

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11659 - L2 Version 2  
Chandra X-Ray Center

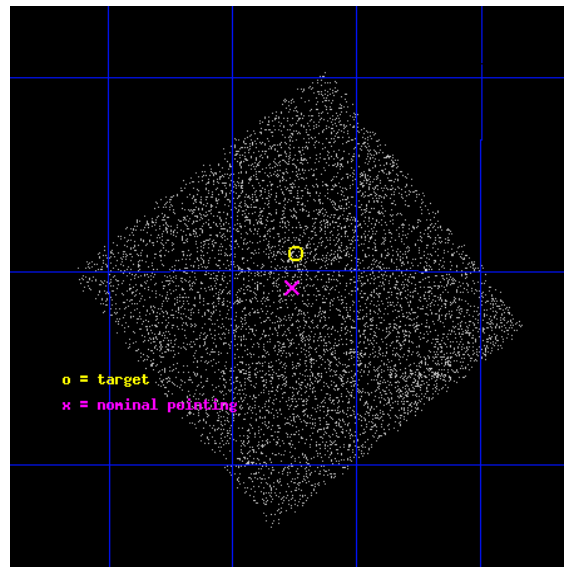
L2 Processing Date : Jun 13 2012

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# 1 Front

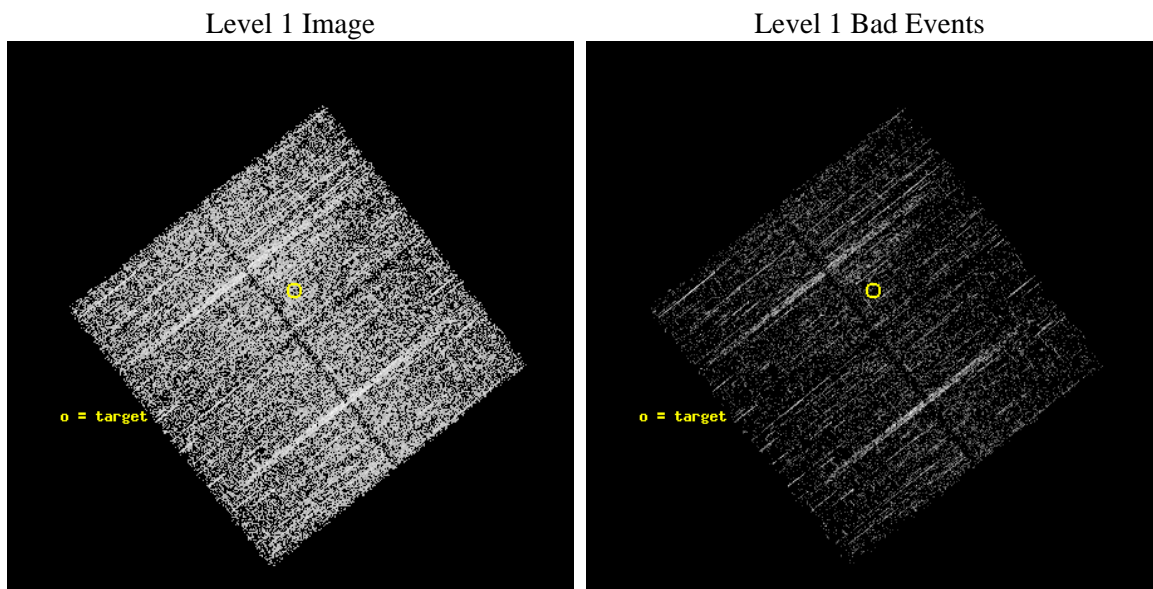
seq_num	702245	Sequence number
obs_id	11659	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_1671	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	335.937083	Observer's specified target RA [deg]
dec_targ	-29.984111	Observer's specified target Dec [deg]
ra_nom	335.94060746637	Nominal RA [deg]
dec_nom	-30.014341695915	Nominal Dec [deg]
roll_nom	321.72439570491	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2678.4000205994	Sum of GTIs [s]
livetime	2643.4047525208	Livetime [s]
ontime0	2678.4000205994	Sum of GTIs [s]
ontime1	2678.4000205994	Sum of GTIs [s]
ontime2	2678.4000205994	Sum of GTIs [s]
ontime3	2678.4000205994	Sum of GTIs [s]
l2events	7863	Number of level 2 events



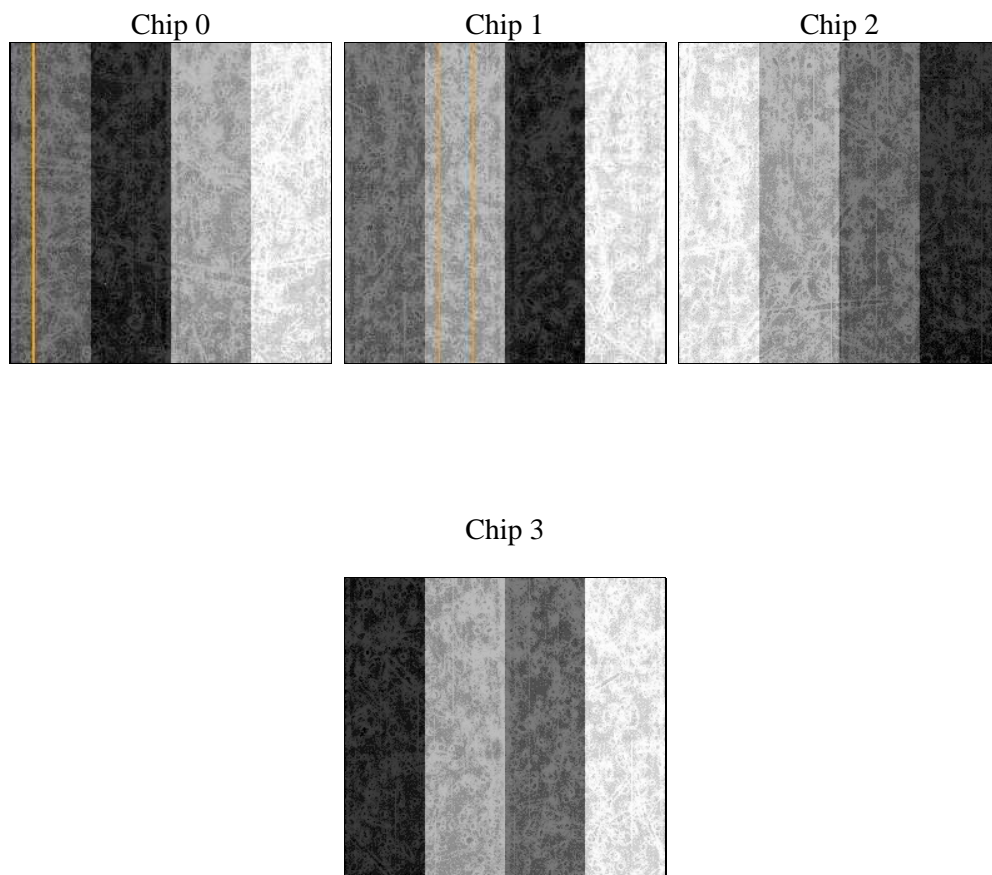
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2678.4000205994	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	2678.4000205994	Sum of GTIs [s]
date	2012-06-13T18:44:32	Date and time of file creation	ontime1	2678.4000205994	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2678.4000205994	Sum of GTIs [s]
			ontime3	2678.4000205994	Sum of GTIs [s]
			l1events	98784	Number of level 1 events

### 2.1.4 Events

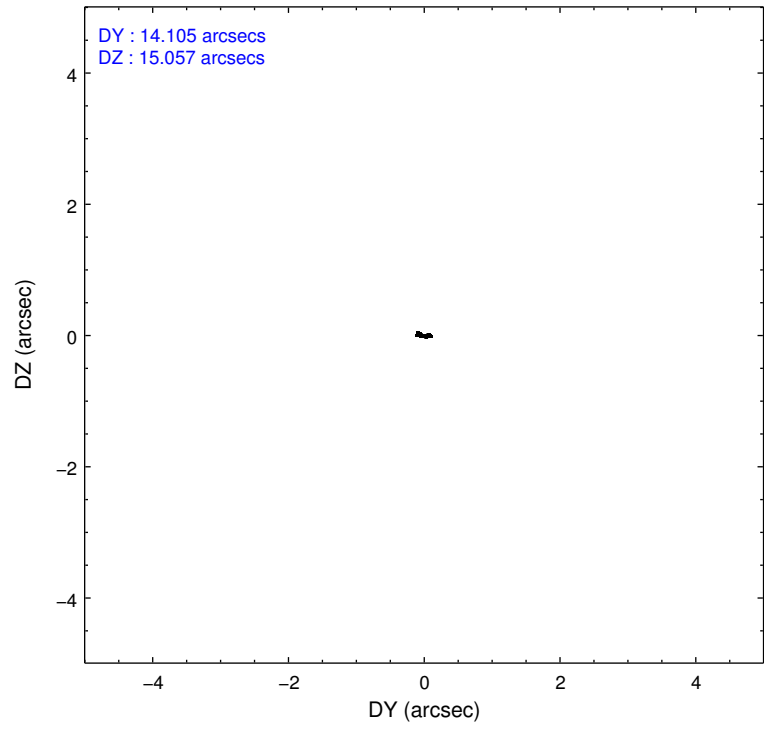
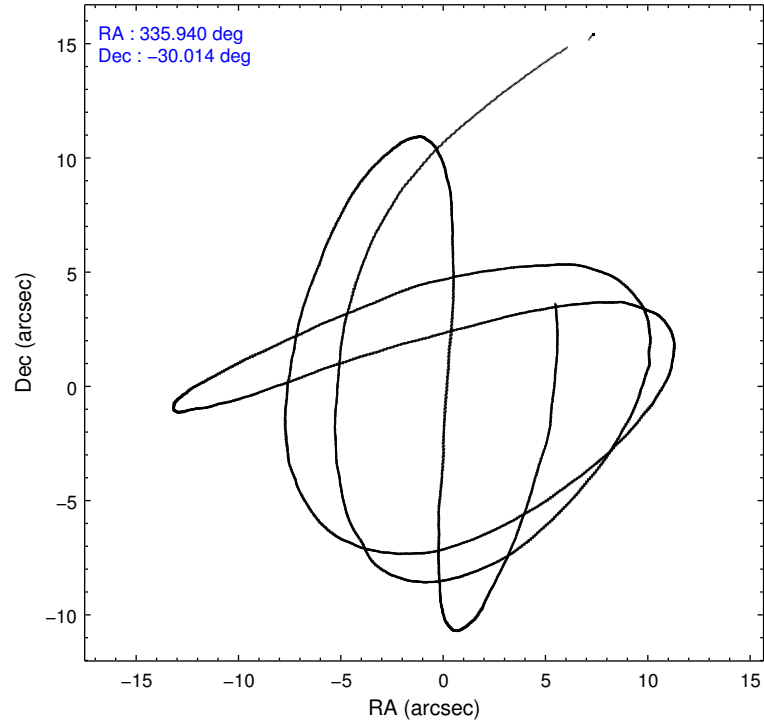
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	24327	23552	24886	26019
rejected events	21953	20864	22599	23806
rejected %	90%	88%	90%	91%

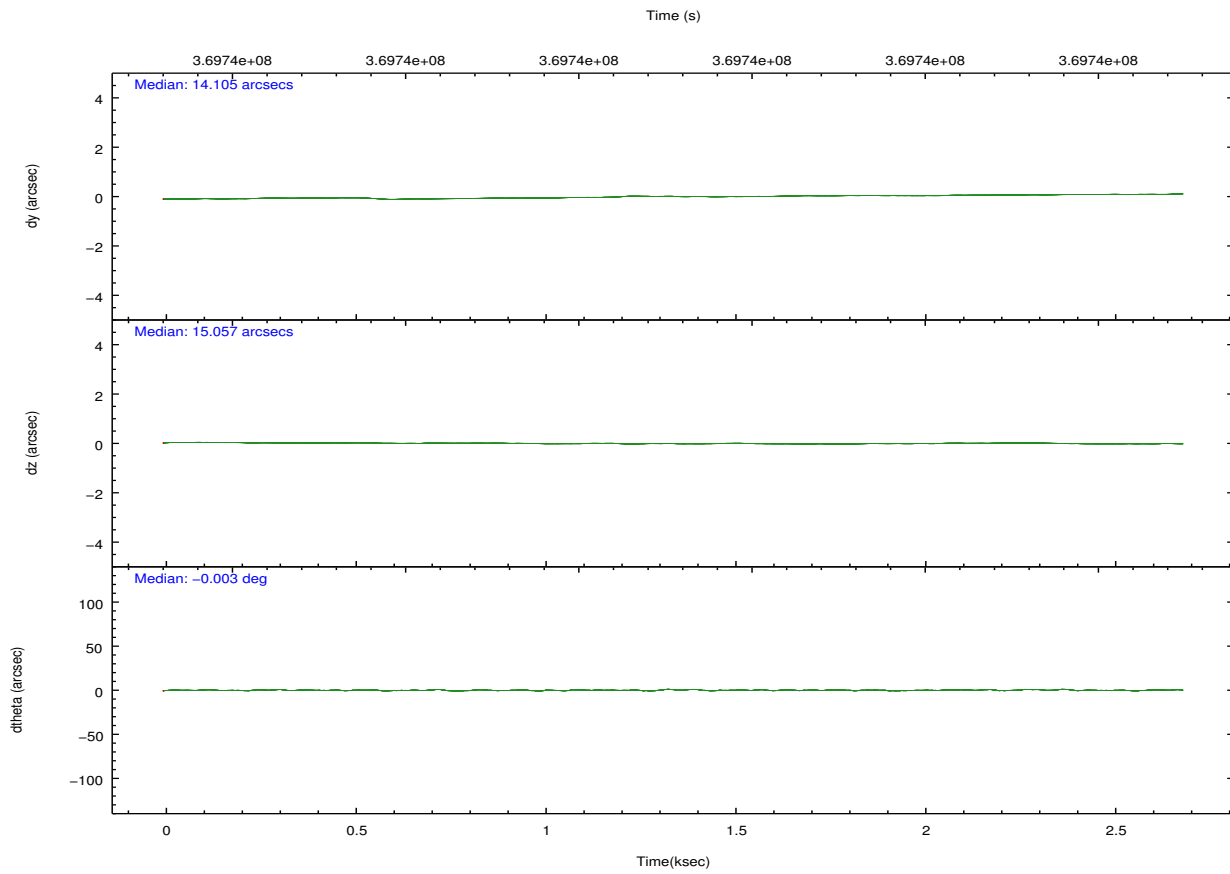
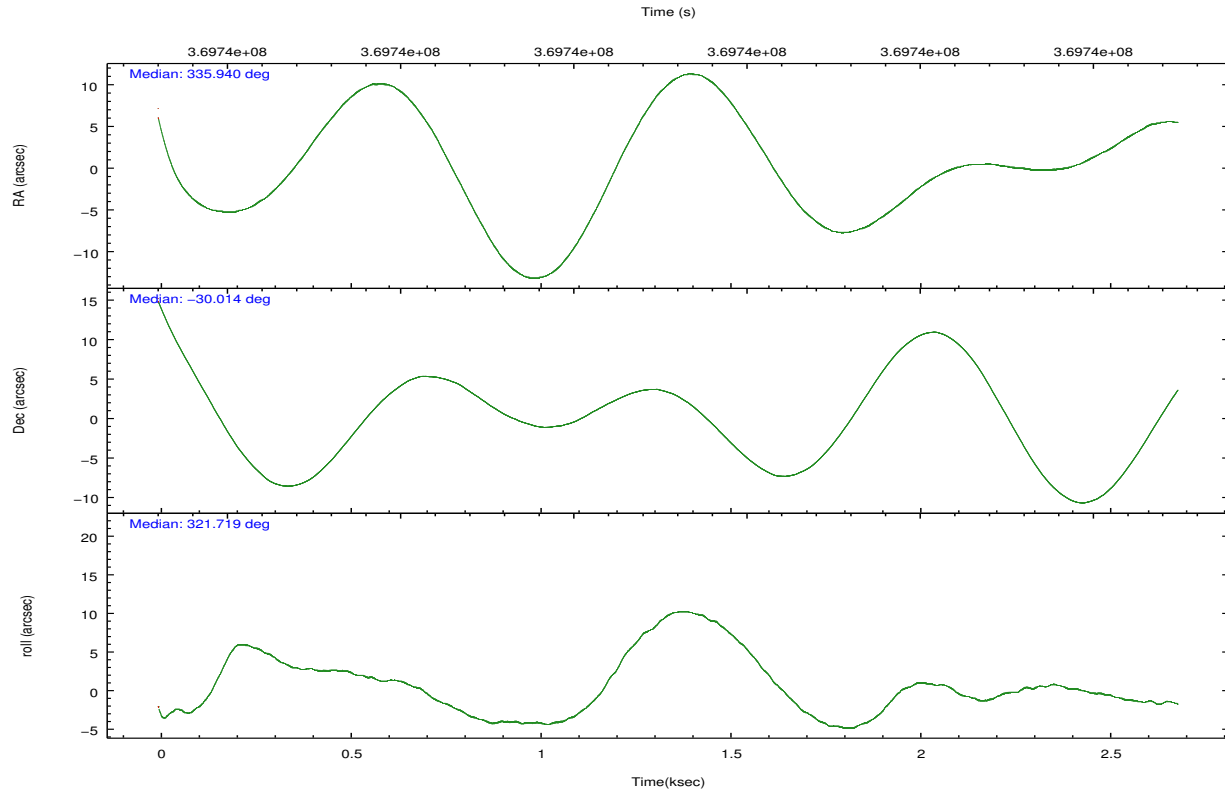
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	968	1120	909	959
	3%	4%	3%	3%
grade 1 events	11	14	15	22
	0%	0%	0%	0%
grade 2 events	614	716	610	531
	2%	3%	2%	2%
grade 3 events	286	312	277	289
	1%	1%	1%	1%
grade 4 events	286	328	278	266
	1%	1%	1%	1%
grade 5 events	984	1036	908	1086
	4%	4%	3%	4%
grade 6 events	491	563	506	495
	2%	2%	2%	1%
grade 7 events	20687	19463	21383	22371
	85%	82%	85%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	335.909043	335.9406074663701	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.010368	-30.01434169591516	Alternating exposures requested	N	N
[deg] Pointing Roll	321.499909	321.7243957049103	[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)	369737105.184000	369736014.62288			
Observation start date	2009-09-19T08:43:59	2009-09-19T08:26:54			
[s] Observation end time (MET)	369739605.184000	369741033.53564			
Observation end date	2009-09-19T09:25:39	2009-09-19T09:50:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect





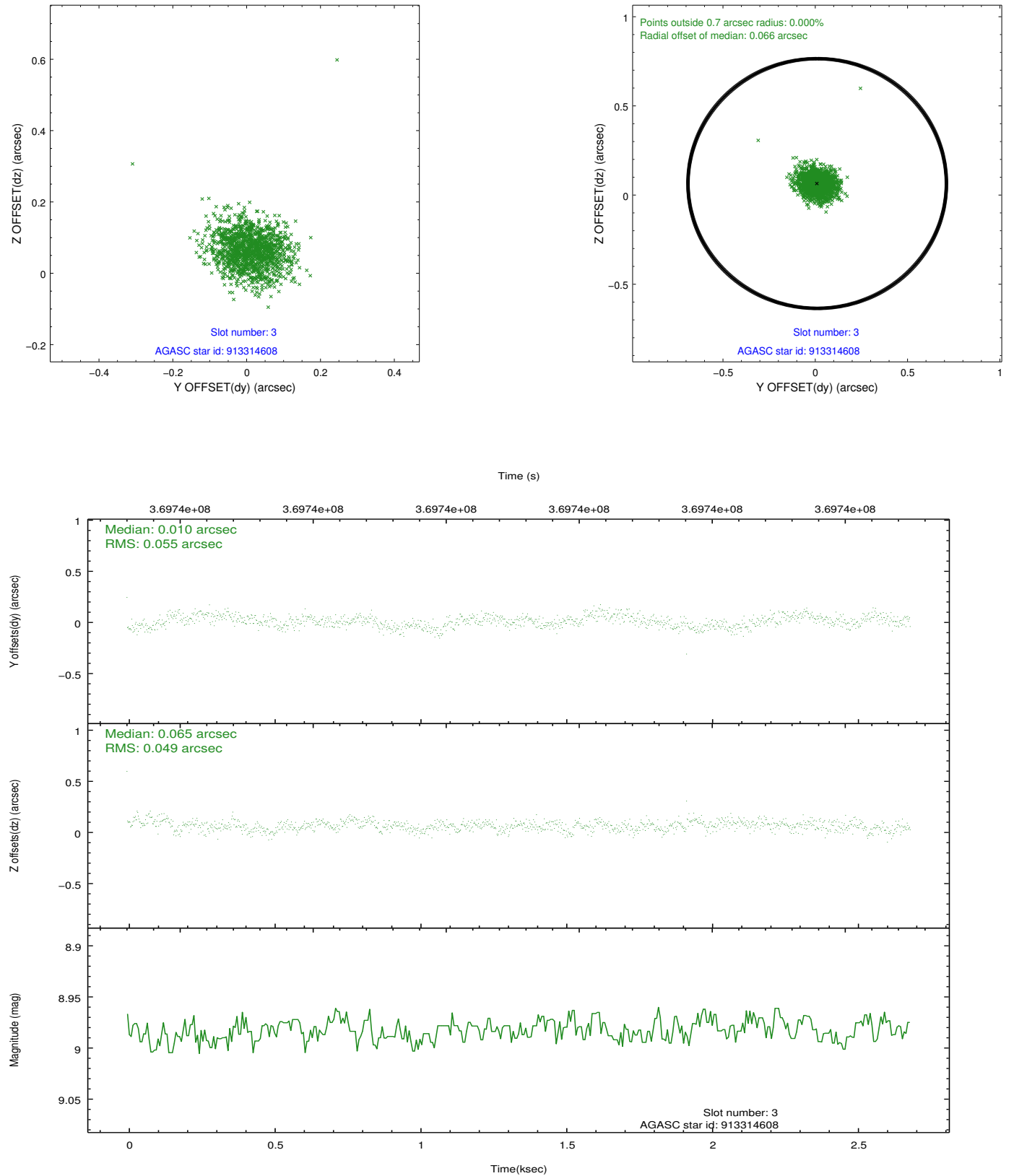
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	656	0.021	0.016	0.006	0.013	0.000000	0.000000	925.42	-838.63
1	FID	ACIS-I-5	6.98	655	-0.198	0.033	0.006	0.012	0.000000	0.000000	-1821.61	1057.63
2	FID	ACIS-I-6	6.99	656	0.087	0.022	0.006	0.012	0.000000	0.000000	388.39	1704.87
3	GUIDE	913314608	8.98	1311	0.010	0.065	0.077	0.124	335.885858	-29.694278	-765.22	845.44
4	GUIDE	982520928	9.66	1311	-0.039	0.056	0.126	0.197	335.110519	-30.251487	-1398.44	-2231.53
5	GUIDE	982523760	9.39	1309	-0.036	0.149	0.099	0.164	335.695882	-30.565092	725.41	-1975.97
6	GUIDE	913319984	9.46	1306	-0.119	-0.261	0.121	0.183	336.672474	-29.705461	1190.02	2337.48
7	GUIDE	982648720	9.75	1308	0.177	-0.008	0.147	0.238	336.252192	-30.720827	2426.12	-1339.58

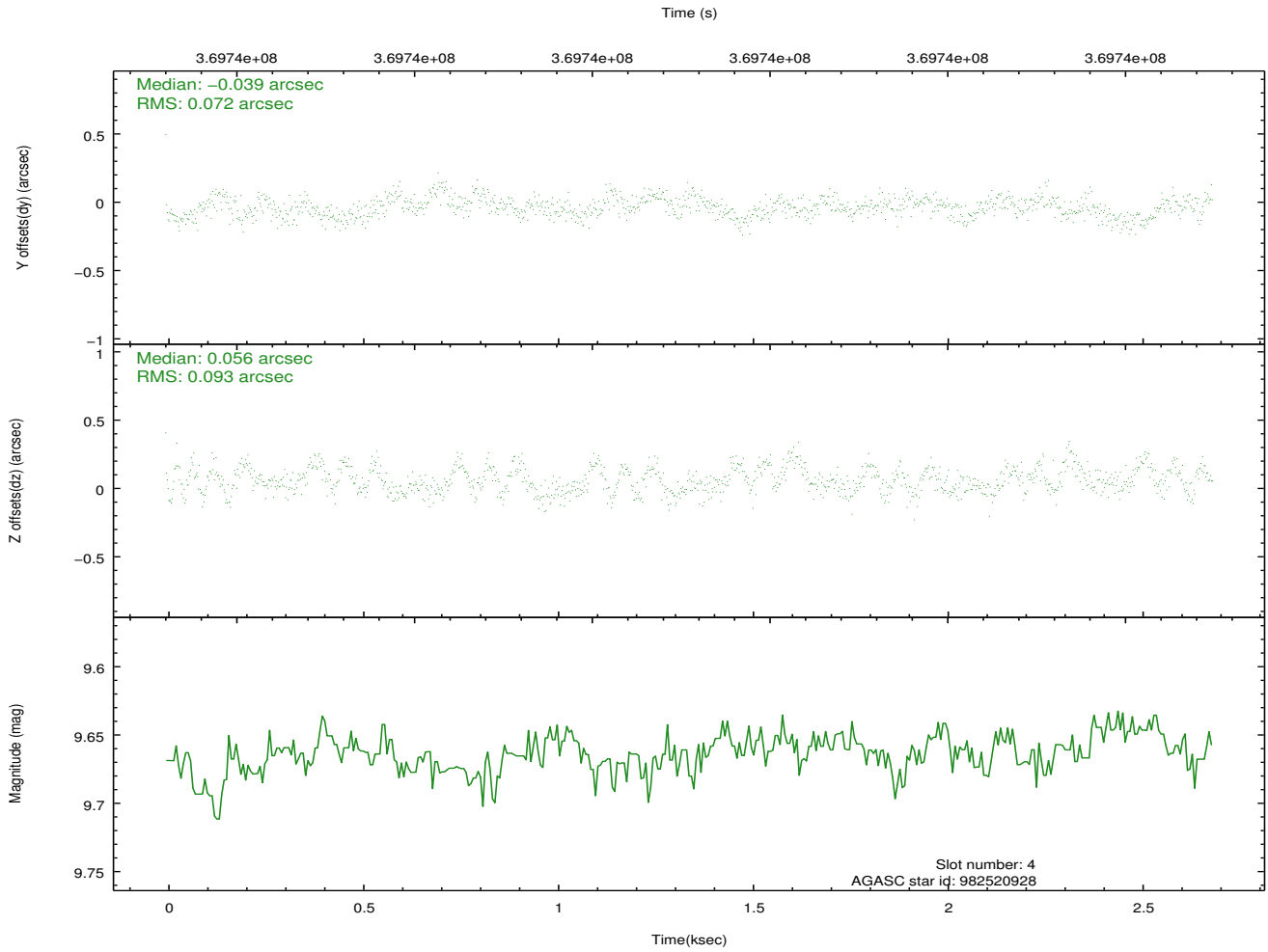
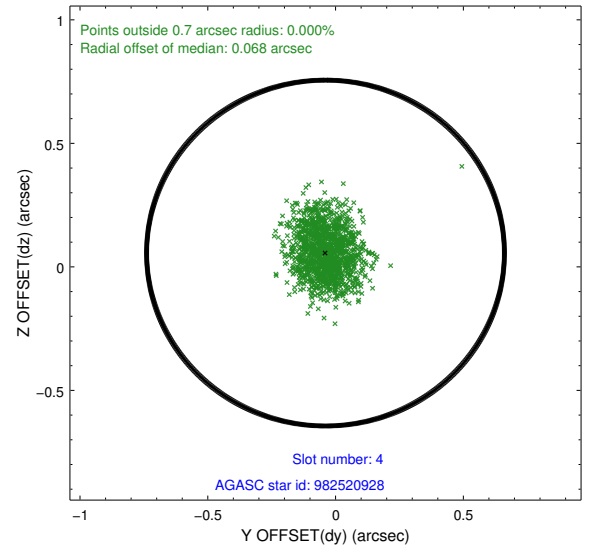
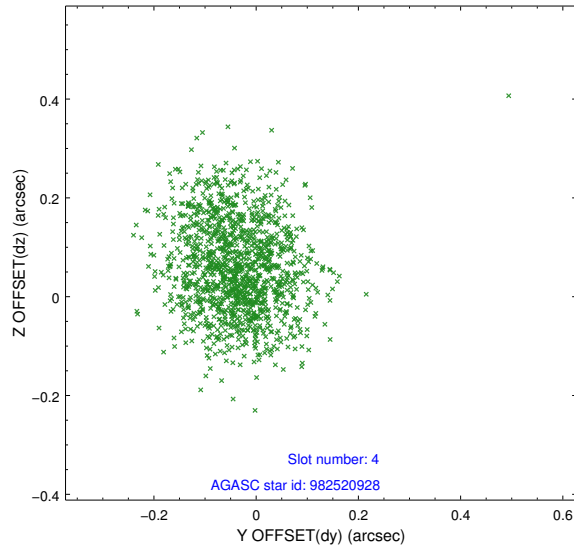


## 2.4 Star Slots

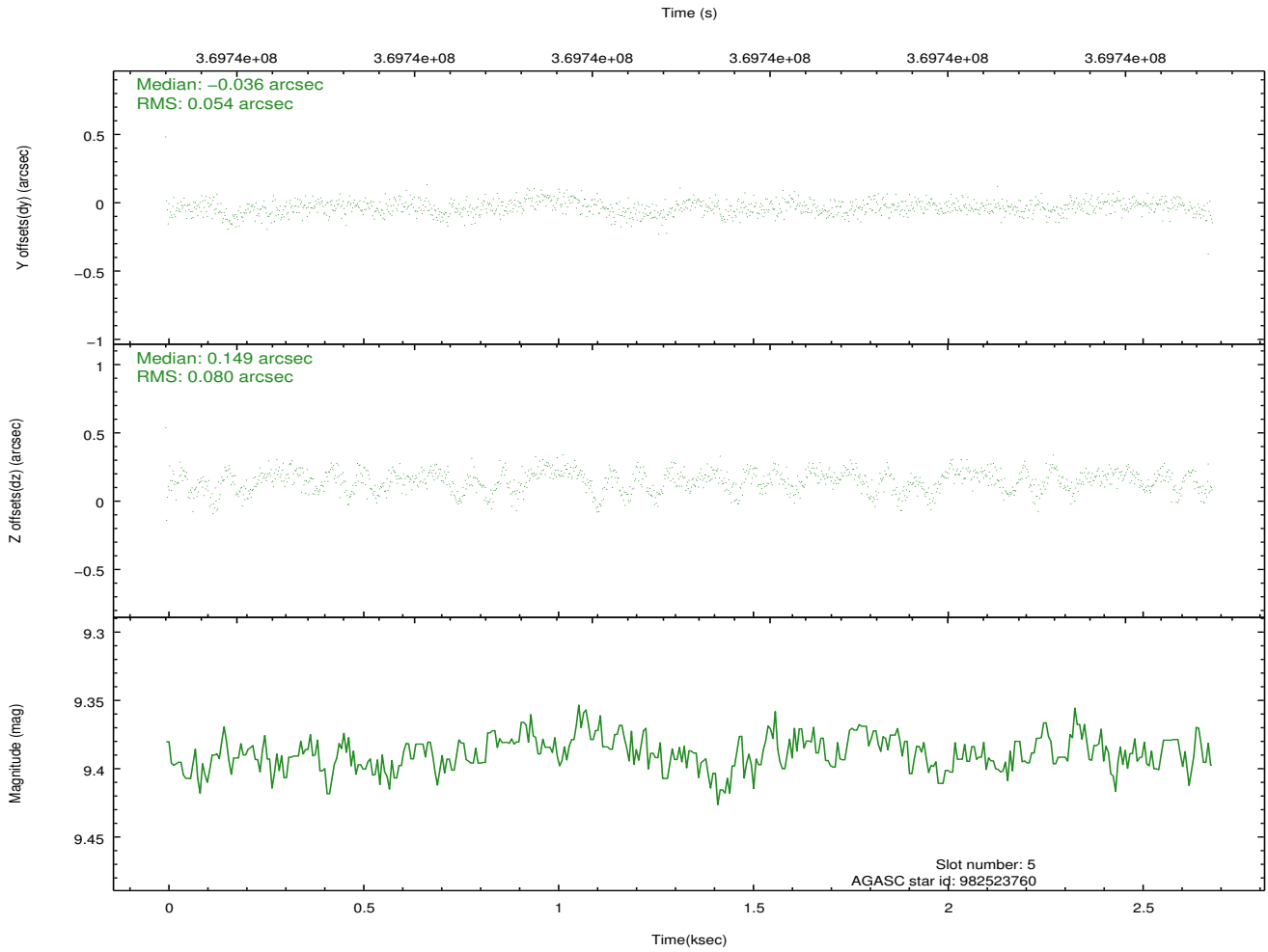
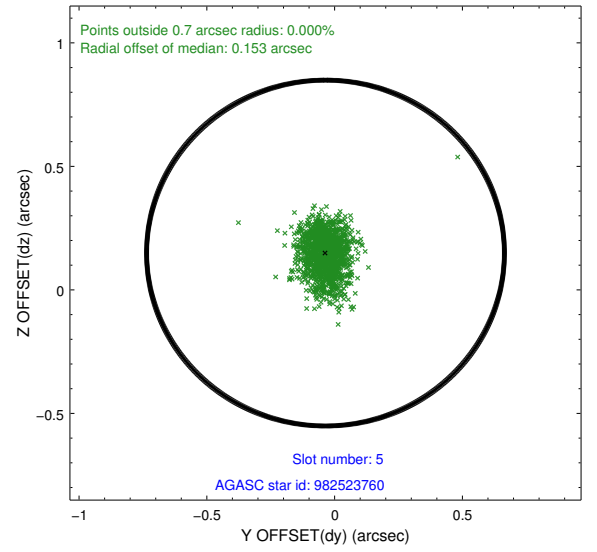
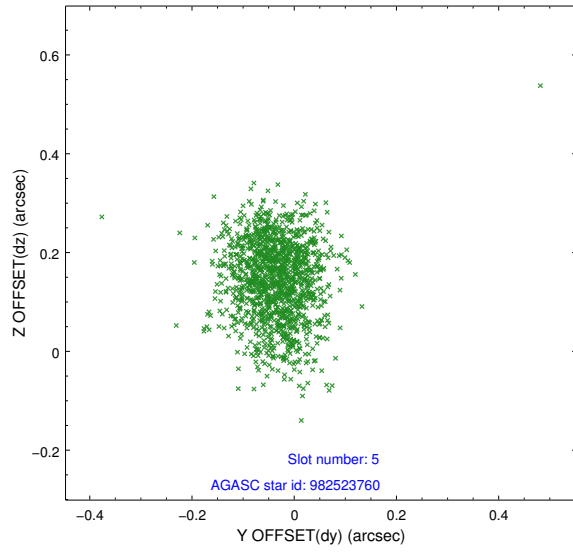
### 2.4.1 Slot 3



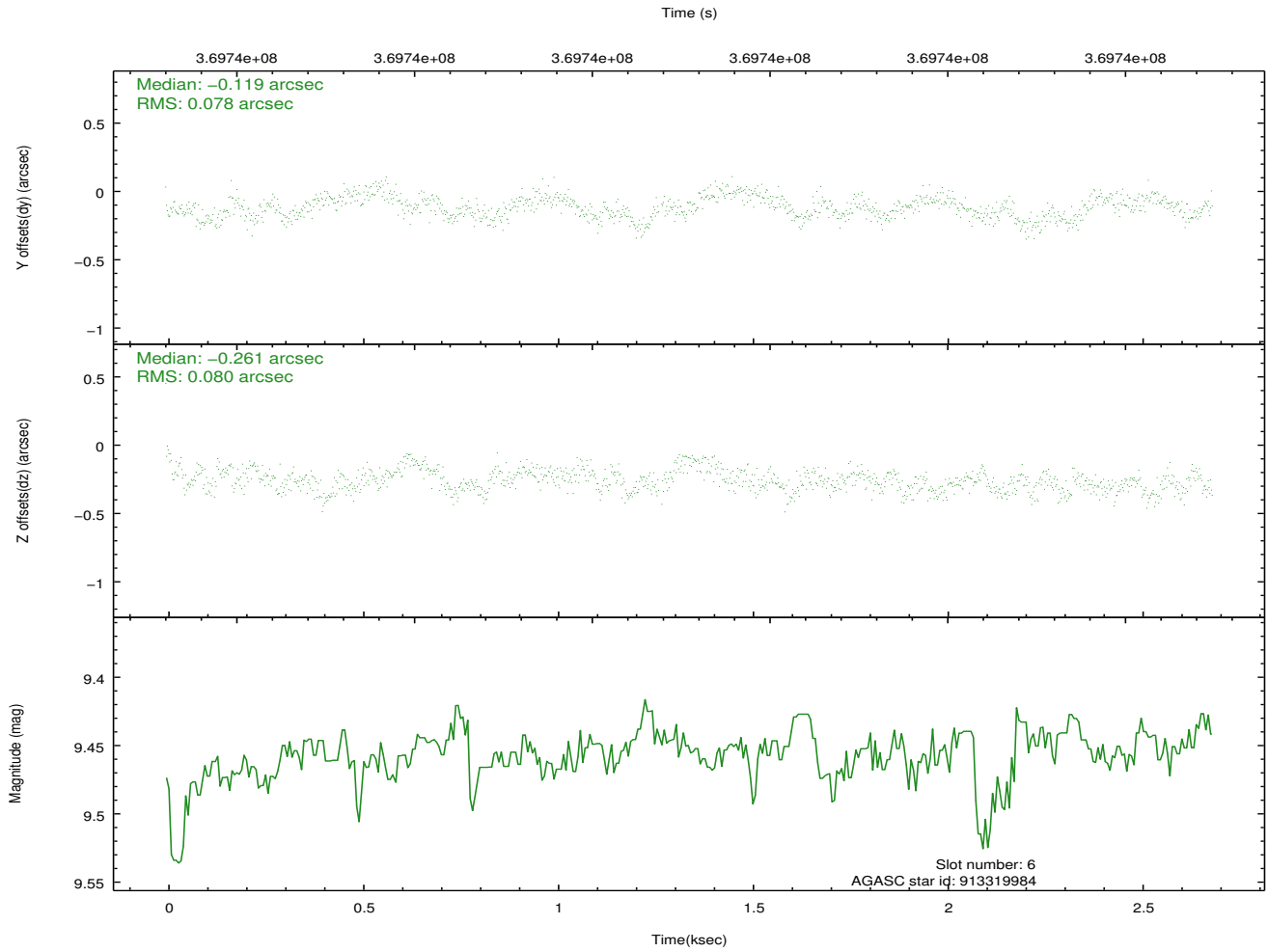
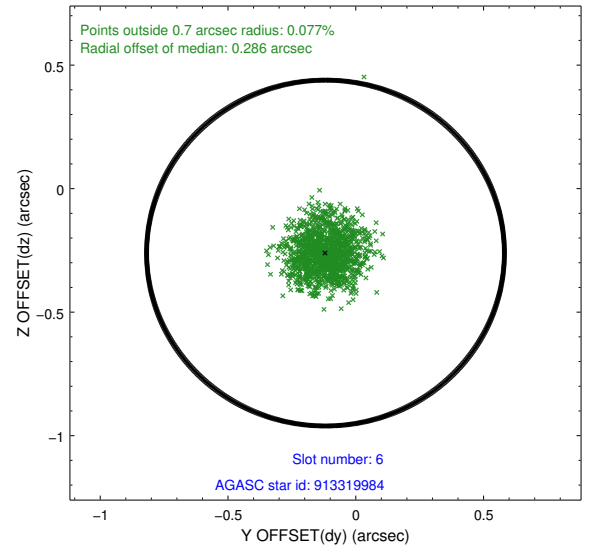
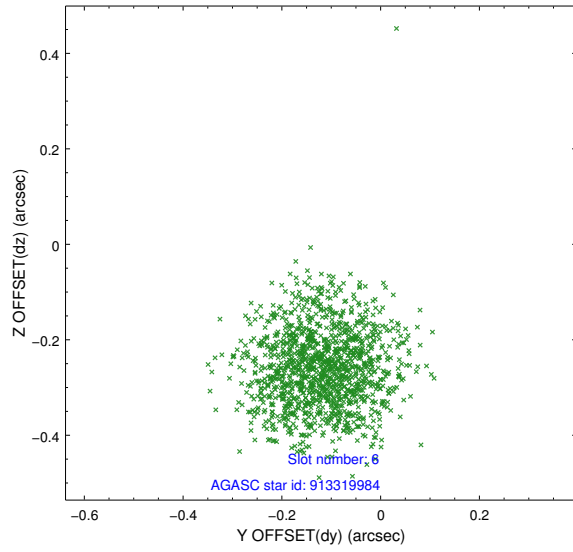
## 2.4.2 Slot 4



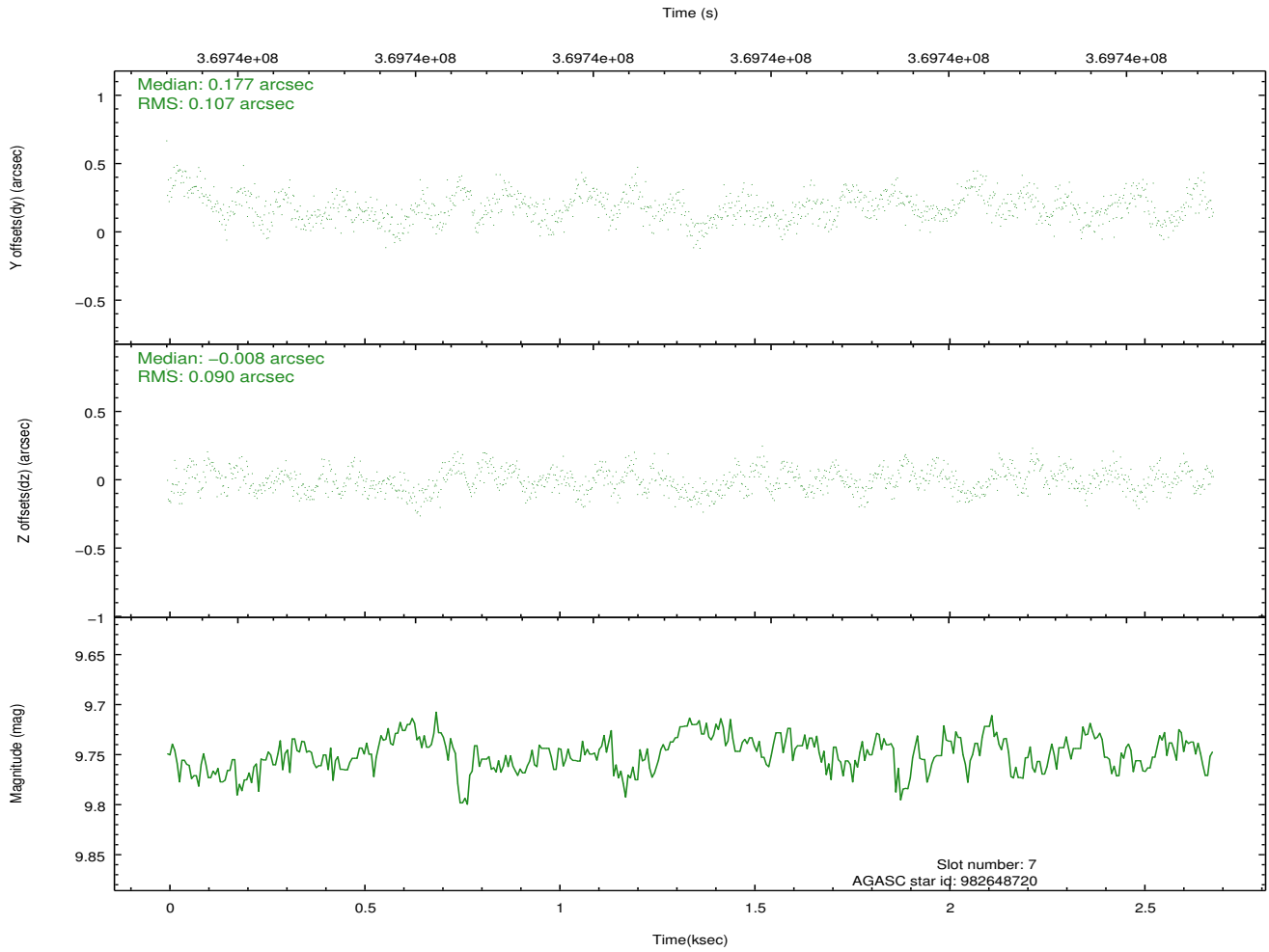
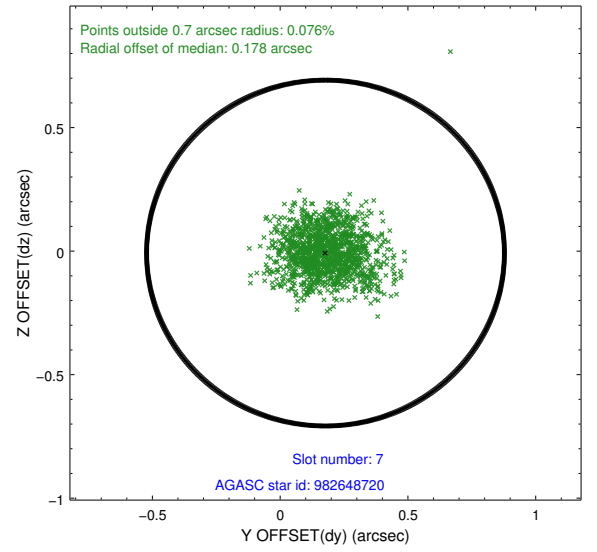
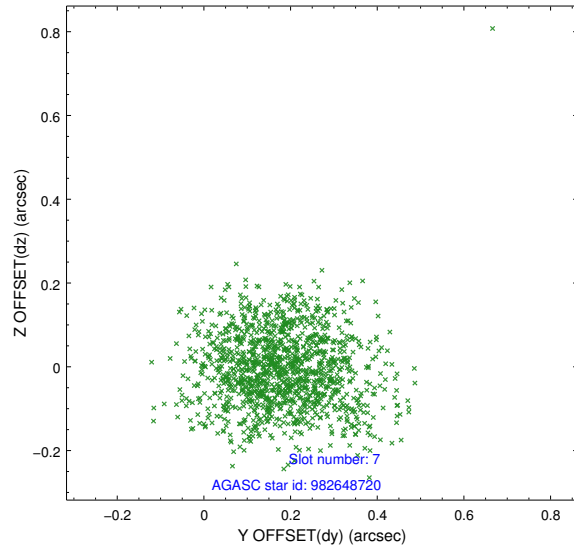
### 2.4.3 Slot 5



## 2.4.4 Slot 6

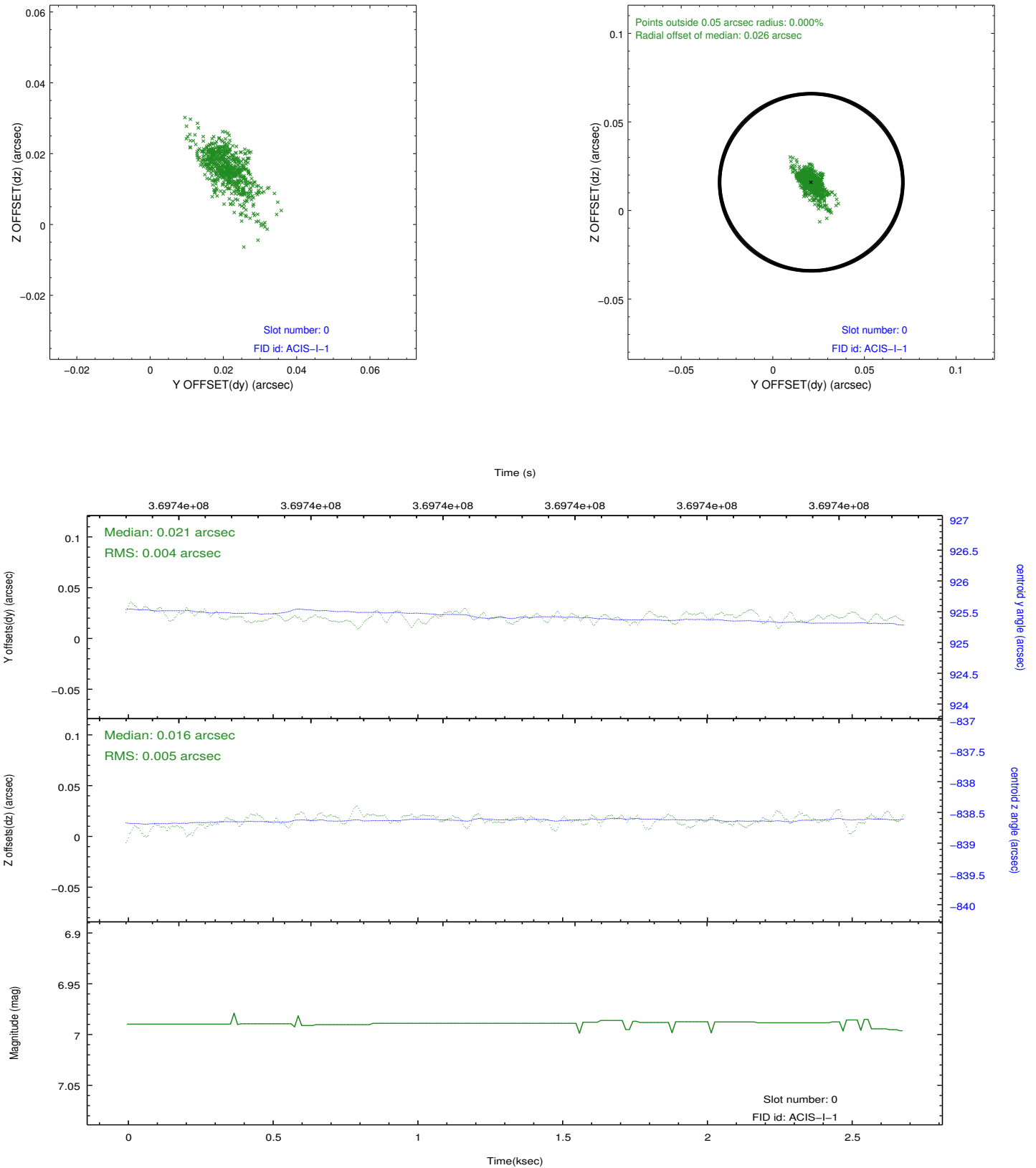


## 2.4.5 Slot 7

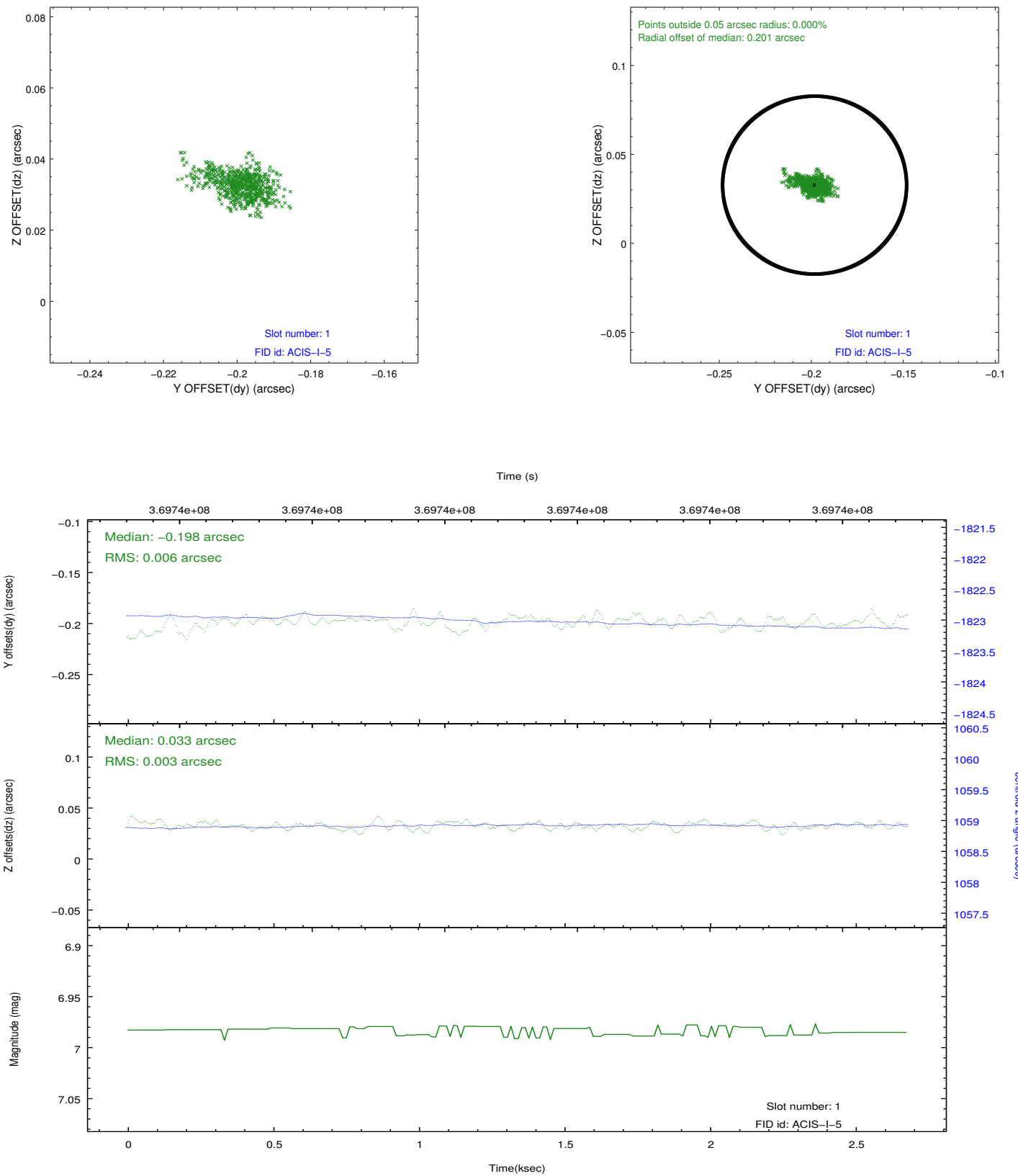


## 2.5 FID Slots

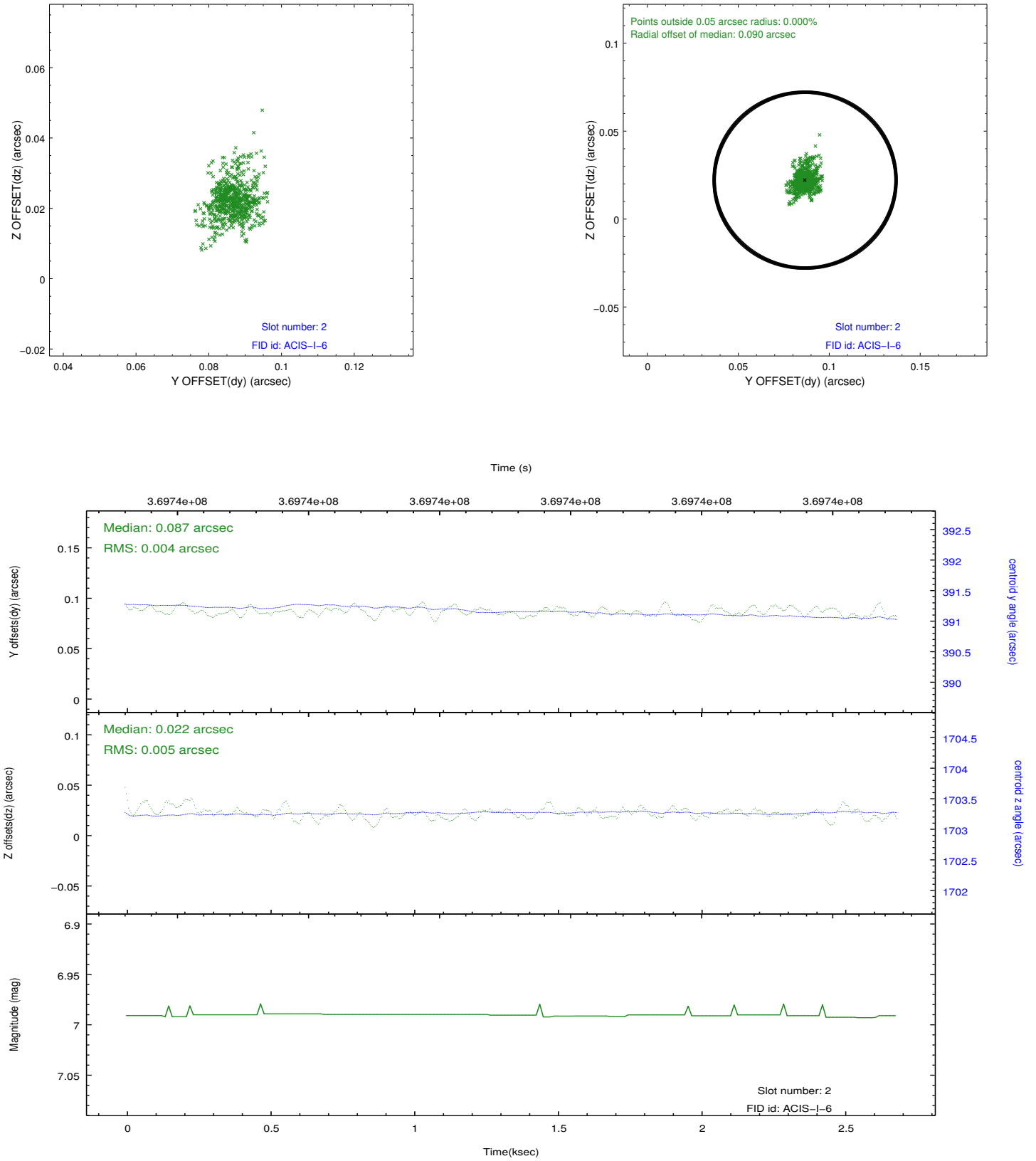
### 2.5.1 Slot 0



## 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)	2012.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.6784000205994

### **A.2 Comments**