

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11657 - L2 Version 2  
Chandra X-Ray Center

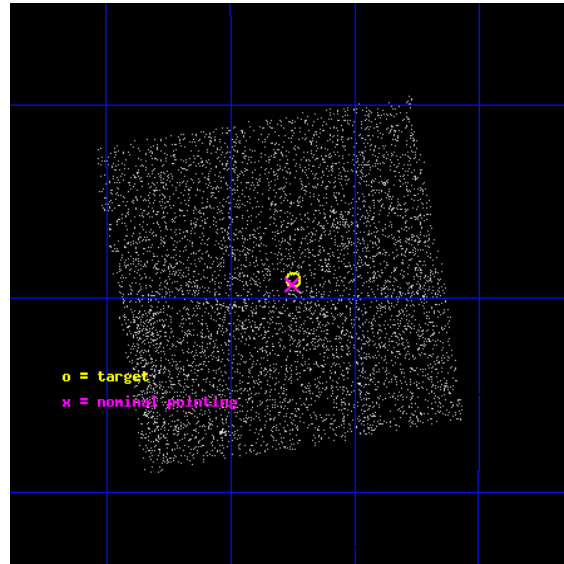
L2 Processing Date : Jun 30 2012

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# 1 Front

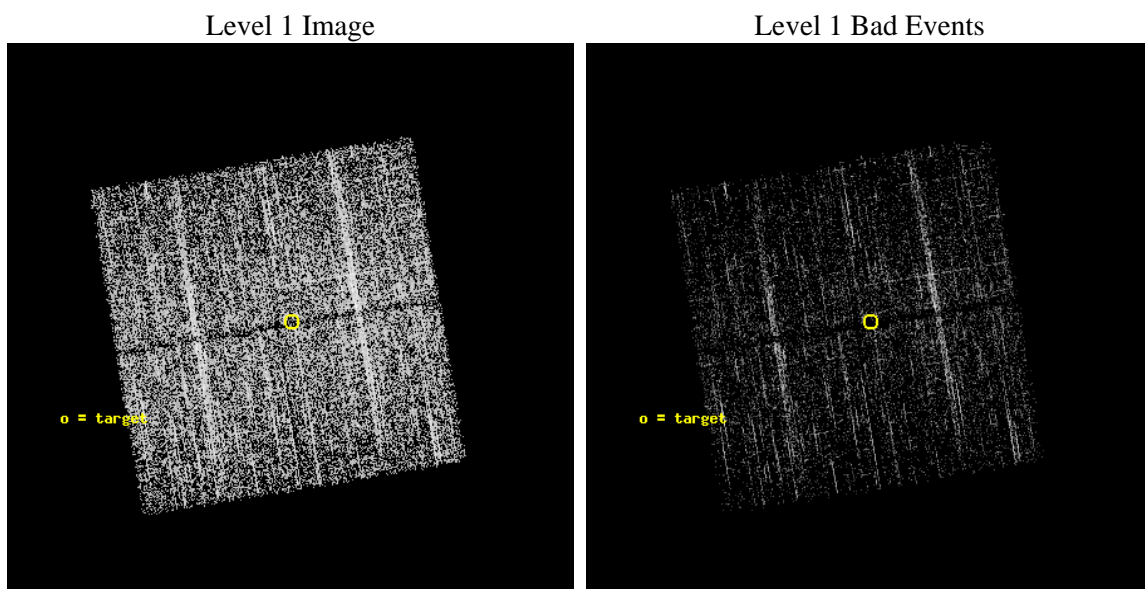
seq_num	702243	Sequence number
obs_id	11657	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_1671	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	335.937083	Observer's specified target RA [deg]
dec_targ	-29.984111	Observer's specified target Dec [deg]
ra_nom	335.93835249112	Nominal RA [deg]
dec_nom	-29.988459233011	Nominal Dec [deg]
roll_nom	80.501077246156	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2560.6000196934	Sum of GTIs [s]
livetime	2527.1438953498	Livetime [s]
ontime0	2560.6000196934	Sum of GTIs [s]
ontime1	2560.6000196934	Sum of GTIs [s]
ontime2	2560.6000196934	Sum of GTIs [s]
ontime3	2560.6000196934	Sum of GTIs [s]
l2events	6996	Number of level 2 events



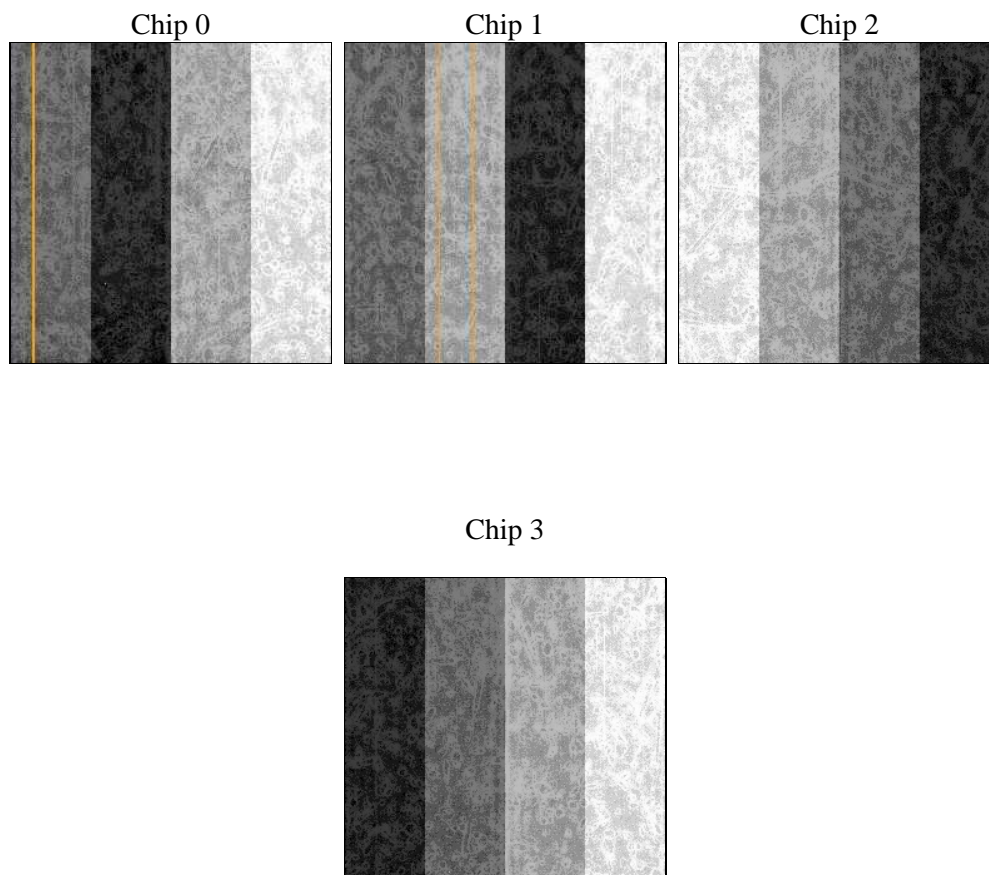
## 2 OBI

### 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	2560.6000196934	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime0	2560.6000196934	Sum of GTIs [s]
date	2012-06-30T13:34:32	Date and time of file creation	ontime1	2560.6000196934	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2560.6000196934	Sum of GTIs [s]
			ontime3	2560.6000196934	Sum of GTIs [s]
			l1events	77461	Number of level 1 events

### 2.1.4 Events

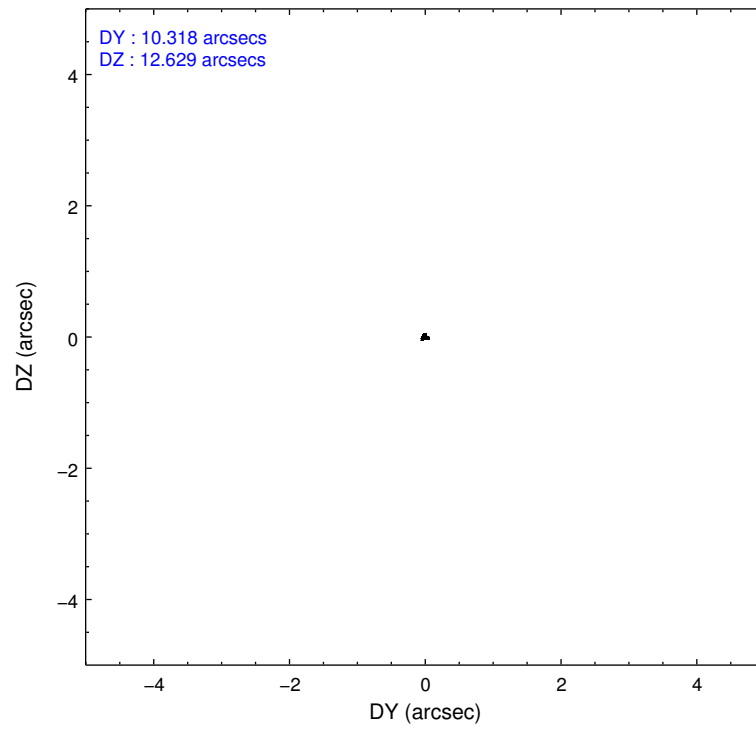
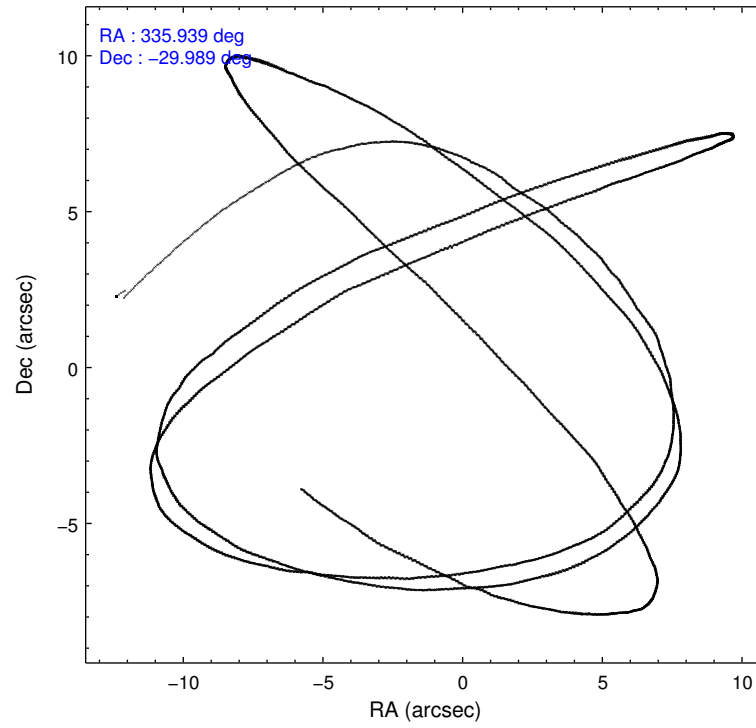
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	17519	19858	20637	19447
rejected events	15561	17497	18586	17451
rejected %	88%	88%	90%	89%

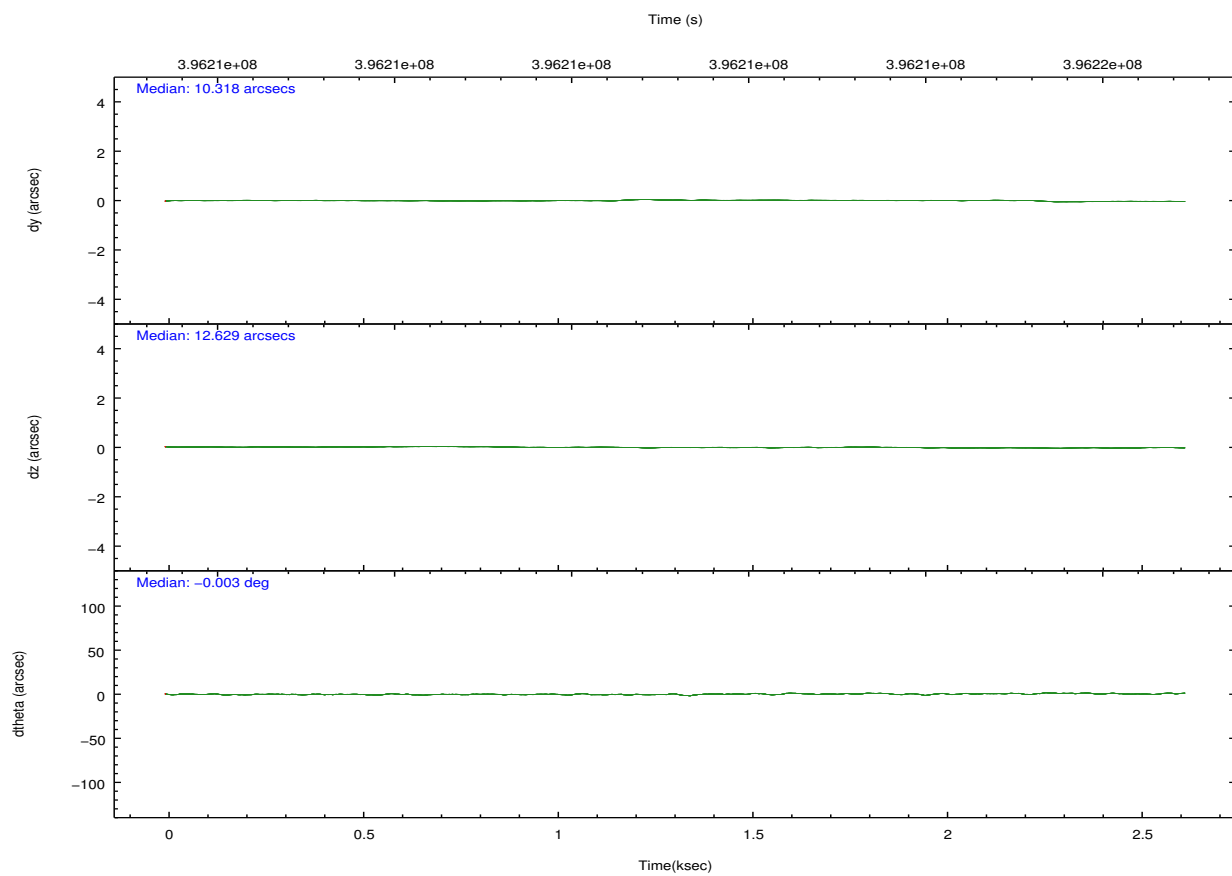
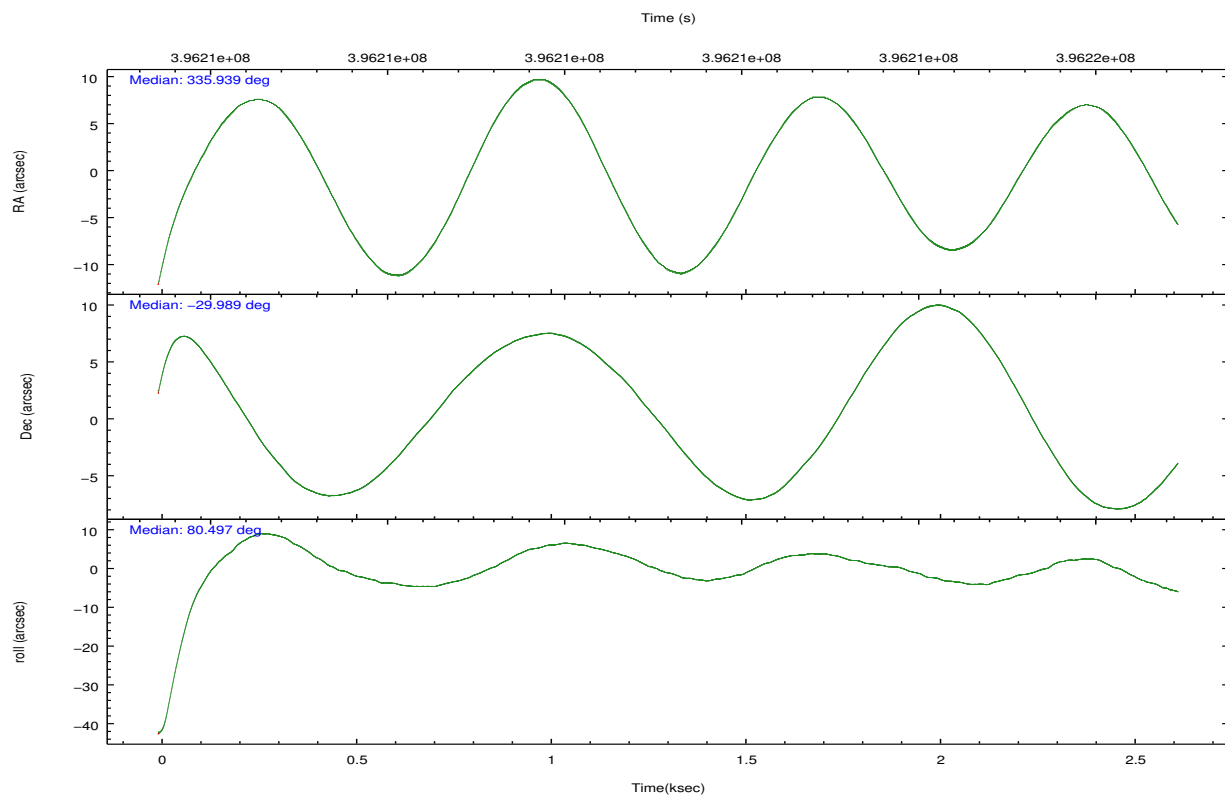
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	666	787	767	741
	3%	3%	3%	3%
grade 1 events	9	8	12	8
	0%	0%	0%	0%
grade 2 events	474	602	461	444
	2%	3%	2%	2%
grade 3 events	225	239	229	197
	1%	1%	1%	1%
grade 4 events	214	246	222	247
	1%	1%	1%	1%
grade 5 events	756	799	715	911
	4%	4%	3%	4%
grade 6 events	383	489	373	369
	2%	2%	1%	1%
grade 7 events	14792	16688	17858	16530
	84%	84%	86%	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	335.949524	335.9383524911195	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.014017	-29.98845923301145	Alternating exposures requested	N	N
[deg] Pointing Roll	80.298124	80.50107724615646	[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)	396212590.184000	396211189.91471			
Observation start date	2010-07-22T19:02:04	2010-07-22T18:39:49			
[s] Observation end time (MET)	396215090.184000	396215875.70245			
Observation end date	2010-07-22T19:43:44	2010-07-22T19:57:55			
Read mode	TIMED	TIMED			

## 2.3 Aspect





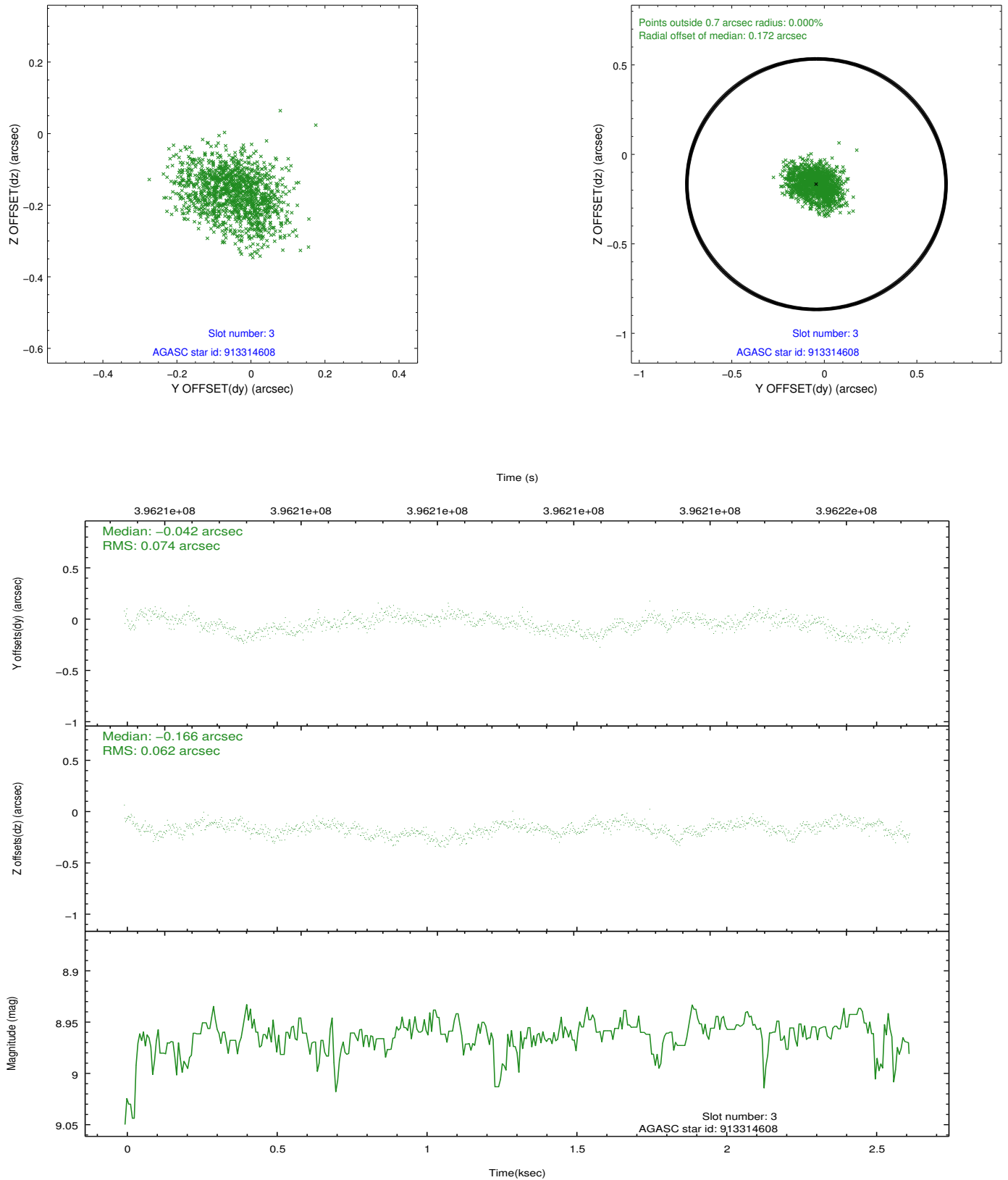
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.08	640	0.013	-0.036	0.008	0.013	0.000000	0.000000	929.30	-836.19
1	FID	ACIS-I-4	7.00	640	0.111	0.043	0.007	0.012	0.000000	0.000000	2150.79	1062.47
2	FID	ACIS-I-5	7.06	640	-0.224	0.065	0.007	0.012	0.000000	0.000000	-1815.79	1063.10
3	GUIDE	913314608	8.96	1276	-0.042	-0.166	0.104	0.164	335.885858	-29.694278	1101.38	390.75
4	GUIDE	913319984	9.45	1277	-0.333	0.314	0.108	0.176	336.672474	-29.705461	1470.29	-2040.98
5	GUIDE	982523760	9.40	1279	0.125	-0.134	0.096	0.149	335.695882	-30.565092	-2086.93	439.24
6	GUIDE	982648720	9.74	1278	0.233	0.182	0.129	0.199	336.252192	-30.720827	-2352.45	-1352.14
7	GUIDE	982520656	10.36	1276	0.016	-0.197	0.188	0.309	335.118871	-30.396268	-1801.86	2308.07

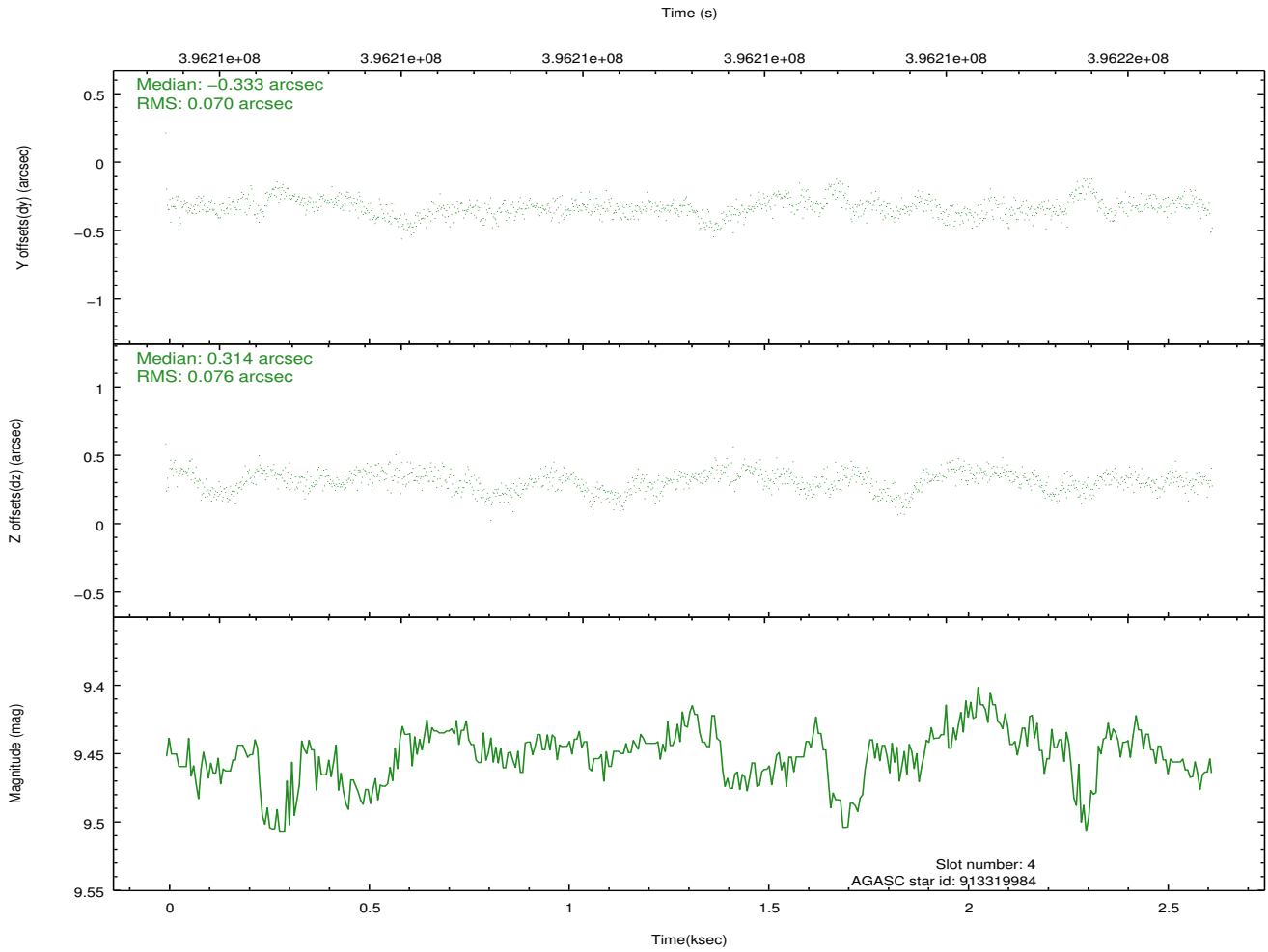
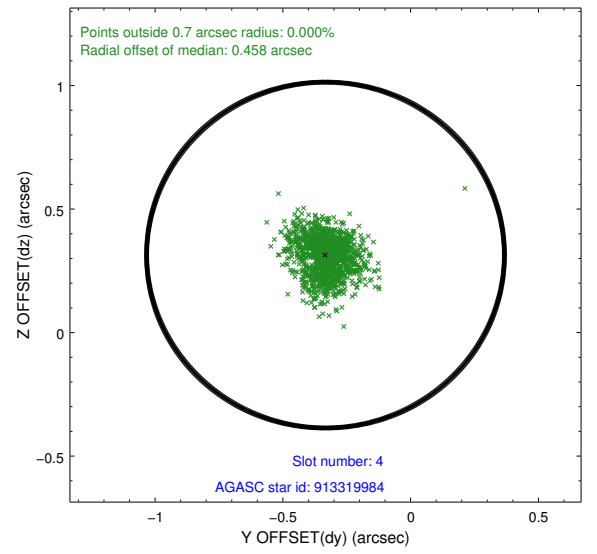
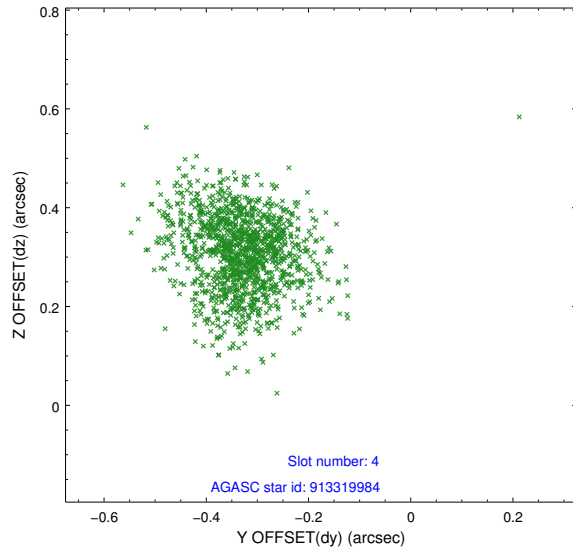


## 2.4 Star Slots

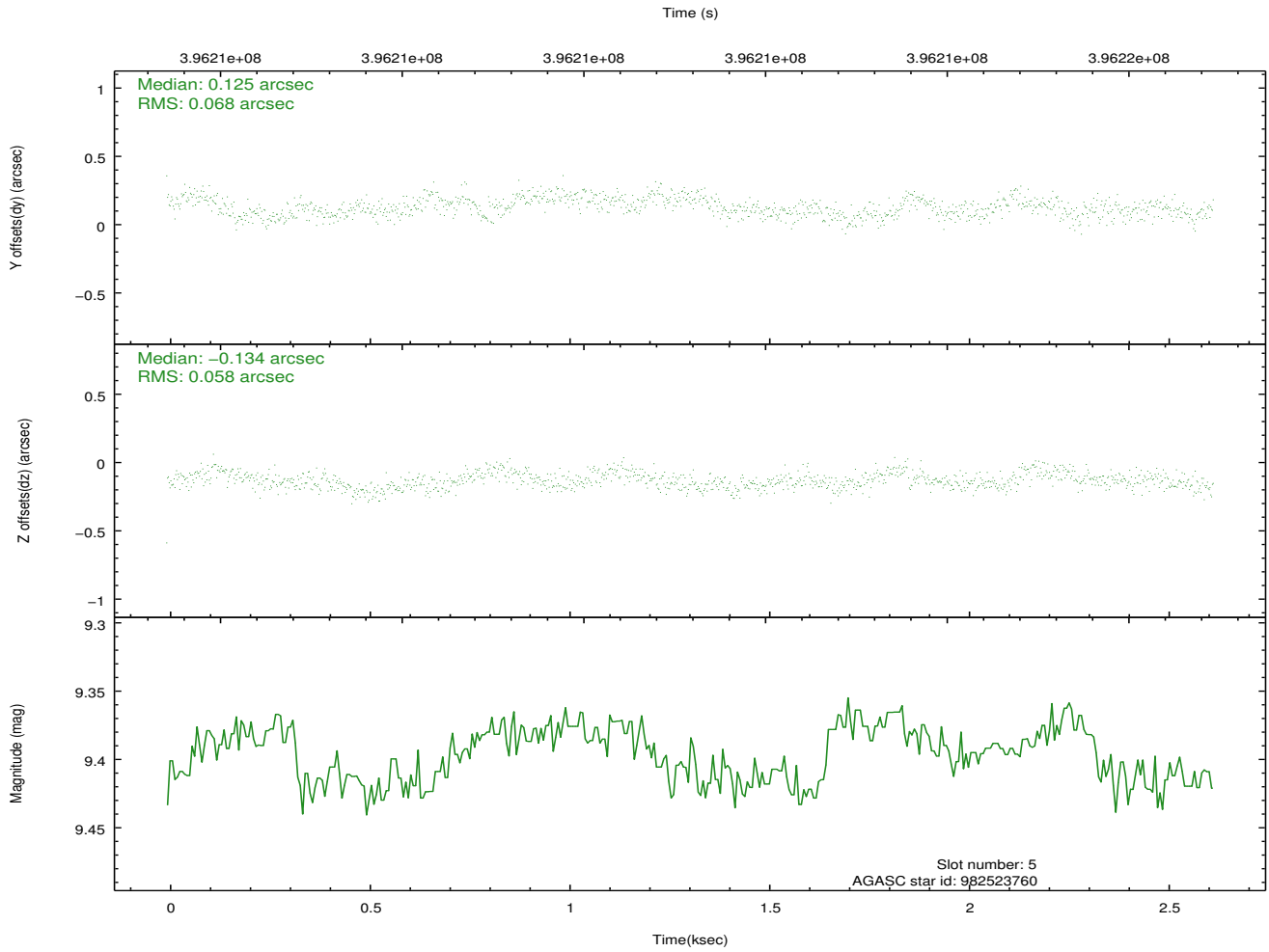
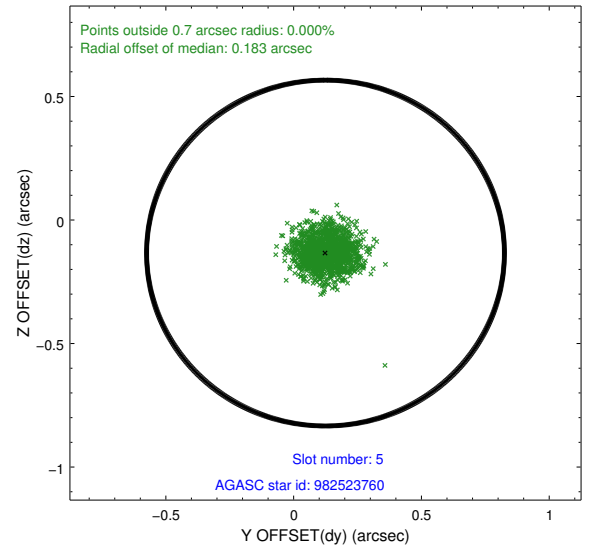
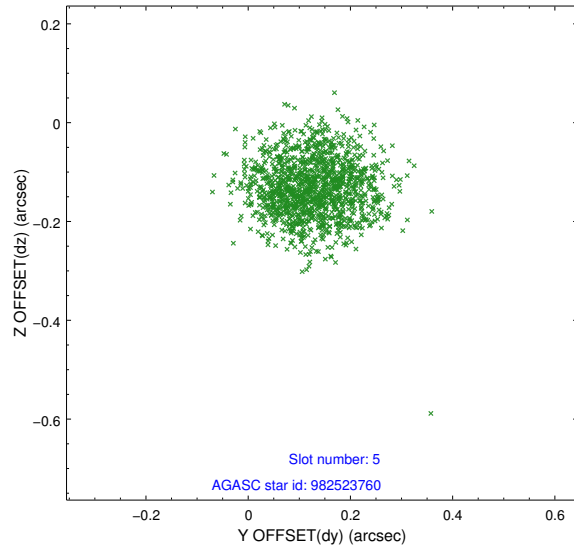
### 2.4.1 Slot 3



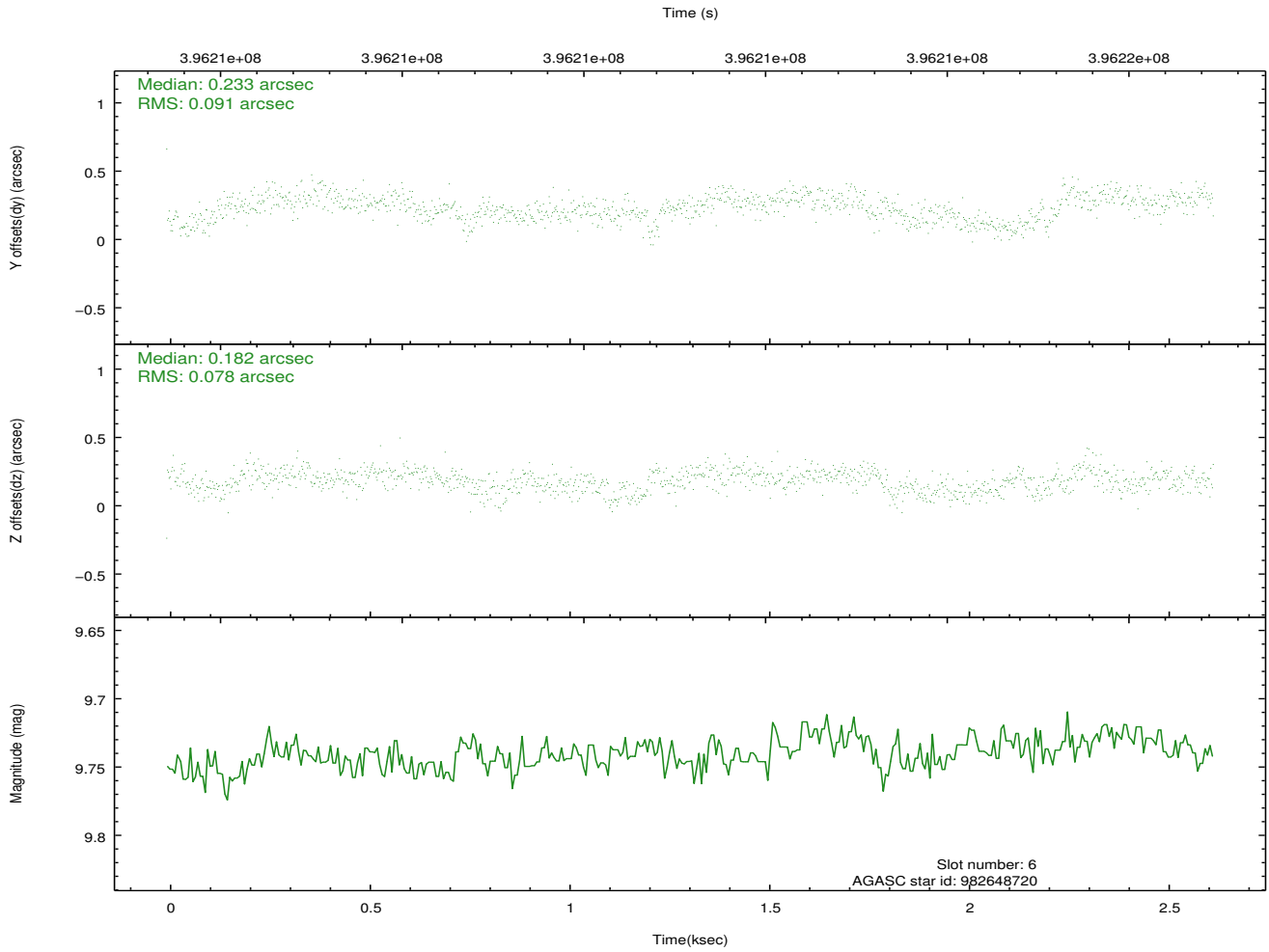
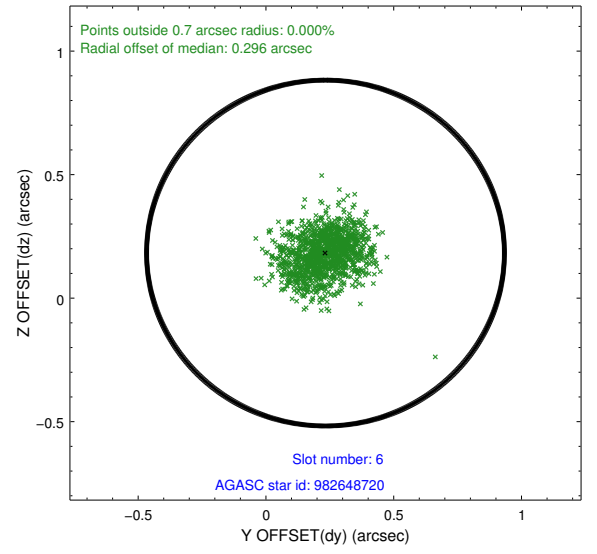
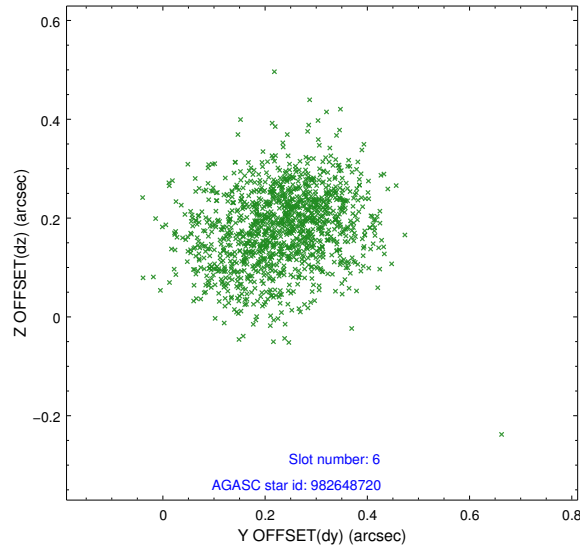
## 2.4.2 Slot 4



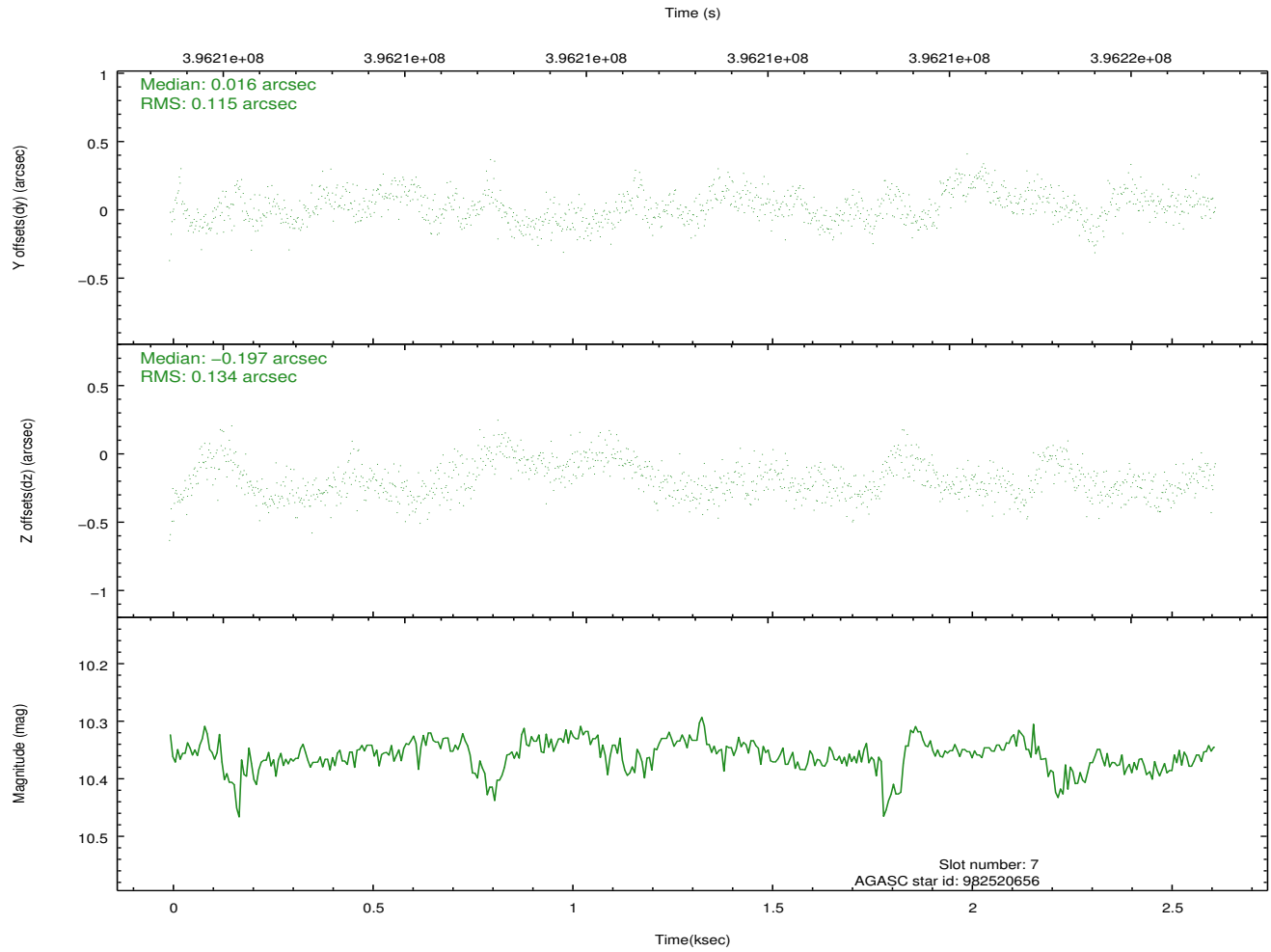
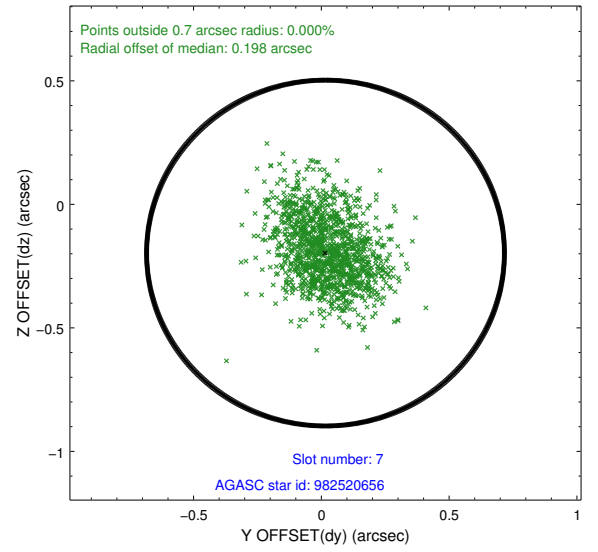
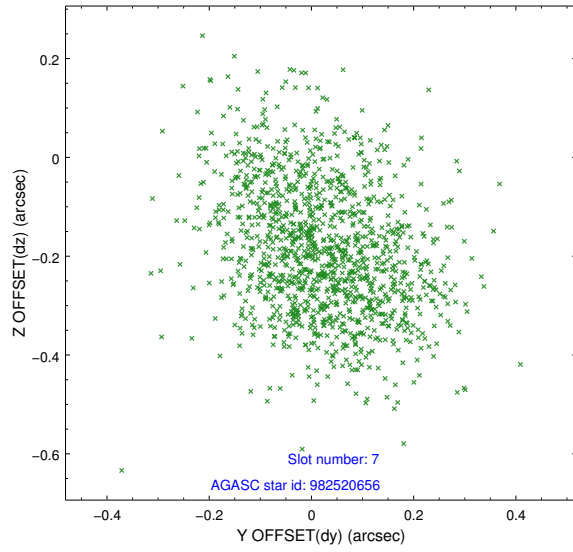
### 2.4.3 Slot 5



## 2.4.4 Slot 6

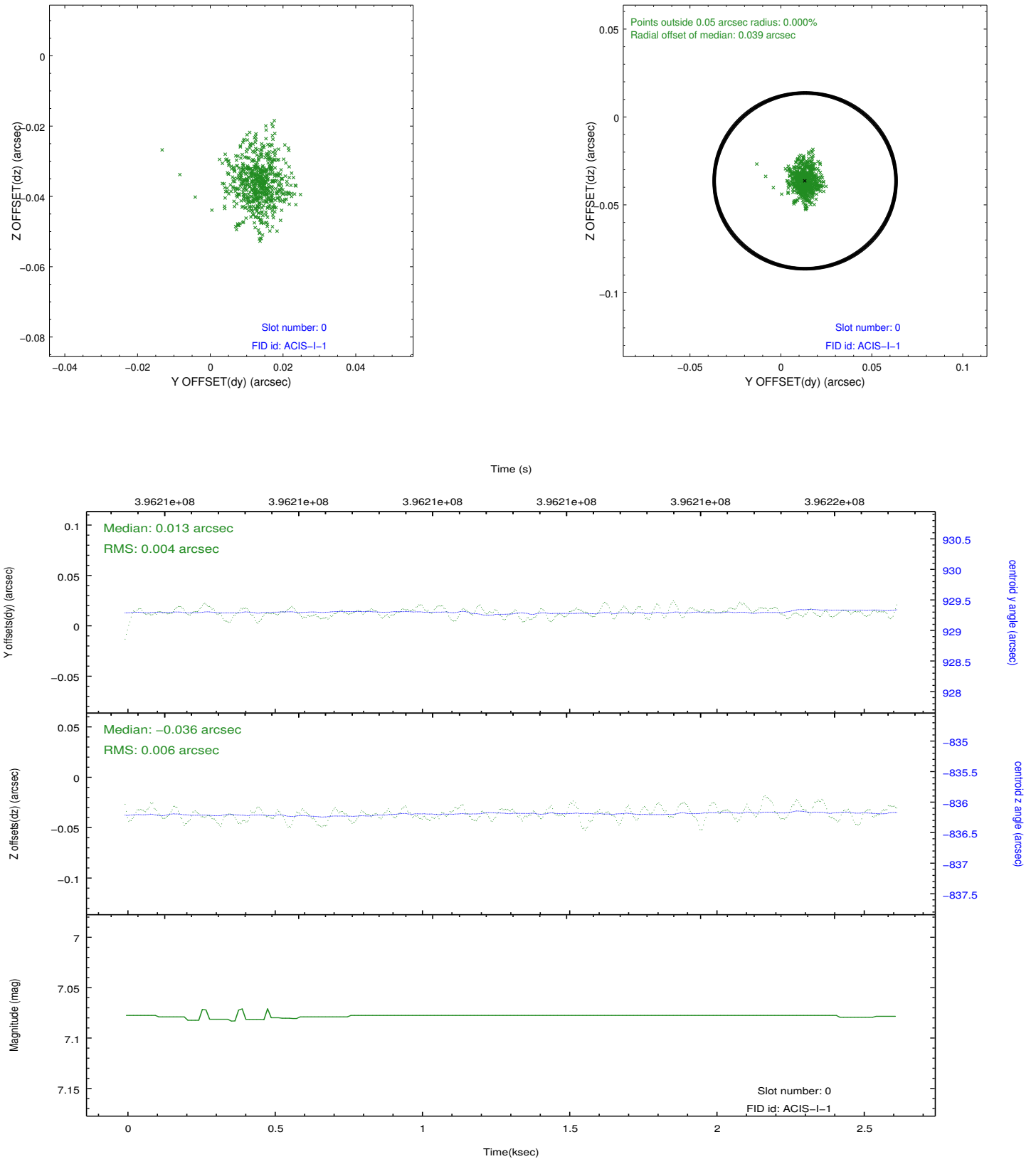


## 2.4.5 Slot 7

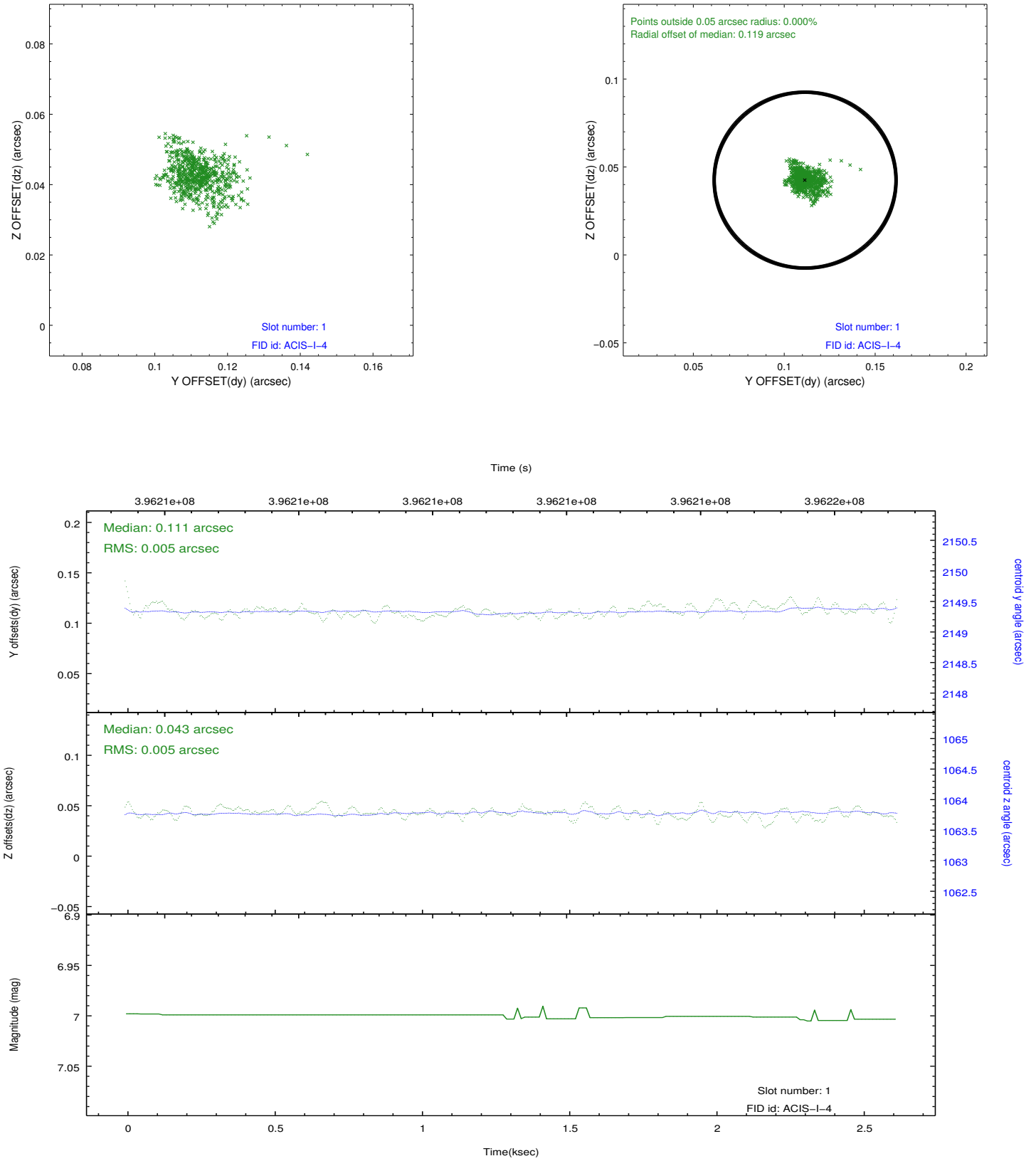


## 2.5 FID Slots

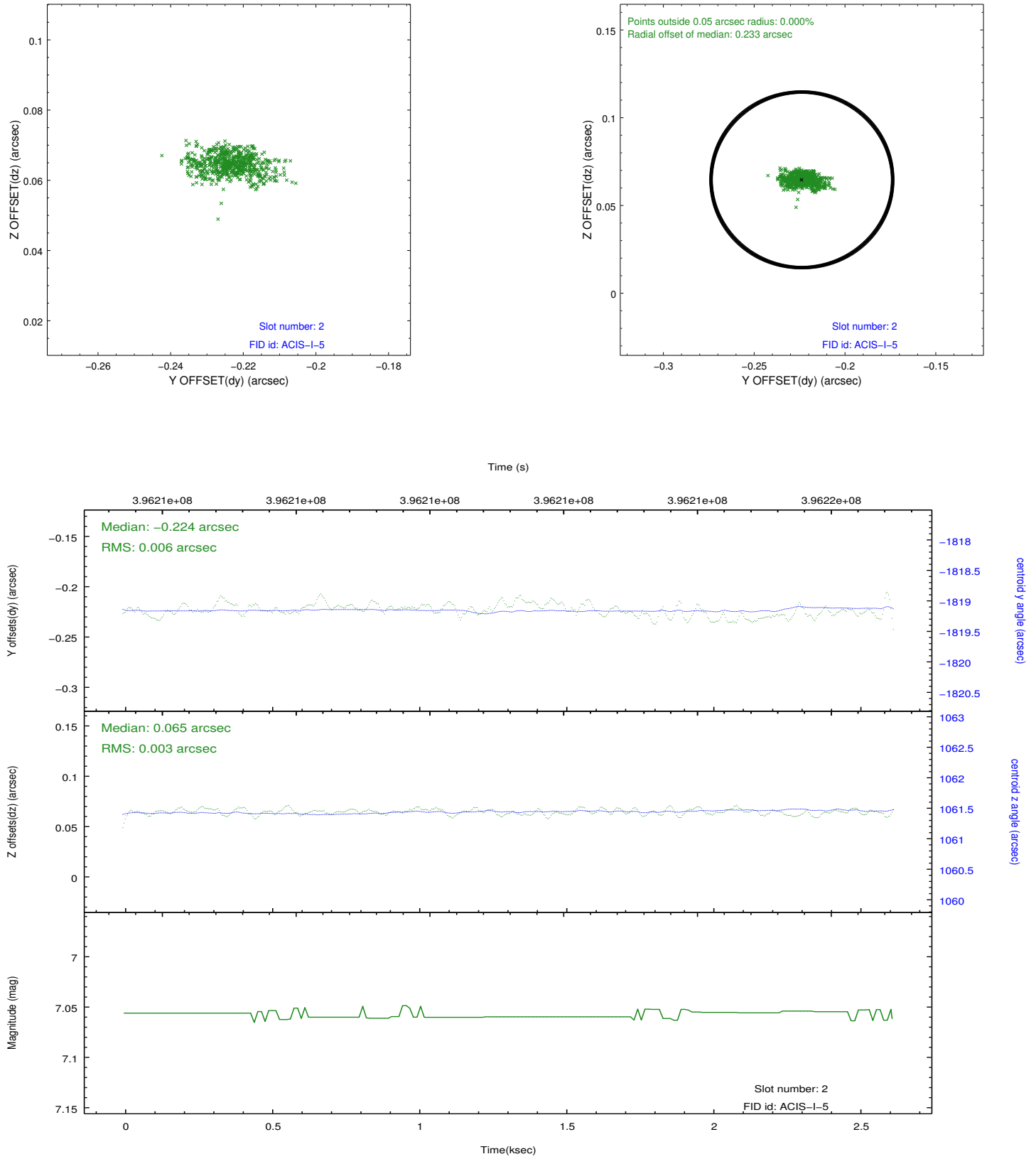
### 2.5.1 Slot 0



## 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)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5606000196934

### **A.2 Comments**