

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5341 - L2 Version 001  
Chandra X-Ray Center

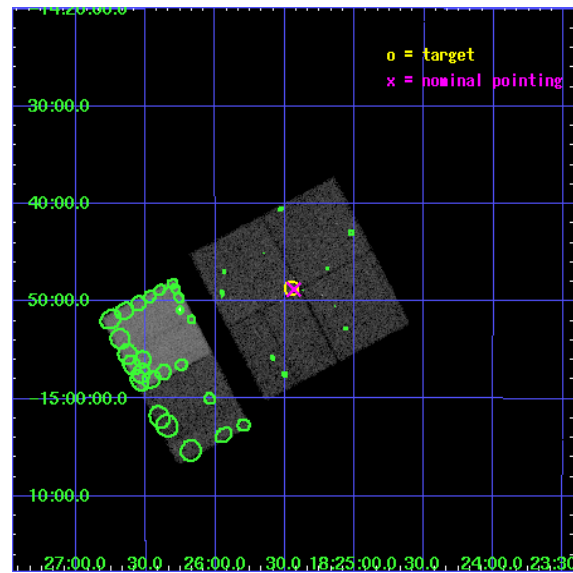
L2 Processing Date : Apr 29 2006

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# 1 Front

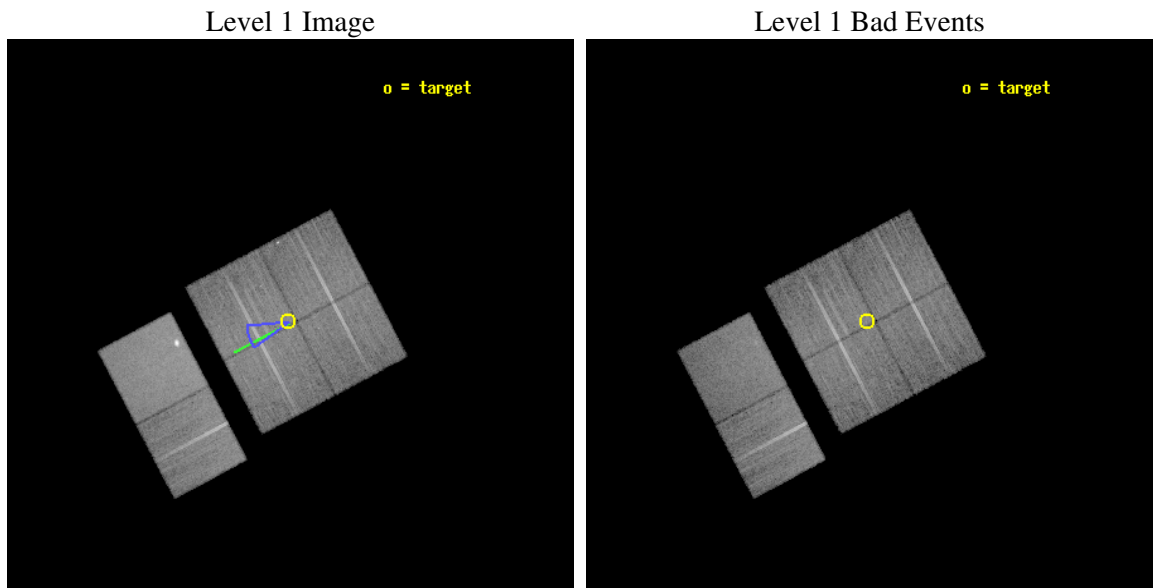
seq_num	500425
obs_id	5341
title	Center-filled Supernova Remnant G16.85-1.05 and its surroundings
observer	Professor Gordon Garmire
object	SNR G16.85-1.05
dtcycle	0
cycle	P
ra_targ	276.3625
dec_targ	-14.810556
ra_nom	276.35876357374
dec_nom	-14.813490505564
roll_nom	242.20772792736
revision	2
ontime	18185.599932253
livetime	17955.322915858
ontime0	18185.599932253
ontime1	18185.599932253
ontime2	18185.599932253
ontime3	18185.599932253
ontime6	18181.176734537
ontime7	18184.458774716
l2events	151735



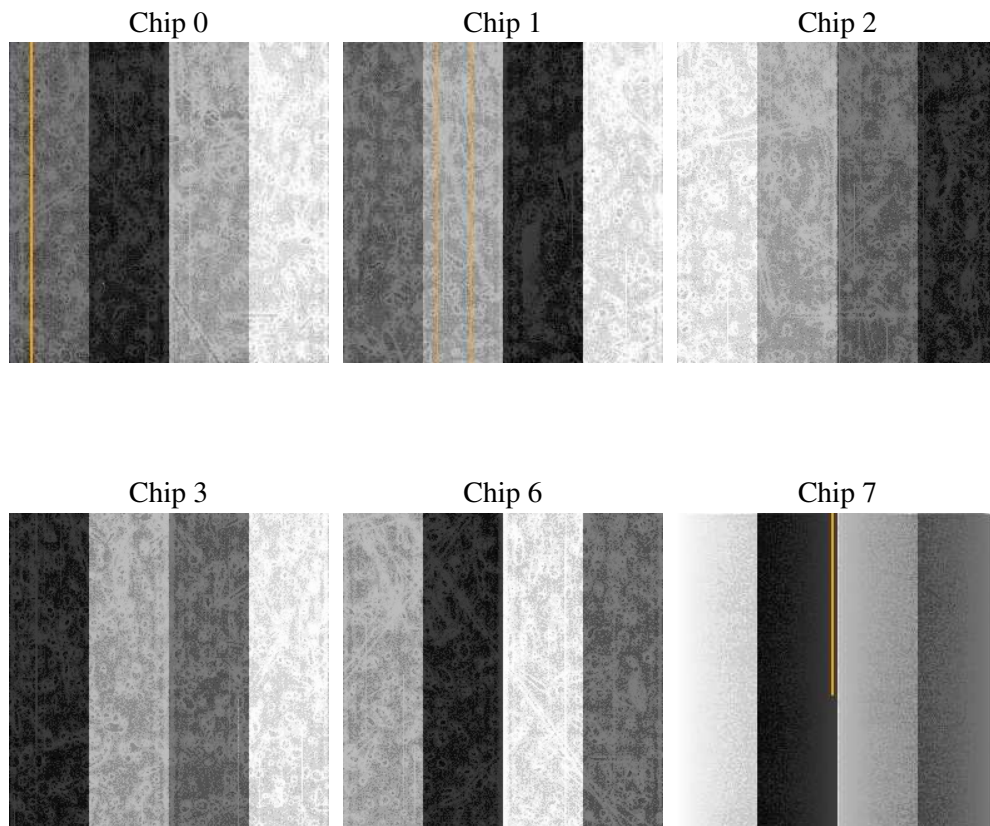
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.2
caldsver	3.2.1
date	2006-04-29T15:54:22
revision	2

sched_exp_time	18000.000000
ontime	18434.843328327
ontime0	18434.843328327
ontime1	18434.843328327
ontime2	18434.843328327
ontime3	18434.843328327
ontime6	18428.361327976
ontime7	18431.602328151
l1events	876986

### 2.1.4 Events

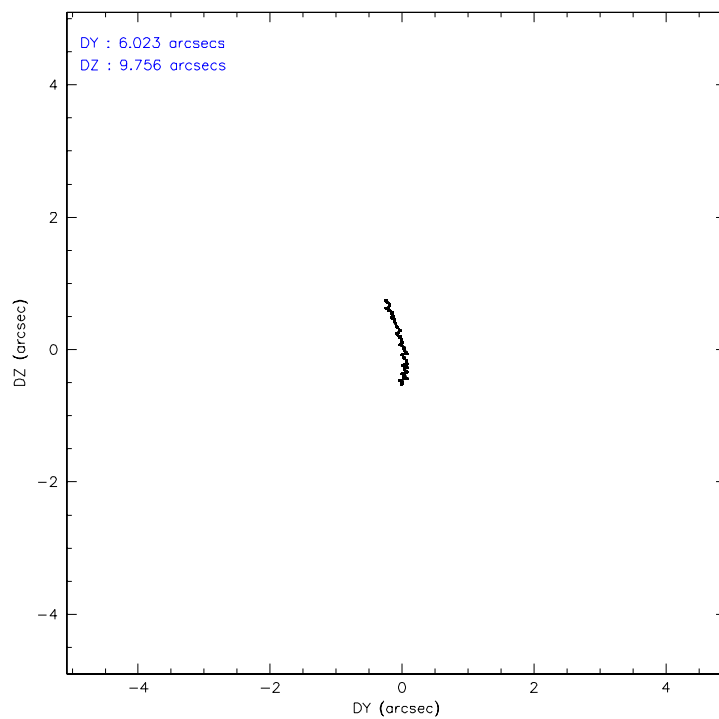
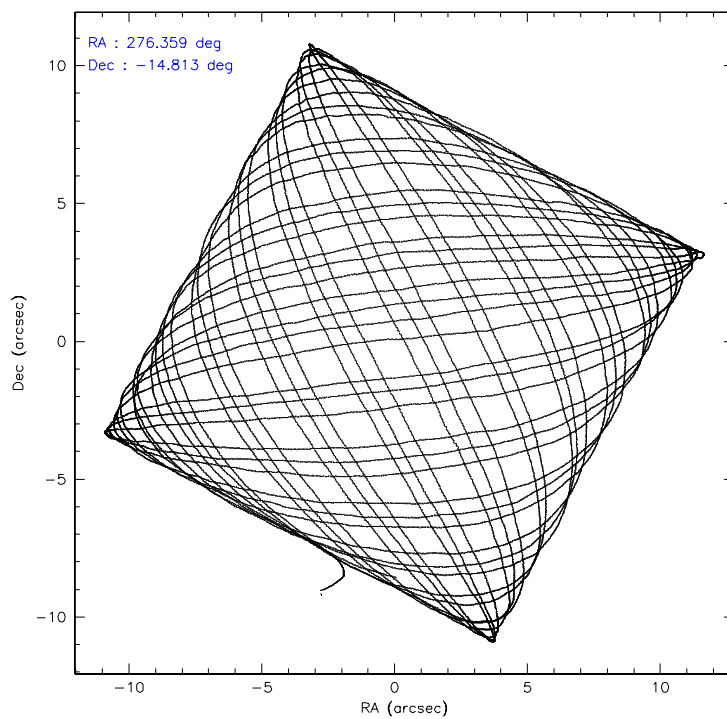
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	127567	131549	136798	140789	145881	194402
rejected events	110249	112961	119882	123523	128304	116957
rejected %	86%	85%	87%	87%	87%	60%

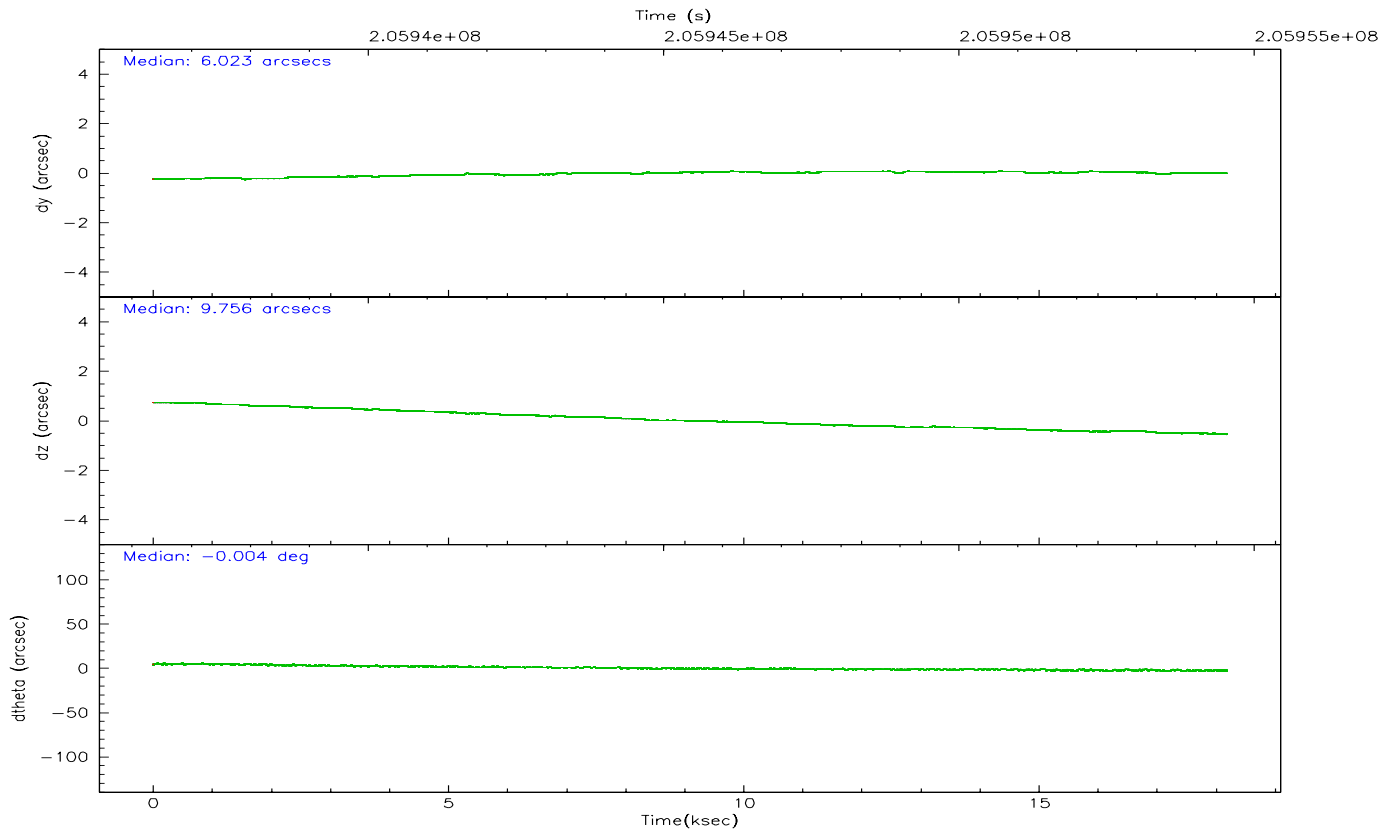
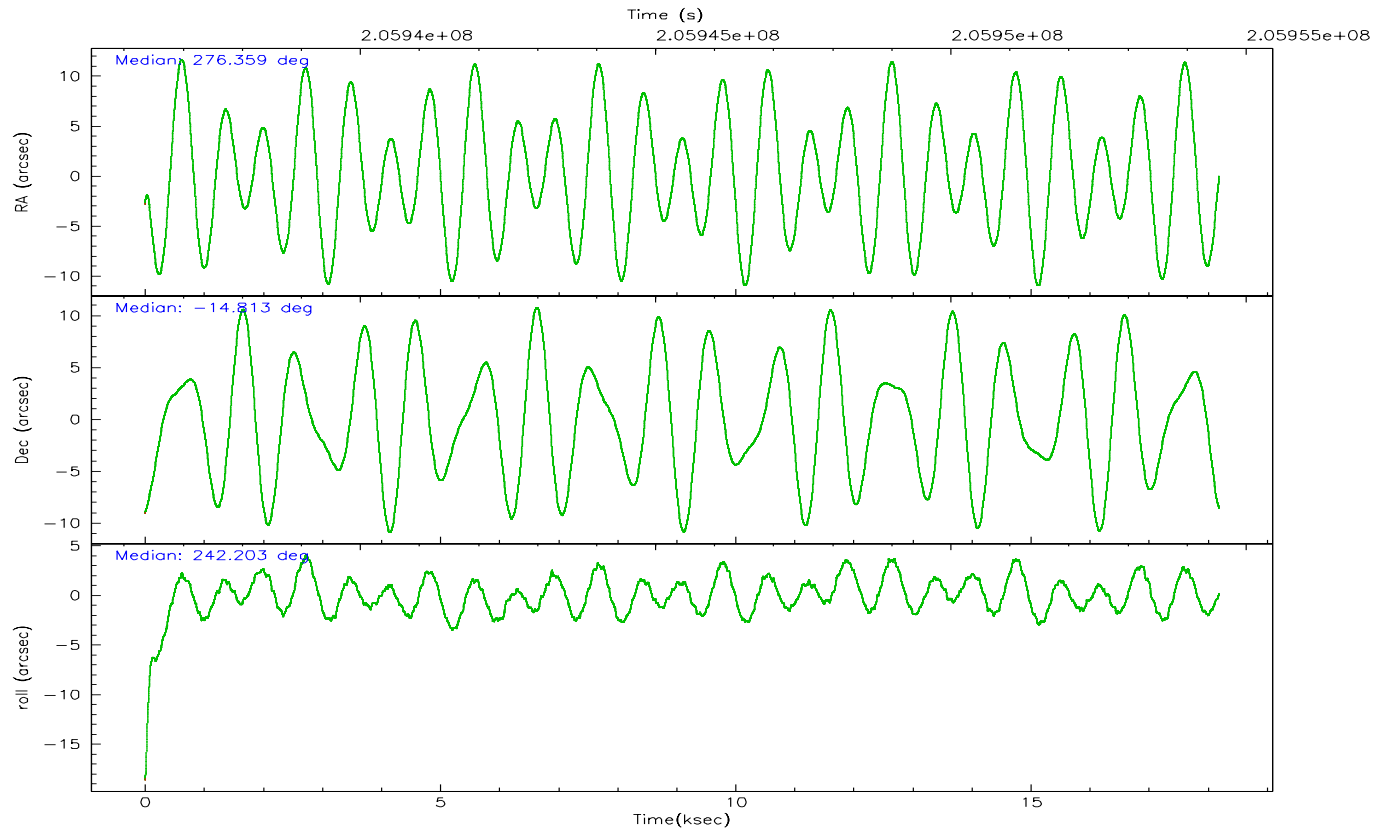
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	7811	8044	7840	8122	7474	5300
	6%	6%	5%	5%	5%	2%
grade 1 events	74	70	96	105	68	112
	0%	0%	0%	0%	0%	0%
grade 2 events	3518	3897	3433	3309	3563	20013
	2%	2%	2%	2%	2%	10%
grade 3 events	1708	1775	1562	1618	1598	4081
	1%	1%	1%	1%	1%	2%
grade 4 events	1607	1660	1542	1583	1635	4230
	1%	1%	1%	1%	1%	2%
grade 5 events	5408	5830	5377	6141	6630	12516
	4%	4%	3%	4%	4%	6%
grade 6 events	2918	3468	2772	2879	3512	44858
	2%	2%	2%	2%	2%	23%
grade 7 events	104523	106805	114176	117032	121401	103292
	81%	81%	83%	83%	83%	53%

## 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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	276.357581	276.3587635737398	Alternating exposures requested	N	N
Pointing Dec	-14.786127	-14.81349050556442	Primary exposure time	0.000000	3.2
Pointing Roll	241.998752	242.2077279273555			
Roll angle	250.000000	250.000000			
Roll tolerance	15.000000	15.000000			
Roll constraint allows 180D rotation	N	N			
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	205936537.184000	205935342.41671			
Observation start date	2004-07-11T12:34:33	2004-07-11T12:15:42			
Observation end time	205954537.184000	205955616.40511			
Observation end date	2004-07-11T17:34:33	2004-07-11T17:53:36			
Read mode	TIMED	TIMED			

## 2.3 Aspect





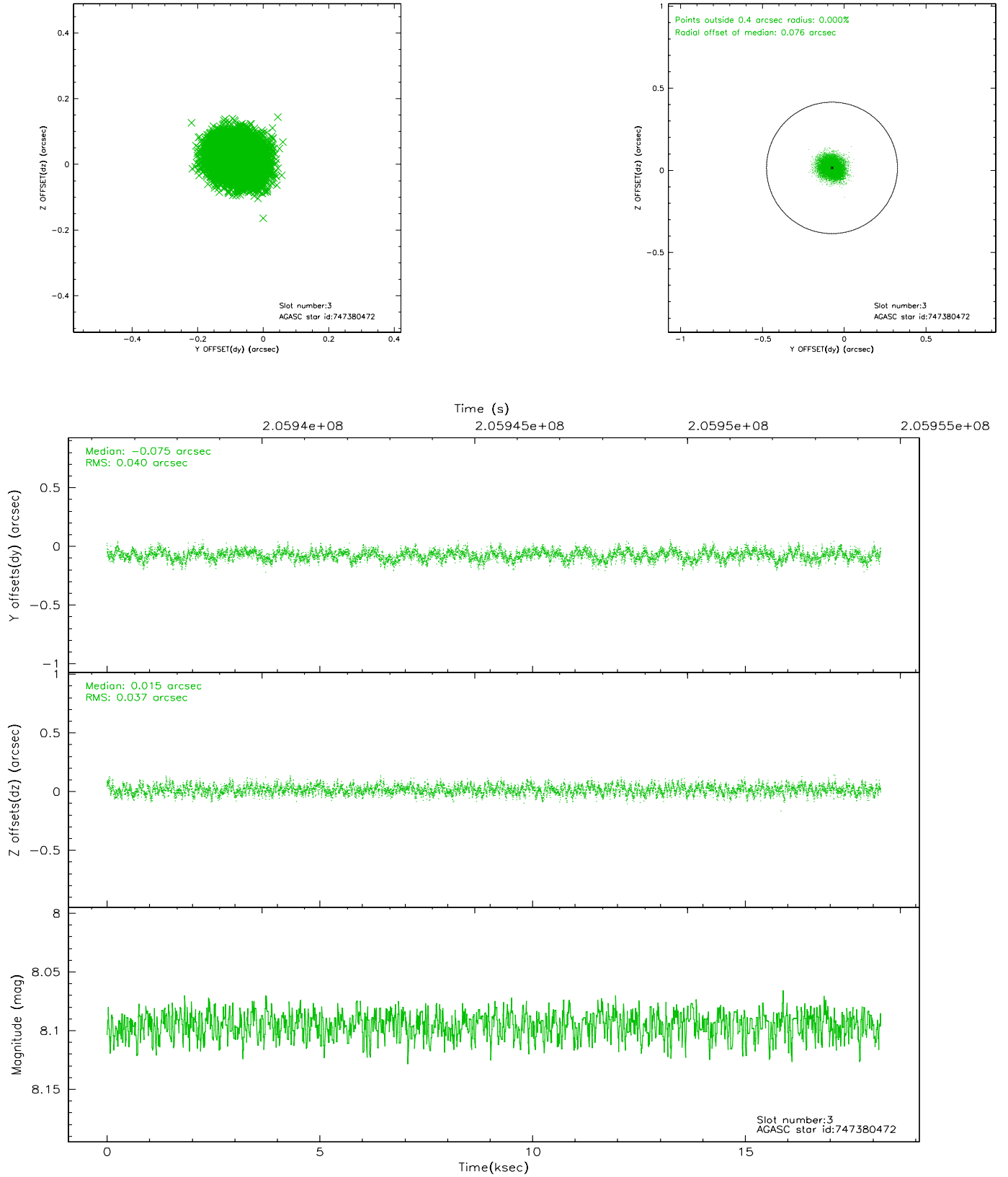
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	4435	0.018	0.014	0.010	0.018	0.000000	0.000000	933.77	-833.23
1	FID	ACIS-I-5	7.22	4437	-0.025	0.078	0.019	0.035	0.000000	0.000000	-1814.33	1064.12
2	FID	ACIS-I-6	7.24	4436	-0.083	-0.022	0.024	0.037	0.000000	0.000000	398.88	1708.85
3	GUIDE	747380472	8.09	8873	-0.075	0.015	0.059	0.093	276.808218	-14.697222	-1017.98	1236.07
4	GUIDE	747394680	7.42	8811	-0.060	-0.013	0.062	0.094	276.275759	-14.649373	-300.87	-482.54
5	GUIDE	821297448	7.46	8874	-0.030	-0.130	0.053	0.086	276.406695	-15.152775	1085.34	770.46
6	GUIDE	821318160	7.74	8865	0.102	0.111	0.053	0.090	276.598709	-15.630197	2291.13	2165.60
7	GUIDE	747380456	8.61	8870	0.061	0.018	0.055	0.089	276.136187	-14.775528	329.00	-697.74

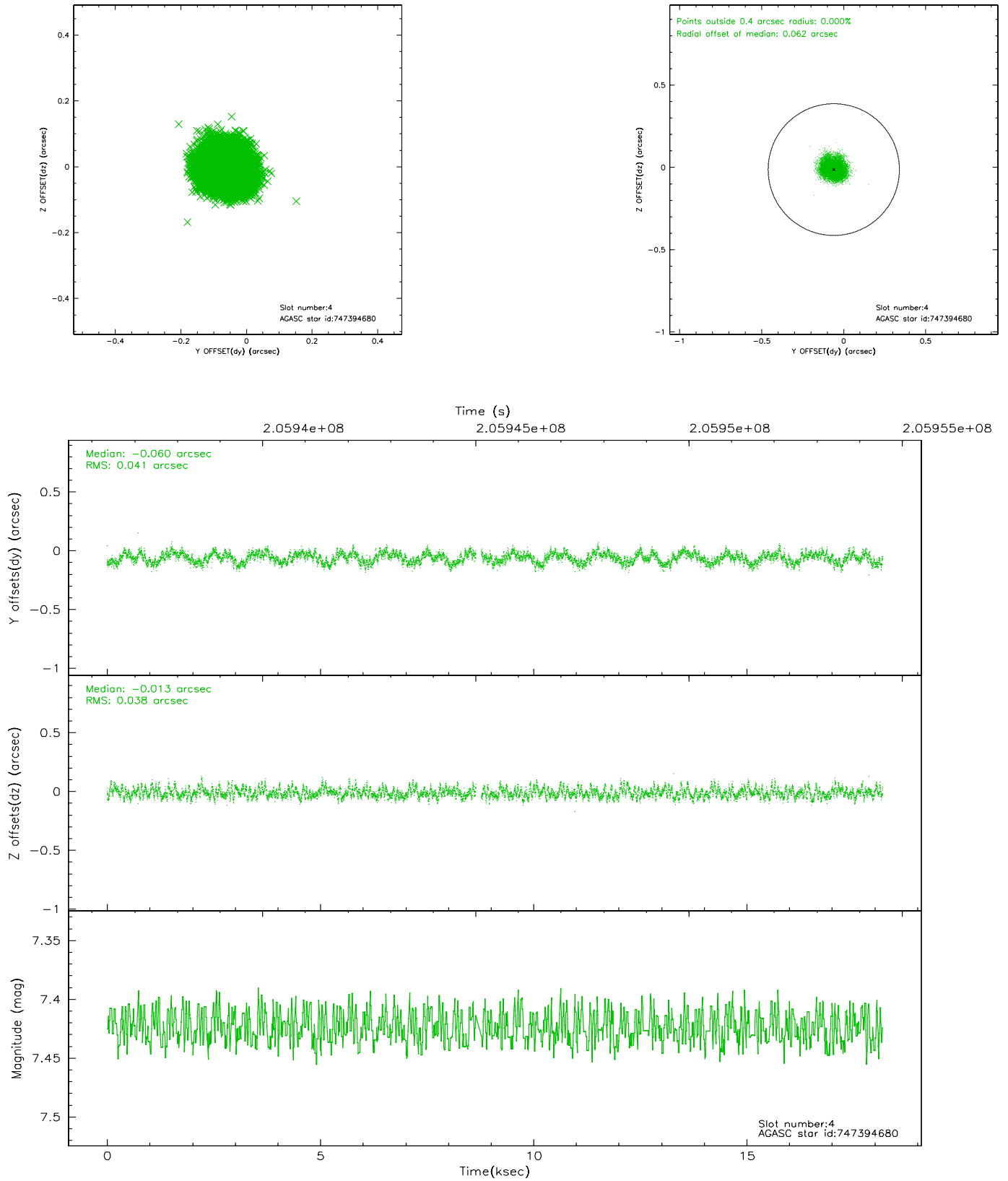


## 2.4 Star Slots

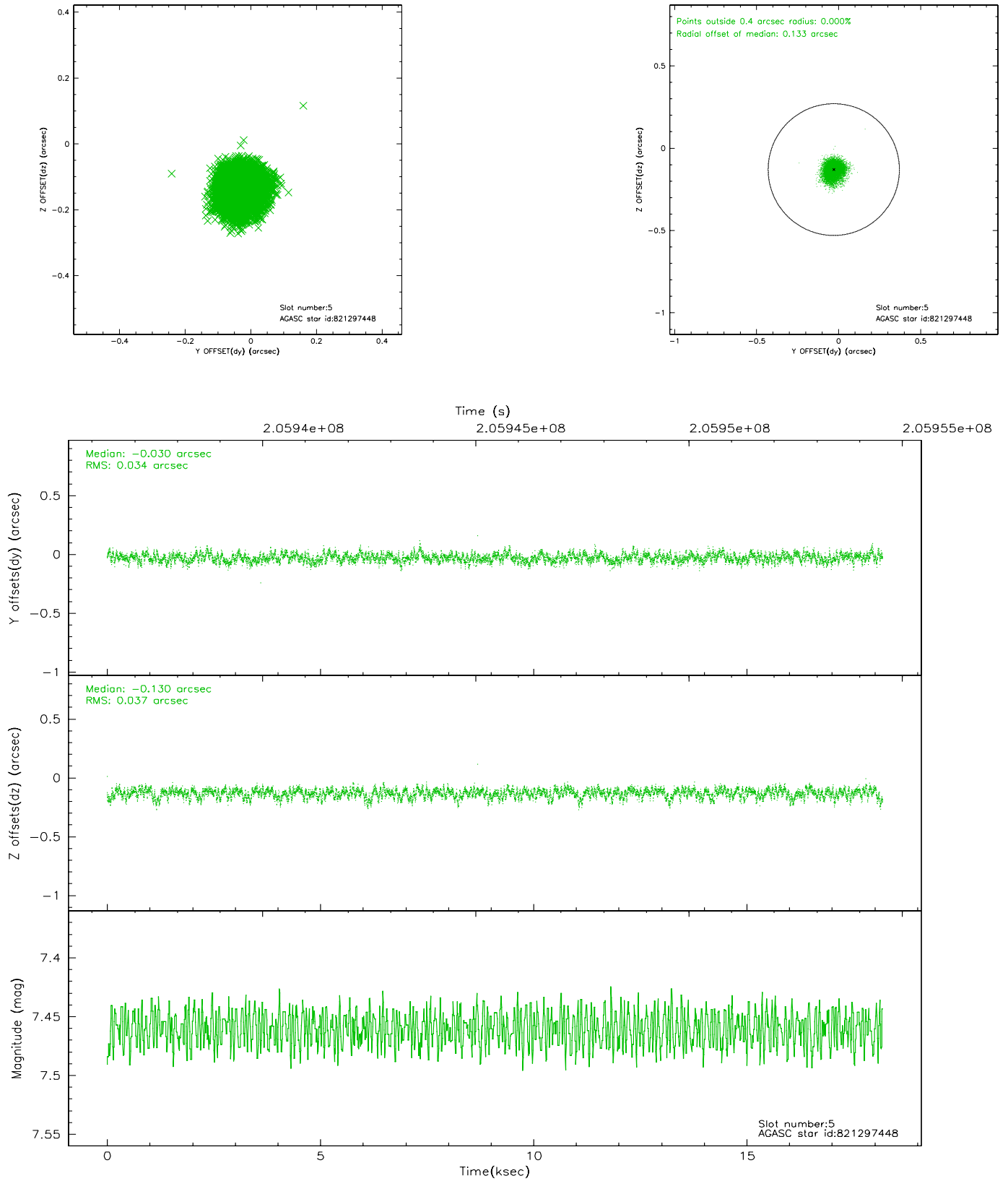
### 2.4.1 Slot 3



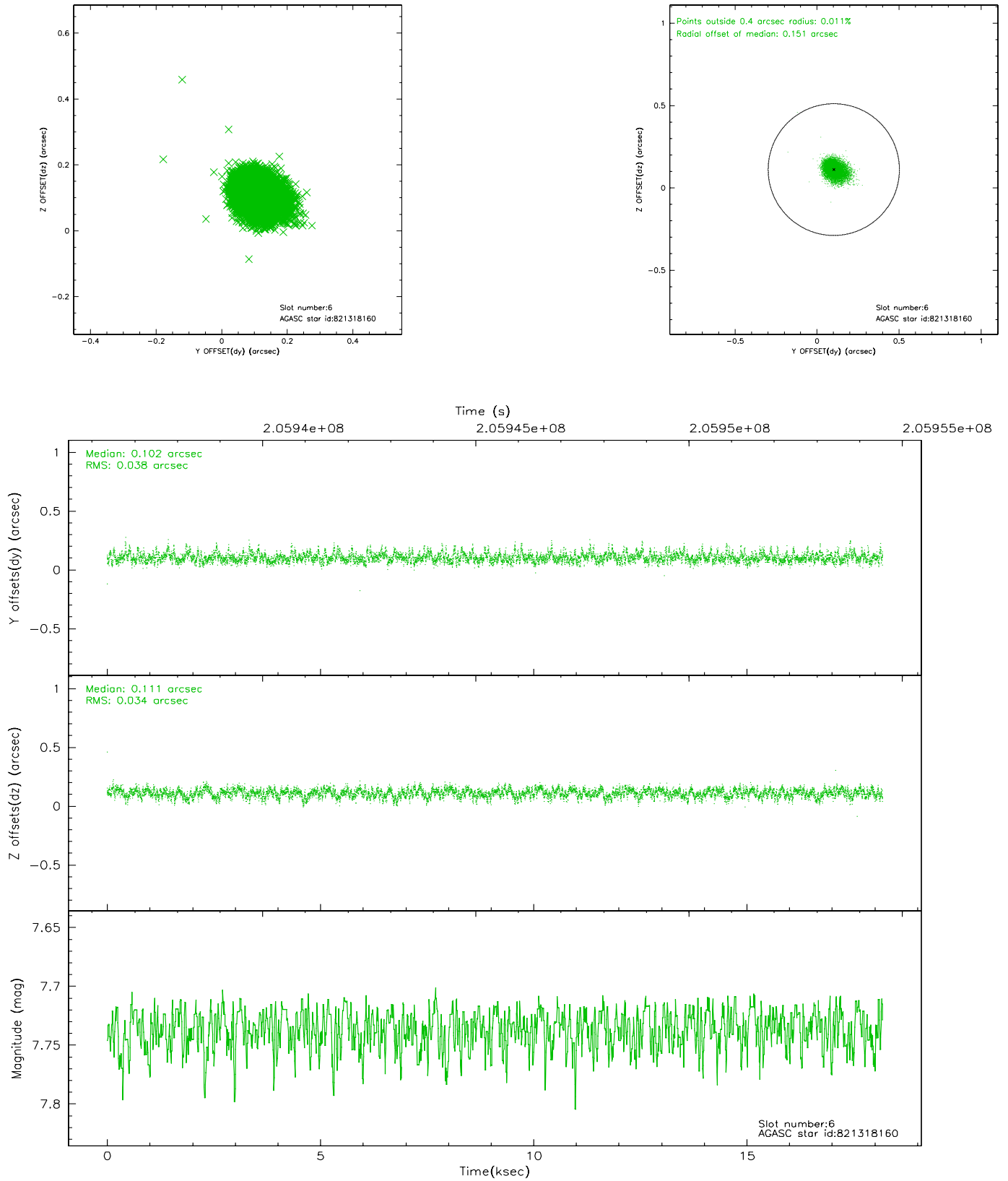
## 2.4.2 Slot 4



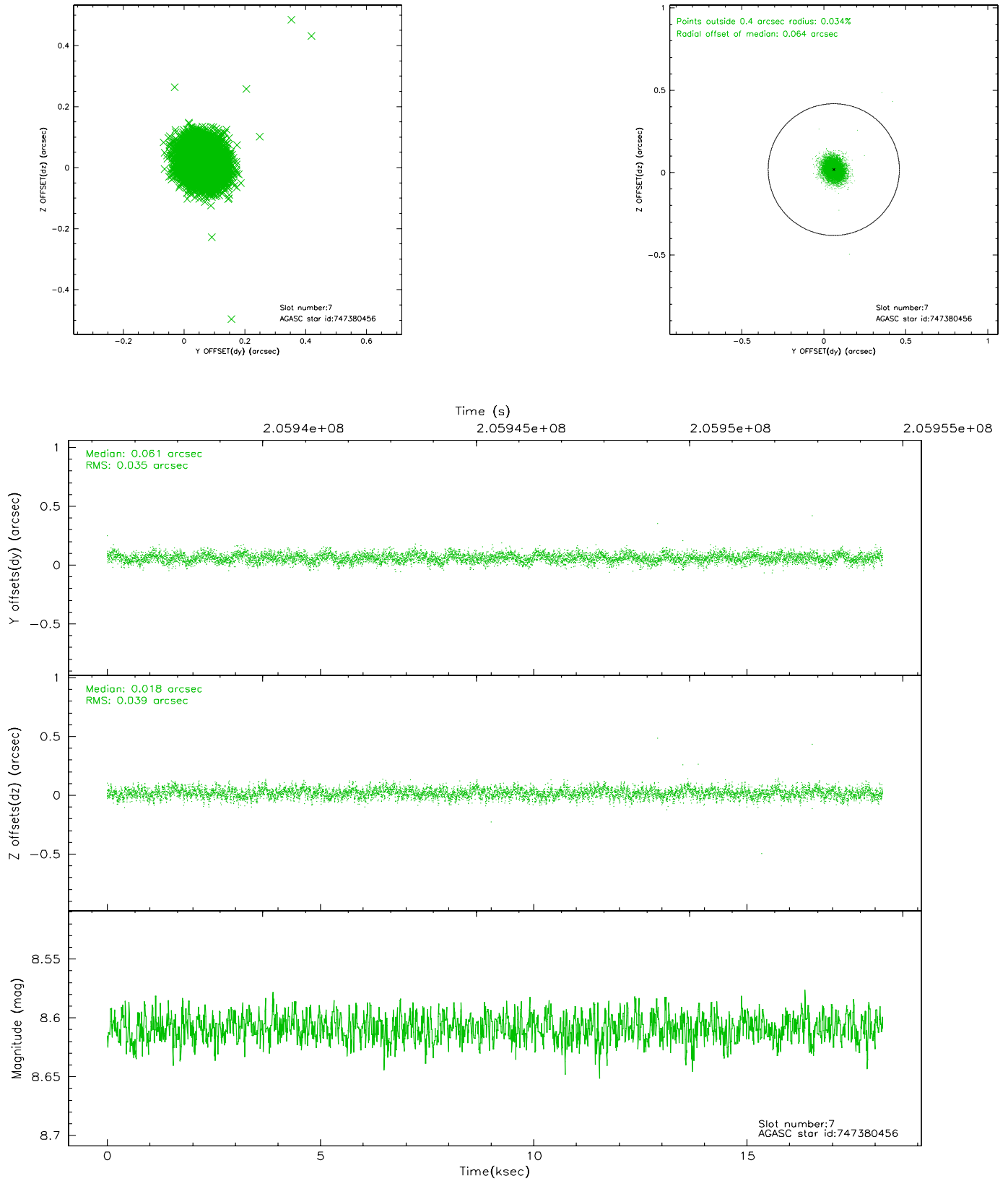
### 2.4.3 Slot 5



## 2.4.4 Slot 6

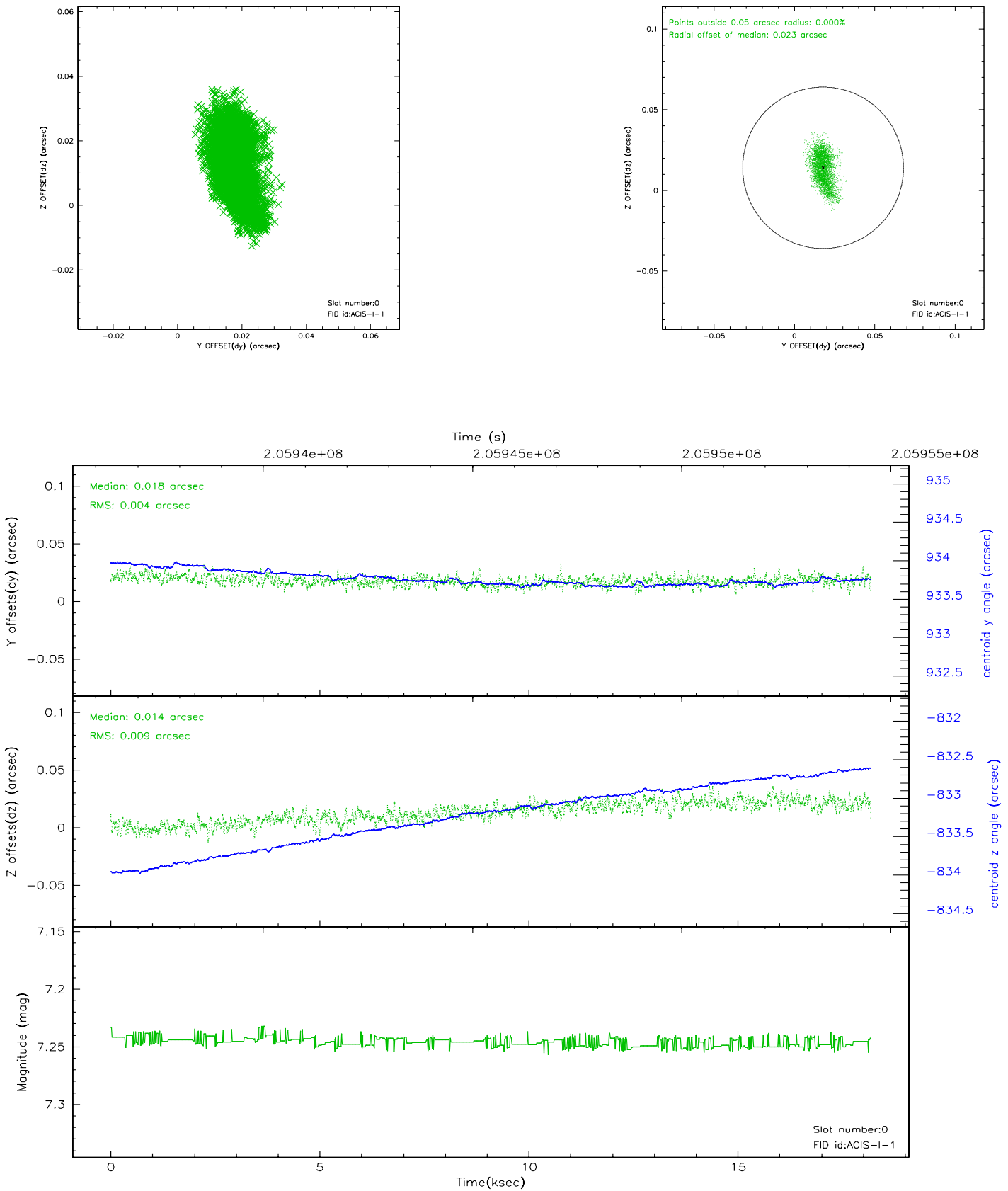


## 2.4.5 Slot 7

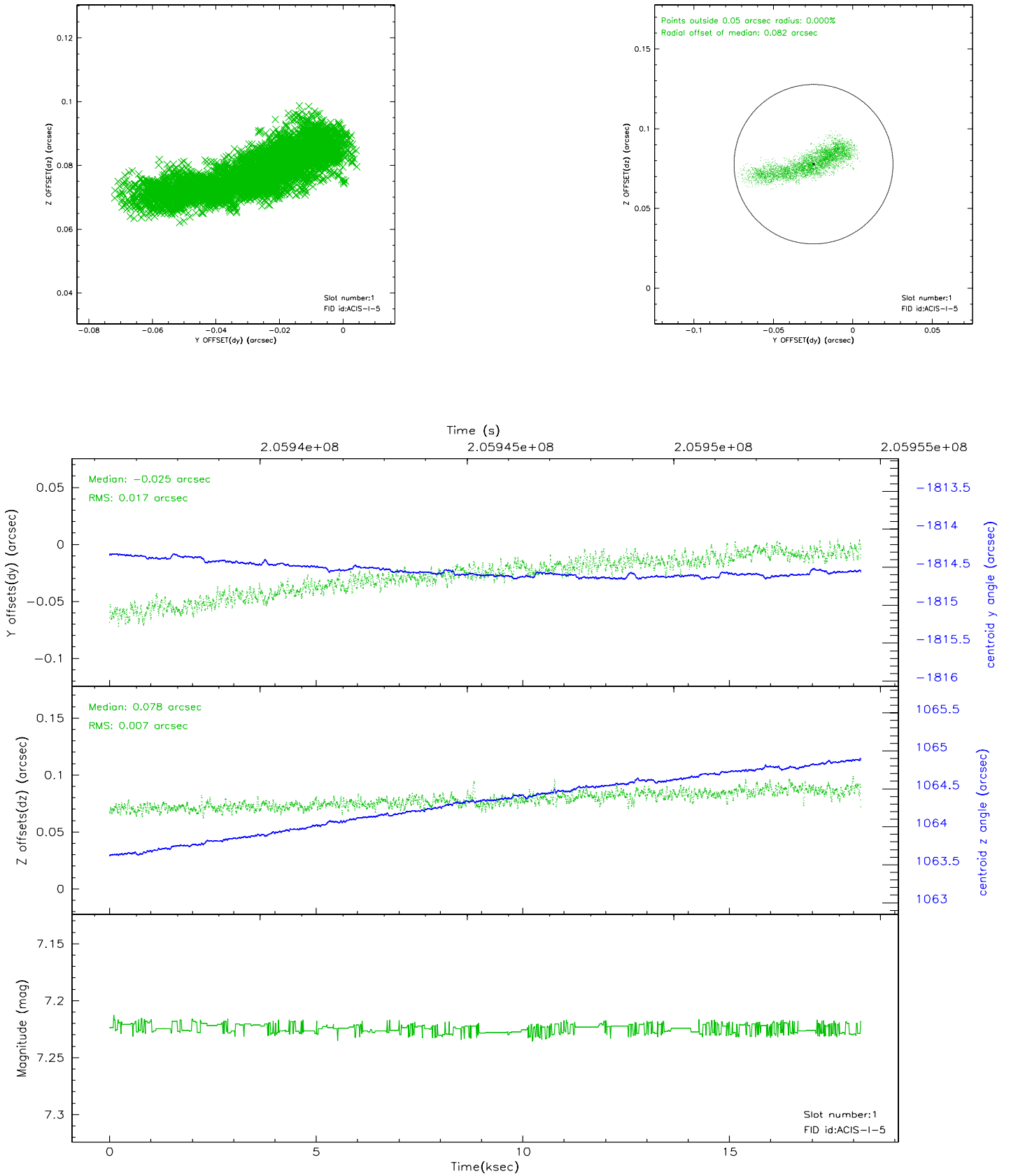


## 2.5 FID Slots

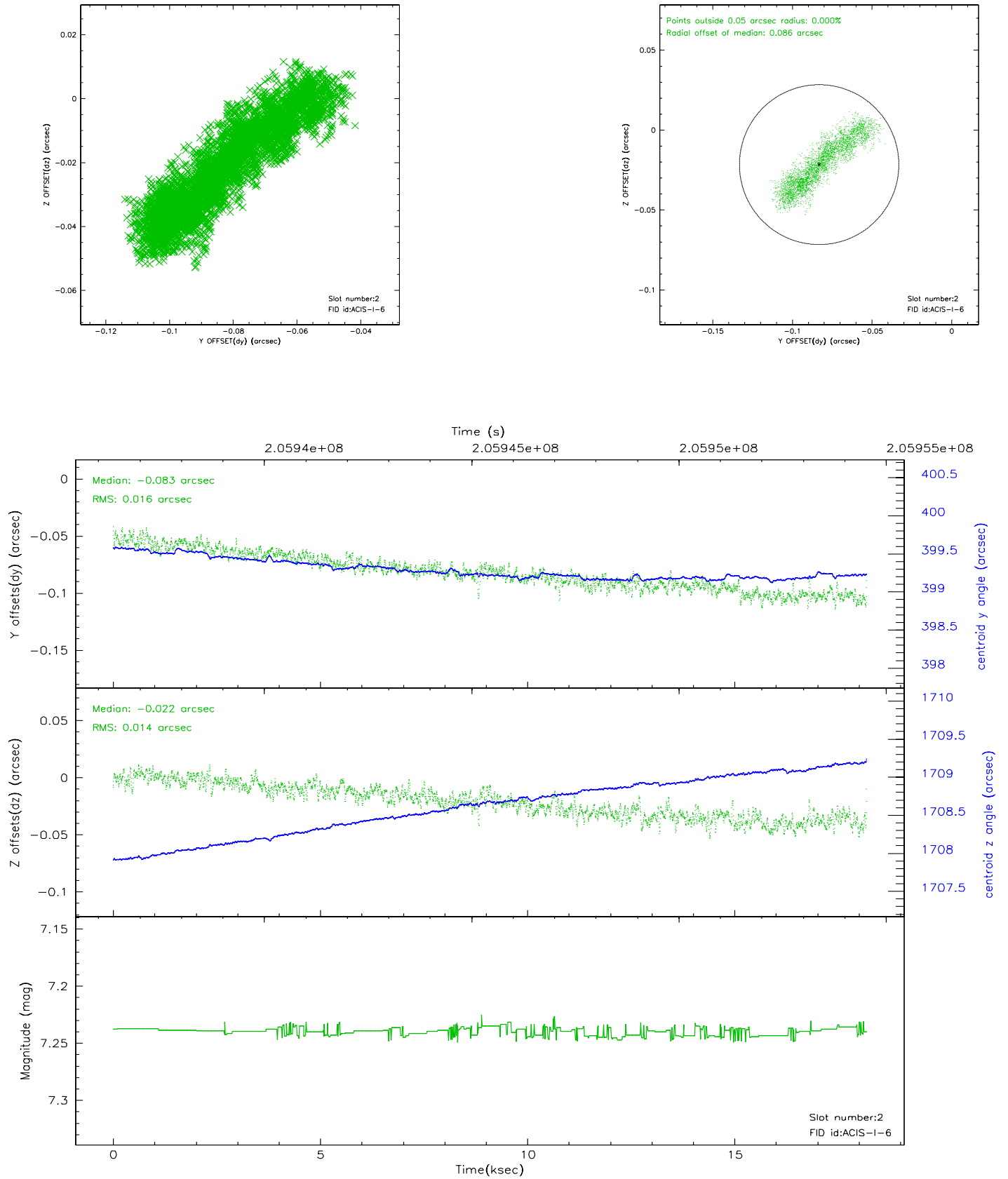
### 2.5.1 Slot 0



## 2.5.2 Slot 1

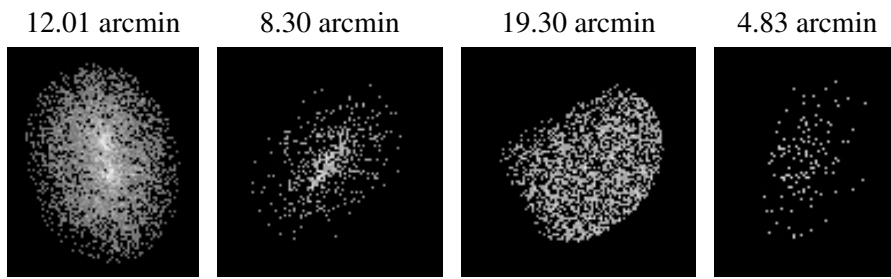


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.185

### A.2 Comments

Roll constraint met.