XRT Timeline to be uploaded on 2018/01/16

Period: 2018/01/16 11:30:00 - 2018/01/24 11:19:00

✲ ✲ ✲ ✲ ✲ **Normal mode** ✲ ✲ ✲ ✲ ✲

XOB #1BD6: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 900s cad (G-band/Leak first)

Term	Pointing (x, y)	Comment
01/16 11:43:00 - 01/16 17:42:54	Track (245.0, -107.3) @ 01/16 11:40:00	# OP start + 10min EIS QS netwrok + coronal BP
01/16 17:56:00 - 01/17 00:29:54	Track (300.3, -108.2) @ 01/16 17:53:00	#EIS sensitivity monitoring

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
PROG= 03 Inf.-time(s)												
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 8-time(s) 900.0sec												
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

XOB #1BD9: Synoptic Q95 2x2 - Al/mesh(64/512/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(45/512/4096) + T

Term	Pointing (x, y)	Comment
01/16 17:46:00 - 01/16 17:52:54	Fixed (0.0, 0.0)	synoptic, shifted -17.0 min
01/17 18:03:00 - 01/17 18:09:54	Fixed (0.0, 0.0)	synoptic
01/18 06:19:30 - 01/18 06:26:24	Fixed (0.0, 0.0)	synoptic, shifted 16.5 min
01/18 18:06:00 - 01/18 18:12:54	Fixed (0.0, 0.0)	synoptic, shifted 3.0 min
01/19 05:51:30 - 01/19 05:58:24	Fixed (0.0, 0.0)	synoptic, shifted -11.5 min
01/19 17:53:30 - 01/19 18:00:24	Fixed (0.0, 0.0)	synoptic, shifted -9.5 min
01/20 06:03:00 - 01/20 06:09:54	Fixed (0.0, 0.0)	synoptic
01/21 06:27:30 - 01/21 06:34:24	Fixed (0.0, 0.0)	synoptic, shifted 24.5 min
01/21 18:13:30 - 01/21 18:20:24	Fixed (0.0, 0.0)	synoptic, shifted 10.5 min
01/22 05:59:30 - 01/22 06:06:24	Fixed (0.0, 0.0)	synoptic, shifted -3.5 min
01/22 18:01:30 - 01/22 18:08:24	Fixed (0.0, 0.0)	synoptic, shifted -1.5 min

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
PROG= 17 1-time(s)												
Subr= 1 1-time(s) 2.0sec												
Seqn= 5 1-time(s) 2.0sec												
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 36 1-time(s) 2.0sec												
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 99 1-time(s) 2.0sec												
Al-poly/Open	Al-poly/Open	close	Safe	Norm	44ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 33 1-time(s) 2.0sec												
thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	22.6s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 23 1-time(s) 2.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

XOB #1AEC: G-Band Alignment with North Pole Q90 2x2 (G-band and VLS=CLS) - 1msec (Al/poly) - 4096msec - 5min cadence - Partial Sun-wNGT

Term	Pointing (x, y)	Comment
01/17 00:45:00 - 01/17 02:29:54	Fixed (0.0, 930.0)	Co-alignment N-pole

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
PROG= 16 1-time(s)												
Subr= 1 24-time(s) 300.0sec												
Seqn= 98 1-time(s) 2.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec
Seqn= 63 1-time(s) 2.0sec												
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec
Seqn= 45 1-time(s) 2.0sec												
Al-poly/Open	med-Be/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x1536 (1024, 768)	Q=95	0	0	2.0sec

XOB #1AED: G-Band Alignment with East limb Q90 2x2 (G-band and VLS=CLS) - 1msec - (Al/poly) 1443msec - 8 min cadence-wNGT

Term	Pointing (x, y)	Comment

01/17 02:45:00 - 01/17 04:29:54 Fixed (-970.0, 0.0) Co-alignment E-limb

PROG= 12 1-time(s)

Subr= 1 15-time(s) 480.0sec

Seqn= 19 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec

Seqn= 43 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec

Seqn= 70 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	2x2	1536x2048 (1280, 1024)	Q=95	0	0	2.0sec

XOB #1B9D: AR (Filter-Ratio with Al/poly and thin-Be) with PFB, 512x512 at 1064 1048, thick-Al context, with G-band (1ms/1ms leak), 72s cad

Term	Pointing (x, y)	Comment
01/17 04:33:00 - 01/17 05:59:54	Track (-182.5, -155.5) @ 01/17 04:30:00	AR observation
01/17 18:13:00 - 01/18 06:16:24	Track (-58.7, -153.3) @ 01/17 18:10:00	AR observation
01/18 18:16:00 - 01/19 05:48:24	Track (160.3, -152.7) @ 01/18 18:13:00	AR observation
01/19 18:03:30 - 01/20 05:59:54	Track (368.4, -156.3) @ 01/19 18:00:30	AR observation
01/20 18:20:00 - 01/21 06:24:24	Track (560.6, -164.4) @ 01/20 18:17:00	AR observation
01/21 06:37:30 - 01/21 17:47:00	Track (646.8, -170.1) @ 01/21 06:34:30	AR observation (HOP 341)
01/21 18:23:30 - 01/22 05:56:24	Track (720.8, -176.5) @ 01/21 18:20:30	AR observation
01/22 06:13:30 - 01/22 09:44:00	Track (785.6, -183.7) @ 01/22 06:06:30	AR observation
01/22 15:03:00 - 01/22 17:58:24	Track (827.8, -189.6) @ 01/22 15:00:00	AR observation
01/22 18:11:30 - 01/23 05:59:54	Track (841.3, -191.8) @ 01/22 18:08:30	AR observation

PROG= 07 Inf.-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 92 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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

Seqn= 71 3-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/thick-Al	Open/thick-Be	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1064, 1048)	Q=98	3	0	2.0sec

Subr= 2 100-time(s) 72.0sec

Seqn= 89 1-time(s) 24.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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

Seqn= 58 1-time(s) 24.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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

Seqn= 48 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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

XOB #1BD8: Synoptic 7 Filter w/ Al-mesh(64/512/2897), Al-poly(45/512/4096), Thin-Be(1024/11571/23142) - Thick-Be(65536), Al-poly+Ti-poly(512/8192), Med

Term	Pointing (x, y)	Comment
01/17 06:03:00 - 01/17 06:09:54	Fixed (0.0, 0.0)	synoptic
01/20 18:10:00 - 01/20 18:16:54	Fixed (0.0, 0.0)	synoptic, shifted 7.0 min
01/23 06:03:00 - 01/23 06:15:00	Fixed (0.0, 0.0)	synoptic

PROG= 18 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 5 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec

Seqn= 36 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 99 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	44ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 33 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	22.6s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 23 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 46 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/thick-Be	Open/thick-Be	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 17 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
med-Al/Open	med-Al/Open	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
med-Al/Open	med-Al/Open	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 25 1-time(s) 2.0sec

Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval

XOB #1BDC: HOP341 - High cadence (10s Al/poly only) 384x384 at 1064 1048

Term	Pointing (x, y)	Comment
01/17 06:13:00 - 01/17 17:59:54	Track (-167.5, -155.2) @ 01/17 06:10:00	AR observation (HOP 341)
01/18 06:29:30 - 01/18 17:39:00	Track (53.4, -152.4) @ 01/18 06:26:30	AR observation (HOP 341)
01/19 06:01:30 - 01/19 17:50:24	Track (264.9, -153.9) @ 01/19 05:58:30	AR observation (HOP 341)
01/20 06:13:00 - 01/20 18:06:54	Track (467.9, -159.8) @ 01/20 06:10:00	AR observation (HOP 341)

PROG= 20 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 20-time(s) 2.0sec**
  - **Seqn= 74 60-time(s) 10.0sec**

Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval

XOB #1BA1: HOP336 1-filter - Al/poly -384x384, 512ms and 4s, 60s-cadence, G-band - 384x384 1ms

Term	Pointing (x, y)	Comment
01/22 10:03:00 - 01/22 14:59:54	Track (-40.2, 740.8) @ 01/22 10:00:00	HOP 336

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 15-time(s) 2.0sec**
  - **Seqn= 68 1-time(s) 60.0sec**

Al-poly/Open	Al-poly/Open	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	500ms	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** ✲ ✲ ✲ ✲ ✲

XOB #1B8E: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512

Term	Pointing (x, y)	Comment
01/16 11:43:00 - 01/16 17:42:54	Track (245.0, -107.3) @ 01/16 11:40:00	# OP start + 10min EIS QS netwrok + coronal BP
01/16 17:56:00 - 01/17 00:29:54	Track (300.3, -108.2) @ 01/16 17:53:00	#EIS sensitivity monitoring
01/17 04:33:00 - 01/17 05:59:54	Track (-182.5, -155.5) @ 01/17 04:30:00	AR observation
01/17 06:13:00 - 01/17 17:59:54	Track (-167.5, -155.2) @ 01/17 06:10:00	AR observation (HOP 341)
01/17 18:13:00 - 01/18 06:16:24	Track (-58.7, -153.3) @ 01/17 18:10:00	AR observation
01/18 06:29:30 - 01/18 17:39:00	Track (53.4, -152.4) @ 01/18 06:26:30	AR observation (HOP 341)
01/18 18:16:00 - 01/19 05:48:24	Track (160.3, -152.7) @ 01/18 18:13:00	AR observation
01/19 06:01:30 - 01/19 17:50:24	Track (264.9, -153.9) @ 01/19 05:58:30	AR observation (HOP 341)
01/19 18:03:30 - 01/20 05:59:54	Track (368.4, -156.3) @ 01/19 18:00:30	AR observation
01/20 06:13:00 - 01/20 18:06:54	Track (467.9, -159.8) @ 01/20 06:10:00	AR observation (HOP 341)
01/20 18:20:00 - 01/21 06:24:24	Track (560.6, -164.4) @ 01/20 18:17:00	AR observation
01/21 06:37:30 - 01/21 17:47:00	Track (646.8, -170.1) @ 01/21 06:34:30	AR observation (HOP 341)
01/21 18:23:30 - 01/22 05:56:24	Track (720.8, -176.5) @ 01/21 18:20:30	AR observation
01/22 06:13:30 - 01/22 09:44:00	Track (785.6, -183.7) @ 01/22 06:06:30	AR observation
01/22 10:03:00 - 01/22 14:59:54	Track (-40.2, 740.8) @ 01/22 10:00:00	HOP 336
01/22 15:03:00 - 01/22 17:58:24	Track (827.8, -189.6) @ 01/22 15:00:00	AR observation
01/22 18:11:30 - 01/23 05:59:54	Track (841.3, -191.8) @ 01/22 18:08:30	AR observation

PROG= 13 30-time(s)

- **Subr= 1 20-time(s) 2.0sec**
  - **Seqn= 11 1-time(s) 2.0sec**

Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec

  - **Seqn=100 1-time(s) 10.0sec**

thin-Be/Open	med-Be/Open	close	Safe	Norm	125ms	Obs	1x1	384x384 (1024, 1024)	Q=95	2	0	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Al	Open/thick-Be	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec

- **Subr= 2 1-time(s) 2.0sec**
  - **Seqn= 10 1-time(s) 2.0sec**

med-Al/Open	med-Al/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec

  - **Seqn= 11 1-time(s) 2.0sec**

Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec

  - **Seqn= 87 1-time(s) 2.0sec**

Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval

✲ ✲ ✲ ✲ ✲ **Active Region Search** ✲ ✲ ✲ ✲ ✲

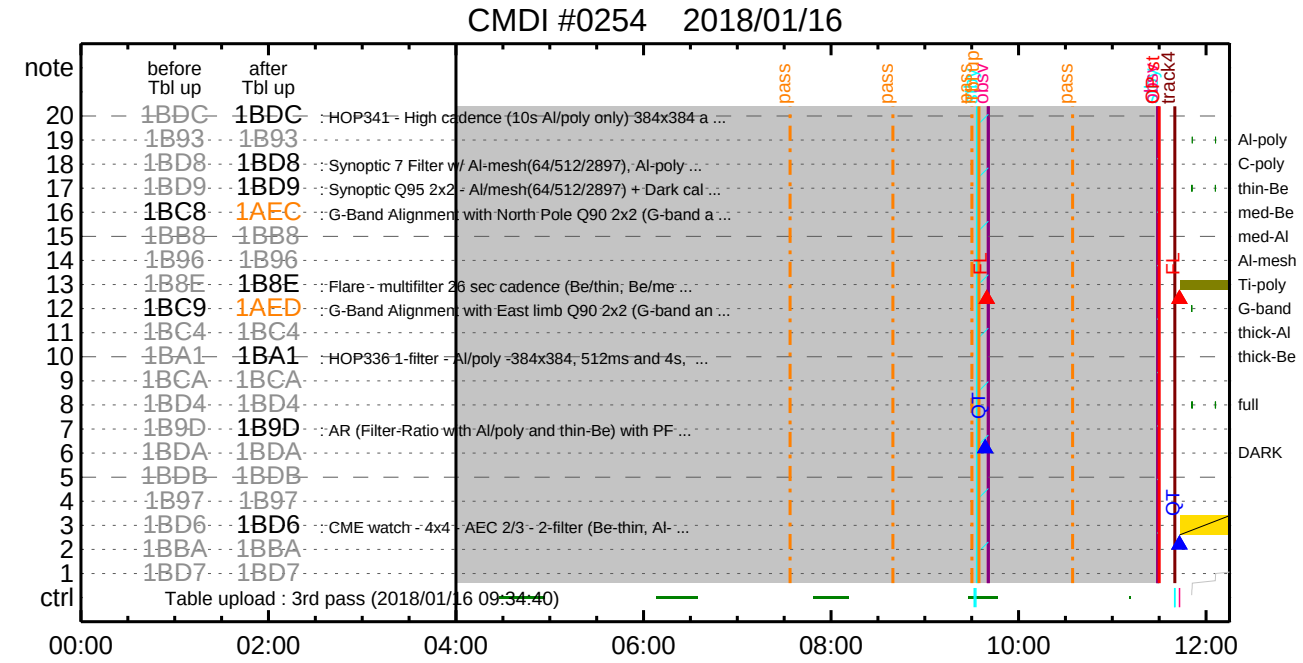
NOT USED

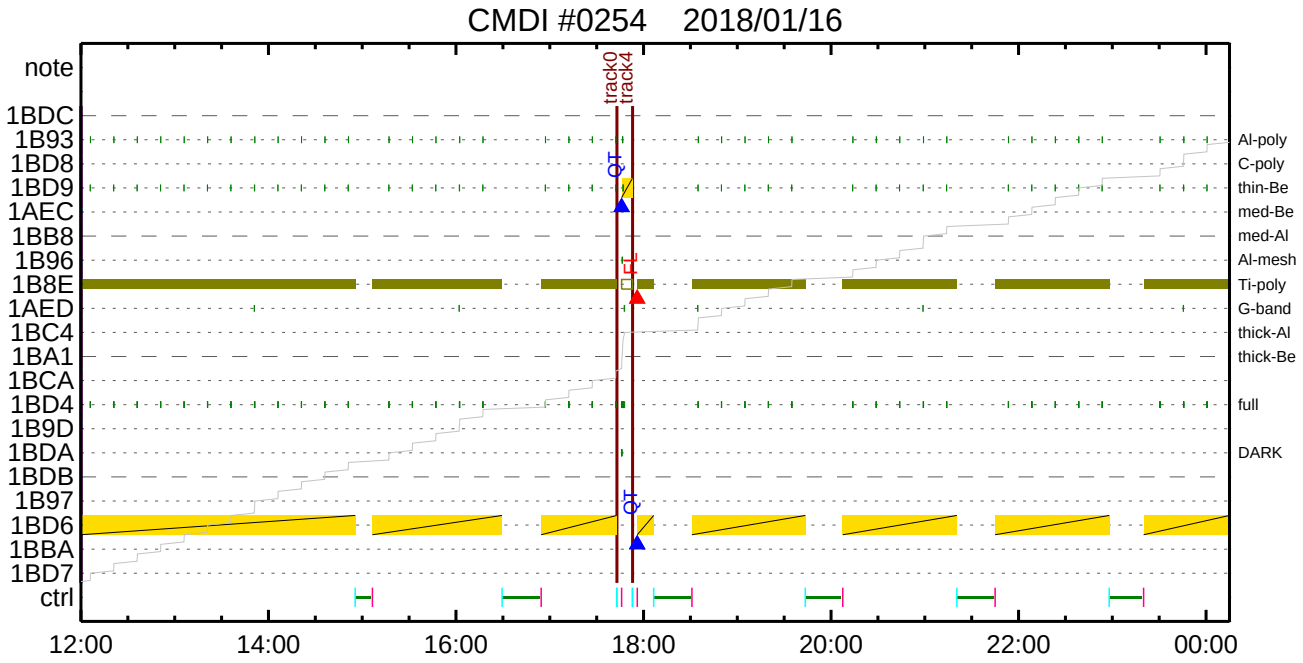
✲ ✲ ✲ ✲ ✲ **Flare Detection** ✲ ✲ ✲ ✲ ✲

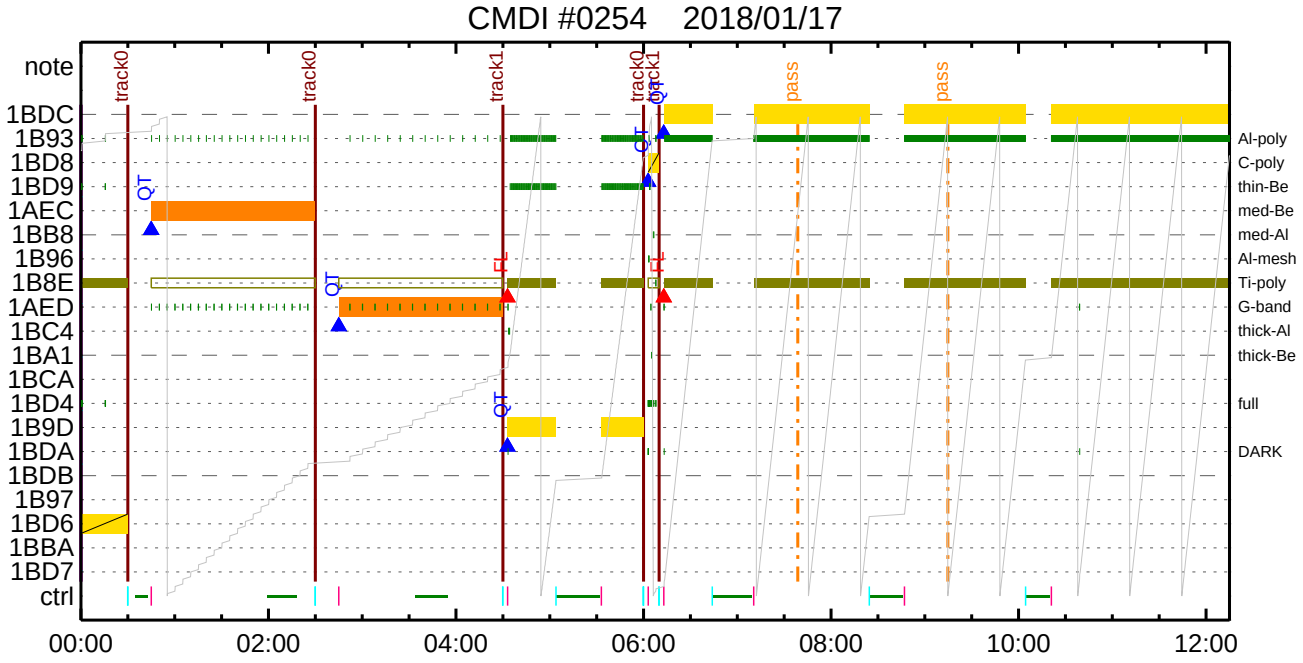
FLD Patrol

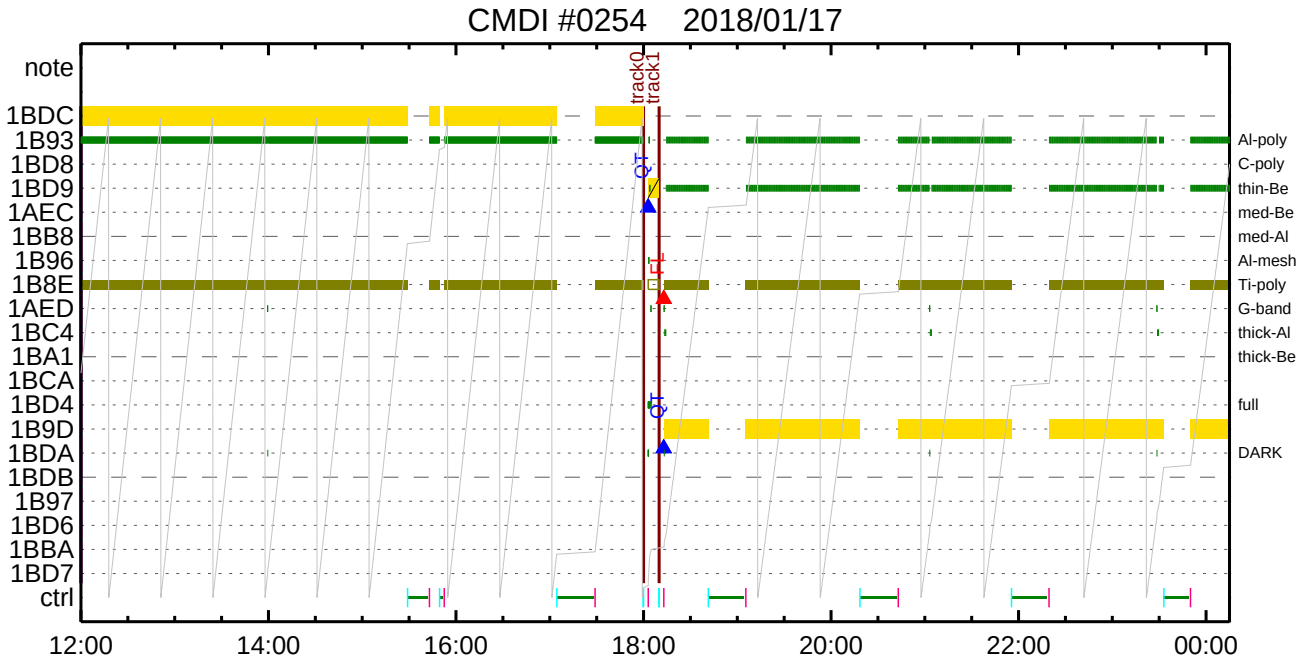
Term	Pointing (x, y)	Comment
01/16 17:53:18 - 01/17 00:30:18	Track (300.3, -108.2) @ 01/16 17:53:00	#EIS sensitivity monitoring
01/17 04:30:18 - 01/17 06:00:18	Track (-182.5, -155.5) @ 01/17 04:30:00	AR observation
01/17 06:10:18 - 01/17 18:00:18	Track (-167.5, -155.2) @ 01/17 06:10:00	AR observation (HOP 341)
01/17 18:10:18 - 01/18 06:16:48	Track (-58.7, -153.3) @ 01/17 18:10:00	AR observation
01/18 06:26:48 - 01/18 18:03:18	Track (53.4, -152.4) @ 01/18 06:26:30	AR observation (HOP 341)
01/18 18:13:18 - 01/19 05:48:48	Track (160.3, -152.7) @ 01/18 18:13:00	AR observation
01/19 05:58:48 - 01/19 17:50:48	Track (264.9, -153.9) @ 01/19 05:58:30	AR observation (HOP 341)
01/19 18:00:48 - 01/20 06:00:18	Track (368.4, -156.3) @ 01/19 18:00:30	AR observation
01/20 06:10:18 - 01/20 18:07:18	Track (467.9, -159.8) @ 01/20 06:10:00	AR observation (HOP 341)
01/20 18:17:18 - 01/21 06:24:48	Track (560.6, -164.4) @ 01/20 18:17:00	AR observation
01/21 06:34:48 - 01/21 18:10:48	Track (646.8, -170.1) @ 01/21 06:34:30	AR observation (HOP 341)
01/21 18:20:48 - 01/22 05:56:48	Track (720.8, -176.5) @ 01/21 18:20:30	AR observation
01/22 06:10:48 - 01/22 17:58:48	Track (785.6, -183.7) @ 01/22 06:06:30	AR observation
01/22 18:08:48 - 01/23 06:00:18	Track (841.3, -191.8) @ 01/22 18:08:30	AR observation

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8ms	Obs	8x8		Q=50		30sec


CMDI #0254 2018/01/16
note
before Tbl up
after Tbl up
20 1BDC 1BDC : HOP341 - High cadence (10s Al/poly only) 384x384 a ...
19 1B93 1B93
18 1BD8 1BD8 : Synoptic 7 Filter w/ Al-mesh(64/512/2897), Al-poly ...
17 1BD9 1BD9 : Synoptic Q95 2x2 - Al/mesh(64/512/2897) + Dark cal ...
16 1BC8 1AEC : G-Band Alignment with North Pole Q90 2x2 (G-band a ...
15 1BB8 1BB8
14 1B96 1B96
13 1B8E 1B8E : Flare - multifilter 26 sec cadence (Be/thin, Be/me ...
12 1BC9 1AED : G-Band Alignment with East limb Q90 2x2 (G-band an ...
11 1BC4 1BC4
10 1BA1 1BA1 : HOP336 1-filter - Al/poly -384x384, 512ms and 4s, ...
9 1BCA 1BCA
8 1BD4 1BD4
7 1B9D 1B9D : AR (Filter-Ratio with Al/poly and thin-Be) with PF ...
6 1BDA 1BDA
5 1BDB 1BDB
4 1B97 1B97
3 1BD6 1BD6 : CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al- ...
2 1BBA 1BBA
1 1BD7 1BD7
ctrl
Table upload : 3rd pass (2018/01/16 09:34:40)
pass
pass
pass
obsv
pass
track4
FL
FL
QT
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0254 2018/01/16
note
1BDC
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track4
QT
FL
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0254 2018/01/17
note
track0
track0
track1
track0
track1
pass
pass
QT
QT
QT
FL
FL
QT
1BDC
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00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note
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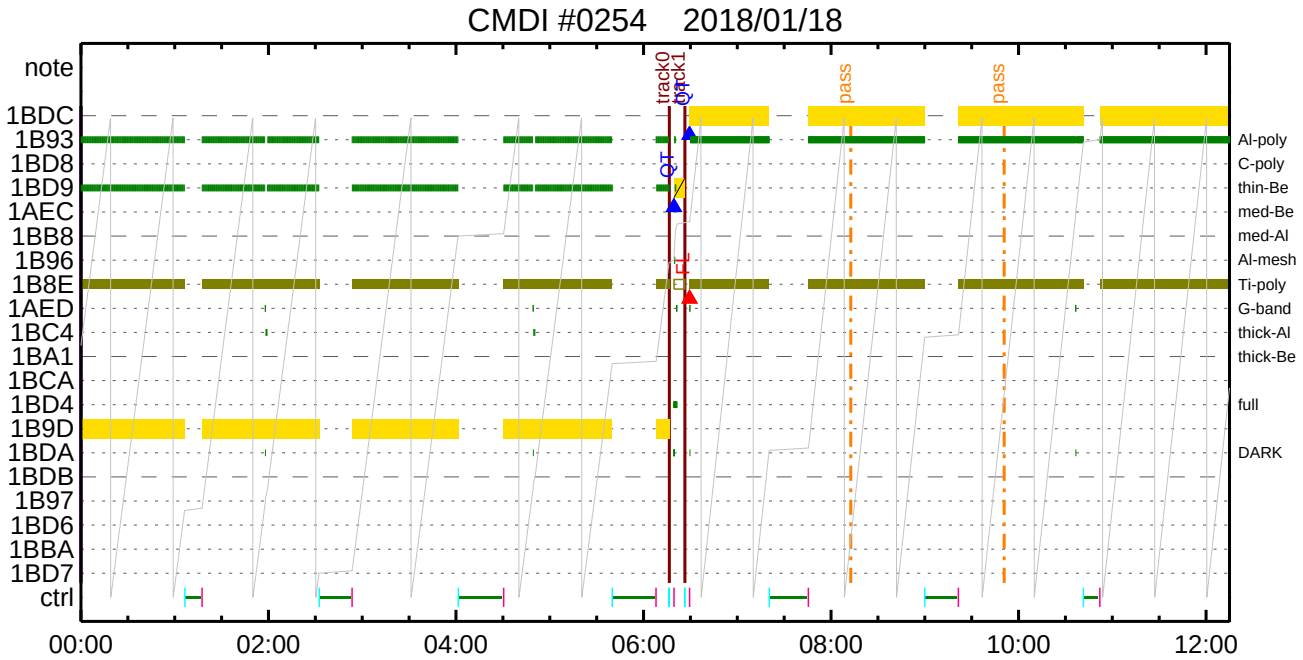
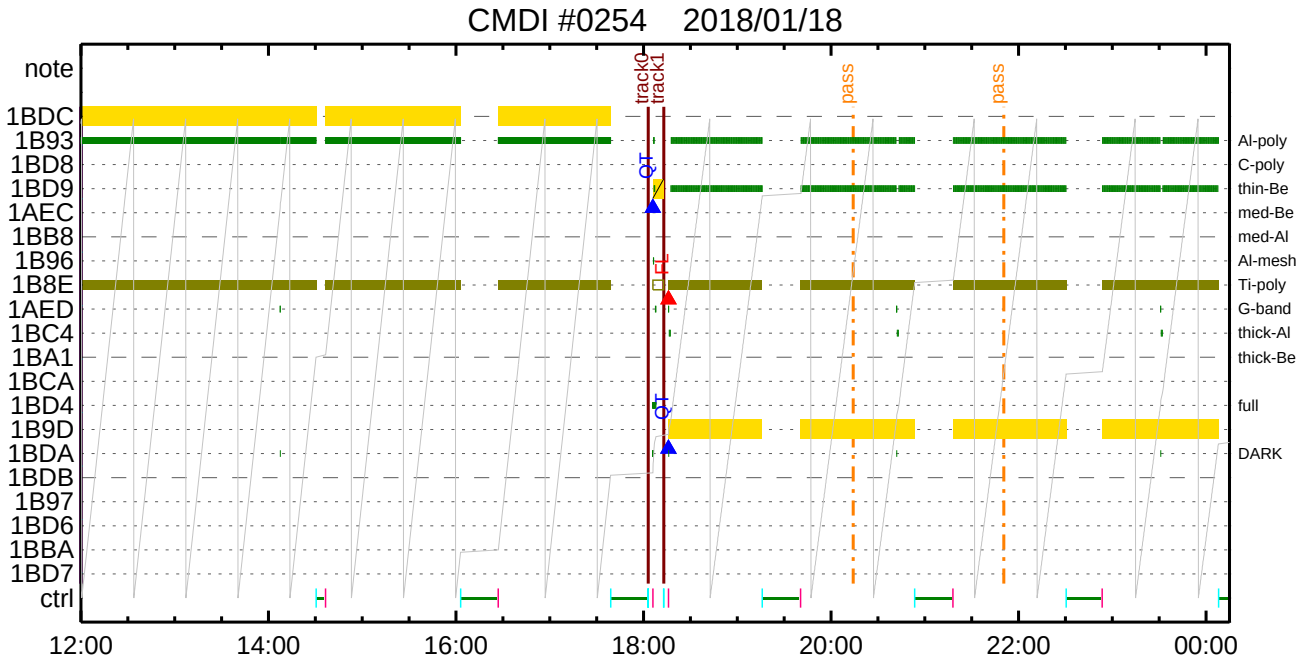
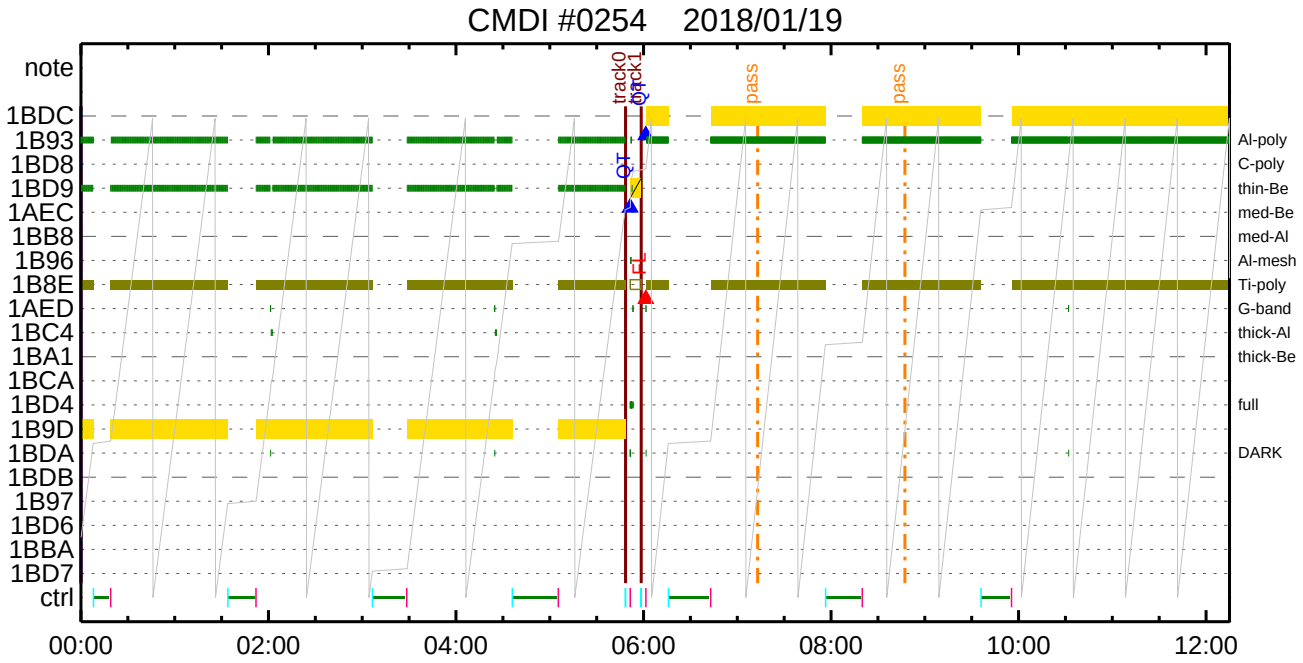
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
FL
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0254 2018/01/18
note
1BDC
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
QT
FL
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0254 2018/01/18
note
1BDC
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
FL
QT
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0254 2018/01/19
note
1BDC
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
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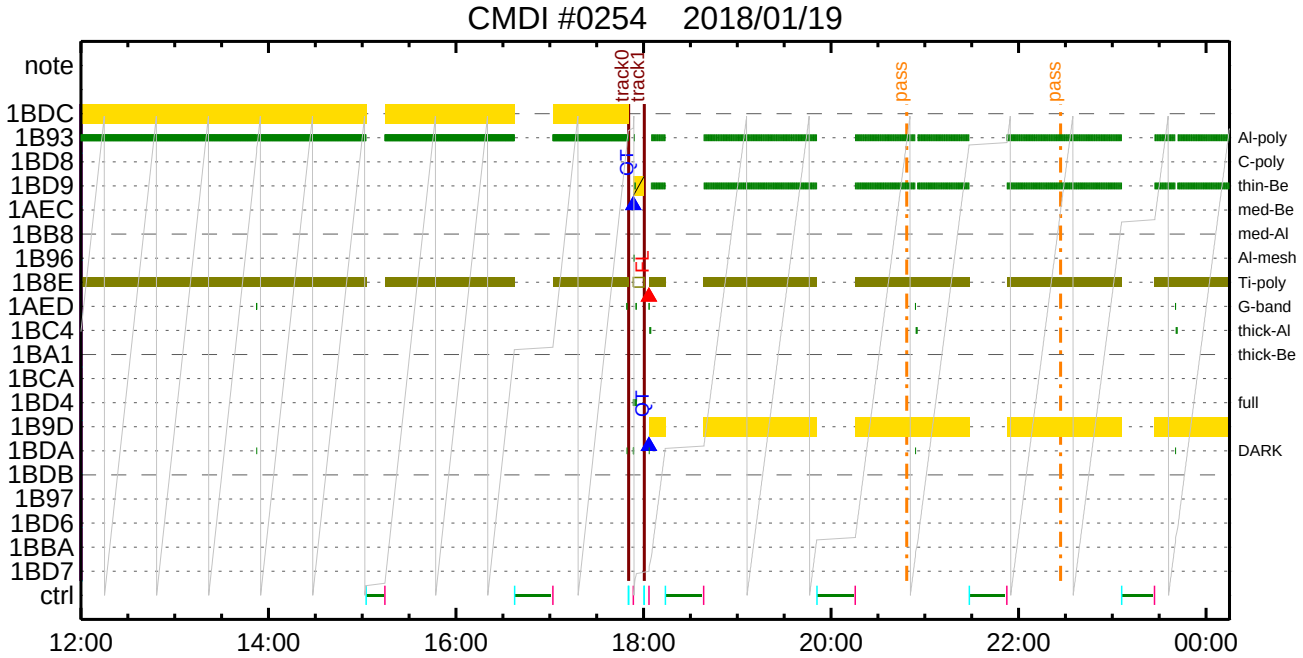
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
FL
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0254 2018/01/19
note
1BDC
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
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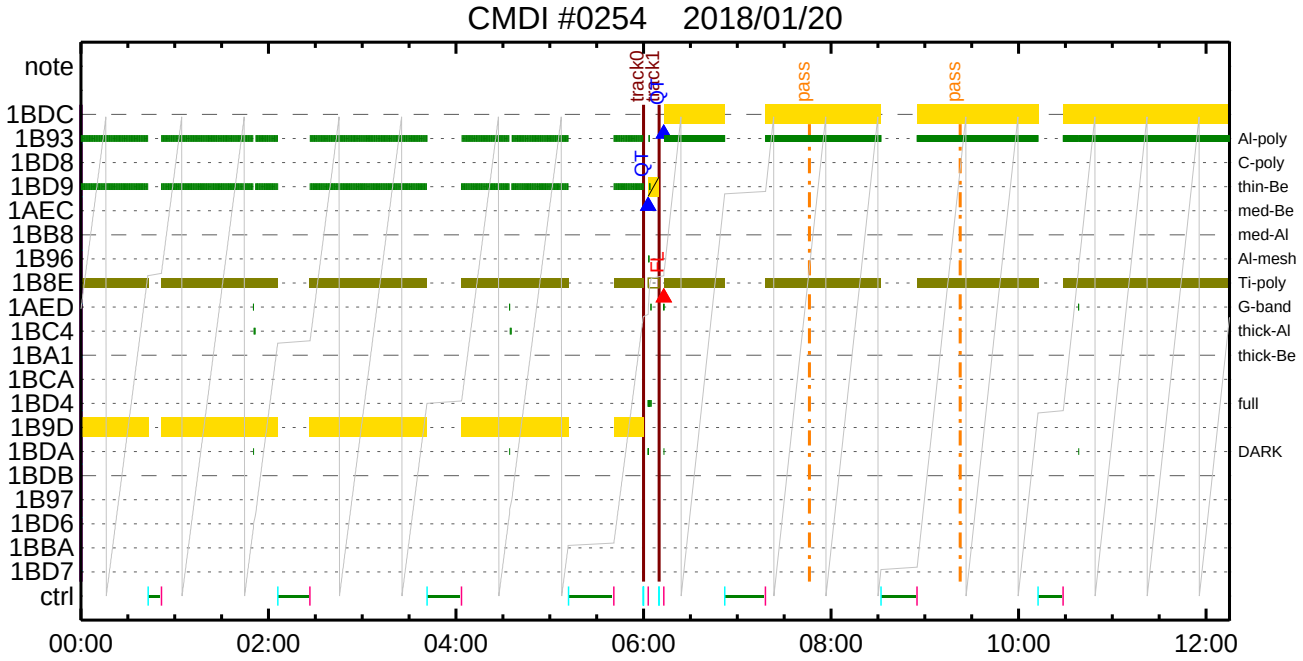
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
FL
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00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note
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1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
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1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
FL
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
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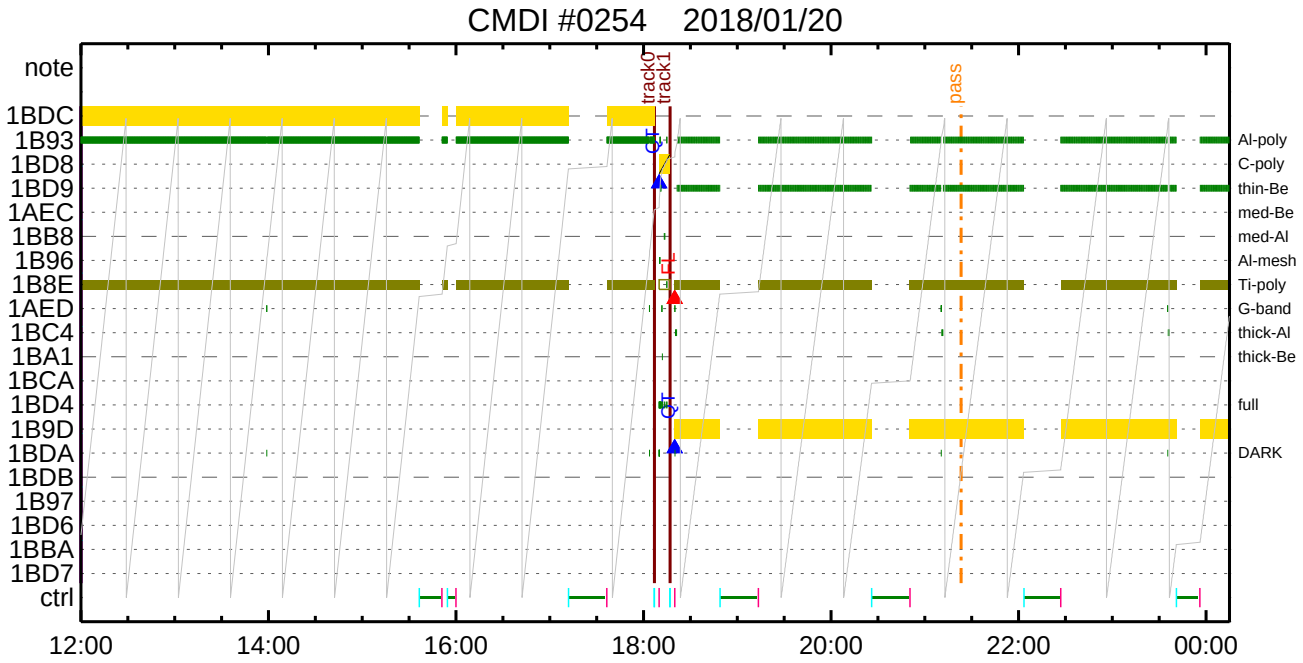
10:00
12:00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note
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1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
pass
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
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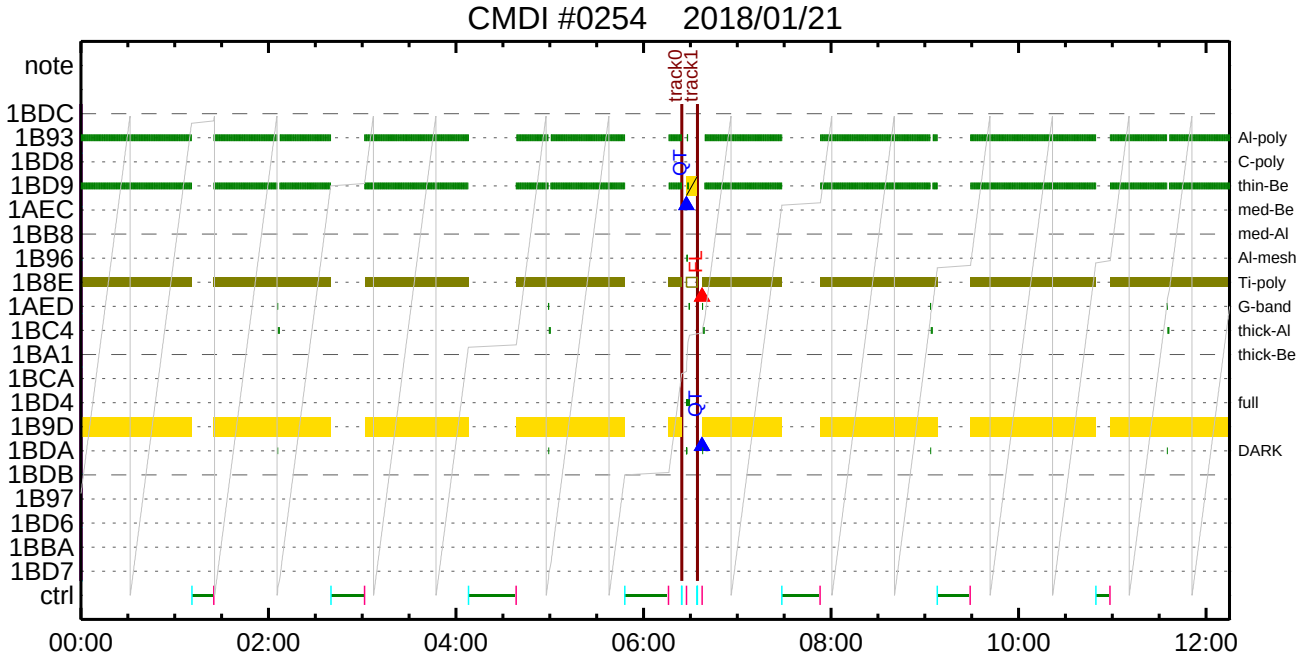
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note
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1BD9
1AEC
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1B96
1B8E
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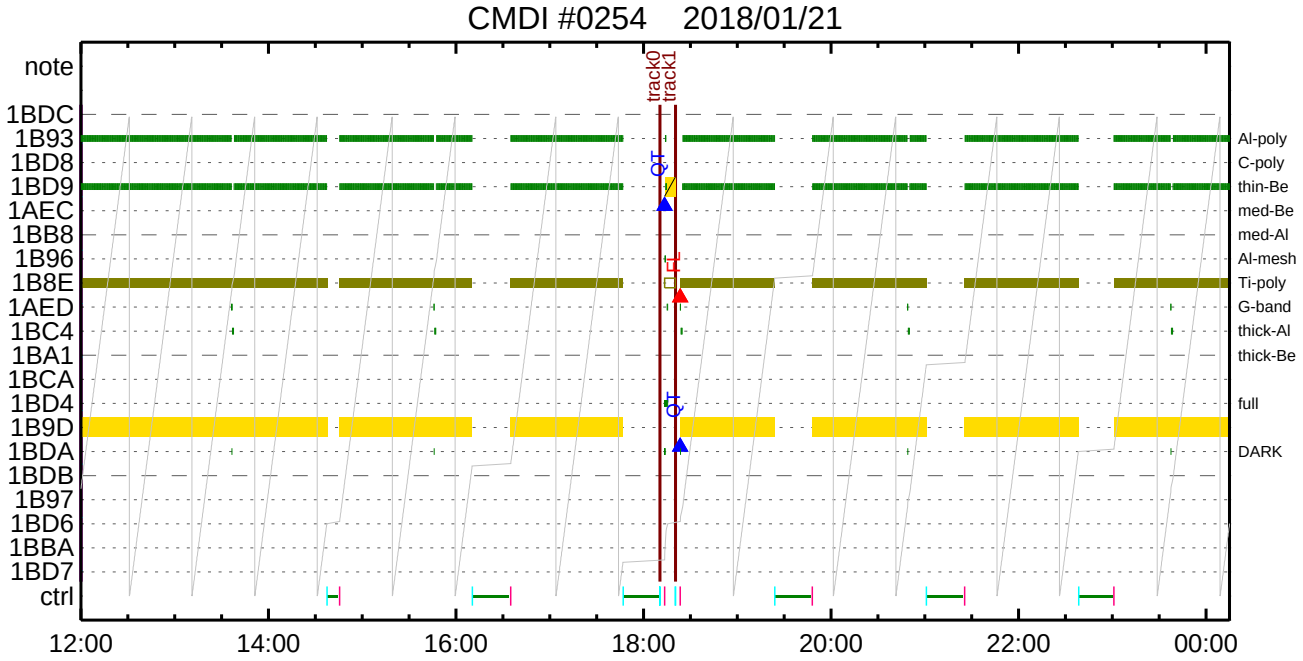
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00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note
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1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
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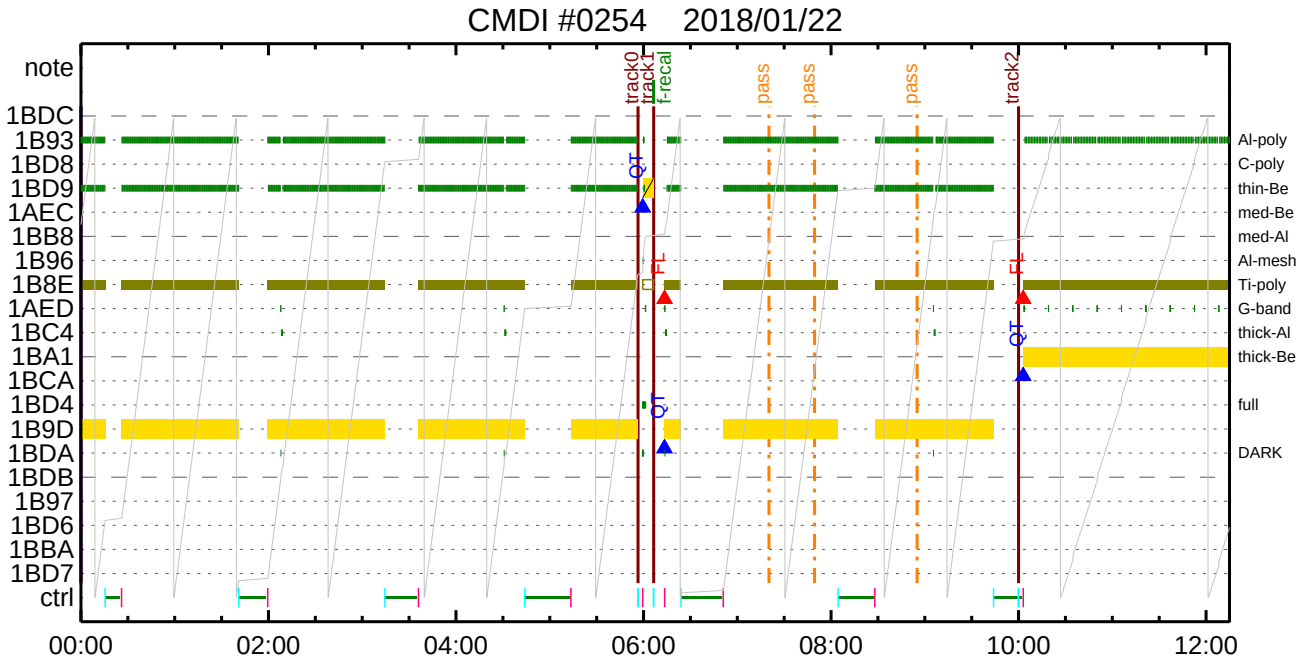
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note
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1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
f-recal
pass
pass
pass
track2
QT
FL
QT
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
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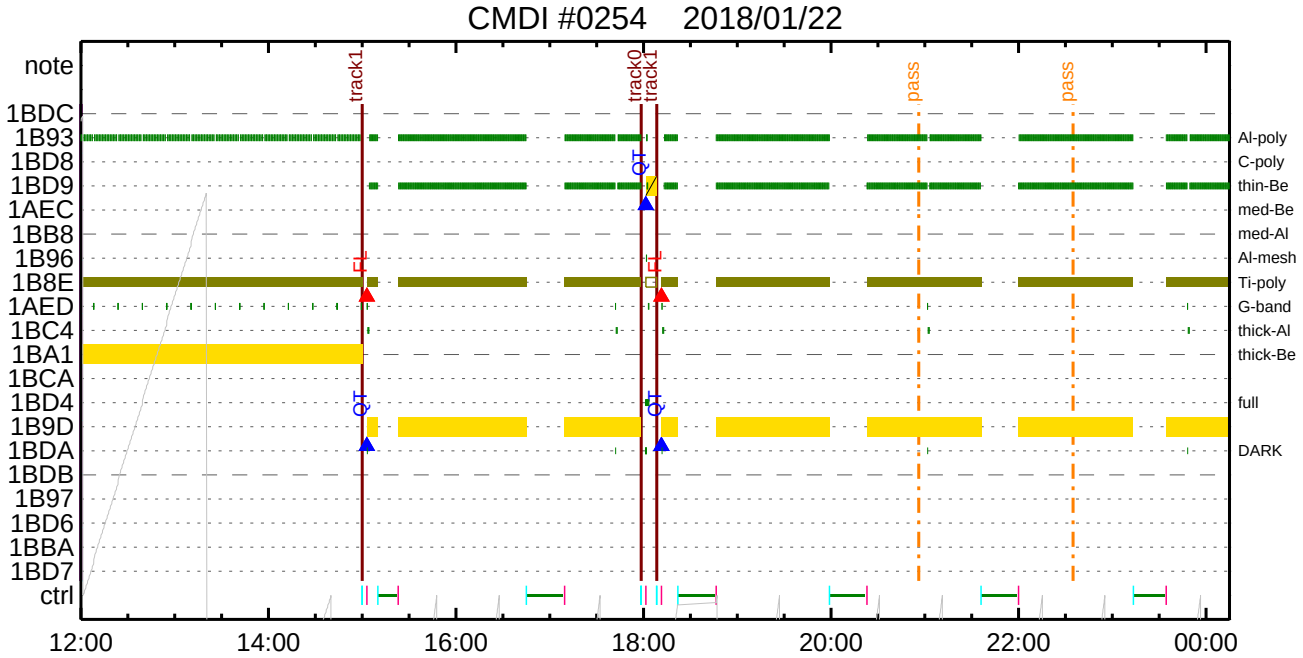
CMDI #0254 2018/01/22
note
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1AEC
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1B96
1B8E
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1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track1
track0
track1
pass
pass
QT
FL
FL
QT
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
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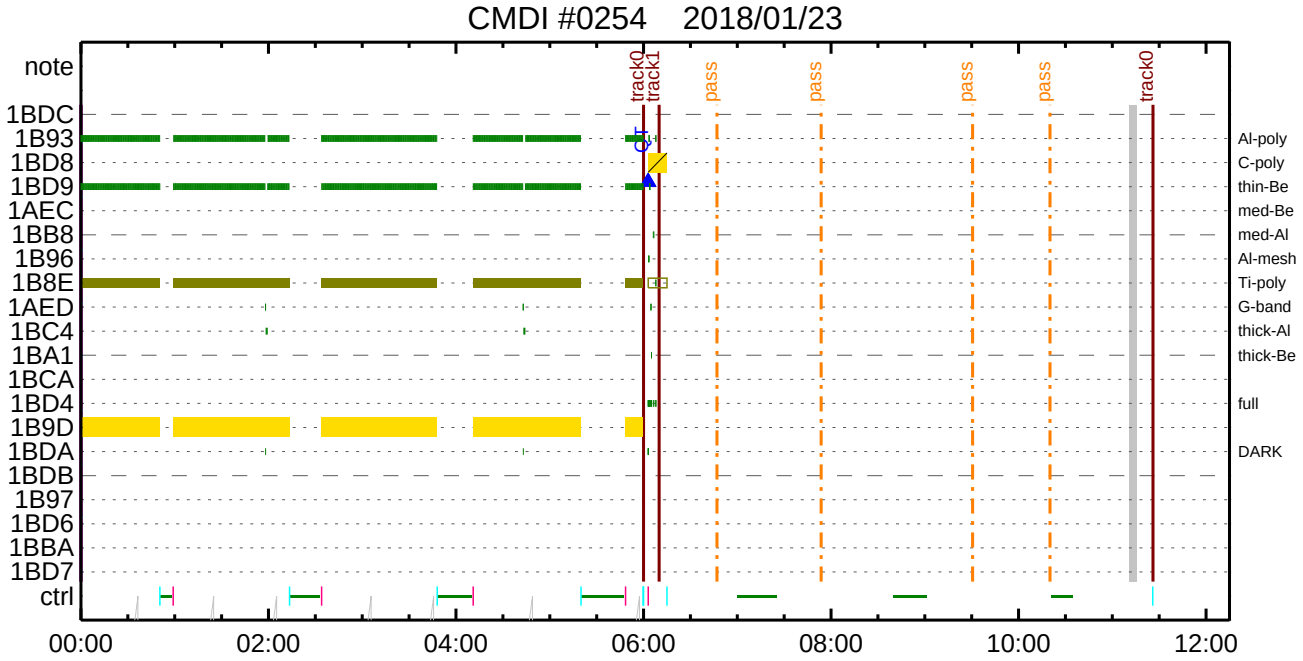
CMDI #0254 2018/01/23
note
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1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
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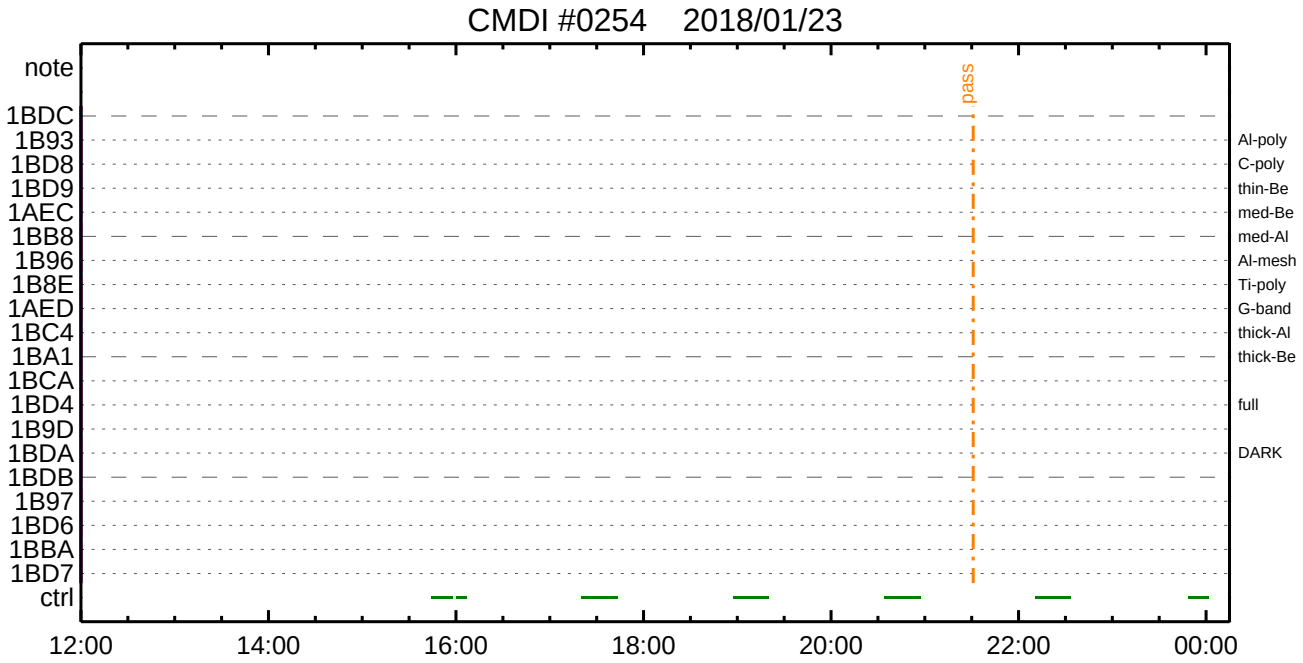
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
track0
track1
pass
pass
pass
pass
track0
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0254 2018/01/23
note
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1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
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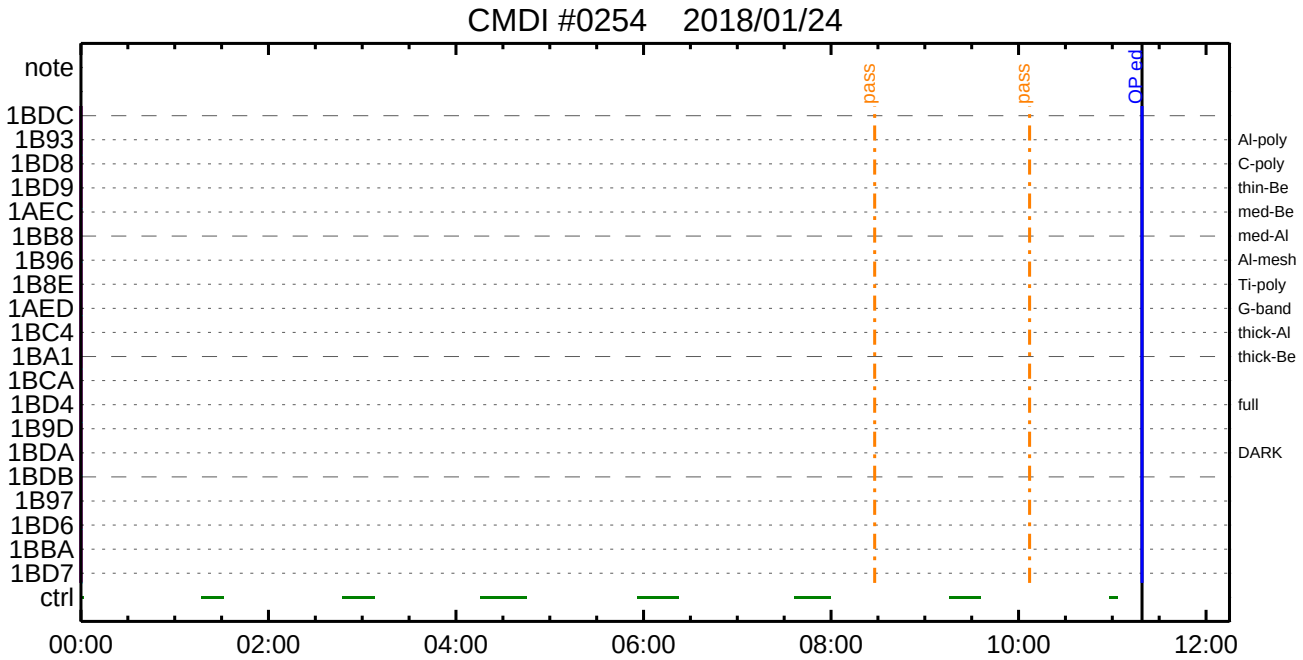
22:00
00:00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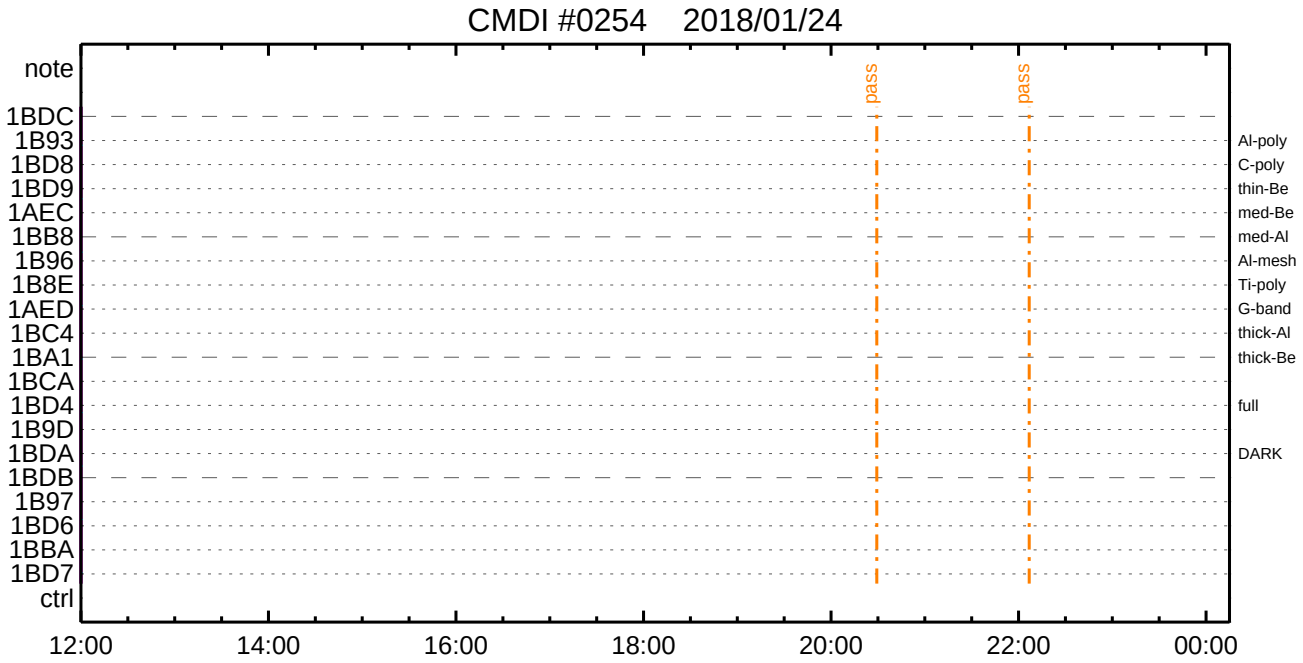
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0254 2018/01/24
note
1BDC
1B93
1BD8
1BD9
1AEC
1BB8
1B96
1B8E
1AED
1BC4
1BA1
1BCA
1BD4
1B9D
1BDA
1BDB
1B97
1BD6
1BBA
1BD7
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

(a) Spacecraft Operation Procedure (real-commands)

```
main-114 2018-01-16 12:33:19 205 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0016     C. ****************************
0017     C.
0018   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0019   . S. OP    op-114:OP
0020     ()
0021   . S. OG    og-114:OG
0022     ()
0023     C.
0024   . C. ¡ãNMOG&OPÎÎ°è¥À¥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¥×½ªÎ»¤ò³ÎÇ§
0041     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0042   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
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¥×½ªÎ»¤ò³ÎÇ§
0060     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0061   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
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¥×½ªÎ»¤ò³ÎÇ§
0079     C.                    ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0080   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0081     C.
0082   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0083     C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
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 UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
```

```
0096     C.           ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
0097     C.
0098   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0099  +. TI 2018-01-16 11:25:00.0
0100     DC 01-B3 DHU_OP_STOP
0101     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0102     C.
0103  +. TI 2018-01-16 11:25:01.0
0104     DC 01-B4 DHU_OP_COPY
0105     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0106     C.
0107  +. TI 2018-01-16 11:25:01.0
0108     DC 01-B5 DHU_OPOG_COPY
0109     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0110     C.
0111  +. TI 2018-01-16 11:29:59.5
0112     DC 01-B2 DHU_OP_START
0113     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0114     C.
0115     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
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. TIÎÎ°è¥À¥ó¥×
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. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0142     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0143     C.
0144   . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0145     C.
0146   . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
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 2018-01-16 11:29:16.0
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 2018-01-16 11:29:30.0
0172     DC 07-FC EIS_MODE_MANU
0173     BC       (21 02)
0174  +. TI 2018-01-16 11:29:40.0
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 2018-01-16 11:29:00.0
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 ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0192     C. (¾å°Ì¥Ó¥Ã¥Ë¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0193   . S. DC-BC dcbc-402:DCBC
```

```
0194     (MDP_known_event)
0195     C.
0196     C.
0197   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
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-115 2018-01-16 12:33:19 178 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥ÃÃ¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇÇÎ»þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019  +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021  +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023  +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                    ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                    ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥ÃÃ¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037  +. DC 01-29 DHU_S/X_VC4_OFF
0038  +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040  +  DC 06-B3 DR_REP_START
0041  +  DC 01-32 DHU_X_VC4_ON
0042     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸ ¡¾Ú)
0043     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0044     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸ å¤ÎºÆÀ¸ ºÆ³«¡ä
0047  +. DC 06-B3 DR_REP_START
0048  +  DC 01-32 DHU_X_VC4_ON
0049     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸ ¡¾Ú)
0050     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0051     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸ å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÊÀÚÂØ¤äÅ•Äº²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063  +. DC 01-29 DHU_S/X_VC4_OFF
0064  +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066  +  DC 06-B3 DR_REP_START
0067  +  DC 01-32 DHU_X_VC4_ON
0068     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸ ¡¾Ú)
0069     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0070     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸ å¤ÎºÆÀ¸ ºÆ³«¡ä
0073  +. DC 06-B3 DR_REP_START
0074  +  DC 01-32 DHU_X_VC4_ON
0075     C.                    ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸ ¡¾Ú)
0076     C.                    ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸ ¡¾Ú)
0077     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸ ¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084  +. DC 06-B4 DR_REP_STOP
0085  +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                    ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                    ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                    ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091  +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093  +  DC 03-B5 TCIA_XPA_OFF
0094     C.                    ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                    ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ***** AOCS Commands (Tracking Curve Upload) ******
0099     C. Upload the Orbit Element and the Target Attitude
0100     C. RAM-ID:TARGET_ATT
0101   . S. RAM   ram-150:TARGET_ATT
0102     ()
0103     C.
0104     C.
0105     C. Set the dump memory area of TARGET_ATT
0106  +. DC 02-48 AOCU_DUMP_SET
0107     BC       (07 00 00 00 18 00)
0108     C.
0109     C.    <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110     C.
0111     C.
0112     C. Change the TLMFormatNo for the AOCS Dump Format
0113  +. DC 01-22 DHU_MODE_CHNG
0114     BC       (04 0b f8)
0115     C.
0116     C. Wait for AOCSDUMP to end
0117     C.
0118   . C. Check the dump memory
0119     C.
0120     C.                                      Result = OK [ ]
0121     C.
0122  +. DC 01-22 DHU_MODE_CHNG
0123     BC       (02 0a f8)
0124     C.
0125     C.                        <A_***>[TLM STS] FMT = 2 [ ]
0126     C.
0127  +. DC 02-8E AOCU_ORB_UPD
0128   . C.
0129   . C. ***** AOCS Commands (Orbital Element Update) *****
0130     C. Update the orbital element
0131  +. DC 02-50 AOCU_ORB_PRPGT_START
0132     BC       (16)
0133  +  DC 02-8E AOCU_ORB_UPD
0134     C.
0135     C.       <A_ORB>[ORBIT] EPC = 4445277.3 +- 1.0 (s) [ ]
0136     C.
0137   . C.
0138   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139  +. DC 07-FC EIS_MODE_CHG_ENA
0140     BC       (20)
0141   . C. Verify EIS_MODE_CHG_FLG is ENA
0142  +. DC 07-FC EIS_MODE_MANU
0143     BC       (21 02)
0144   . C. Verify EIS in MANUAL mode
0145   . C. Estimated OBSTBL upload time is 16s
0146     C. ********************************
0147     C. EIS START OBSTBL LOAD
0148     C. ********************************
0149   . S. RAM   ram-820:EIS_OBSTBL
0150     ()
0151  +. DC 07-FC EIS_DUMP_OBSTBL
0152     BC       (07 07 07 00 00 70 00)
0153     C.
0154     C. Execute, after the success of OBSTBL upload.
0155     C. Set EIS TI-commands
0156  +. TI 2018-01-16 11:29:50.0
0157     DC 07-FC EIS_MODE_CHG_ENA
0158     BC       (20)
0159   . C.                     [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0160     C. ********************************
0161     C. EIS END OBSTBL LOAD
0162     C. ********************************
0163     C.
0164   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0165     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0166   . S. DC-BC dcbc-402:DCBC
0167     (MDP_known_event)
0168     C.
0169     C.
0170   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0171   . S. DC-BC dcbc-153:DCBC
0172     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0173     C.
0174     C.
0175   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0176     C.
0177   . C. *********** LOS ***********
0178     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-116 2018-01-16 12:33:19 138 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊÈè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
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-287:MDP_OBS_S
0026     ()
0027     C.
0028   . C. < Dump RAMID=MDP_OBS_S >
0029  +. DC 07-F0 MDP_DUMP_SPTBL
0030     BC       (83 07 00 00 00 38 b8)
0031     C. ------------------------------------
0032     C.  MDP_OBS_S verify = OK/NG        [ ]
0033     C. ------------------------------------
0034     C.
0035     C. ********************************
0036     C.  SOT TI command set
0037     C. ********************************
0038     C. Execute, after the success of TBL upload.
0039  +. TI 2018-01-16 11:29:18.0
0040     DC 07-F0 MDP_SOT_MODE_OBSV
0041     BC       (40)
0042   . C. ------------------------------------
0043     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0044     C. ------------------------------------
0045     C.
0046     C.
0047     C. ************ XRT START ************
0048     C.
0049  +. DC 07-F0 MDP_XRT_CTRL_MANU
0050     BC       (c1)
0051  +. DC 07-F0 MDP_XRT_CTRL_MANU
0052     BC       (c1)
0053  +  DC 07-F0 MDP_XRT_MODE_STBY
0054     BC       (c3)
0055   . C. ----------- Success Verify ?              OK / NG____
0056     C.
0057     C. XRT Obs. Table Upload
0058   . S. RAM   ram-291:MDP_OBS_X
0059     ()
0060     C.
0061  +. DC 07-F0 MDP_DUMP_XRTTBL
0062     BC       (84 07 00 00 00 3a d4)
0063   . C. ----------- Comparison Check ?                        OK / ERR ____
0064     C.
0065     C.
0066  +. DC 07-F0 MDP_XRT_ROI_SET
0067     BC       (cd 01 b1 b1 04 04)
0068  +  DC 07-F0 MDP_XRT_ROI_SET
0069     BC       (cd 02 b1 b1 08 08)
0070  +  DC 07-F0 MDP_XRT_ROI_SET
0071     BC       (cd 03 b1 b1 08 08)
0072  +  DC 07-F0 MDP_XRT_ROI_SET
0073     BC       (cd 04 b1 b1 06 06)
0074  +  DC 07-F0 MDP_XRT_ROI_SET
0075     BC       (cd 05 85 83 06 06)
0076  +  DC 07-F0 MDP_XRT_ROI_SET
0077     BC       (cd 06 85 83 06 06)
0078  +  DC 07-F0 MDP_XRT_ROI_SET
0079     BC       (cd 07 85 83 08 08)
0080  +  DC 07-F0 MDP_XRT_ROI_SET
0081     BC       (cd 08 80 80 08 08)
0082  +  DC 07-F0 MDP_XRT_ROI_SET
0083     BC       (cd 09 80 80 20 20)
0084  +  DC 07-F0 MDP_XRT_ROI_SET
0085     BC       (cd 0a 80 80 20 08)
0086  +  DC 07-F0 MDP_XRT_ROI_SET
0087     BC       (cd 0b 80 80 08 20)
0088  +  DC 07-F0 MDP_XRT_ROI_SET
0089     BC       (cd 0c 80 60 20 18)
0090  +  DC 07-F0 MDP_XRT_ROI_SET
0091     BC       (cd 0d a0 80 18 20)
0092  +  DC 07-F0 MDP_XRT_ROI_SET
0093     BC       (cd 0f 80 80 06 06)
0094  +  DC 07-F0 MDP_XRT_ROI_SET
0095     BC       (cd 10 80 80 08 08)
```

```
0096  +  DC 07-F0 MDP_XRT_FLD_ENA
0097     BC       (d8)
0098  +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0099     BC       (c8)
0100  +  DC 07-F0 MDP_XRT_ARS_DIS
0101     BC       (d5)
0102  +  DC 07-F0 MDP_XRT_AEC_RESET
0103     BC       (d0)
0104  +  DC 07-F0 MDP_XRT_FLD_RESET
0105     BC       (da)
0106  +. DC 07-F0 MDP_XRT_QT_PROG_SET
0107     BC       (c4 07)
0108  +. DC 07-F0 MDP_XRT_FL_PROG_SET
0109     BC       (c5 0d)
0110   . C. ---------- Success Verify ?            OK / NG ____
0111     C.
0112     C.
0113   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0114     C.
0115  +. DC 07-F0 MDP_XRT_MODE_OBSV
0116     BC       (c2)
0117  +. TI 2018-01-16 11:29:02.0
0118     DC 07-F0 MDP_XRT_MODE_OBSV
0119     BC       (c2)
0120   . C. ---------- Success Verify ?            OK / NG ____
0121     C.
0122     C. ************ XRT END ***********
0123     C.
0124   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0125     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0126   . S. DC-BC dcbc-402:DCBC
0127     (MDP_known_event)
0128     C.
0129     C.
0130   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0131   . S. DC-BC dcbc-153:DCBC
0132     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0133     C.
0134     C.
0135   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0136     C.
0137   . C. *********** LOS ***********
0138     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-117 2018-01-16 12:33:19 29 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014     C.
0015   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0016     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0017   . S. DC-BC dcbc-402:DCBC
0018     (MDP_known_event)
0019     C.
0020     C.
0021   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0022   . S. DC-BC dcbc-153:DCBC
0023     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0024     C.
0025     C.
0026   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0027     C.
0028   . C. *********** LOS ***********
0029     C.
```

```
*** OP Sequence for XRT ***

2018/01/16  11:39:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  11:39:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  11:39:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/16  11:40:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                        AOCU_NM              5 02-76 04 00 00 00 00
2018/01/16  11:40:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/16  11:40:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/16  11:40:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/16  11:40:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/16  11:40:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  11:42:56.0  XRT_QT_PROG_SET_413_OG [0x19d]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2018/01/16  11:42:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/16  11:43:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  14:55:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  14:55:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  14:55:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/16  14:58:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/16  15:05:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/16  15:06:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  16:29:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  16:29:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  16:29:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/16  16:32:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/16  16:53:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/16  16:54:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  17:42:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  17:42:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  17:42:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/16  17:43:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/16  17:43:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/16  17:45:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/16  17:45:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/16  17:45:58.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/16  17:46:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  17:52:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  17:52:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  17:52:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/16  17:53:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                        AOCU_NM              5 02-76 04 00 00 00 00
2018/01/16  17:53:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/16  17:53:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/16  17:53:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/16  17:53:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/16  17:53:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  17:55:56.0  XRT_QT_PROG_SET_413_OG [0x19d]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2018/01/16  17:55:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/16  17:56:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  18:06:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  18:06:32.0  XRT_FLD_RESET_415_OG [0x19f]
```

```
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  18:06:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/16  18:09:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/16  18:30:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/16  18:31:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  19:43:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  19:43:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  19:43:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/16  19:46:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/16  20:06:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/16  20:07:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  21:20:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  21:20:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  21:20:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/16  21:23:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/16  21:44:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/16  21:45:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/16  22:58:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/16  22:58:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/16  22:58:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/16  23:01:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/16  23:19:00.5  XRT_Custom_430_OG [0x1ae]
2018/01/16  23:20:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  00:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  00:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  00:29:58.0  XRT_FOCUS_POSITION_414_OG [0x19e]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/17  00:30:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 ad 59 00 00
2018/01/17  00:30:18.0  XRT_FLD_DIS_418_OG [0x1a2]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/17  00:44:54.0  XRT_FLRCTRL_DIS_421_OG [0x1a5]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/17  00:44:56.0  XRT_ARS_DIS_445_OG [0x1bd]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/17  00:44:58.0  XRT_QT_PROG_SET_446_OG [0x1be]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2018/01/17  00:45:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  02:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  02:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  02:29:58.0  XRT_FOCUS_POSITION_414_OG [0x19e]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/17  02:30:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                        AOCU_NM              5 02-76 00 00 00 56 35
2018/01/17  02:30:18.0  XRT_FLD_DIS_418_OG [0x1a2]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/17  02:44:54.0  XRT_FLRCTRL_DIS_421_OG [0x1a5]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/17  02:44:56.0  XRT_ARS_DIS_445_OG [0x1bd]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/17  02:44:58.0  XRT_QT_PROG_SET_432_OG [0x1b0]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2018/01/17  02:45:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  04:29:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  04:29:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  04:29:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/17  04:30:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/17  04:30:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/17  04:30:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/17  04:30:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/17  04:30:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
```

```
2018/01/17  04:30:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  04:32:56.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/17  04:32:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/17  04:33:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  05:04:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  05:04:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  05:04:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  05:07:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  05:32:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  05:33:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  05:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  05:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  05:59:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/17  06:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/17  06:00:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/17  06:02:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/17  06:02:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/17  06:02:58.0  XRT_QT_PROG_SET_434_OG [0x1b2]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 12
2018/01/17  06:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  06:09:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  06:09:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  06:09:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/17  06:10:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/17  06:10:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/17  06:10:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/17  06:10:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/17  06:10:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/17  06:10:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  06:12:56.0  XRT_QT_PROG_SET_409_OG [0x199]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2018/01/17  06:12:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/17  06:13:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  06:44:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  06:44:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  06:44:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  06:47:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  07:09:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  07:10:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  08:24:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  08:24:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  08:24:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  08:27:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  08:46:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  08:47:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  10:04:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  10:04:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  10:04:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  10:07:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  10:20:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  10:21:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
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                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  15:29:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  15:29:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  15:29:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  15:32:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  15:42:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  15:43:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  15:49:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  15:49:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  15:49:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  15:51:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  15:52:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  15:52:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  17:04:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  17:04:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  17:04:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  17:07:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  17:28:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  17:29:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  17:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  17:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  17:59:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/17  18:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/17  18:00:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/17  18:02:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/17  18:02:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/17  18:02:58.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/17  18:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  18:09:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  18:09:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  18:09:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/17  18:10:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/17  18:10:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/17  18:10:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/17  18:10:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/17  18:10:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/17  18:10:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  18:12:56.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/17  18:12:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/17  18:13:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  18:41:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  18:41:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  18:41:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  18:44:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  19:04:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  19:05:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  20:18:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  20:18:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  20:18:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
```

```
2018/01/17  20:21:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  20:42:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  20:43:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  21:55:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  21:55:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  21:55:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  21:58:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  22:18:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  22:19:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/17  23:33:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/17  23:33:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/17  23:33:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/17  23:36:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/17  23:49:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/17  23:50:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  01:06:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  01:06:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  01:06:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  01:09:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  01:16:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  01:17:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  02:32:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  02:32:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  02:32:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  02:35:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  02:52:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  02:53:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  04:01:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  04:01:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  04:01:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  04:04:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  04:29:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  04:30:30.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  05:40:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  05:40:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  05:40:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  05:43:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  06:07:00.5  XRT_Custom_430_OG [0x1ae]
2018/01/18  06:08:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  06:16:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  06:16:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  06:16:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                   XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/18  06:16:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                   AOCU_NM              5 02-76 00 00 00 00 00
2018/01/18  06:16:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                   MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/18  06:19:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                   MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/18  06:19:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/18  06:19:28.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/18  06:19:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  06:26:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  06:26:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
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2018/01/18  06:26:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/18  06:26:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 01 00 00 00 00
2018/01/18  06:26:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/18  06:26:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/18  06:26:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/18  06:26:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/18  06:26:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  06:29:26.0  XRT_QT_PROG_SET_409_OG [0x199]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2018/01/18  06:29:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/18  06:29:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  07:20:30.5  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  07:20:32.5  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  07:20:34.5  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  07:23:44.5  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  07:44:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  07:45:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  09:00:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  09:00:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  09:00:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  09:03:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  09:20:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  09:21:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  10:41:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  10:41:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  10:41:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  10:44:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  10:51:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  10:52:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  14:30:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  14:30:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  14:30:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  14:33:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  14:35:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  14:36:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  16:03:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  16:03:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  16:03:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  16:06:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  16:26:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  16:27:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  17:39:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  17:39:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  17:39:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  17:42:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  18:02:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  18:02:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  18:02:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/18  18:03:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2018/01/18  18:03:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
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2018/01/18  18:05:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                   MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/18  18:05:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/18  18:05:58.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/18  18:06:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  18:12:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  18:12:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  18:12:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                   XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/18  18:13:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                   AOCU_NM              5 02-76 01 00 00 00 00
2018/01/18  18:13:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                   MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/18  18:13:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                   MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/18  18:13:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                   MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/18  18:13:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/18  18:13:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  18:15:56.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/18  18:15:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                   MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/18  18:16:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  19:16:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  19:16:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  19:16:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  19:19:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  19:39:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  19:40:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  20:53:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  20:53:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  20:53:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  20:56:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  21:17:01.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  21:18:01.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/18  22:30:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/18  22:30:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/18  22:30:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/18  22:33:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/18  22:52:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/18  22:53:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  00:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  00:08:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  00:08:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  00:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  00:18:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  00:19:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  01:34:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  01:34:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  01:34:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  01:37:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  01:51:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  01:52:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  03:06:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  03:06:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  03:06:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
```

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2018/01/19  03:09:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  03:27:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  03:28:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  04:36:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  04:36:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  04:36:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  04:39:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  05:04:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  05:05:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  05:48:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  05:48:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  05:48:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                   XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/19  05:48:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                   AOCU_NM              5 02-76 00 00 00 00 00
2018/01/19  05:48:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                   MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/19  05:51:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                   MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/19  05:51:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/19  05:51:28.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/19  05:51:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  05:58:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  05:58:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  05:58:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                   XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/19  05:58:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                   AOCU_NM              5 02-76 01 00 00 00 00
2018/01/19  05:58:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                   MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/19  05:58:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                   MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/19  05:58:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                   MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/19  05:58:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/19  05:58:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  06:01:26.0  XRT_QT_PROG_SET_409_OG [0x199]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2018/01/19  06:01:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                   MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/19  06:01:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  06:16:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  06:16:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  06:16:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  06:19:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  06:42:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  06:43:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  07:56:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  07:56:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  07:56:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  07:59:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  08:19:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  08:20:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  09:36:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  09:36:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  09:36:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  09:39:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  09:54:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  09:55:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  15:02:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
```

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2018/01/19  15:02:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  15:02:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  15:05:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  15:13:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  15:14:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  16:37:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  16:37:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  16:37:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  16:40:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  17:01:01.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  17:02:01.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  17:50:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  17:50:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  17:50:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/19  17:50:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/19  17:50:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/19  17:53:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/19  17:53:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/19  17:53:28.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/19  17:53:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  18:00:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  18:00:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  18:00:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/19  18:00:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/19  18:00:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/19  18:00:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/19  18:00:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/19  18:00:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/19  18:00:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  18:03:26.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/19  18:03:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/19  18:03:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  18:14:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  18:14:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  18:14:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  18:17:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  18:37:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  18:38:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  19:51:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  19:51:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  19:51:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  19:54:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  20:14:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  20:15:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  21:28:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  21:28:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  21:28:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  21:31:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  21:51:30.0  XRT_Custom_430_OG [0x1ae]
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2018/01/19  21:52:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/19  23:06:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/19  23:06:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/19  23:06:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/19  23:09:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/19  23:26:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/19  23:27:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  00:43:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  00:43:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  00:43:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  00:46:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  00:50:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  00:51:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  02:06:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  02:06:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  02:06:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  02:09:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  02:25:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  02:26:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  03:41:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  03:41:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  03:41:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  03:44:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  04:02:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  04:03:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  05:12:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  05:12:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  05:12:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  05:15:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  05:40:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  05:41:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  05:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  05:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  05:59:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/20  06:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/20  06:00:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/20  06:02:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/20  06:02:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/20  06:02:58.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/20  06:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  06:09:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  06:09:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  06:09:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/20  06:10:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/20  06:10:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/20  06:10:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/20  06:10:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/20  06:10:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/20  06:10:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
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2018/01/20  06:12:56.0  XRT_QT_PROG_SET_409_OG [0x199]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2018/01/20  06:12:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/20  06:13:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  06:52:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  06:52:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  06:52:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  06:55:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  07:17:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  07:18:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  08:32:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  08:32:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  08:32:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  08:35:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  08:54:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  08:55:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  10:12:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  10:12:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  10:12:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  10:15:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  10:27:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  10:28:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  15:36:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  15:36:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  15:36:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  15:39:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  15:50:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  15:51:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  15:54:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  15:54:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  15:54:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  15:57:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  15:59:00.5  XRT_Custom_430_OG [0x1ae]
2018/01/20  16:00:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  17:12:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  17:12:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  17:12:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  17:15:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  17:35:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  17:36:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  18:06:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  18:06:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  18:06:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/20  18:07:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/20  18:07:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/20  18:09:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/20  18:09:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/20  18:09:58.0  XRT_QT_PROG_SET_434_OG [0x1b2]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 12
2018/01/20  18:10:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  18:16:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  18:16:56.0  XRT_CTRL_MANU_402_OG [0x192]
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                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  18:16:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/20  18:17:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/20  18:17:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/20  18:17:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/20  18:17:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/20  18:17:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/20  18:17:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  18:19:56.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/20  18:19:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/20  18:20:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  18:49:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  18:49:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  18:49:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  18:52:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  19:12:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  19:13:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  20:26:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  20:26:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  20:26:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  20:29:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  20:49:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  20:50:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  22:03:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  22:03:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  22:03:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  22:06:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  22:26:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/20  22:27:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/20  23:41:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/20  23:41:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/20  23:41:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/20  23:44:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/20  23:55:00.5  XRT_Custom_430_OG [0x1ae]
2018/01/20  23:56:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  01:11:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  01:11:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  01:11:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  01:14:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  01:24:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  01:25:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  02:40:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  02:40:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  02:40:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  02:43:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  03:00:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  03:01:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  04:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  04:08:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  04:08:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
```

```
2018/01/21  04:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  04:37:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  04:38:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  05:48:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  05:48:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  05:48:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  05:51:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  06:15:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  06:16:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  06:24:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  06:24:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  06:24:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/21  06:24:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/21  06:24:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/21  06:27:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/21  06:27:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/21  06:27:28.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/21  06:27:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  06:34:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  06:34:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  06:34:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/21  06:34:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/21  06:34:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/21  06:34:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/21  06:34:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/21  06:34:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/21  06:34:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  06:37:26.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/21  06:37:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/21  06:37:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  07:28:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  07:28:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  07:28:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  07:31:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  07:52:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  07:53:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  09:08:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  09:08:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  09:08:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  09:11:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  09:28:01.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  09:29:01.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  10:49:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  10:49:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  10:49:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  10:52:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  10:57:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  10:58:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  14:37:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
```

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2018/01/21  14:37:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  14:37:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  14:40:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  14:44:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  14:45:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  16:10:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  16:10:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  16:10:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  16:13:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  16:34:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  16:35:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  17:47:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  17:47:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  17:47:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  17:50:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  18:10:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  18:10:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  18:10:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                   XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/21  18:10:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                   AOCU_NM              5 02-76 00 00 00 00 00
2018/01/21  18:10:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                   MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/21  18:13:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                   MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/21  18:13:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/21  18:13:28.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/21  18:13:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  18:20:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  18:20:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  18:20:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                   XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/21  18:20:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                   AOCU_NM              5 02-76 01 00 00 00 00
2018/01/21  18:20:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                   MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/21  18:20:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                   MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/21  18:20:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                   MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/21  18:20:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                   MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/21  18:20:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  18:23:26.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                   MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/21  18:23:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                   MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/21  18:23:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  19:24:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  19:24:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  19:24:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  19:27:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  19:47:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  19:48:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  21:01:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                   MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  21:01:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                   MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  21:01:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                   MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  21:04:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                   MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  21:24:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  21:25:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                   MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/21  22:38:30.0  XRT_CTRL_MANU_400_OG [0x190]
```

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                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/21  22:38:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/21  22:38:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/21  22:41:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/21  23:00:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/21  23:01:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  00:15:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  00:15:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  00:15:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  00:18:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  00:25:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  00:26:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  01:41:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  01:41:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  01:41:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  01:44:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  01:58:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  01:59:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  03:14:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  03:14:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  03:14:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  03:17:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  03:35:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  03:36:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  04:44:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  04:44:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  04:44:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  04:47:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  05:12:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  05:13:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  05:56:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  05:56:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  05:56:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/22  05:56:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/22  05:56:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/22  05:59:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/22  05:59:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/22  05:59:28.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/22  05:59:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  06:06:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  06:06:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  06:06:28.0  XRT_FOCUS_RECALIBRATE_416_OG [0x1a0]
                                        XRT_FOCUS_RECAL      2 07-F8 78 00
2018/01/22  06:06:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/22  06:10:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/22  06:10:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/22  06:10:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/22  06:10:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/22  06:10:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/22  06:10:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  06:13:26.0  XRT_QT_PROG_SET_442_OG [0x1ba]
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                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/22  06:13:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/22  06:13:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  06:24:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  06:24:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  06:24:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  06:27:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  06:50:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  06:51:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  08:04:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  08:04:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  08:04:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  08:07:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  08:27:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  08:28:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  09:44:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  09:44:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  09:44:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  09:47:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  09:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  09:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  09:59:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/22  10:00:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                        AOCU_NM              5 02-76 02 00 00 00 00
2018/01/22  10:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/22  10:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/22  10:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/22  10:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/22  10:00:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  10:02:56.0  XRT_QT_PROG_SET_429_OG [0x1ad]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2018/01/22  10:02:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/22  10:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  14:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  14:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  14:59:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/22  15:00:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/22  15:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/22  15:00:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/22  15:00:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/22  15:00:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/22  15:00:26.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  15:02:56.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/22  15:02:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/22  15:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  15:10:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  15:10:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  15:10:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  15:13:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  15:22:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  15:23:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
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                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  16:45:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  16:45:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  16:45:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  16:48:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  17:08:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  17:09:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  17:58:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  17:58:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  17:58:28.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/22  17:58:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2018/01/22  17:58:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/22  18:01:24.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/22  18:01:26.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/22  18:01:28.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2018/01/22  18:01:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  18:08:24.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  18:08:26.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  18:08:28.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2018/01/22  18:08:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 01 00 00 00 00
2018/01/22  18:08:48.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2018/01/22  18:08:50.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2018/01/22  18:08:52.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2018/01/22  18:08:54.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/22  18:08:56.0  XRT_FLD_RESET_433_OG [0x1b1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  18:11:26.0  XRT_QT_PROG_SET_442_OG [0x1ba]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 07
2018/01/22  18:11:28.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2018/01/22  18:11:30.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  18:22:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  18:22:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  18:22:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  18:25:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  18:45:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  18:46:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  19:59:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  19:59:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  19:59:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  20:02:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  20:22:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  20:23:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  21:36:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  21:36:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  21:36:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/22  21:39:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  21:59:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  22:00:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/22  23:13:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/22  23:13:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/22  23:13:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
```

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2018/01/22  23:16:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/22  23:33:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/22  23:34:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/23  00:50:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  00:50:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/23  00:50:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/23  00:53:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/23  00:58:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/23  00:59:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/23  02:13:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  02:13:32.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/23  02:13:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/23  02:16:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/23  02:33:00.0  XRT_Custom_430_OG [0x1ae]
2018/01/23  02:34:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/23  03:48:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  03:48:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/23  03:48:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/23  03:51:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/23  04:10:00.5  XRT_Custom_430_OG [0x1ae]
2018/01/23  04:11:00.5  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/23  05:20:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  05:20:02.0  XRT_FLD_RESET_415_OG [0x19f]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2018/01/23  05:20:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2018/01/23  05:23:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2018/01/23  05:47:30.0  XRT_Custom_430_OG [0x1ae]
2018/01/23  05:48:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/23  05:59:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  05:59:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  05:59:58.0  XRT_FOCUS_POSITION_403_OG [0x193]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2018/01/23  06:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2018/01/23  06:00:18.0  XRT_FLD_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2018/01/23  06:02:54.0  XRT_FLRCTRL_DIS_405_OG [0x195]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2018/01/23  06:02:56.0  XRT_ARS_DIS_423_OG [0x1a7]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2018/01/23  06:02:58.0  XRT_QT_PROG_SET_434_OG [0x1b2]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 12
2018/01/23  06:03:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2018/01/23  06:10:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 01 00 00 00 00
2018/01/23  06:15:00.0  XRT_CTRL_MANU_431_OG [0x1af]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  06:15:30.0  XRT_TCIB_XRT_S_HTR_A_ENA_439_OG [0x1b7]
                                    TCIB_XRT_S_HTR_A_ENA 0 04-BC
2018/01/23  11:25:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2018/01/23  11:26:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
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