

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4652 - L2 Version 4  
Chandra X-Ray Center

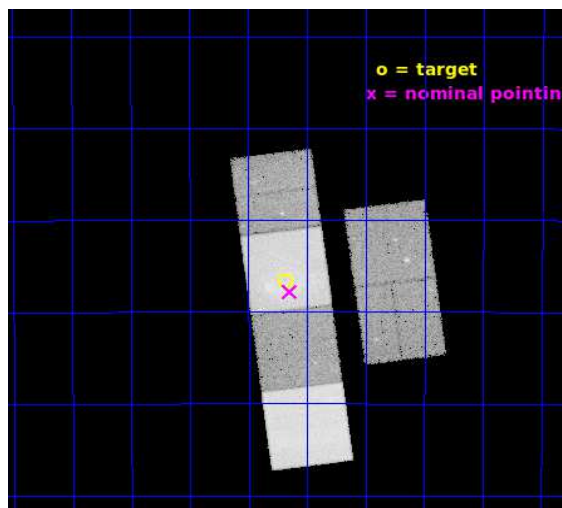
L2 Processing Date : Oct 2 2020

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# 1 Front

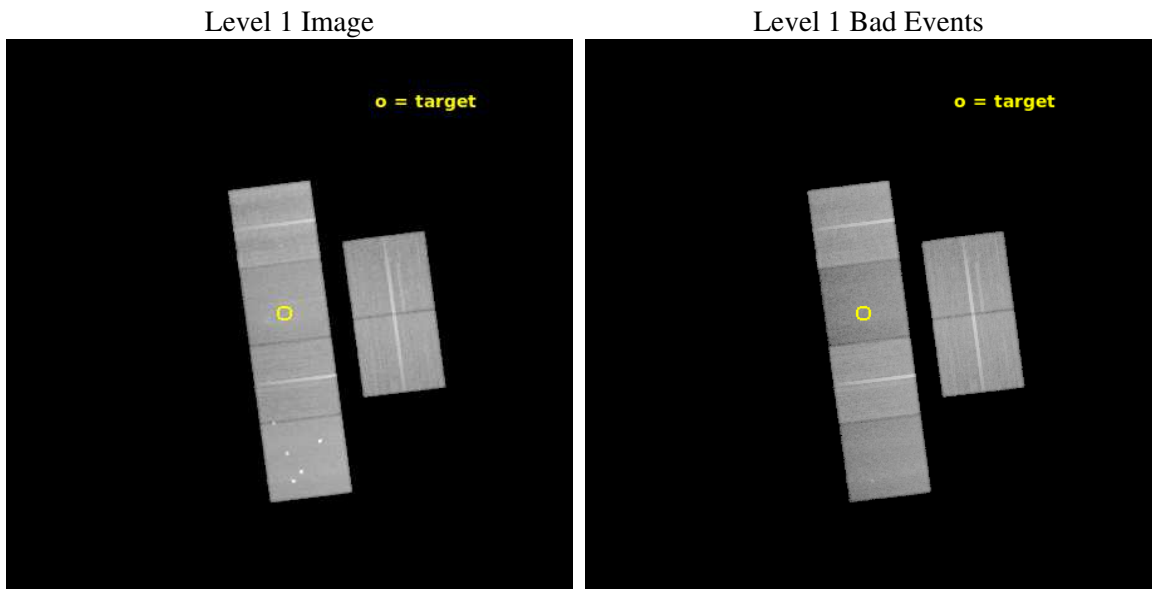
seq_num	500471	Sequence number
obs_id	4652	Observation id
title	Chandra Studies of New Galactic Ejecta-Dominated SNRS	Proposal tit
observer	John P. Hughes	Principal investigator
object	SNR G352.7-0.1	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	261.920833	Observer's specified target RA [deg]
dec_targ	-35.1125	Observer's specified target Dec [deg]
ra_nom	261.91164946666	Nominal RA [deg]
dec_nom	-35.130172442034	Nominal Dec [deg]
roll_nom	262.58663184022	Nominal Roll [deg]
revision	4	Processing version of data
ontime	45155.199831784	Sum of GTIs [s]
livetime	44583.417502317	Livetime [s]
ontime2	45148.717851341	Sum of GTIs [s]
ontime3	45145.476990759	Sum of GTIs [s]
ontime5	45155.199831784	Sum of GTIs [s]
ontime6	45145.4768911	Sum of GTIs [s]
ontime7	45155.199831784	Sum of GTIs [s]
ontime8	45155.199831784	Sum of GTIs [s]
l2events	404191	Number of level 2 events



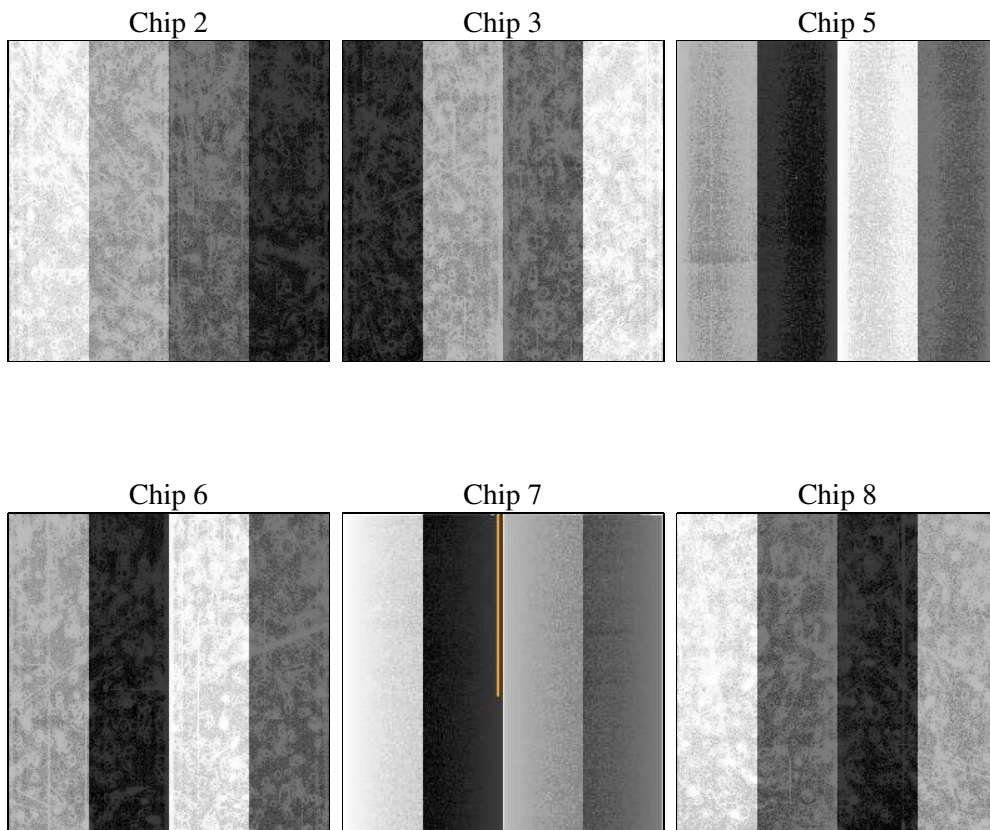
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	45155.199831784	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime2	45148.717851341	Sum of GTIs [s]
date	2020-10-02T21:39:03	Date and time of file creation	ontime3	45145.476990759	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	45155.199831784	Sum of GTIs [s]
			ontime6	45145.4768911	Sum of GTIs [s]
			ontime7	45155.199831784	Sum of GTIs [s]
			ontime8	45155.199831784	Sum of GTIs [s]
			l1events	1850947	Number of level 1 events

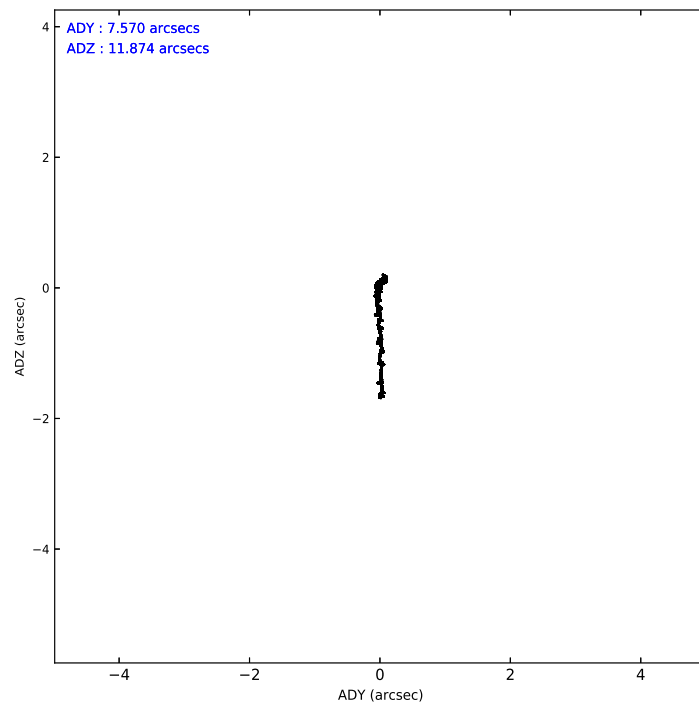
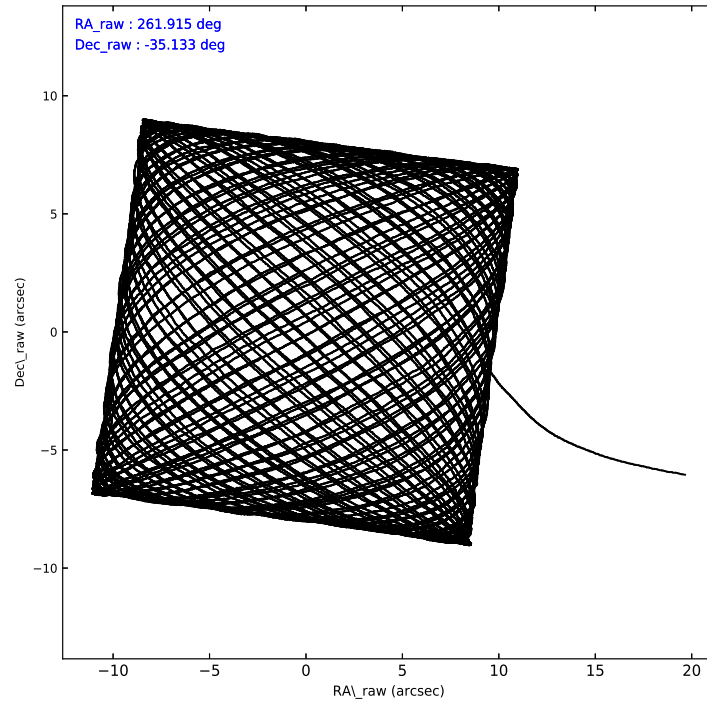
### 2.1.4 Events

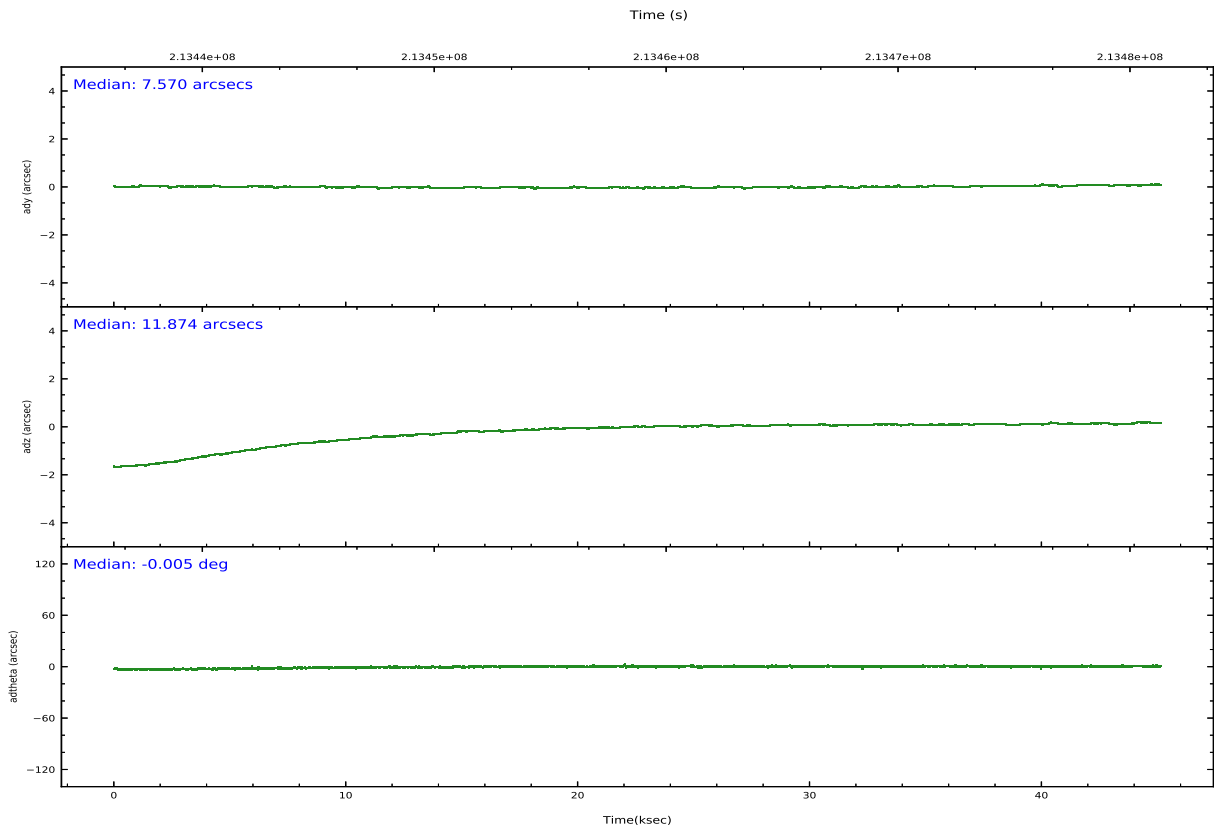
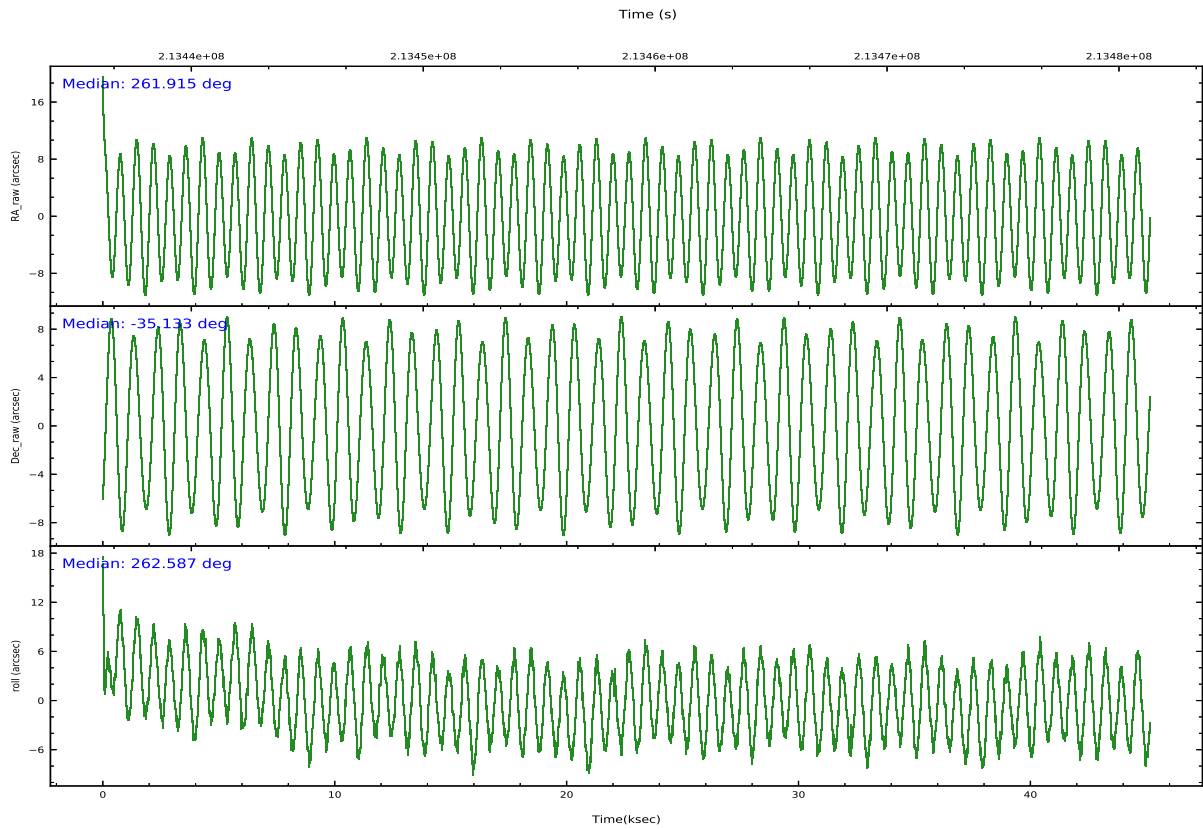
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	306279	279625	356836	287986	272442	347779	grade 0 events	11248	10661	37099	12437	15569	23249
rejected events	277932	252471	157502	256972	131315	266920		3%	3%	10%	4%	5%	6%
rejected %	90%	90%	44%	89%	48%	76%	grade 1 events	167	139	594	148	277	246
								0%	0%	0%	0%	0%	0%
							grade 2 events	6556	5579	55502	6432	30691	18603
								2%	1%	15%	2%	11%	5%
							grade 3 events	2946	3127	8872	3370	13900	9163
								0%	1%	2%	1%	5%	2%
							grade 4 events	2985	3060	8889	3254	14229	8500
								0%	1%	2%	1%	5%	2%
							grade 5 events	8084	9082	28601	9546	28713	14178
								2%	3%	8%	3%	10%	4%
							grade 6 events	4677	4792	89370	5593	67092	21441
								1%	1%	25%	1%	24%	6%
							grade 7 events	269616	243185	127909	247206	101971	252399
								88%	86%	35%	85%	37%	72%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	261.902279	261.91164946666	Subarray requested	NONE	NONE
[deg] Pointing Dec	-35.107796	-35.130172442034	Alternating exposures requested	N	N
[deg] Pointing Roll	262.427788	262.58663184022	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	213436345.184000	213435233.9258			
Observation start date	2004-10-06T07:51:21	2004-10-06T07:33:53			
[s] Observation end time (MET)	213481345.184000	213482117.94039			
Observation end date	2004-10-06T20:21:21	2004-10-06T20:35:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect





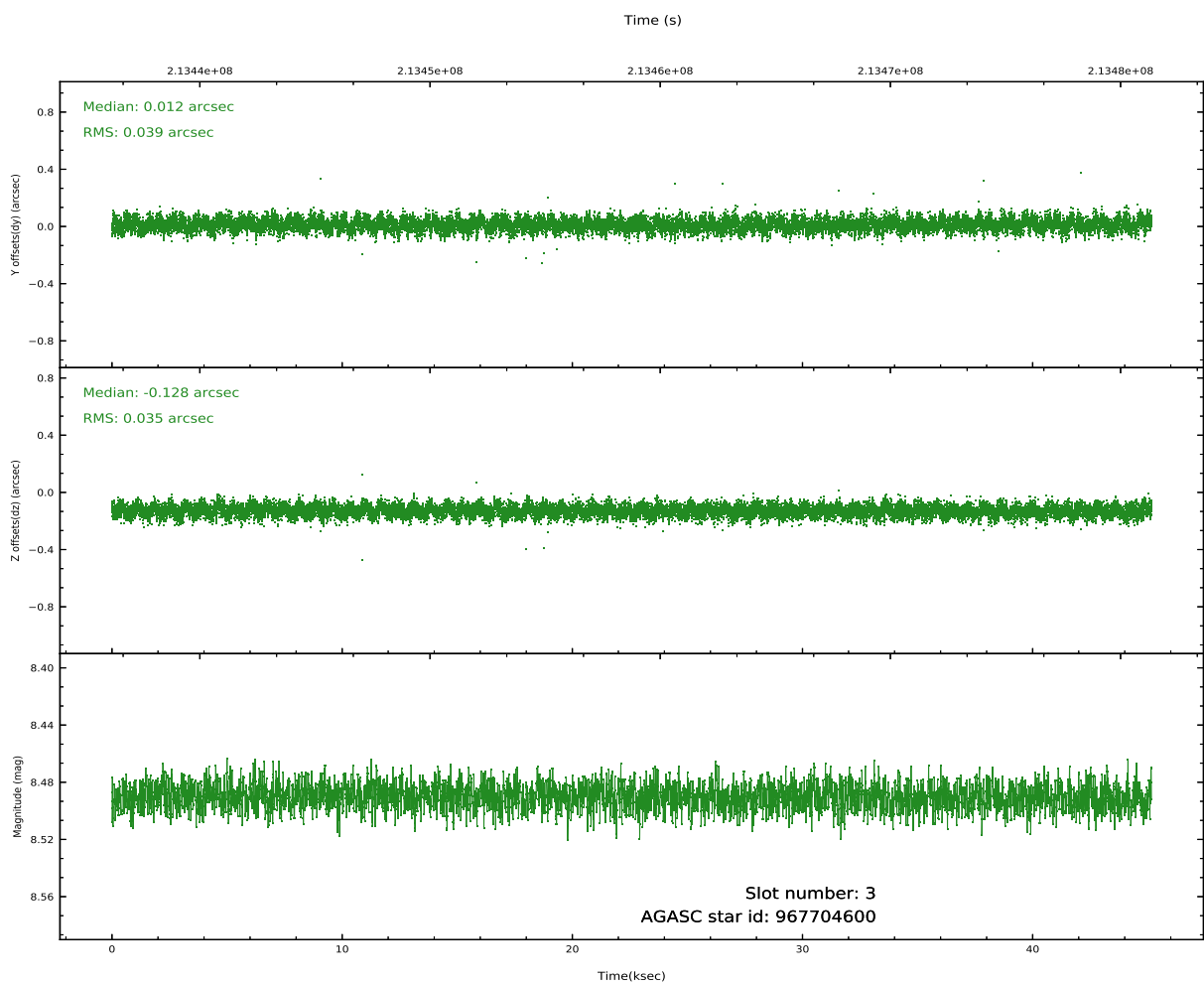
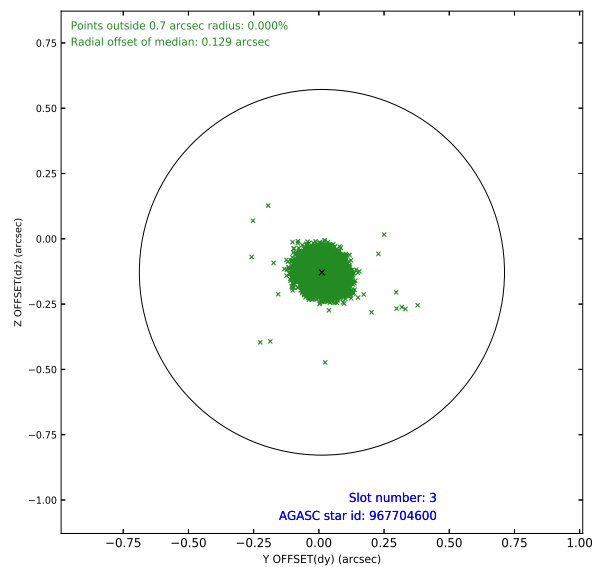
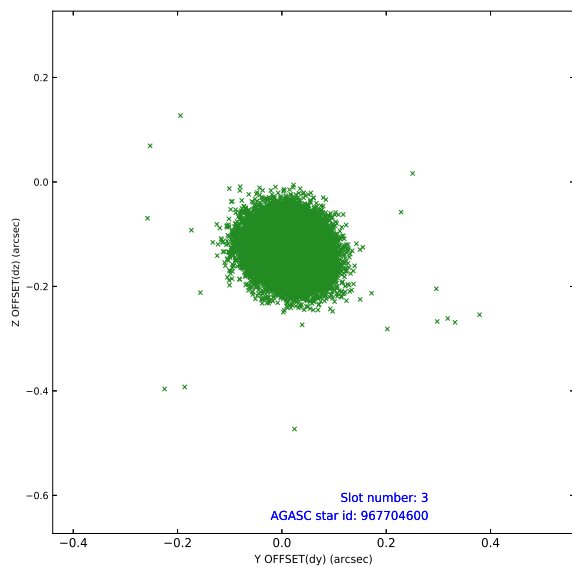
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	11015	1.000	0.015	-0.091	0.010	0.037	0.000000	0.000000	935.69	-1728
1	FID		ACIS-S-2	7.10	11014	1.000	-0.108	-0.014	0.008	0.030	0.000000	0.000000	-760.34	-1733
2	FID		ACIS-S-4	7.20	11016	1.000	0.067	0.111	0.009	0.022	0.000000	0.000000	2153.01	175
3	GUIDE	used	967704600	8.49	22016	1.000	0.012	-0.128	0.056	0.089	262.063091	-34.610970	-1835.18	236
4	GUIDE	used	967706464	8.87	22028	1.000	0.088	-0.155	0.076	0.124	261.477528	-34.851379	-746.45	-1364
5	GUIDE	used	967707112	9.42	22009	1.000	0.061	0.168	0.088	0.140	262.317974	-34.973313	-638.91	1152
6	GUIDE	used	967708192	8.86	22016	1.000	-0.086	-0.089	0.067	0.107	261.540547	-34.557389	-1820.66	-1323
7	GUIDE	used	967705352	7.66	22027	1.000	-0.076	0.206	0.058	0.092	262.627740	-34.539041	-2305.79	1864

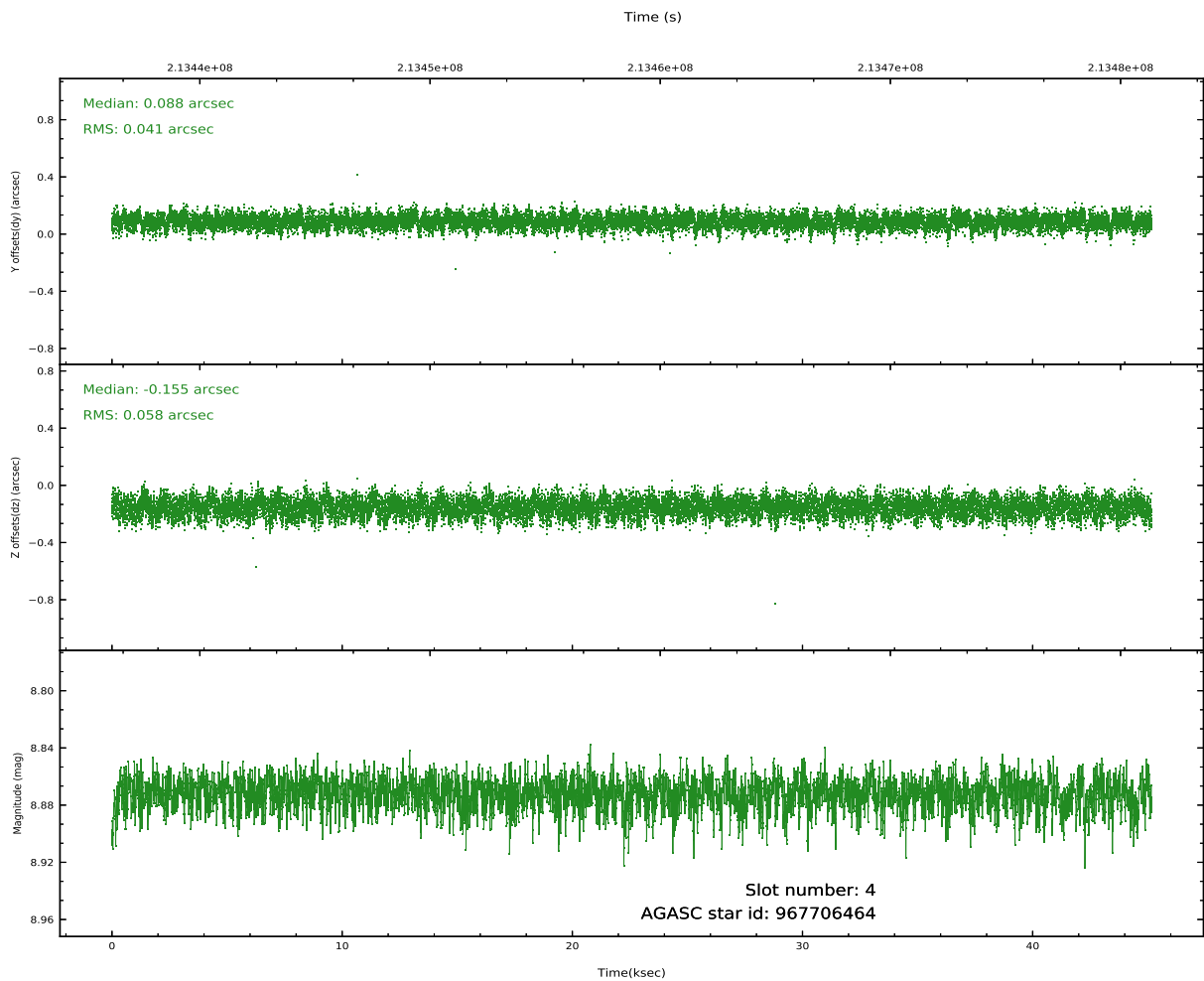
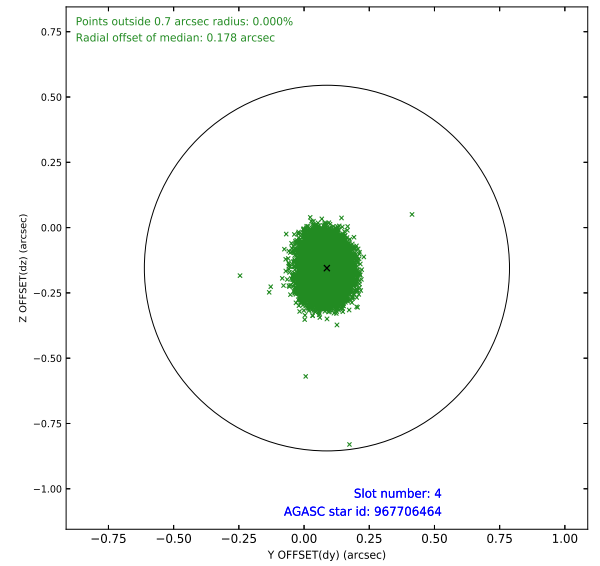
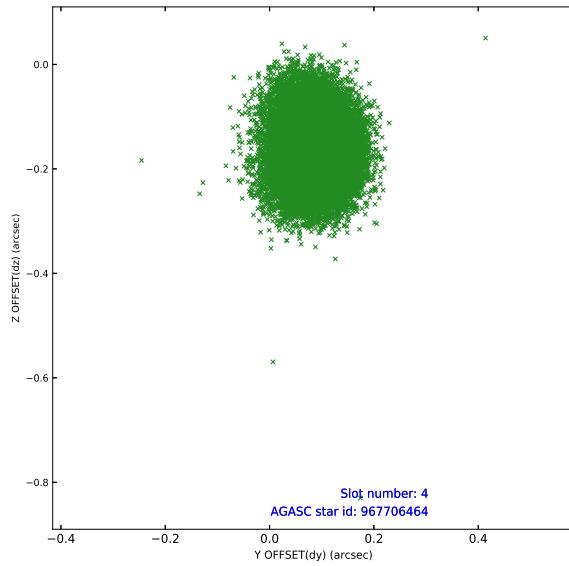
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## 2.4 Star Slots

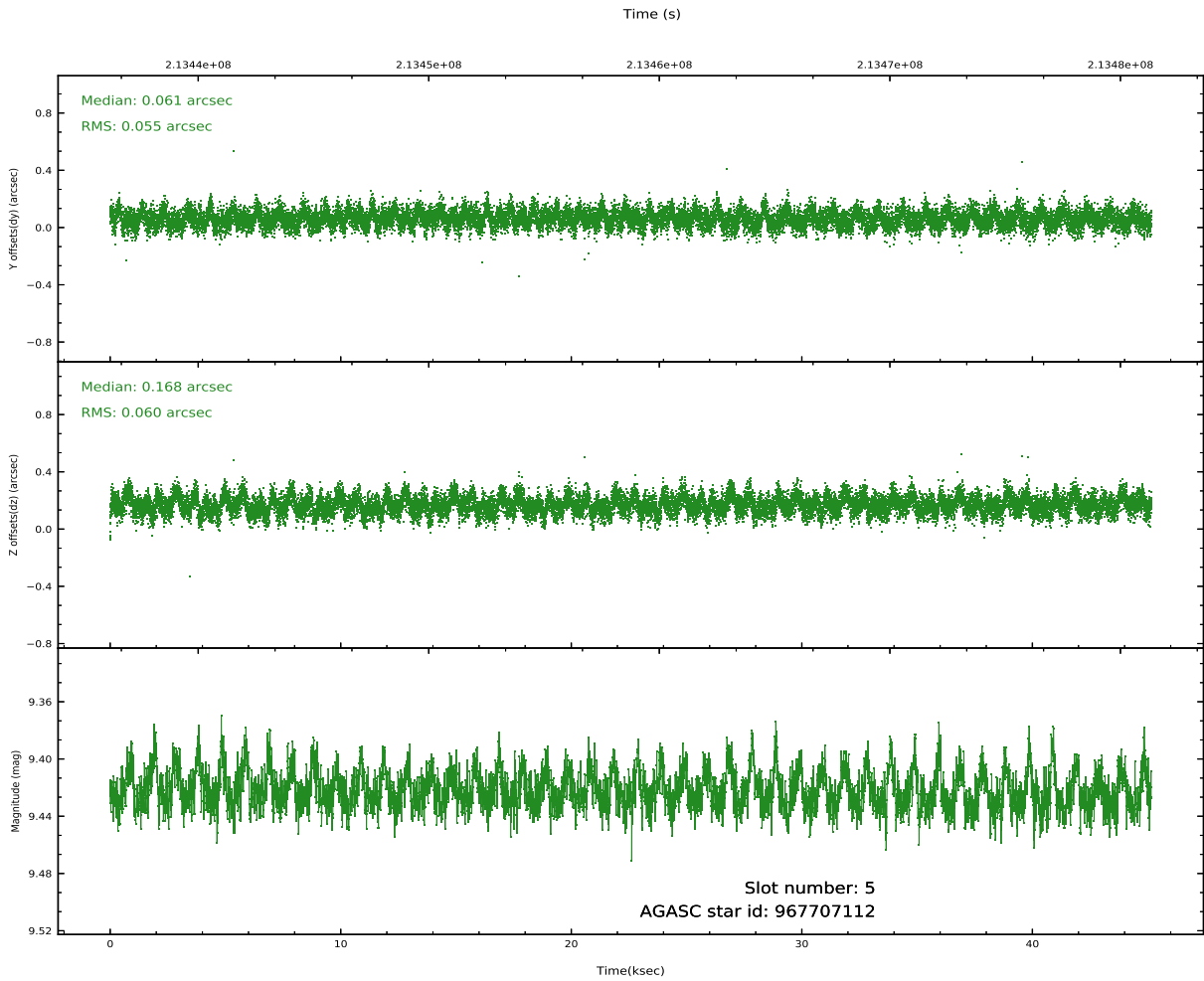
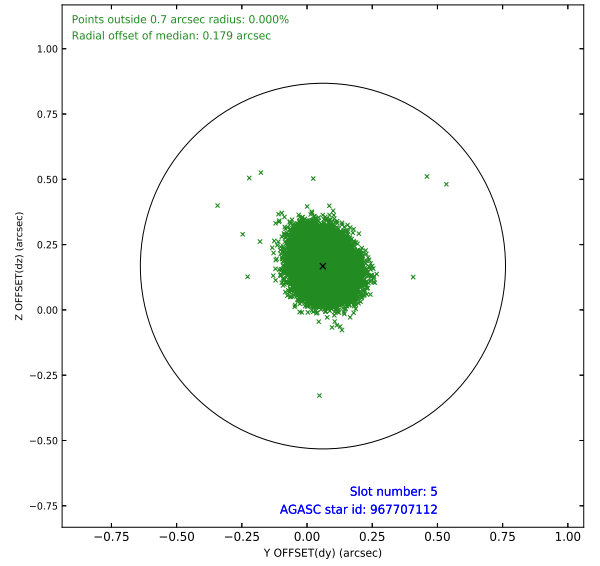
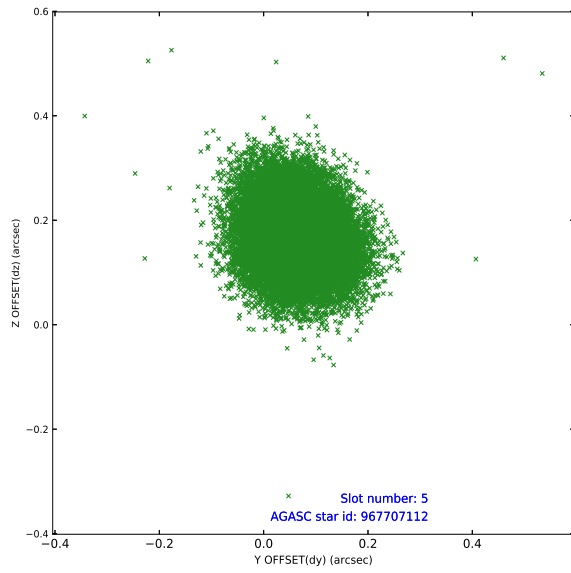
### 2.4.1 Slot 3



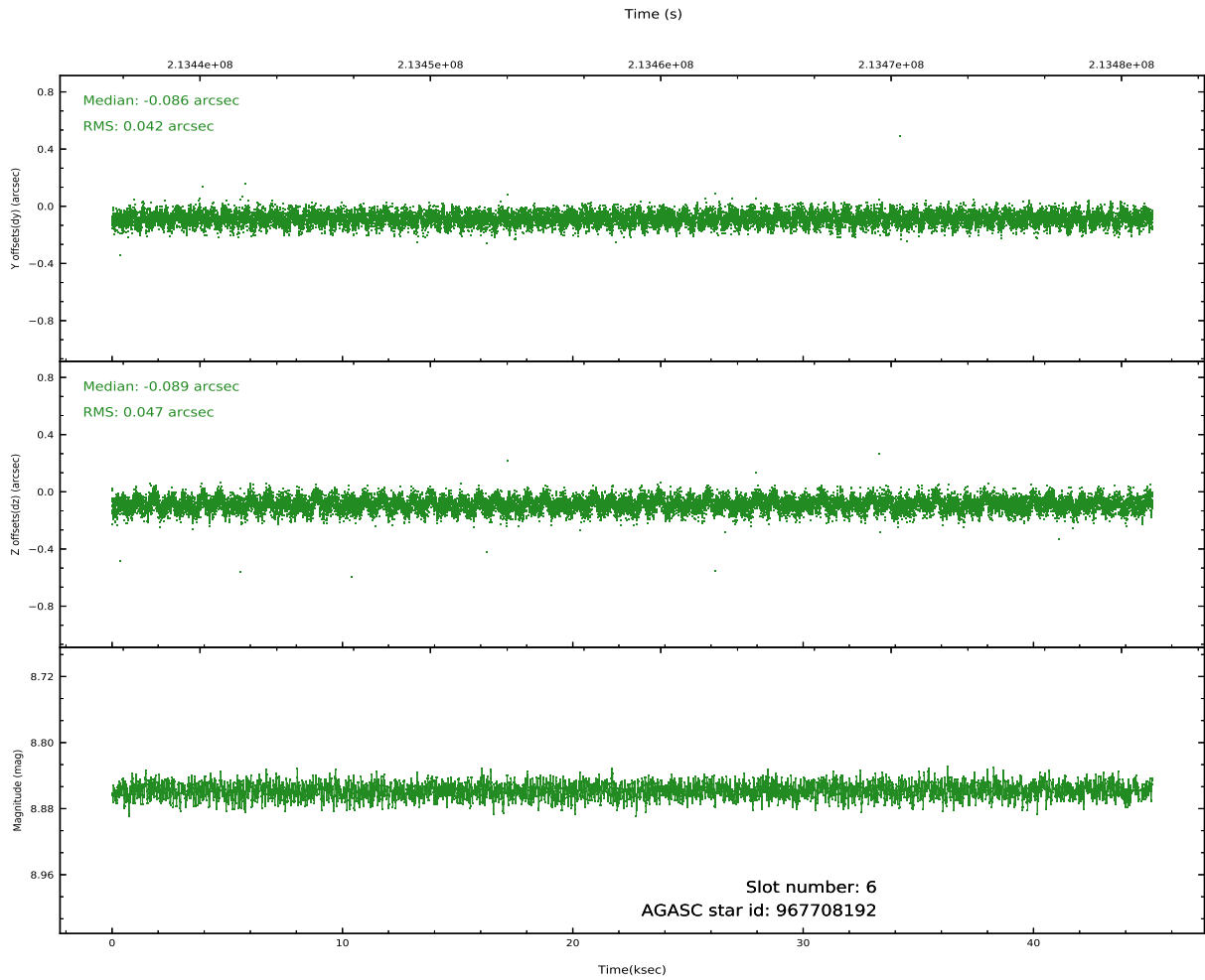
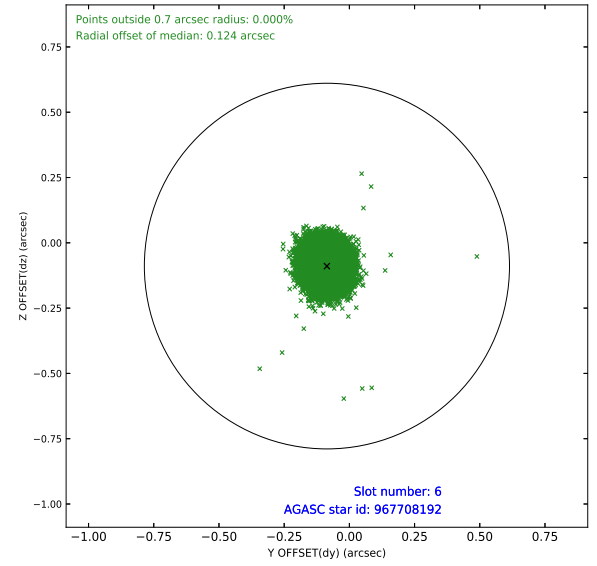
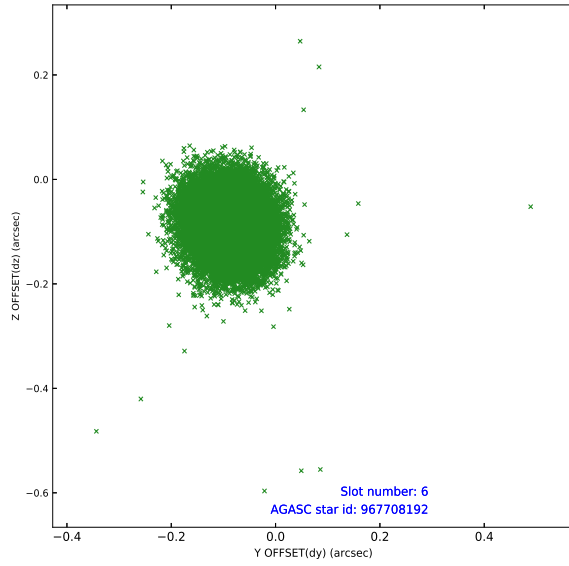
## 2.4.2 Slot 4



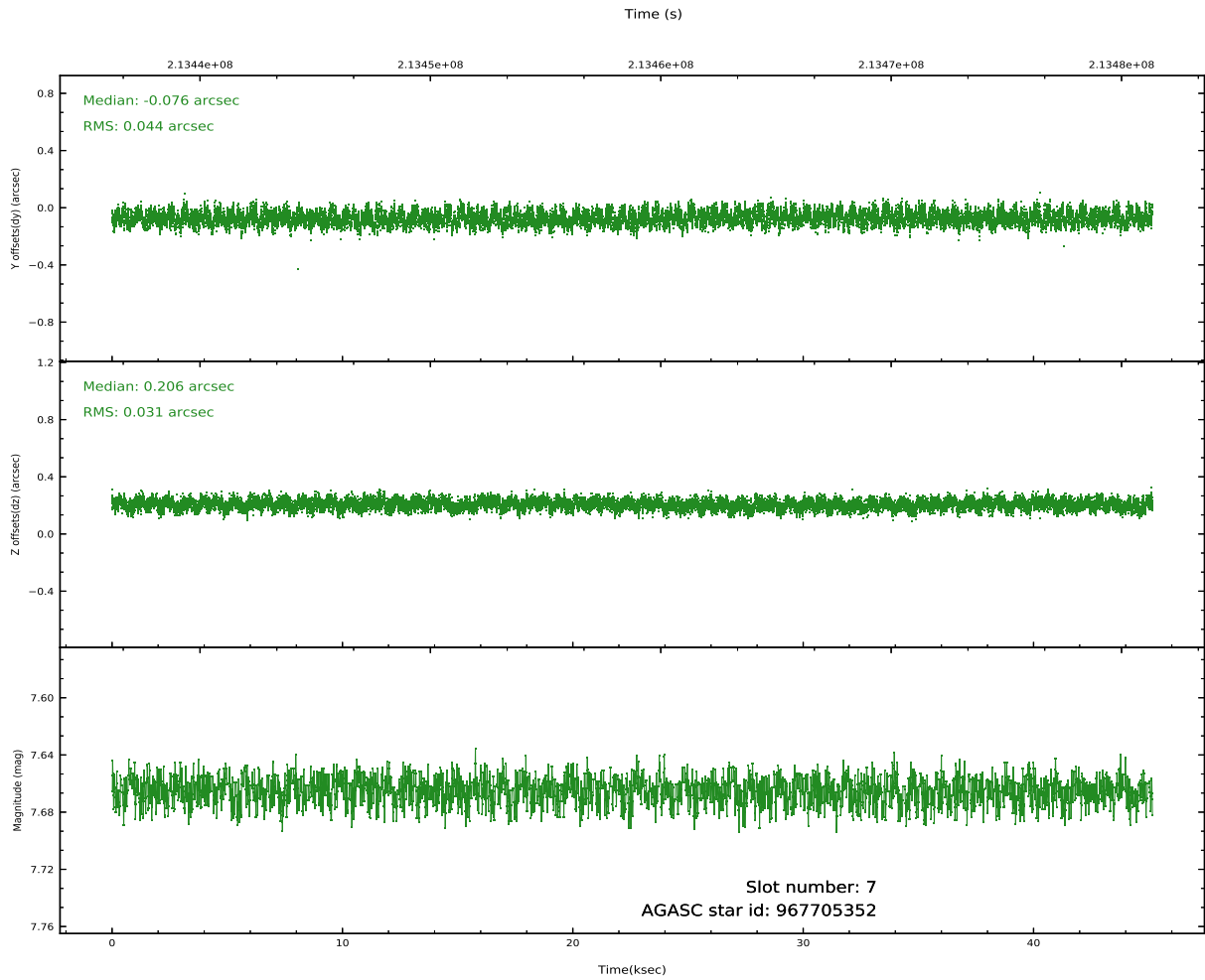
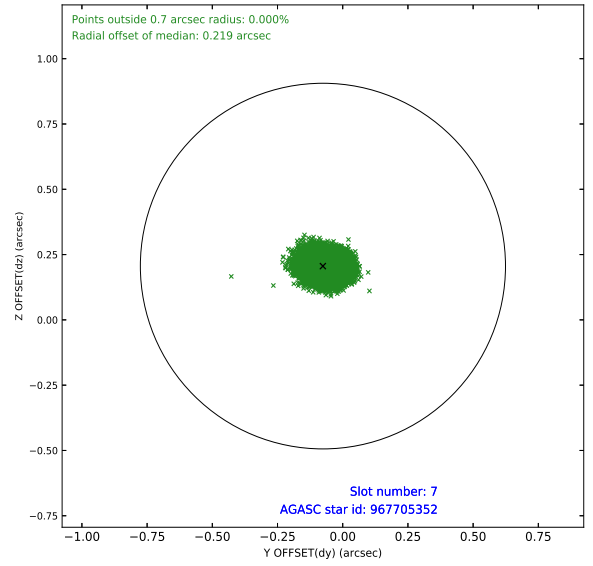
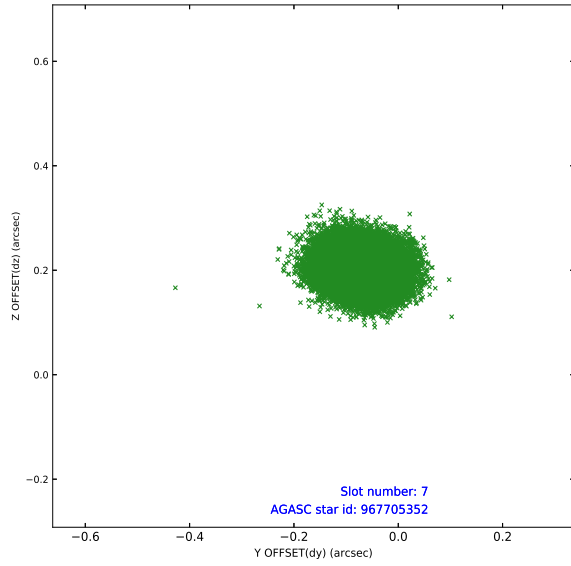
### 2.4.3 Slot 5



## 2.4.4 Slot 6

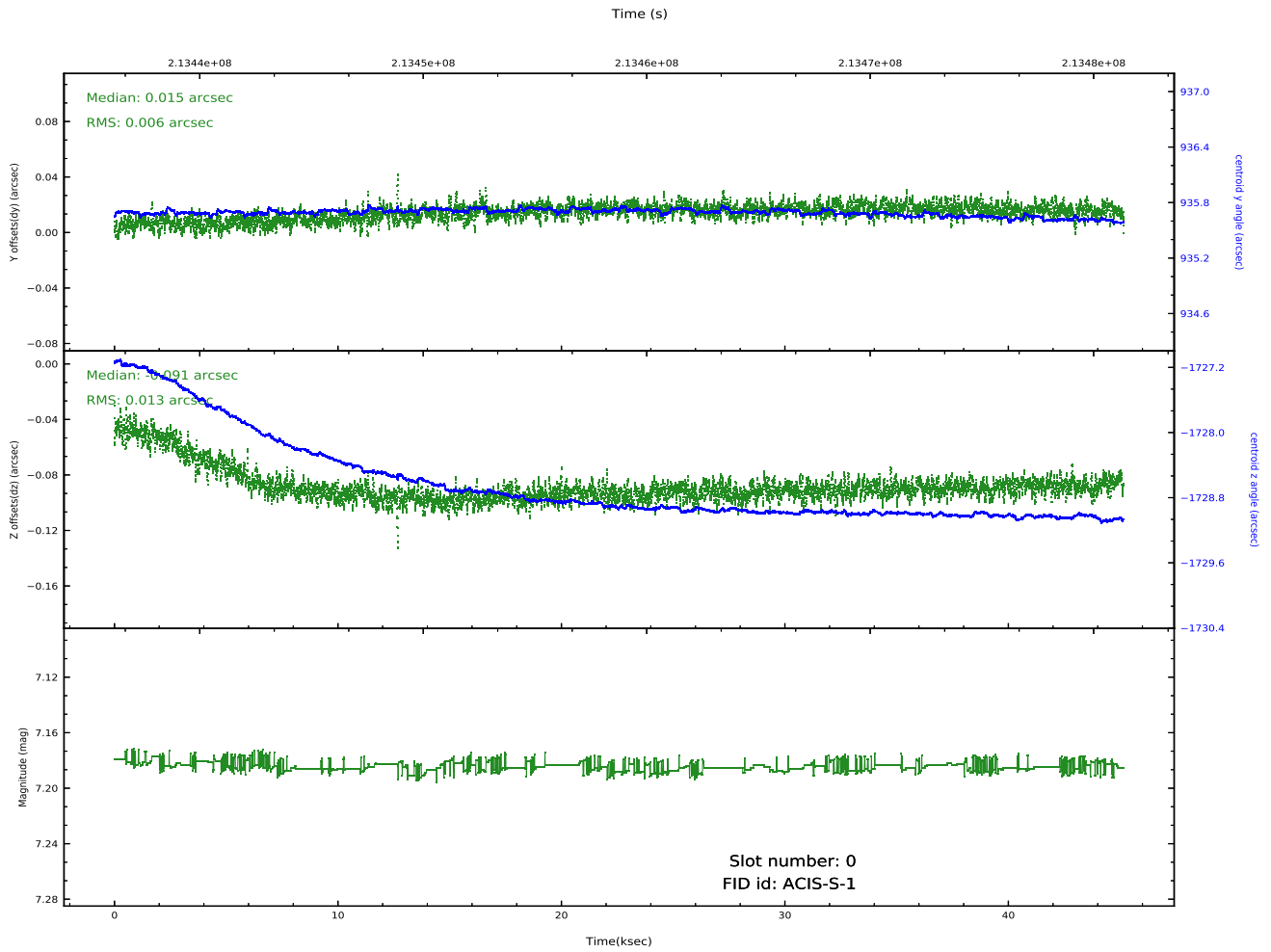
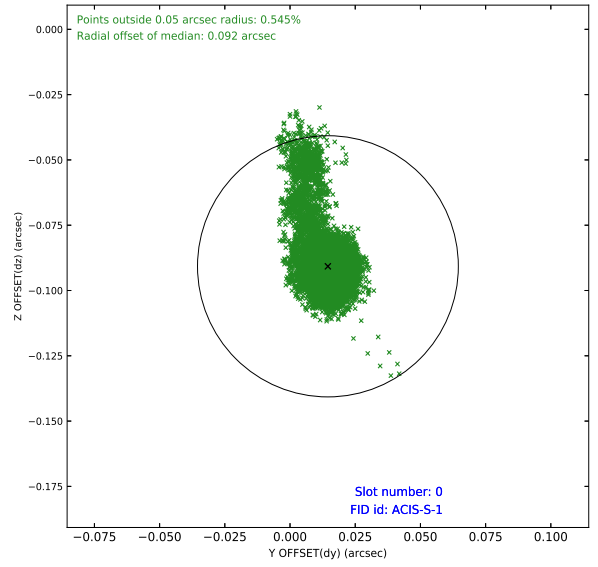
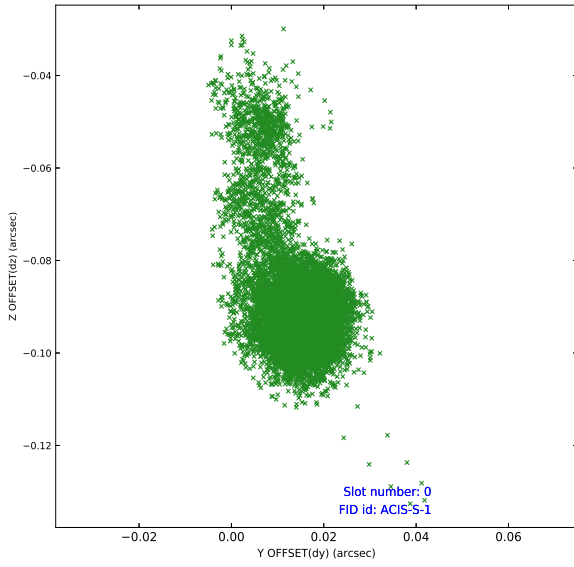


## 2.4.5 Slot 7

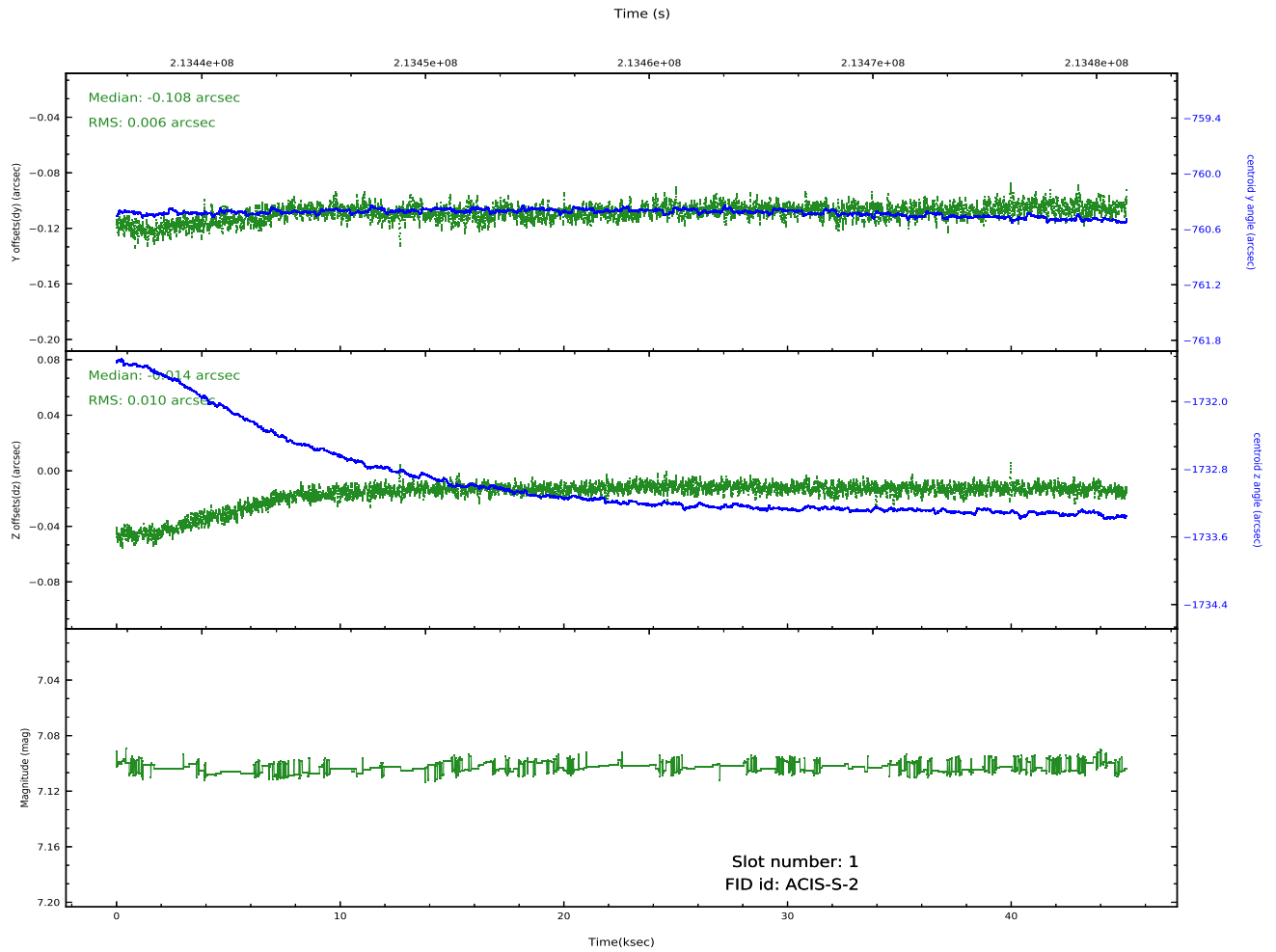
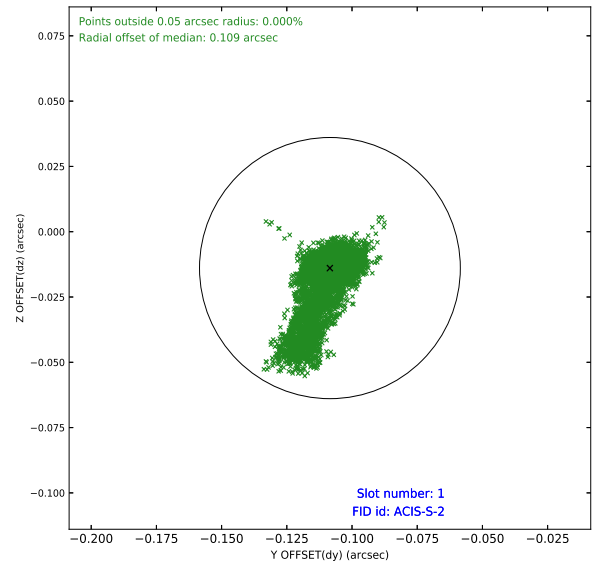
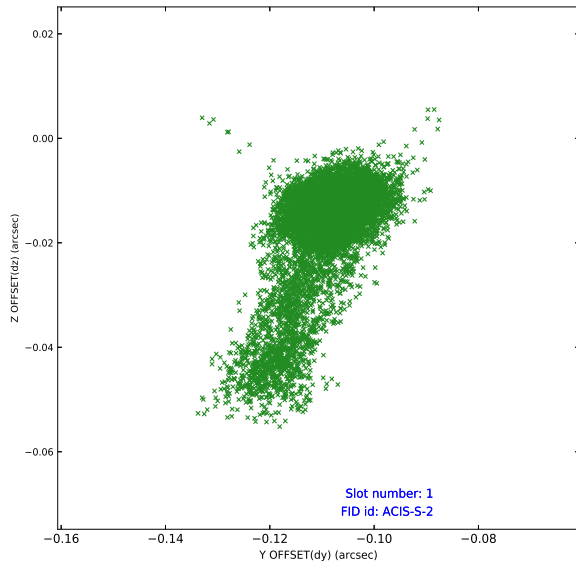


## 2.5 FID Slots

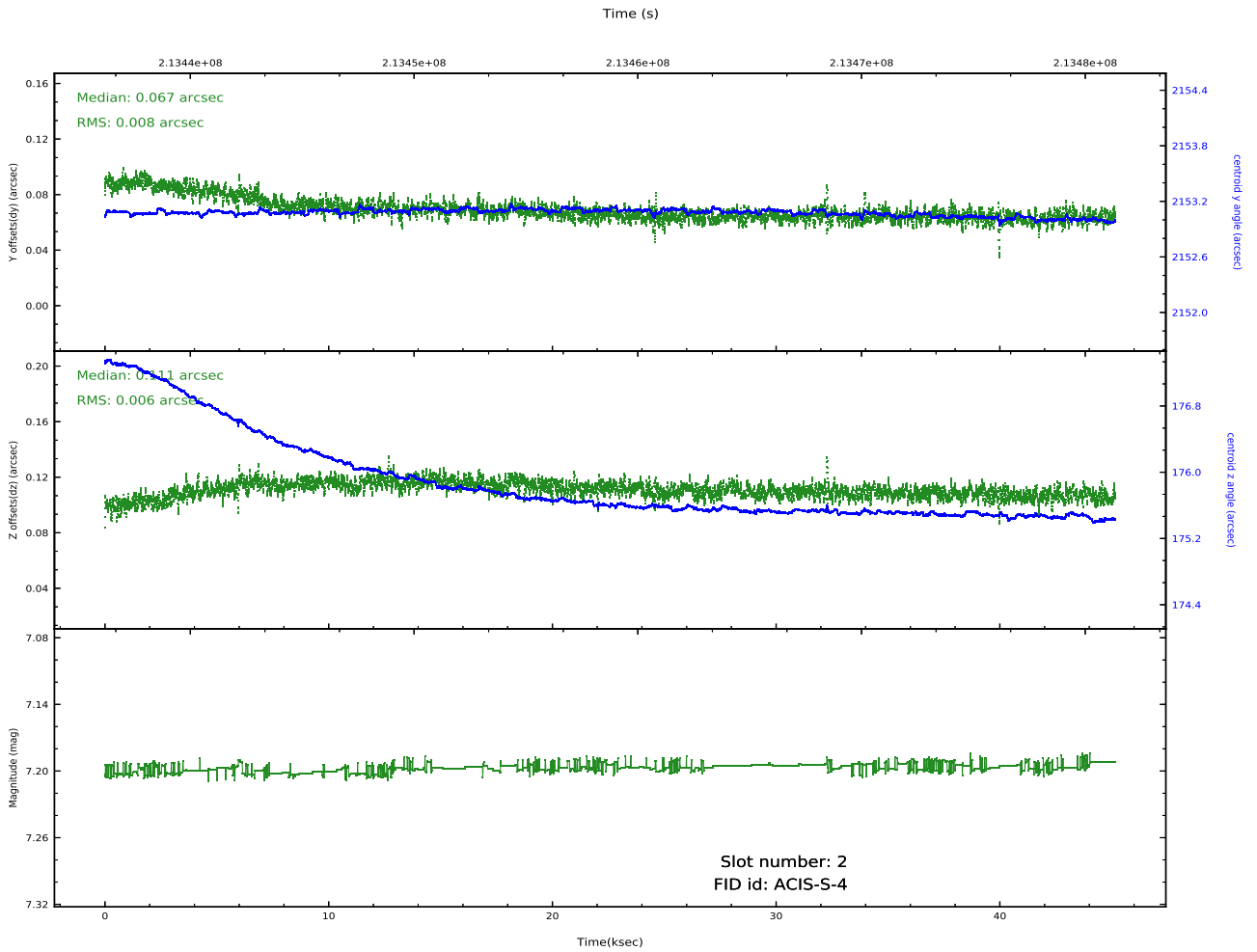
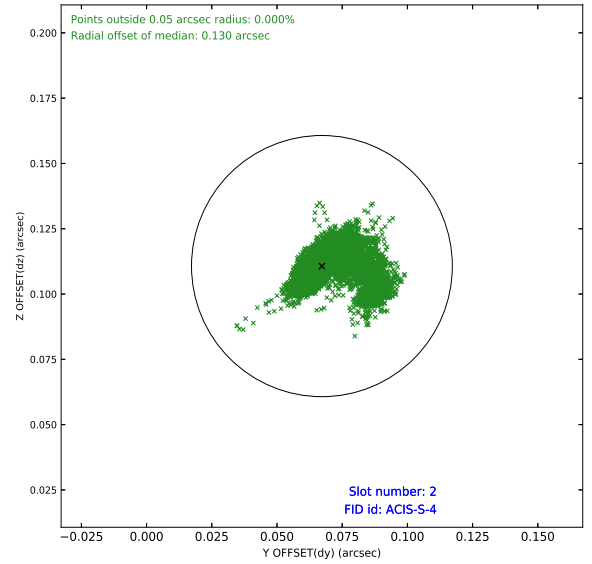
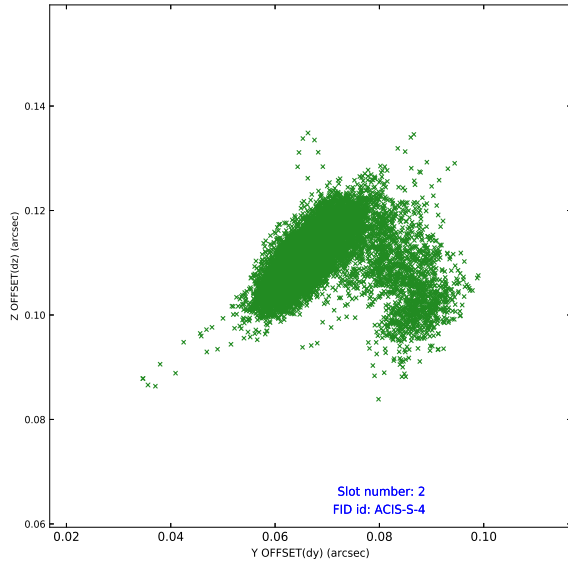
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.155

## A.2 Comments