK1_DMP_BLOCK_NUM]               EQ        3
0131 C.                çç[HK1_DMP_REPEAT_NUM]              EQ        0
0132 C.                çç[HK1_DMA_DMP_PIM]                EQ        DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC (07 0b f8)
0135 C.                çç[HK1_PKT_FORM_NO]                 EQ        7
0136 C.                çç[HK1_PKT_GEN_TIME]                EQ        0.25 s
0137 C.                çç[HK1_S_TLM_BIT_RATE]              EQ        32k
0138 C.                çç[HK1_X_TLM_BIT_RATE]              EQ        4M
0139 C.                çç[HK1_DMP_CHK_FLG]                 EQ        EXEC
0140 C.
0141 . C. YÄYÓY×½ªî»0ð³îÇ§
0142 C.                çç[HK1_DMP_CHK_FLG]                 EQ        NON
0143 C.
0144 . C. RAM ID=TI_TBL0I%È¹ç•è²IOK0ð³îÇ§
0145 C.
0146 . C. DHUYâ;¼YÉ;È¼Y½,¥î;¼YÈ;Ë0ðîã0¹
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC (02 0a f8)
0149 C.                çç[HK1_PKT_FORM_NO]                 EQ        2
0150 C.                çç[HK1_PKT_GEN_TIME]                EQ        0.5S
0151 C.                çç[HK1_S_TLM_BIT_RATE]              EQ        32K
0152 C.                çç[HK1_X_TLM_BIT_RATE]              EQ        4M
0153 C.
0154 . C. Stop EIS observation and temporarily disable EIS mode changes
0155 C.
0156 C.
0157 C. ***** Start EIS operation (TI set) *****
0158 C. Execute, after the success of OP upload.
0159 C. Set EIS TI-commands
0160 +. TI 2017-09-21 09:58:30.0
0161 DC 07-FC EIS_MODE_MANU
0162 BC (21 02)
0163 +. TI 2017-09-21 09:58:40.0
0164 DC 07-FC EIS_MODE_CHG_DIS
0165 BC (22)
0166 . C.                [ ] [HK1_TI_CMD_NUM]                EQ        2 COUNTUP
0167 C. ***** End EIS operation (TI set) *****
0168 C.
0169 C.
0170 C.
0171 C. ***** XRT START *****
0172 C. Execute, after the success of OP upload.
0173 +. TI 2017-09-21 09:58:00.0
0174 DC 07-F0 MDP_XRT_MODE_STBY
0175 BC (c3)
0176 . C.                [ ] [HK1_TI_CMD_NUM]                EQ        1COUNTUP
0177 C.
0178 C. ***** XRT END *****
0179 C.
0180 . C. ***** MDP ´úÃî0I»0¼Y0EÄ00¹0èDCBC•x²è *****
0181 C. (%ã°îYÓYÄYÉYF¥YÄYÇYè0E¼00¼Ä»Û0¹0è)
0182 . S. DC-BC dcbc-402:DCBC
0183 (MDP_known_event)
0184 C.
0185 C.
0186 . C. ***** YD¥¹•î Daily±¿îÑ0E'00¹0èDCBC•x²è *****
0187 . S. DC-BC dcbc-153:DCBC
0188 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0189 C.
0190 C.
0191 . C. ;ãLOS¥ÁY§YÄY-¼Ä»Û;ä
0192 C.
0193 . C. ***** LOS *****

```







(a) Spacecraft Operation Procedure (real-commands)

```
main-873 2017-09-21 12:38:32 102 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YFÿÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èò¿òÀò•µ°È»Í×ÁÇòÍYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈòÈ¼°ÇÒò•ò¿¼í¹çòÍ;çÀ®, ùò¹òèòÈòçÁ+¿®ò•òÈòòò³òÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 +. DC 07-F0 MDP_XRT_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 06 06)
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 08 08)
0050 +. DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 09 80 80 20 20)
0052 +. DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0a 80 80 20 08)
0054 +. DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0b 80 80 08 20)
0056 +. DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 0f 80 80 06 06)
0058 +. DC 07-F0 MDP_XRT_ROI_SET
0059 BC (cd 10 80 80 08 08)
0060 +. DC 07-F0 MDP_XRT_FLD_ENA
0061 BC (d8)
0062 +. DC 07-F0 MDP_XRT_FLRCTRL_ENA
0063 BC (c8)
0064 +. DC 07-F0 MDP_XRT_ARS_DIS
0065 BC (d5)
0066 +. DC 07-F0 MDP_XRT_AEC_RESET
0067 BC (d0)
0068 +. DC 07-F0 MDP_XRT_FLD_RESET
0069 BC (da)
0070 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0071 BC (c4 09)
0072 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0073 BC (c5 0d)
0074 . C. ----- Success Verify ? OK / NG ____
0075 C.
0076 C.
0077 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0078 C.
0079 +. DC 07-F0 MDP_XRT_MODE_OBSV
0080 BC (c2)
0081 +. TI 2017-09-21 09:58:02.0
0082 DC 07-F0 MDP_XRT_MODE_OBSV
0083 BC (c2)
0084 . C. ----- Success Verify ? OK / NG ____
0085 C.
0086 C. ***** XRT END *****
0087 C.
0088 . C. ***** MDP 'úÁíòí»ò¼YòÉÁò¹òèDCBC•x²è *****
0089 C. (%á°íYÓYÁYÉYB;¼Y³YFÿÓYÉÁ+¿®YèòÈ¼°çÁ»Ûò¹òè)
0090 . S. DC-BC dcbc-402:DCBC
0091 (MDP_known_event)
0092 C.
0093 C.
0094 . C. ***** YDÿ¹.í Daily+¿íÑòÈ´Øò¹òèDCBC•x²è *****
0095 . S. DC-BC dcbc-153:DCBC
```

```
0096 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0097 C.
0098 C.
0099 . C. ;äLOSŸÁŸSŸÄŸ-¼Ä»Û;ä
0100 C.
0101 . C. ***** LOS *****
0102 C.
```

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

```

2017/09/21 10:08:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 10:08:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 10:08:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION      4 07-F8 22 fe 97 00
2017/09/21 10:09:00.0 AOCS_Ore-point_Start_1_OG [0x097]
                        AOCU_NM                  5 02-76 04 03 33 01 db
2017/09/21 10:09:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA        1 07-F0 d8
2017/09/21 10:09:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA     1 07-F0 c8
2017/09/21 10:09:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET       1 07-F0 d0
2017/09/21 10:09:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS        1 07-F0 d5
2017/09/21 10:09:26.0 XRT_FLD_RESET_433_OG [0x1b1]
                        MDP_XRT_FLD_RESET      1 07-F0 da
2017/09/21 10:11:56.0 XRT_QT_PROG_SET_438_OG [0x1b6]
                        MDP_XRT_QT_PROG_SET    2 07-F0 c4 09
2017/09/21 10:11:58.0 XRT_FL_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_FL_PROG_SET    2 07-F0 c5 0d
2017/09/21 10:12:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO      1 07-F0 c0
2017/09/21 12:59:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 12:59:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 12:59:58.0 XRT_FOCUS_POSITION_403_OG [0x193]
                        XRT_FOCUS_POSITION      4 07-F8 22 ff aa 00
2017/09/21 13:00:00.0 AOCS_Ore-point_Start_2_OG [0x098]
                        AOCU_NM                  5 02-76 02 00 00 00 00
2017/09/21 13:00:18.0 XRT_FLD_ENA_421_OG [0x1a5]
                        MDP_XRT_FLD_ENA        1 07-F0 d8
2017/09/21 13:02:48.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA     1 07-F0 c8
2017/09/21 13:02:50.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET       1 07-F0 d0
2017/09/21 13:02:52.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS        1 07-F0 d5
2017/09/21 13:02:54.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET      1 07-F0 da
2017/09/21 13:02:56.0 XRT_QT_PROG_SET_434_OG [0x1b2]
                        MDP_XRT_QT_PROG_SET    2 07-F0 c4 12
2017/09/21 13:02:58.0 XRT_FL_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_FL_PROG_SET    2 07-F0 c5 0d
2017/09/21 13:03:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO      1 07-F0 c0
2017/09/21 14:44:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 14:44:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 14:44:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET      1 07-F0 da
2017/09/21 14:44:06.0 XRT_PREFLR_STRT_449_OG [0x1c1]
                        MDP_XRT_PREFLR_STRT    1 07-F0 e8
2017/09/21 14:47:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP    1 07-F0 e9
2017/09/21 14:53:00.0 XRT_Custom_430_OG [0x1ae]
2017/09/21 14:54:00.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO      1 07-F0 c0
2017/09/21 16:18:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 16:18:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 16:18:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET      1 07-F0 da
2017/09/21 16:18:06.0 XRT_PREFLR_STRT_449_OG [0x1c1]
                        MDP_XRT_PREFLR_STRT    1 07-F0 e8
2017/09/21 16:21:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP    1 07-F0 e9
2017/09/21 16:41:30.0 XRT_Custom_430_OG [0x1ae]
2017/09/21 16:42:30.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO      1 07-F0 c0
2017/09/21 17:54:30.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 17:54:32.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 17:54:34.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET      1 07-F0 da
2017/09/21 17:54:36.0 XRT_PREFLR_STRT_449_OG [0x1c1]
                        MDP_XRT_PREFLR_STRT    1 07-F0 e8
2017/09/21 17:57:44.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP    1 07-F0 e9
2017/09/21 18:17:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 18:17:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU      1 07-F0 c1
2017/09/21 18:17:58.0 XRT_FOCUS_POSITION_403_OG [0x193]
                        XRT_FOCUS_POSITION      4 07-F8 22 ff aa 00
2017/09/21 18:18:00.0 AOCS_Ore-point_Start_3_OG [0x099]

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2017/09/21	18:18:18.0	XRT_FLD_DIS_425_ OG [0x1a9]	AOCU_NM	5	02-76	00	00	00	00	00
			MDP_XRT_FLD_DIS	1	07-F0		d9			
2017/09/21	18:20:54.0	XRT_FLRCTRL_DIS_405_ OG [0x195]		1	07-F0		c9			
			MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2017/09/21	18:20:56.0	XRT_ARS_DIS_423_ OG [0x1a7]		1	07-F0		d5			
			MDP_XRT_ARS_DIS	1	07-F0		d5			
2017/09/21	18:20:58.0	XRT_QT_PROG_SET_426_ OG [0x1aa]		2	07-F0		c4		05	
			MDP_XRT_QT_PROG_SET	2	07-F0		c4		05	
2017/09/21	18:21:00.0	XRT_CTRL_AUTO_408_ OG [0x198]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/21	18:27:54.0	XRT_CTRL_MANU_402_ OG [0x192]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	18:27:56.0	XRT_CTRL_MANU_402_ OG [0x192]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	18:27:58.0	XRT_FOCUS_POSITION_410_ OG [0x19a]		4	07-F8	22	fe	97	00	
			XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2017/09/21	18:28:00.0	AOCs_Or_e-point_Start_4_ OG [0x09a]	AOCU_NM	5	02-76	01	00	00	00	00
			MDP_XRT_FLD_ENA	1	07-F0		d8			
2017/09/21	18:28:18.0	XRT_FLD_ENA_411_ OG [0x19b]		1	07-F0		d8			
			MDP_XRT_FLD_ENA	1	07-F0		d8			
2017/09/21	18:28:20.0	XRT_FLRCTRL_ENA_412_ OG [0x19c]		1	07-F0		c8			
			MDP_XRT_FLRCTRL_ENA	1	07-F0		c8			
2017/09/21	18:28:22.0	XRT_AEC_RESET_448_ OG [0x1c0]		1	07-F0		d0			
			MDP_XRT_AEC_RESET	1	07-F0		d0			
2017/09/21	18:28:24.0	XRT_ARS_DIS_423_ OG [0x1a7]		1	07-F0		d5			
			MDP_XRT_ARS_DIS	1	07-F0		d5			
2017/09/21	18:28:26.0	XRT_FLD_RESET_433_ OG [0x1b1]		1	07-F0		da			
			MDP_XRT_FLD_RESET	1	07-F0		da			
2017/09/21	18:30:56.0	XRT_QT_PROG_SET_446_ OG [0x1be]		2	07-F0		c4		10	
			MDP_XRT_QT_PROG_SET	2	07-F0		c4		10	
2017/09/21	18:30:58.0	XRT_FL_PROG_SET_440_ OG [0x1b8]		2	07-F0		c5		0d	
			MDP_XRT_FL_PROG_SET	2	07-F0		c5		0d	
2017/09/21	18:31:00.0	XRT_CTRL_AUTO_408_ OG [0x198]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/21	19:31:30.0	XRT_CTRL_MANU_400_ OG [0x190]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	19:31:32.0	XRT_CTRL_MANU_402_ OG [0x192]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	19:31:34.0	XRT_FLD_RESET_415_ OG [0x19f]		1	07-F0		da			
			MDP_XRT_FLD_RESET	1	07-F0		da			
2017/09/21	19:31:36.0	XRT_PREFLR_STRT_449_ OG [0x1c1]		1	07-F0		e8			
			MDP_XRT_PREFLR_STRT	1	07-F0		e8			
2017/09/21	19:34:44.0	XRT_PREFLR_STOP_419_ OG [0x1a3]		1	07-F0		e9			
			MDP_XRT_PREFLR_STOP	1	07-F0		e9			
2017/09/21	19:54:30.0	XRT_Custom_430_ OG [0x1ae]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/21	19:55:30.0	XRT_CTRL_AUTO_424_ OG [0x1a8]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/21	21:08:30.0	XRT_CTRL_MANU_400_ OG [0x190]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	21:08:32.0	XRT_CTRL_MANU_402_ OG [0x192]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	21:08:34.0	XRT_FLD_RESET_415_ OG [0x19f]		1	07-F0		da			
			MDP_XRT_FLD_RESET	1	07-F0		da			
2017/09/21	21:08:36.0	XRT_PREFLR_STRT_449_ OG [0x1c1]		1	07-F0		e8			
			MDP_XRT_PREFLR_STRT	1	07-F0		e8			
2017/09/21	21:11:44.0	XRT_PREFLR_STOP_419_ OG [0x1a3]		1	07-F0		e9			
			MDP_XRT_PREFLR_STOP	1	07-F0		e9			
2017/09/21	21:32:00.0	XRT_Custom_430_ OG [0x1ae]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/21	21:33:00.0	XRT_CTRL_AUTO_424_ OG [0x1a8]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/21	22:46:00.0	XRT_CTRL_MANU_400_ OG [0x190]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	22:46:02.0	XRT_CTRL_MANU_402_ OG [0x192]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/21	22:46:04.0	XRT_FLD_RESET_415_ OG [0x19f]		1	07-F0		da			
			MDP_XRT_FLD_RESET	1	07-F0		da			
2017/09/21	22:46:06.0	XRT_PREFLR_STRT_449_ OG [0x1c1]		1	07-F0		e8			
			MDP_XRT_PREFLR_STRT	1	07-F0		e8			
2017/09/21	22:49:14.0	XRT_PREFLR_STOP_419_ OG [0x1a3]		1	07-F0		e9			
			MDP_XRT_PREFLR_STOP	1	07-F0		e9			
2017/09/21	23:07:00.0	XRT_Custom_430_ OG [0x1ae]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/21	23:08:00.0	XRT_CTRL_AUTO_424_ OG [0x1a8]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/22	00:23:30.0	XRT_CTRL_MANU_400_ OG [0x190]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/22	00:23:32.0	XRT_CTRL_MANU_402_ OG [0x192]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/22	00:23:34.0	XRT_FLD_RESET_415_ OG [0x19f]		1	07-F0		da			
			MDP_XRT_FLD_RESET	1	07-F0		da			
2017/09/22	00:23:36.0	XRT_PREFLR_STRT_449_ OG [0x1c1]		1	07-F0		e8			
			MDP_XRT_PREFLR_STRT	1	07-F0		e8			
2017/09/22	00:26:44.0	XRT_PREFLR_STOP_419_ OG [0x1a3]		1	07-F0		e9			
			MDP_XRT_PREFLR_STOP	1	07-F0		e9			
2017/09/22	00:32:00.0	XRT_Custom_430_ OG [0x1ae]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/22	00:33:00.0	XRT_CTRL_AUTO_424_ OG [0x1a8]		1	07-F0		c0			
			MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2017/09/22	01:47:30.0	XRT_CTRL_MANU_400_ OG [0x190]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/22	01:47:32.0	XRT_CTRL_MANU_402_ OG [0x192]		1	07-F0		c1			
			MDP_XRT_CTRL_MANU	1	07-F0		c1			
2017/09/22	01:47:34.0	XRT_FLD_RESET_415_ OG [0x19f]		1	07-F0		da			
			MDP_XRT_FLD_RESET	1	07-F0		da			



2017/09/22	01:47:36.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2017/09/22	01:50:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2017/09/22	02:06:00.0	XRT_Custom_430_OG [0x1ae]				
2017/09/22	02:07:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2017/09/22	03:22:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	03:22:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	03:22:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2017/09/22	03:22:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2017/09/22	03:25:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2017/09/22	03:43:00.0	XRT_Custom_430_OG [0x1ae]				
2017/09/22	03:44:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2017/09/22	04:52:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	04:52:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	04:52:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2017/09/22	04:52:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2017/09/22	04:55:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2017/09/22	05:20:00.0	XRT_Custom_430_OG [0x1ae]				
2017/09/22	05:21:00.5	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2017/09/22	06:02:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	06:02:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	06:02:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2017/09/22	06:03:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00 00 00 00 00
2017/09/22	06:03:18.0	XRT_FLD_DIS_425_OG [0x1a9]	MDP_XRT_FLD_DIS	1	07-F0	d9
2017/09/22	06:05:54.0	XRT_FLRCTRL_DIS_405_OG [0x195]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2017/09/22	06:05:56.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2017/09/22	06:05:58.0	XRT_QT_PROG_SET_437_OG [0x1b5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 02
2017/09/22	06:06:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2017/09/22	06:12:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	06:12:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	06:12:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2017/09/22	06:13:00.0	AOCS_ORe-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	01 00 00 00 00
2017/09/22	06:13:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2017/09/22	06:13:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2017/09/22	06:13:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2017/09/22	06:13:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2017/09/22	06:13:26.0	XRT_FLD_RESET_433_OG [0x1b1]	MDP_XRT_FLD_RESET	1	07-F0	da
2017/09/22	06:15:56.0	XRT_QT_PROG_SET_404_OG [0x194]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 06
2017/09/22	06:15:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2017/09/22	06:16:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2017/09/22	06:32:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	06:32:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	06:32:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2017/09/22	06:32:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2017/09/22	06:35:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2017/09/22	06:57:30.0	XRT_Custom_430_OG [0x1ae]				
2017/09/22	06:58:30.5	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2017/09/22	08:12:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	08:12:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2017/09/22	08:12:34.0	XRT_FLD_RESET_415_OG [0x19f]				

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2017/09/22	08:12:36.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_FLD_RESET	1	07-F0	da				
			MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/22	08:15:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/22	08:34:30.0	XRT_Custom_430_OG [0x1ae]								
2017/09/22	08:35:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/22	08:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	08:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	08:59:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2017/09/22	09:00:00.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	04	03	33	01	db
2017/09/22	09:00:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8				
2017/09/22	09:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2017/09/22	09:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0				
2017/09/22	09:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2017/09/22	09:00:26.0	XRT_FLD_RESET_433_OG [0x1b1]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/22	09:02:56.0	XRT_QT_PROG_SET_438_OG [0x1b6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	09			
2017/09/22	09:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d			
2017/09/22	09:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/22	12:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	12:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	12:59:58.0	XRT_FOCUS_POSITION_435_OG [0x1b3]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2017/09/22	13:00:00.0	AOCS_Ore-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	00	b3	34	01	db
2017/09/22	13:00:18.0	XRT_FLD_ENA_418_OG [0x1a2]	MDP_XRT_FLD_ENA	1	07-F0	d8				
2017/09/22	13:00:20.0	XRT_FLRCTRL_ENA_442_OG [0x1ba]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2017/09/22	13:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0				
2017/09/22	13:00:24.0	XRT_ARS_DIS_445_OG [0x1bd]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2017/09/22	13:00:26.0	XRT_FLD_RESET_443_OG [0x1bb]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/22	13:02:56.0	XRT_QT_PROG_SET_409_OG [0x199]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	08			
2017/09/22	13:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d			
2017/09/22	13:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/22	15:17:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	15:17:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	15:17:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/22	15:17:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/22	15:20:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/22	15:30:00.0	XRT_Custom_430_OG [0x1ae]								
2017/09/22	15:31:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/22	16:52:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	16:52:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	16:52:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/22	16:52:36.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/22	16:55:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/22	17:16:00.0	XRT_Custom_430_OG [0x1ae]								
2017/09/22	17:17:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/22	18:29:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	18:29:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/22	18:29:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/22	18:29:36.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/22	18:32:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/22	18:59:54.0	XRT_CTRL_MANU_402_OG [0x192]								

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2017/09/22	18:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	18:59:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	19:00:00.0	AOCS_Ore-point_Start_3_OG [0x099]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa 00
2017/09/22	19:00:18.0	XRT_FLD_DIS_425_OG [0x1a9]	AOCU_NM	5	02-76	00	00	00 00 00
2017/09/22	19:02:54.0	XRT_FLRCTRL_DIS_405_OG [0x195]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2017/09/22	19:02:56.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2017/09/22	19:02:58.0	XRT_QT_PROG_SET_437_OG [0x1b5]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2017/09/22	19:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	02	
2017/09/22	19:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2017/09/22	19:09:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	19:09:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	19:10:00.5	AOCS_Ore-point_Start_2_OG [0x098]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa 00
2017/09/22	19:10:18.0	XRT_FLD_ENA_421_OG [0x1a5]	AOCU_NM	5	02-76	02	00	00 00 00
2017/09/22	19:12:48.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8		
2017/09/22	19:12:50.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2017/09/22	19:12:52.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0		
2017/09/22	19:12:54.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2017/09/22	19:12:56.0	XRT_QT_PROG_SET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da		
2017/09/22	19:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	12	
2017/09/22	19:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d	
2017/09/22	20:06:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2017/09/22	20:06:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	20:06:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	20:06:36.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_FLD_RESET	1	07-F0	da		
2017/09/22	20:09:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2017/09/22	20:30:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2017/09/22	20:31:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	XRT_Custom_430_OG [0x1ae]					
2017/09/22	21:44:00.0	XRT_CTRL_MANU_400_OG [0x190]	XRT_CTRL_AUTO_424_OG [0x1a8]					
2017/09/22	21:44:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2017/09/22	21:44:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	21:44:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	21:47:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2017/09/22	22:06:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2017/09/22	22:07:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2017/09/22	23:21:00.0	XRT_CTRL_MANU_400_OG [0x190]	XRT_CTRL_AUTO_424_OG [0x1a8]					
2017/09/22	23:21:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2017/09/22	23:21:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	23:21:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/22	23:24:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2017/09/22	23:39:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2017/09/22	23:40:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2017/09/23	00:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	XRT_Custom_430_OG [0x1ae]					
2017/09/23	00:09:56.0	XRT_CTRL_MANU_402_OG [0x192]	XRT_CTRL_AUTO_424_OG [0x1a8]					
2017/09/23	00:09:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2017/09/23	00:10:00.0	AOCS_Ore-point_Start_4_OG [0x09a]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/23	00:10:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2017/09/23	00:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97 00
2017/09/23	00:10:22.0	XRT_AEC_RESET_448_OG [0x1c0]	AOCU_NM	5	02-76	01	00	00 00 00
			XRT_FOCUS_POSITION	4	07-F8	22	ff	aa 00
			AOCU_NM	5	02-76	02	00	00 00 00
			MDP_XRT_FLD_ENA	1	07-F0	d8		
			MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		

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2017/09/23	00:10:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0				
			MDP_XRT_ARS_DIS	1	07-F0	d5				
2017/09/23	00:10:26.0	XRT_FLD_RESET_433_OG [0x1b1]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	00:12:56.0	XRT_QT_PROG_SET_404_OG [0x194]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	06			
2017/09/23	00:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d			
2017/09/23	00:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/23	02:21:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	02:21:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	02:21:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	02:21:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/23	02:24:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/23	02:40:30.0	XRT_Custom_430_OG [0x1ae]								
2017/09/23	02:41:30.5	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/23	03:52:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	03:52:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	03:52:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	03:52:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/23	03:55:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/23	04:18:00.0	XRT_Custom_430_OG [0x1ae]								
2017/09/23	04:19:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/23	05:28:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	05:28:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	05:28:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	05:28:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/23	05:31:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/23	06:04:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	06:04:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	06:04:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2017/09/23	06:05:00.0	AOCS_Ore-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00	00	00	00	00
2017/09/23	06:05:18.0	XRT_FLD_DIS_425_OG [0x1a9]	MDP_XRT_FLD_DIS	1	07-F0	d9				
2017/09/23	06:07:54.0	XRT_FLRCTRL_DIS_405_OG [0x195]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2017/09/23	06:07:56.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2017/09/23	06:07:58.0	XRT_QT_PROG_SET_437_OG [0x1b5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	02			
2017/09/23	06:08:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/23	06:14:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	06:14:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	06:14:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2017/09/23	06:15:00.0	AOCS_Ore-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	01	00	00	00	00
2017/09/23	06:15:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8				
2017/09/23	06:15:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2017/09/23	06:15:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0				
2017/09/23	06:15:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5				
2017/09/23	06:15:26.0	XRT_FLD_RESET_433_OG [0x1b1]	MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	06:17:56.0	XRT_QT_PROG_SET_404_OG [0x194]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	06			
2017/09/23	06:17:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d			
2017/09/23	06:18:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/23	07:08:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	07:08:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1				

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2017/09/23	07:08:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	07:08:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/23	07:11:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/23	07:32:30.0	XRT_Custom_430_OG [0x1ae]							
2017/09/23	07:33:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/23	08:48:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	08:48:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	08:48:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	08:48:06.0	XRT_PREFLR_STRT_449_OG [0x1c1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2017/09/23	08:51:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2017/09/23	08:59:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	08:59:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	08:59:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2017/09/23	09:00:00.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 03 33 01 db				
2017/09/23	09:00:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2017/09/23	09:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2017/09/23	09:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2017/09/23	09:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2017/09/23	09:00:26.0	XRT_FLD_RESET_433_OG [0x1b1]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2017/09/23	09:02:56.0	XRT_QT_PROG_SET_438_OG [0x1b6]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 09				
2017/09/23	09:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d				
2017/09/23	09:03:00.5	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2017/09/23	10:45:00.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	10:45:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2017/09/23	11:02:00.0	AOCS_ORe-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				