

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7235 - L2 Version 3
Chandra X-Ray Center

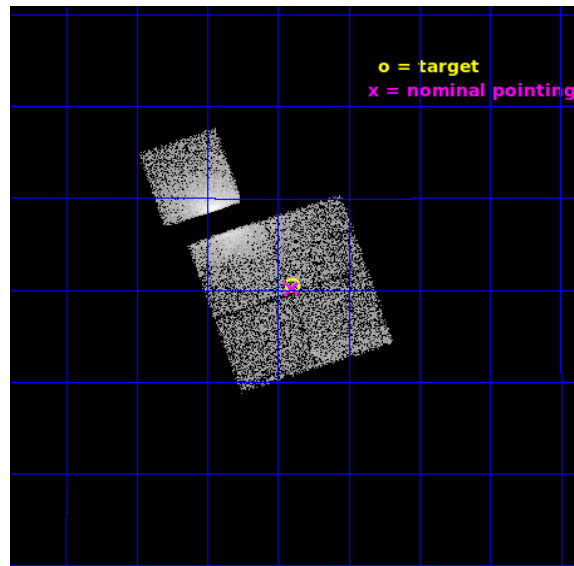
L2 Processing Date : Oct 11 2020

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1 Front

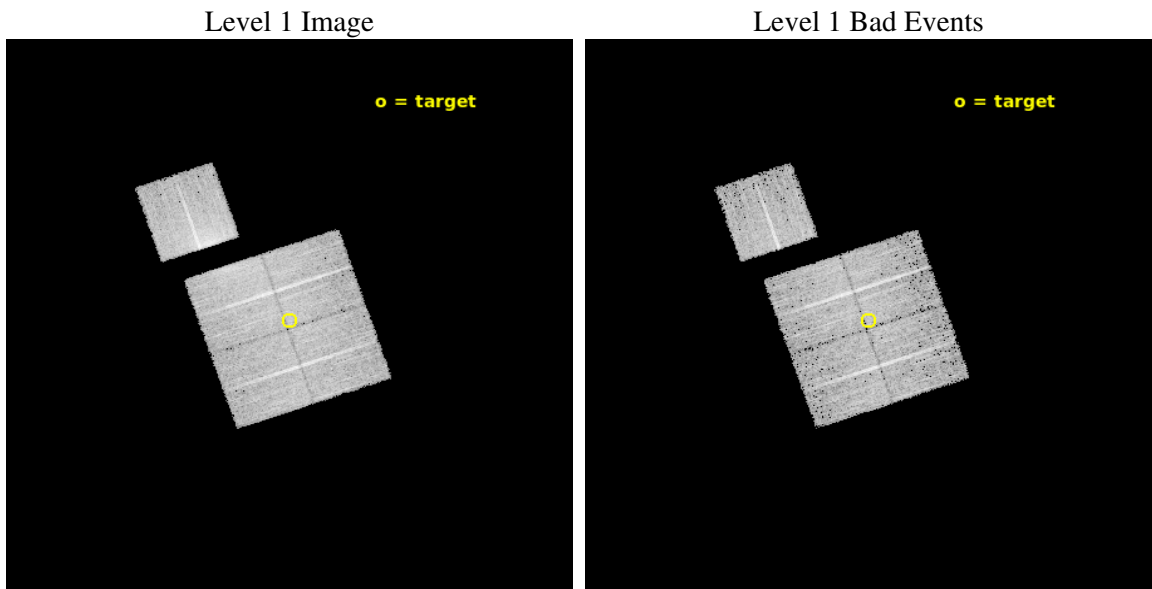
seq_num	800562	Sequence number
obs_id	7235	Observation id
title	Temperature profiles of relaxed galaxy clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A478	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.225	Observer's specified target RA [deg]
dec_targ	10.341667	Observer's specified target Dec [deg]
ra_nom	63.225367018445	Nominal RA [deg]
dec_nom	10.33606189683	Nominal Dec [deg]
roll_nom	341.10690467769	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7136.1999862492	Sum of GTIs [s]
livetime	7042.9602798349	Livetime [s]
ontime0	7133.0589960814	Sum of GTIs [s]
ontime1	7136.1999862492	Sum of GTIs [s]
ontime2	7133.0589960515	Sum of GTIs [s]
ontime3	7136.1999862492	Sum of GTIs [s]
ontime6	7133.0589860678	Sum of GTIs [s]
l2events	34444	Number of level 2 events



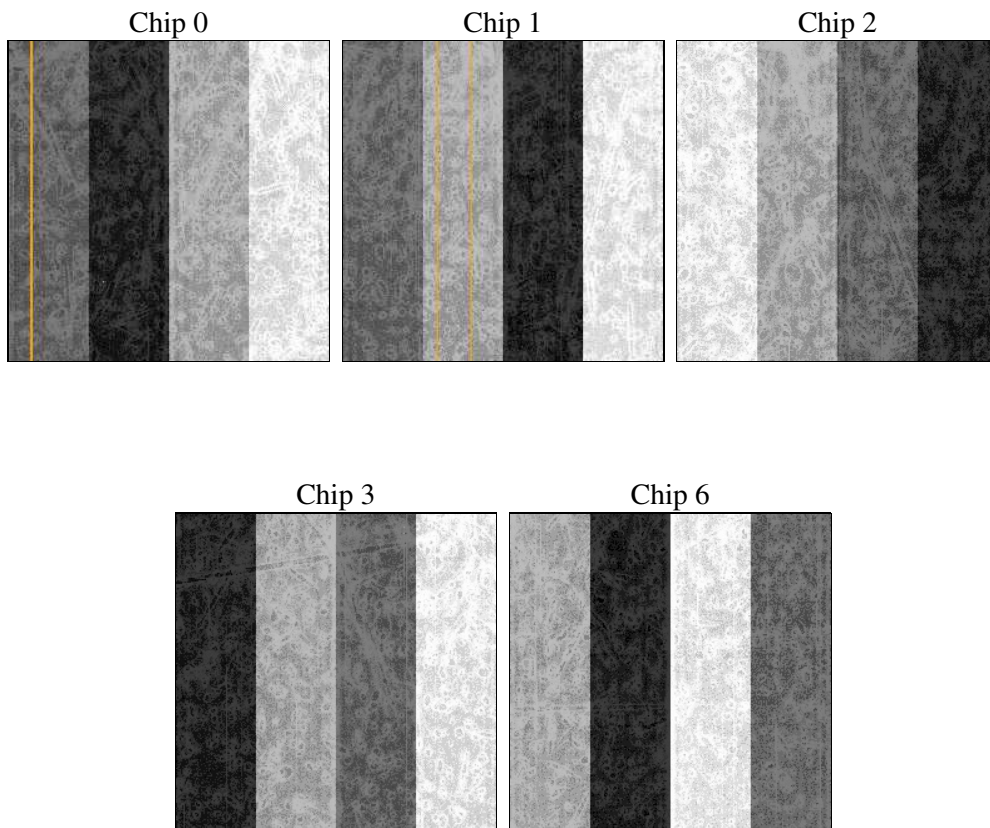
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	7136.1999862492	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	7133.0589960814	Sum of GTIs [s]
date	2020-10-11T17:46:59	Date and time of file creation	ontime1	7136.1999862492	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7133.0589960515	Sum of GTIs [s]
			ontime3	7136.1999862492	Sum of GTIs [s]
			ontime6	7133.0589860678	Sum of GTIs [s]
			l1events	280719	Number of level 1 events

2.1.4 Events

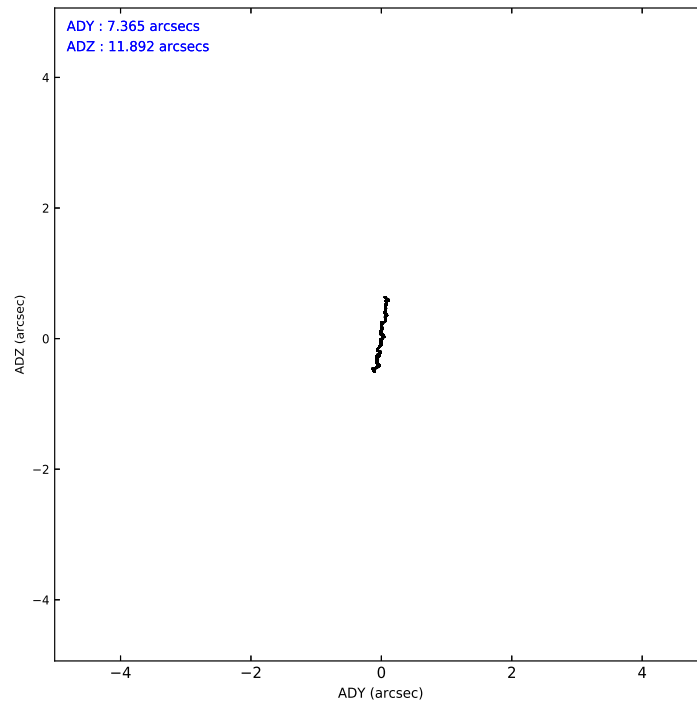
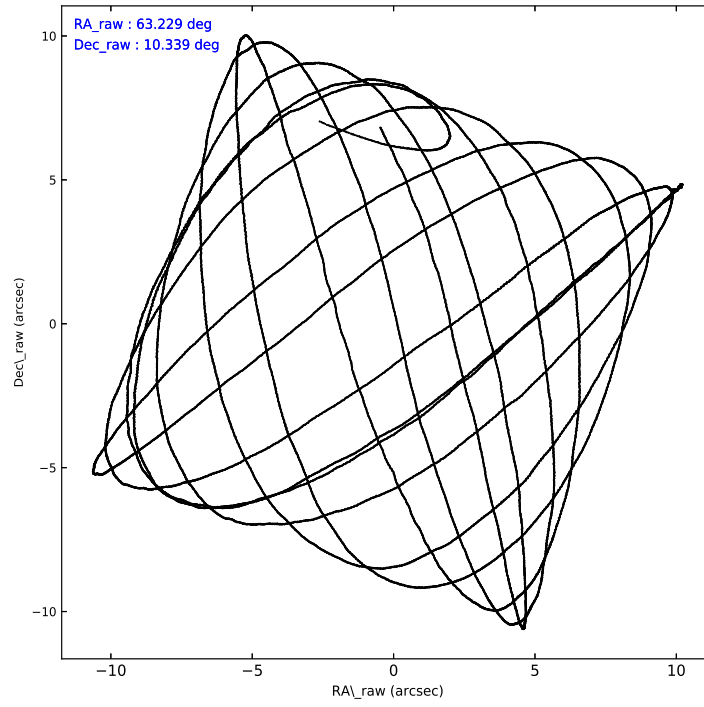
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	51036	50888	61549	54199	63047
rejected events	46191	45426	51536	49057	48933
rejected %	90%	89%	83%	90%	77%

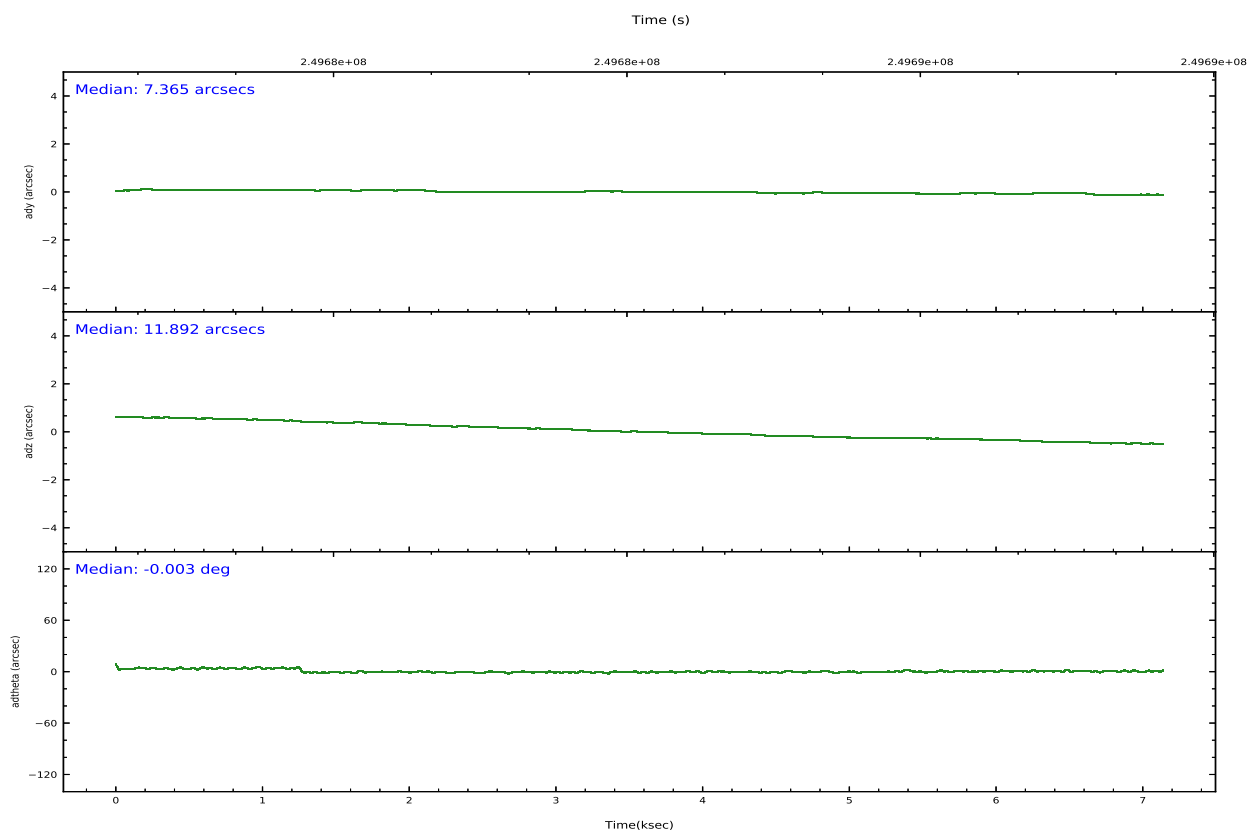
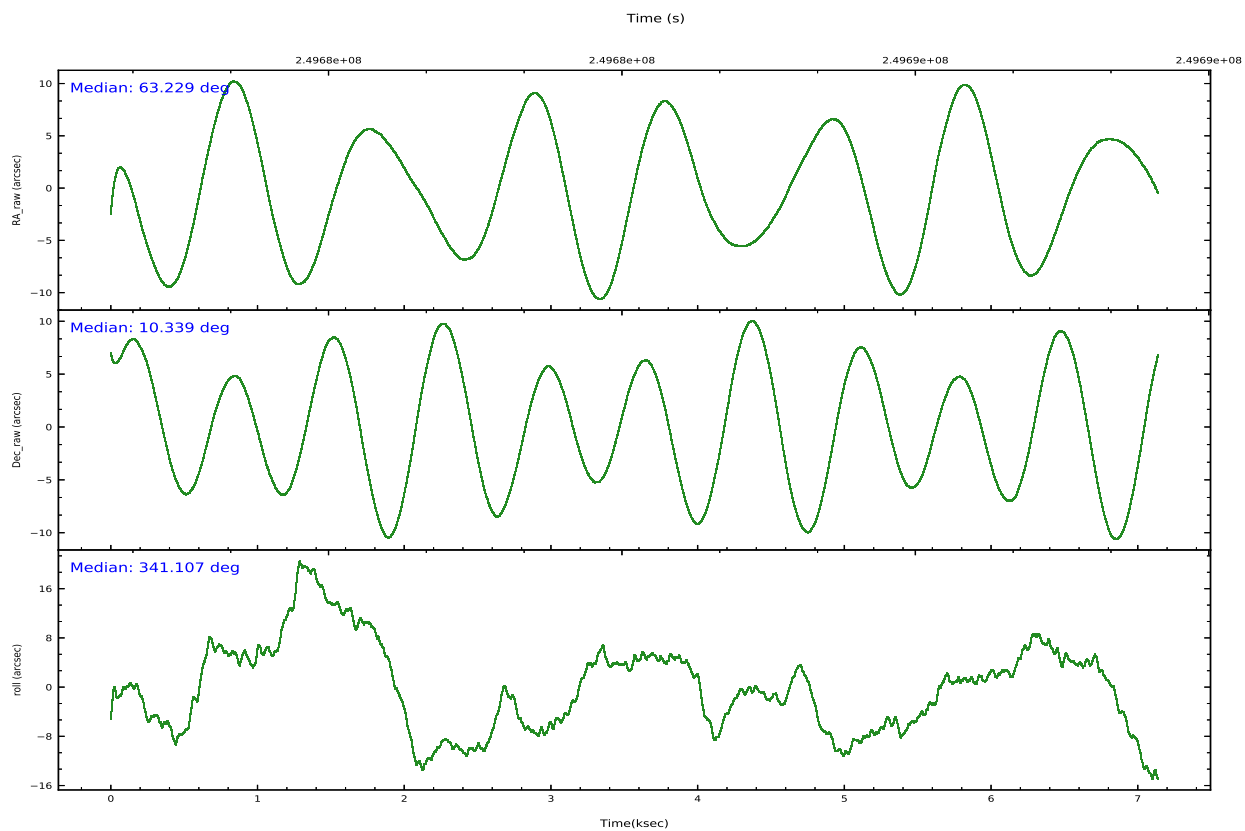
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1915	2270	6202	2322	9588
	3%	4%	10%	4%	15%
grade 1 events	36	26	45	31	56
	0%	0%	0%	0%	0%
grade 2 events	1208	1351	1752	1125	2197
	2%	2%	2%	2%	3%
grade 3 events	606	678	778	609	960
	1%	1%	1%	1%	1%
grade 4 events	596	677	781	570	912
	1%	1%	1%	1%	1%
grade 5 events	1832	1971	1726	2176	2175
	3%	3%	2%	4%	3%
grade 6 events	1048	1148	1159	1023	1402
	2%	2%	1%	1%	2%
grade 7 events	43795	42767	49106	46343	45757
	85%	84%	79%	85%	72%

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	63.201219	63.225367018445	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.333193	10.33606189683	Alternating exposures requested	N	N
[deg] Pointing Roll	340.904268	341.10690467769	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	249680656.184000	249679280.16225			
Observation start date	2005-11-29T19:43:12	2005-11-29T19:21:20			
[s] Observation end time (MET)	249687656.184000	249688790.11269			
Observation end date	2005-11-29T21:39:52	2005-11-29T21:59:50			
Read mode	TIMED	TIMED			

2.3 Aspect



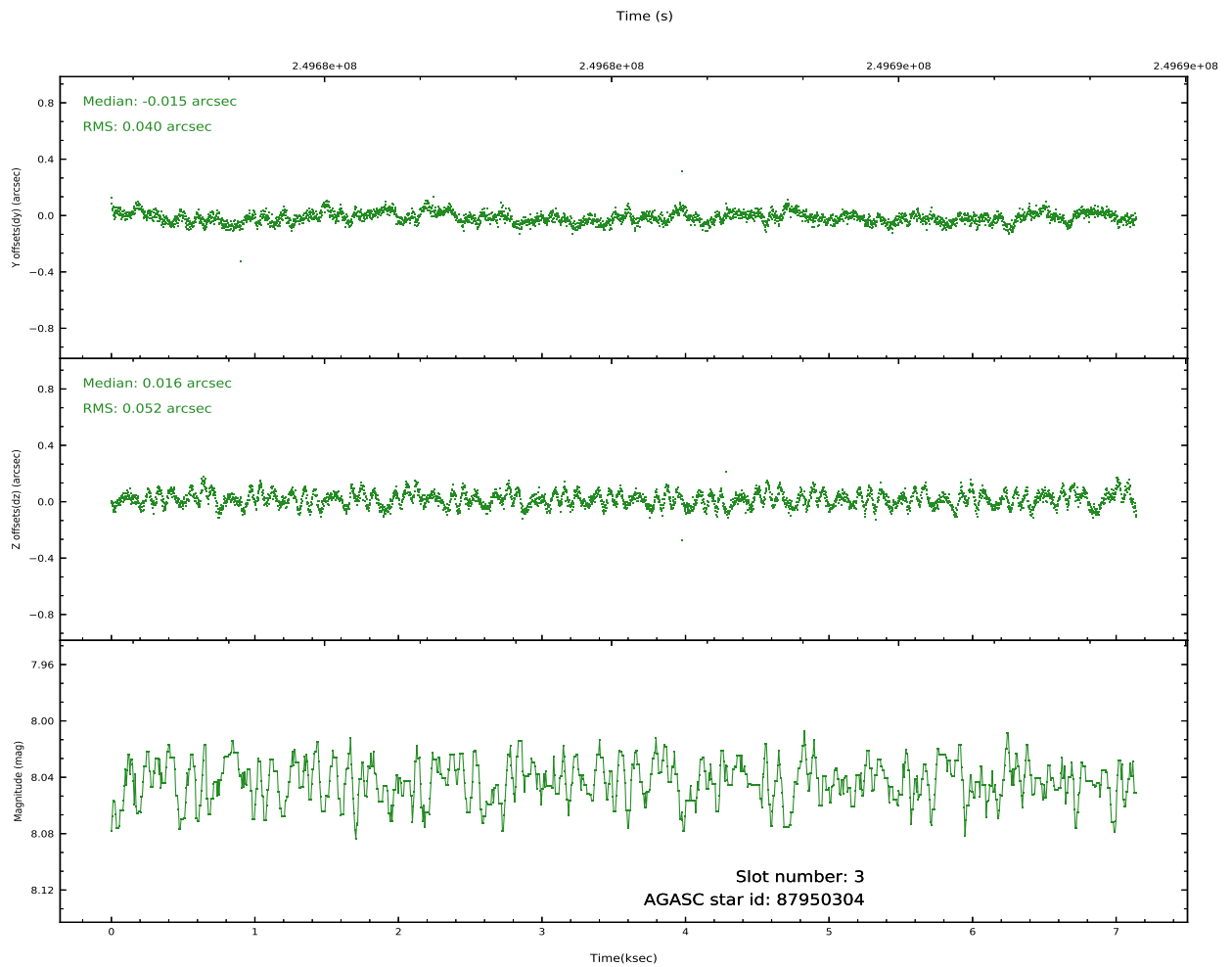
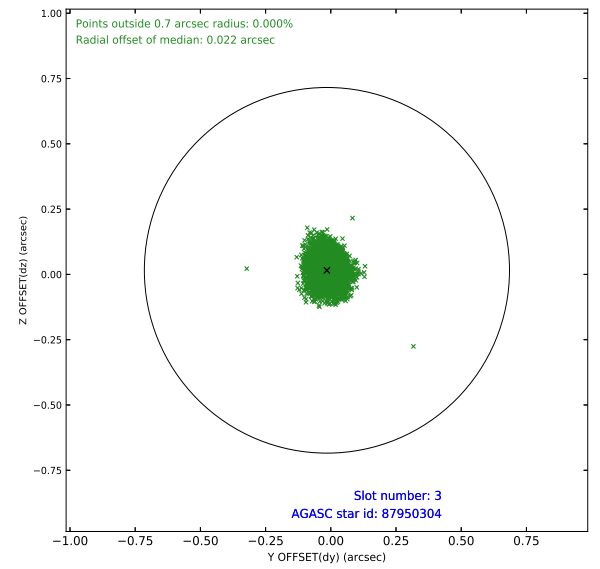
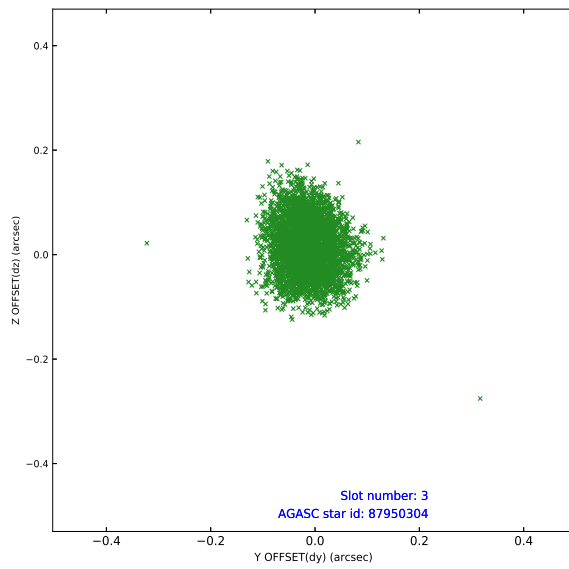


Slot Statistics

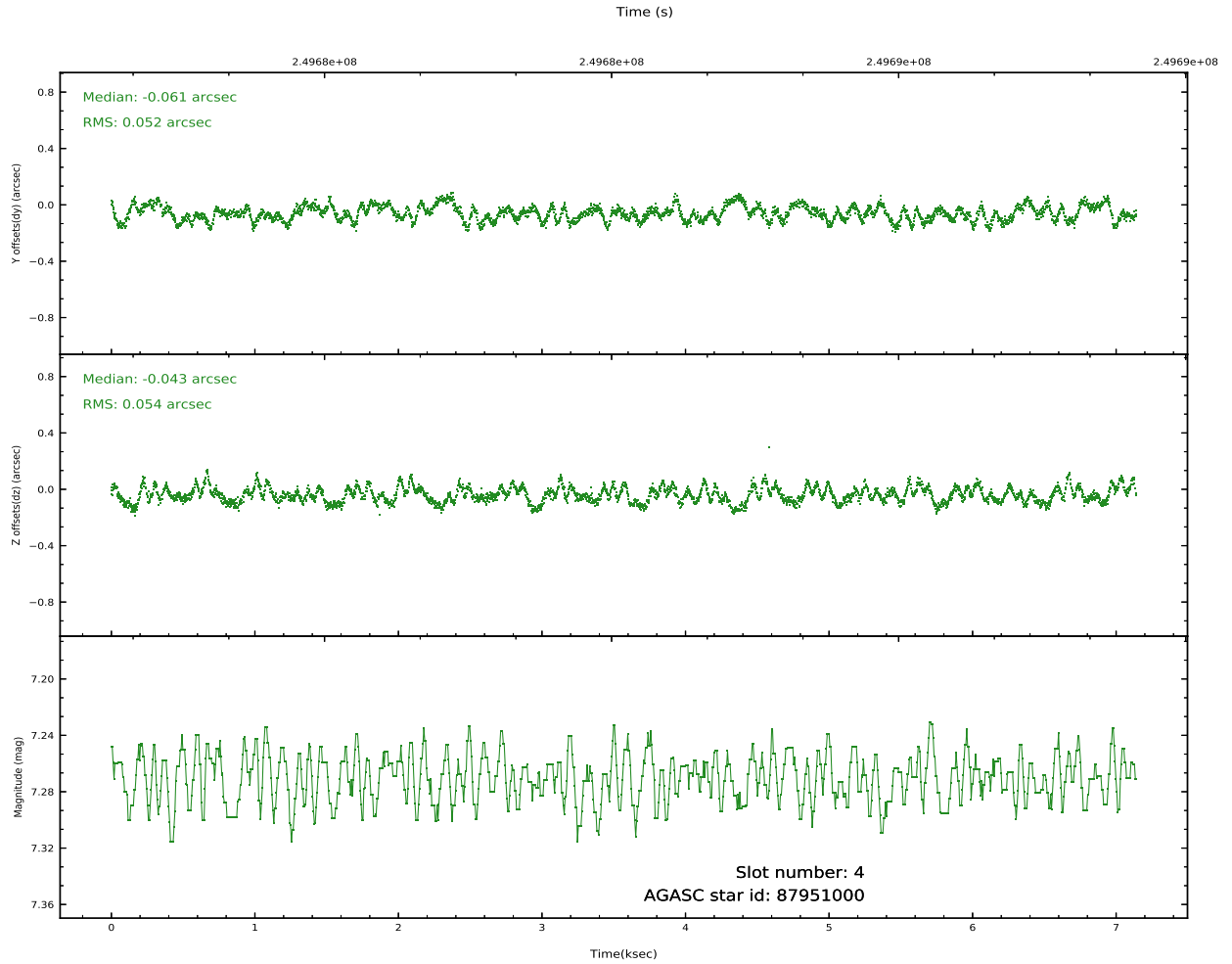
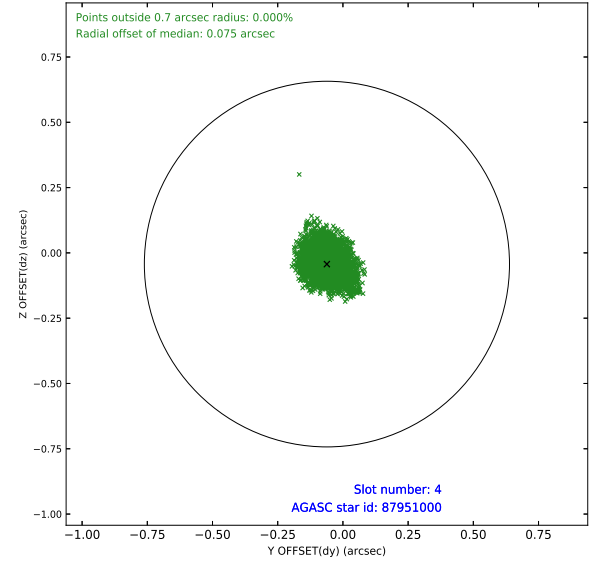
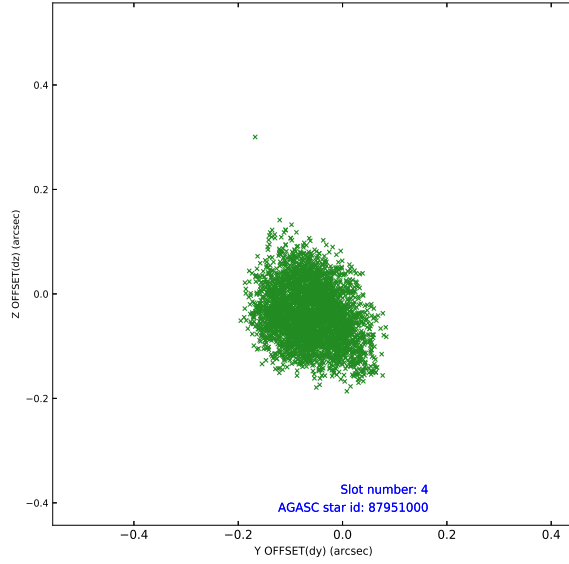
	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		ACIS-I-2	7.14	1742	1.000	-0.121	-0.152	0.013	0.028	0.000000	0.000000	-761.98	-8
	FID		ACIS-I-4	7.18	1742	1.000	0.212	0.110	0.010	0.018	0.000000	0.000000	2152.03	10
	FID		ACIS-I-5	7.22	1742	1.000	-0.192	0.110	0.012	0.027	0.000000	0.000000	-1814.86	10
	GUIDE	used	87950304	8.04	3484	1.000	-0.015	0.016	0.070	0.109	63.753878	10.748130	1357.88	20
	GUIDE	used	87951000	7.27	3484	1.000	-0.061	-0.043	0.081	0.124	63.643091	10.701386	1044.11	17
	GUIDE	used	87953912	6.67	3484	1.000	0.014	0.109	0.095	0.149	63.394036	10.212467	788.29	-1
	GUIDE	used	87954016	9.27	3480	1.000	0.034	0.120	0.080	0.131	63.197646	10.607026	-333.90	9
	BAD	used	87955344	10.56	3192	1.000	0.034	-0.212	0.212	0.346	63.321713	10.049181	738.98	-8

2.4 Star Slots

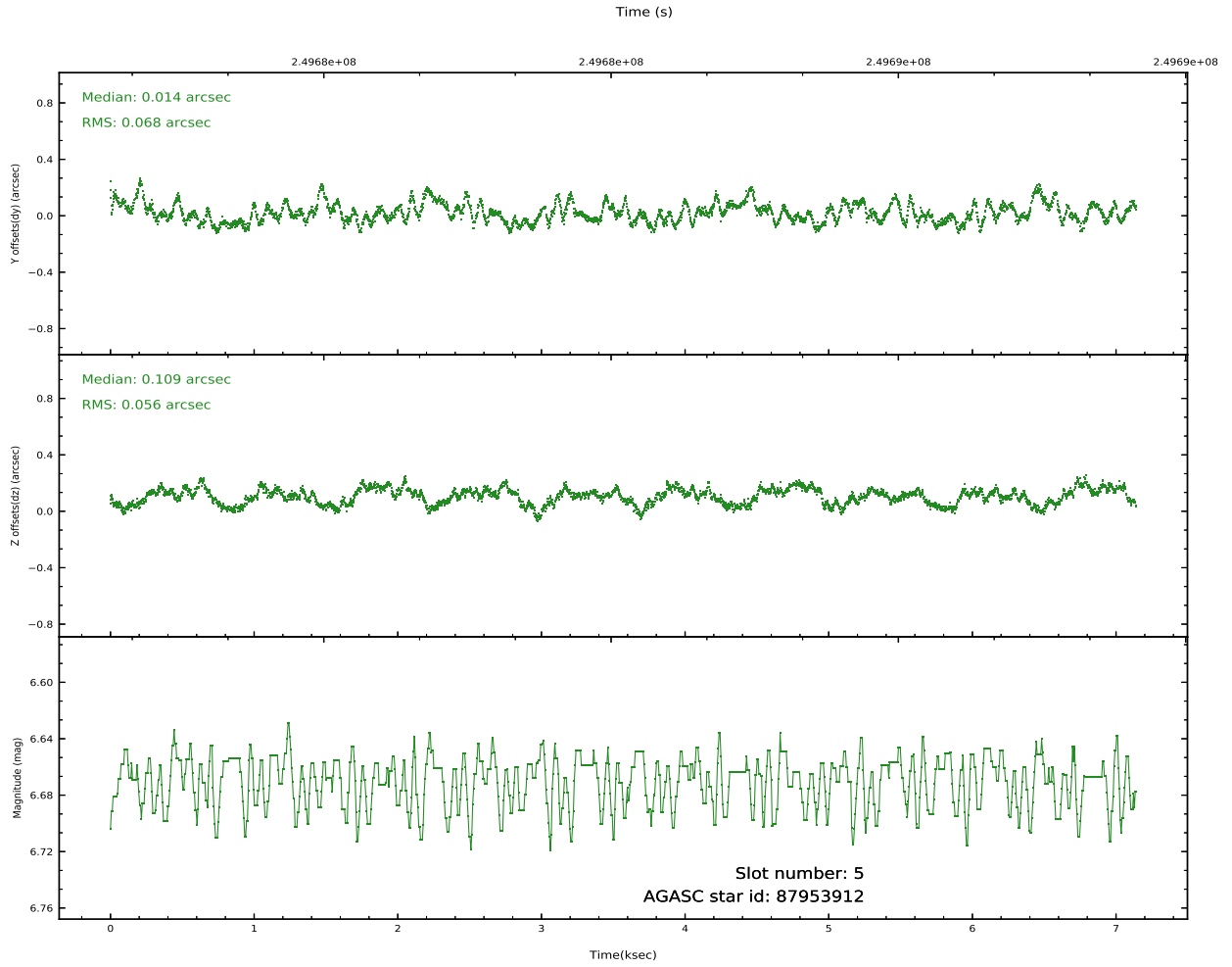
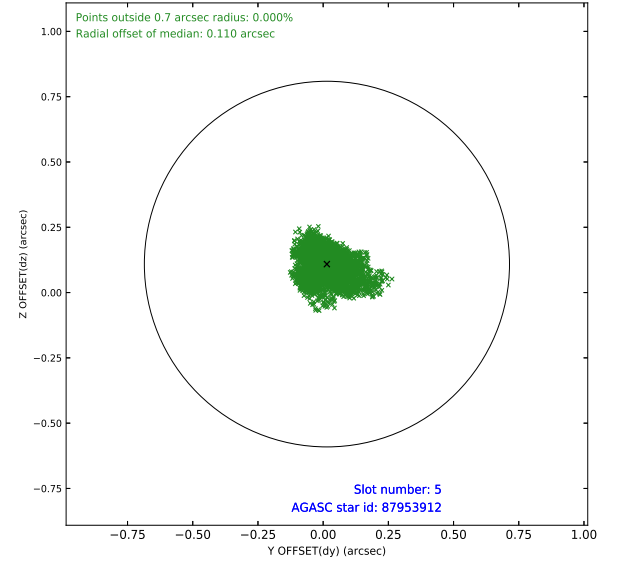
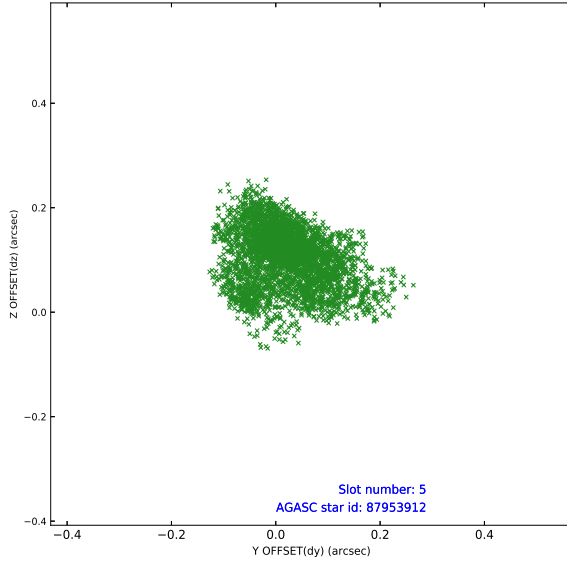
2.4.1 Slot 3



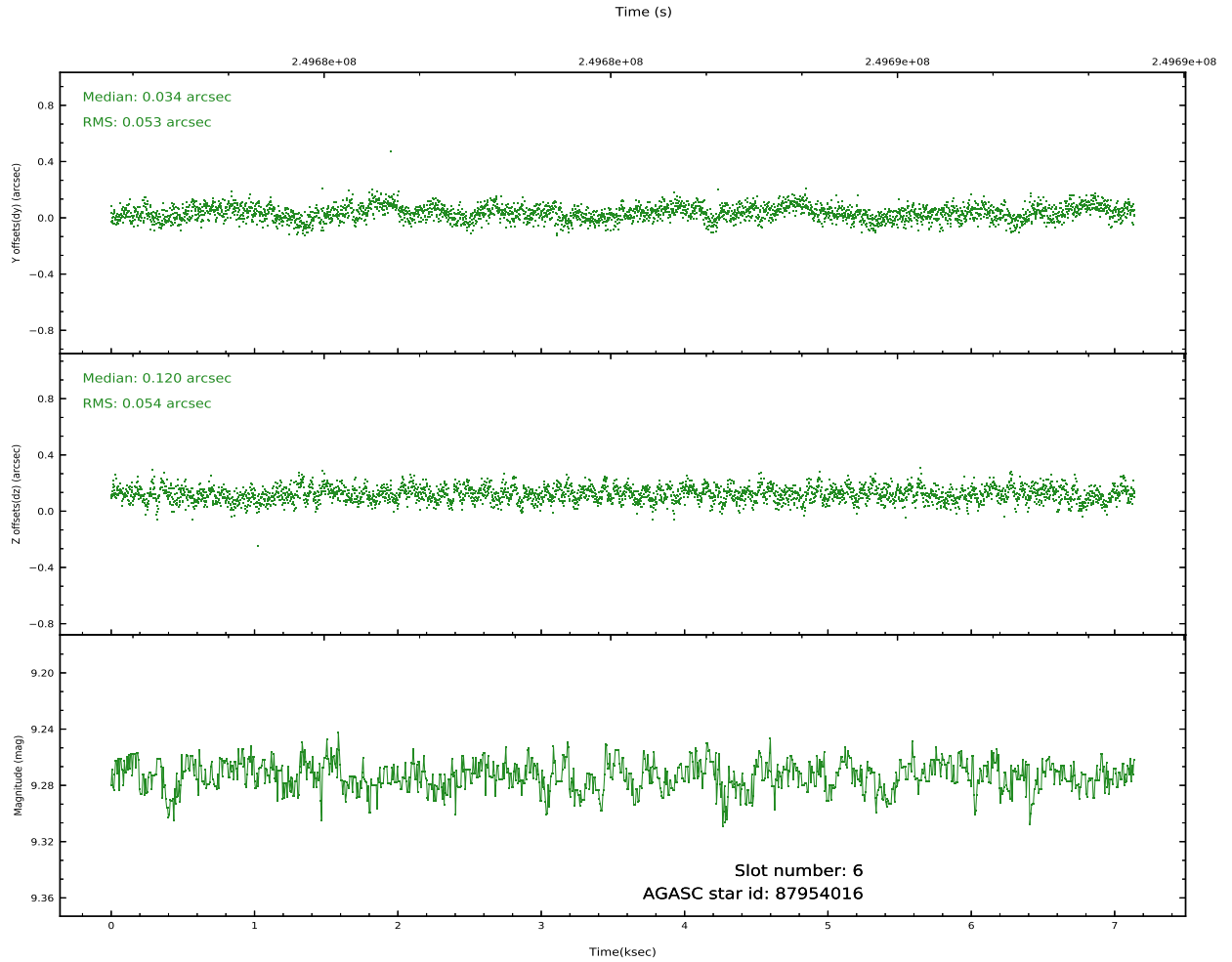
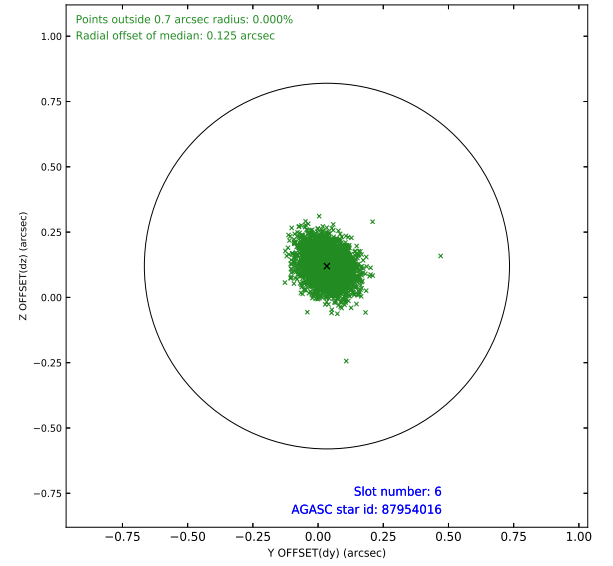
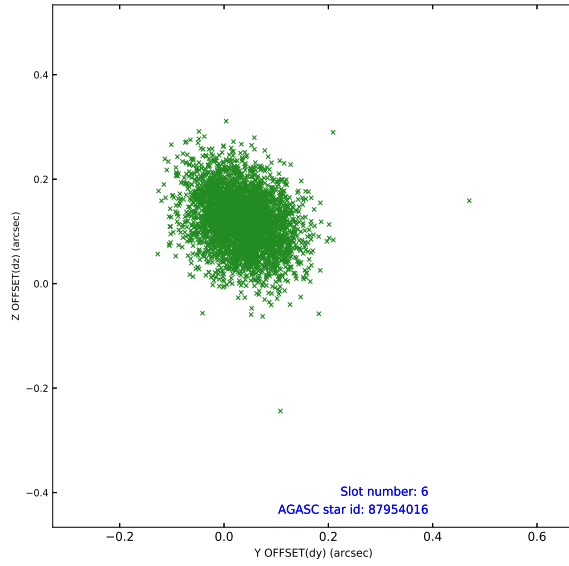
2.4.2 Slot 4



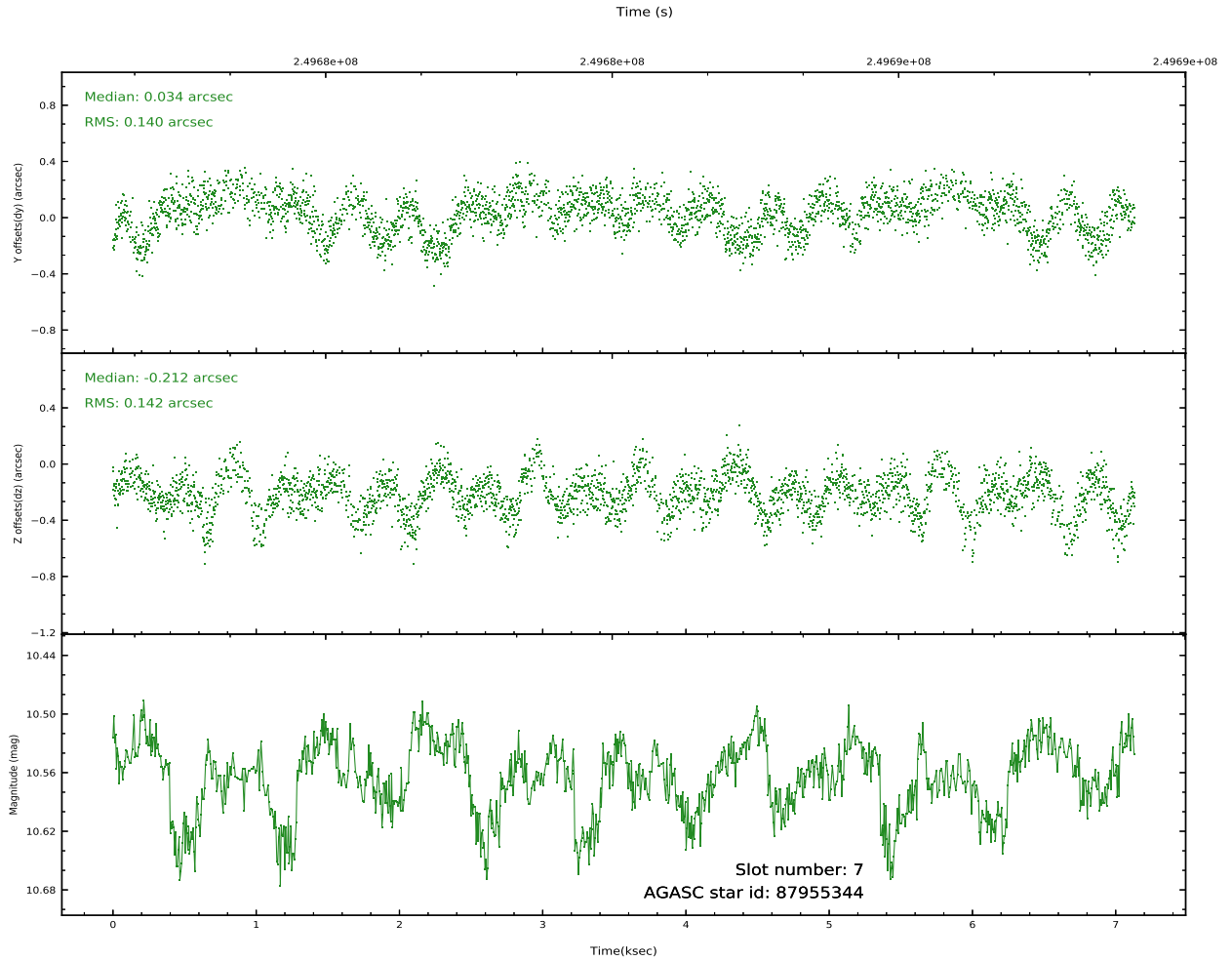
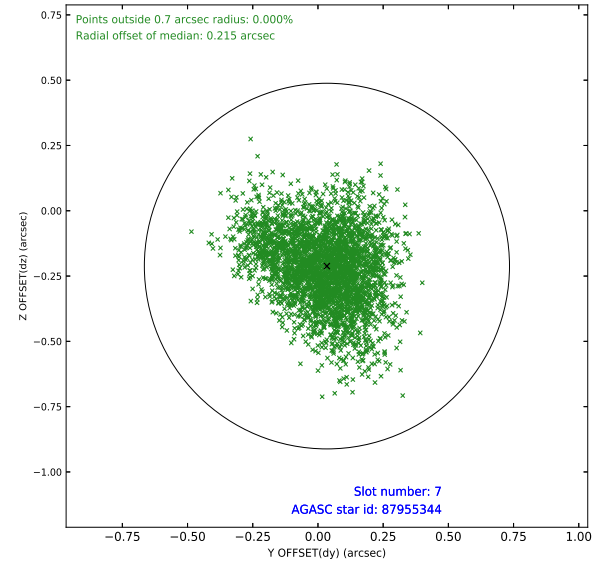
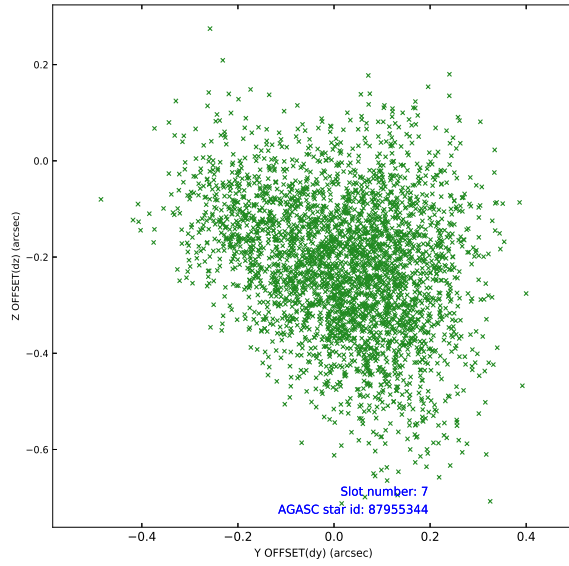
2.4.3 Slot 5



2.4.4 Slot 6

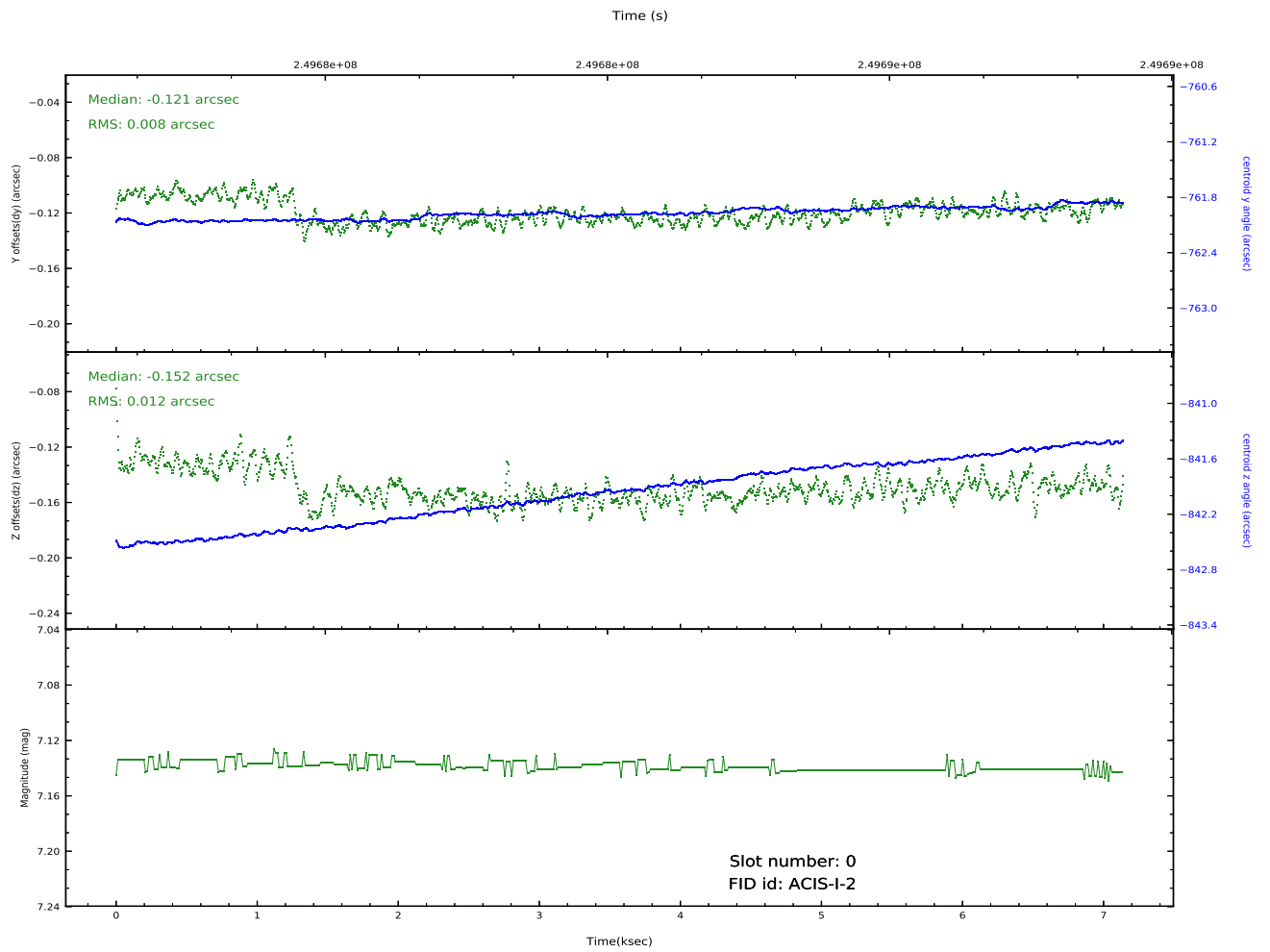
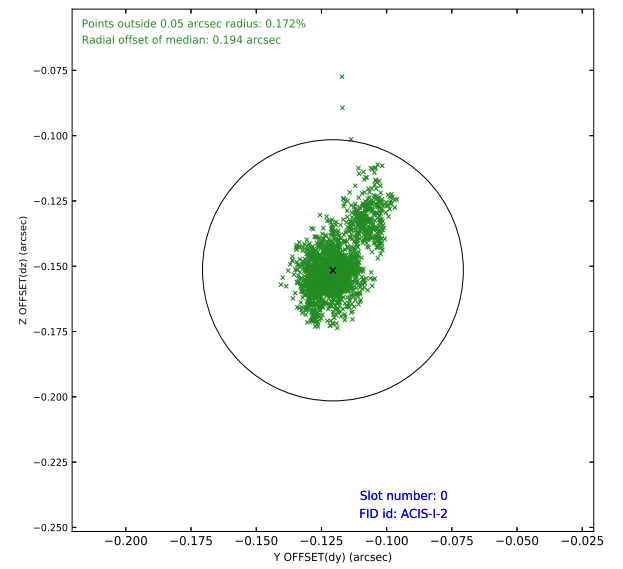
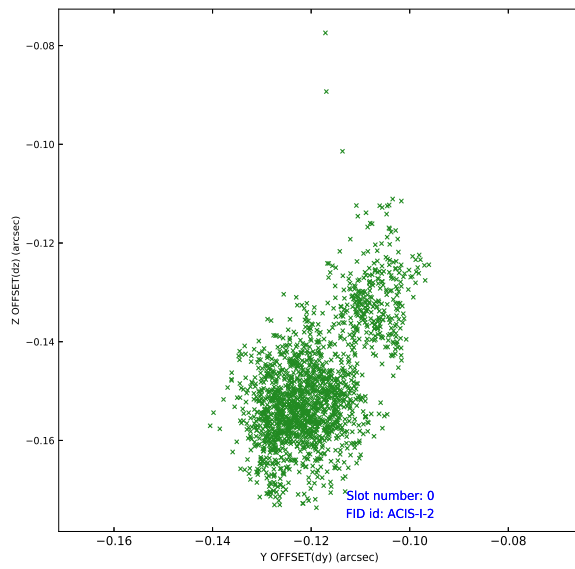


2.4.5 Slot 7

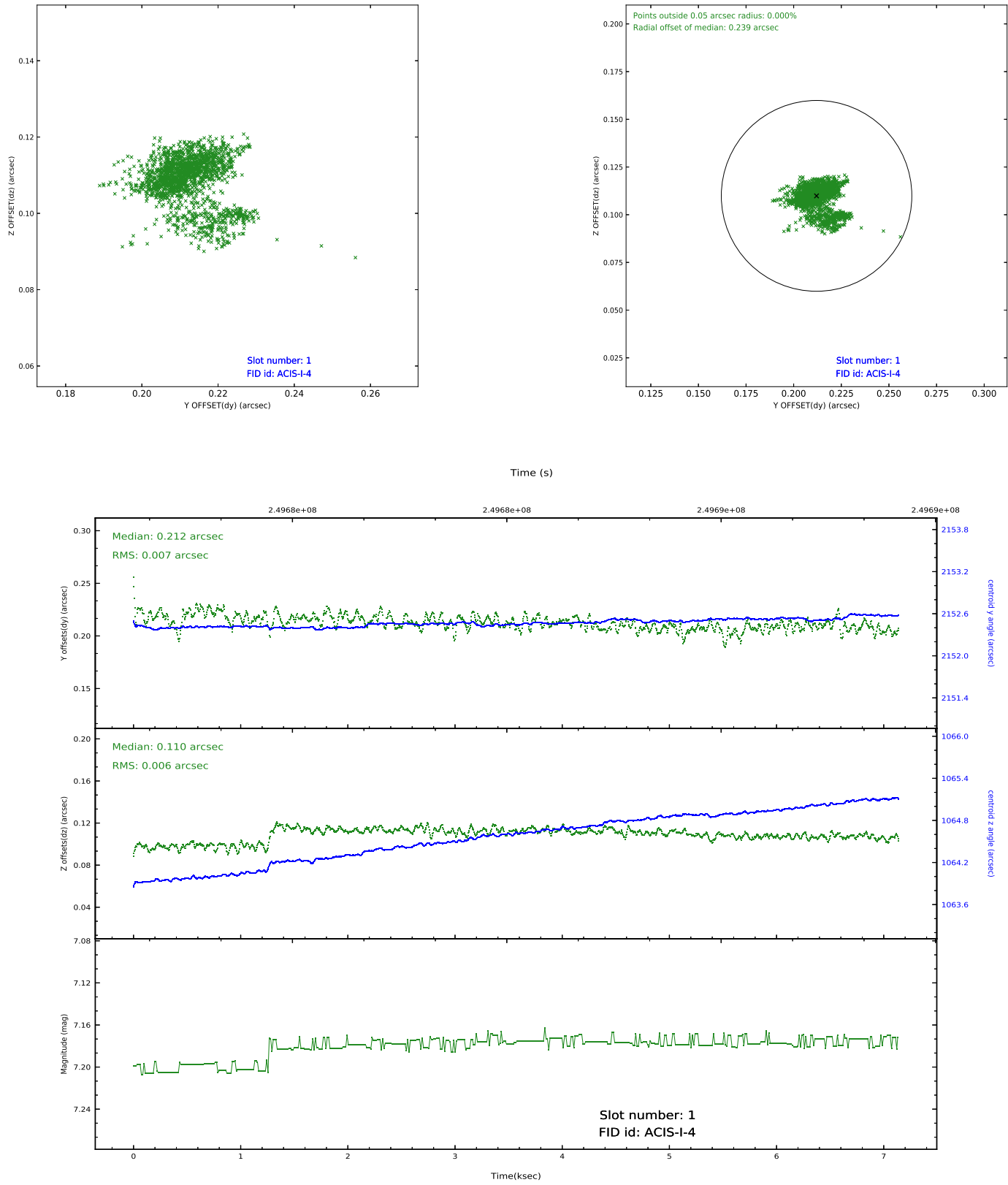


2.5 FID Slots

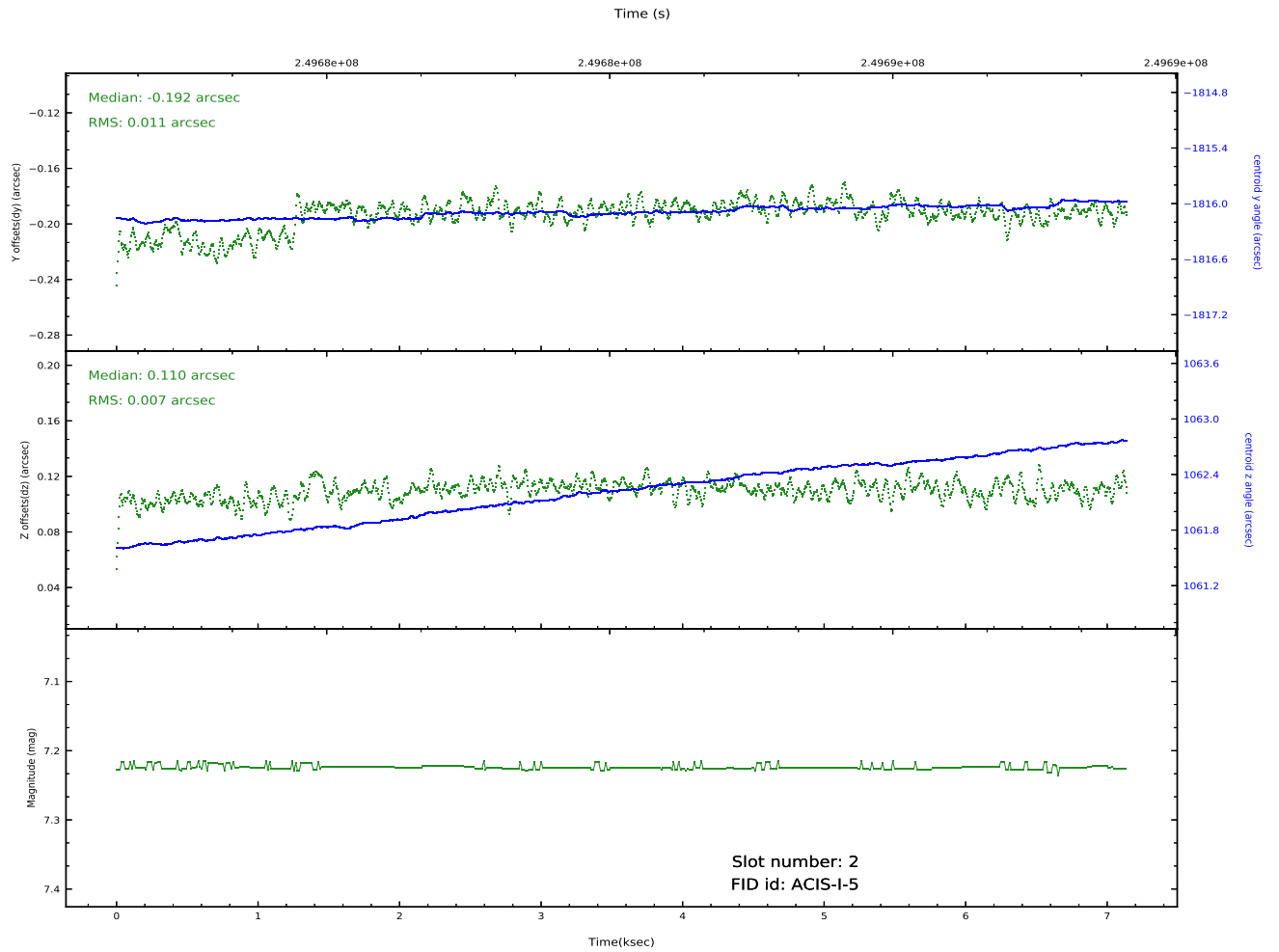
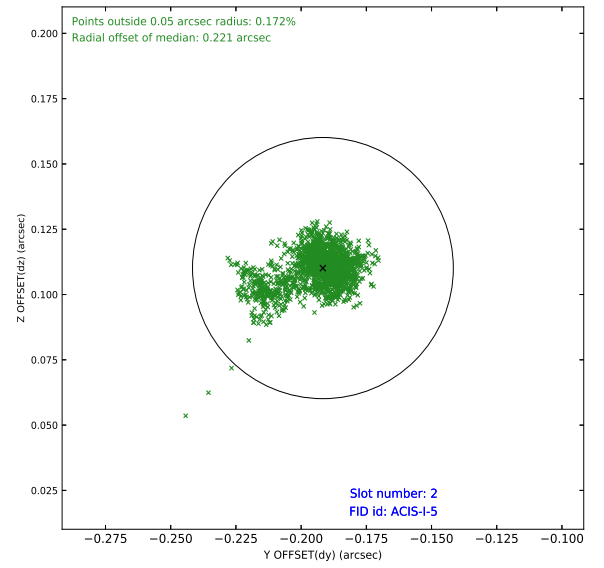
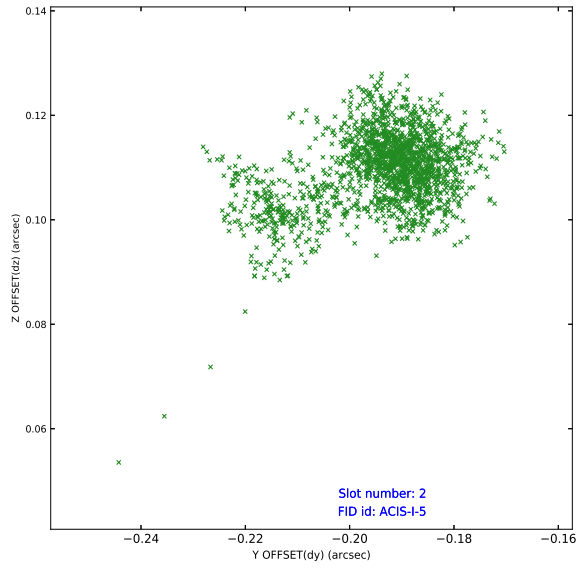
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.136199

A.2 Comments