

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5635 - L2 Version 4  
Chandra X-Ray Center

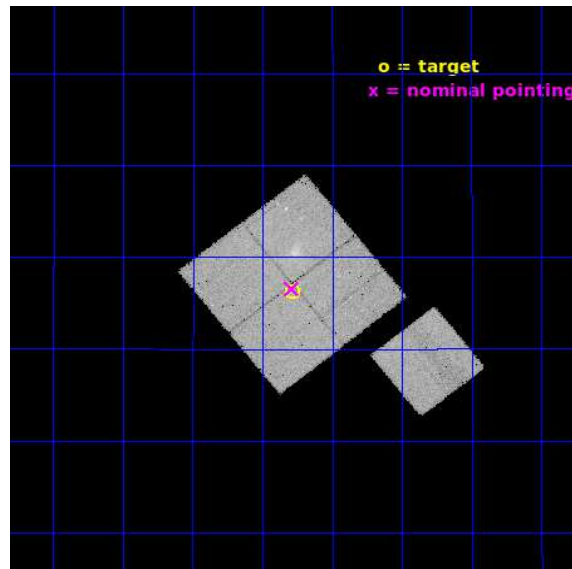
L2 Processing Date : Oct 9 2020

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# 1 Front

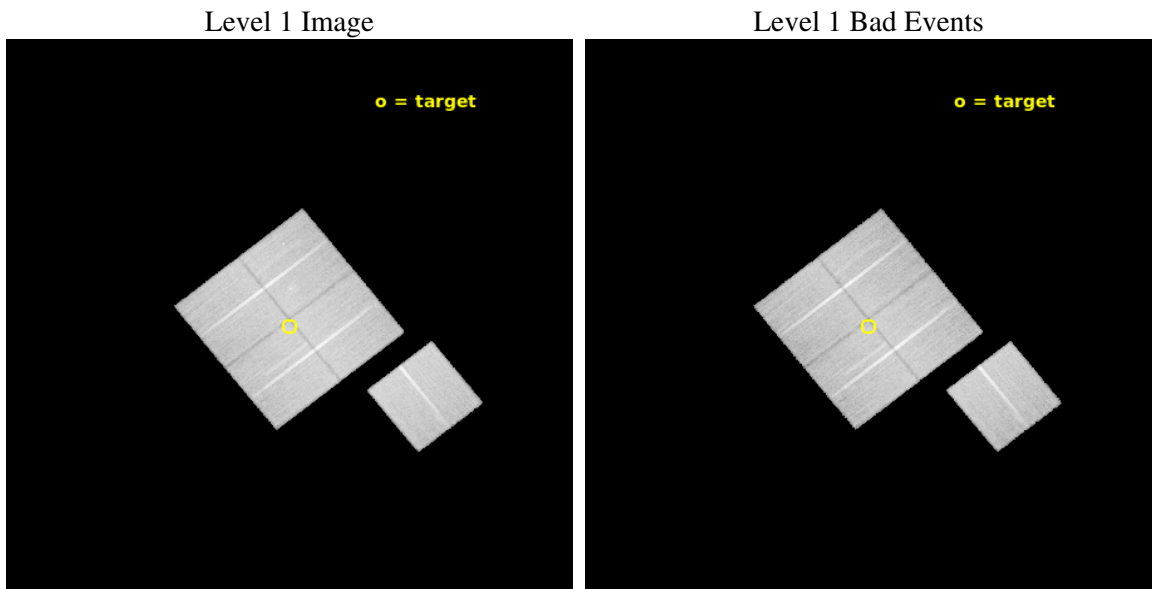
seq_num	701058	Sequence number
obs_id	5635	Observation id
title	A Chandra Study of Two Nearby, Powerful Radio Galaxies in Poor Environments	Proposal title
observer	Ralph Kraft	Principal investigator
object	3C 442A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	333.695833	Observer's specified target RA [deg]
dec_targ	13.77111	Observer's specified target Dec [deg]
ra_nom	333.69716954908	Nominal RA [deg]
dec_nom	13.776142592321	Nominal Dec [deg]
roll_nom	141.50399935859	Nominal Roll [deg]
revision	4	Processing version of data
ontime	27363.658957094	Sum of GTIs [s]
livetime	27006.132607987	Livetime [s]
ontime0	27366.799947351	Sum of GTIs [s]
ontime1	27363.658937186	Sum of GTIs [s]
ontime2	27360.517966837	Sum of GTIs [s]
ontime3	27363.658957094	Sum of GTIs [s]
ontime6	27363.658937156	Sum of GTIs [s]
l2events	149388	Number of level 2 events



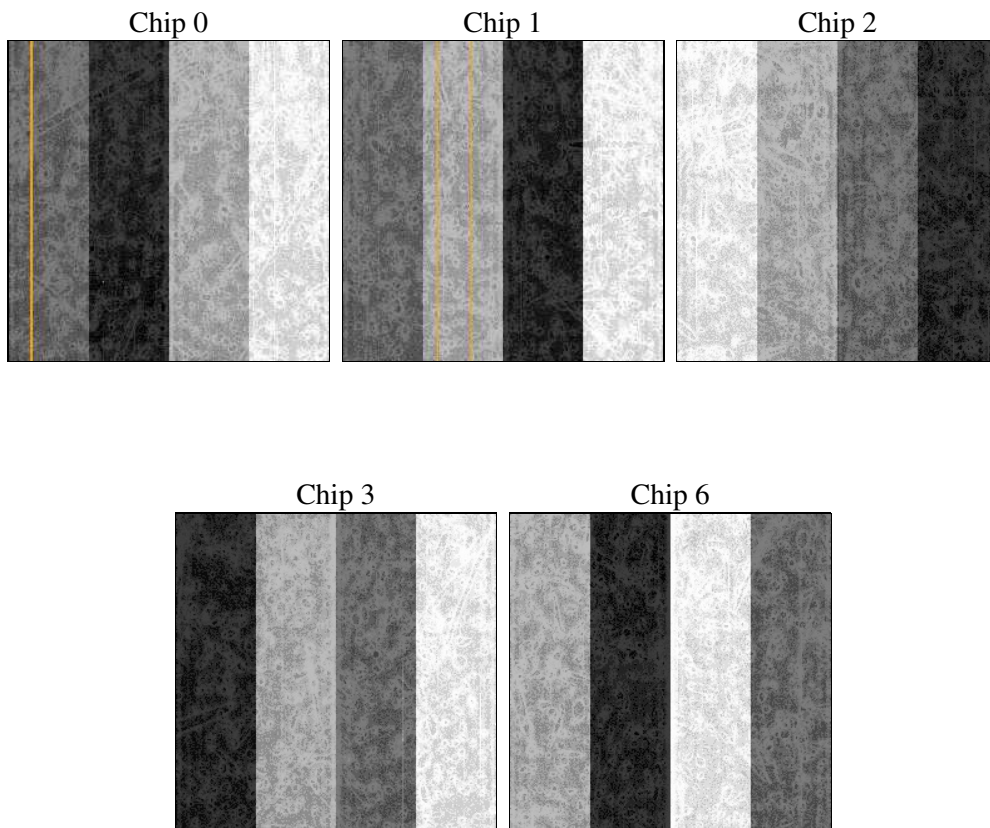
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	27192.345000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	27363.658957094	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	27366.799947351	Sum of GTIs [s]
date	2020-10-09T14:28:47	Date and time of file creation	ontime1	27363.658937186	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	27360.517966837	Sum of GTIs [s]
			ontime3	27363.658957094	Sum of GTIs [s]
			ontime6	27363.658937156	Sum of GTIs [s]
			l1events	1159072	Number of level 1 events

### 2.1.4 Events

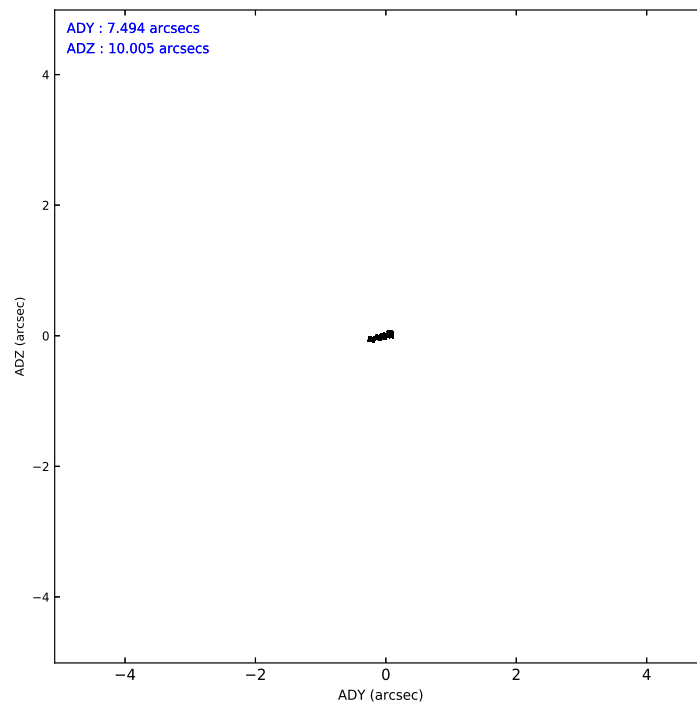
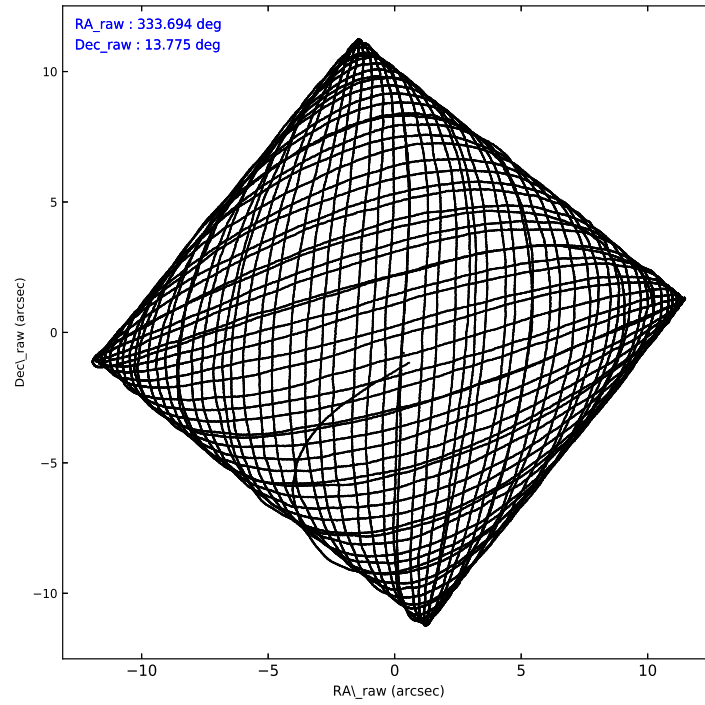
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	224757	219755	241773	236423	236364
rejected events	186566	184677	208009	203963	205250
rejected %	83%	84%	86%	86%	86%

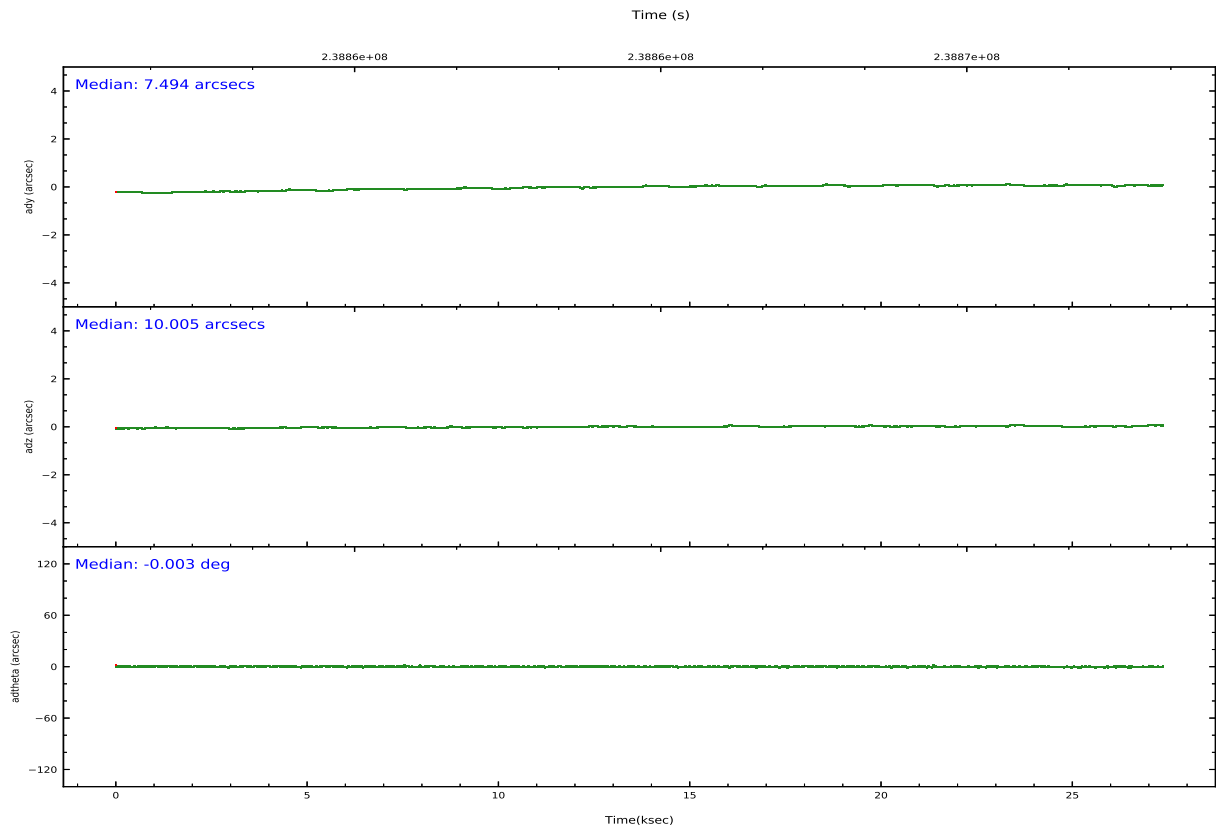
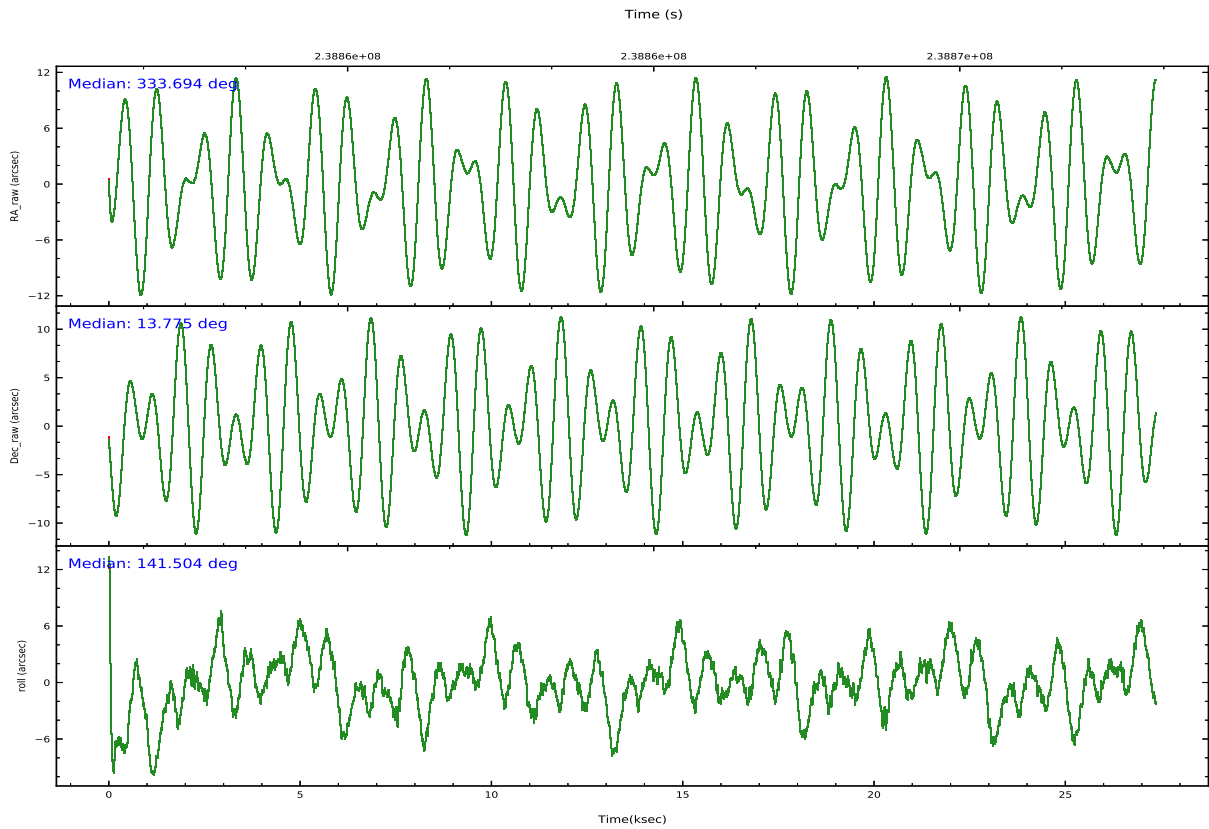
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	20138	15996	17369	16227	13773
	8%	7%	7%	6%	5%
grade 1 events	202	141	197	183	120
	0%	0%	0%	0%	0%
grade 2 events	7530	7831	6664	6266	6669
	3%	3%	2%	2%	2%
grade 3 events	3186	3092	2969	2850	2842
	1%	1%	1%	1%	1%
grade 4 events	2973	3056	2994	2958	2743
	1%	1%	1%	1%	1%
grade 5 events	9396	9727	8982	10369	10471
	4%	4%	3%	4%	4%
grade 6 events	5788	6584	5220	5559	6486
	2%	2%	2%	2%	2%
grade 7 events	175544	173328	197378	192011	193260
	78%	78%	81%	81%	81%

## 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	333.721449	333.69716954908	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.771246	13.776142592321	Alternating exposures requested	N	N
[deg] Pointing Roll	141.293904	141.50399935859	[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)	238849939.184000	238848344.00153			
Observation start date	2005-07-27T11:11:15	2005-07-27T10:45:44			
[s] Observation end time (MET)	238877132.184000	238878496.94041			
Observation end date	2005-07-27T18:44:28	2005-07-27T19:08:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect





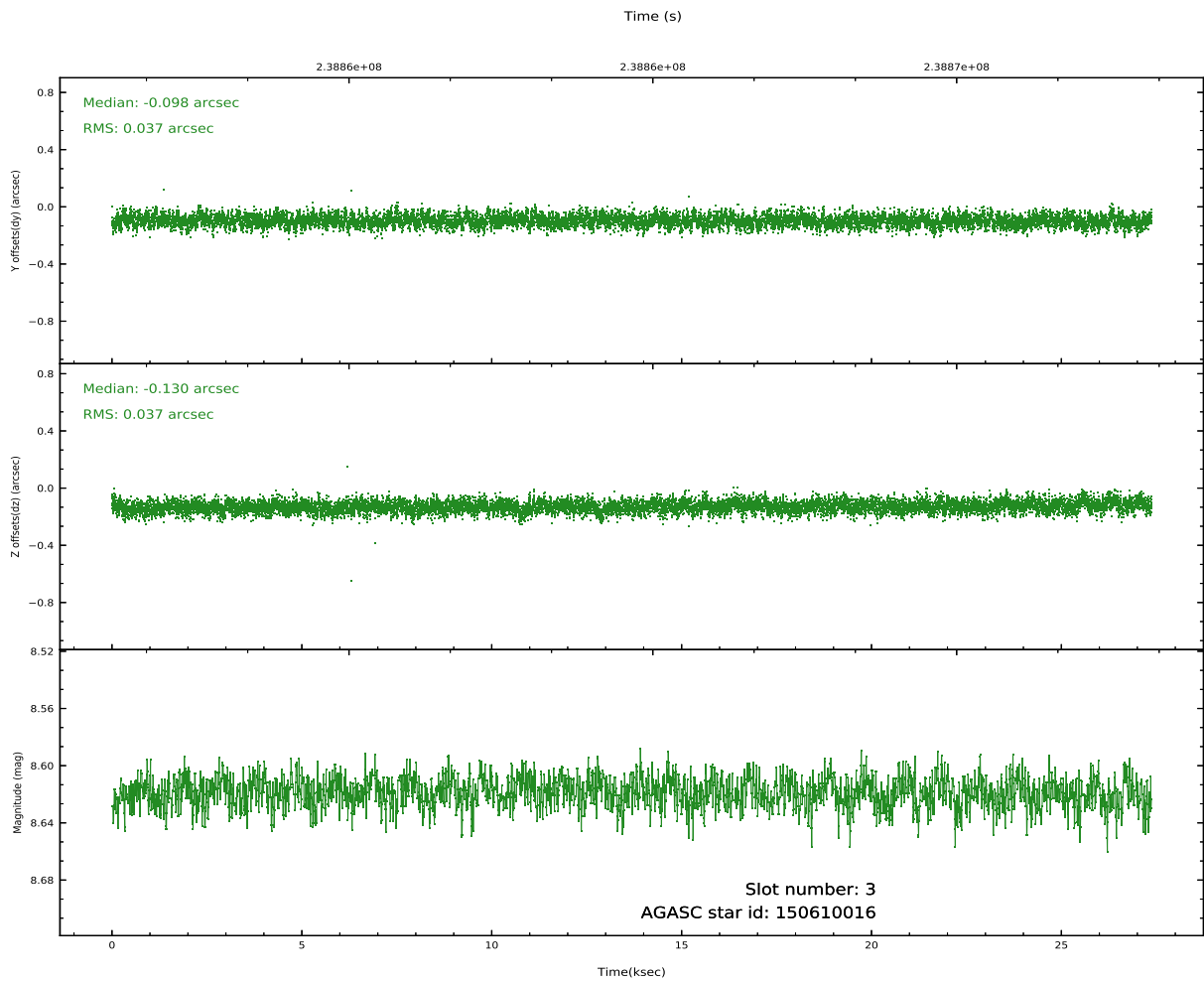
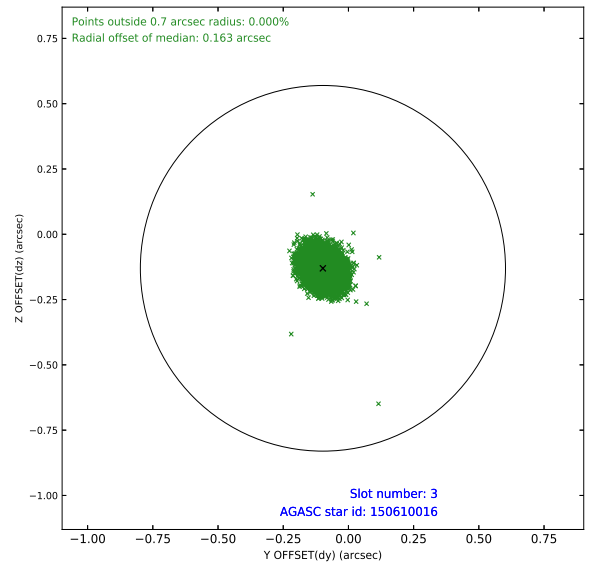
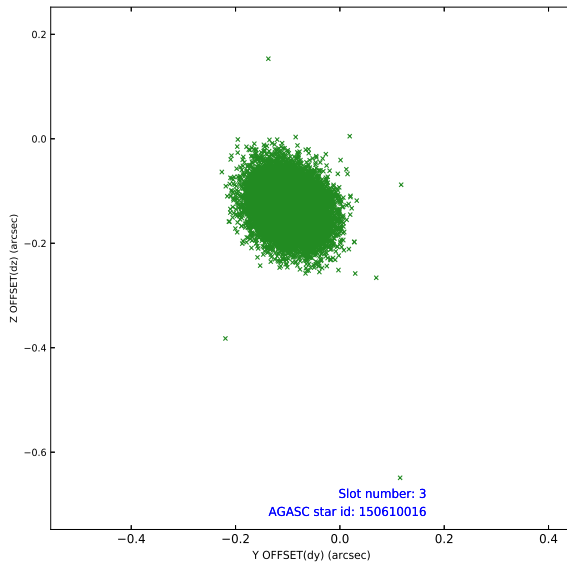
### Slot Statistics

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	7.24	6677	1.000	0.023	-0.015	0.007	0.013	0.000000	0.000000	932.24	-833
1	FID		ACIS-I-5	7.23	6677	1.000	-0.213	0.023	0.007	0.013	0.000000	0.000000	-1816.08	1063
2	FID		ACIS-I-6	7.25	6676	1.000	0.099	0.062	0.007	0.012	0.000000	0.000000	397.72	1708
3	GUIDE	used	150610016	8.62	13349	1.000	-0.098	-0.130	0.056	0.091	333.607680	13.272180	-812.57	1651
4	GUIDE	used	150610304	6.76	13353	1.000	-0.022	0.069	0.043	0.068	334.517012	13.950326	-1763.08	-2244
5	GUIDE	used	150614840	8.69	13349	1.000	0.155	0.048	0.079	0.130	333.996804	13.803587	-677.81	-693
6	GUIDE	used	150606032	8.76	13307	1.000	-0.078	-0.089	0.069	0.113	333.468551	13.881130	937.44	244
7	GUIDE	used	150605048	8.31	13352	1.000	0.040	0.107	0.066	0.107	334.582600	13.956006	-1928.02	-2404

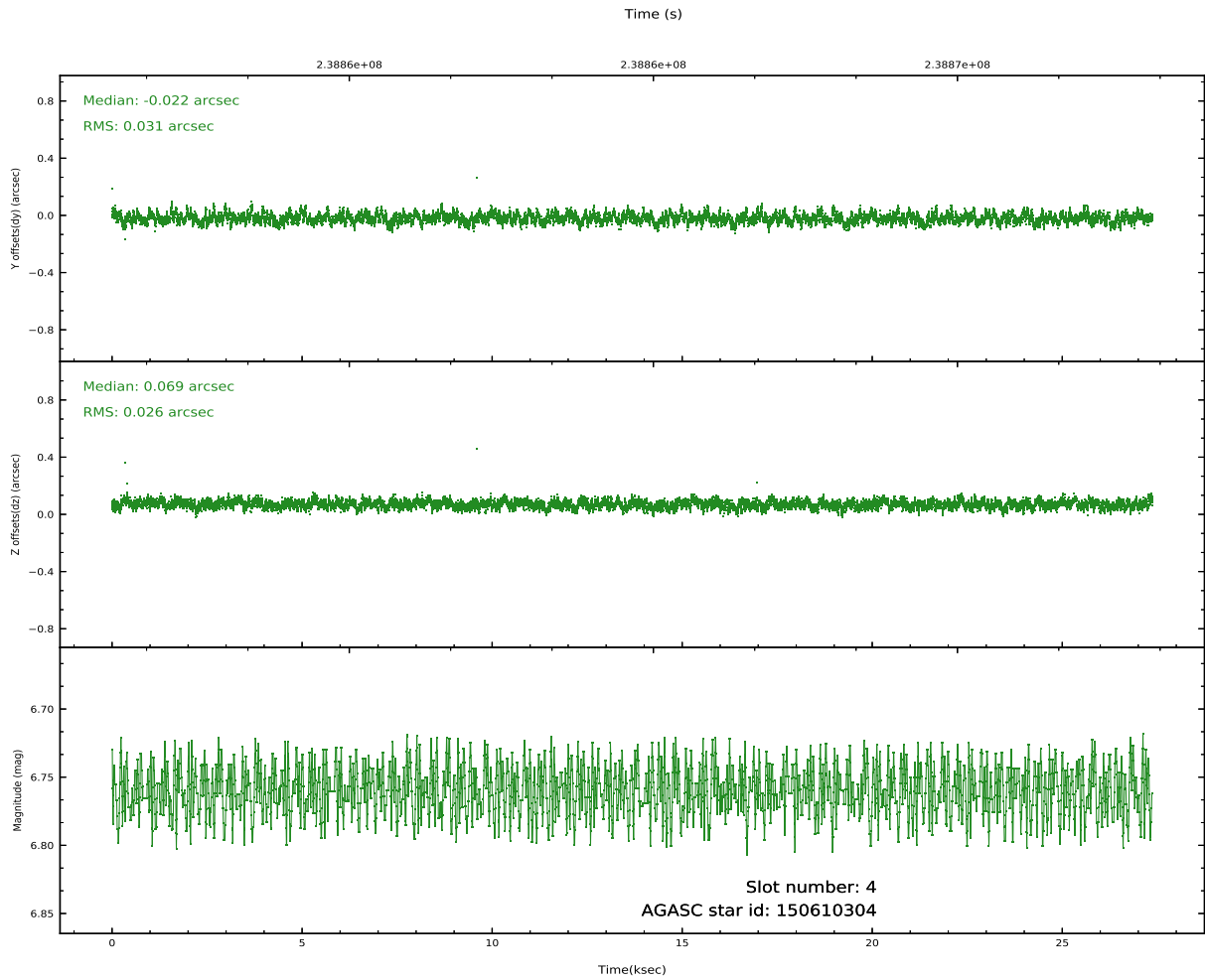
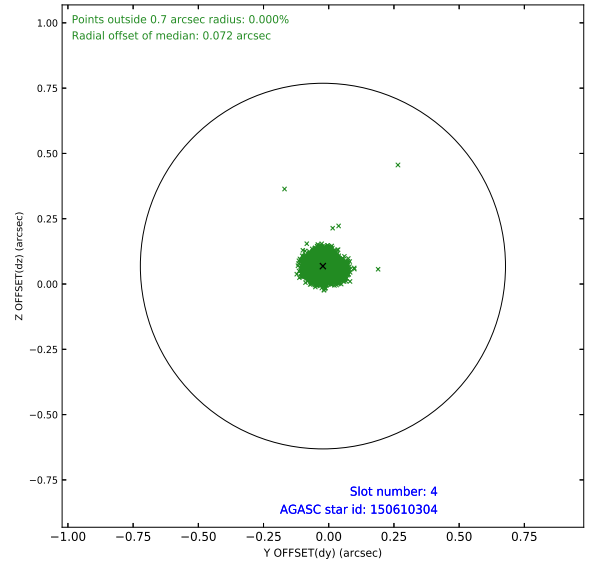
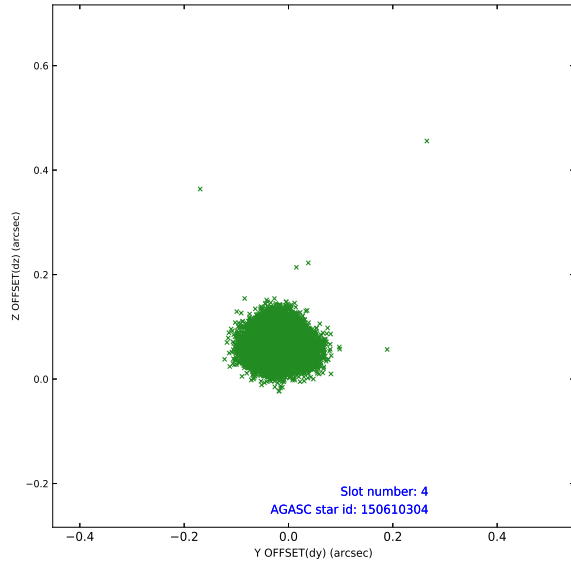
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## 2.4 Star Slots

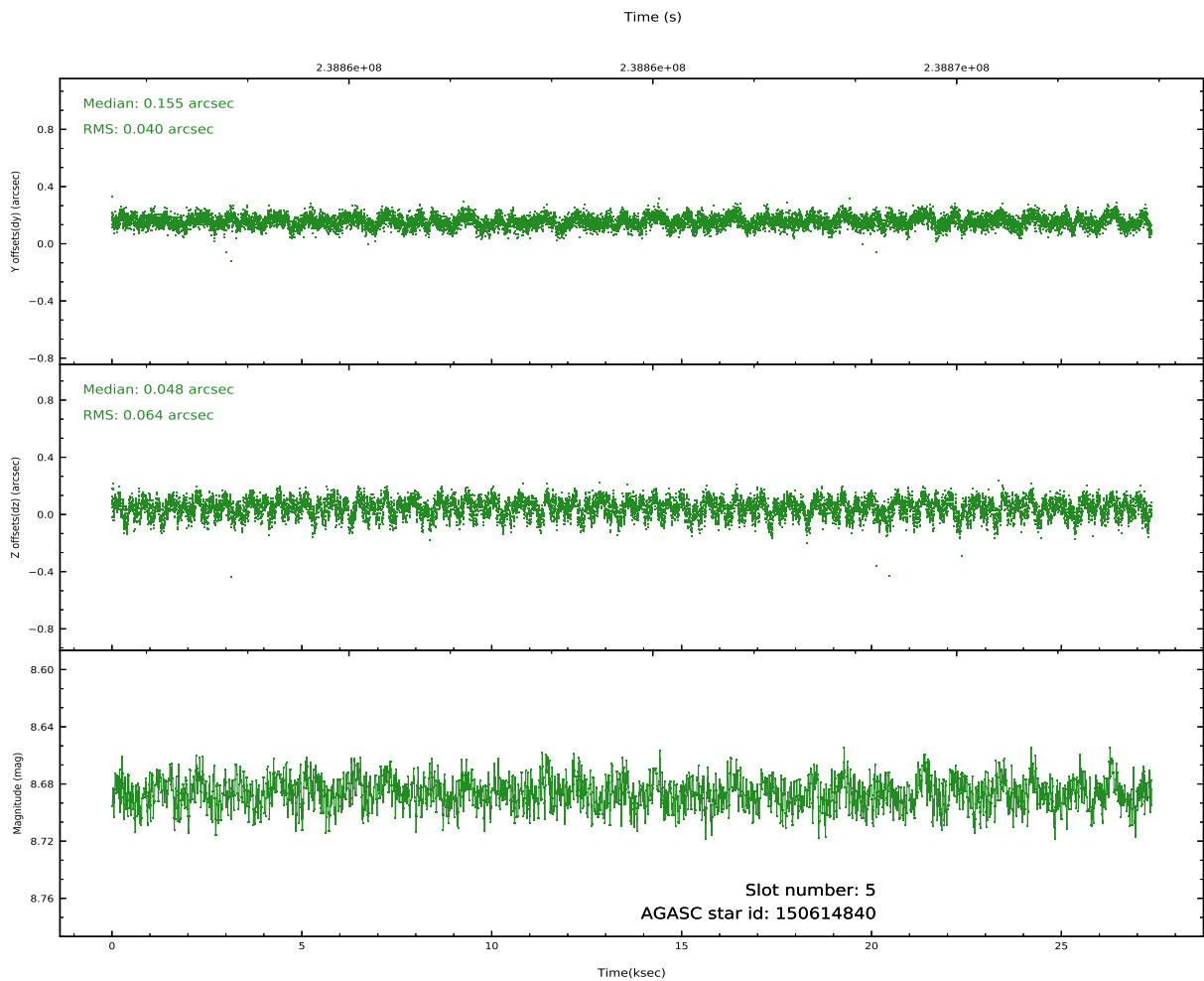
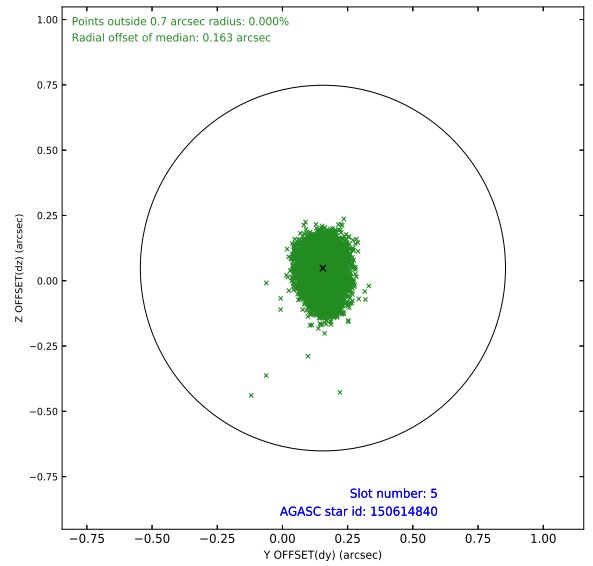
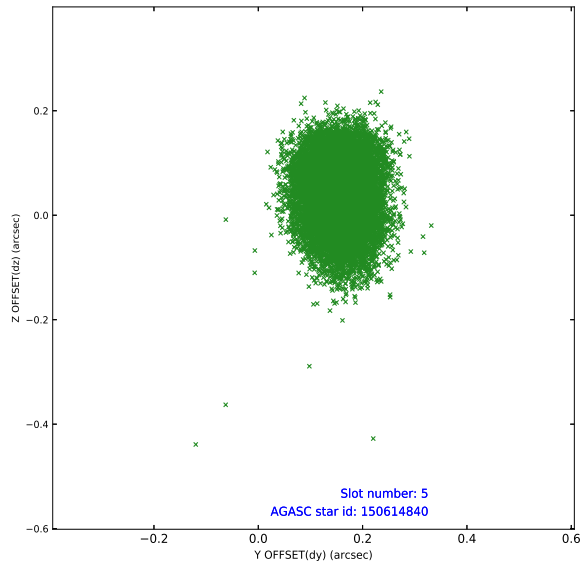
### 2.4.1 Slot 3



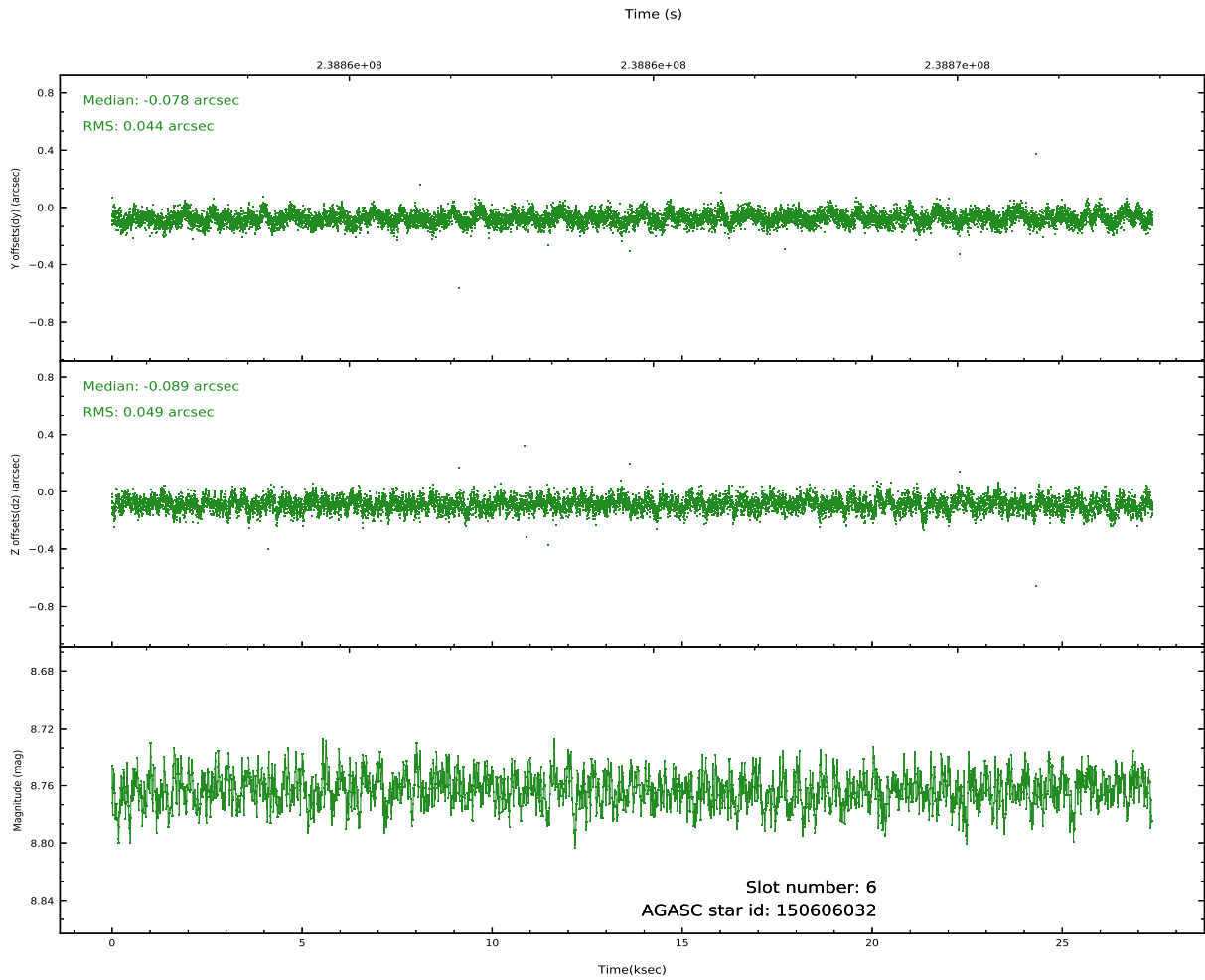
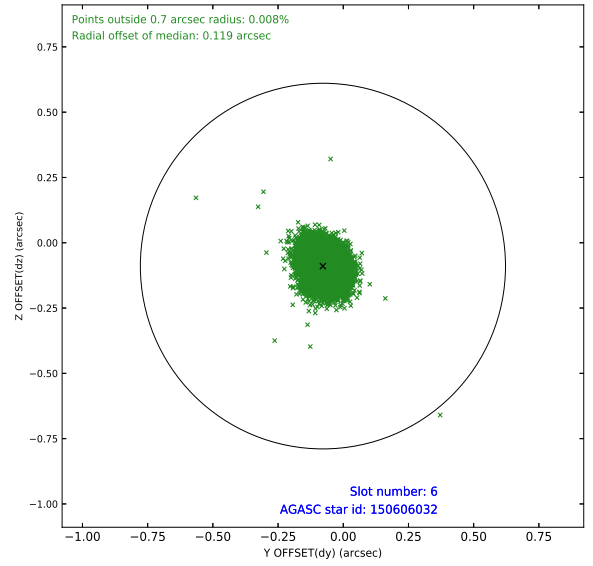
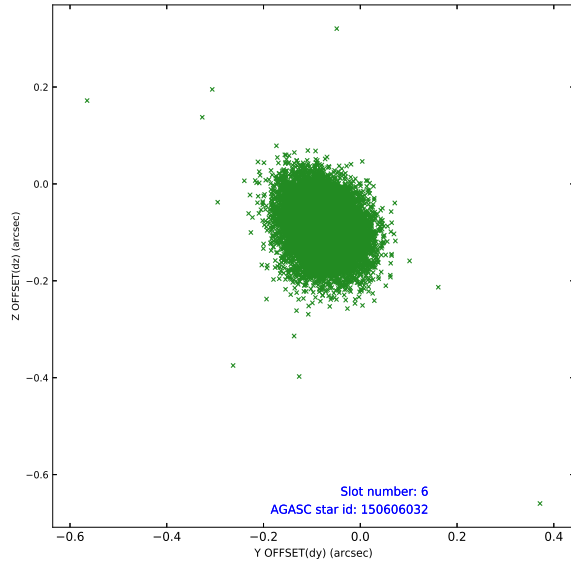
## 2.4.2 Slot 4



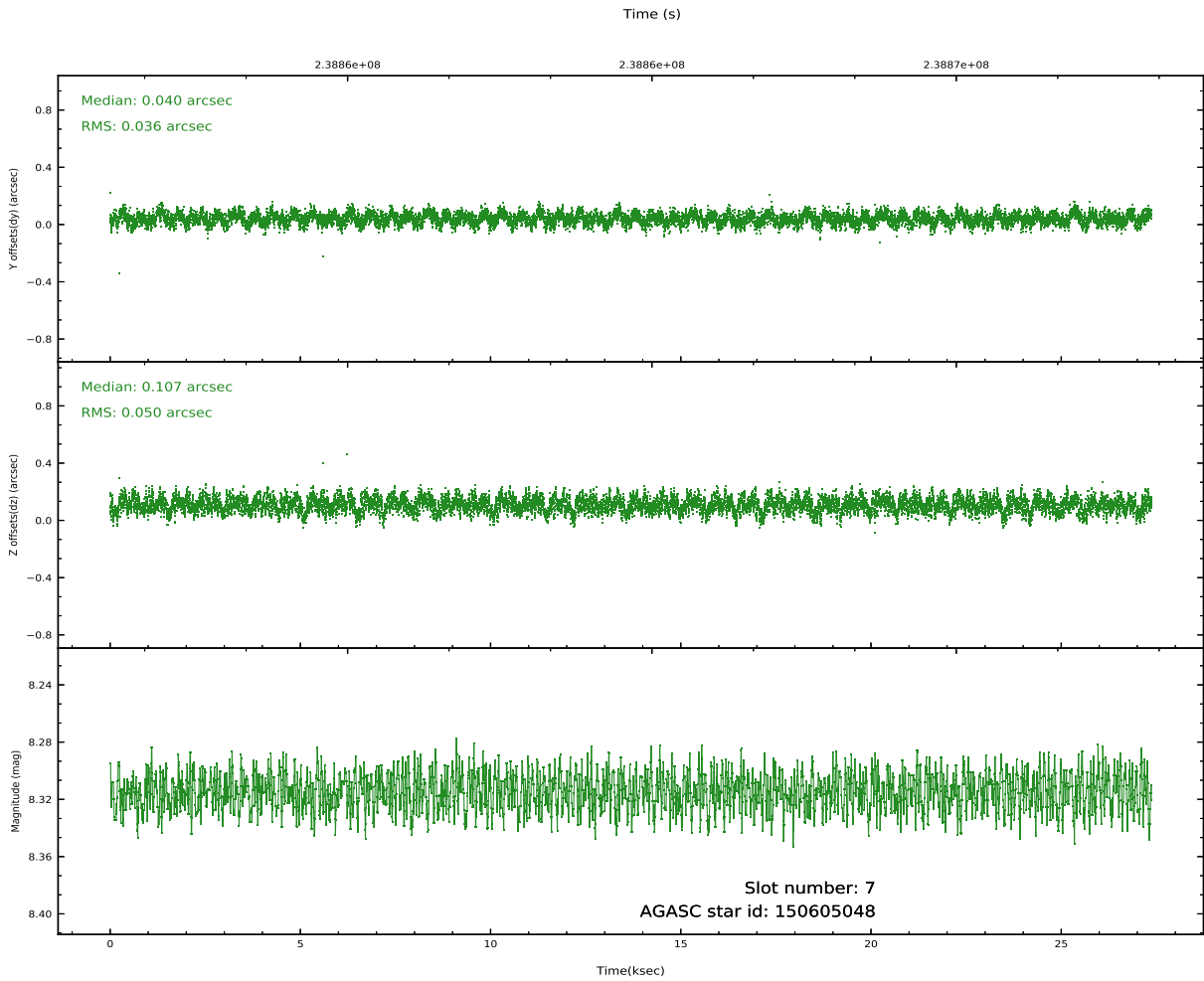
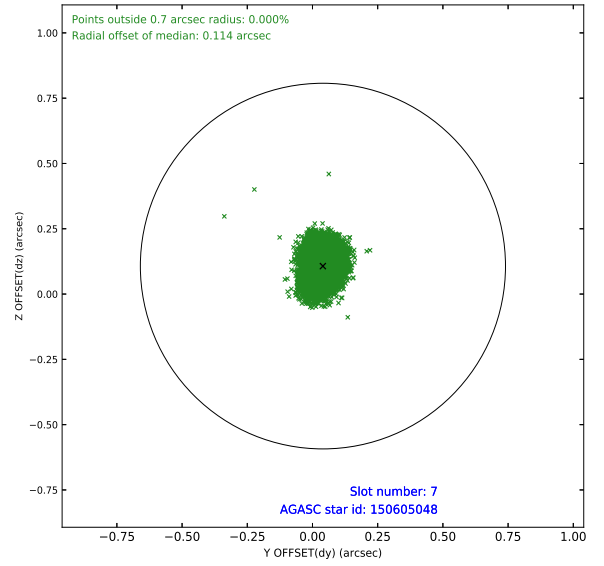
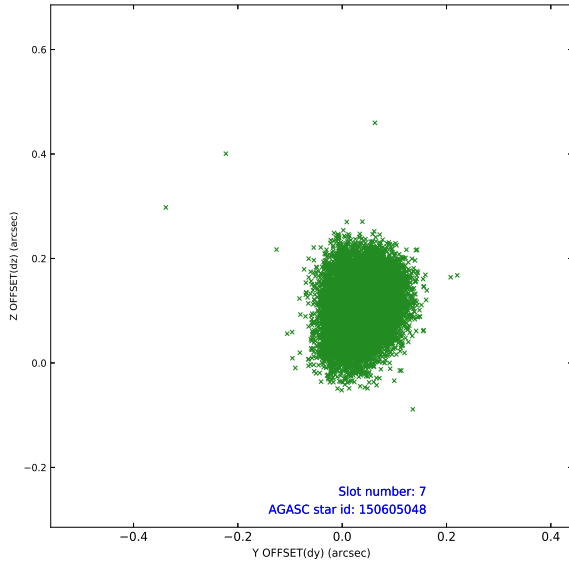
### 2.4.3 Slot 5



## 2.4.4 Slot 6

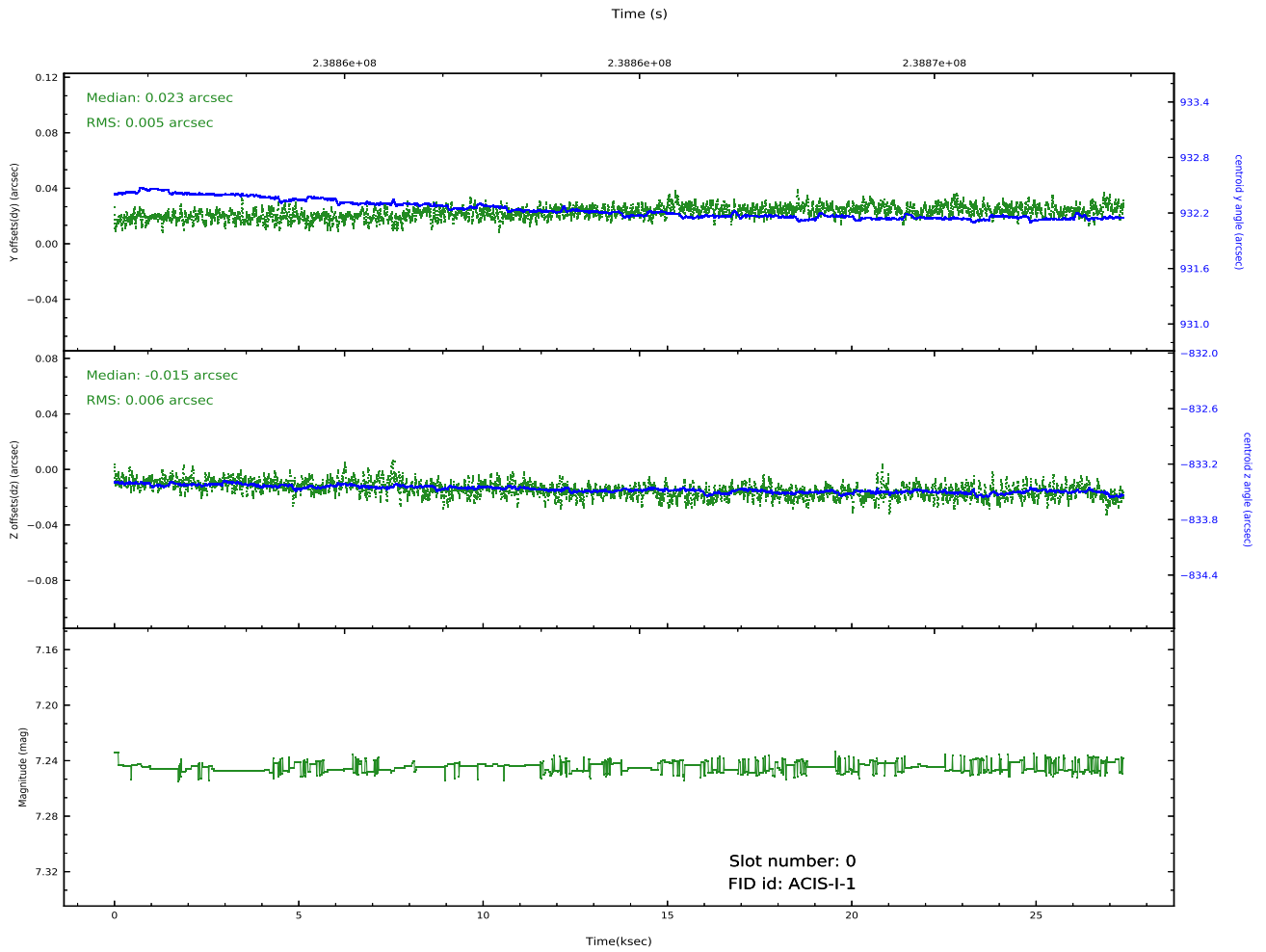
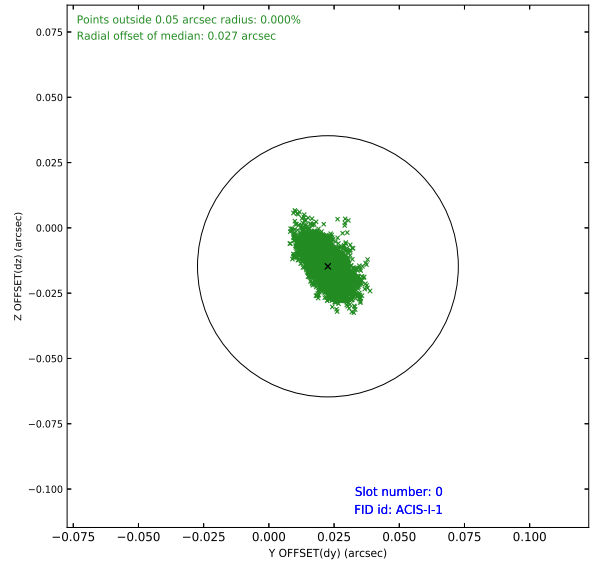
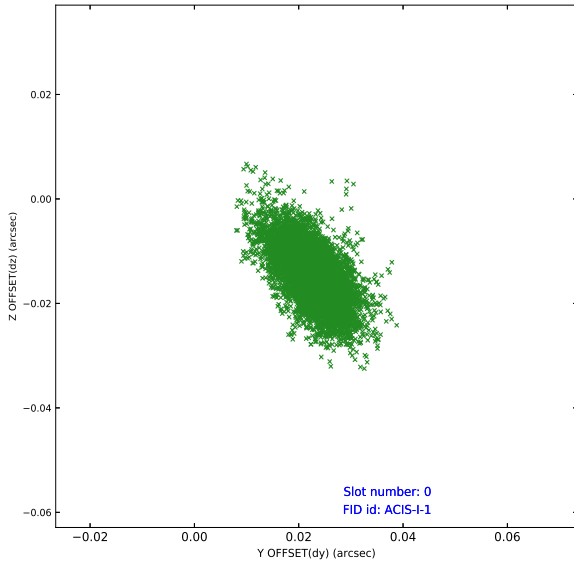


## 2.4.5 Slot 7

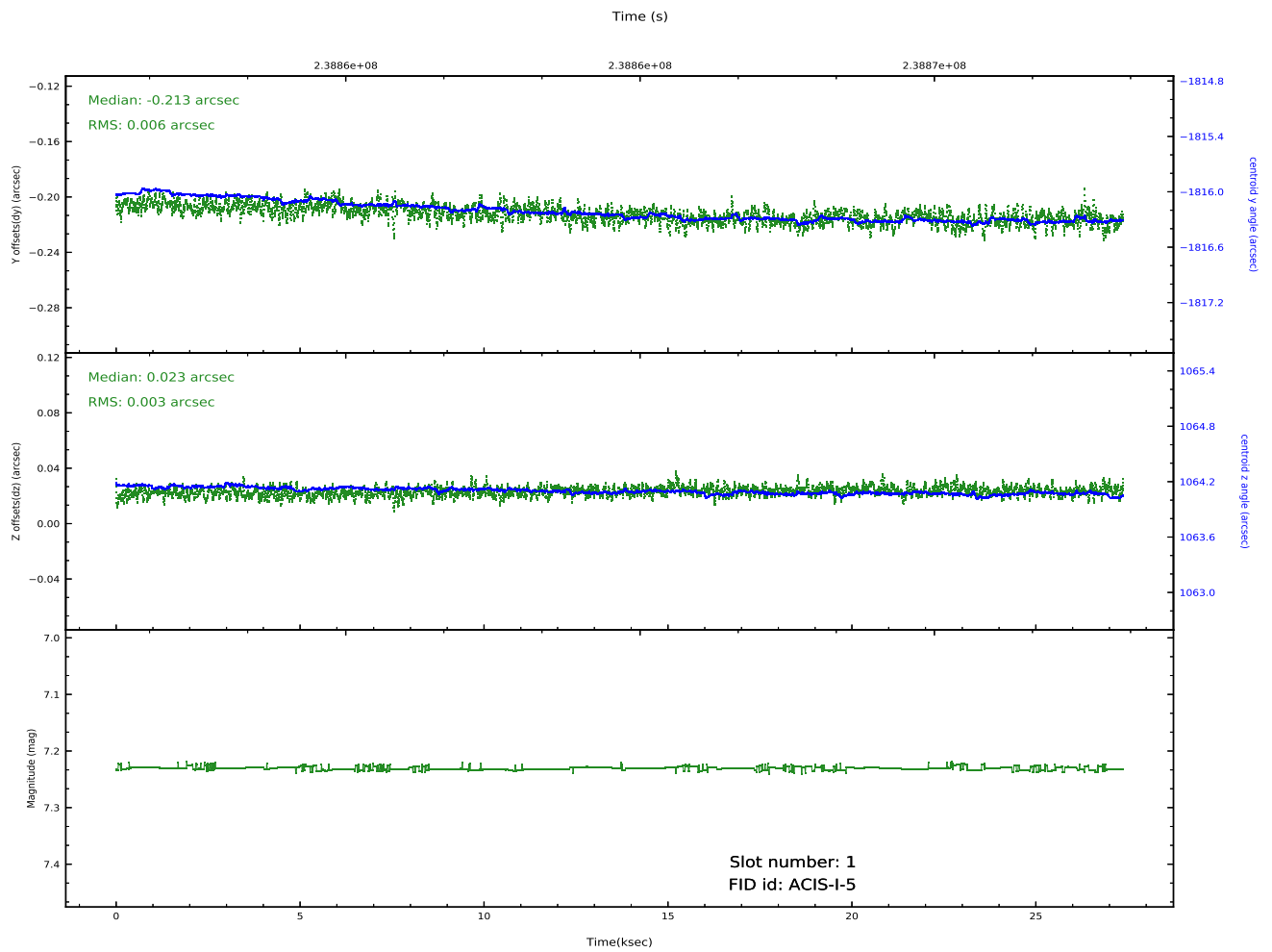
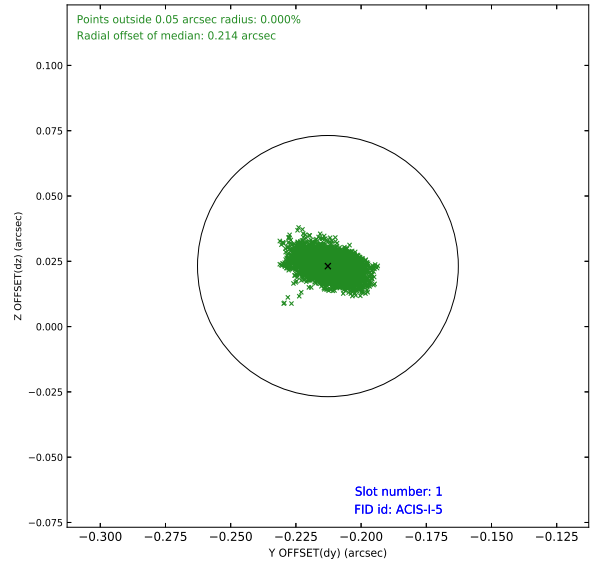
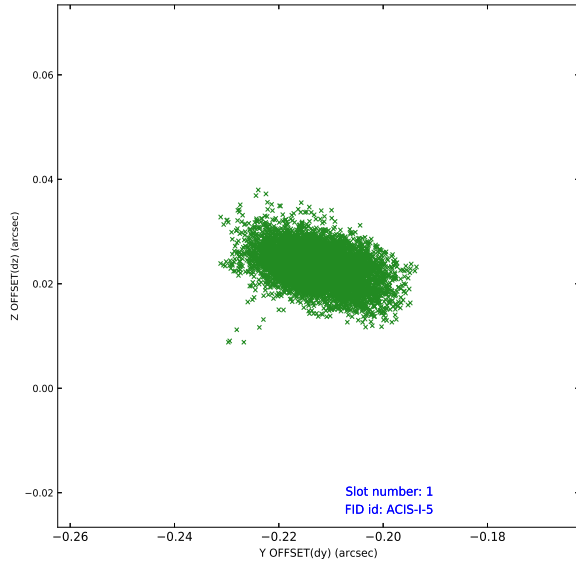


## 2.5 FID Slots

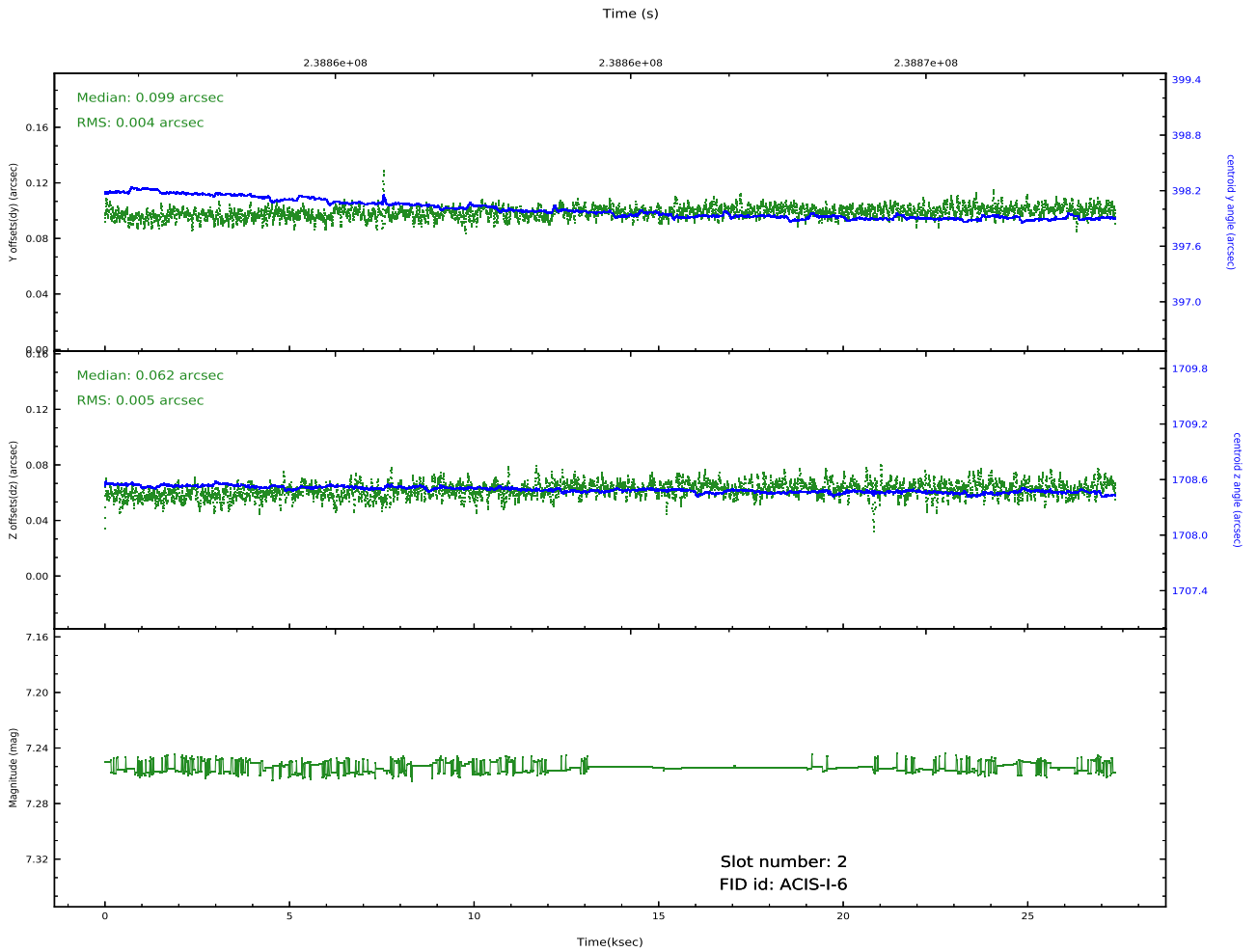
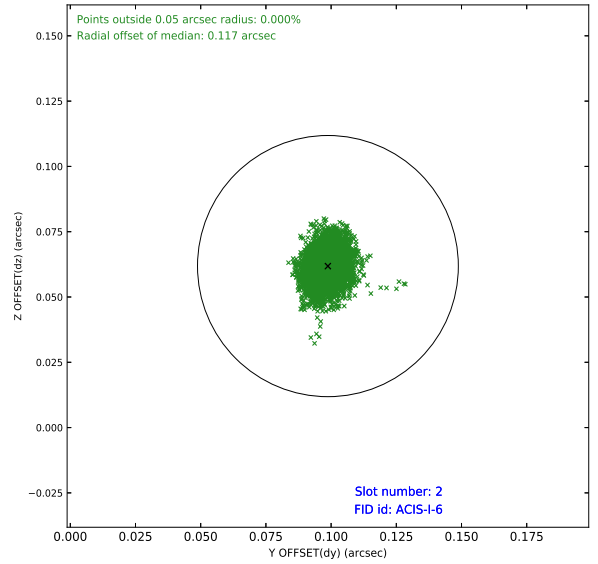
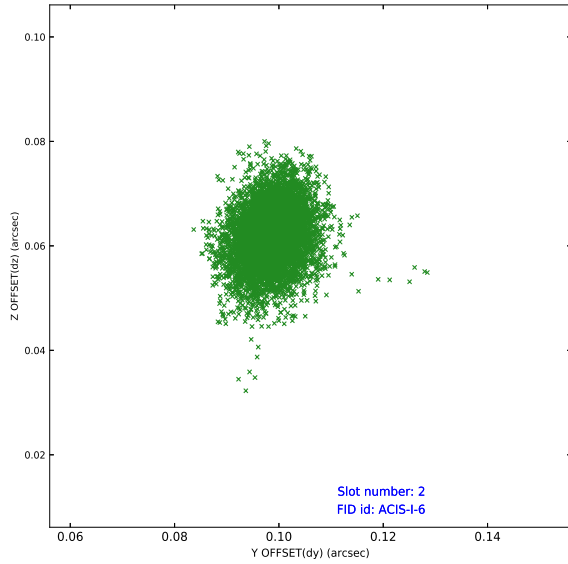
### 2.5.1 Slot 0



## 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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.57379

## A.2 Comments

Charge time for this ObsId remains at previous value of 28.573 ks although with the current processing the charge time would have been 27.36 ksec.