

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1641 - L2 Version 001  
Chandra X-Ray Center

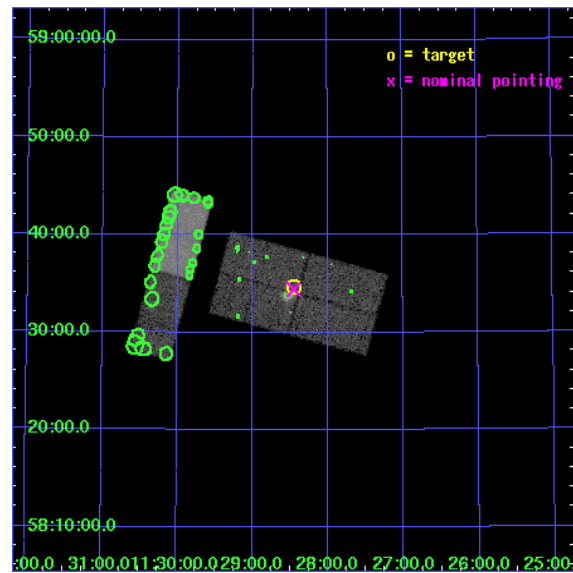
L2 Processing Date : Dec 14 2006

## 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

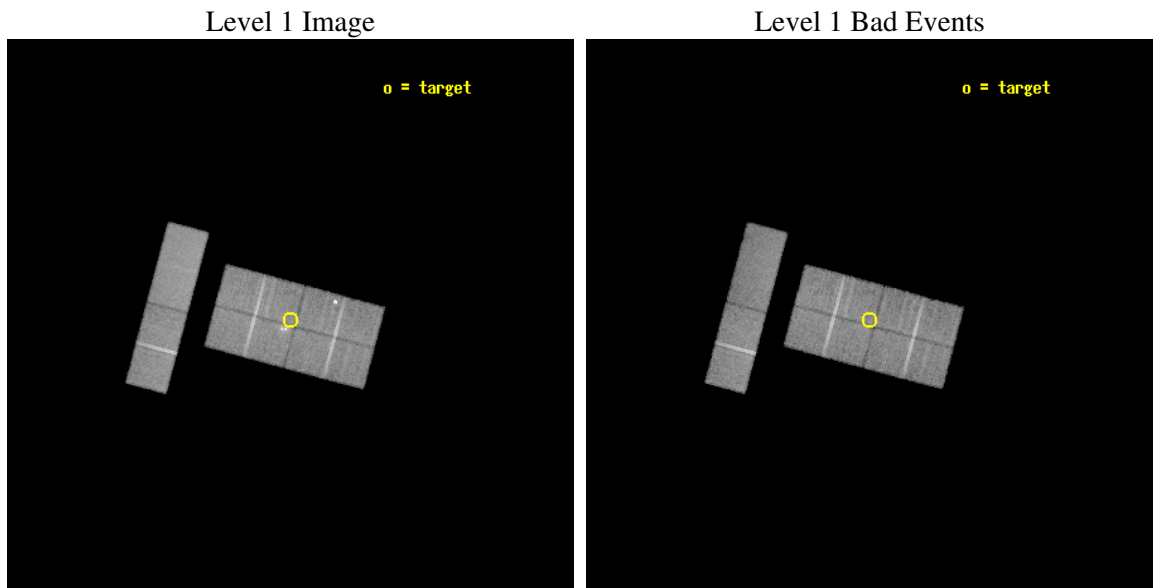
seq_num	700257
obs_id	1641
title	X-RAY LUMINOUS STARBURST GALAXY ARP299
observer	Dr. Stephen Murray
object	ARP299
dtcycle	0
cycle	P
ra_targ	172.11375
dec_targ	58.578333
ra_nom	172.11247662905
dec_nom	58.573648868158
roll_nom	285.04225699974
revision	2
ontime	24850.799958855
livetime	24296.832185036
ontime0	24850.799958855
ontime1	24850.799958855
ontime2	24848.958968684
ontime3	24850.799958855
ontime6	24849.892675593
ontime7	24850.799958855
l2events	88303



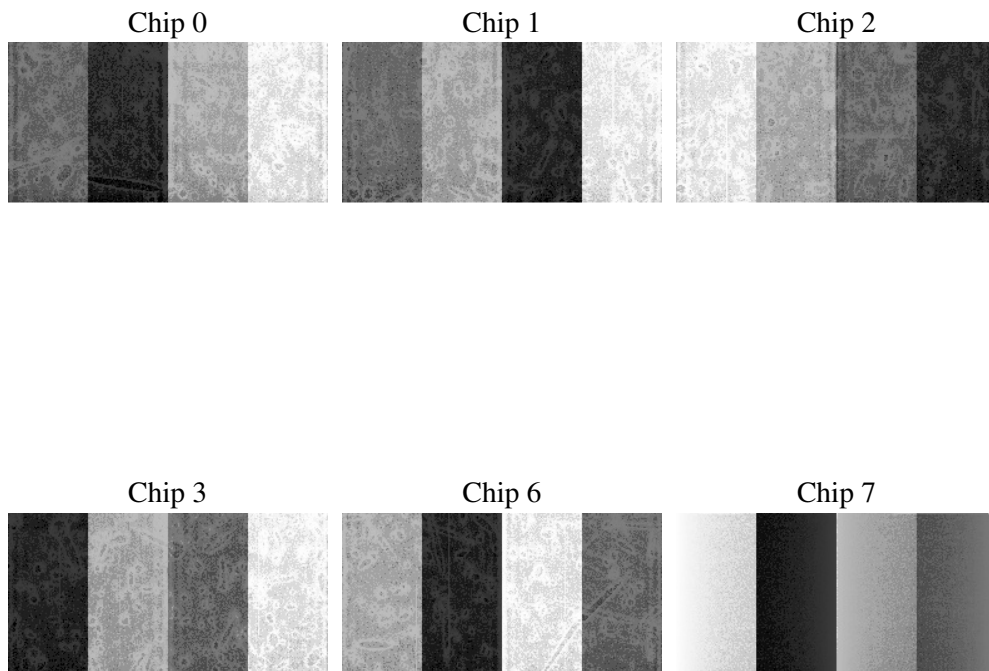
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-12-14T08:45:15
revision	2

sched_exp_time	24700.000000
ontime	25223.756296724
ontime0	25223.756296724
ontime1	25223.756296724
ontime2	25221.915306553
ontime3	25223.756296724
ontime6	25221.915256724
ontime7	25223.756296724
l1events	592665

### 2.1.4 Events

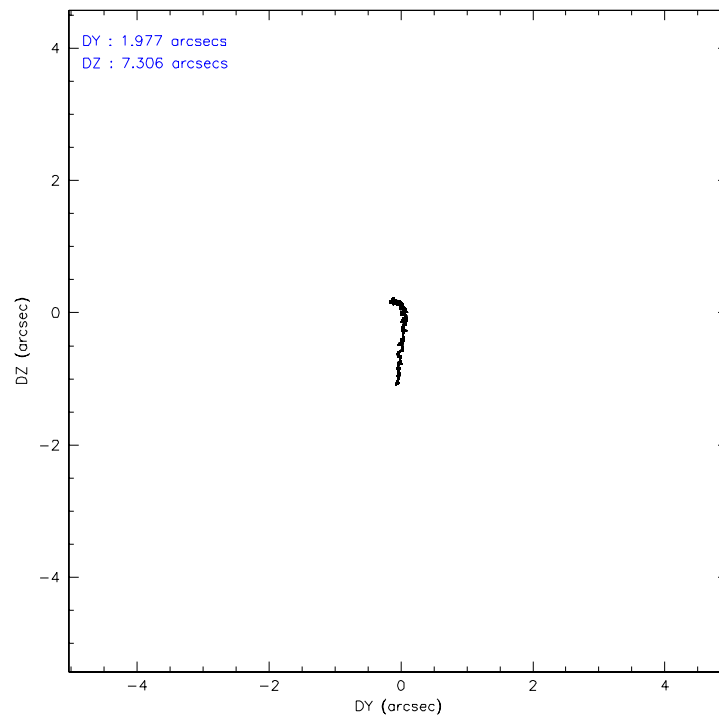
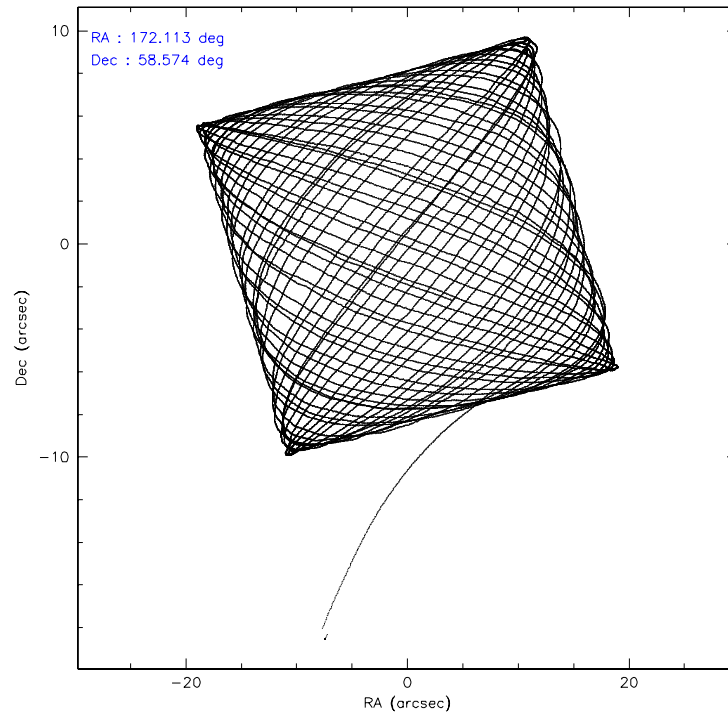
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	88641	91356	100686	97887	101542	112553
rejected events	78373	77656	85547	87342	91227	70595
rejected %	88%	85%	84%	89%	89%	62%

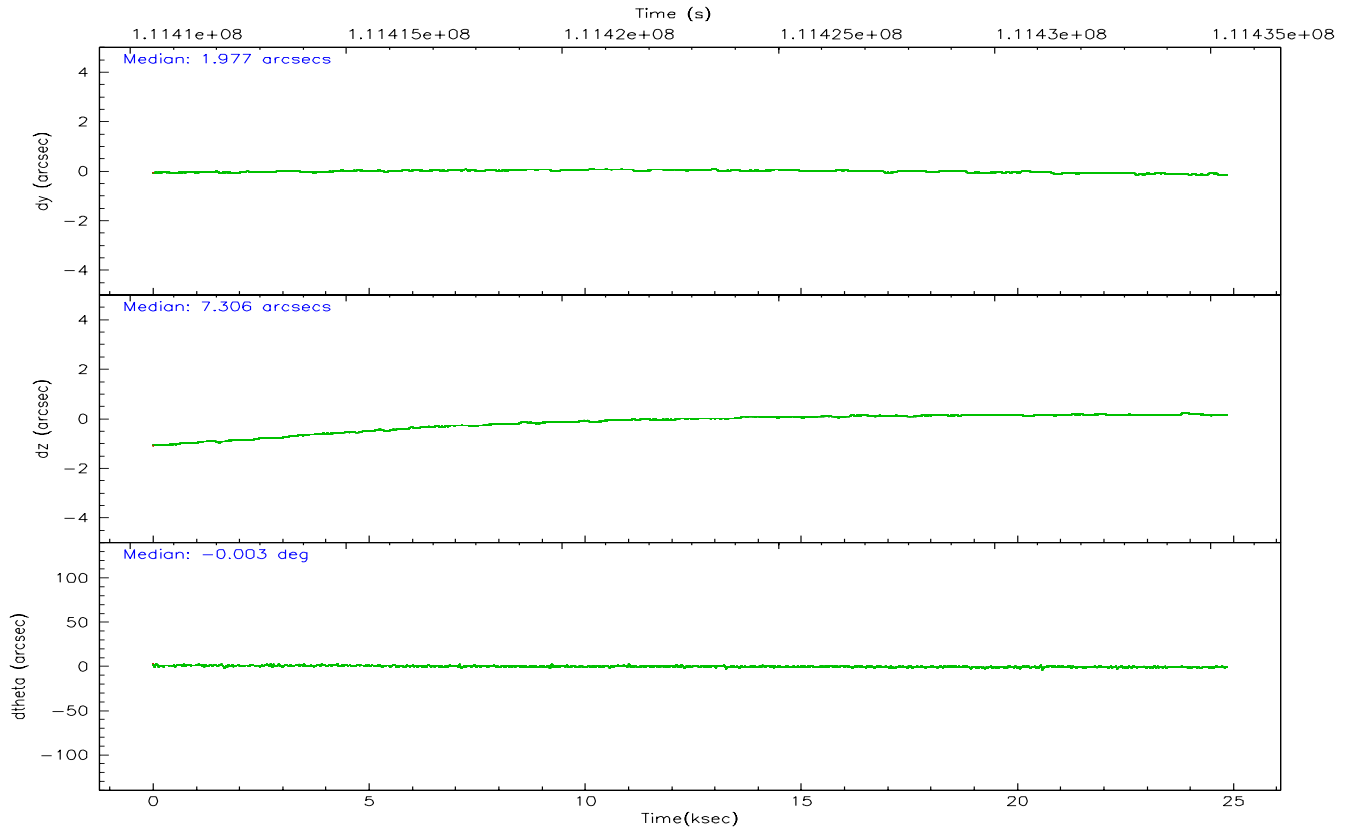
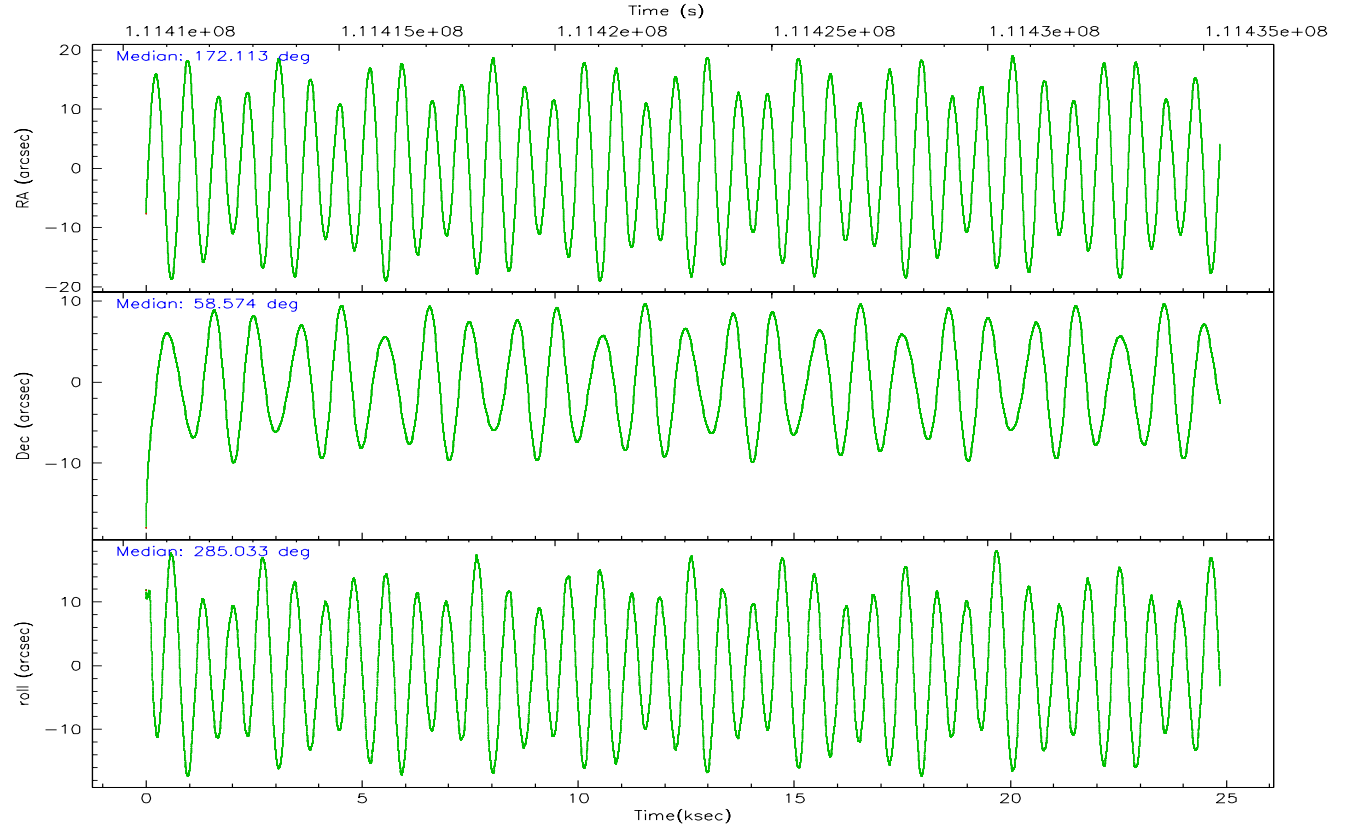
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4145	7807	8407	4480	3923	2645
	4%	8%	8%	4%	3%	2%
grade 1 events	53	44	52	52	42	67
	0%	0%	0%	0%	0%	0%
grade 2 events	2143	2017	2475	1983	2085	11015
	2%	2%	2%	2%	2%	9%
grade 3 events	1195	1157	1328	1140	1261	2282
	1%	1%	1%	1%	1%	2%
grade 4 events	1132	1142	1246	1222	1220	2196
	1%	1%	1%	1%	1%	1%
grade 5 events	3298	3403	3103	3541	4041	7429
	3%	3%	3%	3%	3%	6%
grade 6 events	1797	1786	1839	1893	2003	24459
	2%	1%	1%	1%	1%	21%
grade 7 events	74878	74000	82236	83576	86967	62460
	84%	81%	81%	85%	85%	55%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	172.075190	172.1124766290453	Subarray requested	1/2	1/2
Pointing Dec	58.593008	58.57364886815762	Subarray start row	0	513
Pointing Roll	284.865395	285.0422569997357	Subarray row count	1024	512
SIM focus pos (mm)	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001439871863259334	Primary exposure time	0.000000	1.8
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	111410681.184000	111409657.03628			
Observation start date	2001-07-13T11:23:37	2001-07-13T11:07:37			
Observation end time	111435381.184000	111436195.31232			
Observation end date	2001-07-13T18:15:17	2001-07-13T18:29:55			
Read mode	TIMED	TIMED			

## 2.3 Aspect





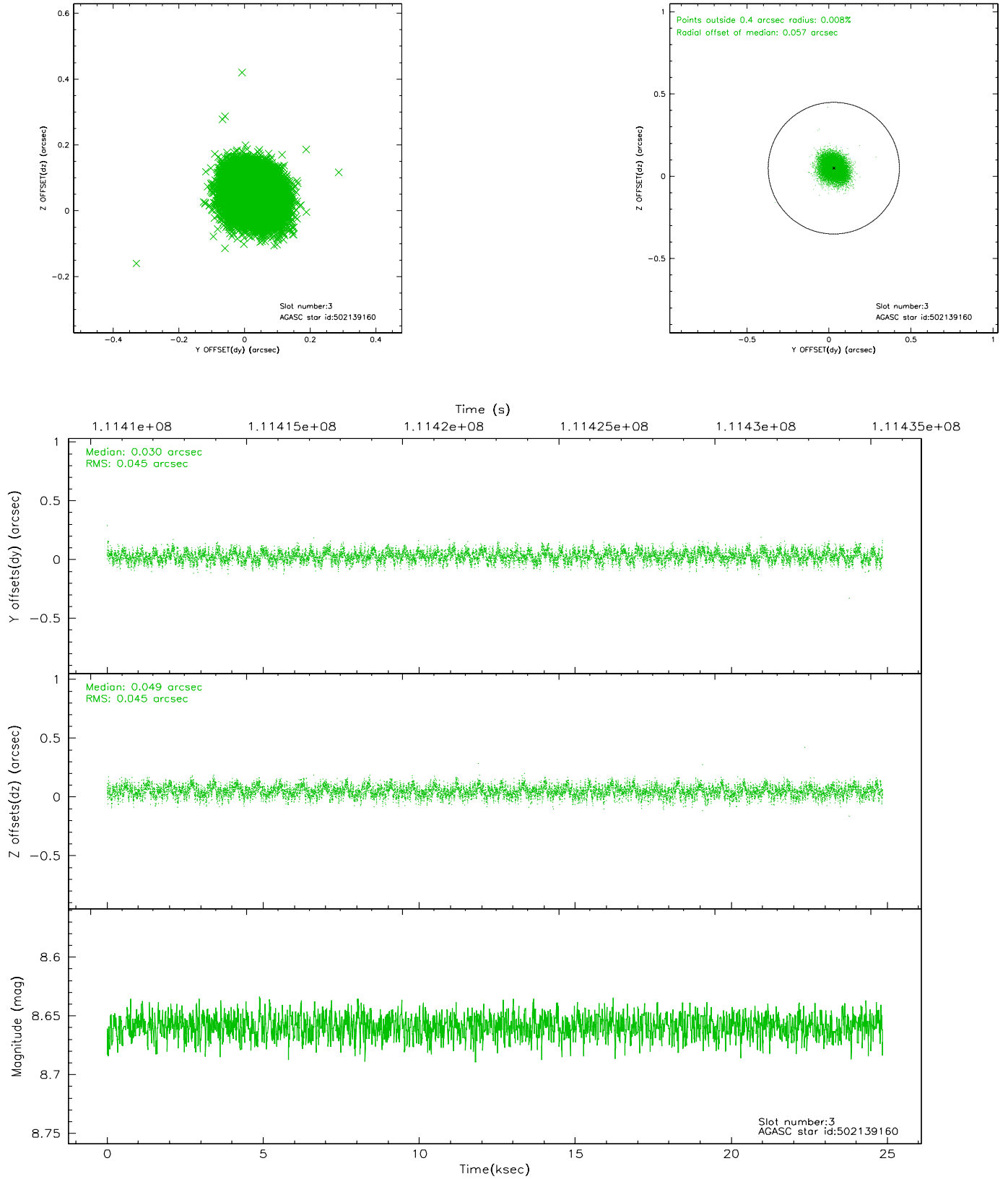
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	6063	-0.038	-0.050	0.010	0.017	0.000000	0.000000	-756.34	-836.97
1	FID	ACIS-I-4	7.18	6063	-0.049	0.043	0.007	0.013	0.000000	0.000000	2157.62	1069.27
2	FID	ACIS-I-5	7.23	6063	-0.015	0.076	0.011	0.018	0.000000	0.000000	-1810.02	1067.24
3	GUIDE	502139160	8.66	12121	0.030	0.049	0.069	0.108	171.922858	58.702202	-453.22	-174.53
4	GUIDE	502141424	8.82	12119	-0.012	0.005	0.081	0.134	170.796377	58.588126	-620.26	-2317.87
5	GUIDE	502139008	8.91	12116	0.009	-0.081	0.068	0.109	171.461493	58.762354	-888.07	-950.12
6	GUIDE	502143776	8.95	12122	0.015	0.088	0.081	0.129	172.980797	58.430865	990.65	1502.81
7	GUIDE	502142976	9.73	12117	-0.042	-0.056	0.101	0.165	171.032248	58.349058	329.08	-2125.54

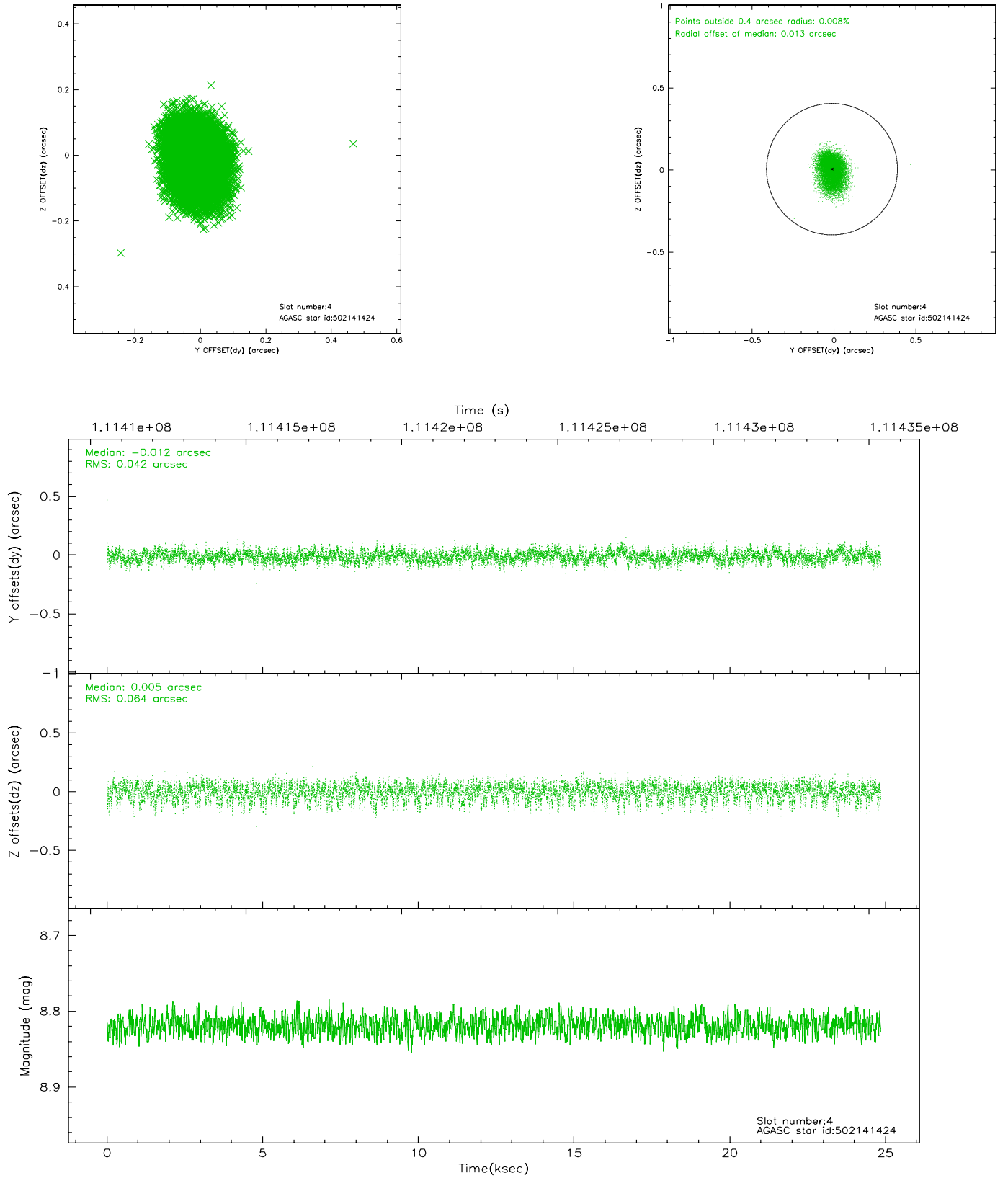


## 2.4 Star Slots

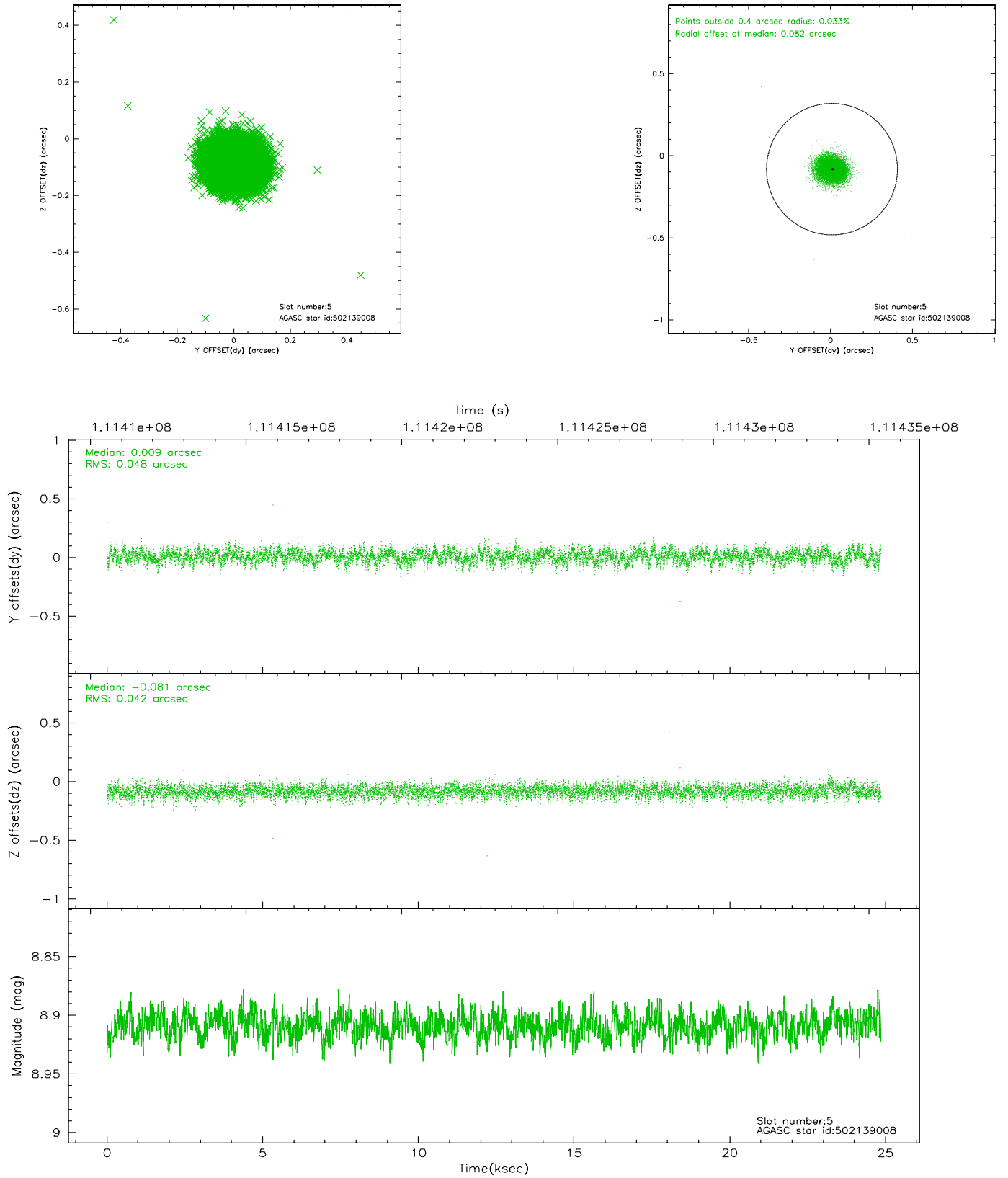
### 2.4.1 Slot 3



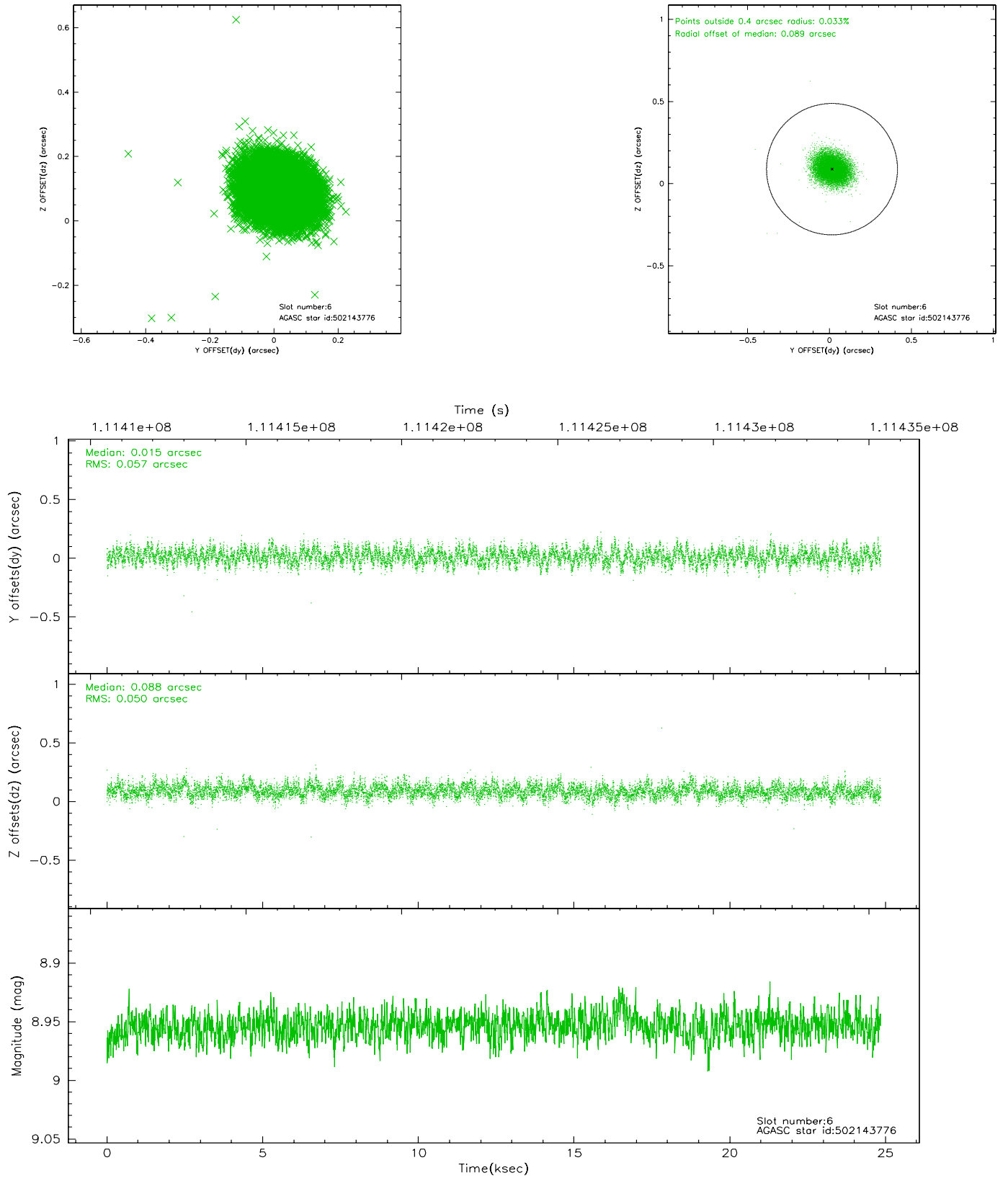
## 2.4.2 Slot 4



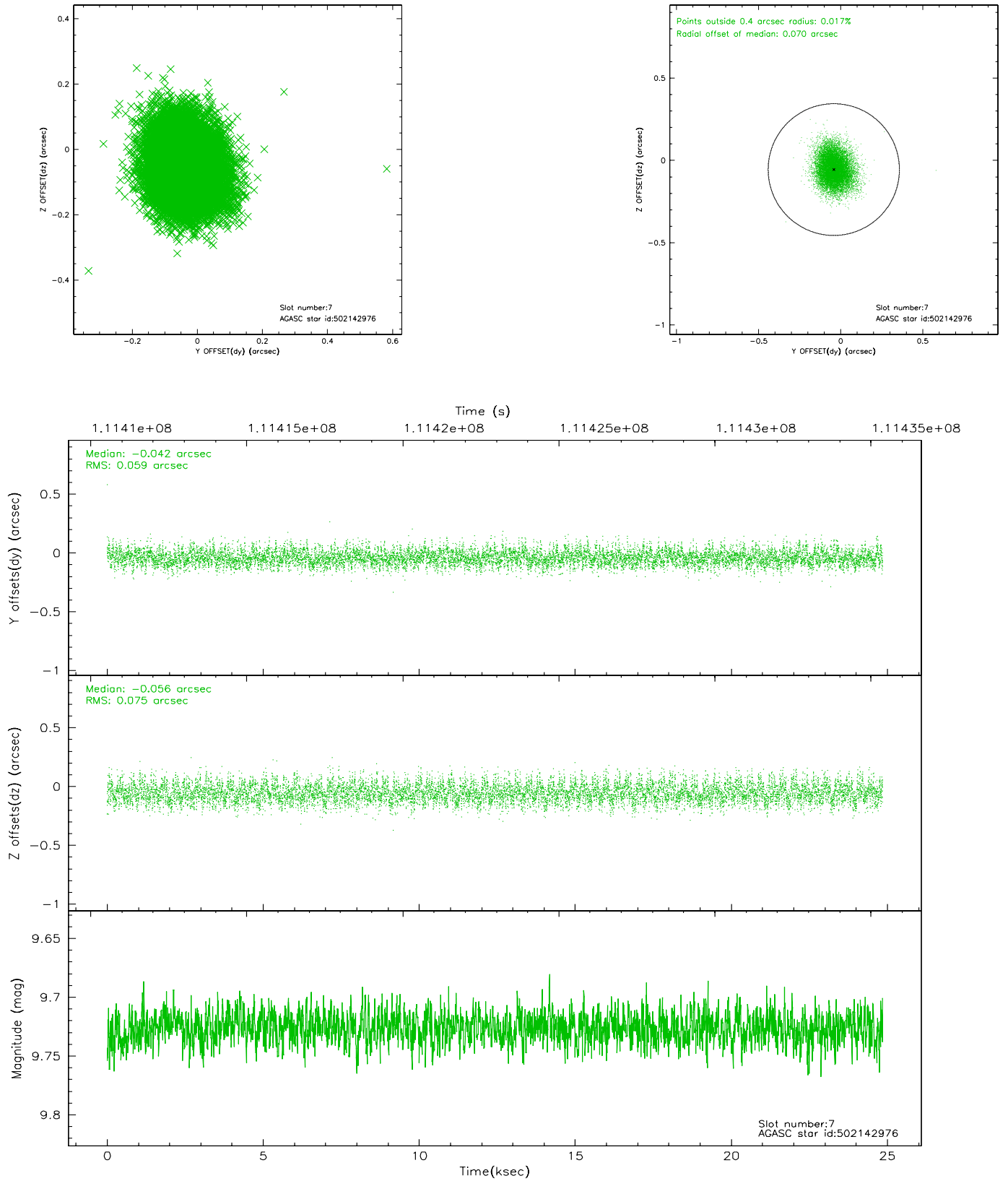
### 2.4.3 Slot 5



## 2.4.4 Slot 6

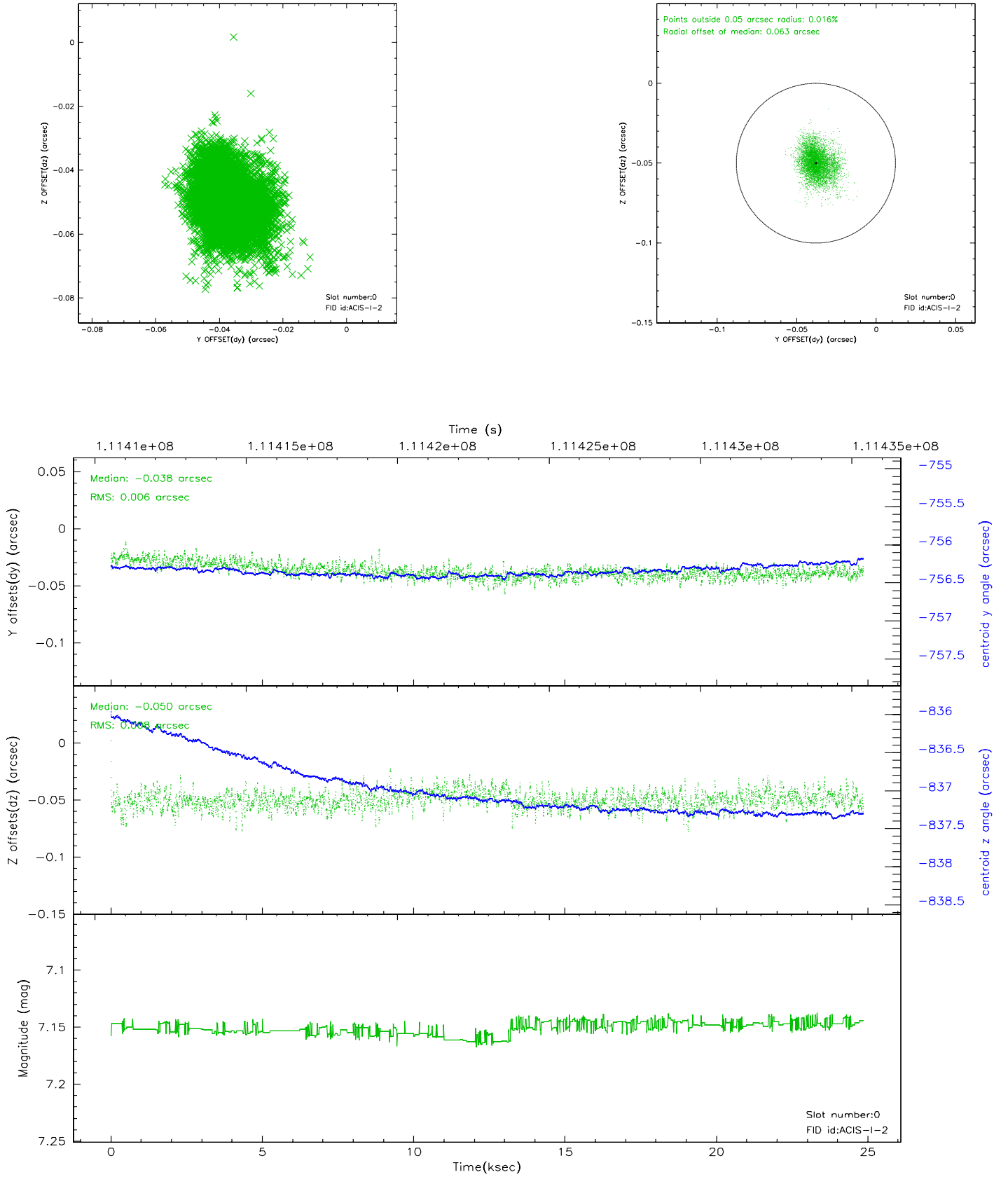


## 2.4.5 Slot 7

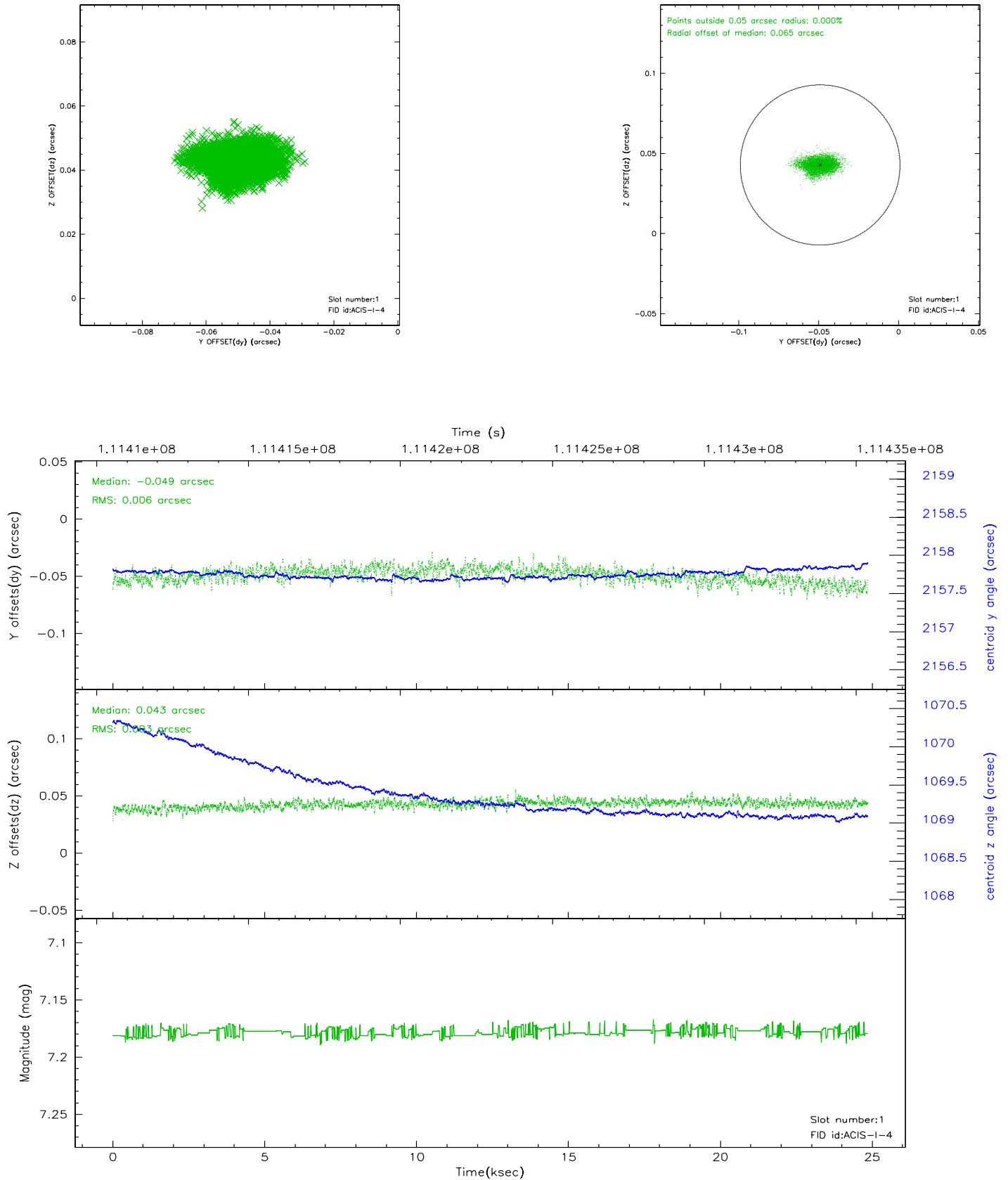


## 2.5 FID Slots

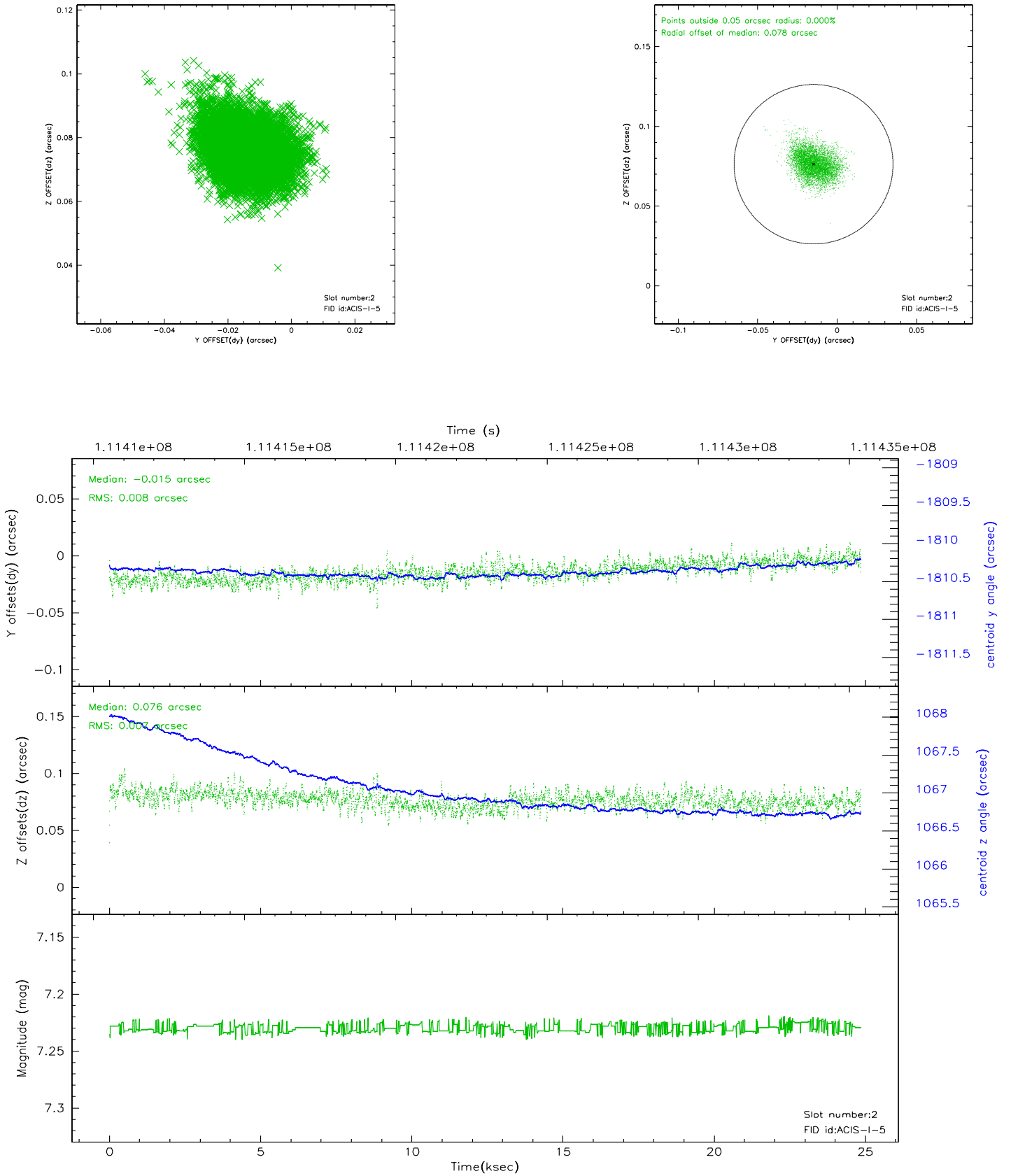
### 2.5.1 Slot 0



## 2.5.2 Slot 1

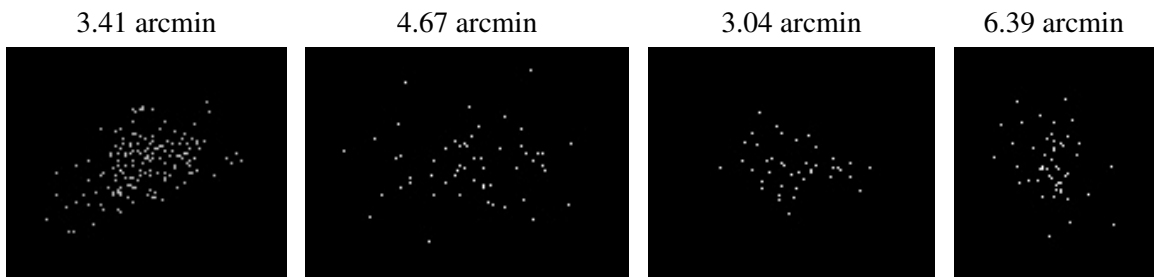


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.85

### A.2 Comments