

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4494 - L2 Version 4  
Chandra X-Ray Center

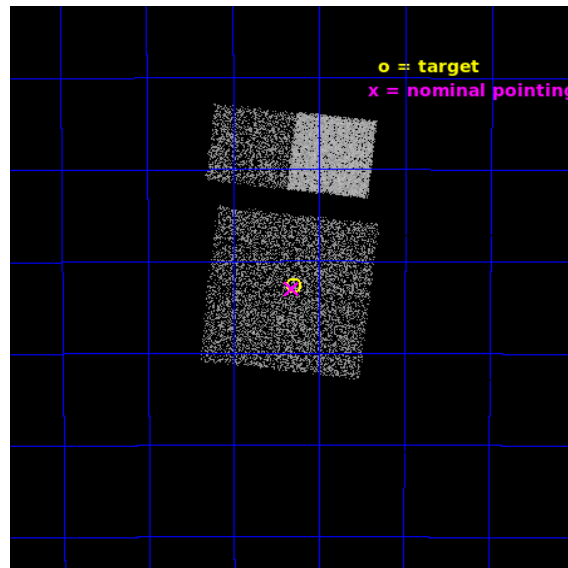
L2 Processing Date : Sep 22 2020

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# 1 Front

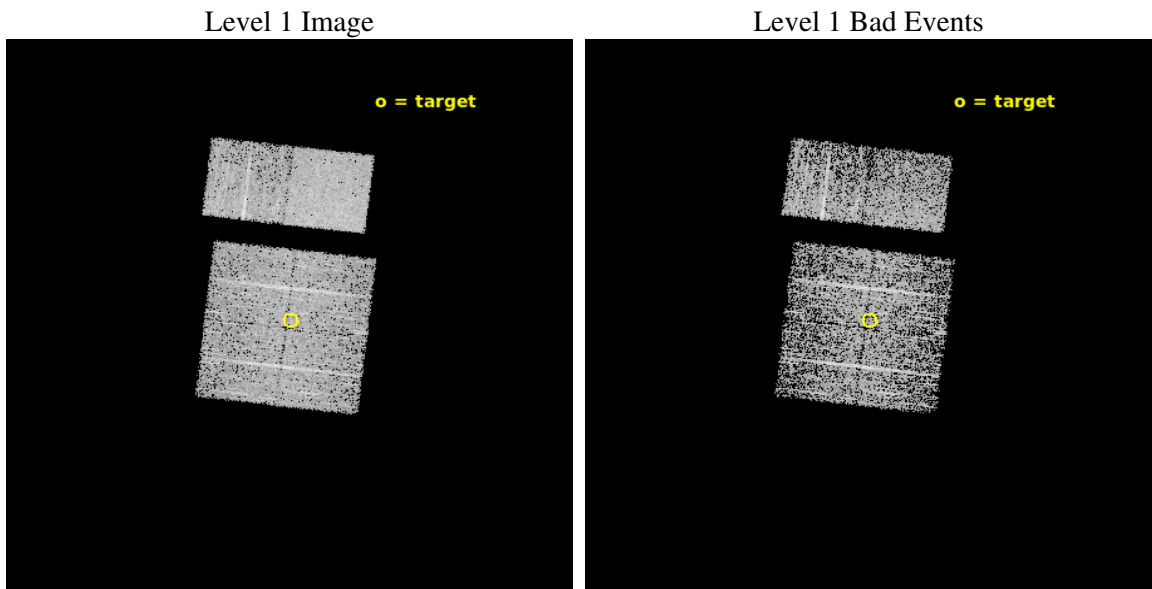
seq_num	200263	Sequence number
obs_id	4494	Observation id
title	Planet formation and the missing 10 Myr old stars	Proposal title
observer	Eric Feigelson	Principal investigator
object	HIP 46283	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.575	Observer's specified target RA [deg]
dec_targ	-53.378889	Observer's specified target Dec [deg]
ra_nom	141.57955286169	Nominal RA [deg]
dec_nom	-53.383650607495	Nominal Dec [deg]
roll_nom	6.6913122090423	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3276.1383440495	Sum of GTIs [s]
livetime	3234.6539076834	Livetime [s]
ontime0	3276.0152240694	Sum of GTIs [s]
ontime1	3276.0562640429	Sum of GTIs [s]
ontime2	3276.0973040462	Sum of GTIs [s]
ontime3	3276.1383440495	Sum of GTIs [s]
ontime6	3276.2204240561	Sum of GTIs [s]
ontime7	3276.1793840528	Sum of GTIs [s]
l2events	21605	Number of level 2 events



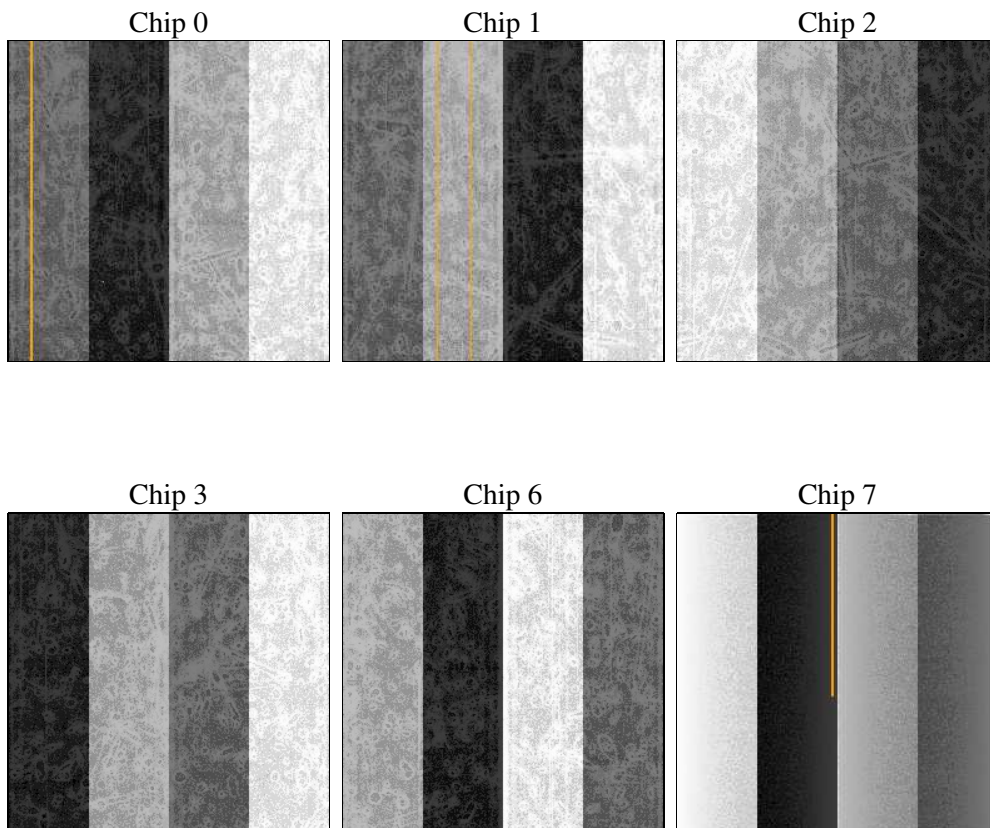
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3152.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3276.1383440495	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	3276.0152240694	Sum of GTIs [s]
date	2020-09-23T01:30:05	Date and time of file creation	ontime1	3276.0562640429	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3276.0973040462	Sum of GTIs [s]
			ontime3	3276.1383440495	Sum of GTIs [s]
			ontime6	3276.2204240561	Sum of GTIs [s]
			ontime7	3276.1793840528	Sum of GTIs [s]
			l1events	123567	Number of level 1 events

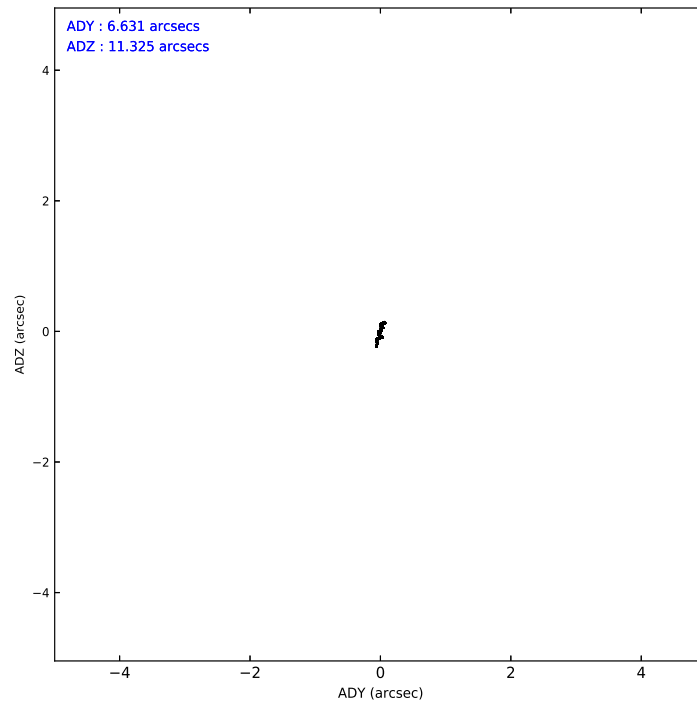
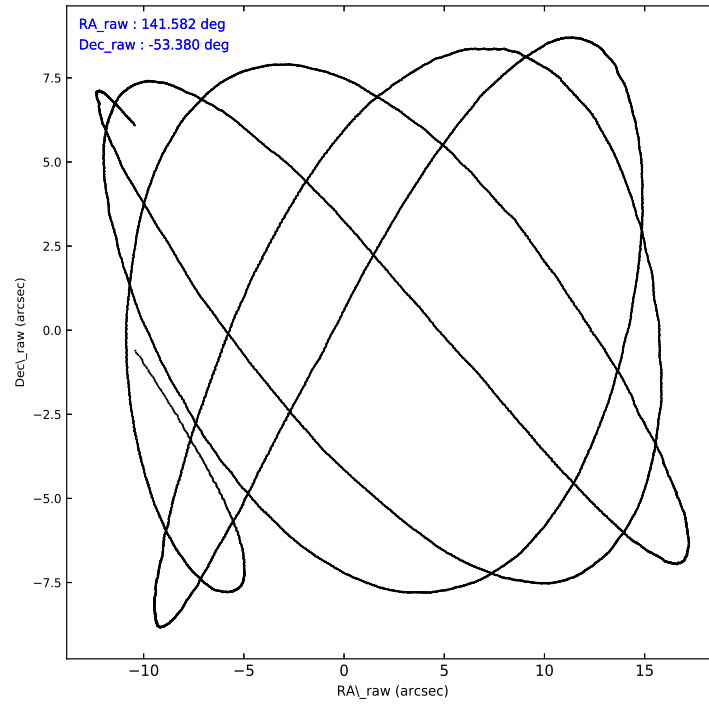
### 2.1.4 Events

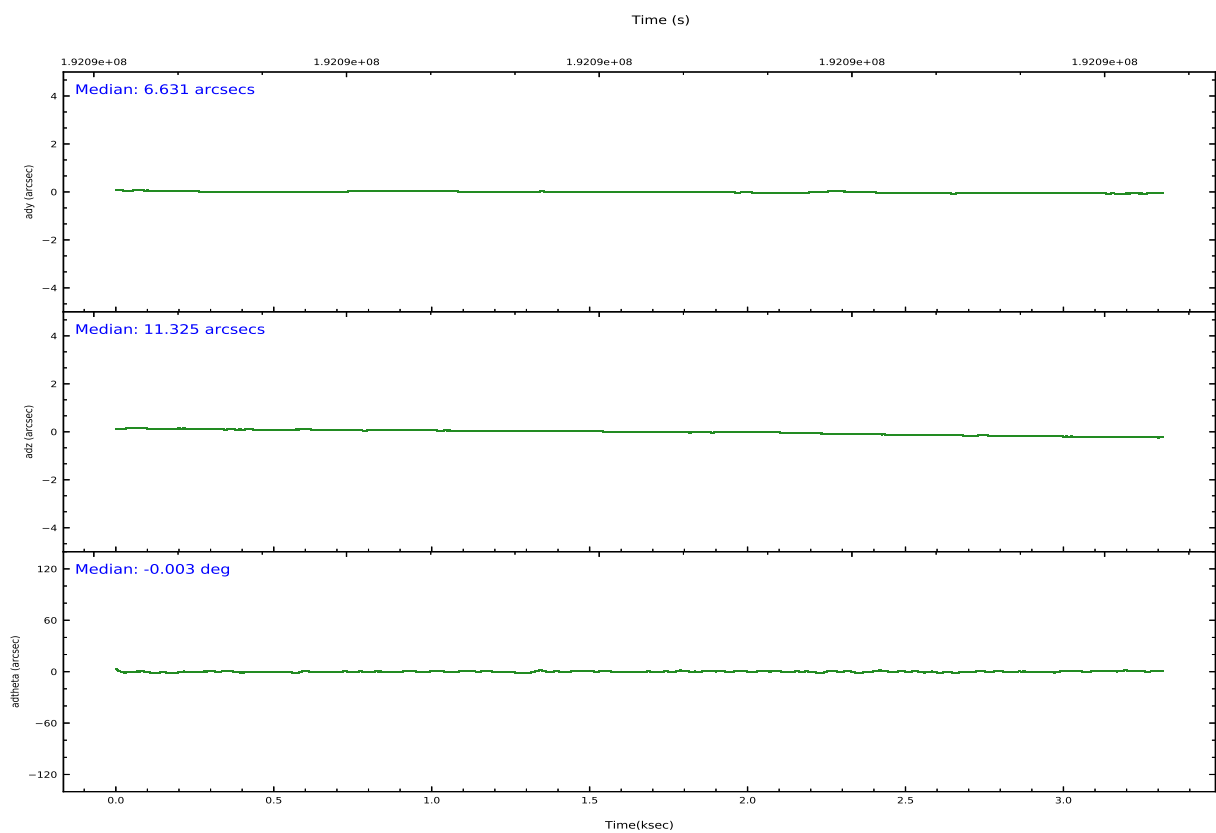
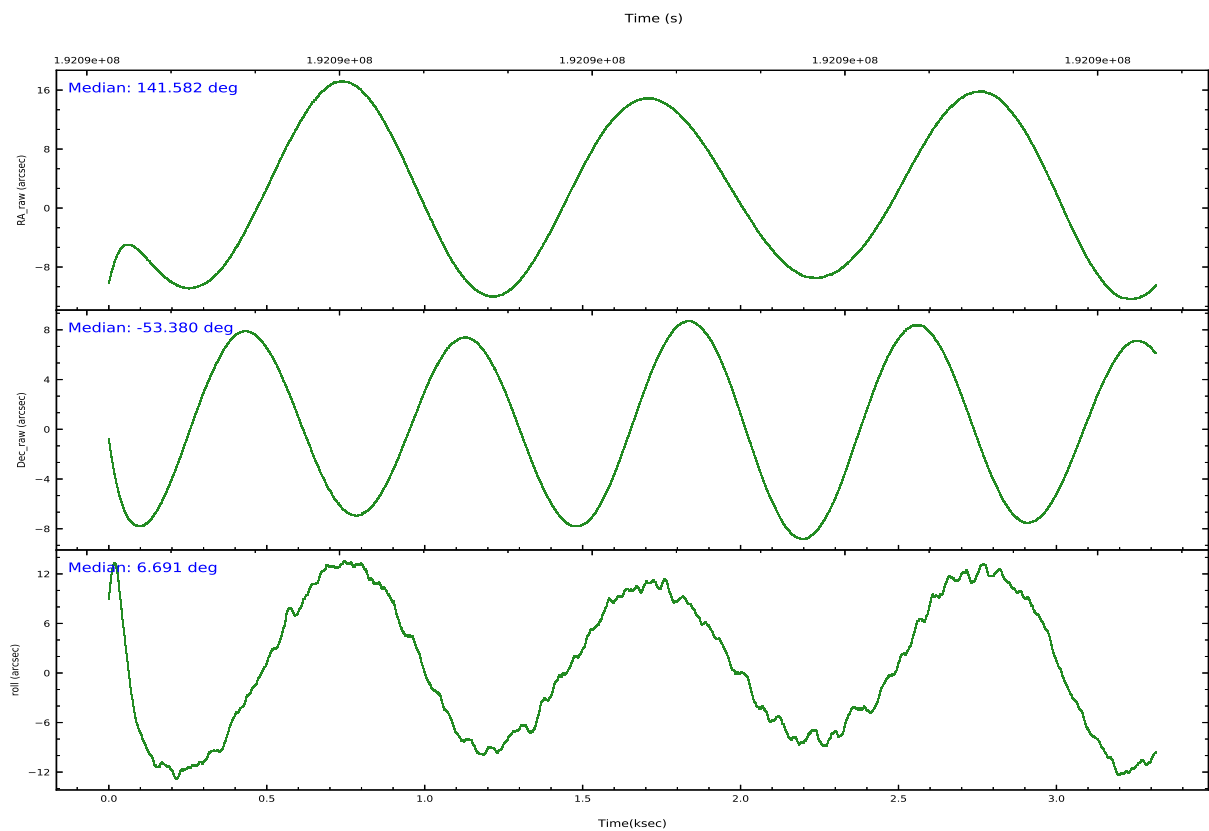
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18125	18653	18899	19494	20894	27502	grade 0 events	1067	1042	1069	1173	990	1008
rejected events	15686	16077	16594	17026	18454	16196		5%	5%	5%	6%	4%	3%
rejected %	86%	86%	87%	87%	88%	58%	grade 1 events	11	6	14	13	13	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	522	557	440	466	480	2219
								2%	2%	2%	2%	2%	8%
							grade 3 events	242	251	196	220	218	1037
								1%	1%	1%	1%	1%	3%
							grade 4 events	204	248	198	217	250	1038
								1%	1%	1%	1%	1%	3%
							grade 5 events	796	805	749	892	946	2591
								4%	4%	3%	4%	4%	9%
							grade 6 events	405	479	405	395	502	6016
								2%	2%	2%	2%	2%	21%
							grade 7 events	14878	15265	15828	16118	17495	13564
								82%	81%	83%	82%	83%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	141.545753	141.57955286169	Subarray requested	NONE	NONE
[deg] Pointing Dec	-53.396633	-53.383650607495	Alternating exposures requested	N	N
[deg] Pointing Roll	6.458538	6.6913122090423	[s] Primary exposure time	0.000000	3.2
[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)	192091435.184000	192090394.6695			
Observation start date	2004-02-02T06:42:51	2004-02-02T06:26:34			
[s] Observation end time (MET)	192094587.184000	192095534.53223			
Observation end date	2004-02-02T07:35:23	2004-02-02T07:52:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect





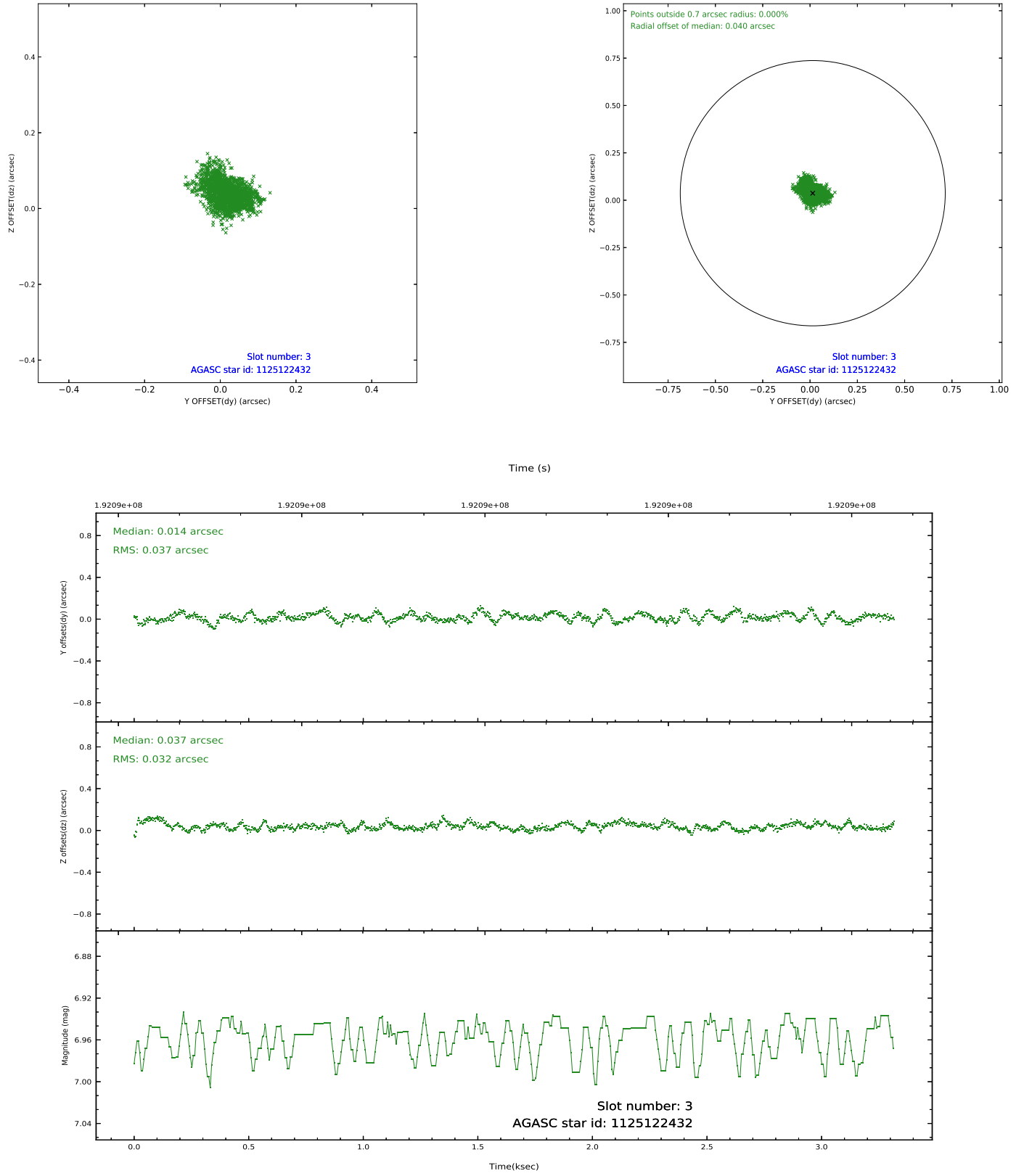
Slot Statistics

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	809	1.000	-0.097	-0.137	0.009	0.017	0.000000	0.000000	-761.18	-841
1	FID		ACIS-I-4	7.18	809	1.000	0.145	0.095	0.006	0.011	0.000000	0.000000	2152.21	1064
2	FID		ACIS-I-5	7.23	809	1.000	-0.150	0.111	0.009	0.015	0.000000	0.000000	-1812.64	1064
3	GUIDE	used	1125122432	6.96	1619	1.000	0.014	0.037	0.052	0.085	141.989062	-53.517300	894.58	-541
4	GUIDE	used	1125127376	7.84	1619	1.000	0.054	-0.107	0.070	0.114	140.779490	-52.885819	-1447.08	2005
5	GUIDE	used	1125134696	8.31	1619	1.000	-0.051	0.075	0.054	0.085	142.058153	-53.920695	867.32	-1999
6	GUIDE	used	1125138832	9.19	1619	1.000	0.013	0.002	0.073	0.115	141.946612	-53.143478	963.71	804
7	GUIDE	used	1125140952	7.09	1618	1.000	-0.032	-0.004	0.052	0.083	141.490275	-53.839526	-294.74	-1570

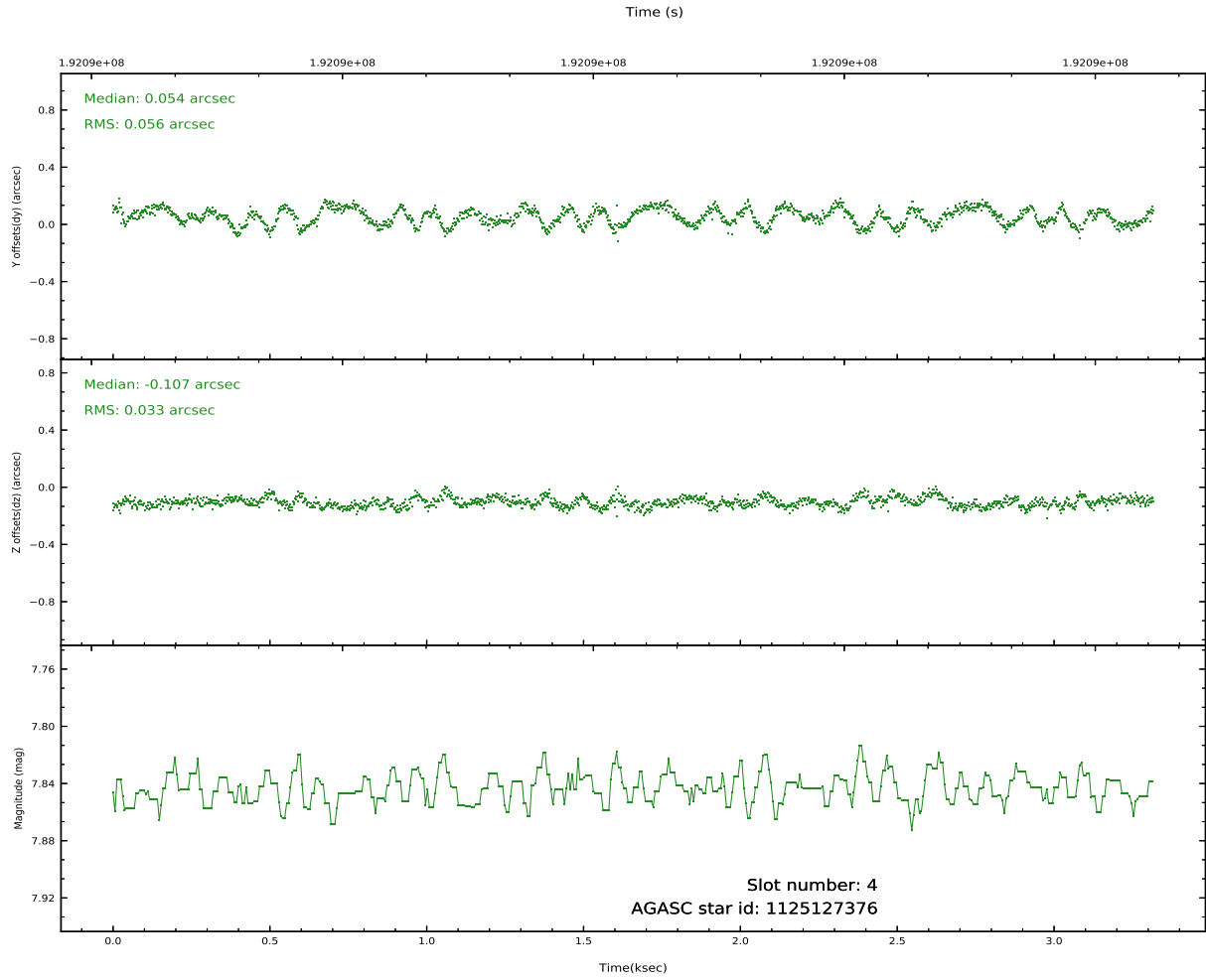
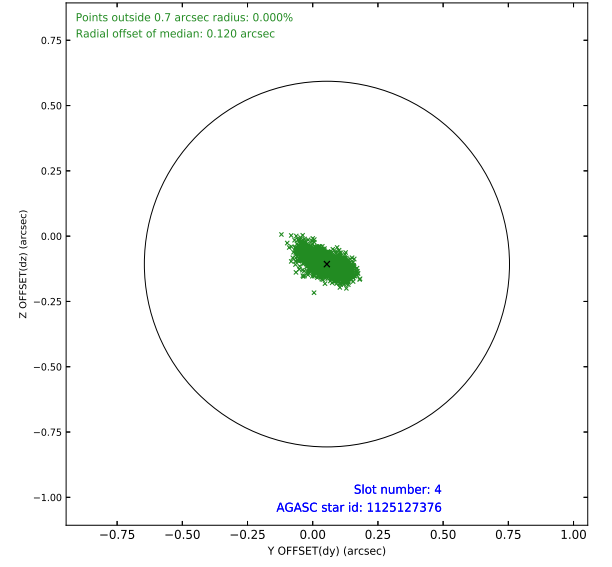
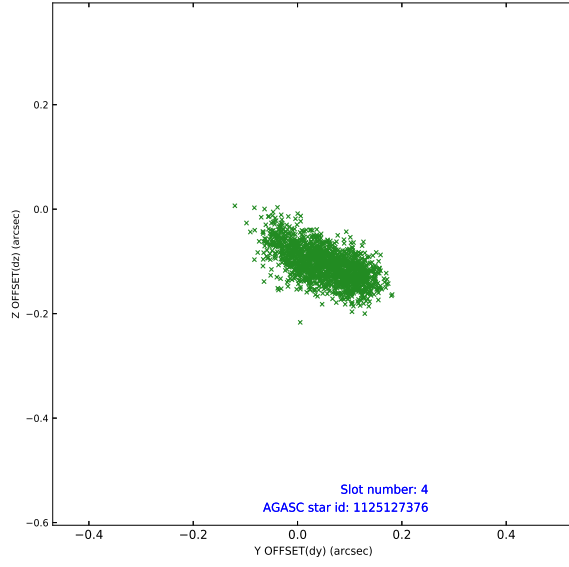


## 2.4 Star Slots

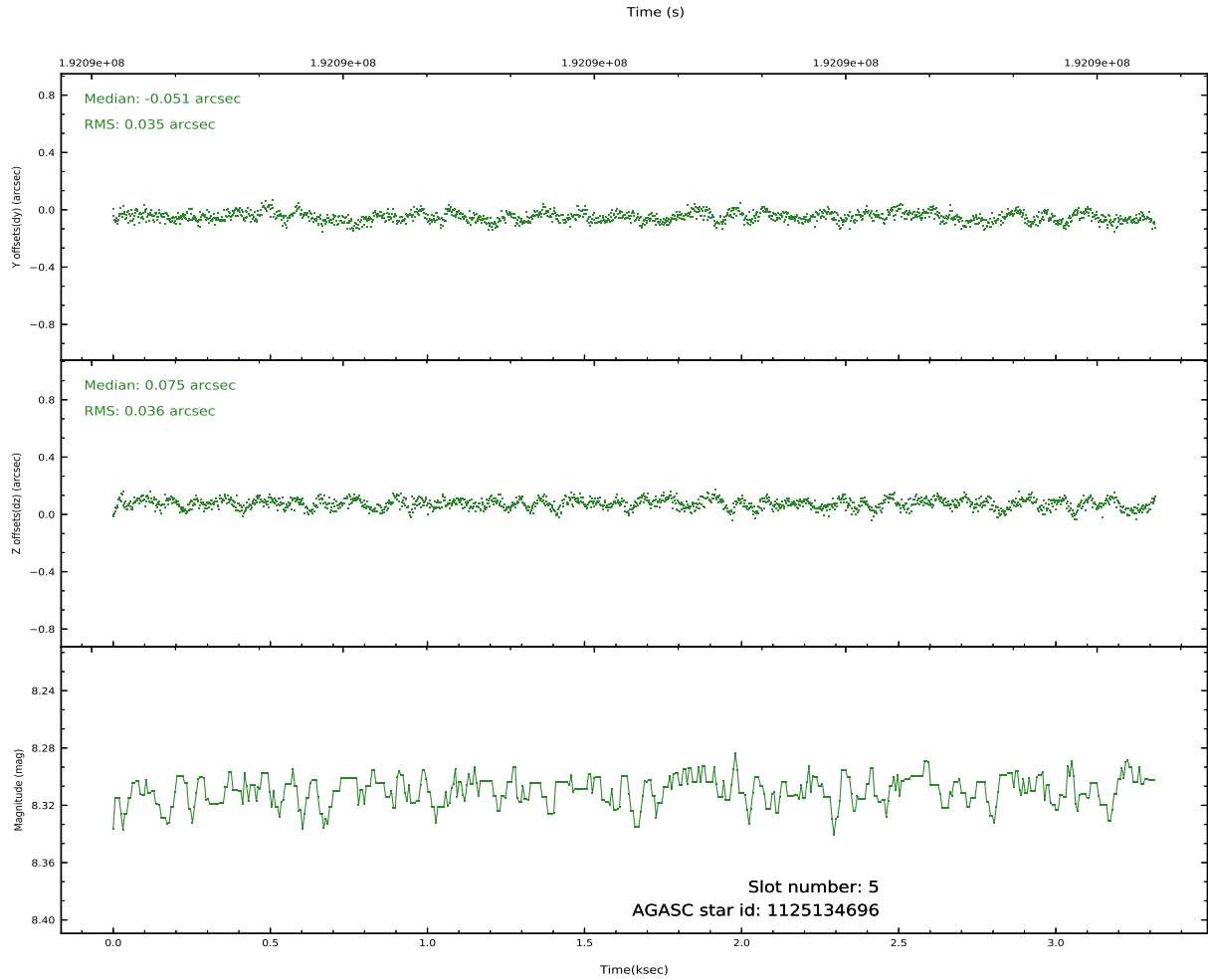
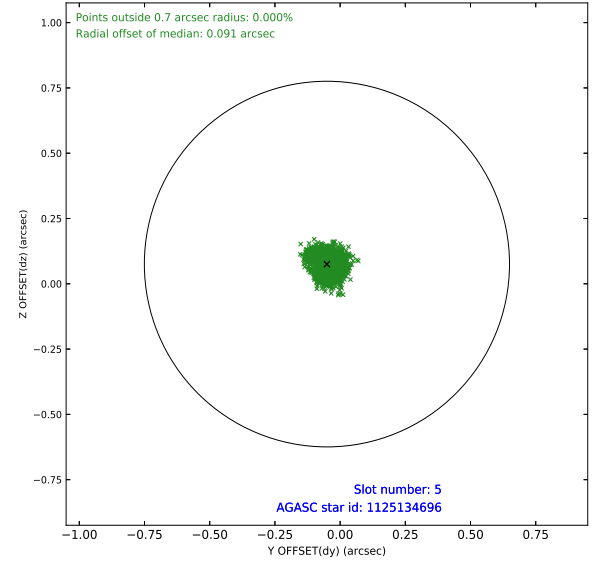
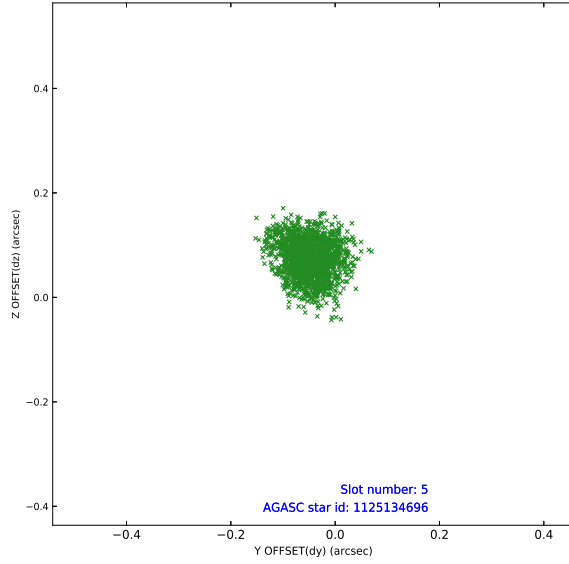
### 2.4.1 Slot 3



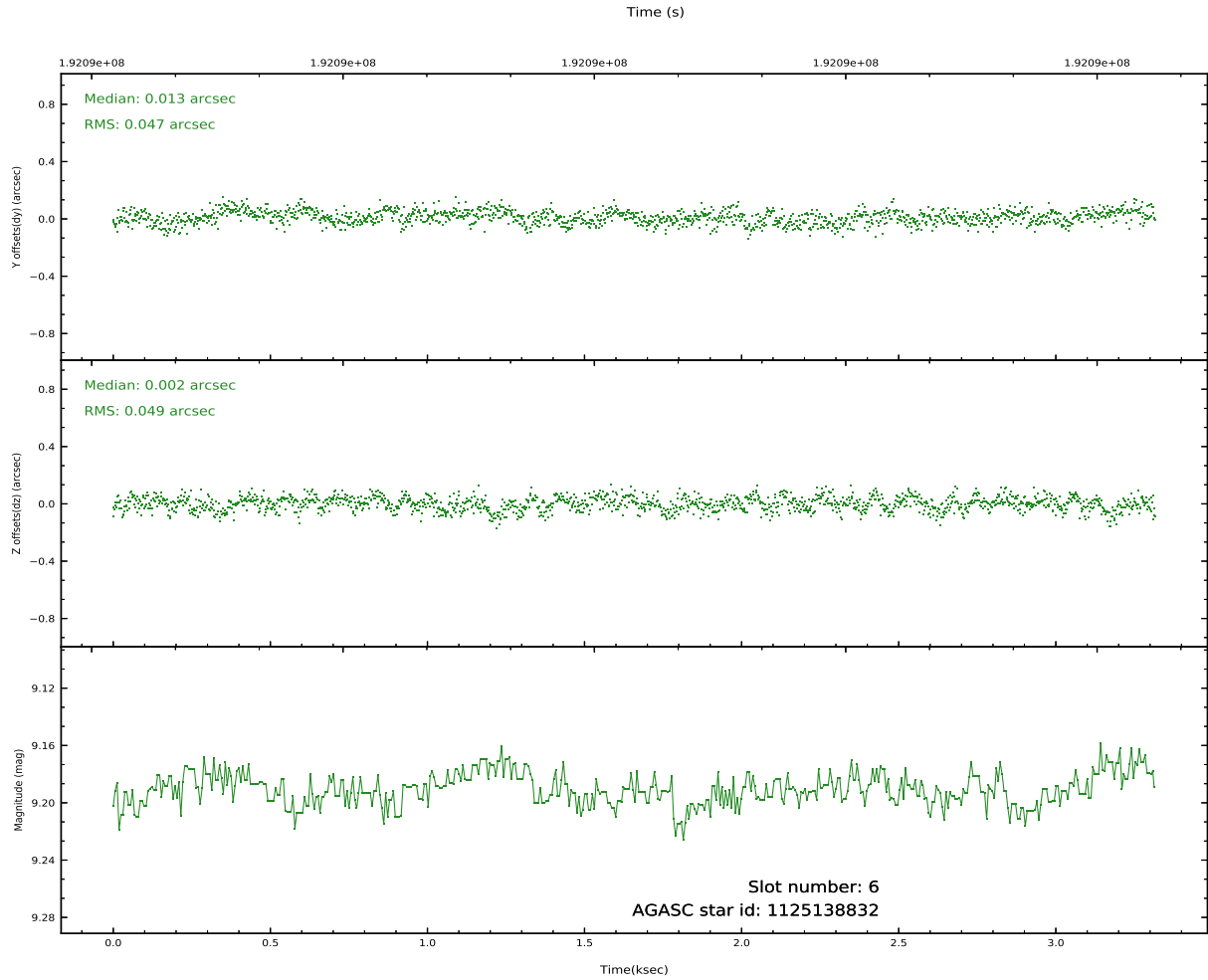
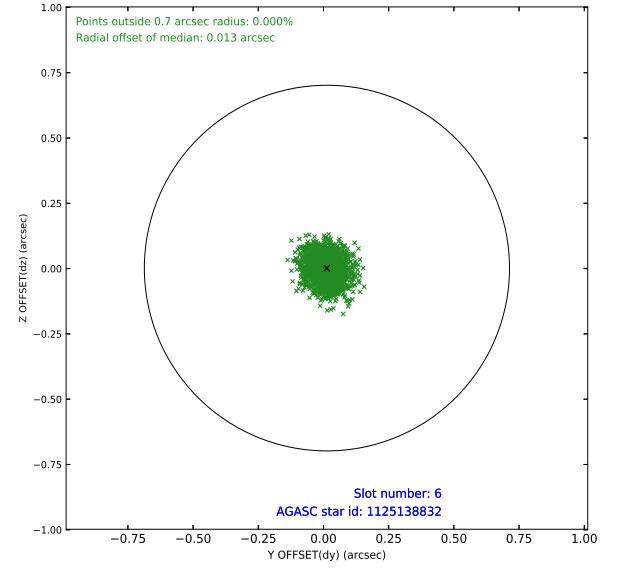
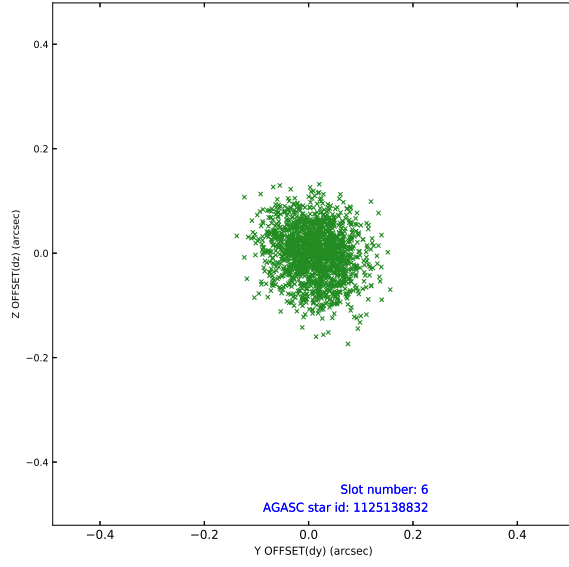
## 2.4.2 Slot 4



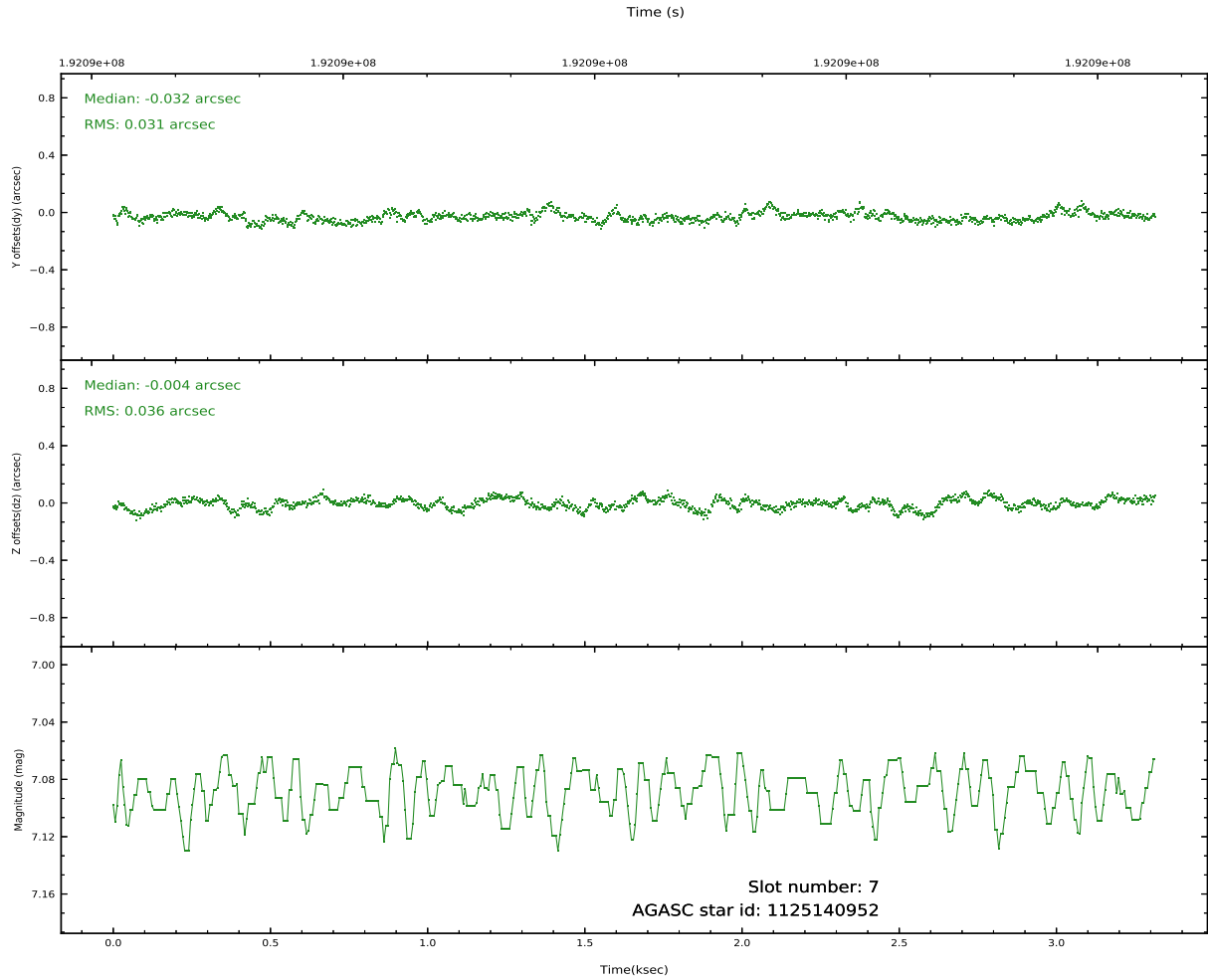
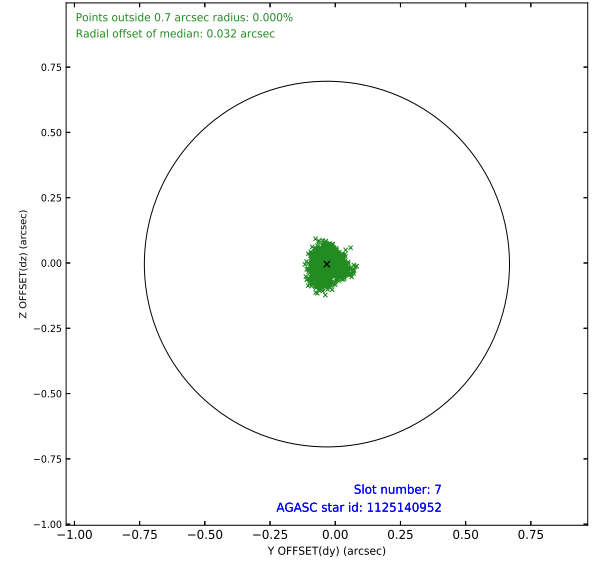
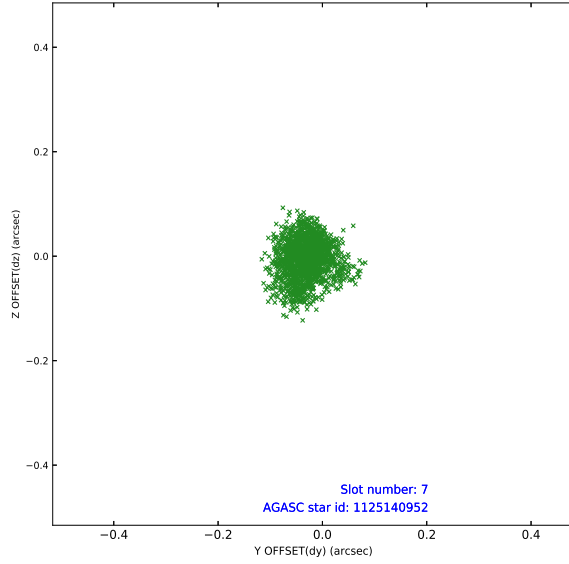
### 2.4.3 Slot 5



## 2.4.4 Slot 6

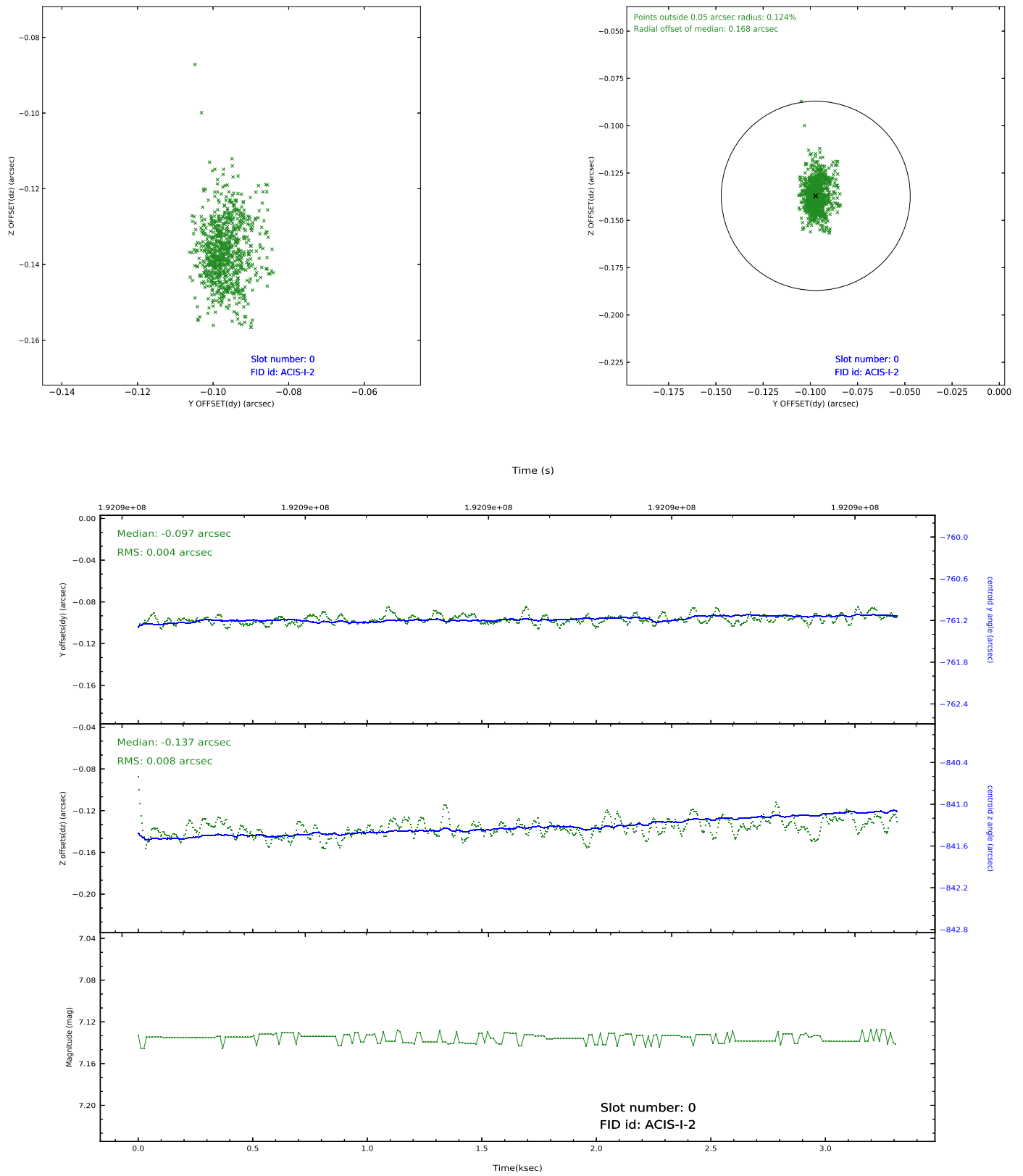


## 2.4.5 Slot 7

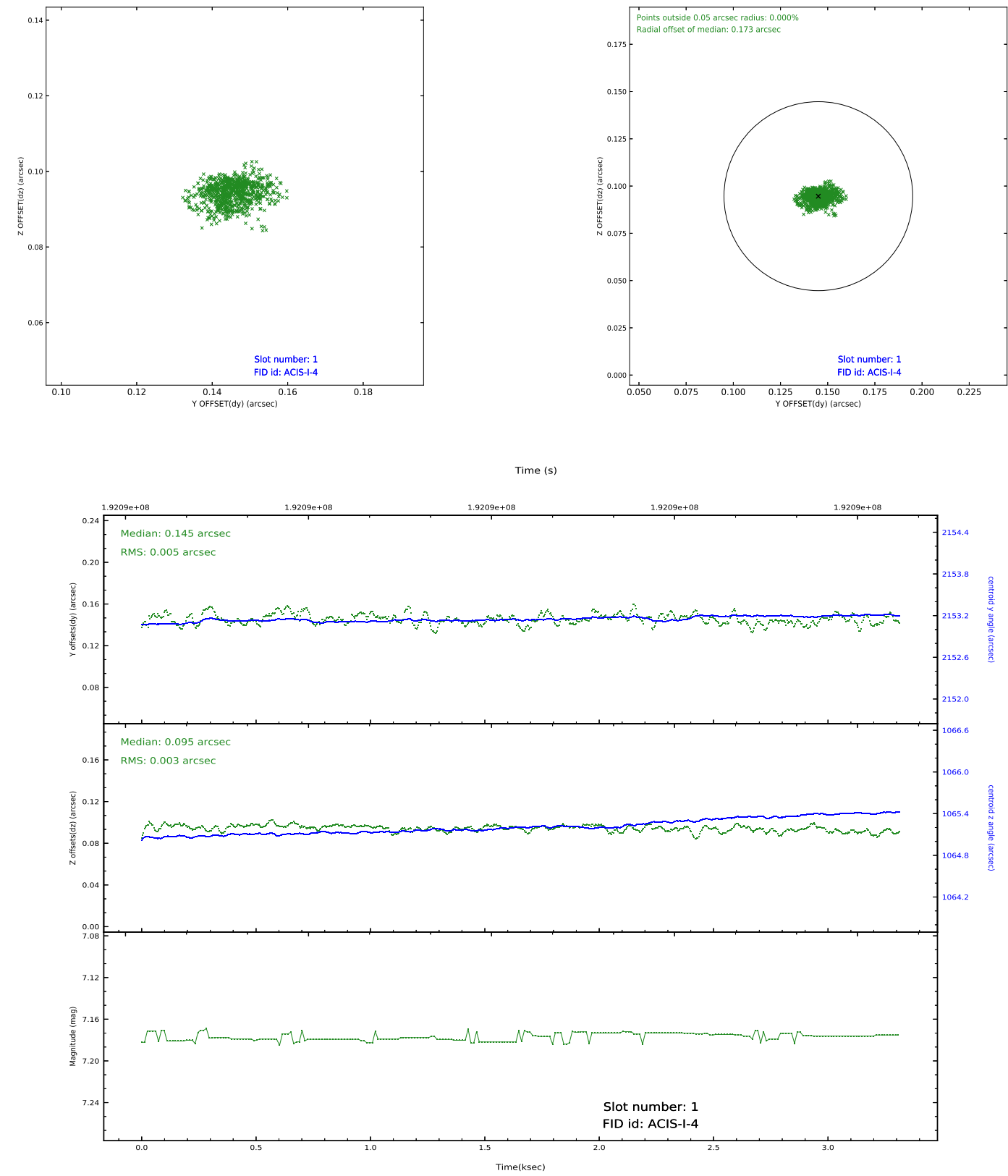


## 2.5 FID Slots

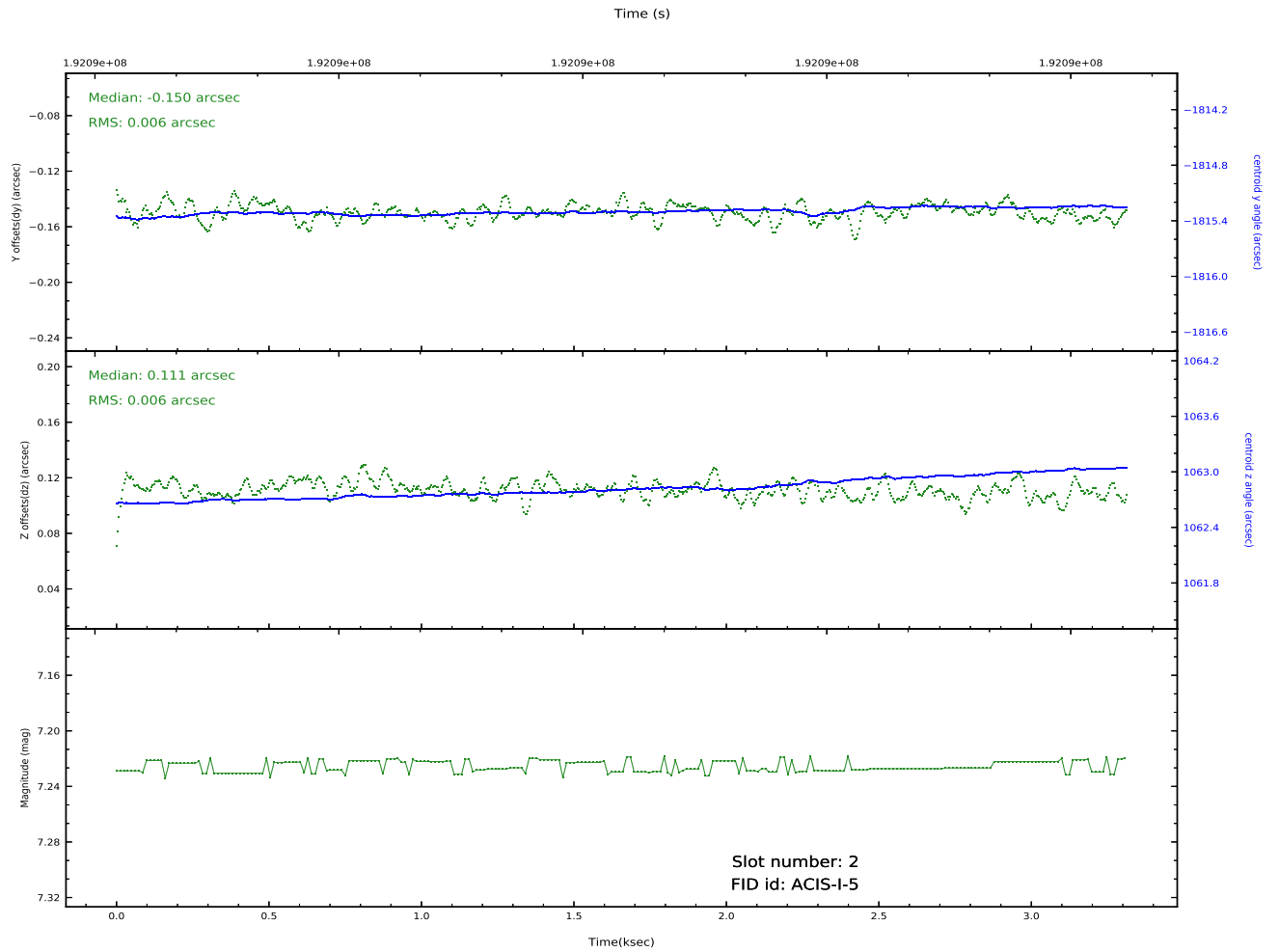
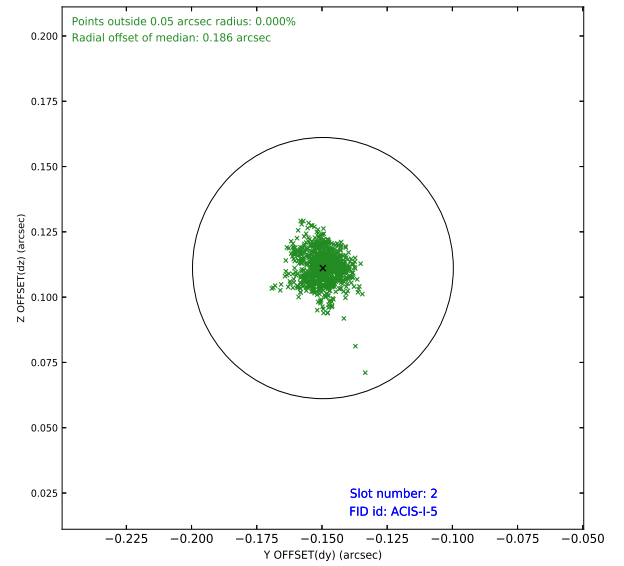
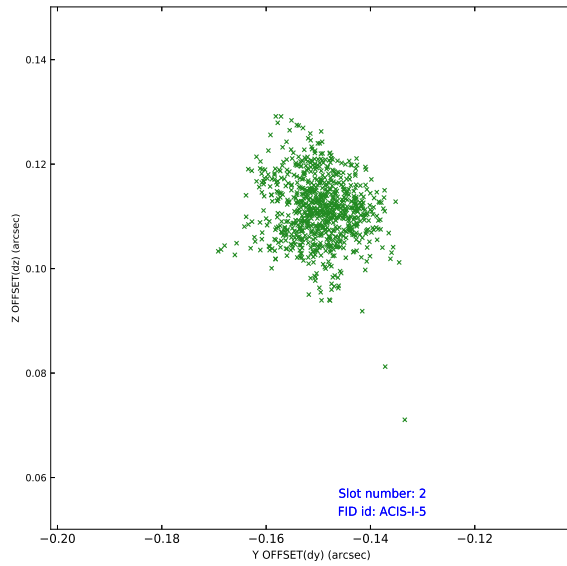
### 2.5.1 Slot 0



2.5.2 Slot 1



## 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.276

### A.2 Comments