

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5108 - L2 Version 002  
Chandra X-Ray Center

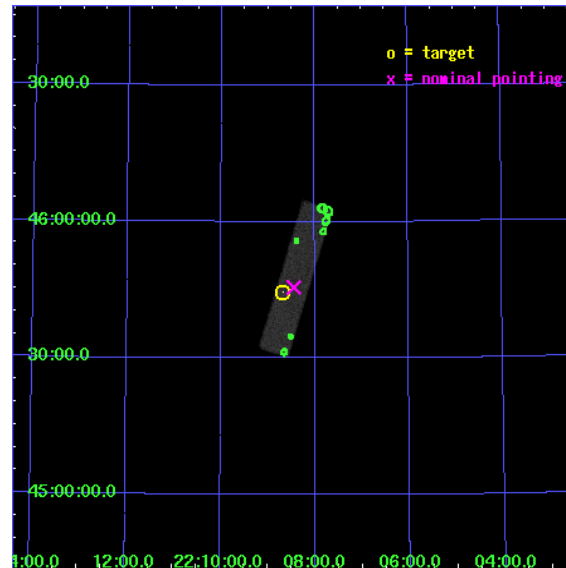
L2 Processing Date : Apr 10 2006

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# 1 Front

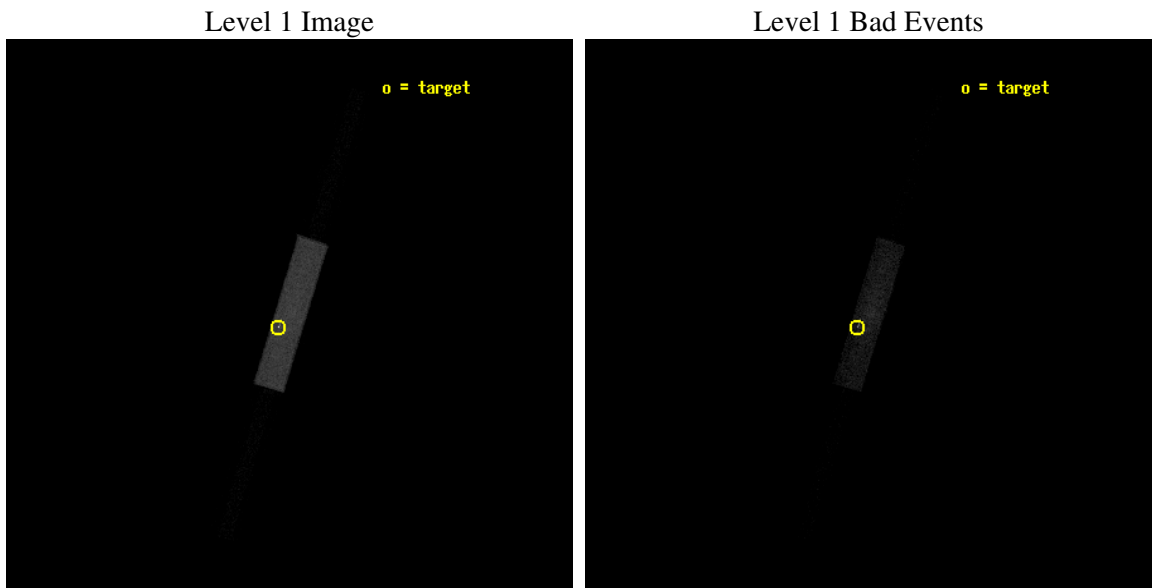
seq_num	290381
obs_id	5108
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.11127588837
dec_nom	45.759815508621
roll_nom	286.96803307995
revision	2
ontime	1061.1312977374
livetime	1053.8984027857
l2events	47741



## 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	2006-04-10T19:32:56
revision	2

sched_exp_time	900.000000
ontime	1090.8562990427
l1events	82725

### 2.1.3 Events

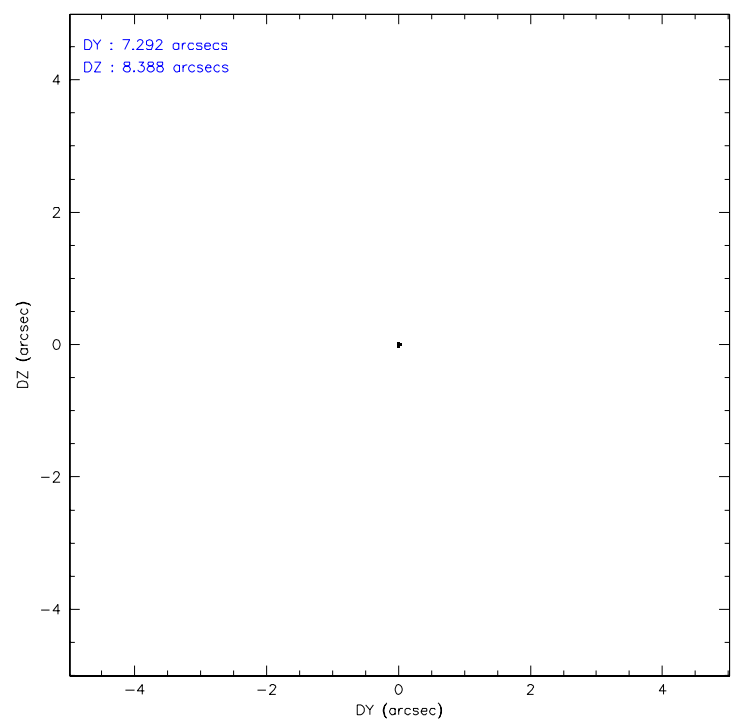
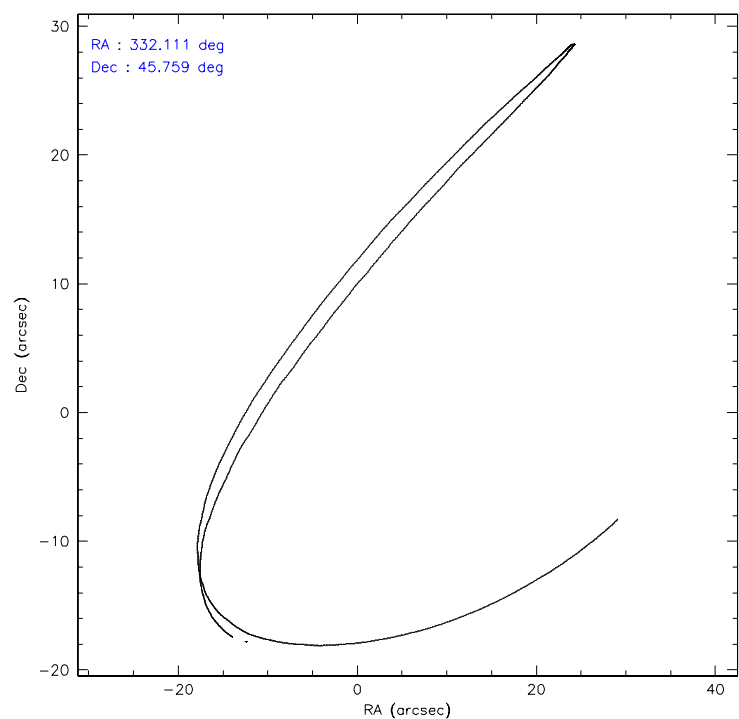
Level 1 Events

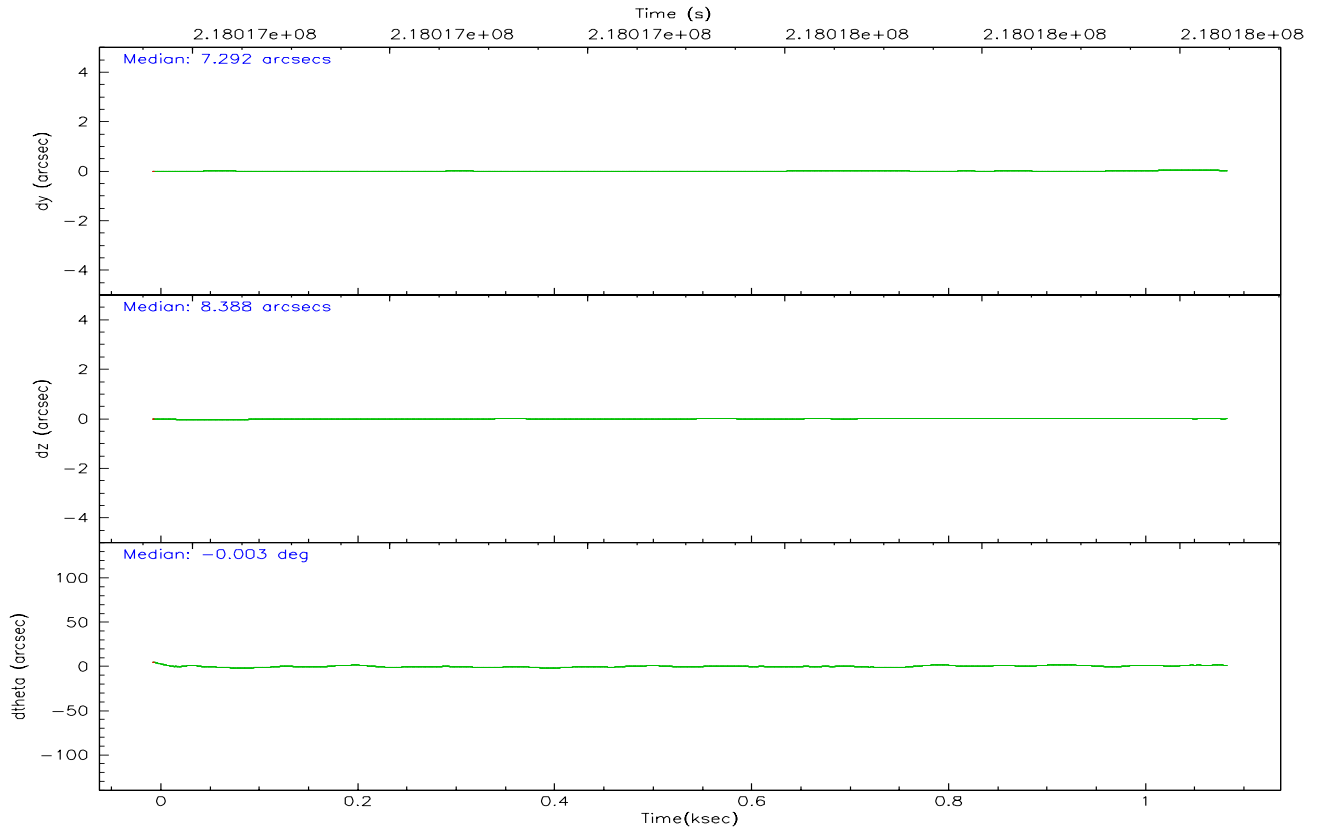
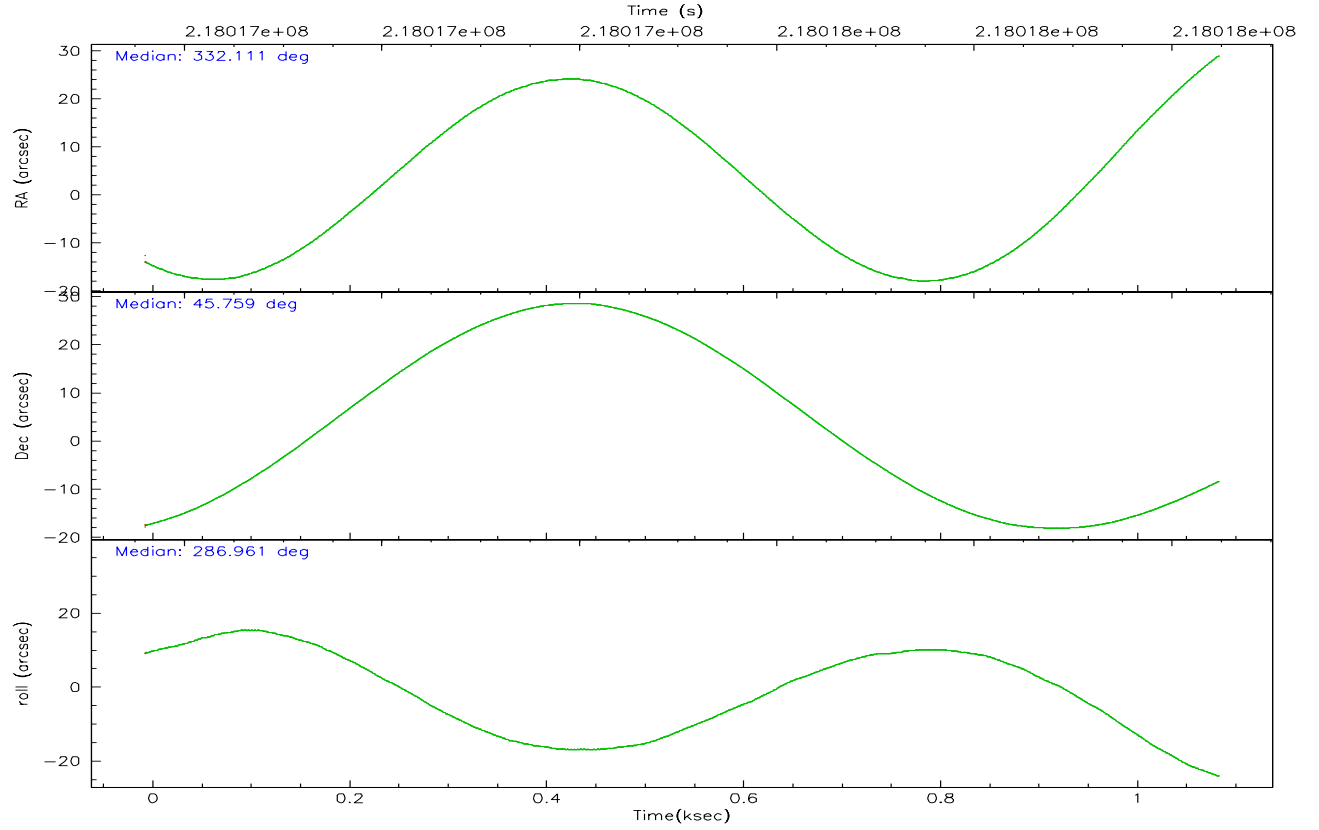
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	714	81293	718
rejected events	714	30153	696
rejected %	100%	37%	96%

## 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	332.080858	332.1112758883658			
Pointing Dec	45.778468	45.75981550862057			
Pointing Roll	286.922492	286.9680330799482			
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	218017143.184000	218016767.34361			
Observation start date	2004-11-28T08:17:59	2004-11-28T08:12:47			
Observation end time	218018043.184000	218018176.71867			
Observation end date	2004-11-28T08:32:59	2004-11-28T08:36:16			

## 2.3 Aspect





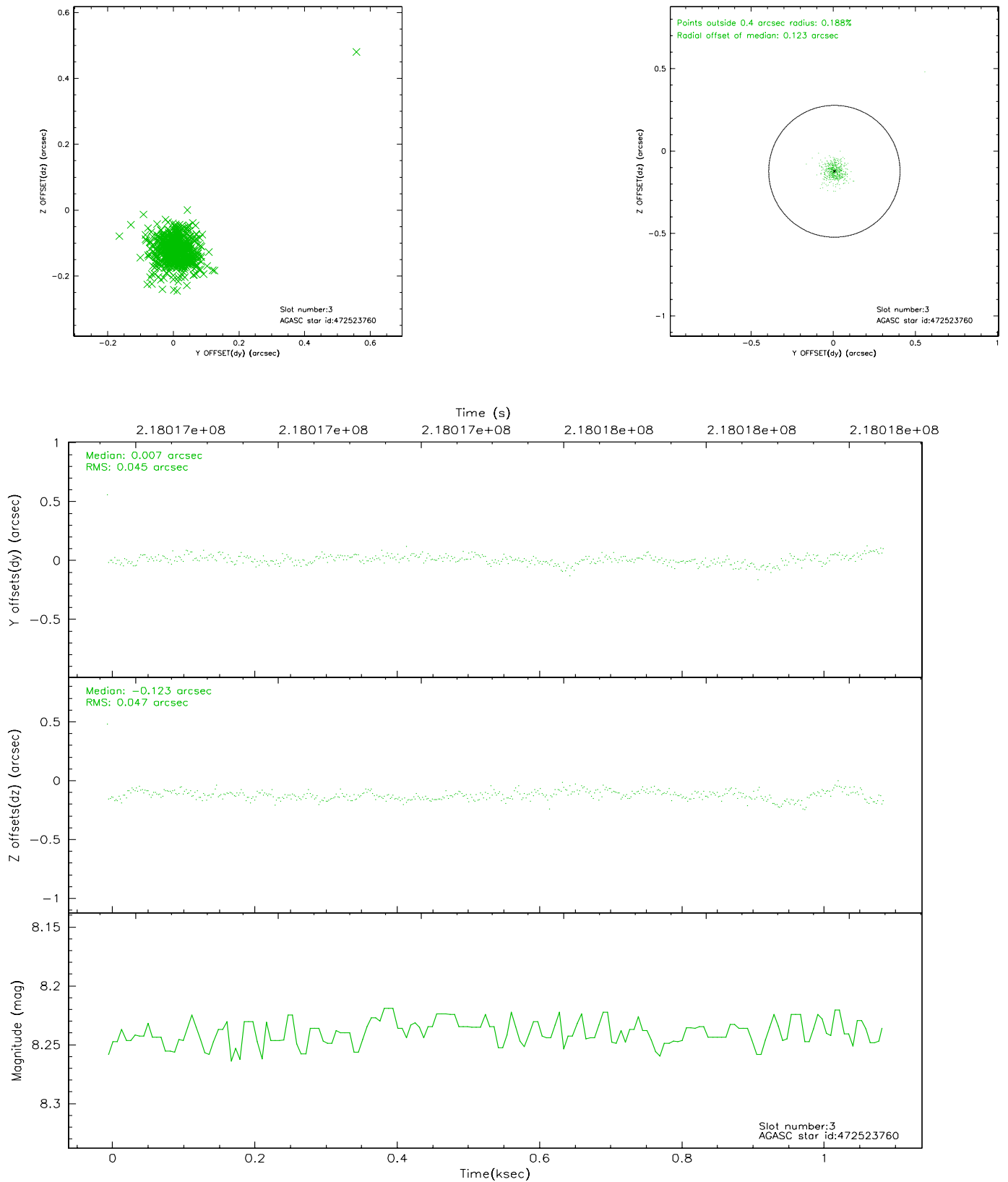
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-2	7.04	267	0.142	-0.113	0.010	0.017	0.000000	0.000000	1238.23	-449.64
1	FID	HRC-S-3	7.05	267	0.051	-0.095	0.005	0.010	0.000000	0.000000	-1159.61	570.90
2	FID	HRC-S-4	7.02	267	0.213	-0.086	0.011	0.019	0.000000	0.000000	1232.55	577.25
3	GUIDE	472523760	8.24	533	0.007	-0.123	0.055	0.097	331.645363	45.403260	969.49	-1442.75
4	GUIDE	472525528	6.64	533	0.053	0.072	0.091	0.144	331.551102	45.248694	1431.97	-1838.16
5	GUIDE	472527720	7.02	533	0.148	-0.036	0.103	0.154	331.460205	45.112509	1832.29	-2205.22
6	GUIDE	472535576	7.84	533	-0.215	0.069	0.065	0.105	331.438373	46.291802	-2235.74	-990.93
7	GUIDE	472659832	9.47	529	-0.000	0.015	0.109	0.248	332.780399	46.098139	-604.20	2008.58

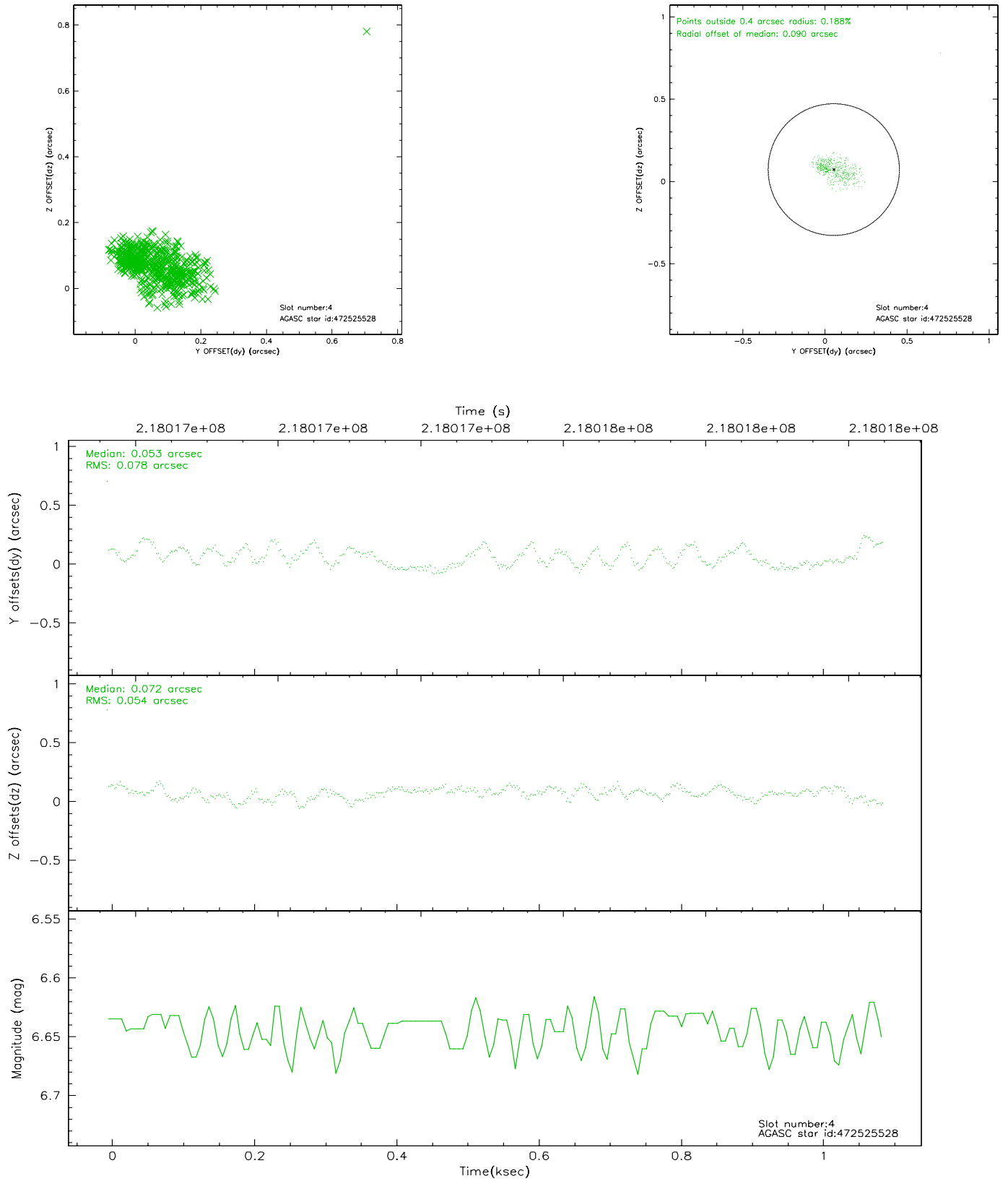


## 2.4 Star Slots

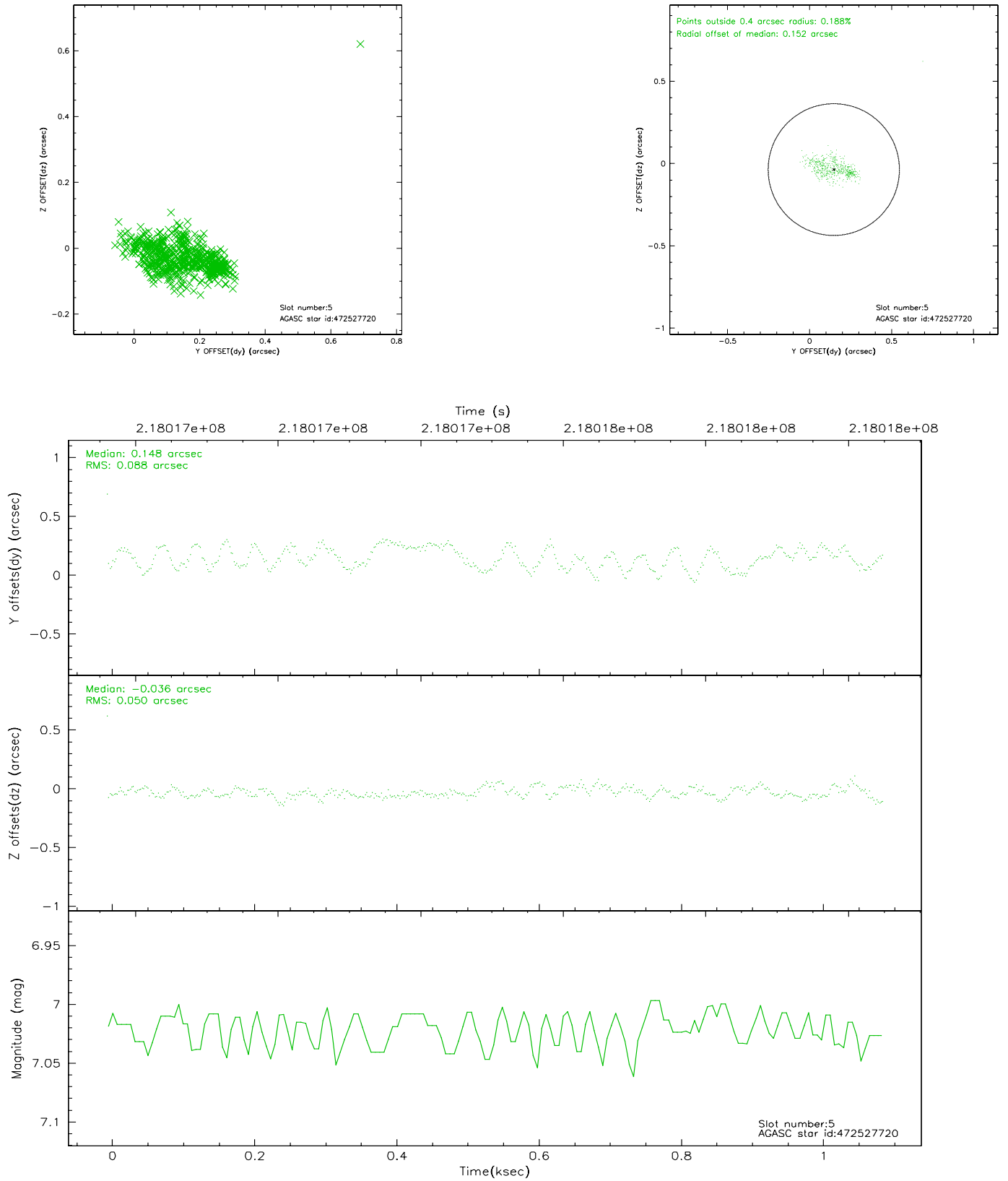
### 2.4.1 Slot 3



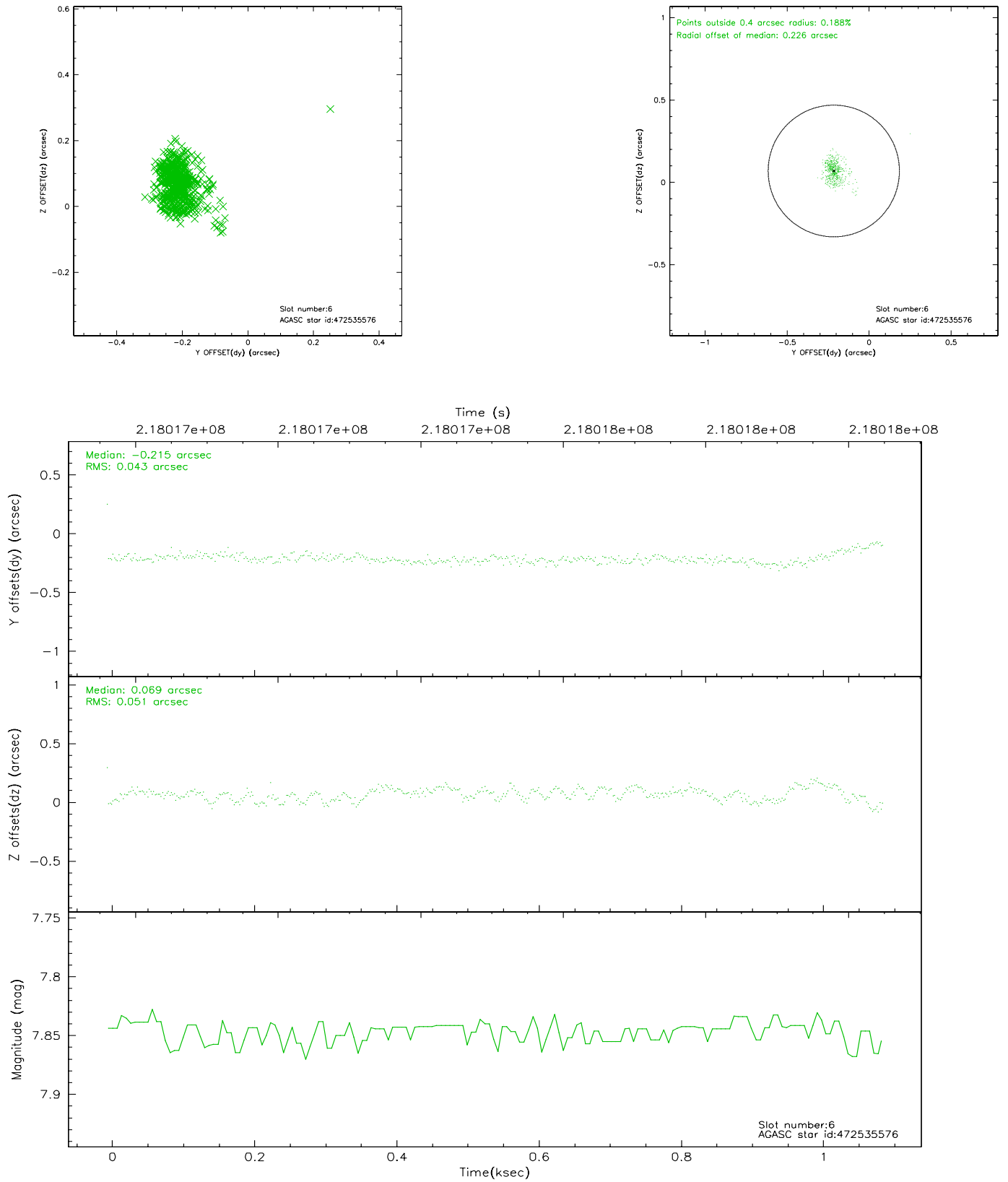
## 2.4.2 Slot 4



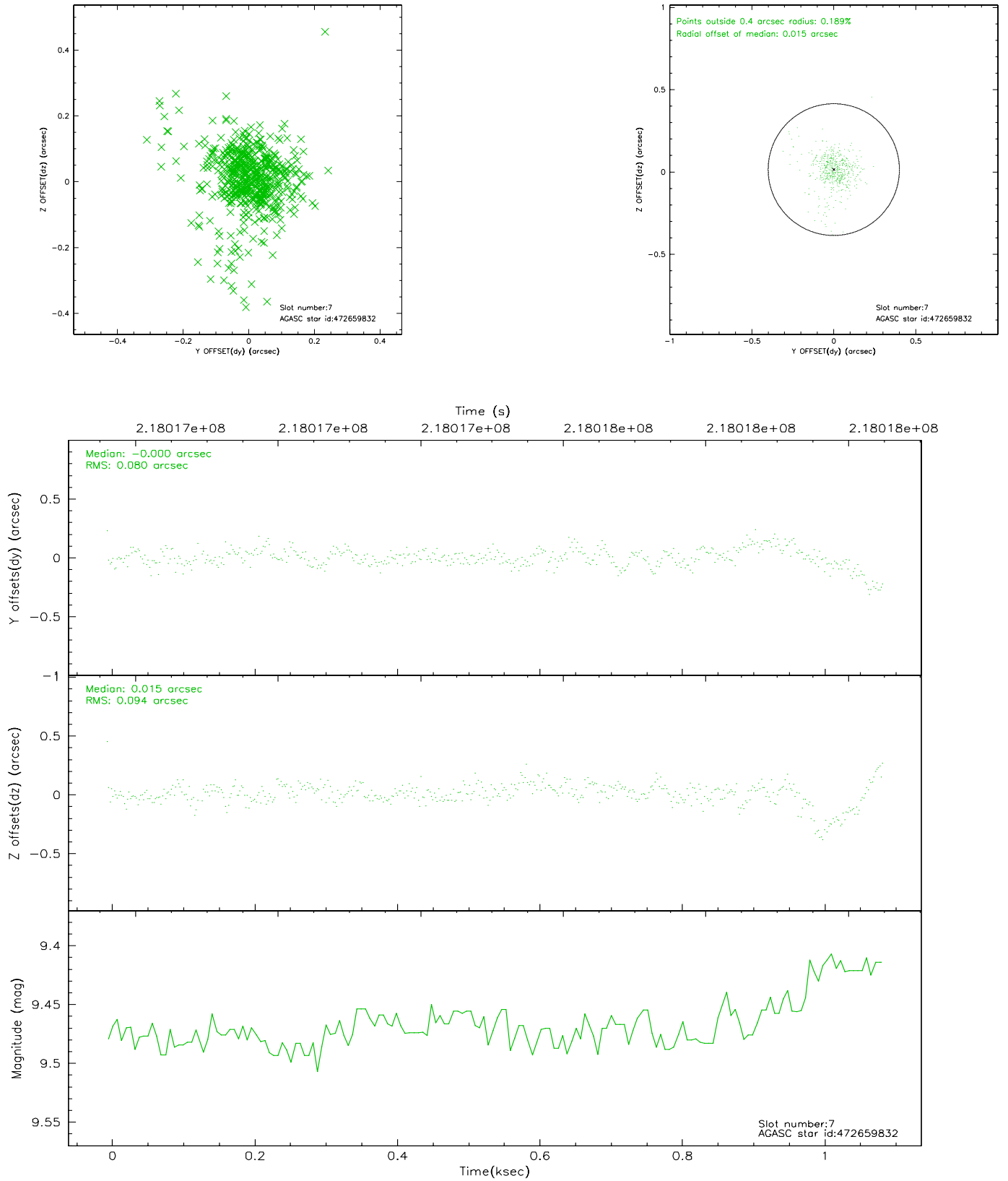
### 2.4.3 Slot 5



## 2.4.4 Slot 6

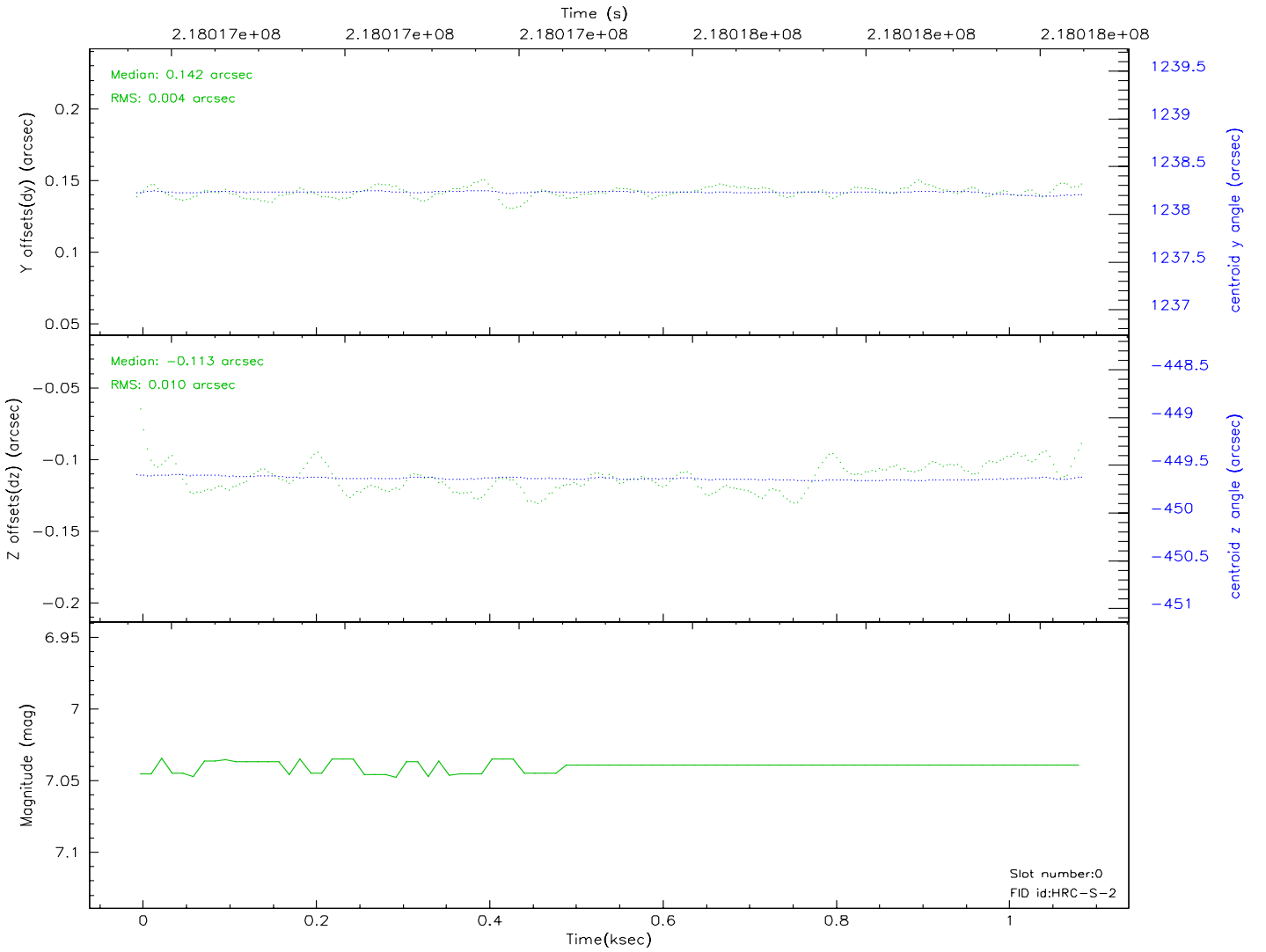
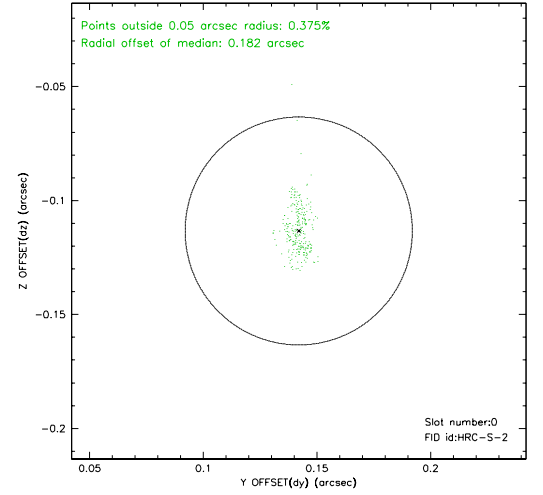
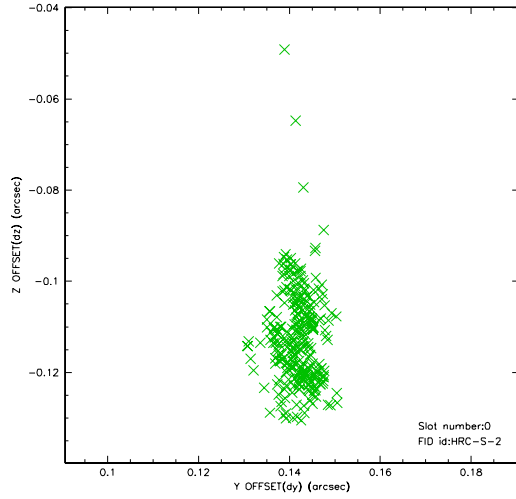


## 2.4.5 Slot 7

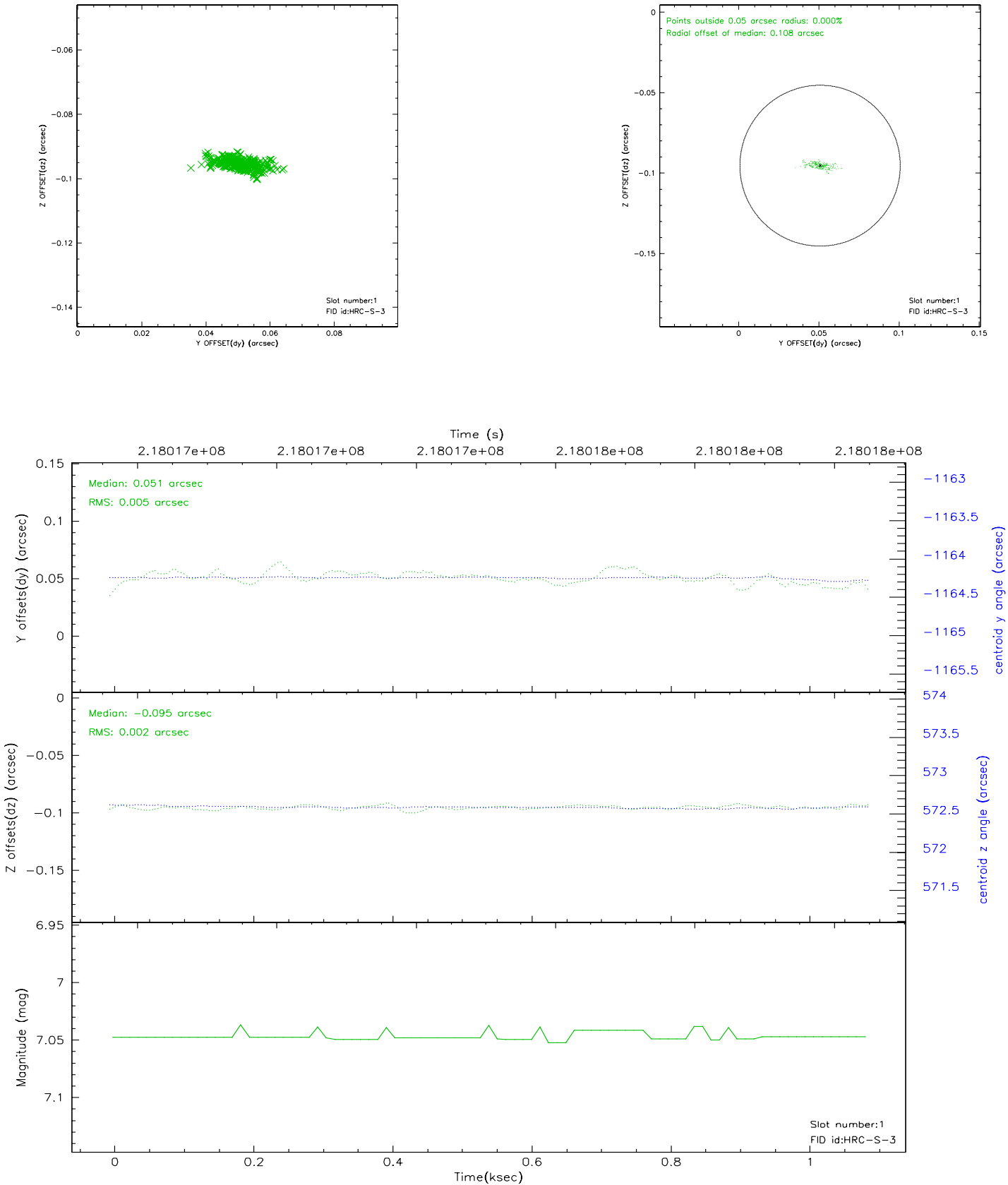


## 2.5 FID Slots

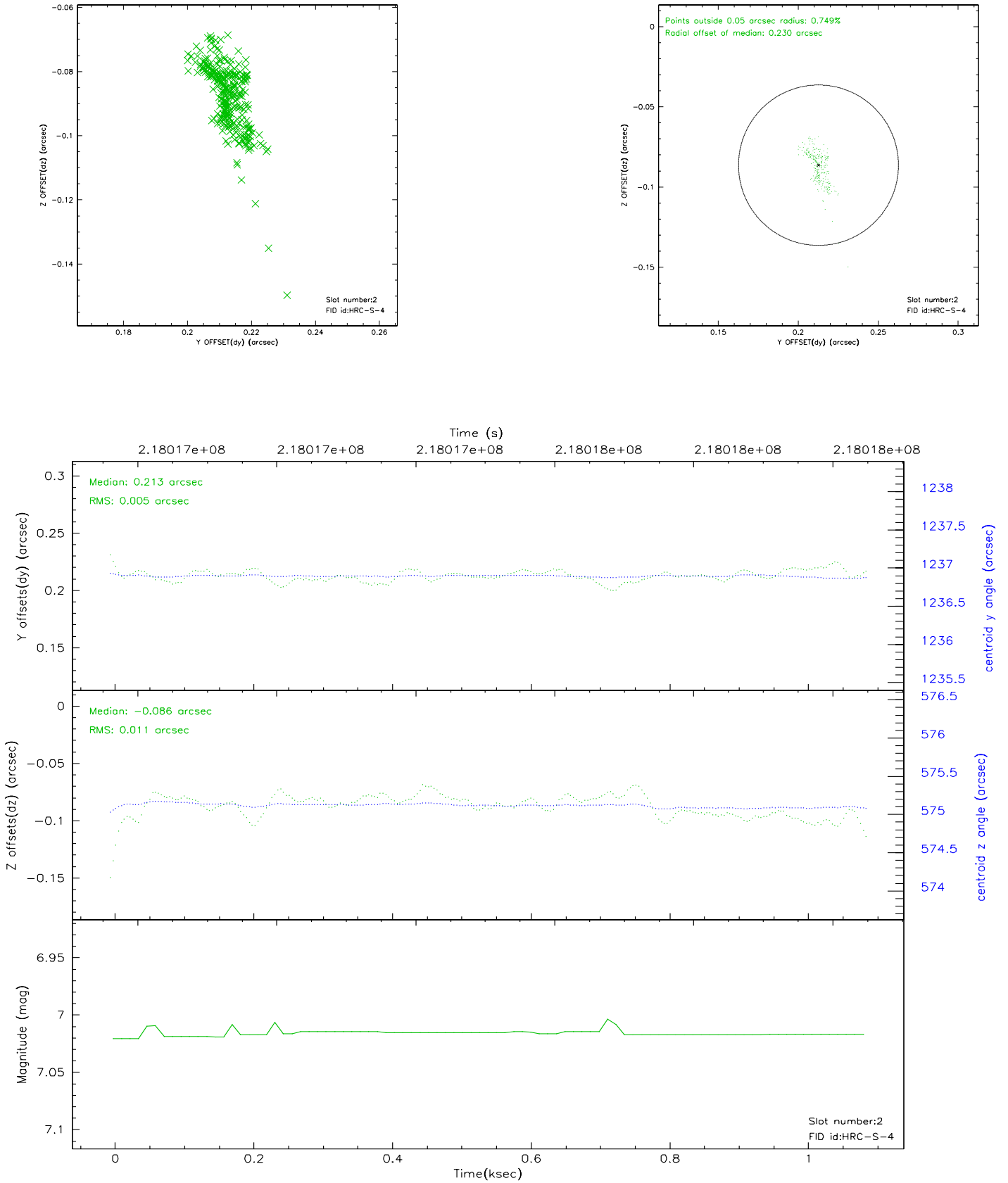
### 2.5.1 Slot 0



2.5.2 Slot 1

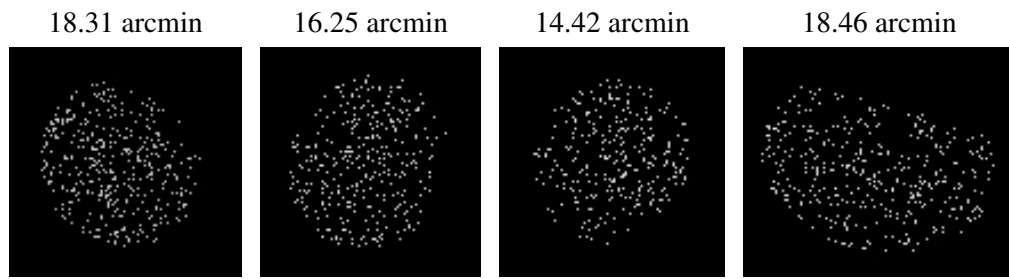


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.06113129

## 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.