

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7900 - L2 Version 3  
Chandra X-Ray Center

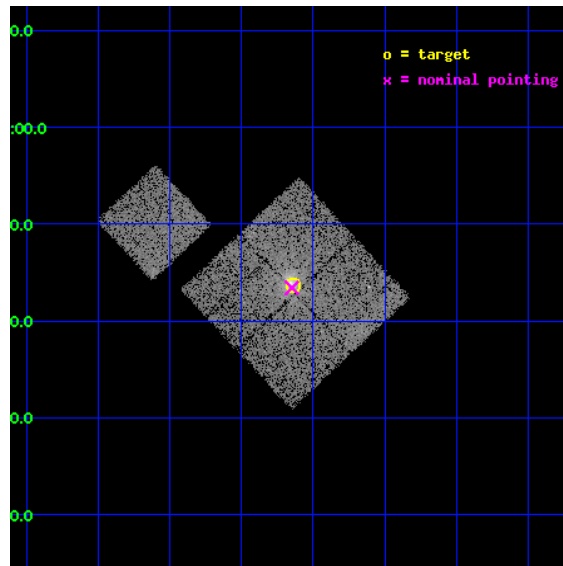
L2 Processing Date : Apr 16 2012

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# 1 Front

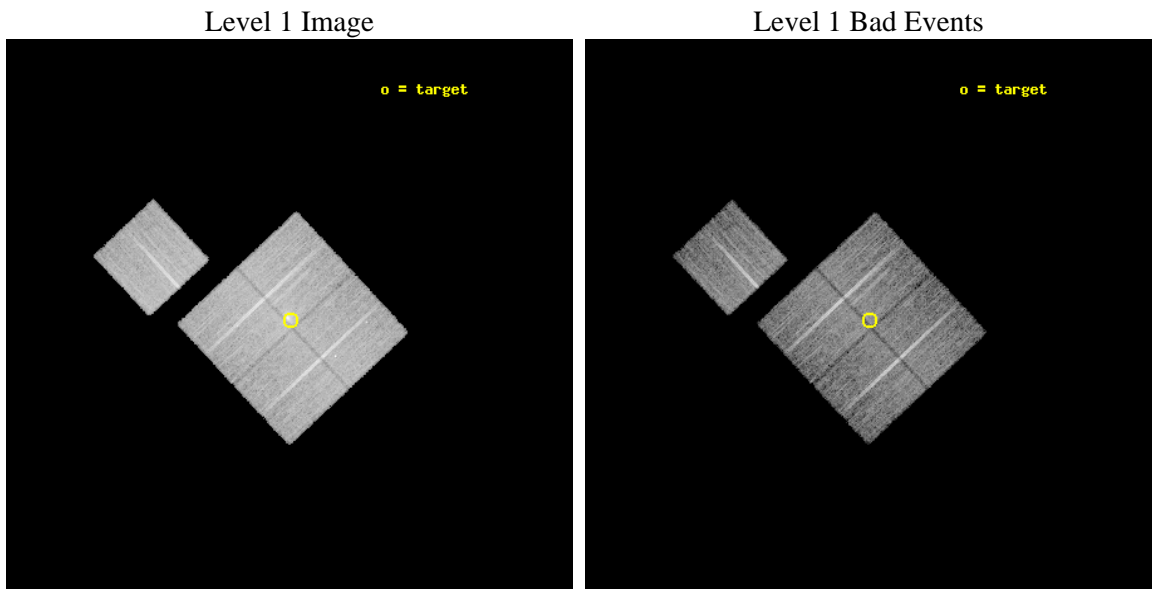
seq_num	800618	Sequence number
obs_id	7900	Observation id
title	An X-ray/lensing calibration of cluster mass estimates	Proposal ti
observer	Dr. Stephen Murray	Principal investigator
object	RXJ0437.1+0043	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.285	Observer's specified target RA [deg]
dec_targ	0.728	Observer's specified target Dec [deg]
ra_nom	69.287030512316	Nominal RA [deg]
dec_nom	0.72373130425966	Nominal Dec [deg]
roll_nom	316.93480019572	Nominal Roll [deg]
revision	3	Processing version of data
ontime	12176.800093651	Sum of GTIs [s]
livetime	12017.701235997	Livetime [s]
ontime0	12176.800093651	Sum of GTIs [s]
ontime1	12176.800093651	Sum of GTIs [s]
ontime2	12173.65909344	Sum of GTIs [s]
ontime3	12176.800093651	Sum of GTIs [s]
ontime6	12176.800093651	Sum of GTIs [s]
l2events	43330	Number of level 2 events



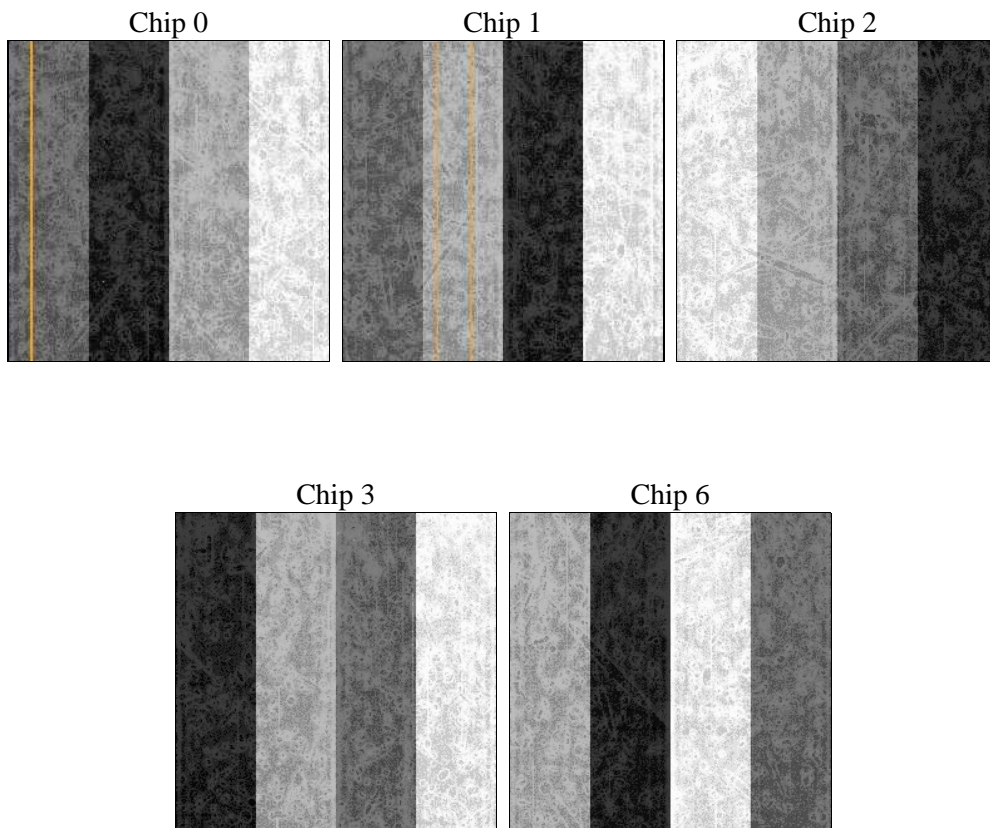
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	12176.800093651	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	12176.800093651	Sum of GTIs [s]
date	2012-04-16T04:08:01	Date and time of file creation	ontime1	12176.800093651	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	12173.65909344	Sum of GTIs [s]
			ontime3	12176.800093651	Sum of GTIs [s]
			ontime6	12176.800093651	Sum of GTIs [s]
			l1events	468334	Number of level 1 events

### 2.1.4 Events

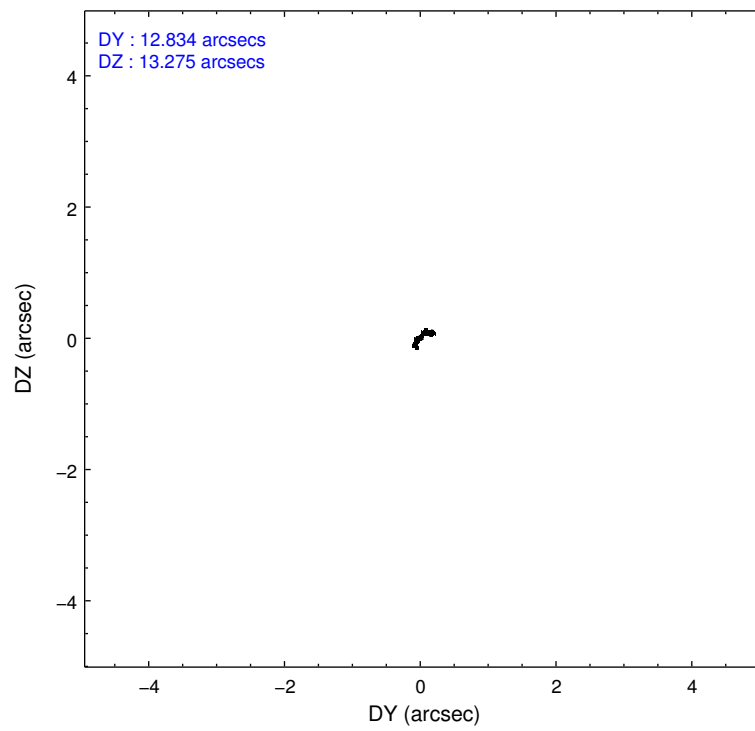
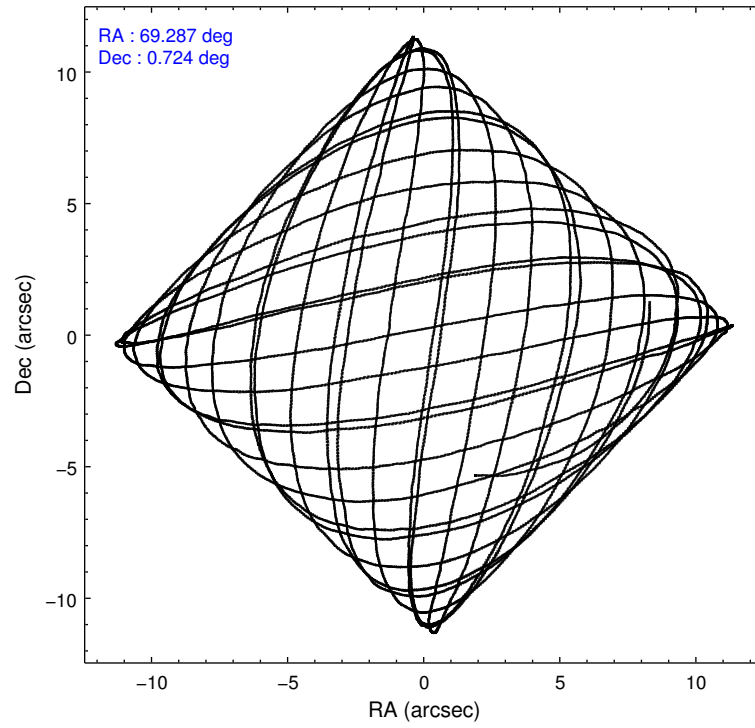
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	87335	89207	98044	98555	95193
rejected events	78188	78387	88189	86284	86038
rejected %	89%	87%	89%	87%	90%

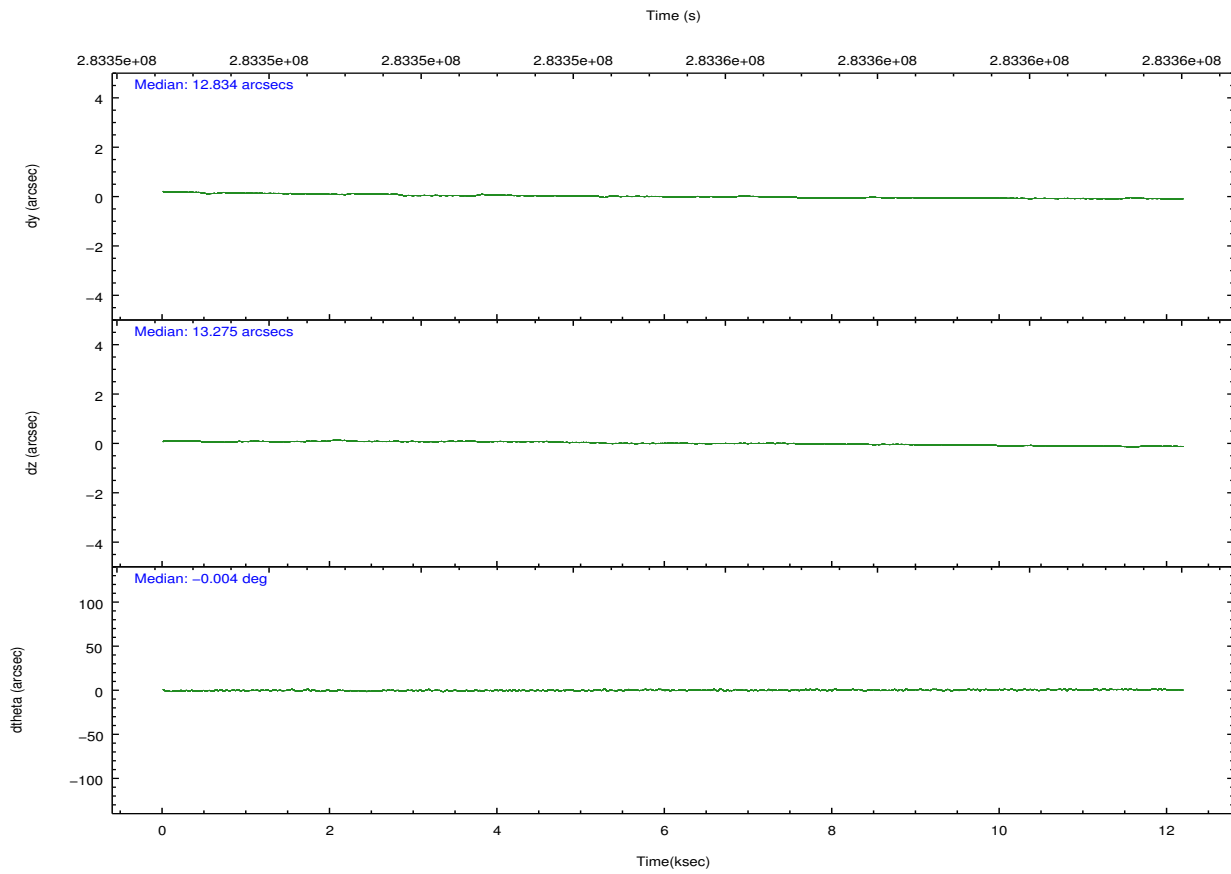
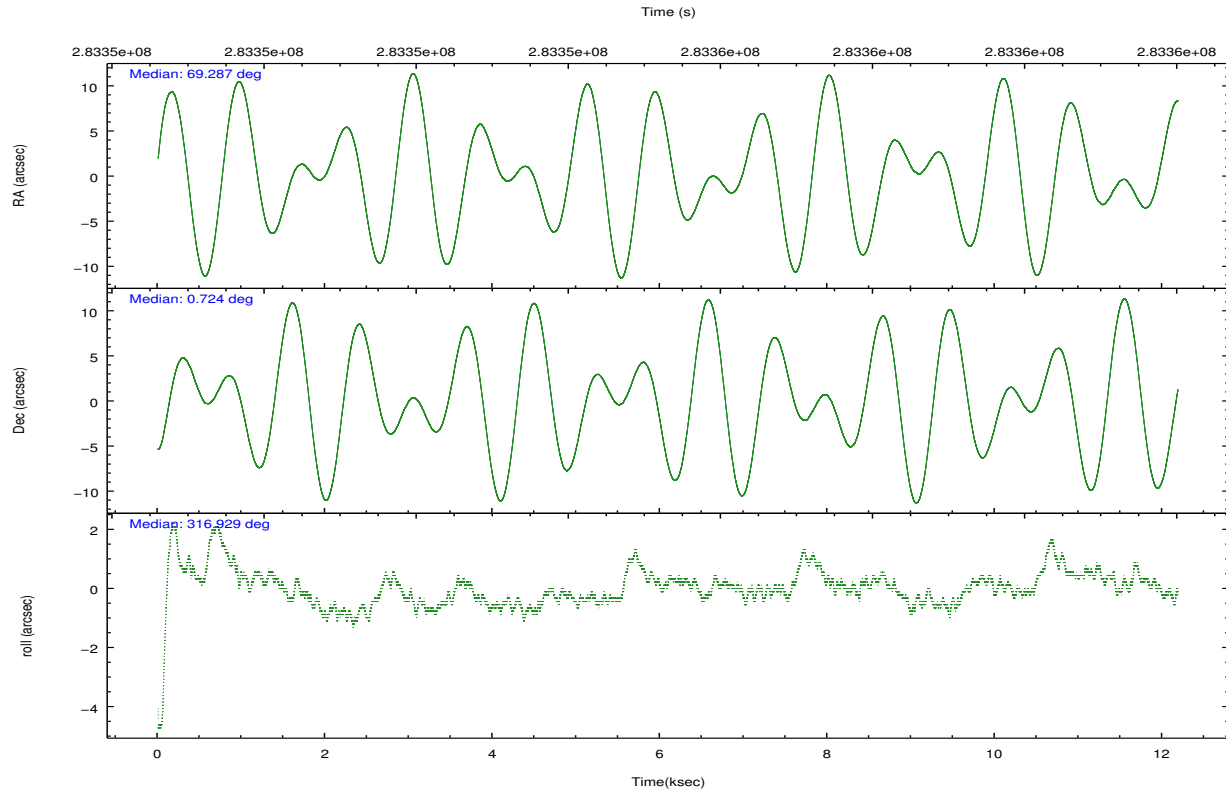
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3638	4620	4325	6239	3326
	4%	5%	4%	6%	3%
grade 1 events	50	50	71	88	46
	0%	0%	0%	0%	0%
grade 2 events	2279	2435	2340	2428	2223
	2%	2%	2%	2%	2%
grade 3 events	1034	1178	1070	1199	1078
	1%	1%	1%	1%	1%
grade 4 events	1061	1153	1052	1149	1109
	1%	1%	1%	1%	1%
grade 5 events	3380	3650	3252	3921	3845
	3%	4%	3%	3%	4%
grade 6 events	1816	2209	1790	1957	2112
	2%	2%	1%	1%	2%
grade 7 events	74077	73912	84144	81574	81454
	84%	82%	85%	82%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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	69.260185	69.28703051231599	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.729846	0.7237313042596574	Alternating exposures requested	N	N
[deg] Pointing Roll	316.726456	316.9348001957151	[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)	283349412.184000	283347954.37437			
Observation start date	2006-12-24T12:09:07	2006-12-24T11:45:54			
[s] Observation end time (MET)	283361412.184000	283362477.60006			
Observation end date	2006-12-24T15:29:07	2006-12-24T15:47:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect





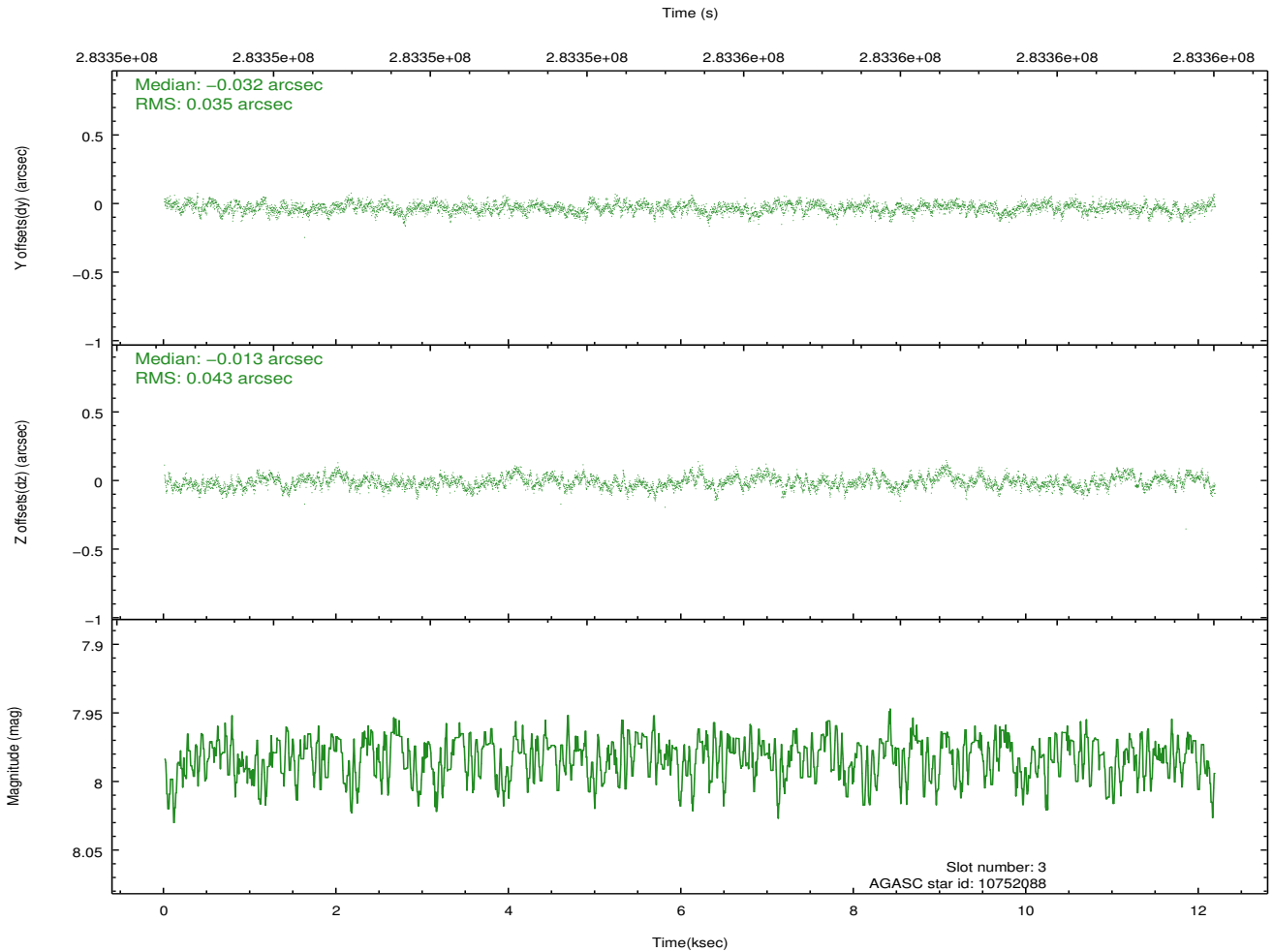
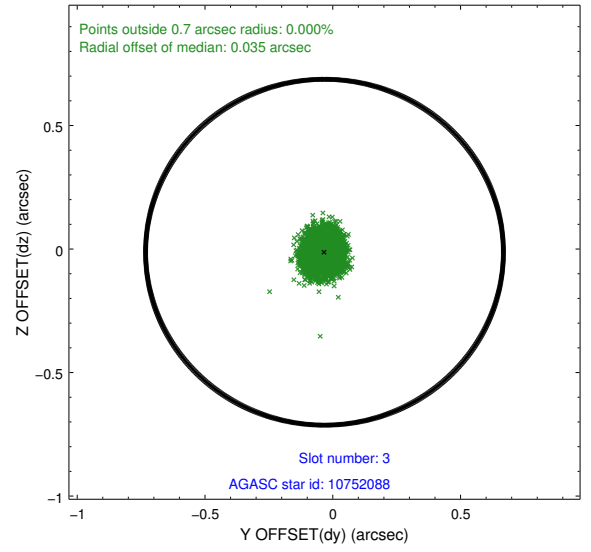
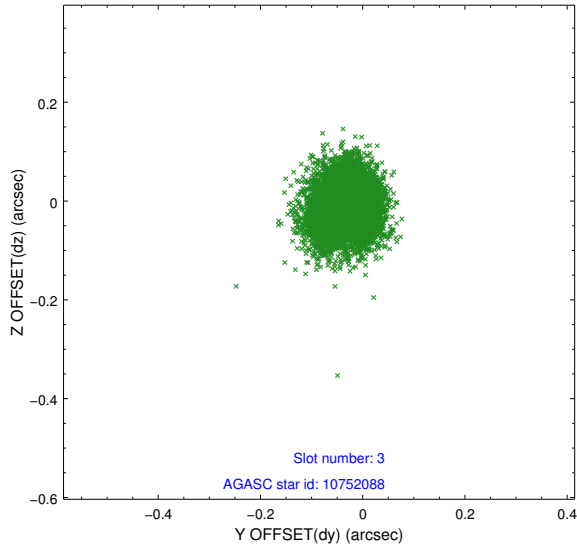
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	2972	0.073	-0.007	0.006	0.011	0.000000	0.000000	926.78	-836.81
1	FID	ACIS-I-2	7.14	2971	-0.038	-0.068	0.009	0.017	0.000000	0.000000	-767.20	-843.57
2	FID	ACIS-I-5	7.22	2970	-0.128	0.148	0.007	0.013	0.000000	0.000000	-1821.94	1060.54
3	GUIDE	10752088	7.98	5944	-0.032	-0.013	0.059	0.097	68.974303	0.386712	97.76	-1605.21
4	GUIDE	10753384	9.22	5939	0.047	0.068	0.080	0.130	69.348690	1.244445	-1037.79	1567.05
5	GUIDE	10887752	8.83	5942	0.076	0.015	0.063	0.102	69.745378	0.520046	1789.51	648.14
6	GUIDE	10882944	9.15	5937	-0.094	-0.046	0.097	0.153	69.405047	1.498873	-1517.97	2372.86
7	GUIDE	10887808	8.53	5939	0.004	-0.029	0.056	0.091	69.787881	0.318216	2398.71	223.89

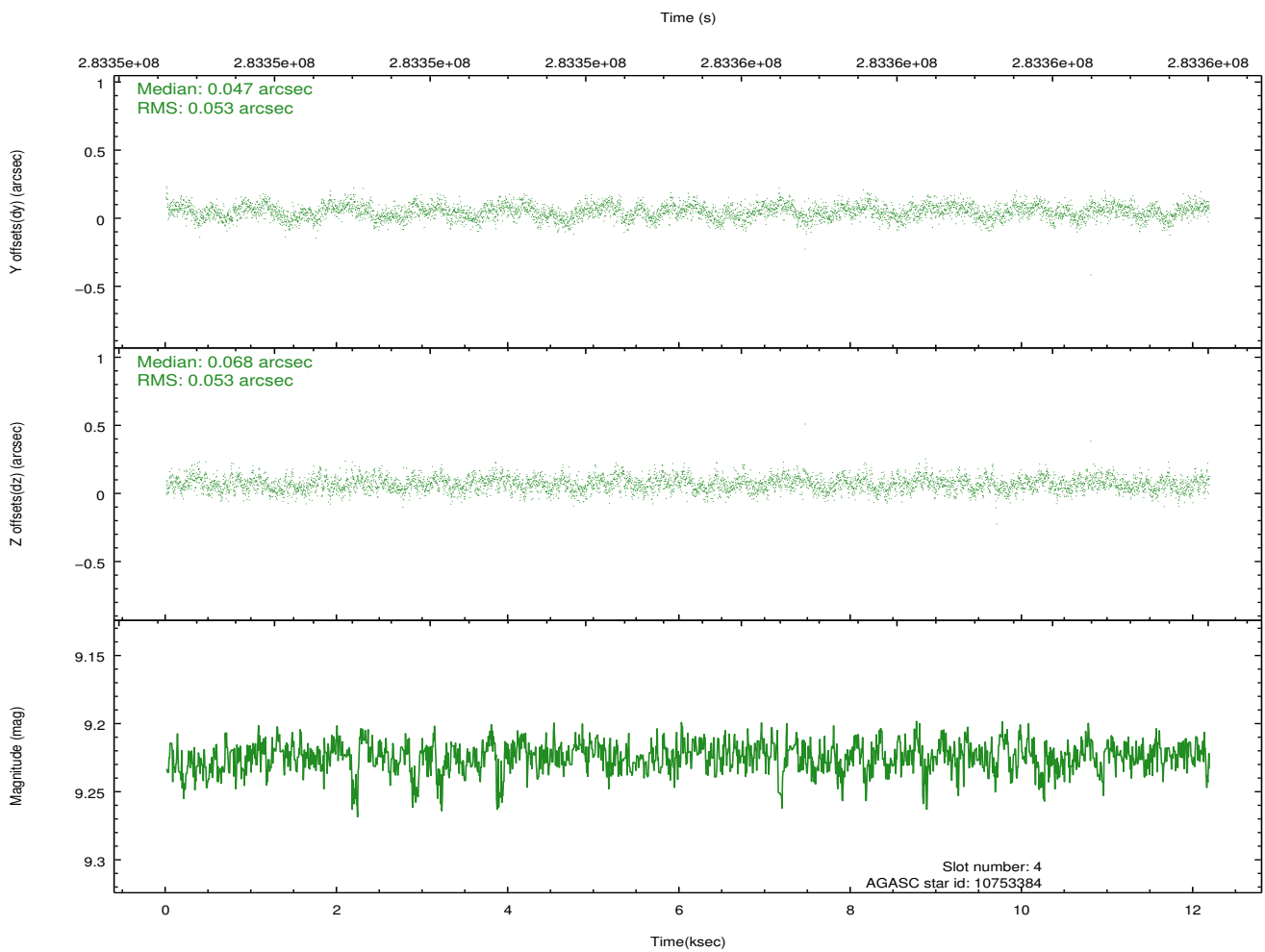
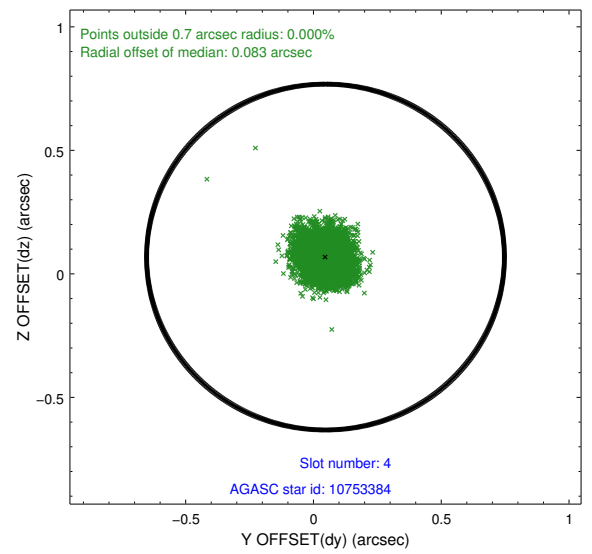
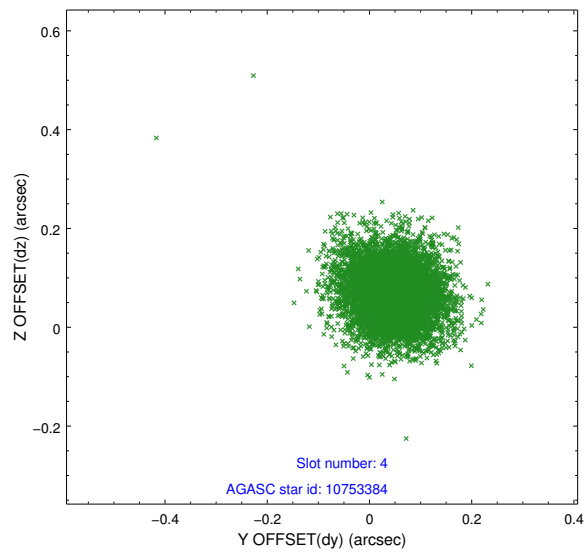
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## 2.4 Star Slots

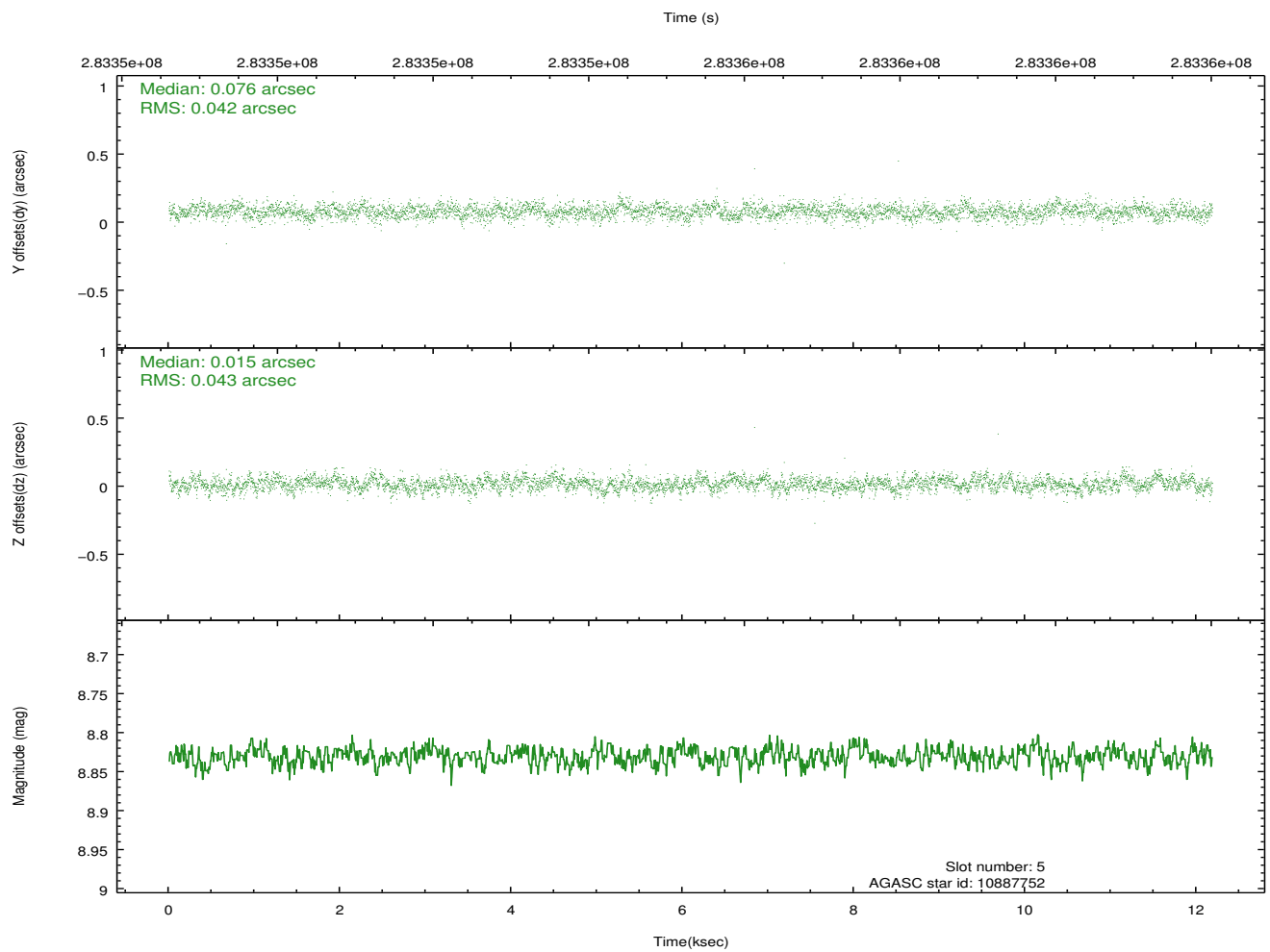
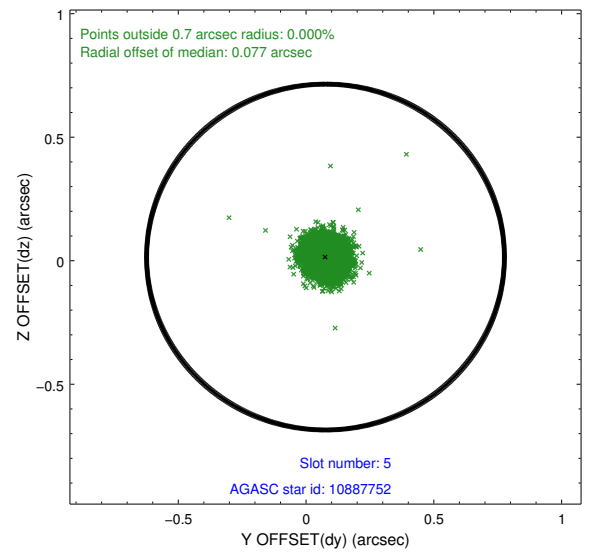
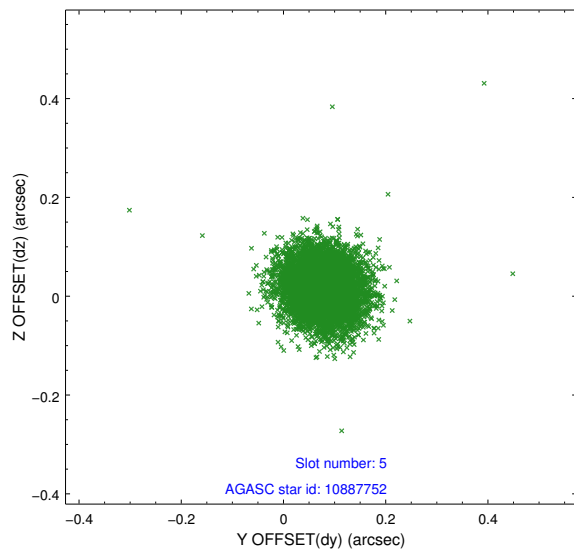
### 2.4.1 Slot 3



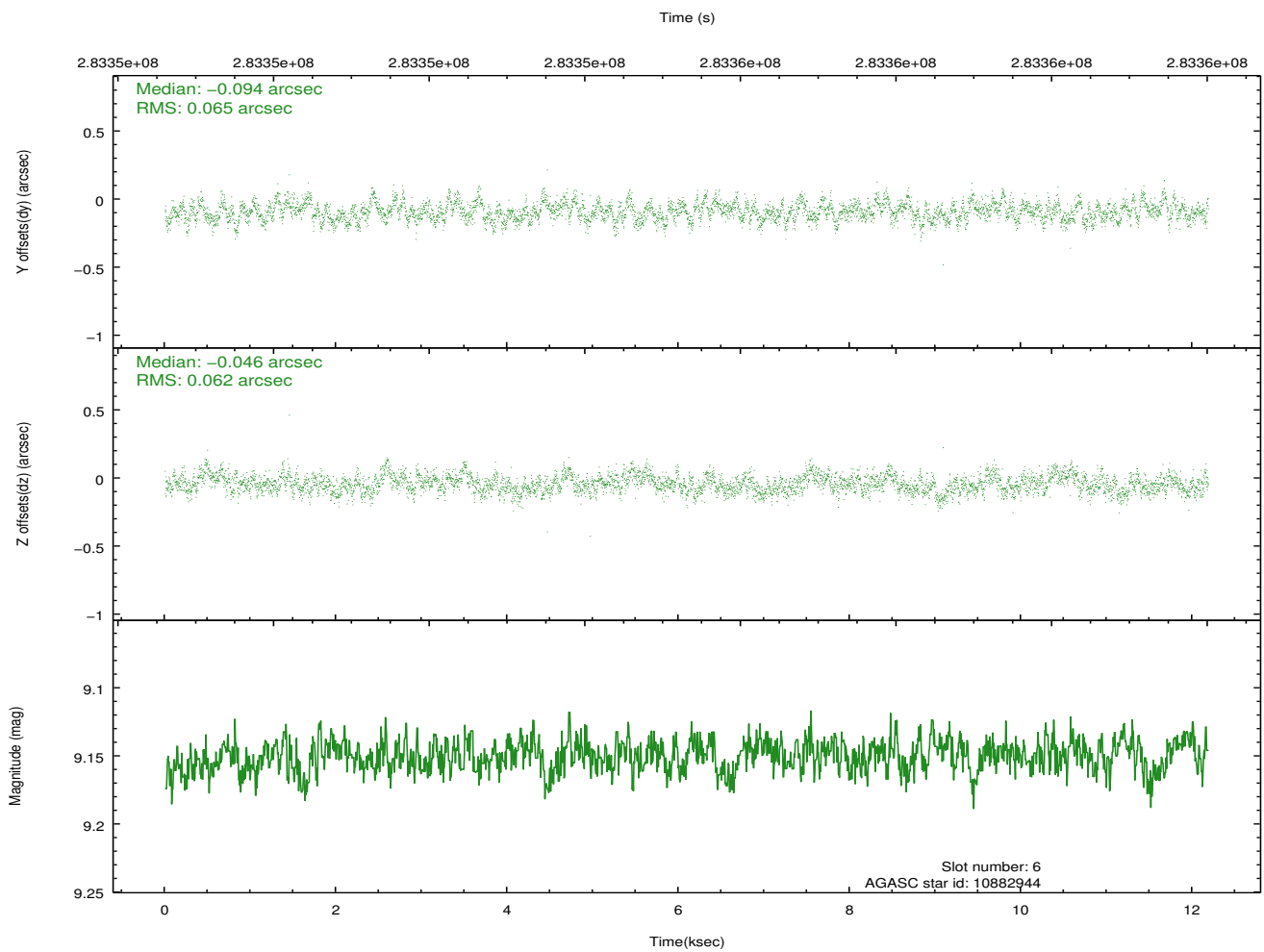
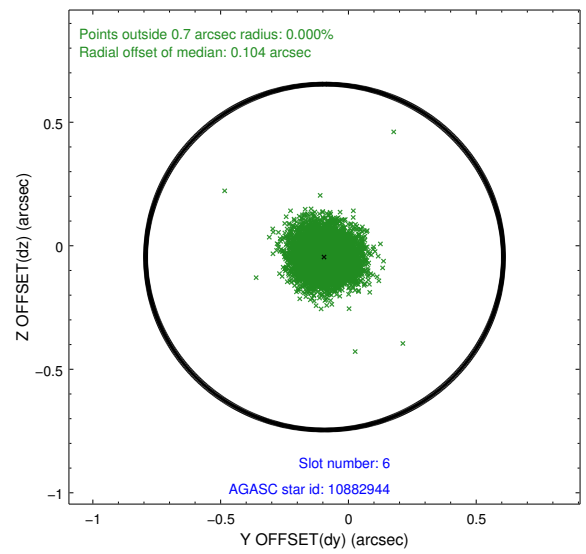
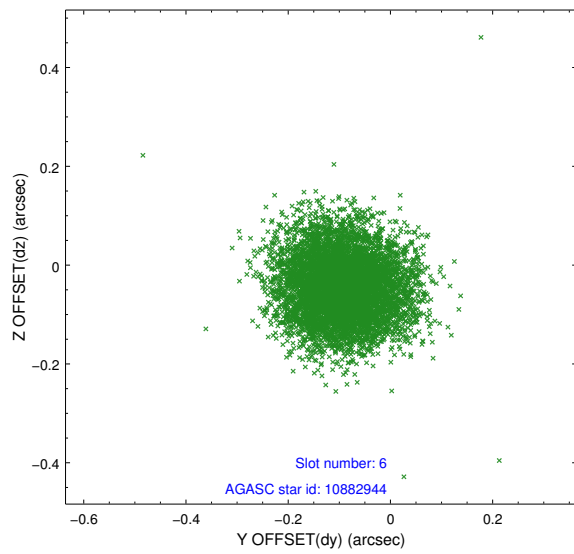
## 2.4.2 Slot 4



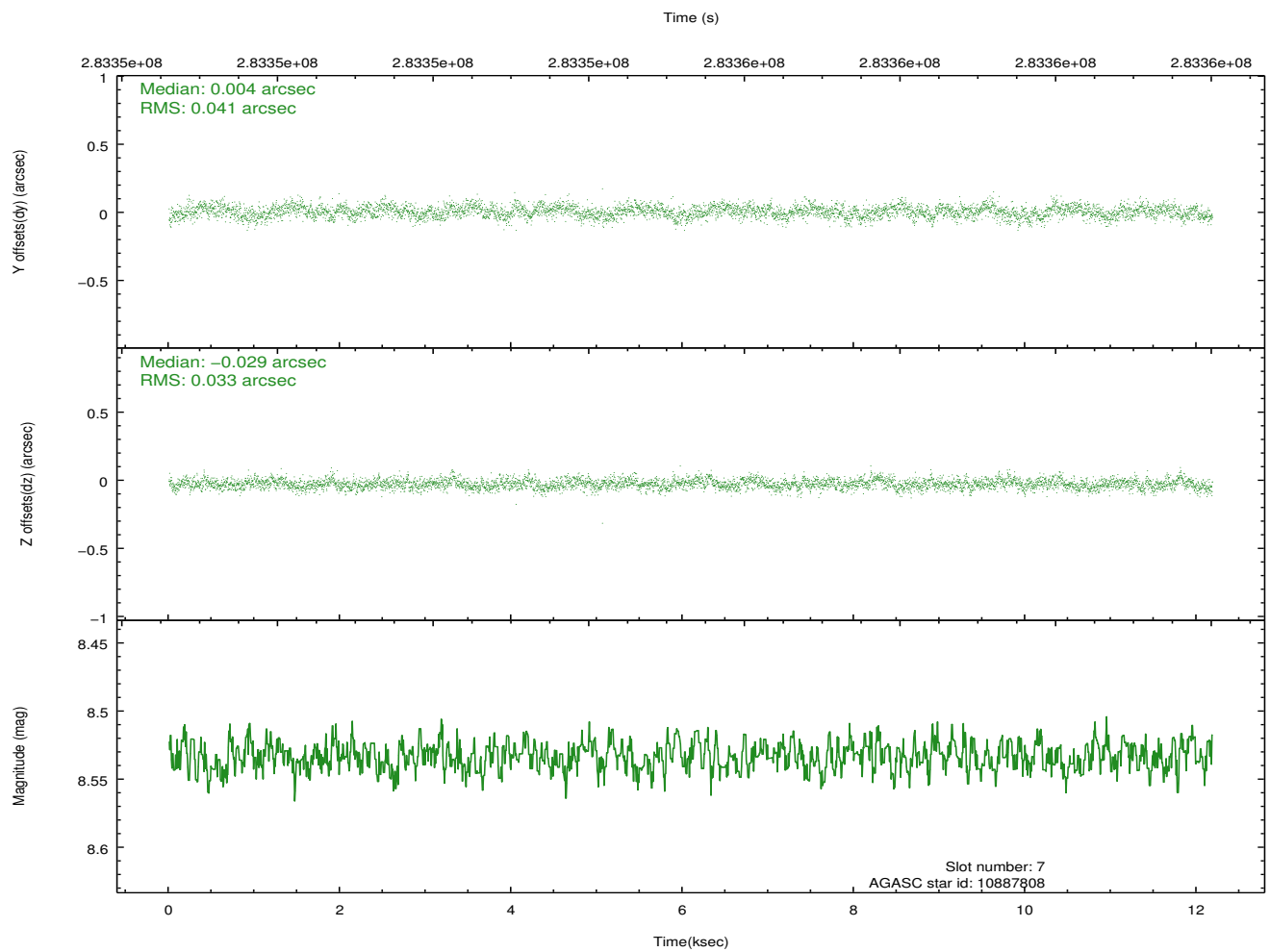
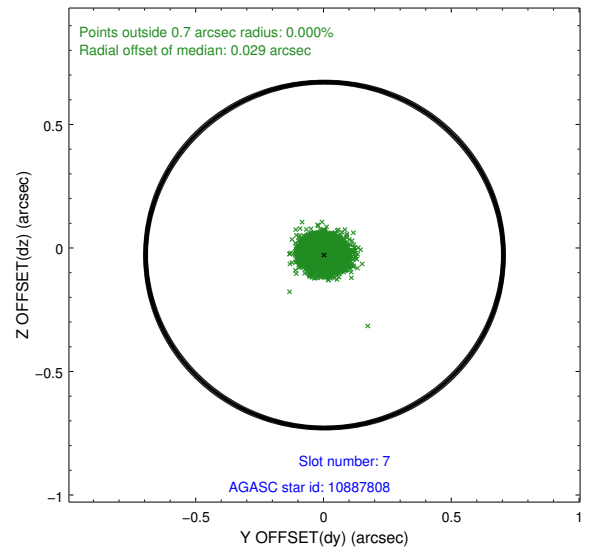
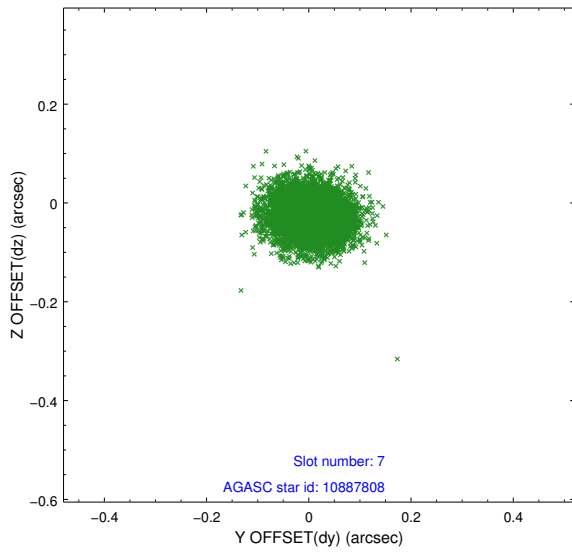
### 2.4.3 Slot 5



## 2.4.4 Slot 6

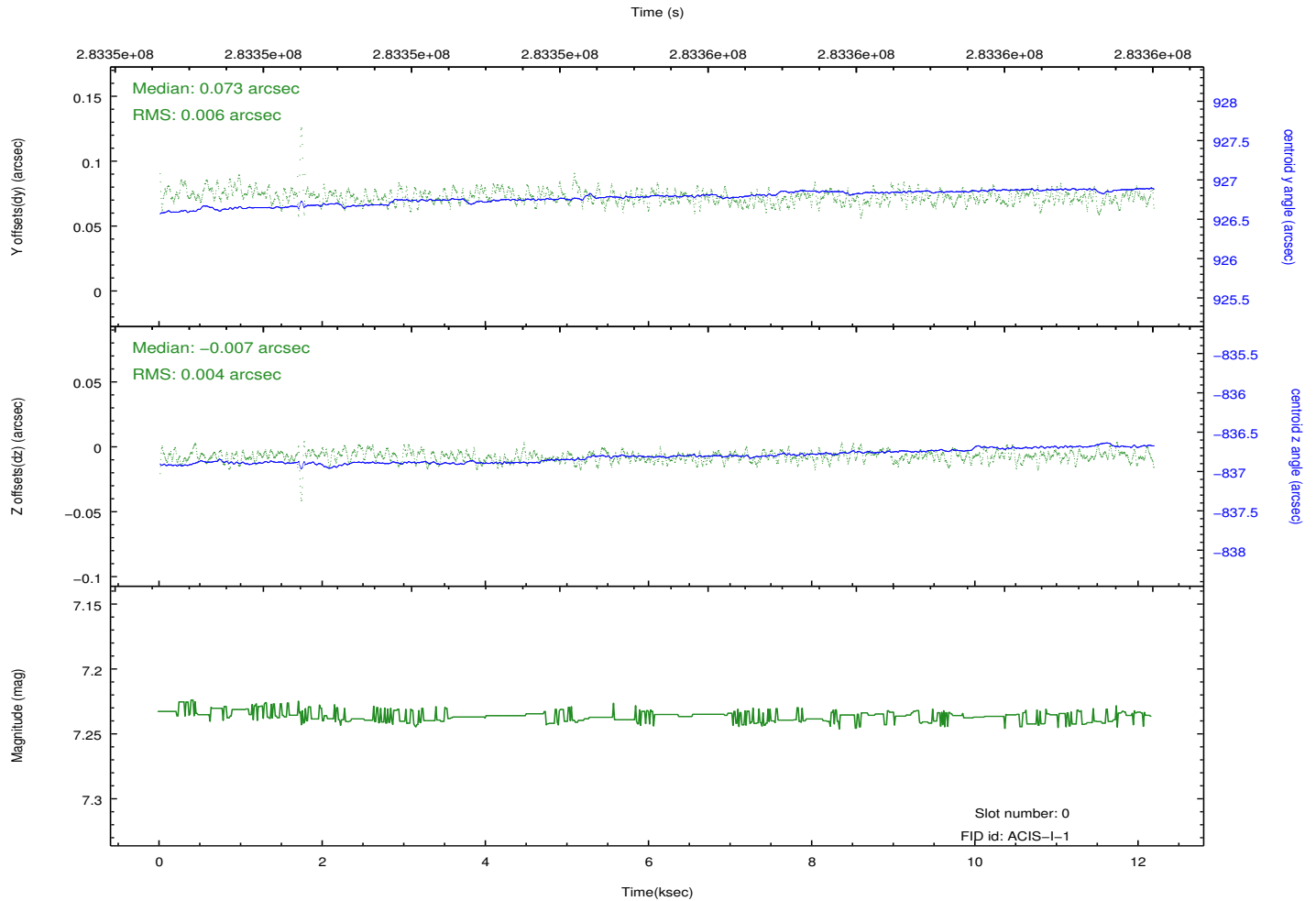
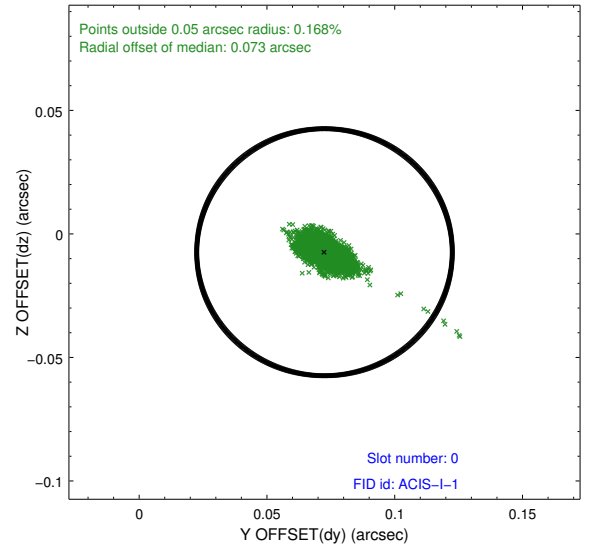
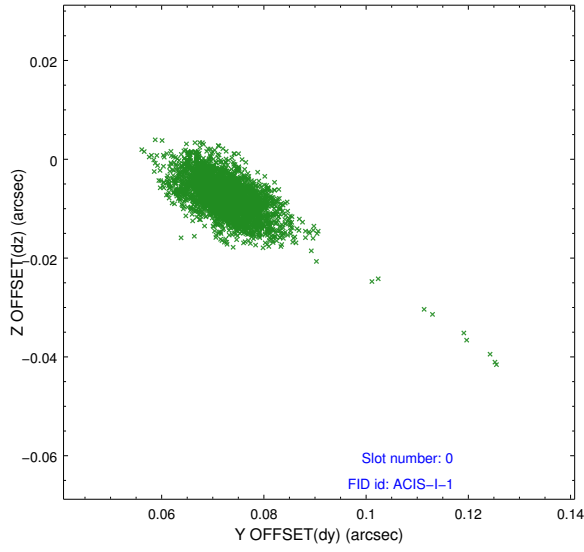


## 2.4.5 Slot 7

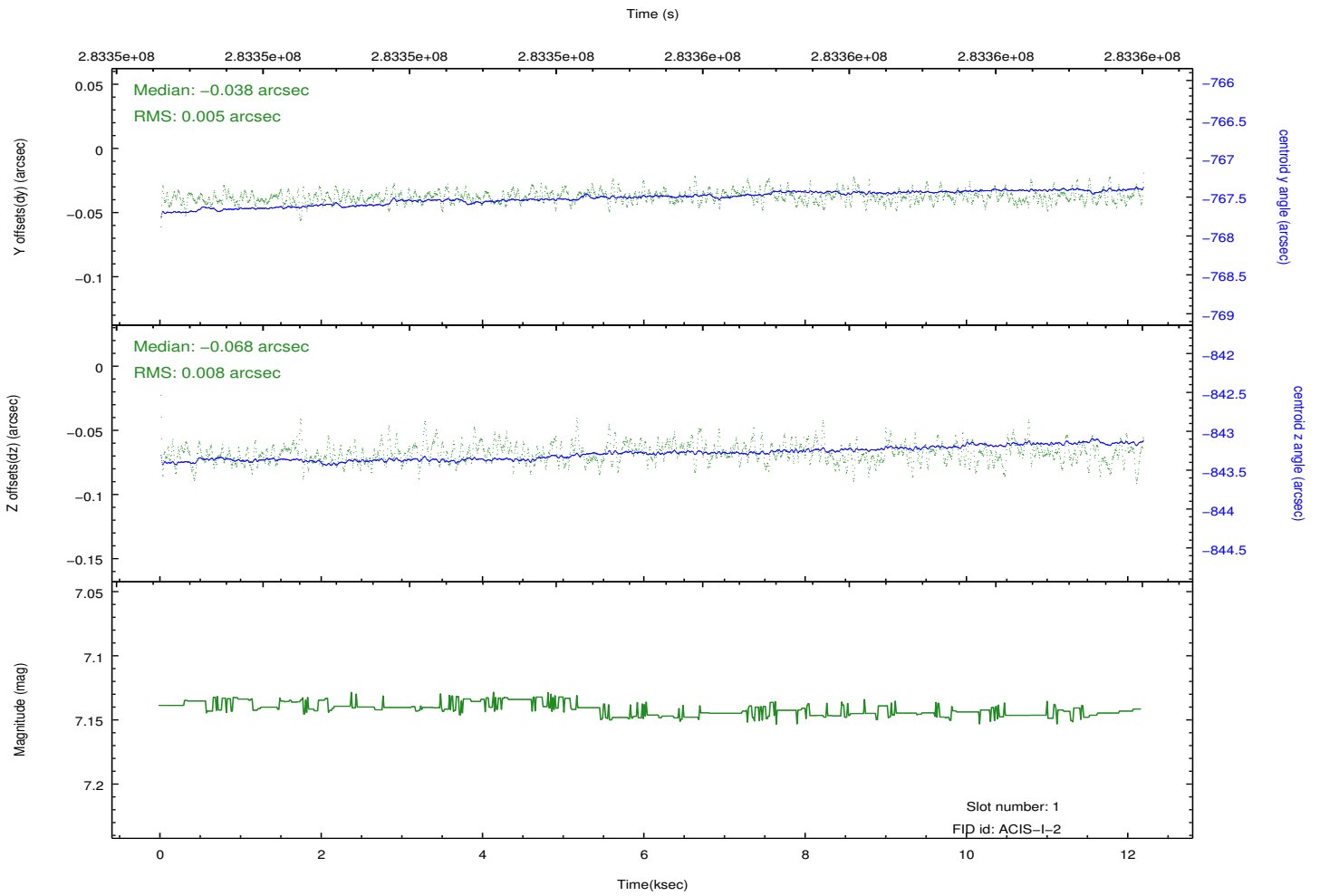
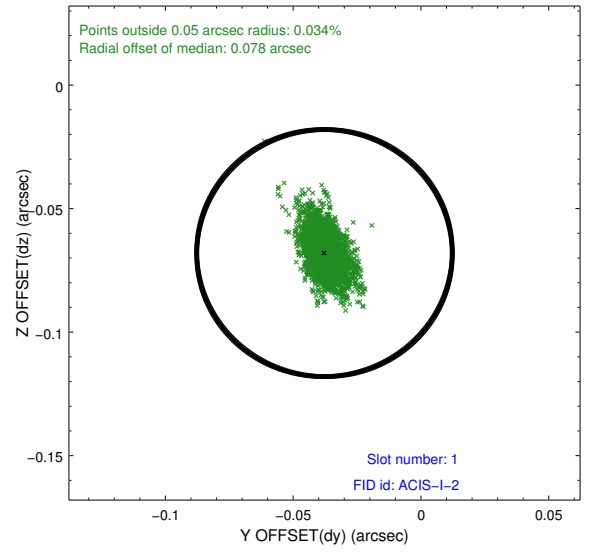
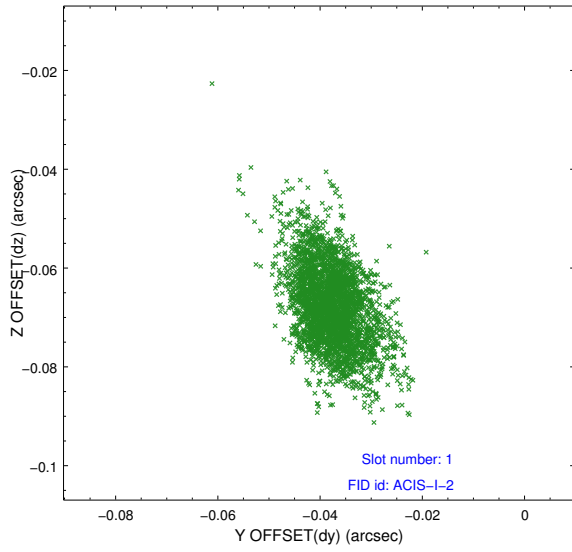


## 2.5 FID Slots

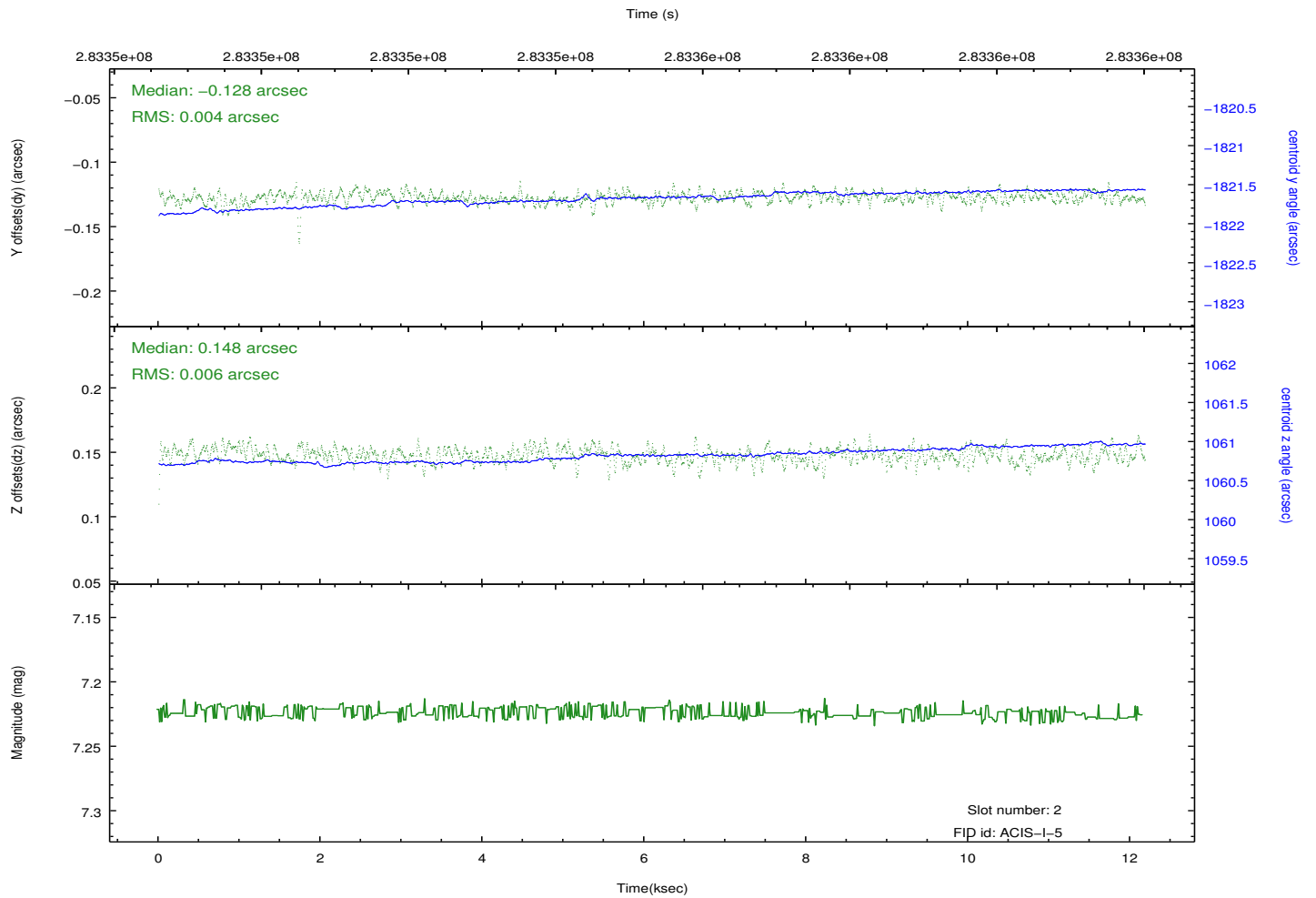
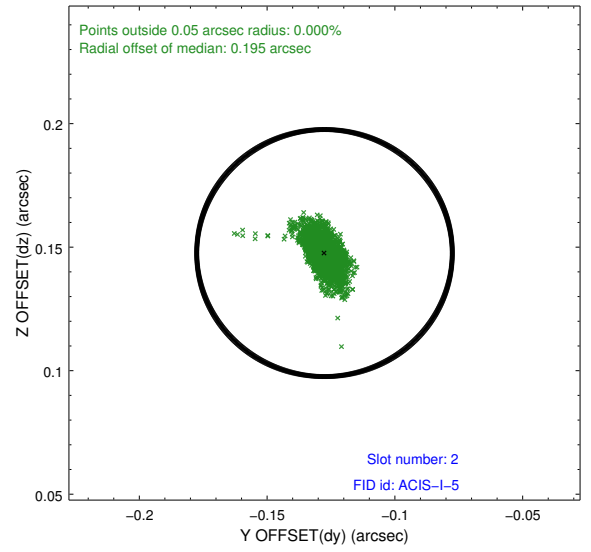
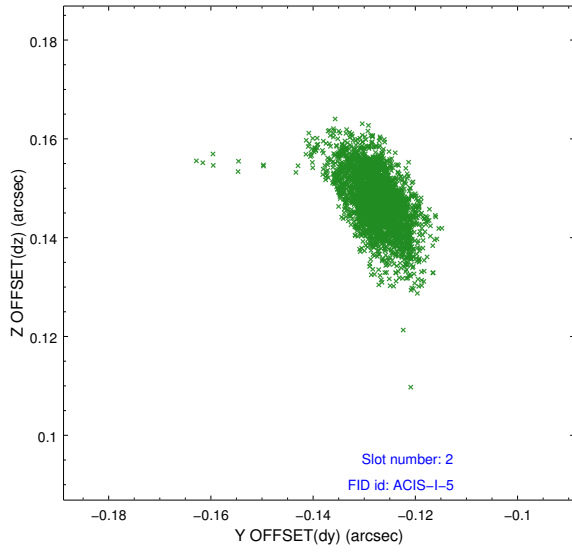
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.1768

## A.2 Comments