

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7232 - L2 Version 3
Chandra X-Ray Center

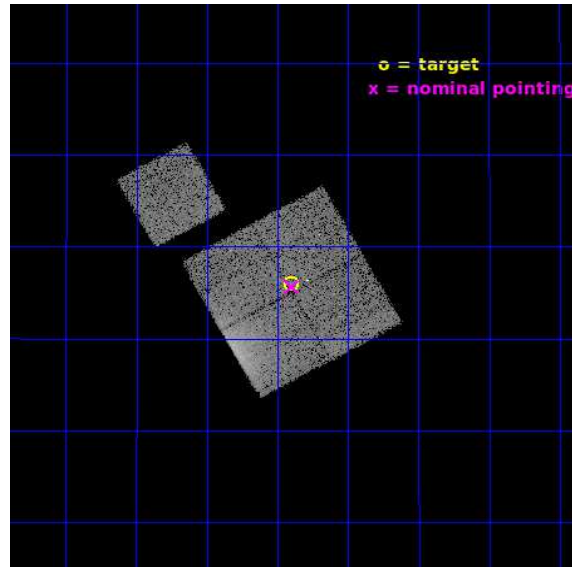
L2 Processing Date : Oct 11 2020

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1 Front

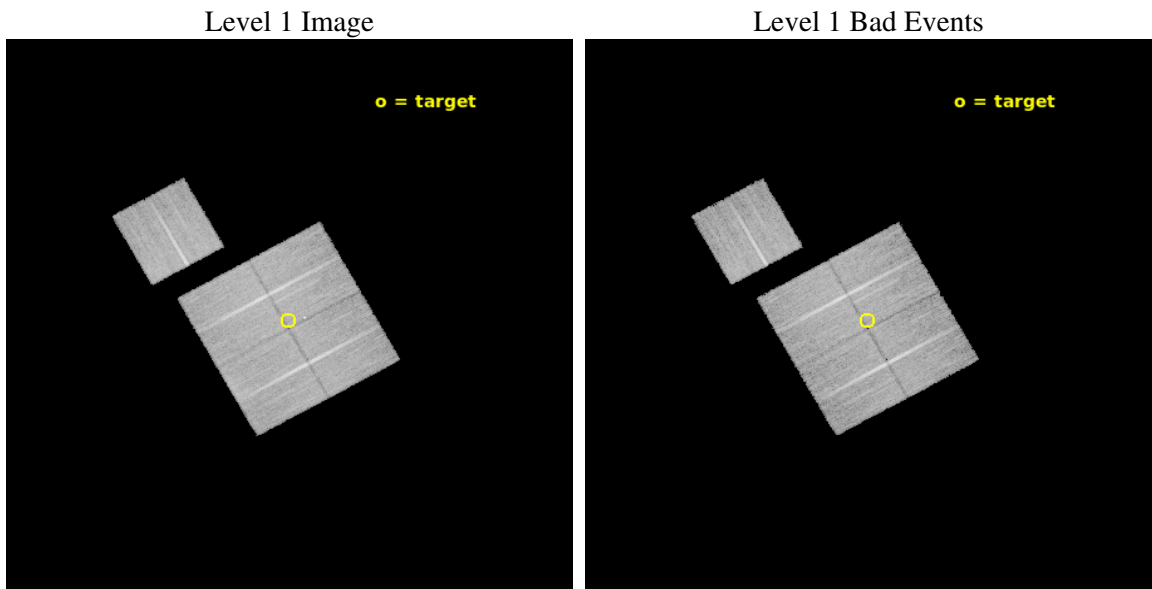
seq_num	800561	Sequence number
obs_id	7232	Observation id
title	Temperature profiles of relaxed galaxy clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A478	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.225	Observer's specified target RA [deg]
dec_targ	10.6	Observer's specified target Dec [deg]
ra_nom	63.22442170325	Nominal RA [deg]
dec_nom	10.594480554145	Nominal Dec [deg]
roll_nom	330.80617195009	Nominal Roll [deg]
revision	3	Processing version of data
ontime	16129.258948863	Sum of GTIs [s]
livetime	15918.518306508	Livetime [s]
ontime0	16132.399968952	Sum of GTIs [s]
ontime1	16132.399968952	Sum of GTIs [s]
ontime2	16129.258968771	Sum of GTIs [s]
ontime3	16129.258948863	Sum of GTIs [s]
ontime6	16129.258988708	Sum of GTIs [s]
l2events	56977	Number of level 2 events



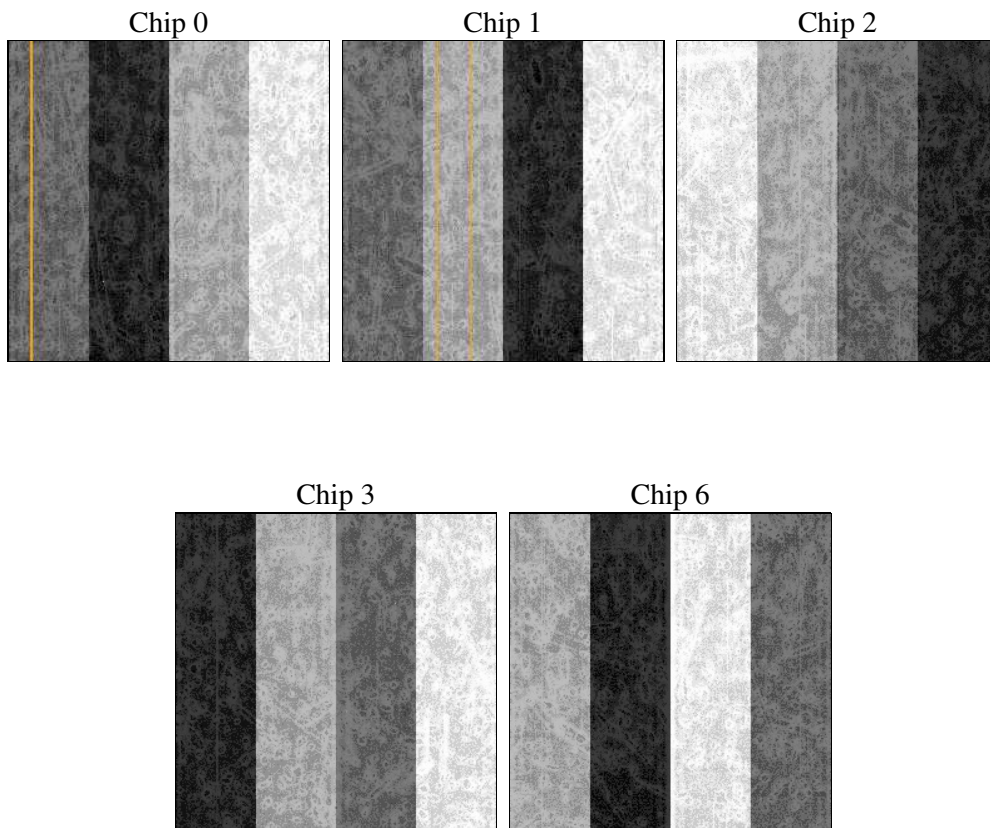
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	16129.258948863	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	16132.399968952	Sum of GTIs [s]
date	2020-10-12T03:24:29	Date and time of file creation	ontime1	16132.399968952	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	16129.258968771	Sum of GTIs [s]
			ontime3	16129.258948863	Sum of GTIs [s]
			ontime6	16129.258988708	Sum of GTIs [s]
			l1events	570075	Number of level 1 events

2.1.4 Events

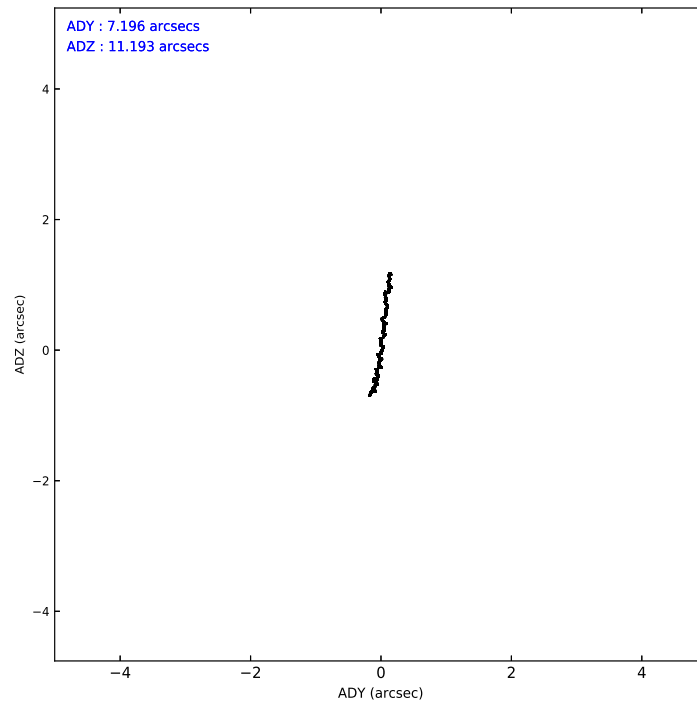
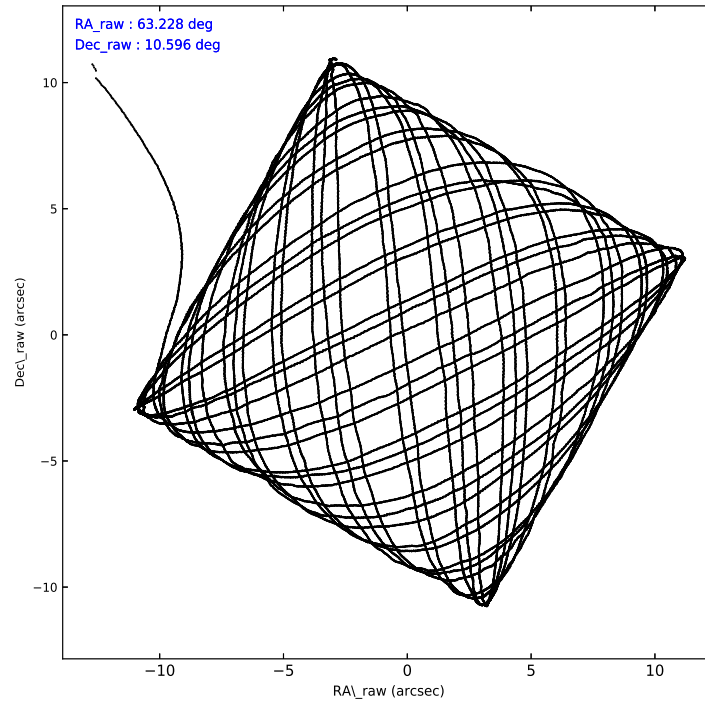
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	114707	104314	123563	114340	113151
rejected events	94152	92385	110610	103548	102217
rejected %	82%	88%	89%	90%	90%

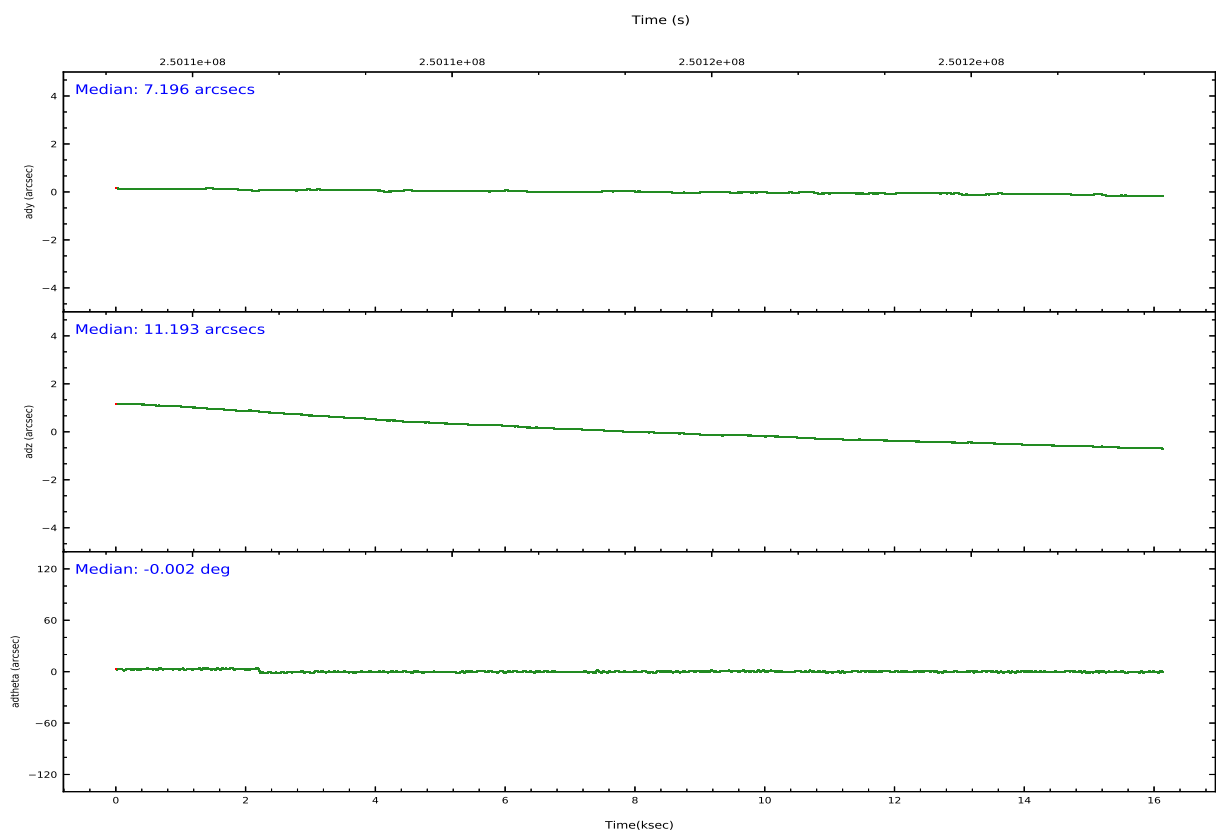
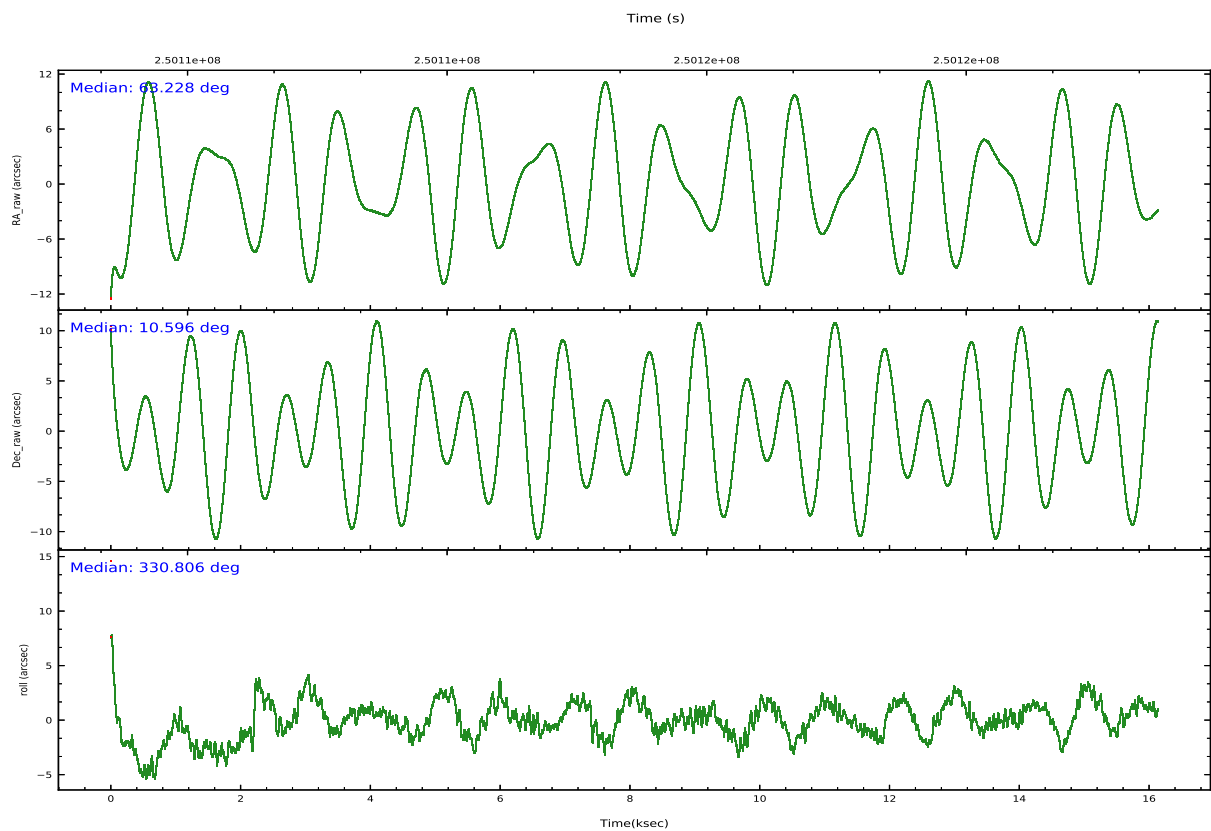
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11750	4496	5904	4341	3929
	10%	4%	4%	3%	3%
grade 1 events	90	56	65	64	47
	0%	0%	0%	0%	0%
grade 2 events	3803	2718	2875	2354	2563
	3%	2%	2%	2%	2%
grade 3 events	1658	1441	1293	1264	1264
	1%	1%	1%	1%	1%
grade 4 events	1553	1416	1305	1257	1280
	1%	1%	1%	1%	1%
grade 5 events	3802	4287	3701	4622	4465
	3%	4%	2%	4%	3%
grade 6 events	2405	2423	2112	2085	2476
	2%	2%	1%	1%	2%
grade 7 events	89646	87477	106308	98353	97127
	78%	83%	86%	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	63.200047	63.22442170325	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.595840	10.594480554145	Alternating exposures requested	N	N
[deg] Pointing Roll	330.604581	330.80617195009	[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)	250106957.184000	250105593.05696			
Observation start date	2005-12-04T18:08:13	2005-12-04T17:46:33			
[s] Observation end time (MET)	250122957.184000	250123812.43281			
Observation end date	2005-12-04T22:34:53	2005-12-04T22:50:12			
Read mode	TIMED	TIMED			

2.3 Aspect



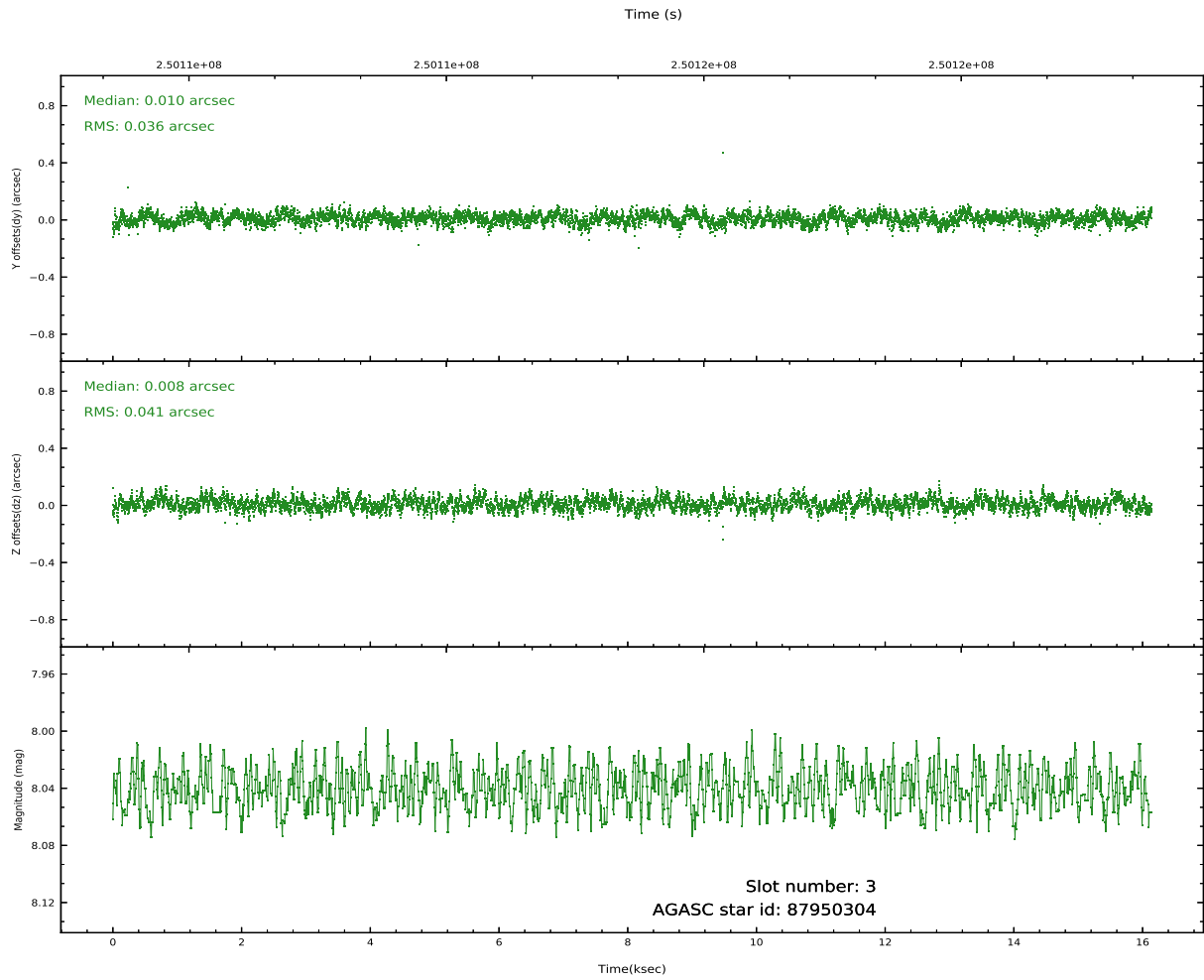
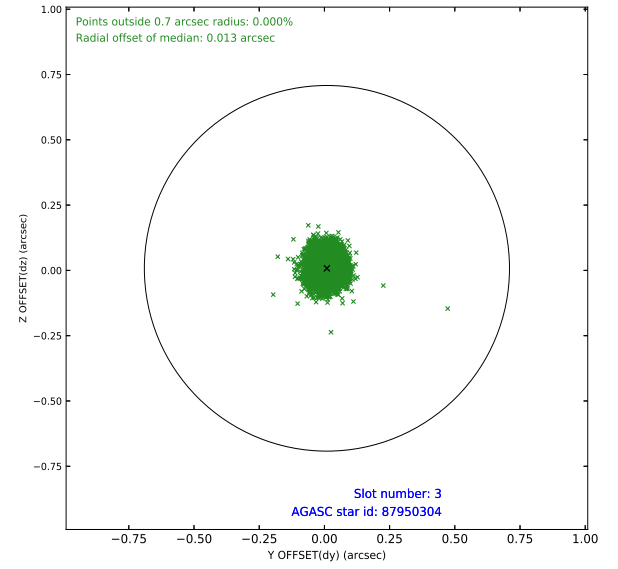
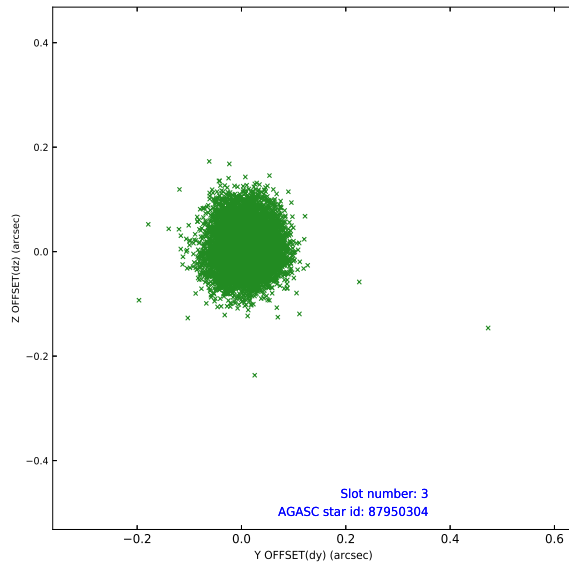


Slot Statistics

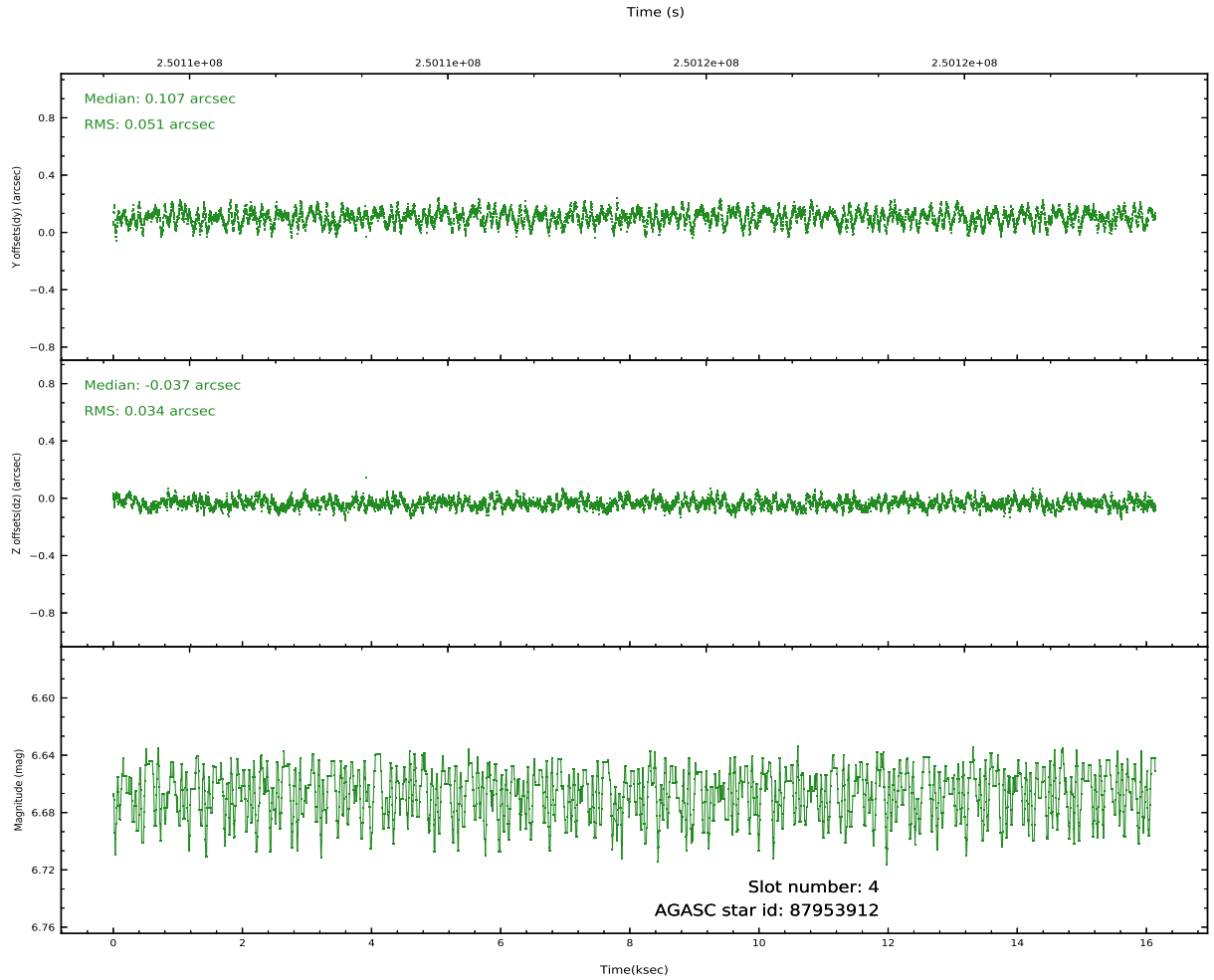
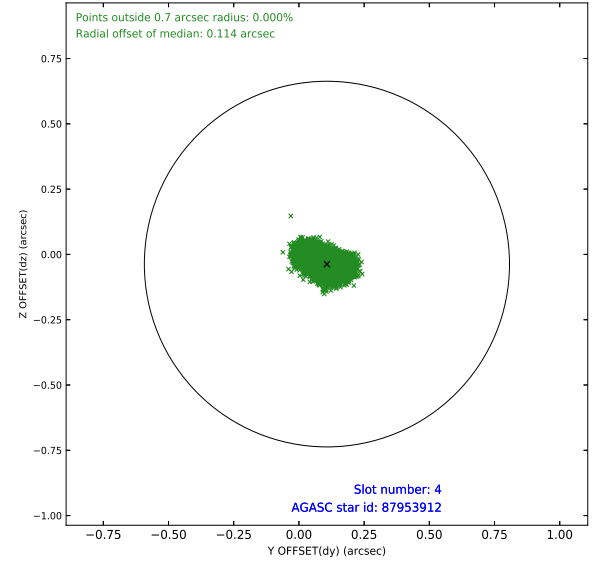
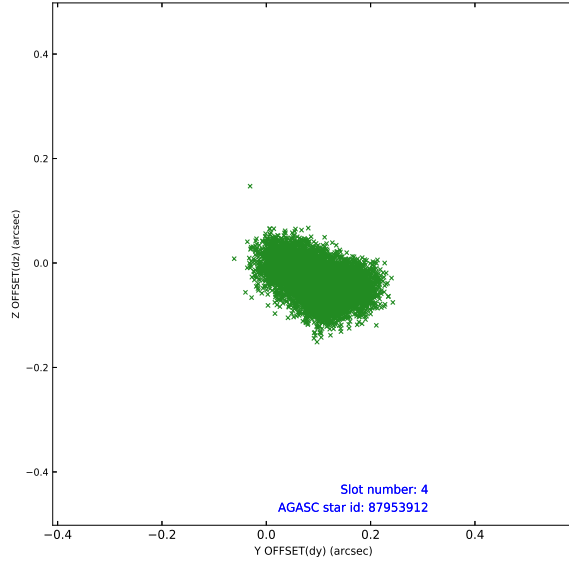
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	3937	1.000	-0.022	-0.074	0.028	0.040	0.000000	0.000000	932.46	-834
1	FID		ACIS-I-4	7.18	3937	1.000	0.157	0.085	0.021	0.030	0.000000	0.000000	2152.83	1064
2	FID		ACIS-I-5	7.22	3937	1.000	-0.233	0.059	0.013	0.022	0.000000	0.000000	-1815.40	1063
3	GUIDE	used	87950304	8.04	7873	1.000	0.010	0.008	0.058	0.093	63.753878	10.748130	1436.78	1440
4	GUIDE	used	87953912	6.66	7874	1.000	0.107	-0.037	0.064	0.106	63.394036	10.212467	1276.84	-864
5	GUIDE	used	87954552	8.33	7871	1.000	-0.067	-0.017	0.071	0.115	63.195345	11.171305	-1031.09	1796
6	GUIDE	used	88343064	8.77	7871	1.000	-0.009	-0.139	0.064	0.102	63.058020	11.314635	-1707.16	2008
7	GUIDE	used	87818344	8.36	7863	1.000	-0.041	0.182	0.052	0.086	62.599114	10.854229	-2308.73	-230

2.4 Star Slots

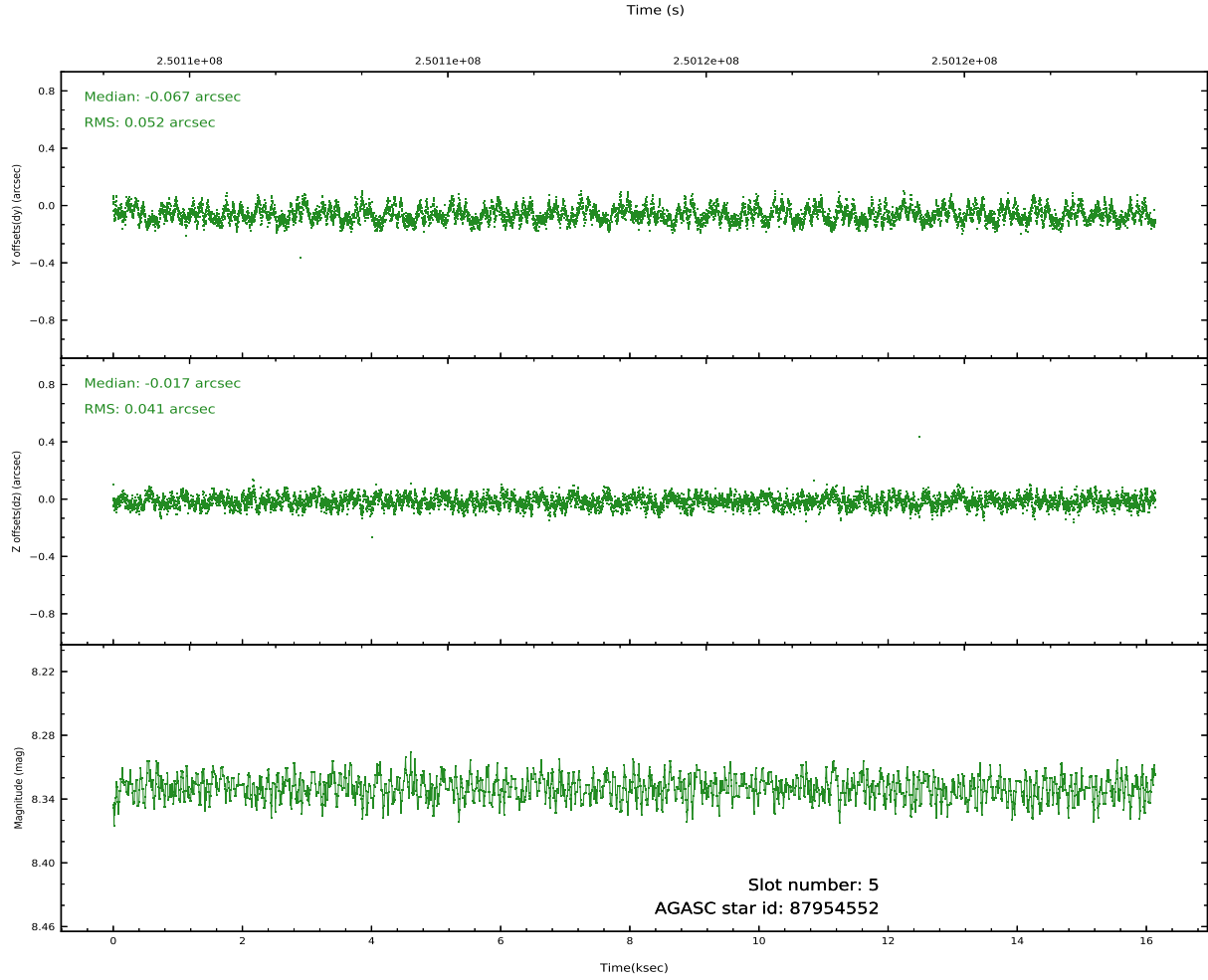
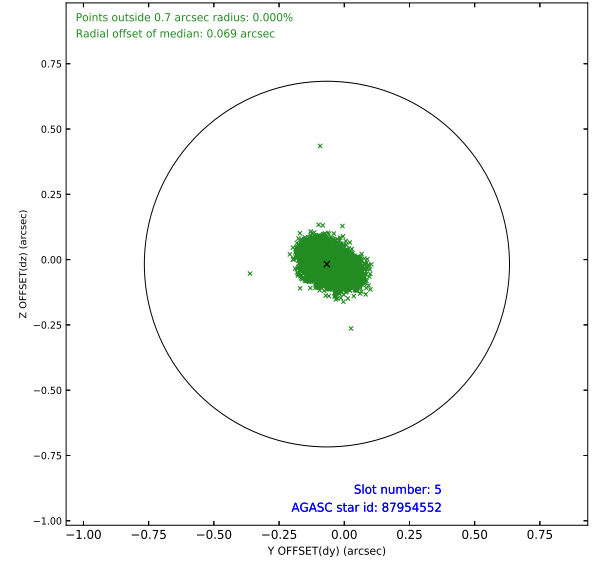
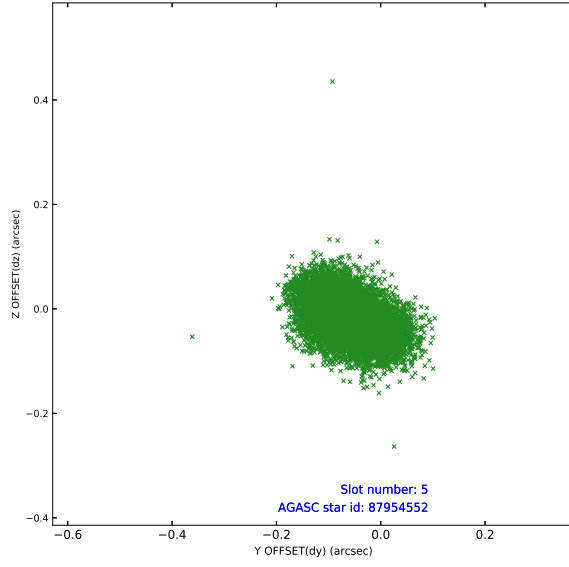
2.4.1 Slot 3



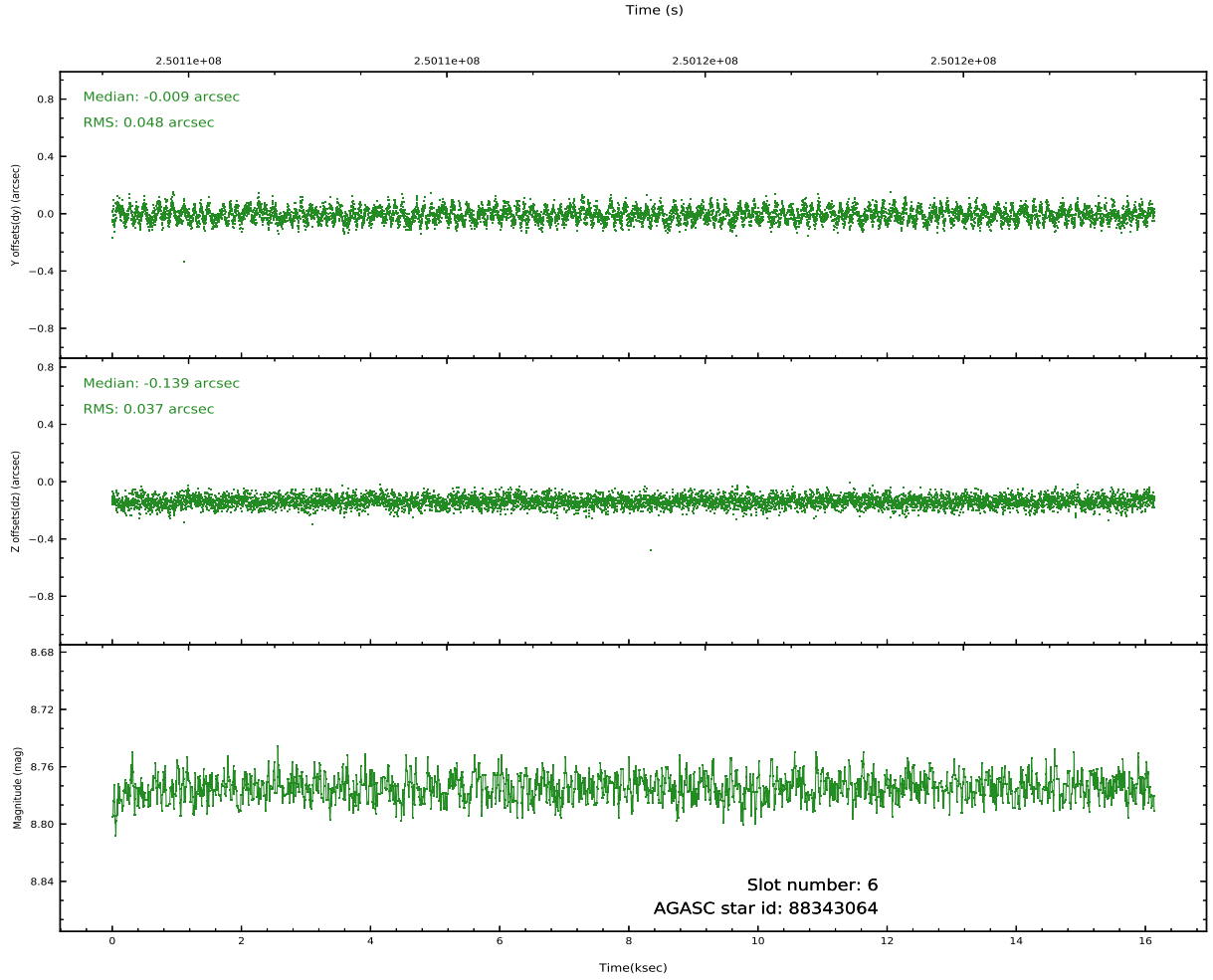
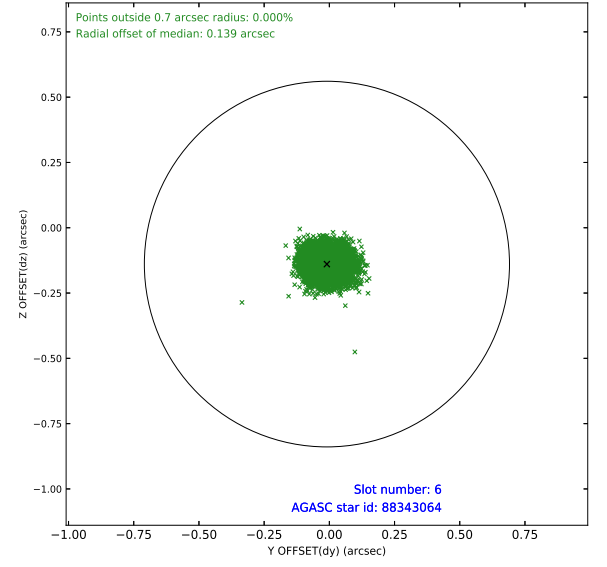
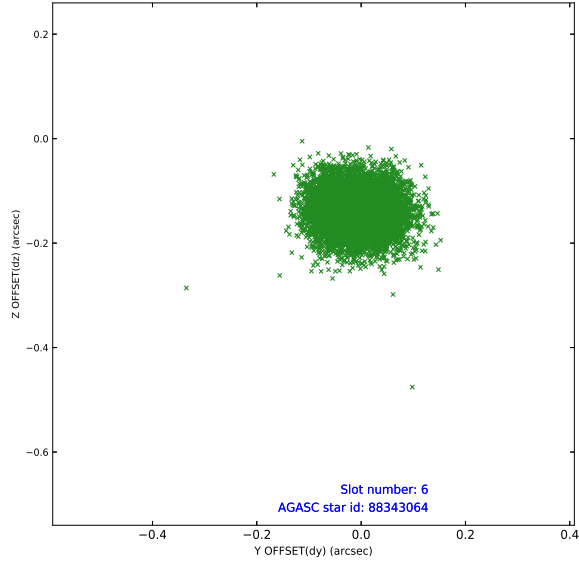
2.4.2 Slot 4



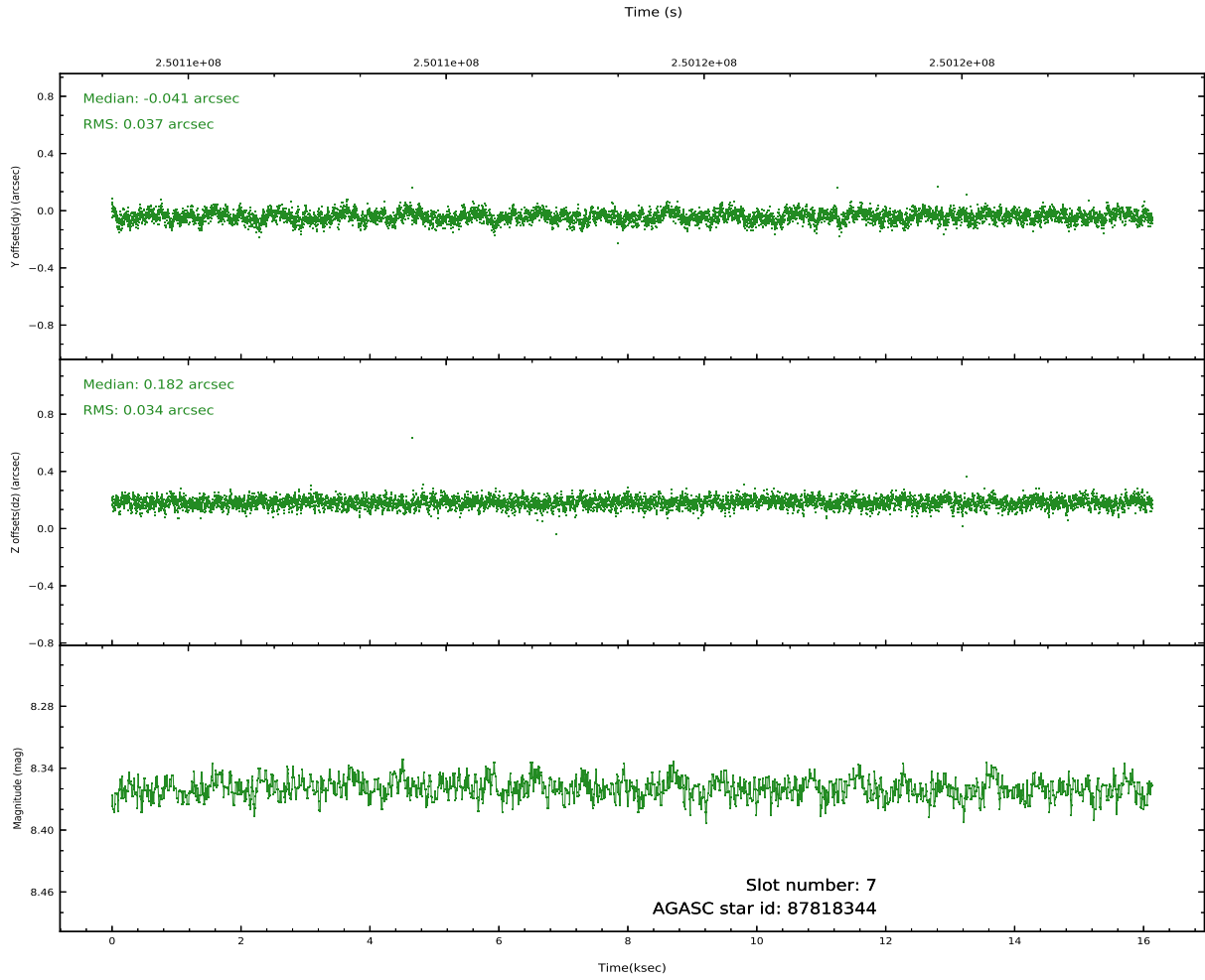
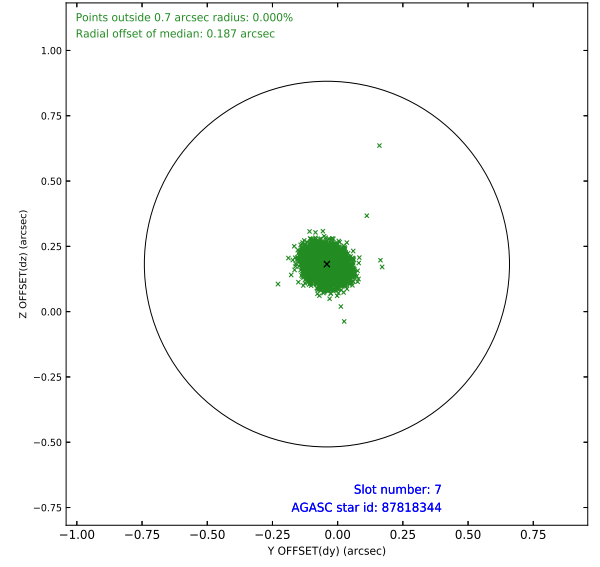
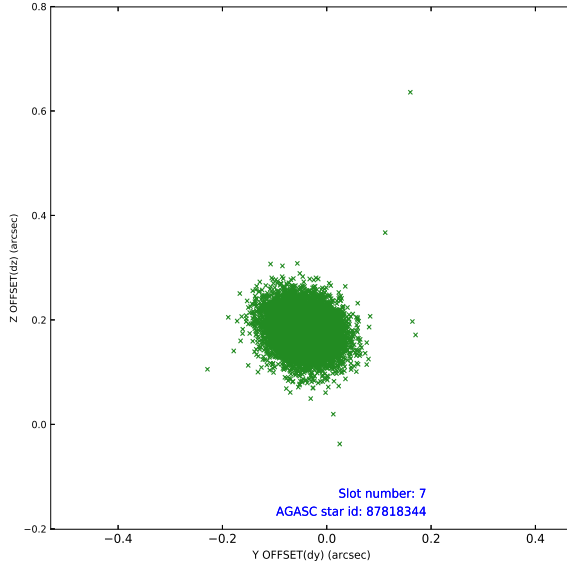
2.4.3 Slot 5



2.4.4 Slot 6

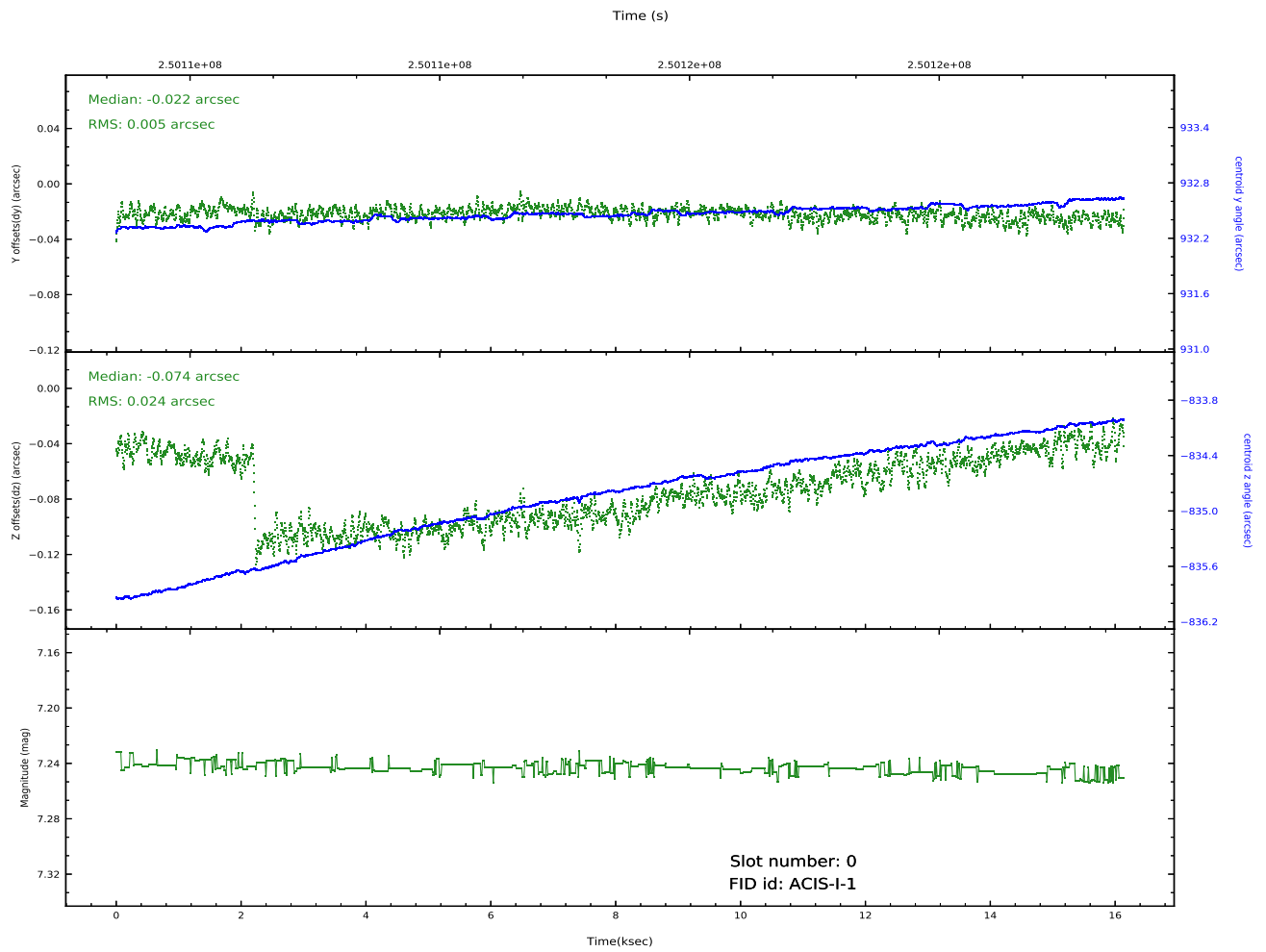
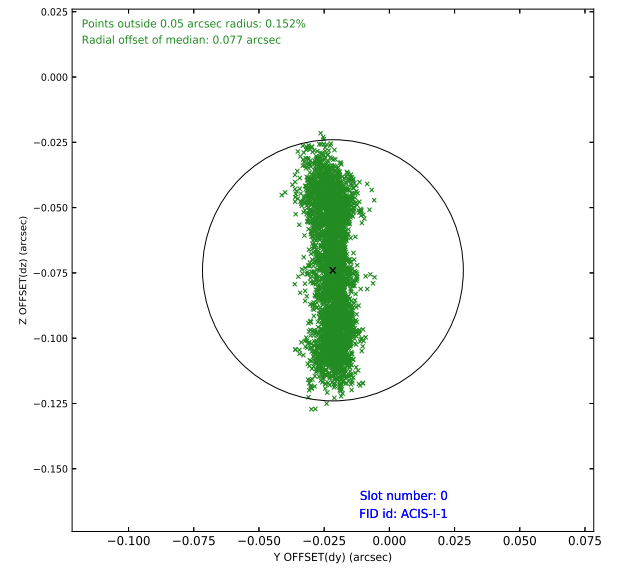
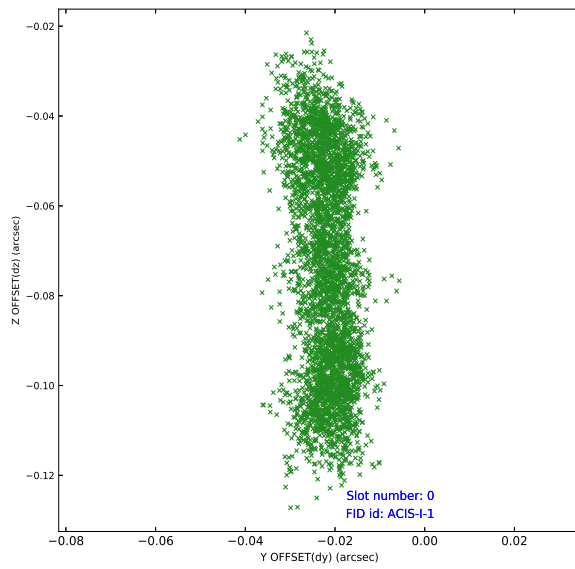


2.4.5 Slot 7

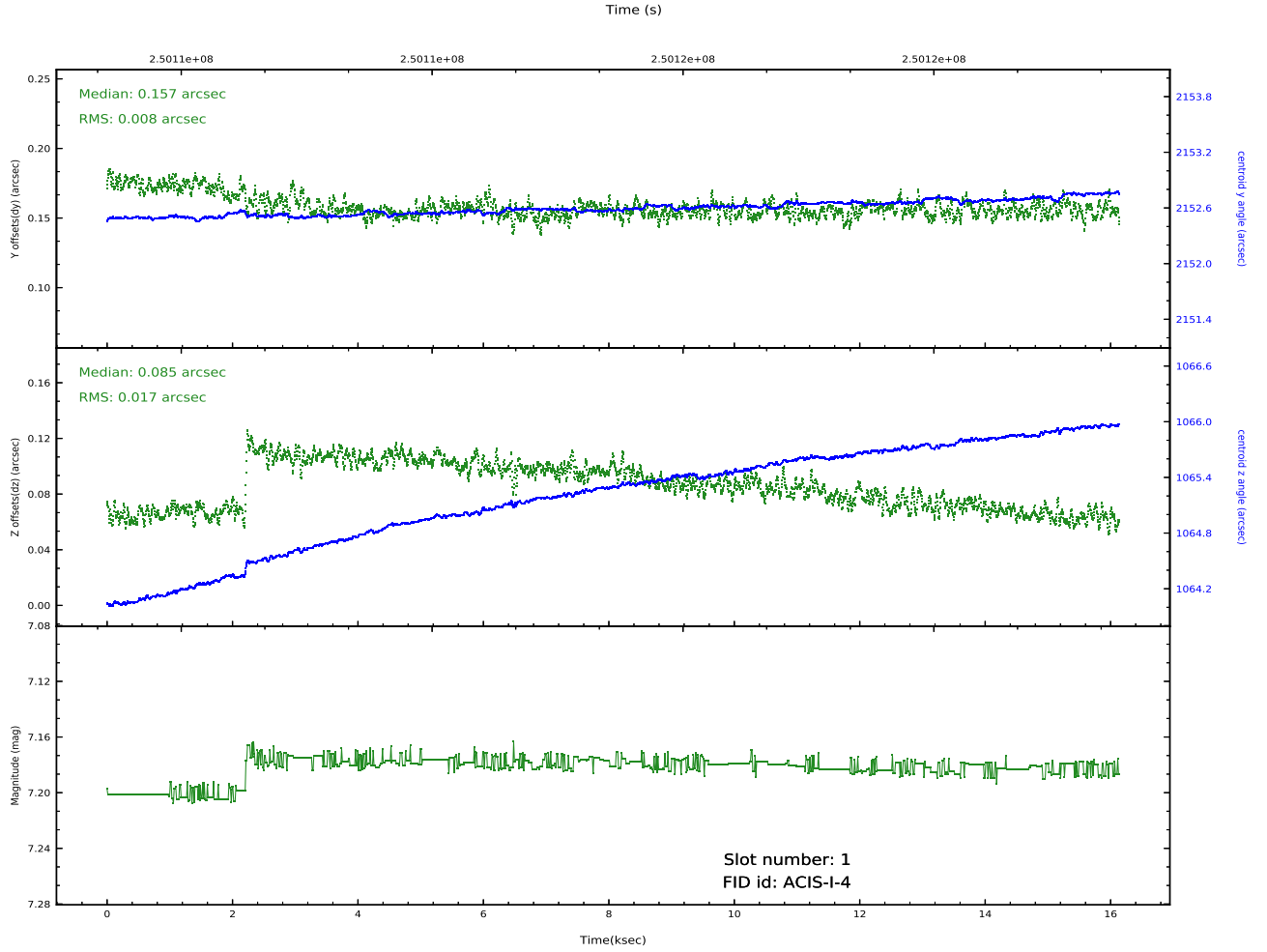
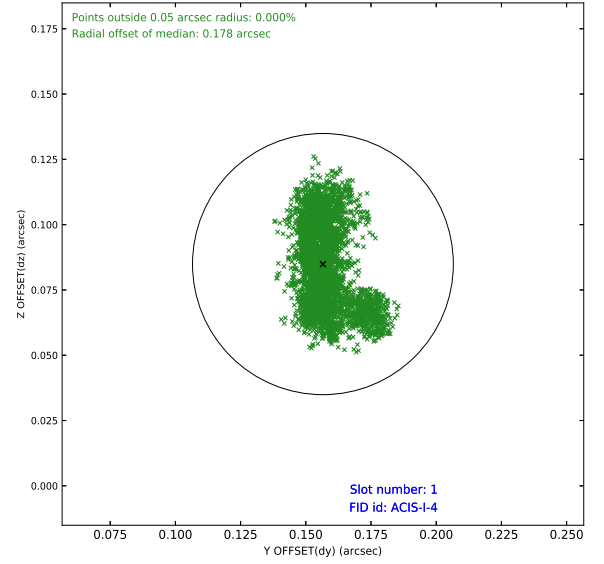
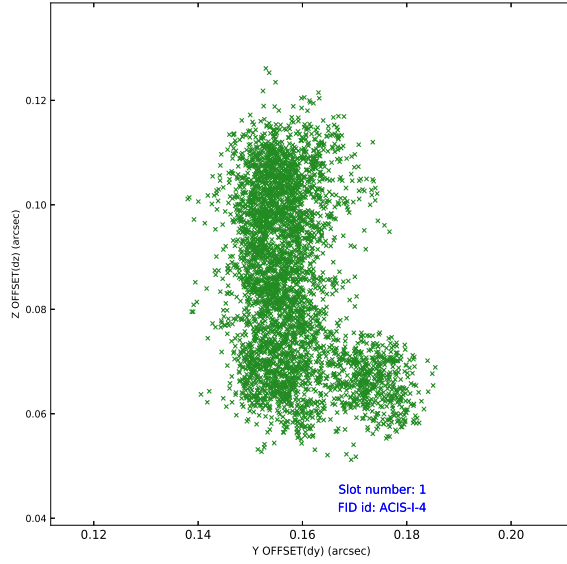


2.5 FID Slots

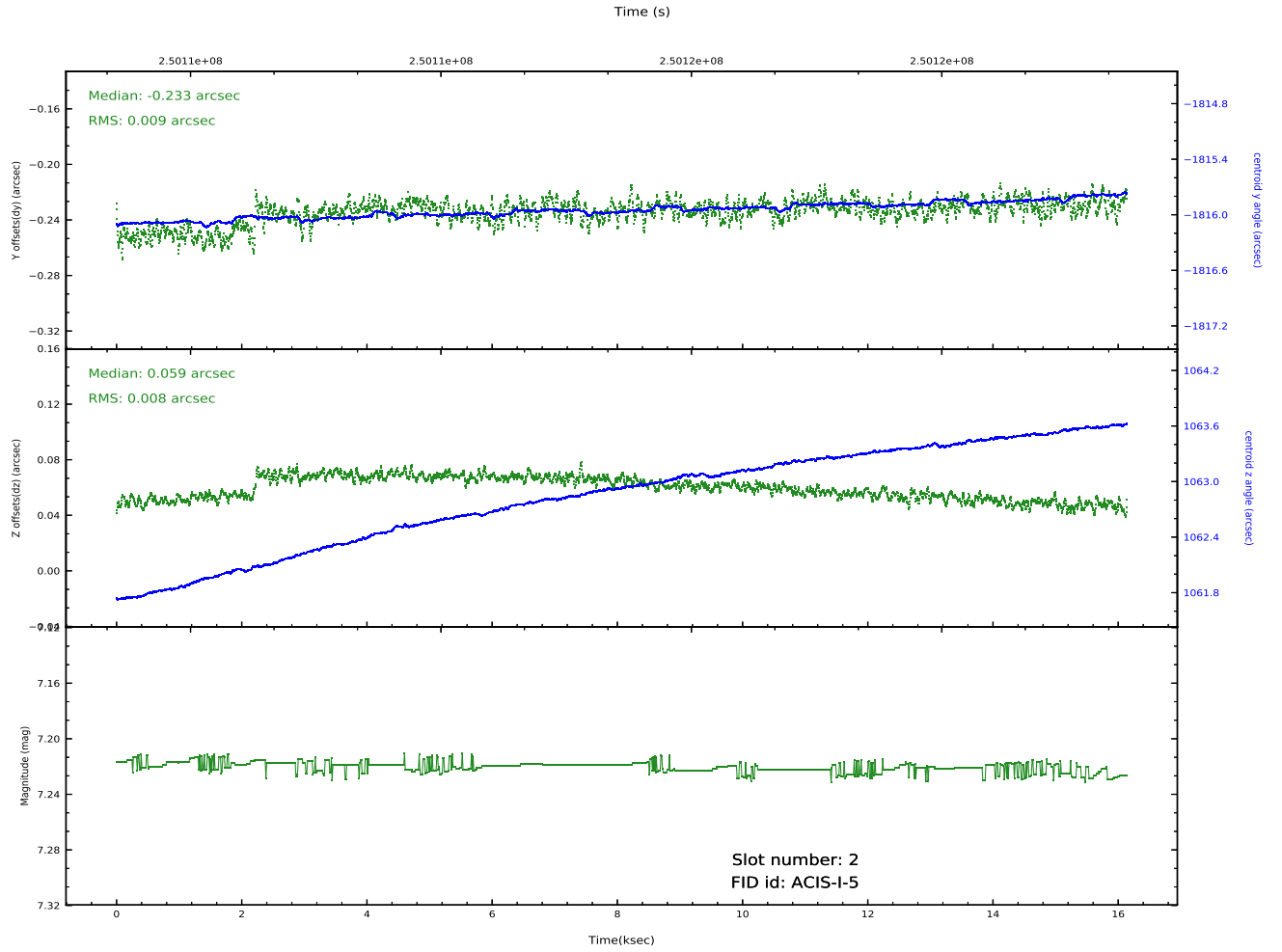
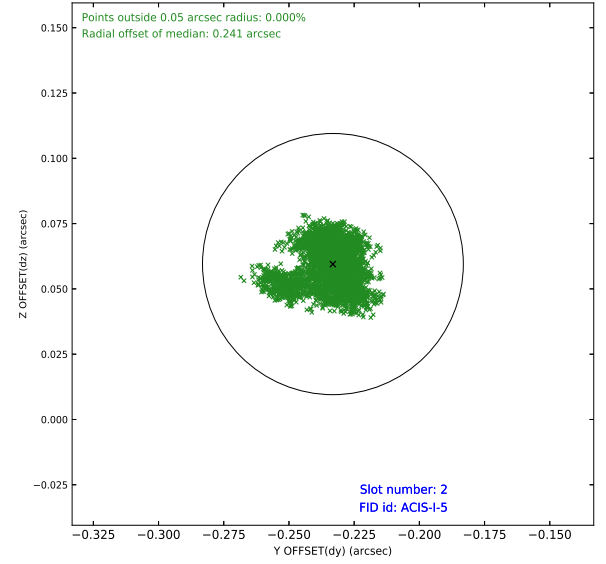
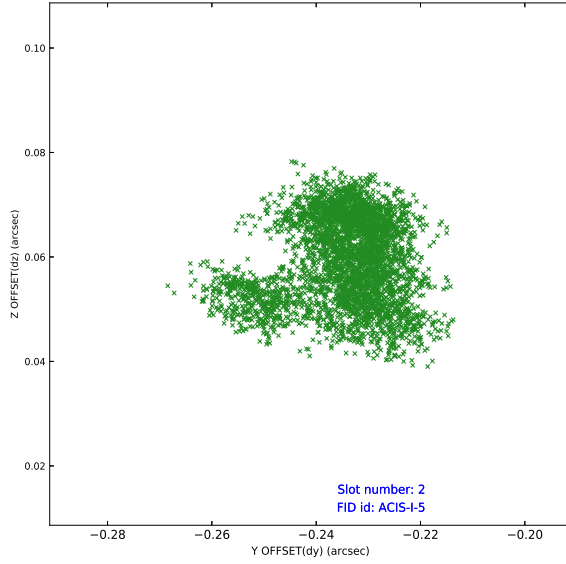
2.5.1 Slot 0



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	16.12925

A.2 Comments