

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5841 - L2 Version 4
Chandra X-Ray Center

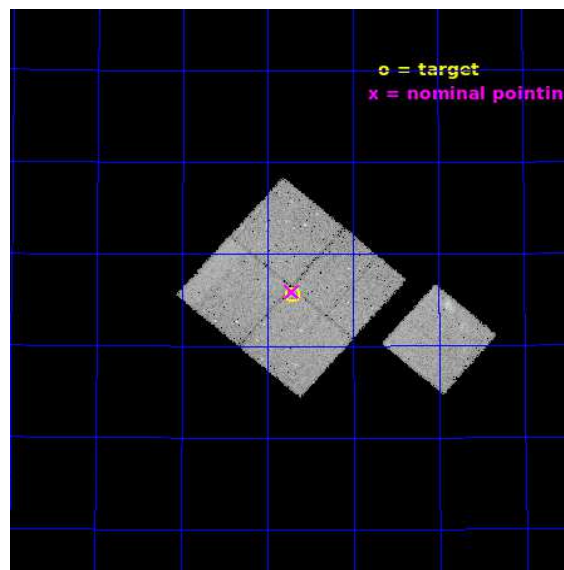
L2 Processing Date : Oct 7 2020

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1 Front

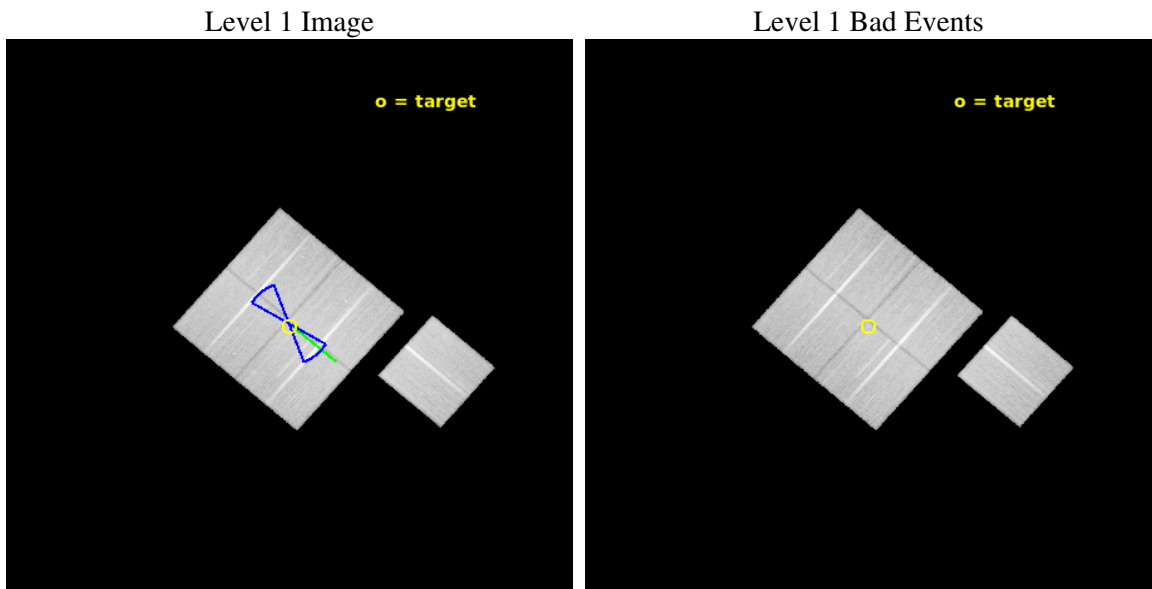
seq_num	900348	Sequence number
obs_id	5841	Observation id
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	Extended Groth Strip (EGS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.676254	Observer's specified target RA [deg]
dec_targ	53.427086	Observer's specified target Dec [deg]
ra_nom	215.67914640981	Nominal RA [deg]
dec_nom	53.432082138407	Nominal Dec [deg]
roll_nom	130.88810534135	Nominal Roll [deg]
revision	4	Processing version of data
ontime	45039.776982635	Sum of GTIs [s]
livetime	44451.299138556	Livetime [s]
ontime0	45042.917932957	Sum of GTIs [s]
ontime1	45042.917932928	Sum of GTIs [s]
ontime2	45042.917952865	Sum of GTIs [s]
ontime3	45039.776982635	Sum of GTIs [s]
ontime6	45046.058913171	Sum of GTIs [s]
l2events	117418	Number of level 2 events



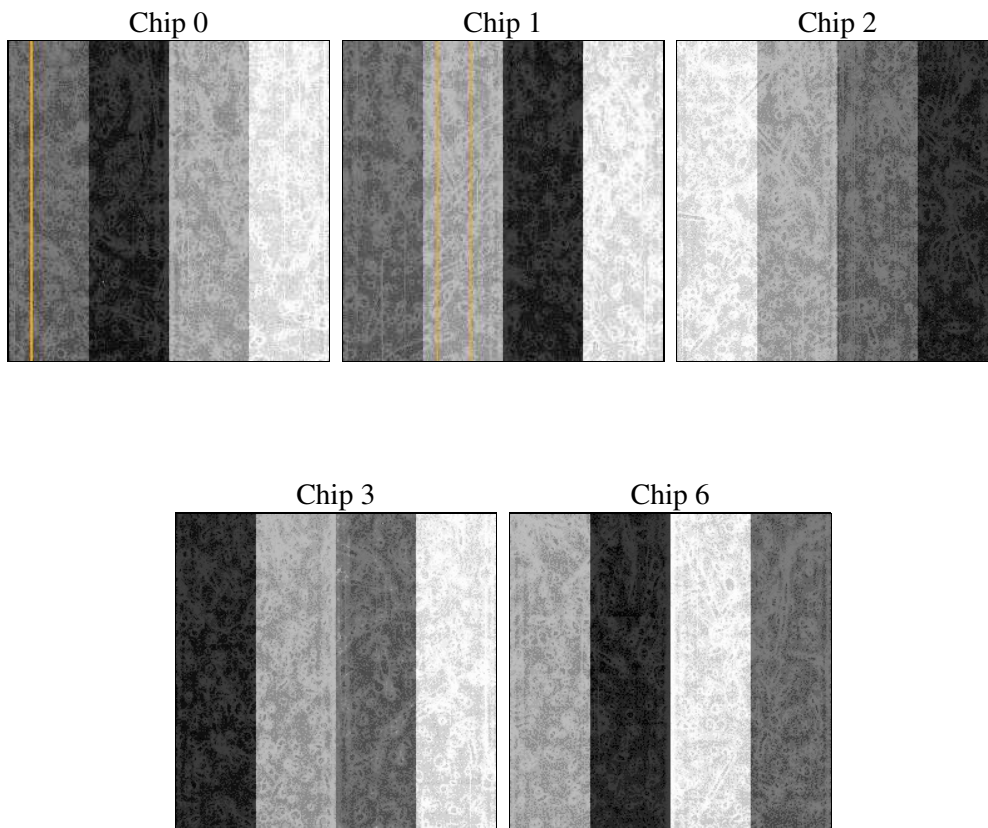
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	45039.776982635	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	45042.917932957	Sum of GTIs [s]
date	2020-10-07T05:36:21	Date and time of file creation	ontime1	45042.917932928	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	45042.917952865	Sum of GTIs [s]
			ontime3	45039.776982635	Sum of GTIs [s]
			ontime6	45046.058913171	Sum of GTIs [s]
			l1events	1393605	Number of level 1 events

2.1.4 Events

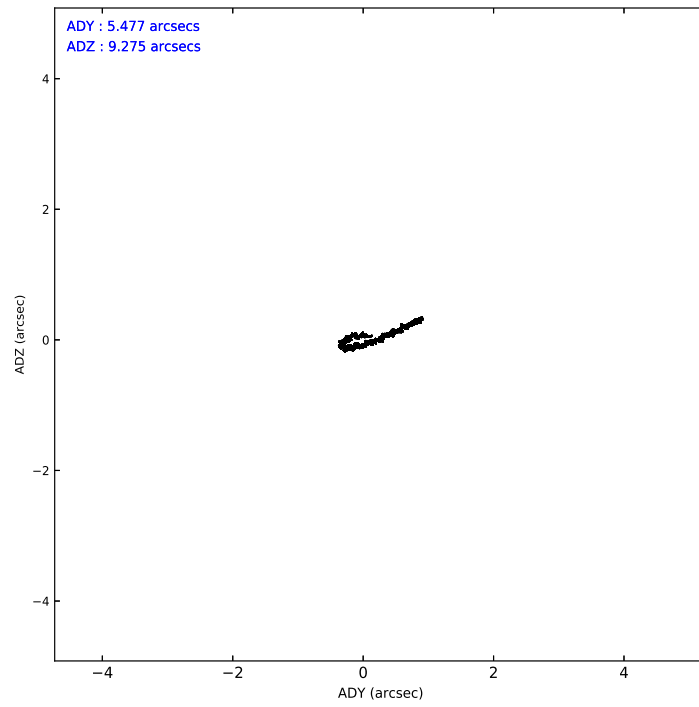
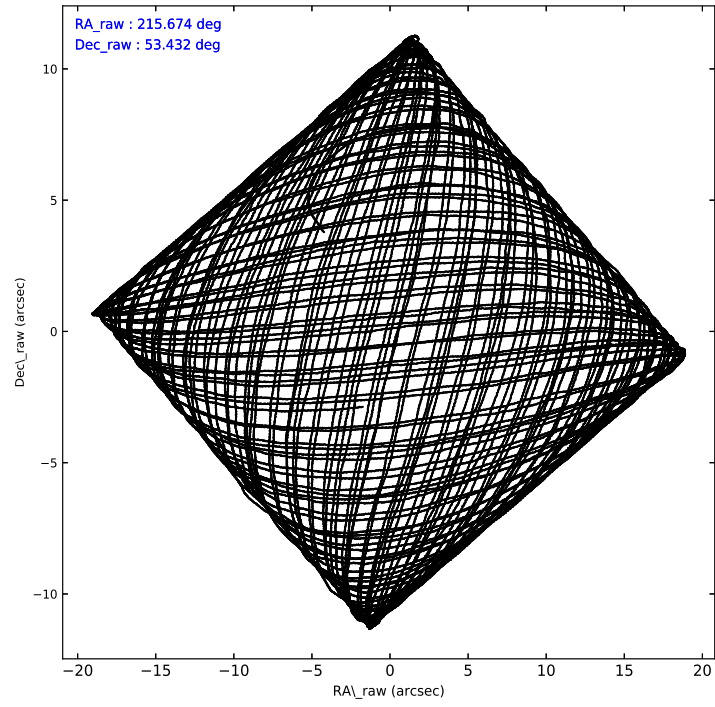
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	266291	263370	299379	281499	283066
rejected events	237927	232000	272001	255407	253804
rejected %	89%	88%	90%	90%	89%

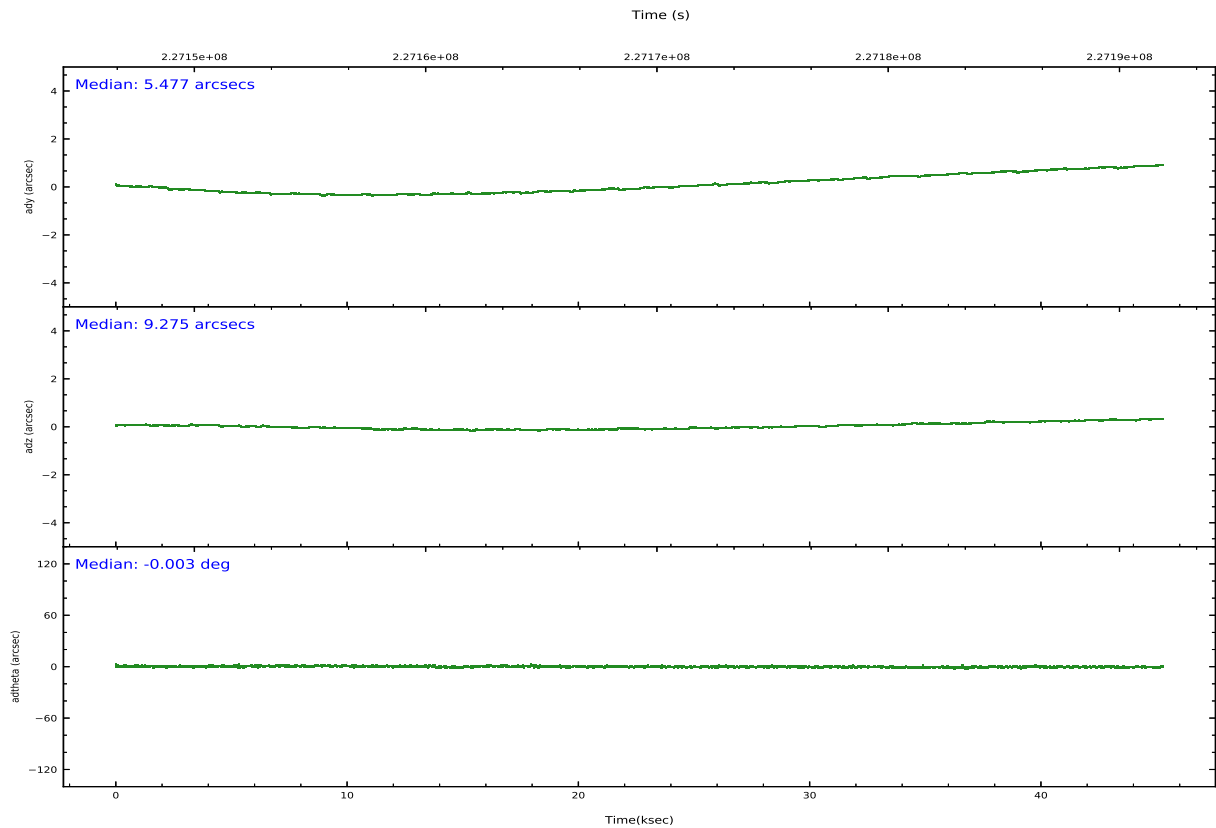
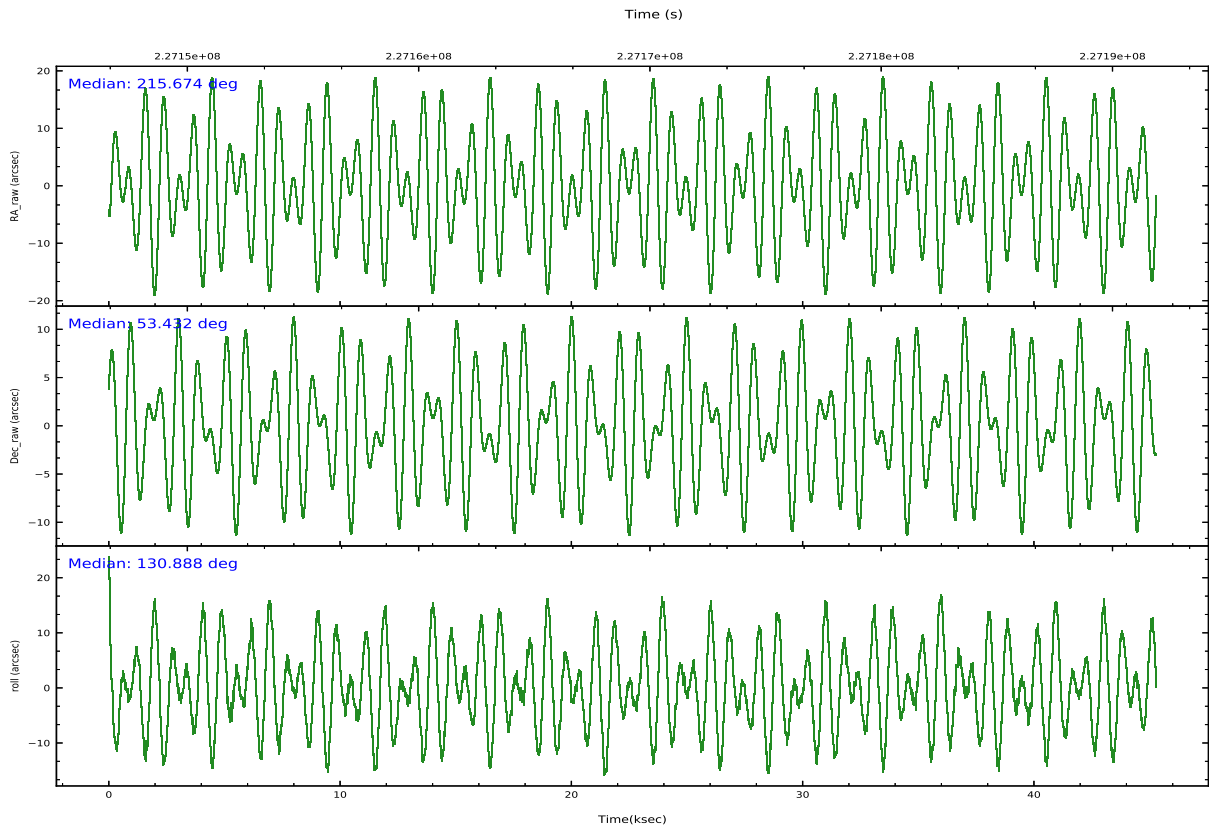
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9945	11209	9606	8947	10451
	3%	4%	3%	3%	3%
grade 1 events	134	130	163	144	129
	0%	0%	0%	0%	0%
grade 2 events	6660	6834	6568	5788	6313
	2%	2%	2%	2%	2%
grade 3 events	3251	3569	3021	3083	3284
	1%	1%	1%	1%	1%
grade 4 events	3081	3470	3096	3033	3169
	1%	1%	1%	1%	1%
grade 5 events	10147	10825	9449	11361	11358
	3%	4%	3%	4%	4%
grade 6 events	5435	6299	5096	5245	6050
	2%	2%	1%	1%	2%
grade 7 events	227638	221034	262380	243898	242312
	85%	83%	87%	86%	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	215.717341	215.67914640981	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.422622	53.432082138407	Alternating exposures requested	N	N
[deg] Pointing Roll	130.649875	130.88810534135	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	50.756000	50.756000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	227146887.184000	227145849.79322			
Observation start date	2005-03-14T00:20:23	2005-03-14T00:04:09			
[s] Observation end time (MET)	227191887.184000	227192814.78285			
Observation end date	2005-03-14T12:50:23	2005-03-14T13:06:54			
Read mode	TIMED	TIMED			

2.3 Aspect





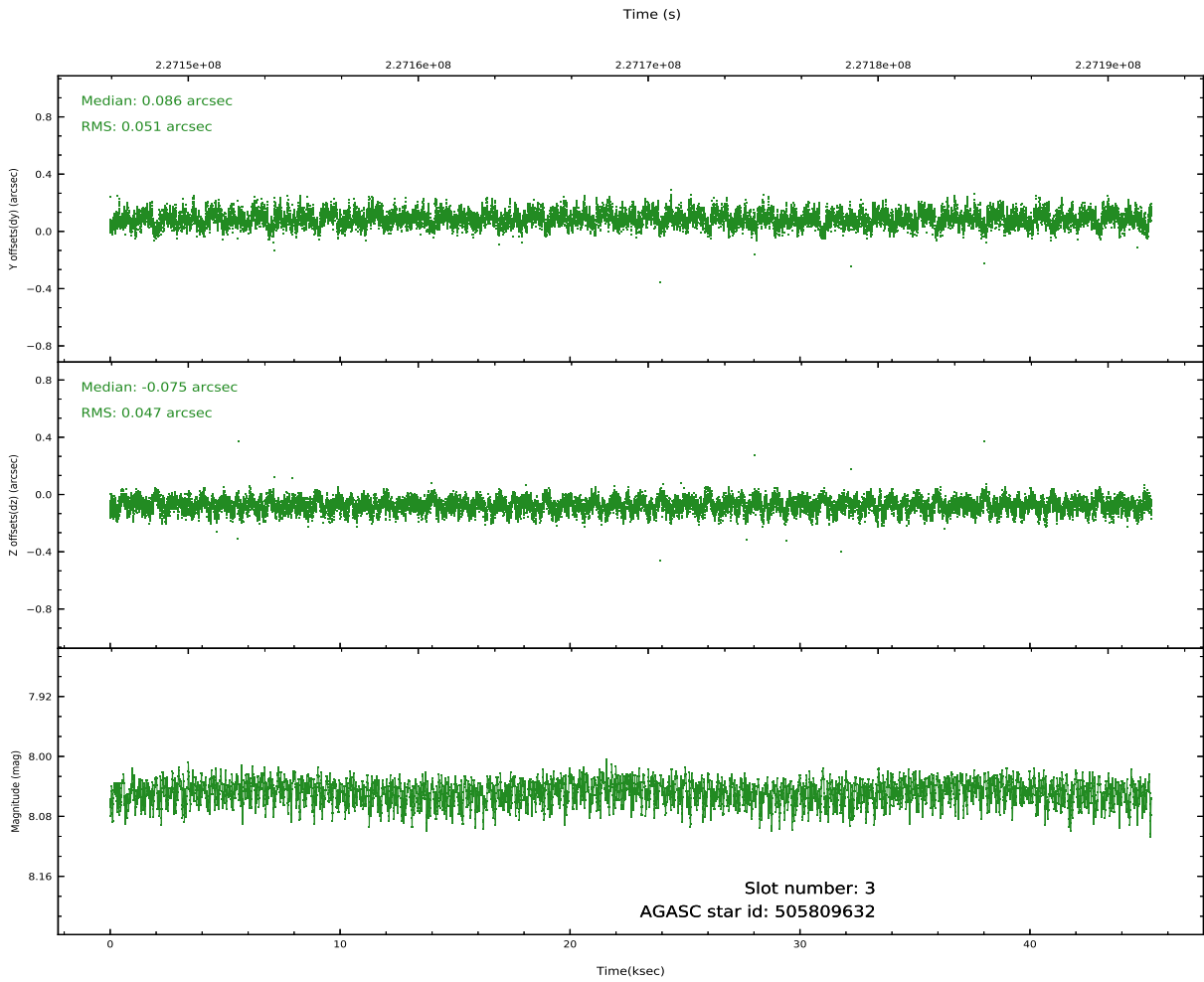
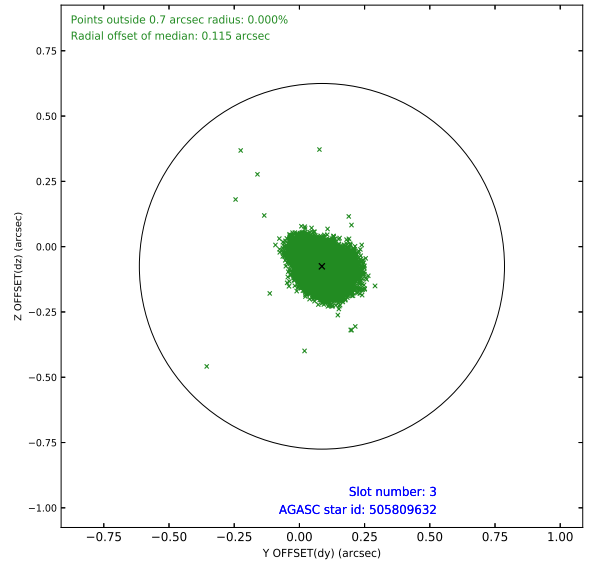
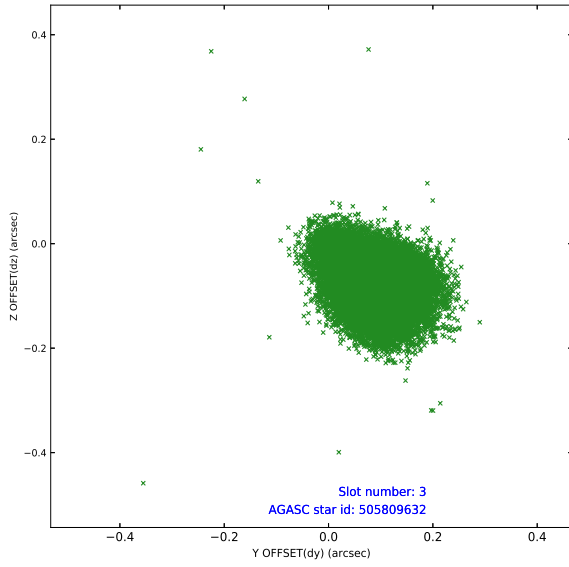
Slot Statistics

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	7.13	11045	1.000	-0.086	-0.089	0.010	0.017	0.000000	0.000000	-760.12	-839
1	FID		ACIS-I-4	7.18	11045	1.000	0.185	0.077	0.011	0.019	0.000000	0.000000	2154.19	1067
2	FID		ACIS-I-5	7.22	11045	1.000	-0.199	0.082	0.011	0.017	0.000000	0.000000	-1814.08	1064
3	GUIDE	used	505809632	8.05	22090	1.000	0.086	-0.075	0.073	0.118	215.499426	53.521185	573.82	122
4	GUIDE	used	505815088	7.29	22089	1.000	-0.002	-0.044	0.065	0.105	216.315963	53.584954	-386.14	-1354
5	GUIDE	used	505817176	8.26	22082	1.000	0.032	0.116	0.074	0.119	216.408138	53.717379	-147.57	-1811
6	GUIDE	used	505817384	8.07	22081	1.000	-0.068	0.031	0.069	0.114	216.827424	53.311152	-1844.63	-1562
7	GUIDE	used	505814280	10.37	22072	1.000	-0.046	-0.018	0.228	0.374	215.666550	52.589481	-2203.53	2038

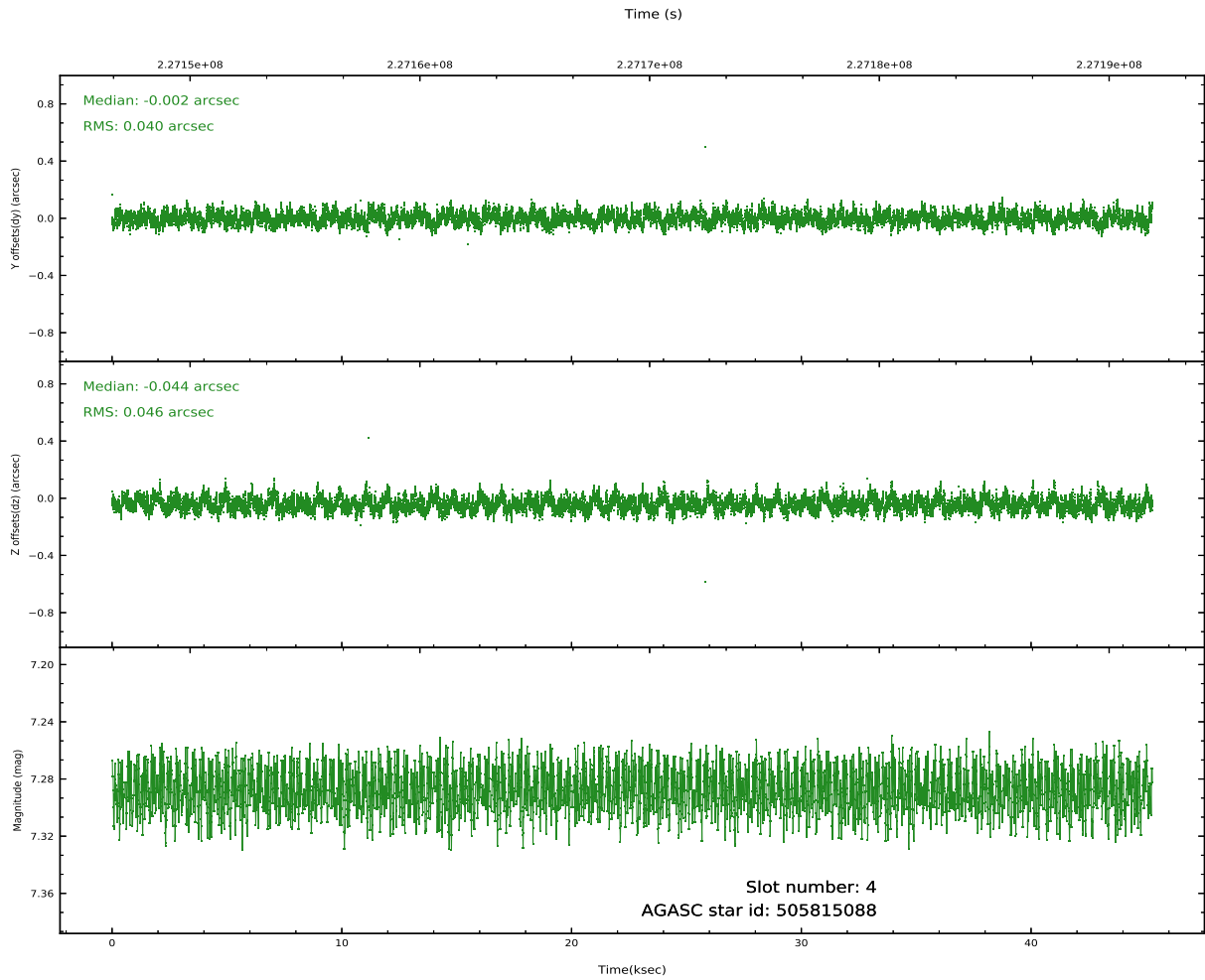
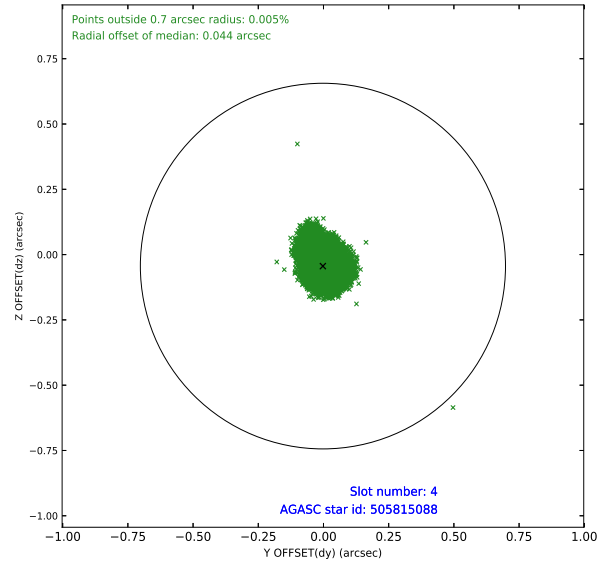
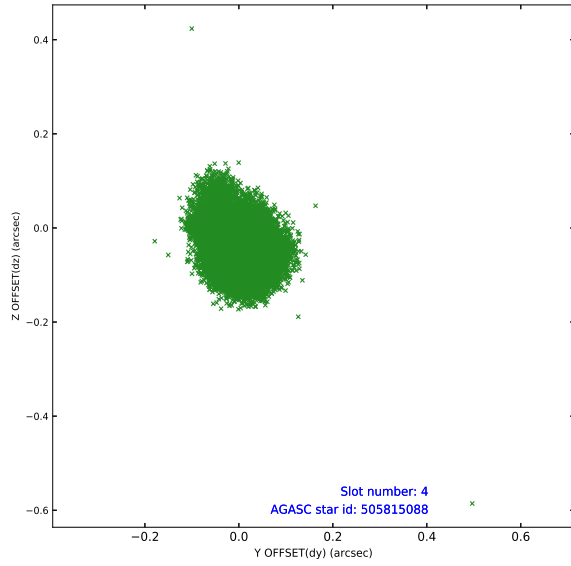
∞

2.4 Star Slots

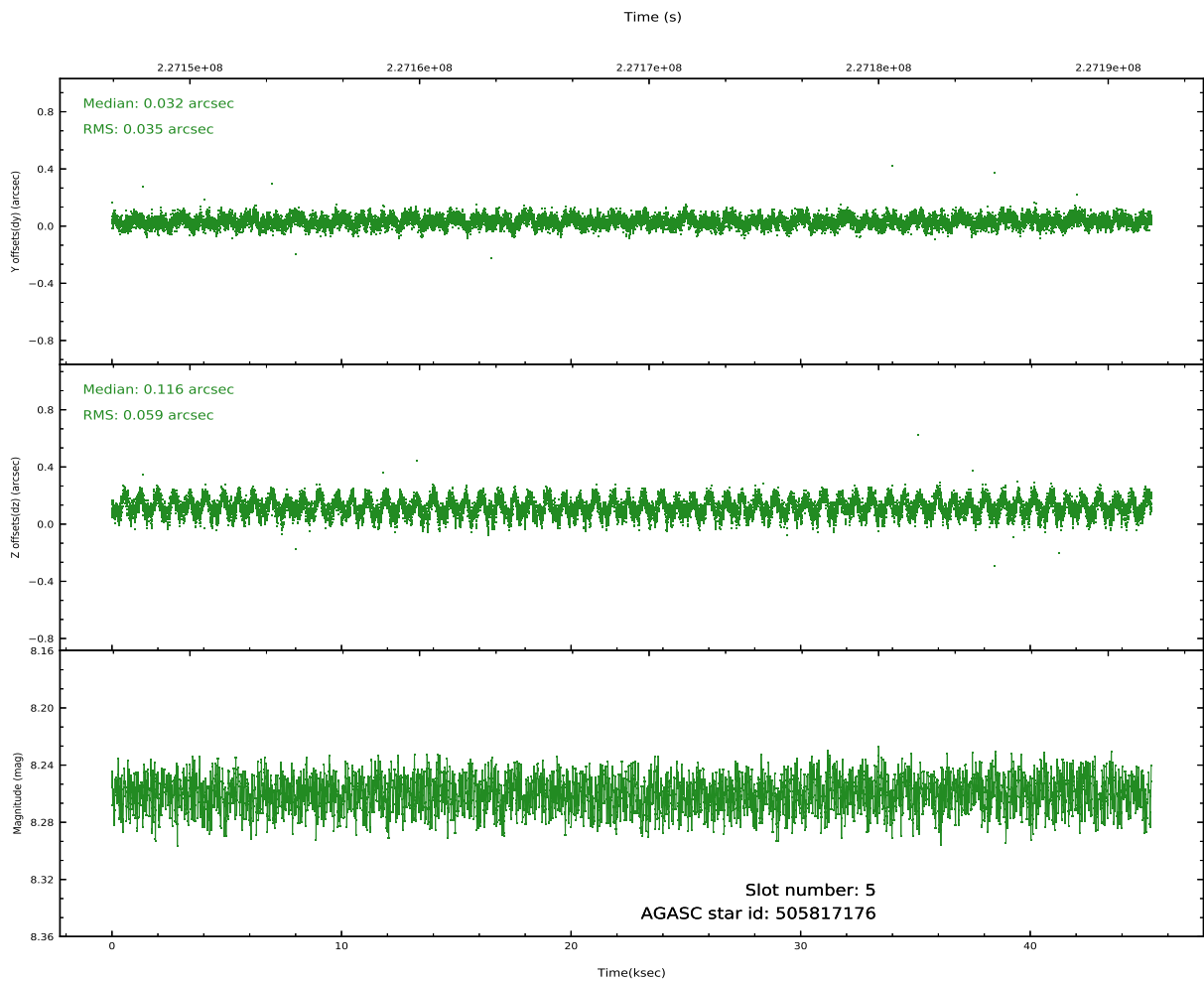
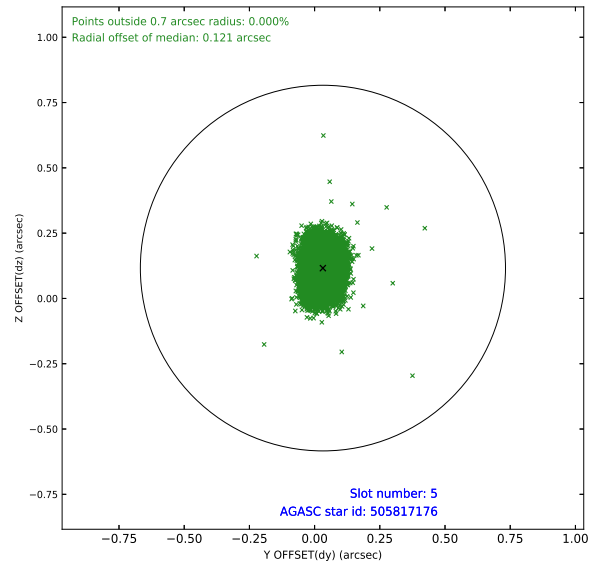
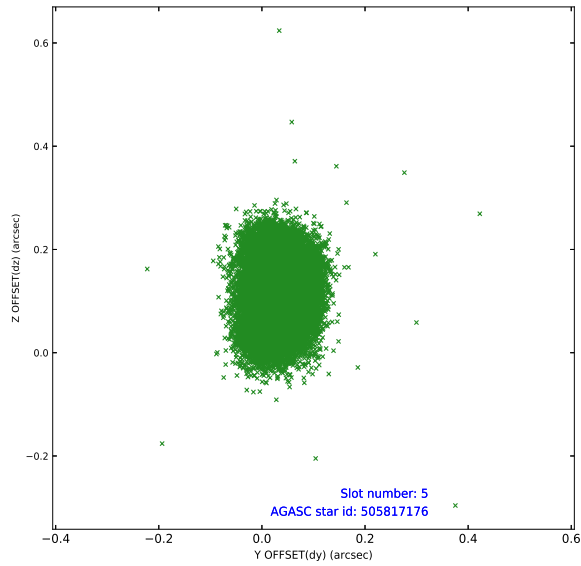
2.4.1 Slot 3



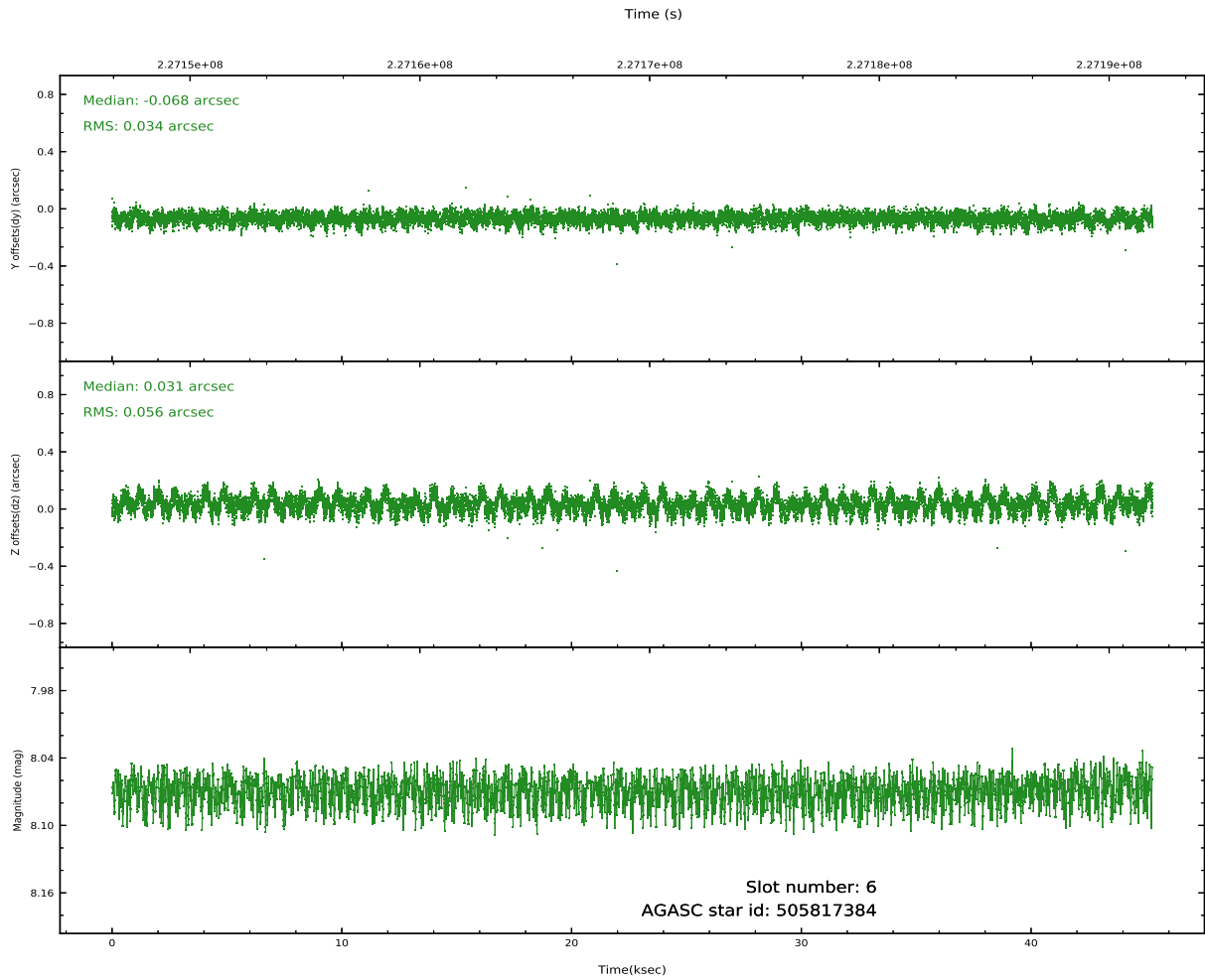
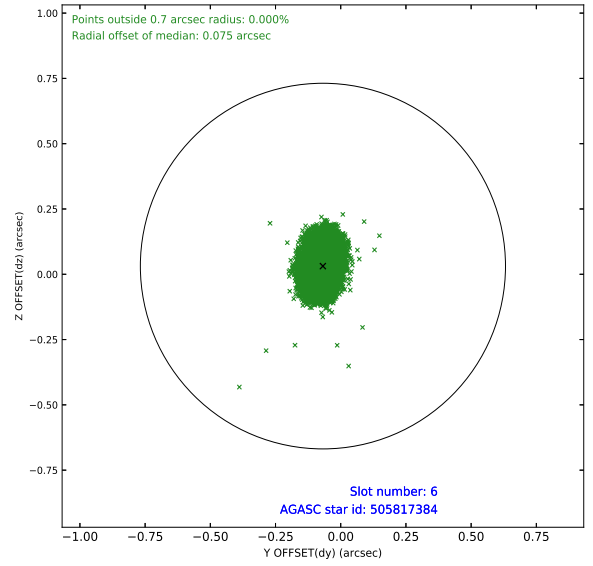
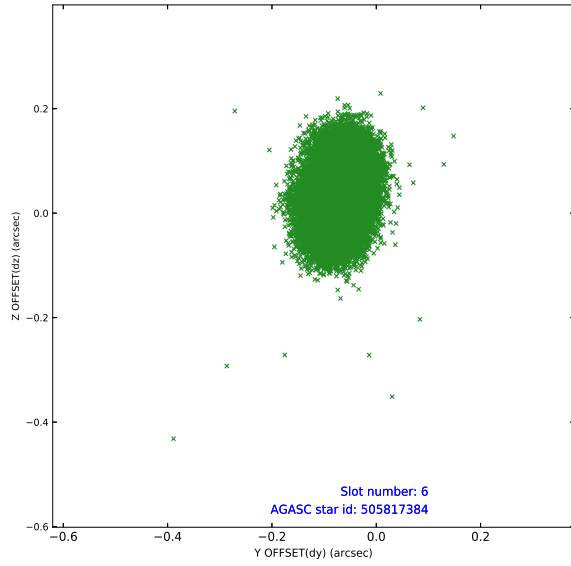
2.4.2 Slot 4



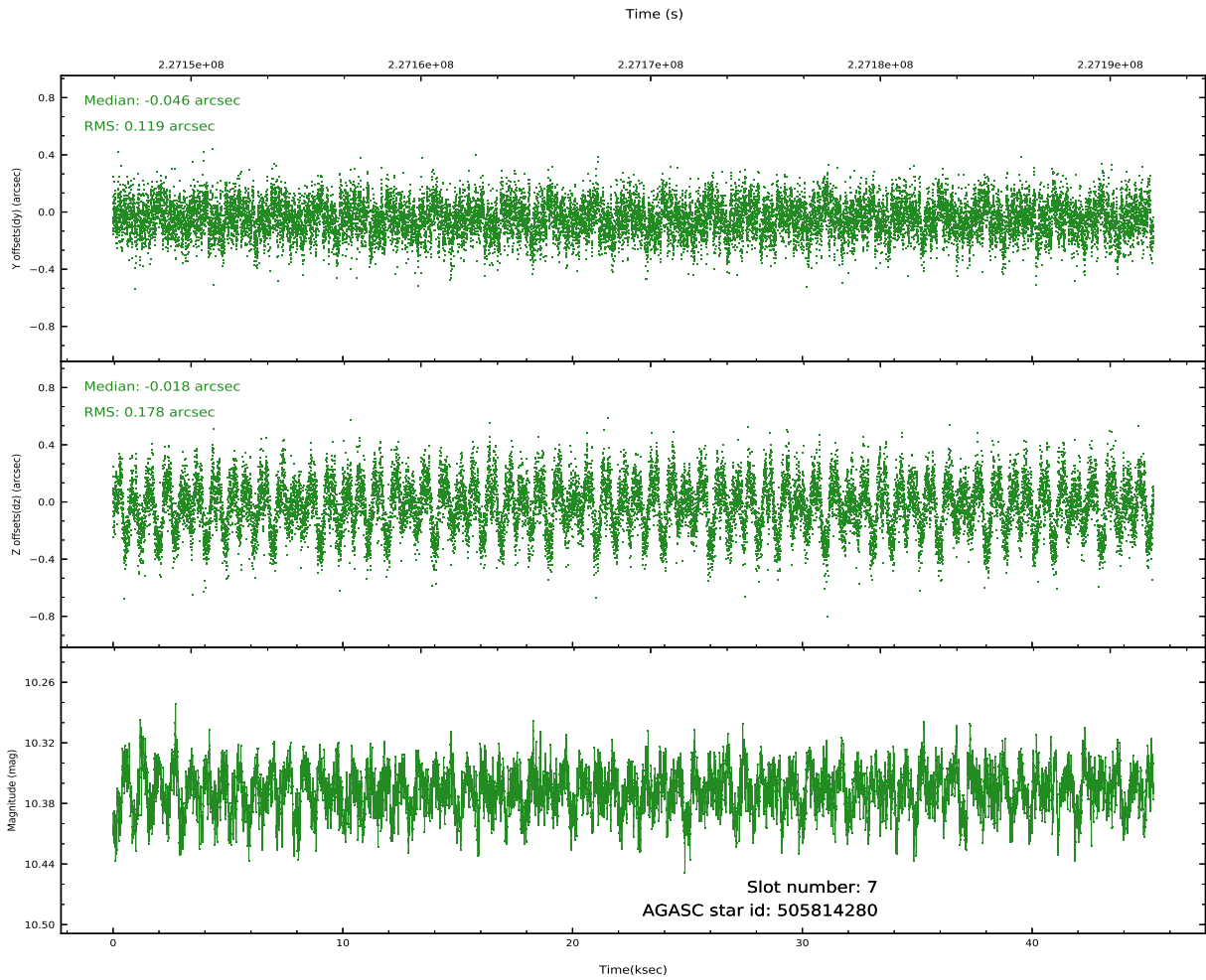
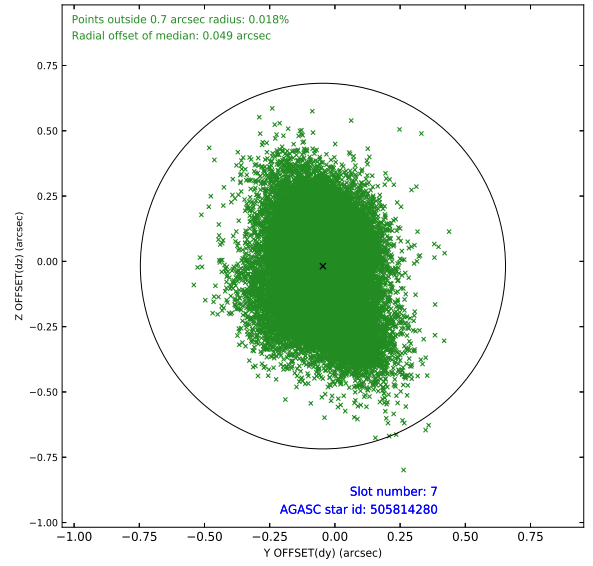
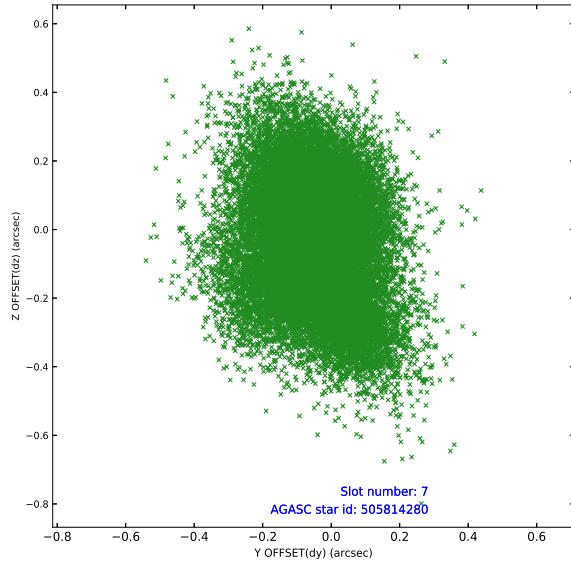
2.4.3 Slot 5



2.4.4 Slot 6

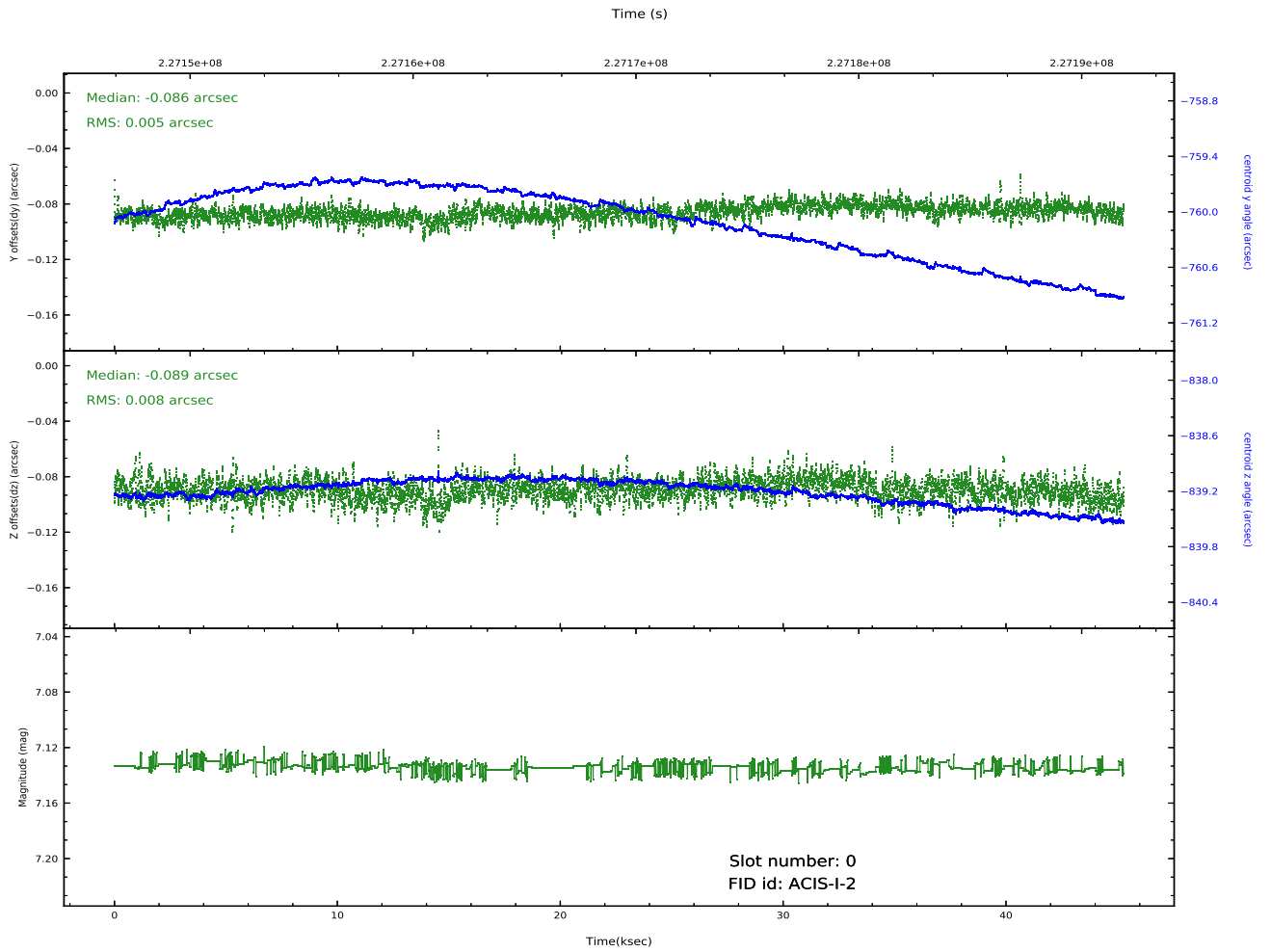
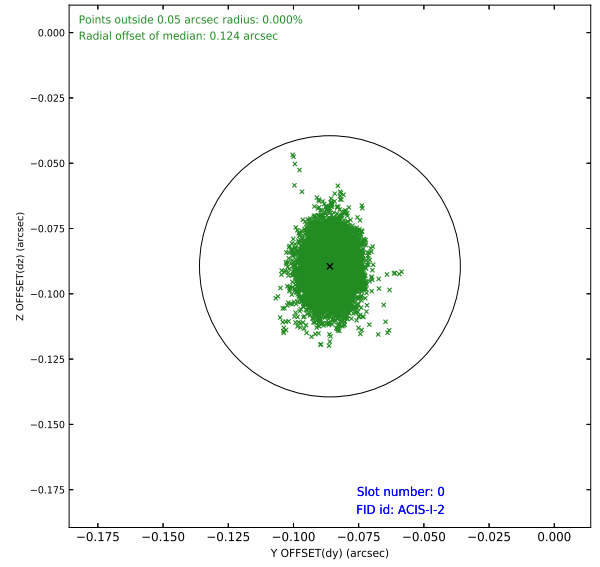
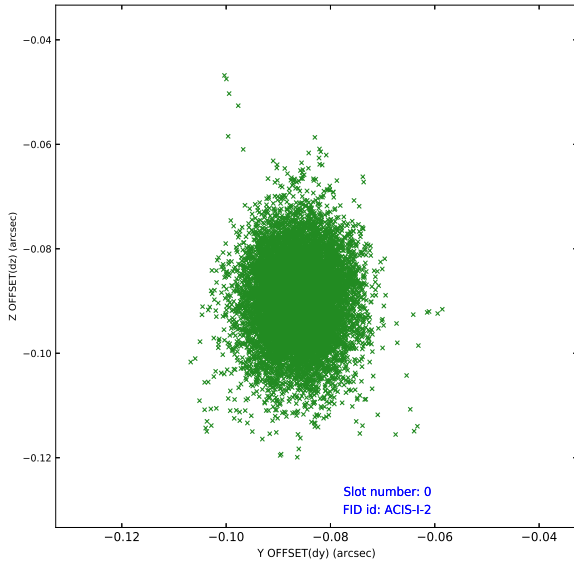


2.4.5 Slot 7

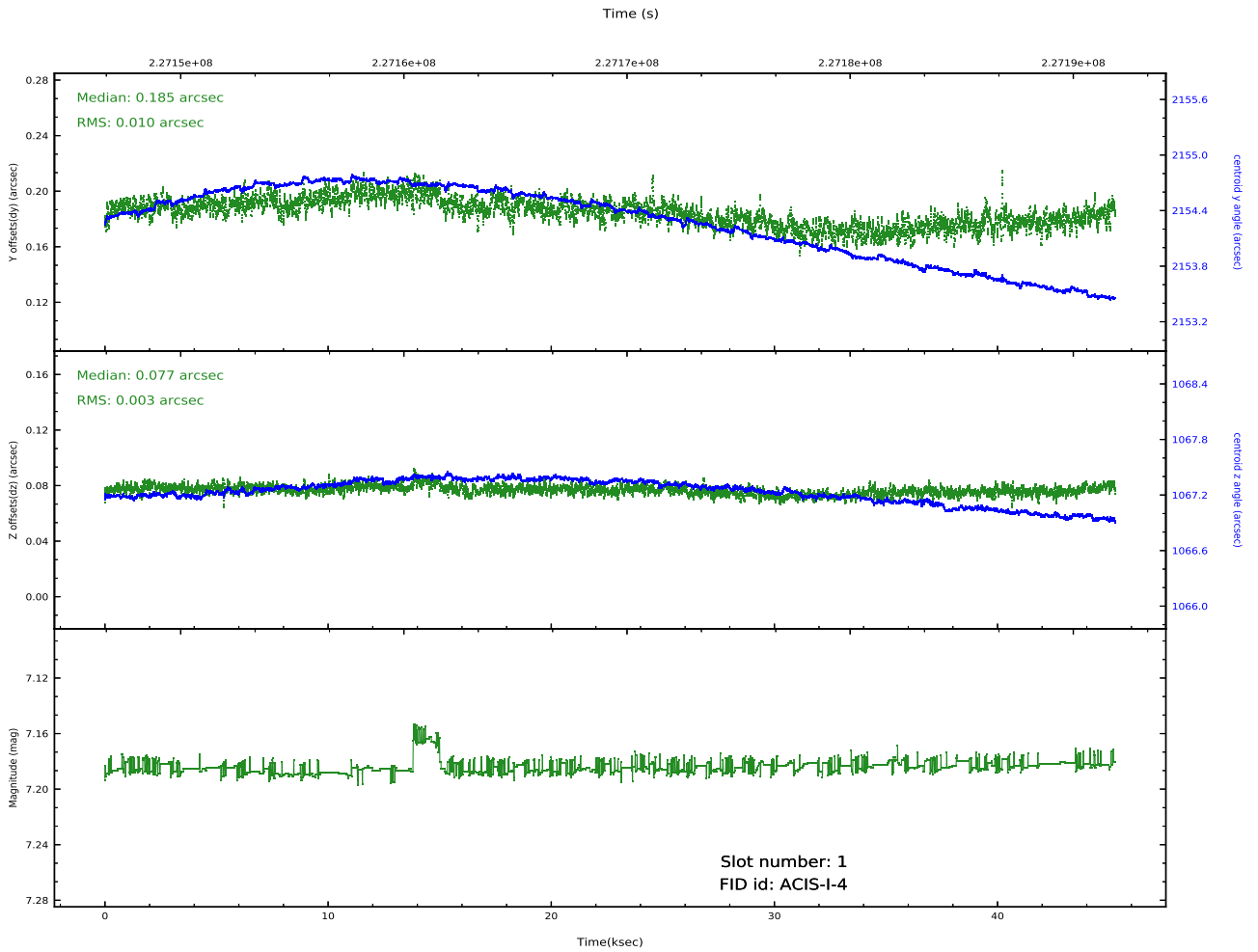
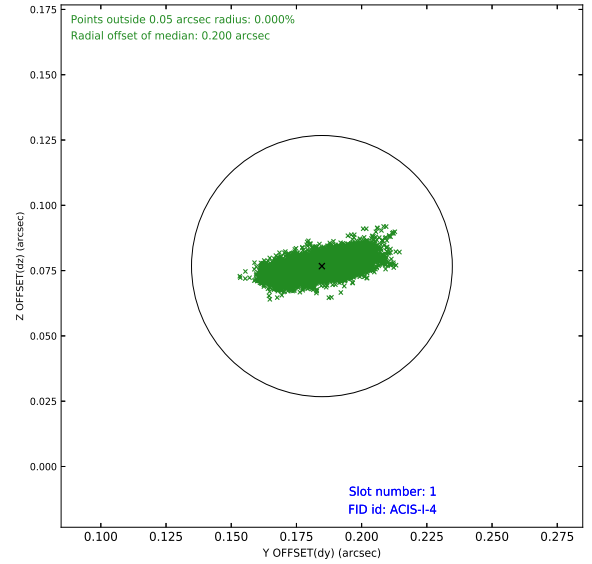
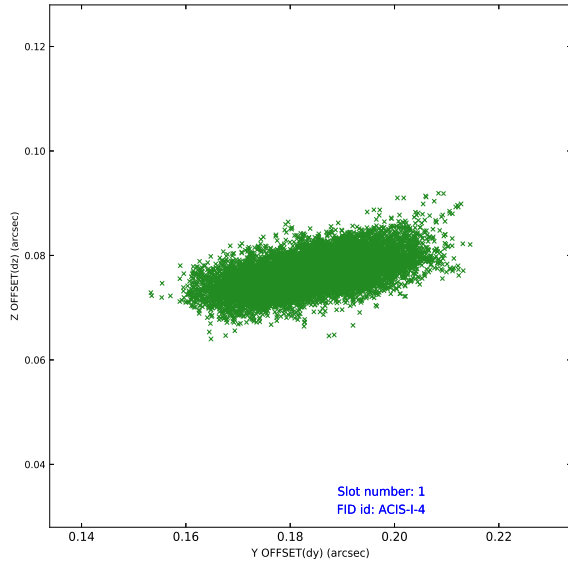


2.5 FID Slots

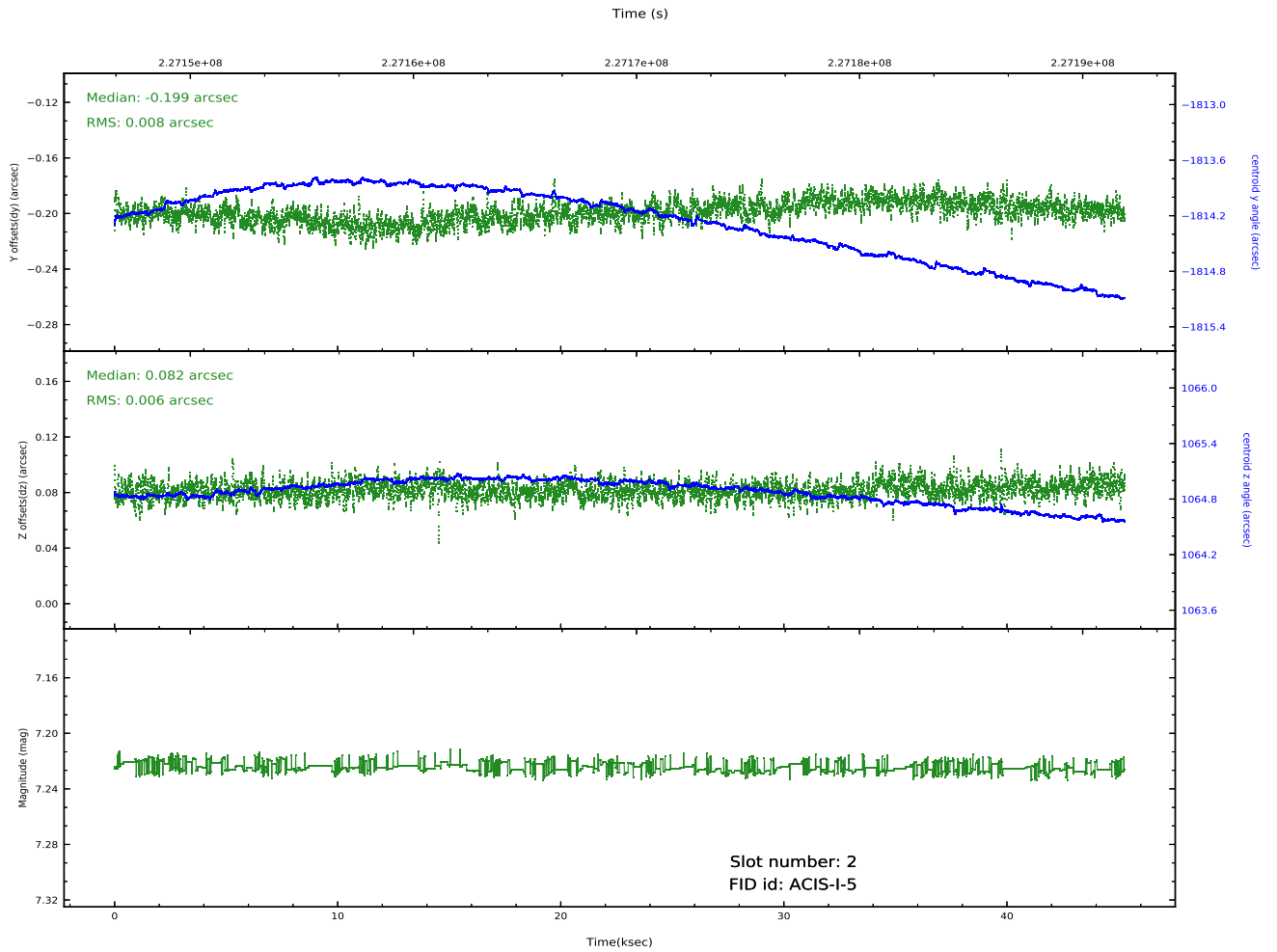
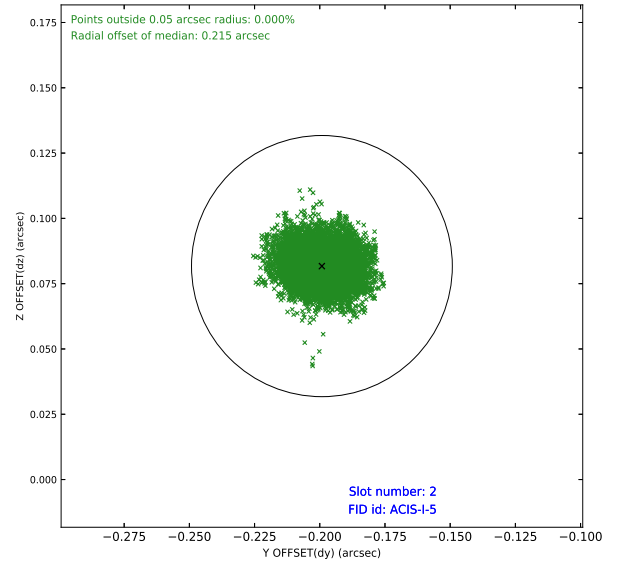
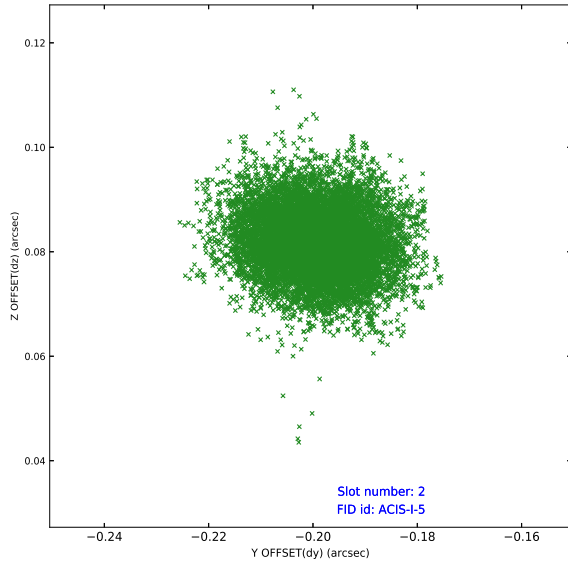
2.5.1 Slot 0



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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.03977

A.2 Comments

Roll constraint was met.