

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 4408 - L2 Version 001  
Chandra X-Ray Center

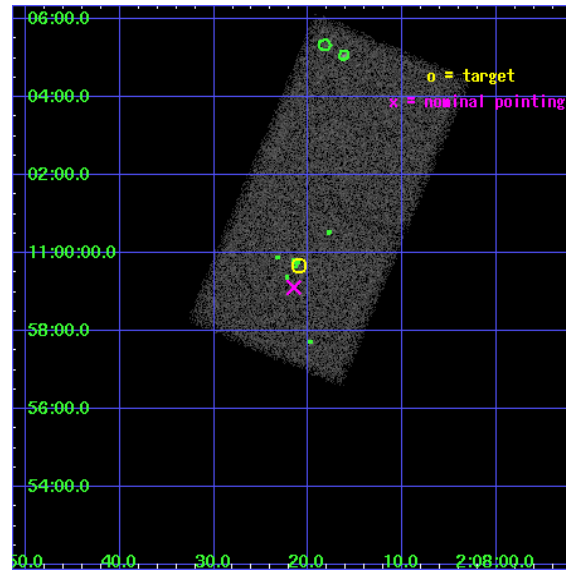
L2 Processing Date : Jan 11 2007

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# 1 Front

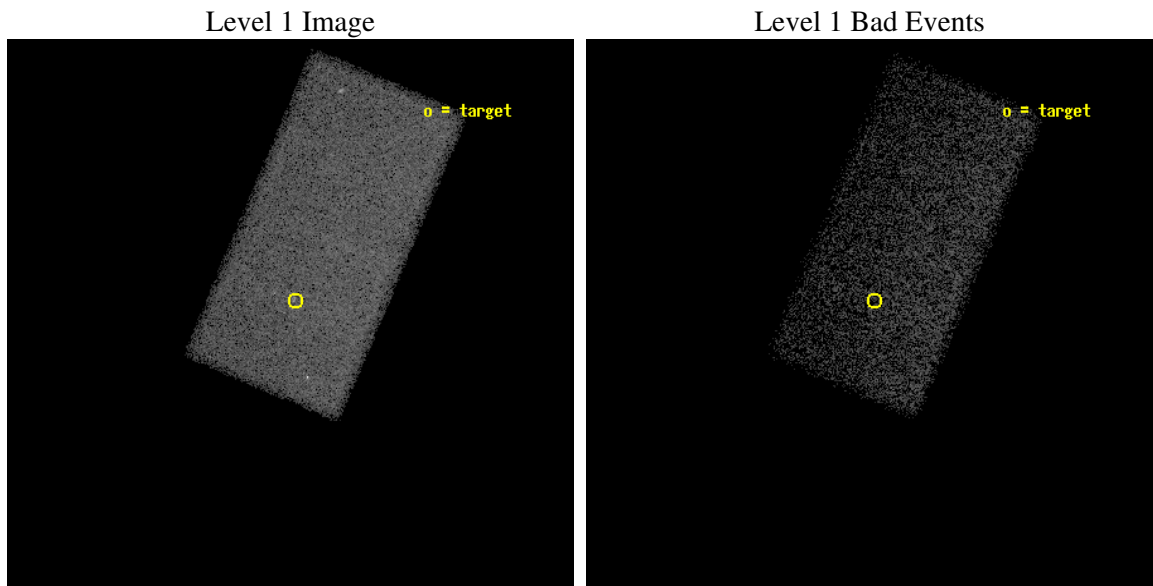
seq_num	700685
obs_id	4408
title	QUIESCENT SUPERMASSIVE BLACK HOLES
observer	Dr Giuseppina Fabbiano
object	NGC 821
dtcycle	0
cycle	P
ra_targ	32.0875
dec_targ	10.994722
ra_nom	32.089714684105
dec_nom	10.985263938202
roll_nom	293.01821304026
revision	3
ontime	25276.5
livetime	24603.352281576
ontime7	25276.5
l2events	64230



## 2 OBI

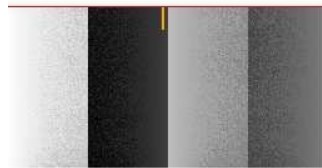
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.3.0
date	2007-01-11T20:06:40
revision	4

sched_exp_time	30000.000000
ontime	25276.5
ontime7	25276.5
l1events	128455

### 2.1.4 Events

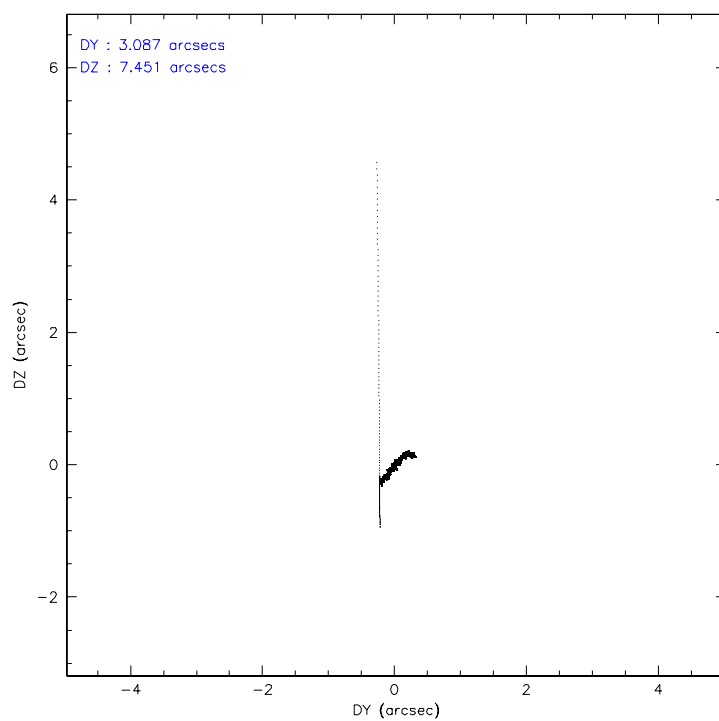
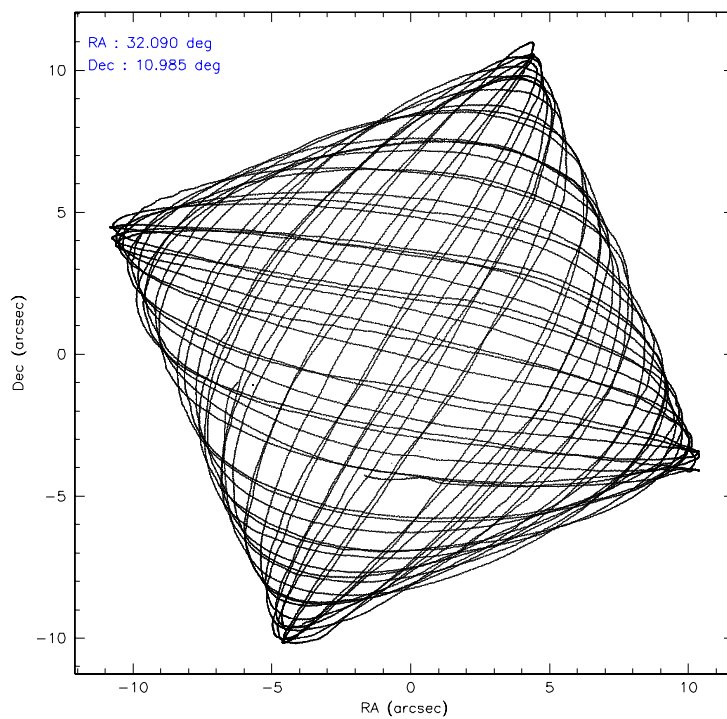
	<b>ccd 7</b>
level 1 events	128455
rejected events	62706
rejected %	48%

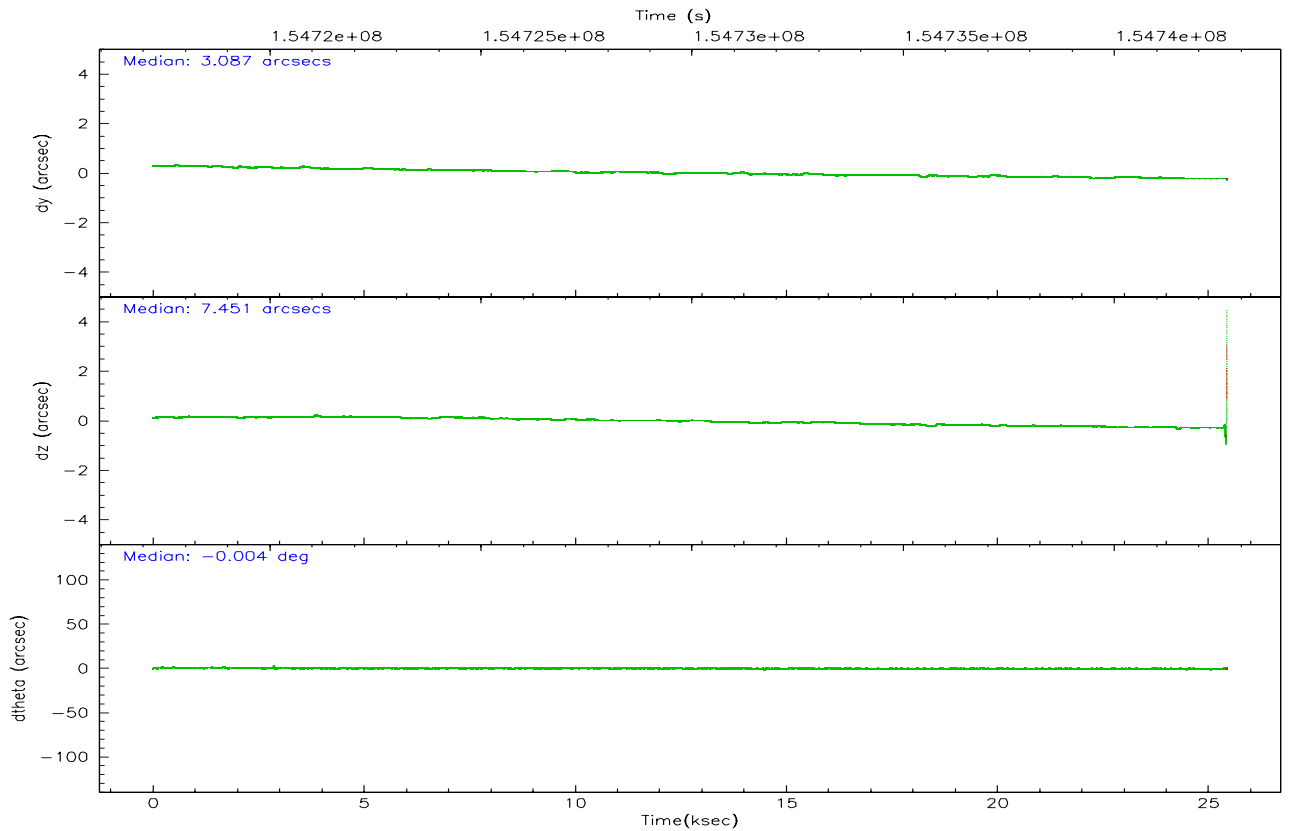
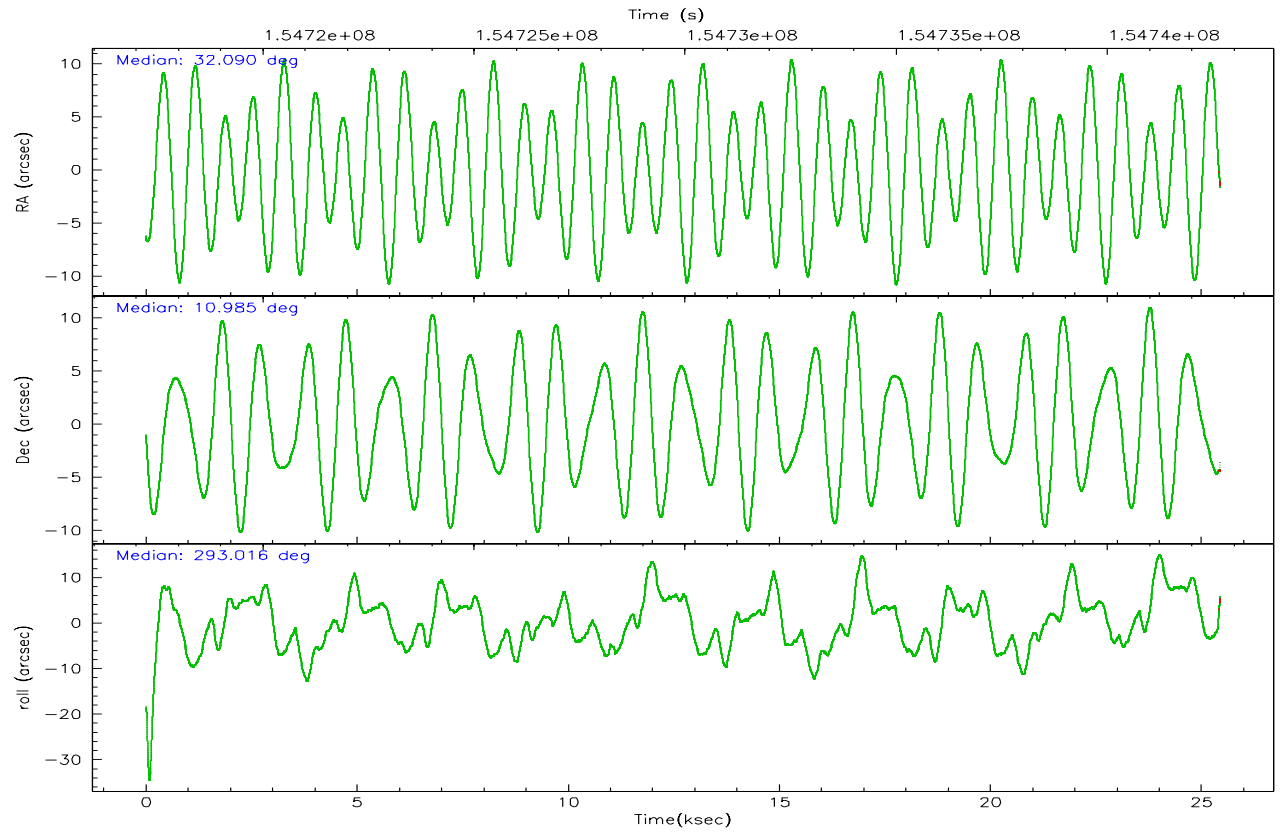
	<b>ccd 7</b>
grade 0 events	6678
	5%
grade 1 events	147
	0%
grade 2 events	13091
	10%
grade 3 events	6123
	4%
grade 4 events	6188
	4%
grade 5 events	10729
	8%
grade 6 events	33772
	26%
grade 7 events	51727
	40%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	32.067314	32.08971468410485	Subarray requested	1/2	1/2
Pointing Dec	11.001377	10.98526393820224	Subarray start row	0	257
Pointing Roll	292.865850	293.0182130402616	Subarray row count	1024	512
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1.5
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	154718161.184000	154716824.62752			
Observation start date	2002-11-26T17:14:57	2002-11-26T16:53:44			
Observation end time	154748161.184000	154742695.1161			
Observation end date	2002-11-27T01:34:57	2002-11-27T00:04:55			
Read mode	TIMED	TIMED			

## 2.3 Aspect





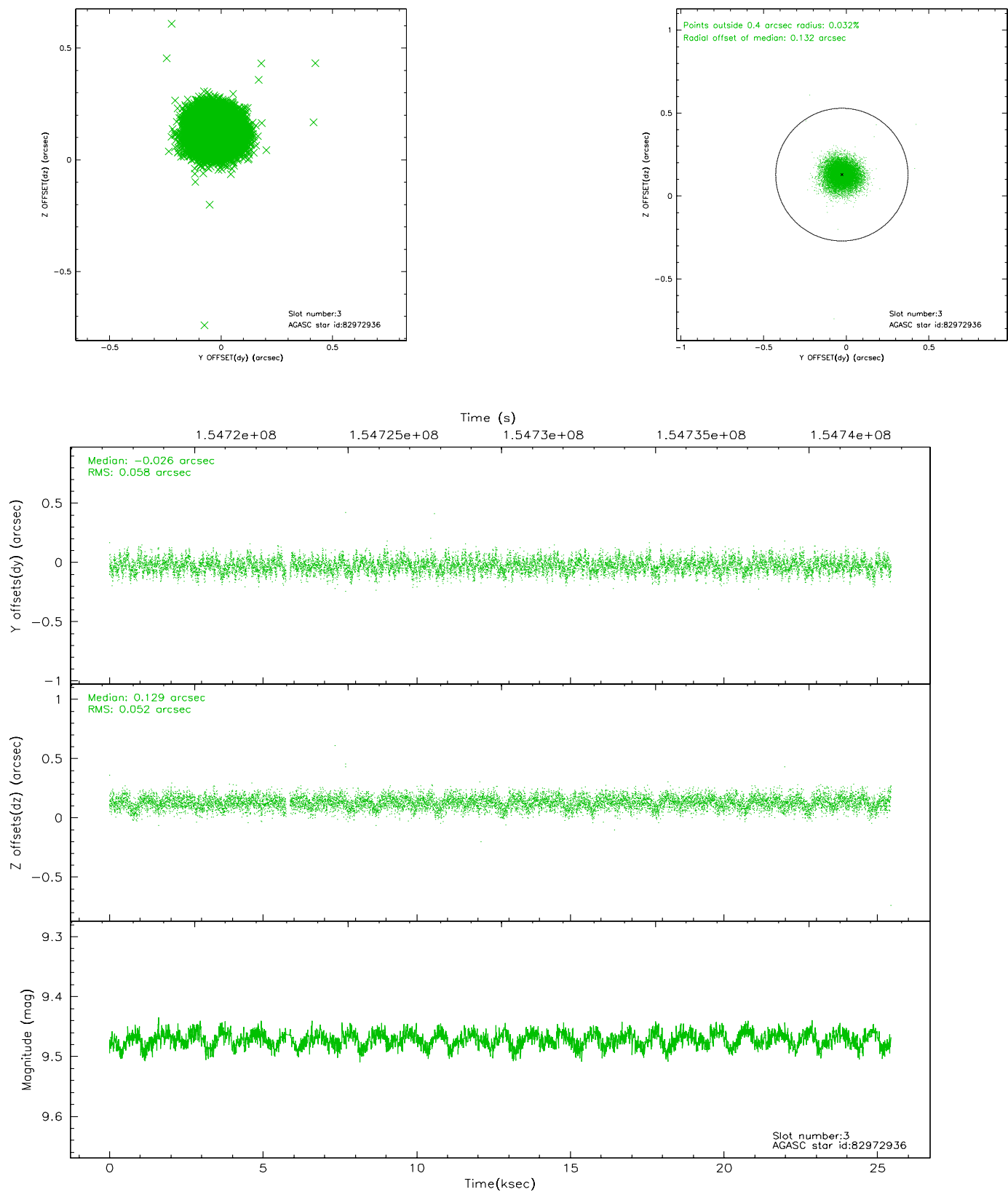
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6200	-0.004	0.021	0.009	0.024	0.000000	0.000000	-755.76	-1728.58
1	FID	ACIS-S-4	7.20	6200	-0.037	-0.003	0.007	0.025	0.000000	0.000000	2157.44	179.75
2	FID	ACIS-S-5	7.24	6200	0.011	-0.009	0.010	0.016	0.000000	0.000000	-1808.43	173.56
3	GUIDE	82972936	9.47	12344	-0.026	0.129	0.083	0.133	31.880349	11.323150	-1325.32	-158.32
4	GUIDE	82972976	9.71	12406	-0.055	0.011	0.089	0.145	31.722409	11.276757	-1388.54	-737.00
5	GUIDE	82974960	9.82	12403	-0.058	-0.092	0.099	0.167	31.911636	11.621581	-2272.15	361.16
6	GUIDE	82976744	9.51	12402	0.137	-0.051	0.082	0.141	32.095784	10.602457	1361.07	-465.63
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

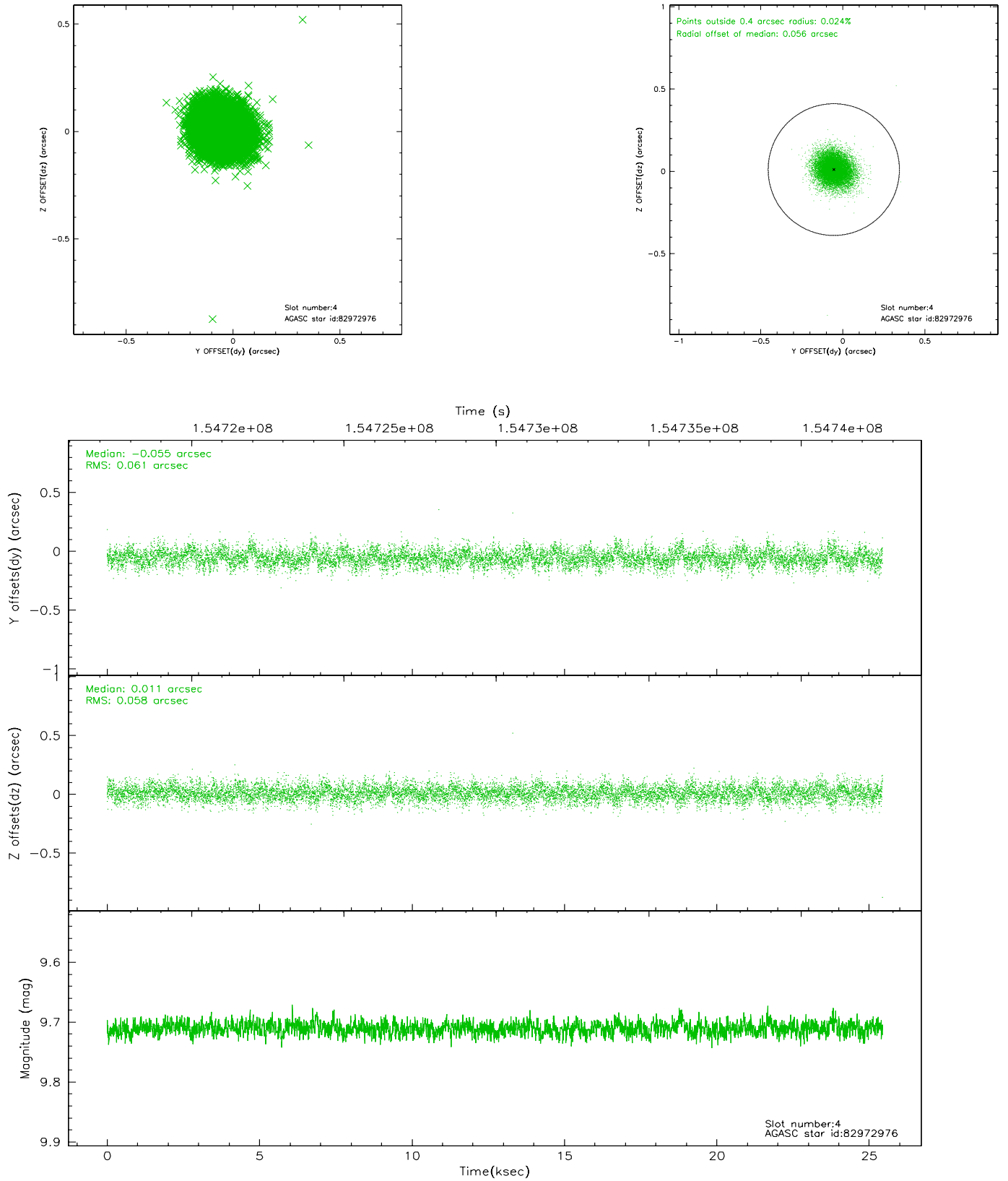


## 2.4 Star Slots

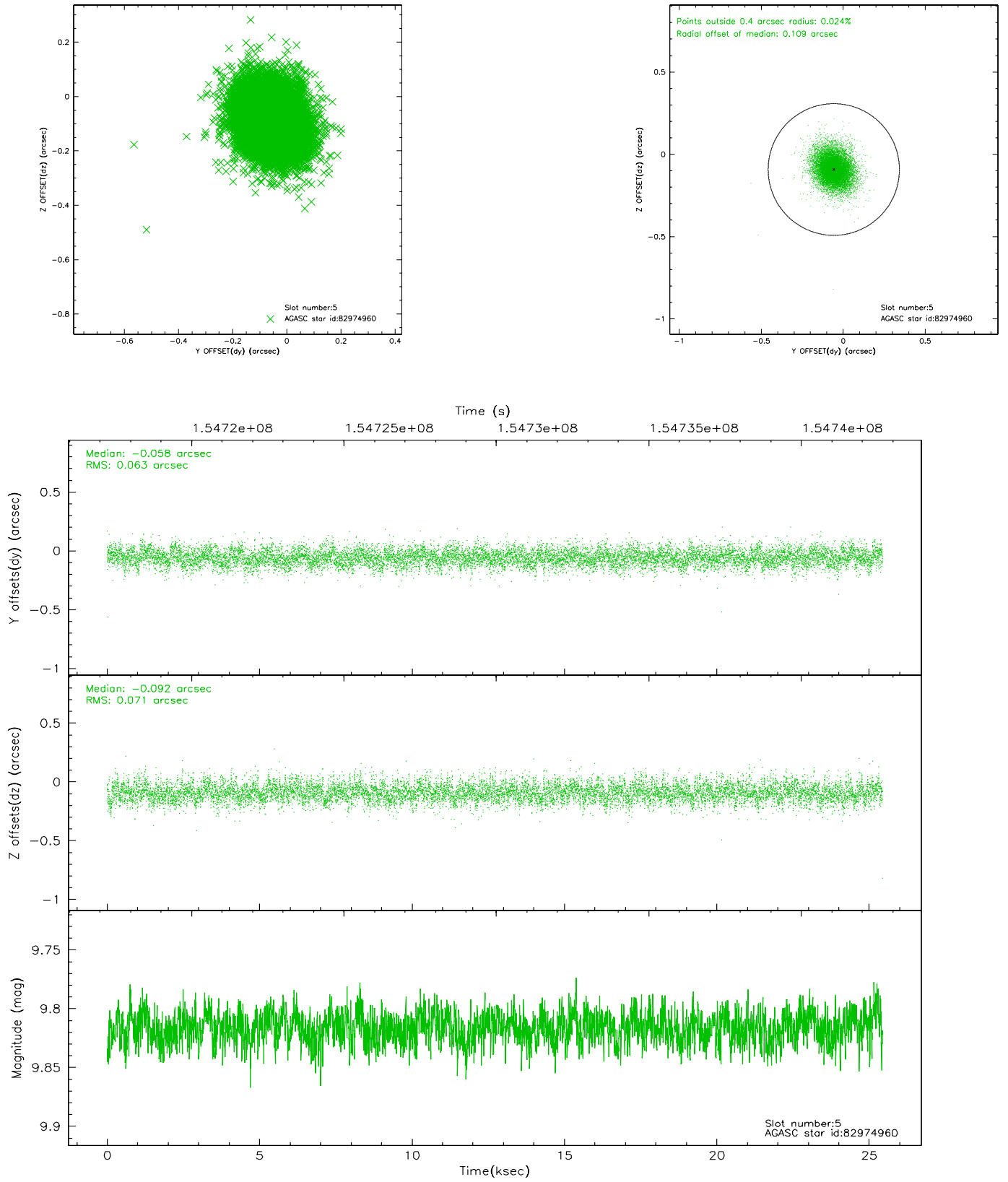
### 2.4.1 Slot 3



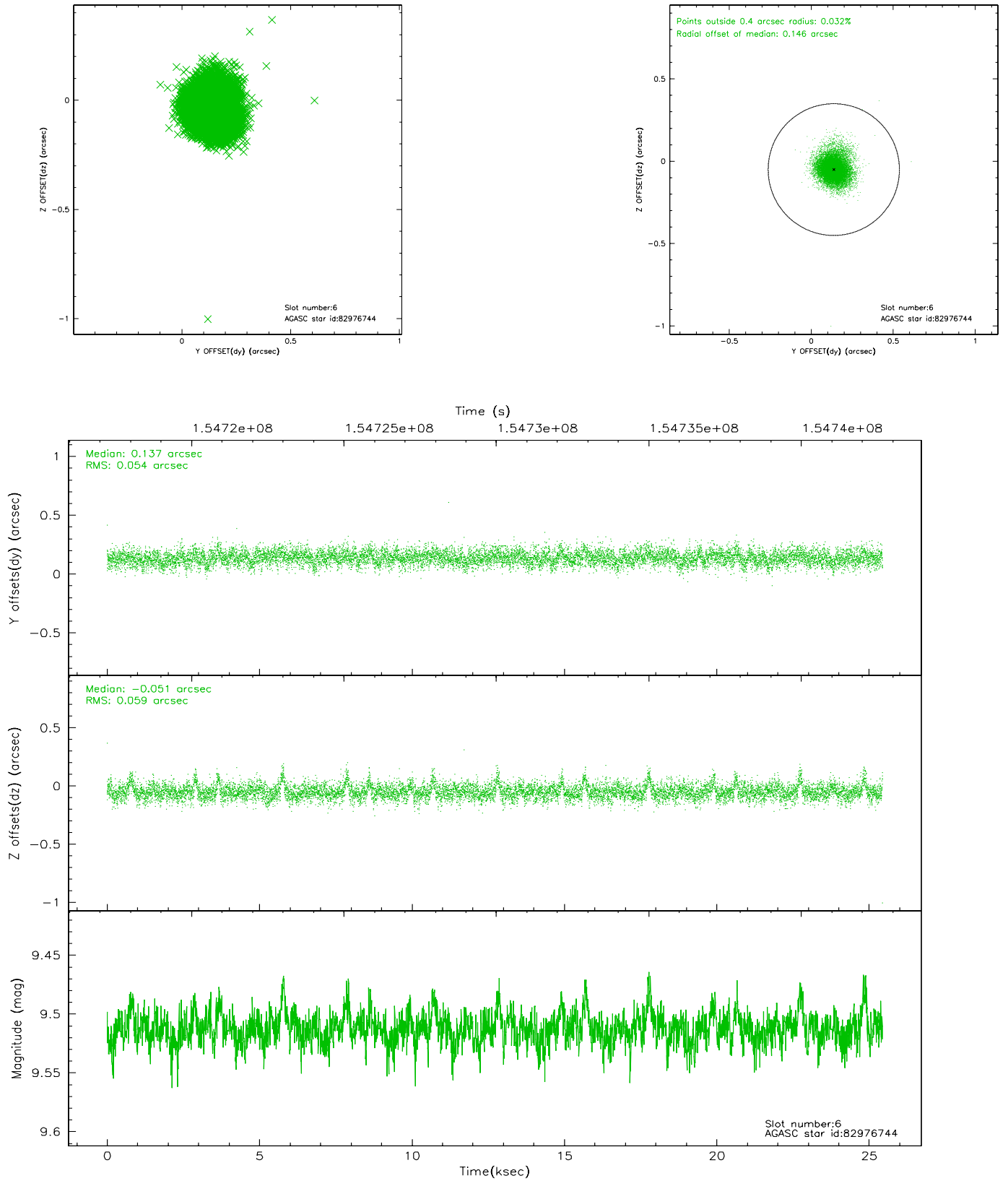
## 2.4.2 Slot 4



### 2.4.3 Slot 5

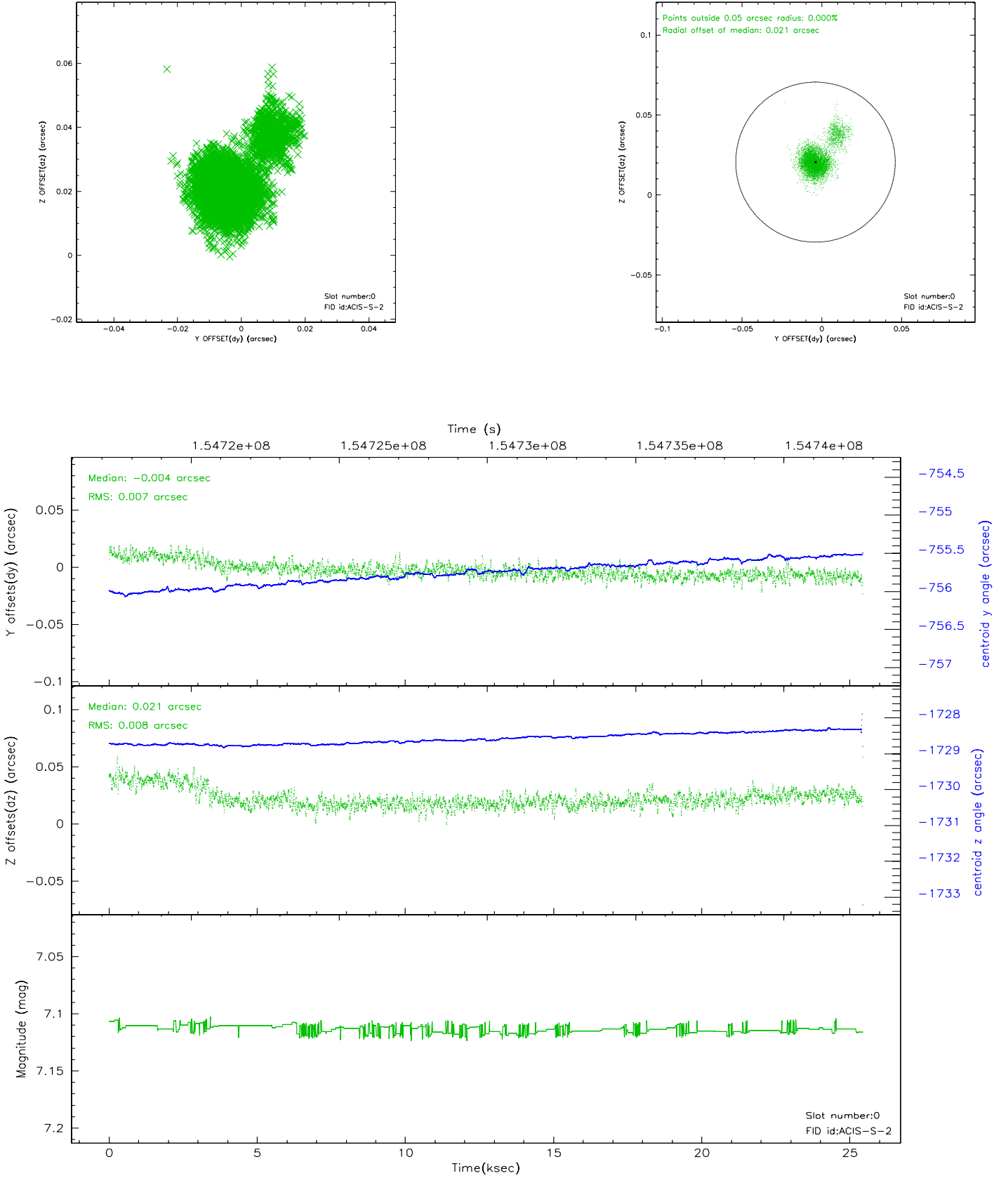


## 2.4.4 Slot 6

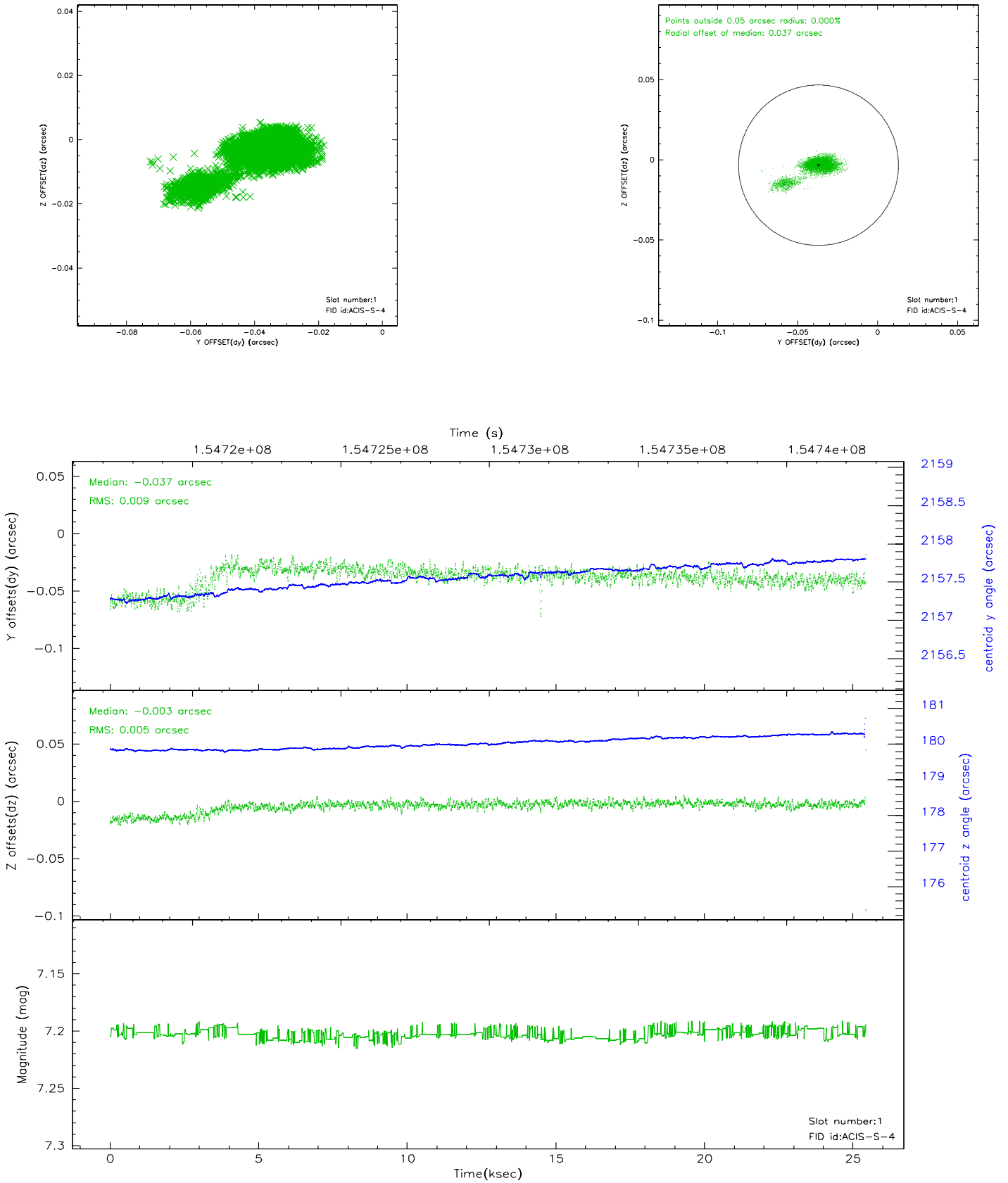


## 2.5 FID Slots

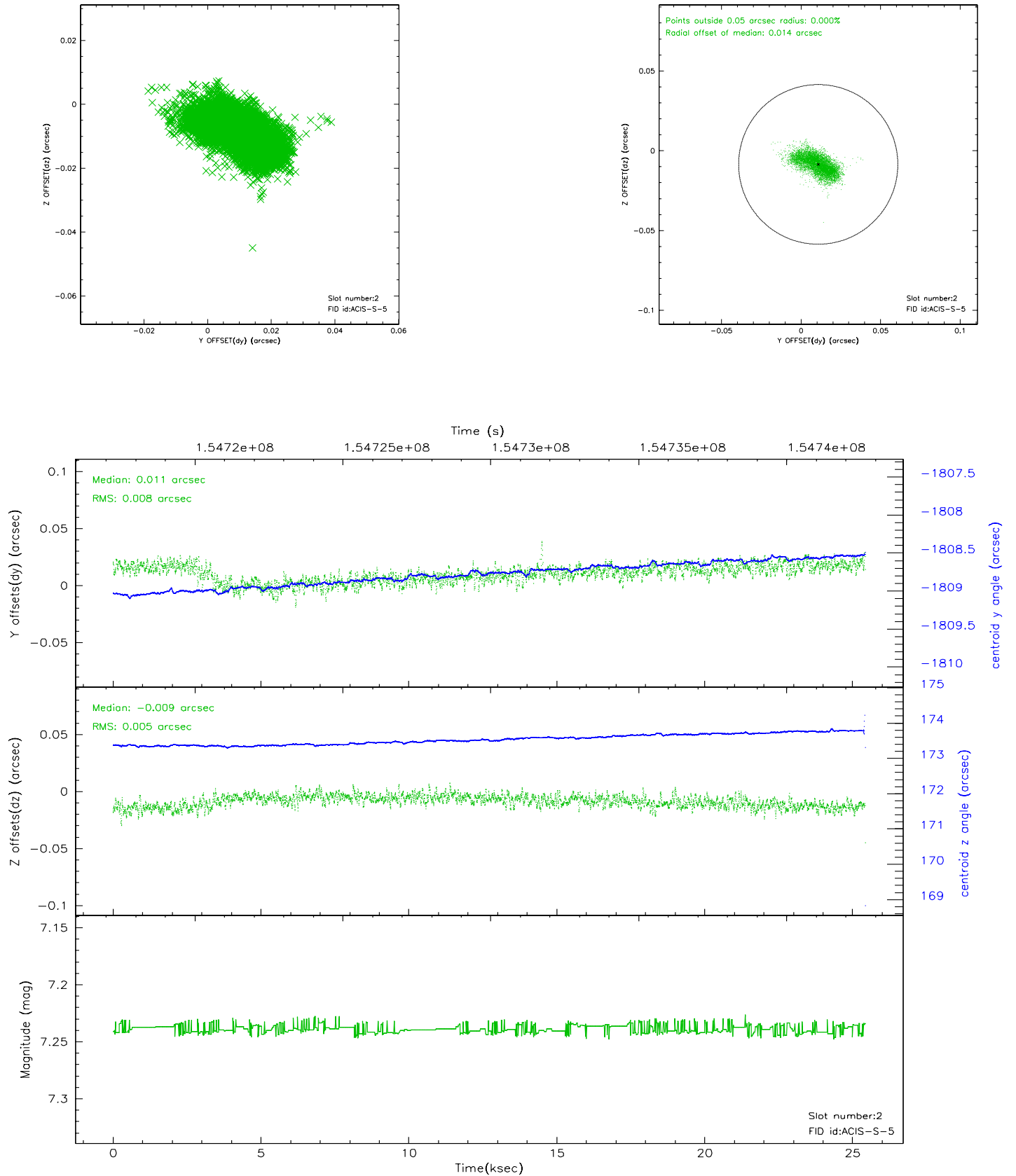
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources

6.09 arcmin





# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.275

## A.2 Comments

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 331:00:04:55.

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one guide star or fid light from the solution.