

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5301 - L2 Version 001  
Chandra X-Ray Center

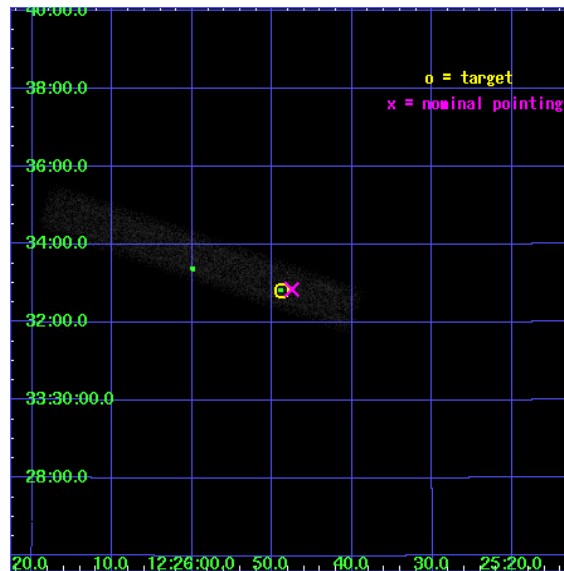
L2 Processing Date : May 25 2006

## 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

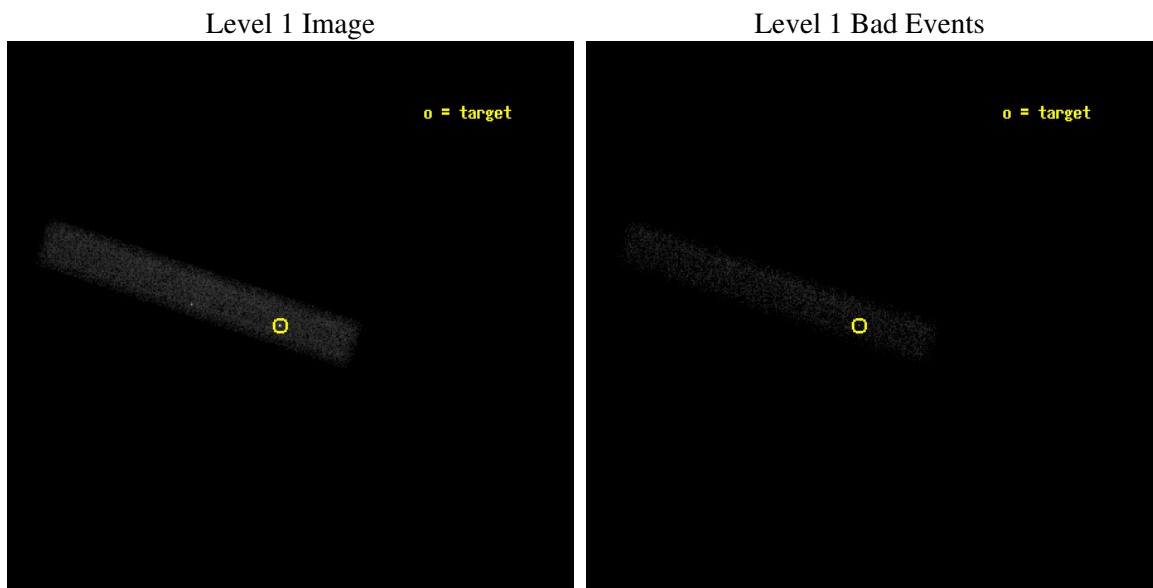
seq_num	701013
obs_id	5301
title	Multiwavelength Reverberation Mapping of NGC 4395, the Least Luminous Seyfert 1 Galaxy
observer	Dr. Edward Moran
object	NGC 4395
dtcycle	0
cycle	P
ra_targ	186.453333
dec_targ	33.546944
ra_nom	186.44813910063
dec_nom	33.547268445415
roll_nom	198.39208379366
revision	2
ontime	29730.400443017
livetime	26963.90390261
ontime7	29730.400443017
l2events	19977



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-25T08:59:26
revision	2

sched_exp_time	29570.491000
ontime	31040.966375887
ontime7	31040.966375887
l1events	43397

### 2.1.4 Events

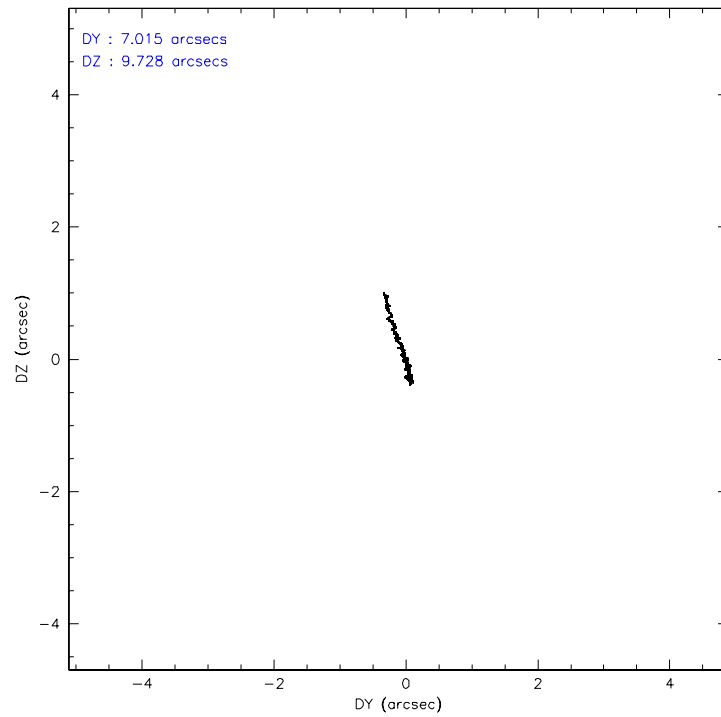
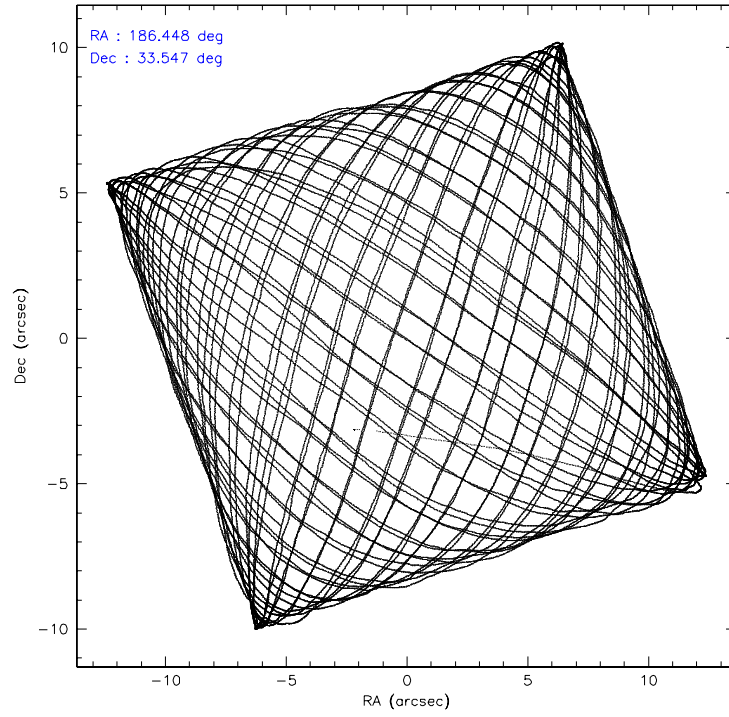
	<b>ccd 7</b>
level 1 events	43397
rejected events	22725
rejected %	52%

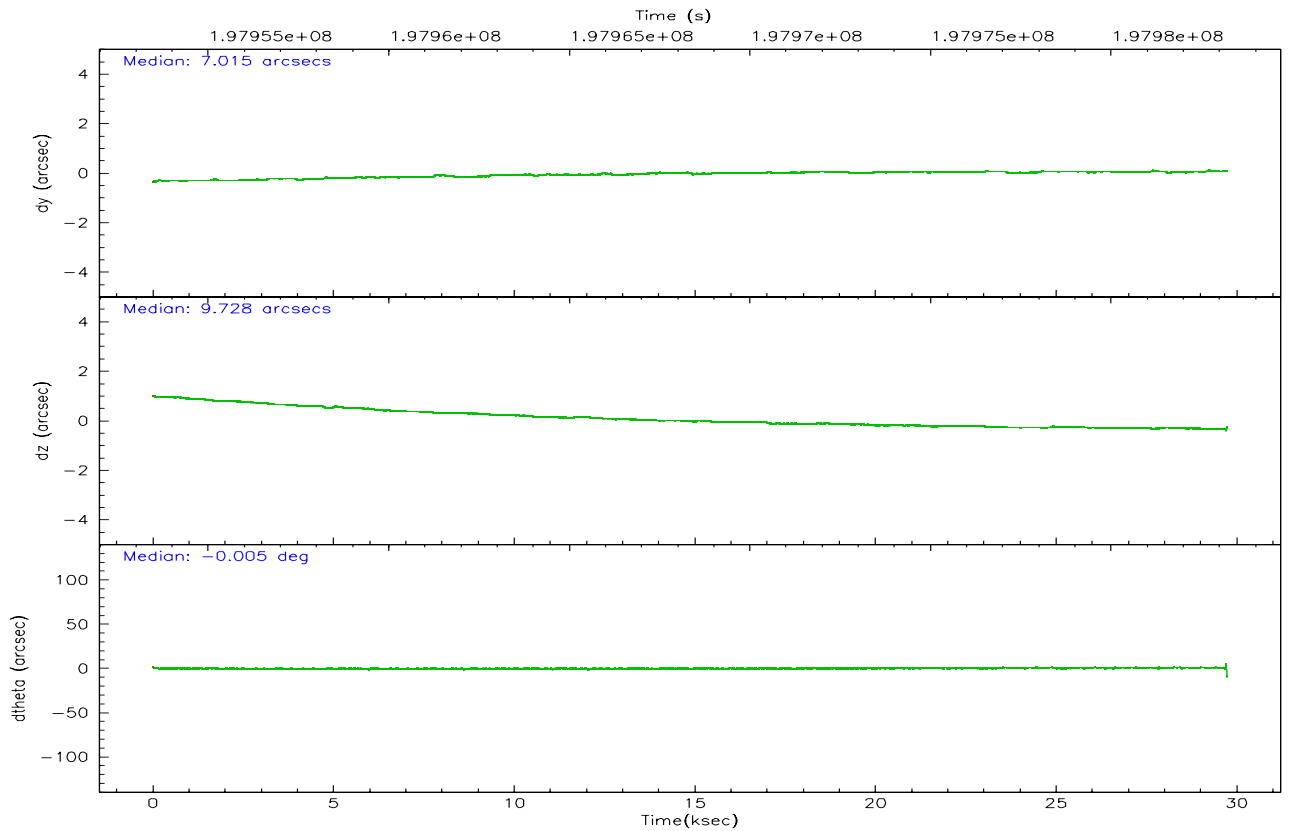
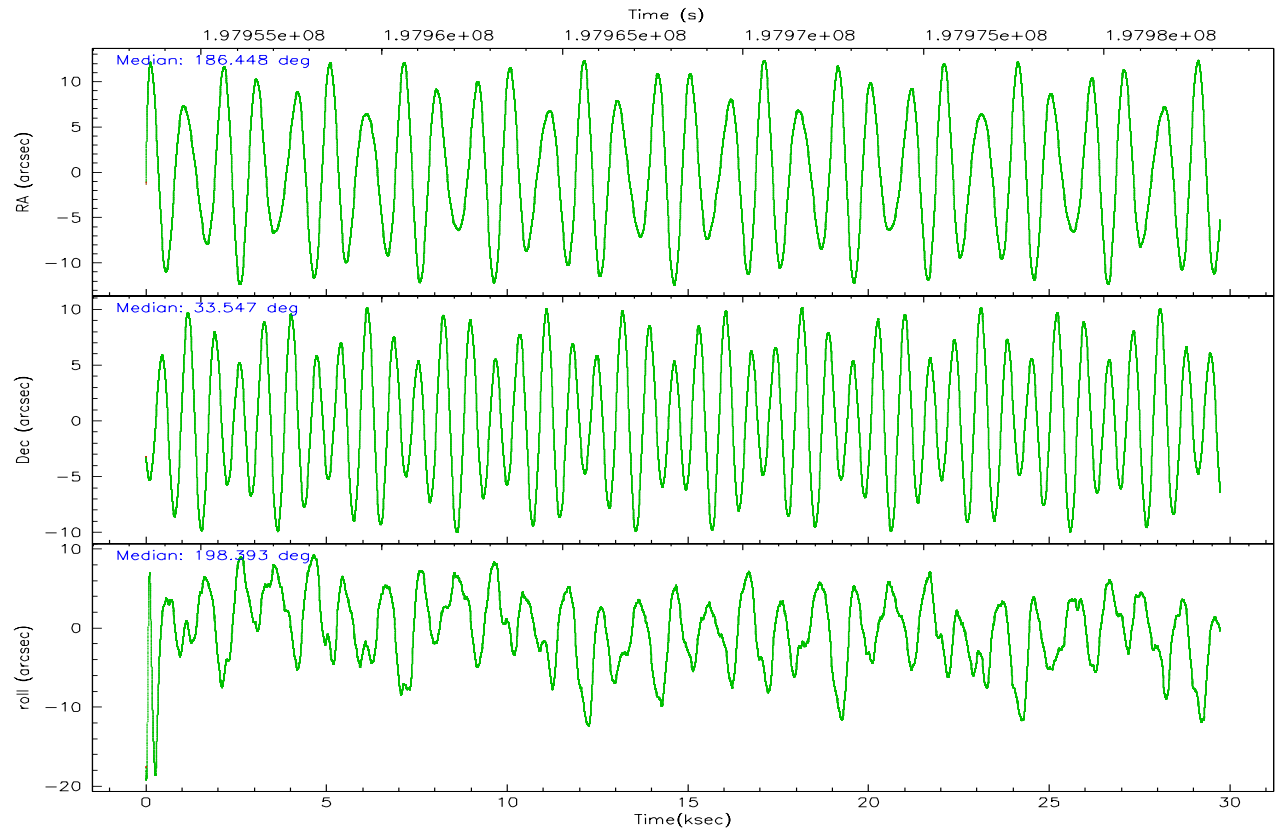
	<b>ccd 7</b>
grade 0 events	2207
	5%
grade 1 events	26
	0%
grade 2 events	4932
	11%
grade 3 events	2273
	5%
grade 4 events	2101
	4%
grade 5 events	2869
	6%
grade 6 events	9872
	22%
grade 7 events	19117
	44%

## 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	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/8	1/8
Pointing RA	186.469494	186.4481391006281	Subarray start row	0	449
Pointing Dec	33.567871	33.54726844541477	Subarray row count	1024	128
Pointing Roll	198.223663	198.392083793661	Alternating exposures requested	N	N
Window start time	197939164.184000	197939164.184000	Primary exposure time	0.000000	0.4
Window stop time	197995684.184000	197995684.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	197953639.184000	197952169.53899			
Observation start date	2004-04-10T03:06:15	2004-04-10T02:42:49			
Observation end time	197983210.184000	197984329.42791			
Observation end date	2004-04-10T11:19:06	2004-04-10T11:38:49			
Read mode	TIMED	TIMED			

## 2.3 Aspect





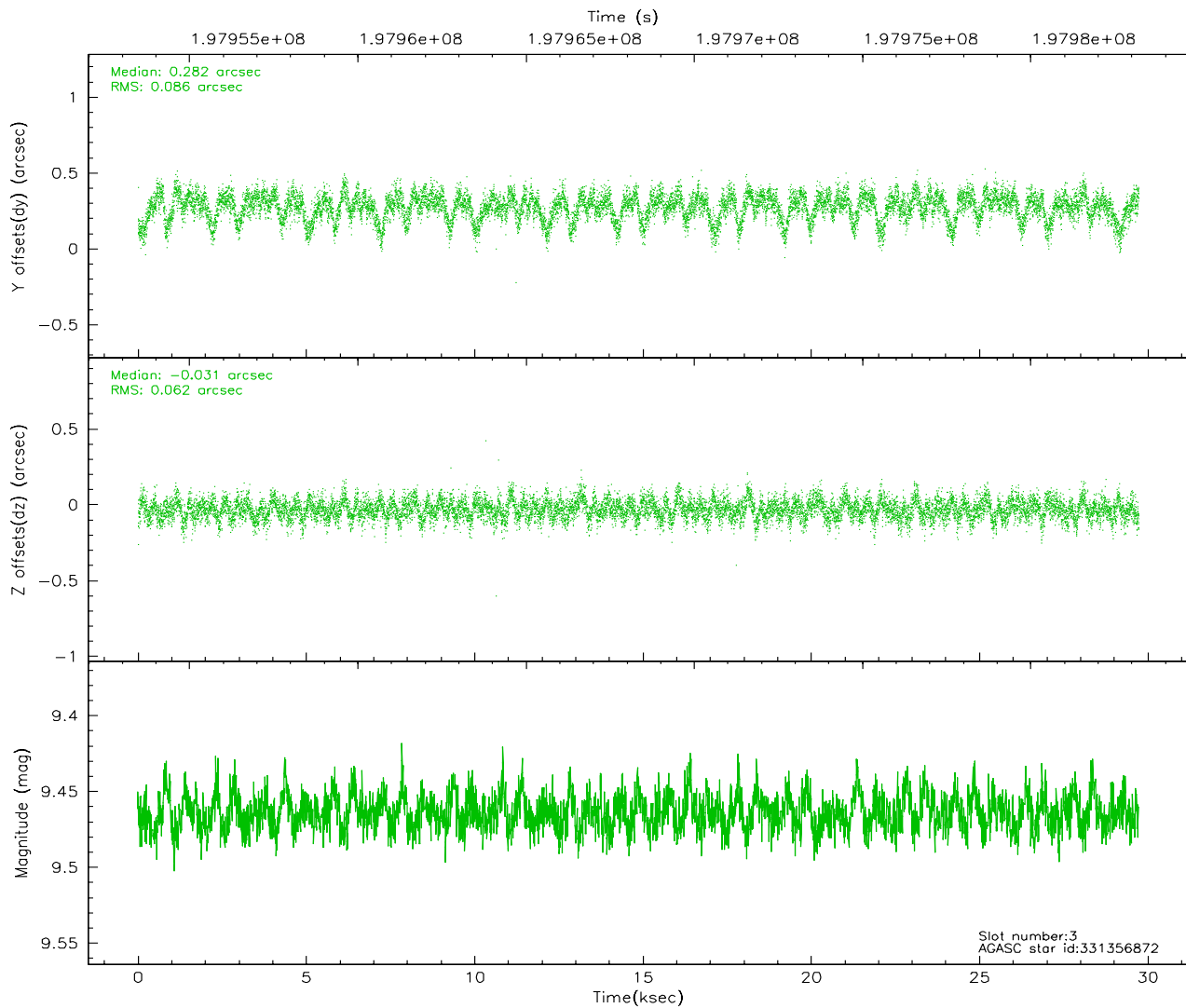
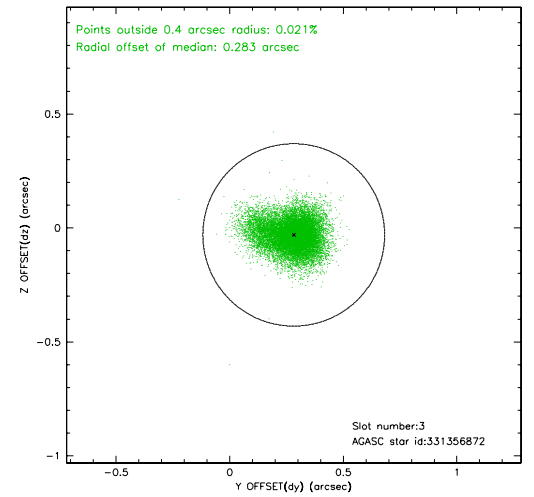
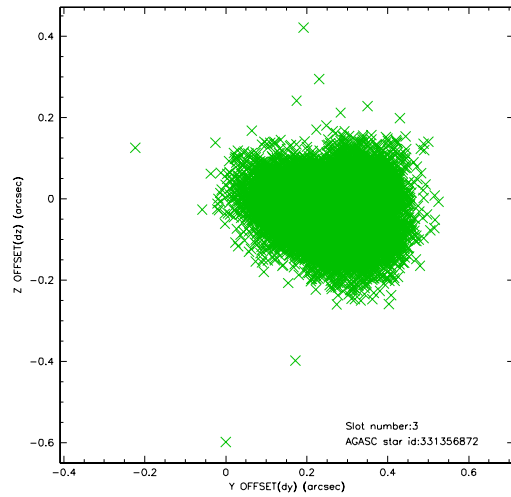
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	7252	-0.002	0.012	0.012	0.045	0.000000	0.000000	936.32	-1726.70
1	FID	ACIS-S-4	7.21	7252	0.012	-0.004	0.010	0.038	0.000000	0.000000	2153.78	177.38
2	FID	ACIS-S-5	7.24	7248	-0.039	0.005	0.010	0.017	0.000000	0.000000	-1812.50	171.05
3	GUIDE	331356872	9.46	14489	0.282	-0.031	0.110	0.188	186.232000	33.528992	720.76	-90.66
4	GUIDE	331359472	9.34	14494	0.092	0.095	0.106	0.175	187.224794	33.172746	-1719.33	2055.34
5	GUIDE	331361424	10.42	14490	0.135	0.054	0.184	0.330	187.160339	33.746695	-2167.71	29.03
6	BAD	331361712	10.84	13403	-0.589	-0.024	0.253	0.391	185.925565	32.976353	2225.33	1505.53
7	GUIDE	331359824	9.90	14494	0.053	-0.097	0.130	0.214	185.748520	33.293976	2367.06	251.12

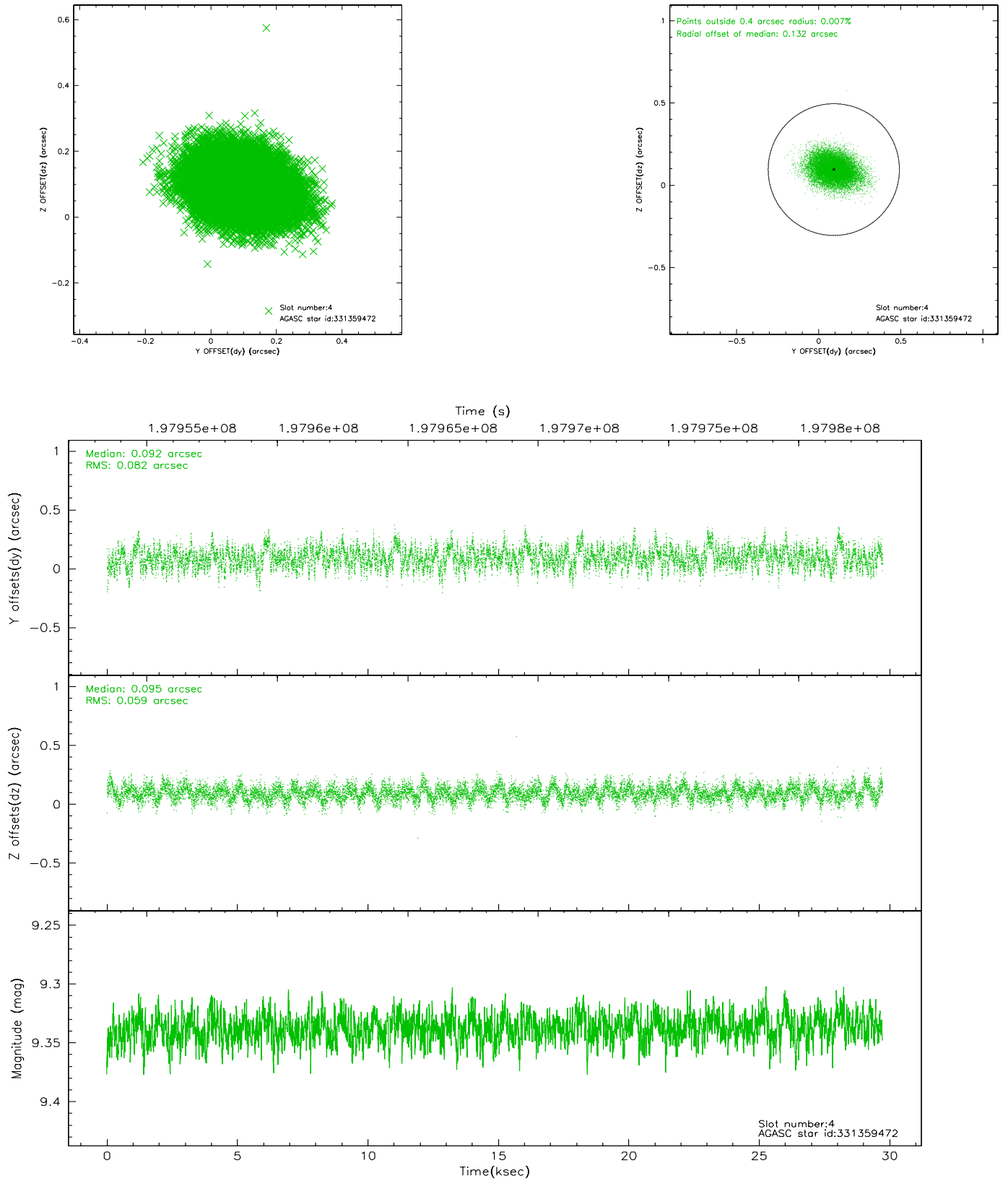


## 2.4 Star Slots

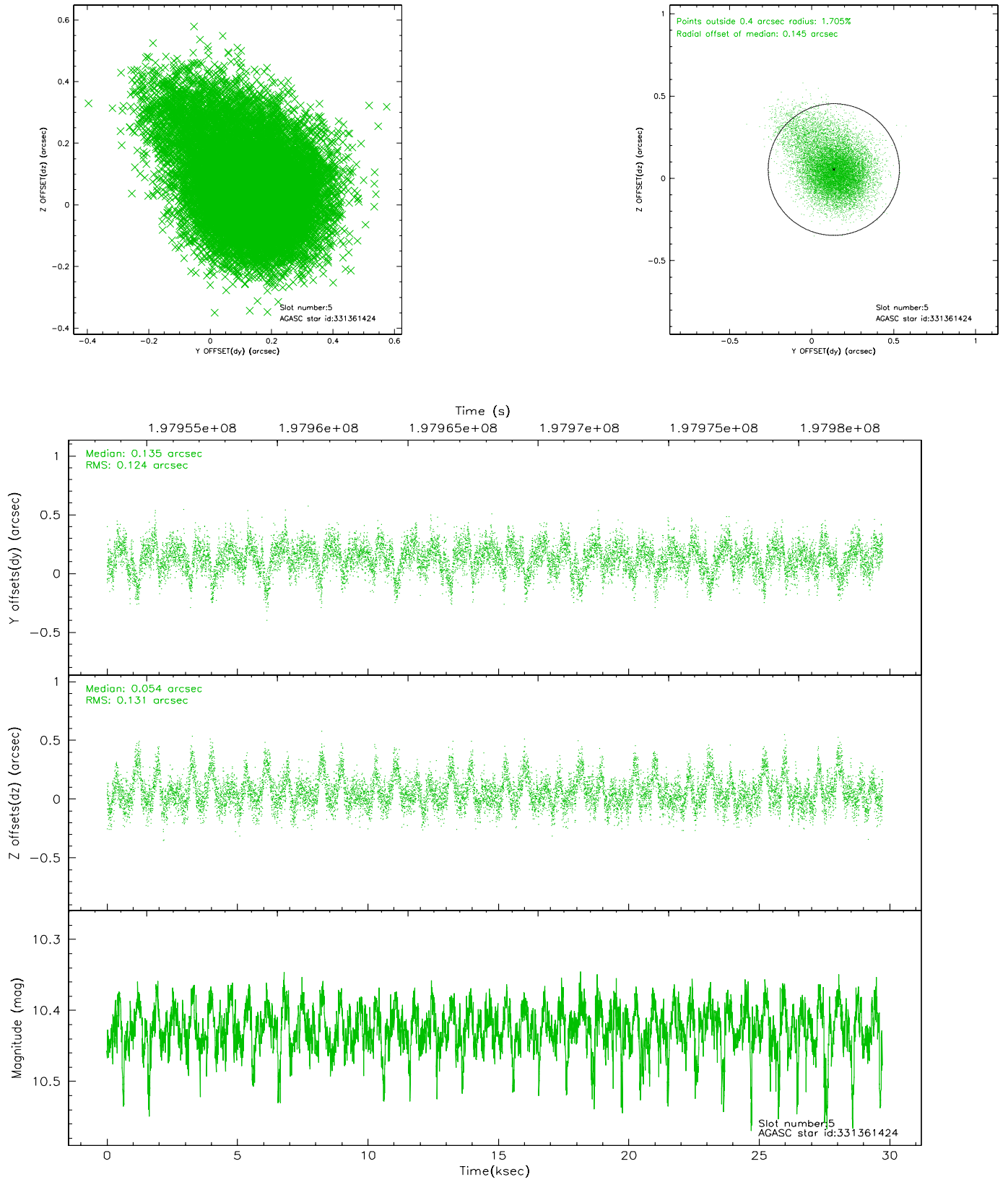
### 2.4.1 Slot 3



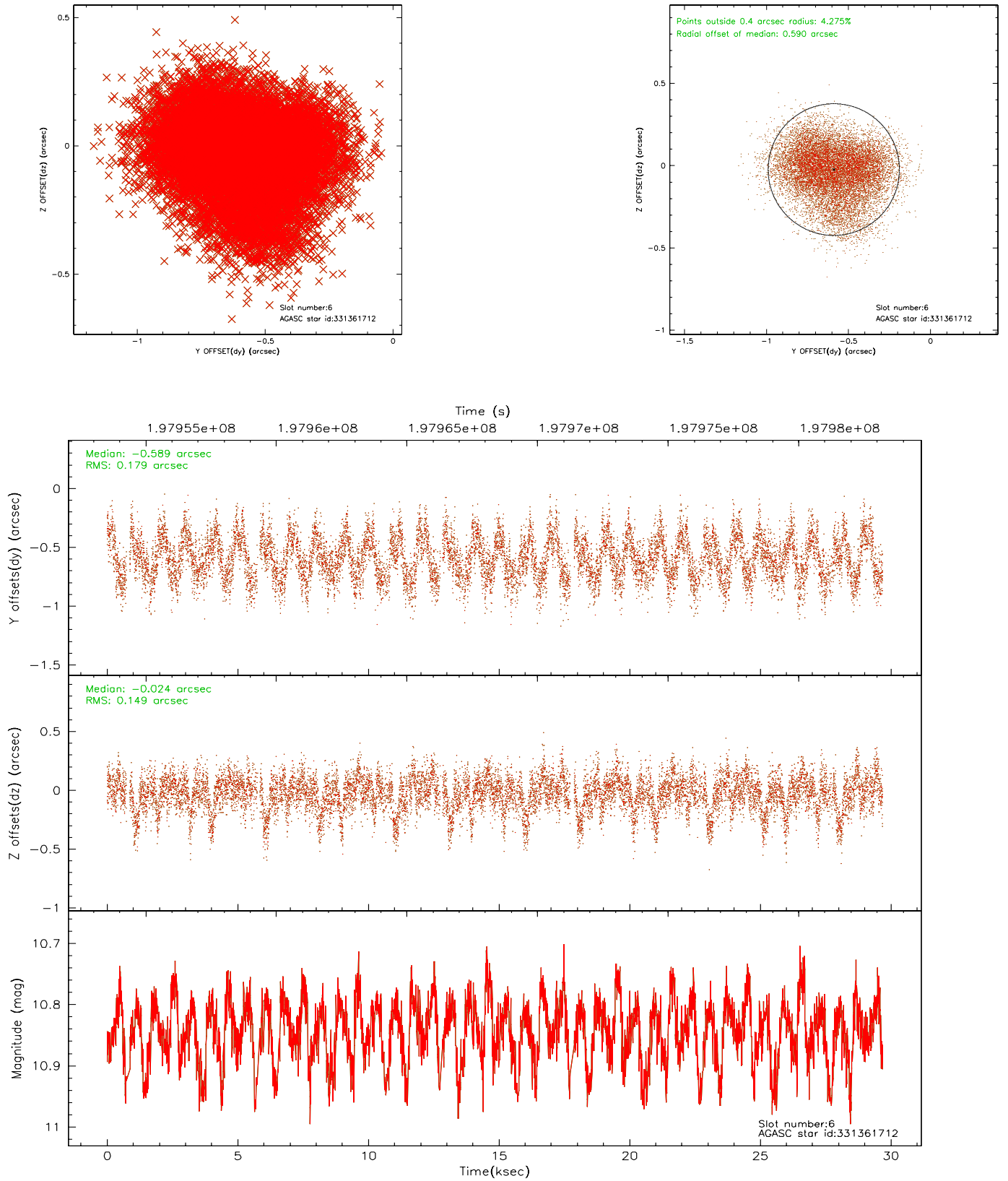
## 2.4.2 Slot 4



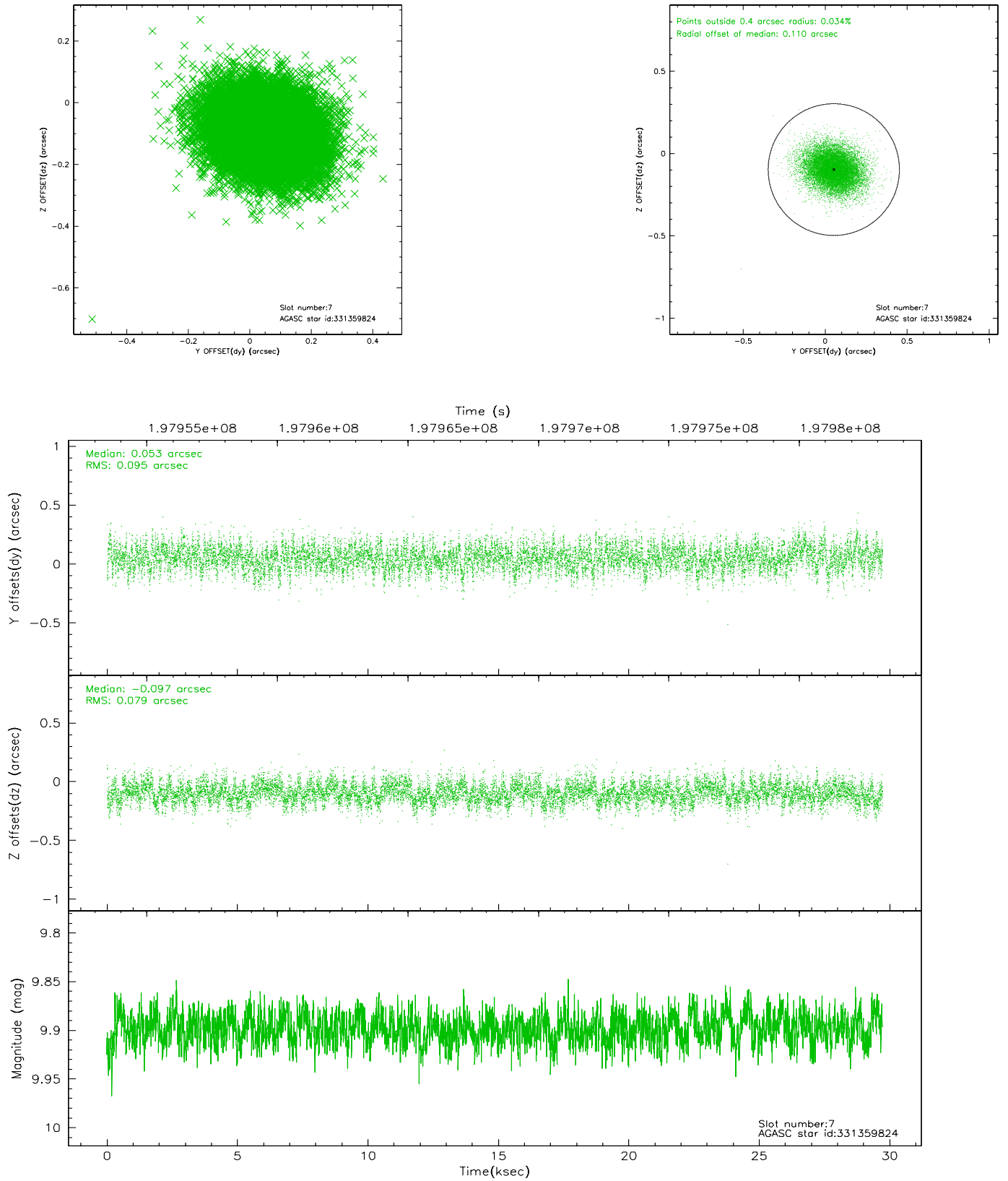
### 2.4.3 Slot 5



## 2.4.4 Slot 6

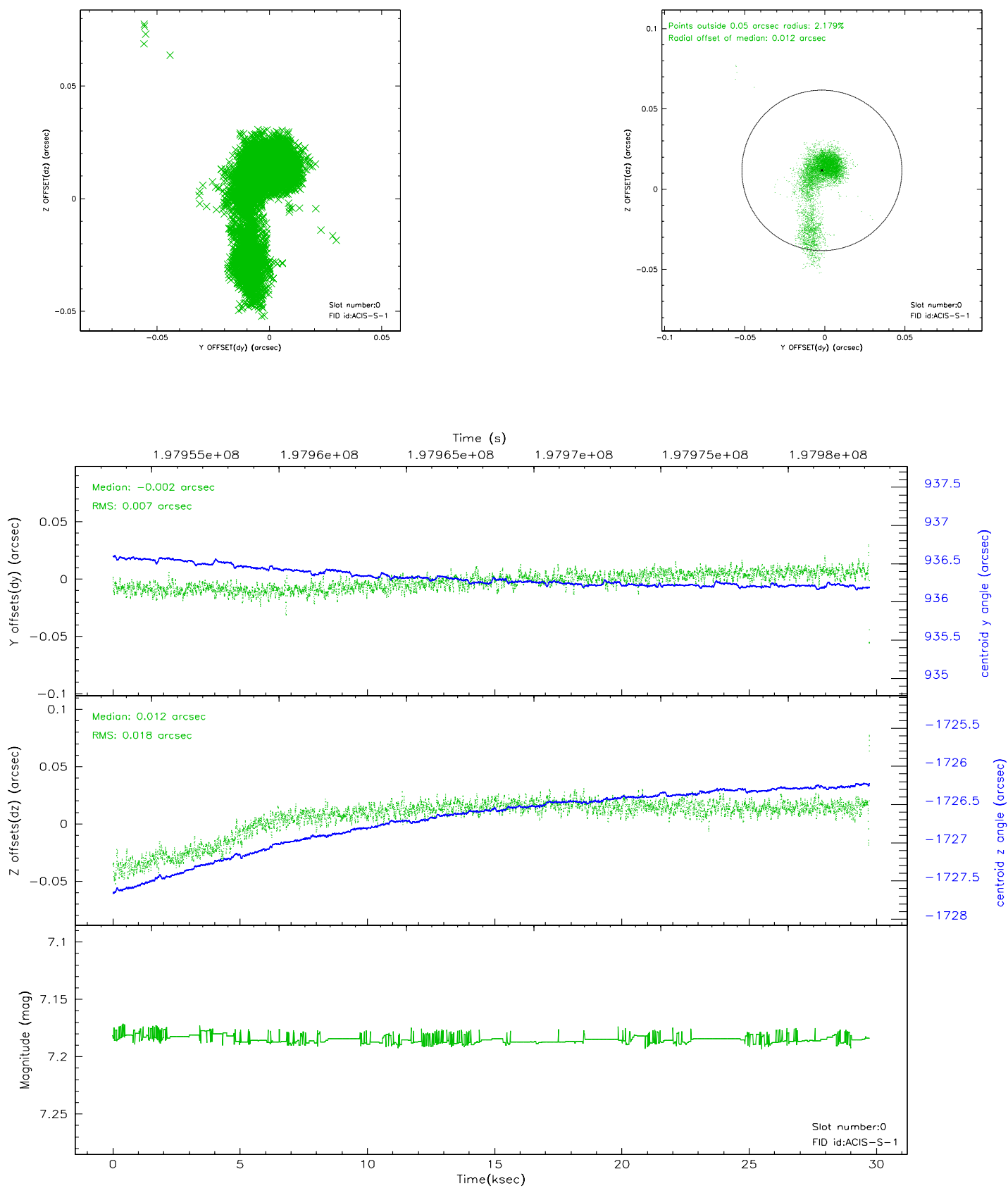


## 2.4.5 Slot 7

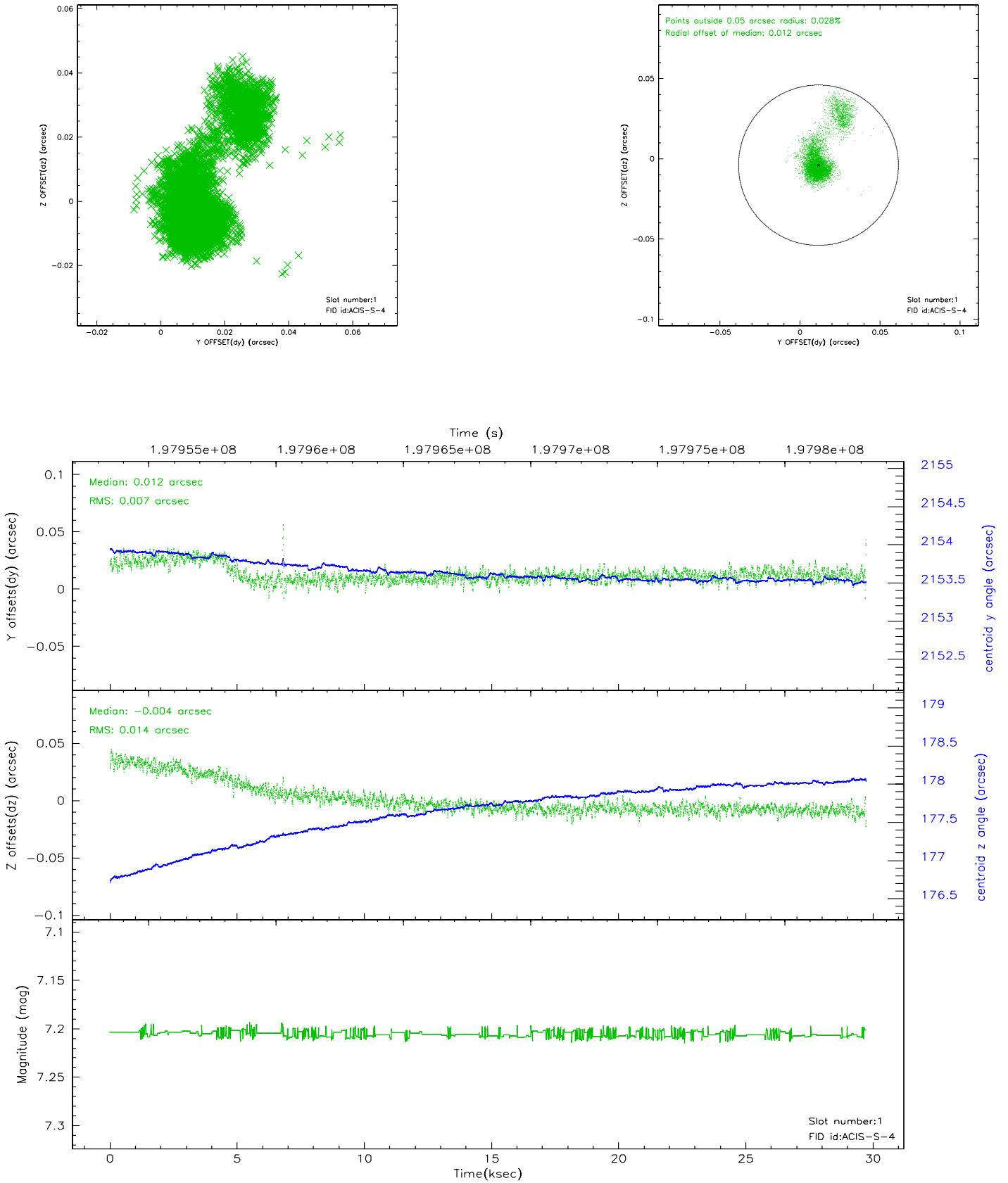


## 2.5 FID Slots

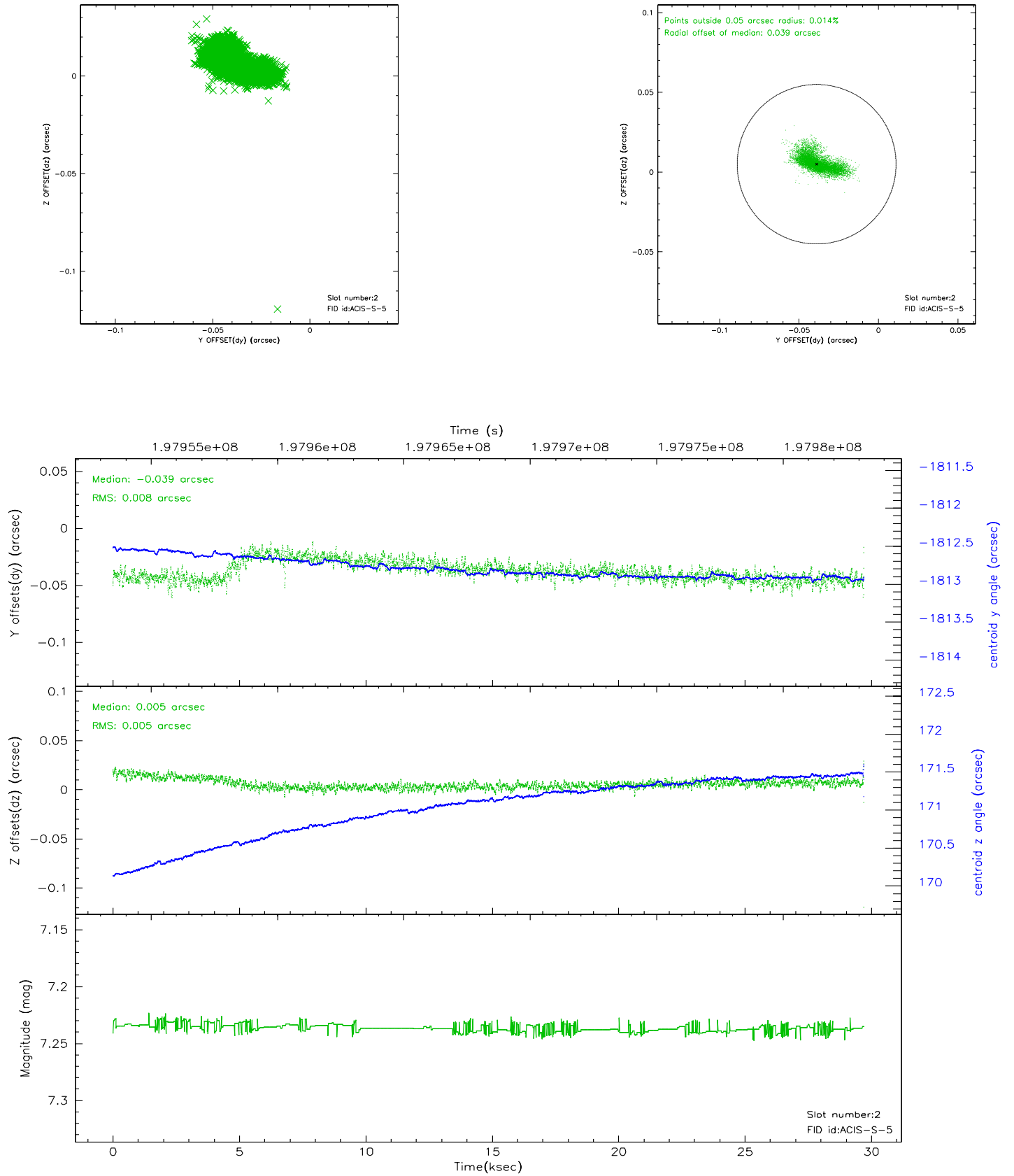
### 2.5.1 Slot 0



## 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)	2006.05.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.73

### A.2 Comments

Window constraint satisfied.

Slot 6 was not included in aspect solution.