

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5424 - L2 Version 002  
Chandra X-Ray Center

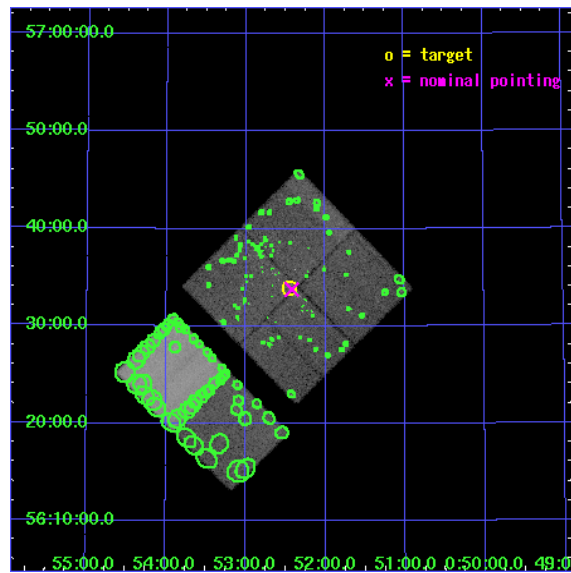
L2 Processing Date : Apr 5 2006

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# 1 Front

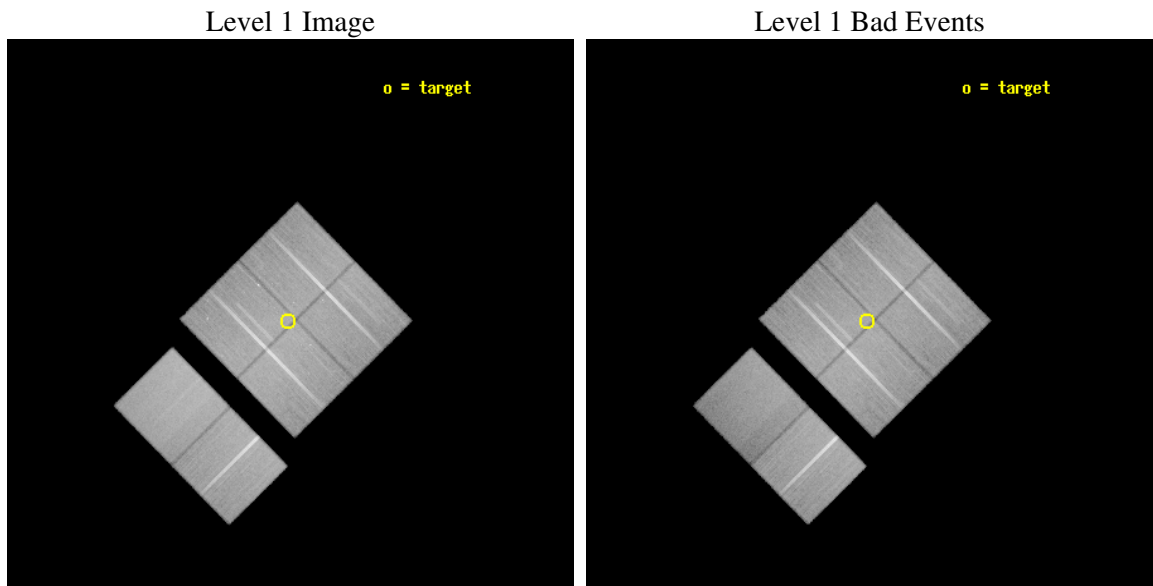
seq_num	200357
obs_id	5424
title	The power within the PacMan Nebula: Triggered Star Formation in NGC 281
observer	Dr. Scott Wolk
object	NGC 281
dtcycle	0
cycle	P
ra_targ	13.112917
dec_targ	56.565
ra_nom	13.105164791194
dec_nom	56.563229683289
roll_nom	225.51516232762
revision	2
ontime	62658.994755328
livetime	61865.568835019
ontime0	62671.95878613
ontime1	62671.958776236
ontime2	62655.753854573
ontime3	62658.994755328
ontime6	62675.199766517
ontime7	62675.199766517
l2events	366075



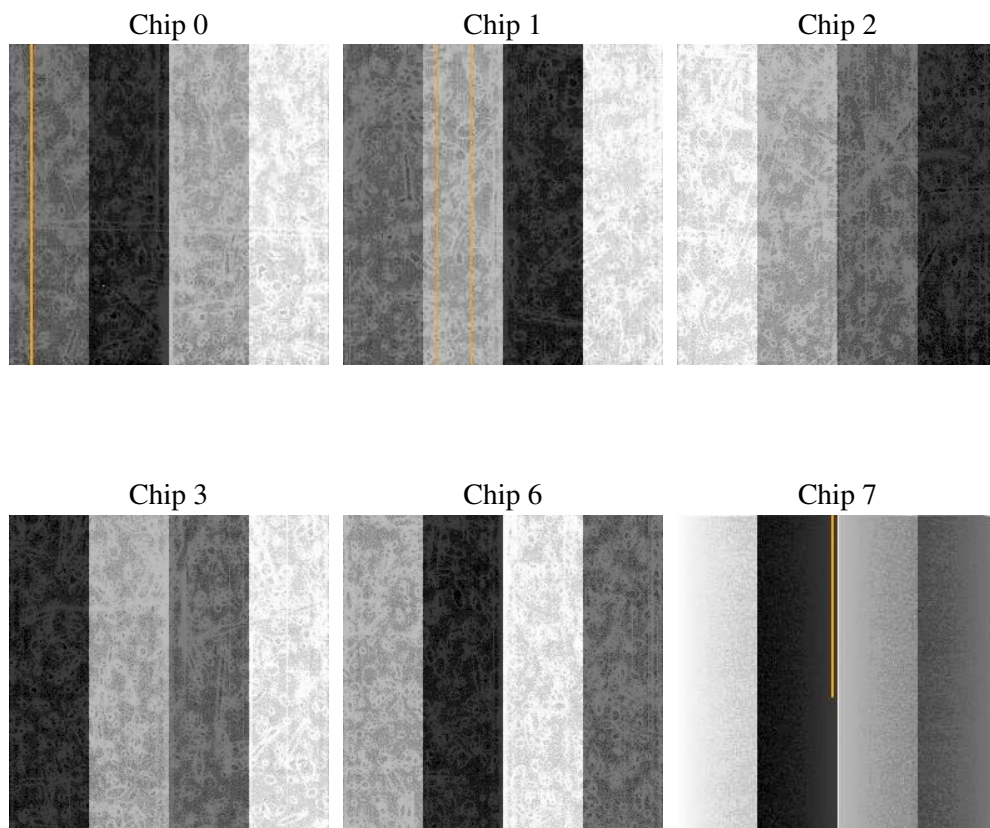
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-04-04T23:42:22
revision	2

sched_exp_time	62533.802000
ontime	62778.453227371
ontime0	62791.417258173
ontime1	62791.417248279
ontime2	62775.212316722
ontime3	62778.453227371
ontime6	62794.658228666
ontime7	62794.65823856
l1events	2556605

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	396048	394664	444284	421957	436558	463094
rejected events	356028	347006	403062	378271	393949	272428
rejected %	89%	87%	90%	89%	90%	58%

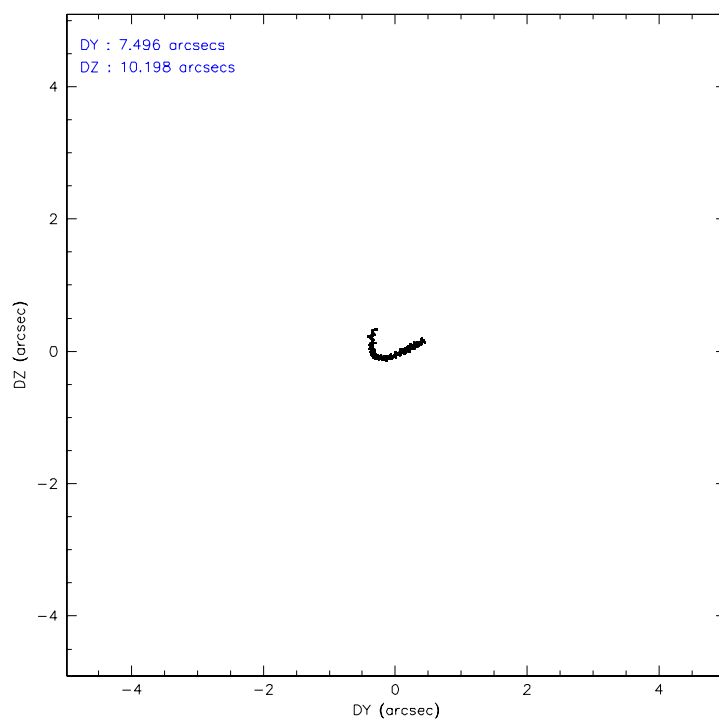
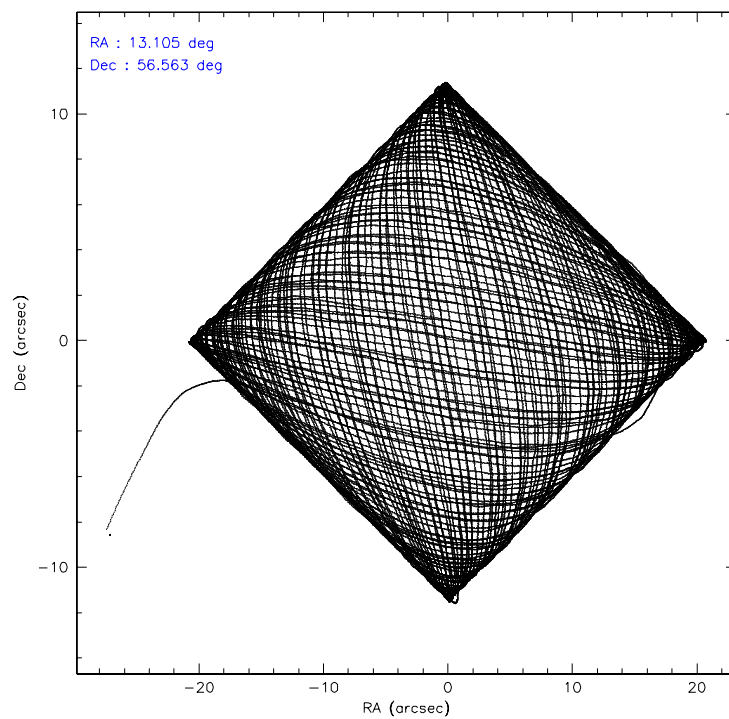
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	13857	17893	15514	17793	14262	9763
	3%	4%	3%	4%	3%	2%
grade 1 events	199	201	245	238	221	241
	0%	0%	0%	0%	0%	0%
grade 2 events	9391	10246	9369	8862	9322	47460
	2%	2%	2%	2%	2%	10%
grade 3 events	4691	5169	4323	4624	4778	10374
	1%	1%	0%	1%	1%	2%
grade 4 events	4456	5082	4672	4557	4787	9898
	1%	1%	1%	1%	1%	2%
grade 5 events	13966	15488	13397	16506	16485	33840
	3%	3%	3%	3%	3%	7%
grade 6 events	7716	9362	7431	7936	9553	113517
	1%	2%	1%	1%	2%	24%
grade 7 events	341772	331223	389333	361441	377150	238001
	86%	83%	87%	85%	86%	51%

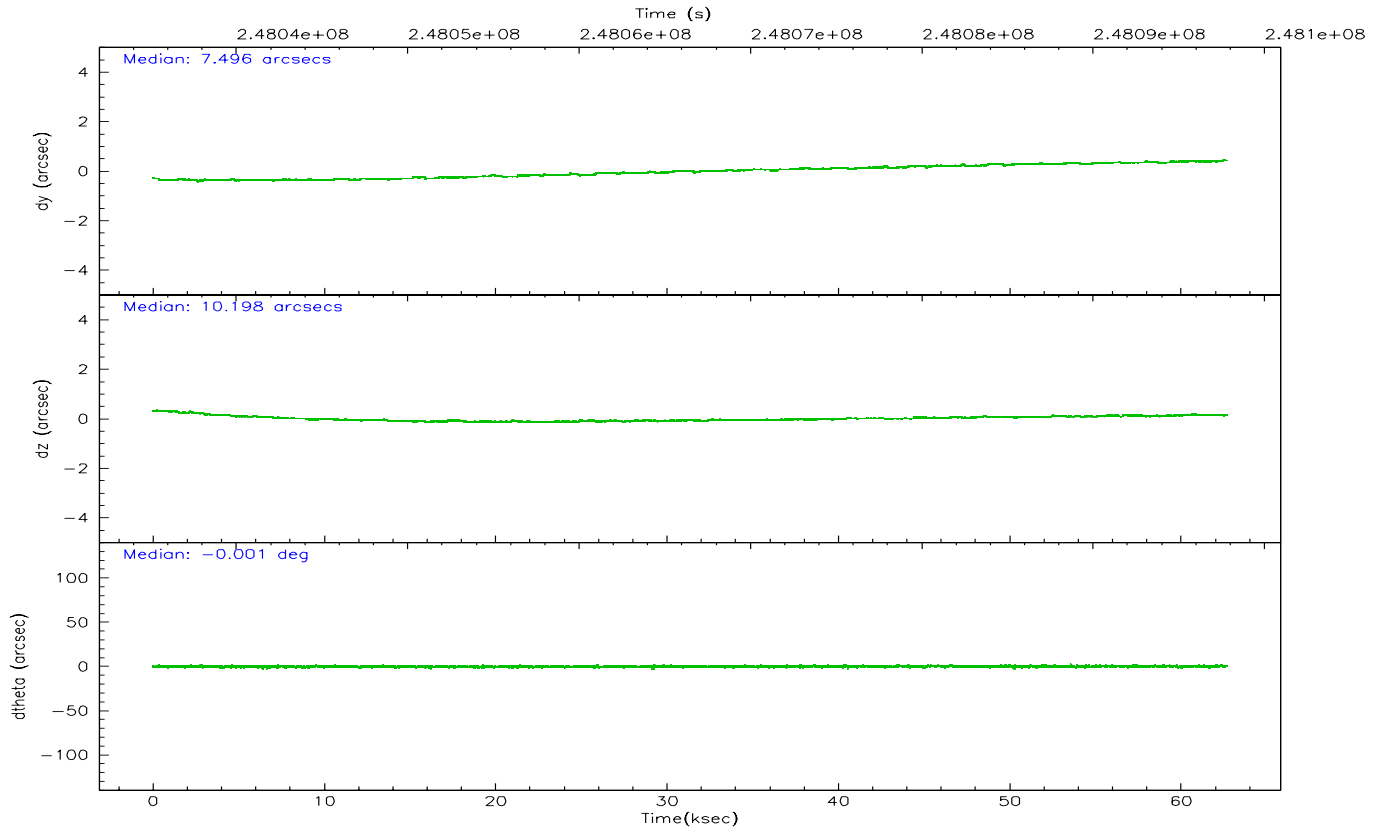
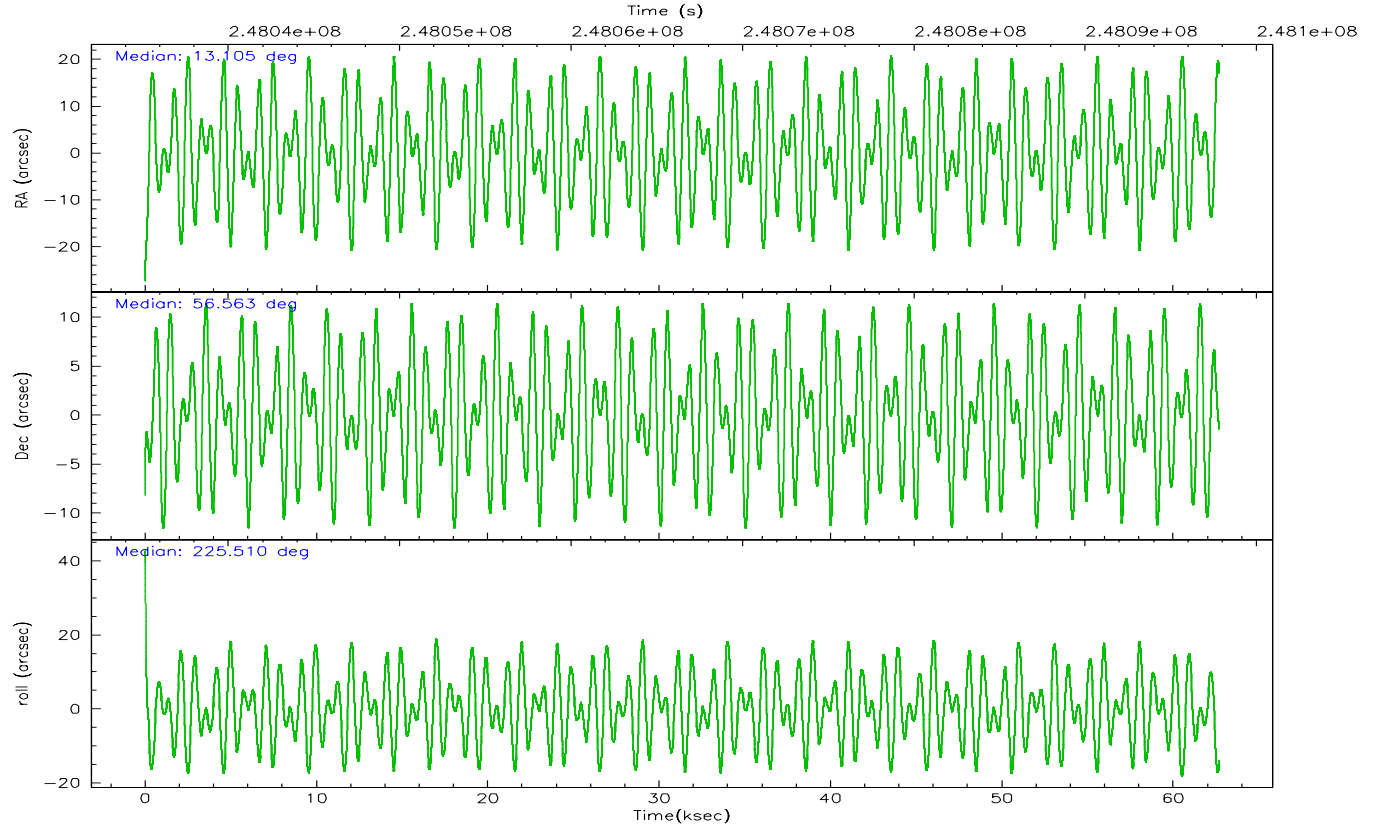


## 2.2 Compared Parameters

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	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	13.117383	13.10516479119386	Alternating exposures requested	N	N
Pointing Dec	56.589758	56.56322968328931	Primary exposure time	0.000000	3.2
Pointing Roll	225.296276	225.5151623276163			
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	248035289.184000	248034031.06128			
Observation start date	2005-11-10T18:40:25	2005-11-10T18:20:31			
Observation end time	248097822.184000	248098061.78923			
Observation end date	2005-11-11T12:02:38	2005-11-11T12:07:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect



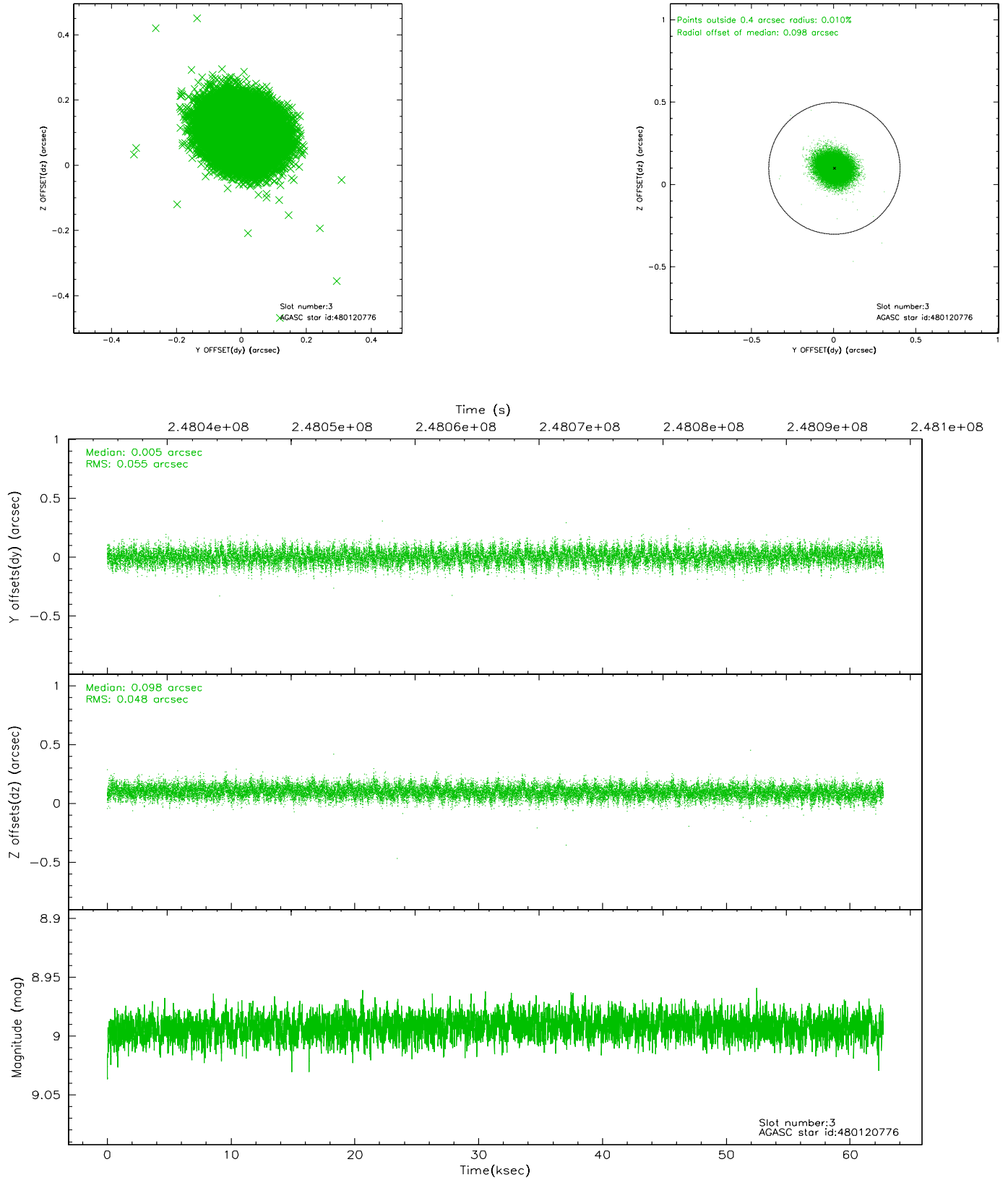


### Slot Statistics

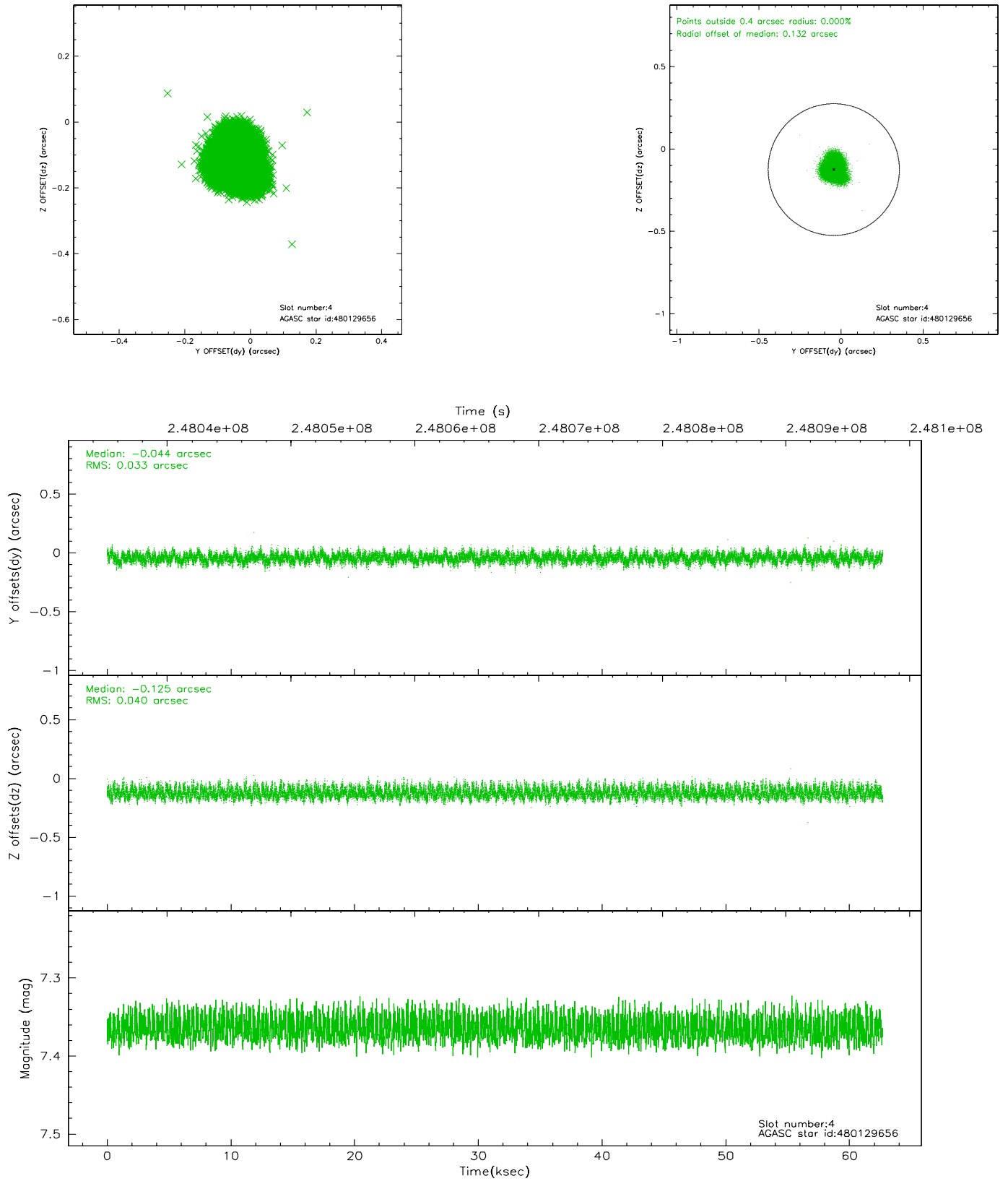
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-4	7.18	15288	0.105	0.018	0.021	0.034	0.000000	0.000000	2152.26	1066.19
1	FID	ACIS-I-5	7.23	15288	-0.195	0.018	0.021	0.031	0.000000	0.000000	-1816.05	1063.98
2	FID	ACIS-I-6	7.26	15286	-0.010	0.031	0.009	0.016	0.000000	0.000000	397.79	1708.30
3	GUIDE	480120776	8.99	30558	0.005	0.098	0.078	0.125	11.785837	56.559271	1918.43	-1817.92
4	GUIDE	480129656	7.36	30575	-0.044	-0.125	0.056	0.089	13.070380	56.264365	898.85	757.36
5	GUIDE	480136328	7.71	30571	0.007	0.018	0.066	0.102	13.273425	57.219156	-1824.22	-1377.92
6	GUIDE	481821576	7.92	30570	0.008	0.020	0.057	0.090	13.802183	56.483052	-689.33	1232.98
7	GUIDE	479609704	8.42	30566	0.024	-0.012	0.077	0.120	13.331651	55.769395	1793.51	2385.77

## 2.4 Star Slots

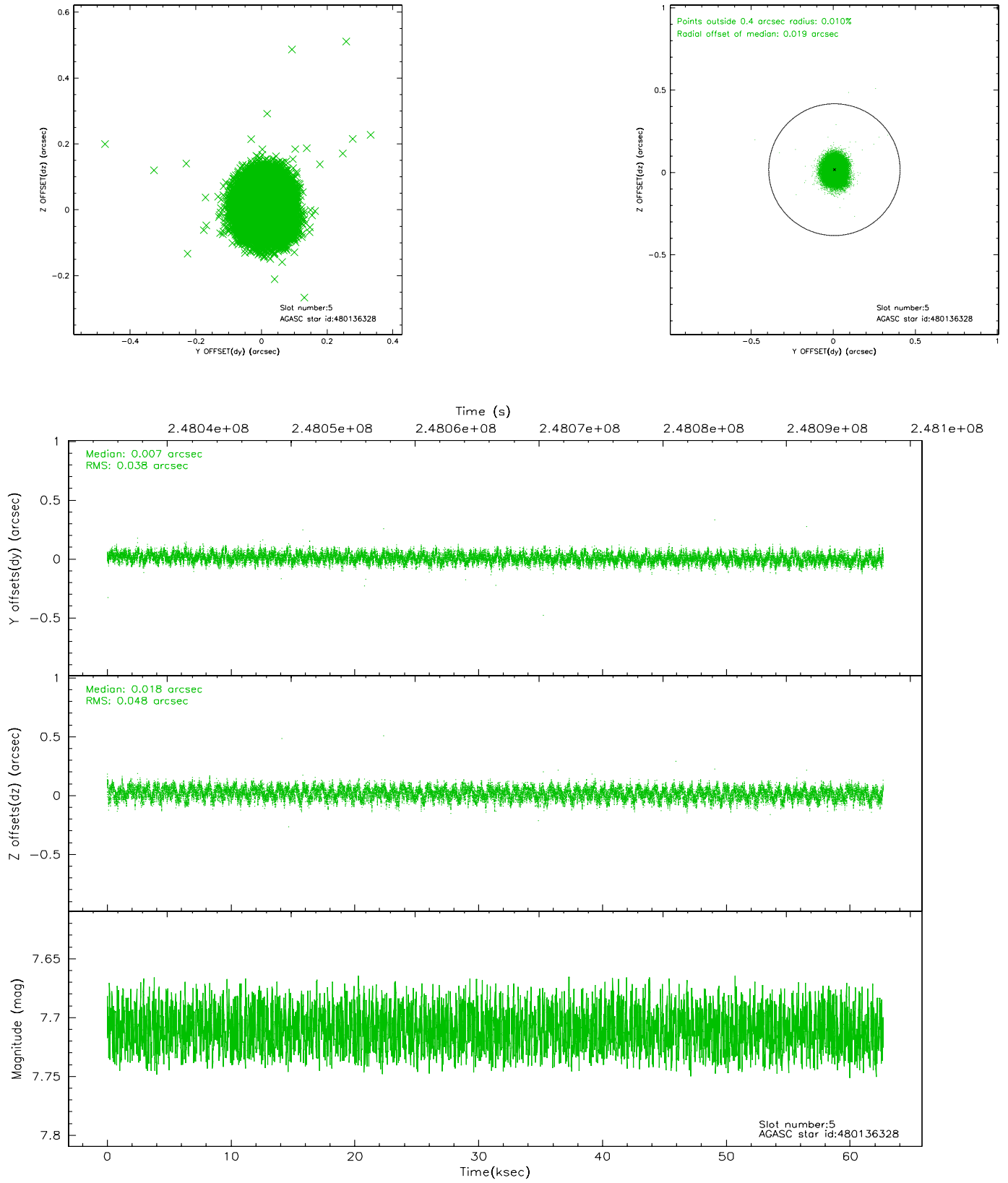
### 2.4.1 Slot 3



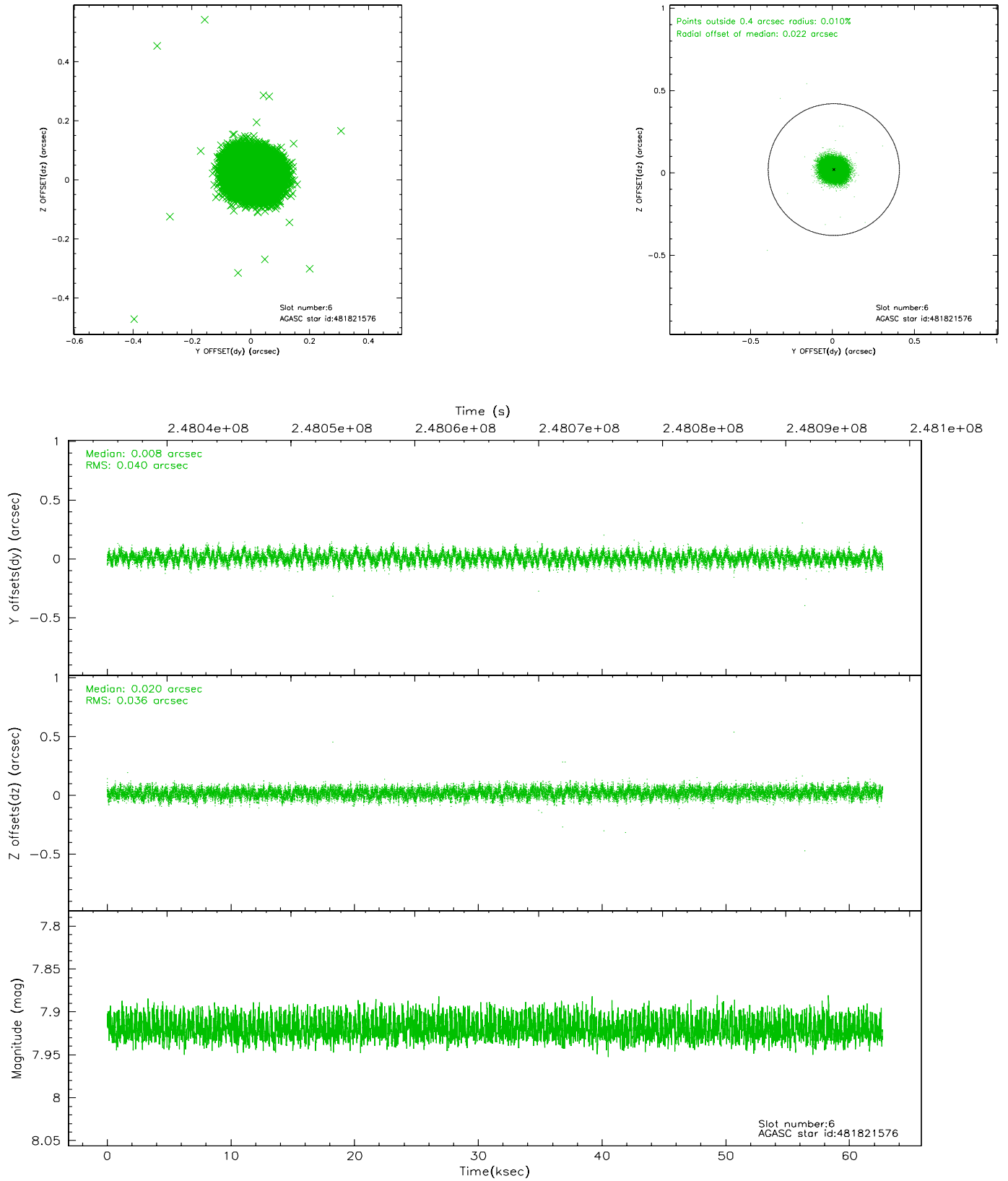
## 2.4.2 Slot 4



### 2.4.3 Slot 5

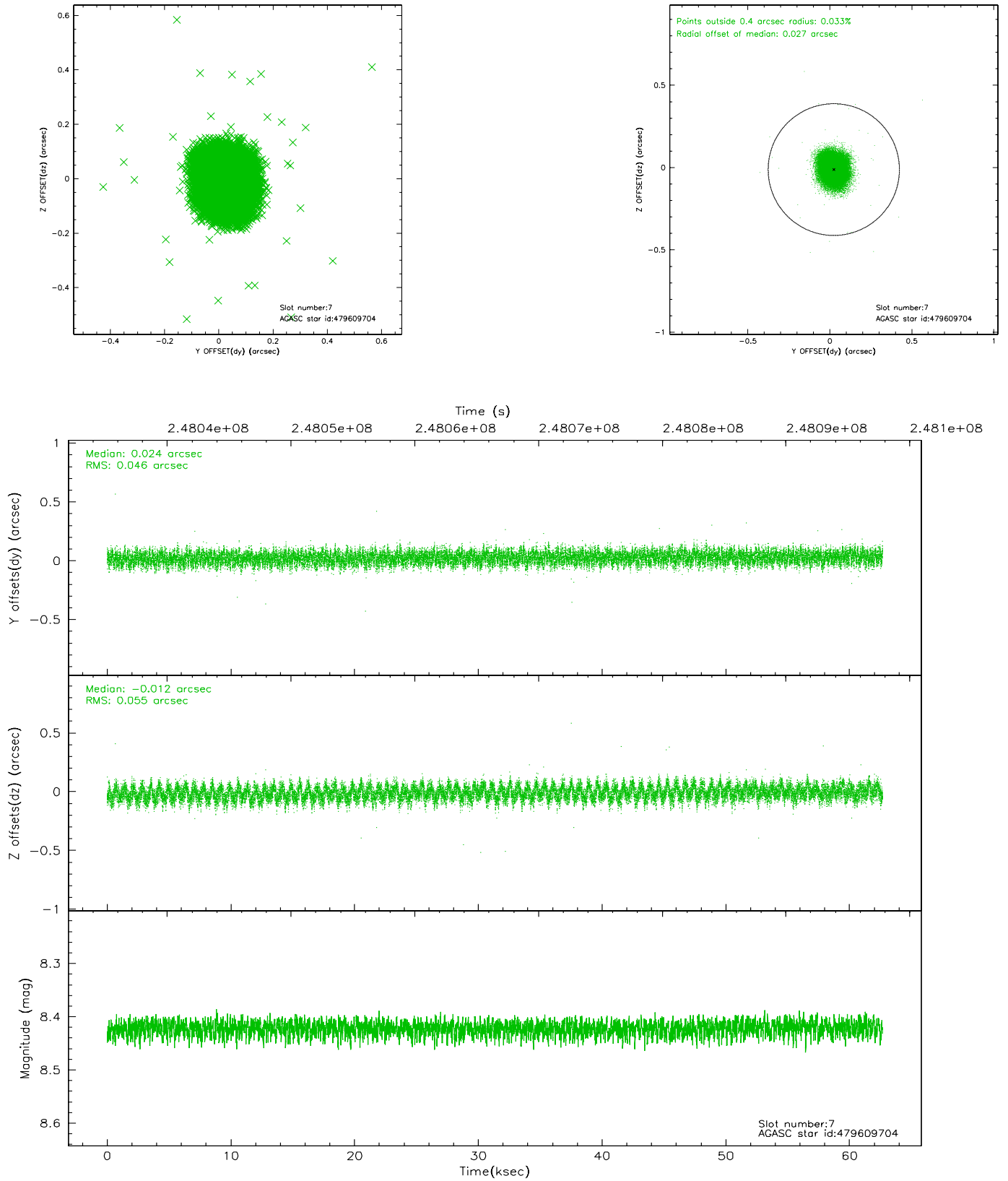


## 2.4.4 Slot 6



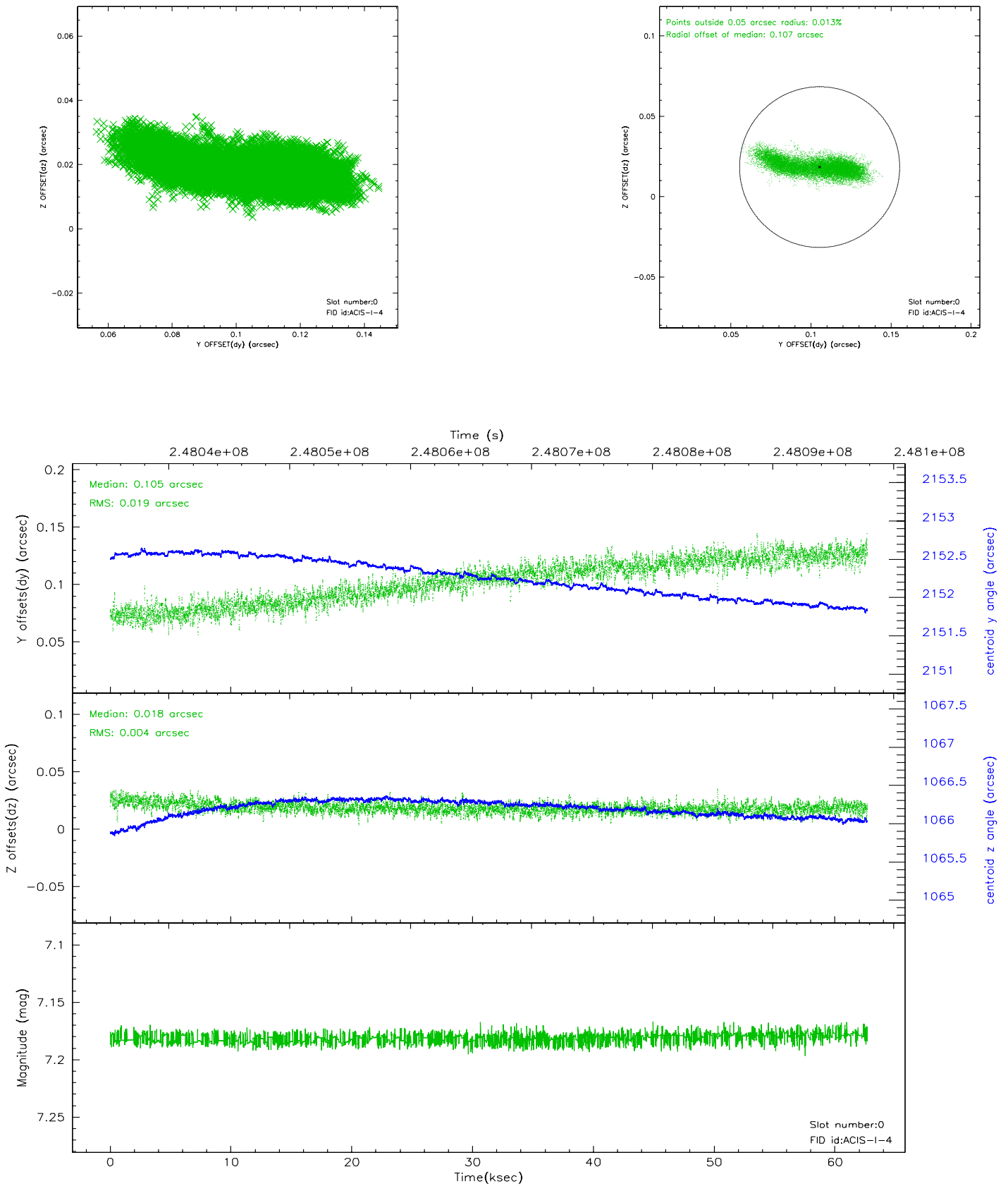


## 2.4.5 Slot 7

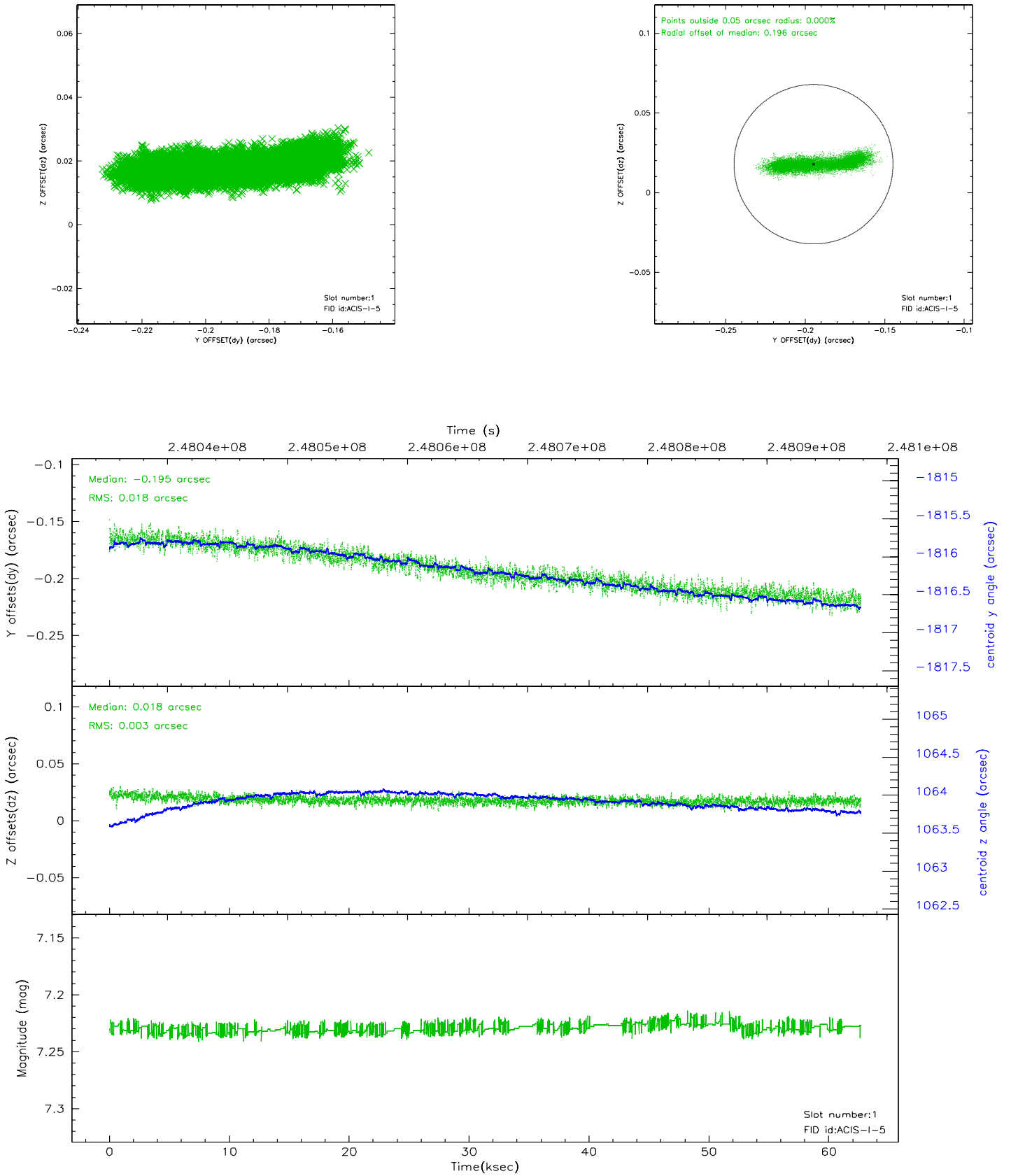


## 2.5 FID Slots

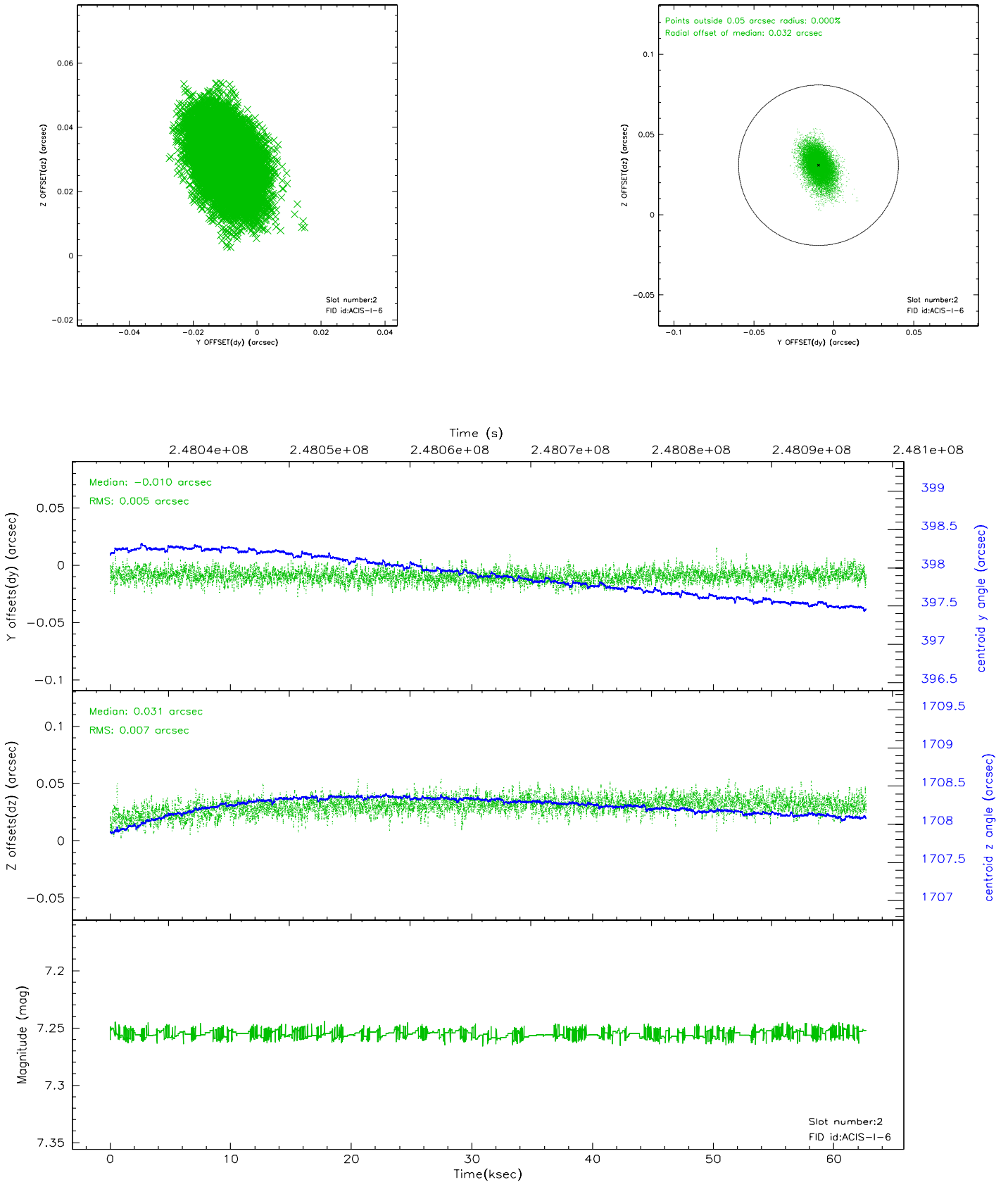
### 2.5.1 Slot 0



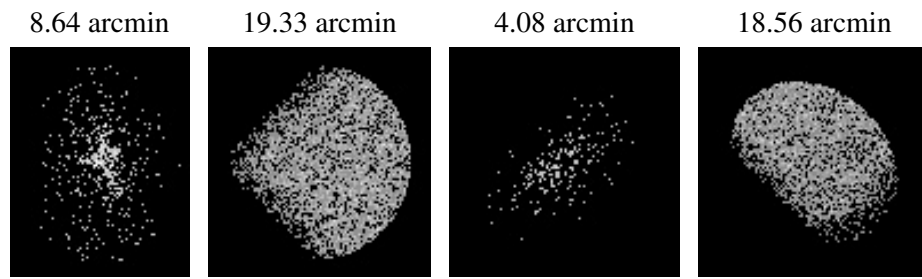
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	62.65899

### A.2 Comments

Focal plane temperature is elevated during final ~10 ksec of observation.