

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5121 - L2 Version 002  
Chandra X-Ray Center

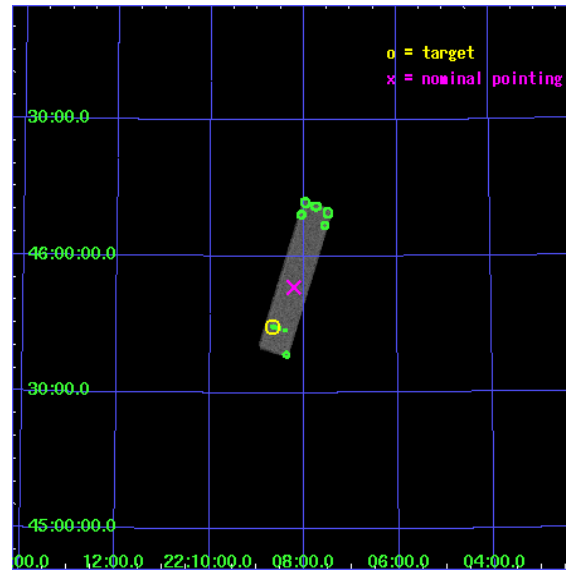
L2 Processing Date : Apr 11 2006

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# 1 Front

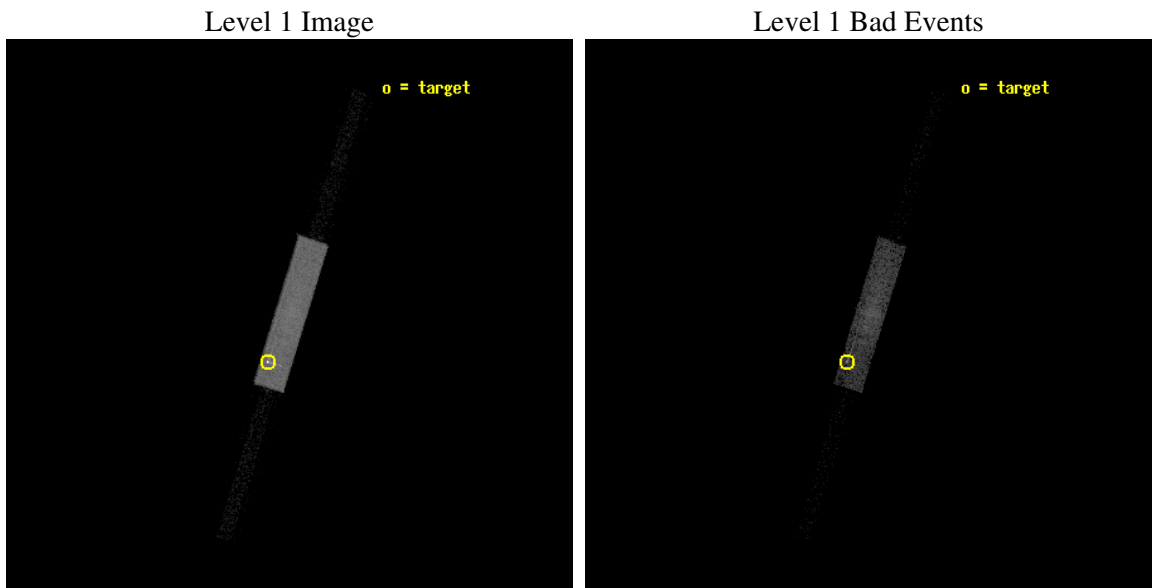
seq_num	290394
obs_id	5121
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.05436130799
dec_nom	45.887061798636
roll_nom	287.16211049623
revision	2
ontime	1052.6750472784
livetime	1045.8663381076
l2events	43001



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-11T16:12:09
revision	2

sched_exp_time	900.000000
ontime	1081.3750485778
l1events	77335

### 2.1.3 Events

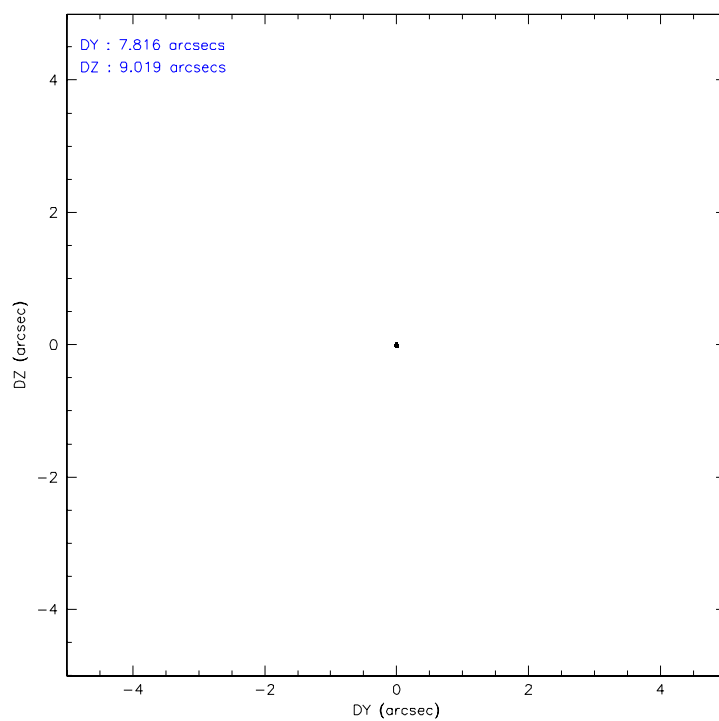
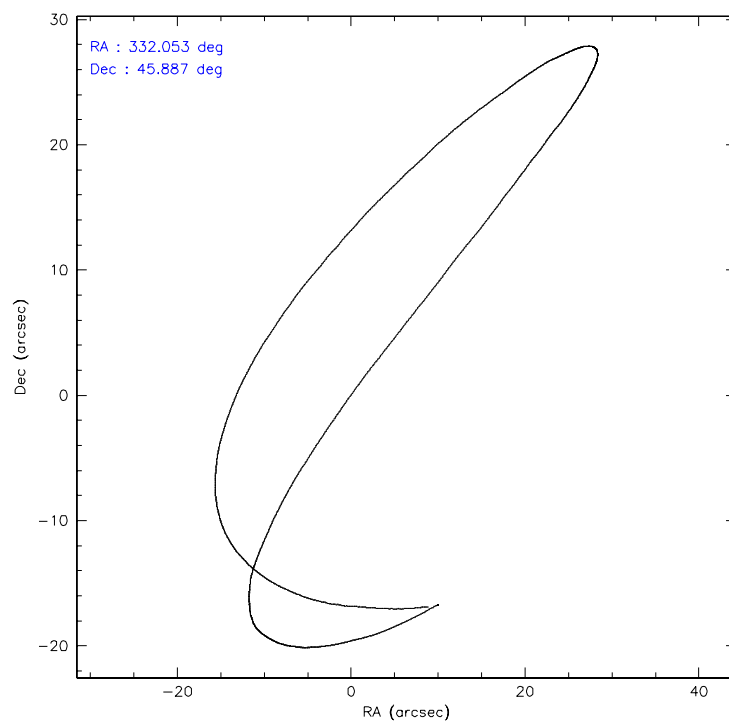
Level 1 Events

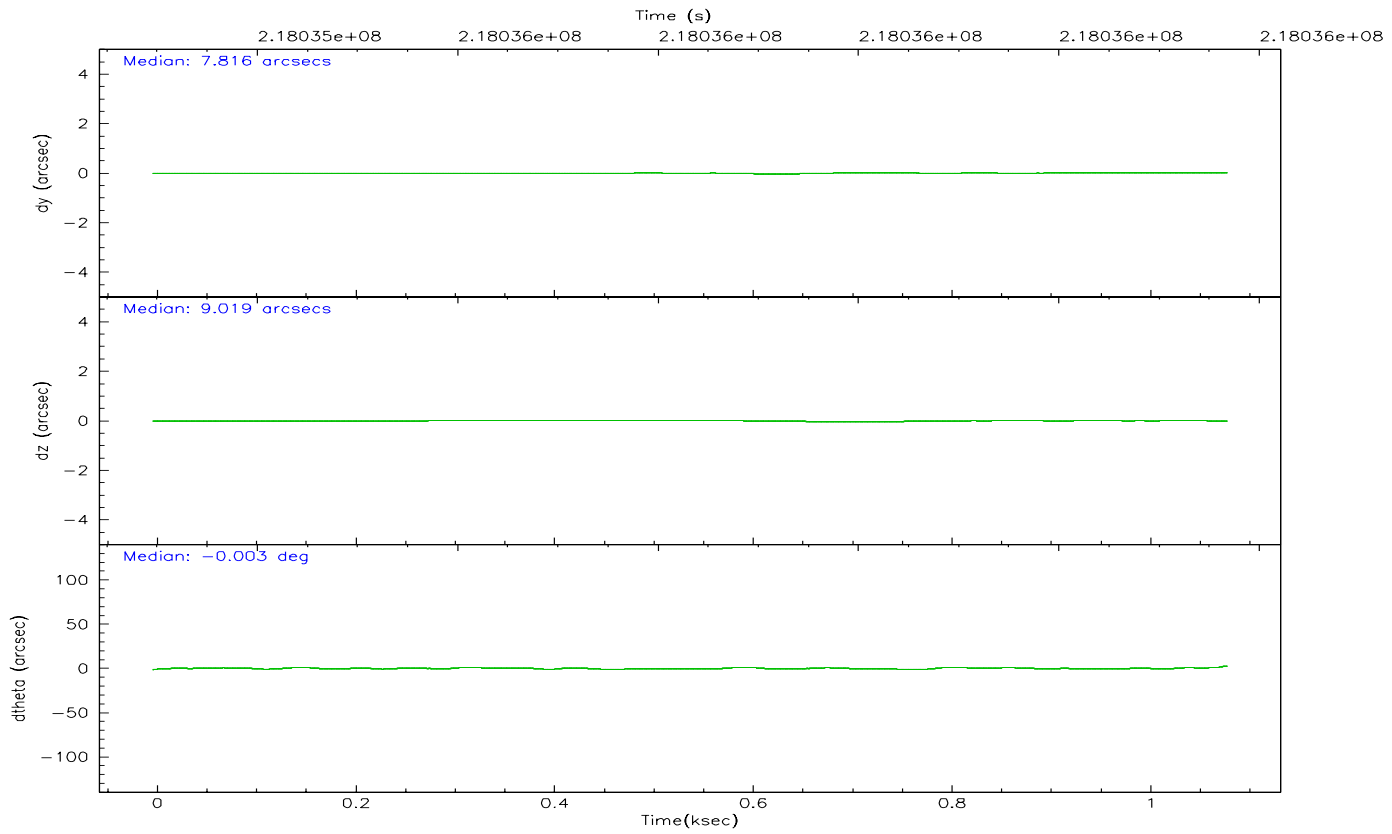
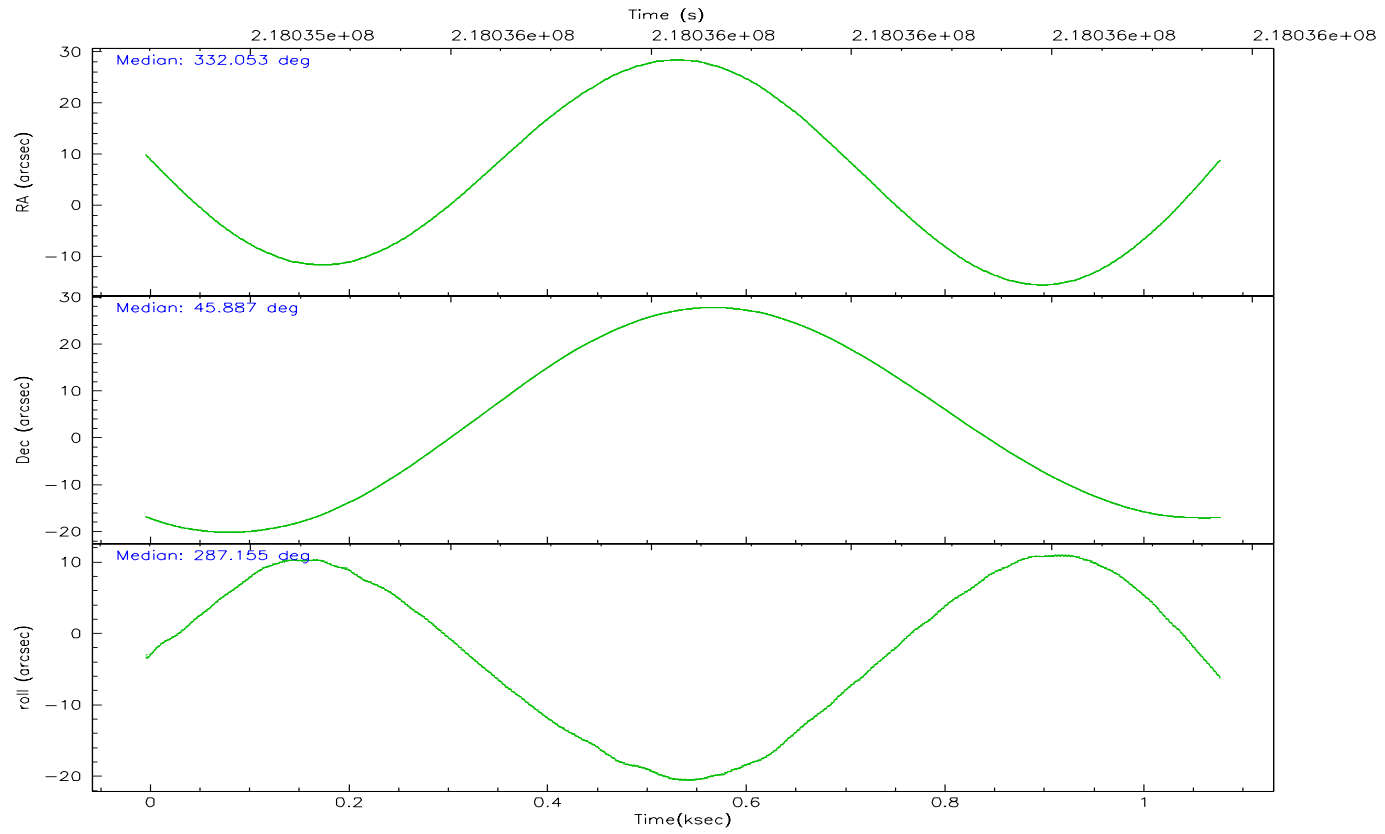
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	809	75758	768
rejected events	809	29372	768
rejected %	100%	38%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	332.024454	332.0543613079887			
Pointing Dec	45.905735	45.88706179863617			
Pointing Roll	287.116244	287.1621104962304			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	218035473.184000	218035096.90693			
Observation start date	2004-11-28T13:23:29	2004-11-28T13:18:16			
Observation end time	218036373.184000	218036506.7945			
Observation end date	2004-11-28T13:38:29	2004-11-28T13:41:46			

## 2.3 Aspect



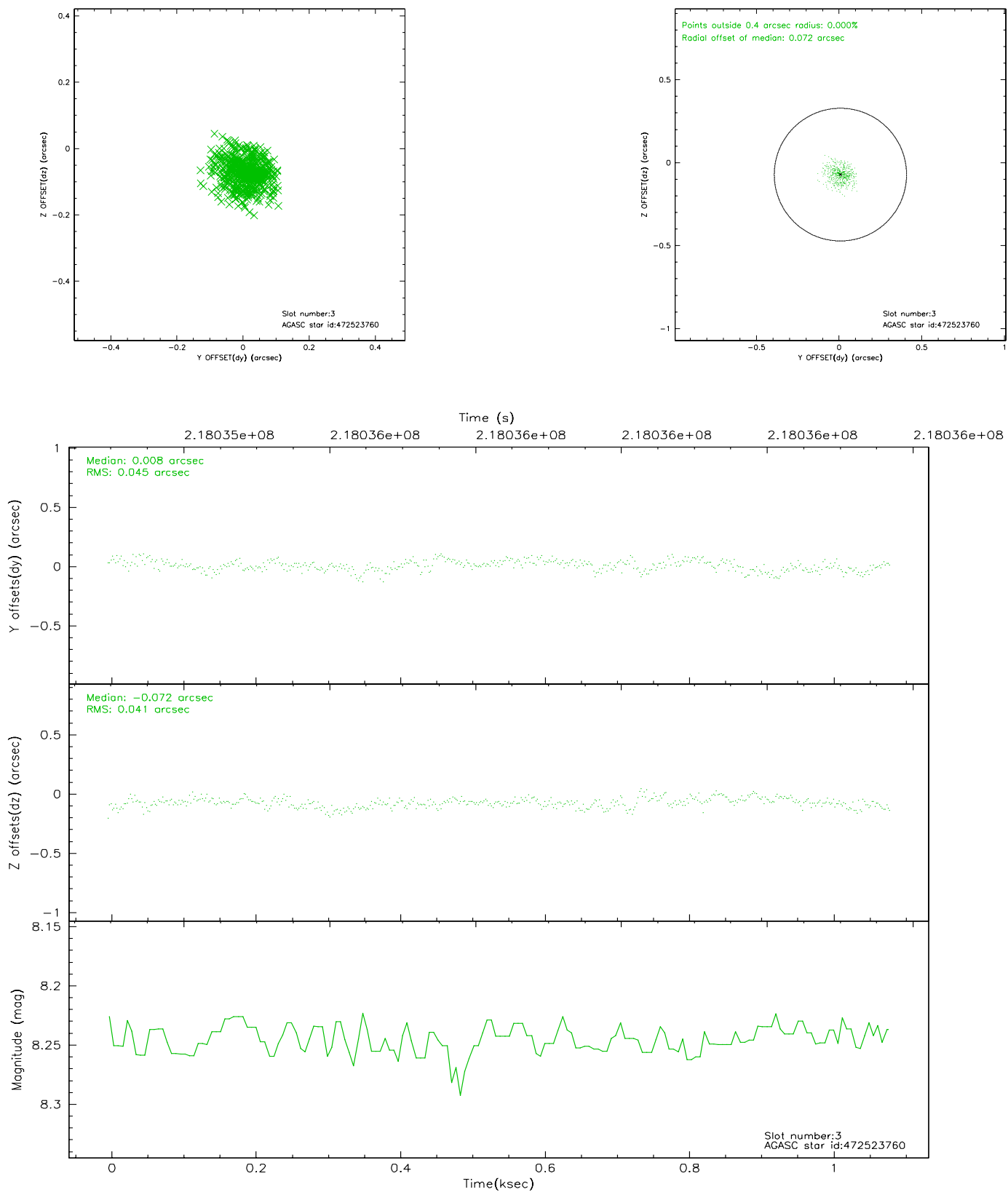


### Slot Statistics

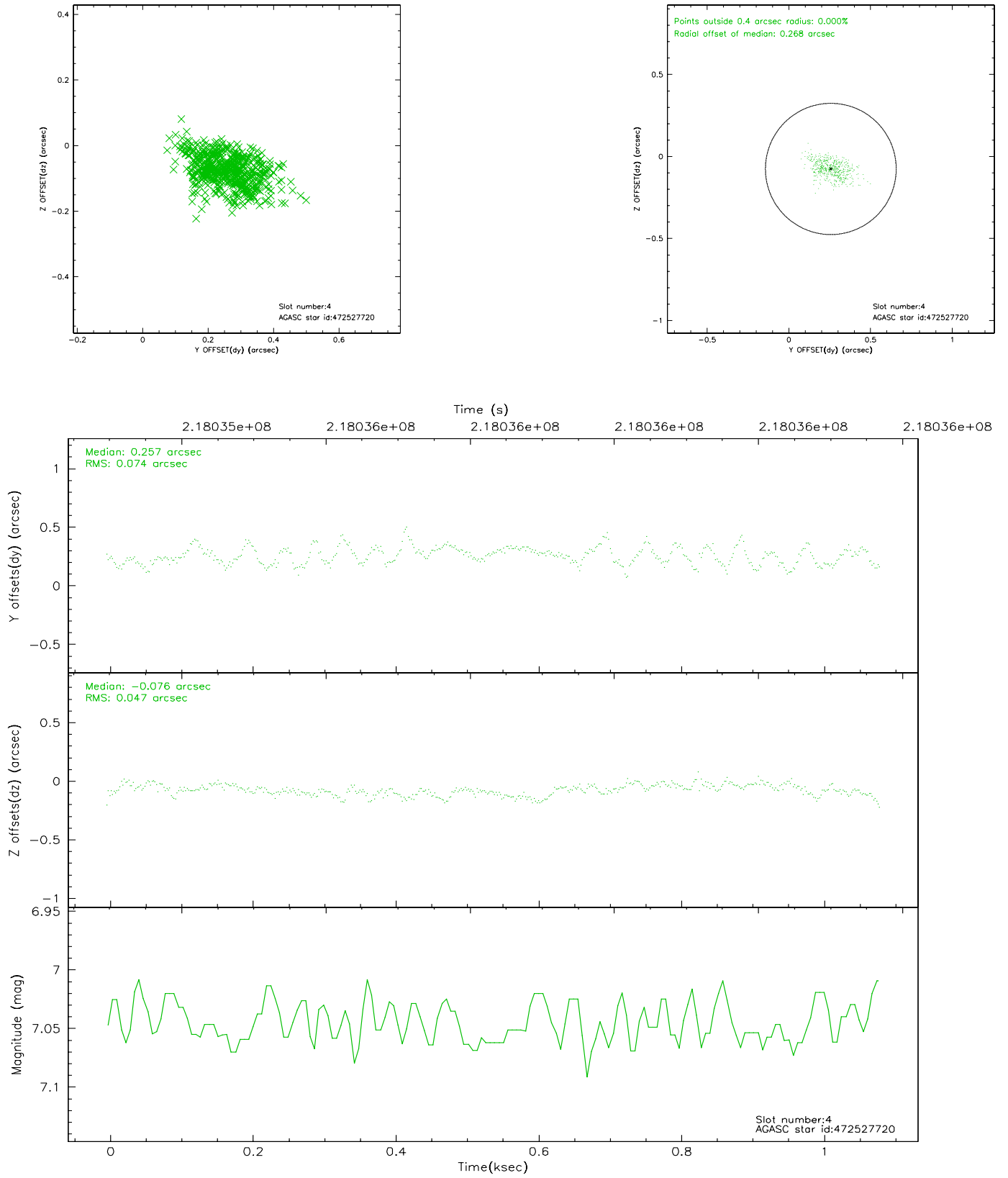
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	264	0.147	-0.162	0.007	0.010	0.000000	0.000000	-1161.97	-457.67
1	FID	HRC-S-2	7.03	264	0.155	-0.119	0.005	0.009	0.000000	0.000000	1233.32	-452.01
2	FID	HRC-S-3	7.04	264	0.088	-0.022	0.007	0.013	0.000000	0.000000	-1160.07	570.28
3	GUIDE	472523760	8.25	529	0.008	-0.072	0.065	0.104	331.645363	45.403260	1445.26	-1443.17
4	GUIDE	472527720	7.05	529	0.257	-0.076	0.093	0.156	331.460205	45.112509	2306.19	-2207.33
5	GUIDE	472535400	8.78	529	-0.271	-0.073	0.084	0.140	331.047001	46.353888	-2266.21	-1842.19
6	GUIDE	472655152	9.43	528	0.007	0.104	0.099	0.168	332.504239	45.862991	493.60	1106.28
7	GUIDE	472659832	9.46	528	-0.002	0.117	0.108	0.169	332.780399	46.098139	-114.07	2016.42

## 2.4 Star Slots

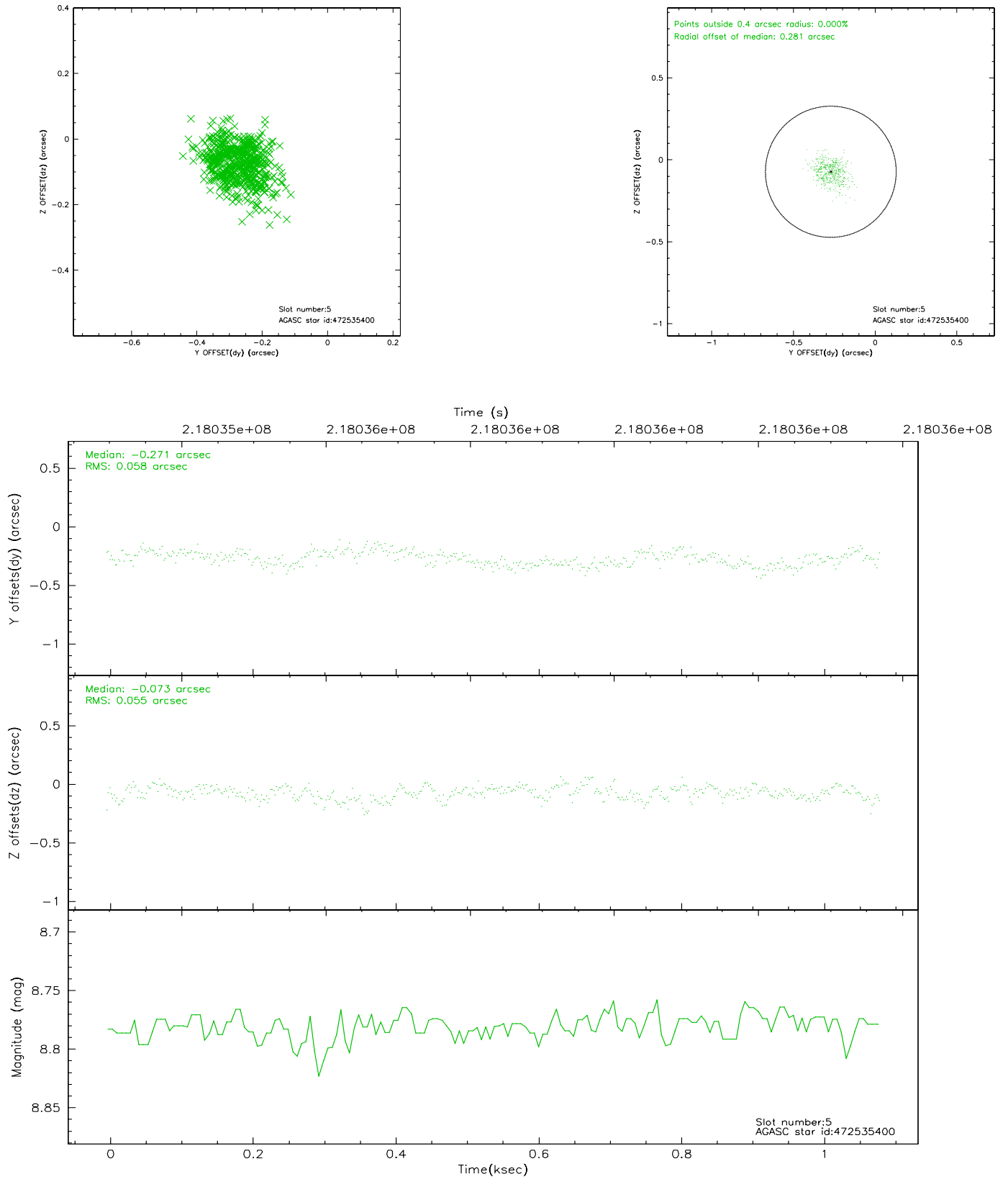
### 2.4.1 Slot 3



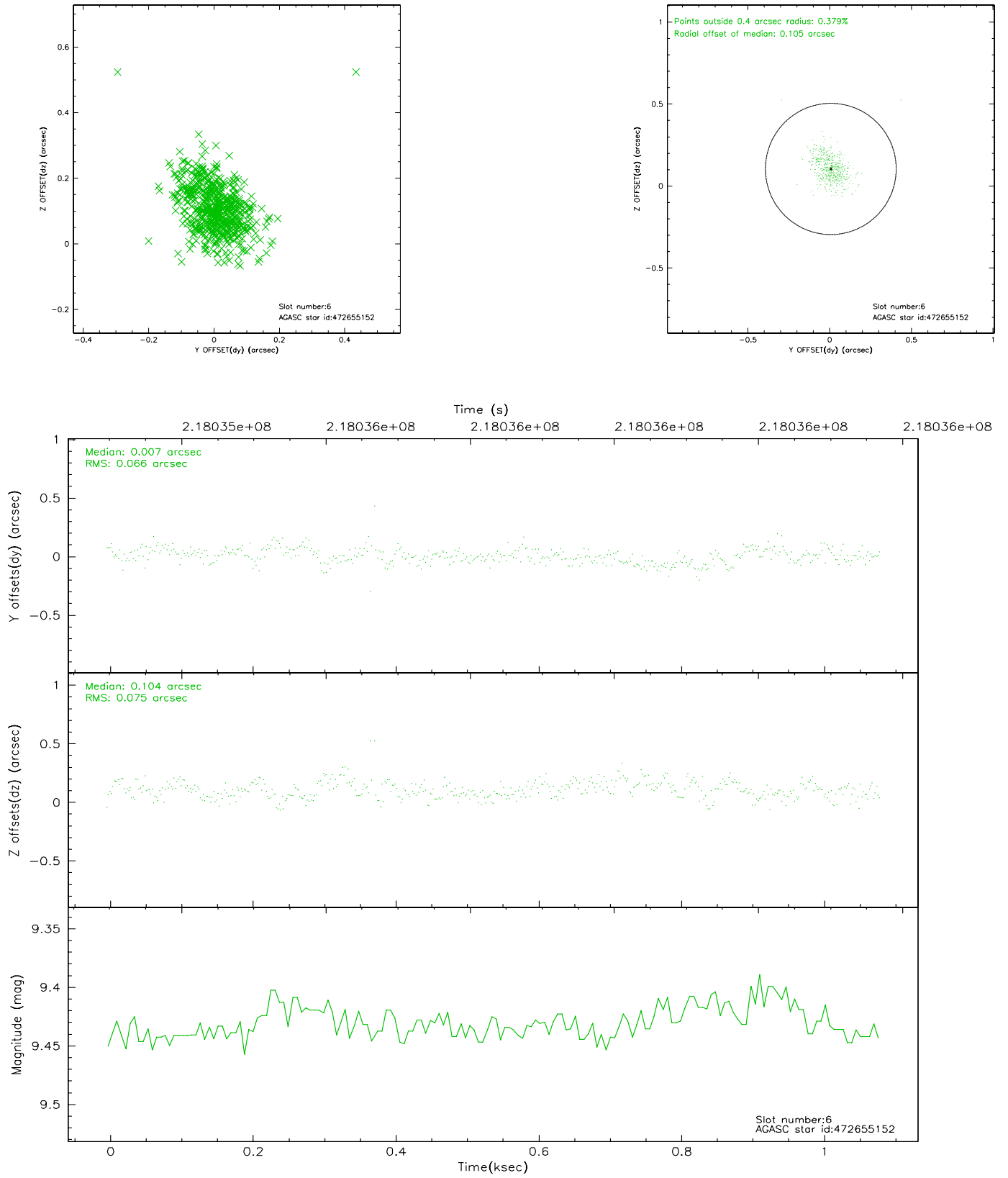
## 2.4.2 Slot 4



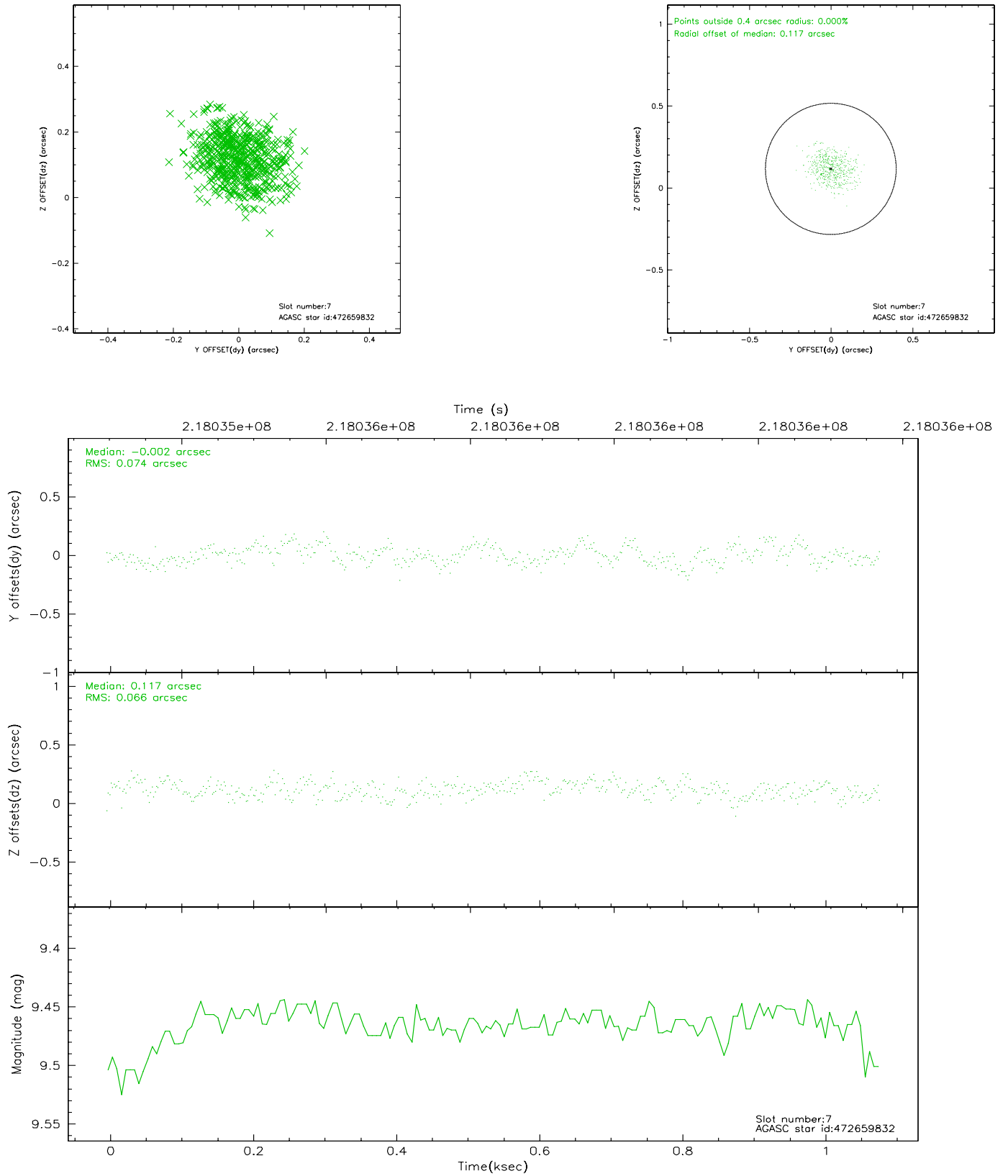
### 2.4.3 Slot 5



## 2.4.4 Slot 6

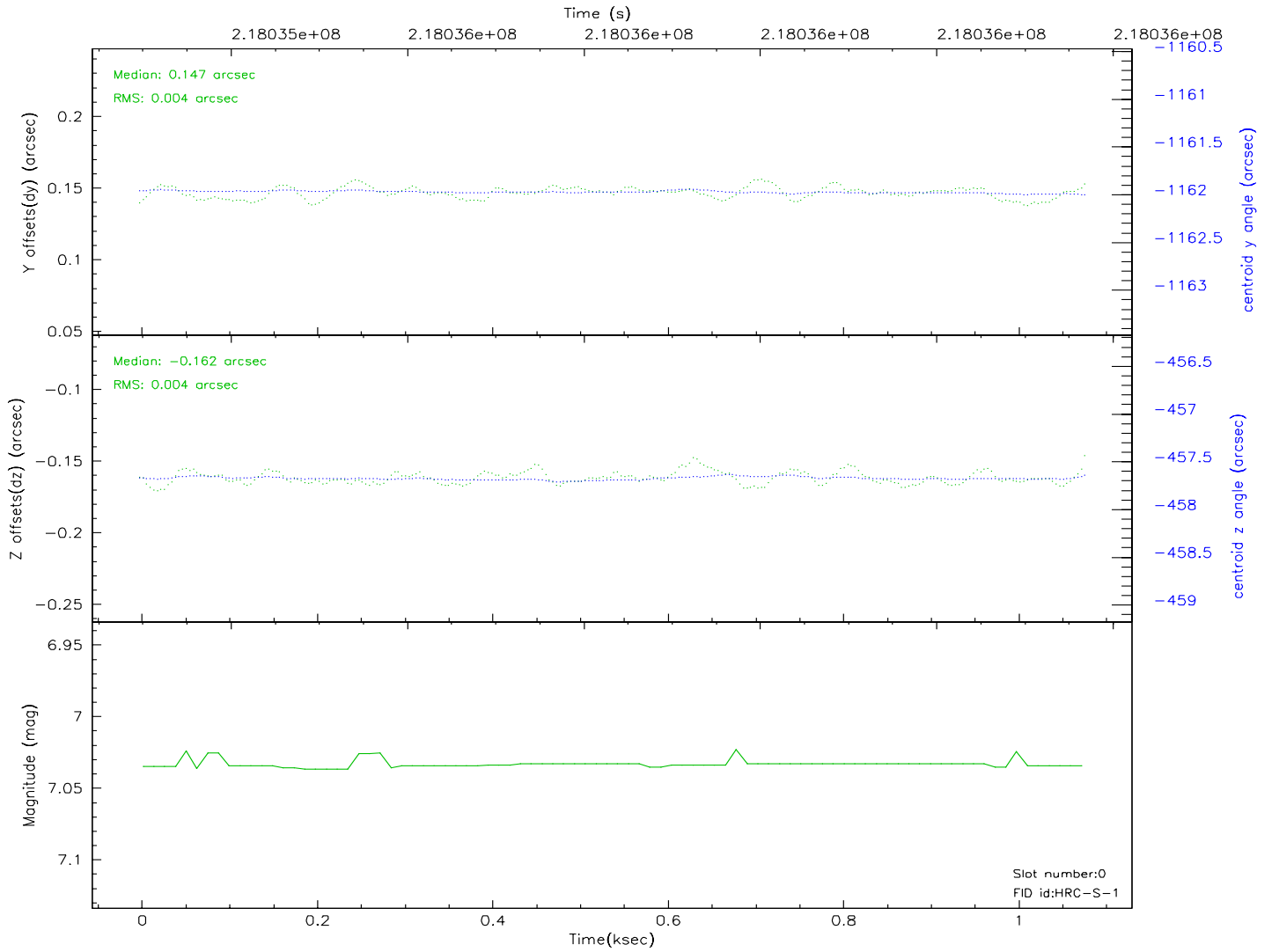
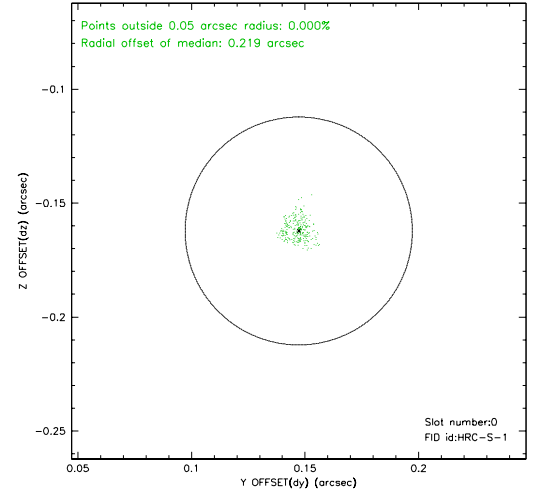
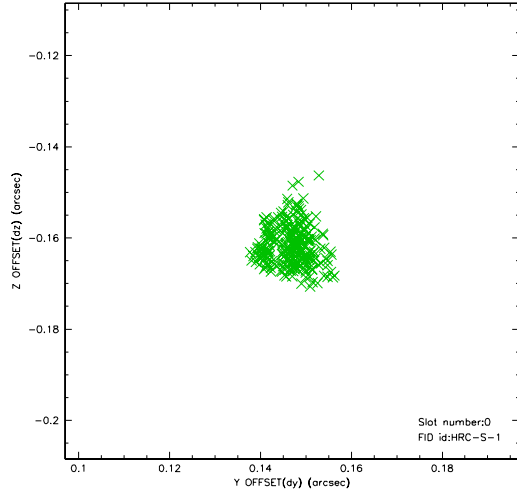


## 2.4.5 Slot 7

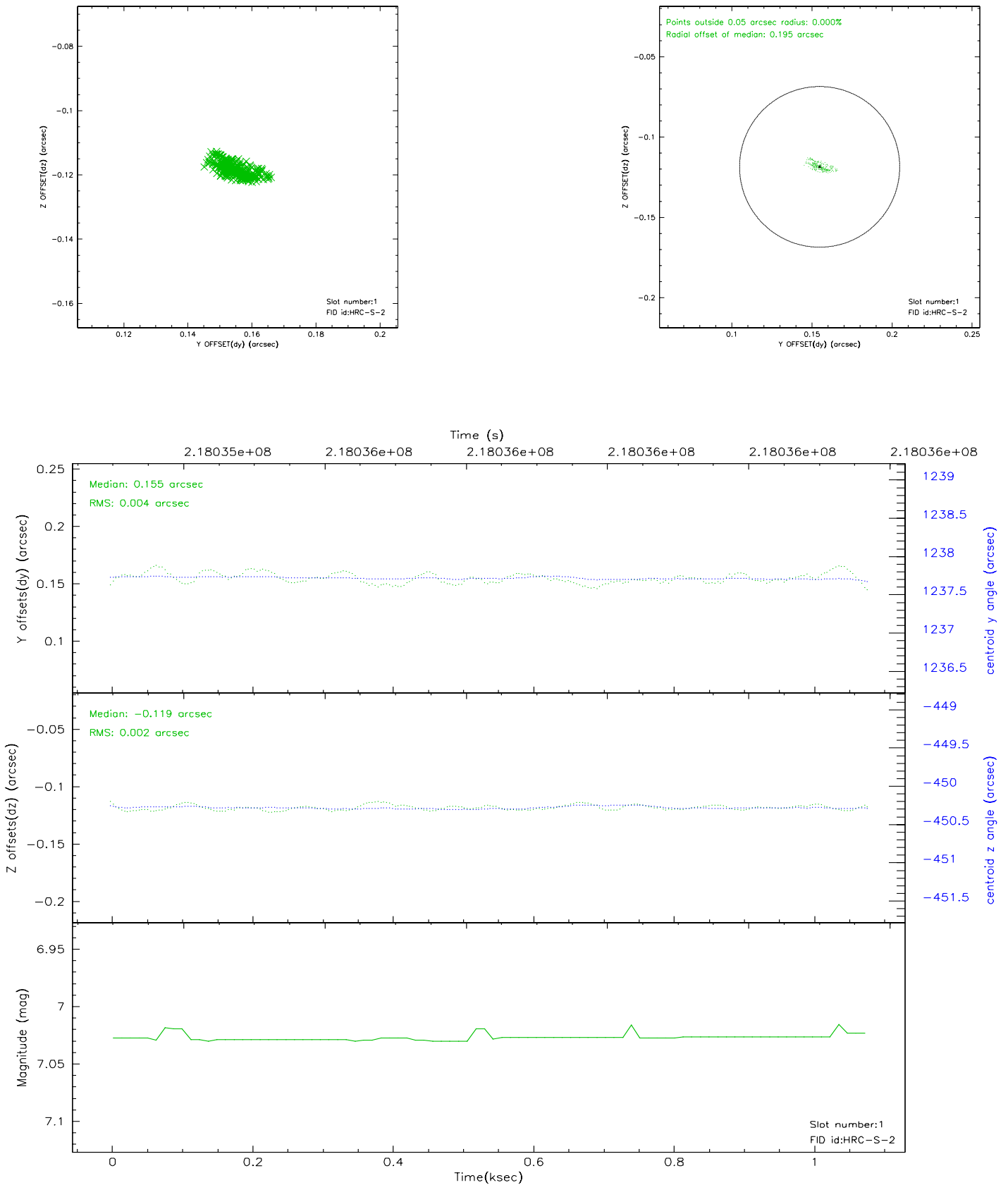


## 2.5 FID Slots

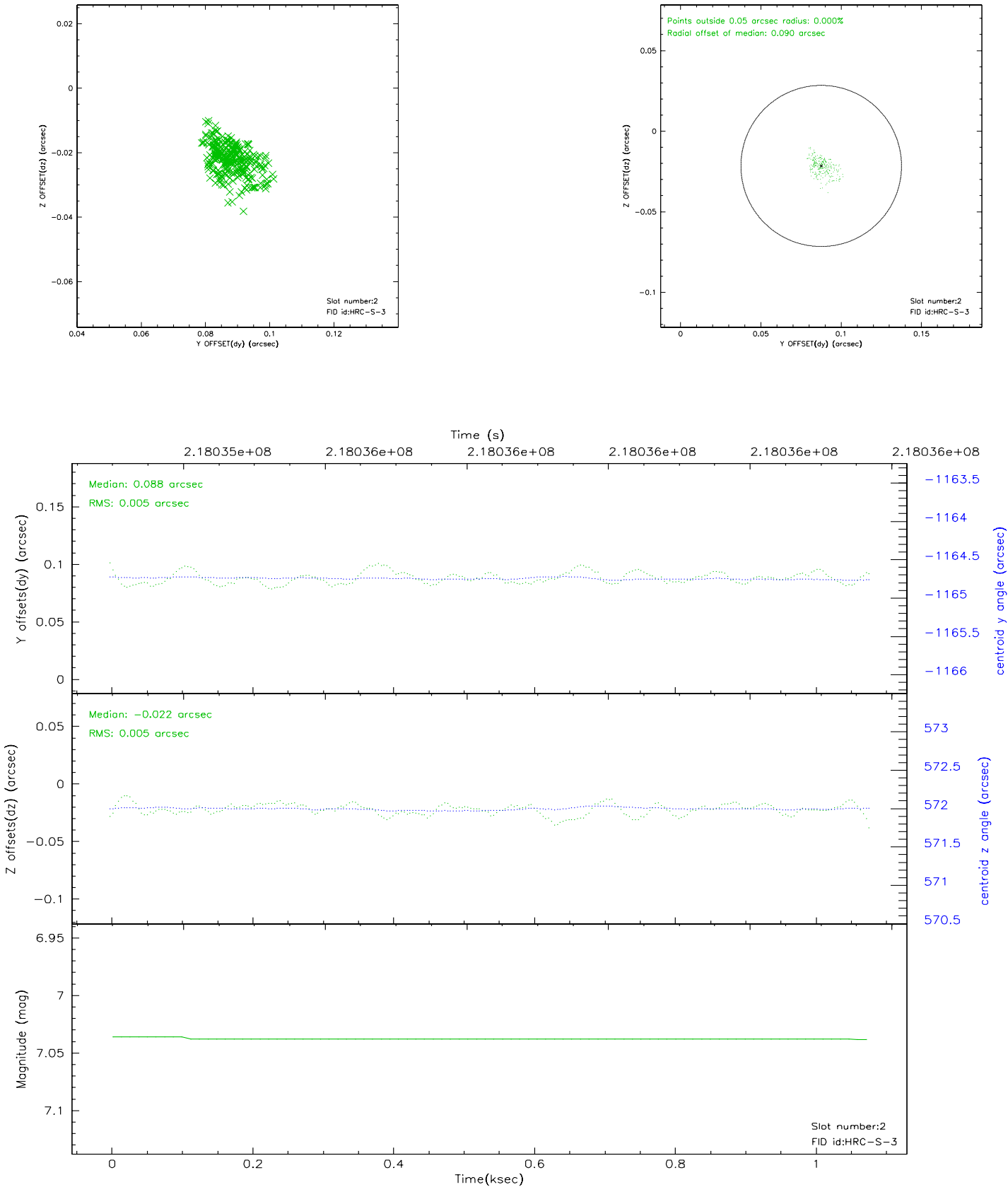
### 2.5.1 Slot 0



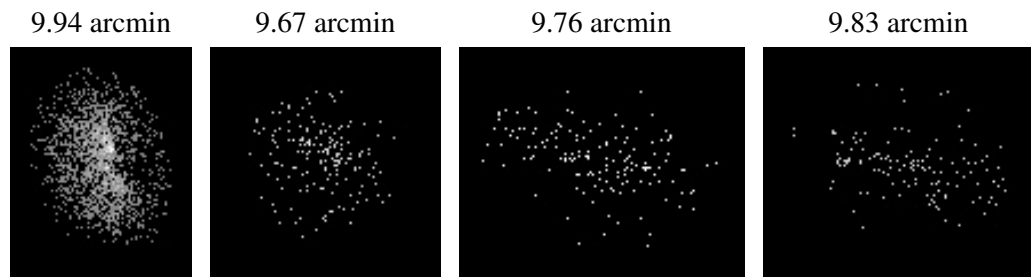
## 2.5.2 Slot 1



2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.052675

## A.2 Comments

The keywords DTCOR, EXPOSURE, and LIVETIME in the Level 2 event file and the

keyword DTCOR in the Level 1 event file have been incorrectly determined due to a software bug. The correct value of DTCOR can be found in the file DTFSTATS file that can be obtained by downloading the secondary data products. In most cases, the difference between the correct DTCOR value and the incorrect DTCOR value in the Level 2 event file is very small and does not affect the data analysis. However, there are cases of significant differences and the user is advised to use the DTCOR in the DTFSTATS file for analysis. Corrected data products will be made available in the archive as soon as feasible.