

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 5175 - L2 Version 5  
Chandra X-Ray Center

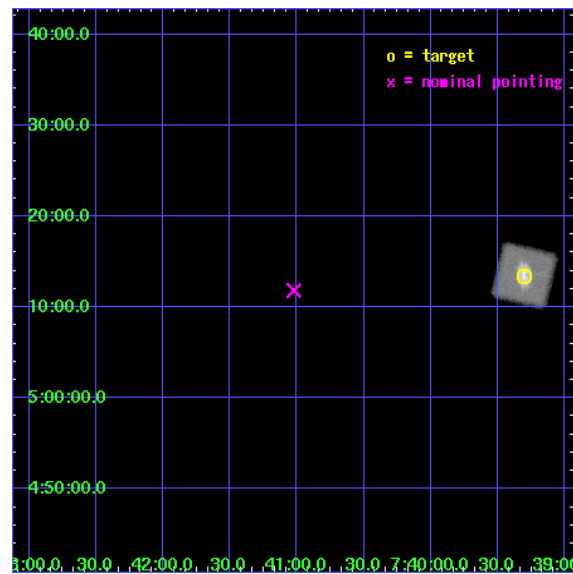
L2 Processing Date : Feb 5 2009

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# 1 Front

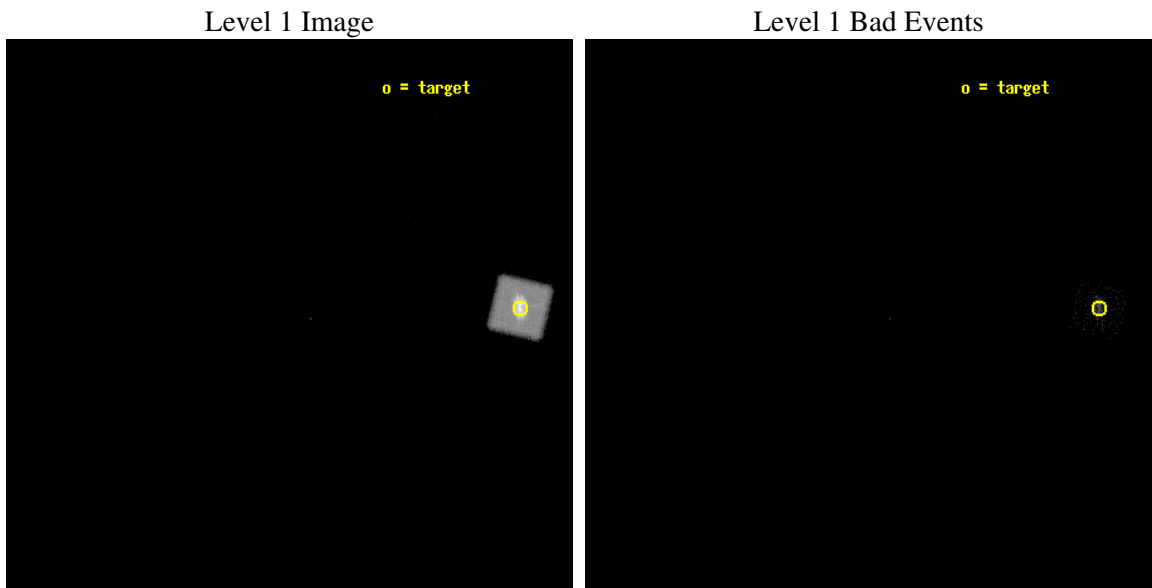
seq_num	990003
obs_id	5175
title	AO5 Calibration Observations of the ACIS charged particle background
observer	Dr. CXC Calibration
object	Procyon
ra_targ	114.8245
dec_targ	5.223583
ra_nom	115.25574185218
dec_nom	5.1974406669236
roll_nom	58.555604573859
revision	5
ontime	46510.402094364
livetime	46356.069233444
l2events	96501



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.11.10
caldbver	3.5.1
date	2009-02-05T07:32:42
revision	5

sched_exp_time	47000.000000
ontime	46543.202094376
l1events	120552

### 2.1.3 Events

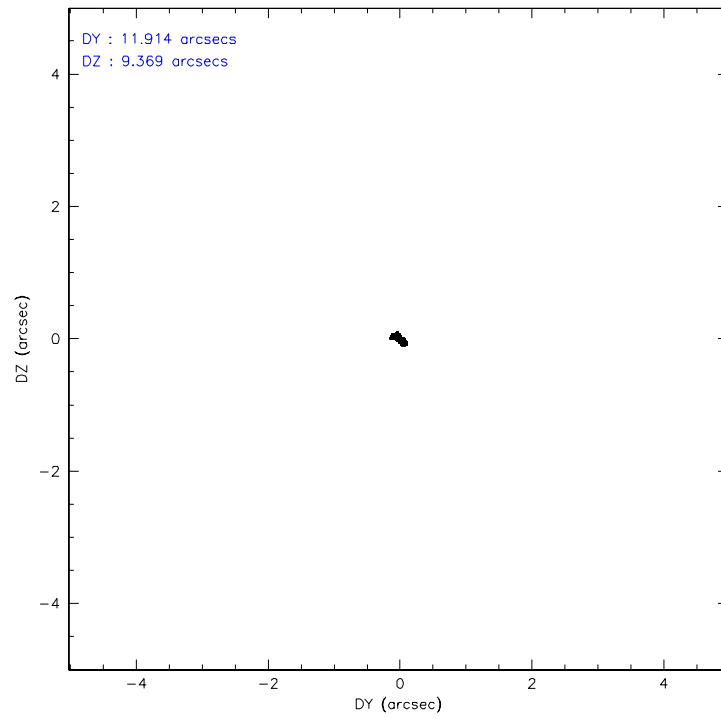
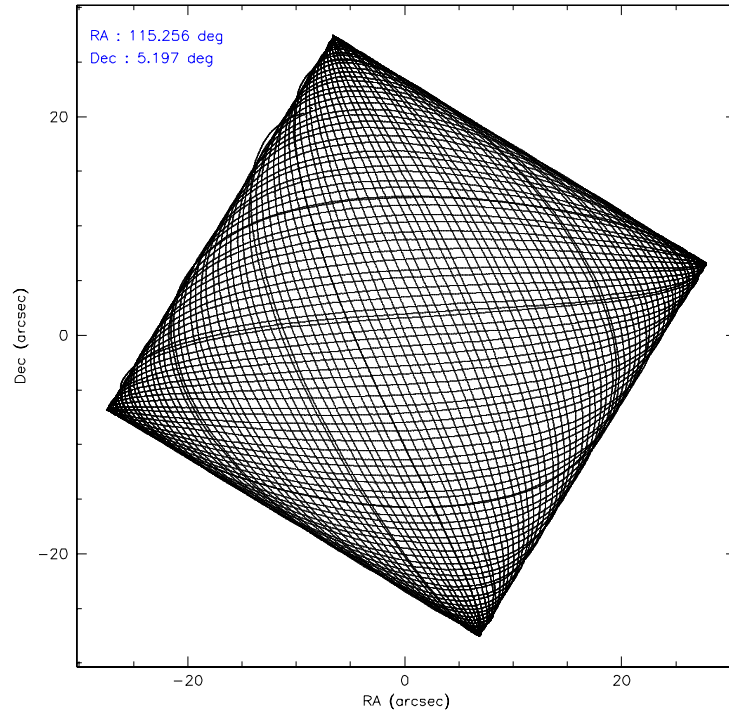
#### Level 1 Events

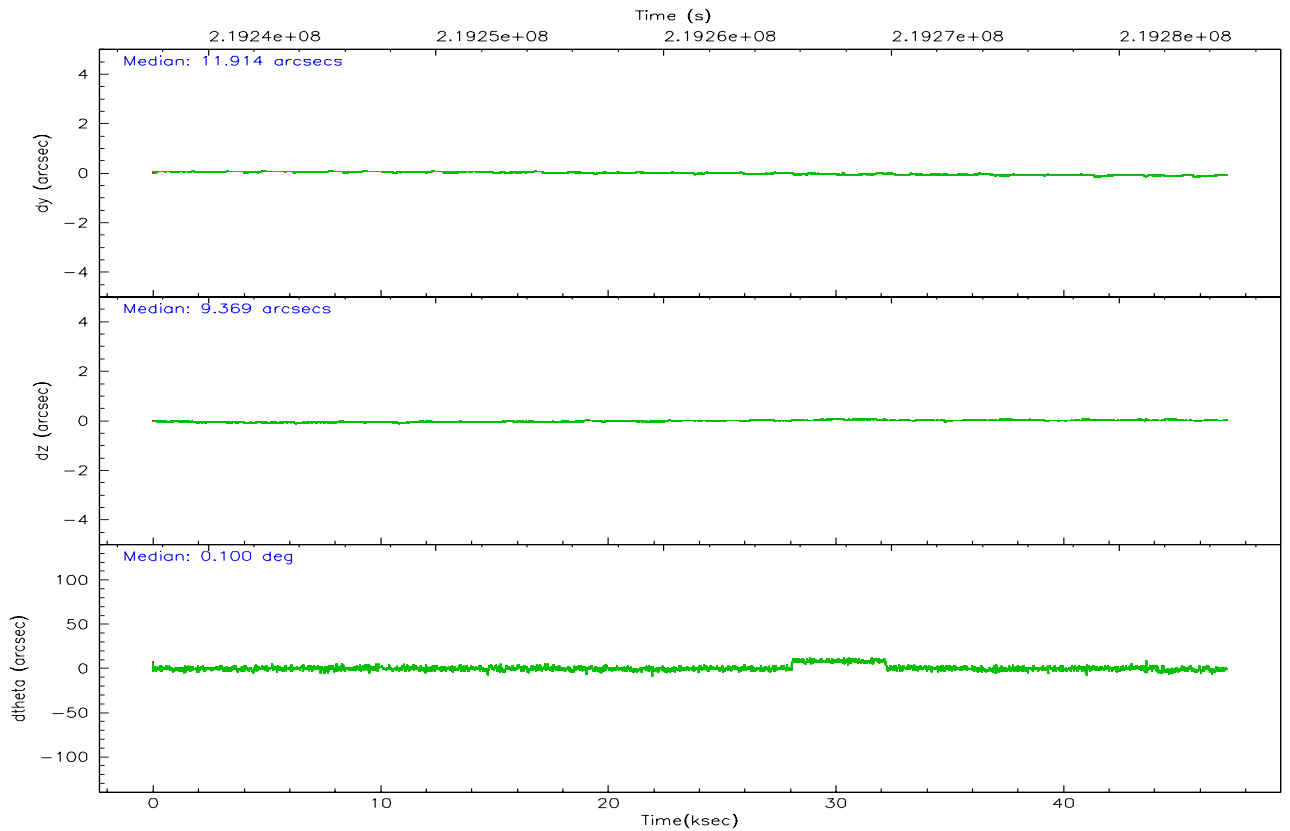
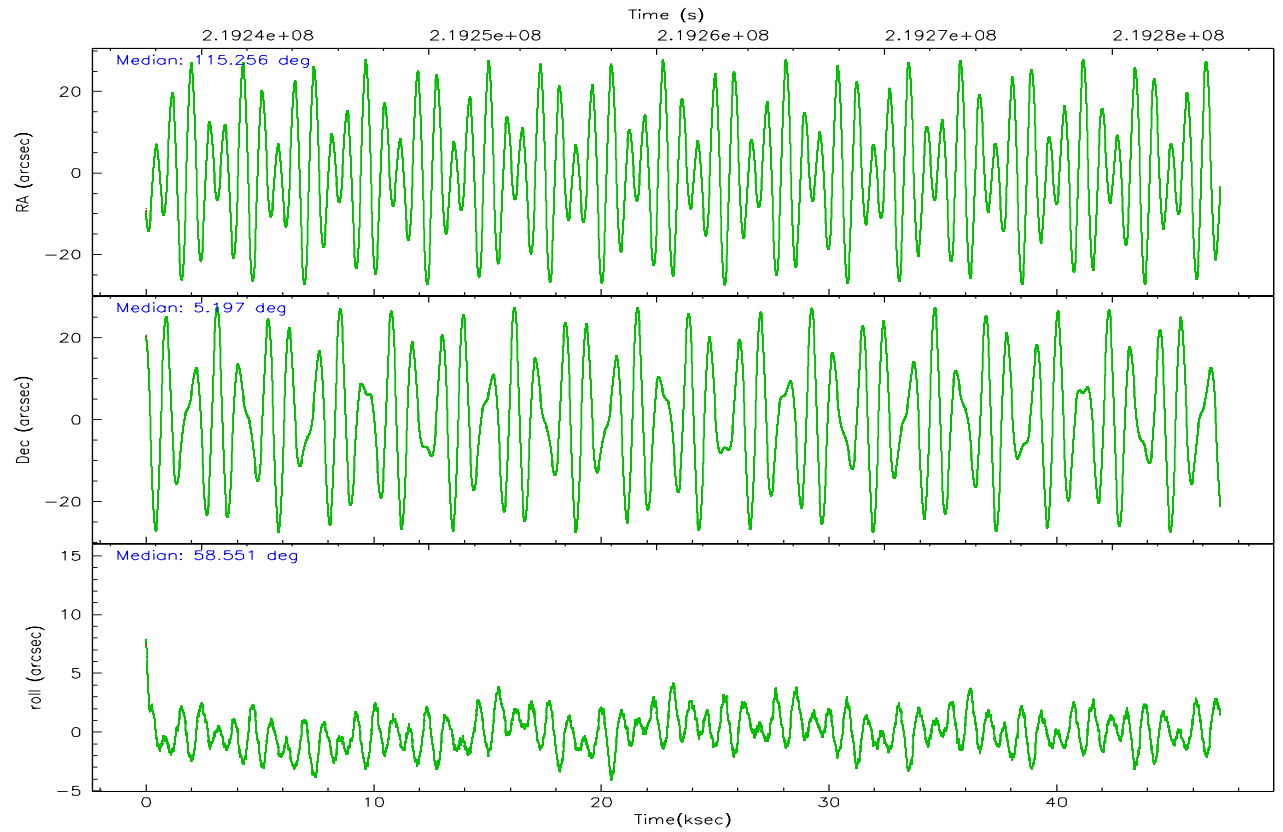
	<b>segment 0</b>
level 1 events	120552
rejected events	2388
rejected %	1%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	NEXT_IN_LINE	NEXT_IN_LINE			
Observation mode	POINTING	POINTING			
Pointing RA	115.2557418521788	115.2557418521788			
Pointing Dec	5.197440666923644	5.197440666923644			
Pointing Roll	58.55560457385924	58.55560457385924			
Window start time	215654464.184000	215654464.184000			
Window stop time	220838464.184000	220838464.184000			
SIM focus pos (mm)	-1.038866356238299	-1.038866356238299			
SIM defocus (mm)	0.00142623211714632	0.00142623211714632			
SIM translation stage pos (mm)	51.9960404362608	51.9960404362608			
SIM translation stage offset (mm)	74.989453869027	74.989453869027			
Observation start time	219237161.184	219237161.184			
Observation start date	2004-12-12T11:21:32	2004-12-12T11:12:41			
Observation end time	219284757.48812	219284757.48812			
Observation end date	2004-12-13T00:24:52	2004-12-13T00:25:57			

## 2.3 Aspect





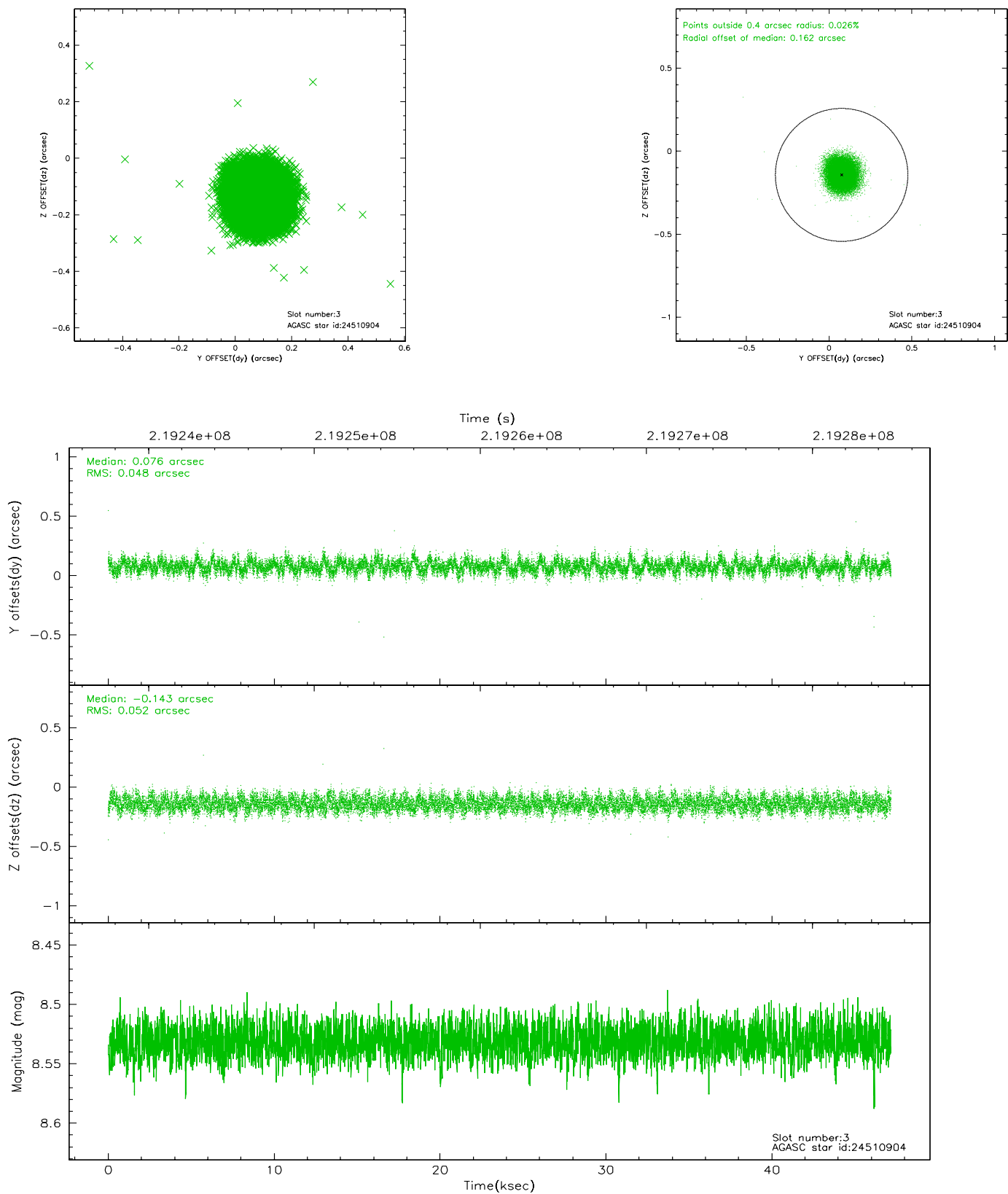
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.90	11508	-0.628	-0.028	0.005	0.013	0.000000	0.000000	-766.31	240.59
1	FID	HRC-I-2	7.03	11509	0.707	-0.026	0.005	0.013	0.000000	0.000000	844.51	241.62
2	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	24510904	8.53	23008	0.076	-0.143	0.076	0.119	115.291057	5.593366	1366.67	684.13
4	GUIDE	24521432	7.59	23015	0.017	0.116	0.061	0.097	115.643922	4.823397	-341.41	-1838.75
5	GUIDE	24522960	7.84	23020	0.019	0.158	0.060	0.096	115.195385	5.000625	-634.13	-133.03
6	GUIDE	24525600	8.30	23014	0.069	-0.119	0.077	0.122	114.573999	4.942945	-1969.99	1662.68
7	GUIDE	25039776	8.64	22996	-0.185	-0.012	0.061	0.099	115.184333	5.805632	1820.02	1408.43

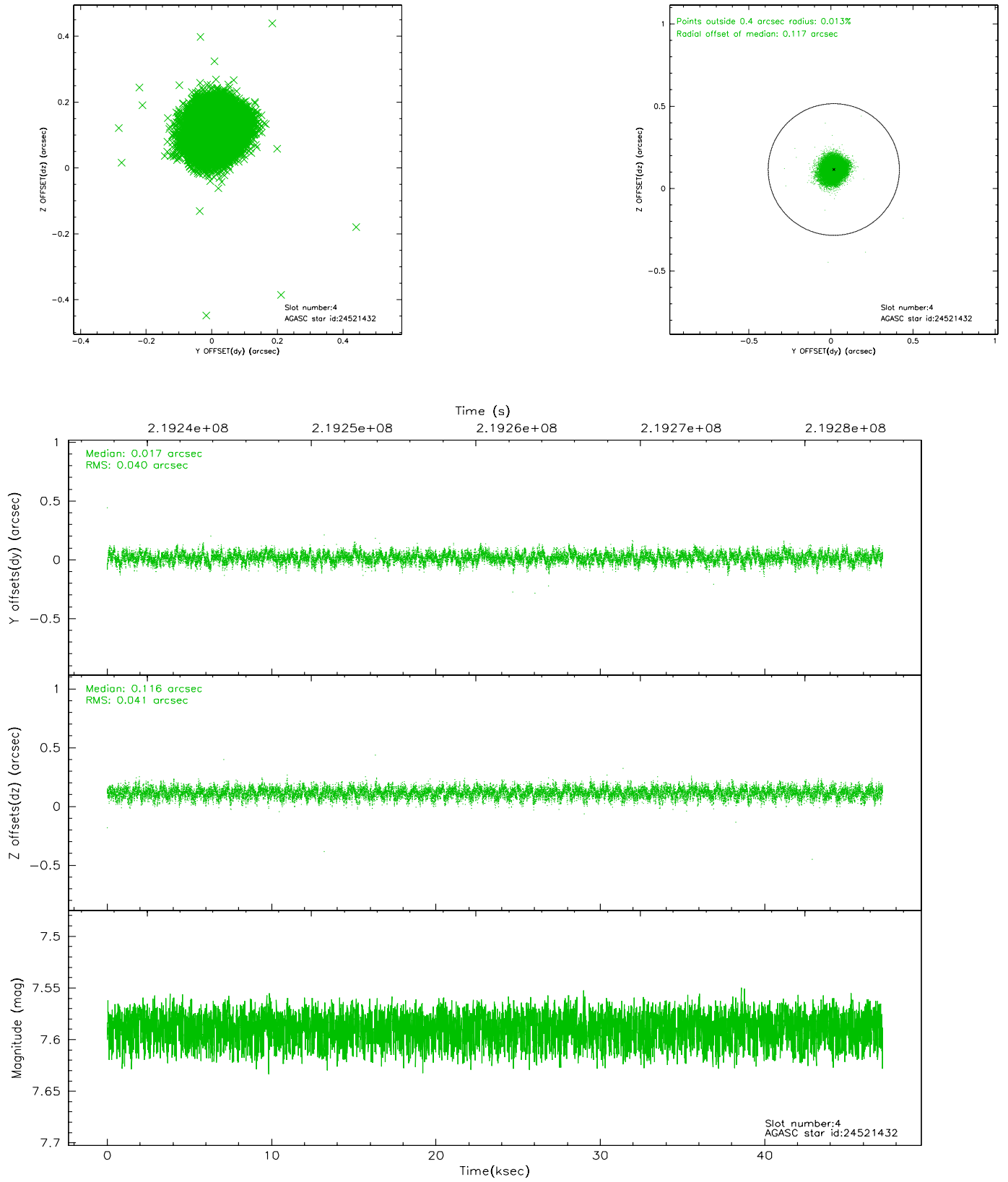


## 2.4 Star Slots

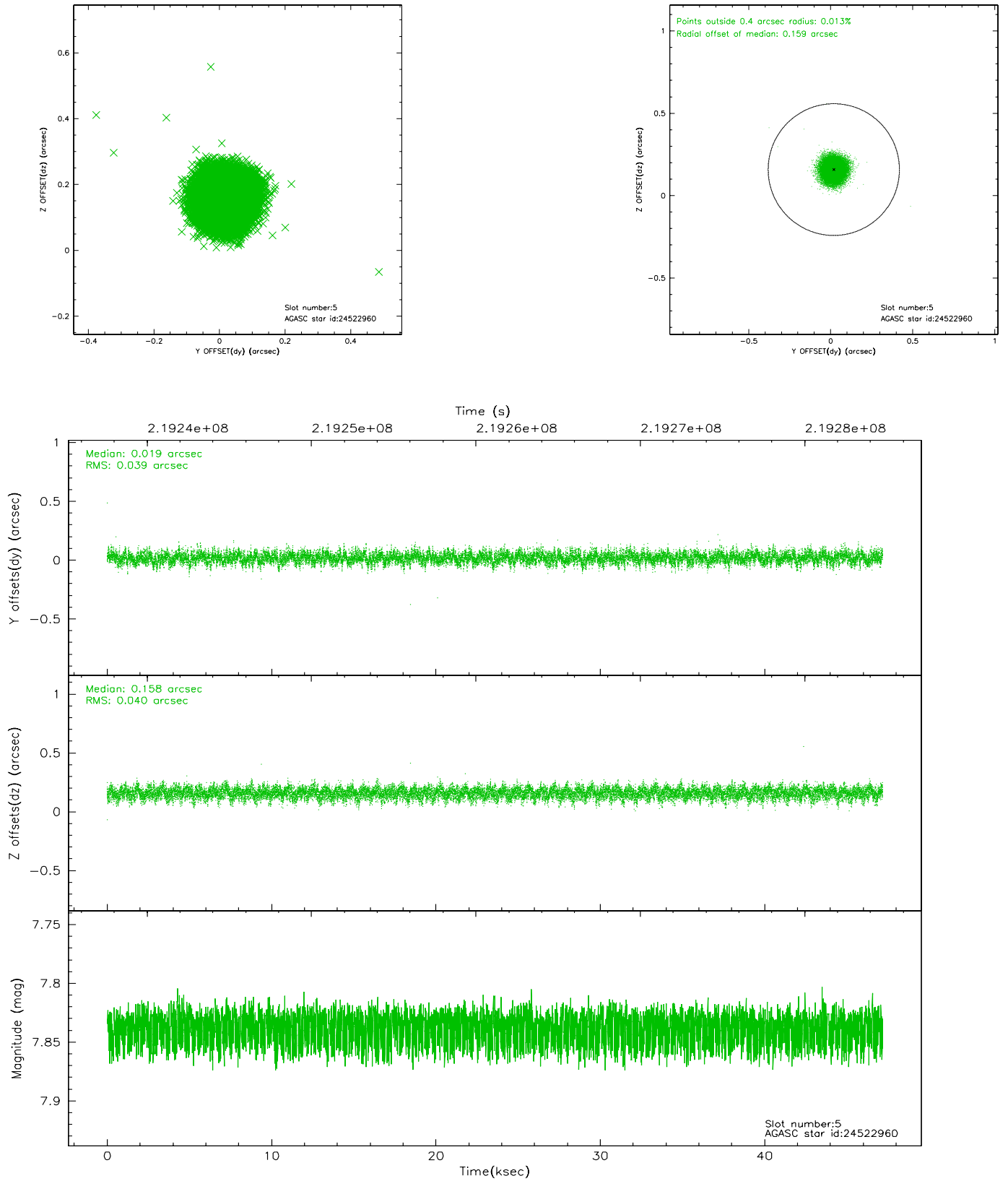
### 2.4.1 Slot 3



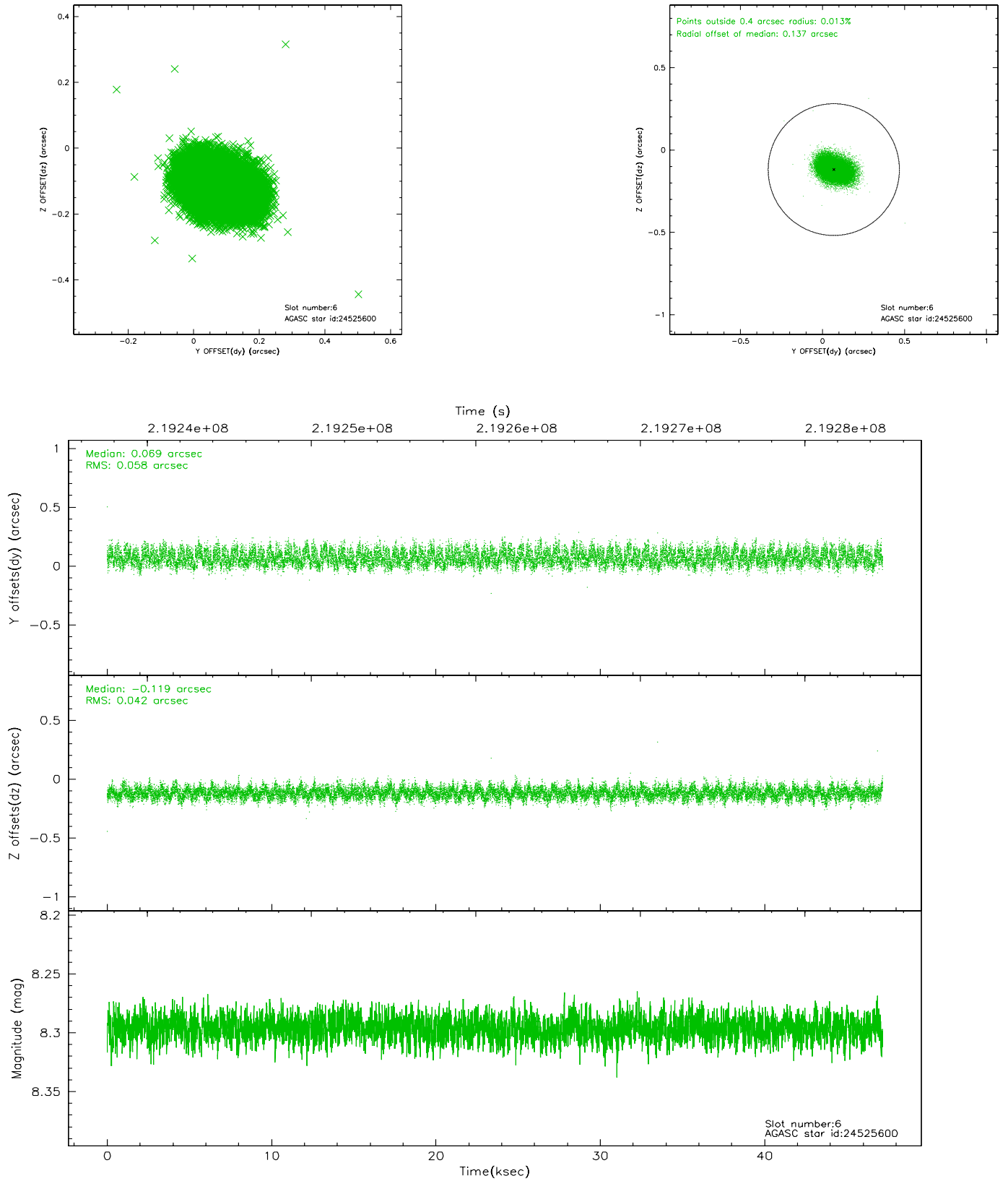
## 2.4.2 Slot 4



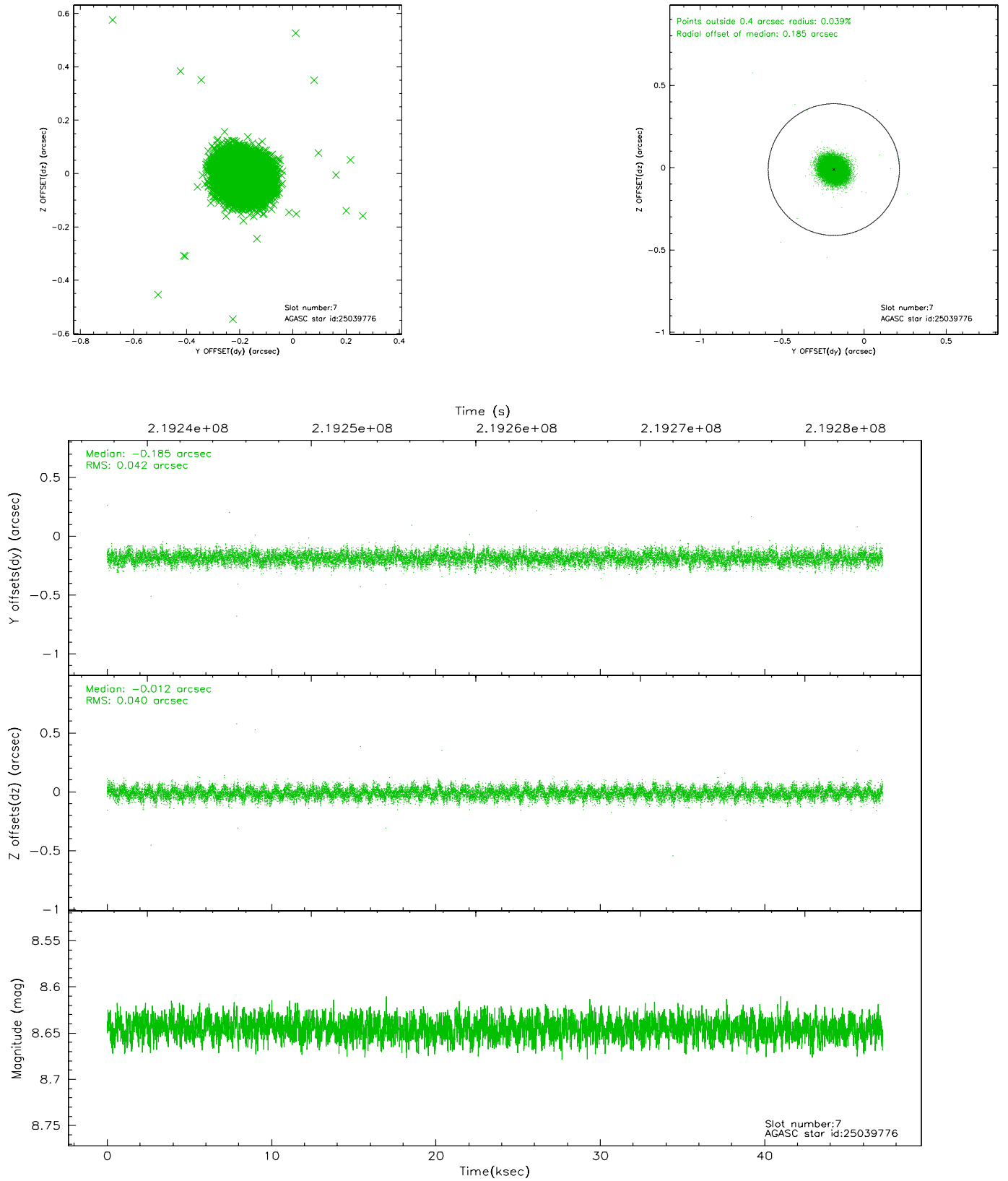
### 2.4.3 Slot 5



## 2.4.4 Slot 6

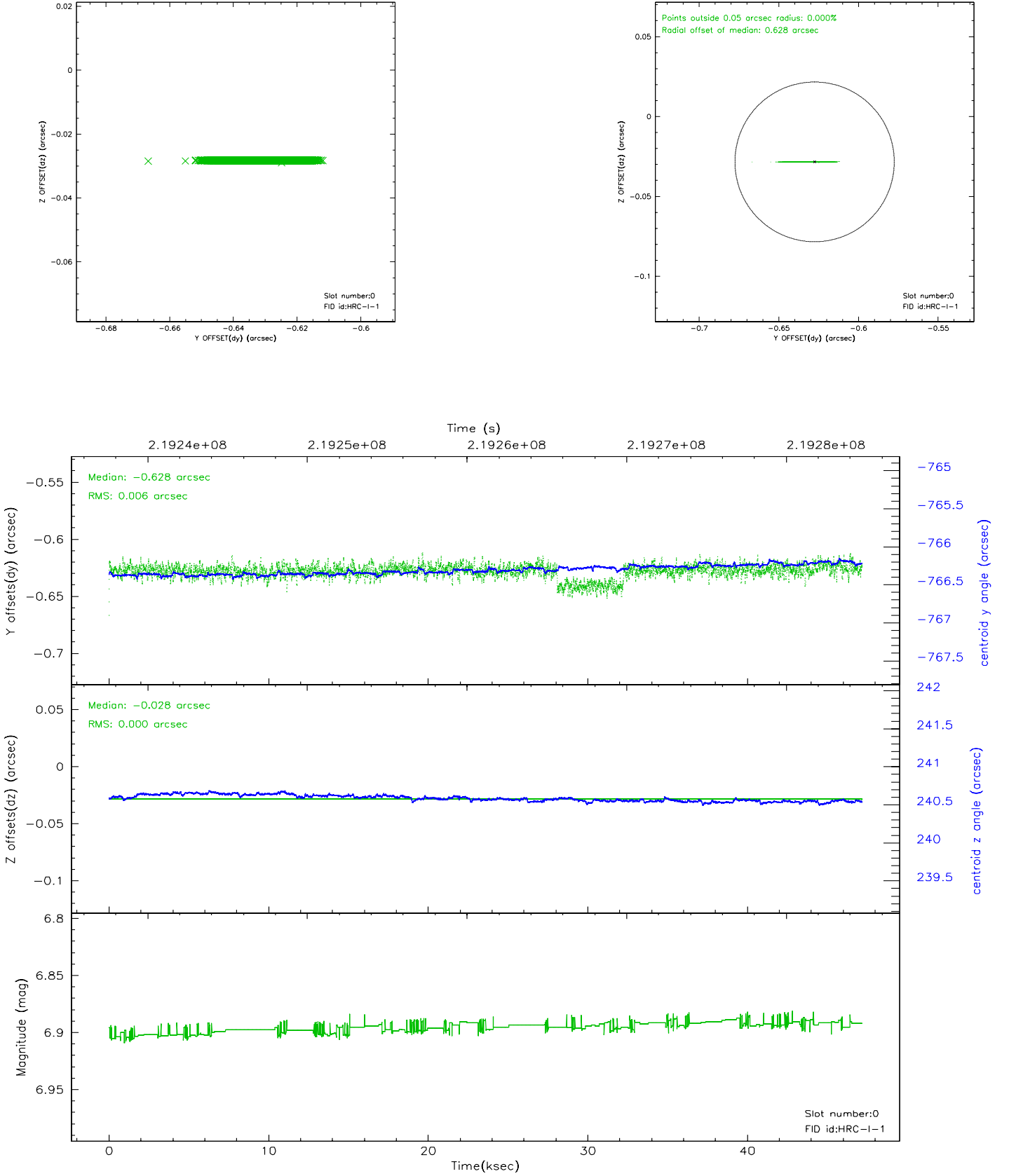


## 2.4.5 Slot 7

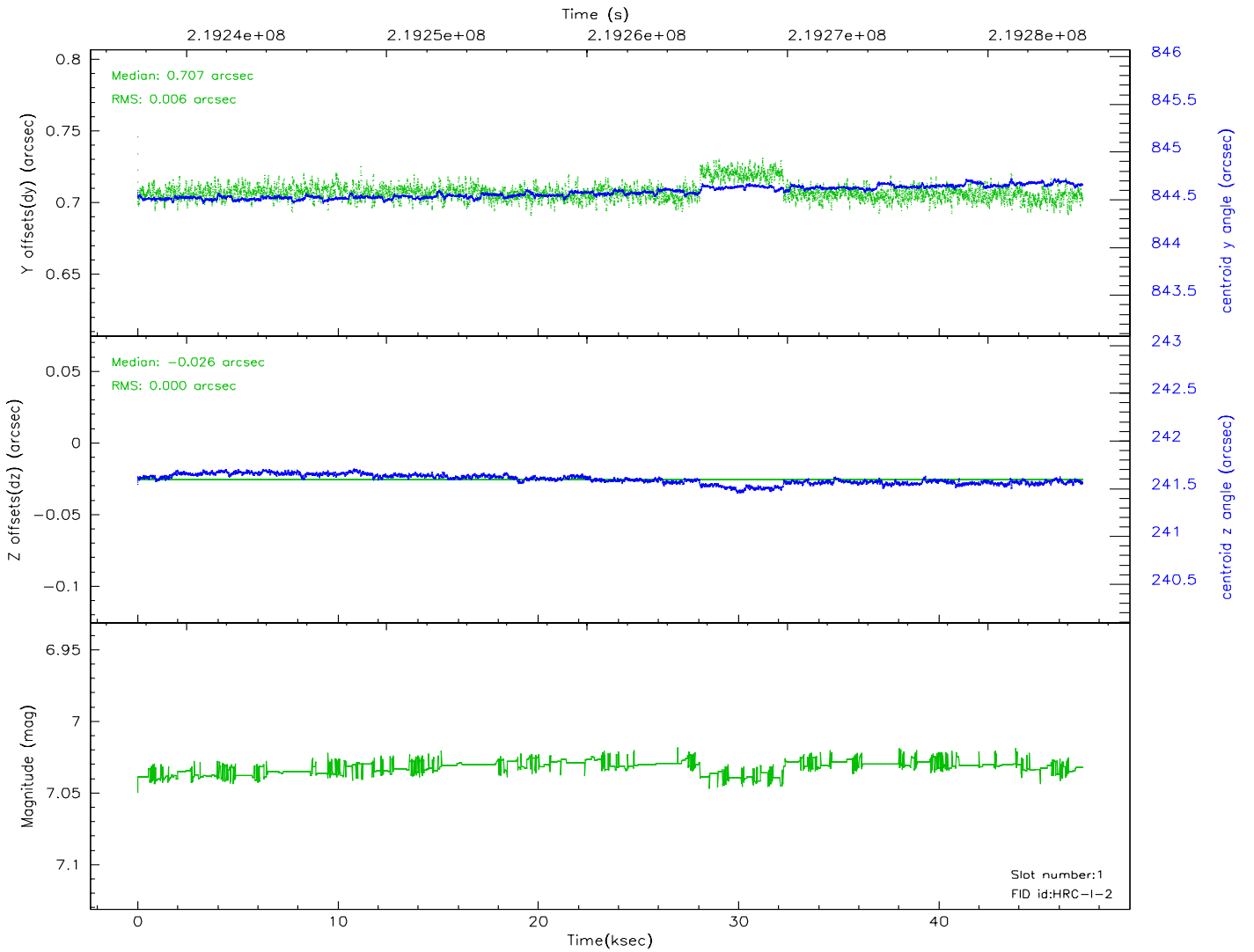
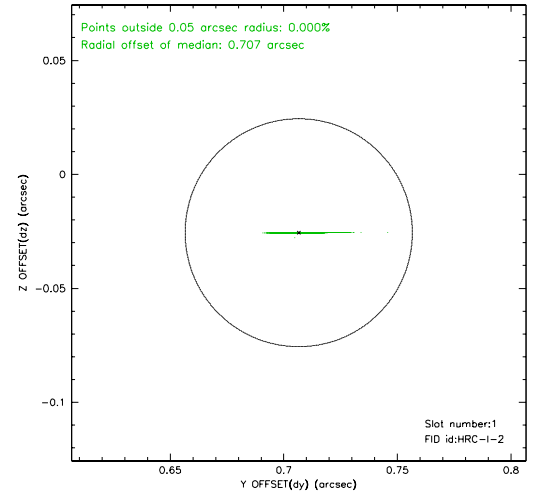
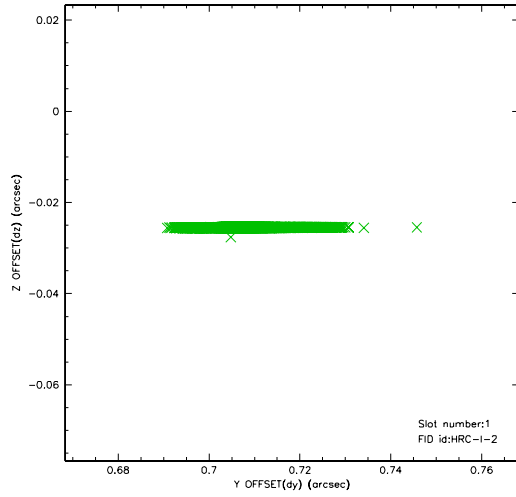


## 2.5 FID Slots

### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2009.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.596

## A.2 Comments

Fid in slot two is not used in the aspect solution. The large offsets of the other two fidlights are due to the next\_in\_line configuration of the detector. Window constraint met. Charge time for this ObsId remains at previous value of 47.596 ks. Charge time was allocated on the basis of total event collection time between this and the accompany ACIS part of the observation.

This obsid was reprocessed to correct minor errors in parameters used in processing. Some of these parameters cannot be determined automatically for this observation and were derived from spacecraft telemetry.