

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20639 - L2 Version 2
Chandra X-Ray Center

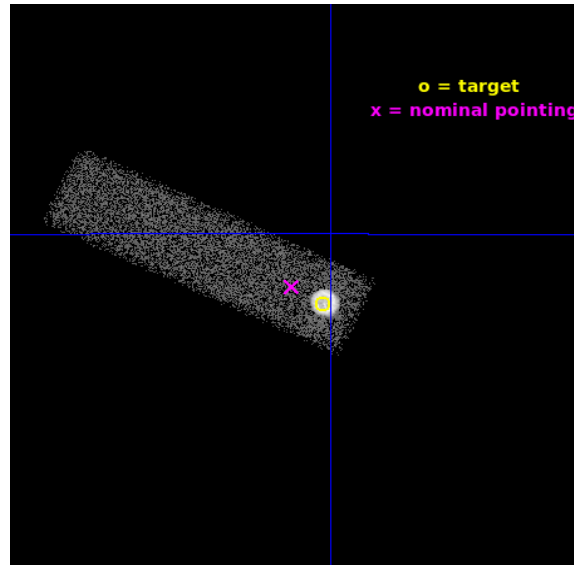
L2 Processing Date : Oct 24 2020

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1 Front

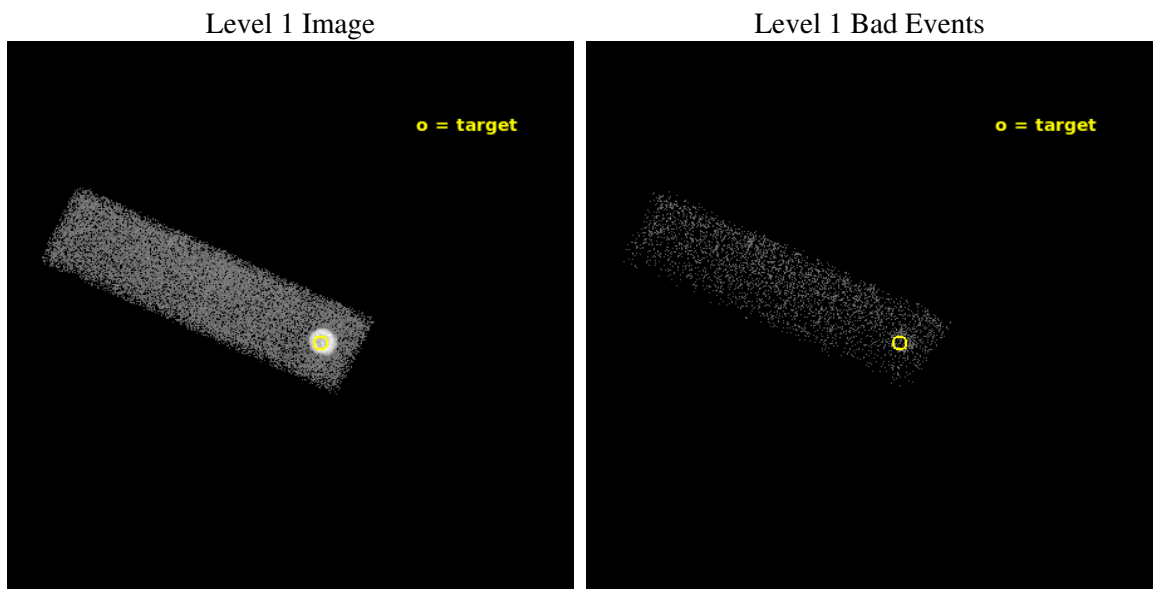
seq_num	590557	Sequence number
obs_id	20639	Observation id
title	AO-19 Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.053994300044	Nominal RA [deg]
dec_nom	-72.024193936738	Nominal Dec [deg]
roll_nom	205.13604492242	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15060.469085336	Sum of GTIs [s]
livetime	14325.567473924	Livetime [s]
ontime7	15060.469085336	Sum of GTIs [s]
l2events	49103	Number of level 2 events



2 OBI

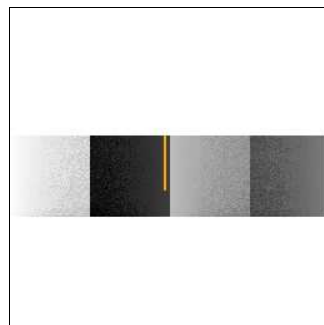
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	15060.469085336	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	15060.469085336	Sum of GTIs [s]
date	2020-10-25T03:00:03	Date and time of file creation	l1events	63891	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

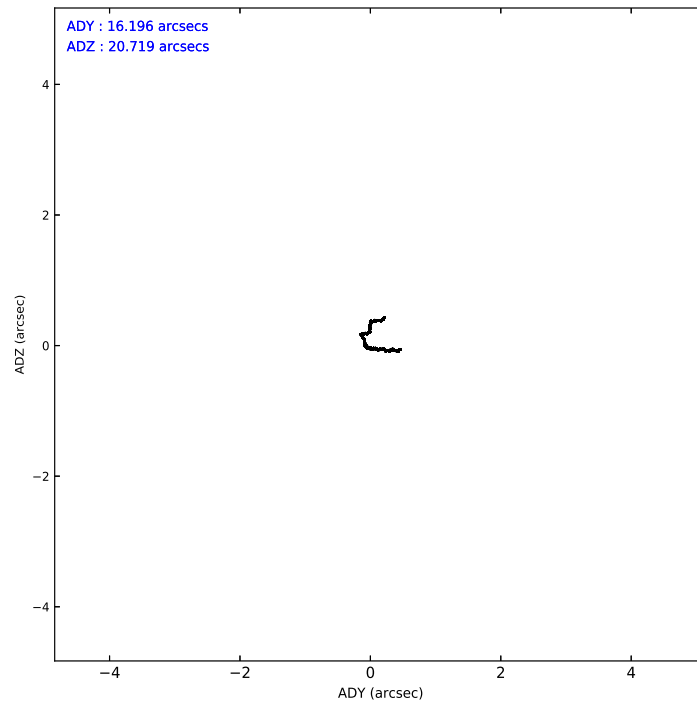
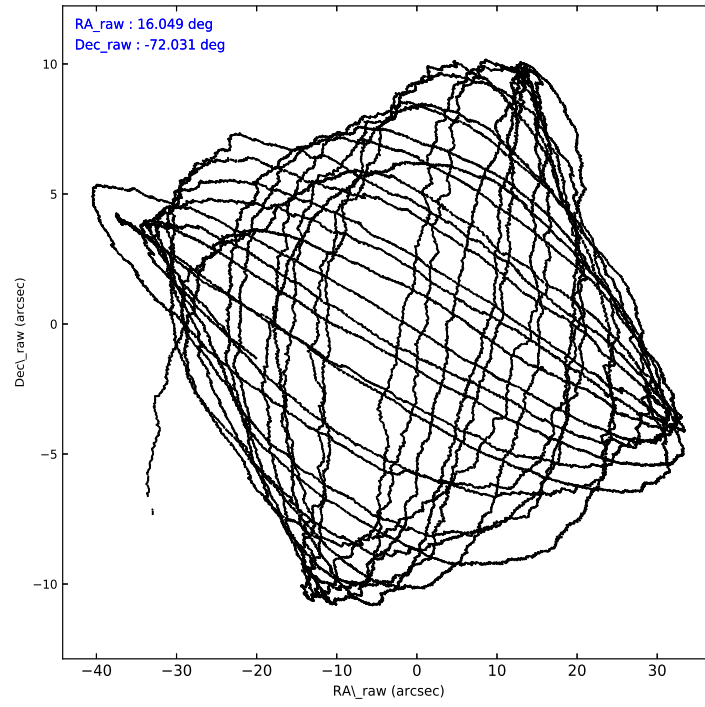
	ccd 7
level 1 events	63891
rejected events	14258
rejected %	22%

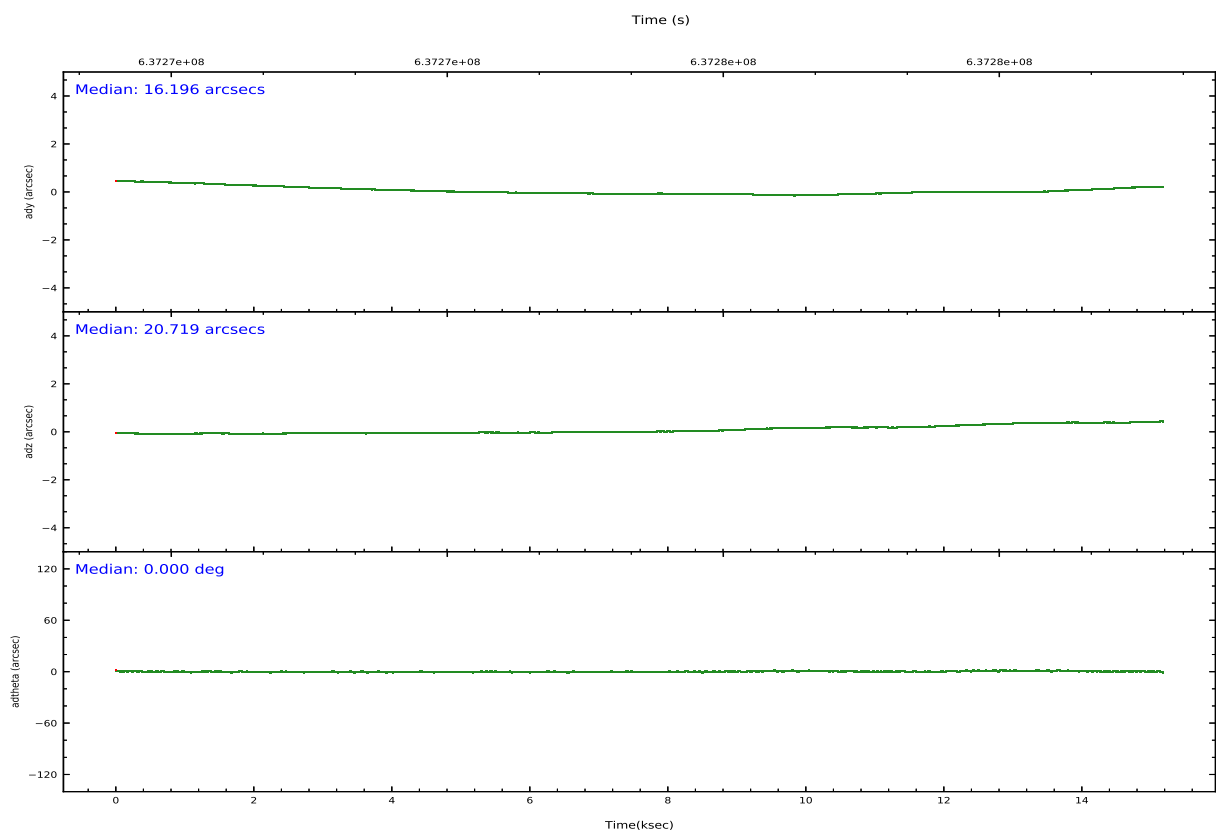
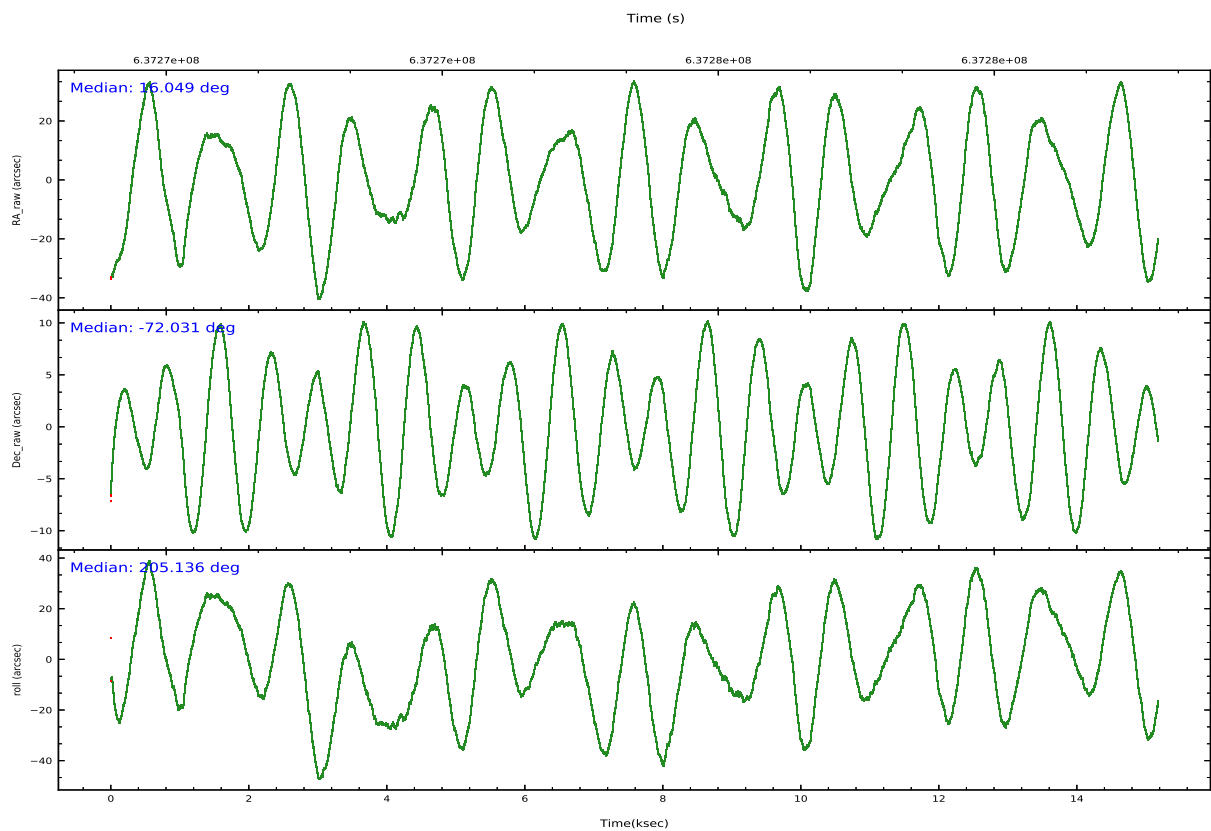
	ccd 7
grade 0 events	11558
	18%
grade 1 events	77
	0%
grade 2 events	13102
	20%
grade 3 events	6125
	9%
grade 4 events	5547
	8%
grade 5 events	3343
	5%
grade 6 events	13306
	20%
grade 7 events	10833
	16%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.098068	16.053994300044	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.008897	-72.024193936738	Subarray start row	360	360
[deg] Pointing Roll	205.038187	205.13604492242	Subarray row count	256	256
[s] Window start time (MET)	633830469.184000	633830469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	638841669.184000	638841669.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-189.177923	-189.1745689740729			
[mm] SIM translation stage offset	-0.9546	-0.9579536089349574			
[s] Observation start time (MET)	637267374.184000	637266672.53714			
Observation start date	2018-03-12T18:41:45	2018-03-12T18:31:12			
[s] Observation end time (MET)	637282374.184000	637282507.76307			
Observation end date	2018-03-12T22:51:45	2018-03-12T22:55:07			
Read mode	TIMED	TIMED			

2.3 Aspect



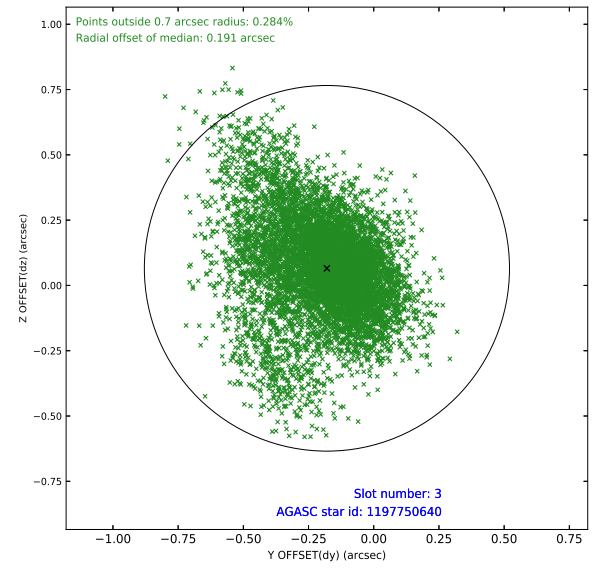
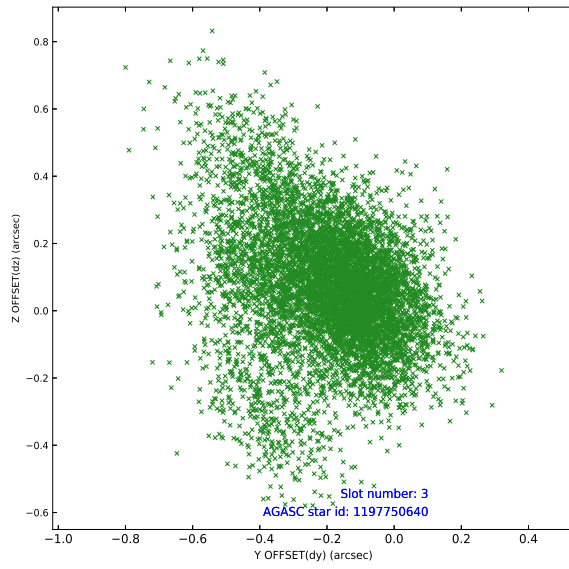


Slot Statistics

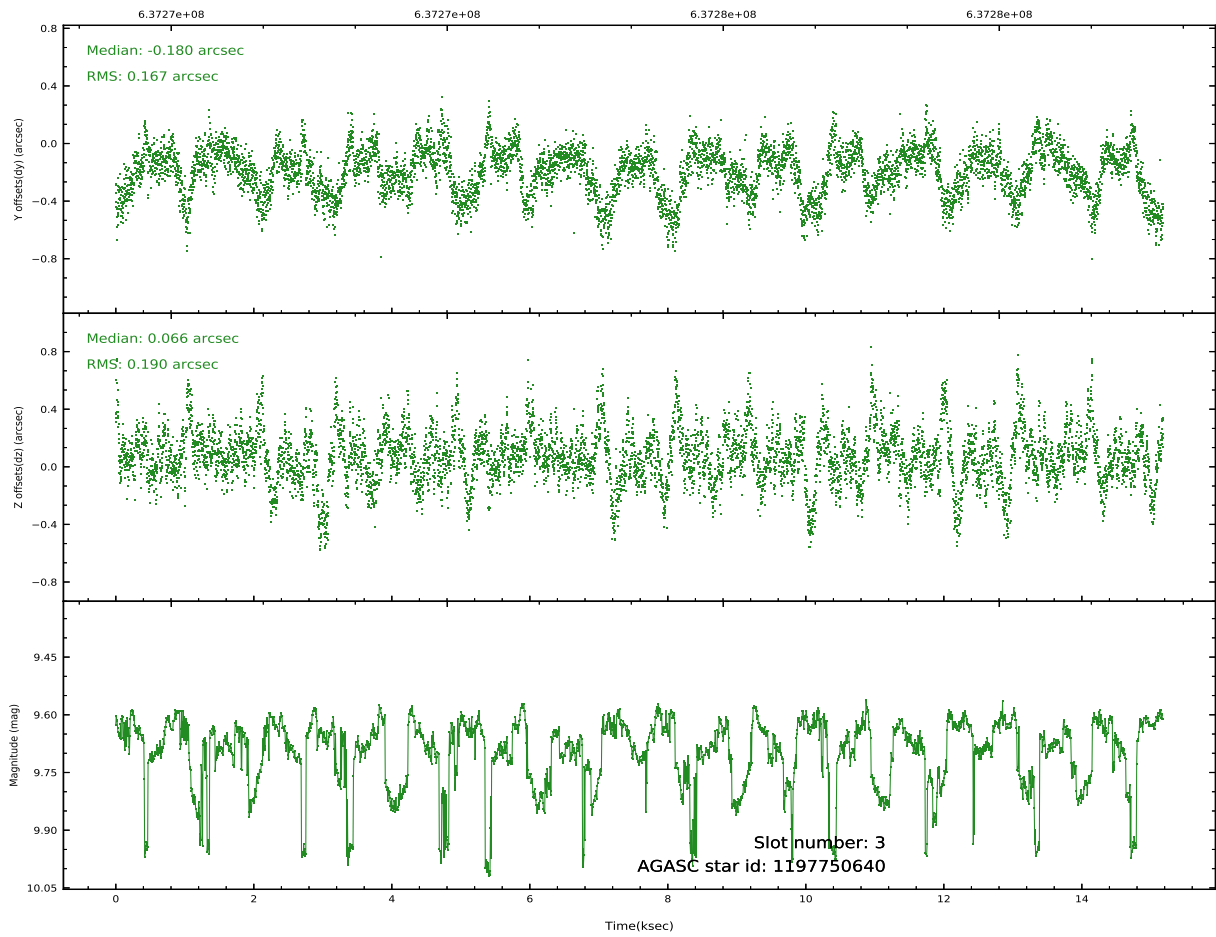
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.93	3703	1.000	0.063	-0.018	0.010	0.017	0.000000	0.000000	-769.25	-1762
1	FID		ACIS-S-4	7.04	3702	1.000	0.065	-0.025	0.007	0.013	0.000000	0.000000	2144.02	145
2	FID		ACIS-S-5	7.06	3703	1.000	-0.159	0.051	0.009	0.015	0.000000	0.000000	-1821.81	140
3	GUIDE	used	1197750640	9.68	7386	1.000	-0.180	0.066	0.254	0.477	15.758835	-72.088048	461.77	100
4	GUIDE	used	1197884712	8.27	7403	1.000	-0.105	-0.082	0.145	0.253	16.087398	-72.252690	382.32	790
5	GUIDE	used	1197885104	9.32	7389	1.000	0.183	0.035	0.189	0.322	17.845067	-72.189368	-1454.34	1428
6	GUIDE	used	1197885328	7.23	7405	1.000	0.315	0.137	0.129	0.220	16.283090	-71.733943	-609.24	-807
7	GUIDE	used	1198189696	7.33	7401	1.000	-0.190	-0.165	0.146	0.262	15.223750	-72.697522	1899.91	1856

2.4 Star Slots

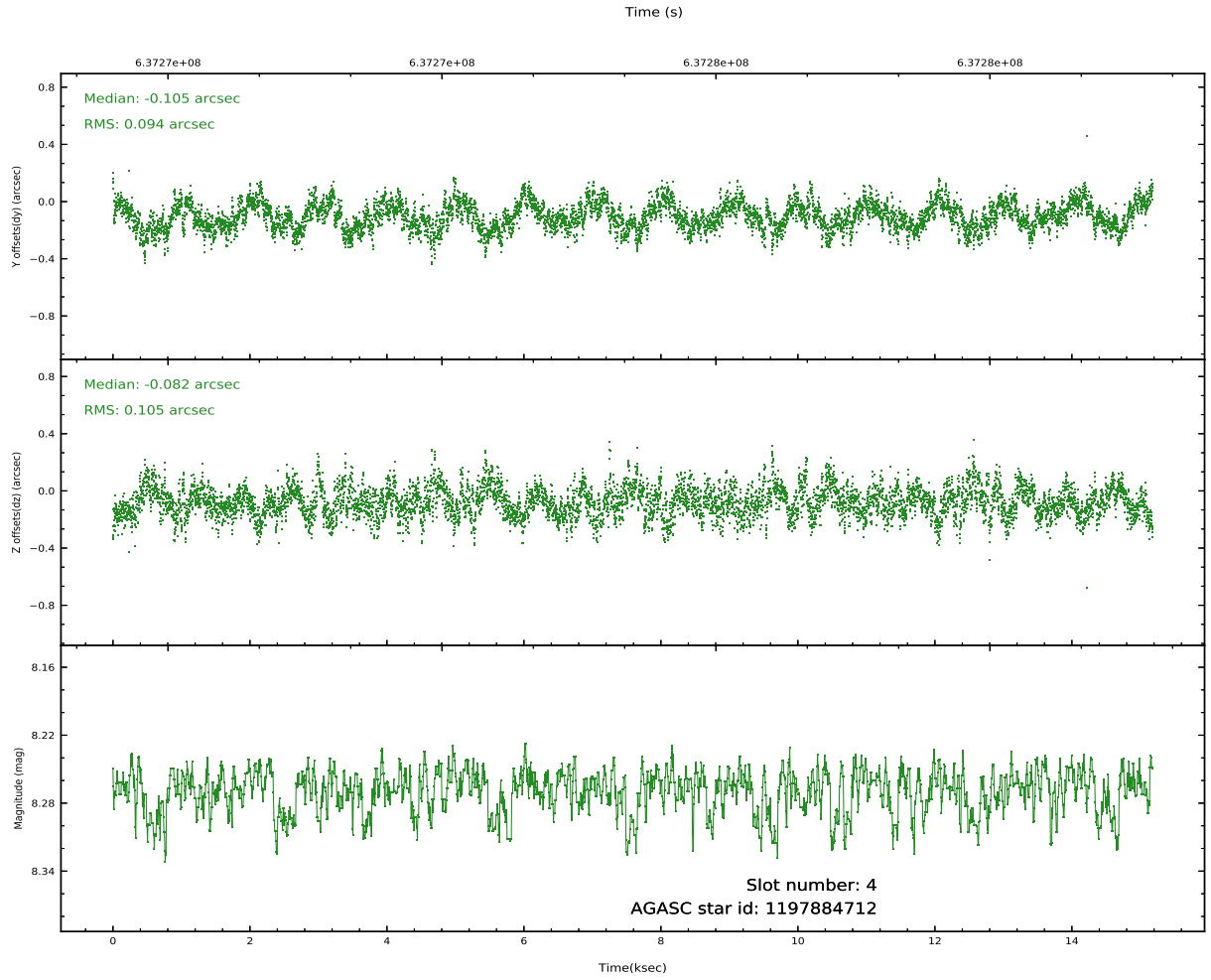
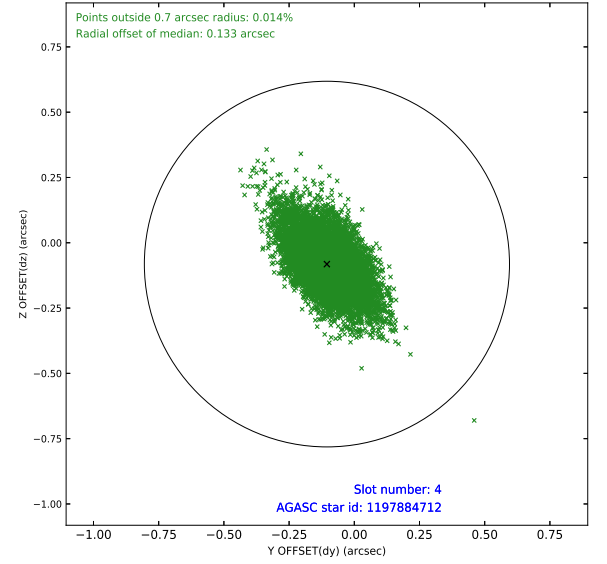
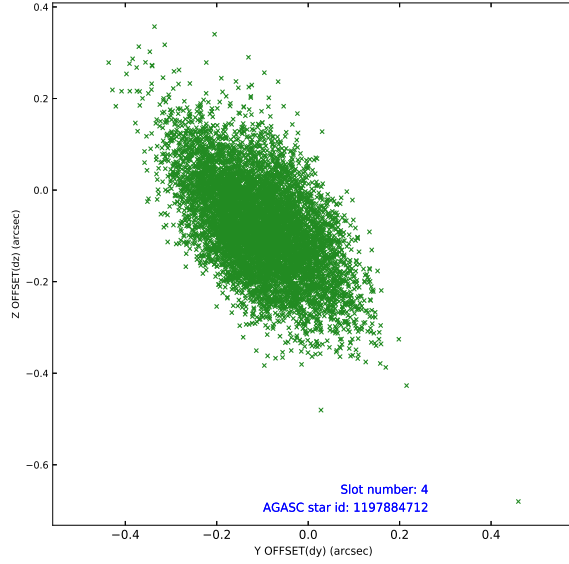
2.4.1 Slot 3



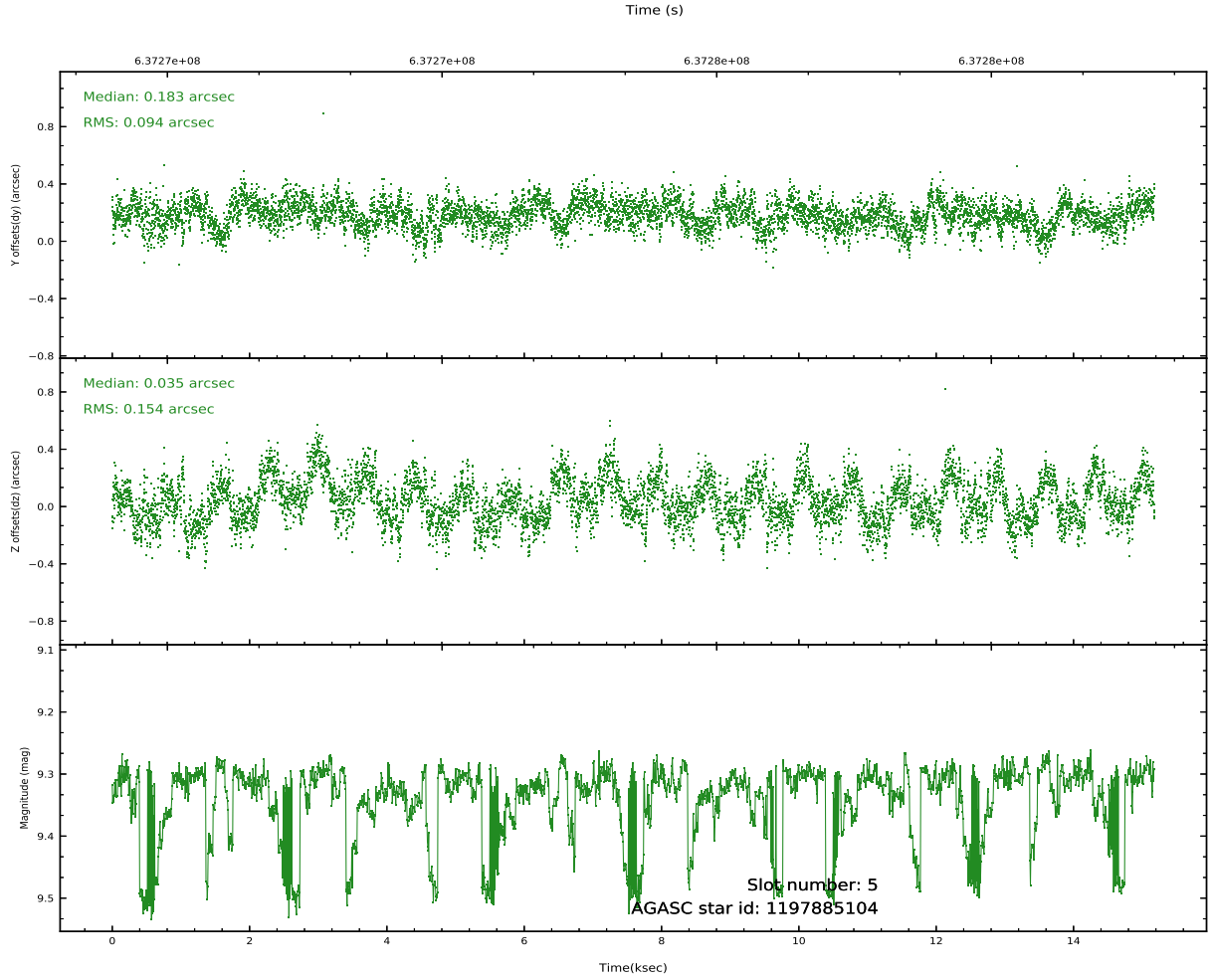
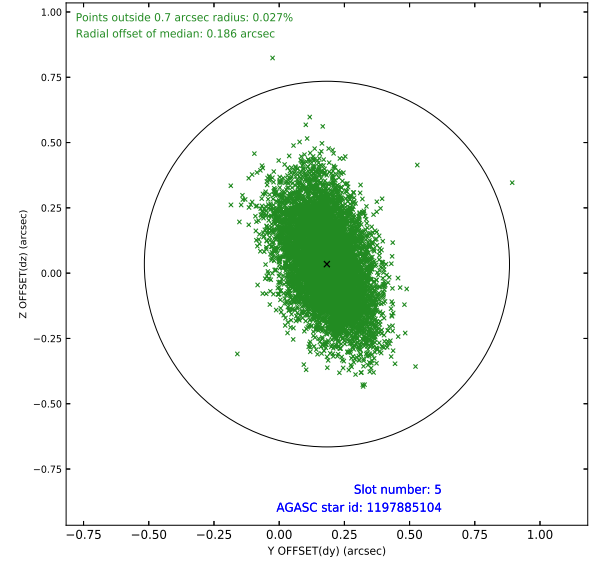
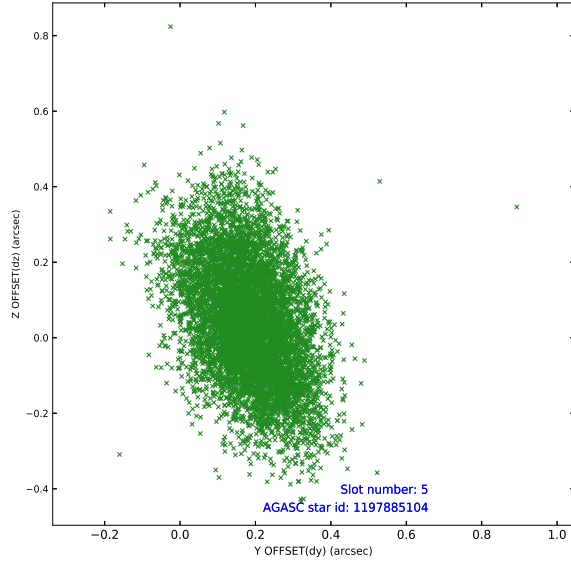
Time (s)



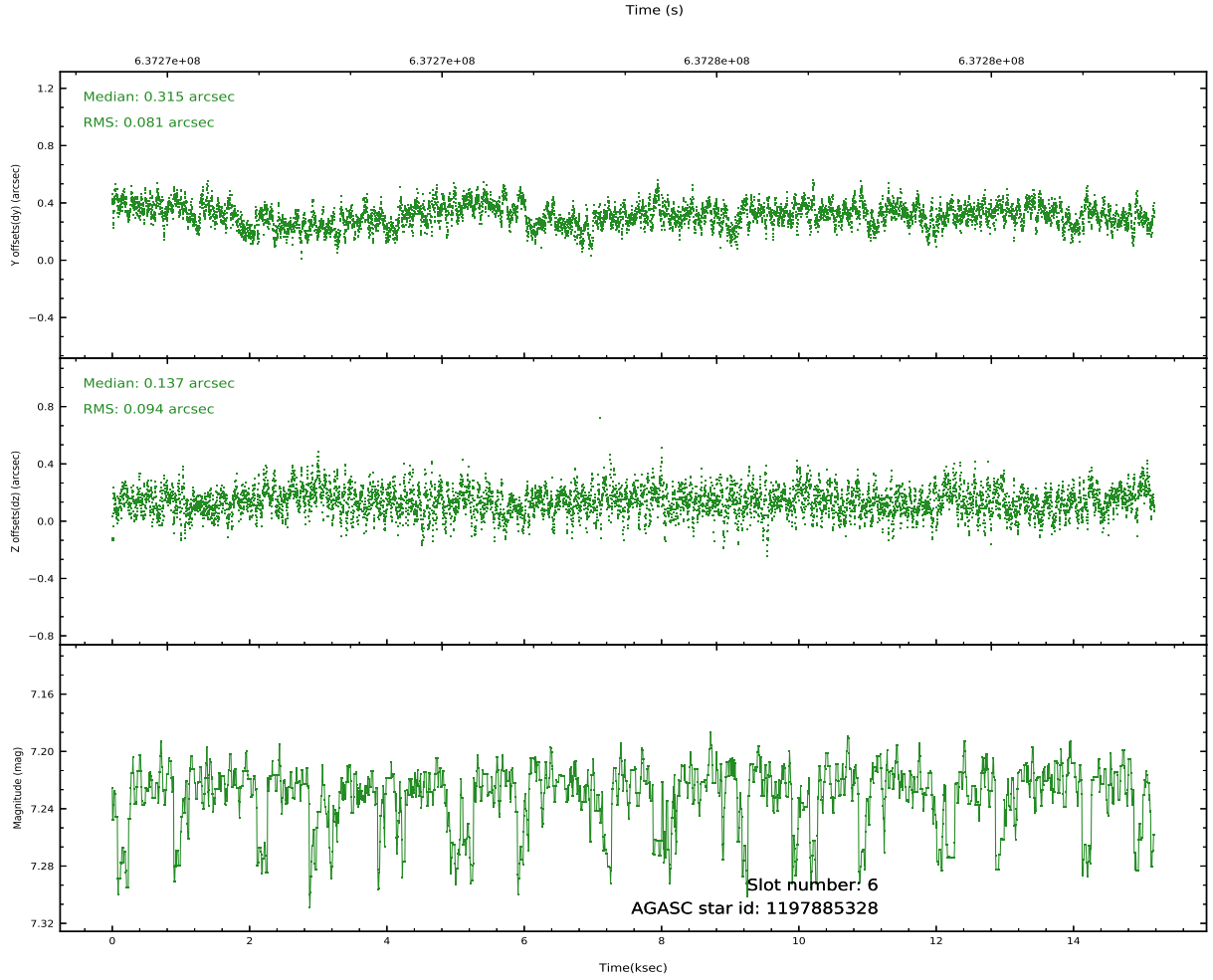
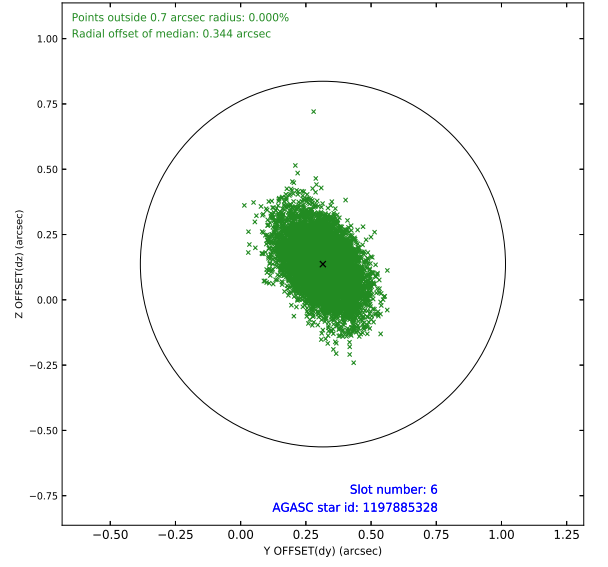
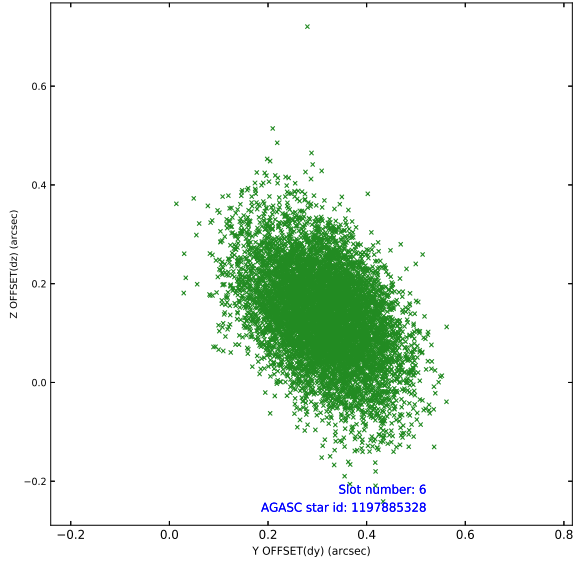
2.4.2 Slot 4



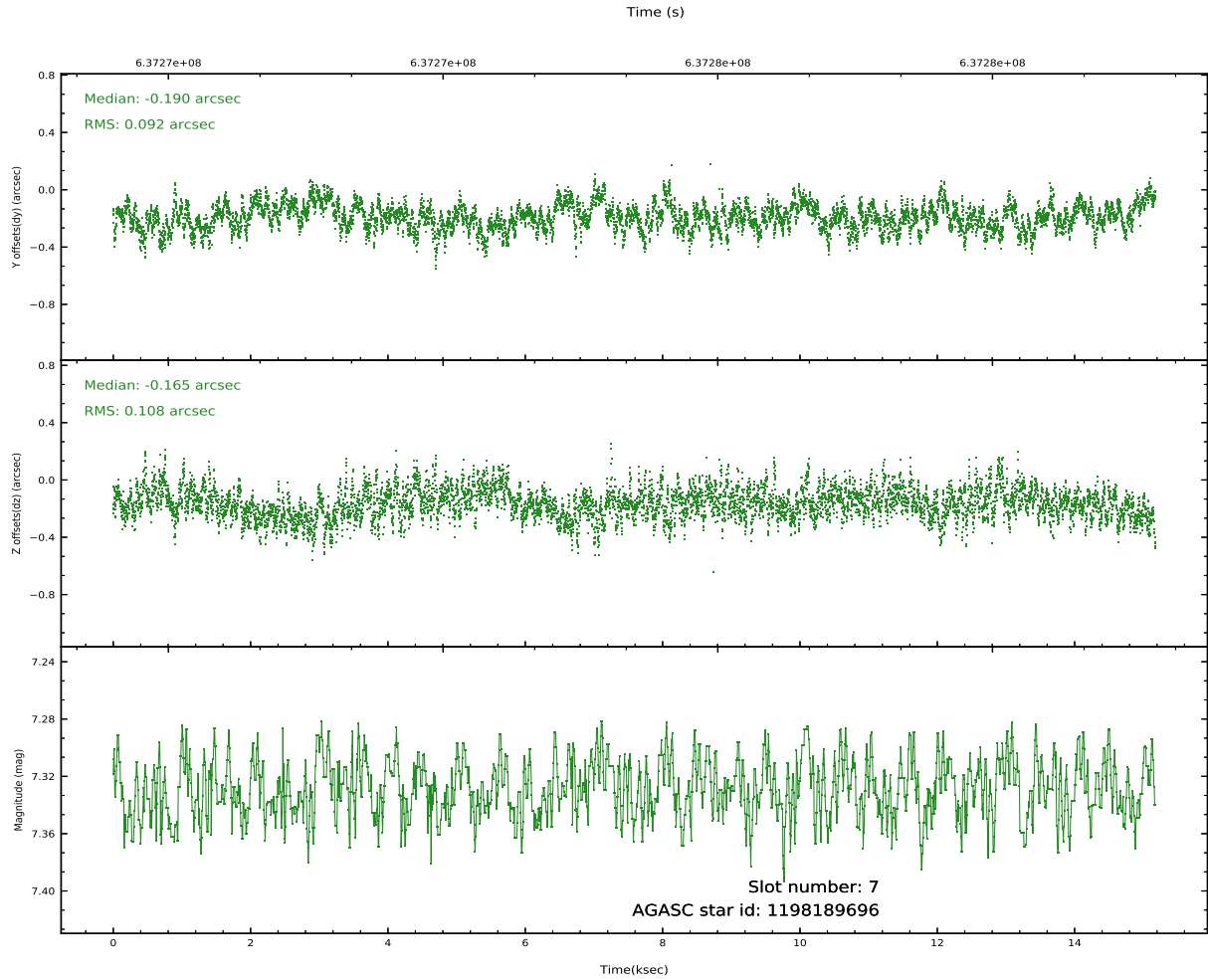
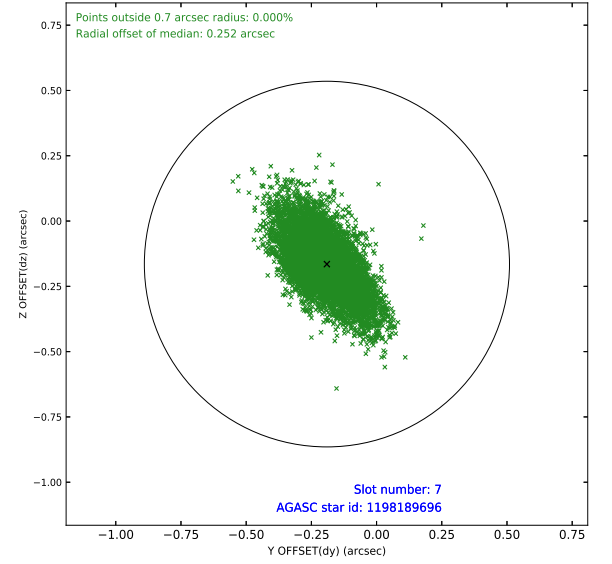
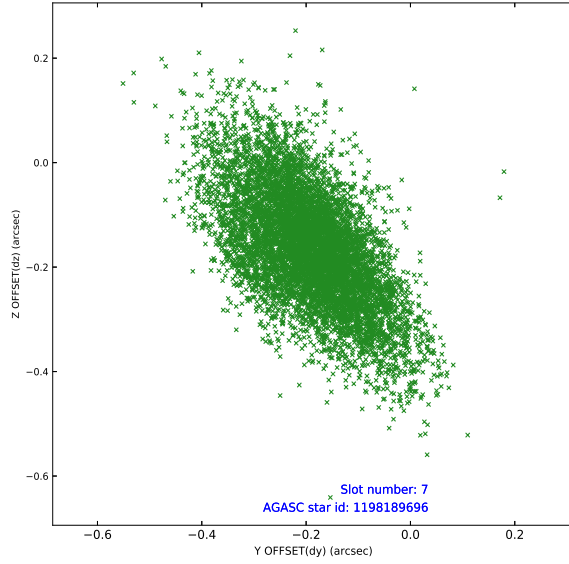
2.4.3 Slot 5



2.4.4 Slot 6

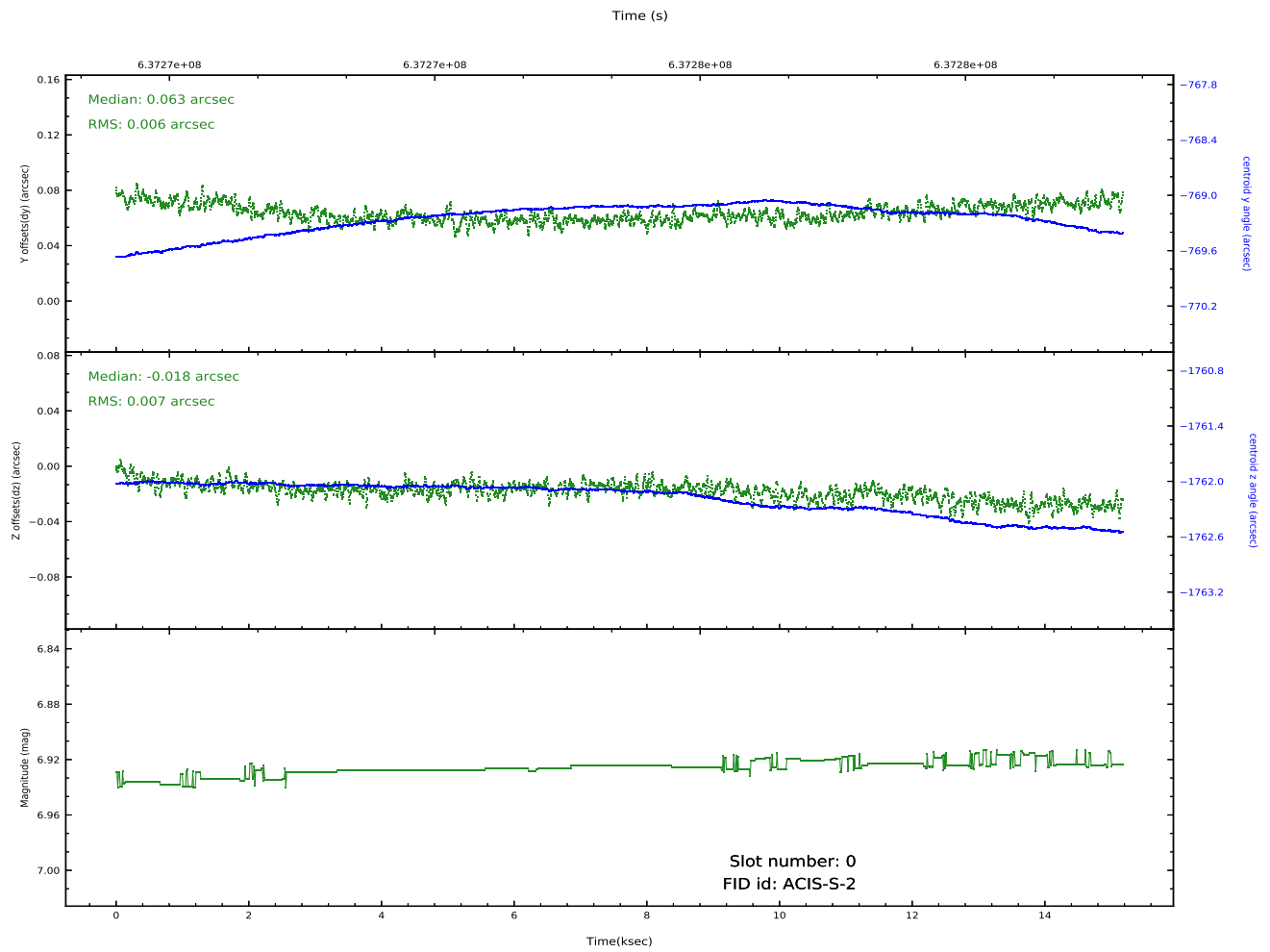
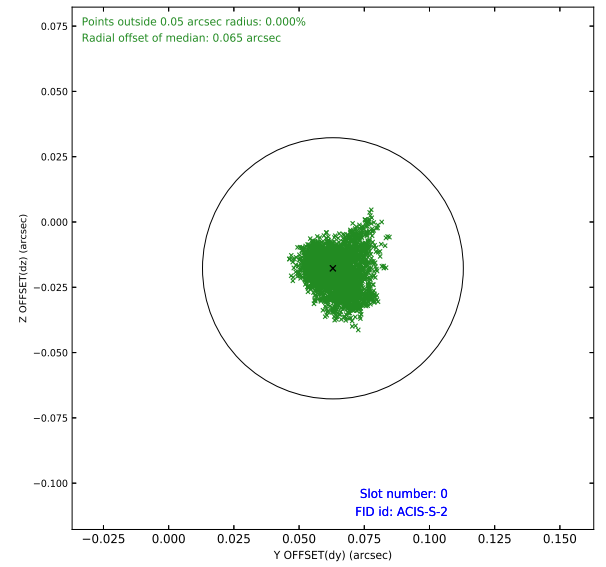
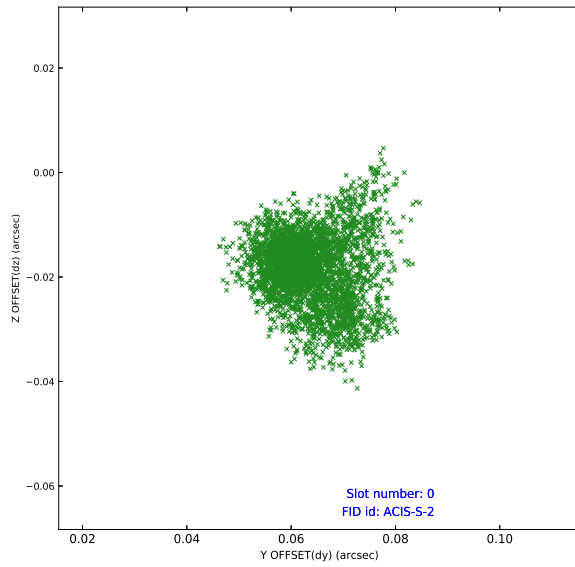


2.4.5 Slot 7

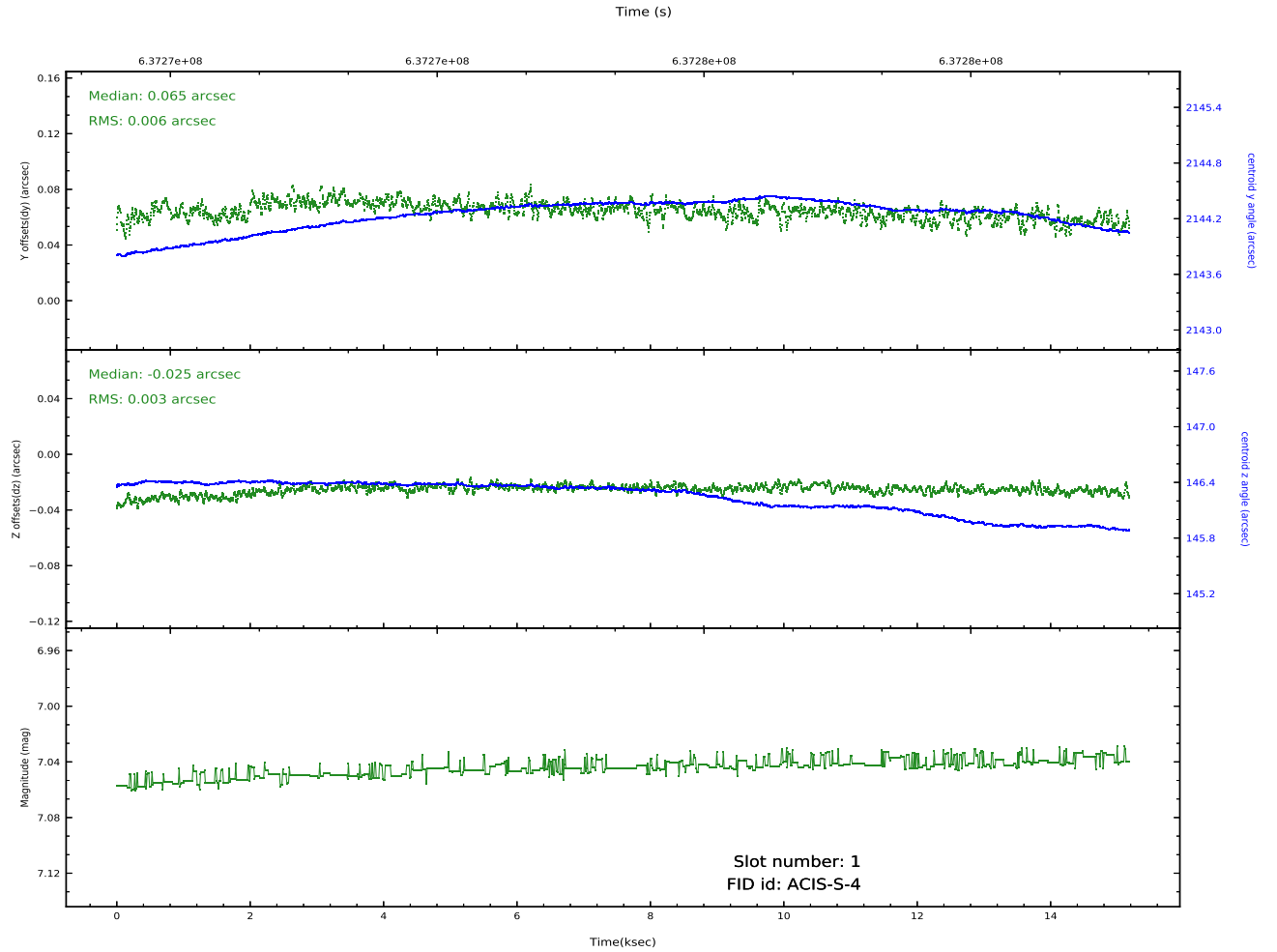
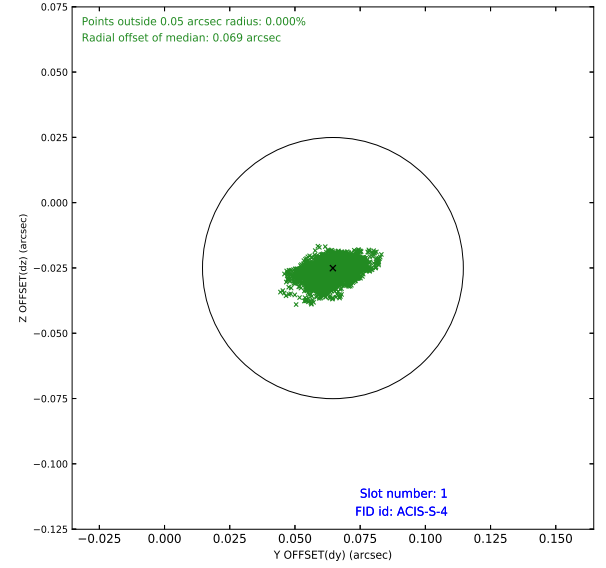
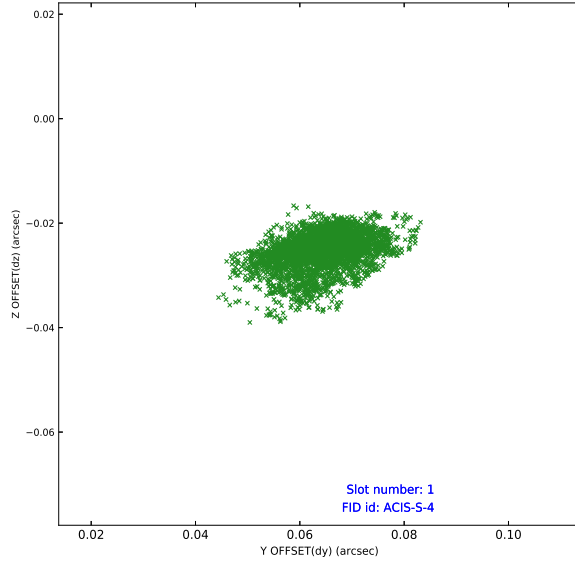


2.5 FID Slots

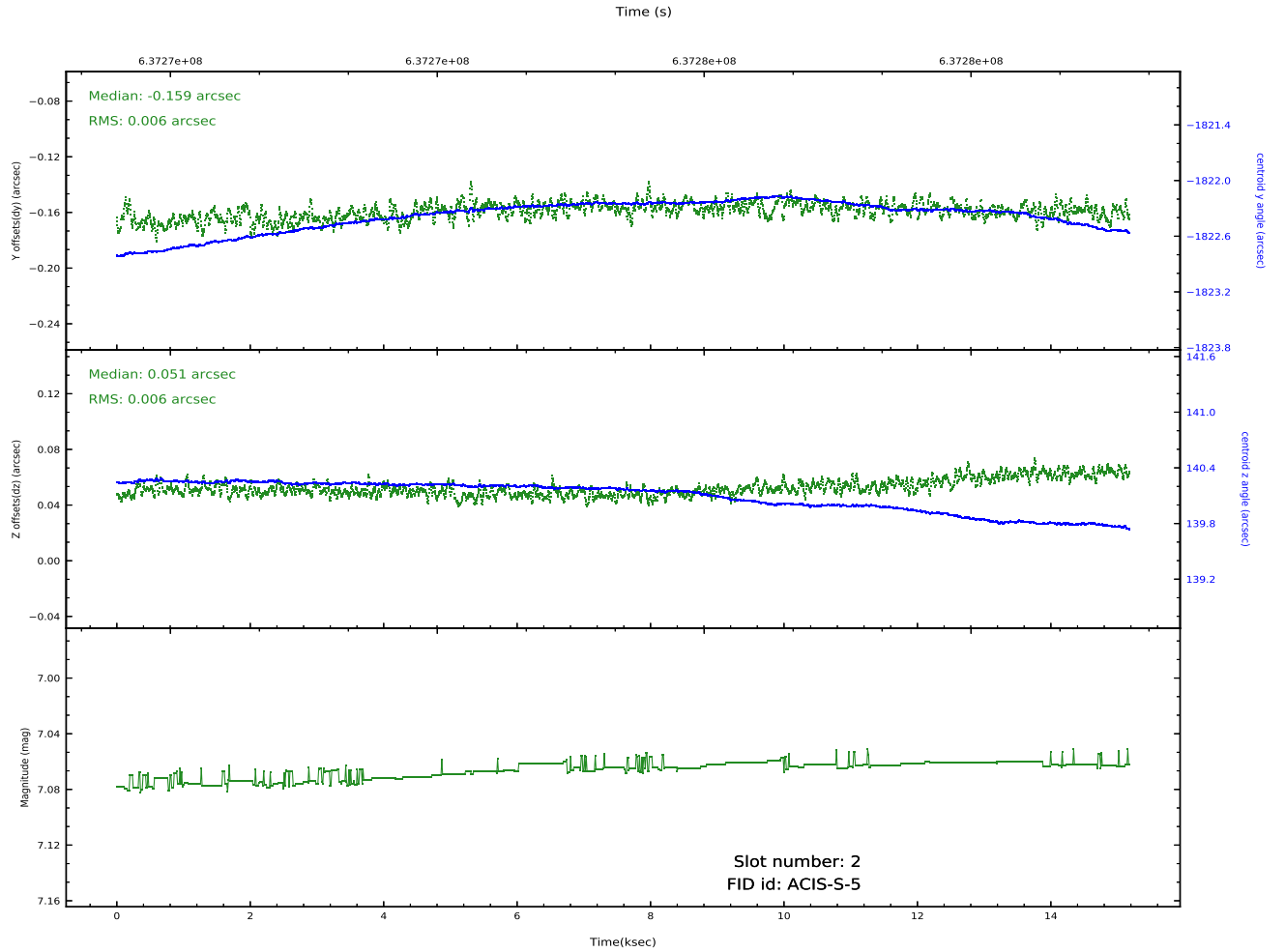
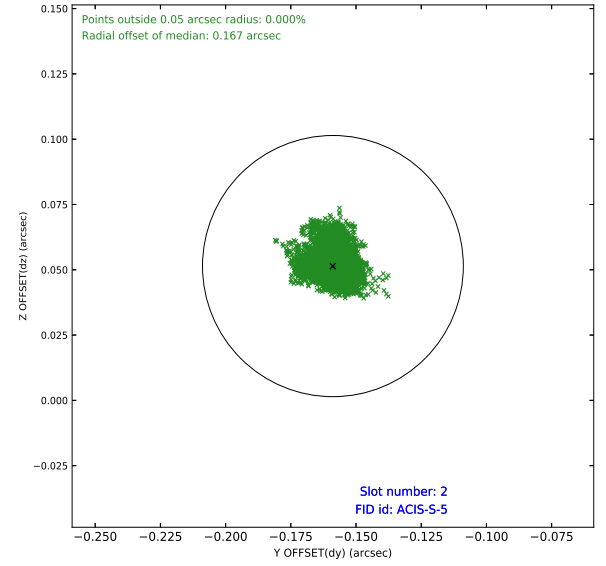
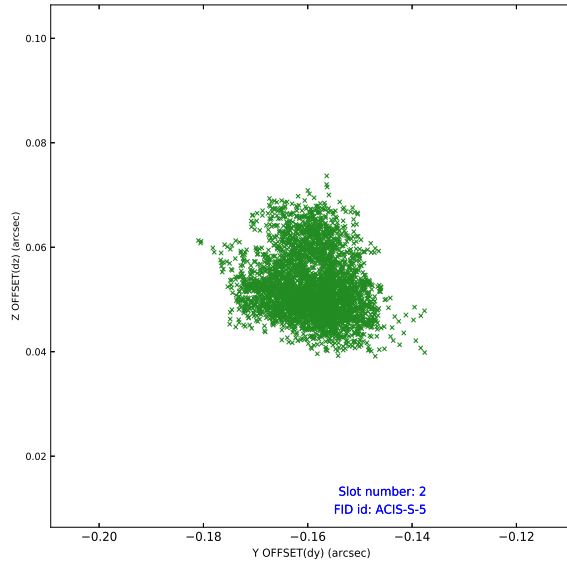
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.06046908319

A.2 Comments

Window constraint was met.