

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 5841 - L2 Version 002  
Chandra X-Ray Center

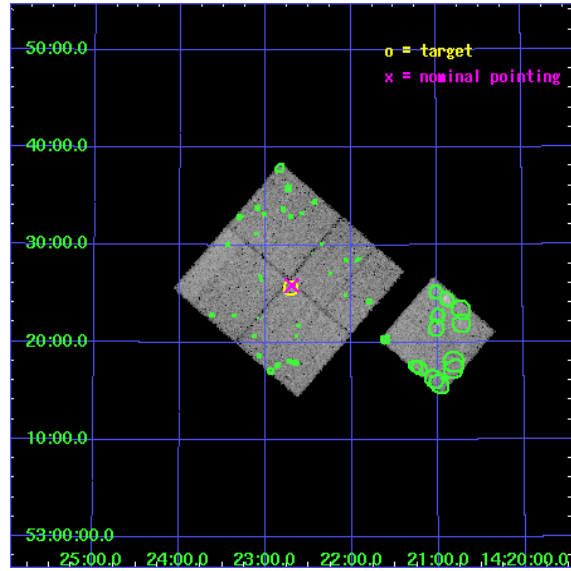
L2 Processing Date: Feb 27 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

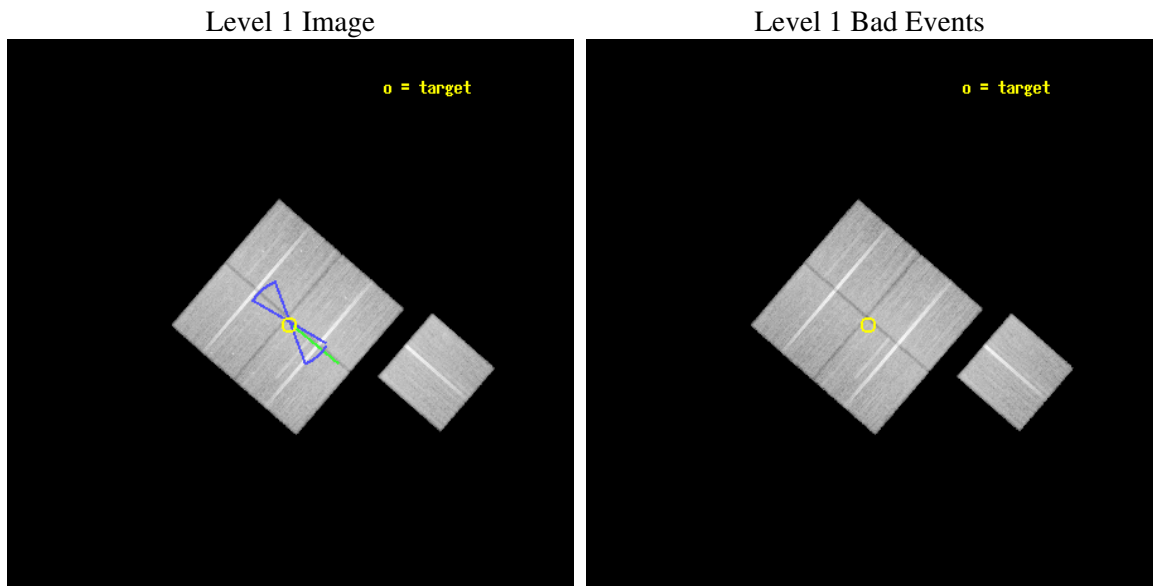
seq_num	900348
obs_id	5841
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies
observer	Dr Kirpal Nandra
object	EGS-1
dtcycle	0
cycle	P
ra_targ	215.676254
dec_targ	53.427086
ra_nom	215.67386259611
dec_nom	53.43149308366
roll_nom	130.89347891876
revision	2
ontime	45039.776982665
livetime	44451.299138585
ontime0	45042.917932987
ontime1	45042.917932957
ontime2	45042.917952895
ontime3	45039.776982665
ontime6	45046.058913201
l2events	118606



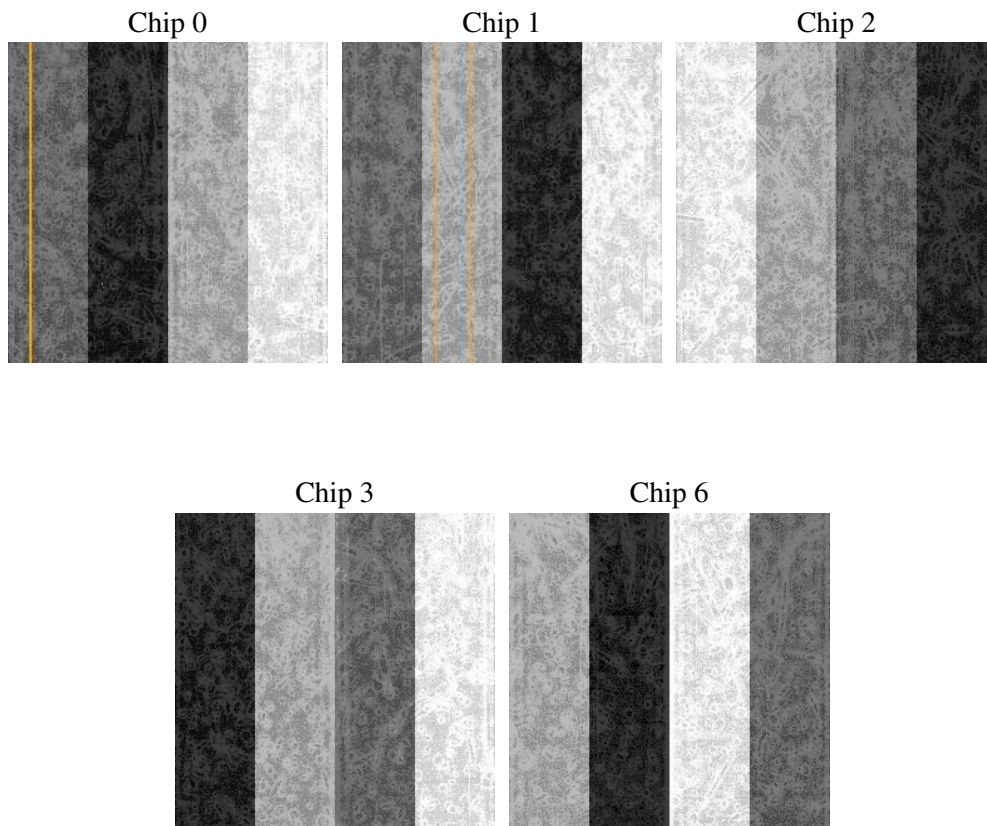
## 2 OBI

### 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	2006-02-27T10:51:11
revision	2

sched_exp_time	45000.000000
ontime	45045.209582418
ontime0	45048.35053274
ontime1	45048.350532711
ontime2	45048.350552648
ontime3	45045.209582418
ontime6	45051.491512954
l1events	1393605

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	266291	263370	299379	281499	283066
rejected events	237924	231994	271998	255407	253806
rejected %	89%	88%	90%	90%	89%

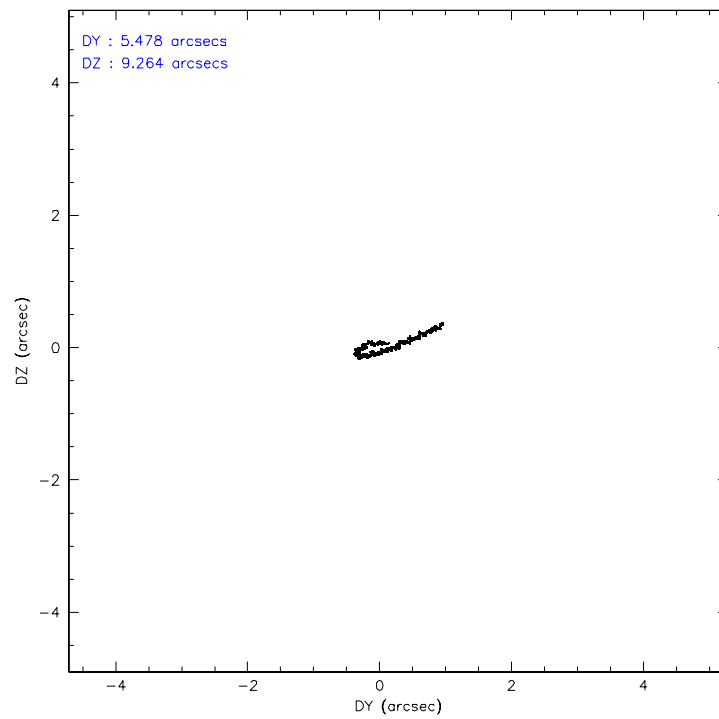
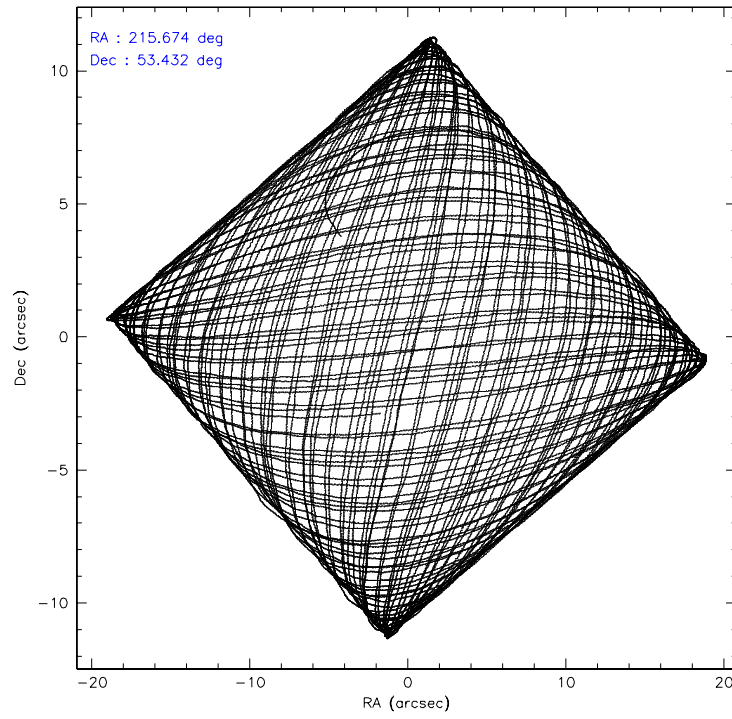
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9945	11208	9606	8947	10451
	3%	4%	3%	3%	3%
grade 1 events	134	130	163	144	129
	0%	0%	0%	0%	0%
grade 2 events	6660	6835	6568	5788	6313
	2%	2%	2%	2%	2%
grade 3 events	3251	3569	3021	3083	3284
	1%	1%	1%	1%	1%
grade 4 events	3081	3470	3096	3033	3169
	1%	1%	1%	1%	1%
grade 5 events	10147	10825	9449	11361	11357
	3%	4%	3%	4%	4%
grade 6 events	5435	6299	5096	5244	6050
	2%	2%	1%	1%	2%
grade 7 events	227638	221034	262380	243899	242313
	85%	83%	87%	86%	85%

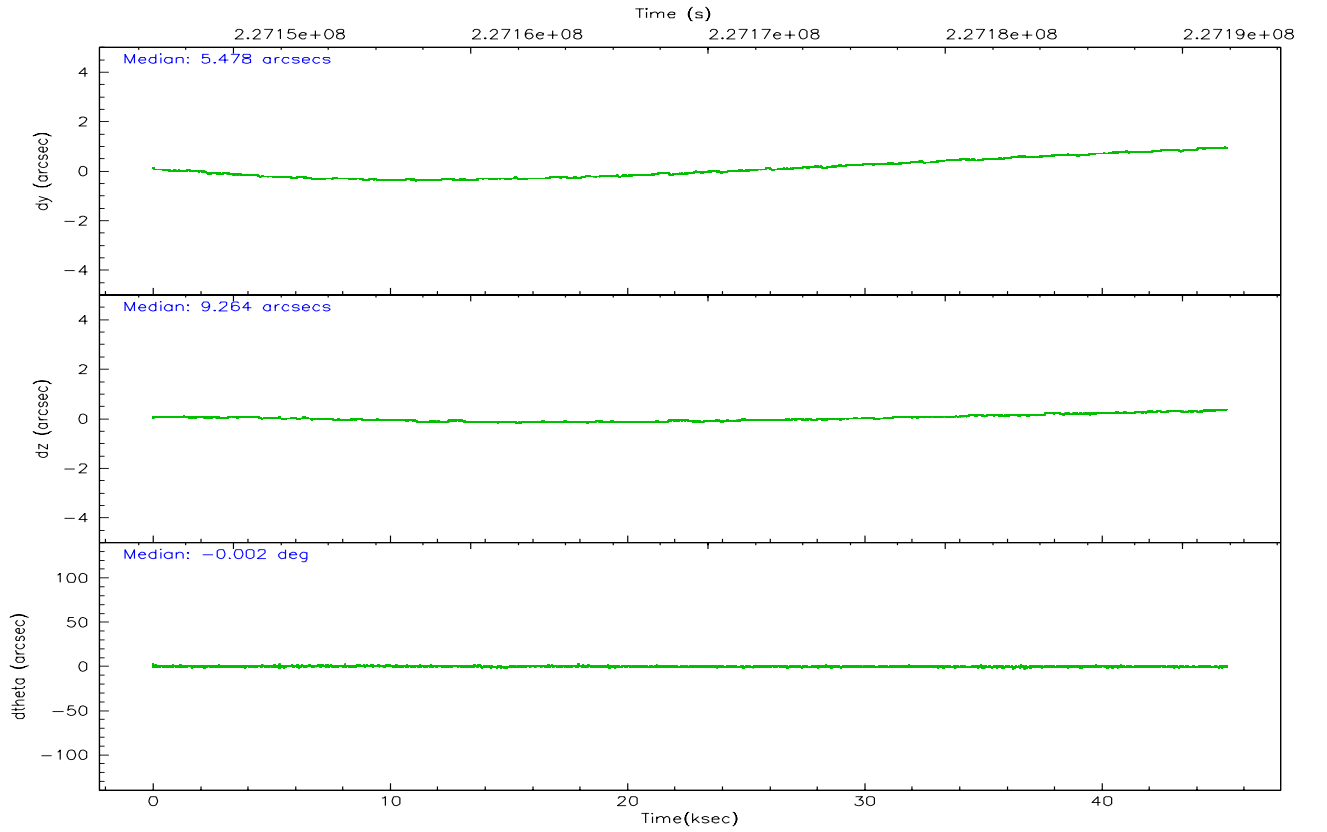
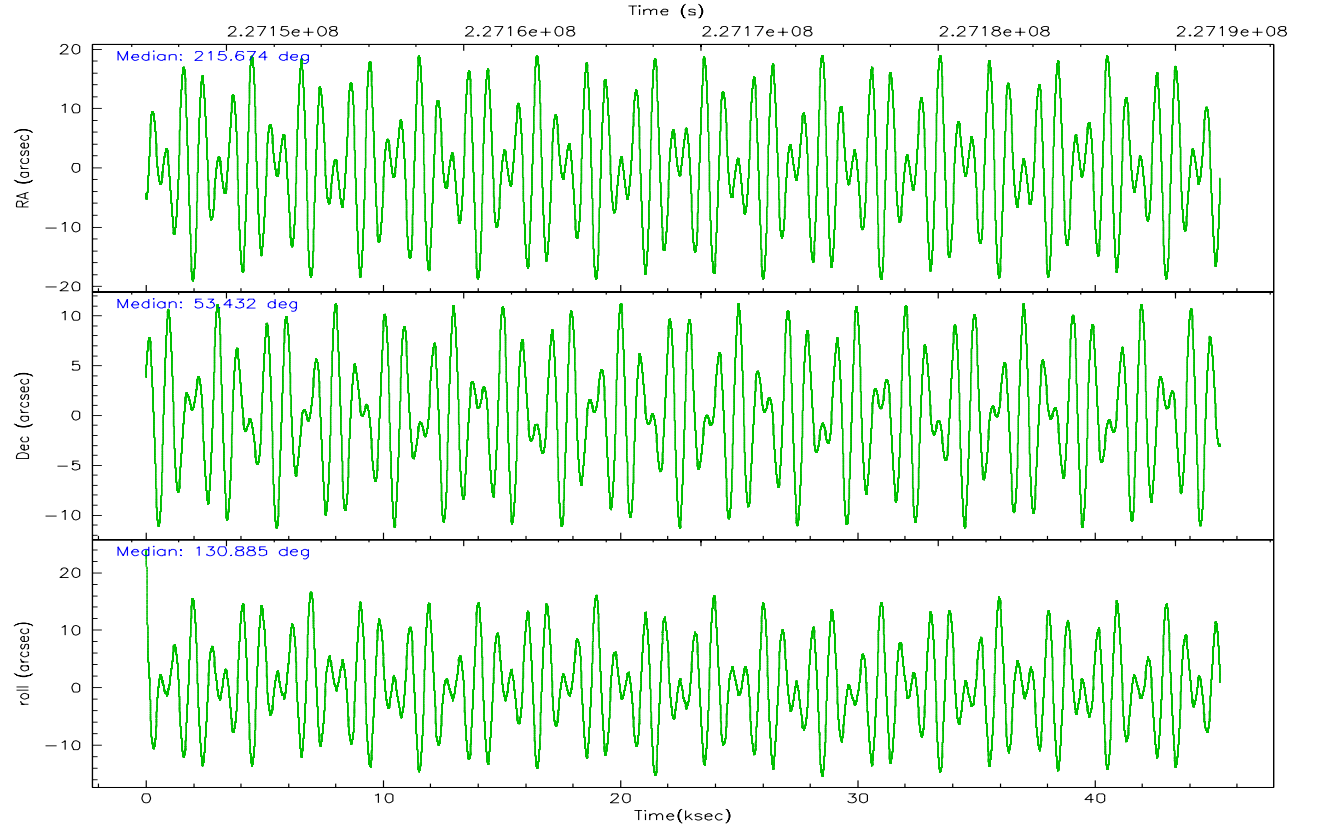


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	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	215.717341	215.6738625961094	Alternating exposures requested	N	N
Pointing Dec	53.422622	53.43149308365992	Primary exposure time	0.000000	3.1
Pointing Roll	130.649875	130.8934789187589			
Roll angle	50.756000	50.756000			
Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	227146887.184000	227145849.79322			
Observation start date	2005-03-14T00:20:23	2005-03-14T00:04:09			
Observation end time	227191887.184000	227192814.78285			
Observation end date	2005-03-14T12:50:23	2005-03-14T13:06:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



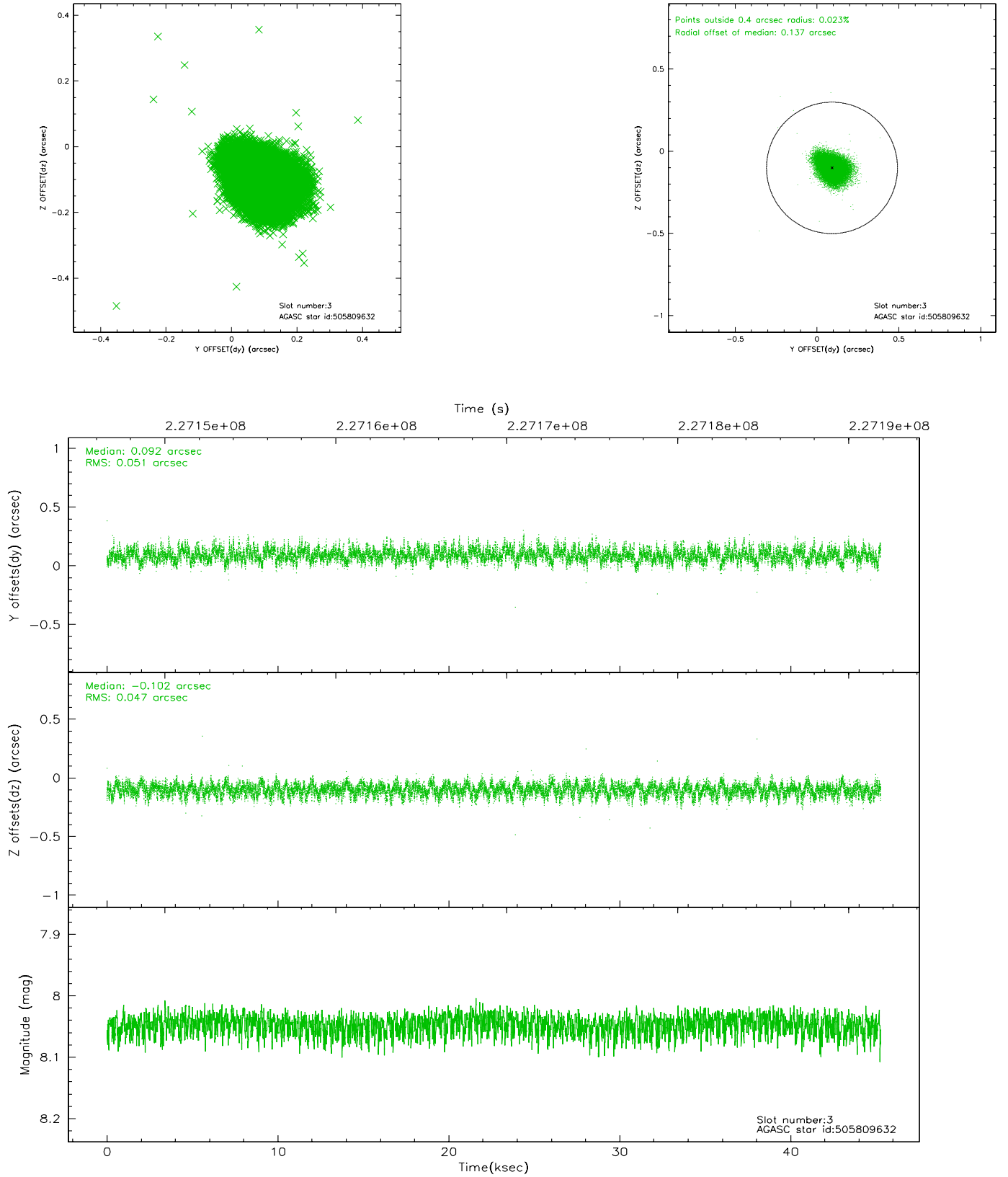


### Slot Statistics

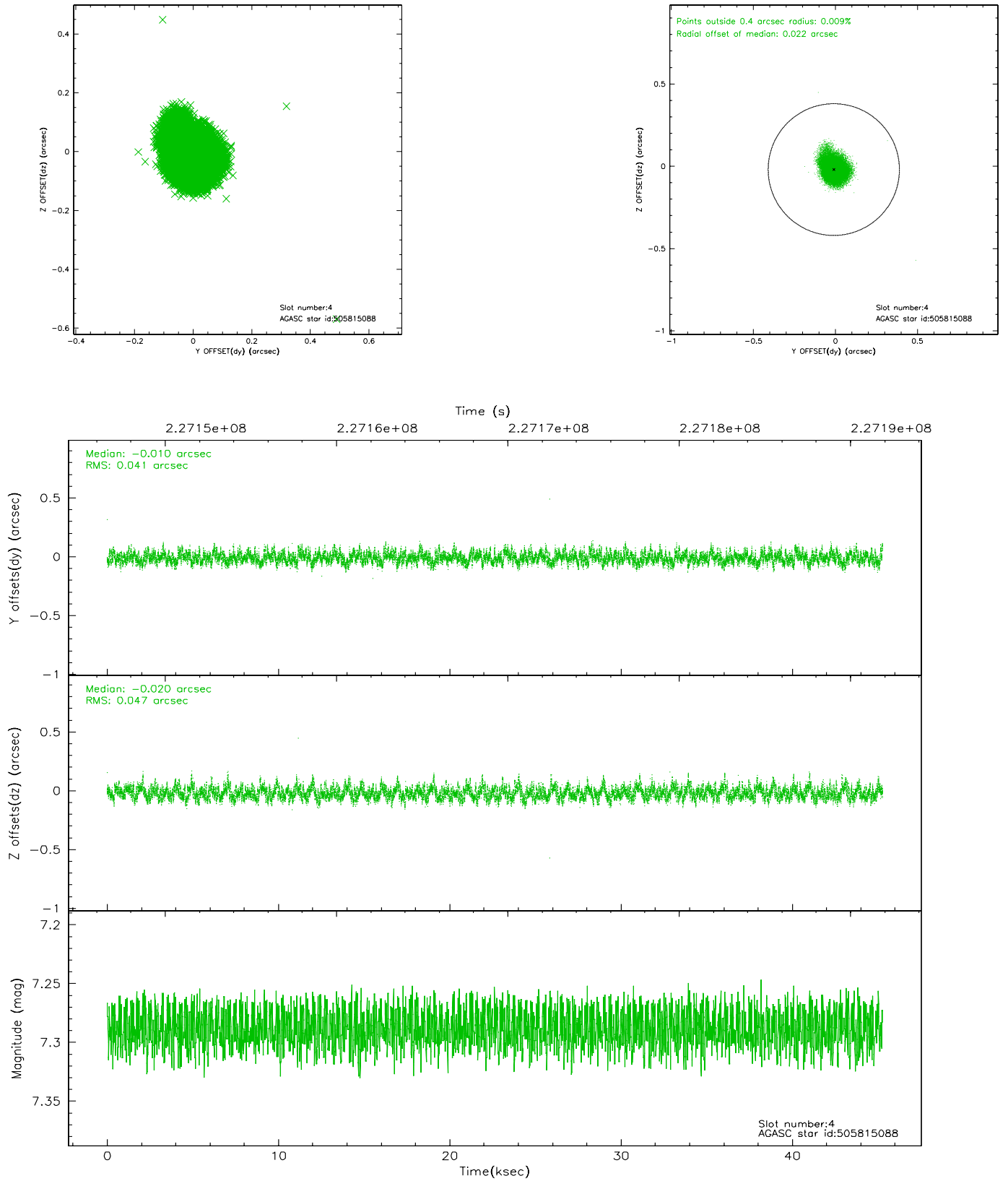
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	11045	-0.045	-0.037	0.011	0.018	0.000000	0.000000	-760.09	-839.14
1	FID	ACIS-I-4	7.18	11045	0.092	0.043	0.014	0.029	0.000000	0.000000	2154.11	1067.10
2	FID	ACIS-I-5	7.22	11045	-0.145	0.063	0.012	0.020	0.000000	0.000000	-1814.01	1064.98
3	GUIDE	505809632	8.05	22090	0.092	-0.102	0.074	0.119	215.499426	53.521185	573.81	122.65
4	GUIDE	505815088	7.29	22089	-0.010	-0.020	0.066	0.107	216.315963	53.584954	-386.13	-1354.52
5	GUIDE	505817176	8.26	22082	0.023	0.147	0.075	0.120	216.408138	53.717379	-147.57	-1811.88
6	GUIDE	505817384	8.07	22081	-0.066	0.063	0.070	0.116	216.827424	53.311152	-1844.62	-1562.19
7	GUIDE	505814280	10.37	22072	-0.037	-0.077	0.229	0.376	215.666550	52.589481	-2203.51	2038.15

## 2.4 Star Slots

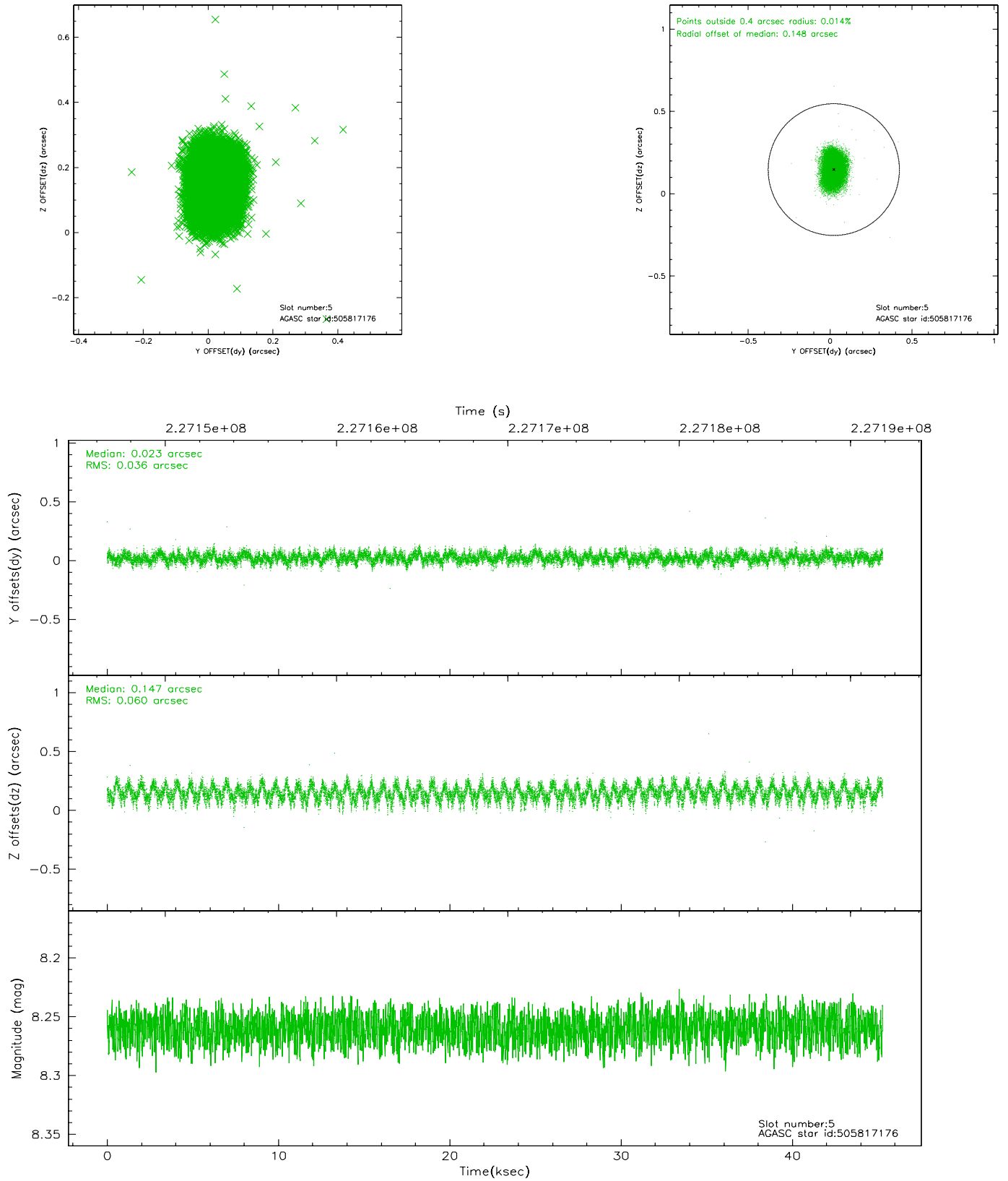
### 2.4.1 Slot 3



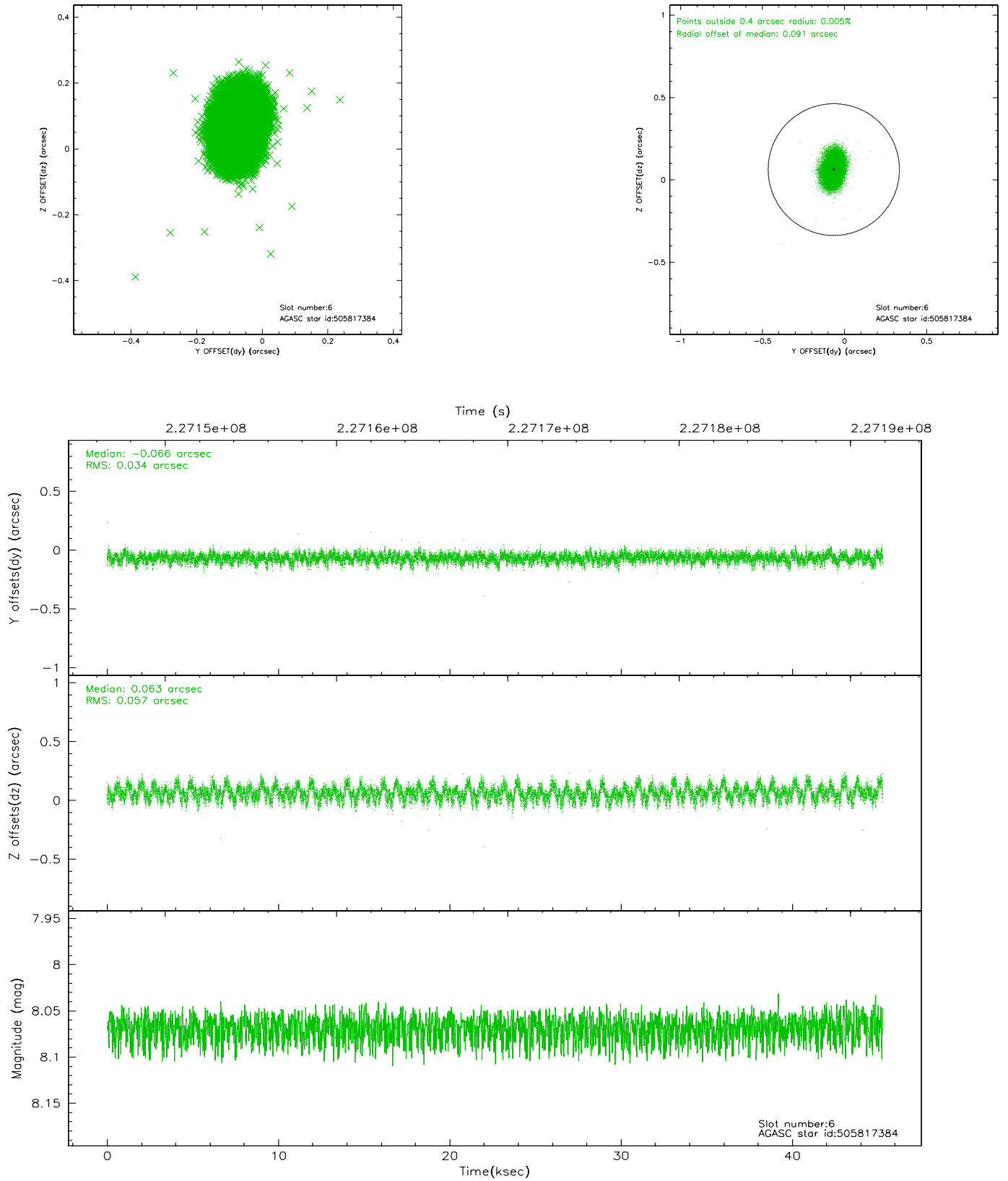
## 2.4.2 Slot 4



### 2.4.3 Slot 5

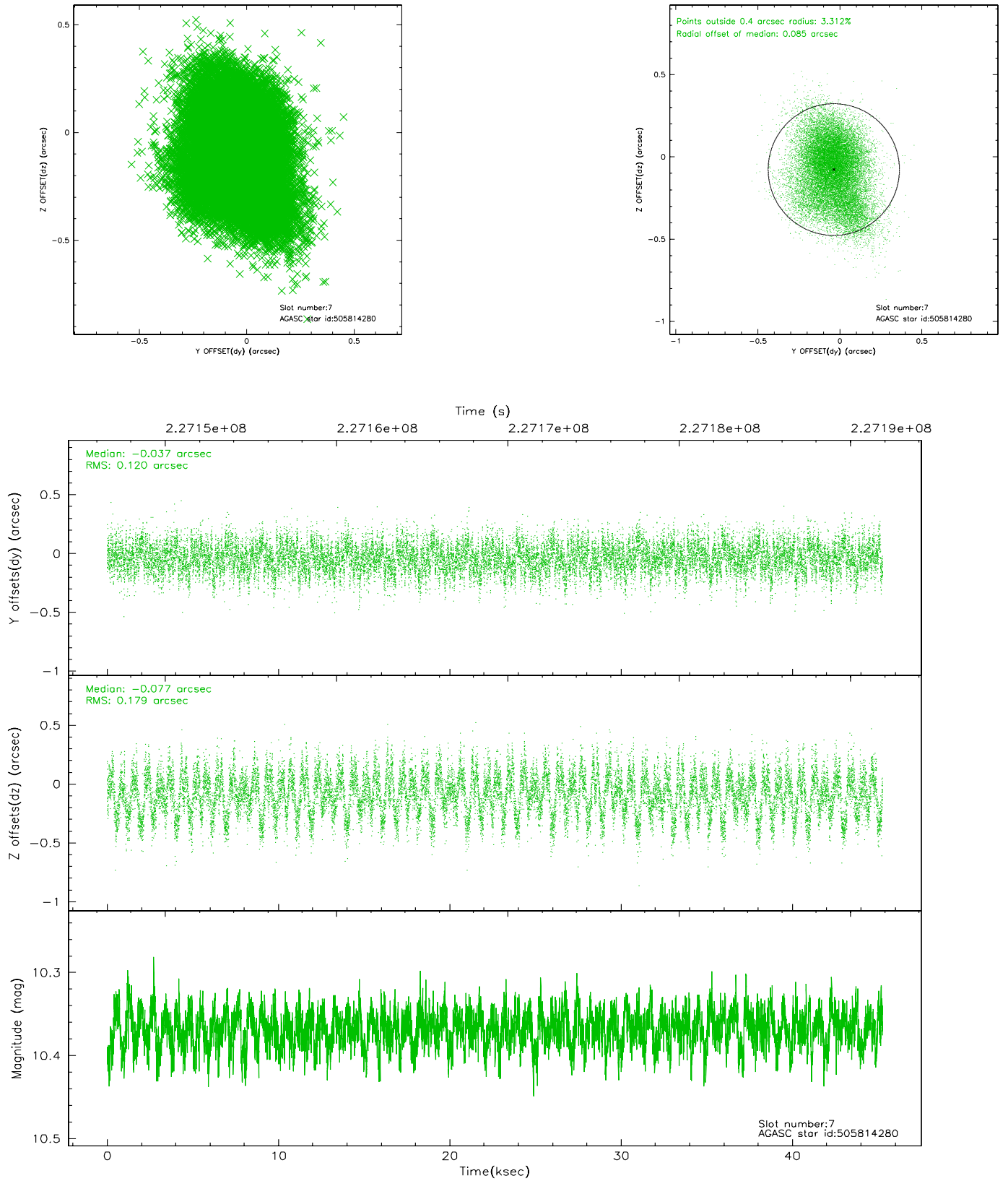


## 2.4.4 Slot 6



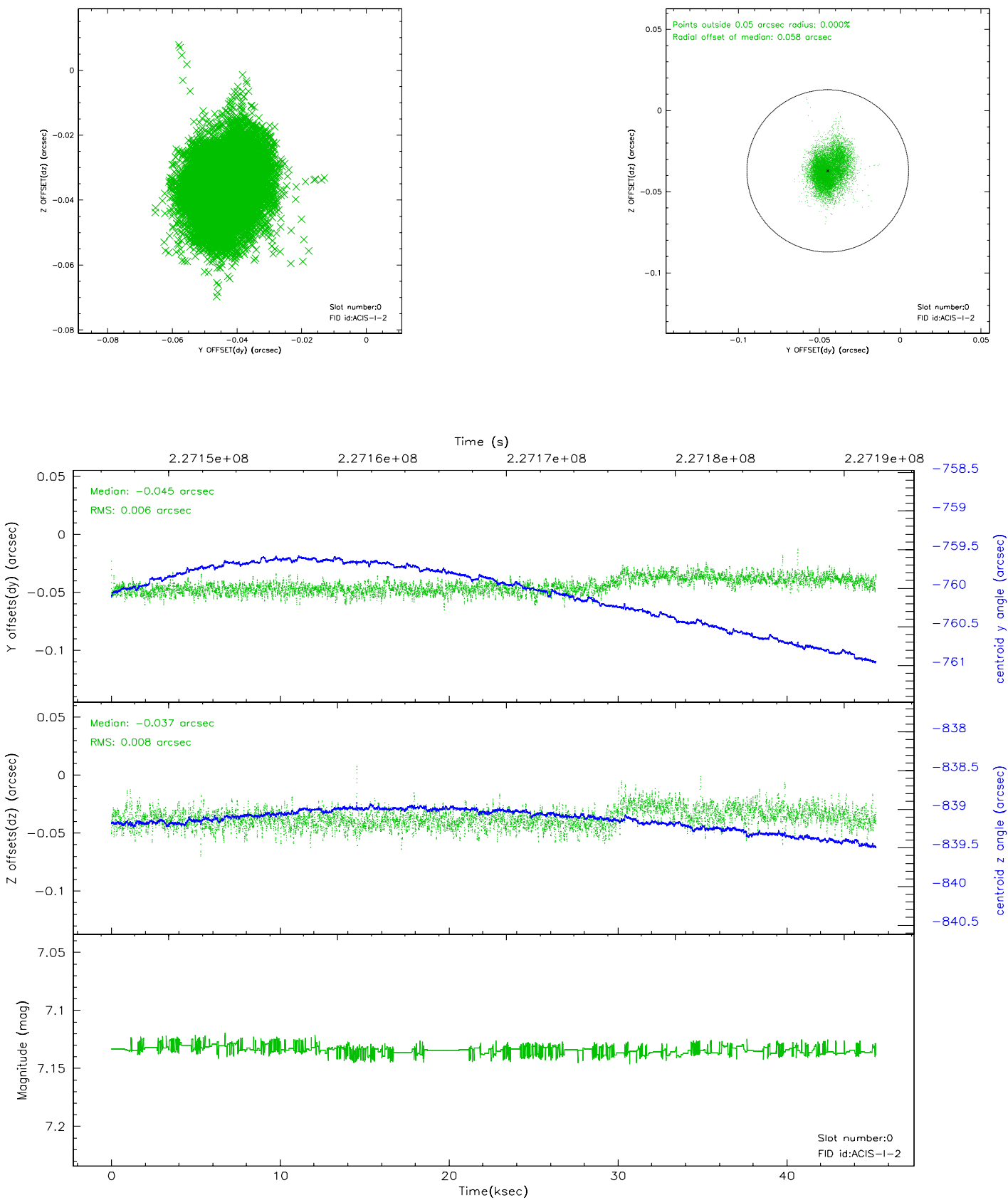


## 2.4.5 Slot 7

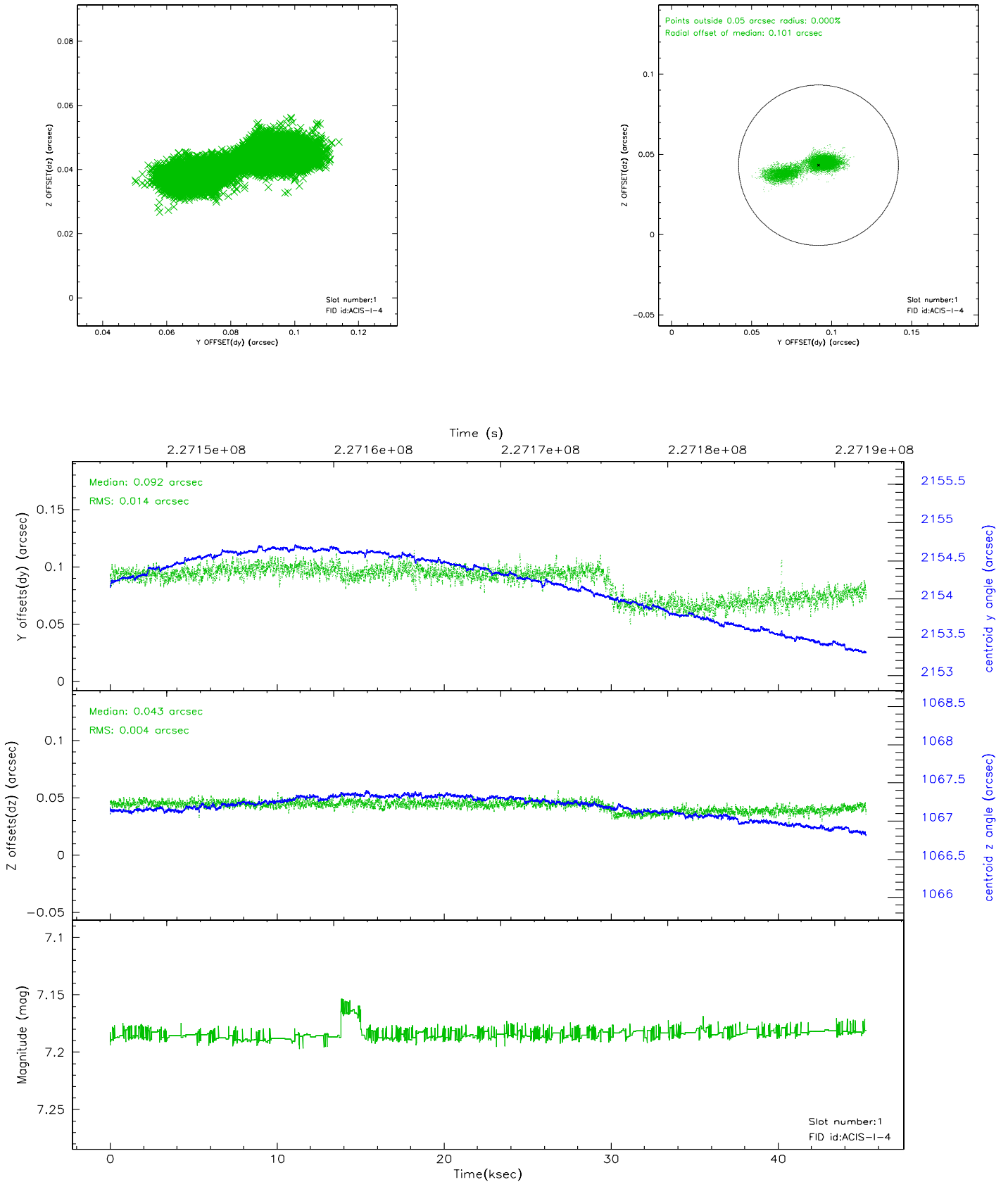


## 2.5 FID Slots

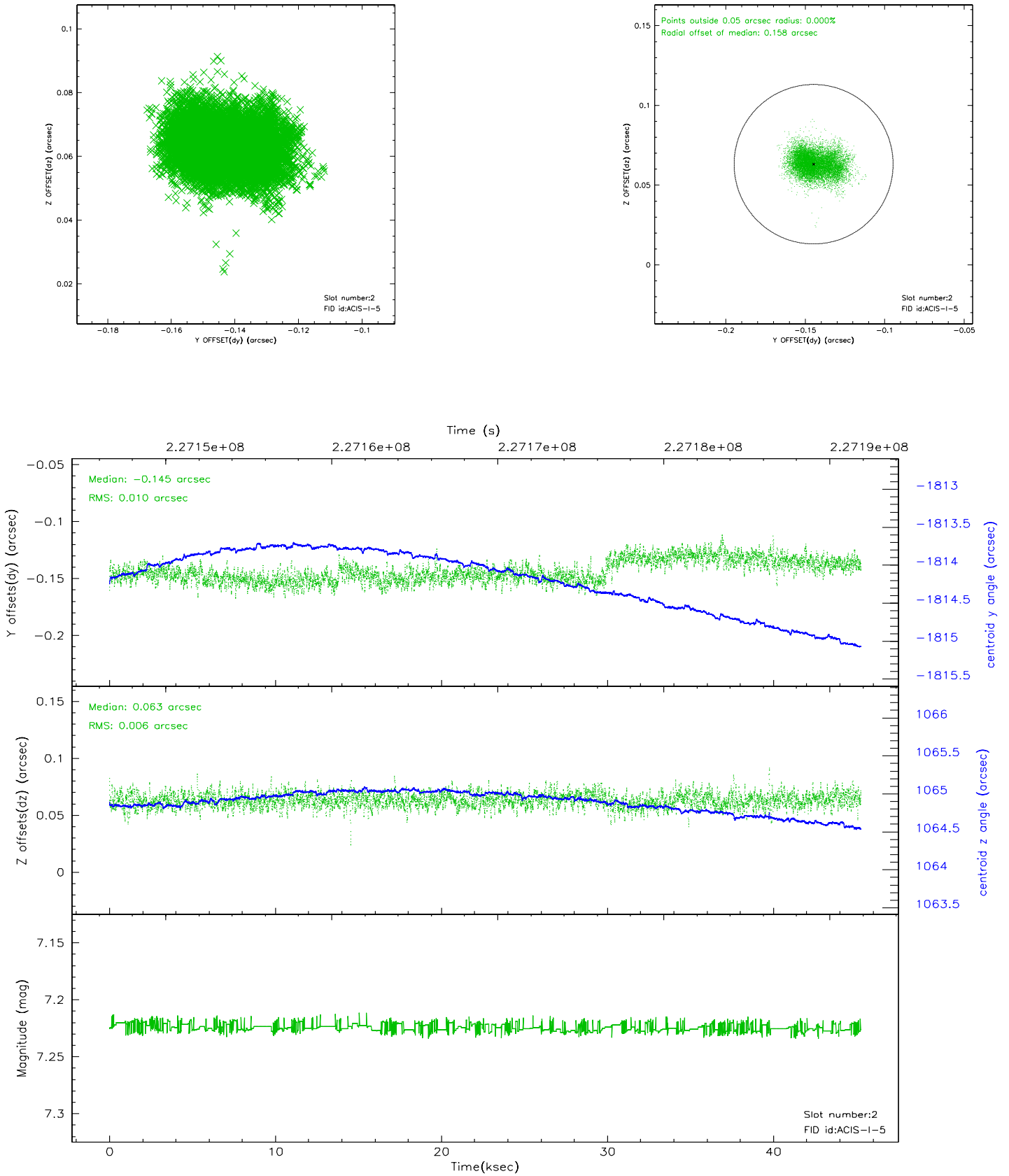
### 2.5.1 Slot 0



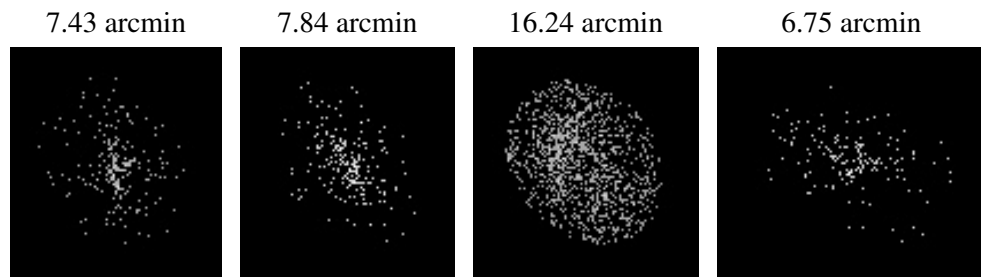
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.03977

### A.2 Comments

Roll constraint satisfied.