

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 6186 - L2 Version 002  
Chandra X-Ray Center

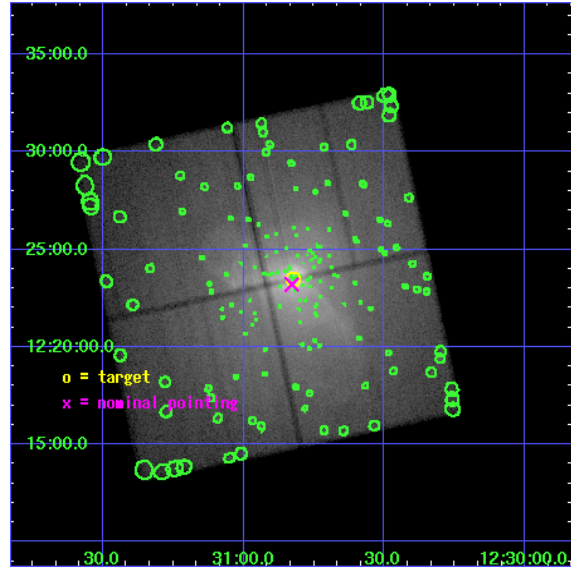
L2 Processing Date: Feb 19 2006

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# 1 Front

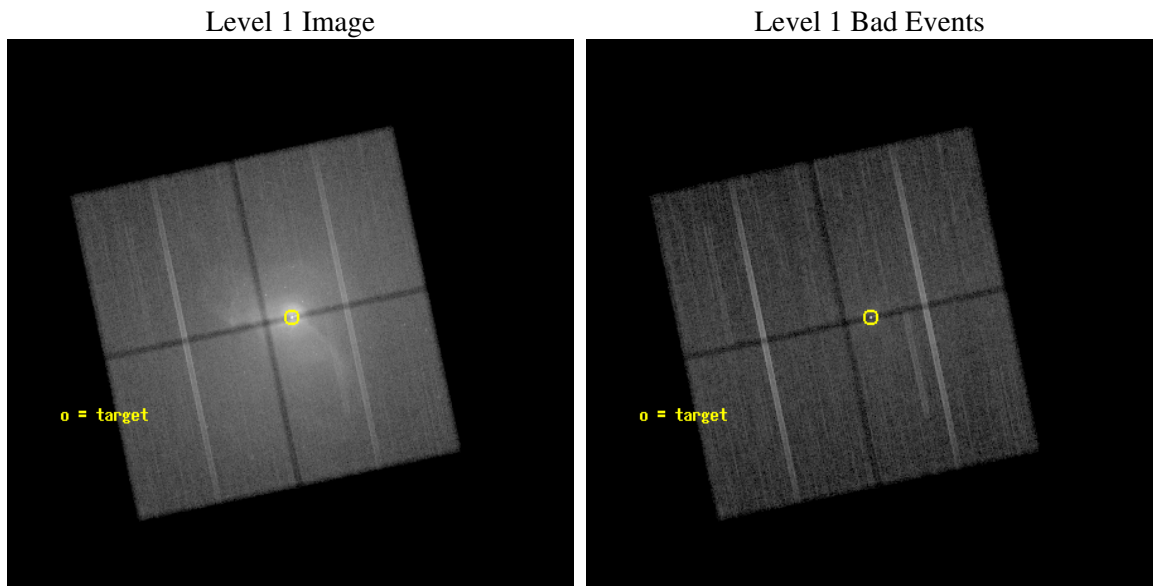
seq_num	800538
obs_id	6186
title	The History of AGN Activity in M87 and the Interaction of Nuclear Outbursts with the Surrounding Atmosphere
observer	Dr. William Forman
object	M87
dtcycle	0
cycle	P
ra_targ	187.70625
dec_targ	12.391111
ra_nom	187.70716124575
dec_nom	12.386752087108
roll_nom	77.958232252466
revision	2
ontime	52234.958899409
livetime	51552.470706571
ontime0	52225.535968542
ontime1	52219.253988147
ontime2	52231.818008691
ontime3	52234.958899409
l2events	1850026



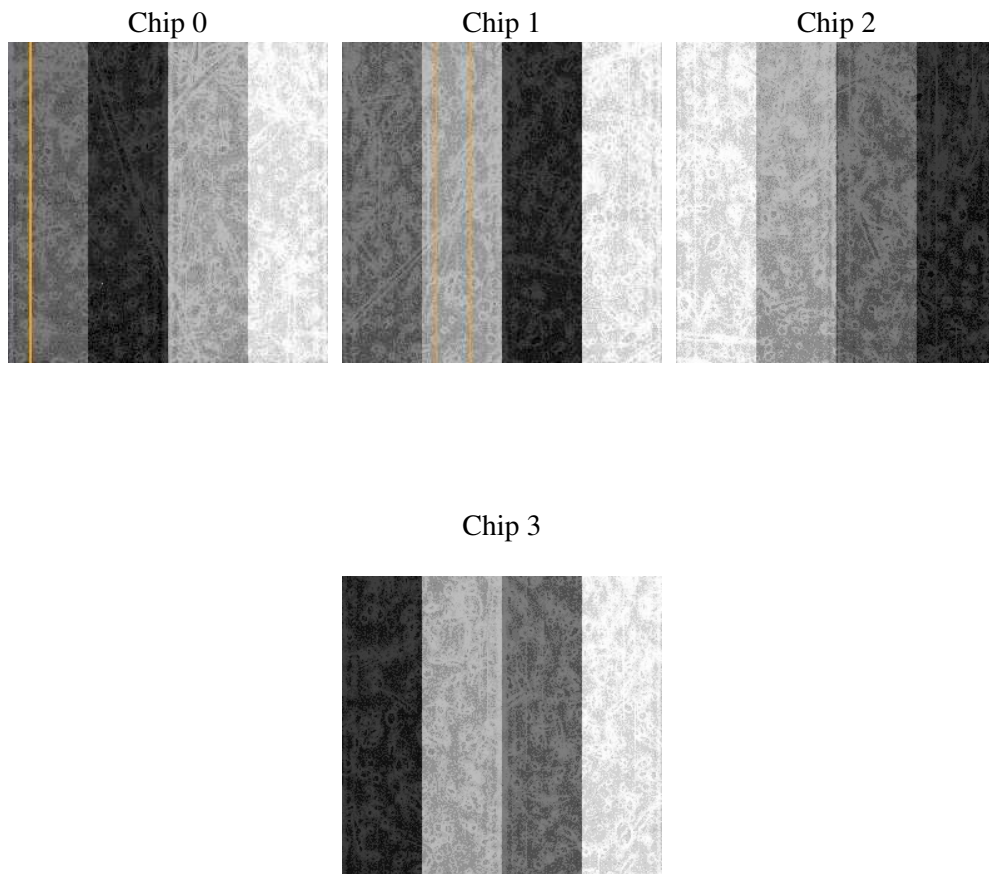
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7
caldbver	3.2.1
date	2006-02-19T23:17:58
revision	2

sched_exp_time	52111.216000
ontime	52602.4957591
ontime0	52593.072828233
ontime1	52586.79082793
ontime2	52599.354868382
ontime3	52602.4957591
l1events	3134959

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	605452	632627	946218	950662
rejected events	272288	273687	312638	301861
rejected %	44%	43%	33%	31%

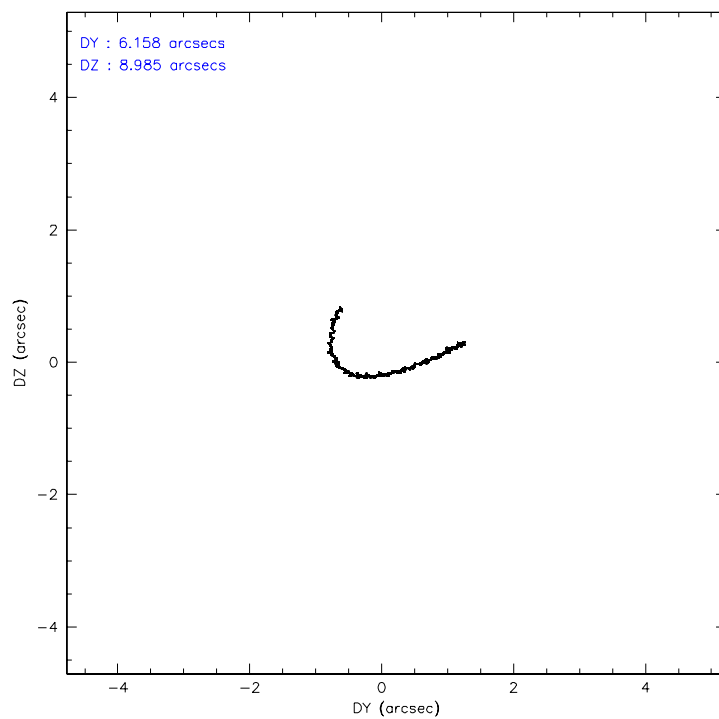
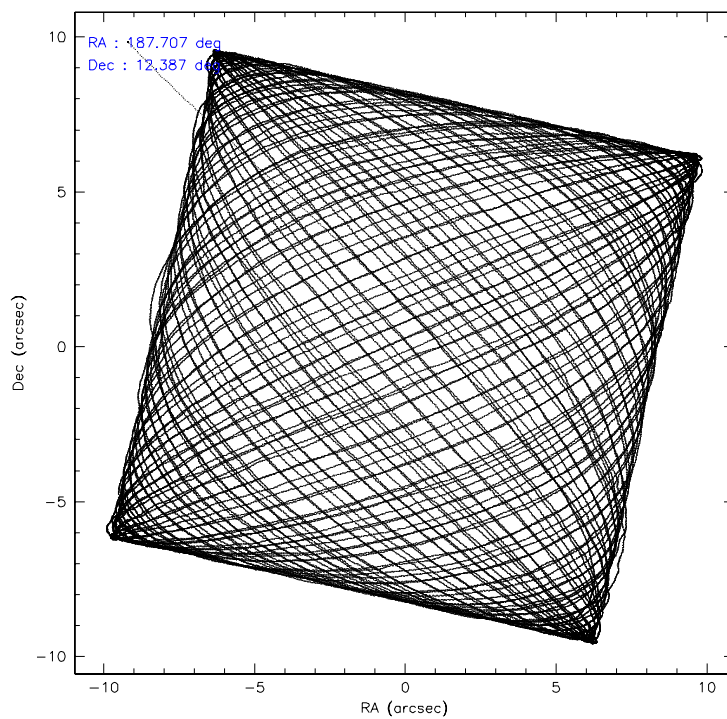
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	265757	285239	524985	539088
	43%	45%	55%	56%
grade 1 events	1299	1256	3597	3223
	0%	0%	0%	0%
grade 2 events	34757	37901	59243	59874
	5%	5%	6%	6%
grade 3 events	11532	12437	18421	18956
	1%	1%	1%	1%
grade 4 events	11212	12329	18542	18788
	1%	1%	1%	1%
grade 5 events	12140	13128	13404	14729
	2%	2%	1%	1%
grade 6 events	11332	12714	15051	14964
	1%	2%	1%	1%
grade 7 events	257423	257623	292975	281040
	42%	40%	30%	29%

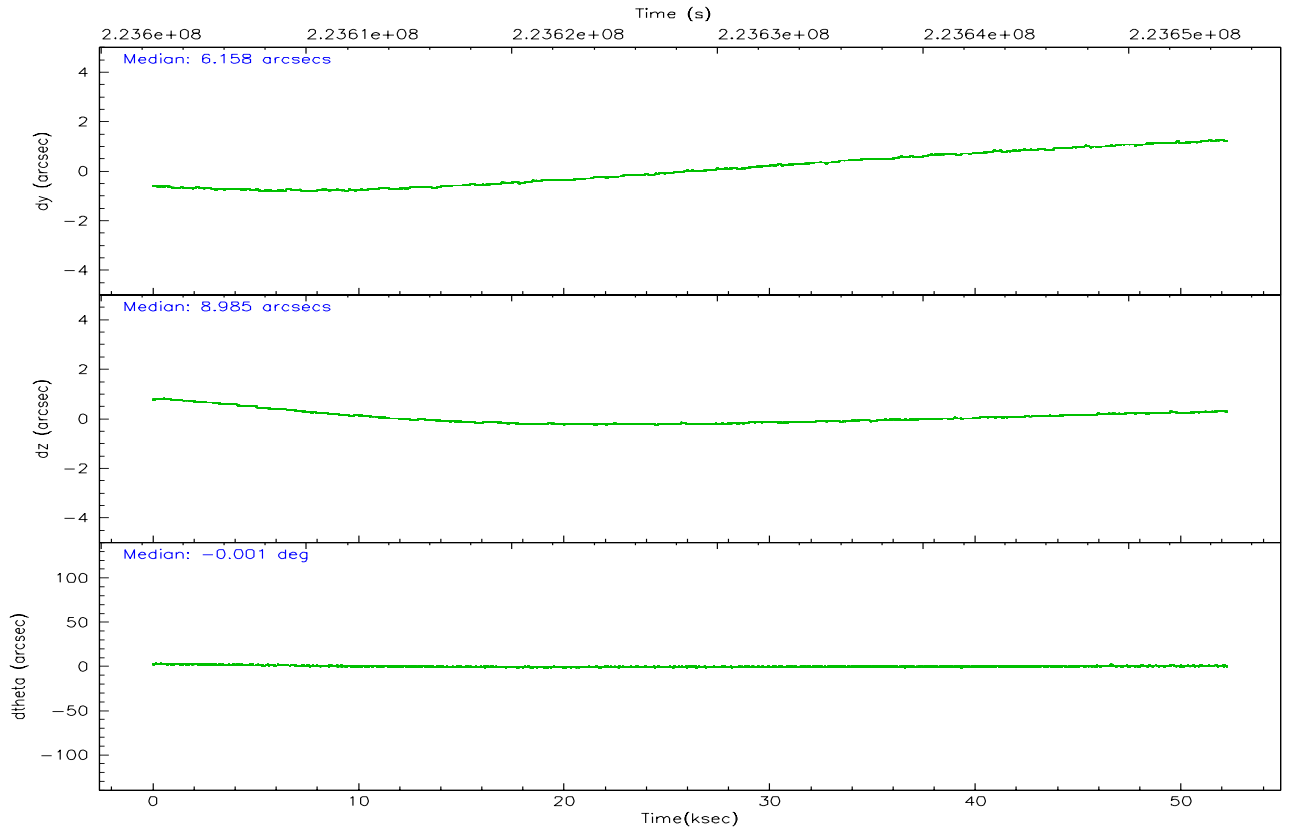
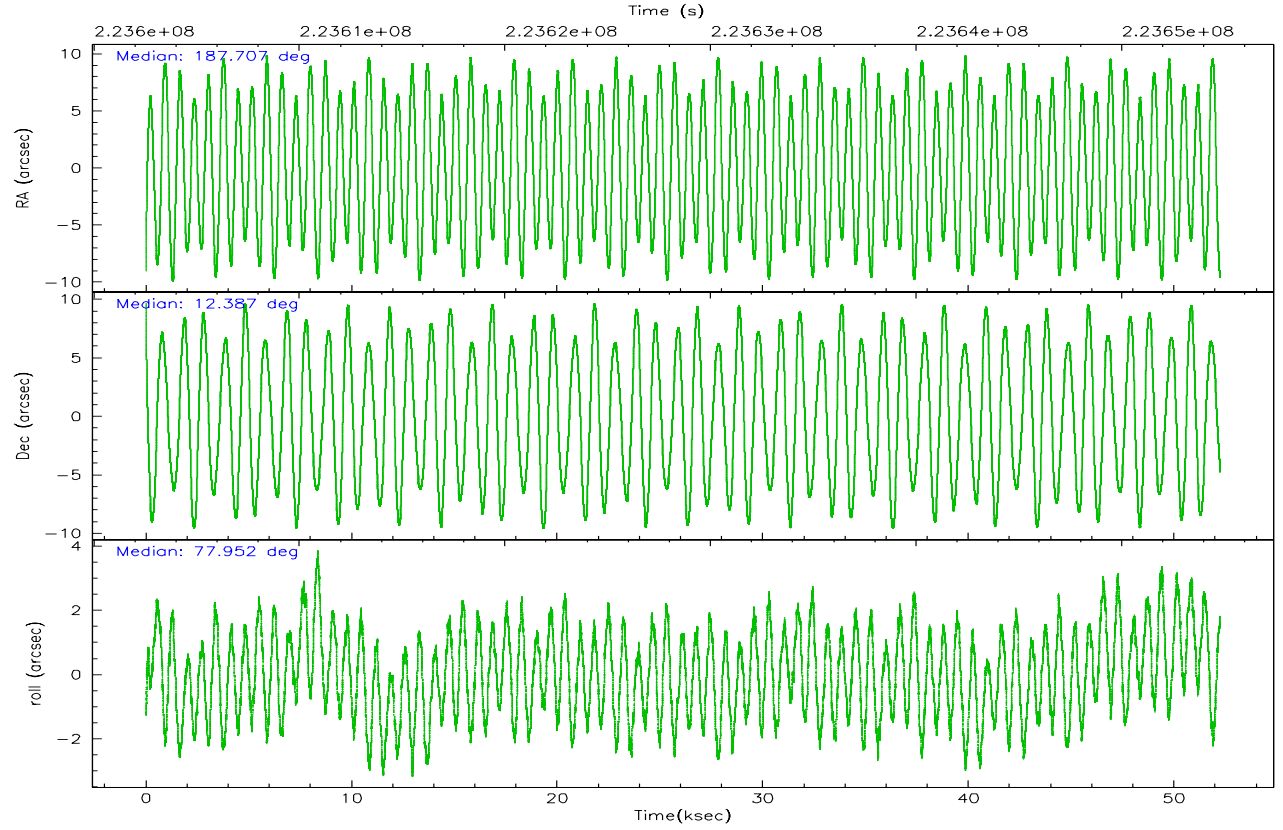


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	187.715912	187.7071612457531	Alternating exposures requested	N	N
Pointing Dec	12.360752	12.3867520871084	Primary exposure time	0.000000	3.1
Pointing Roll	77.747671	77.95823225246573			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-231.592463	-231.5960967419932			
SIM translation stage offset (mm)	-2	-1.996356260936523			
Observation start time	223602682.184000	223601538.00778			
Observation start date	2005-01-31T23:50:18	2005-01-31T23:32:18			
Observation end time	223654794.184000	223655030.19769			
Observation end date	2005-02-01T14:18:50	2005-02-01T14:23:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect



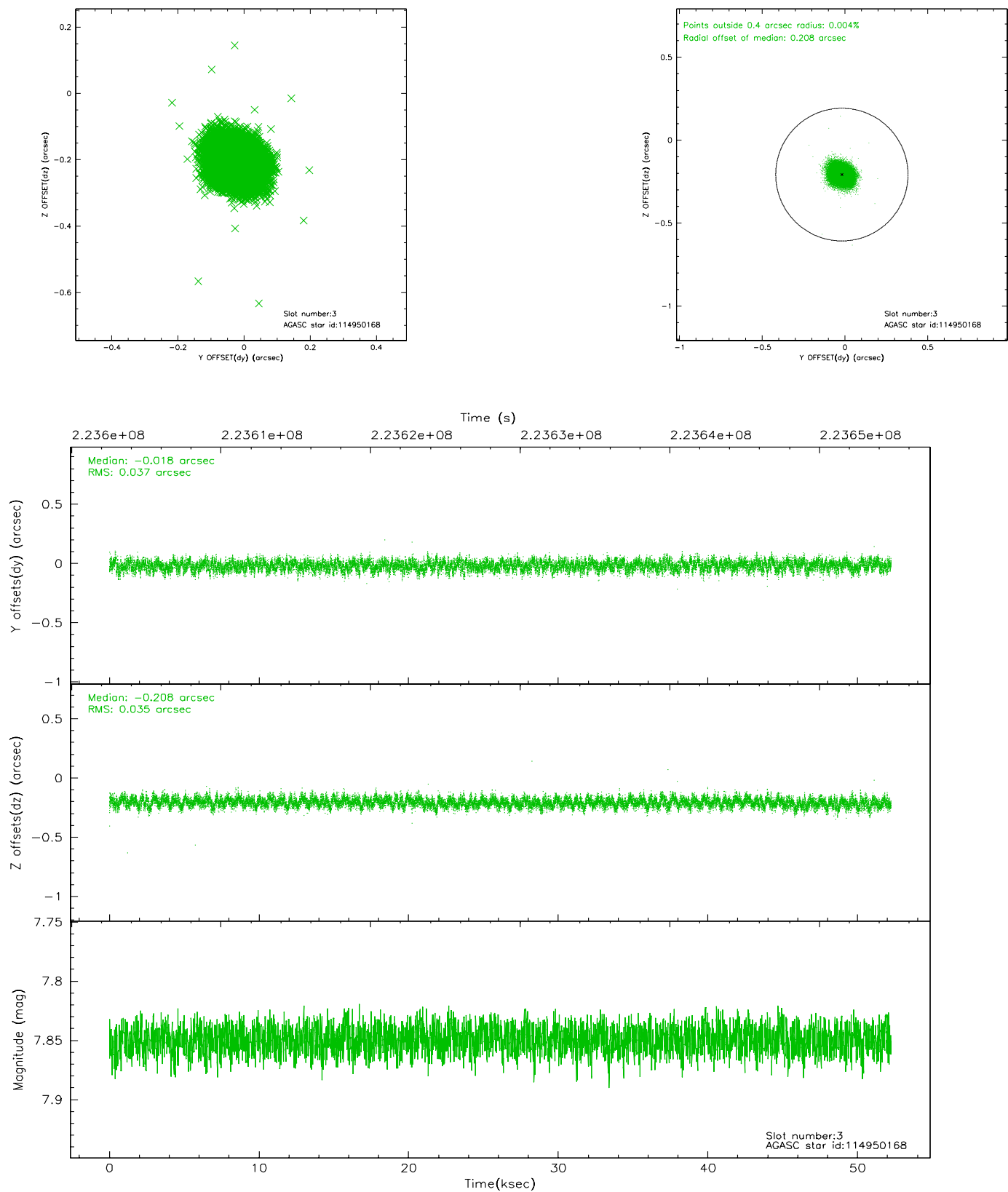


# Slot Statistics

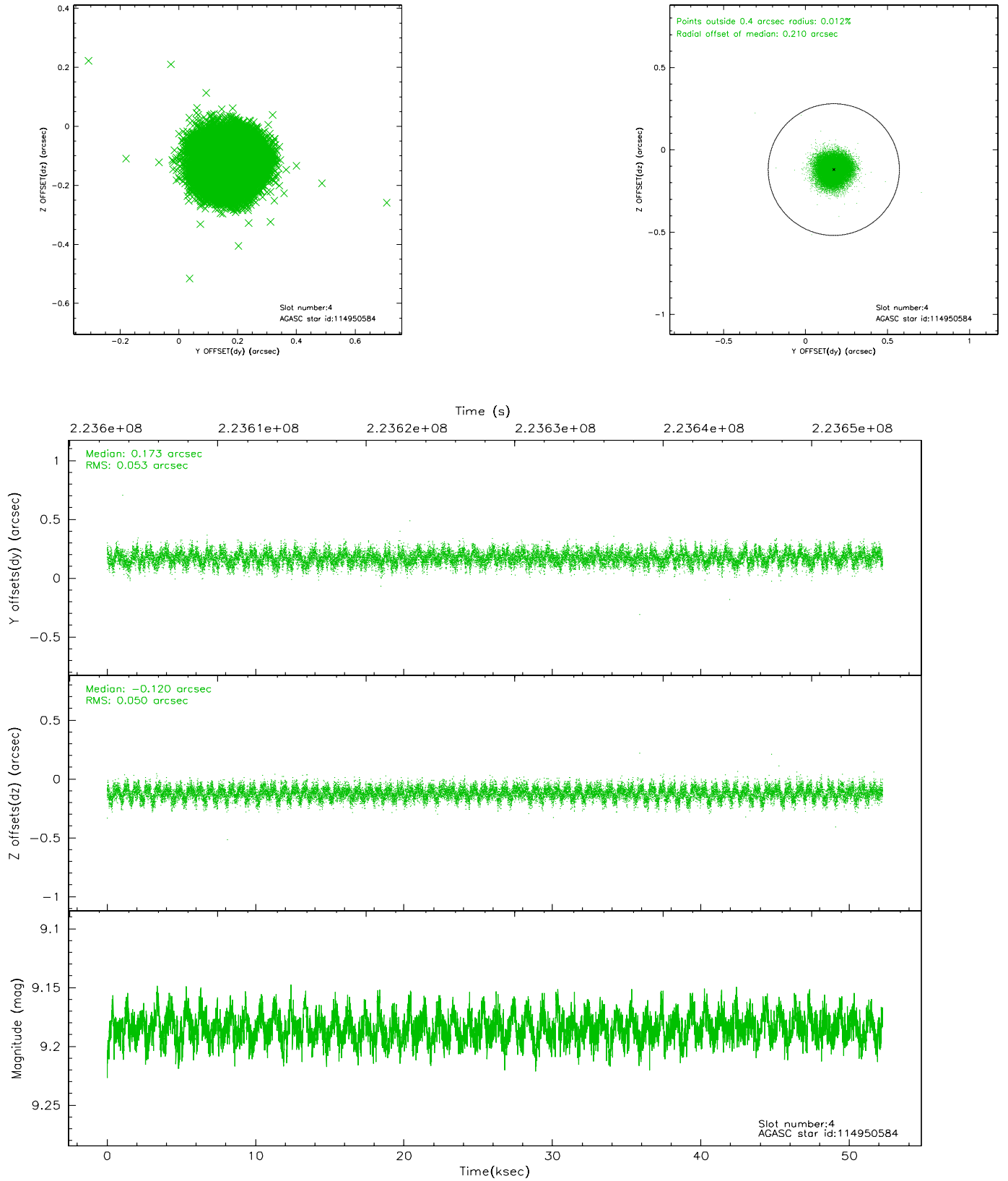
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	12742	-0.007	0.035	0.016	0.035	0.000000	0.000000	933.43	-873.38
1	FID	ACIS-I-5	7.23	12743	-0.163	0.016	0.017	0.026	0.000000	0.000000	-1814.83	1024.14
2	FID	ACIS-I-6	7.25	12741	0.079	0.019	0.012	0.018	0.000000	0.000000	399.11	1668.59
3	GUIDE	114950168	7.85	25483	-0.018	-0.208	0.054	0.088	187.143398	12.117441	-1281.81	1783.87
4	GUIDE	114950584	9.18	25467	0.173	-0.120	0.078	0.124	187.487323	11.827248	-2047.41	379.93
5	GUIDE	114952824	8.56	25478	-0.150	-0.113	0.063	0.101	187.703904	12.486727	433.96	138.06
6	GUIDE	114955056	8.33	25477	0.014	0.325	0.063	0.103	187.914001	12.127854	-670.96	-858.45
7	GUIDE	114955568	7.51	25484	-0.015	0.117	0.060	0.100	187.061916	11.826551	-2365.91	1844.83

## 2.4 Star Slots

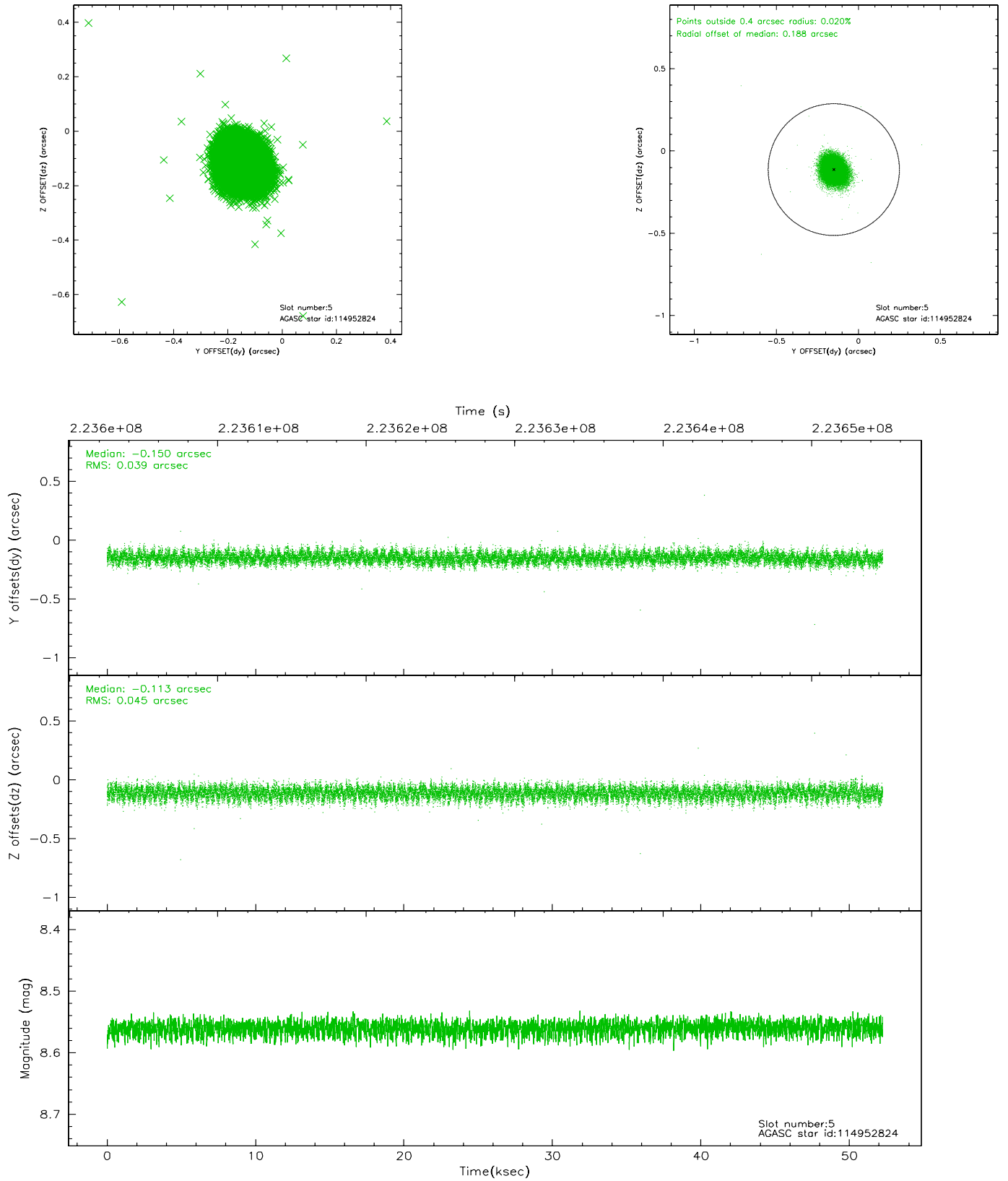
### 2.4.1 Slot 3



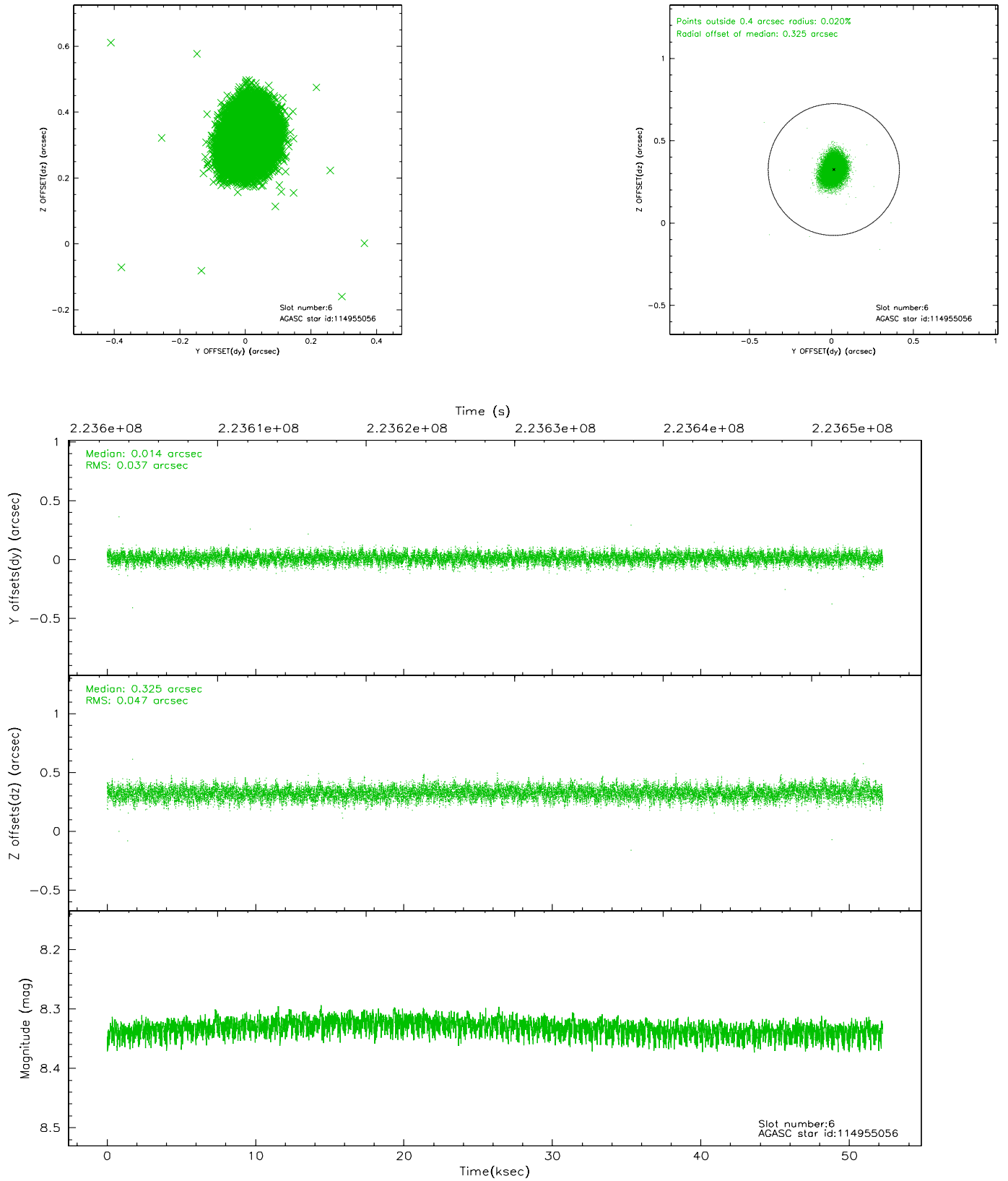
## 2.4.2 Slot 4



### 2.4.3 Slot 5

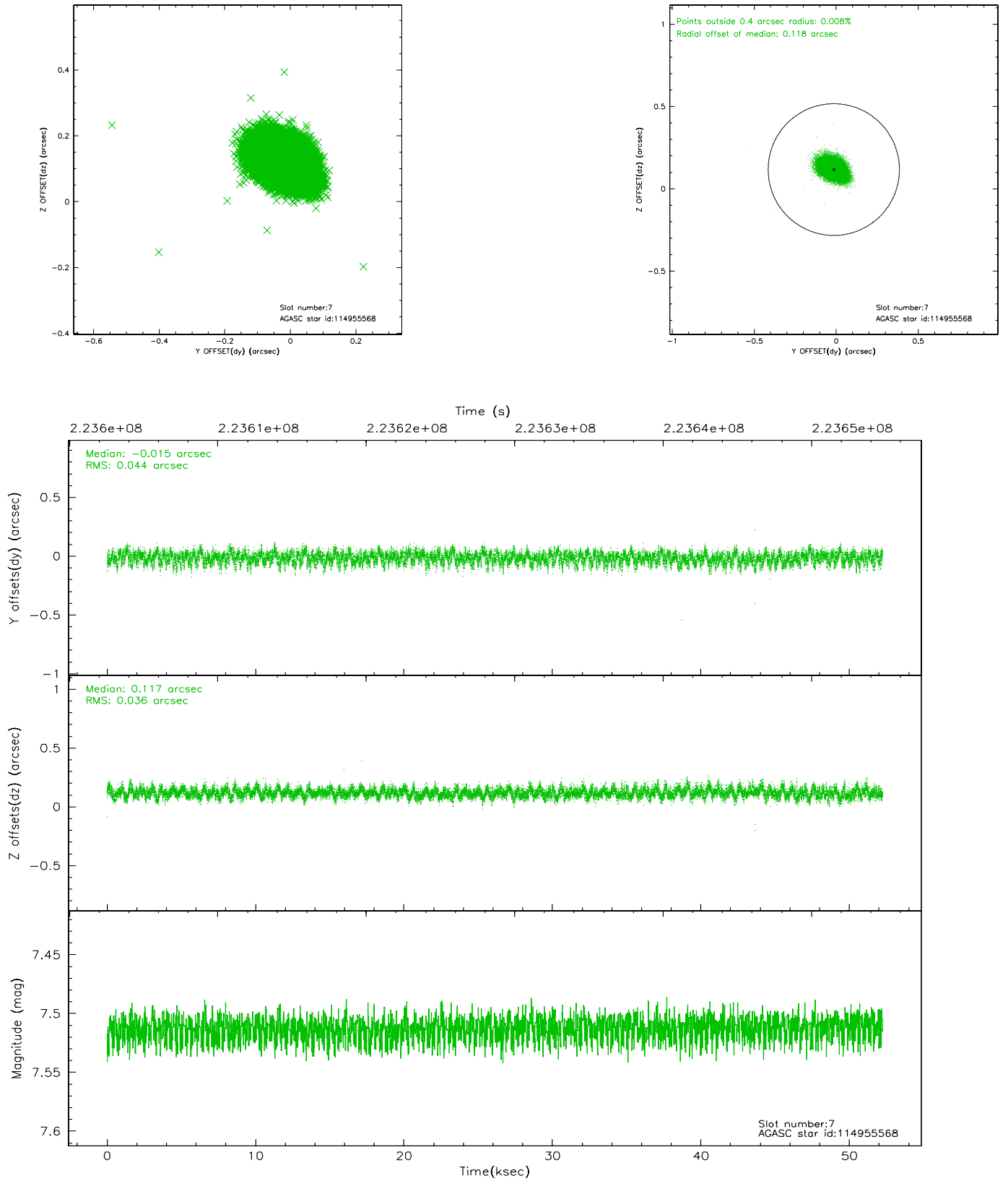


## 2.4.4 Slot 6



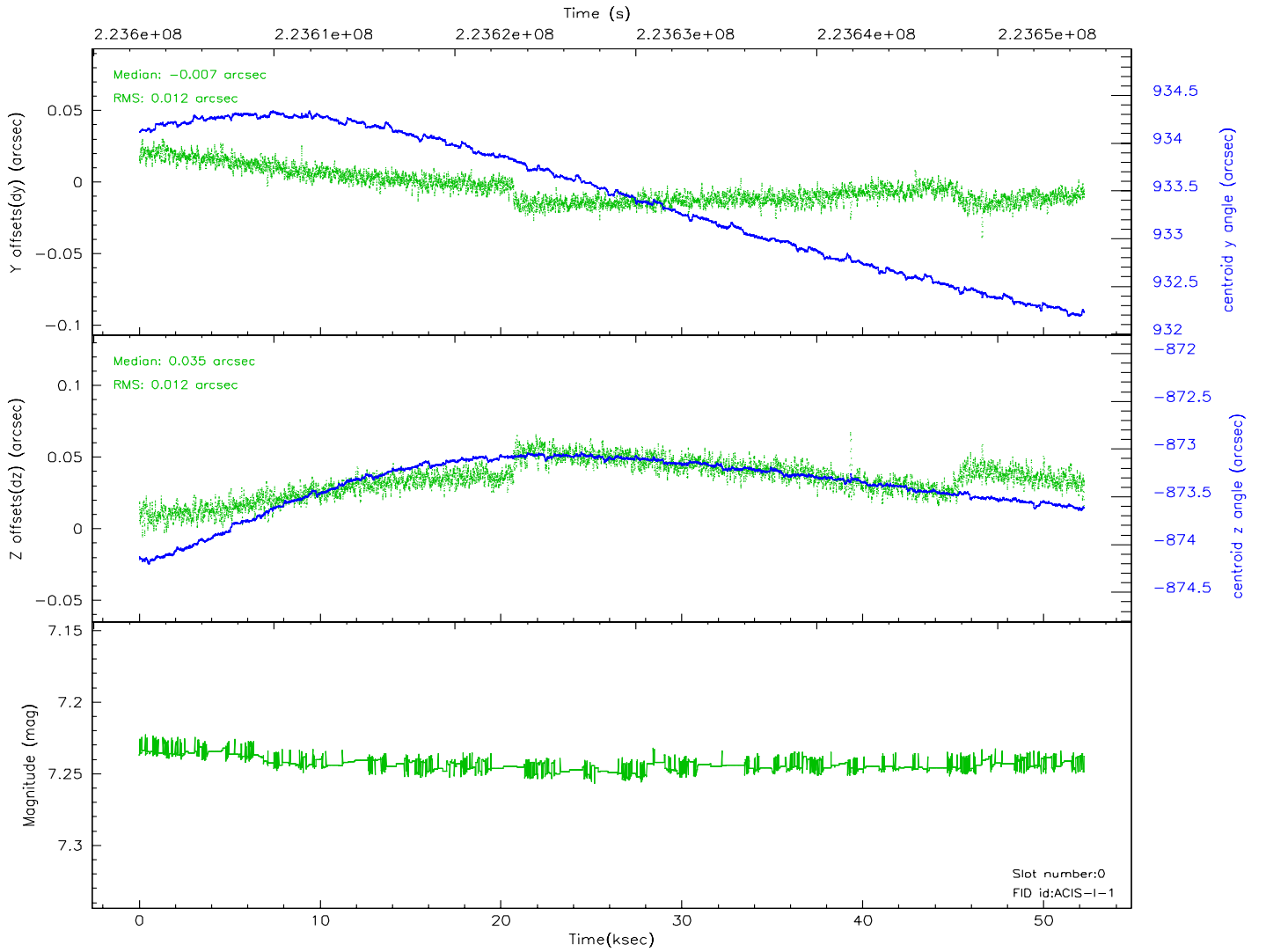
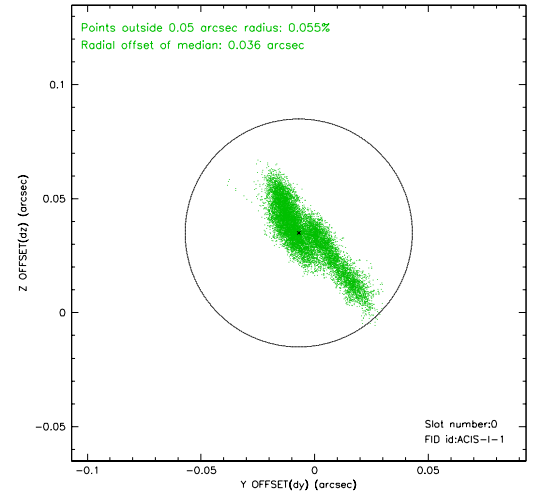
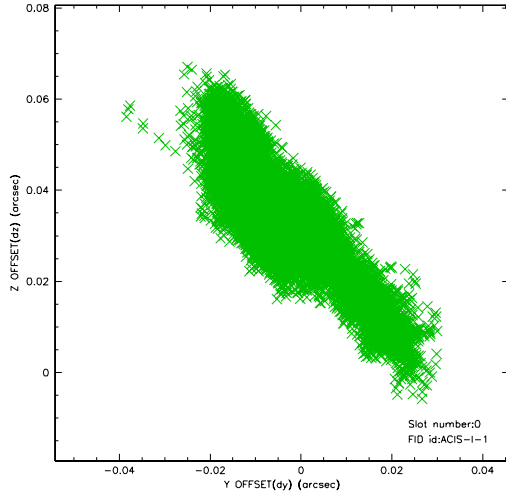


## 2.4.5 Slot 7

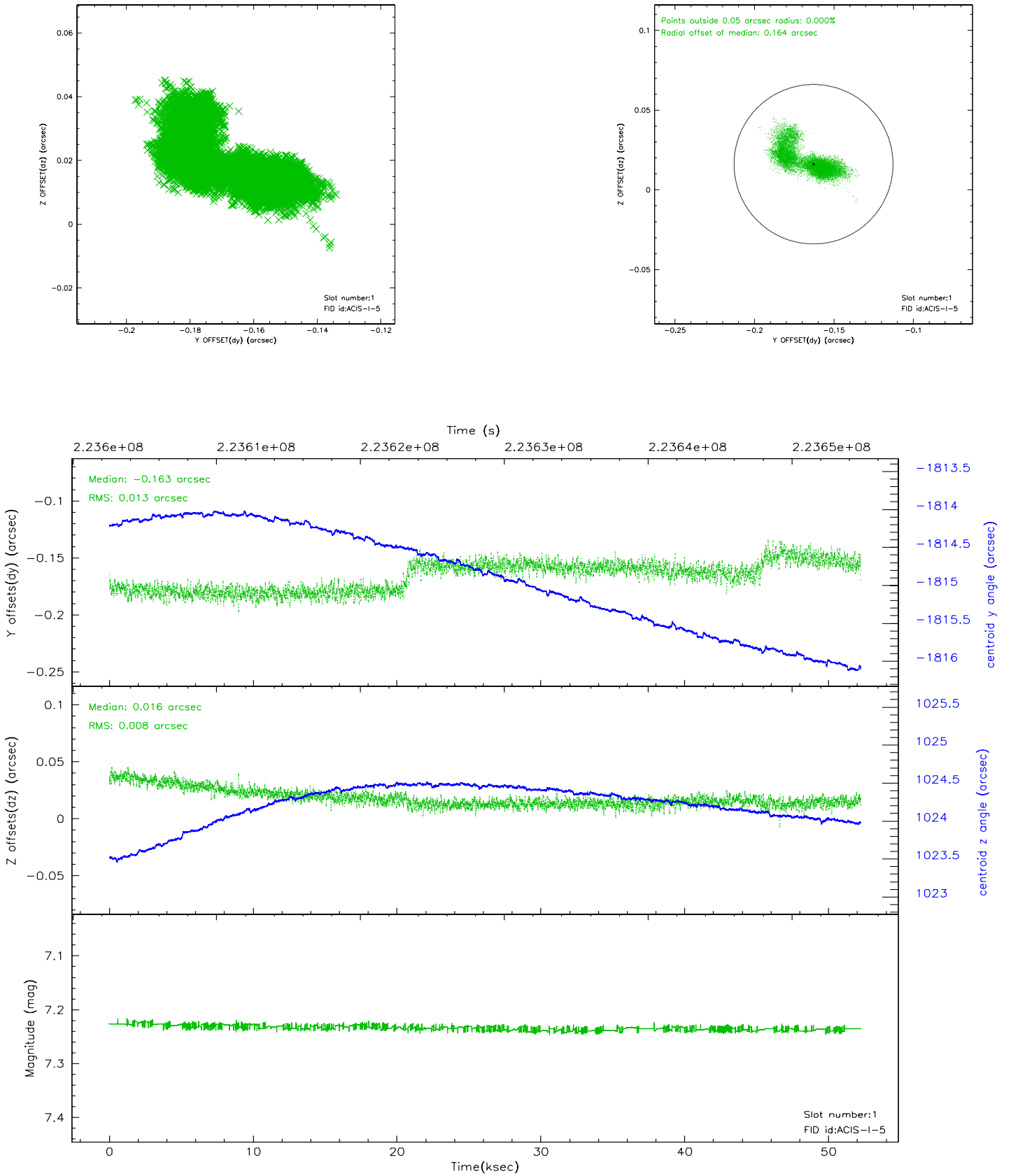


## 2.5 FID Slots

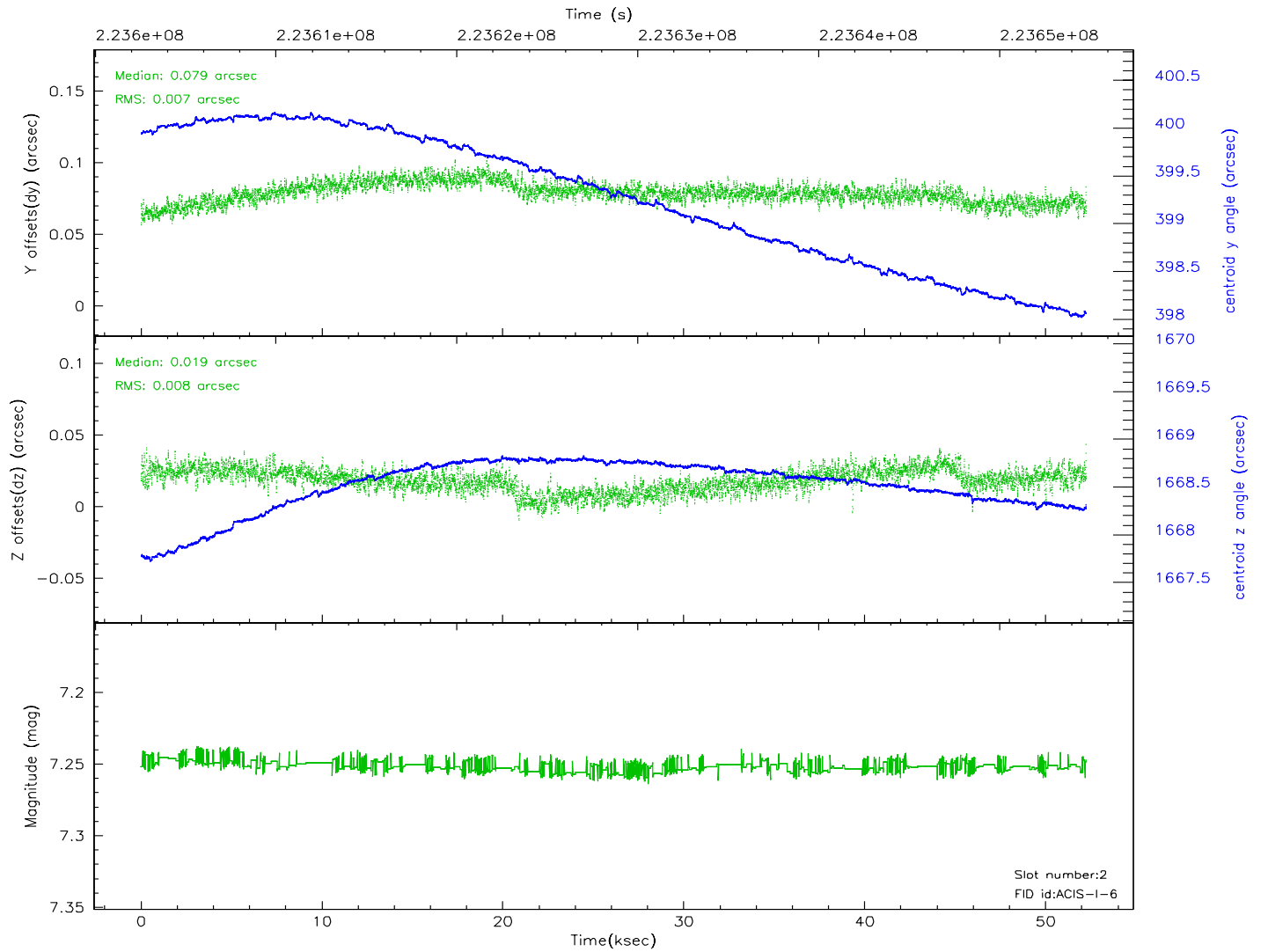
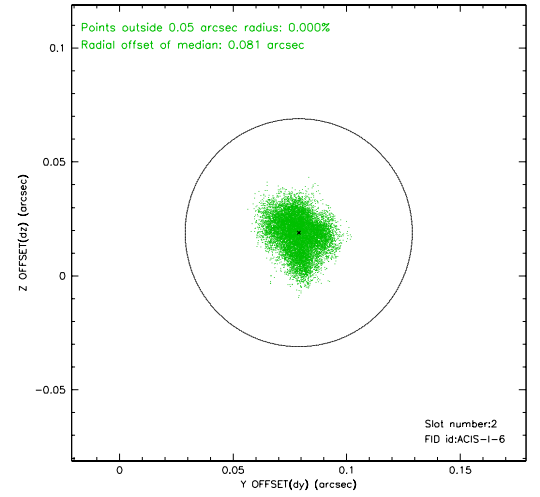
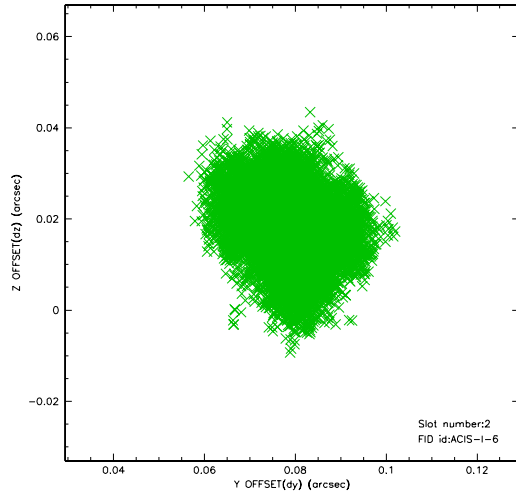
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	52.23495

### A.2 Comments

Focal plane temperature rises during latter half of observation.