

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5378 - L2 Version 4  
Chandra X-Ray Center

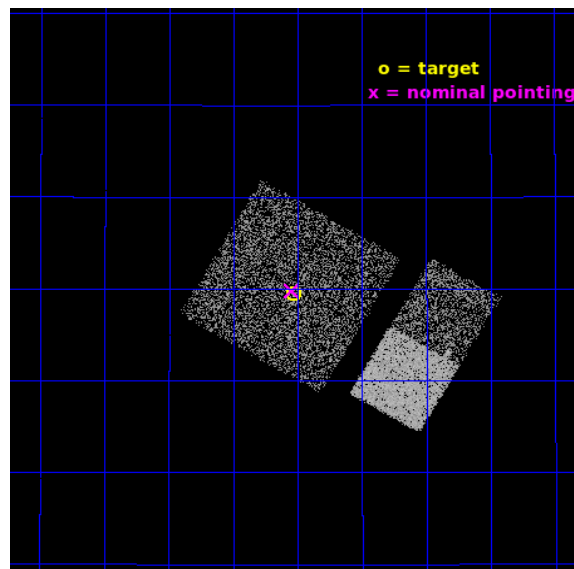
L2 Processing Date : Oct 6 2020

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# 1 Front

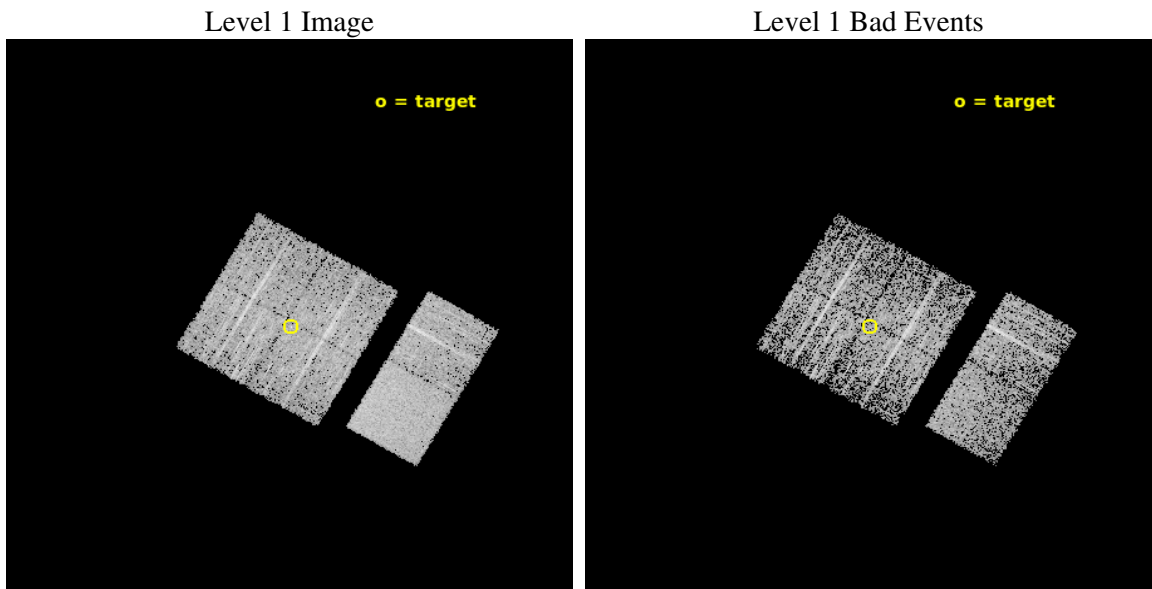
seq_num	200313	Sequence number
obs_id	5378	Observation id
title	Search for beta Pic analogs	Proposal title
observer	Gordon Garmire	Principal investigator
object	40 LMi	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.758333	Observer's specified target RA [deg]
dec_targ	26.325556	Observer's specified target Dec [deg]
ra_nom	160.76111695318	Nominal RA [deg]
dec_nom	26.329978599634	Nominal Dec [deg]
roll_nom	120.2765462934	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2959.9999889731	Sum of GTIs [s]
livetime	2922.5186868147	Livetime [s]
ontime0	2959.9999889731	Sum of GTIs [s]
ontime1	2959.9999889731	Sum of GTIs [s]
ontime2	2959.9999889731	Sum of GTIs [s]
ontime3	2959.9999889731	Sum of GTIs [s]
ontime6	2959.9999889731	Sum of GTIs [s]
ontime7	2959.9999889731	Sum of GTIs [s]
l2events	22728	Number of level 2 events



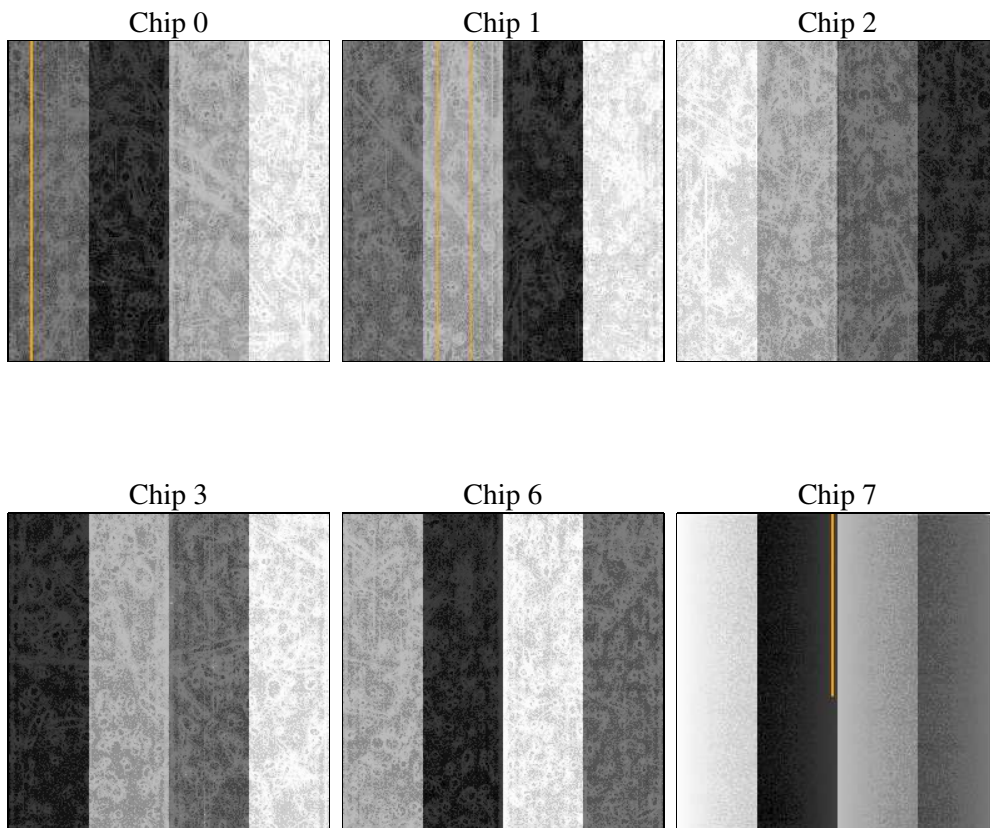
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2959.9999889731	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	2959.9999889731	Sum of GTIs [s]
date	2020-10-06T15:24:01	Date and time of file creation	ontime1	2959.9999889731	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	2959.9999889731	Sum of GTIs [s]
			ontime3	2959.9999889731	Sum of GTIs [s]
			ontime6	2959.9999889731	Sum of GTIs [s]
			ontime7	2959.9999889731	Sum of GTIs [s]
			l1events	130766	Number of level 1 events

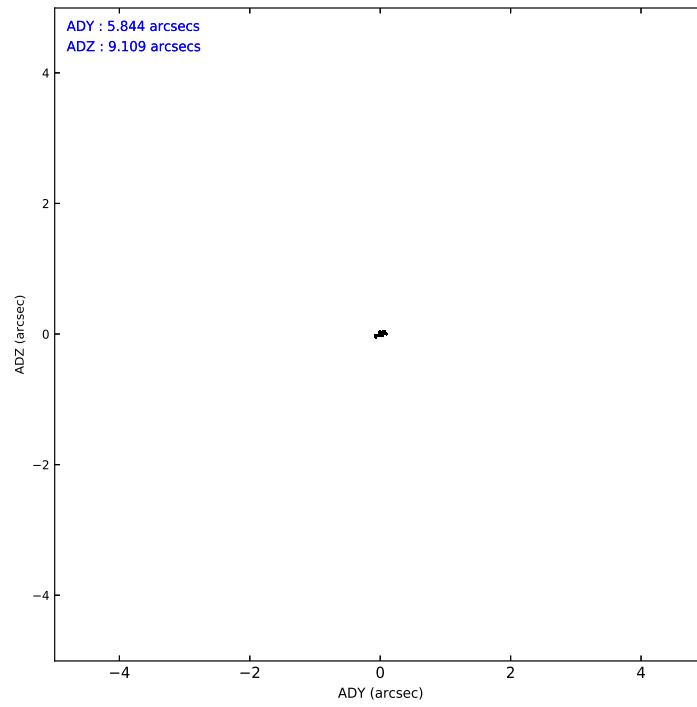
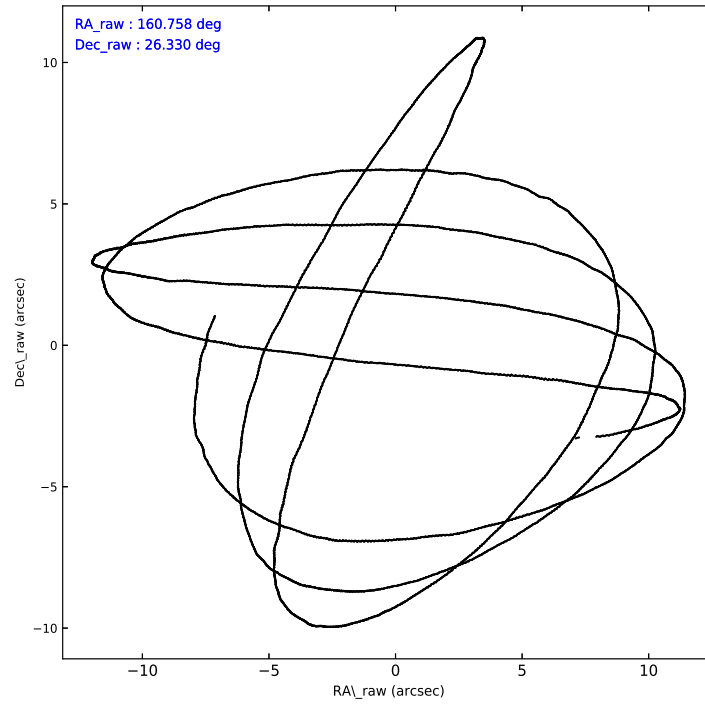
### 2.1.4 Events

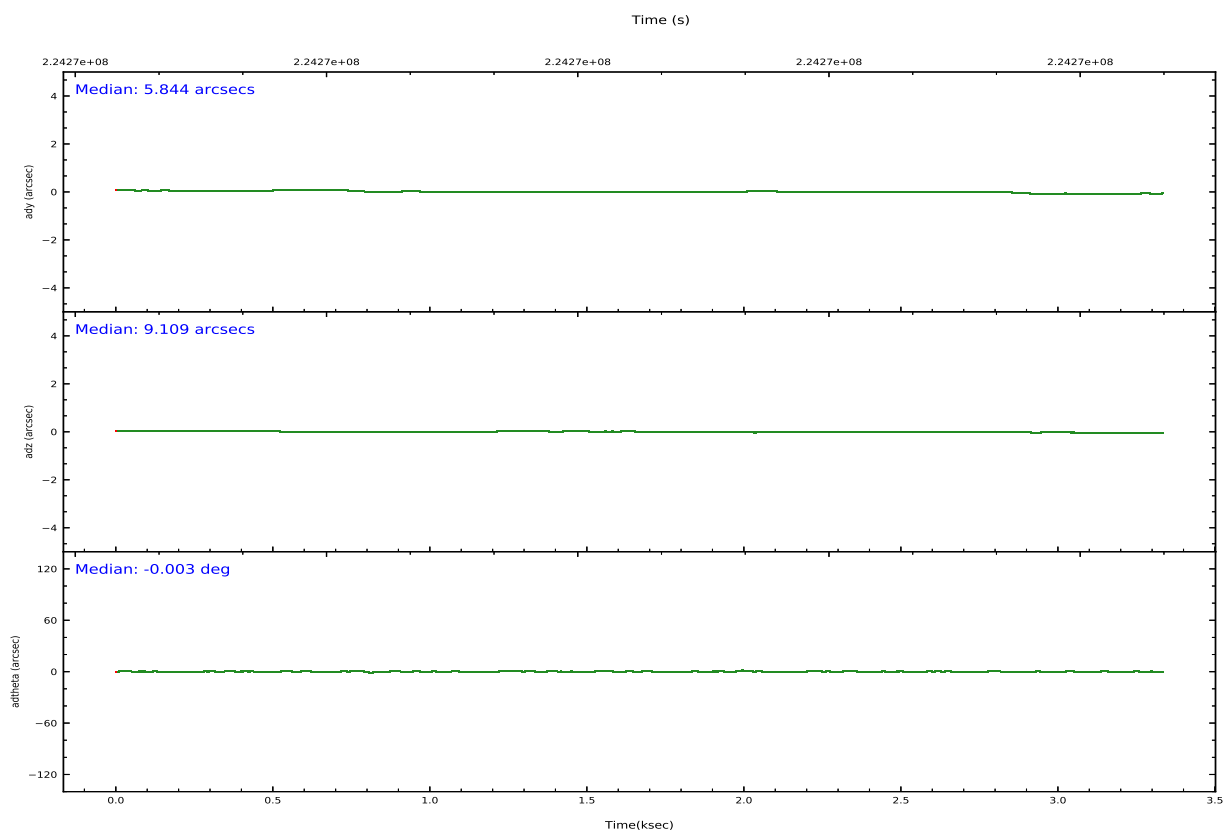
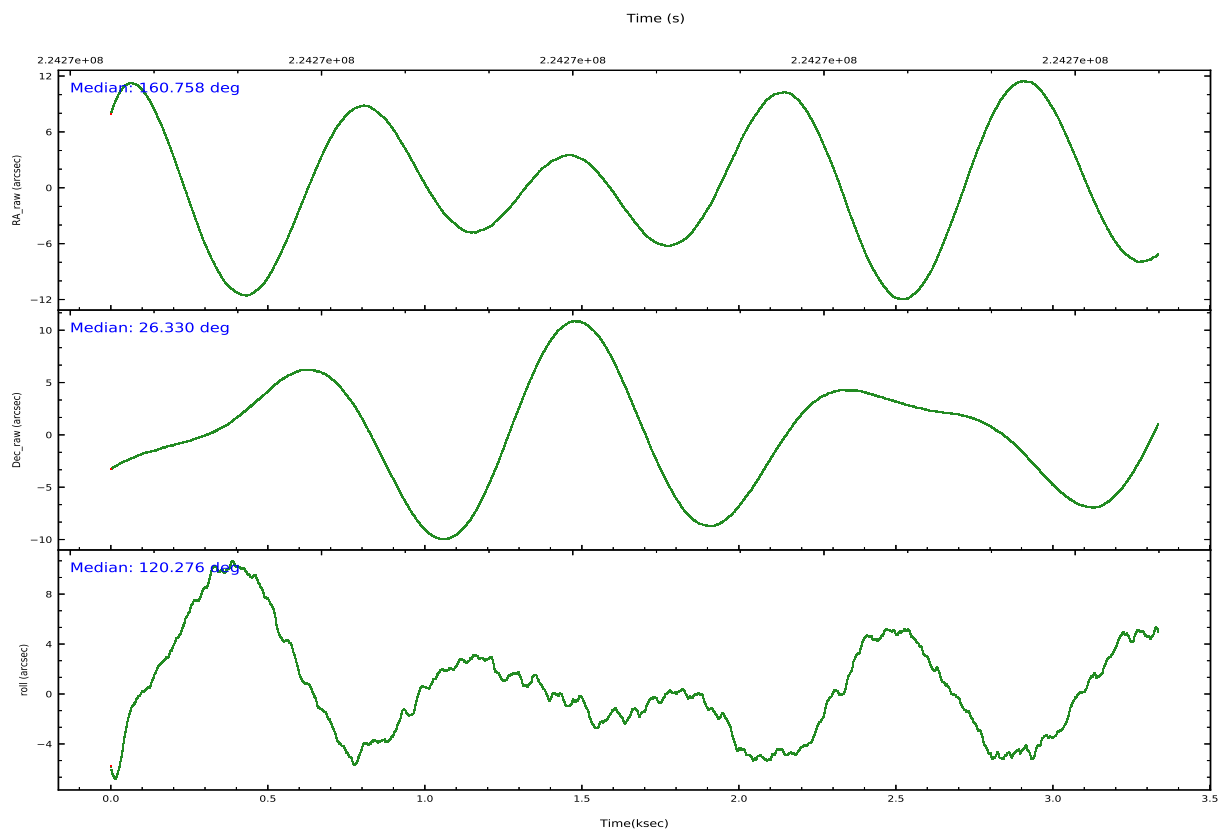
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18043	21826	20532	19971	21829	28565	grade 0 events	1059	1095	1079	1143	1020	1054
rejected events	15533	19044	18089	17443	19160	16676		5%	5%	5%	5%	4%	3%
rejected %	86%	87%	88%	87%	87%	58%	grade 1 events	9	12	15	20	10	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	542	605	469	512	601	2250
								3%	2%	2%	2%	2%	7%
							grade 3 events	246	254	244	240	247	1050
								1%	1%	1%	1%	1%	3%
							grade 4 events	230	284	239	239	236	1024
								1%	1%	1%	1%	1%	3%
							grade 5 events	794	928	824	953	996	2704
								4%	4%	4%	4%	4%	9%
							grade 6 events	436	549	415	398	566	6527
								2%	2%	2%	1%	2%	22%
							grade 7 events	14727	18099	17247	16466	18153	13933
								81%	82%	84%	82%	83%	48%

## 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	160.784270	160.76111695318	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.316668	26.329978599634	Alternating exposures requested	N	N
[deg] Pointing Roll	120.055290	120.2765462934	[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)	224267664.184000	224266626.71285			
Observation start date	2005-02-08T16:33:20	2005-02-08T16:17:06			
[s] Observation end time (MET)	224270664.184000	224271263.81306			
Observation end date	2005-02-08T17:23:20	2005-02-08T17:34:23			
Read mode	TIMED	TIMED			

## 2.3 Aspect



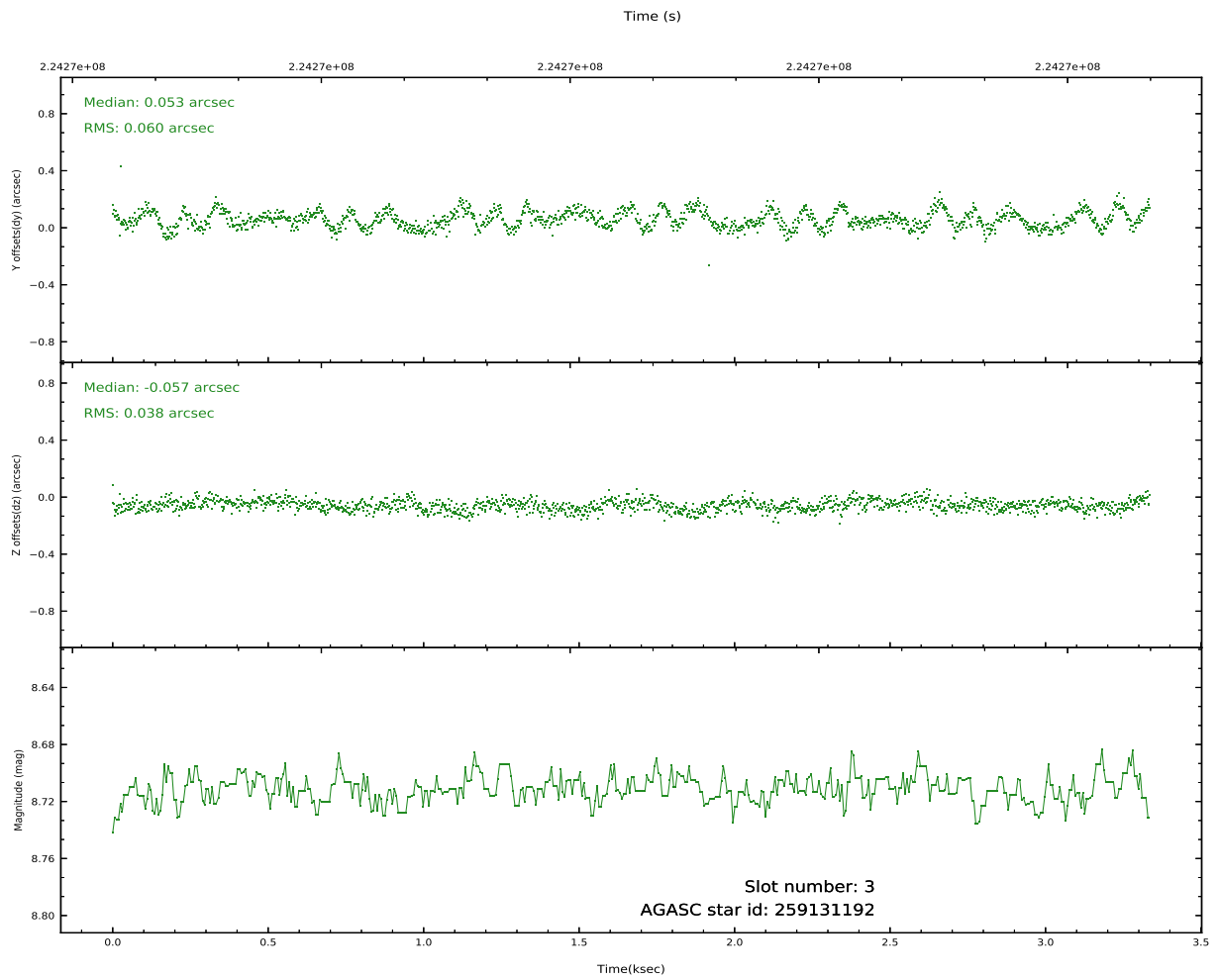
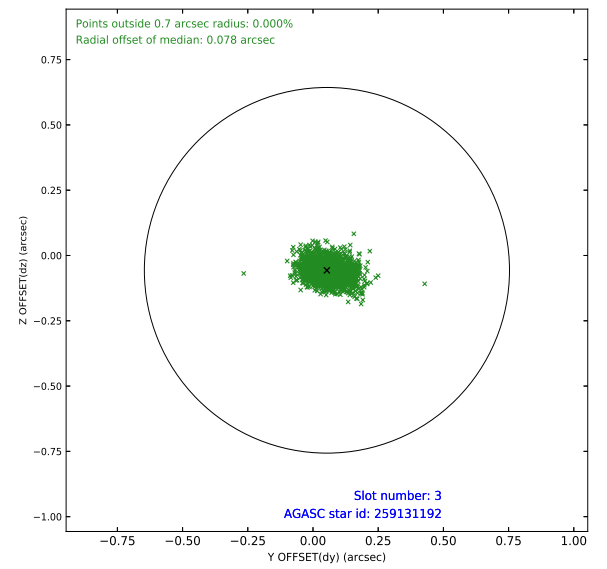
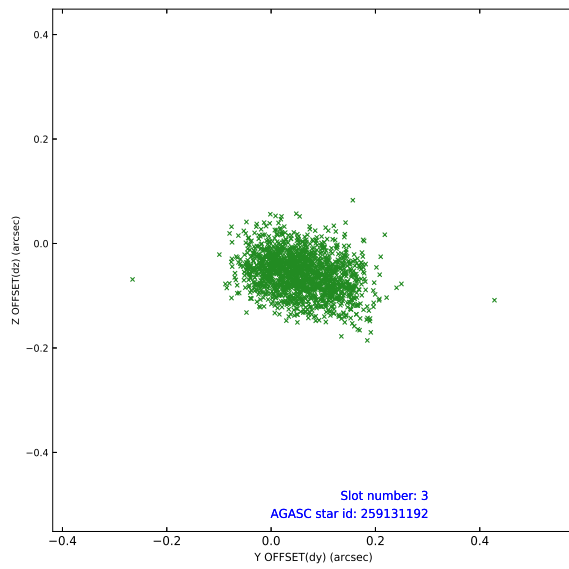


Slot Statistics

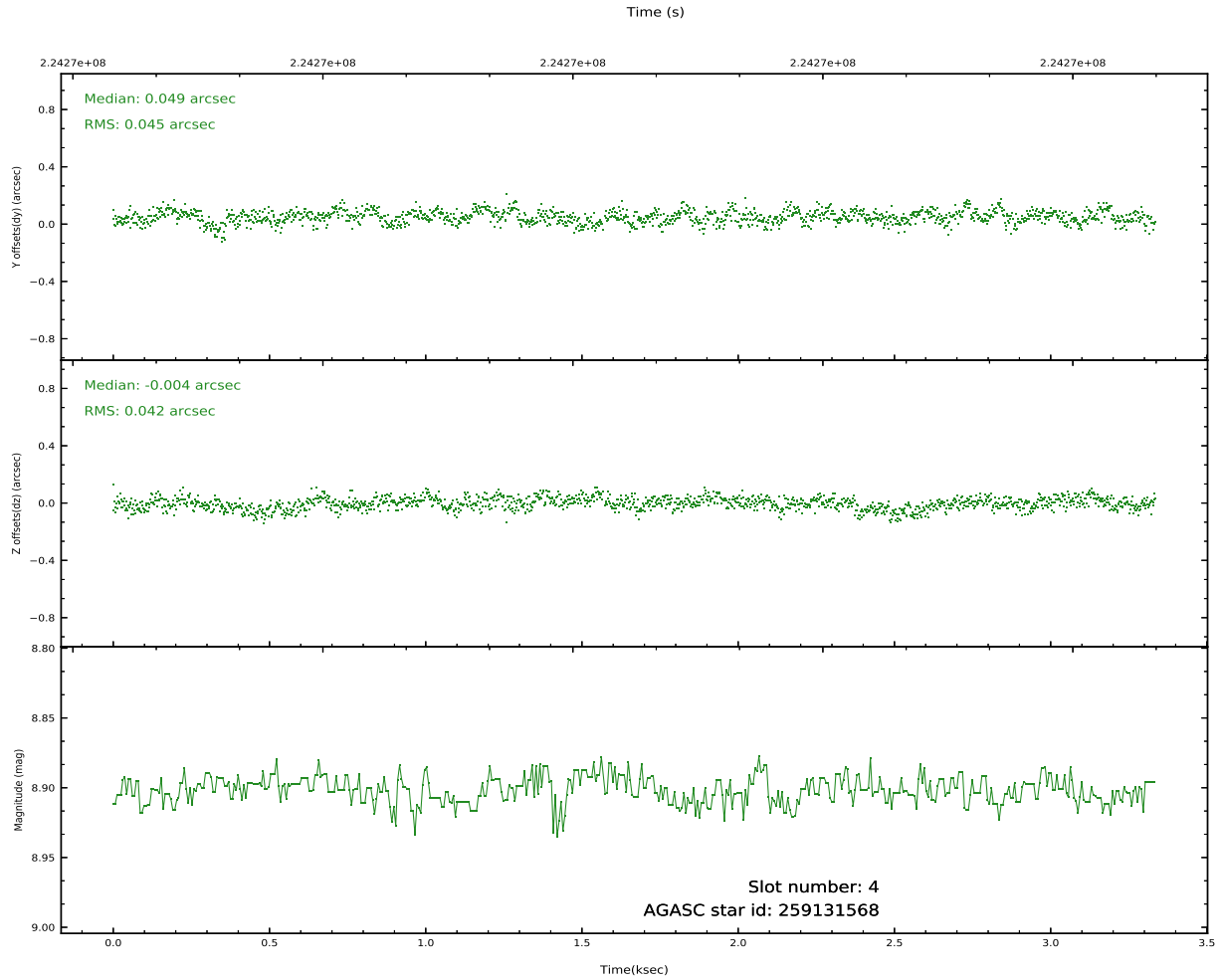
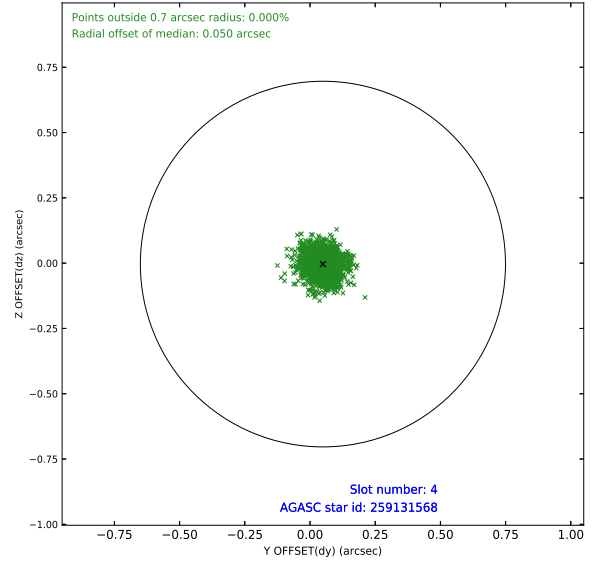
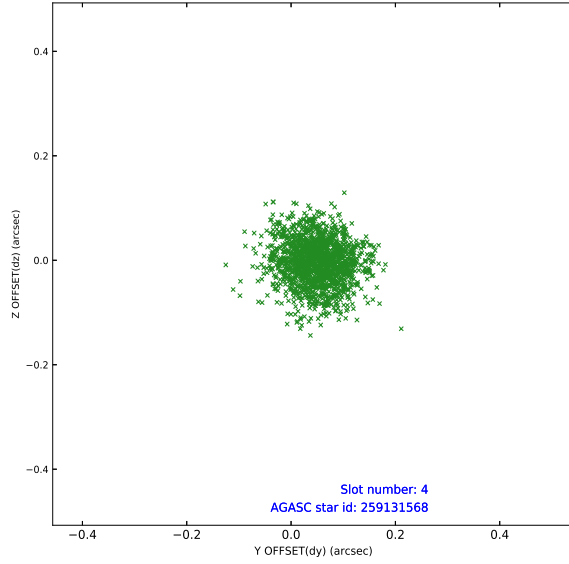
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	814	1.000	0.010	0.022	0.006	0.010	0.000000	0.000000	933.89	-832
1	FID		ACIS-I-5	7.23	814	1.000	-0.191	0.023	0.006	0.009	0.000000	0.000000	-1813.39	1063
2	FID		ACIS-I-6	7.25	814	1.000	0.090	0.025	0.007	0.010	0.000000	0.000000	397.42	1710
3	GUIDE	used	259131192	8.71	1627	1.000	0.053	-0.057	0.075	0.122	160.476309	25.672299	-1506.14	2025
4	GUIDE	used	259131568	8.90	1625	1.000	0.049	-0.004	0.066	0.106	160.852498	25.766747	-1824.31	801
5	GUIDE	used	259145904	9.16	1628	1.000	-0.024	0.081	0.073	0.119	161.627895	26.024766	-2269.64	-1839
6	GUIDE	used	259129496	8.34	1628	1.000	-0.034	-0.105	0.079	0.127	160.011760	26.206571	911.77	2353
7	GUIDE	used	259395704	8.14	1627	1.000	-0.039	0.088	0.056	0.093	159.920084	26.636145	2396.86	1827

## 2.4 Star Slots

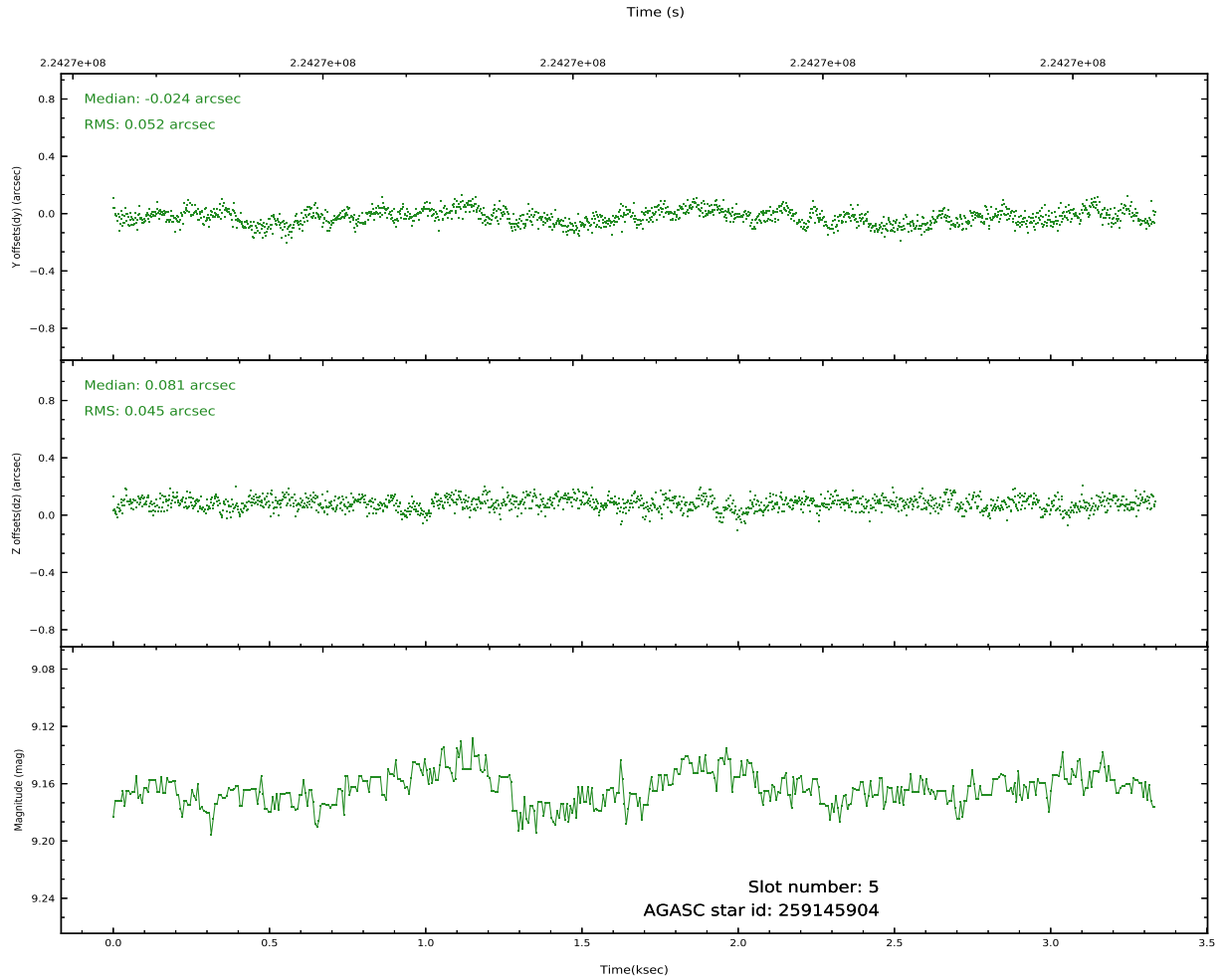
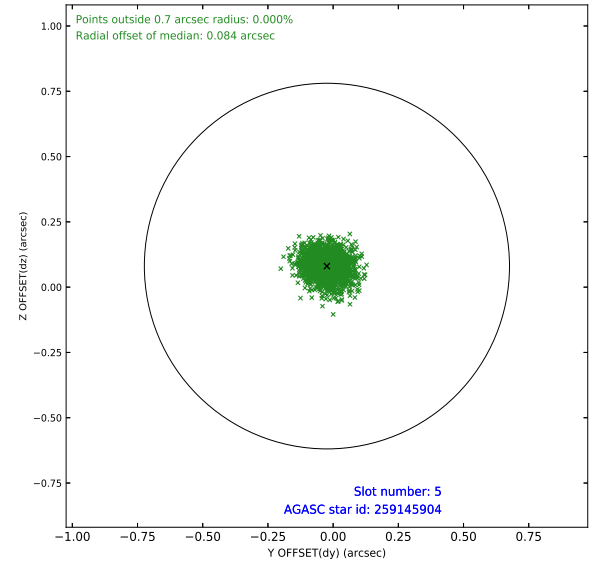
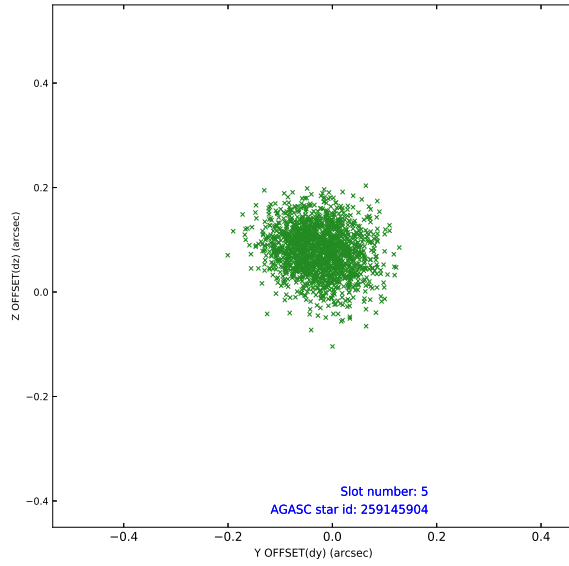
### 2.4.1 Slot 3



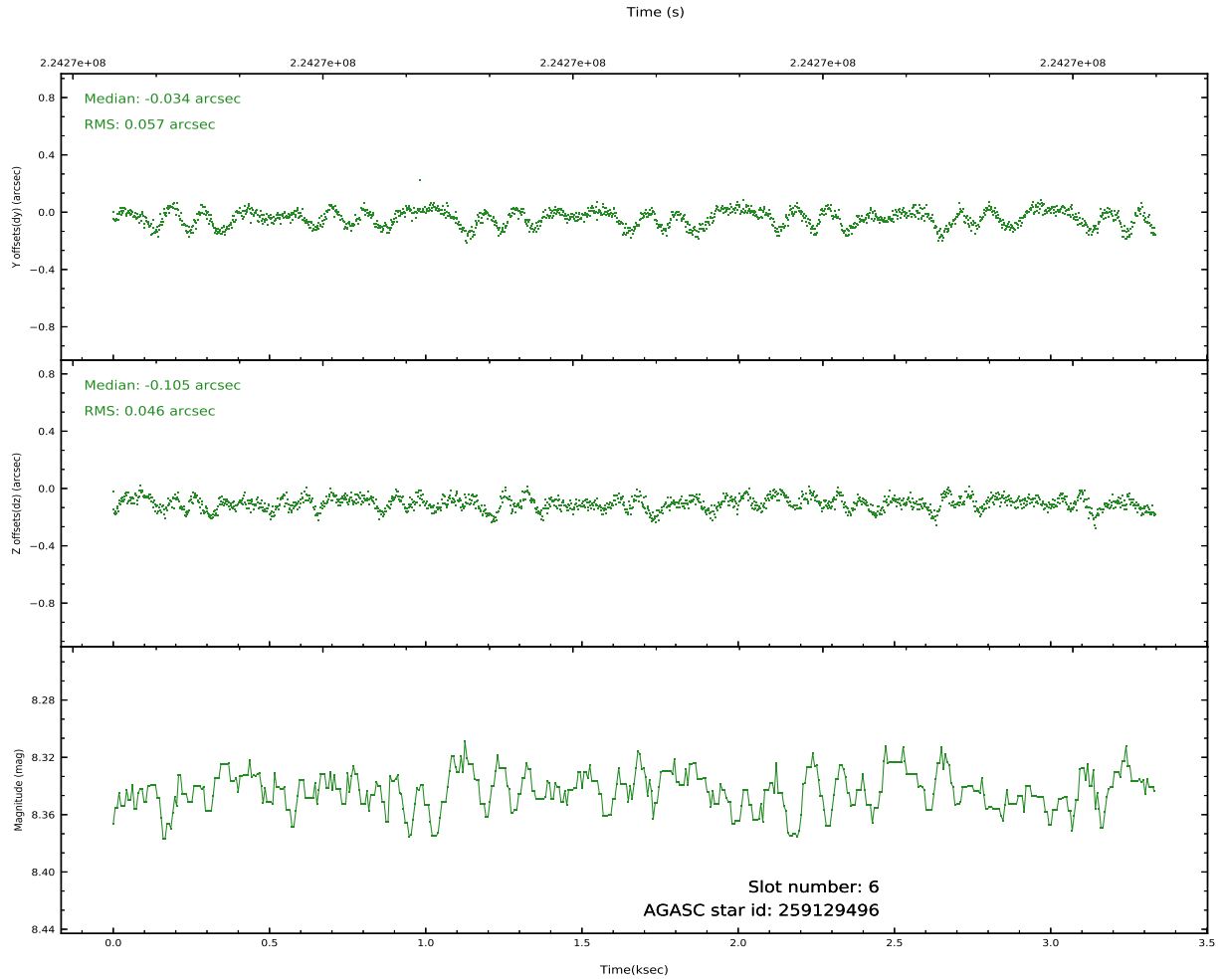
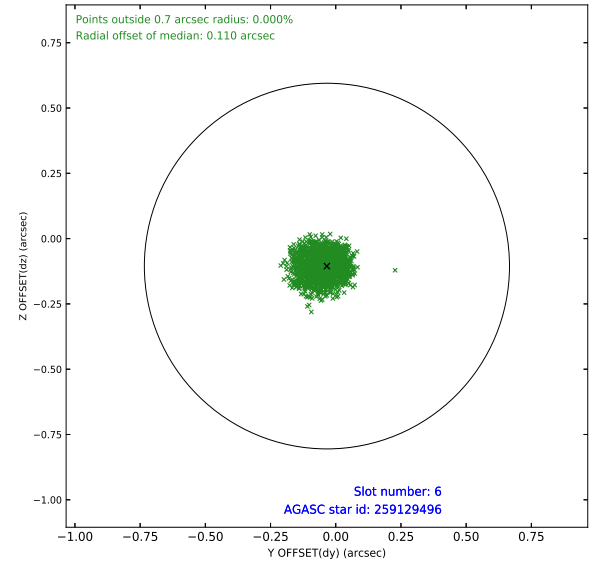
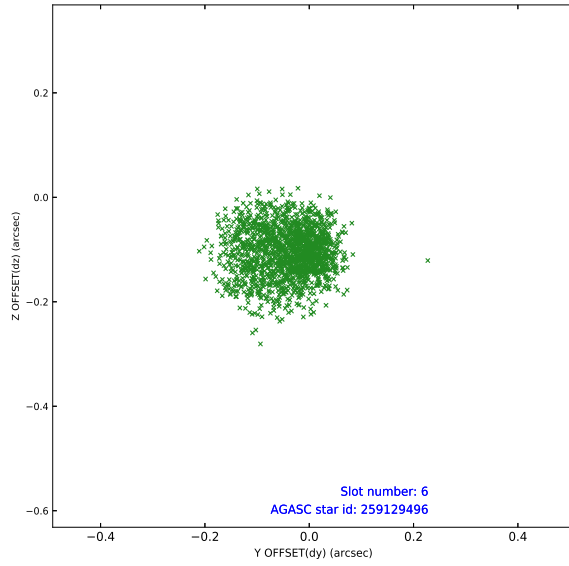
## 2.4.2 Slot 4



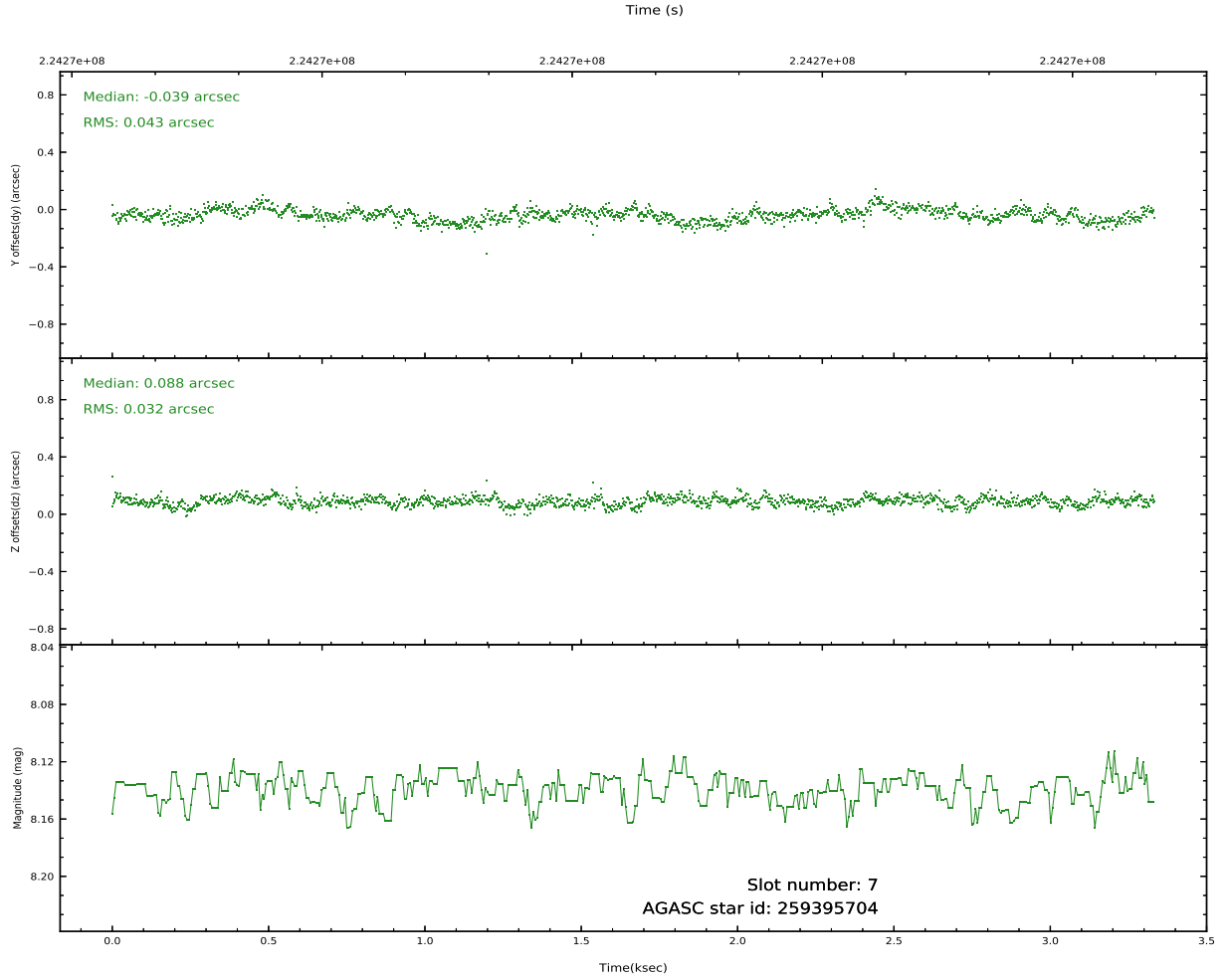
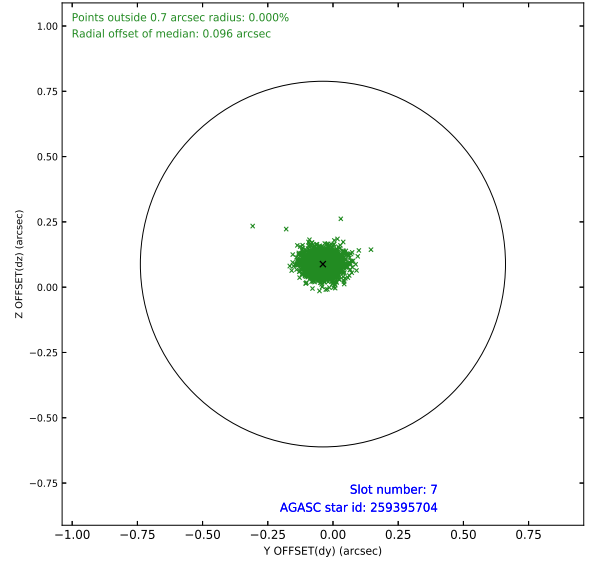
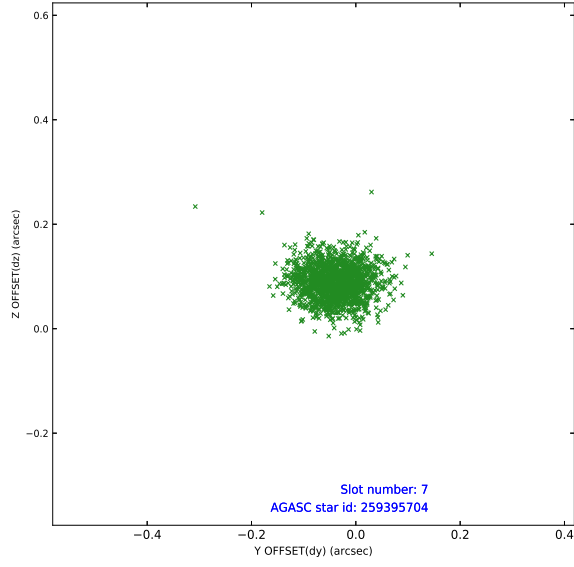
### 2.4.3 Slot 5



## 2.4.4 Slot 6

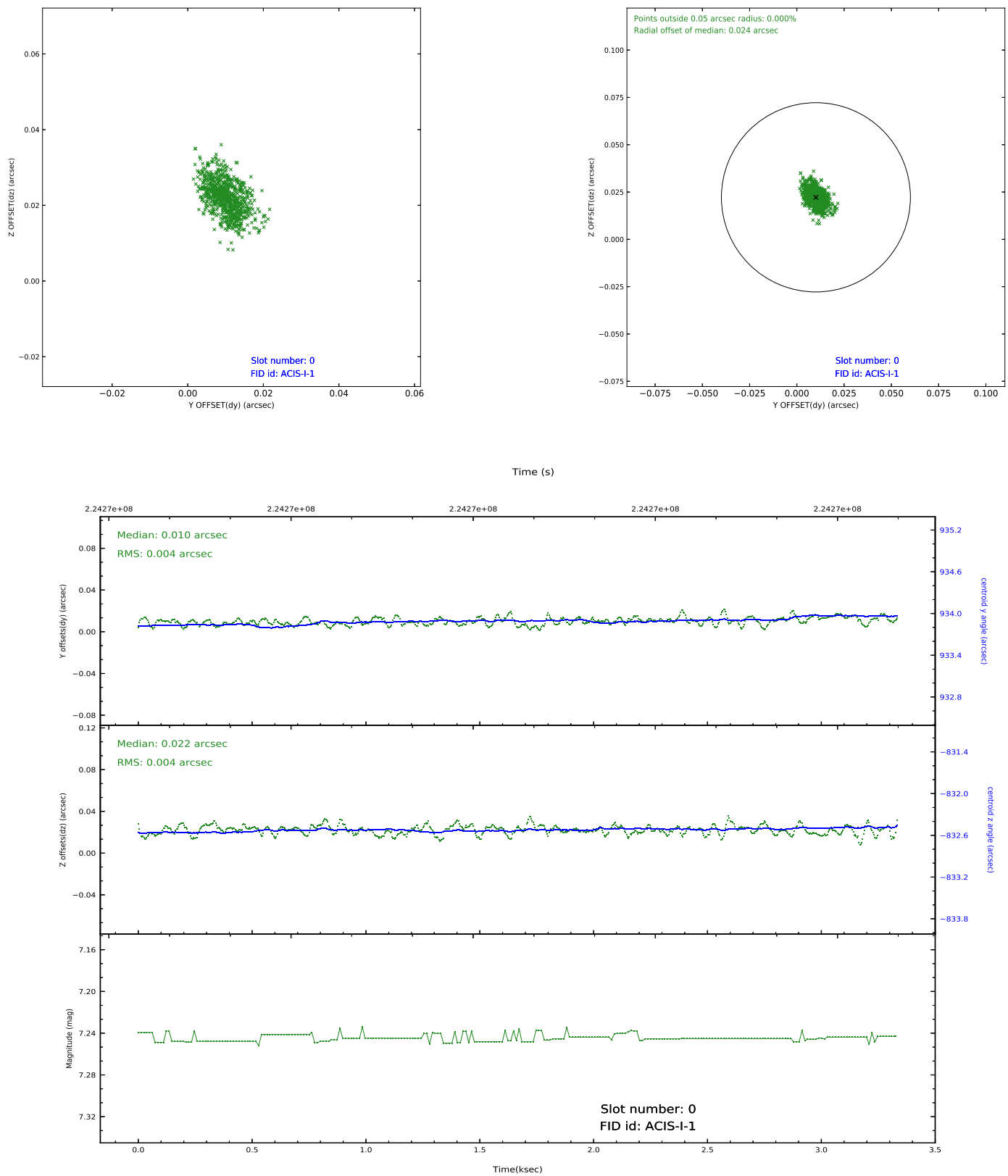


## 2.4.5 Slot 7

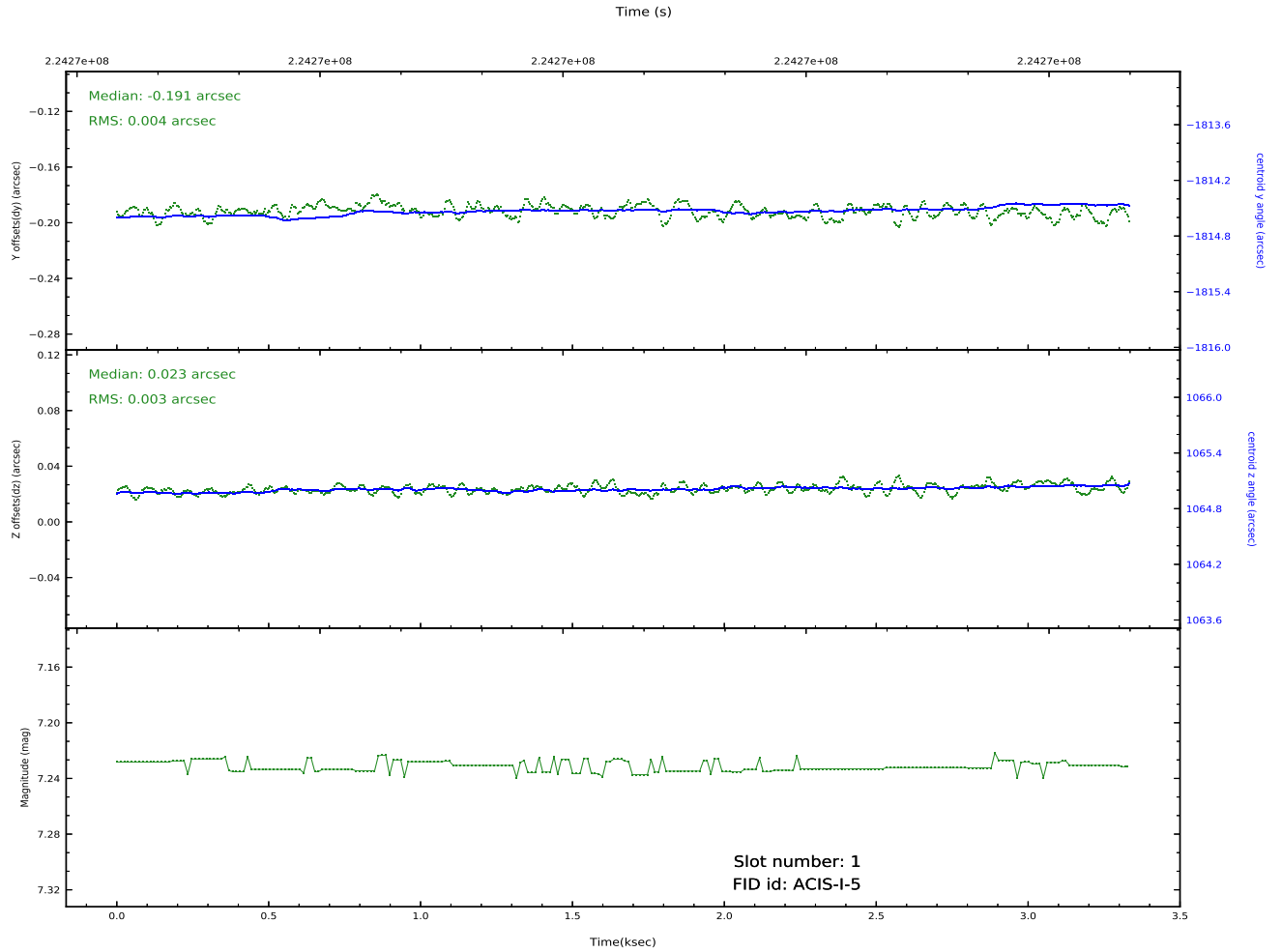
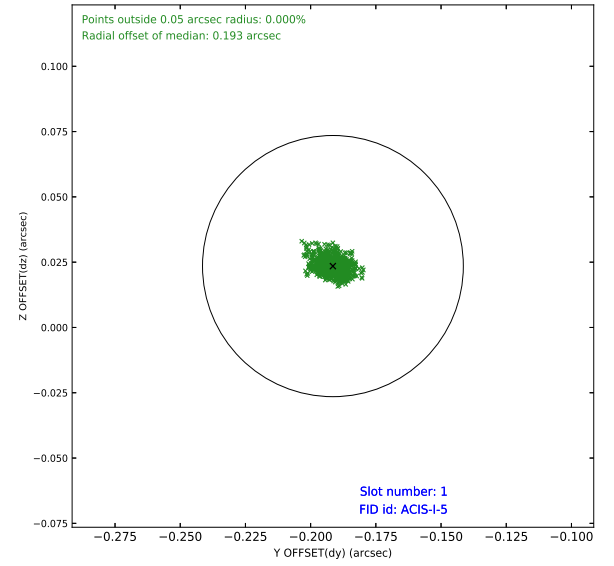
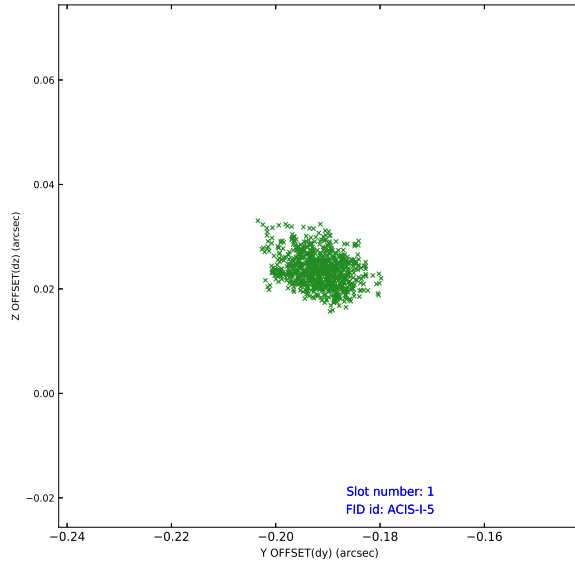


## 2.5 FID Slots

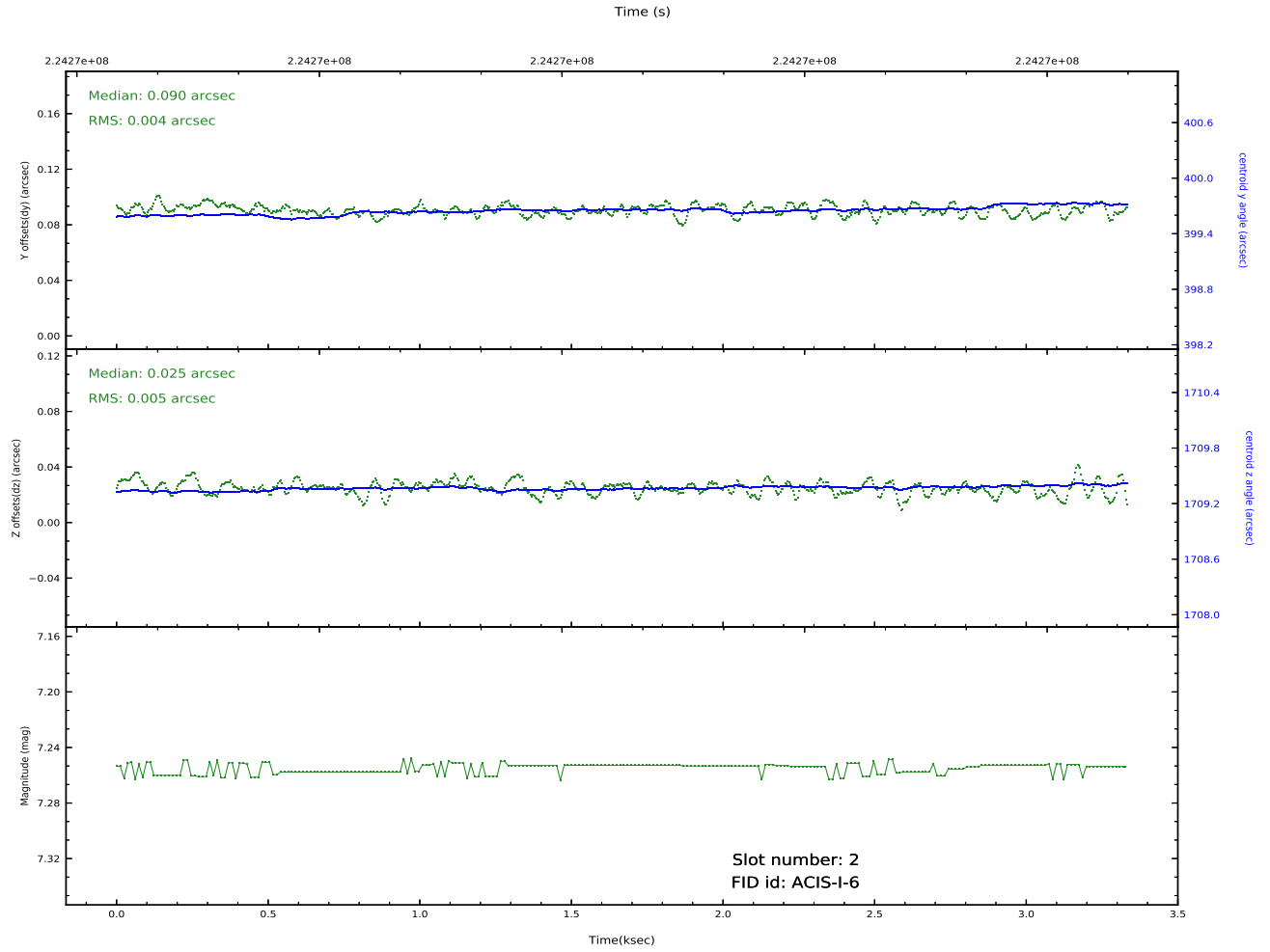
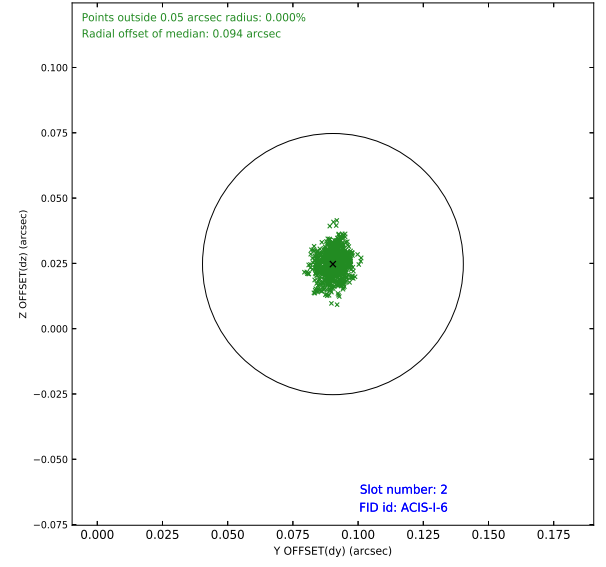
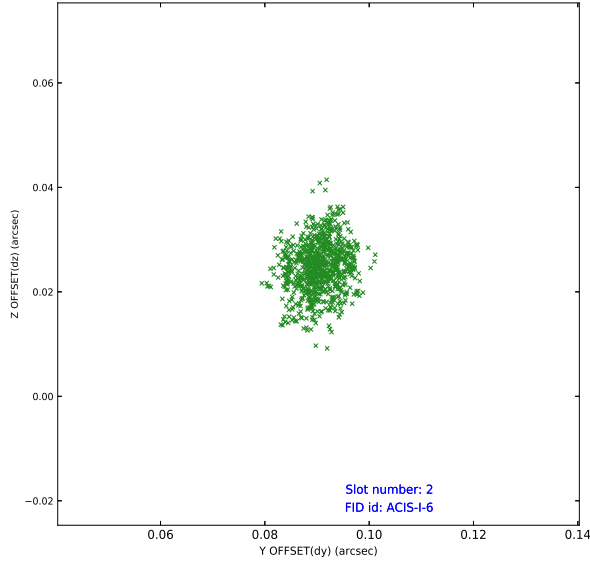
### 2.5.1 Slot 0



## 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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.959999

### A.2 Comments