

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5607 - L2 Version 4
Chandra X-Ray Center

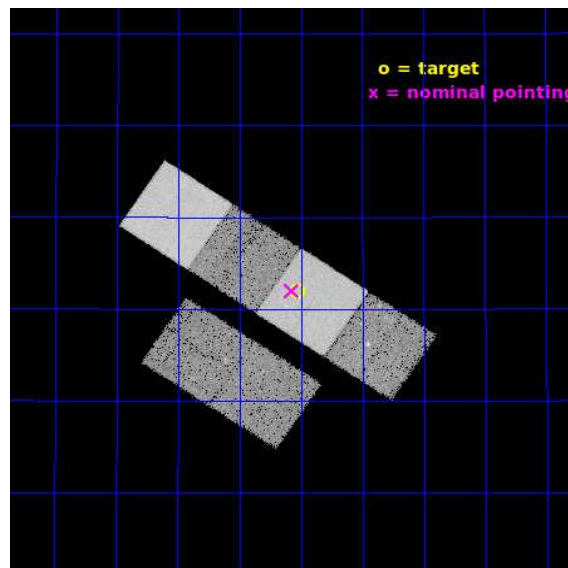
L2 Processing Date : Oct 5 2020

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1 Front

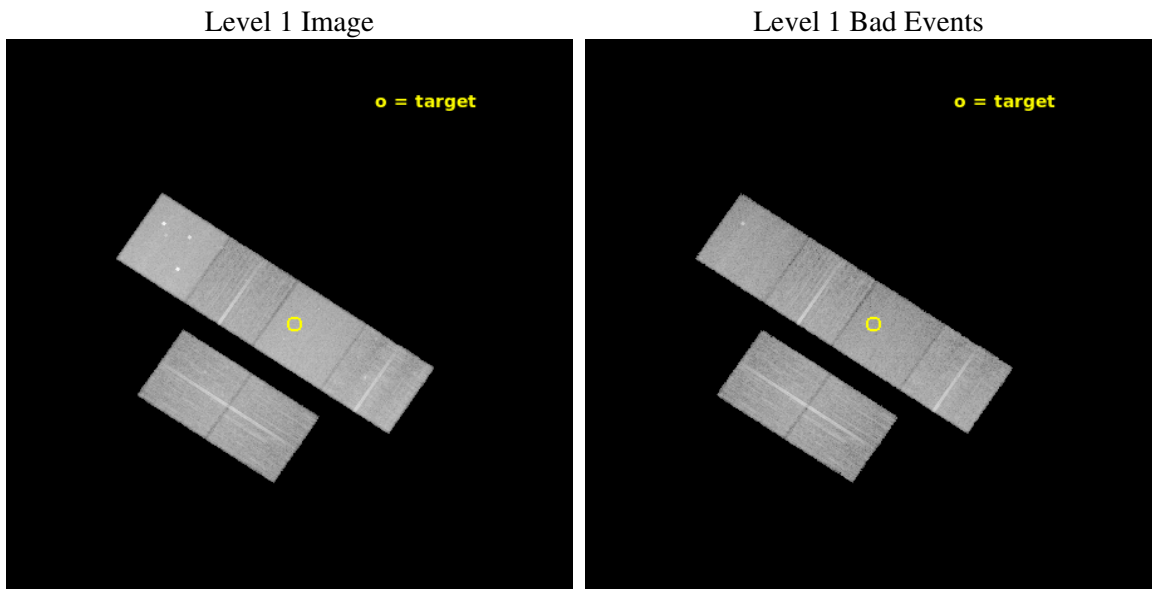
seq_num	701030	Sequence number
obs_id	5607	Observation id
title	A Chandra Survey of the Most Distant Quasars: X-raying the First Massive Black Holes	Proposal title
observer	William Brandt	Principal investigator
object	SDSS J1623+3112	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	245.8825	Observer's specified target RA [deg]
dec_targ	31.200139	Observer's specified target Dec [deg]
ra_nom	245.89324873049	Nominal RA [deg]
dec_nom	31.200175834886	Nominal Dec [deg]
roll_nom	33.784965379866	Nominal Roll [deg]
revision	4	Processing version of data
ontime	17433.599935055	Sum of GTIs [s]
livetime	17212.845195424	Livetime [s]
ontime2	17433.599935055	Sum of GTIs [s]
ontime3	17433.599935055	Sum of GTIs [s]
ontime5	17433.599935055	Sum of GTIs [s]
ontime6	17433.599935055	Sum of GTIs [s]
ontime7	17433.599935055	Sum of GTIs [s]
ontime8	17433.599935055	Sum of GTIs [s]
l2events	206620	Number of level 2 events



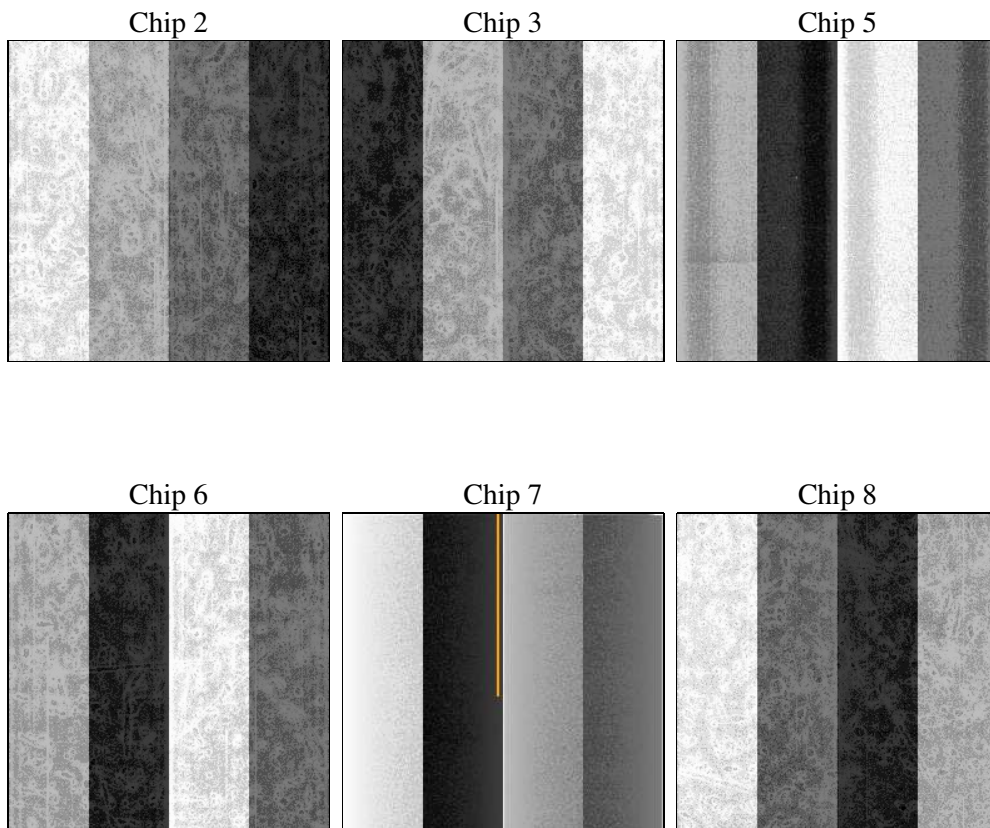
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17300.025000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	17433.599935055	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	17433.599935055	Sum of GTIs [s]
date	2020-10-05T19:33:59	Date and time of file creation	ontime3	17433.599935055	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	17433.599935055	Sum of GTIs [s]
			ontime6	17433.599935055	Sum of GTIs [s]
			ontime7	17433.599935055	Sum of GTIs [s]
			ontime8	17433.599935055	Sum of GTIs [s]
			l1events	950899	Number of level 1 events

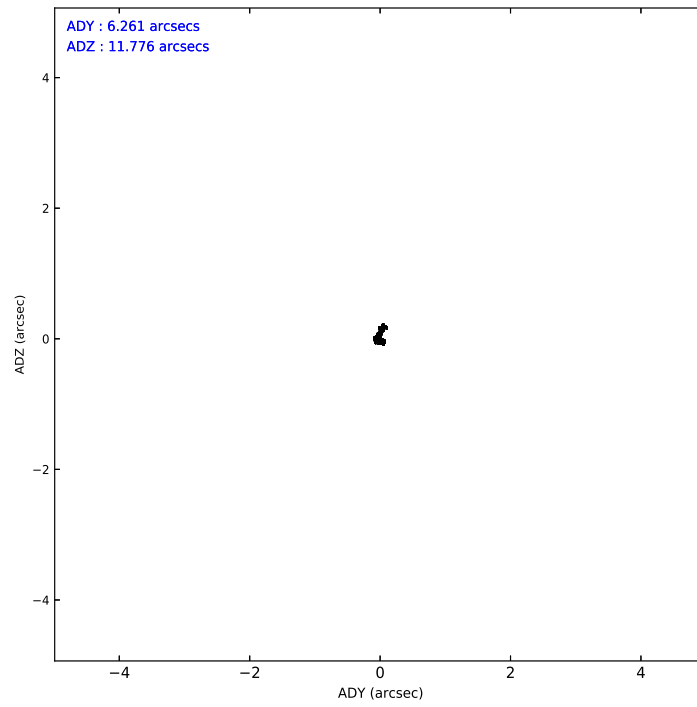
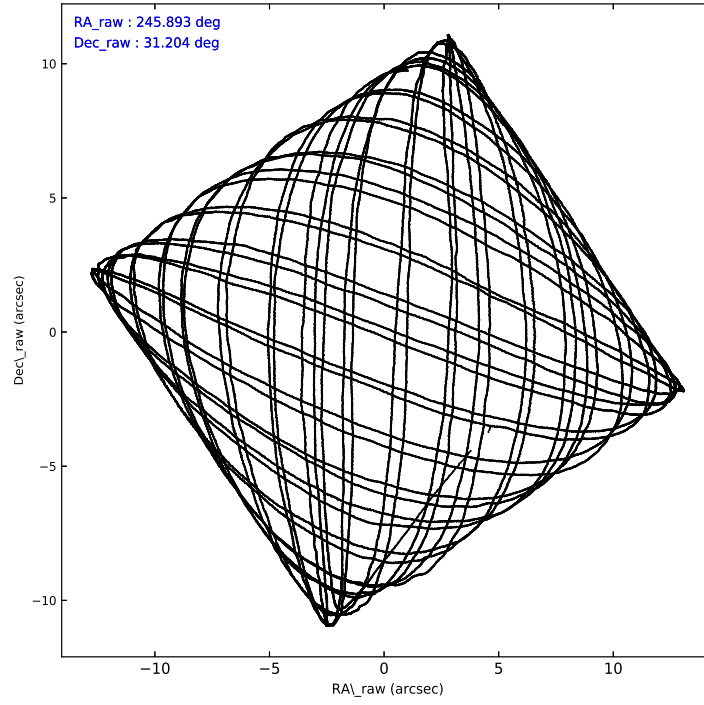
2.1.4 Events

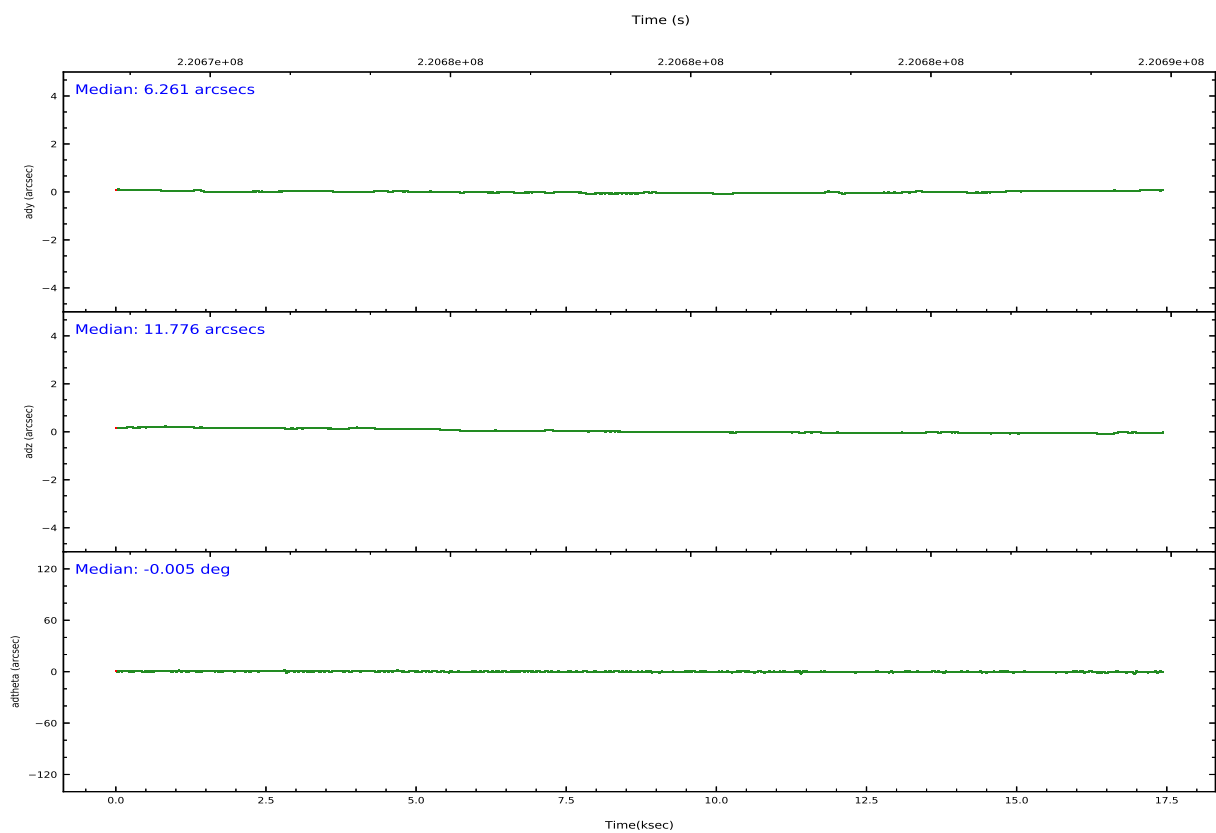
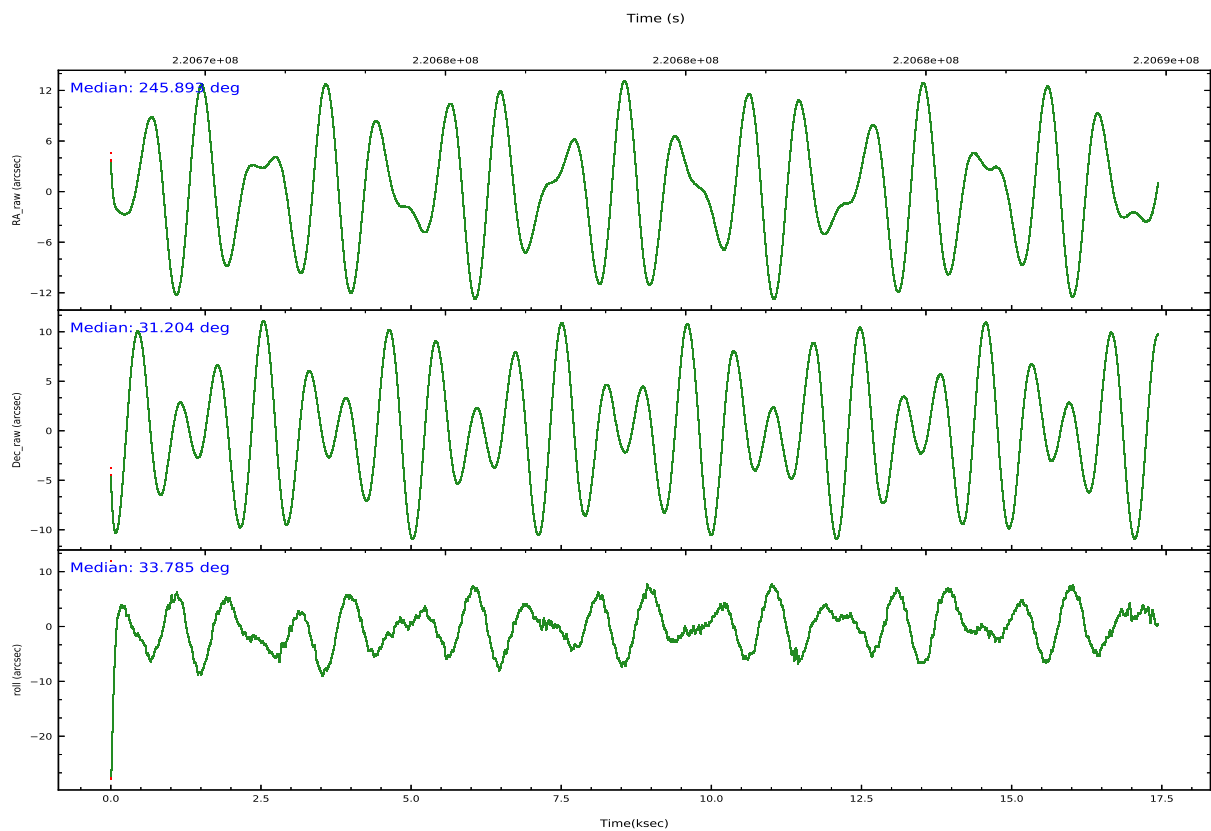
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	137576	130674	203207	133993	178843	166606	grade 0 events	7571	6752	11157	6334	6761	12181
rejected events	121704	115754	112019	118494	107407	131377		5%	5%	5%	4%	3%	7%
rejected %	88%	88%	55%	88%	60%	78%	grade 1 events	85	100	254	74	175	99
								0%	0%	0%	0%	0%	0%
							grade 2 events	3301	3017	29158	3441	14826	7999
								2%	2%	14%	2%	8%	4%
							grade 3 events	1511	1499	3568	1537	6644	3810
								1%	1%	1%	1%	3%	2%
							grade 4 events	1456	1505	3426	1541	6530	3653
								1%	1%	1%	1%	3%	2%
							grade 5 events	5248	5925	14669	6169	17108	7992
								3%	4%	7%	4%	9%	4%
							grade 6 events	2681	2750	47505	3202	39372	9057
								1%	2%	23%	2%	22%	5%
							grade 7 events	115723	109126	93470	111695	87427	121815
								84%	83%	45%	83%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	245.879179	245.89324873049	Subarray requested	NONE	NONE
[deg] Pointing Dec	31.179432	31.200175834886	Alternating exposures requested	N	N
[deg] Pointing Roll	33.634733	33.784965379866	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	220670566.184000	220669187.12548			
Observation start date	2004-12-29T01:21:42	2004-12-29T00:59:47			
[s] Observation end time (MET)	220687866.184000	220688094.27634			
Observation end date	2004-12-29T06:10:02	2004-12-29T06:14:54			
Read mode	TIMED	TIMED			

2.3 Aspect



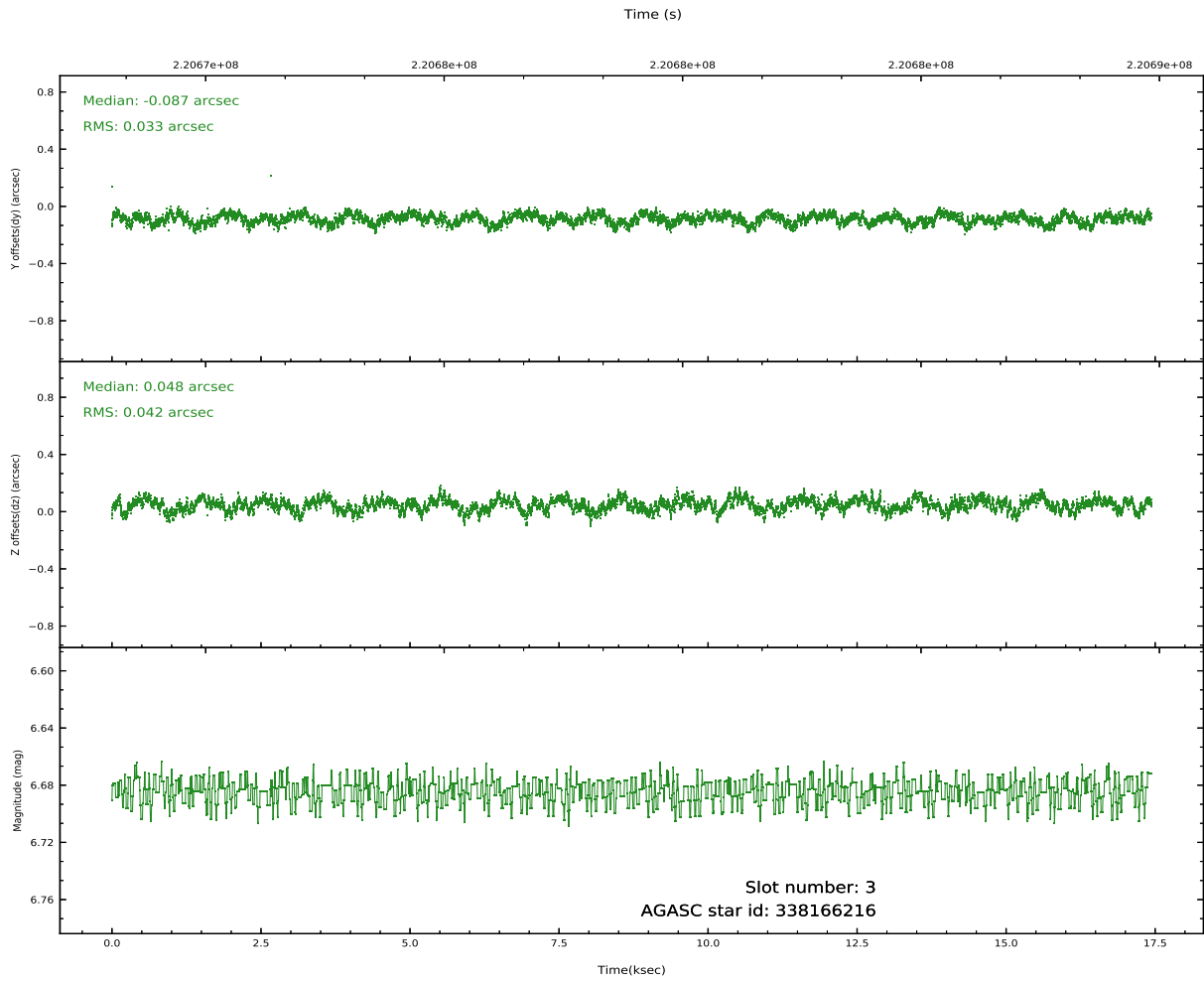
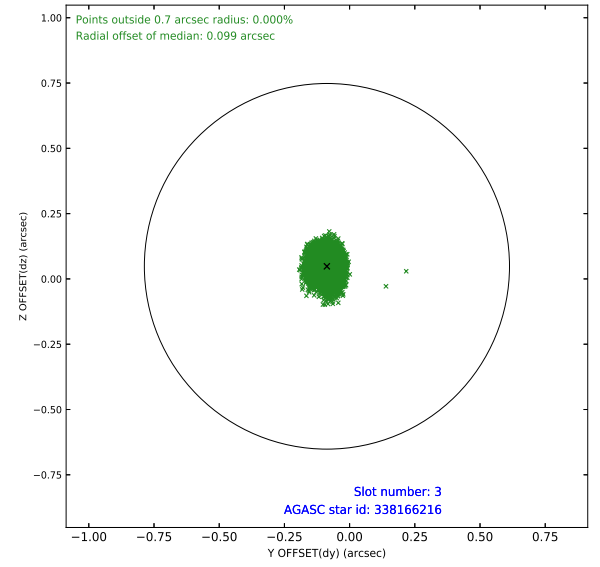
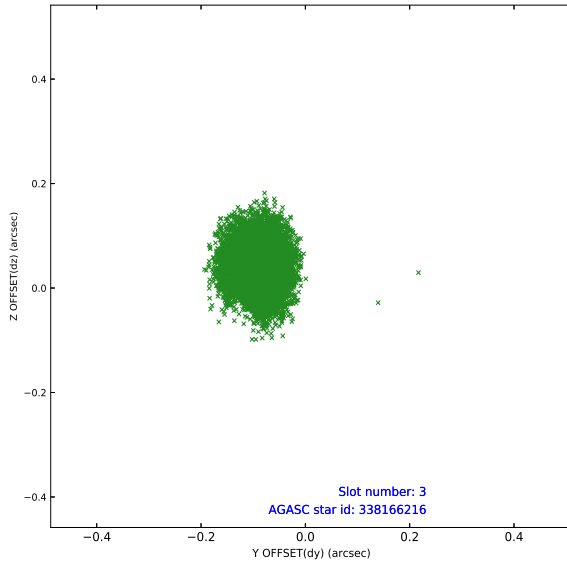


Slot Statistics

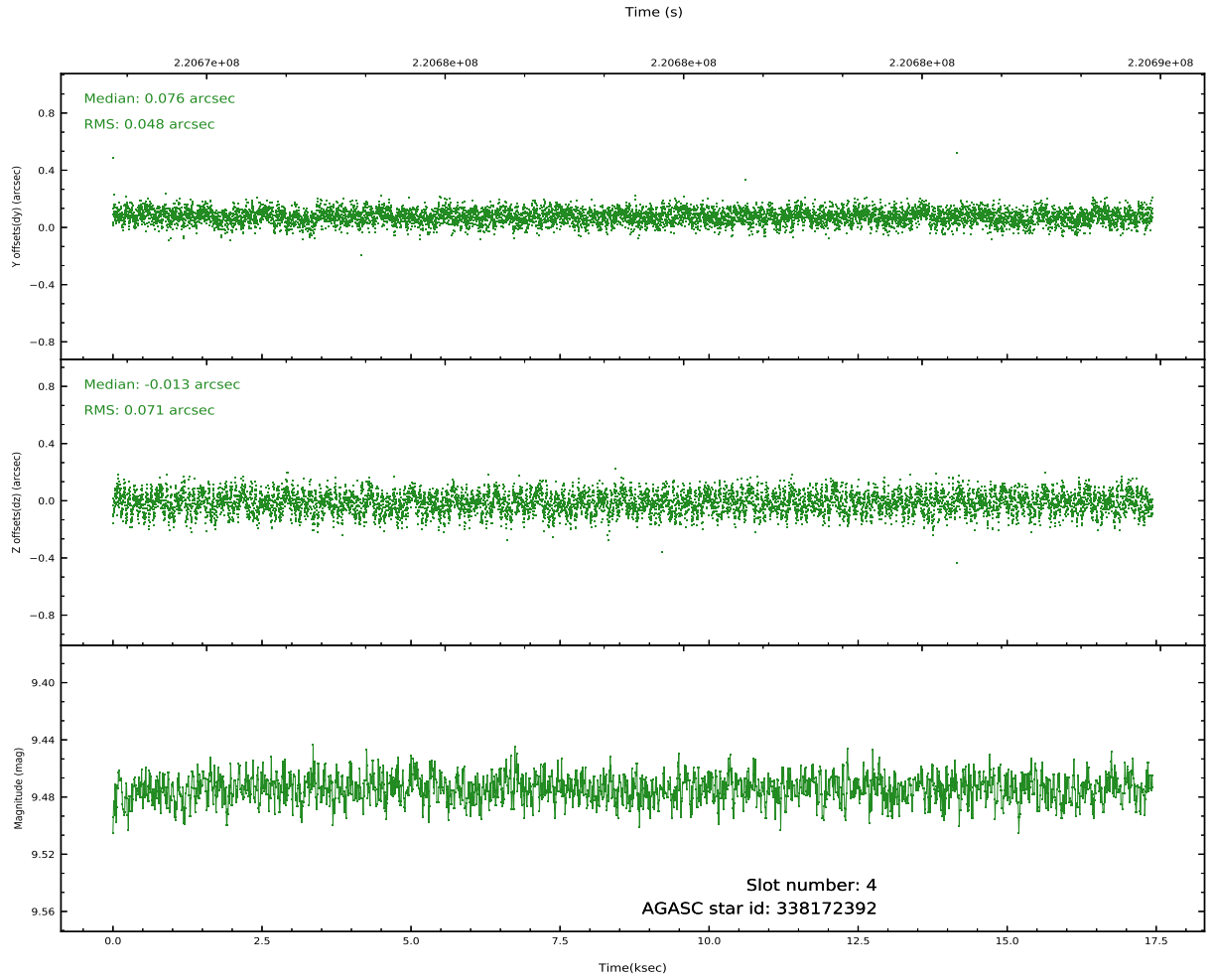
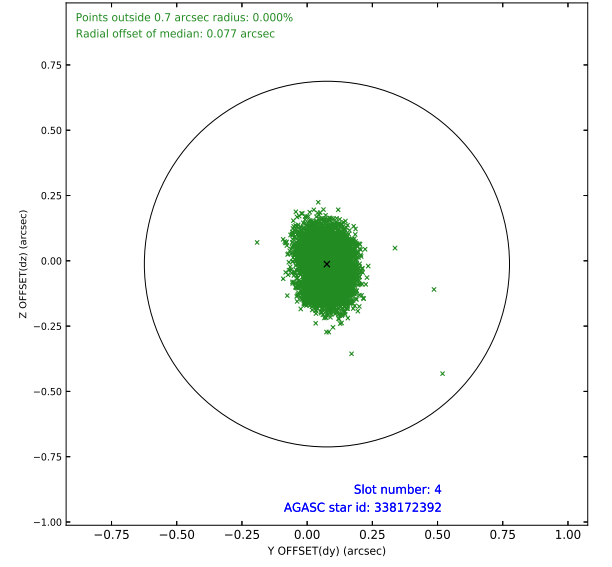
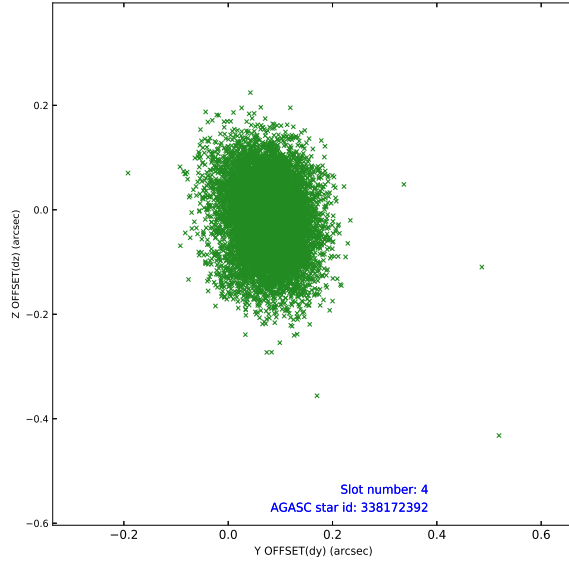
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	4254	1.000	0.010	-0.119	0.007	0.013	0.000000	0.000000	937.04	-1728
1	FID		ACIS-S-4	7.20	4254	1.000	0.092	0.082	0.006	0.011	0.000000	0.000000	2154.67	175
2	FID		ACIS-S-5	7.23	4254	1.000	-0.128	0.049	0.007	0.012	0.000000	0.000000	-1811.66	169
3	GUIDE	used	338166216	6.68	8508	1.000	-0.087	0.048	0.057	0.089	245.771275	30.850165	-933.93	-801
4	GUIDE	used	338172392	9.47	8504	1.000	0.076	-0.013	0.092	0.148	245.989373	30.613871	-843.27	-1884
5	GUIDE	used	338172952	9.71	8506	1.000	0.052	-0.067	0.121	0.208	245.483205	31.208640	-955.41	764
6	GUIDE	used	338310040	8.56	8505	1.000	-0.188	-0.056	0.062	0.100	246.276928	31.741209	2135.22	1011
7	GUIDE	used	338298824	9.62	8506	1.000	0.142	0.089	0.134	0.214	246.080341	32.075763	2299.13	2347

2.4 Star Slots

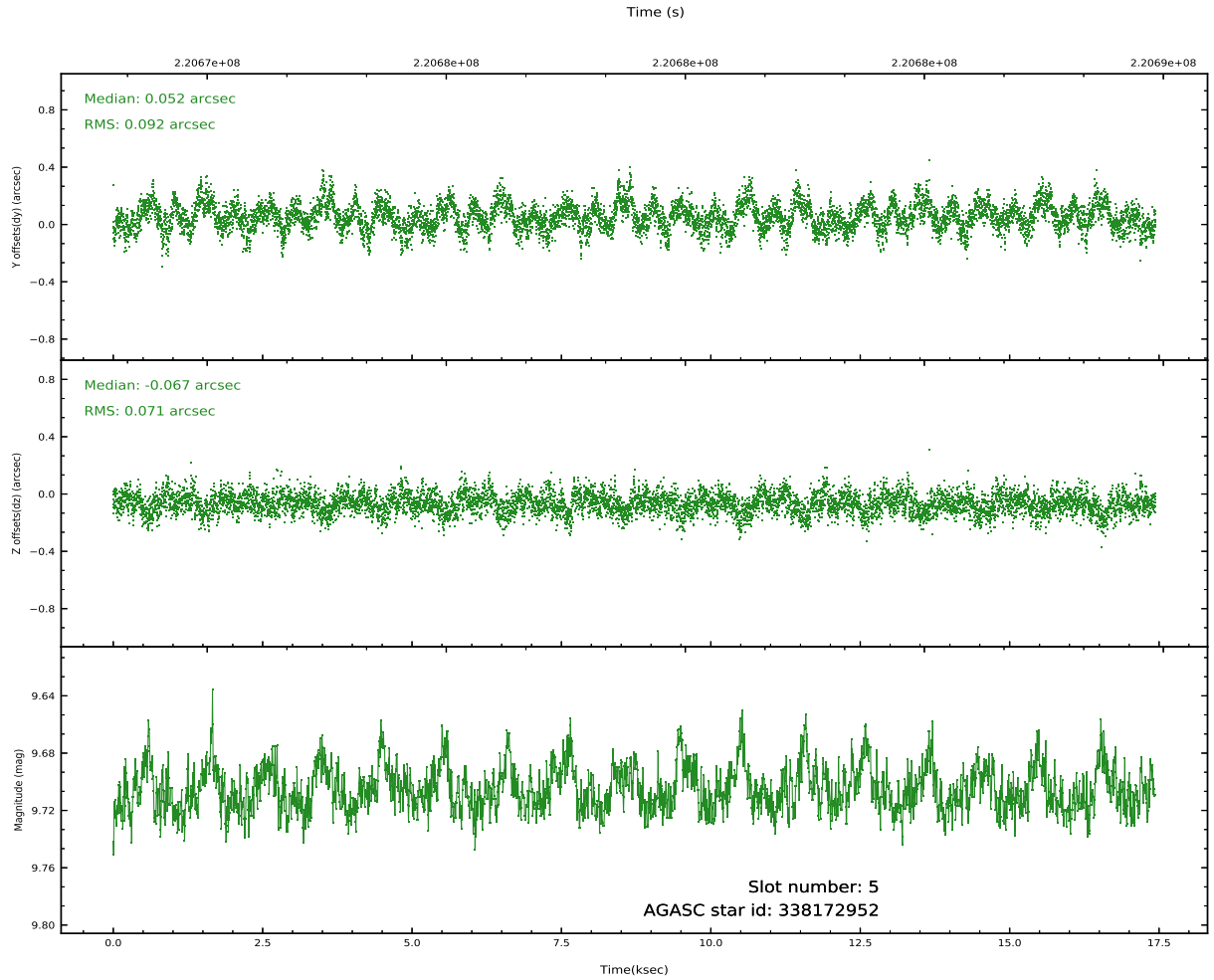
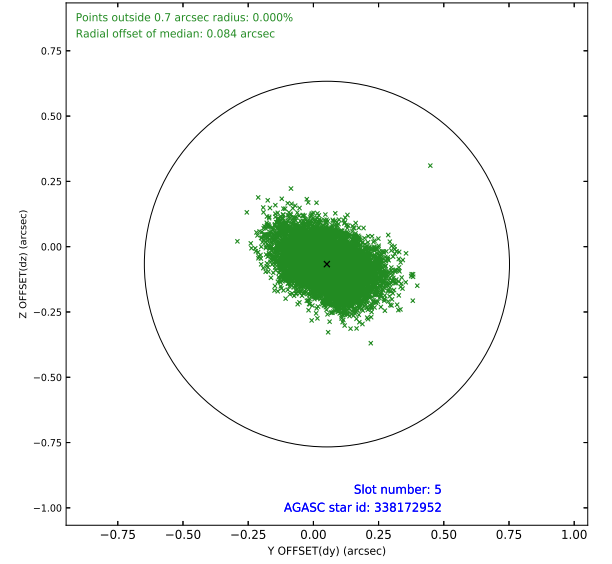
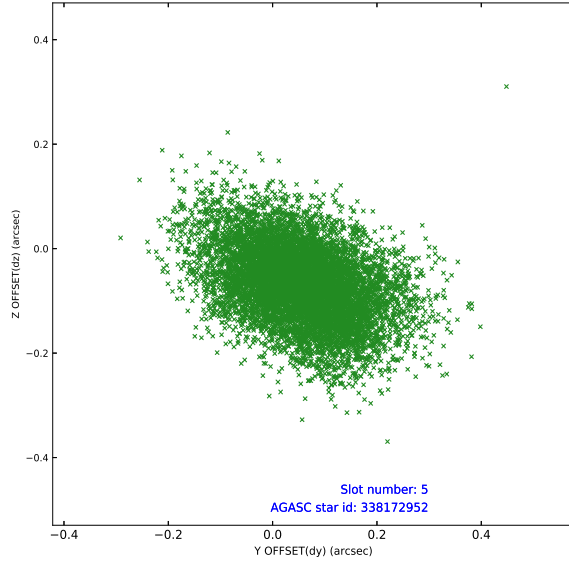
2.4.1 Slot 3



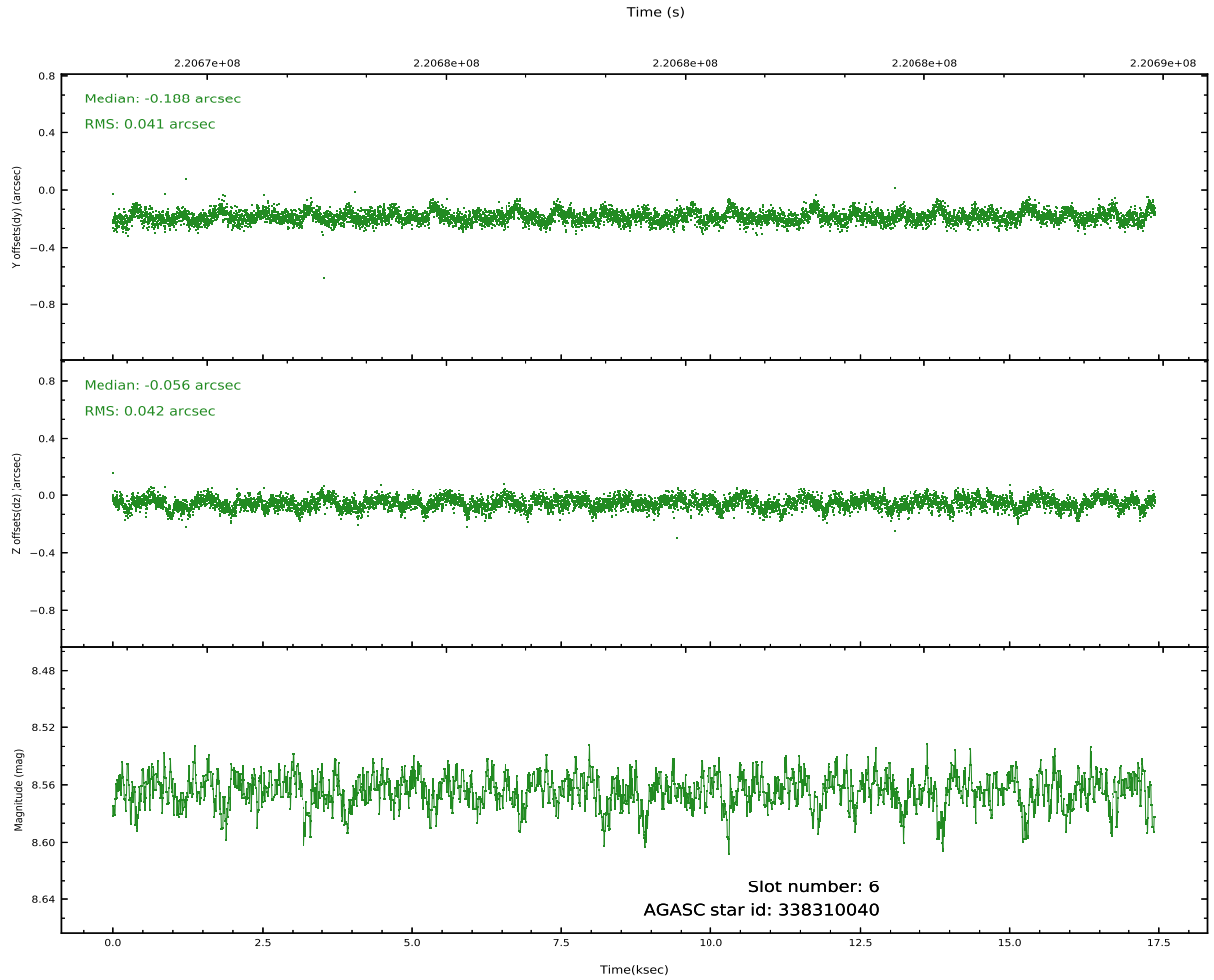
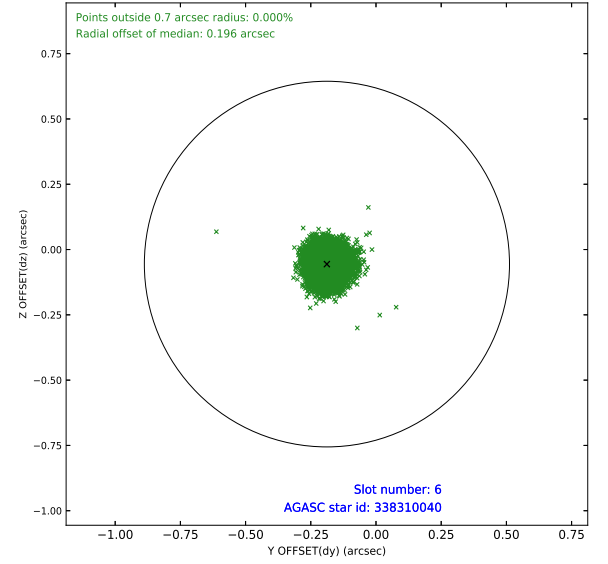
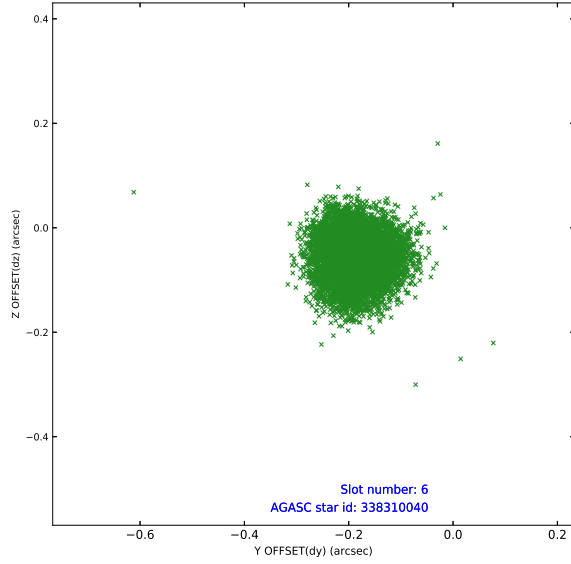
2.4.2 Slot 4



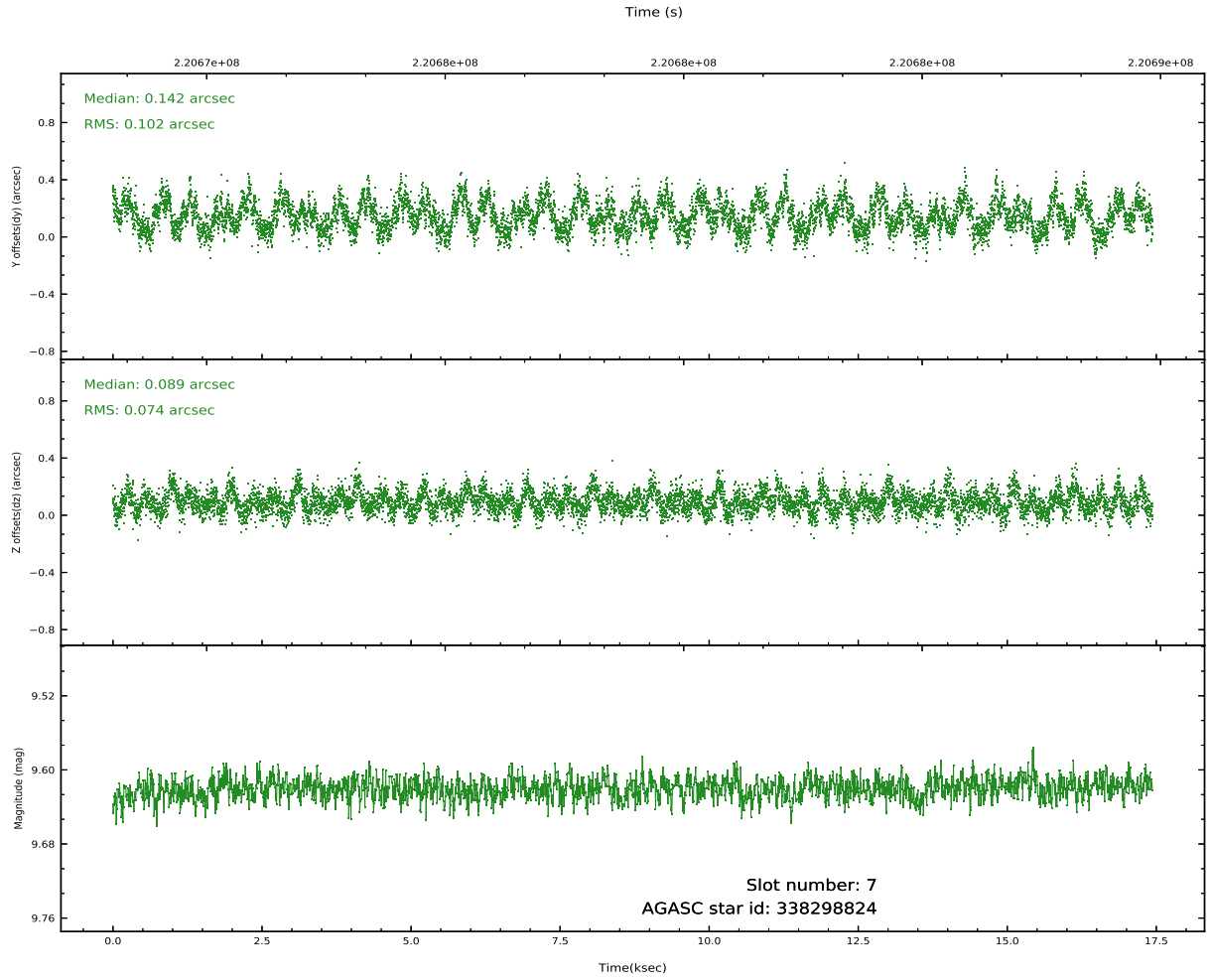
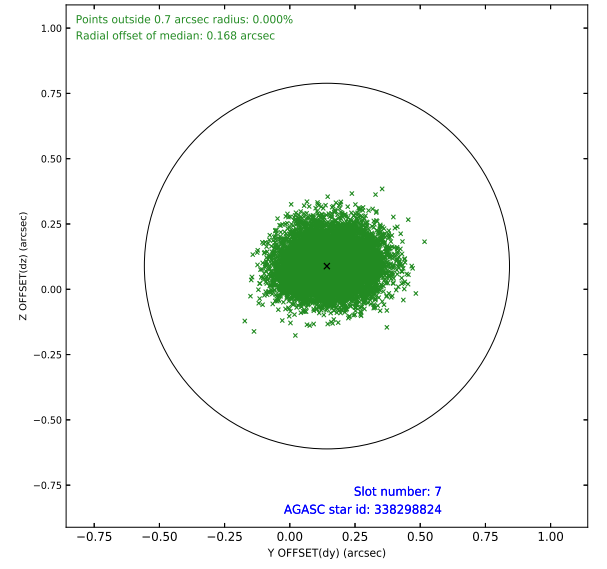
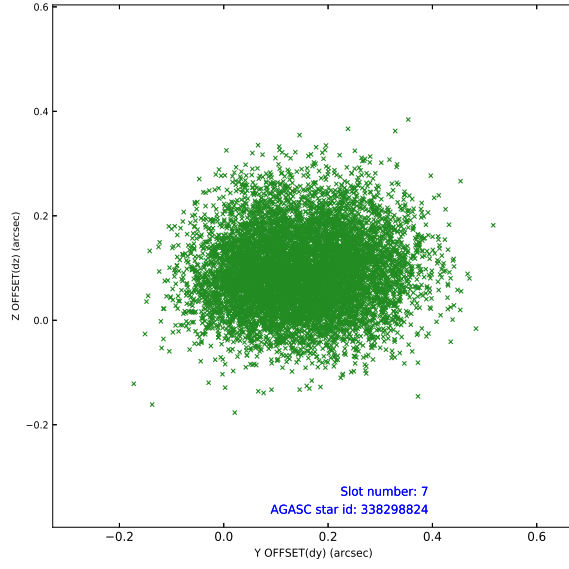
2.4.3 Slot 5



2.4.4 Slot 6

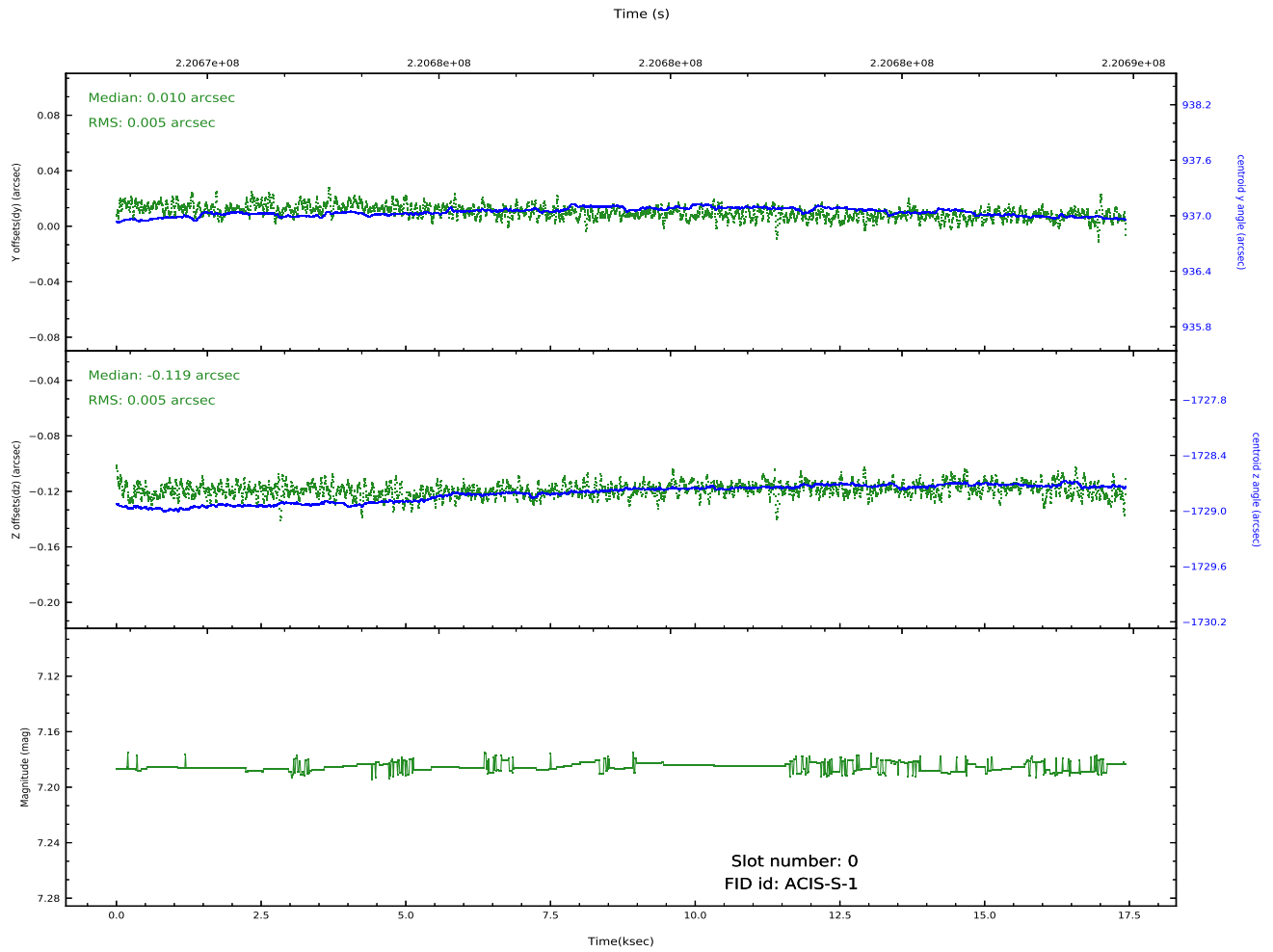
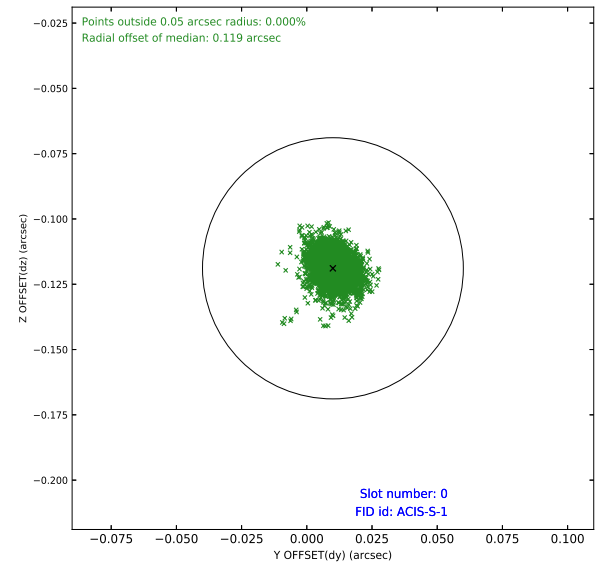
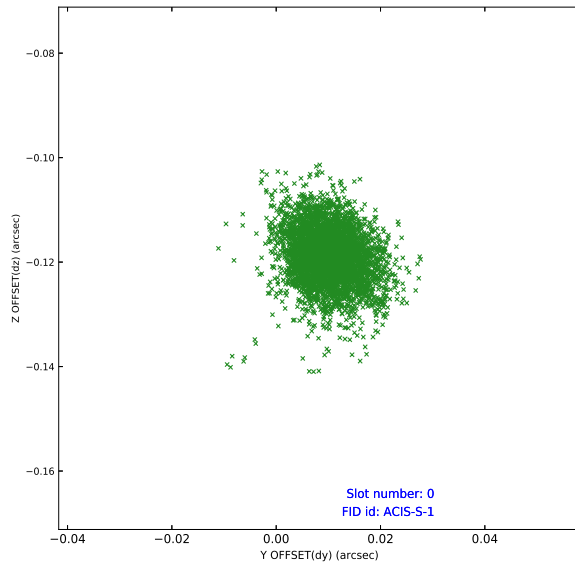


2.4.5 Slot 7

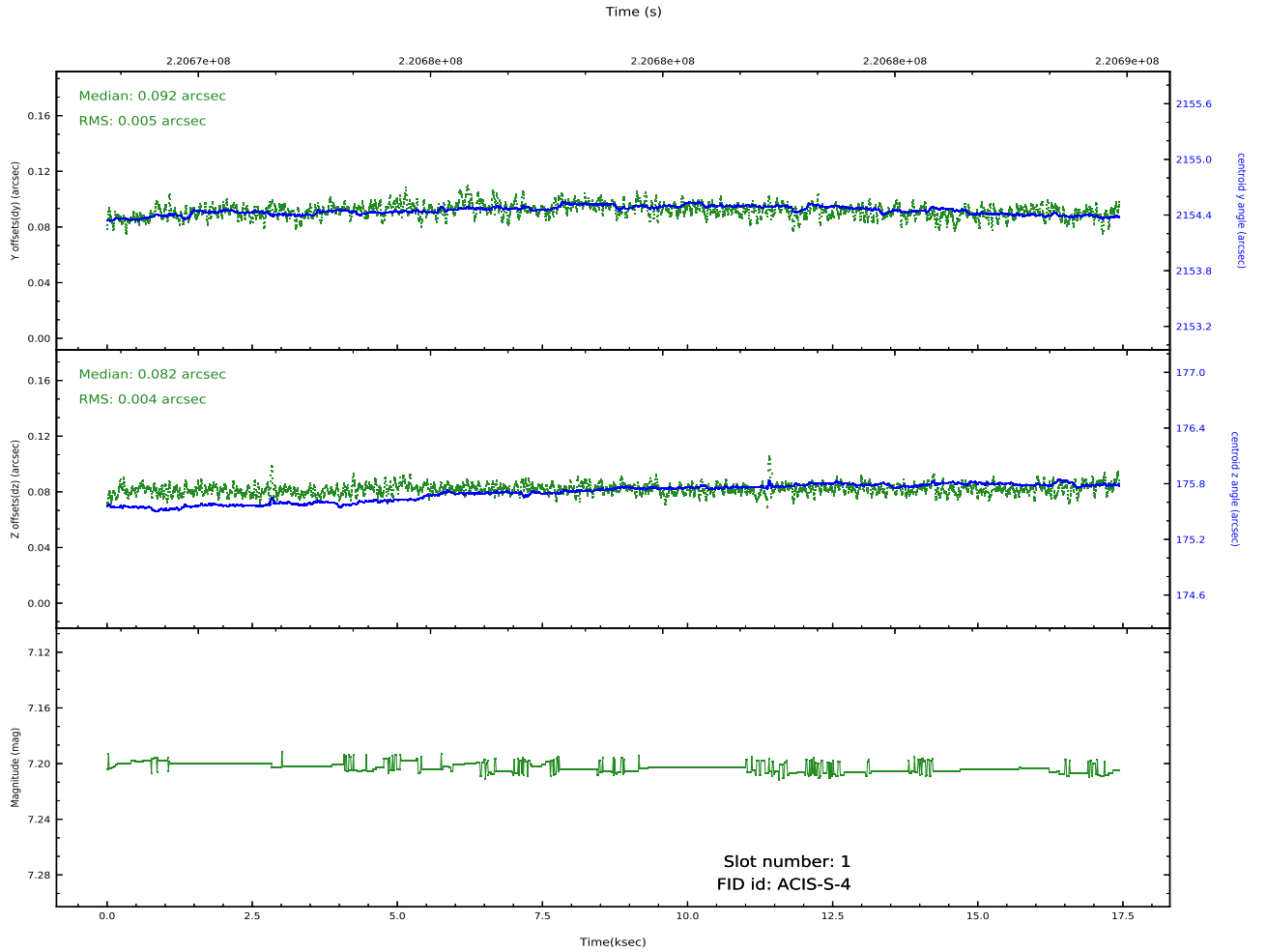
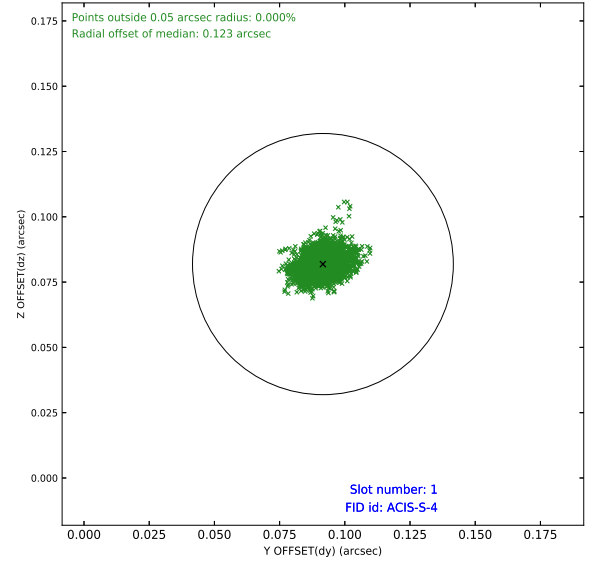
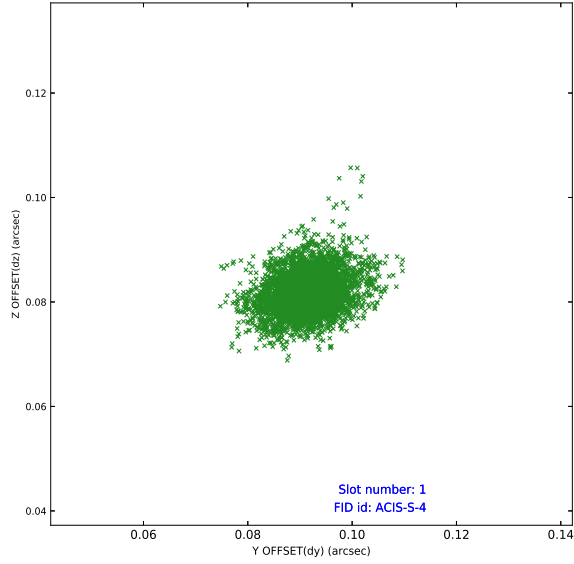


2.5 FID Slots

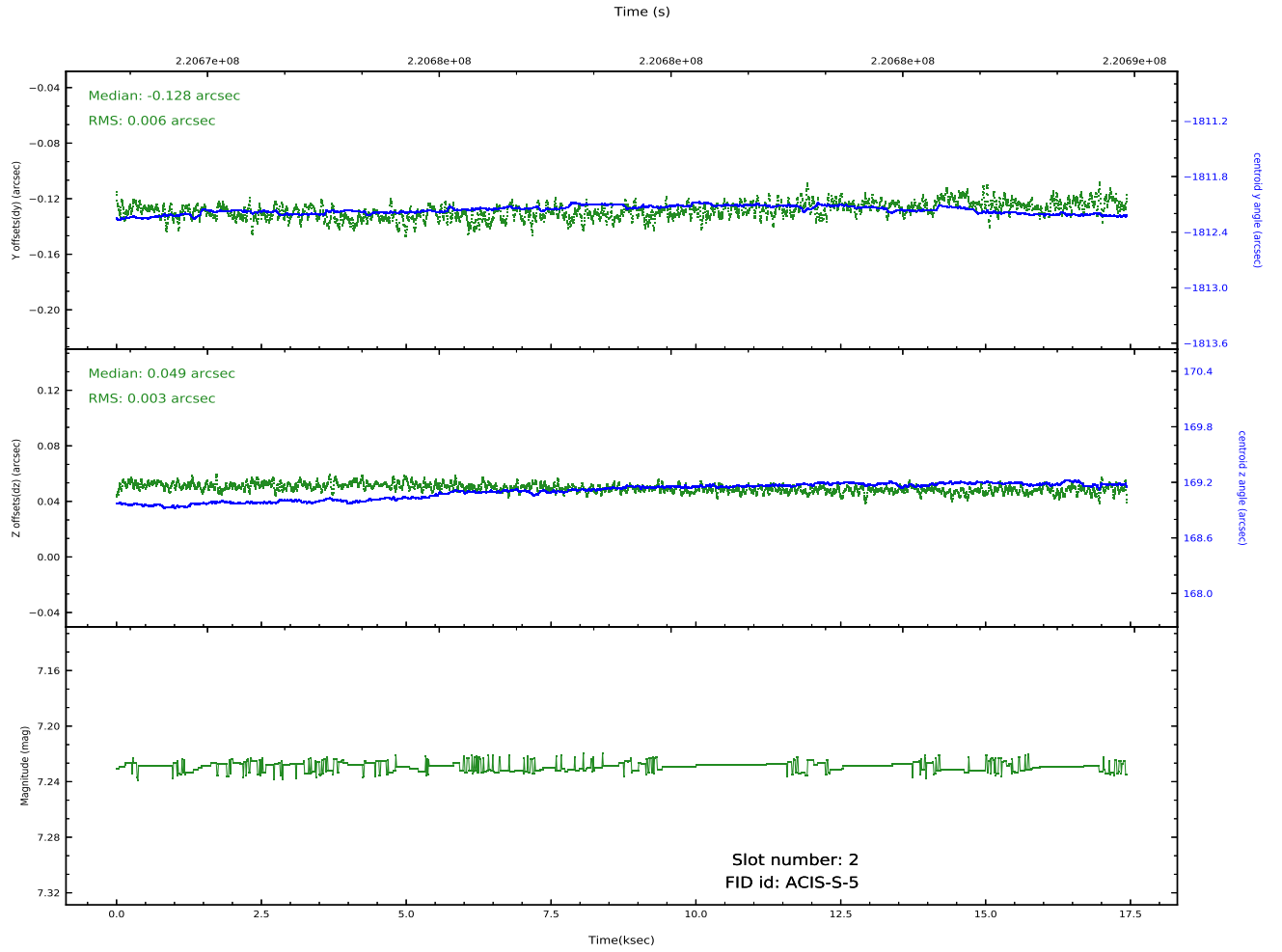
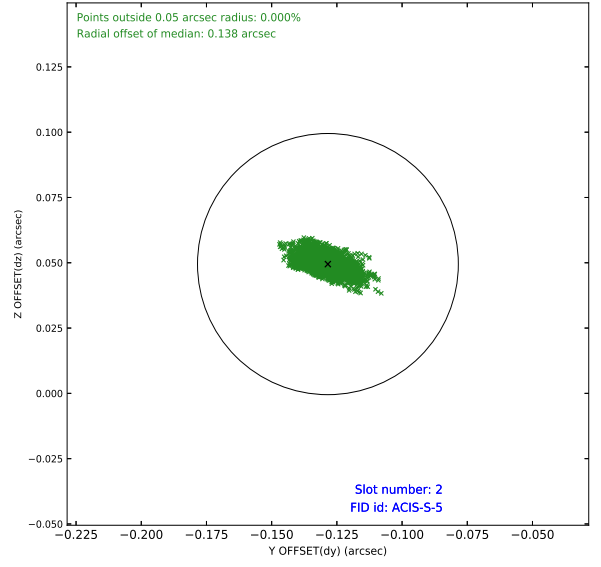
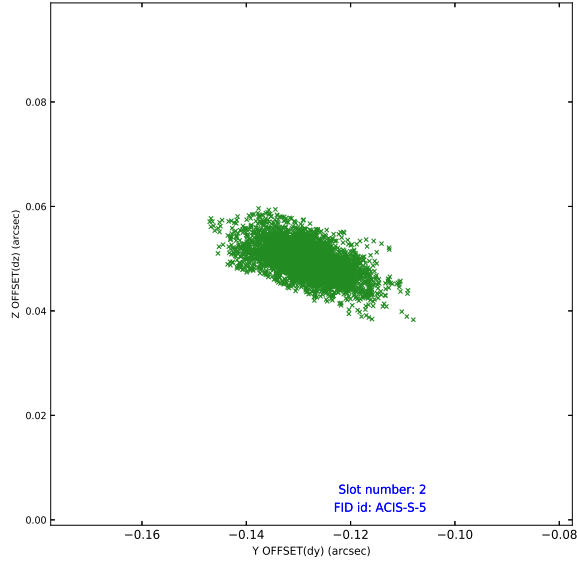
2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.43359

A.2 Comments