

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6358 - L2 Version 4
Chandra X-Ray Center

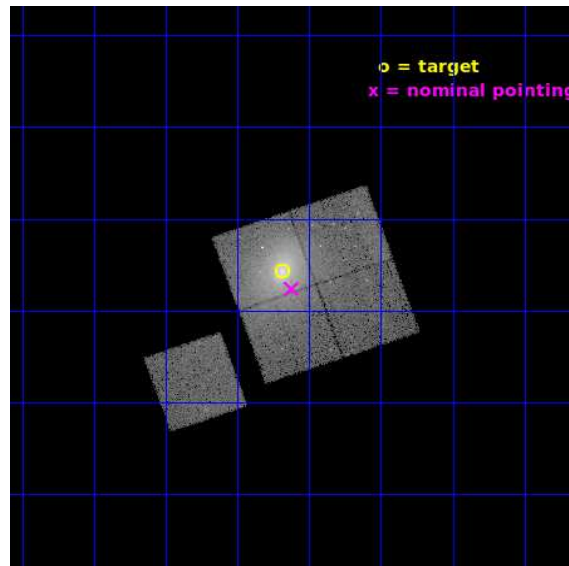
L2 Processing Date : Oct 9 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

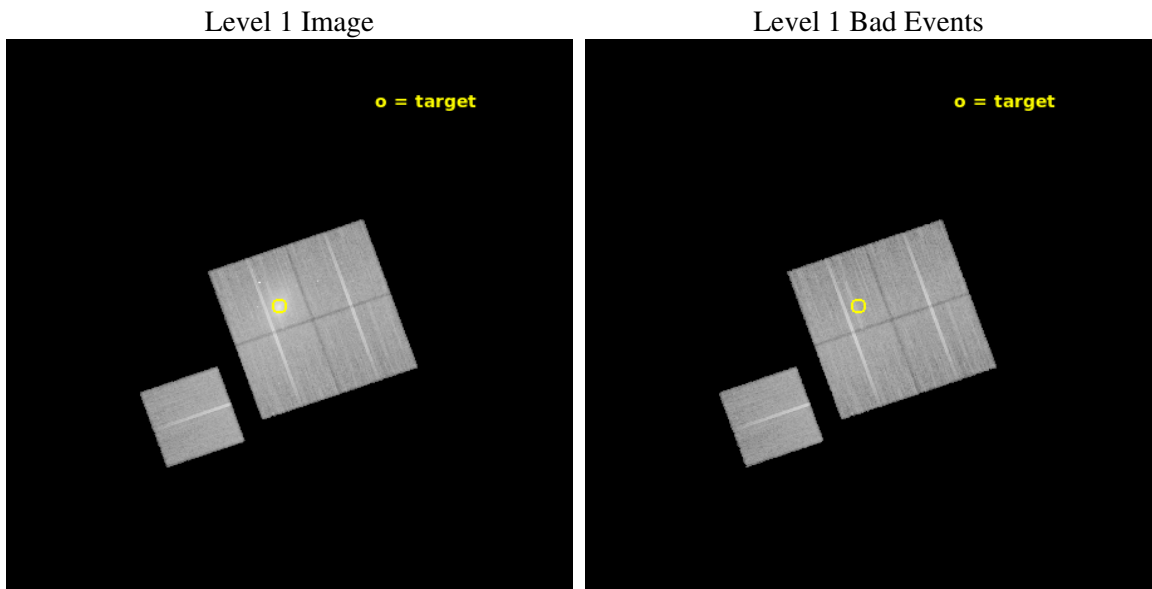
seq_num	800535	Sequence number
obs_id	6358	Observation id
title	A Deep Observation of a Radio-Quiet Cooling Flow	Proposal title
observer	Megan Donahue	Principal investigator
object	Abell 1650	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.672083	Observer's specified target RA [deg]
dec_targ	-1.761389	Observer's specified target Dec [deg]
ra_nom	194.6552555767	Nominal RA [deg]
dec_nom	-1.7932234427672	Nominal Dec [deg]
roll_nom	250.59538783468	Nominal Roll [deg]
revision	4	Processing version of data
ontime	32221.358947843	Sum of GTIs [s]
livetime	31800.36317217	Livetime [s]
ontime0	32221.358967751	Sum of GTIs [s]
ontime1	32218.217957705	Sum of GTIs [s]
ontime2	32208.795126617	Sum of GTIs [s]
ontime3	32221.358947843	Sum of GTIs [s]
ontime6	32224.499938011	Sum of GTIs [s]
l2events	185957	Number of level 2 events



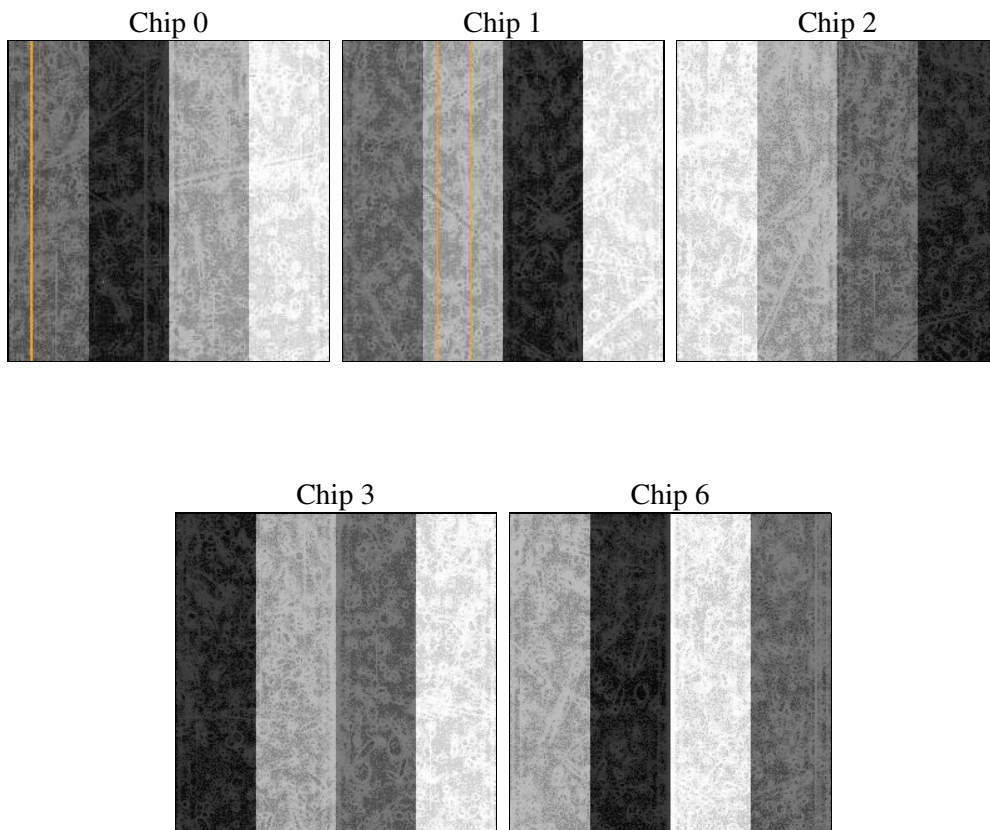
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32074.132000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	32221.358947843	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	32221.358967751	Sum of GTIs [s]
date	2020-10-09T19:57:10	Date and time of file creation	ontime1	32218.217957705	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	32208.795126617	Sum of GTIs [s]
			ontime3	32221.358947843	Sum of GTIs [s]
			ontime6	32224.499938011	Sum of GTIs [s]
			l1events	1078994	Number of level 1 events

2.1.4 Events

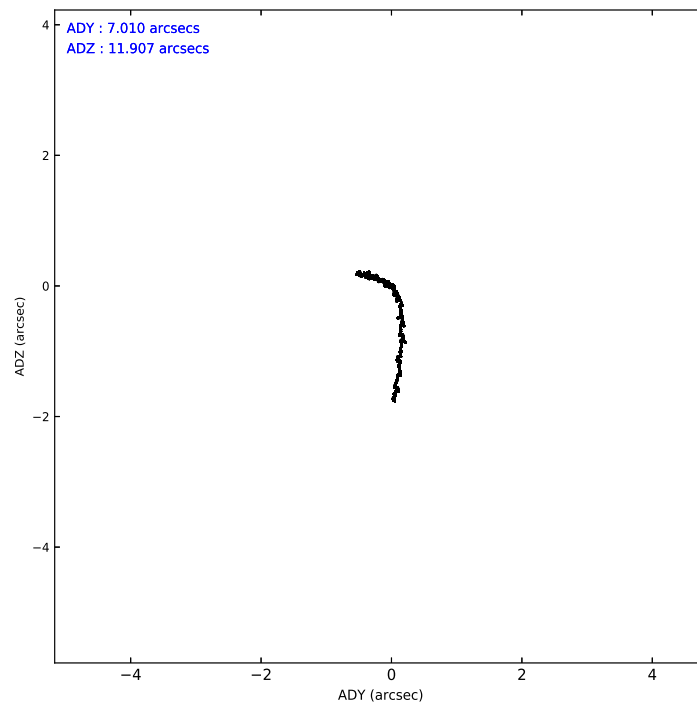
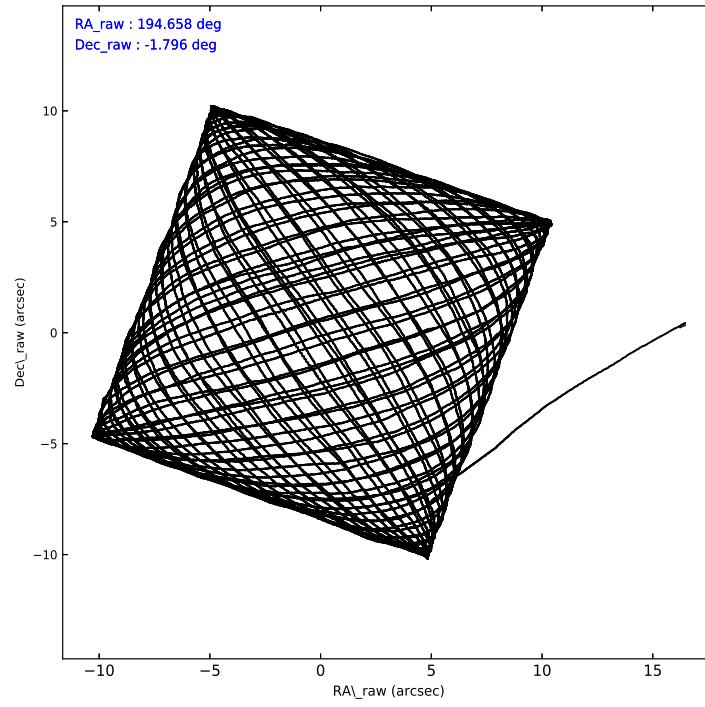
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	187351	194538	218867	285516	192722
rejected events	165924	165432	189287	180135	171492
rejected %	88%	85%	86%	63%	88%

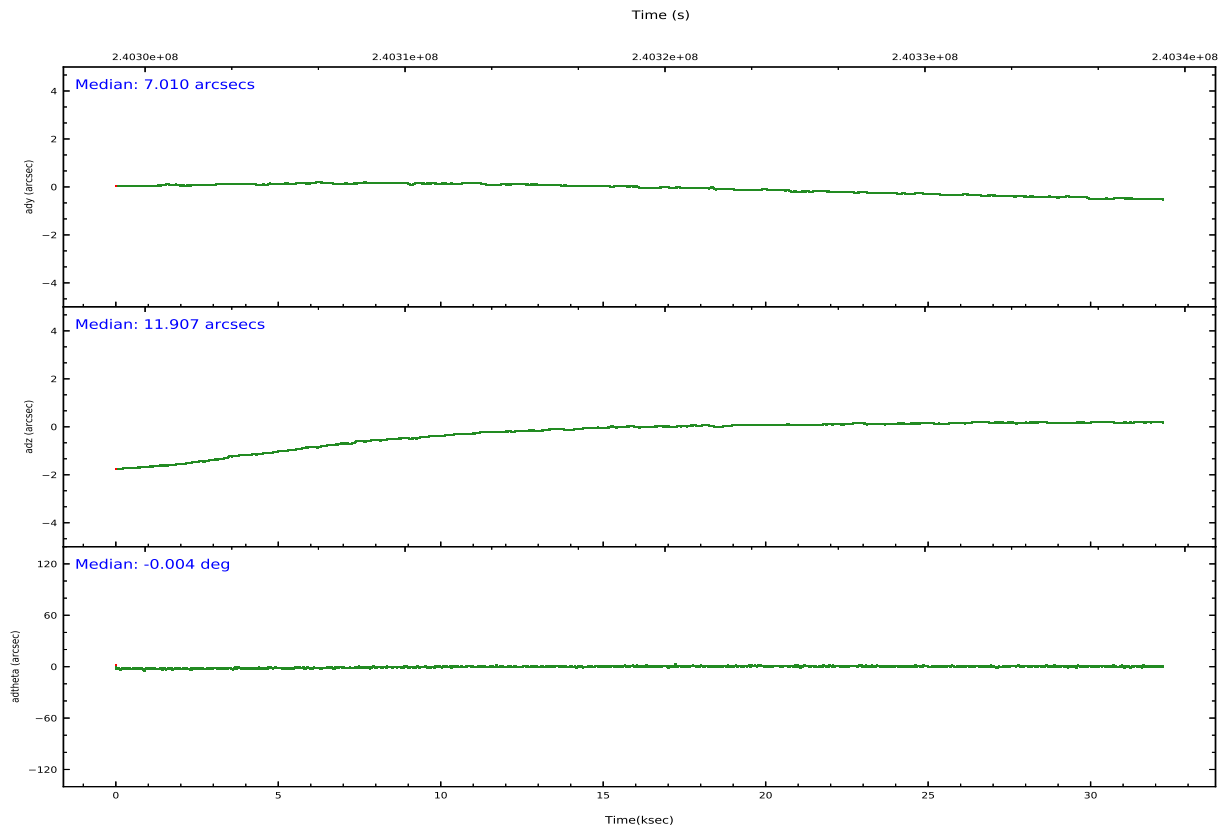
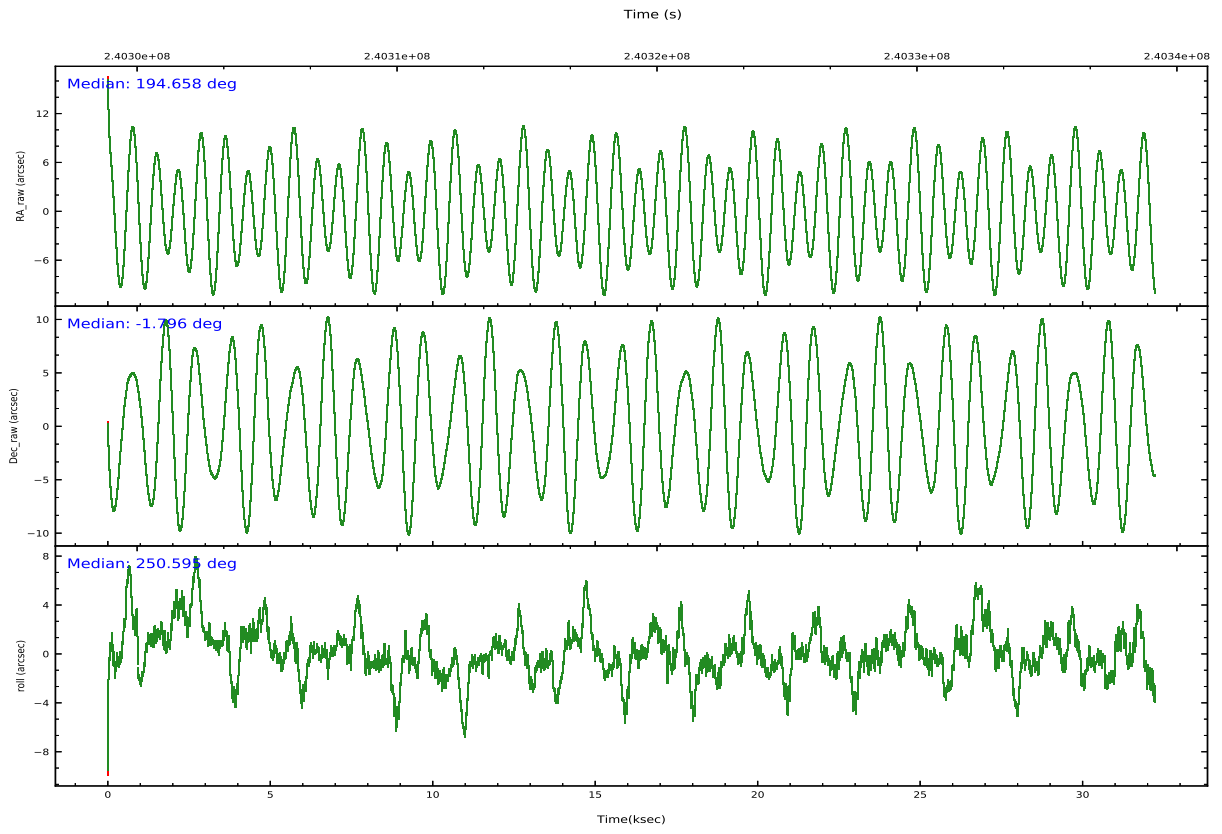
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8354	13977	15396	78698	7881
	4%	7%	7%	27%	4%
grade 1 events	109	114	152	506	85
	0%	0%	0%	0%	0%
grade 2 events	4979	5647	5641	12187	4416
	2%	2%	2%	4%	2%
grade 3 events	2285	2618	2487	4728	2356
	1%	1%	1%	1%	1%
grade 4 events	2146	2651	2442	4744	2334
	1%	1%	1%	1%	1%
grade 5 events	6900	7652	6599	8322	7967
	3%	3%	3%	2%	4%
grade 6 events	3940	4653	3912	5691	4529
	2%	2%	1%	1%	2%
grade 7 events	158638	157226	182238	170640	163154
	84%	80%	83%	59%	84%

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	194.652611	194.6552555767	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.769317	-1.7932234427672	Alternating exposures requested	N	N
[deg] Pointing Roll	250.386231	250.59538783468	[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	-227.592463	-227.5958210972112			
[mm] SIM translation stage offset	-6	-5.996631905718488			
[s] Observation start time (MET)	240303256.184000	240302072.35563			
Observation start date	2005-08-13T06:53:12	2005-08-13T06:34:32			
[s] Observation end time (MET)	240335330.184000	240335557.56967			
Observation end date	2005-08-13T15:47:46	2005-08-13T15:52:37			
Read mode	TIMED	TIMED			

2.3 Aspect





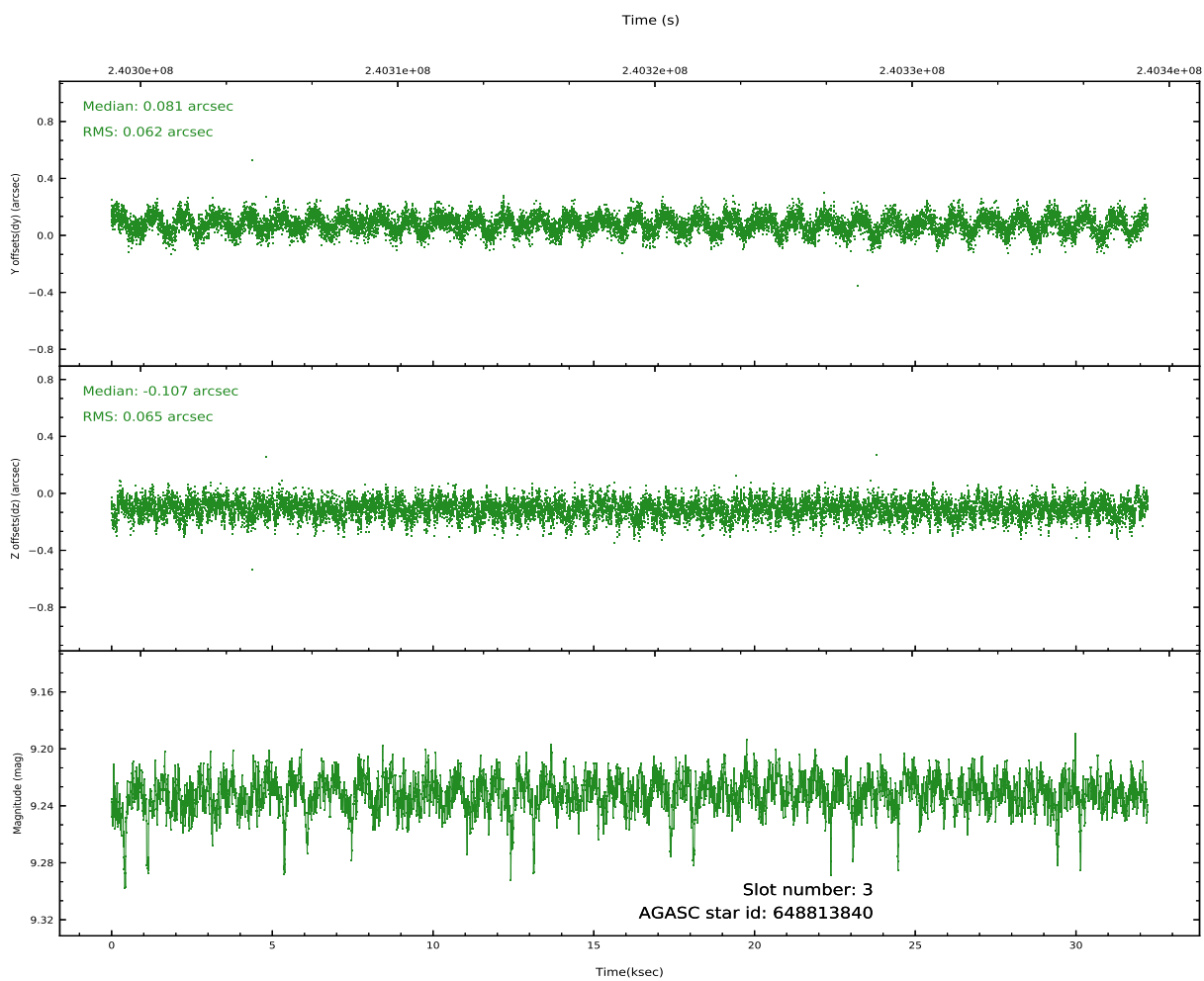
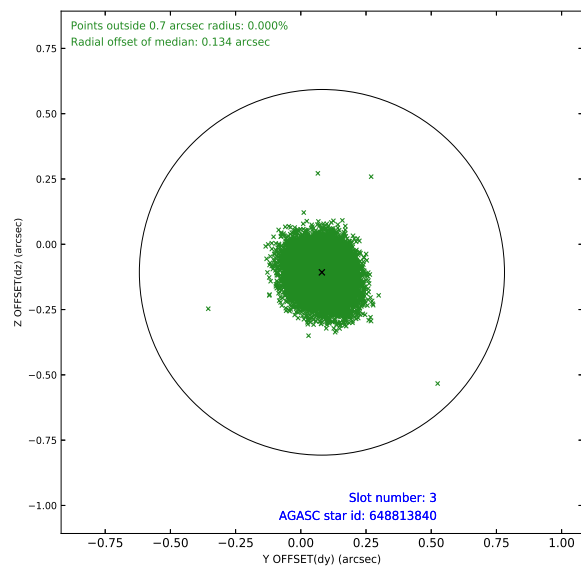
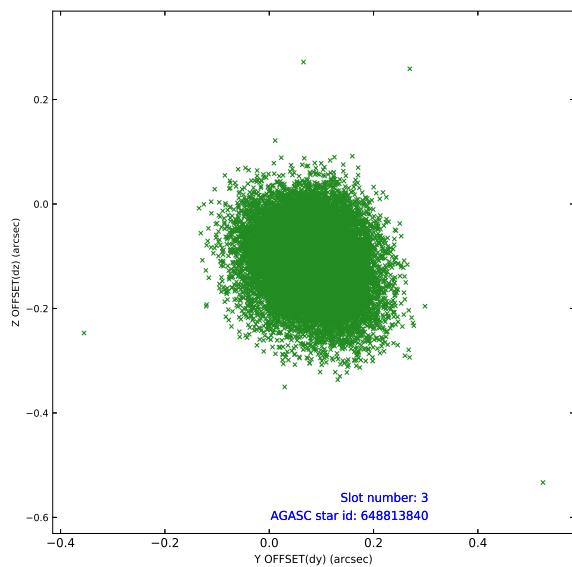
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	7858	1.000	0.064	-0.190	0.023	0.059	0.000000	0.000000	932.75	-958
1	FID		ACIS-I-4	7.15	7862	1.000	0.068	0.124	0.022	0.038	0.000000	0.000000	2152.41	942
2	FID		ACIS-I-5	7.22	7862	1.000	-0.229	0.136	0.016	0.028	0.000000	0.000000	-1815.55	939
3	GUIDE	used	648813840	9.23	15718	1.000	0.081	-0.107	0.096	0.154	194.717621	-1.945504	519.45	433
4	GUIDE	used	648813864	8.81	15721	1.000	-0.178	-0.248	0.091	0.151	194.235605	-1.103465	-1753.91	-2218
5	GUIDE	used	648815800	9.56	15710	1.000	0.226	0.028	0.107	0.182	194.475560	-2.052849	1175.43	-257
6	GUIDE	used	649731776	10.04	15713	1.000	-0.194	0.158	0.142	0.231	195.271404	-1.336449	-2215.26	1575
7	GUIDE	used	649732632	9.76	15710	1.000	0.059	0.175	0.153	0.238	195.023958	-2.038250	464.00	1584

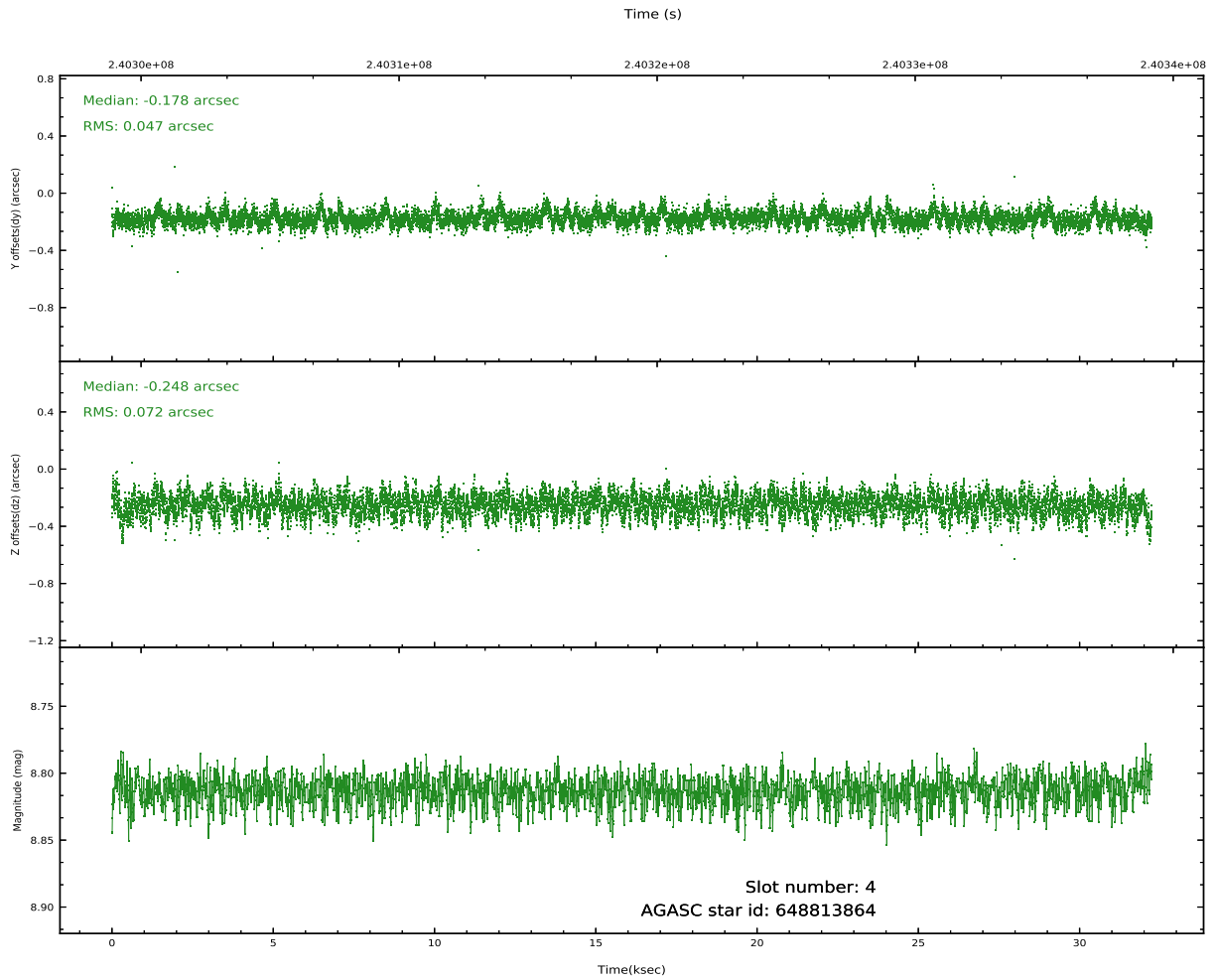
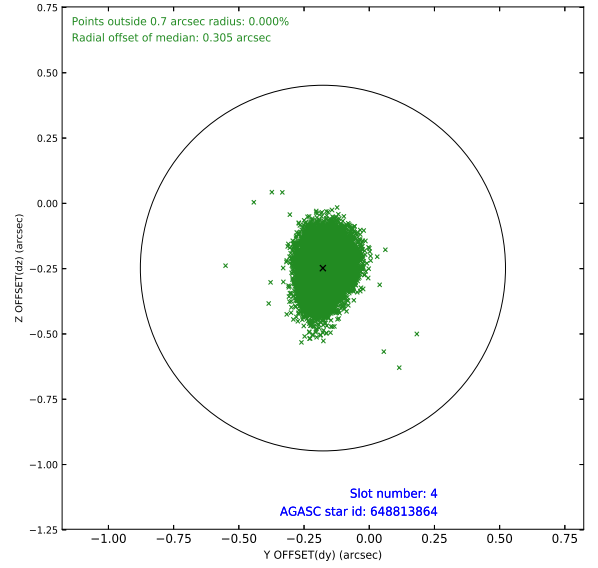
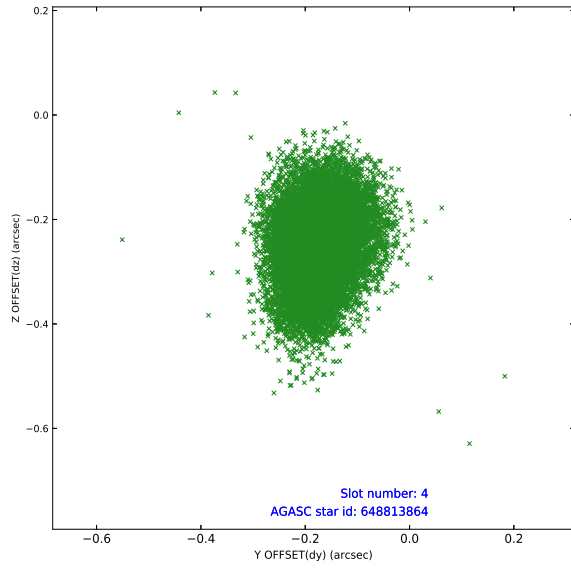
∞

2.4 Star Slots

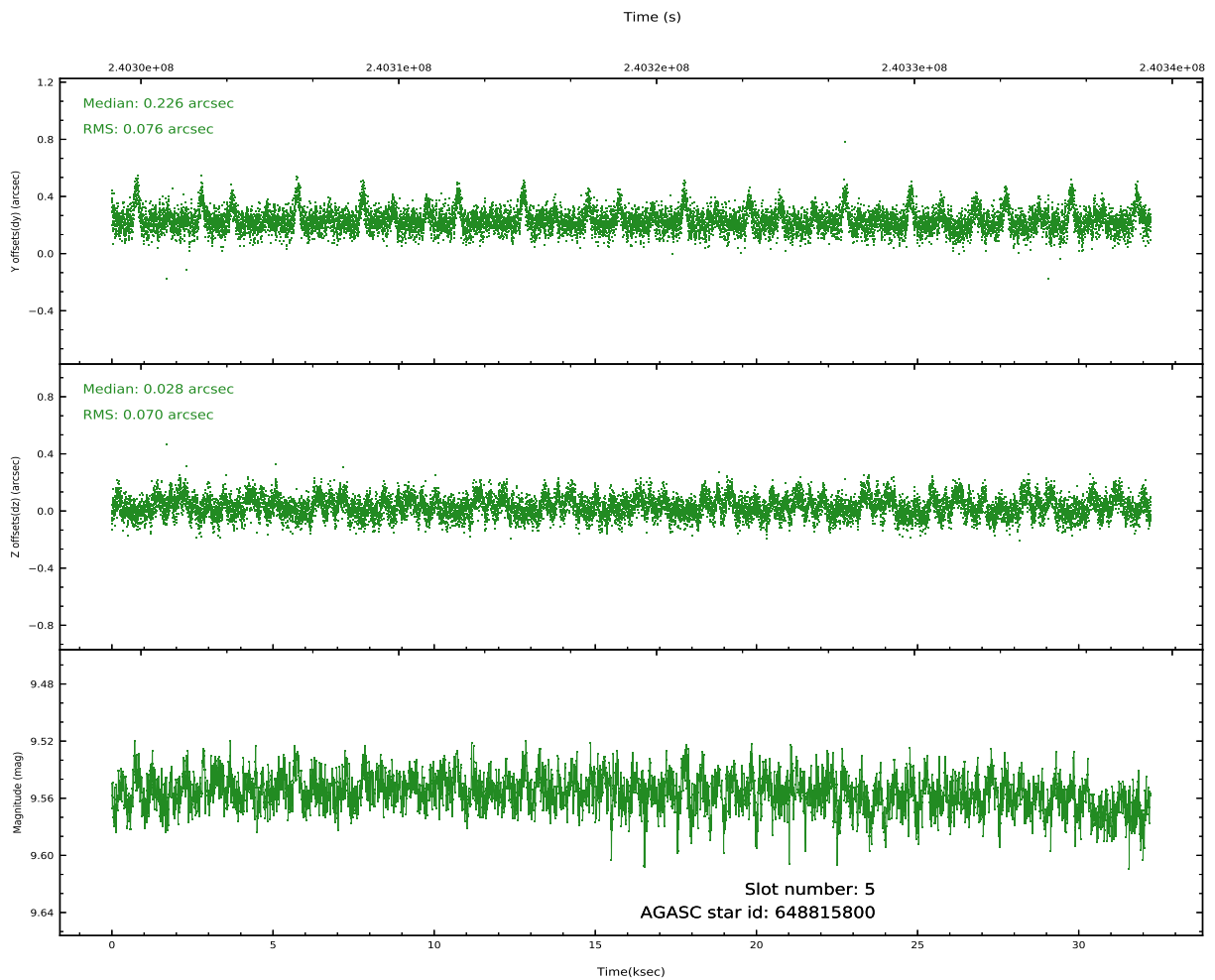
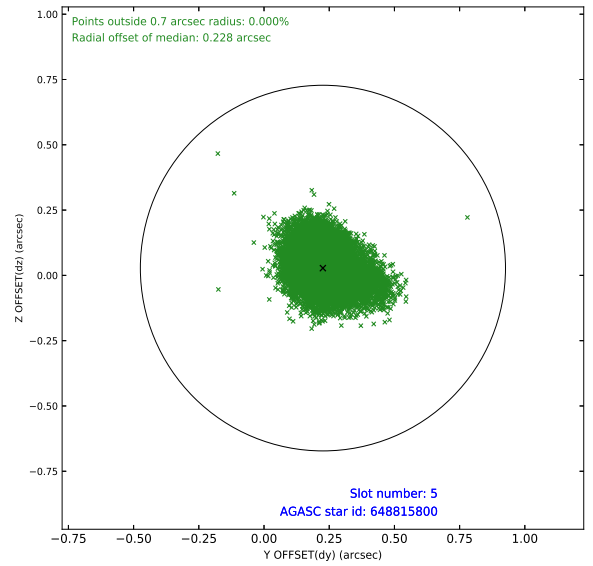
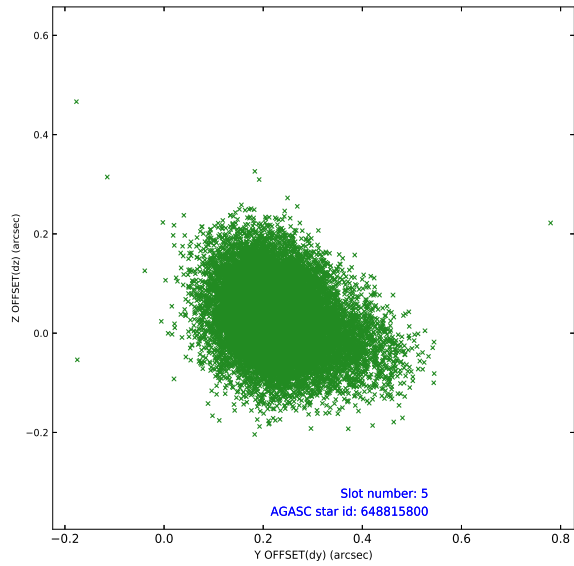
2.4.1 Slot 3



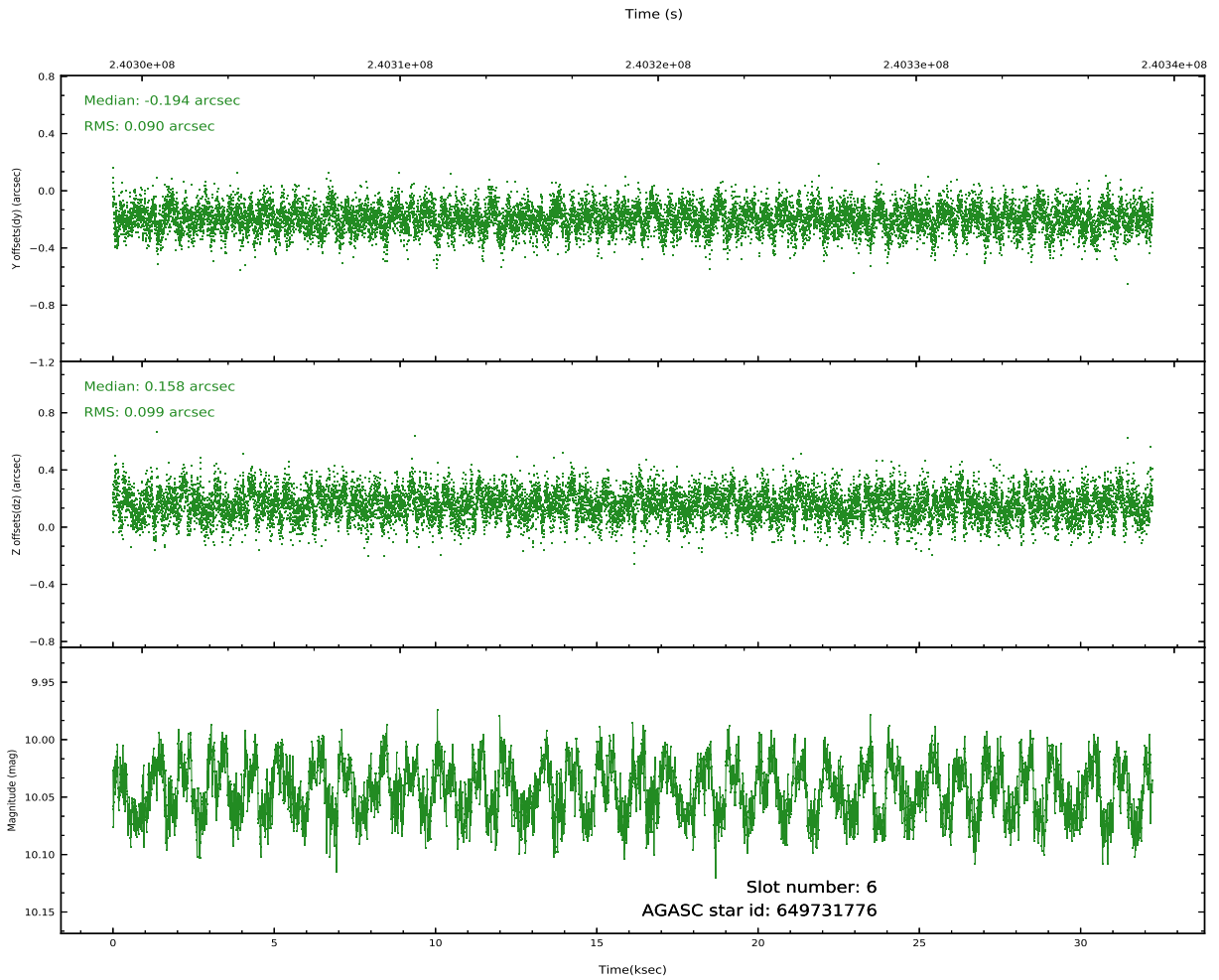
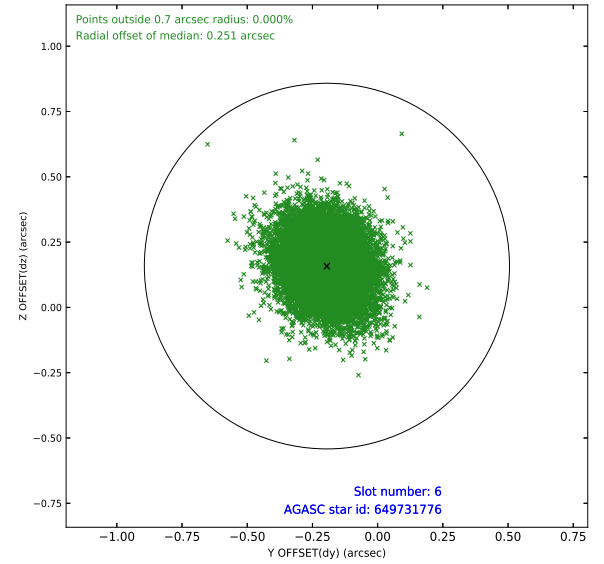
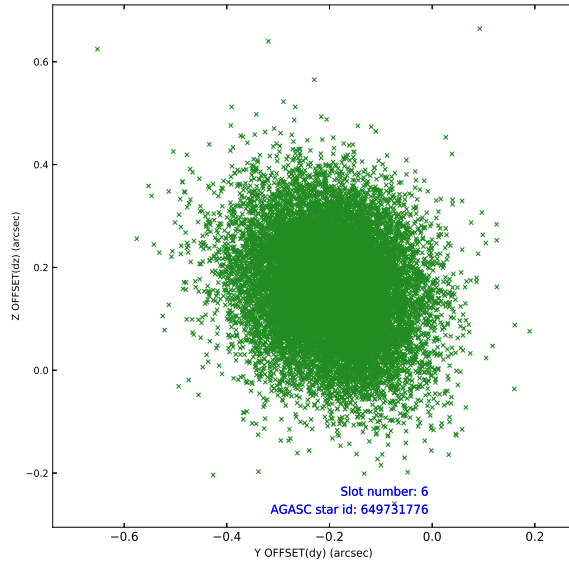
2.4.2 Slot 4



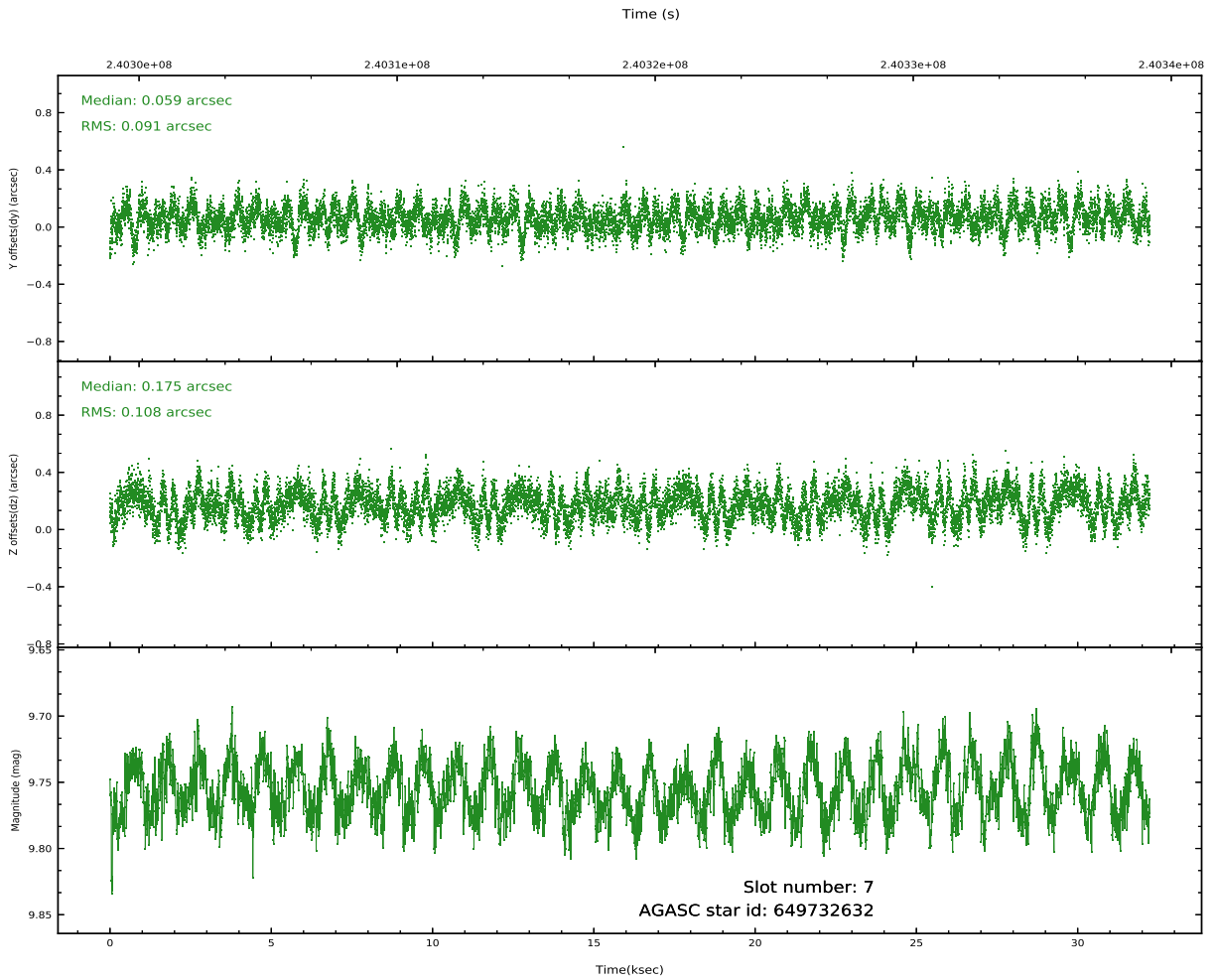
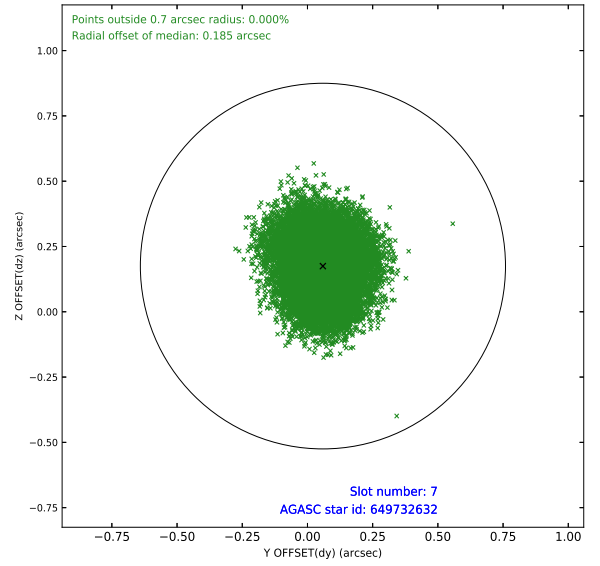
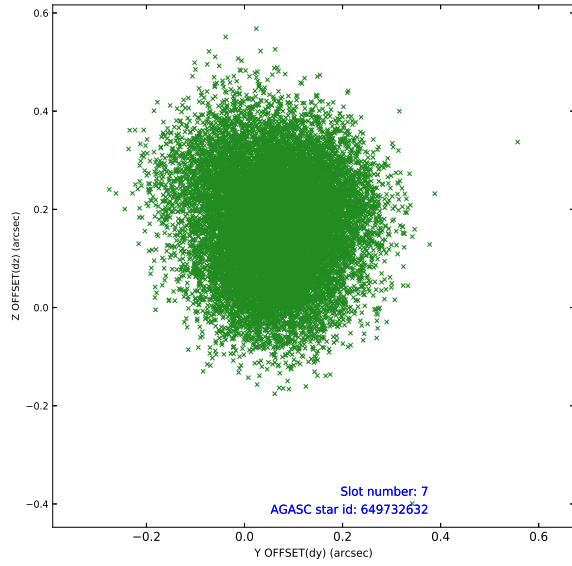
2.4.3 Slot 5



2.4.4 Slot 6

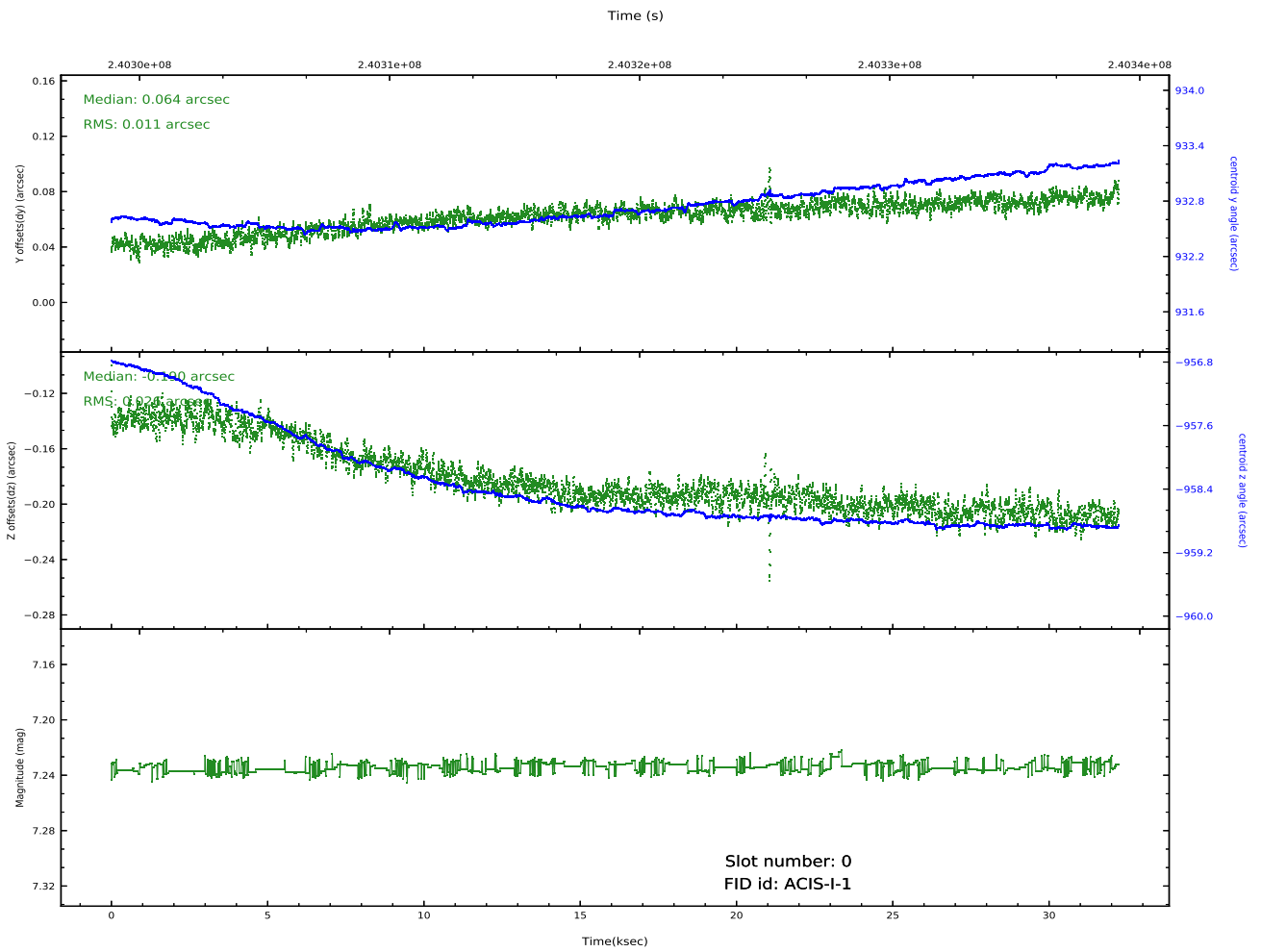
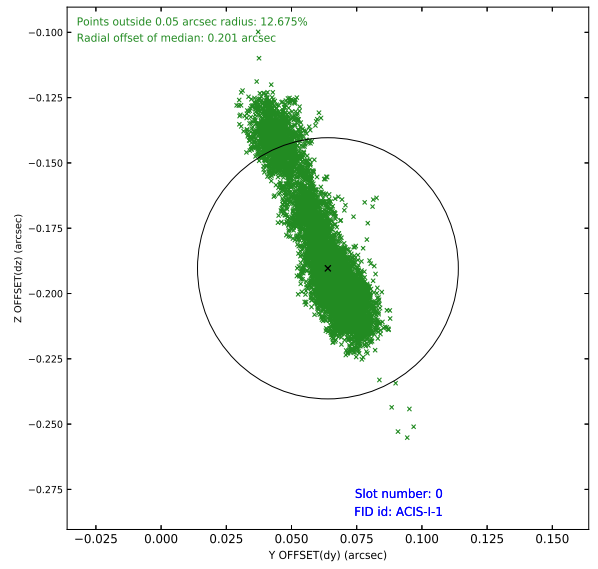
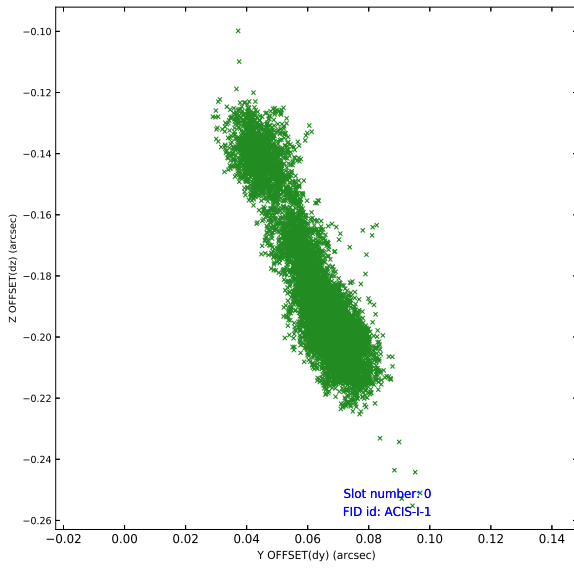


2.4.5 Slot 7

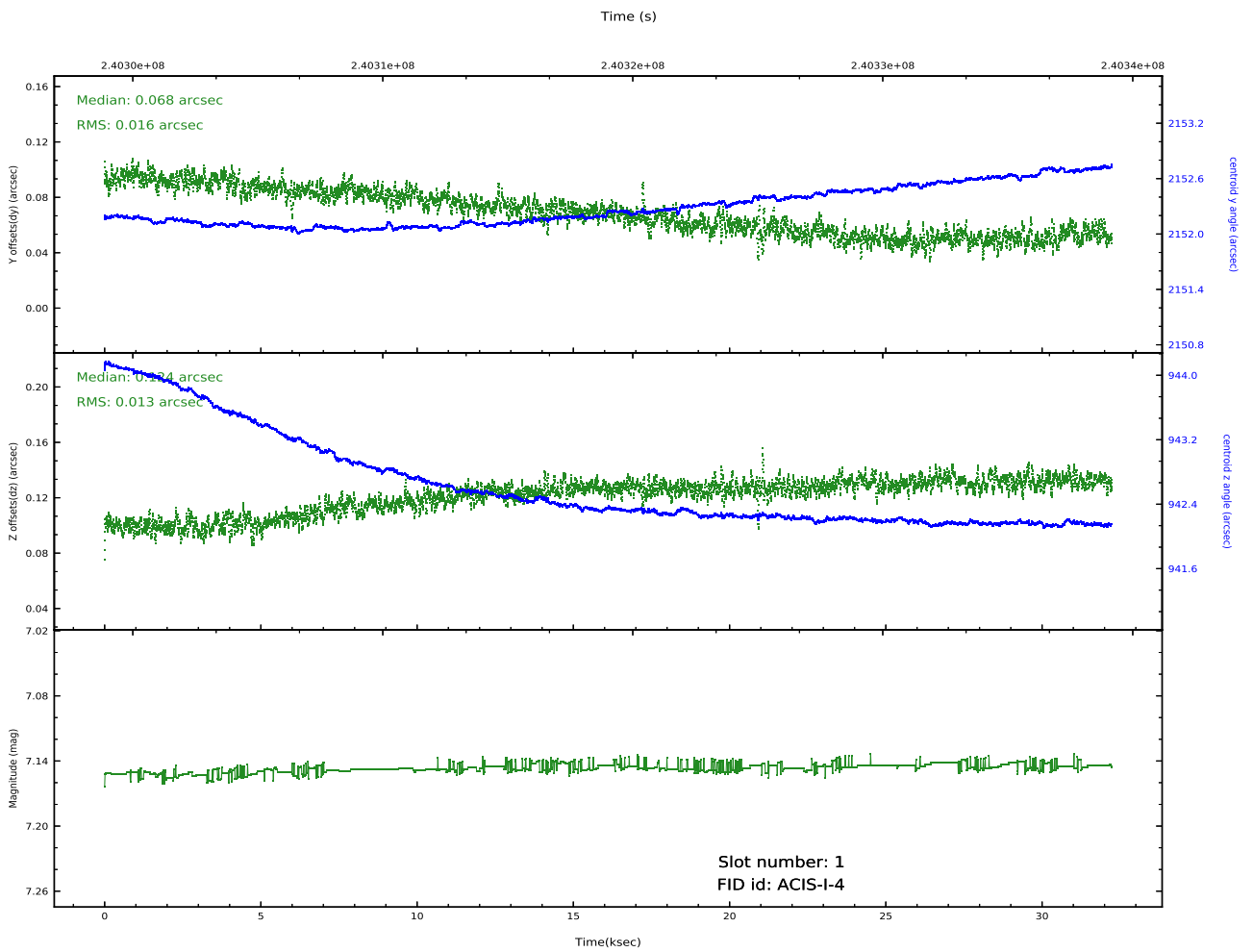
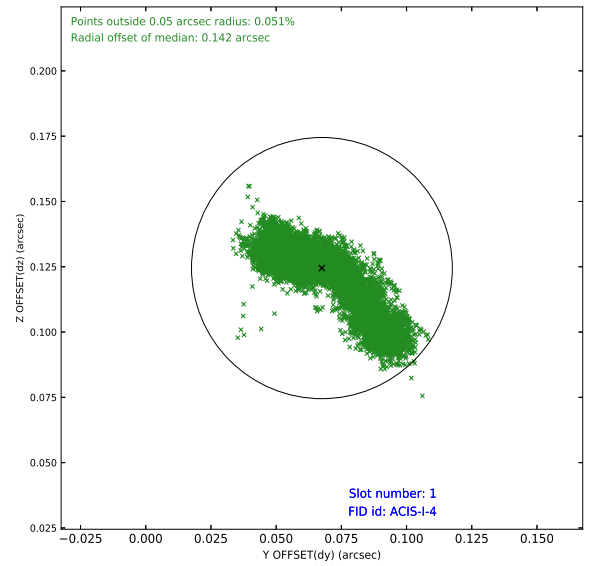
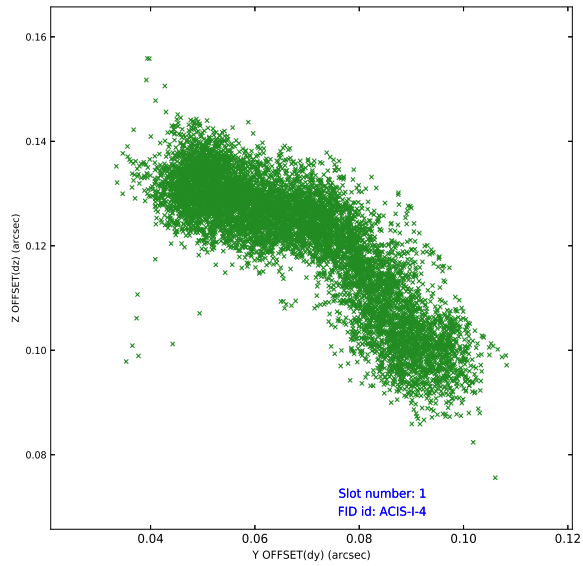


2.5 FID Slots

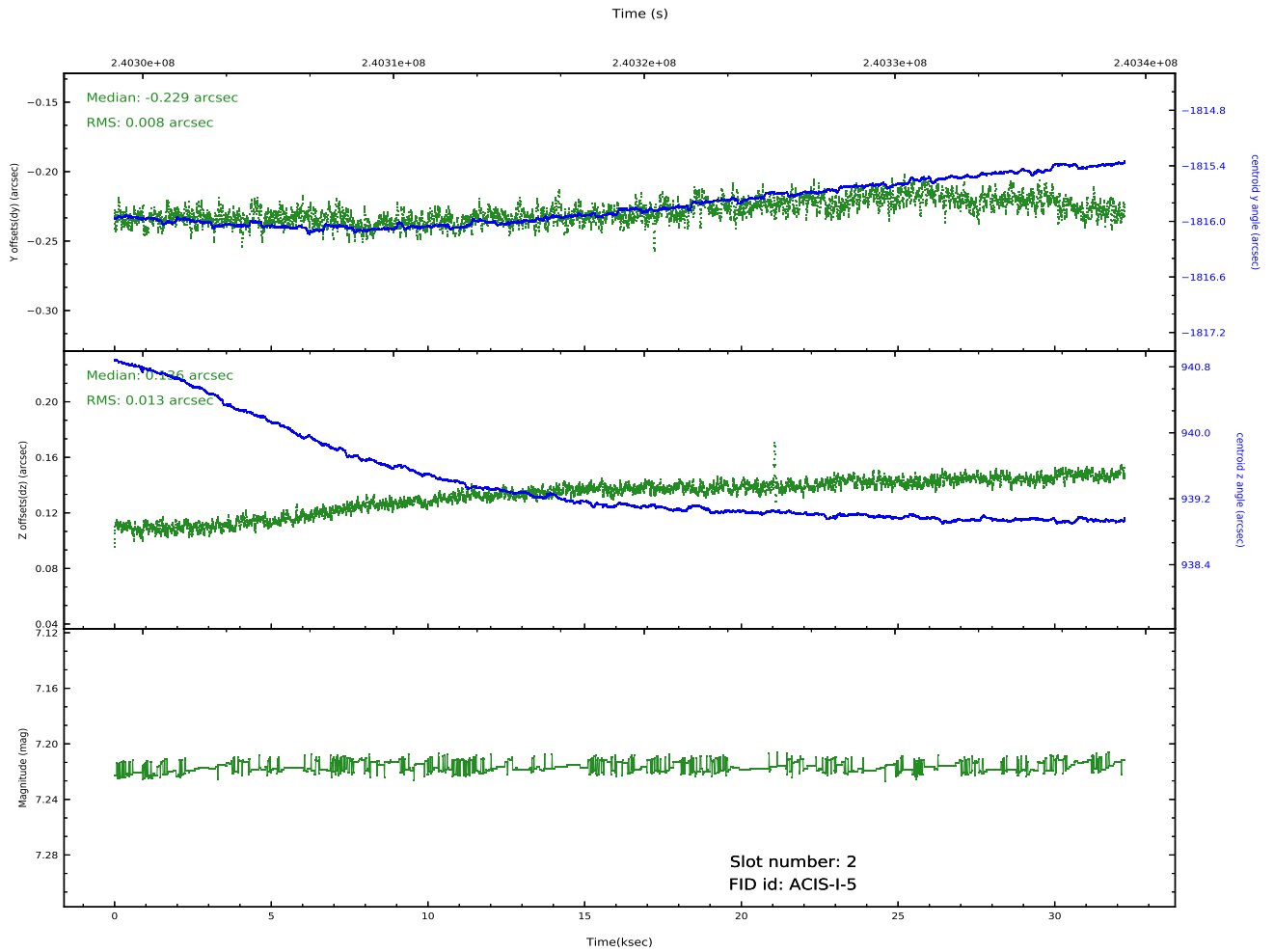
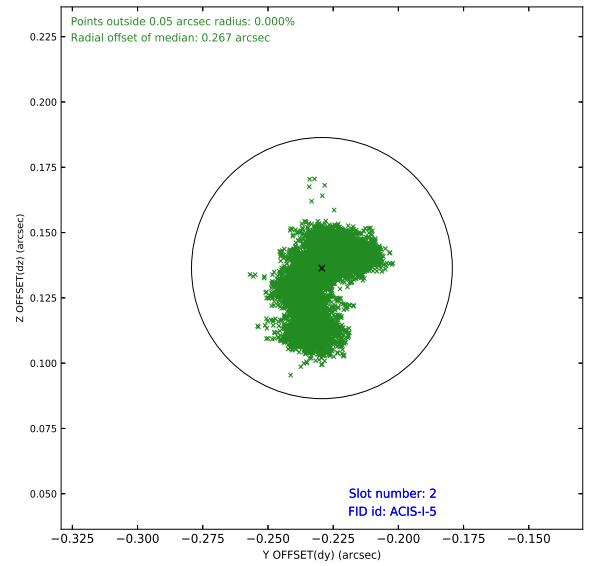
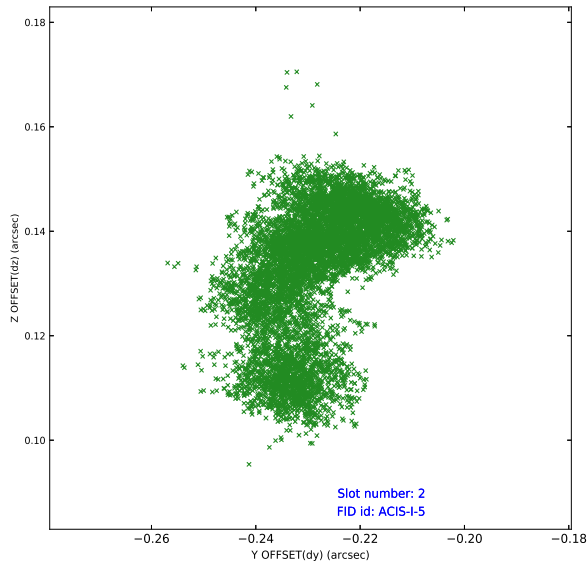
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.22135

A.2 Comments