

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 1664 - L2 Version 001  
Chandra X-Ray Center

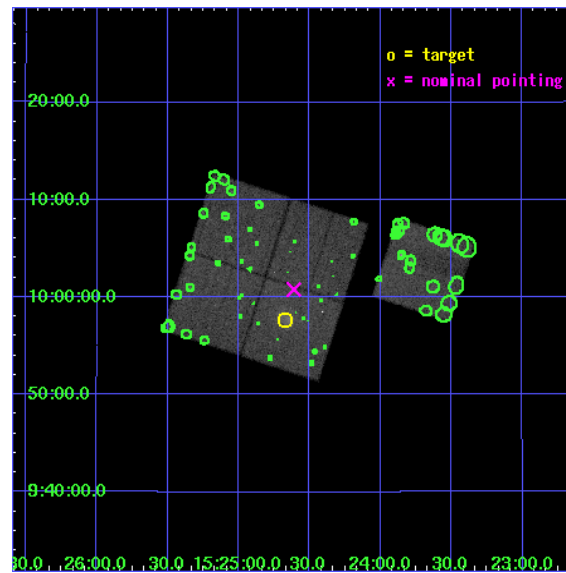
L2 Processing Date : Sep 9 2006

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# 1 Front

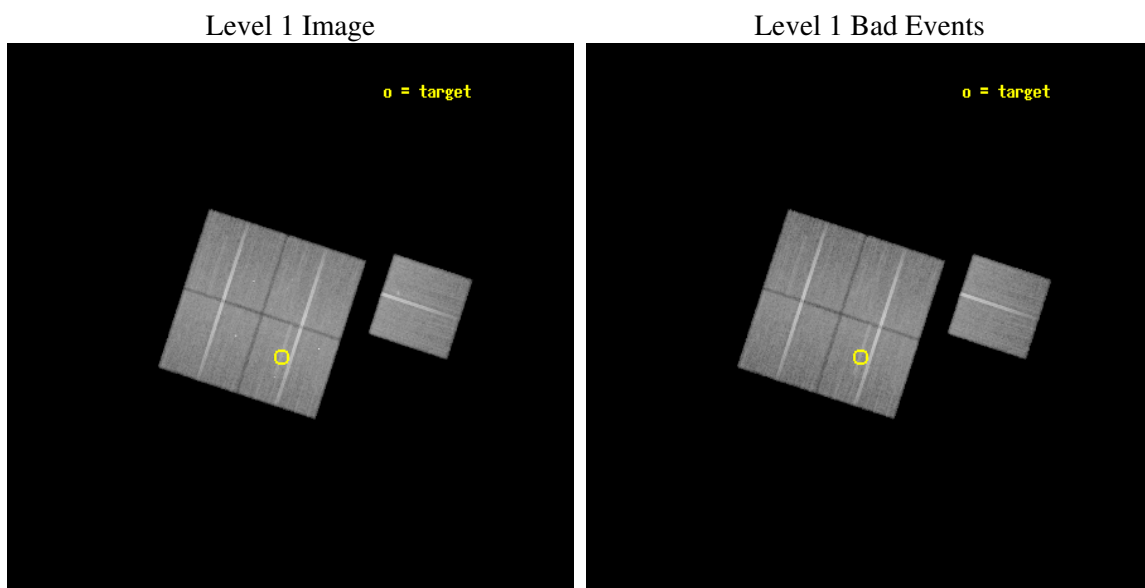
seq_num	800132
obs_id	1664
title	DETERMINATION OF H0 AND Q0, 2000 PART 1
observer	DR. LEON VANSPEYBROECK
object	V 1525+0958
dtcycle	0
cycle	P
ra_targ	231.167917
dec_targ	9.961
ra_nom	231.15270386899
dec_nom	10.01324881242
roll_nom	108.11977913815
revision	2
ontime	51546.717920452
livetime	50873.22210268
ontime0	51543.576950192
ontime1	51546.717950374
ontime2	51549.858930618
ontime3	51546.717920452
ontime6	51540.436009869
l2events	184825



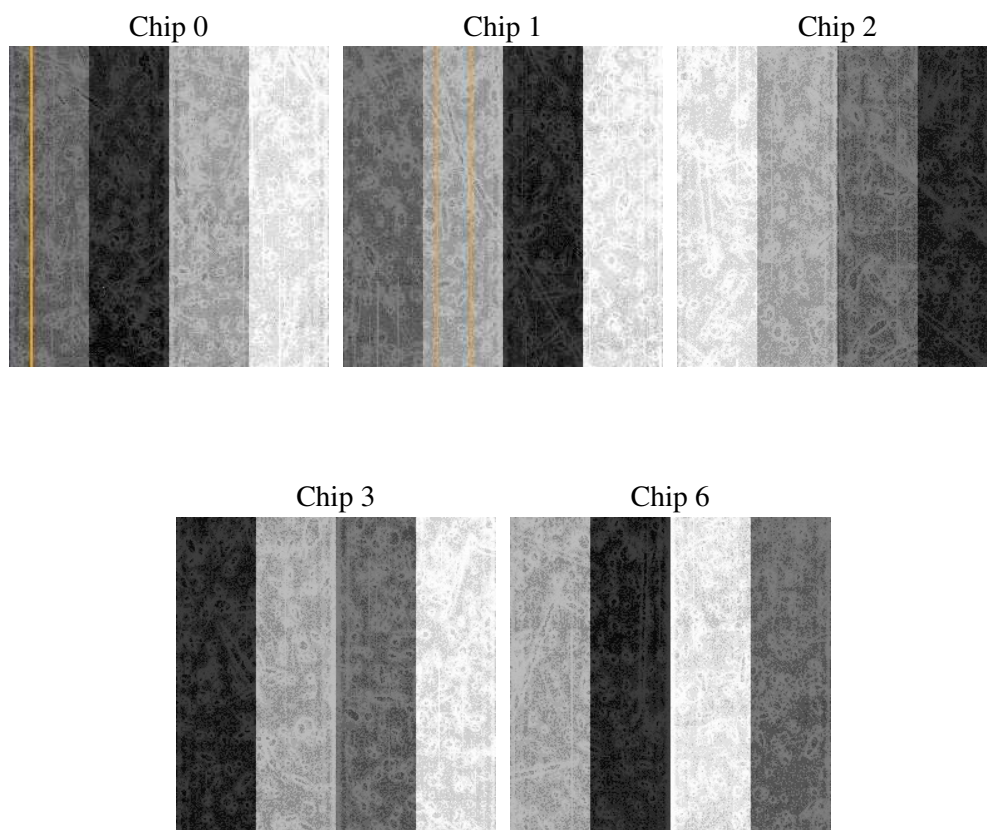
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2
ascdsver	7.6.8.1
caldbver	3.2.3
date	2006-09-09T11:16:34
revision	2

sched_exp_time	51416.955000
ontime	51773.203210756
ontime0	51770.062240496
ontime1	51773.203240678
ontime2	51776.344220921
ontime3	51773.203210756
ontime6	51766.921300173
l1events	1621373

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	303747	313038	336766	336504	331318
rejected events	262297	269538	295762	291192	289220
rejected %	86%	86%	87%	86%	87%

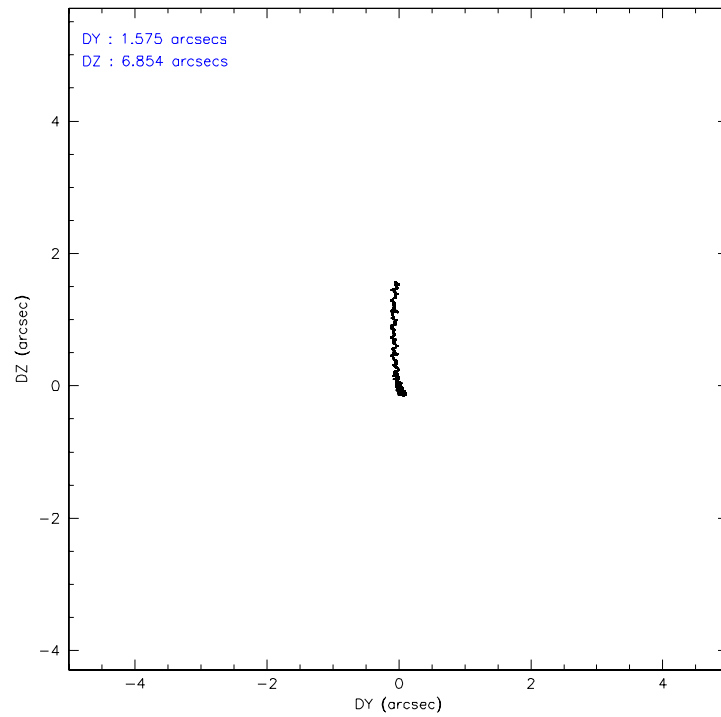
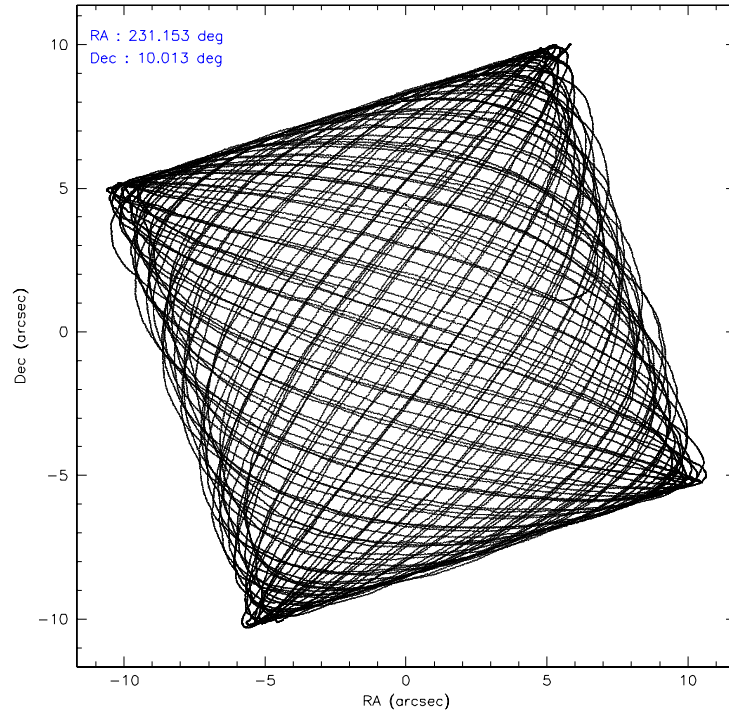
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	17980	18265	18081	21845	18371
	5%	5%	5%	6%	5%
grade 1 events	165	159	162	168	175
	0%	0%	0%	0%	0%
grade 2 events	8904	8951	8767	8840	8405
	2%	2%	2%	2%	2%
grade 3 events	4022	4280	3649	3805	3804
	1%	1%	1%	1%	1%
grade 4 events	3583	4240	3682	3733	3818
	1%	1%	1%	1%	1%
grade 5 events	12353	13219	11723	13121	14054
	4%	4%	3%	3%	4%
grade 6 events	7134	7972	7007	7272	7876
	2%	2%	2%	2%	2%
grade 7 events	249606	255952	283695	277720	274815
	82%	81%	84%	82%	82%

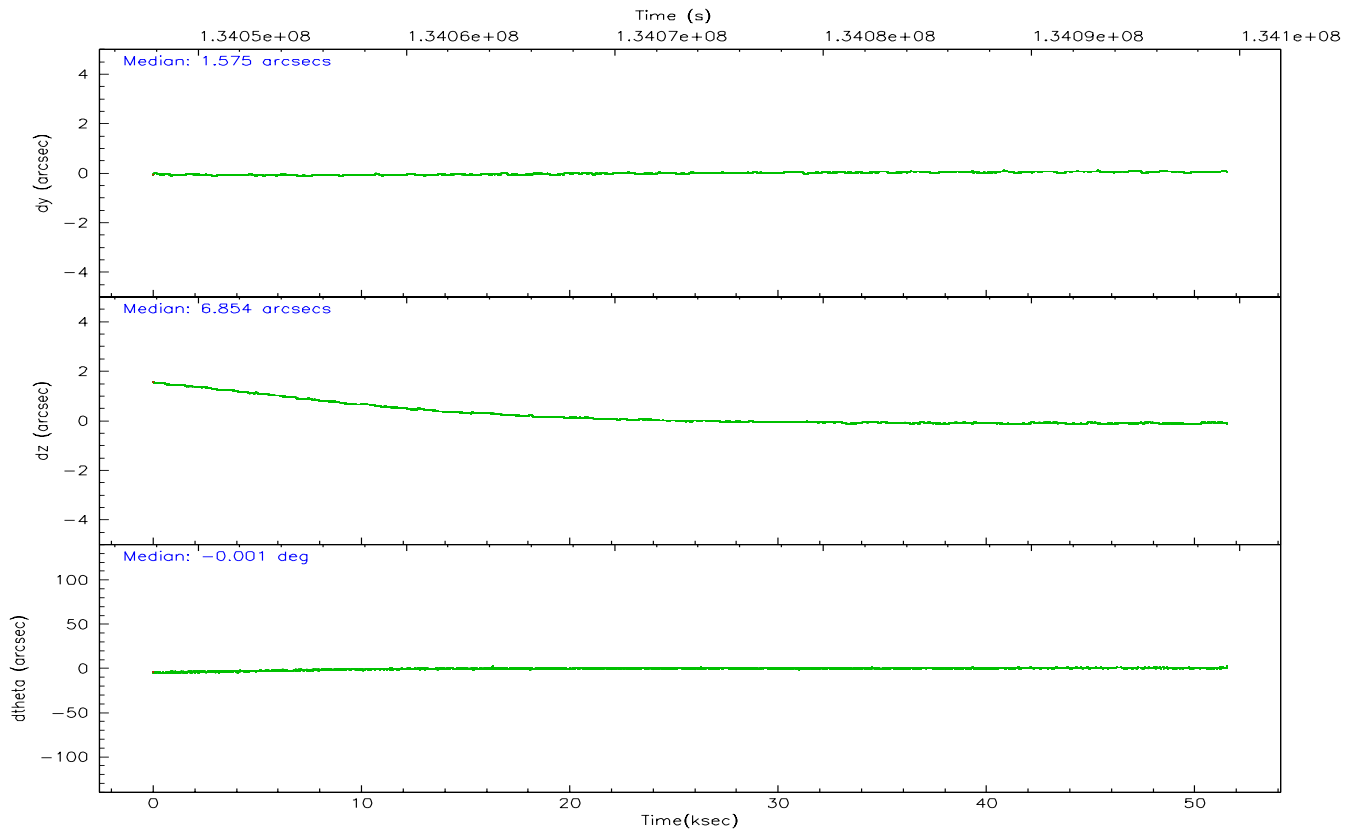
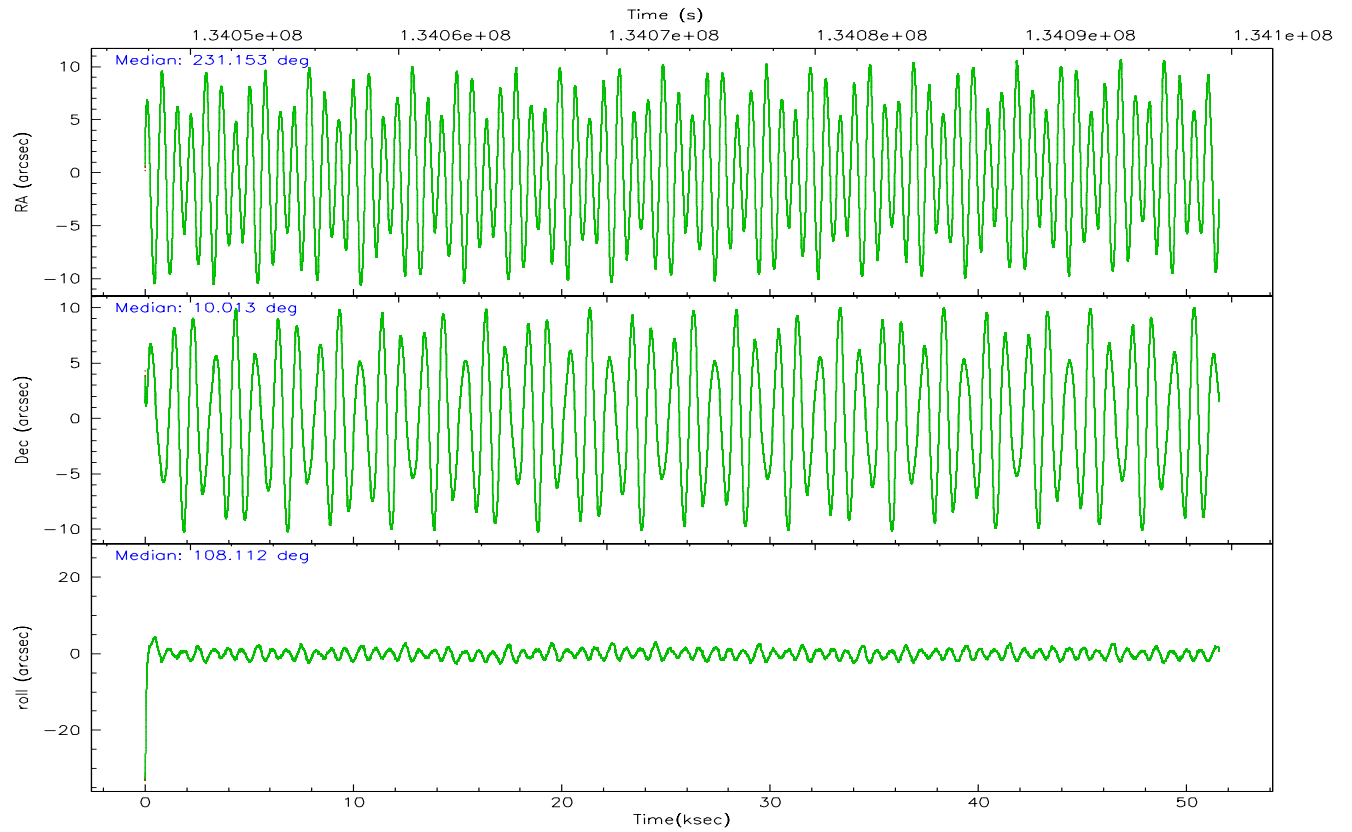


## 2.2 Compared Parameters

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	231.173475	231.1527038689852	Alternating exposures requested	N	N
Pointing Dec	9.995003	10.01324881241987	Primary exposure time	0.000000	3.1
Pointing Roll	107.907497	108.1197791381533			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-225.840463	-225.8433433320239			
SIM translation stage offset (mm)	-7.752	-7.749109670905796			
Observation start time	134047977.184000	134046897.22739			
Observation start date	2002-04-01T11:31:53	2002-04-01T11:14:57			
Observation end time	134099394.184000	134099708.81703			
Observation end date	2002-04-02T01:48:50	2002-04-02T01:55:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect



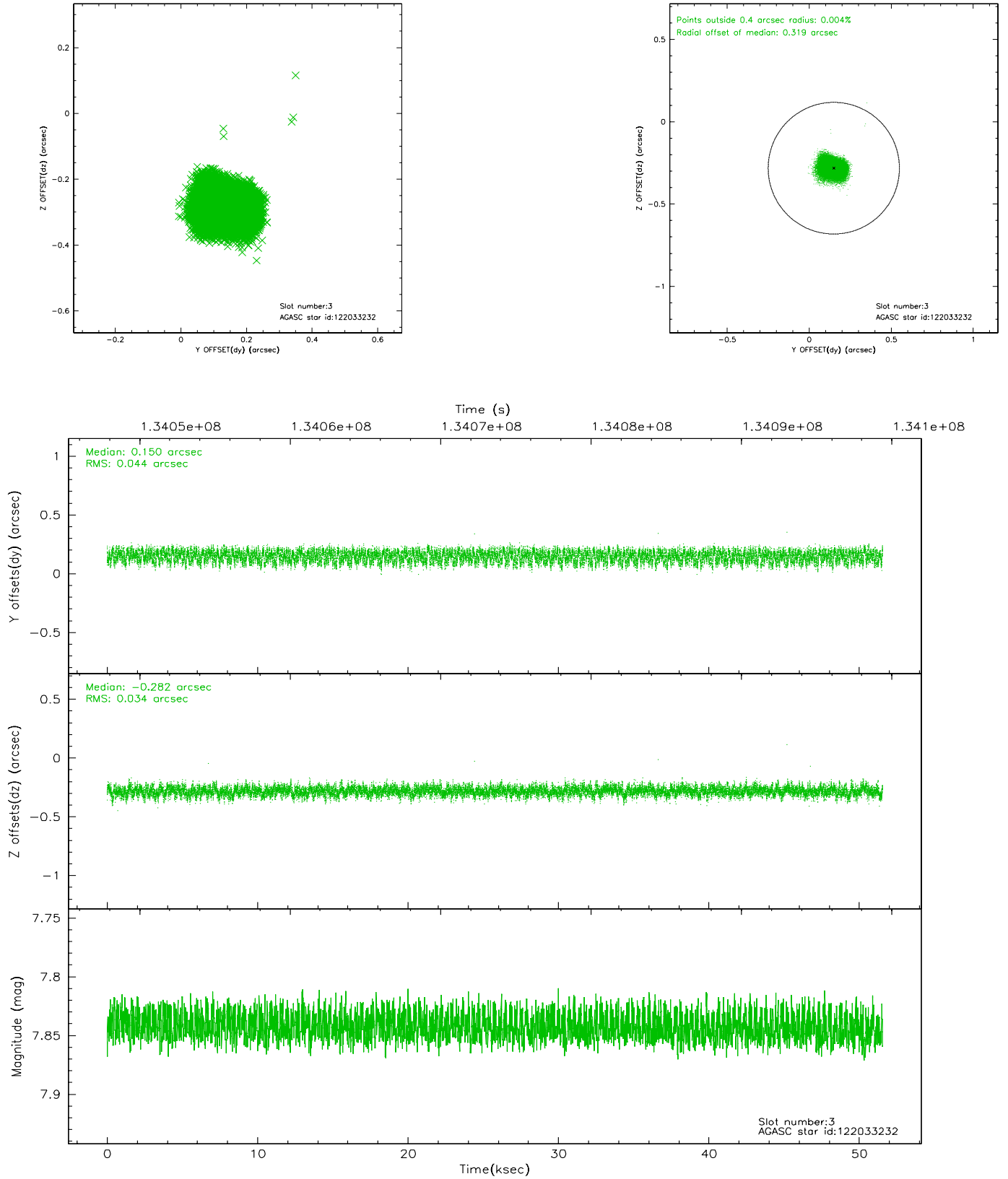


### Slot Statistics

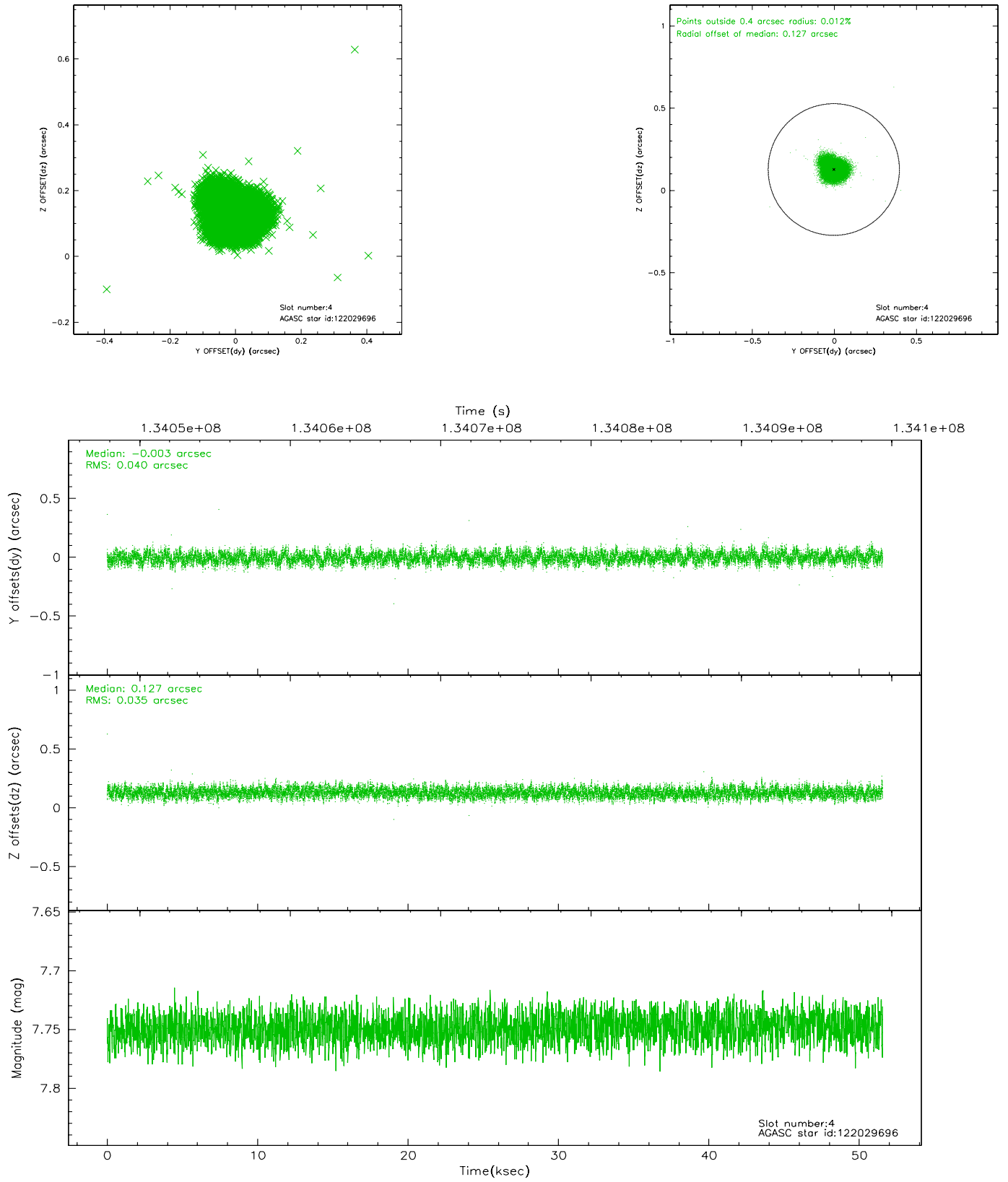
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	12575	0.066	-0.014	0.014	0.055	0.000000	0.000000	938.16	-989.61
1	FID	ACIS-I-5	7.23	12574	-0.127	0.097	0.009	0.031	0.000000	0.000000	-1810.11	908.04
2	FID	ACIS-I-6	7.27	12574	-0.028	-0.014	0.011	0.025	0.000000	0.000000	403.69	1552.37
3	GUIDE	122033232	7.84	25148	0.150	-0.282	0.059	0.094	230.699300	9.598830	-838.85	2039.91
4	GUIDE	122029696	7.75	25148	-0.003	0.127	0.057	0.091	231.060781	10.554909	2040.45	-239.41
5	GUIDE	122162936	8.03	25148	0.043	0.184	0.073	0.116	231.825248	9.700093	-1719.39	-1874.79
6	GUIDE	122030576	8.36	25145	-0.161	0.102	0.072	0.112	231.330080	10.643154	2049.76	-1244.09
7	GUIDE	122029248	8.64	25144	-0.030	-0.131	0.077	0.124	230.708591	9.899623	180.88	1674.27

## 2.4 Star Slots

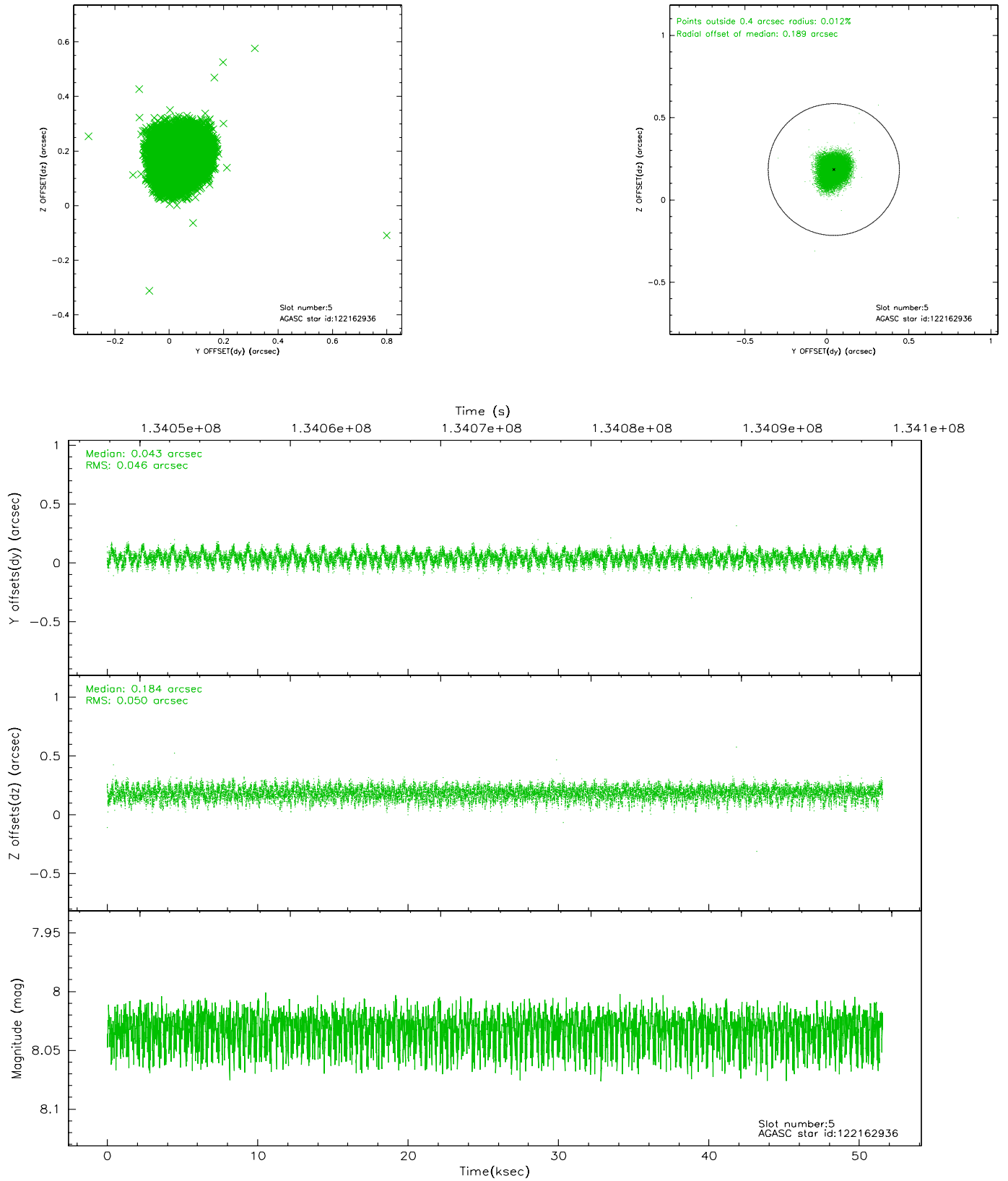
### 2.4.1 Slot 3



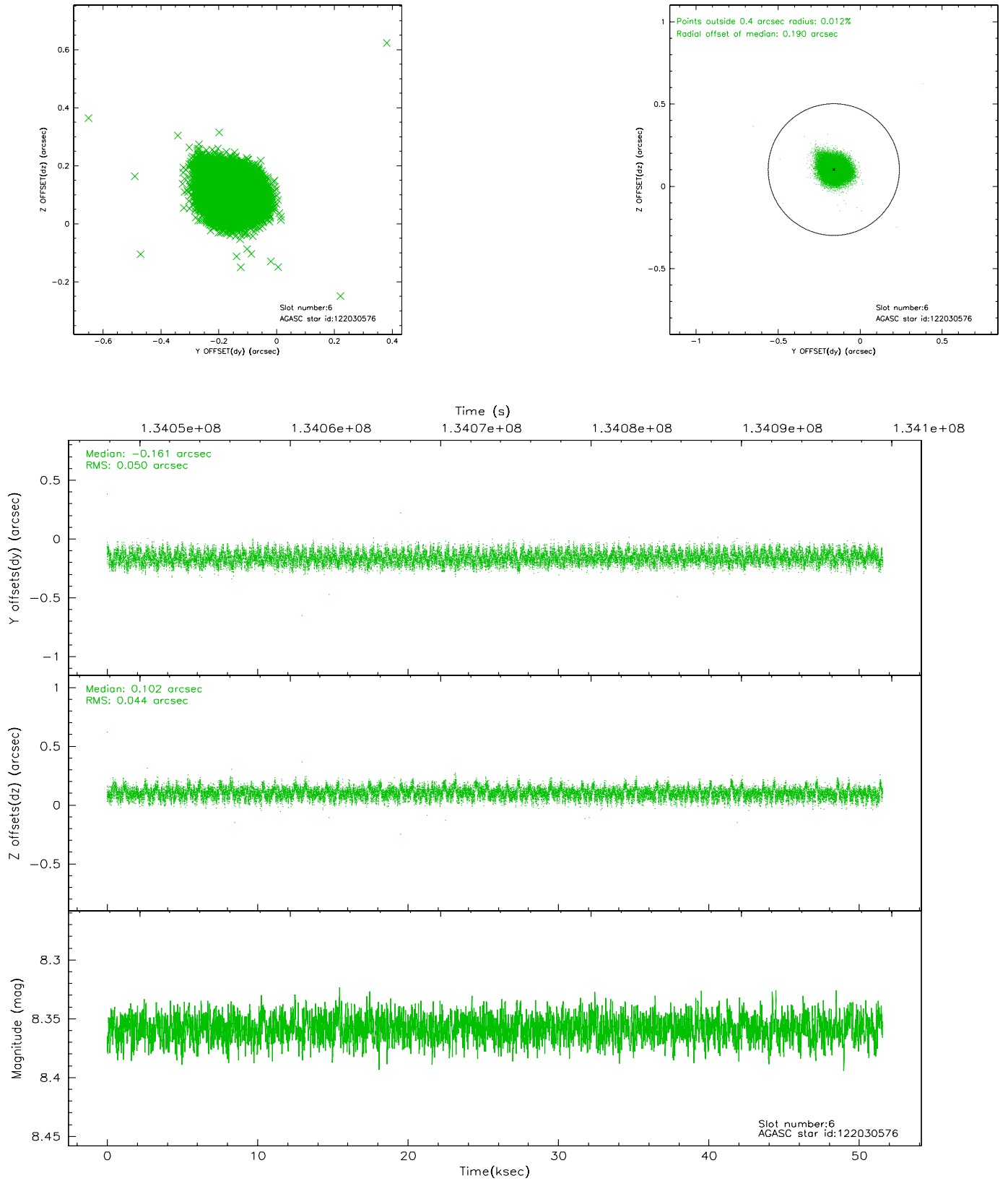
## 2.4.2 Slot 4



### 2.4.3 Slot 5

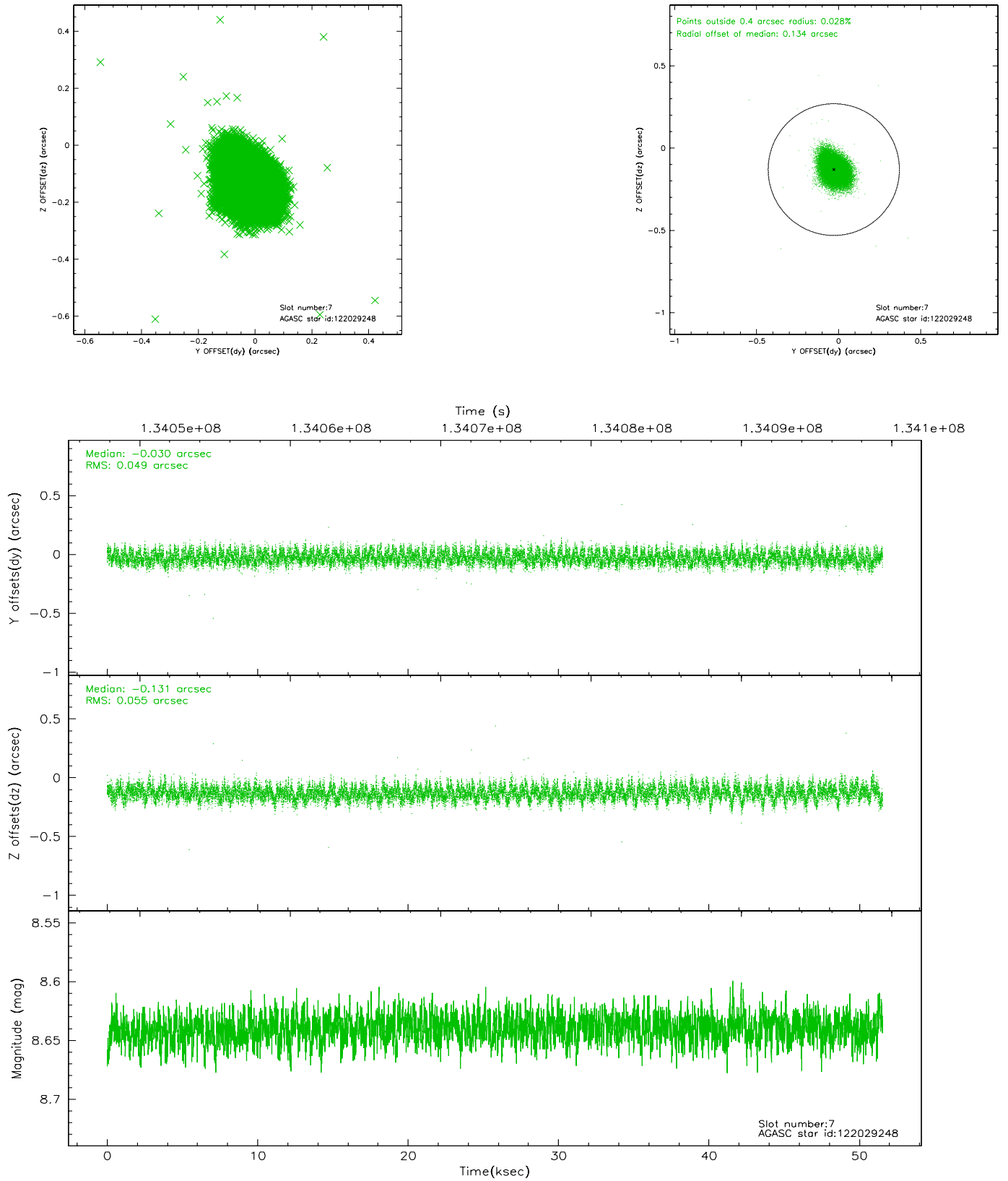


## 2.4.4 Slot 6



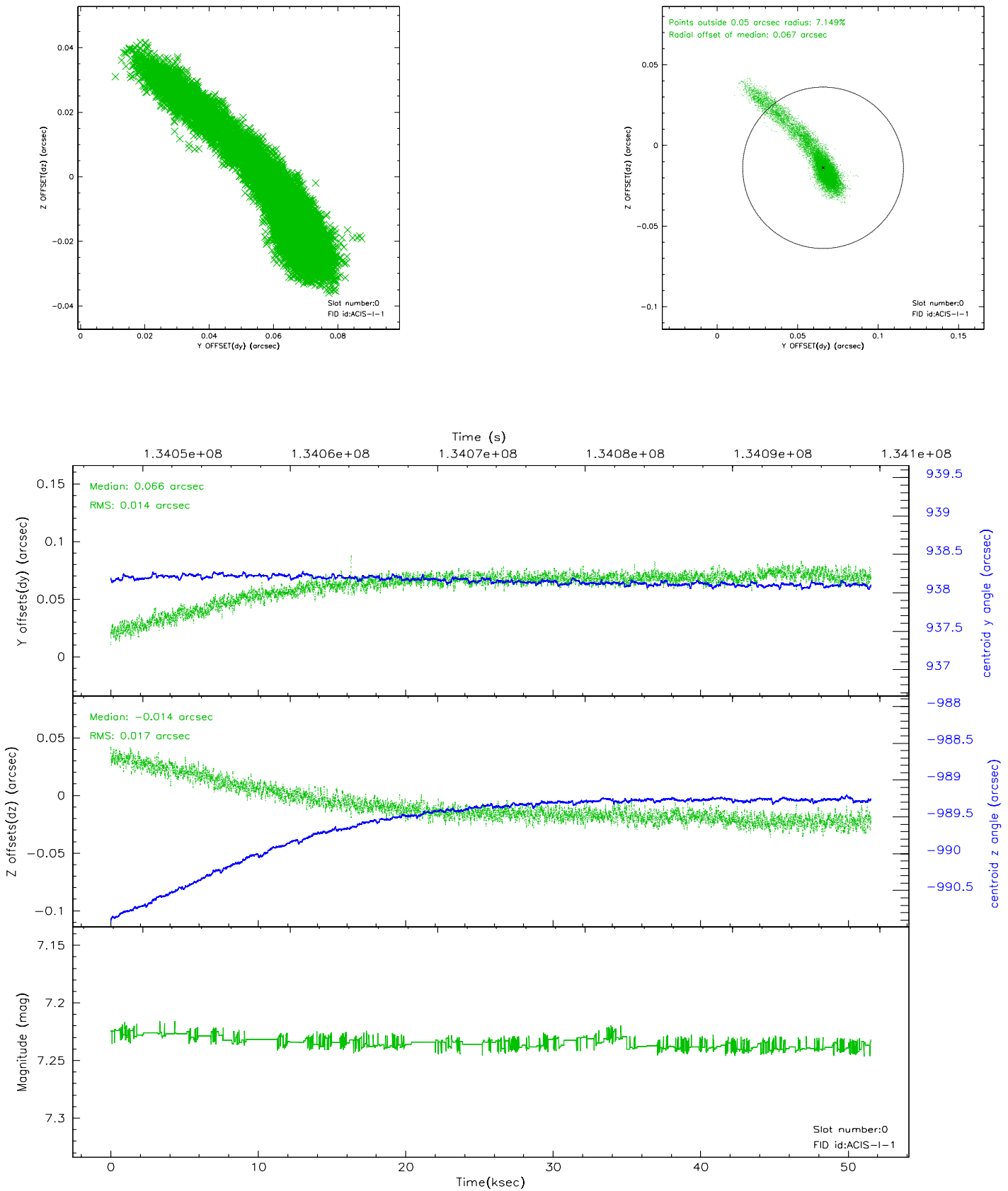


## 2.4.5 Slot 7

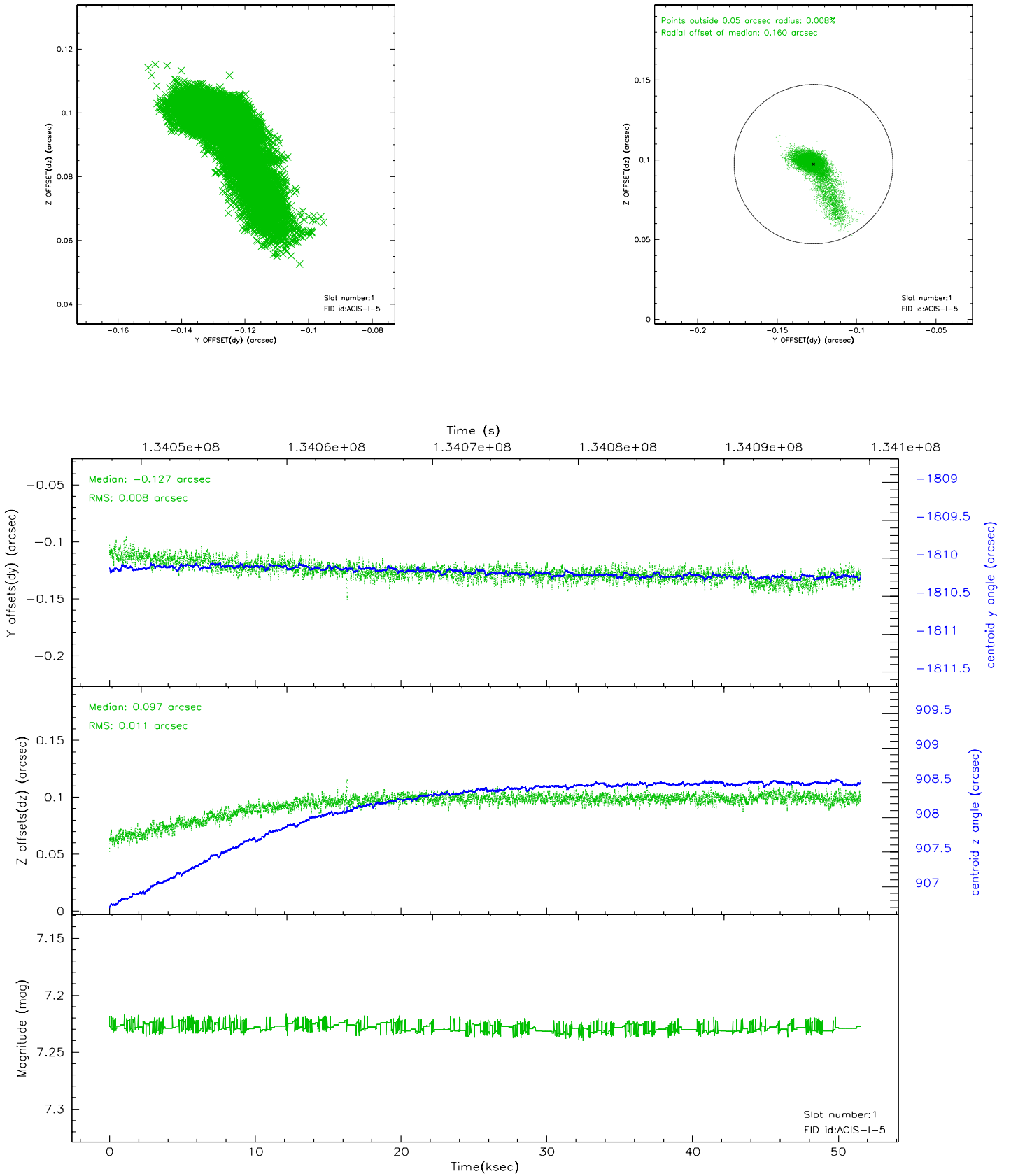


## 2.5 FID Slots

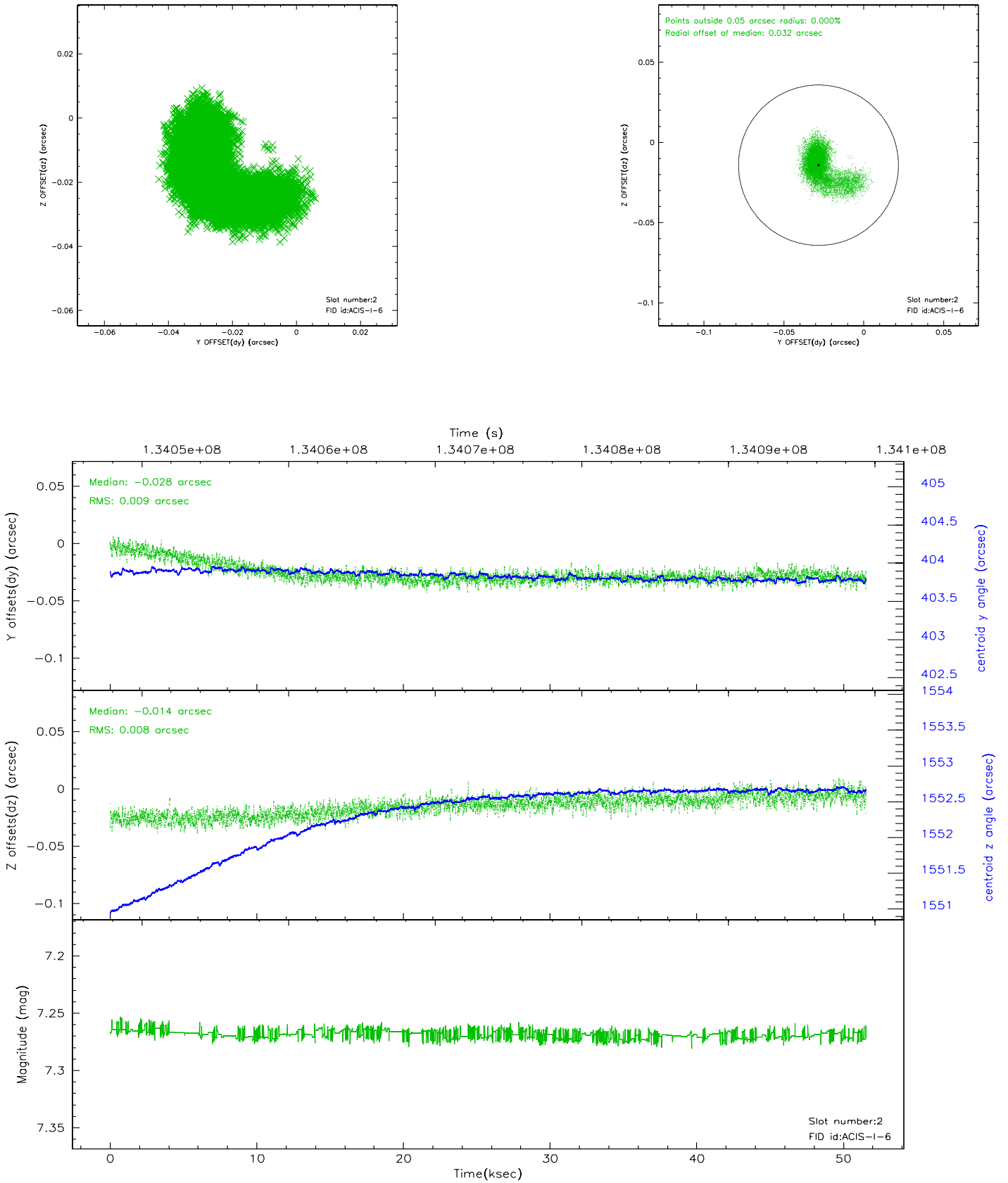
### 2.5.1 Slot 0



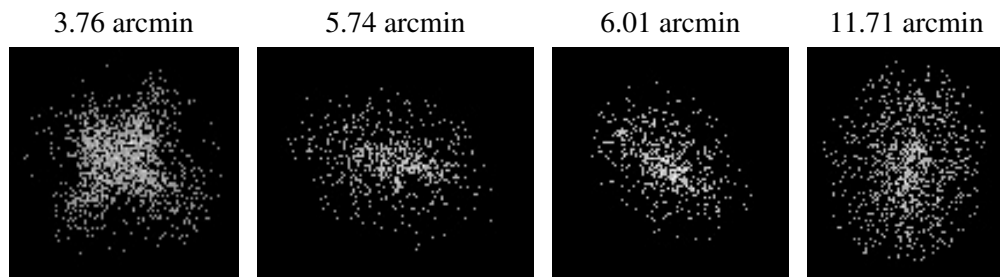
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	51.546

## A.2 Comments

The ACIS focal plane temperature is above calibration limits for the last 4 ksec of the observation.

The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.