

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5760 - L2 Version 6
Chandra X-Ray Center

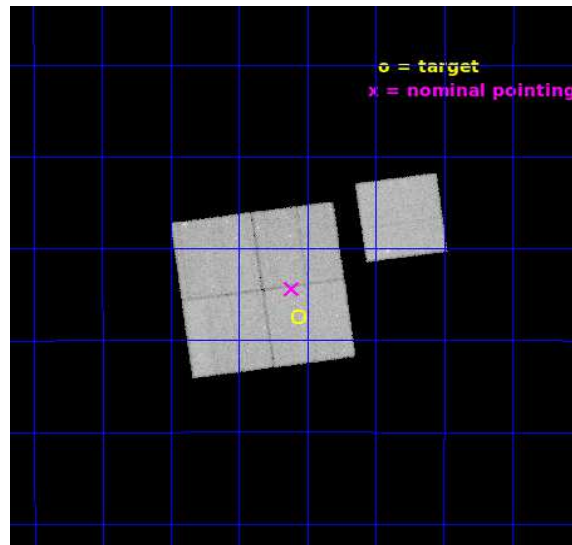
L2 Processing Date : Oct 10 2020

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1 Front

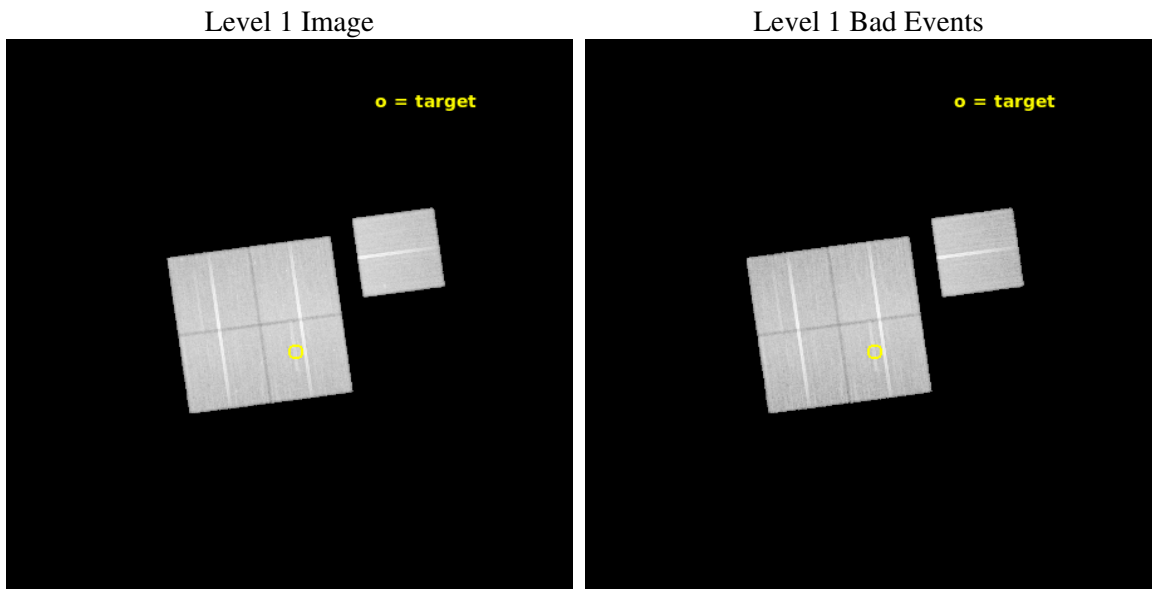
seq_num	800473	Sequence number
obs_id	5760	Observation id
title	DARK ENERGY WITH X-RAY CLUSTERS: CHANDRA OBSERVATIONS OF 41 HIGH-REDSHIFT CLUSTERS FROM THE 400 deg ² ROSAT PSPC SURVEY	Proposal titl
observer	Dr Alexey Vikhlinin	Principal investigator
object	CIG J0216-1747	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	34.140417	Observer's specified target RA [deg]
dec_targ	-17.790833	Observer's specified target Dec [deg]
ra_nom	34.153177066119	Nominal RA [deg]
dec_nom	-17.739856146579	Nominal Dec [deg]
roll_nom	82.110132065633	Nominal Roll [deg]
revision	6	Processing version of data
ontime	40542.847203165	Sum of GTIs [s]
livetime	40013.125057246	Livetime [s]
ontime0	40580.416085273	Sum of GTIs [s]
ontime1	40574.17519471	Sum of GTIs [s]
ontime2	40486.267661721	Sum of GTIs [s]
ontime3	40542.847203165	Sum of GTIs [s]
ontime6	40586.656936437	Sum of GTIs [s]
l2events	275911	Number of level 2 events



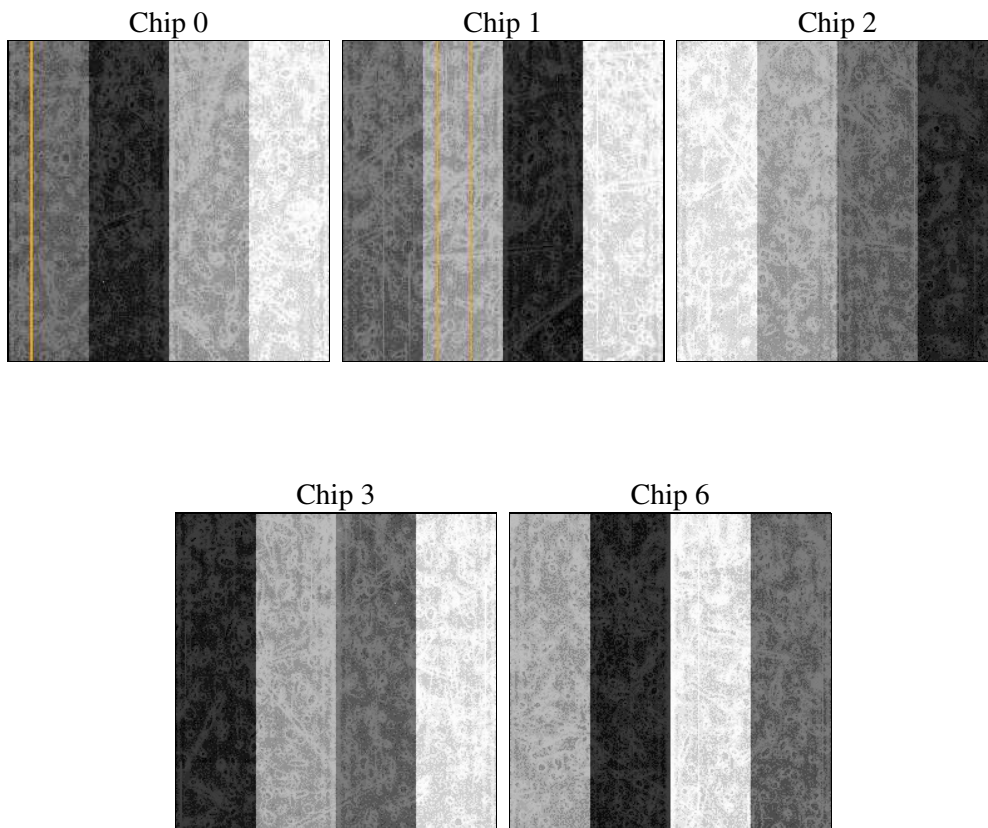
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	62000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40542.847203165	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	40580.416085273	Sum of GTIs [s]
date	2020-10-10T08:11:10	Date and time of file creation	ontime1	40574.17519471	Sum of GTIs [s]
revision	6	Processing version of data	ontime2	40486.267661721	Sum of GTIs [s]
			ontime3	40542.847203165	Sum of GTIs [s]
			ontime6	40586.656936437	Sum of GTIs [s]
			l1events	1639902	Number of level 1 events

2.1.4 Events

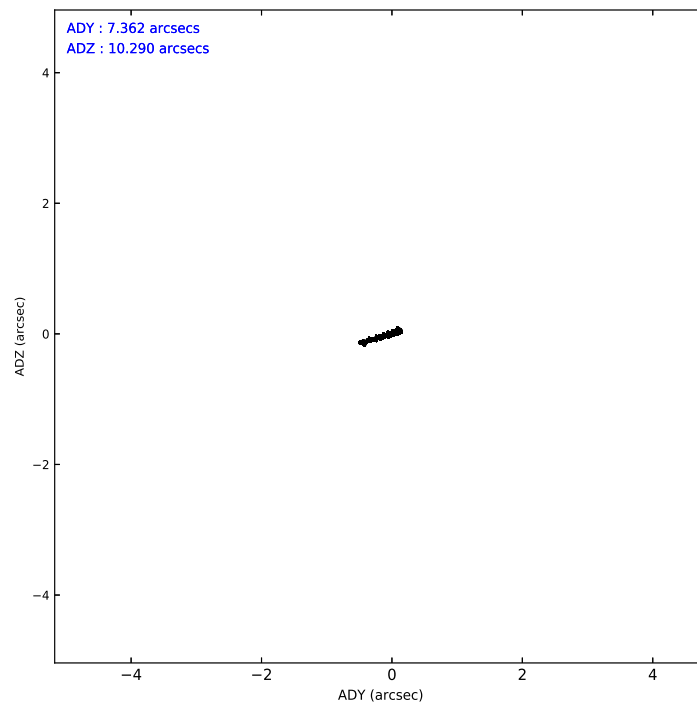
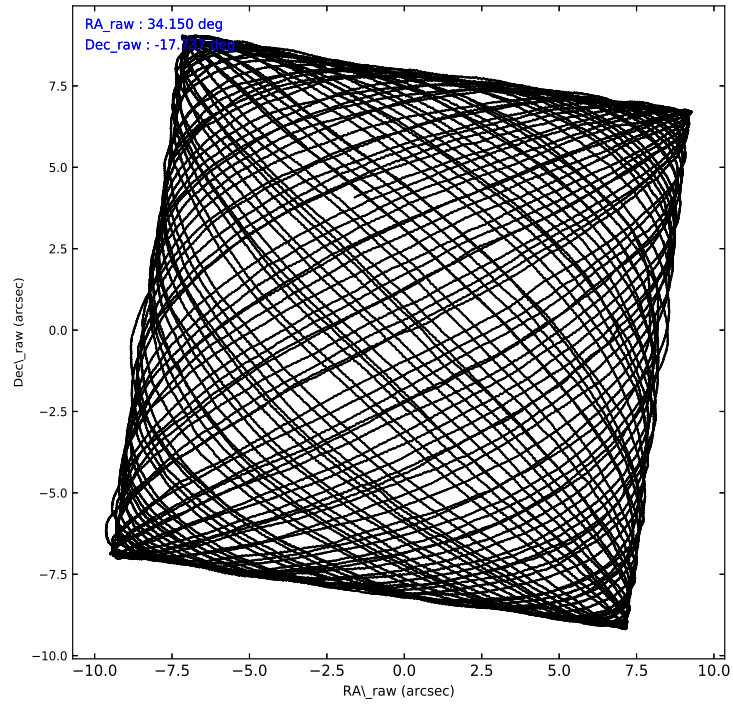
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	313860	312800	346958	328090	338194
rejected events	253917	248426	287544	267039	270663
rejected %	80%	79%	82%	81%	80%

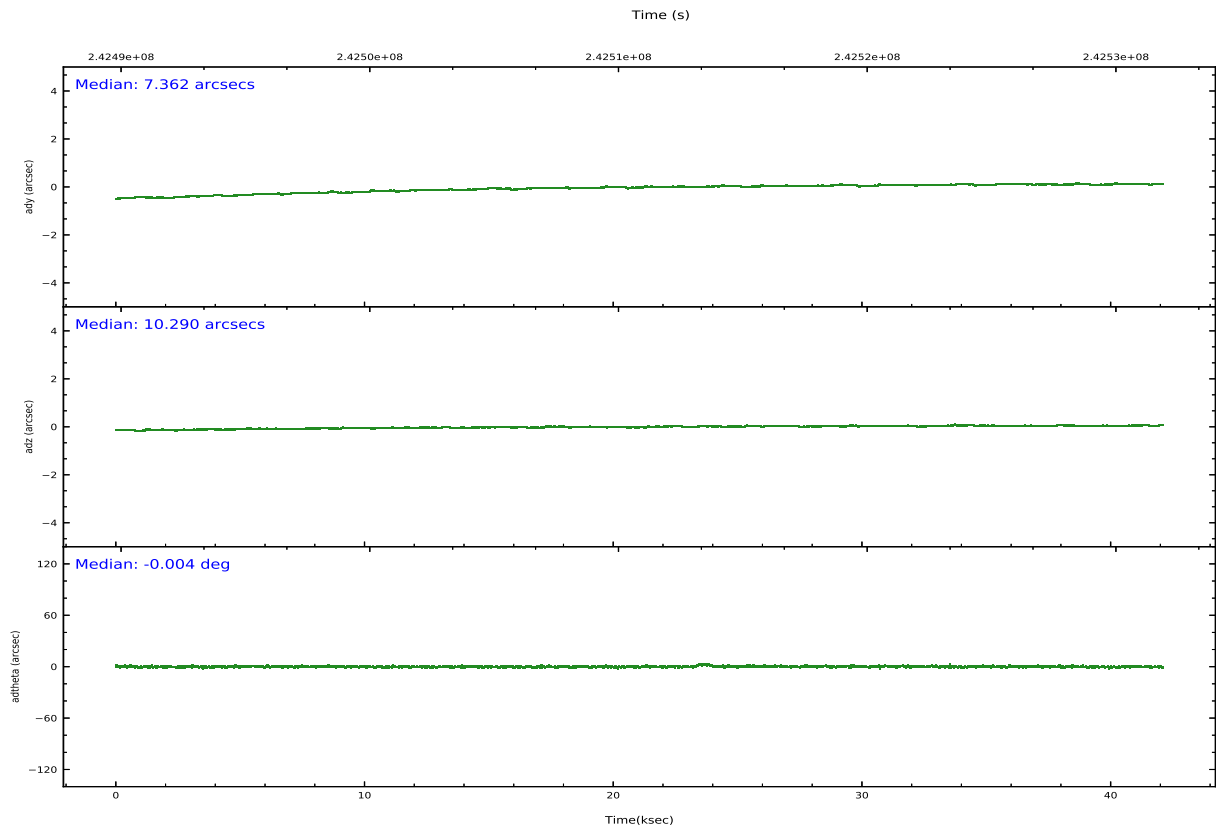
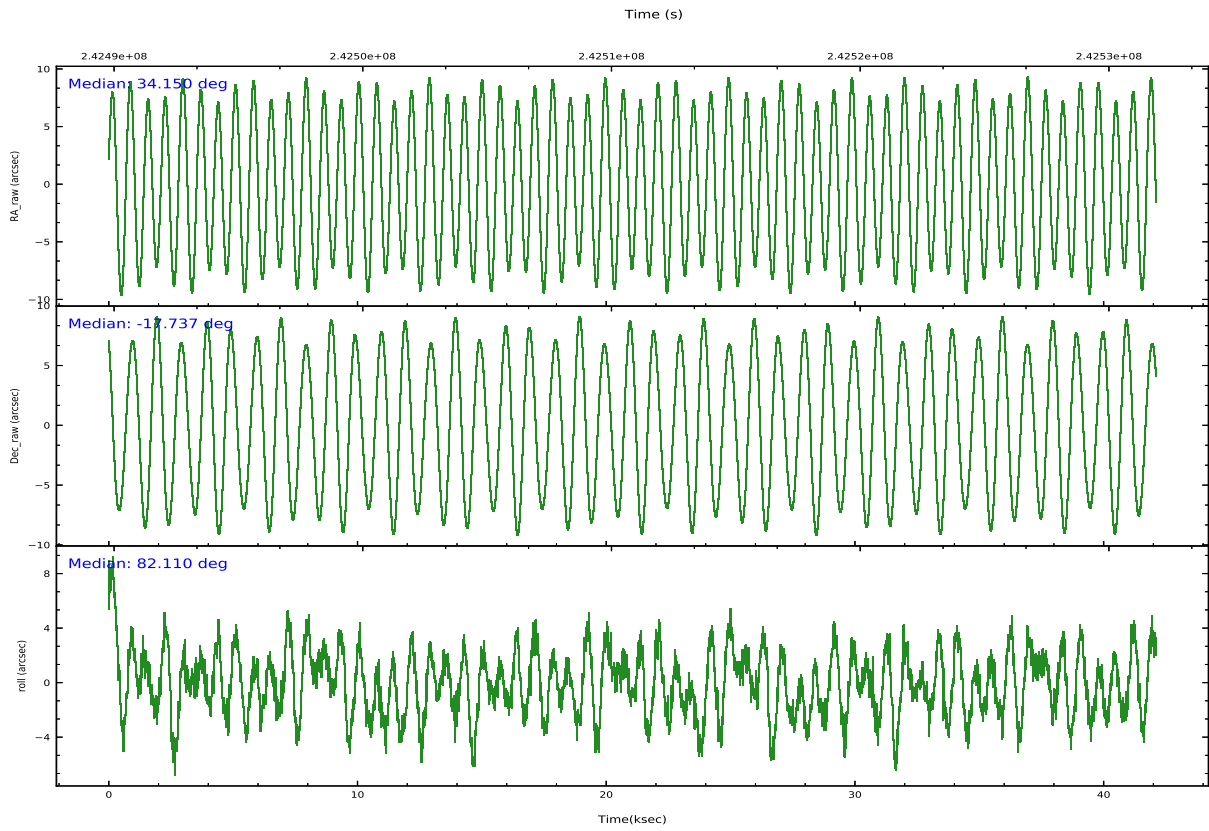
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	21391	23375	22321	22463	23312
	6%	7%	6%	6%	6%
grade 1 events	247	199	279	256	231
	0%	0%	0%	0%	0%
grade 2 events	12300	12862	11430	11625	12413
	3%	4%	3%	3%	3%
grade 3 events	5430	5603	5279	5537	5596
	1%	1%	1%	1%	1%
grade 4 events	5235	5598	5379	5435	5702
	1%	1%	1%	1%	1%
grade 5 events	8915	10245	8523	10432	10698
	2%	3%	2%	3%	3%
grade 6 events	15631	17003	15057	16024	20570
	4%	5%	4%	4%	6%
grade 7 events	244711	237915	278690	256318	259672
	77%	76%	80%	78%	76%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
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	34.161237	34.153177066119	Subarray requested	NONE	NONE
[deg] Pointing Dec	-17.762676	-17.739856146579	Alternating exposures requested	N	N
[deg] Pointing Roll	81.911653	82.110132065633	[s] Primary exposure time	3.1	3.1
[mm] SIM focus pos	-0.7809083437167272	-0.7809083437167272			
[mm] SIM defocus	0.001439854621705816	0.001439854621705816			
[mm] SIM translation stage pos	-225.8458576473255	-225.8458576473255			
[mm] SIM translation stage offset	-7.746605444106308	-7.746605444106308			
[s] Observation start time (MET)	242489787.184000	242489787.184			
Observation start date	2005-09-07T14:15:23	2005-09-07T14:16:27			
[s] Observation end time (MET)	242531939.000000	242531939			
Observation end date	2005-09-08T01:58:59	2005-09-08T01:58:58			
Read mode	TIMED	TIMED			

2.3 Aspect





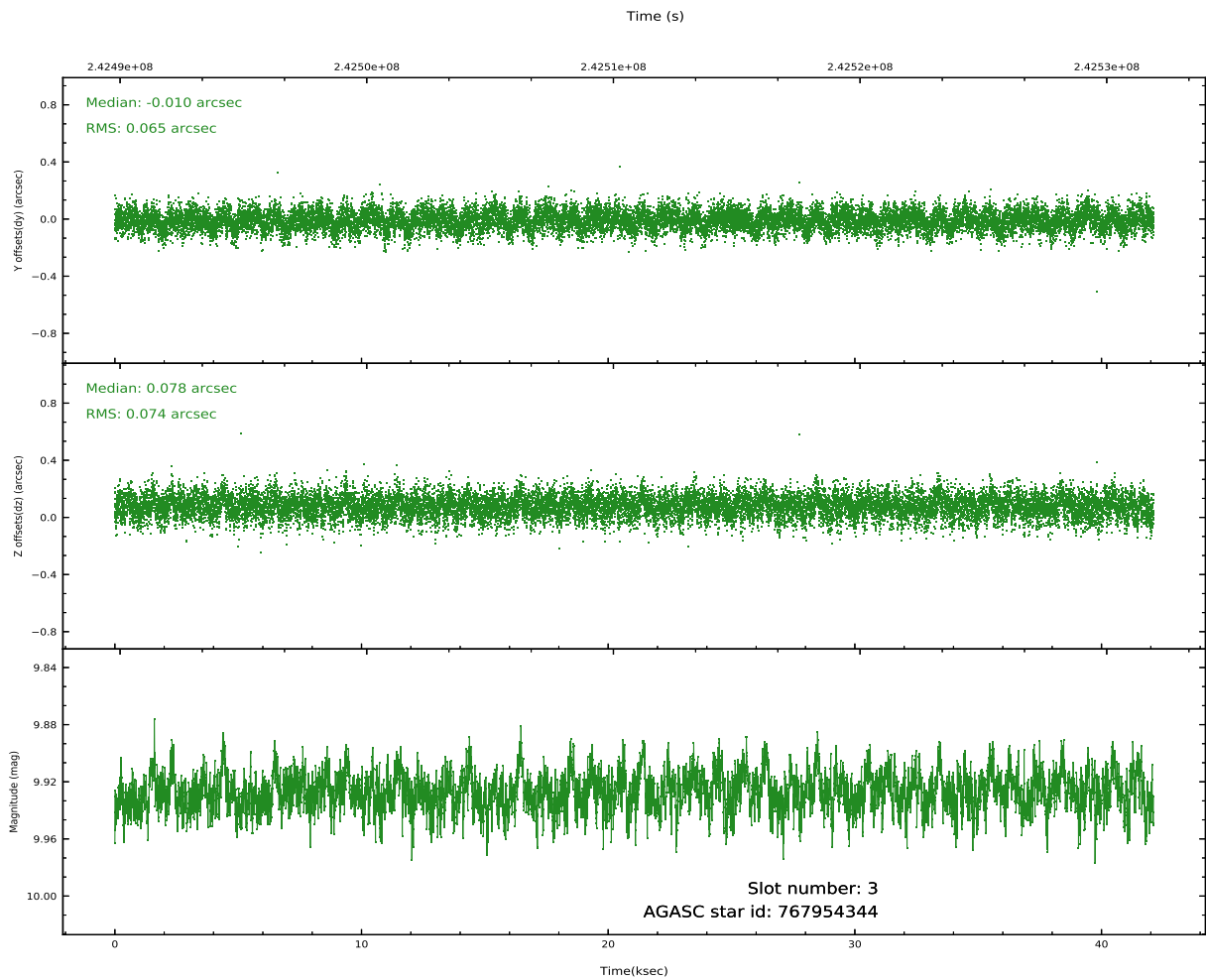
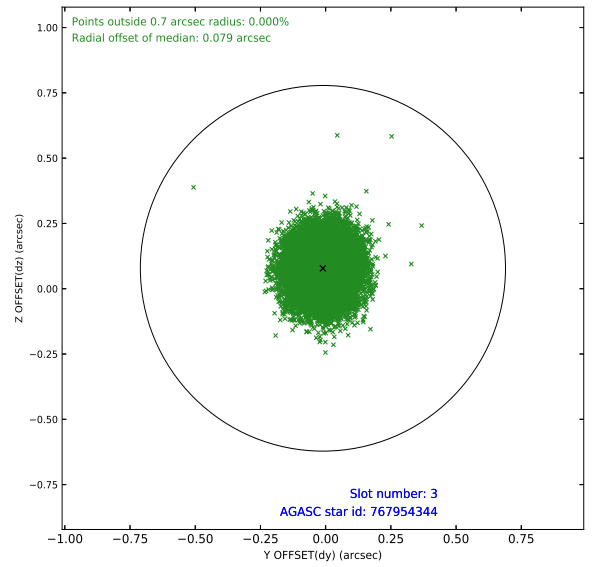
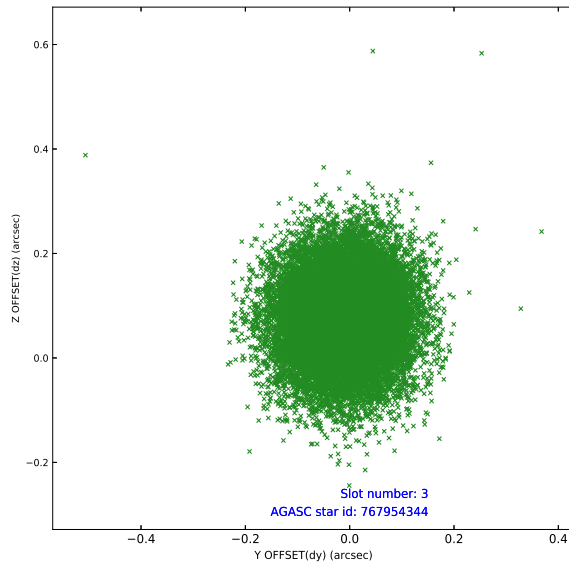
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.18	10269	1.000	-0.100	-0.087	0.011	0.020	0.000000	0.000000	-762.42	-998
1	FID		ACIS-I-4	7.14	10269	1.000	0.150	0.083	0.009	0.018	0.000000	0.000000	2151.81	908
2	FID		ACIS-I-5	7.22	10272	1.000	-0.149	0.072	0.011	0.018	0.000000	0.000000	-1815.92	904
3	GUIDE	used	767954344	9.93	20510	1.000	-0.010	0.078	0.105	0.170	34.586205	-18.281873	-1647.42	-1701
4	GUIDE	used	767954496	9.58	20516	1.000	0.003	-0.006	0.125	0.203	34.611505	-18.207511	-1370.48	-1749
5	GUIDE	used	767955344	10.18	20441	1.000	0.021	0.026	0.148	0.240	34.625163	-17.912842	-313.38	-1649
6	GUIDE	used	767955440	9.87	20497	1.000	0.015	0.016	0.109	0.176	34.470038	-17.879304	-267.44	-1106
7	GUIDE	used	767957440	9.16	20527	1.000	-0.030	-0.116	0.080	0.130	33.627958	-17.789270	-354.78	1795

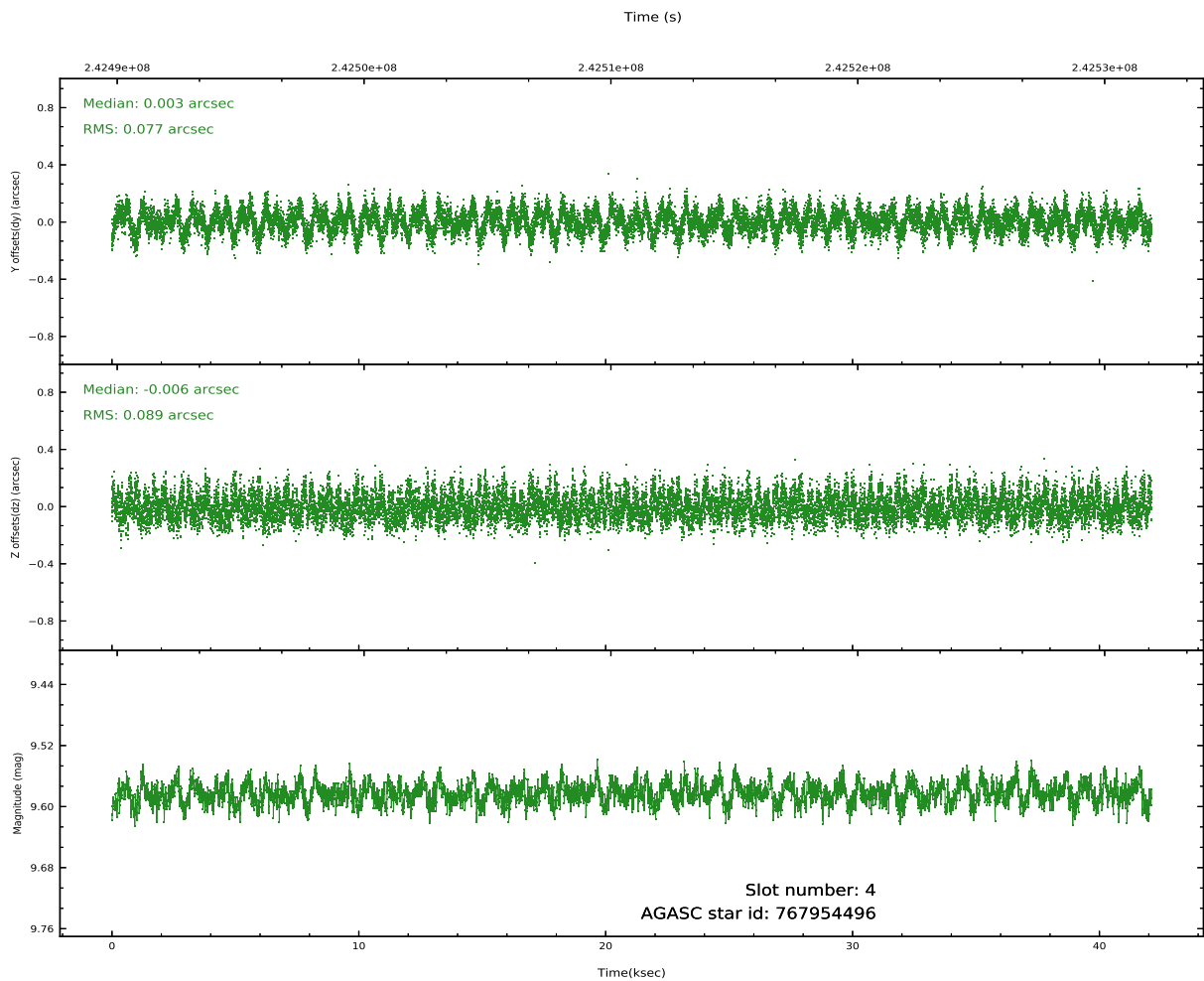
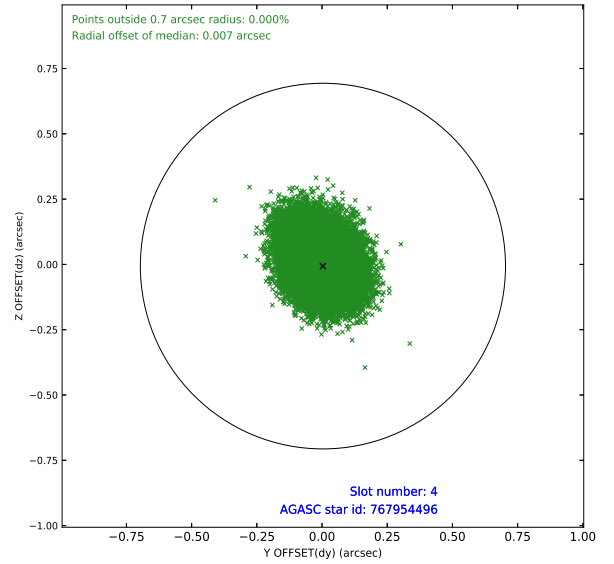
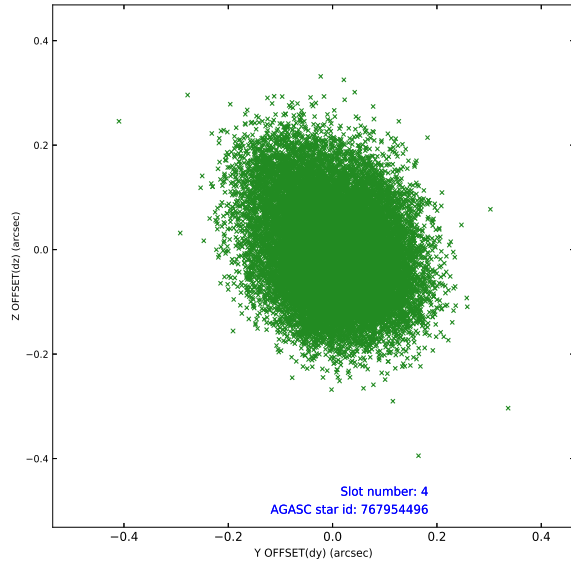
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2.4 Star Slots

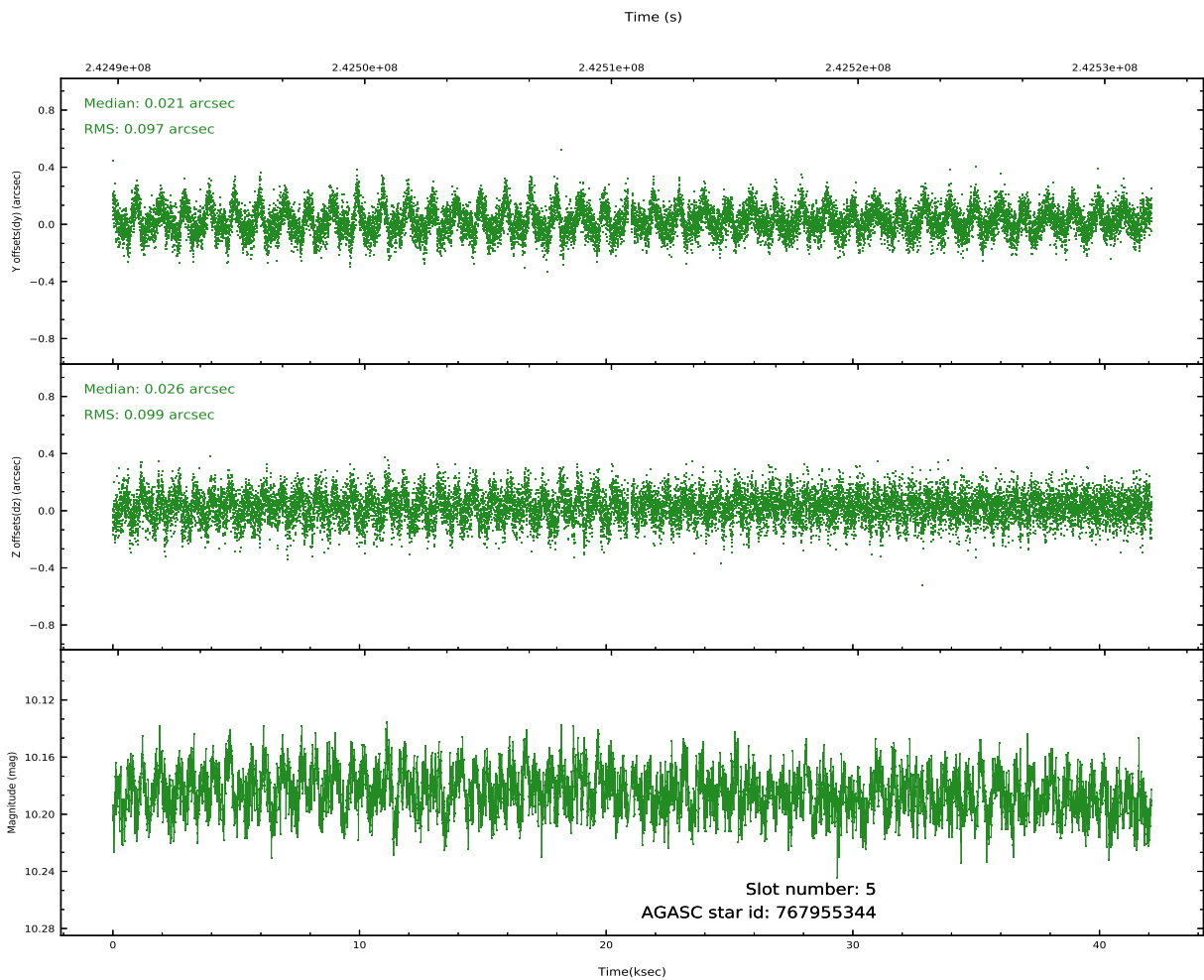
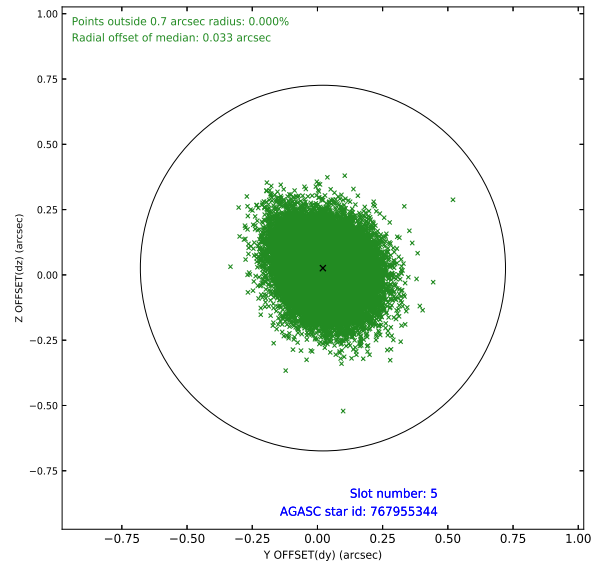
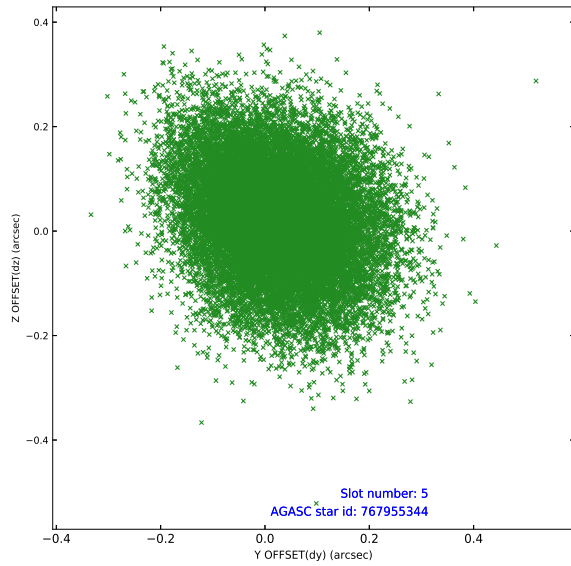
2.4.1 Slot 3



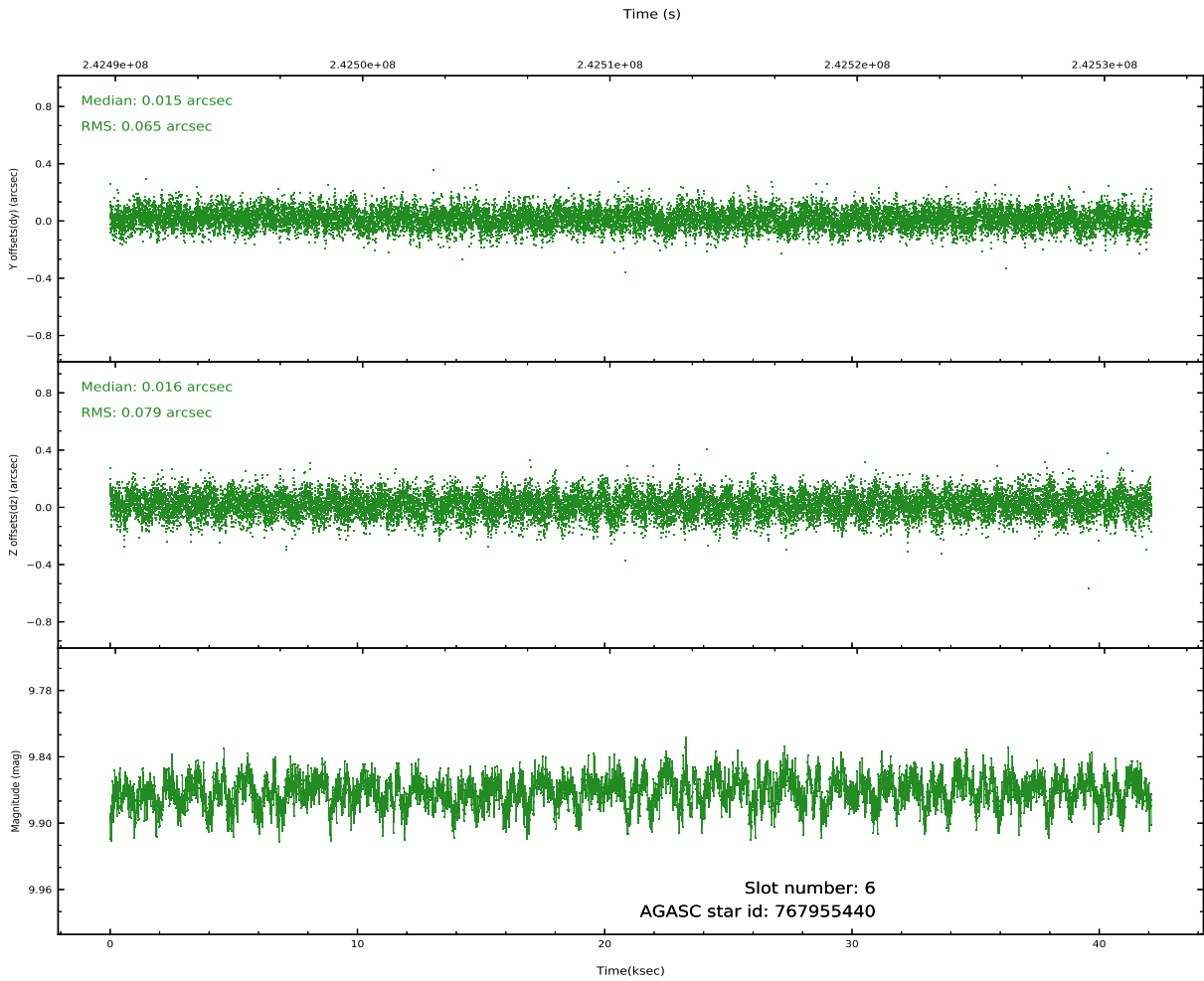
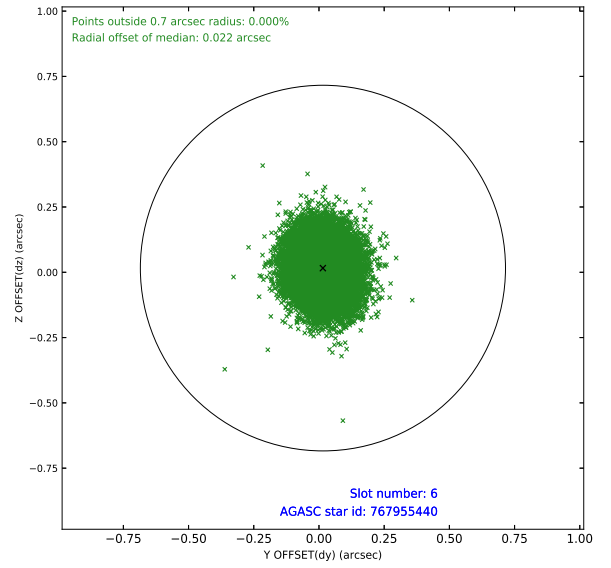
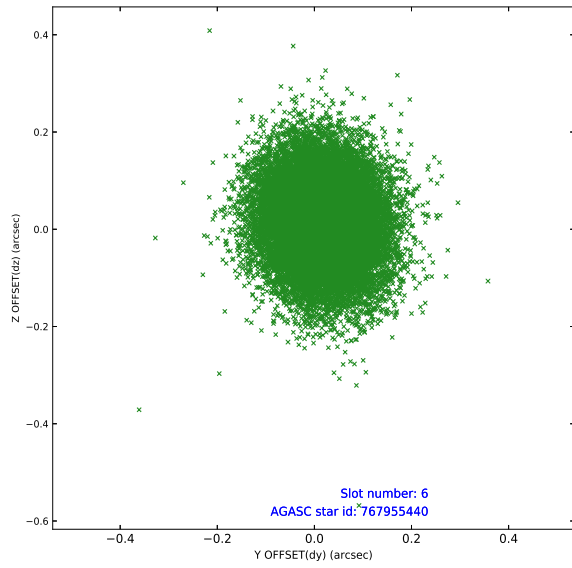
2.4.2 Slot 4



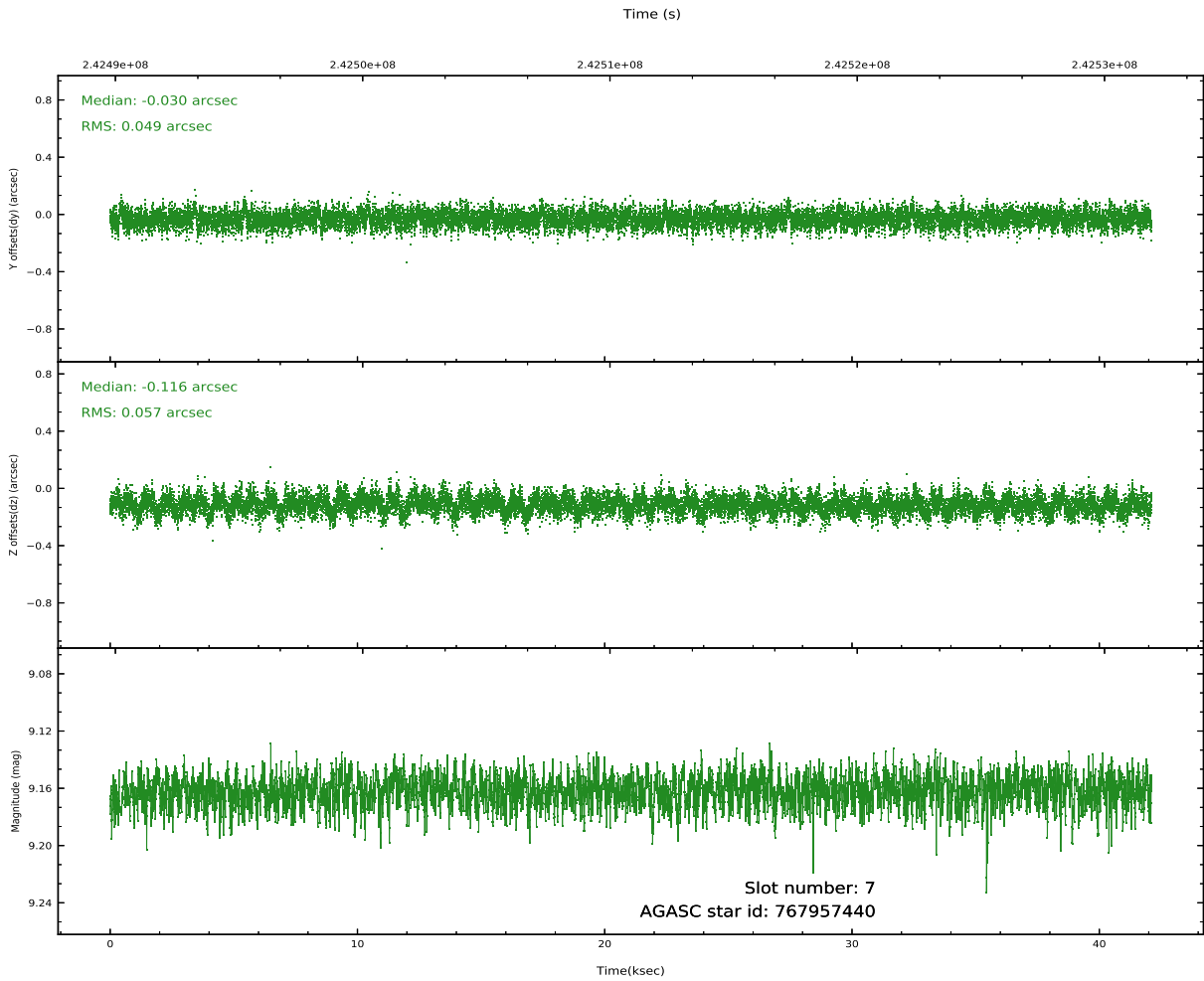
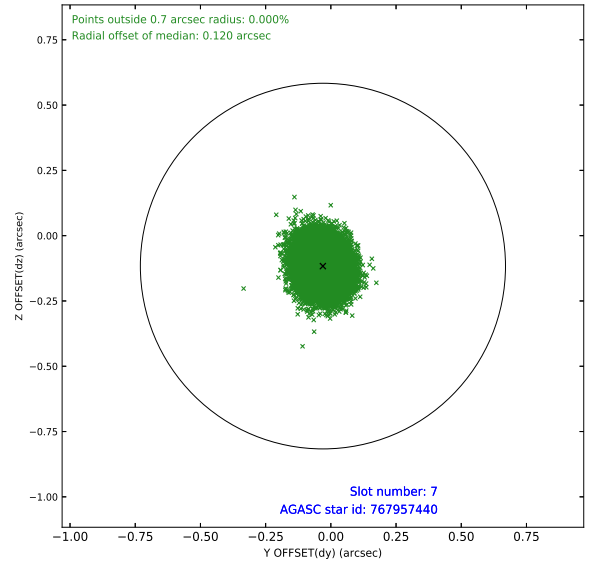
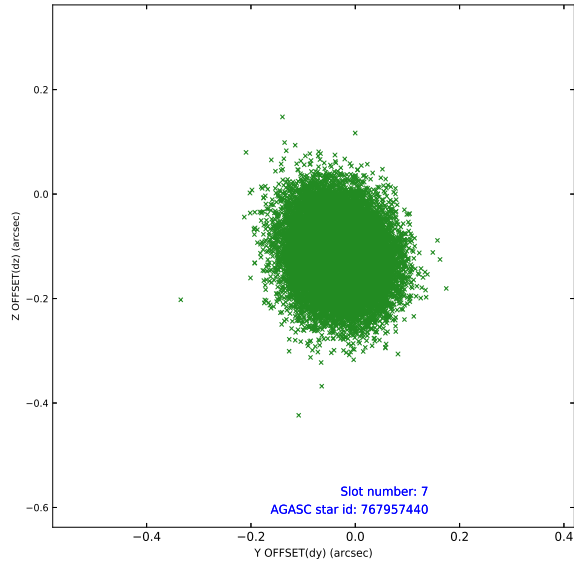
2.4.3 Slot 5



2.4.4 Slot 6

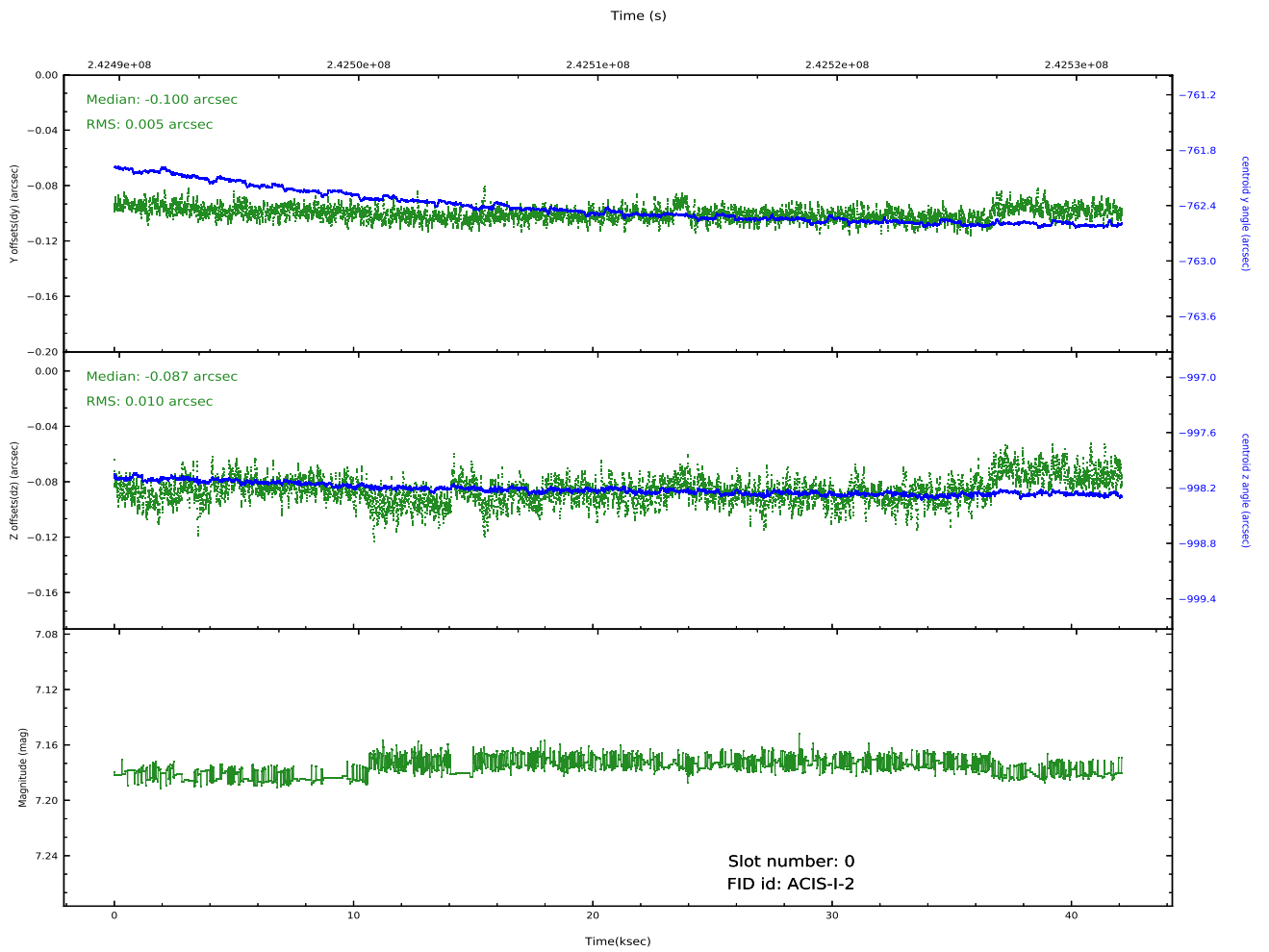
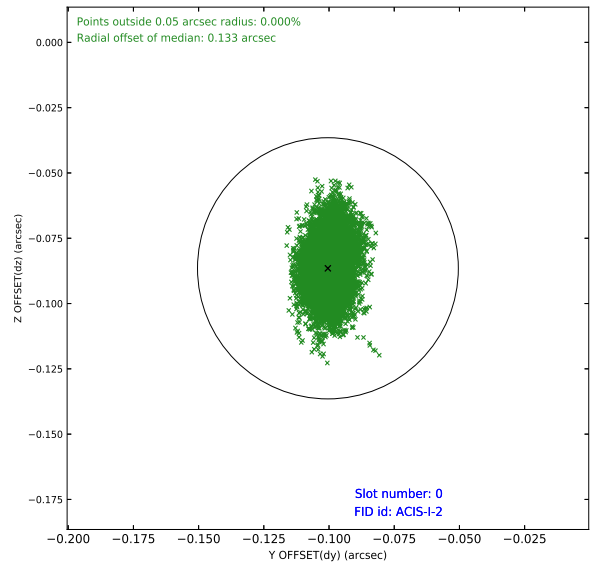
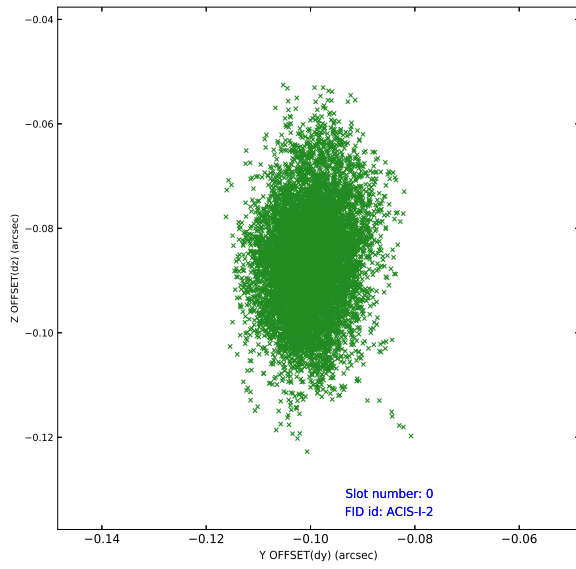


2.4.5 Slot 7

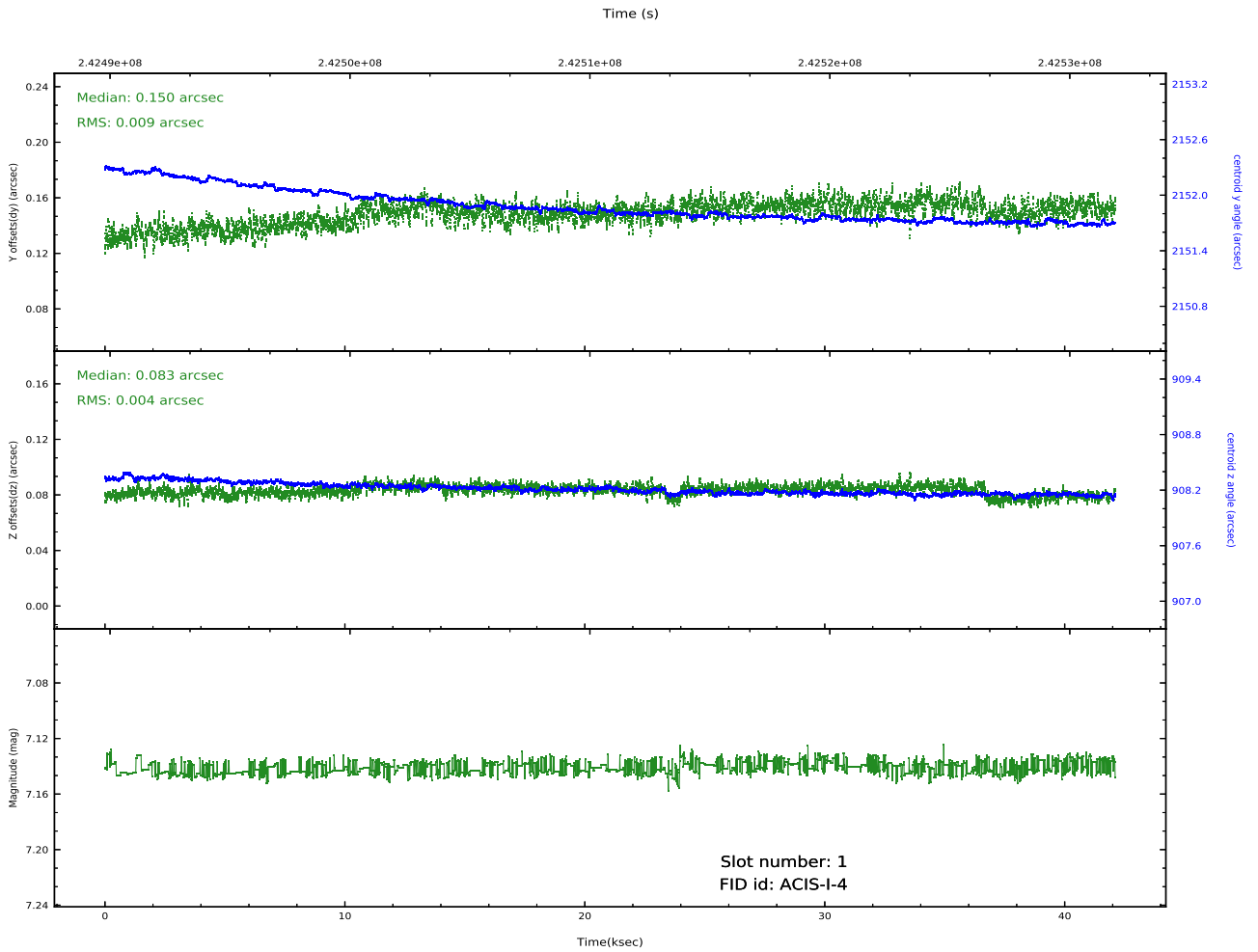
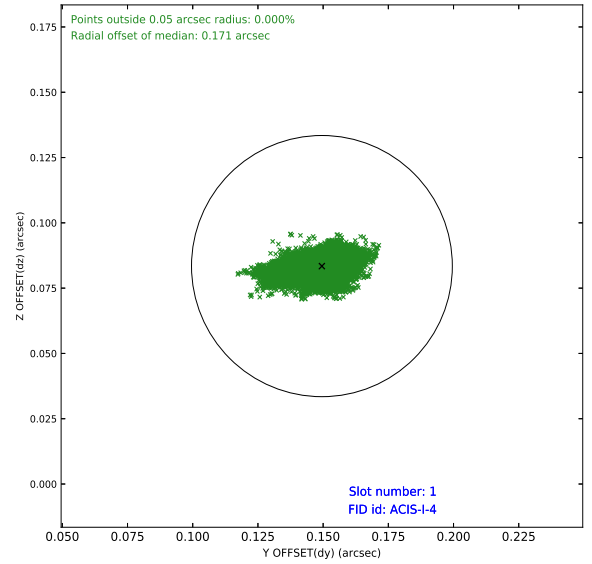
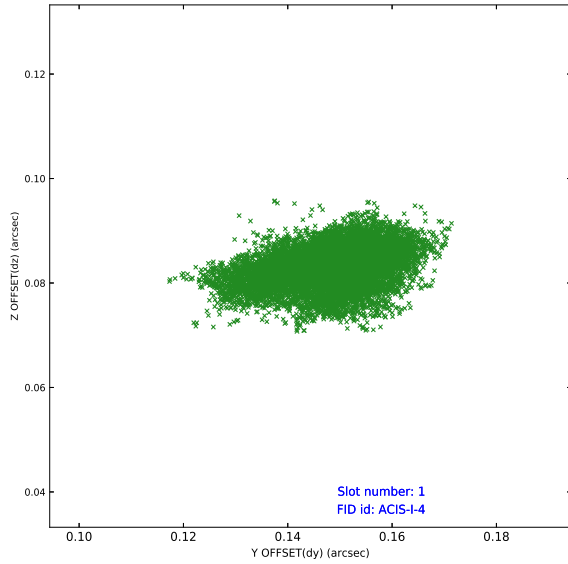


2.5 FID Slots

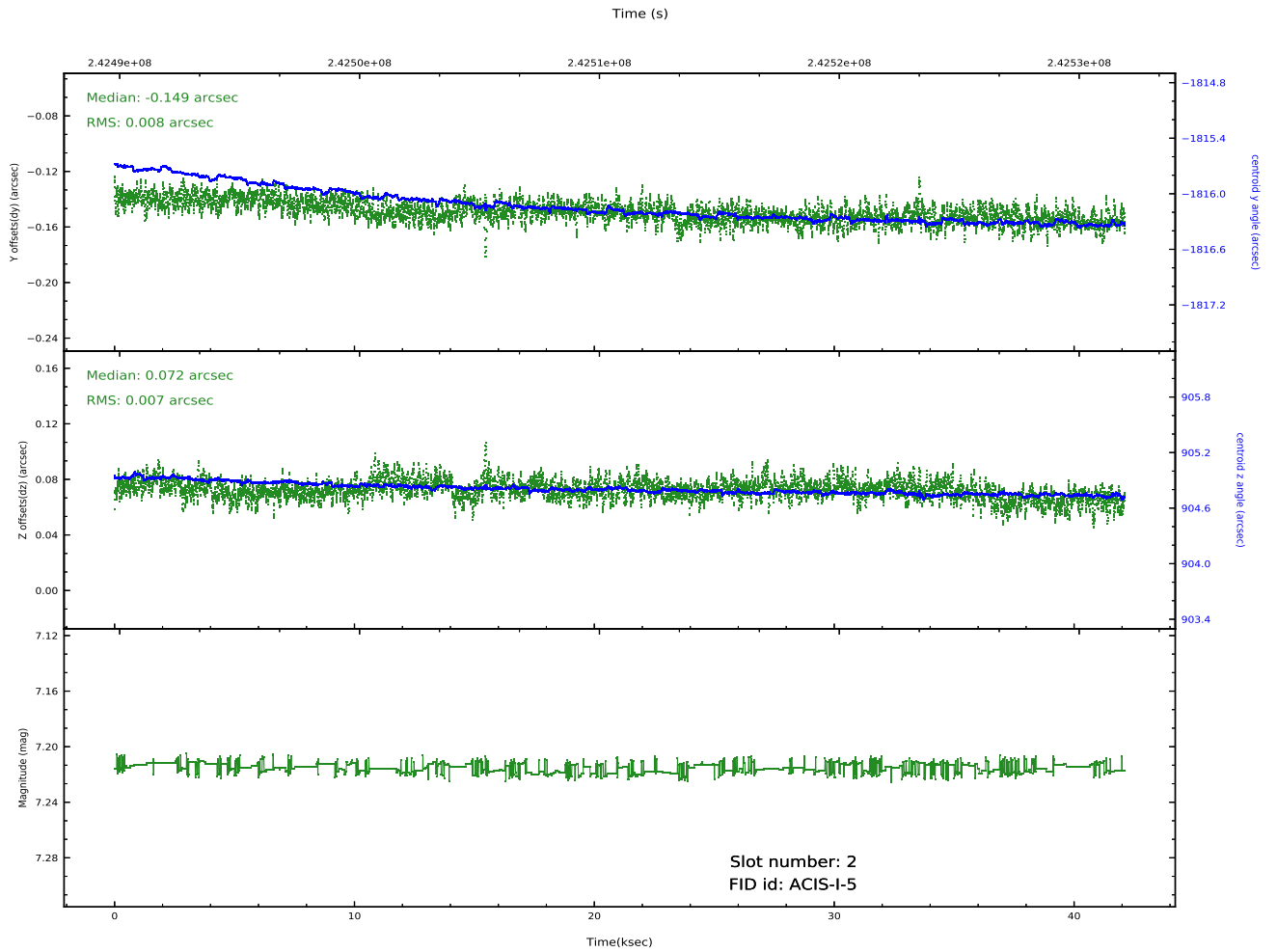
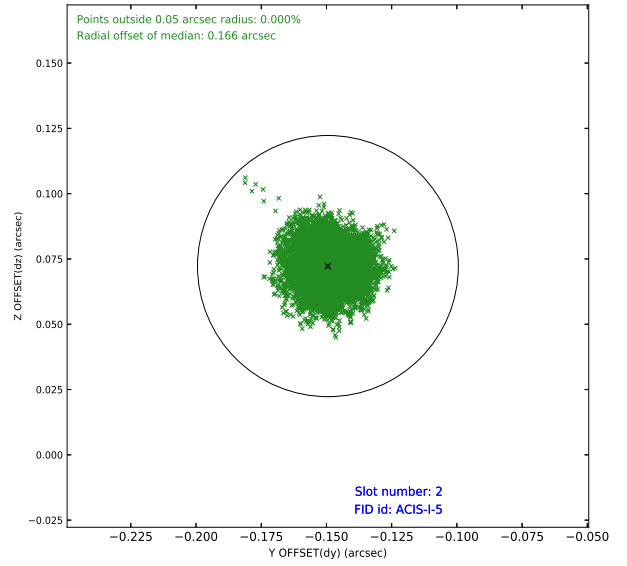
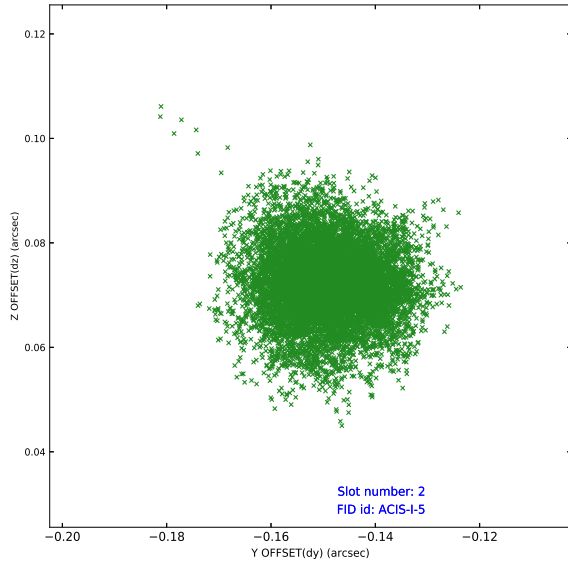
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.57397

A.2 Comments

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2005:251:01:57:56.