

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5810 - L2 Version 4
Chandra X-Ray Center

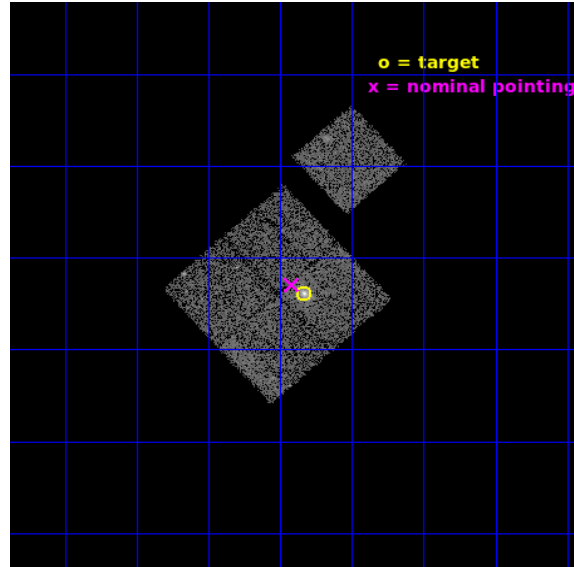
L2 Processing Date : Oct 11 2020

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1 Front

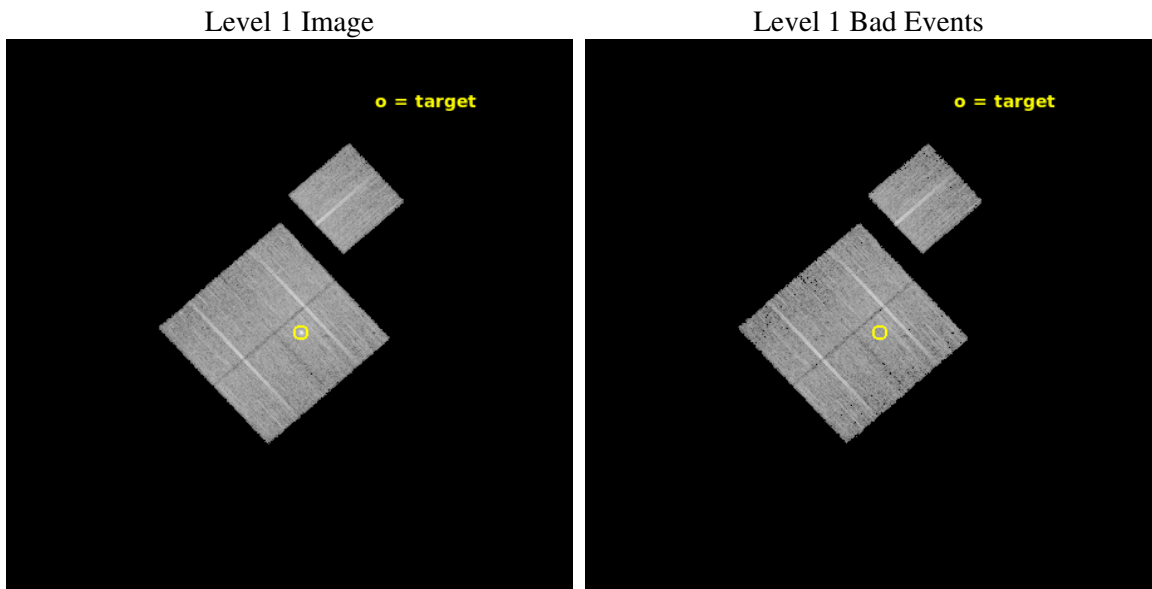
seq_num	800523	Sequence number
obs_id	5810	Observation id
title	MACS: The most massive galaxy clusters at $z>0.3$	Proposal title
observer	Harald Ebeling	Principal investigator
object	MACS J0326.8-0043	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	51.708458	Observer's specified target RA [deg]
dec_targ	-0.731361	Observer's specified target Dec [deg]
ra_nom	51.729376510421	Nominal RA [deg]
dec_nom	-0.71541781067634	Nominal Dec [deg]
roll_nom	47.879166558181	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10048.914086342	Sum of GTIs [s]
livetime	9917.6176259009	Livetime [s]
ontime0	10048.790966332	Sum of GTIs [s]
ontime1	10045.691026092	Sum of GTIs [s]
ontime2	10048.873046339	Sum of GTIs [s]
ontime3	10048.914086342	Sum of GTIs [s]
ontime6	10048.749926329	Sum of GTIs [s]
l2events	31170	Number of level 2 events



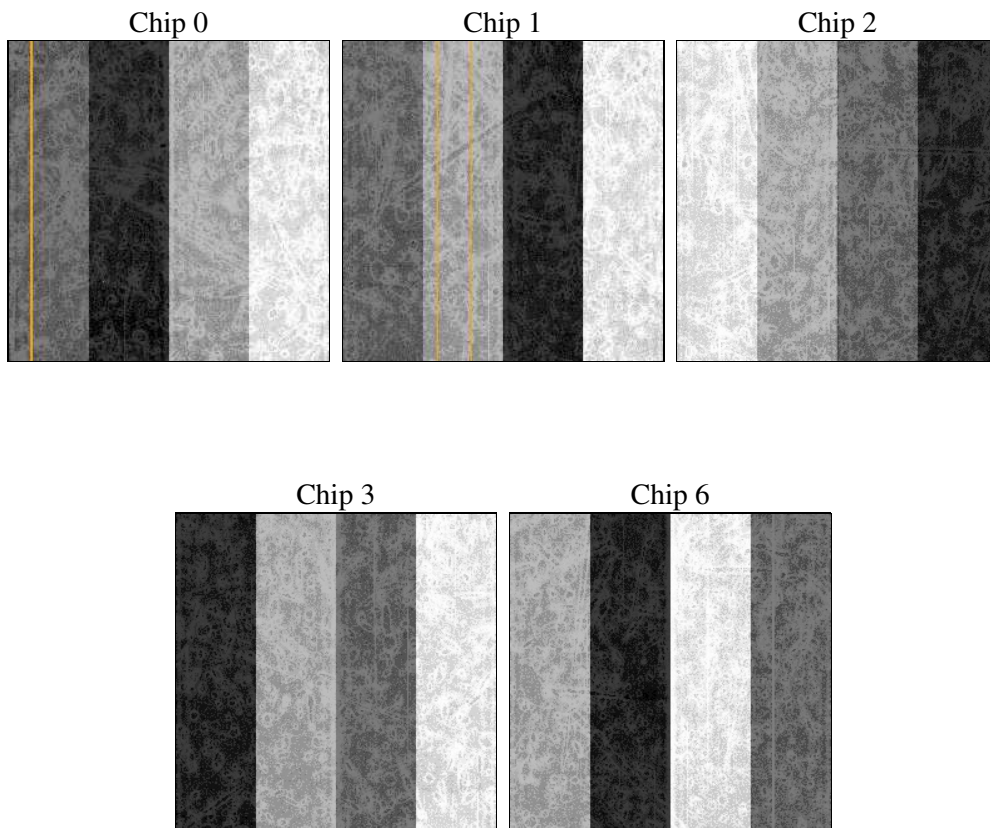
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10048.914086342	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	10048.790966332	Sum of GTIs [s]
date	2020-10-11T04:43:28	Date and time of file creation	ontime1	10045.691026092	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	10048.873046339	Sum of GTIs [s]
			ontime3	10048.914086342	Sum of GTIs [s]
			ontime6	10048.749926329	Sum of GTIs [s]
			l1events	331321	Number of level 1 events

2.1.4 Events

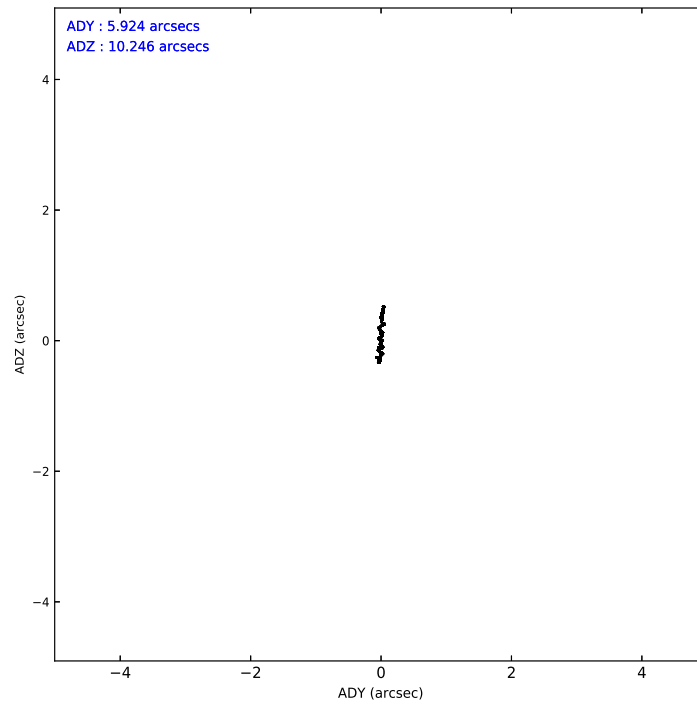
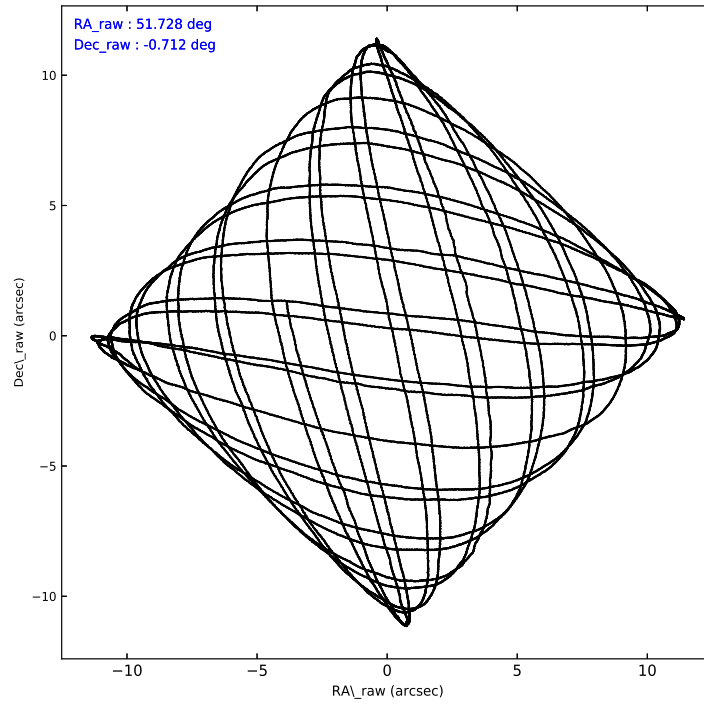
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	61657	62688	69462	69580	67934
rejected events	55066	55237	62889	60250	60747
rejected %	89%	88%	90%	86%	89%

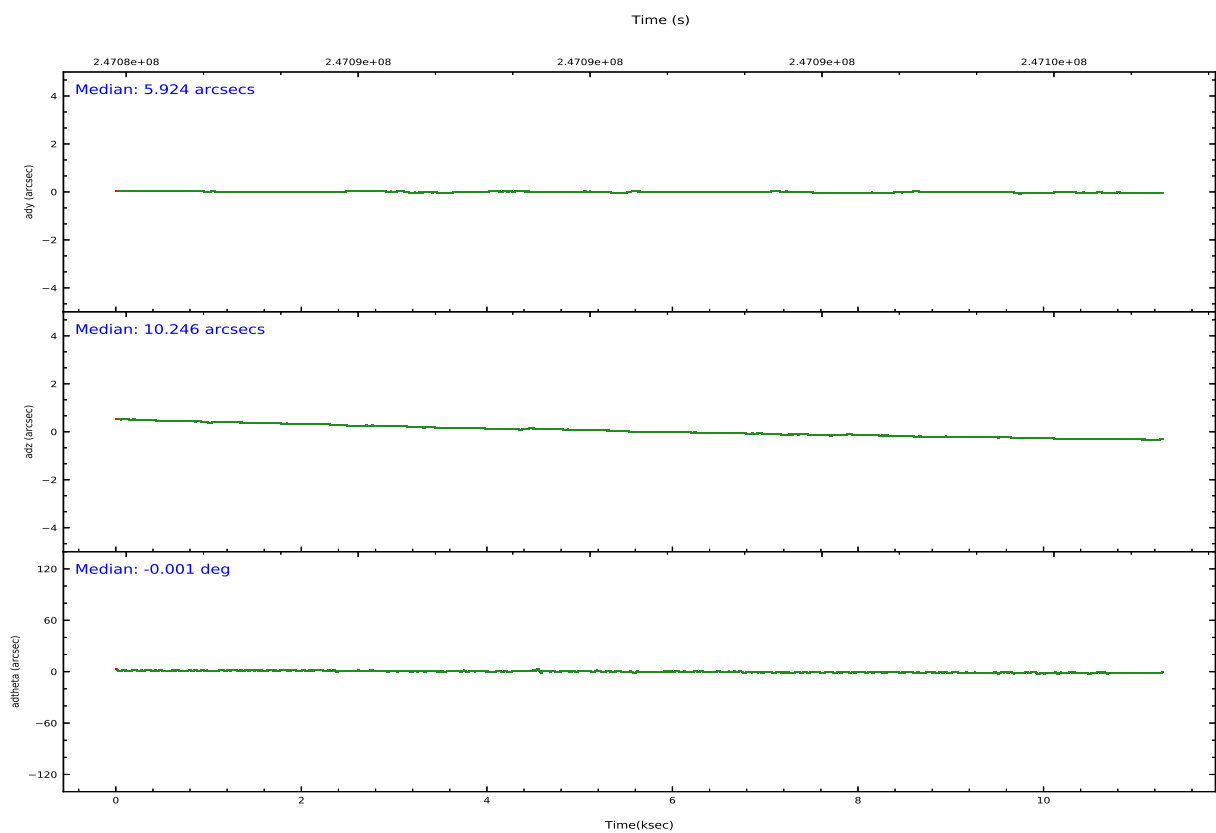
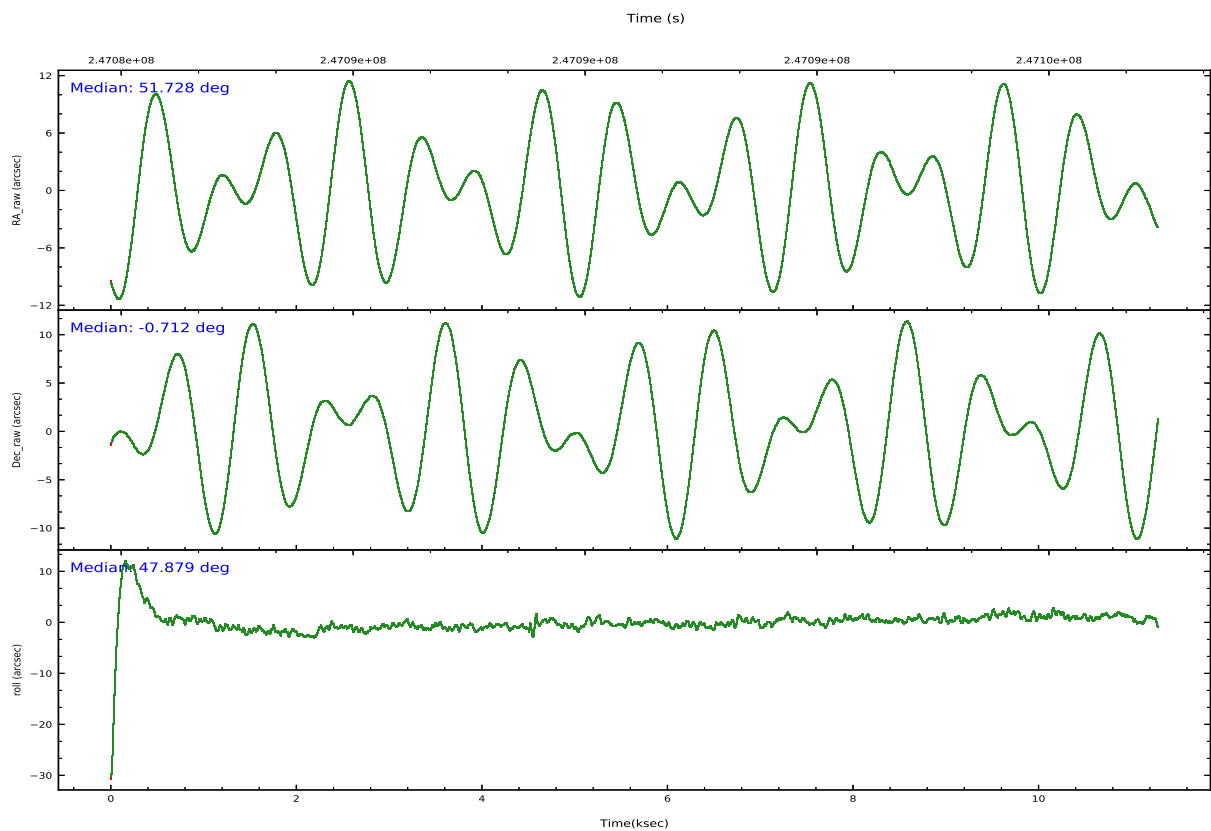
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2393	2663	2381	4665	2601
	3%	4%	3%	6%	3%
grade 1 events	31	36	41	45	30
	0%	0%	0%	0%	0%
grade 2 events	1587	1649	1544	1600	1530
	2%	2%	2%	2%	2%
grade 3 events	725	821	680	852	788
	1%	1%	0%	1%	1%
grade 4 events	701	825	710	850	763
	1%	1%	1%	1%	1%
grade 5 events	2233	2448	2164	2841	2595
	3%	3%	3%	4%	3%
grade 6 events	1190	1504	1261	1371	1507
	1%	2%	1%	1%	2%
grade 7 events	52797	52742	60681	57356	58120
	85%	84%	87%	82%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	51.722739	51.729376510421	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.738956	-0.71541781067634	Alternating exposures requested	N	N
[deg] Pointing Roll	47.671394	47.879166558181	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-229.442463	-229.4438428438578			
[mm] SIM translation stage offset	-4.15	-4.148610159071865			
[s] Observation start time (MET)	247086176.184000	247084699.59248			
Observation start date	2005-10-30T19:01:52	2005-10-30T18:38:19			
[s] Observation end time (MET)	247096176.184000	247097488.51807			
Observation end date	2005-10-30T21:48:32	2005-10-30T22:11:28			
Read mode	TIMED	TIMED			

2.3 Aspect



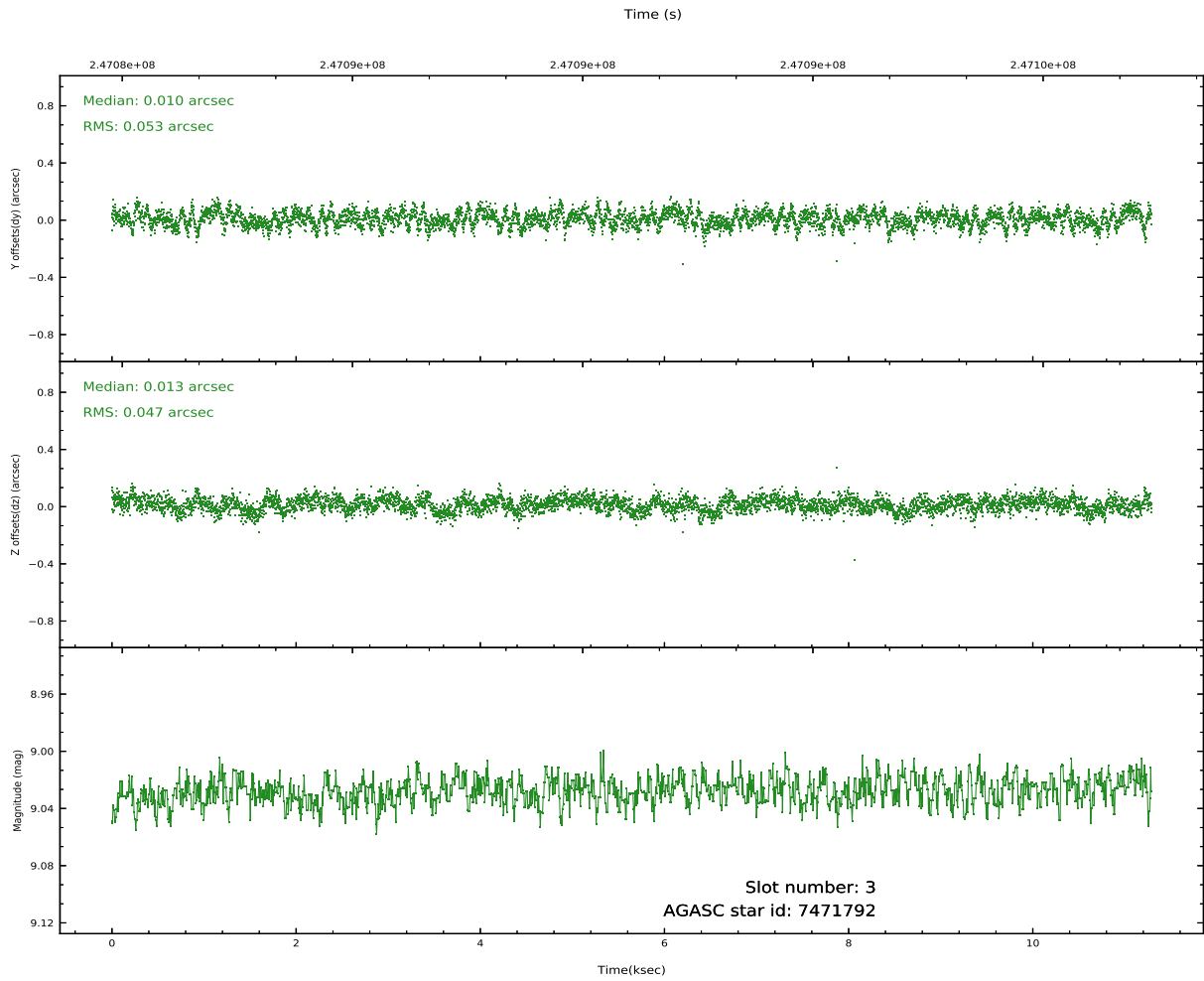
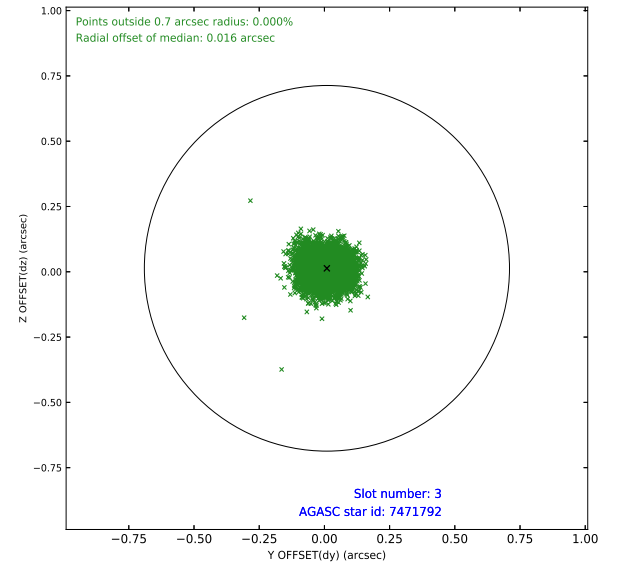
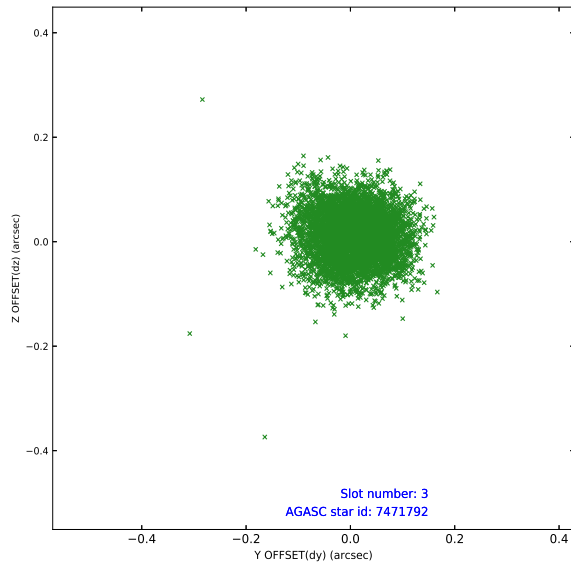


Slot Statistics

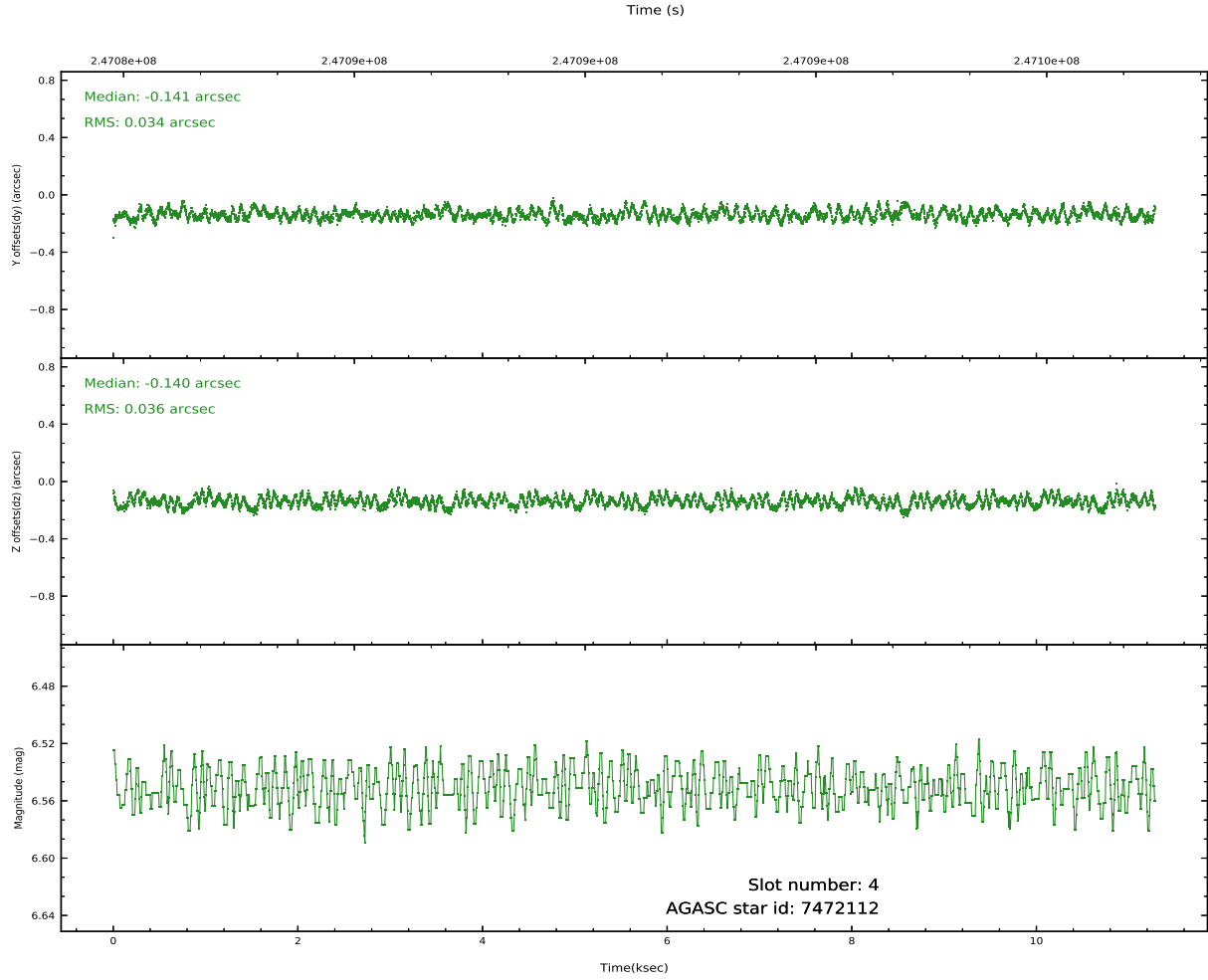
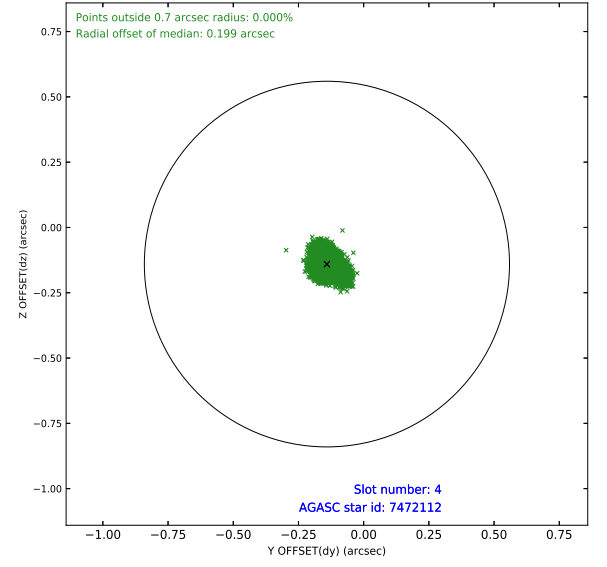
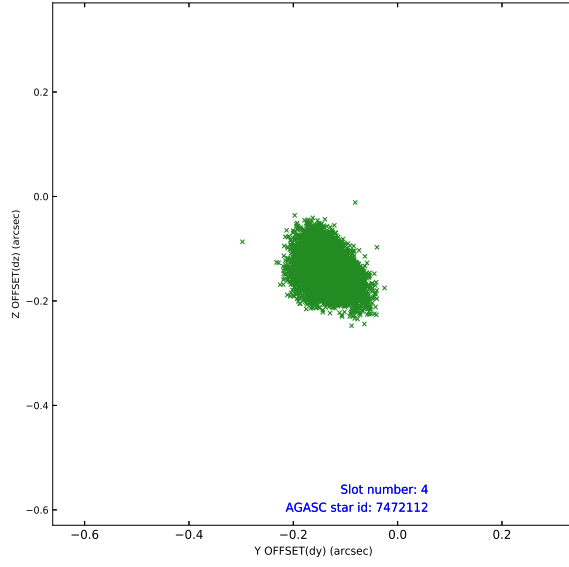
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	2754	1.000	0.089	-0.065	0.008	0.014	0.000000	0.000000	933.79	-918
1	FID		ACIS-I-5	7.23	2753	1.000	-0.263	0.072	0.008	0.013	0.000000	0.000000	-1814.40	978
2	FID		ACIS-I-6	7.25	2754	1.000	0.082	0.063	0.009	0.015	0.000000	0.000000	398.86	1623
3	GUIDE	used	7471792	9.03	5501	1.000	0.010	0.013	0.075	0.121	51.669944	0.071818	2030.07	2106
4	GUIDE	used	7472112	6.55	5507	1.000	-0.141	-0.140	0.053	0.081	51.705167	0.026178	1994.39	1901
5	GUIDE	used	617223568	8.61	5508	1.000	-0.057	0.095	0.078	0.120	52.227027	-0.417531	2078.40	-563
6	GUIDE	used	617226472	8.72	5502	1.000	0.130	0.013	0.064	0.105	51.517896	-0.643841	-242.54	775
7	GUIDE	used	617227784	9.10	5505	1.000	0.057	0.016	0.077	0.128	51.447692	-0.728205	-637.87	758

2.4 Star Slots

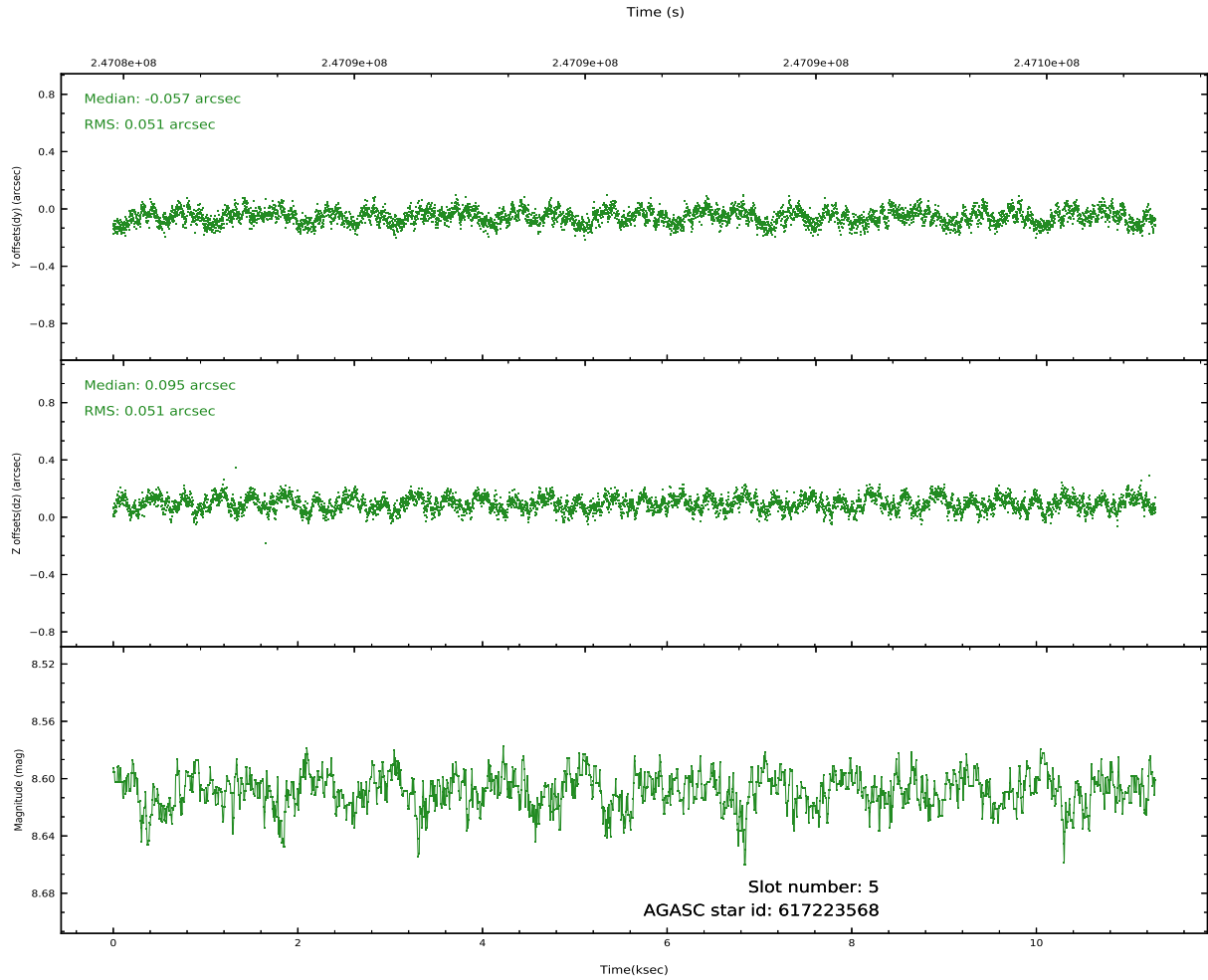
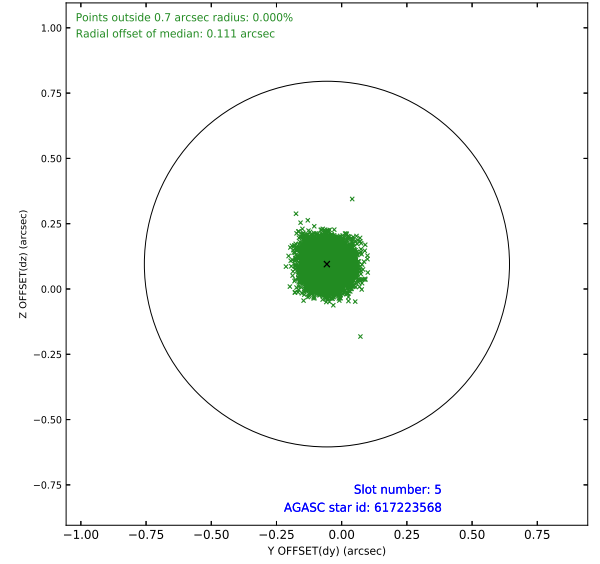
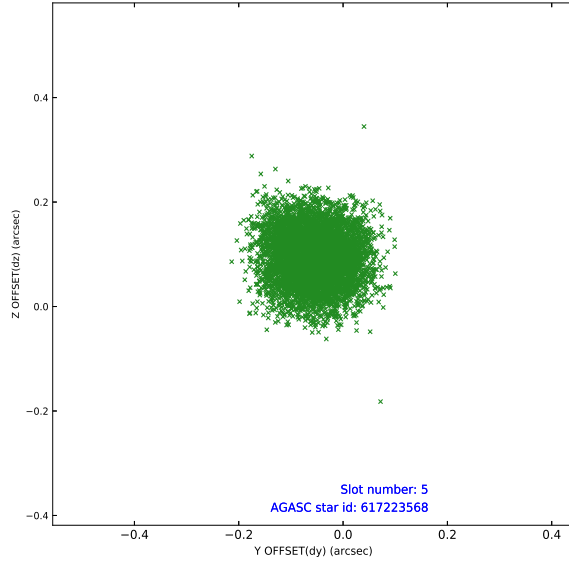
2.4.1 Slot 3



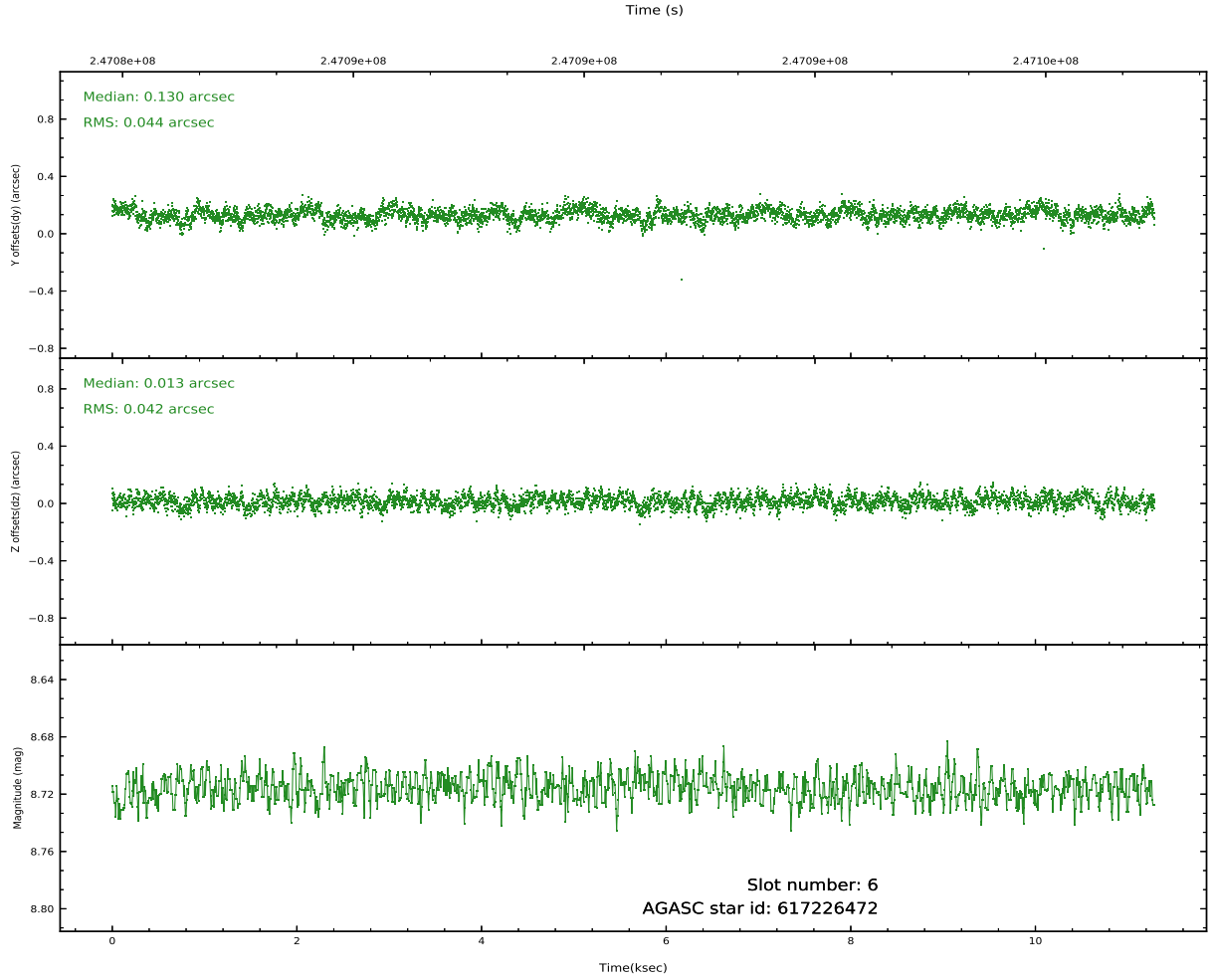
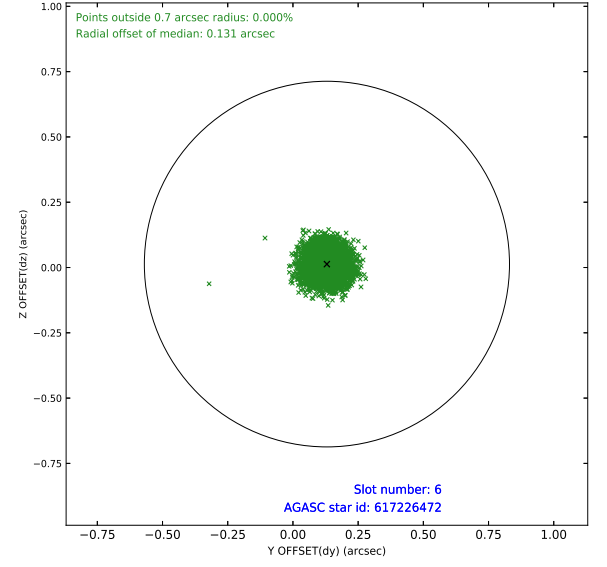
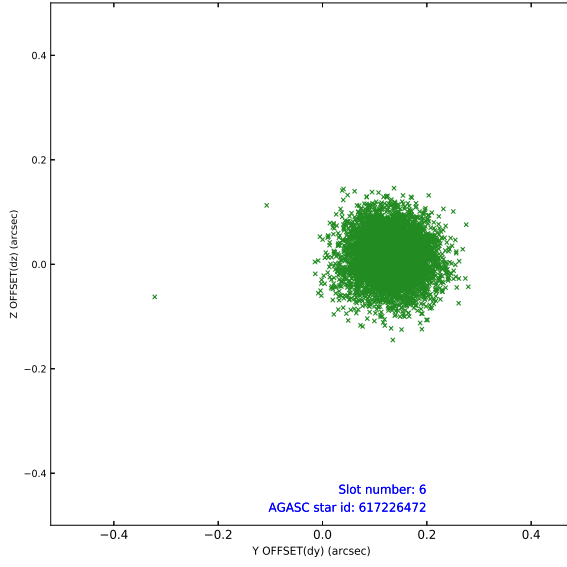
2.4.2 Slot 4



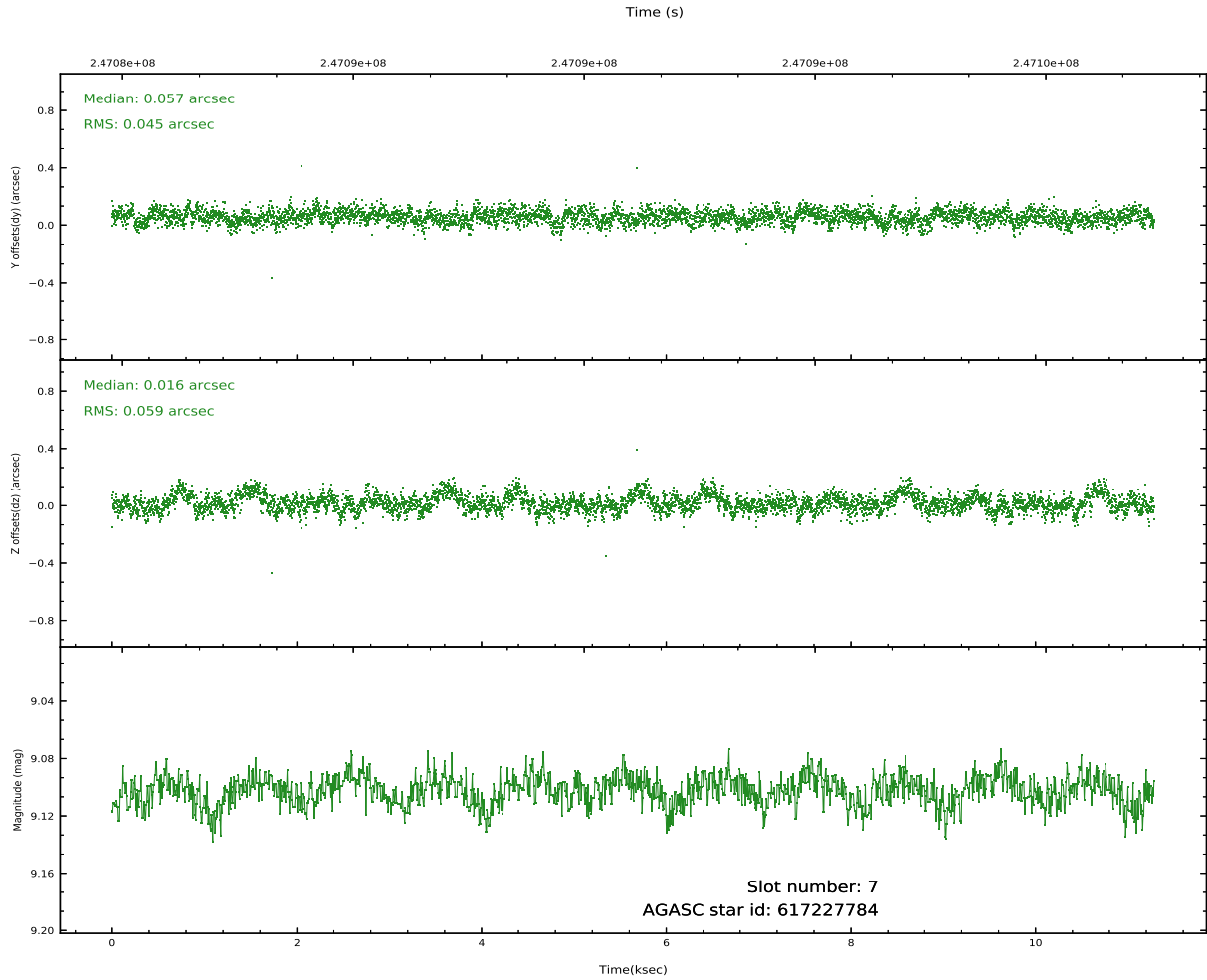
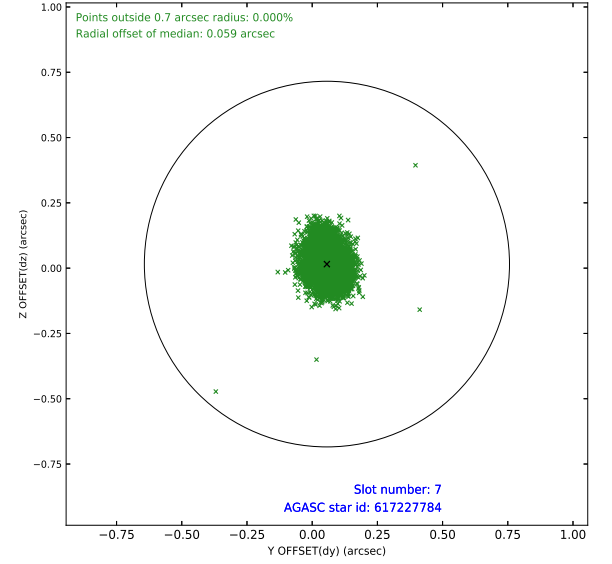
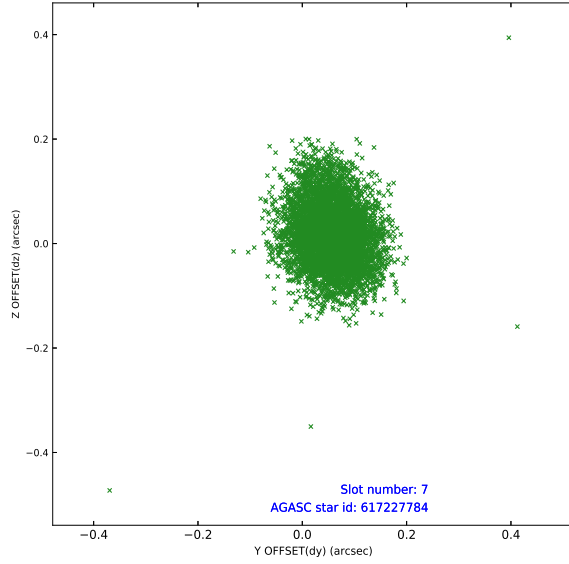
2.4.3 Slot 5



2.4.4 Slot 6

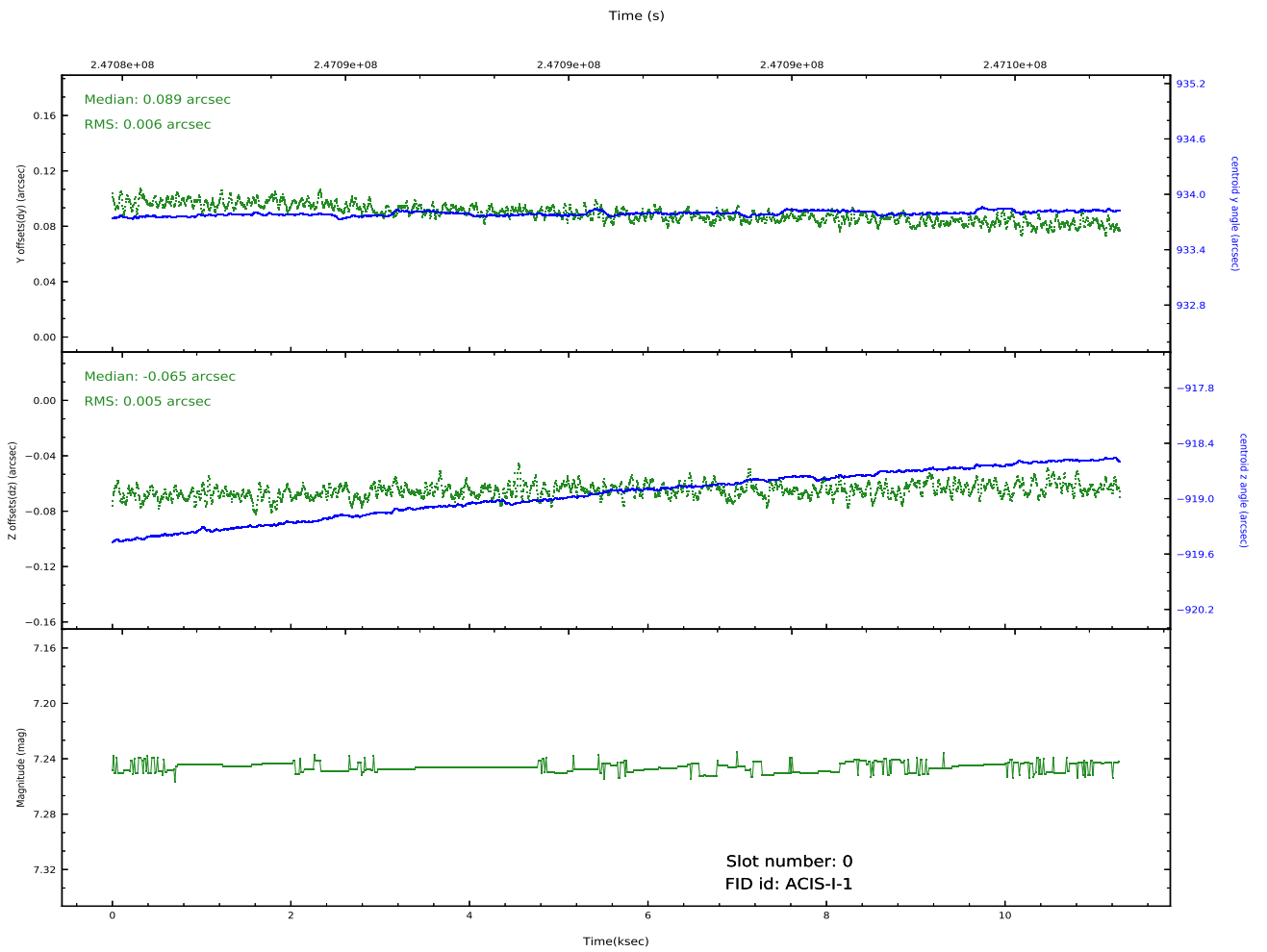
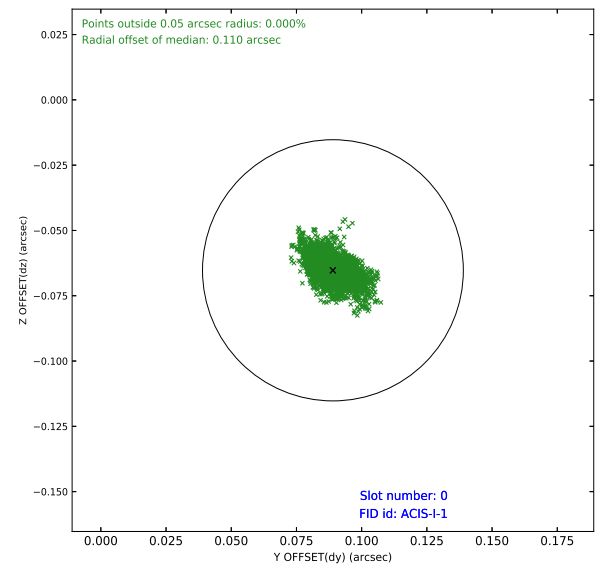
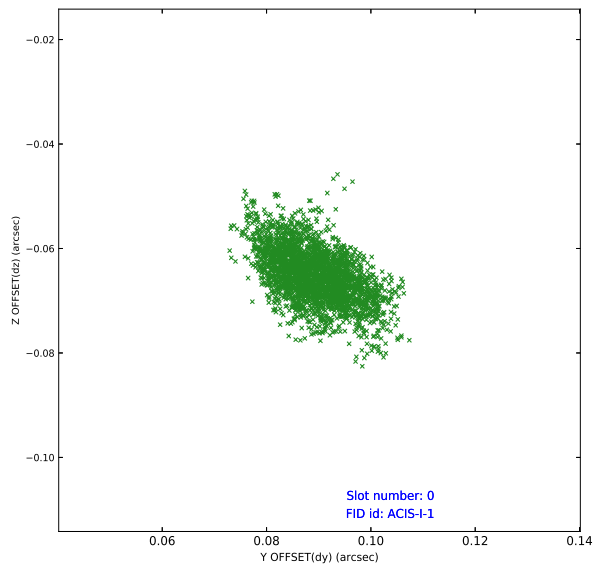


2.4.5 Slot 7

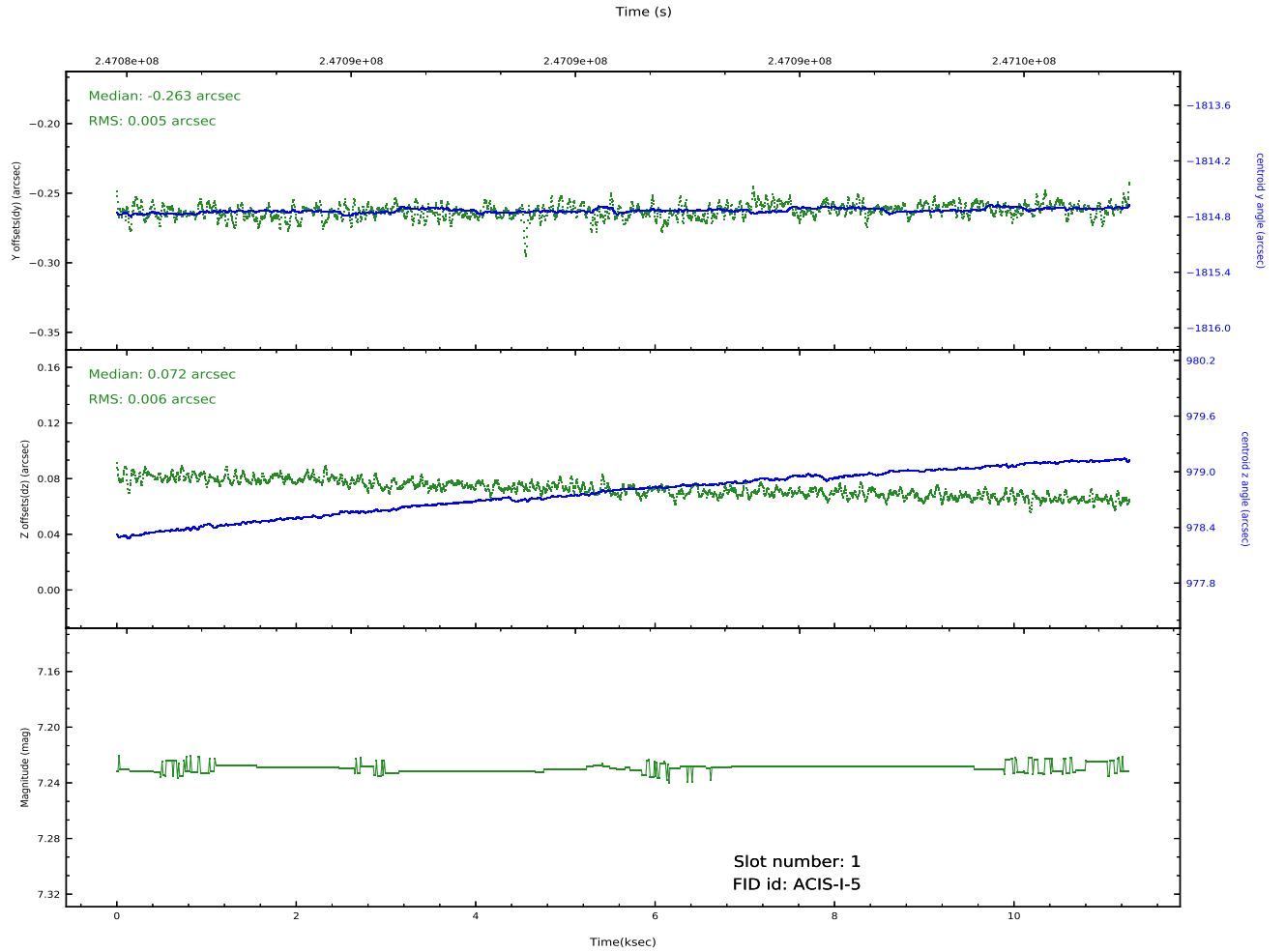
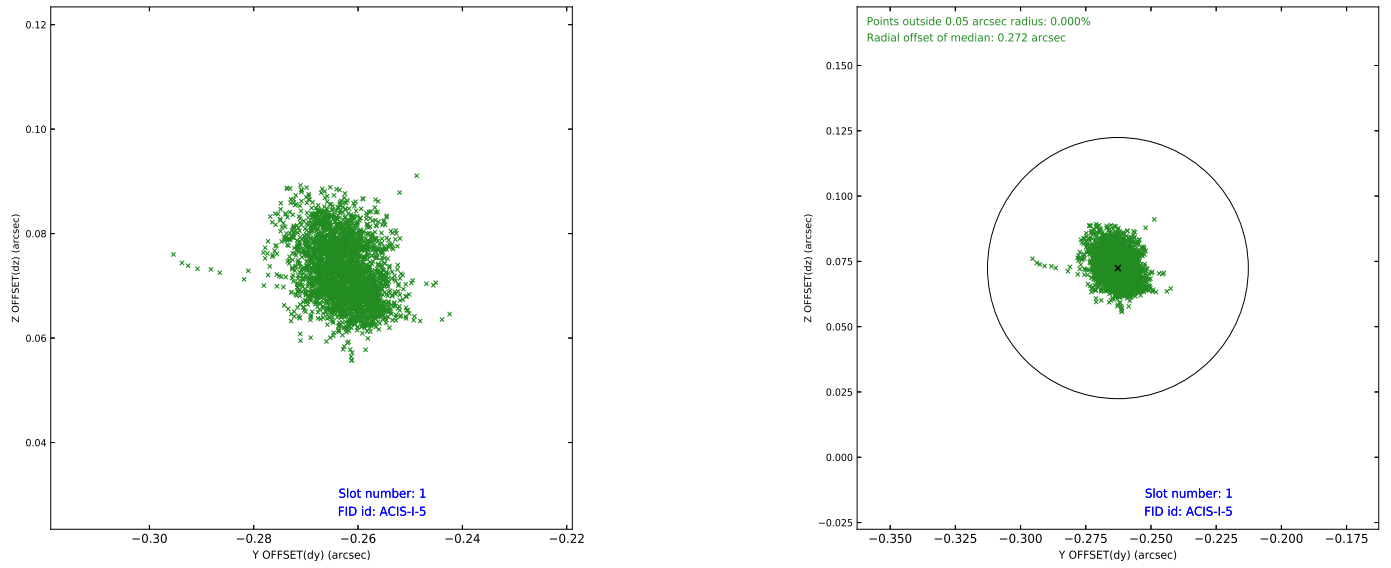


2.5 FID Slots

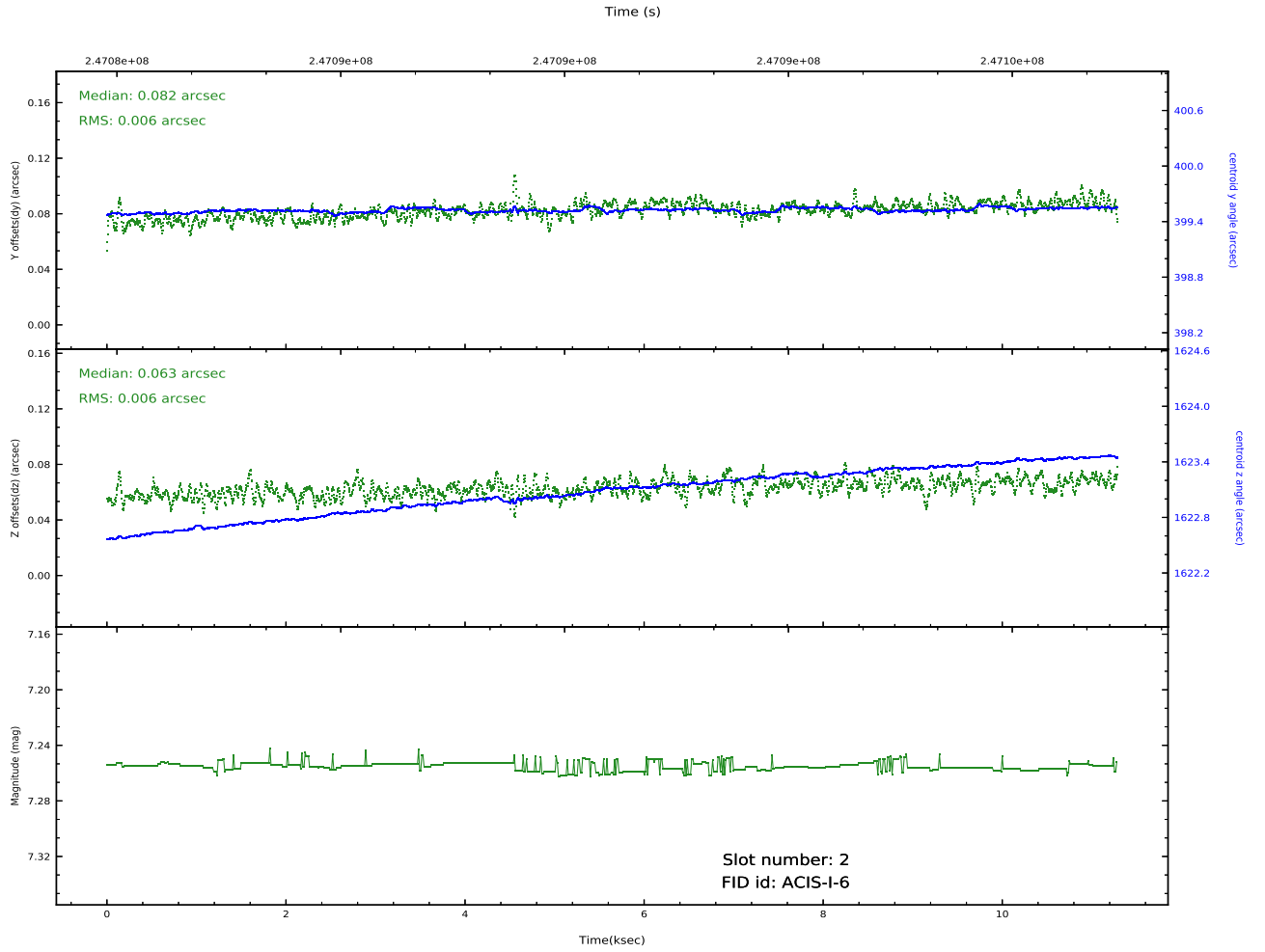
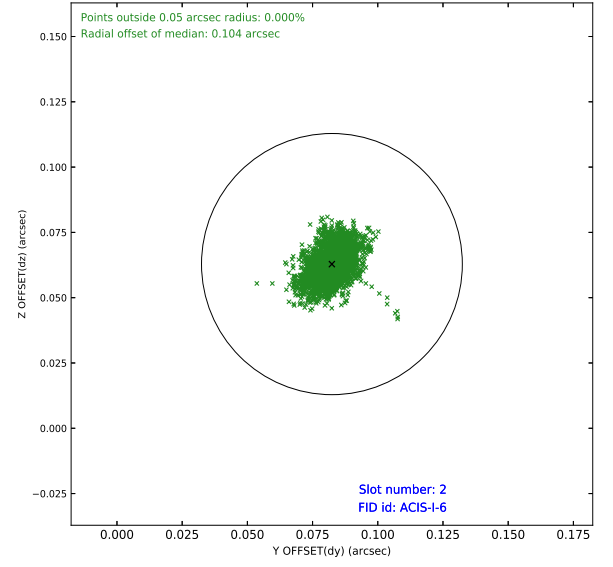
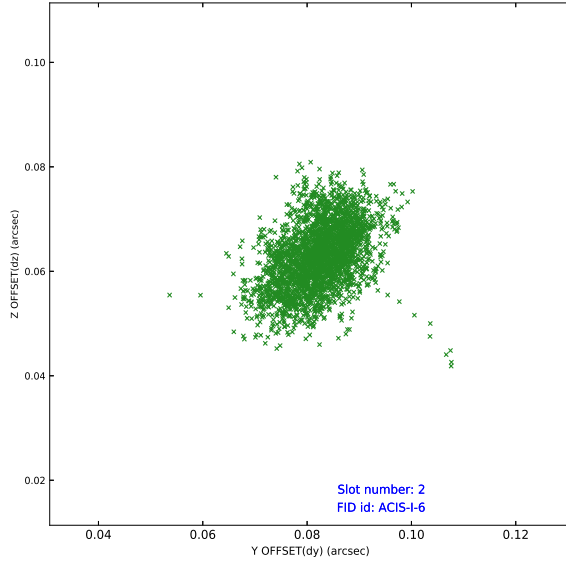
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.05019

A.2 Comments