

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 15337 - L2 Version 2  
Chandra X-Ray Center

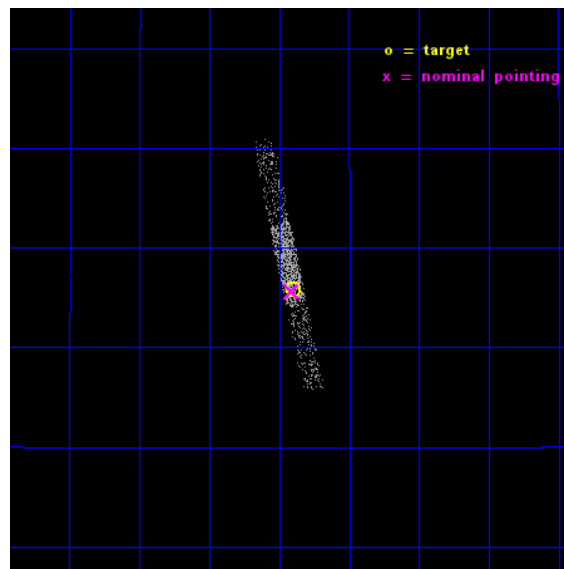
L2 Processing Date : Dec 2 2014

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# 1 Front

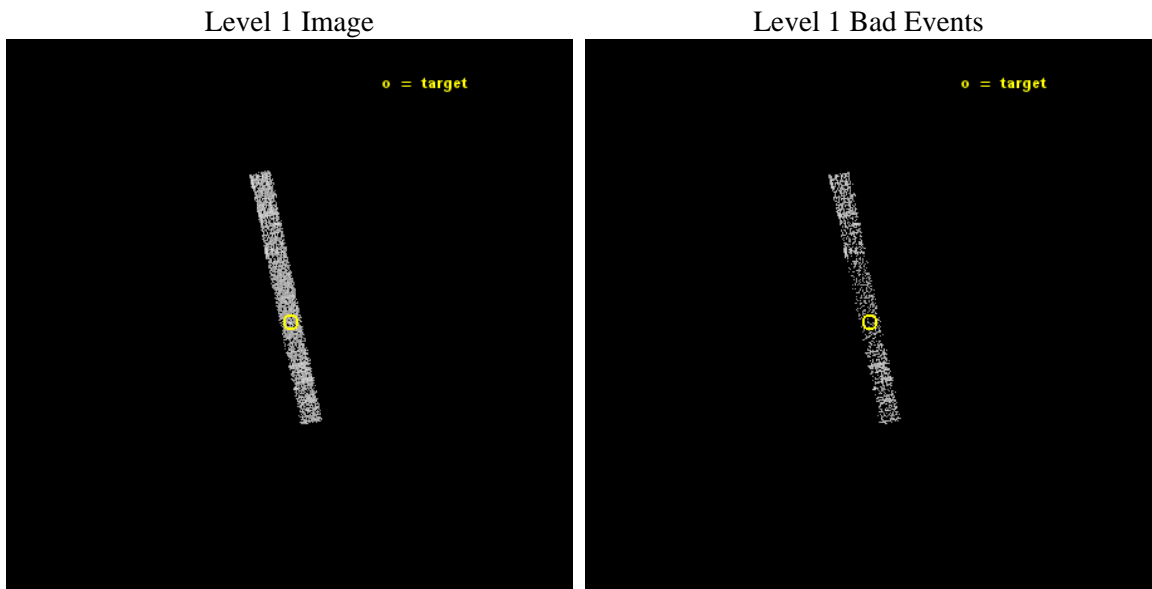
seq_num	702897	Sequence number
obs_id	15337	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0844+1245	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.100833	Observer's specified target RA [deg]
dec_targ	12.762917	Observer's specified target Dec [deg]
ra_nom	131.10319808105	Nominal RA [deg]
dec_nom	12.760629252732	Nominal Dec [deg]
roll_nom	257.76551864611	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1594.7999577522	Sum of GTIs [s]
liveltime	1525.2486206506	Livetime [s]
ontime6	1594.7999577522	Sum of GTIs [s]
ontime7	1594.7999577522	Sum of GTIs [s]
ontime8	1594.7999577522	Sum of GTIs [s]
l2events	1728	Number of level 2 events



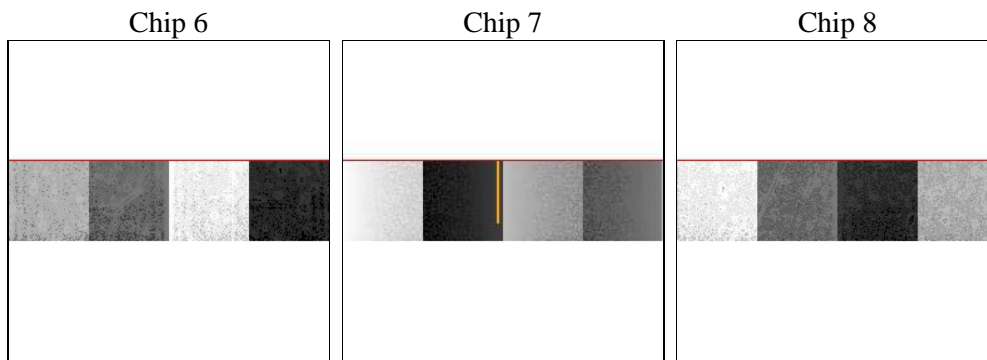
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.757000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1594.7999577522	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime6	1594.7999577522	Sum of GTIs [s]
date	2014-12-02T13:36:55	Date and time of file creation	ontime7	1594.7999577522	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1594.7999577522	Sum of GTIs [s]
			l1events	8550	Number of level 1 events

### 2.1.4 Events

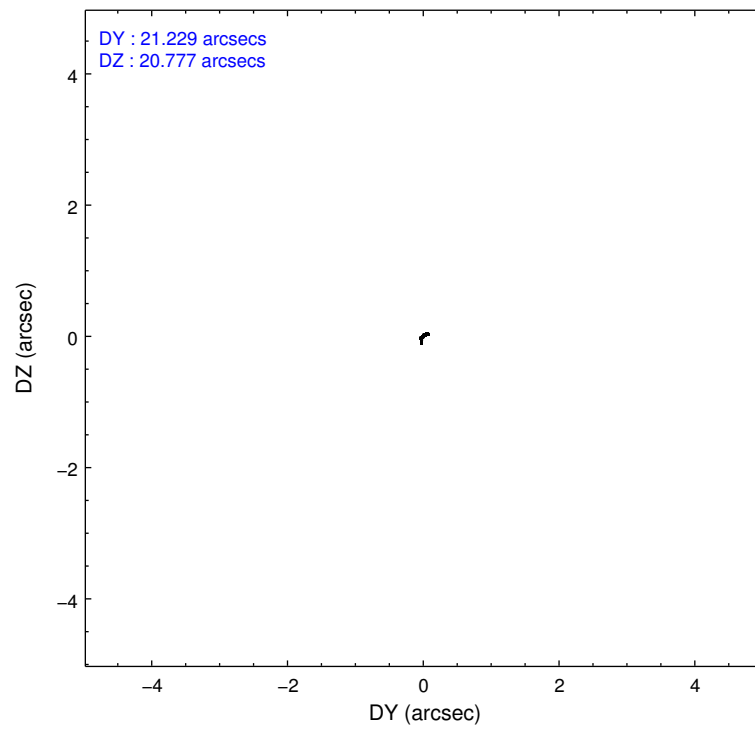
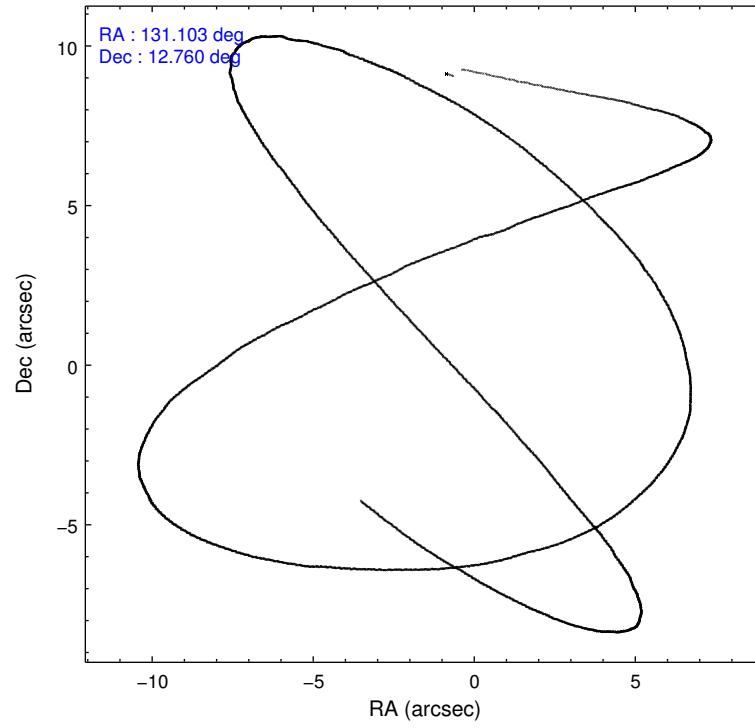
	ccd 6	ccd 7	ccd 8
level 1 events	2633	2544	3373
rejected events	2335	1216	2714
rejected %	88%	47%	80%

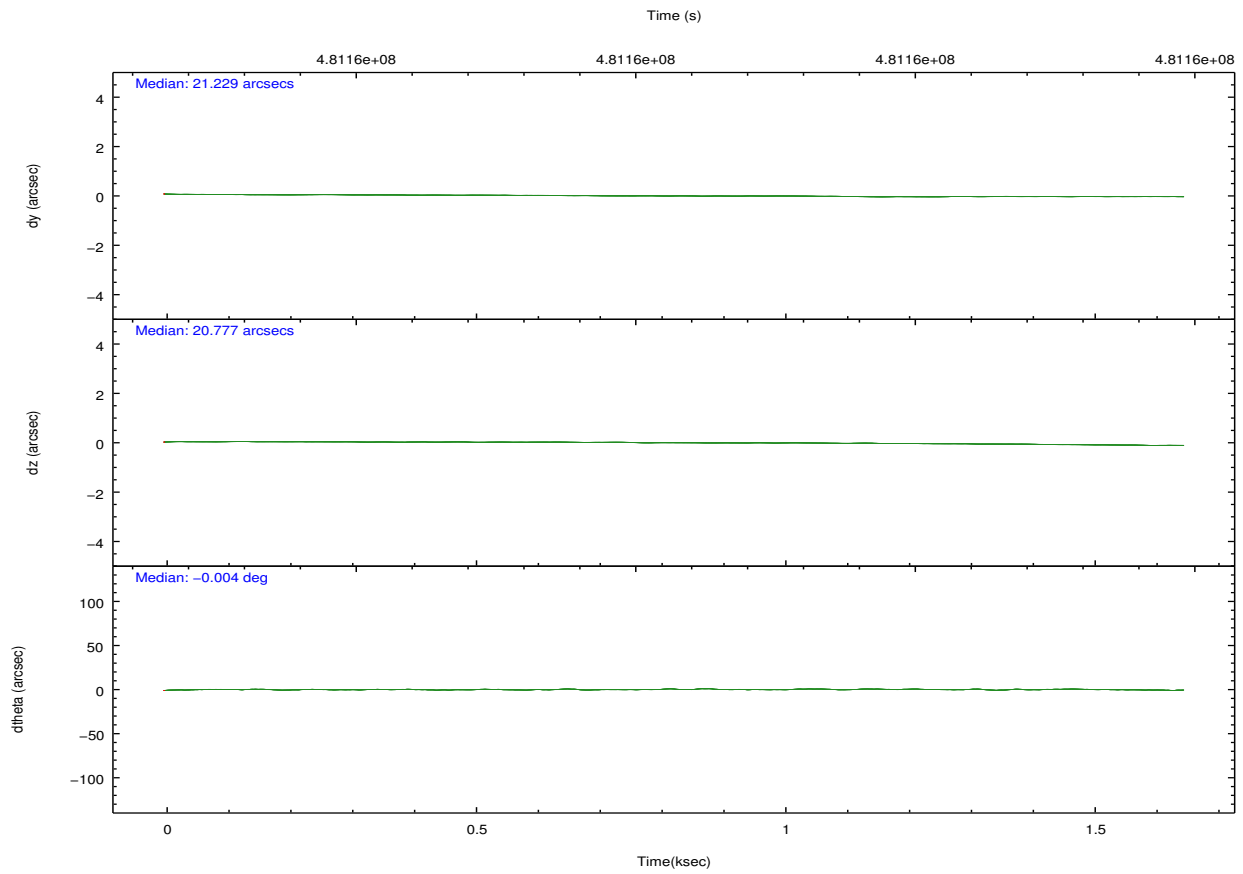
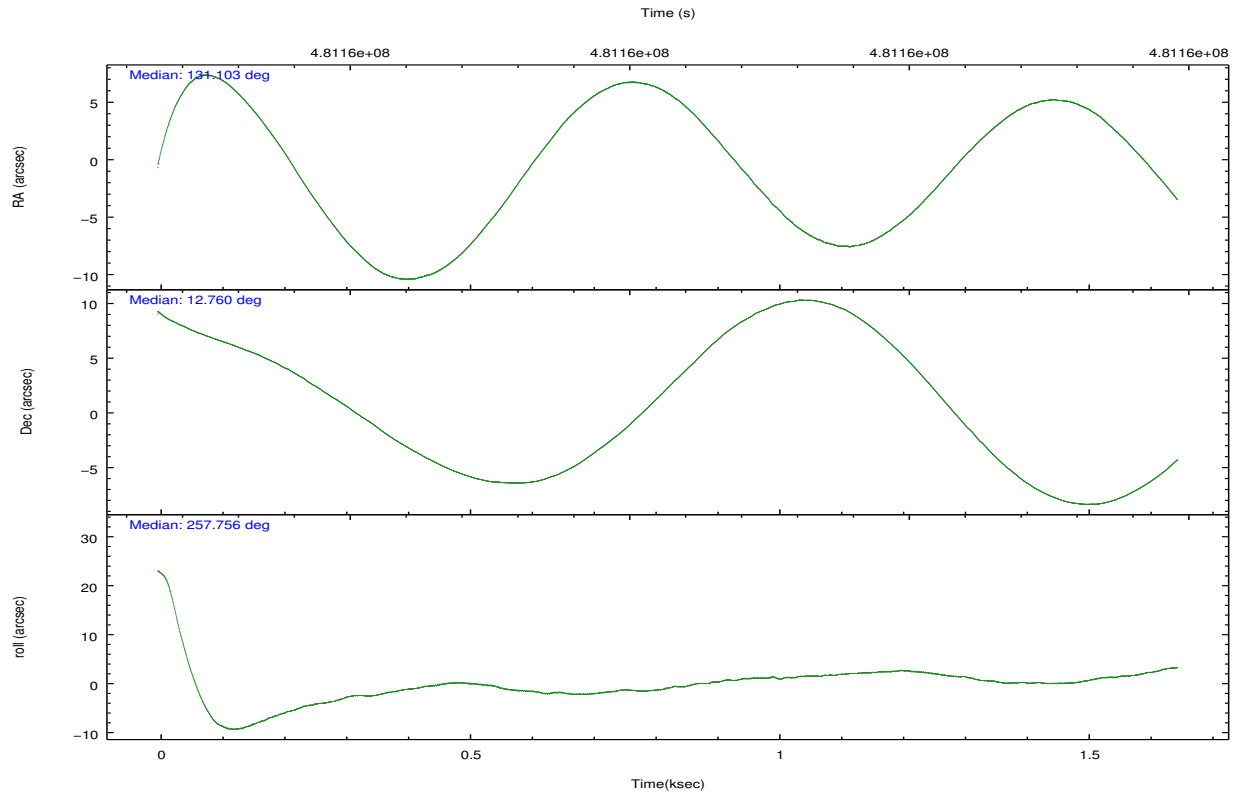
	ccd 6	ccd 7	ccd 8
grade 0 events	90	156	171
	3%	6%	5%
grade 1 events	0	2	1
	0%	0%	0%
grade 2 events	58	285	149
	2%	11%	4%
grade 3 events	50	157	75
	1%	6%	2%
grade 4 events	46	121	75
	1%	4%	2%
grade 5 events	105	257	127
	3%	10%	3%
grade 6 events	54	612	189
	2%	24%	5%
grade 7 events	2230	954	2586
	84%	37%	76%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	131.094116	131.103198081045	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	12.786711	12.76062925273241	Subarray start row	385	385
[deg] Pointing Roll	257.610662	257.7655186461078	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.9
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	481162895.184000	481161870.0113			
Observation start date	2013-04-01T00:20:28	2013-04-01T00:04:30			
[s] Observation end time (MET)	481164396.184000	481164621.62395			
Observation end date	2013-04-01T00:45:29	2013-04-01T00:50:21			
Read mode	TIMED	TIMED			

## 2.3 Aspect





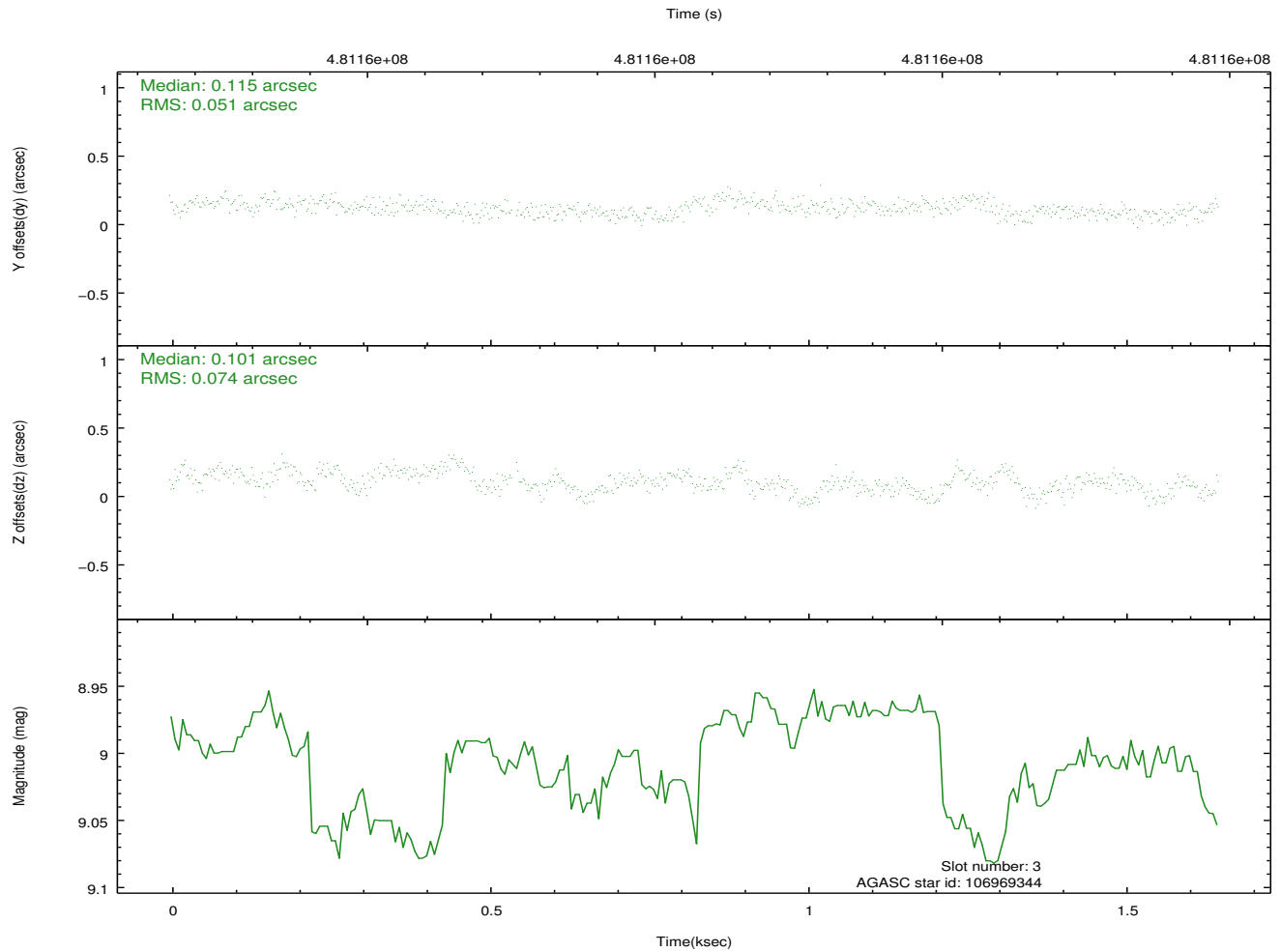
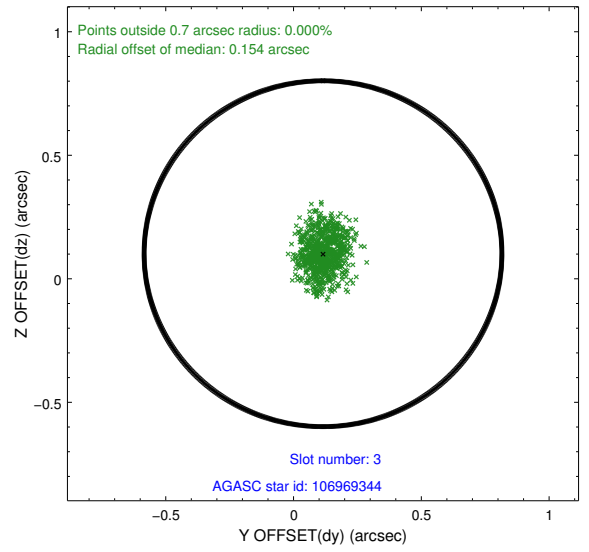
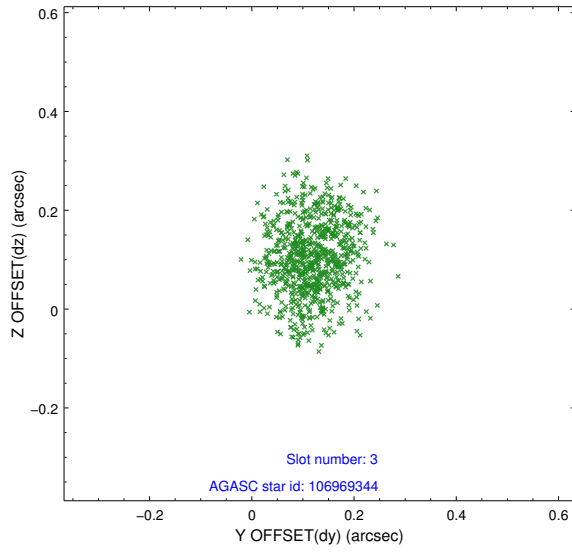
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	403	-0.113	-0.009	0.006	0.011	0.000000	0.000000	-774.49	-1742.26
1	FID		ACIS-S-4	7.03	403	0.214	0.057	0.005	0.009	0.000000	0.000000	2137.27	162.13
2	FID		ACIS-S-5	7.06	402	-0.132	-0.039	0.006	0.010	0.000000	0.000000	-1822.23	160.25
3	GUIDE	used	106969344	9.00	801	0.115	0.101	0.099	0.154	131.424986	12.841463	-442.34	1091.46
4	GUIDE	used	106975904	9.08	805	-0.064	0.206	0.125	0.194	131.496925	13.263501	-1979.74	1010.90
5	GUIDE	used	106976208	8.36	805	-0.187	0.033	0.087	0.143	131.767701	13.247280	-2132.09	1949.83
6	GUIDE	used	106962968	8.87	804	0.151	-0.152	0.081	0.134	130.463087	13.055809	-476.36	-2367.91
7	GUIDE	used	106965360	8.74	803	-0.012	-0.195	0.084	0.139	130.587812	12.638213	901.55	-1626.02

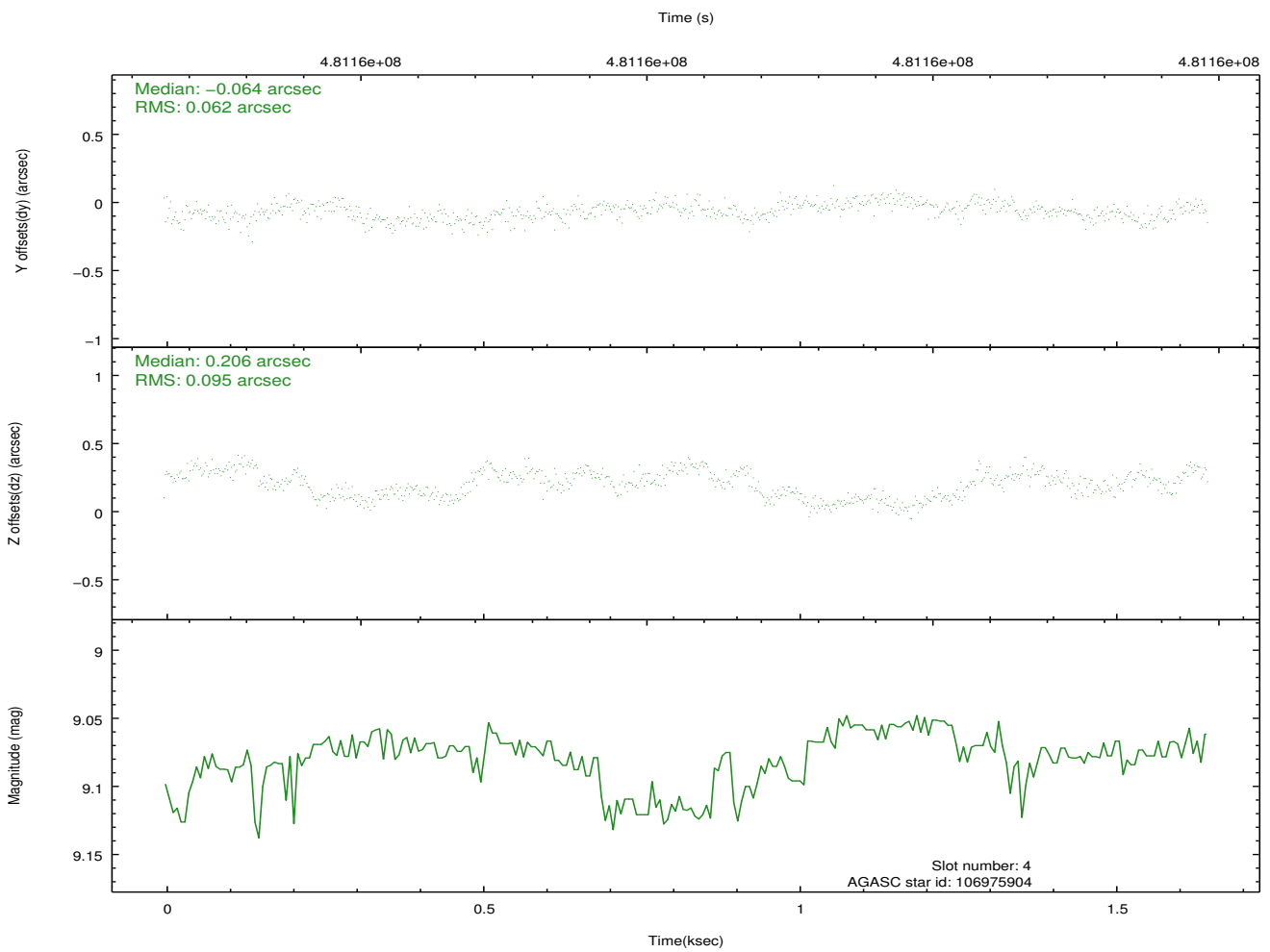
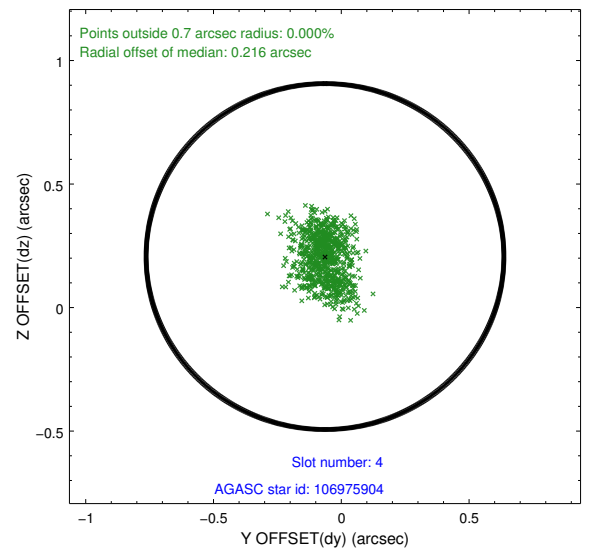
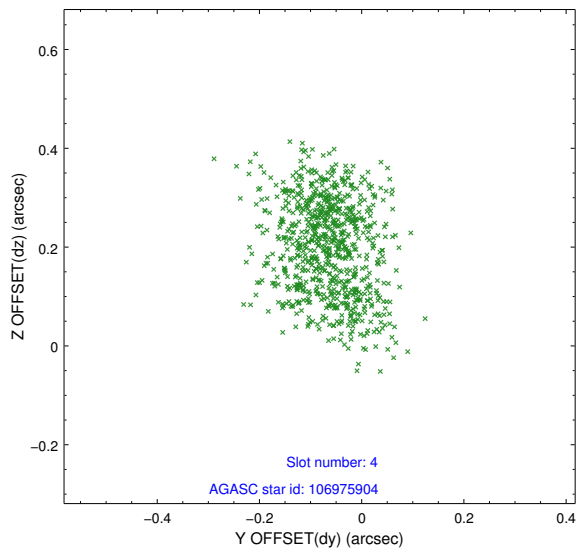
∞

## 2.4 Star Slots

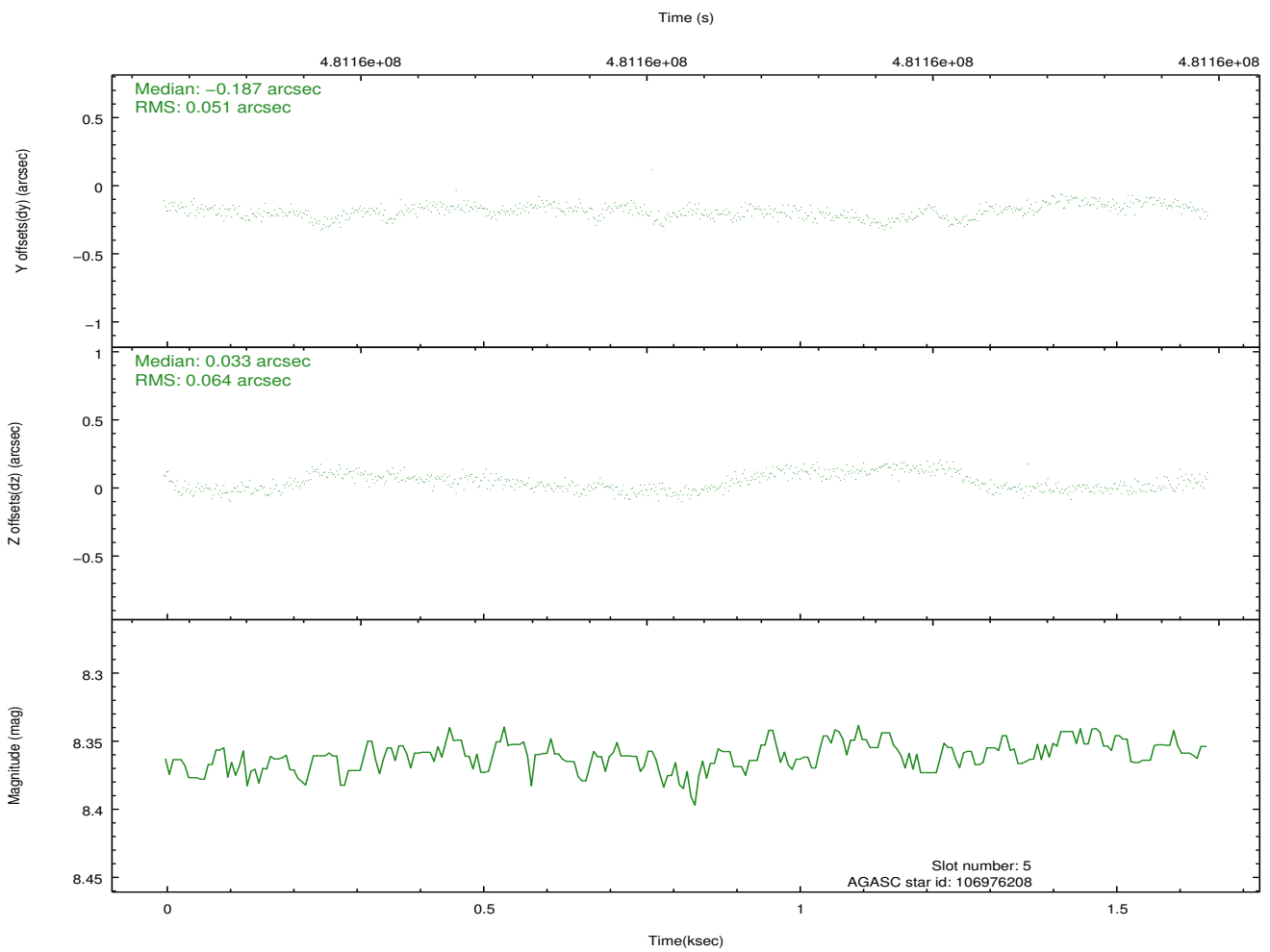
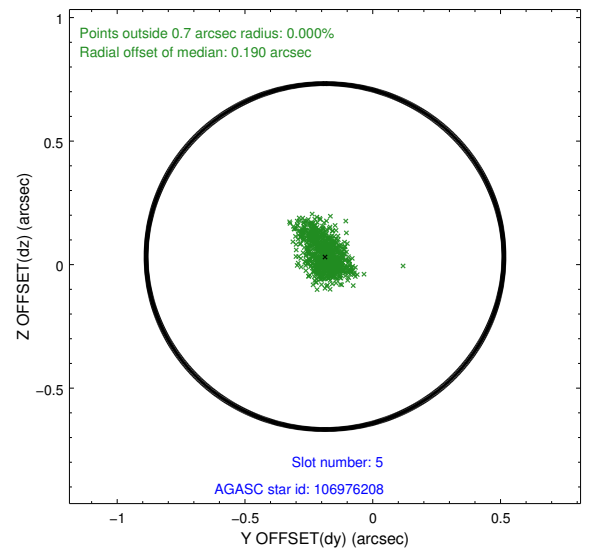
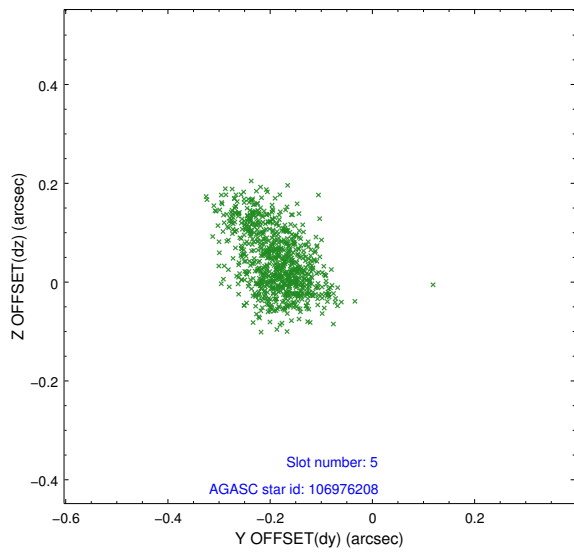
### 2.4.1 Slot 3



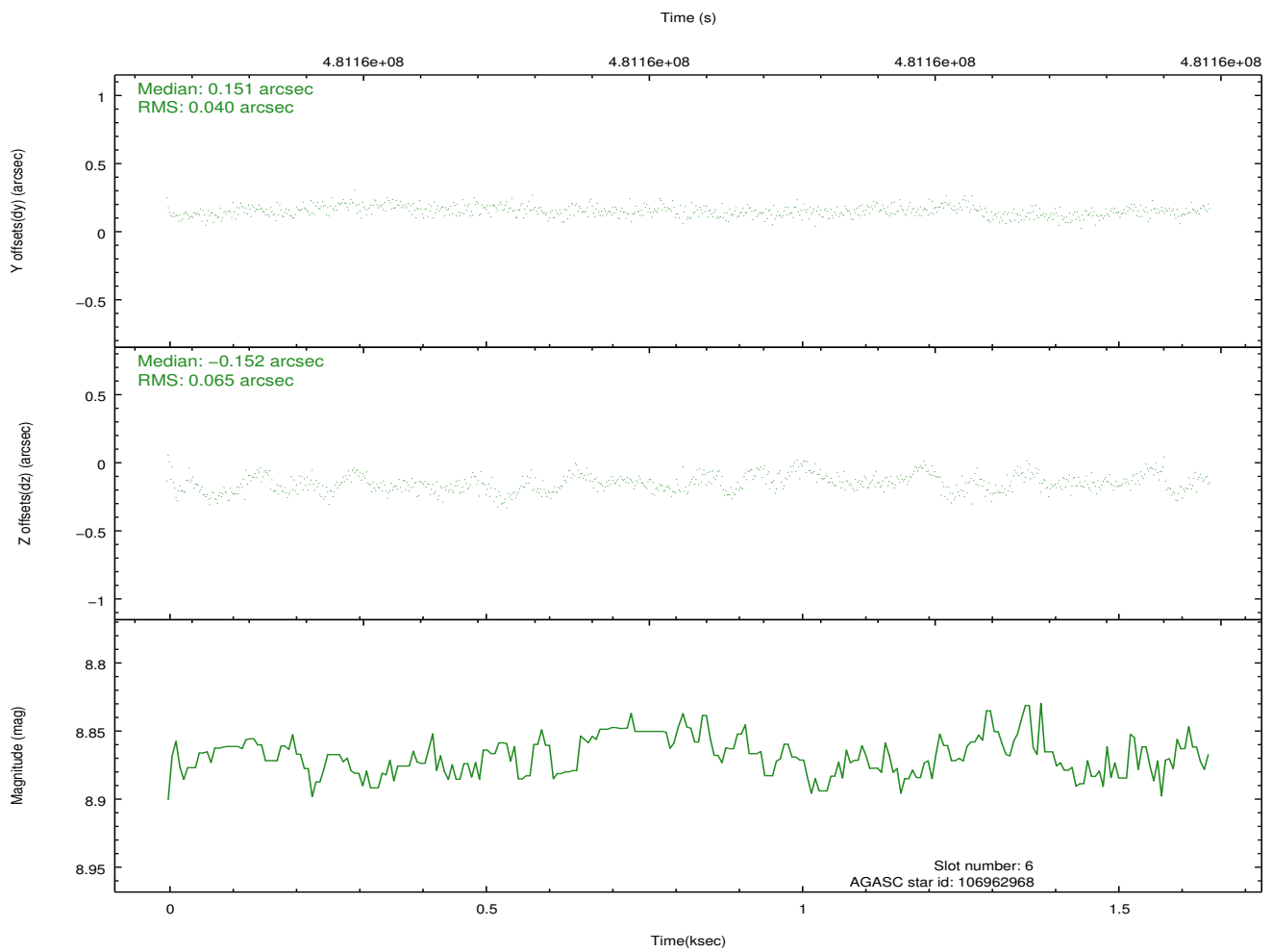
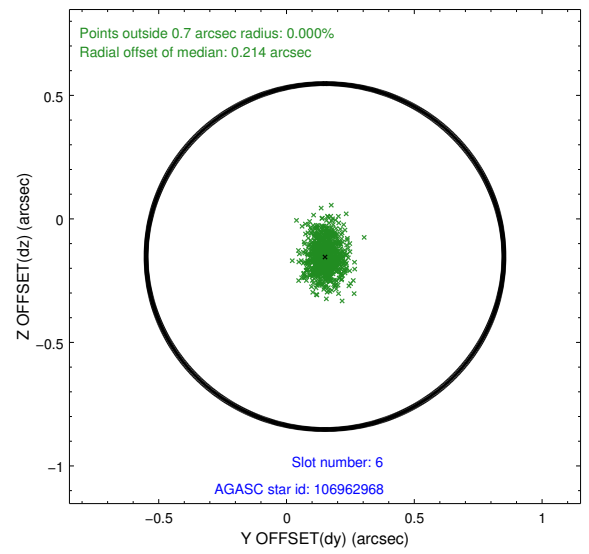
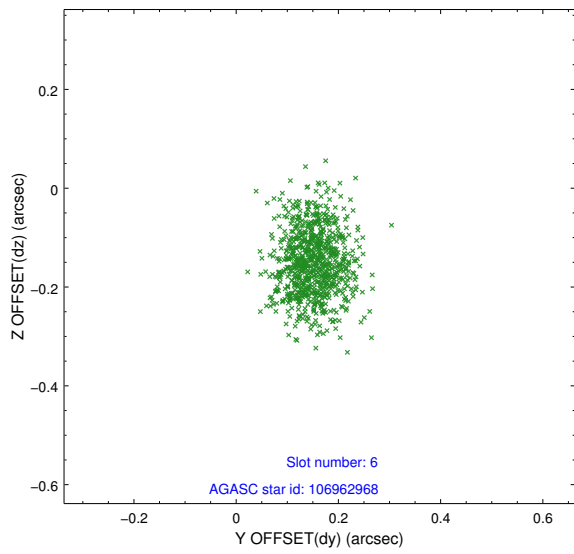
## 2.4.2 Slot 4



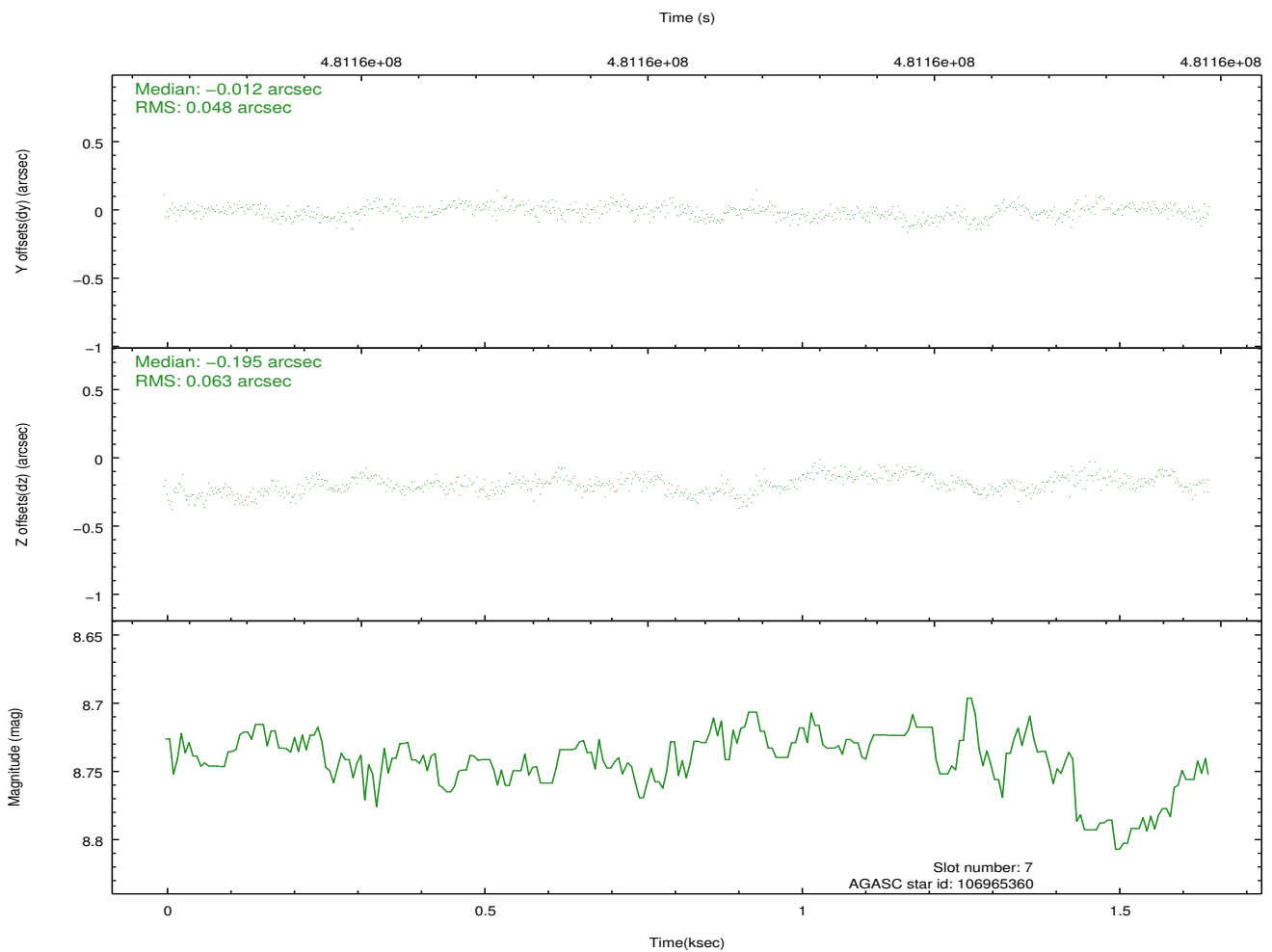
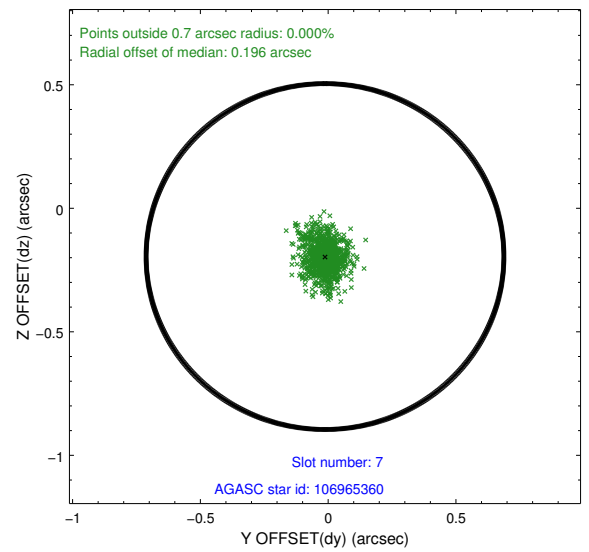
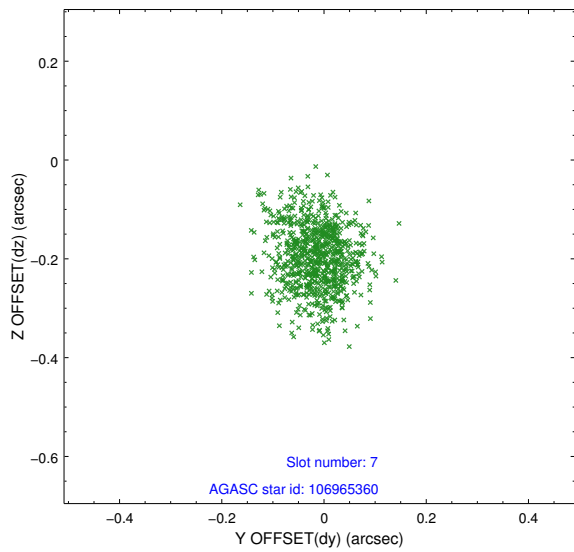
### 2.4.3 Slot 5



## 2.4.4 Slot 6

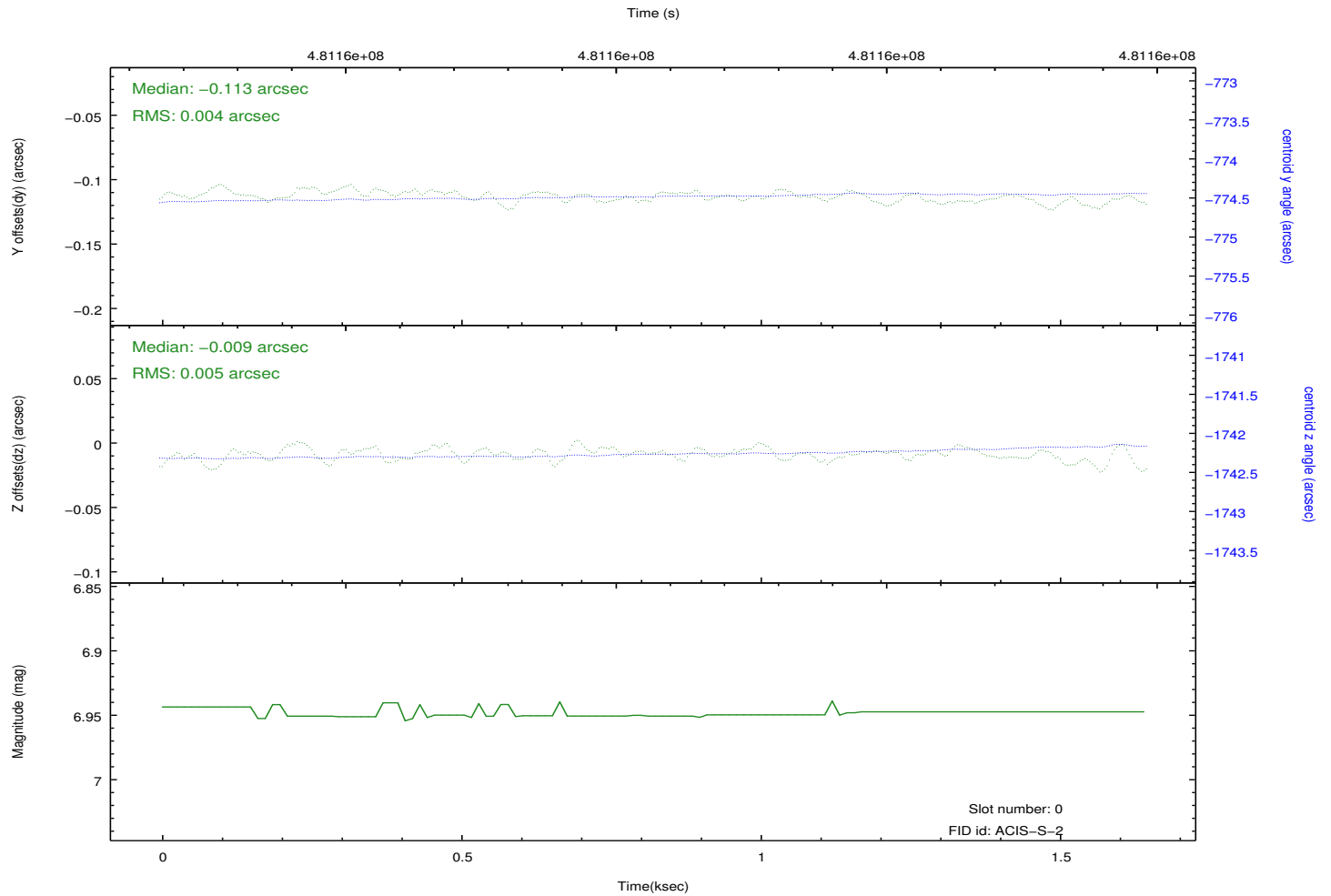
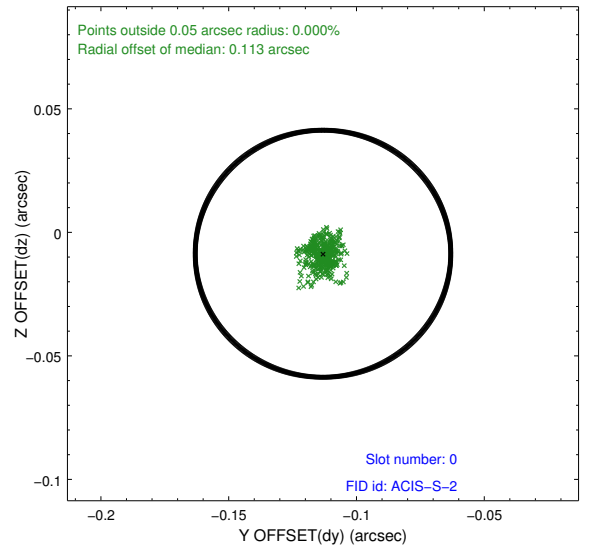
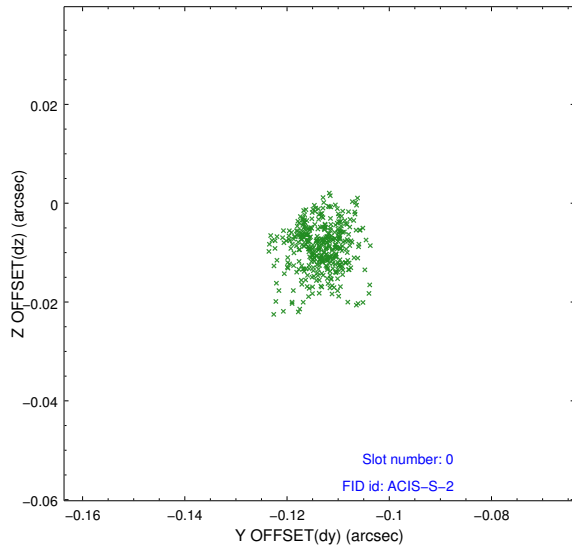


## 2.4.5 Slot 7

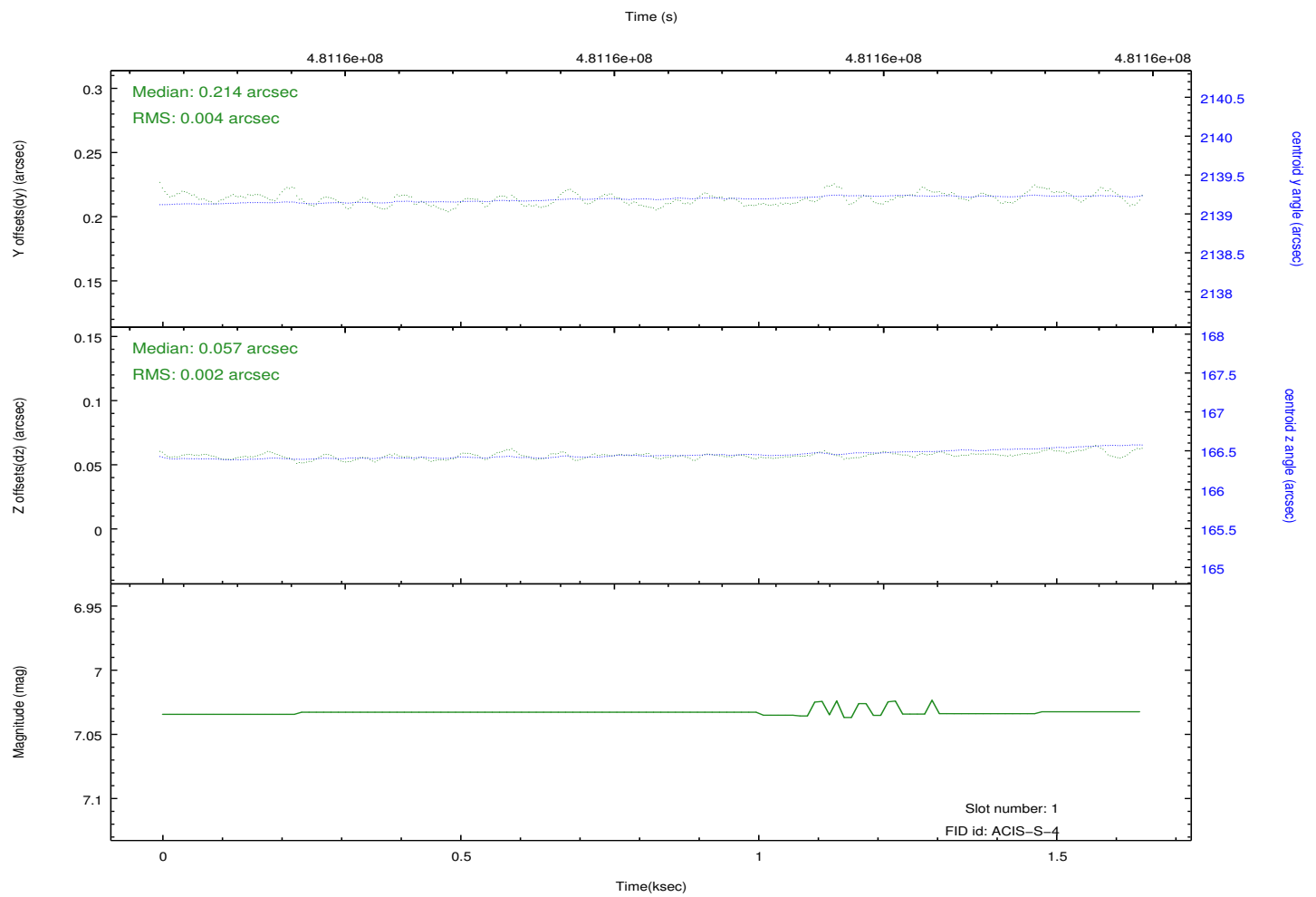
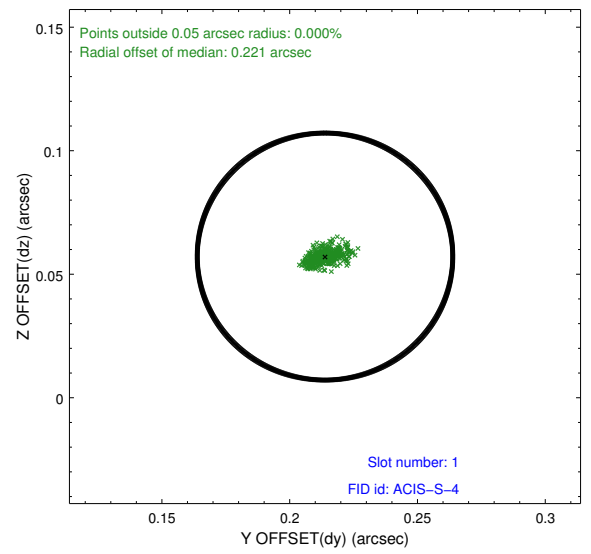
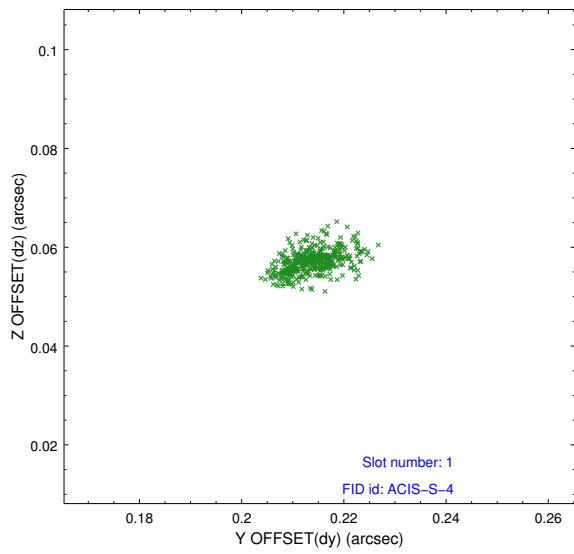


## 2.5 FID Slots

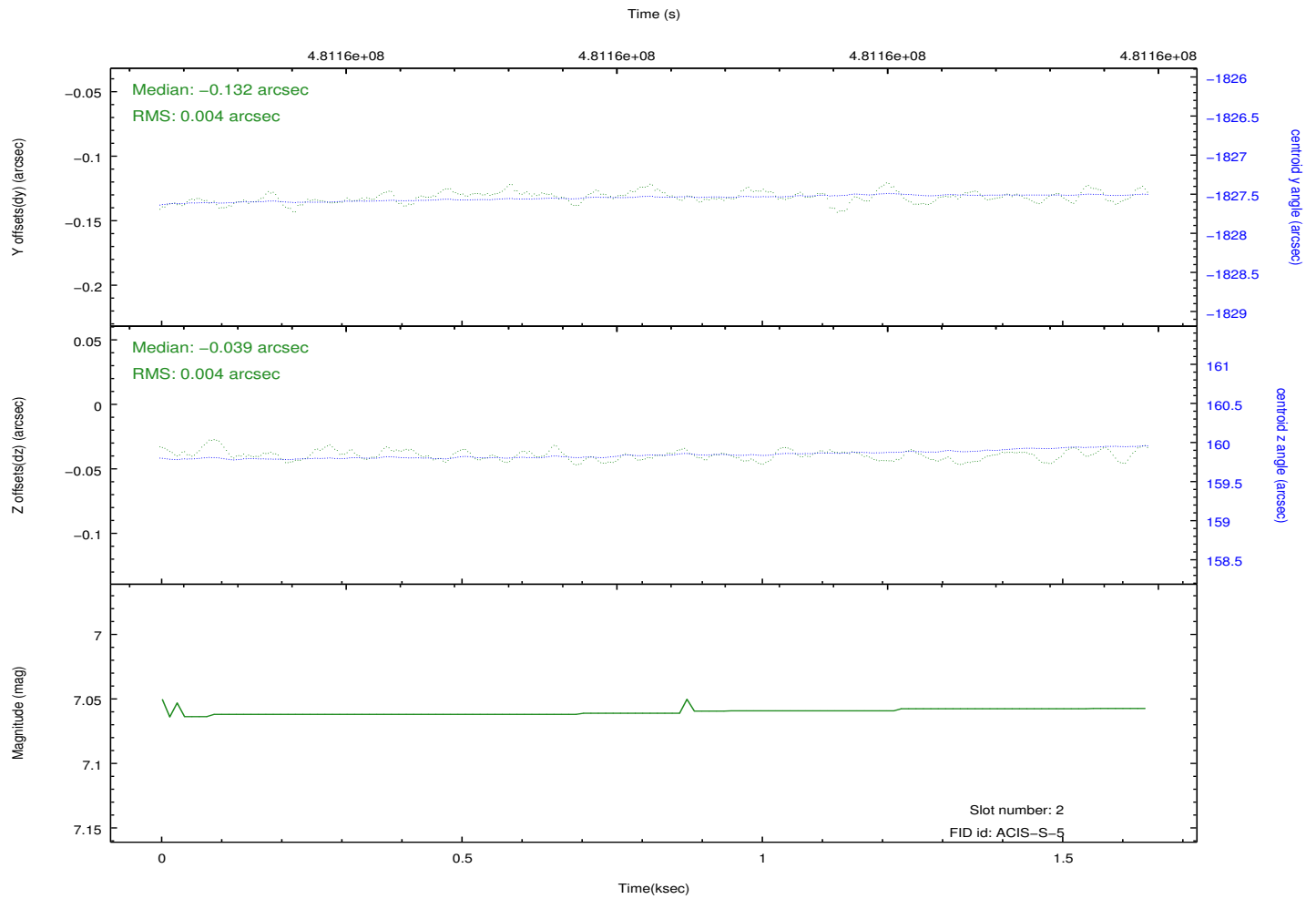
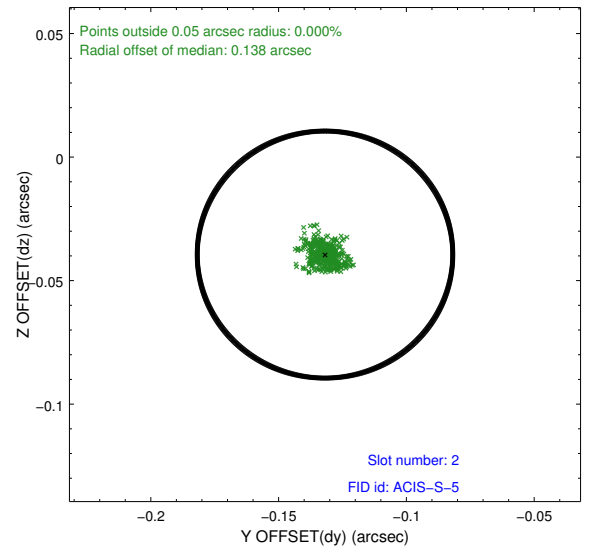
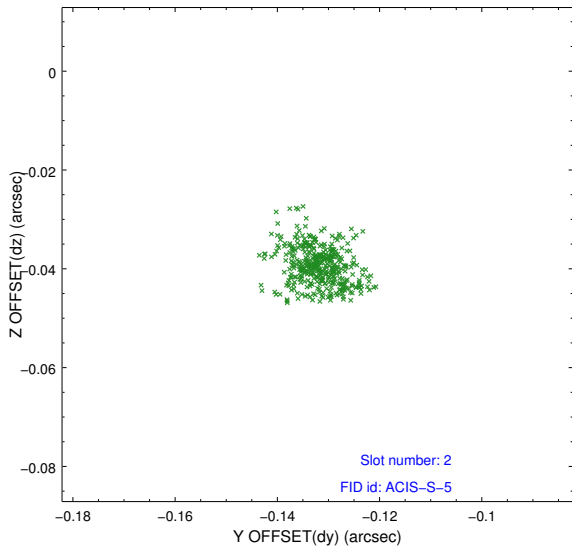
### 2.5.1 Slot 0



## 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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5947999577522

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.