

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5177 - L2 Version 4  
Chandra X-Ray Center

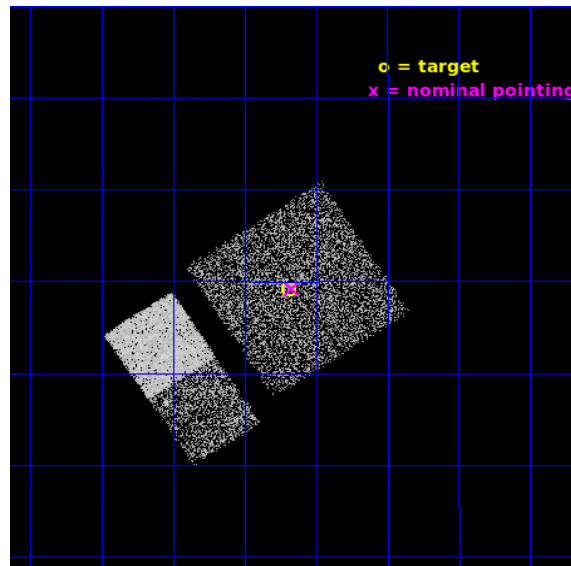
L2 Processing Date : Sep 26 2020

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# 1 Front

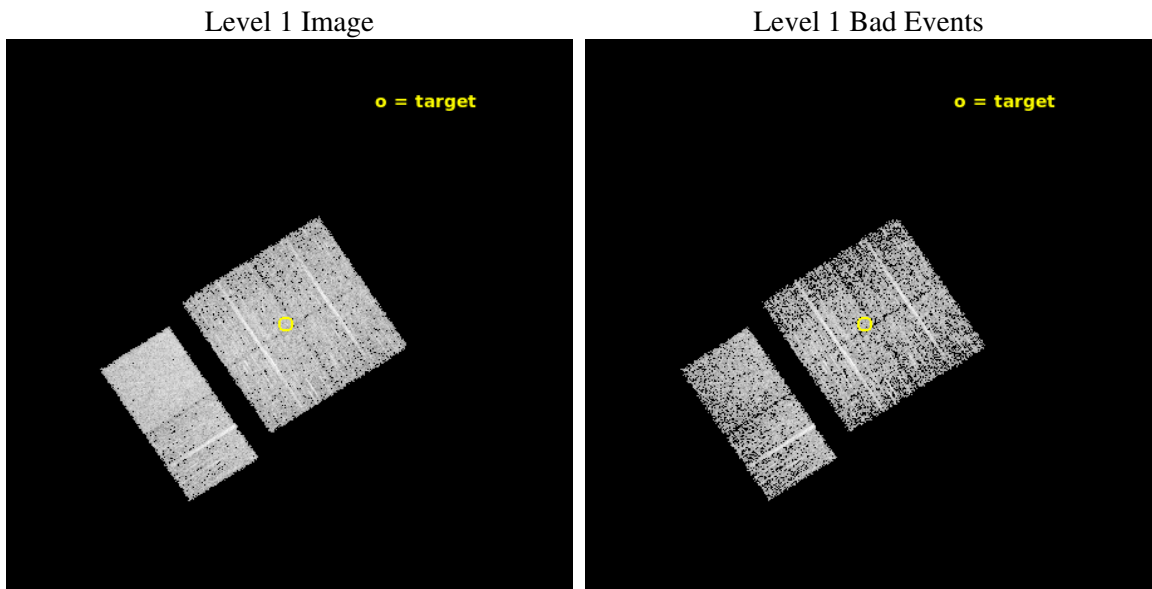
seq_num	200285	Sequence number
obs_id	5177	Observation id
title	Alternate - Search for beta Pic analogs extension	Proposal title
observer	Gordon Garmire	Principal investigator
object	HR 5392	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.0475	Observer's specified target RA [deg]
dec_targ	5.82	Observer's specified target Dec [deg]
ra_nom	216.04214011528	Nominal RA [deg]
dec_nom	5.8202194354329	Nominal Dec [deg]
roll_nom	236.77405918343	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3043.1999886632	Sum of GTIs [s]
livetime	3004.6651580117	Livetime [s]
ontime0	3043.1999886632	Sum of GTIs [s]
ontime1	3043.1999886632	Sum of GTIs [s]
ontime2	3043.1999886632	Sum of GTIs [s]
ontime3	3043.1999886632	Sum of GTIs [s]
ontime6	3043.1999886632	Sum of GTIs [s]
ontime7	3043.1999886632	Sum of GTIs [s]
l2events	23621	Number of level 2 events



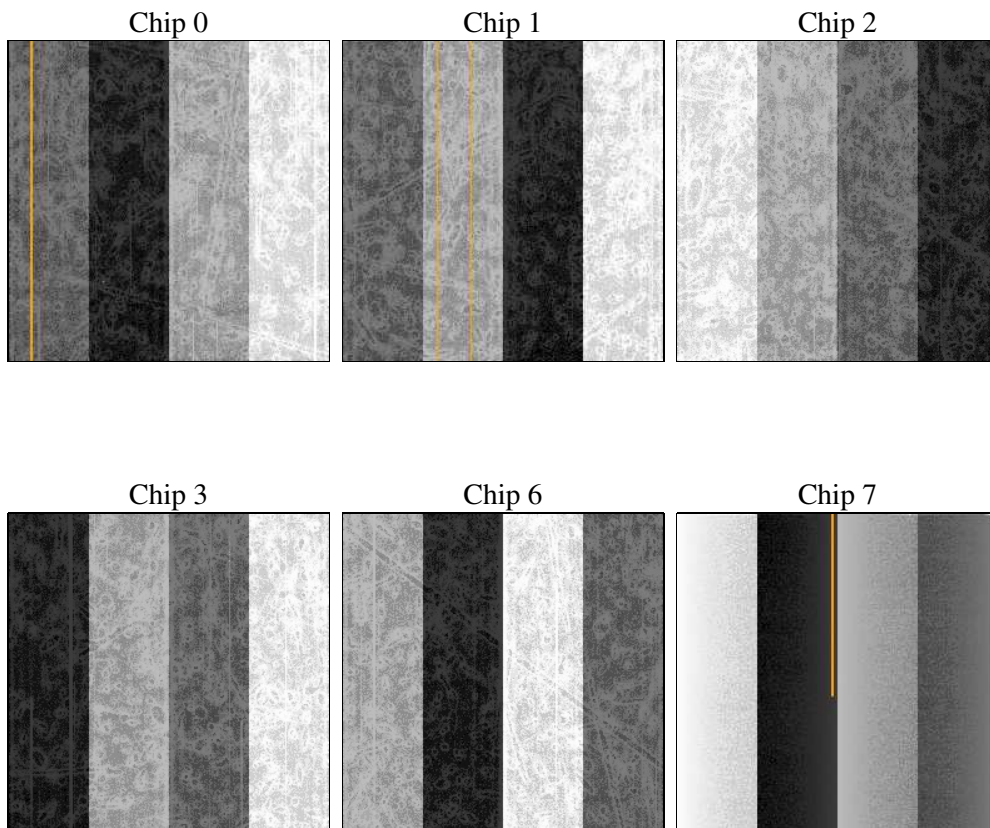
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2905.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3043.1999886632	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	3043.1999886632	Sum of GTIs [s]
date	2020-09-26T19:45:58	Date and time of file creation	ontime1	3043.1999886632	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3043.1999886632	Sum of GTIs [s]
			ontime3	3043.1999886632	Sum of GTIs [s]
			ontime6	3043.1999886632	Sum of GTIs [s]
			ontime7	3043.1999886632	Sum of GTIs [s]
			l1events	149541	Number of level 1 events

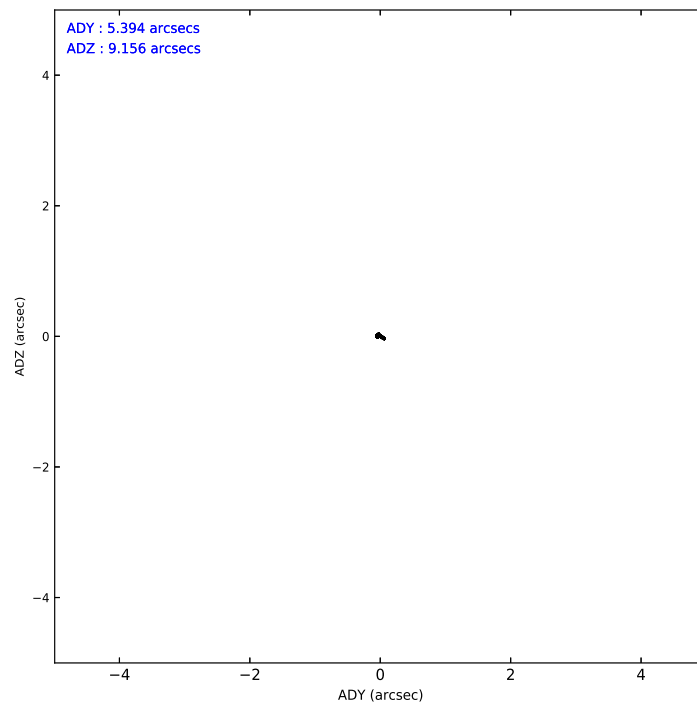
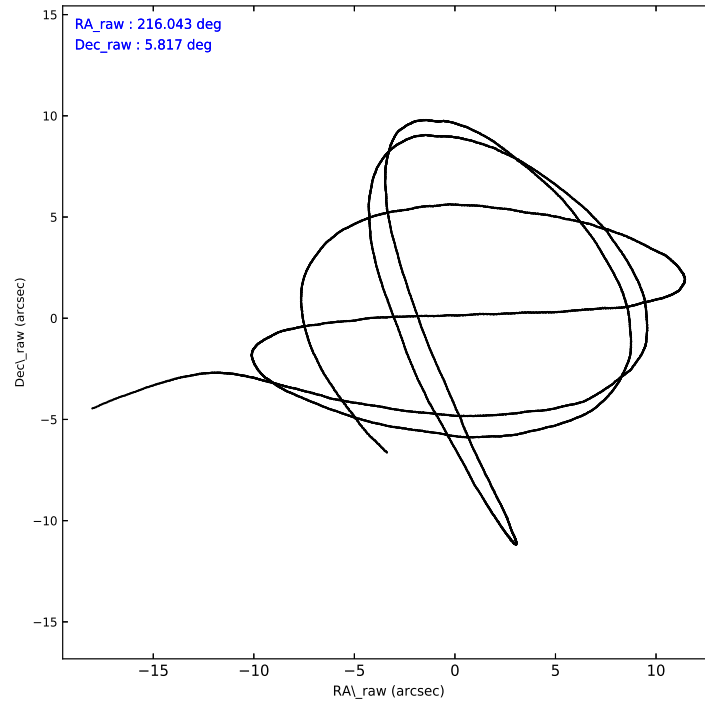
### 2.1.4 Events

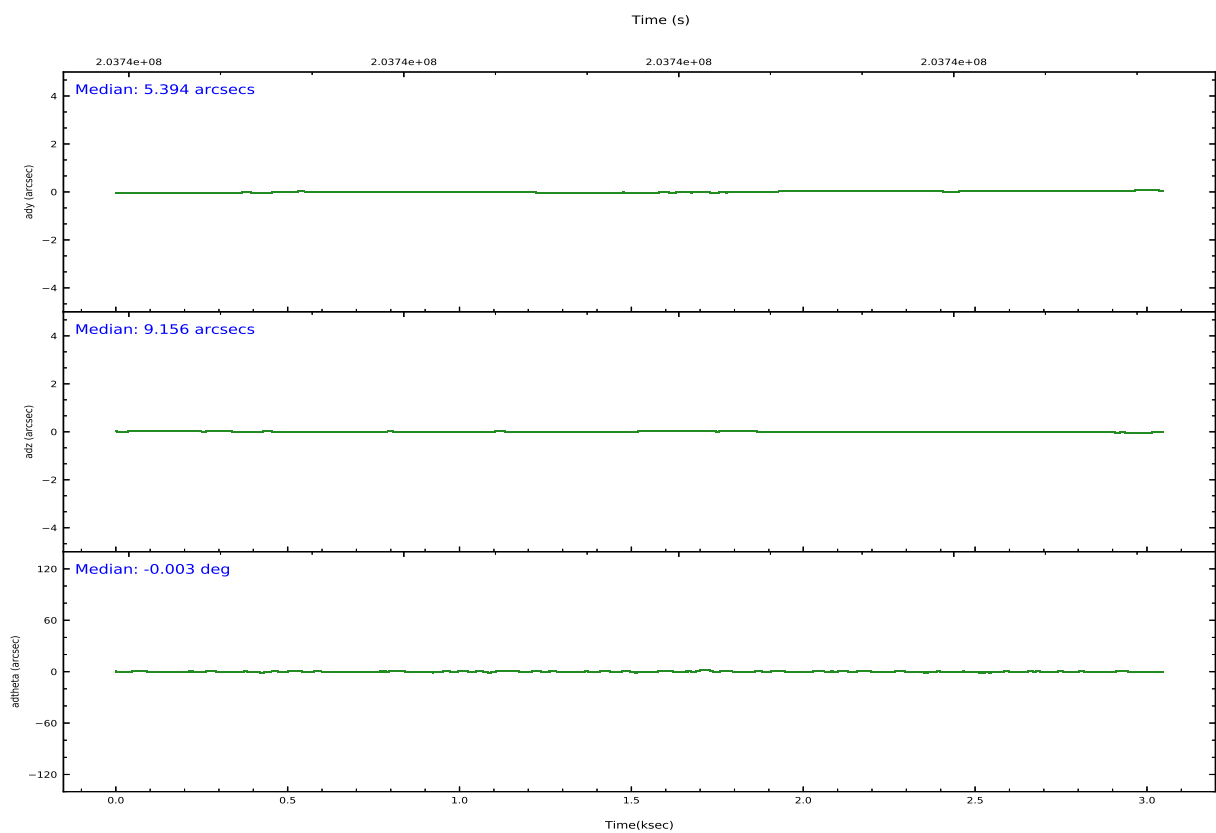
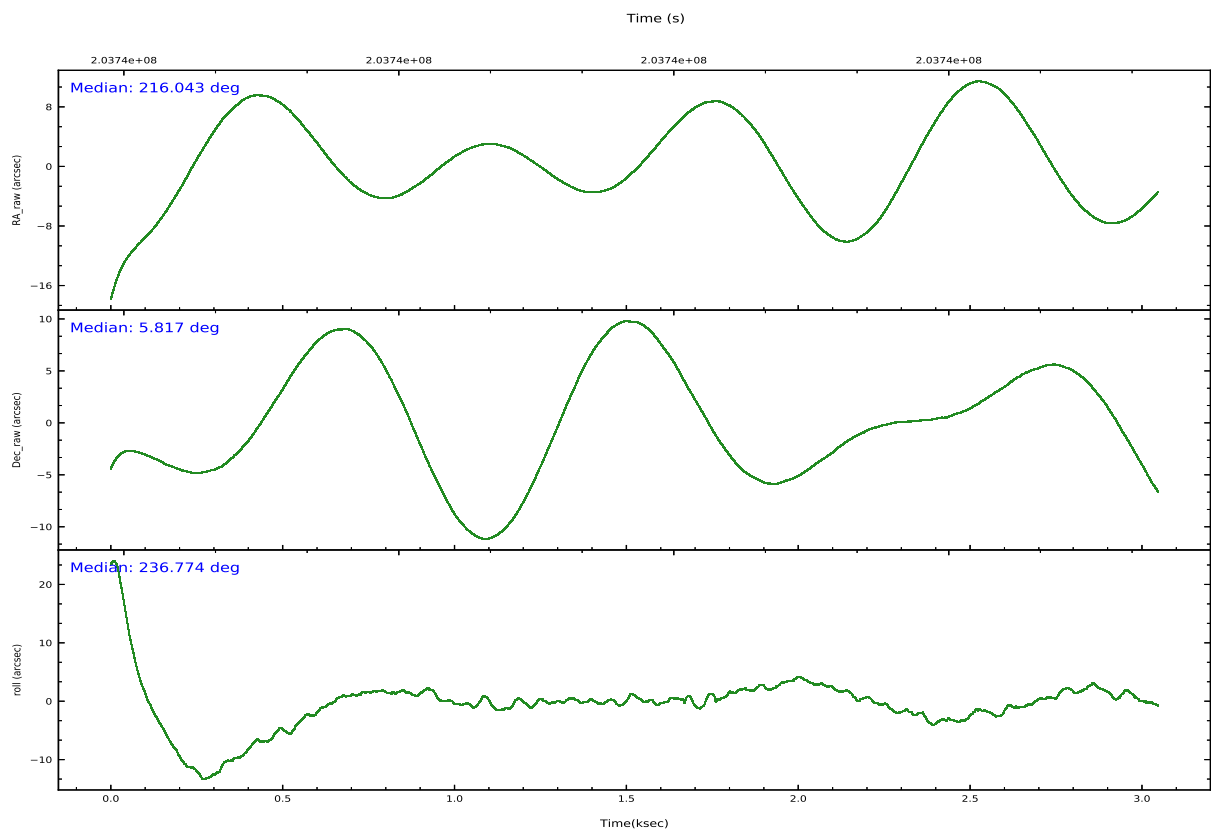
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	22055	20969	25150	24296	24580	32491	grade 0 events	1189	1167	1213	1295	1223	1222
rejected events	19420	18179	22620	21673	21778	19962		5%	5%	4%	5%	4%	3%
rejected %	88%	86%	89%	89%	88%	61%	grade 1 events	16	8	12	19	9	27
								0%	0%	0%	0%	0%	0%
							grade 2 events	622	631	561	491	610	2655
								2%	3%	2%	2%	2%	8%
							grade 3 events	285	291	254	276	291	1188
								1%	1%	1%	1%	1%	3%
							grade 4 events	235	314	261	263	274	1230
								1%	1%	1%	1%	1%	3%
							grade 5 events	935	1071	959	1079	1095	3083
								4%	5%	3%	4%	4%	9%
							grade 6 events	490	577	444	463	602	7167
								2%	2%	1%	1%	2%	22%
							grade 7 events	18283	16910	21446	20410	20476	15919
								82%	80%	85%	84%	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	216.045062	216.04214011528	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.844768	5.8202194354329	Alternating exposures requested	N	N
[deg] Pointing Roll	236.571540	236.77405918343	[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)	203737705.184000	203736547.68178			
Observation start date	2004-06-16T01:47:21	2004-06-16T01:29:07			
[s] Observation end time (MET)	203740610.184000	203742131.36953			
Observation end date	2004-06-16T02:35:46	2004-06-16T03:02:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect





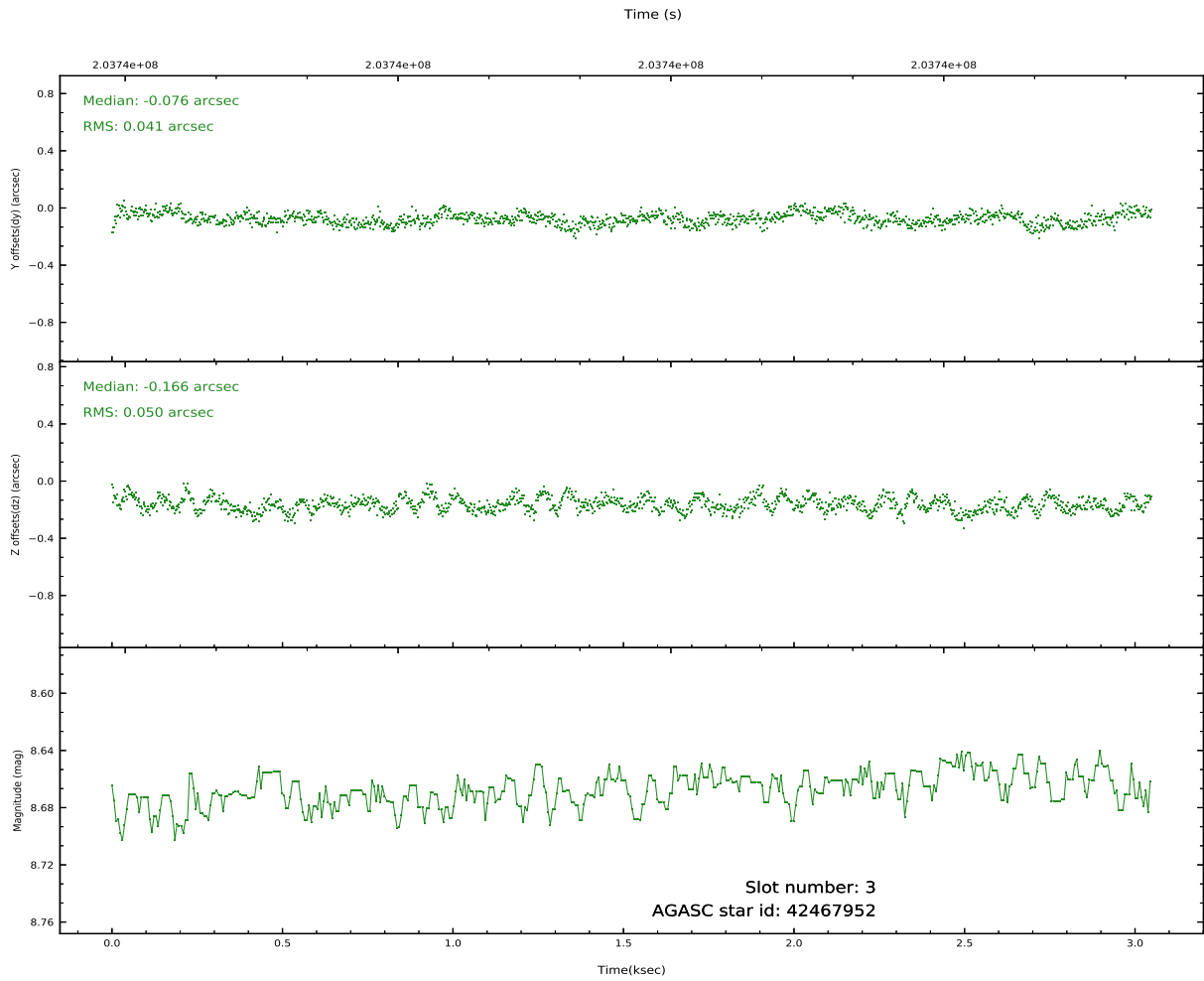
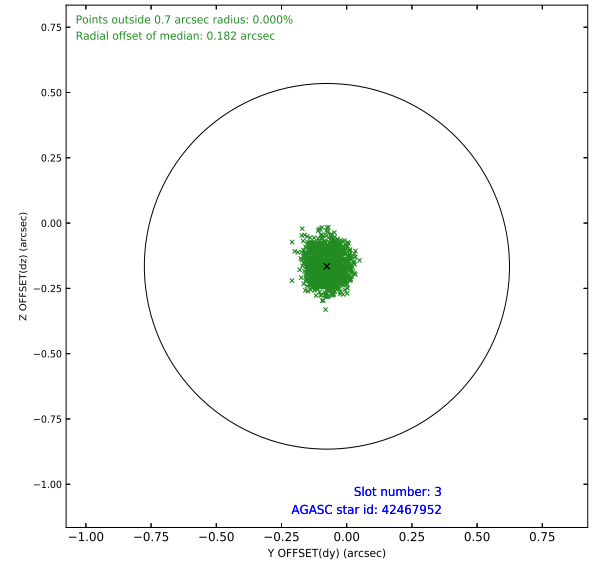
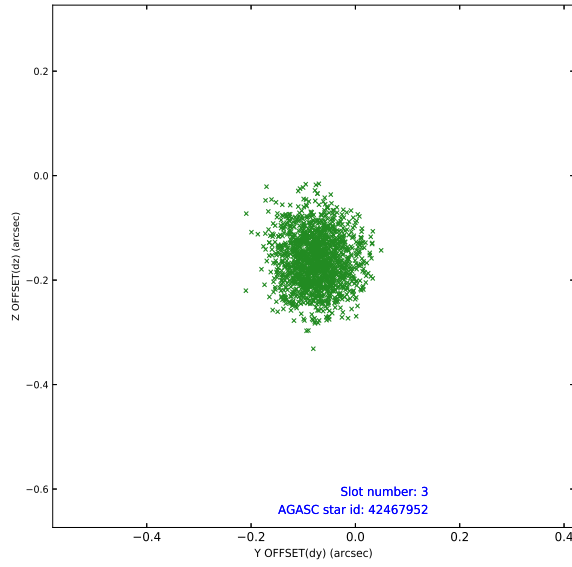
Slot Statistics

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	744	1.000	0.024	0.018	0.006	0.011	0.000000	0.000000	934.37	-832
1	FID		ACIS-I-5	7.23	744	1.000	-0.216	0.032	0.006	0.010	0.000000	0.000000	-1812.84	1063
2	FID		ACIS-I-6	7.25	744	1.000	0.100	0.020	0.007	0.011	0.000000	0.000000	397.68	1710
3	GUIDE	used	42467952	8.67	1488	1.000	-0.076	-0.166	0.069	0.109	215.893024	6.410373	-1399.53	-1575
4	GUIDE	used	42468176	7.08	1488	1.000	0.051	0.051	0.059	0.088	216.264127	5.615328	255.88	1109
5	GUIDE	used	42475488	7.11	1488	1.000	0.014	0.084	0.057	0.092	216.675900	5.934965	-1516.17	1707
6	GUIDE	used	42475656	9.25	1488	1.000	-0.055	-0.047	0.091	0.158	216.292958	6.120812	-1319.30	194
7	GUIDE	used	42478872	7.10	1487	1.000	0.070	0.070	0.055	0.094	216.002935	5.822971	147.90	-82

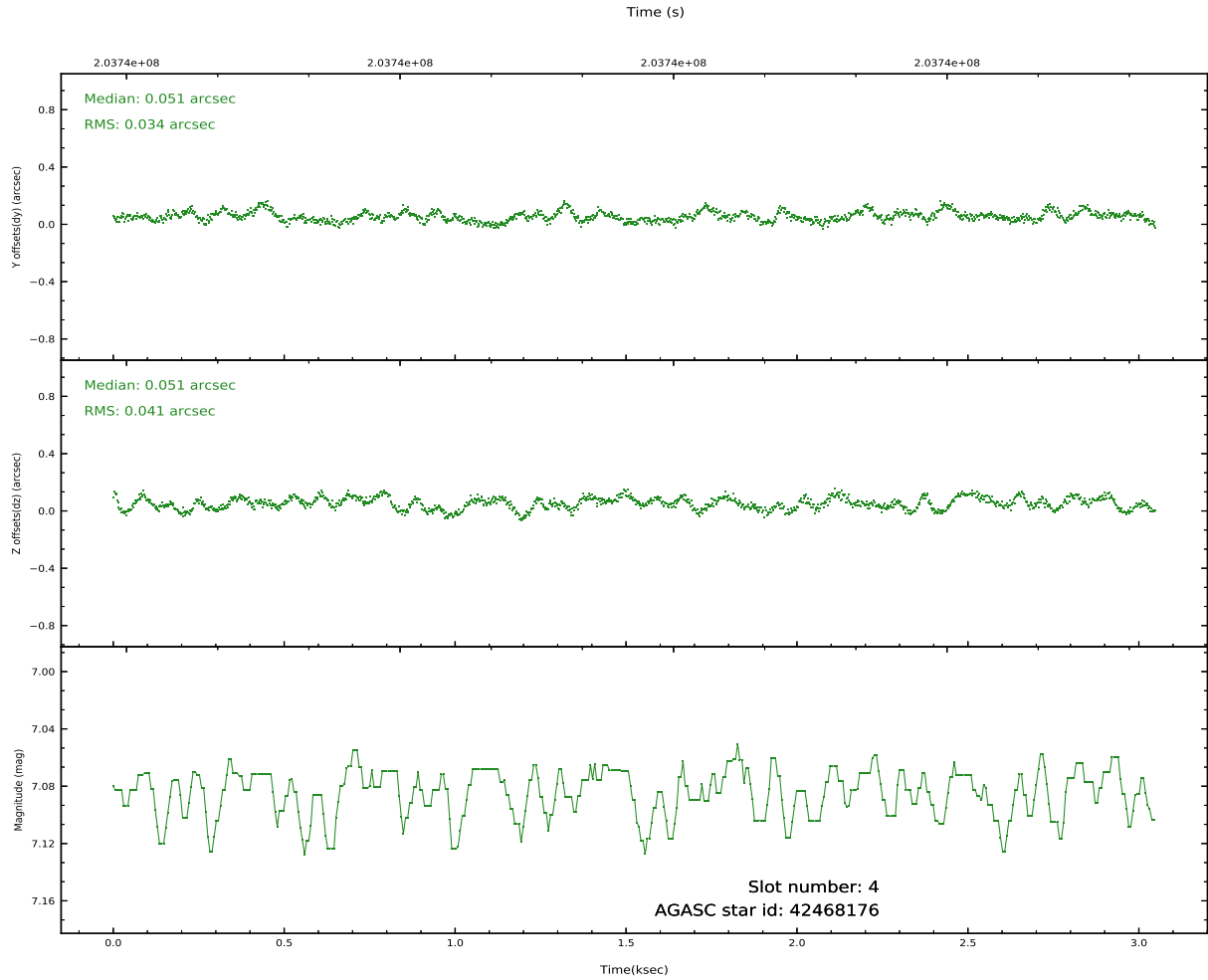
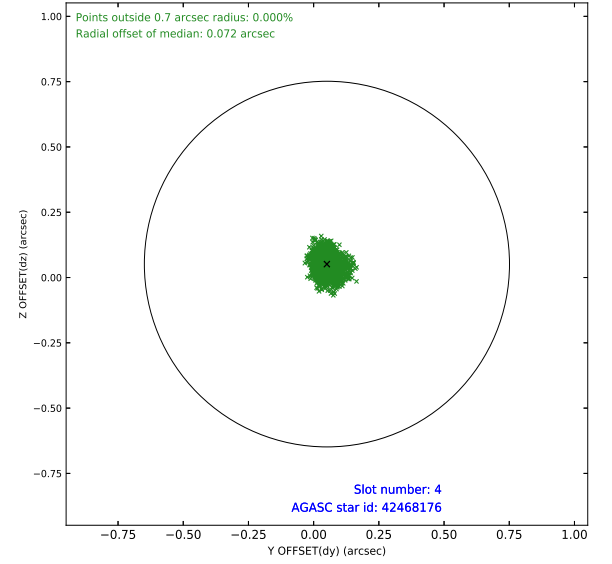
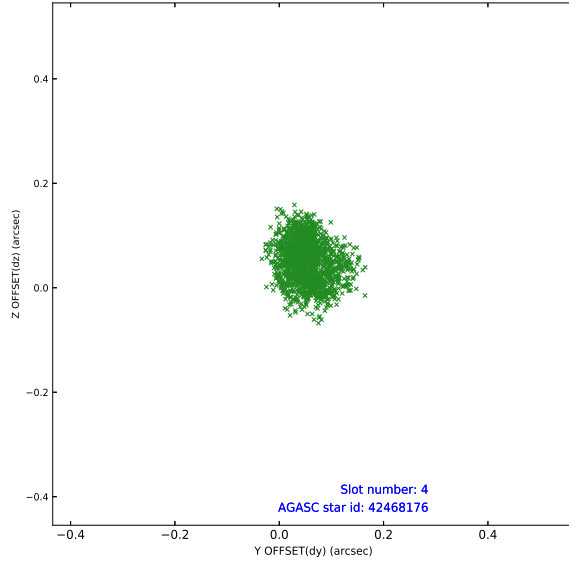


## 2.4 Star Slots

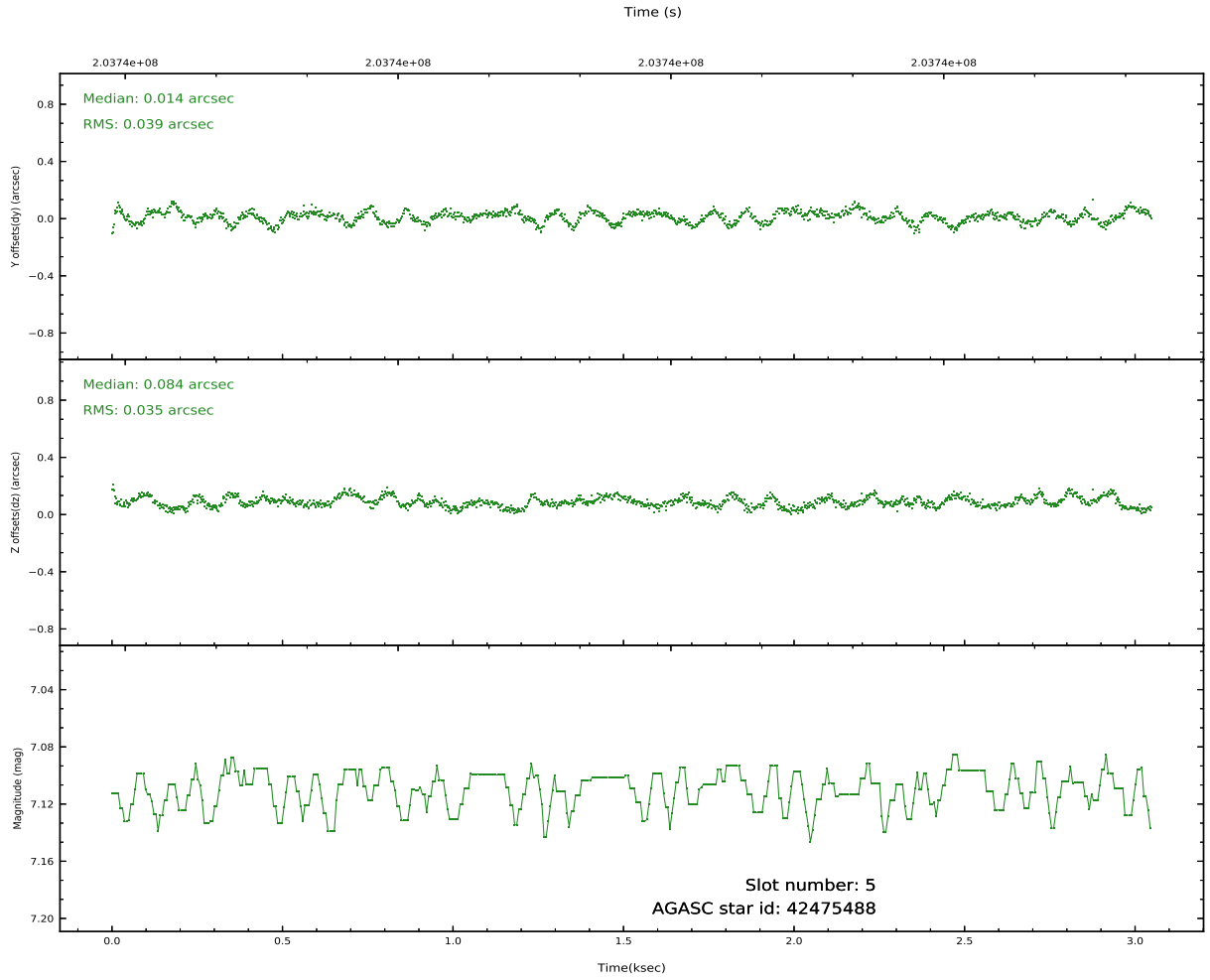
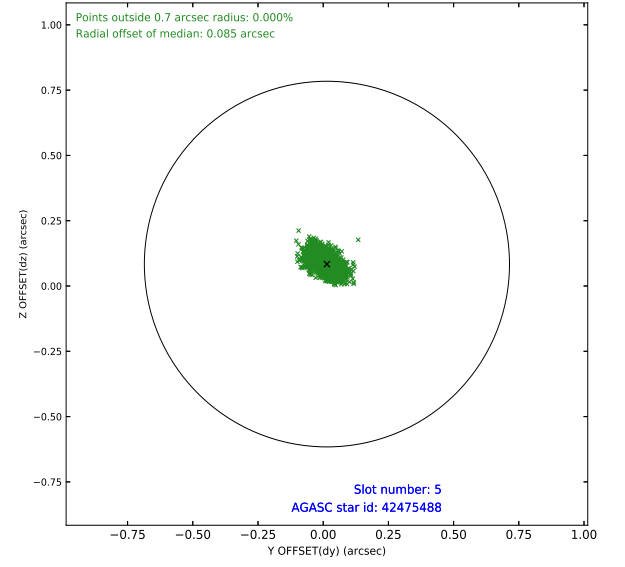
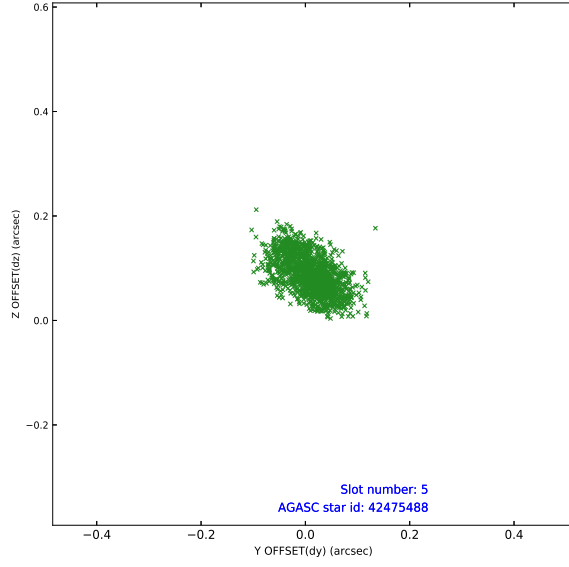
### 2.4.1 Slot 3



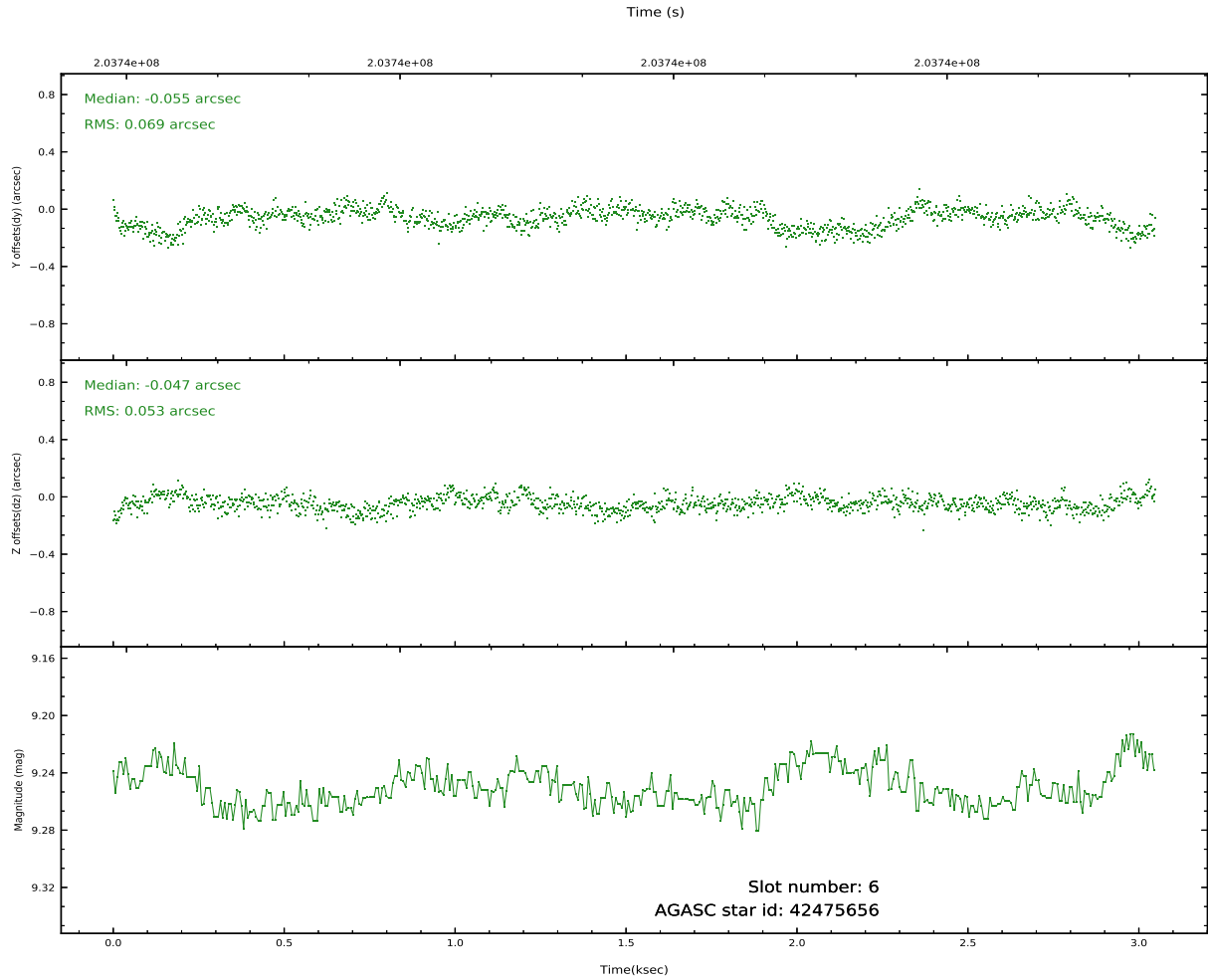
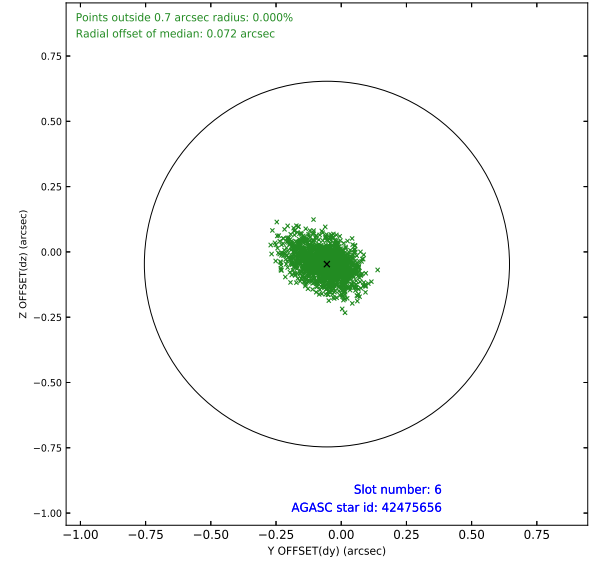
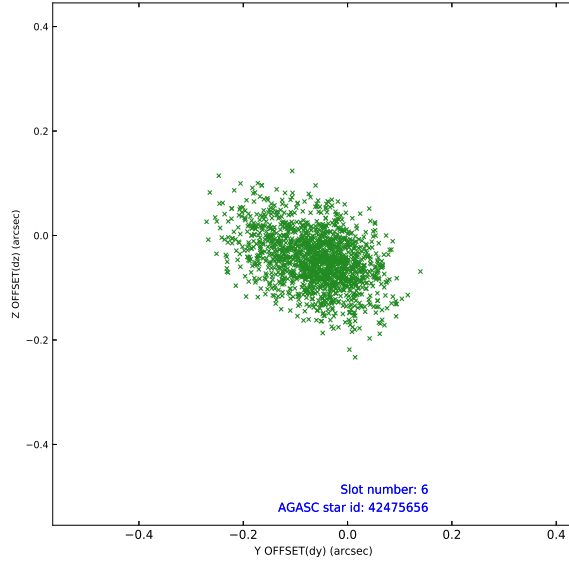
## 2.4.2 Slot 4



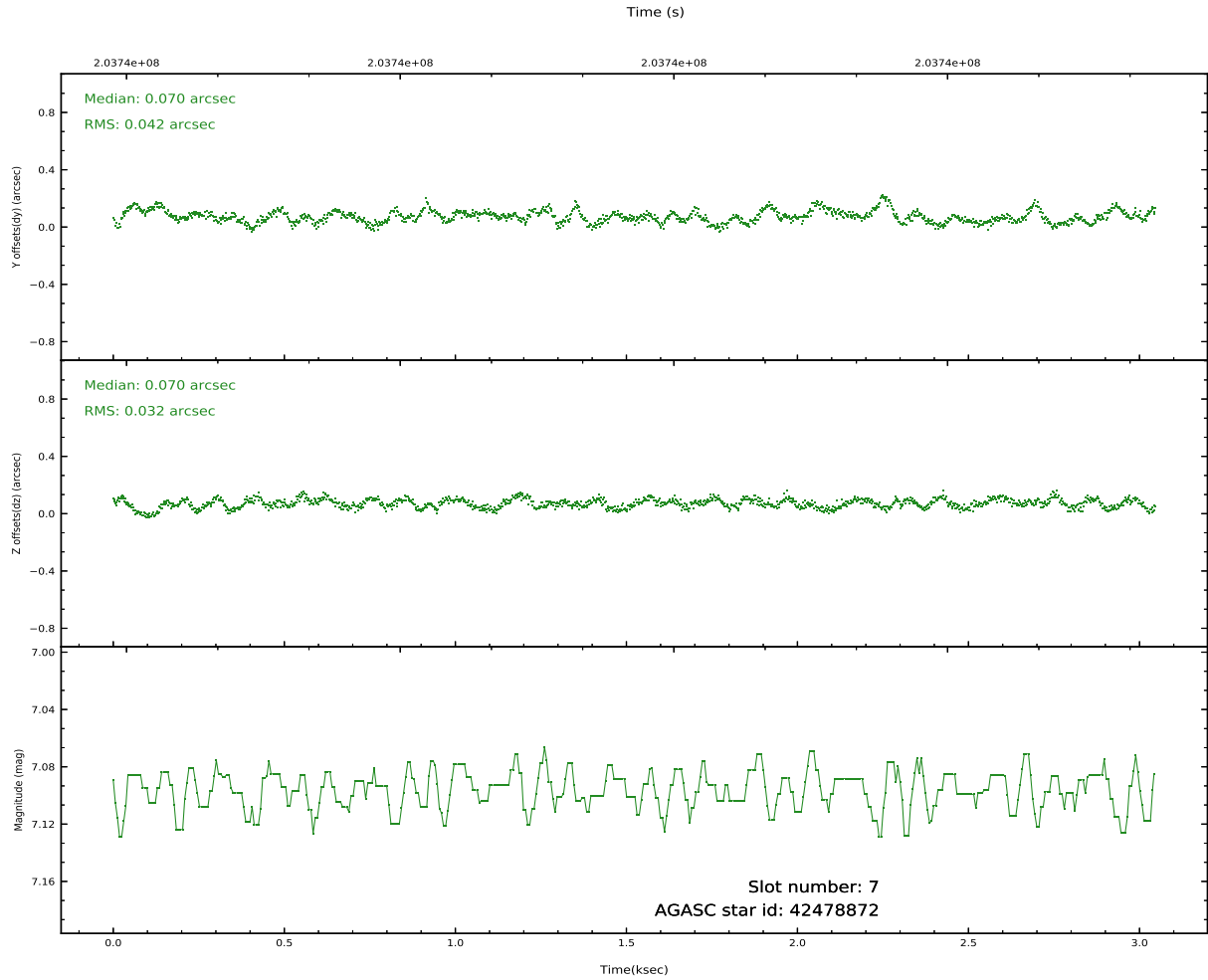
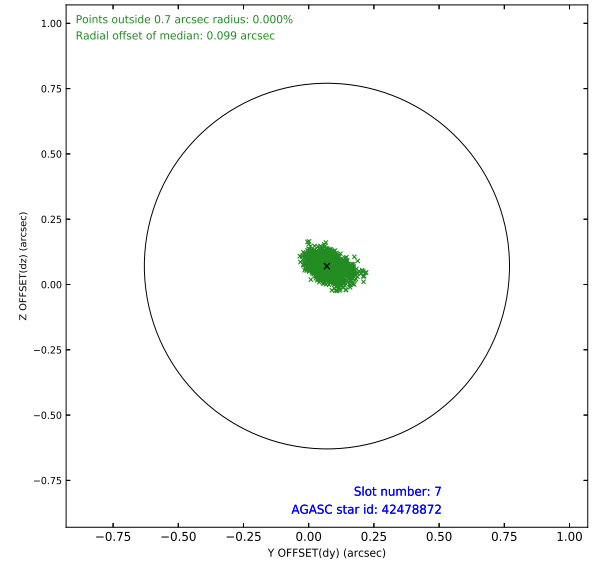
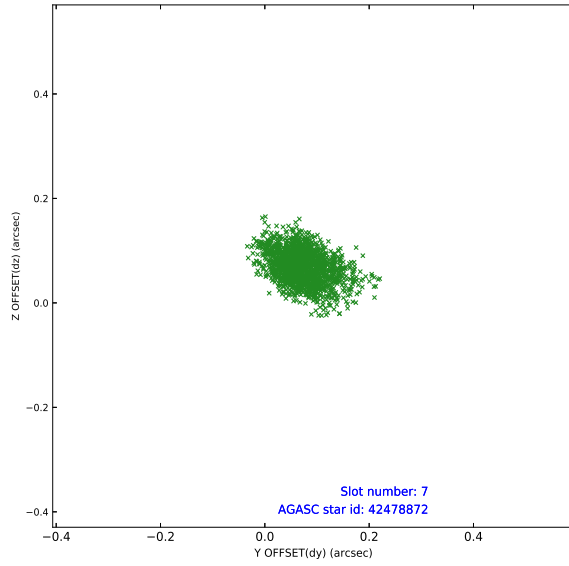
### 2.4.3 Slot 5



## 2.4.4 Slot 6

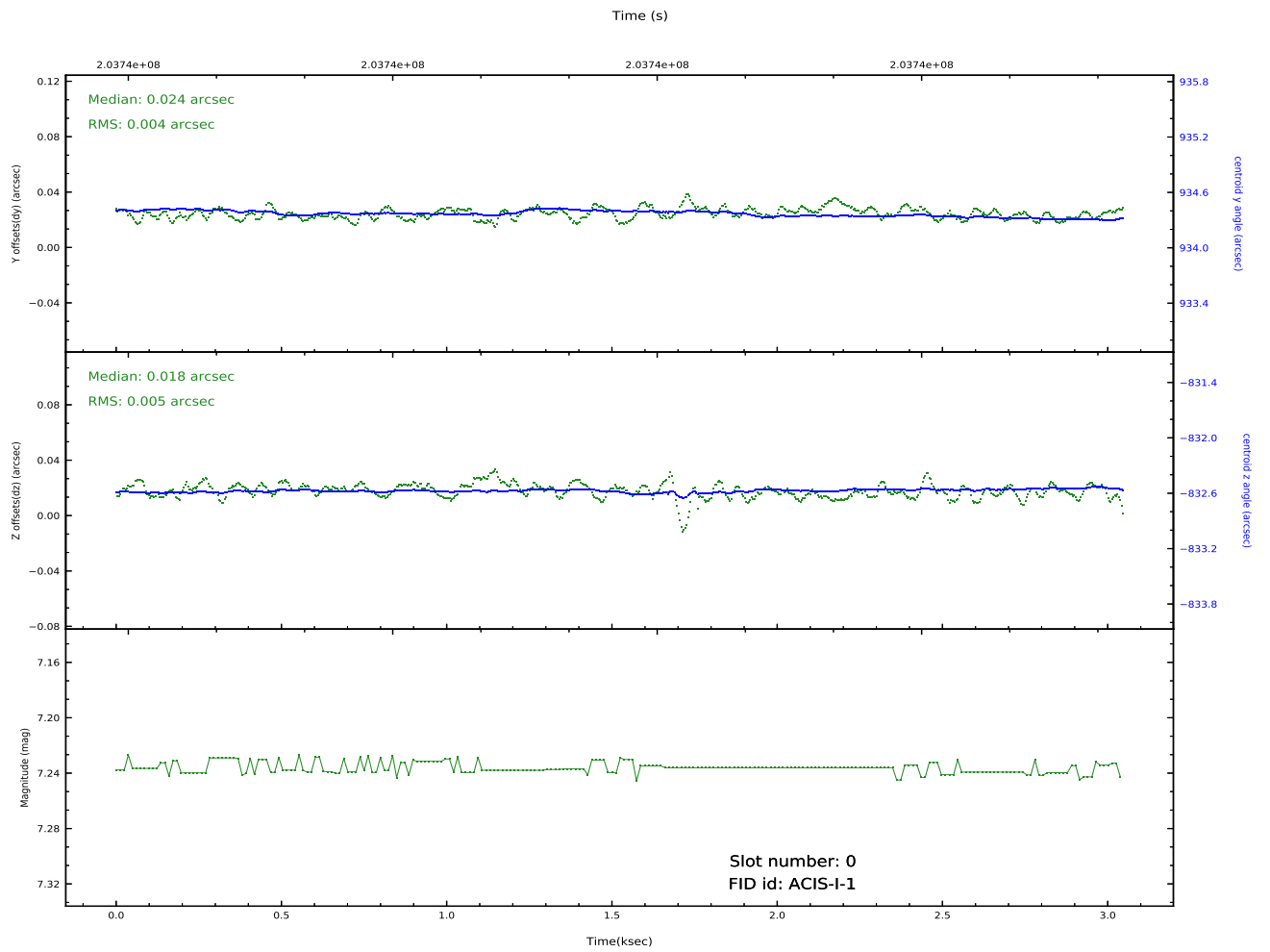
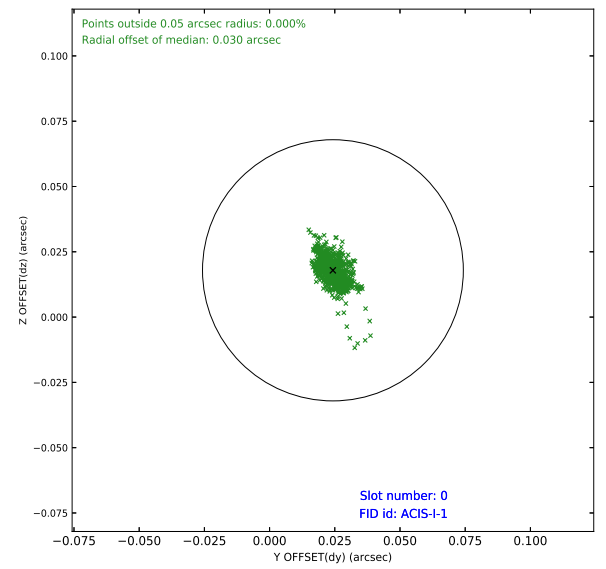
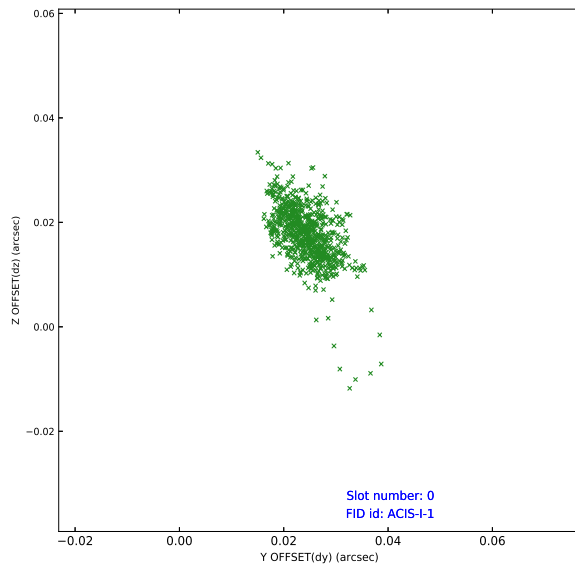


## 2.4.5 Slot 7

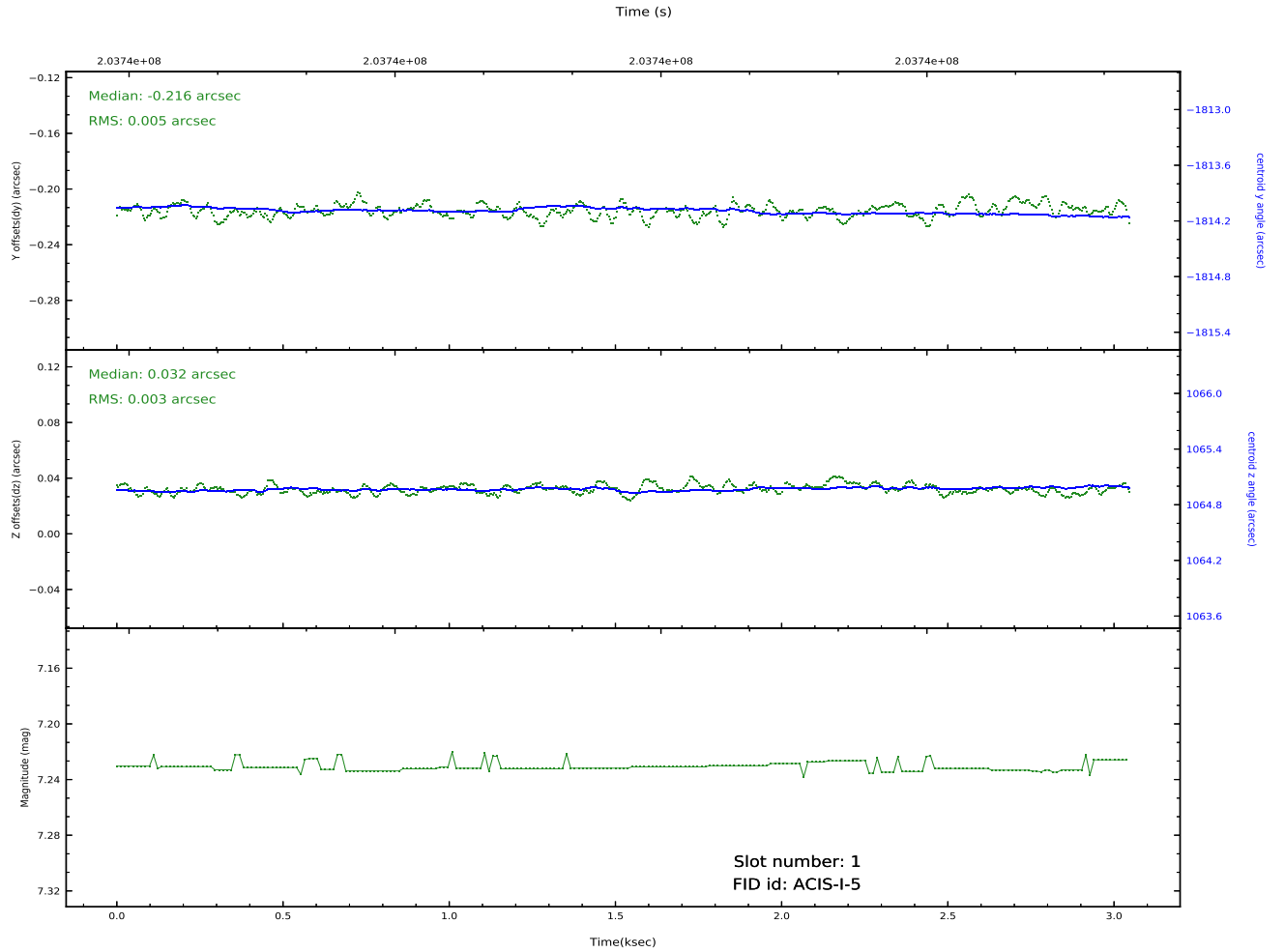
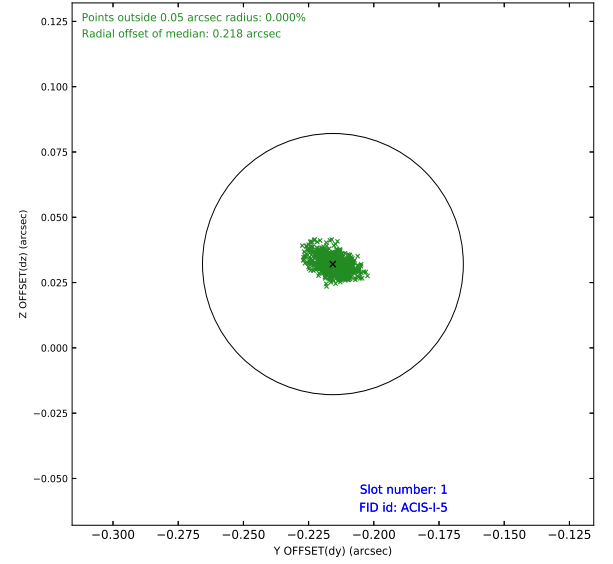
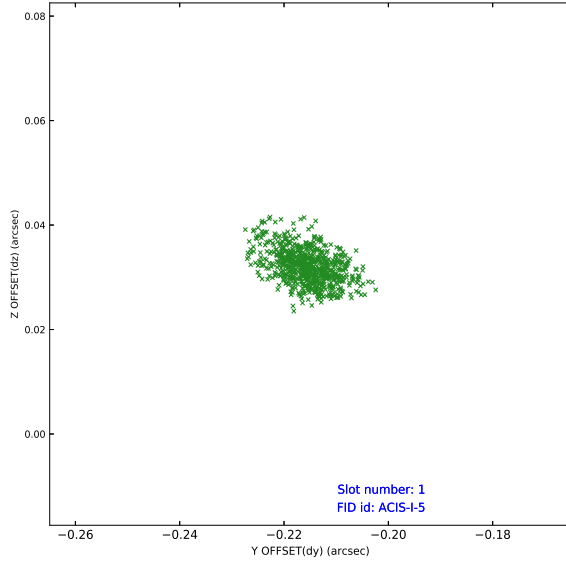


## 2.5 FID Slots

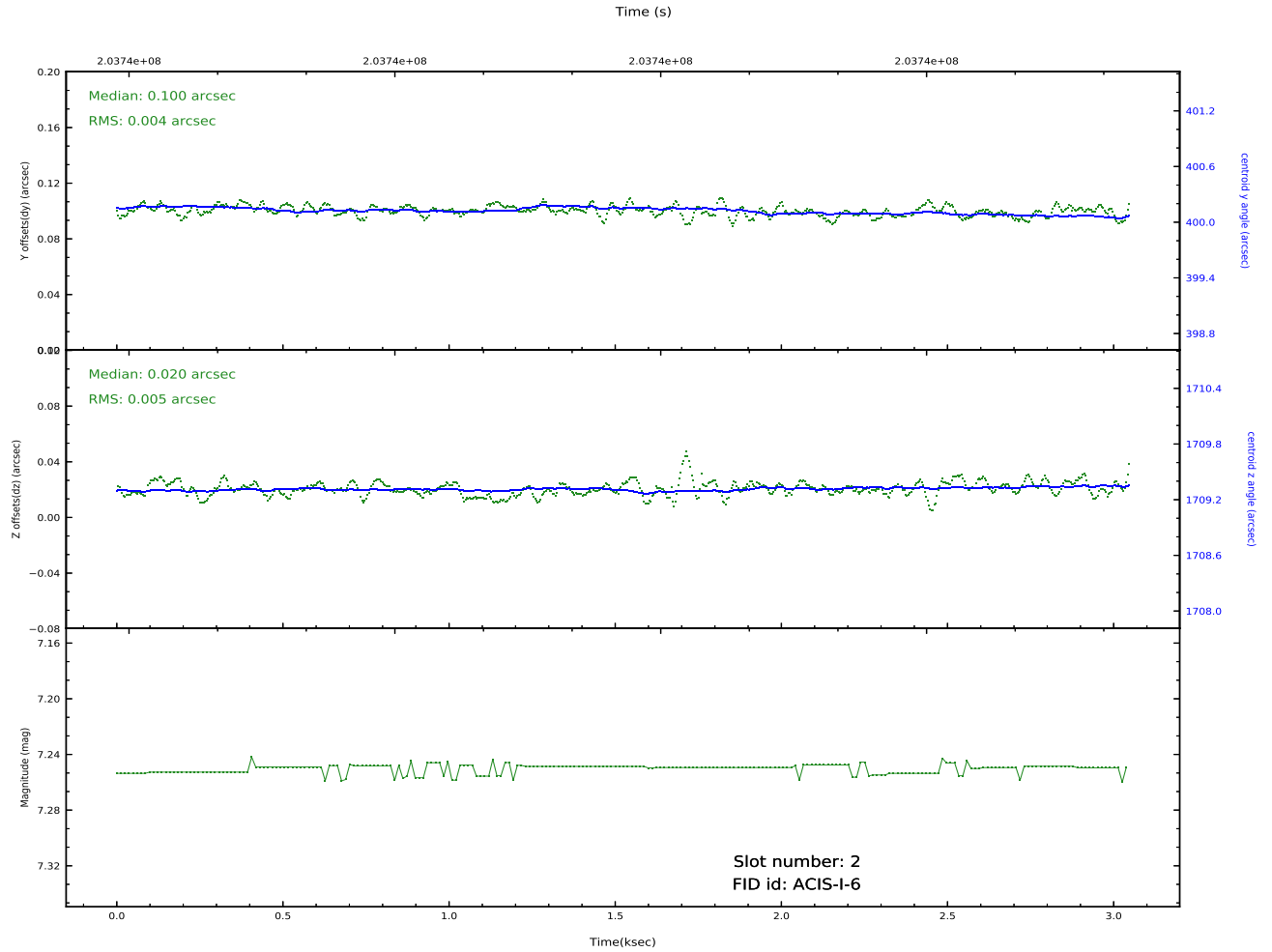
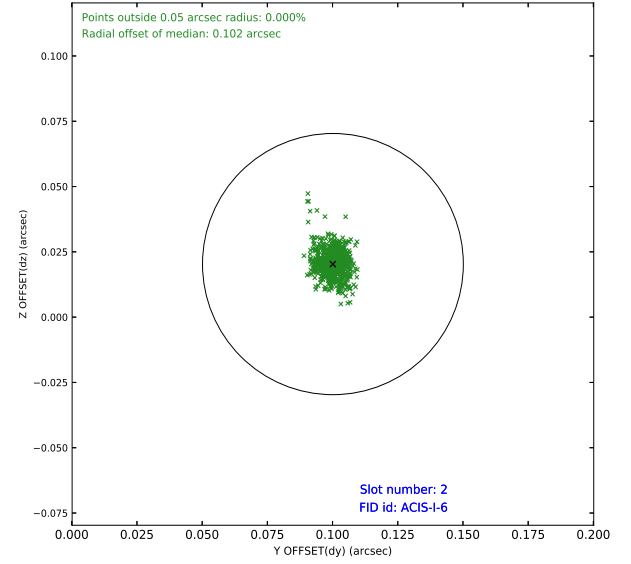
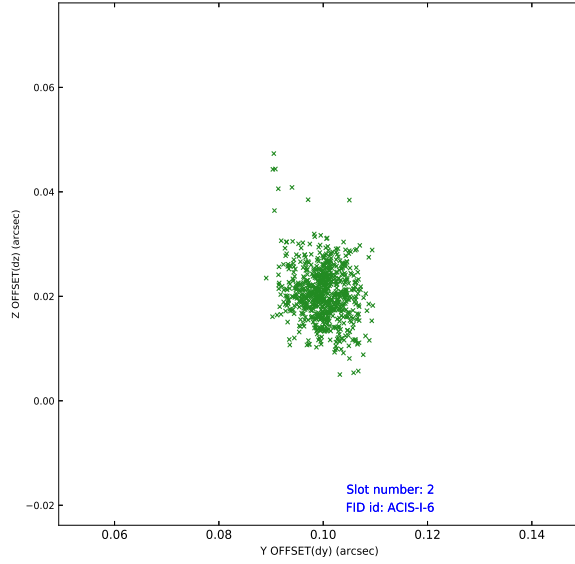
### 2.5.1 Slot 0



## 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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.043

### A.2 Comments