

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5109 - L2 Version 002  
Chandra X-Ray Center

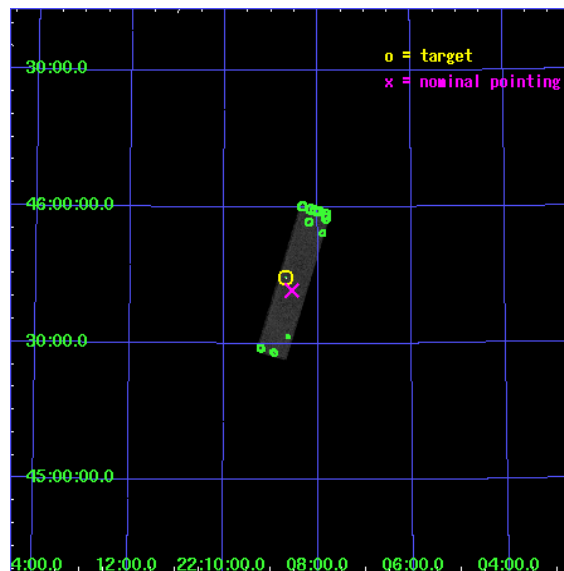
L2 Processing Date : Apr 10 2006

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# 1 Front

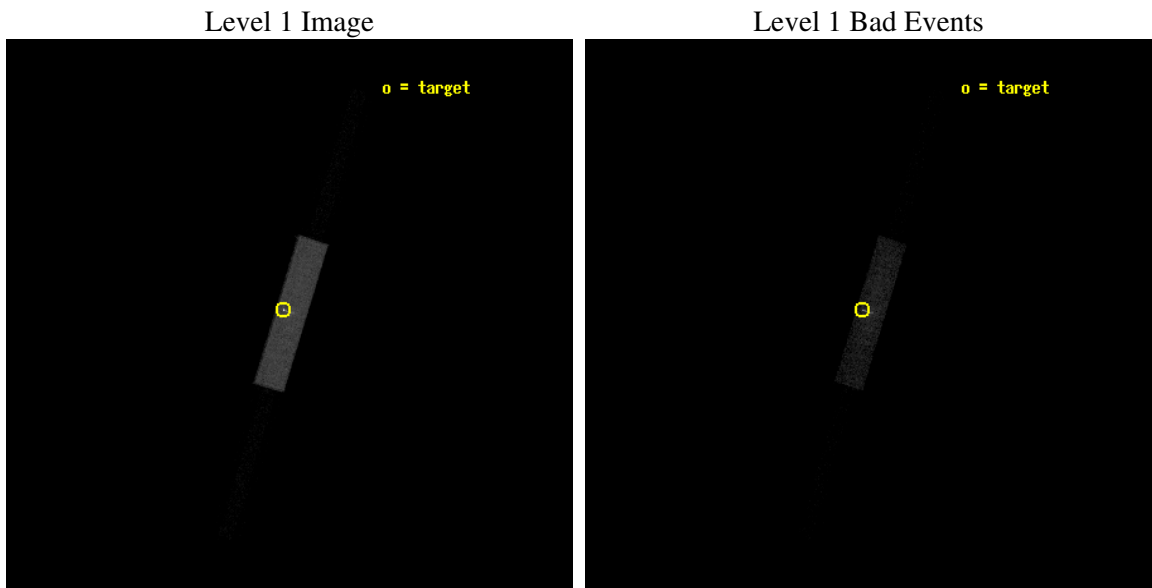
seq_num	290382
obs_id	5109
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.13839744374
dec_nom	45.695882180205
roll_nom	286.97913024914
revision	2
ontime	1050.6250471771
livetime	1043.2818638677
l2events	49563



## 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	2006-04-10T19:33:25
revision	2

sched_exp_time	900.000000
ontime	1081.3750485778
l1events	85382

### 2.1.3 Events

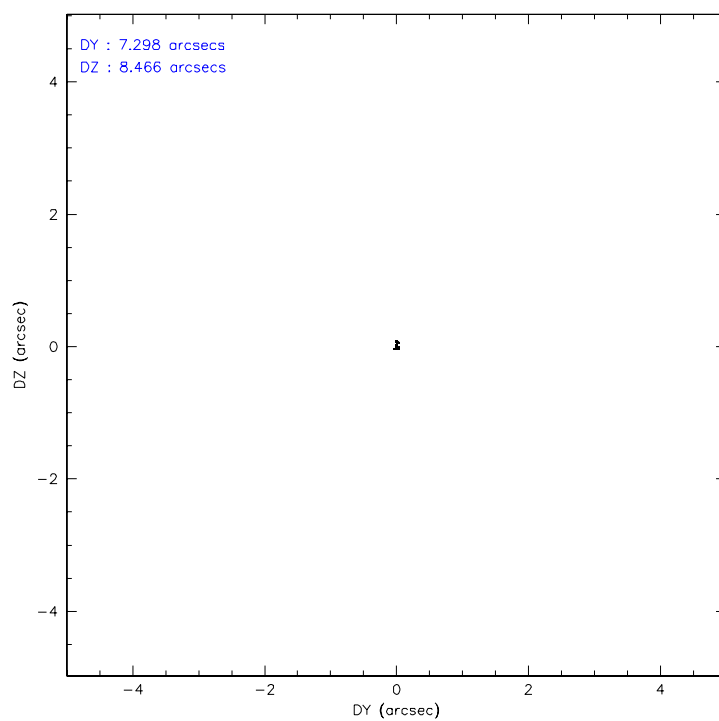
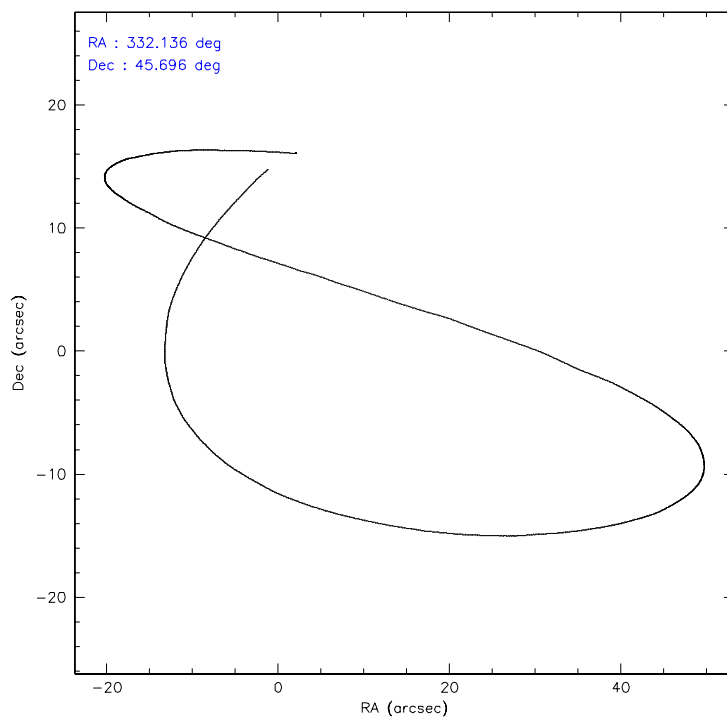
Level 1 Events

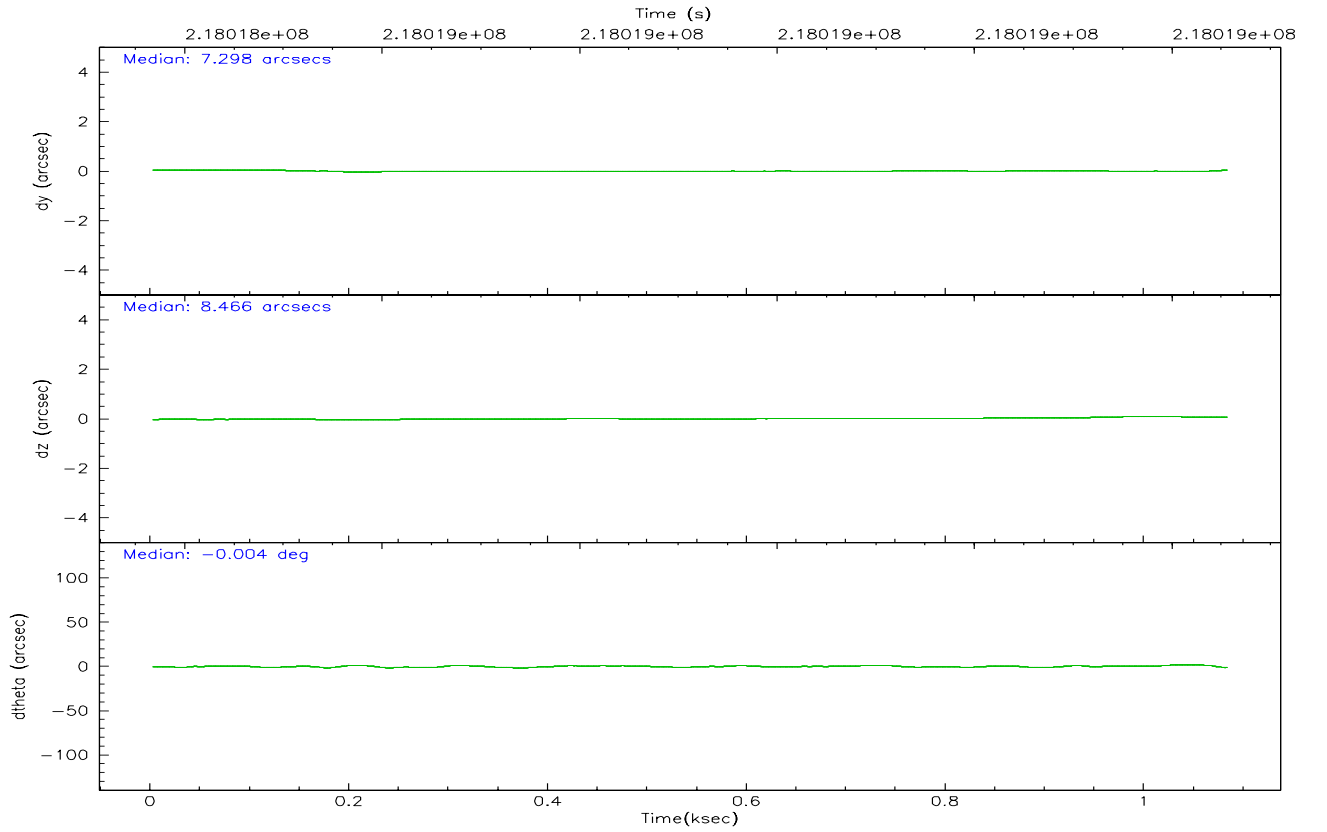
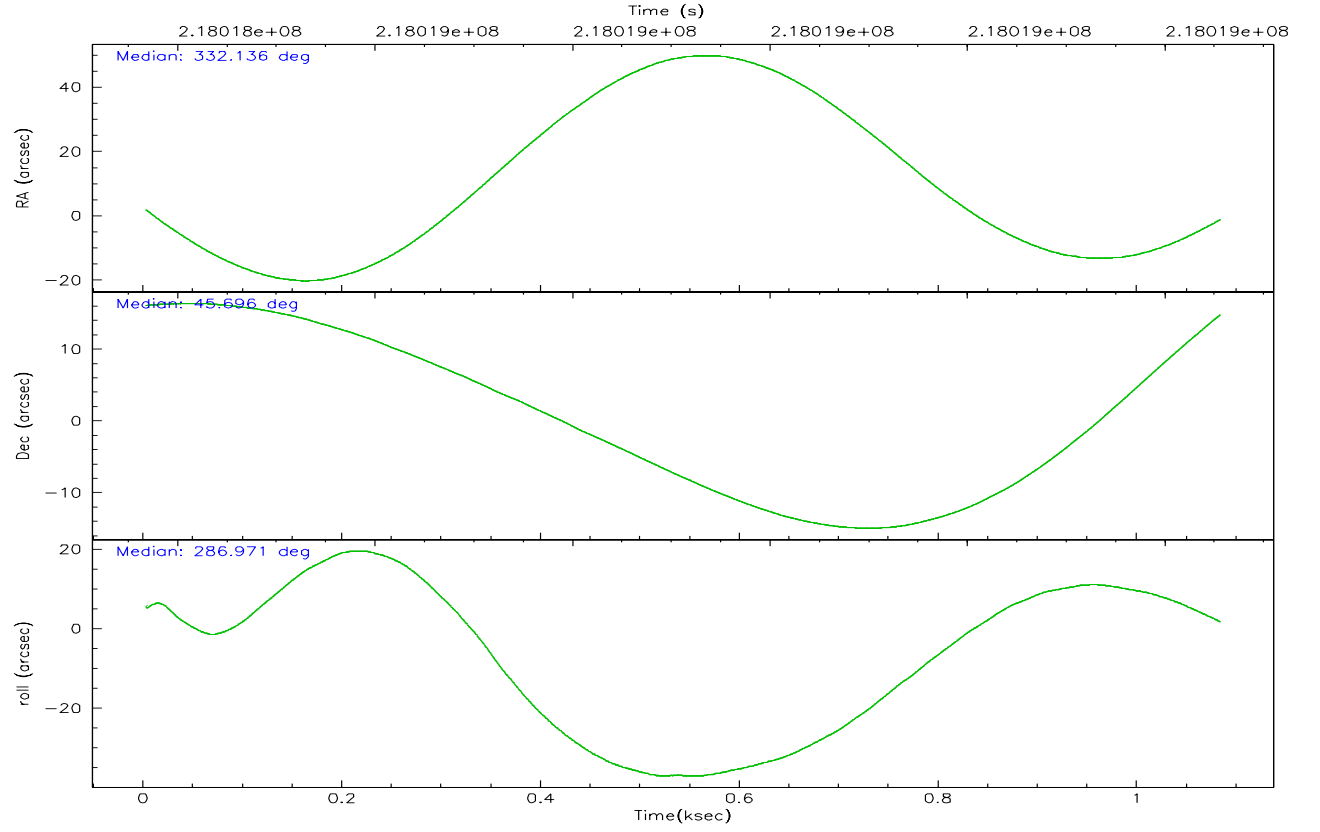
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	742	83891	749
rejected events	742	31048	749
rejected %	100%	37%	100%

## 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	332.108674	332.138397443738			
Pointing Dec	45.714654	45.69588218020512			
Pointing Roll	286.933049	286.9791302491394			
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	218018553.184000	218018176.71867			
Observation start date	2004-11-28T08:41:29	2004-11-28T08:36:16			
Observation end time	218019453.184000	218019587.11874			
Observation end date	2004-11-28T08:56:29	2004-11-28T08:59:47			

## 2.3 Aspect





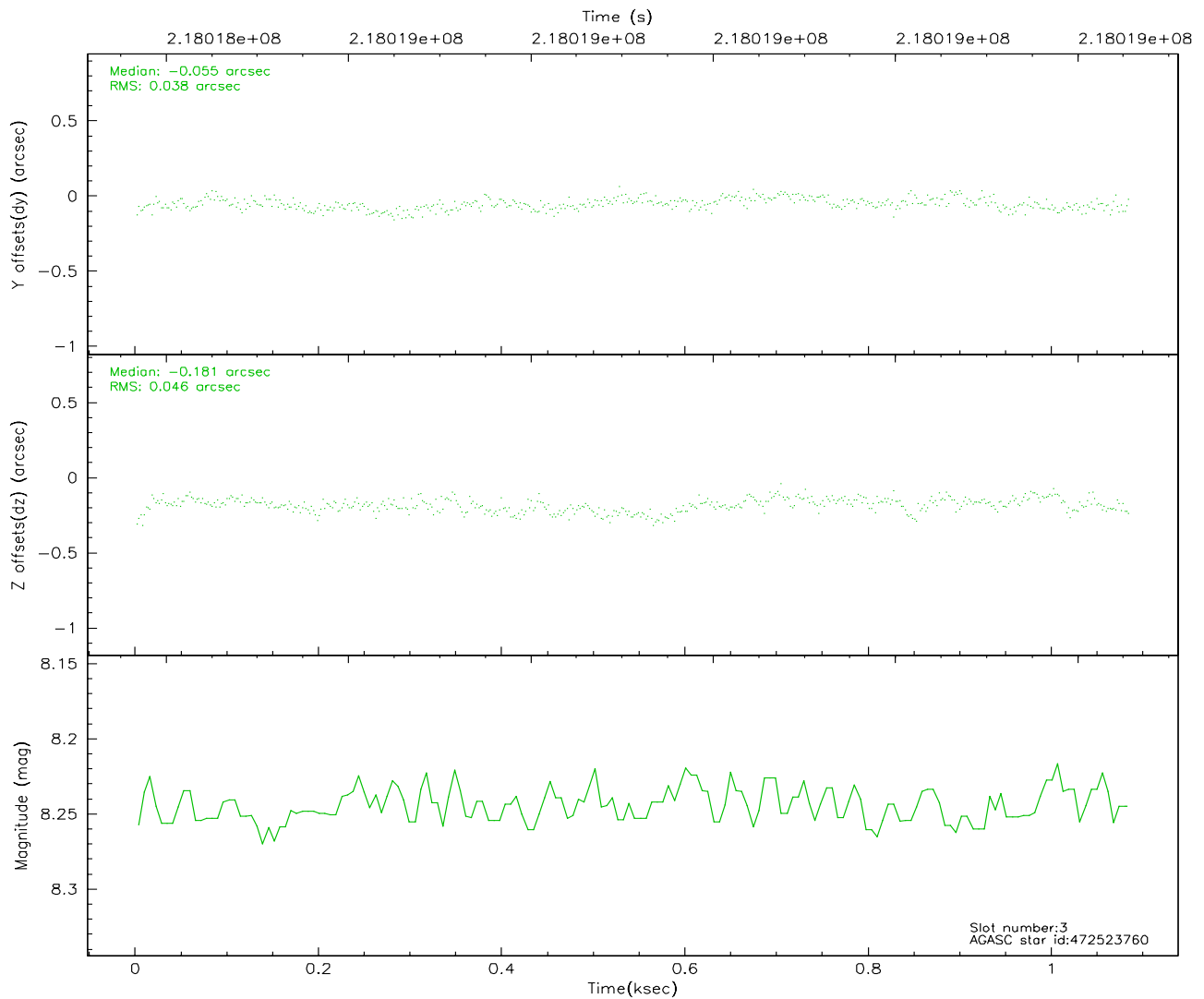
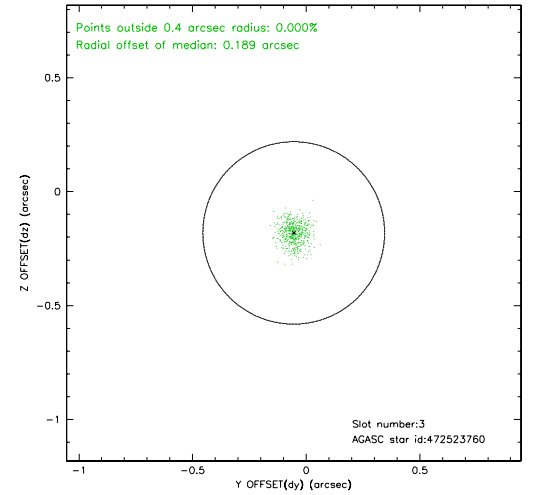
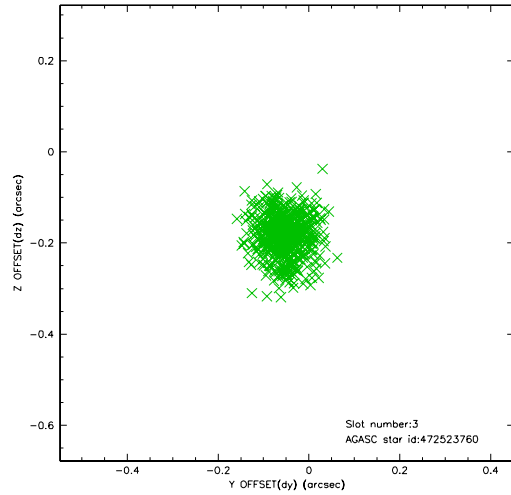
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	264	0.128	-0.144	0.007	0.015	0.000000	0.000000	-1161.46	-457.10
1	FID	HRC-S-2	7.04	264	0.164	-0.114	0.005	0.011	0.000000	0.000000	1233.86	-451.43
2	FID	HRC-S-3	7.04	263	0.097	-0.044	0.007	0.015	0.000000	0.000000	-1159.53	570.81
3	GUIDE	472523760	8.24	529	-0.055	-0.181	0.064	0.101	331.645363	45.403260	728.65	-1441.67
4	GUIDE	472525528	6.64	529	-0.002	0.033	0.076	0.122	331.551102	45.248694	1190.48	-1837.29
5	GUIDE	472654568	9.45	529	0.105	0.040	0.115	0.189	332.194449	45.063576	2308.43	-472.78
6	GUIDE	472655152	9.44	527	0.020	0.097	0.098	0.159	332.504239	45.862991	-219.86	1108.33
7	GUIDE	472659832	9.46	528	-0.064	0.020	0.111	0.186	332.780399	46.098139	-839.61	2014.52

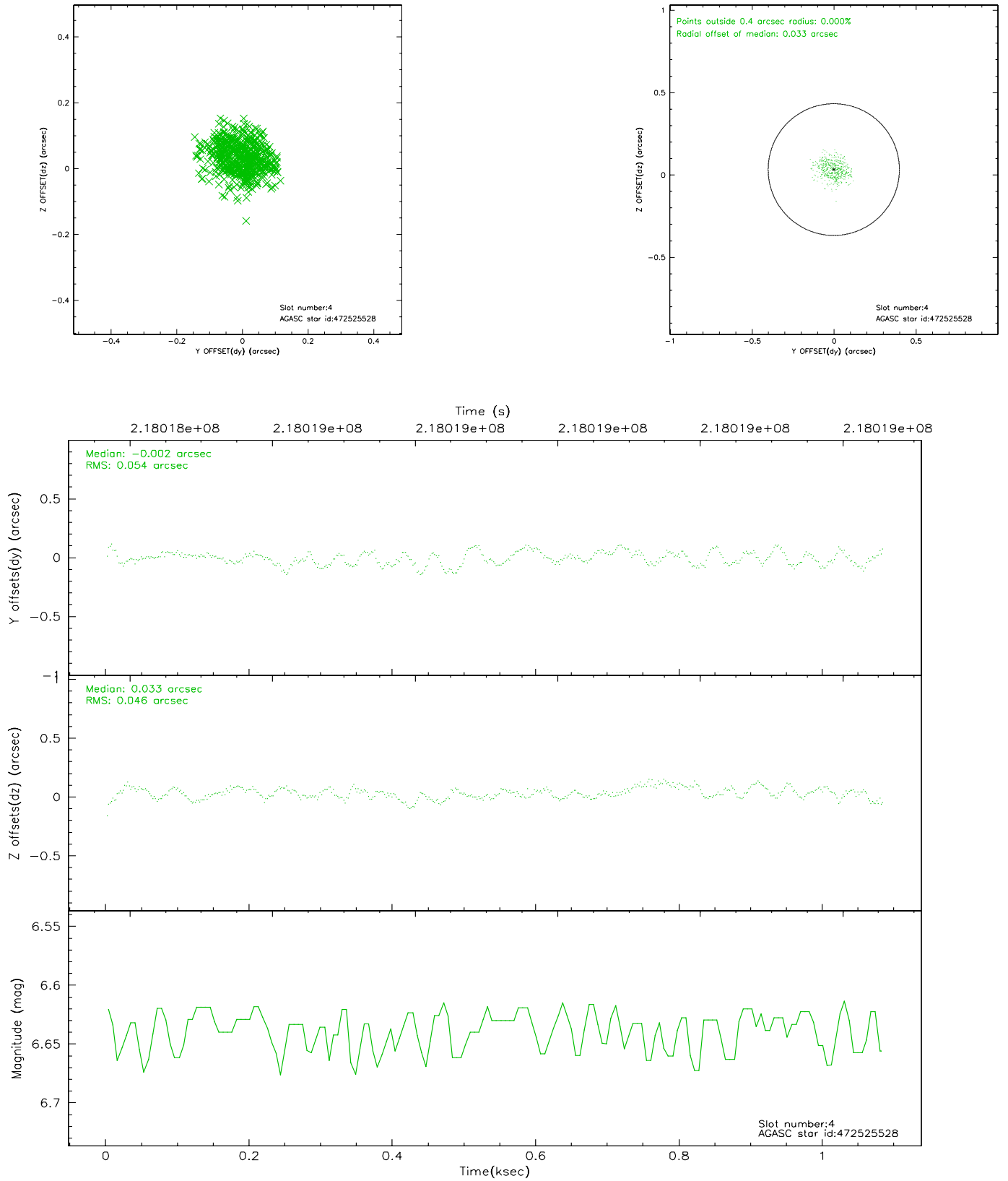


## 2.4 Star Slots

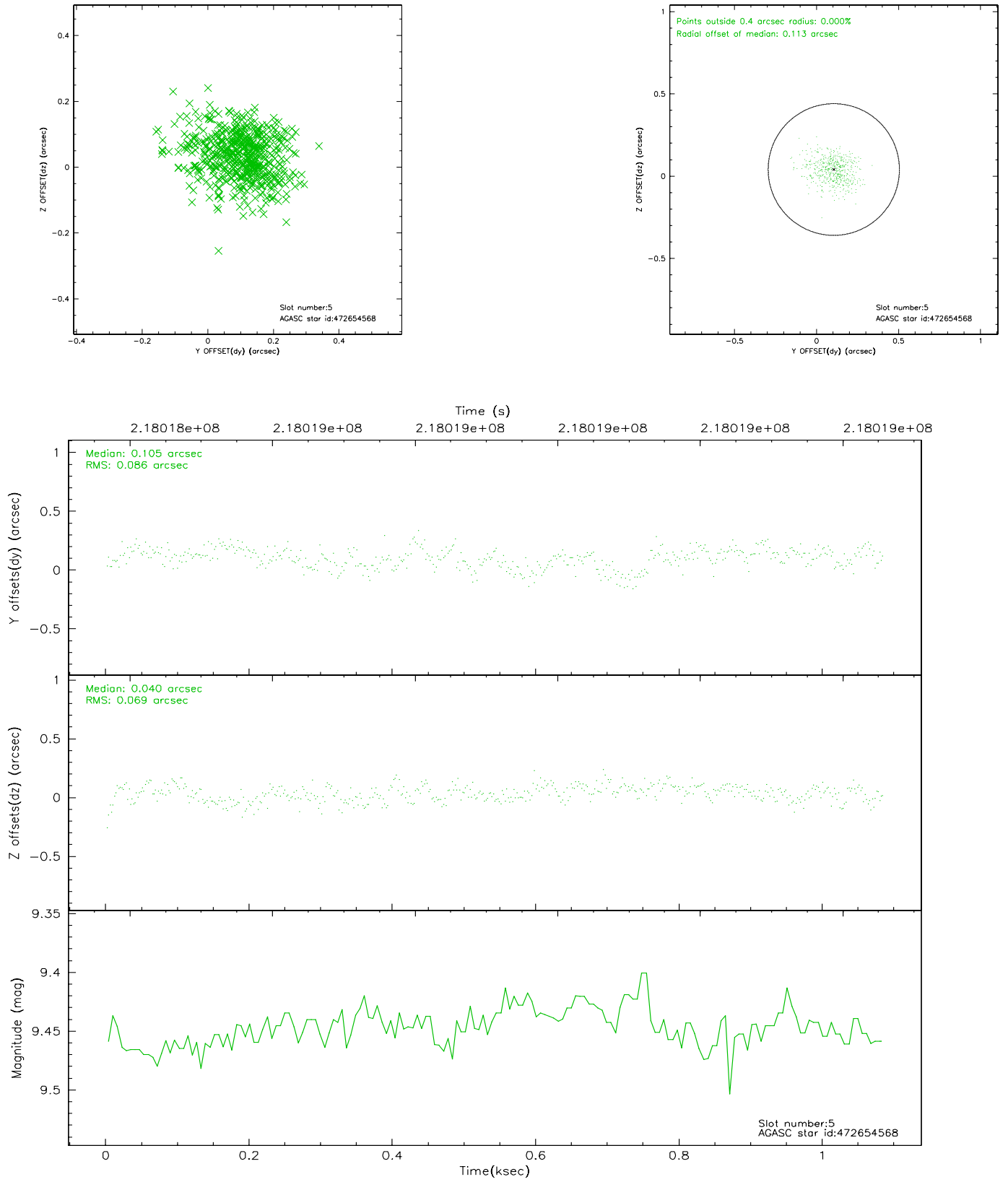
### 2.4.1 Slot 3



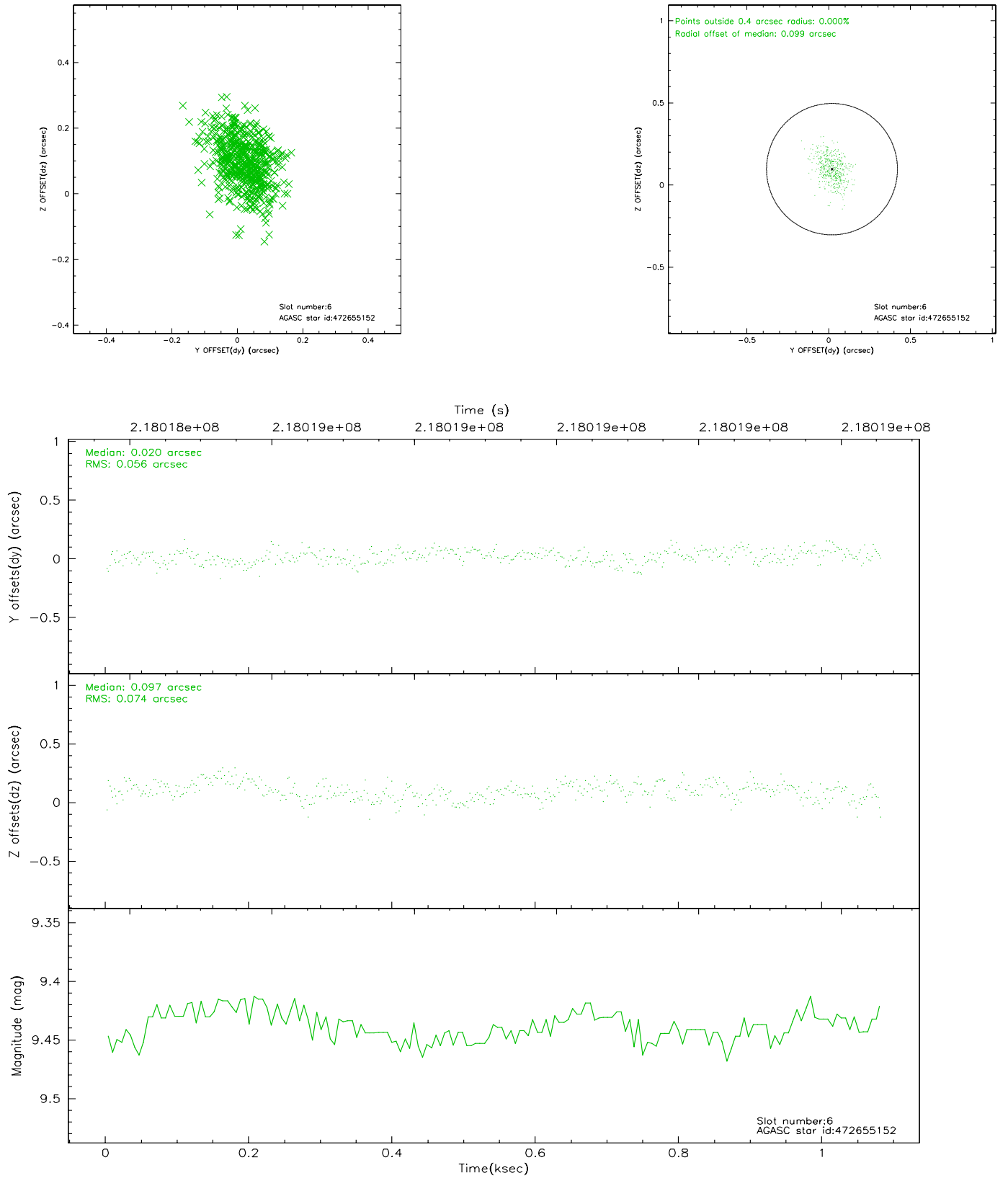
## 2.4.2 Slot 4



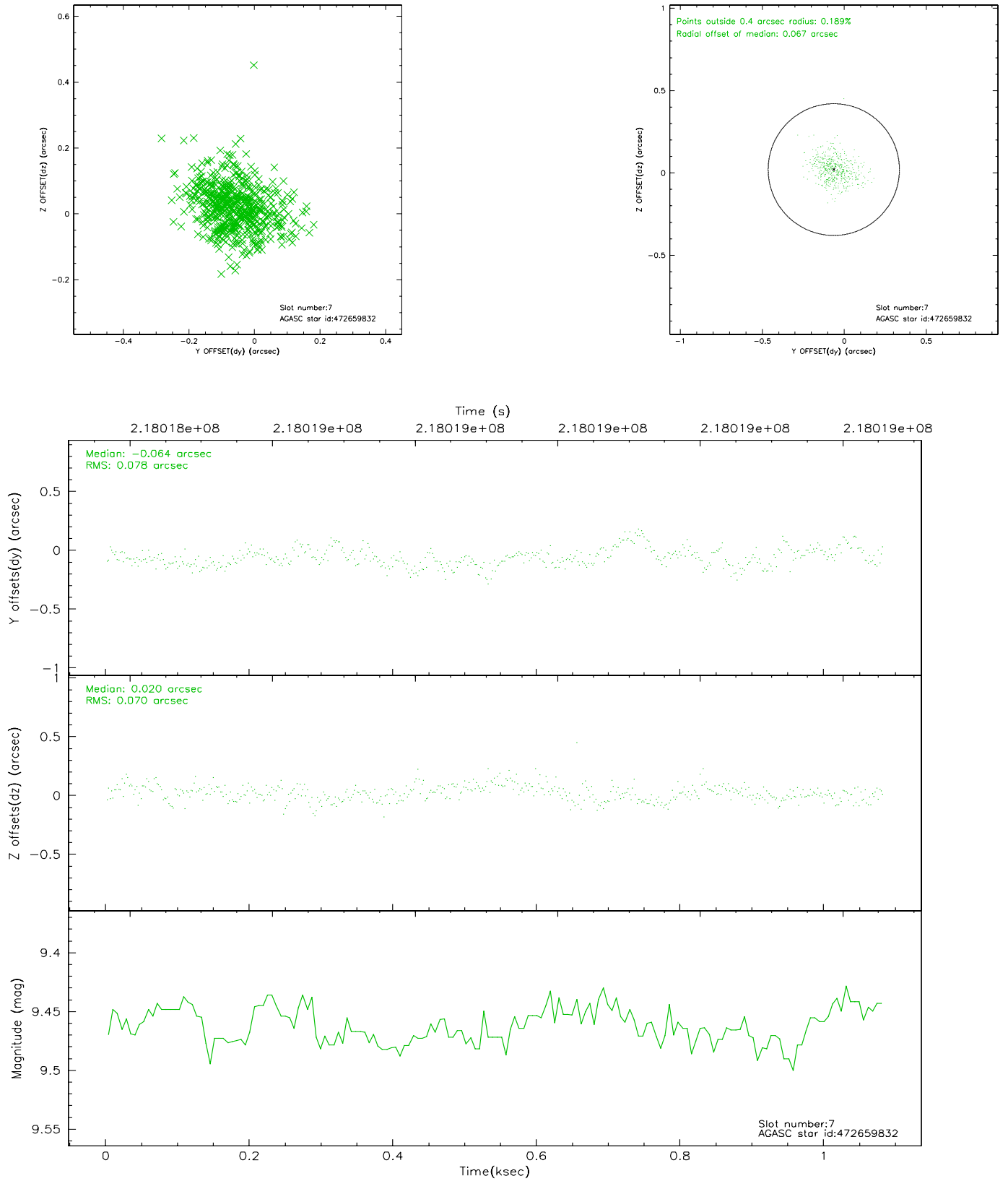
### 2.4.3 Slot 5



## 2.4.4 Slot 6

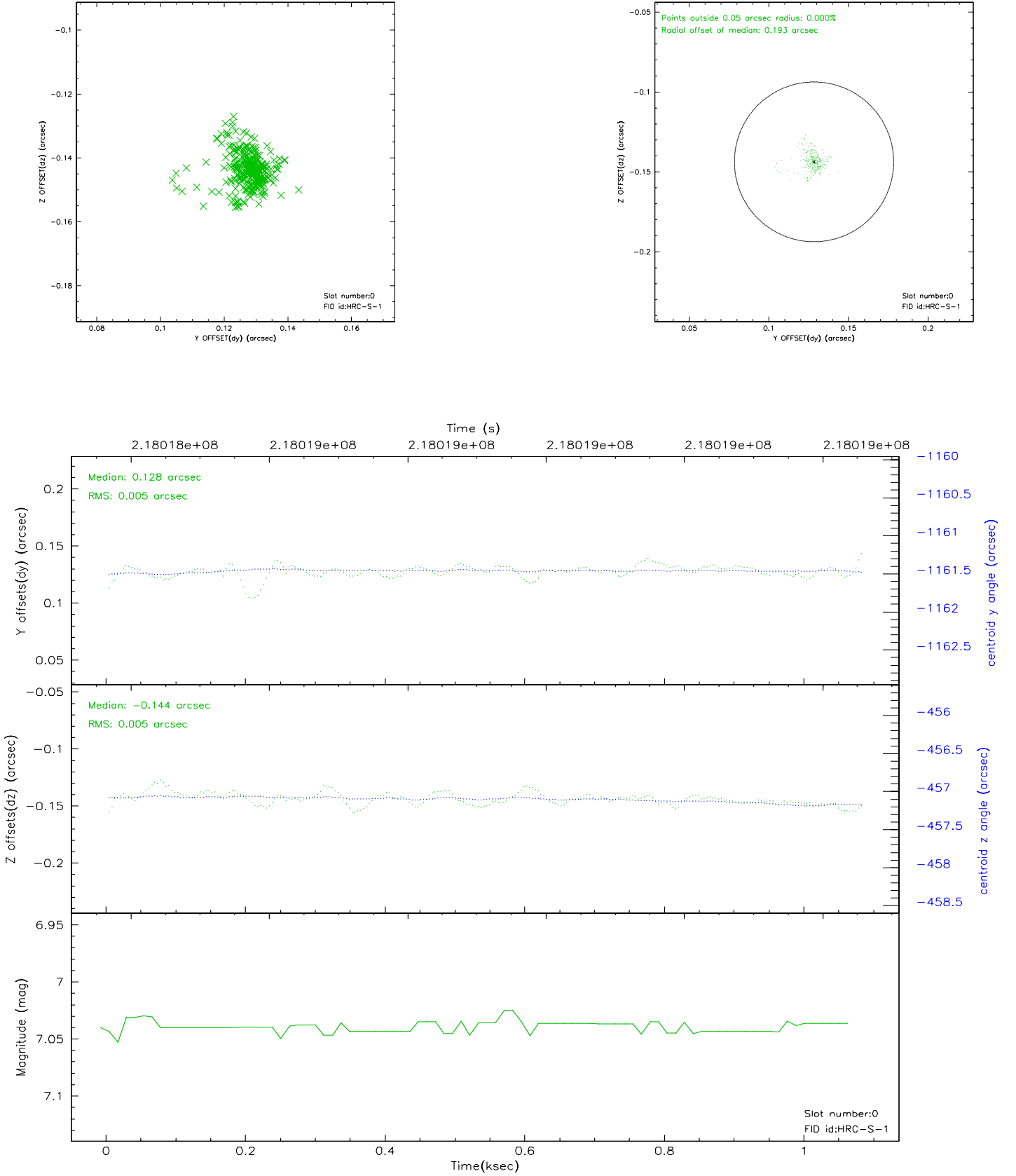


## 2.4.5 Slot 7

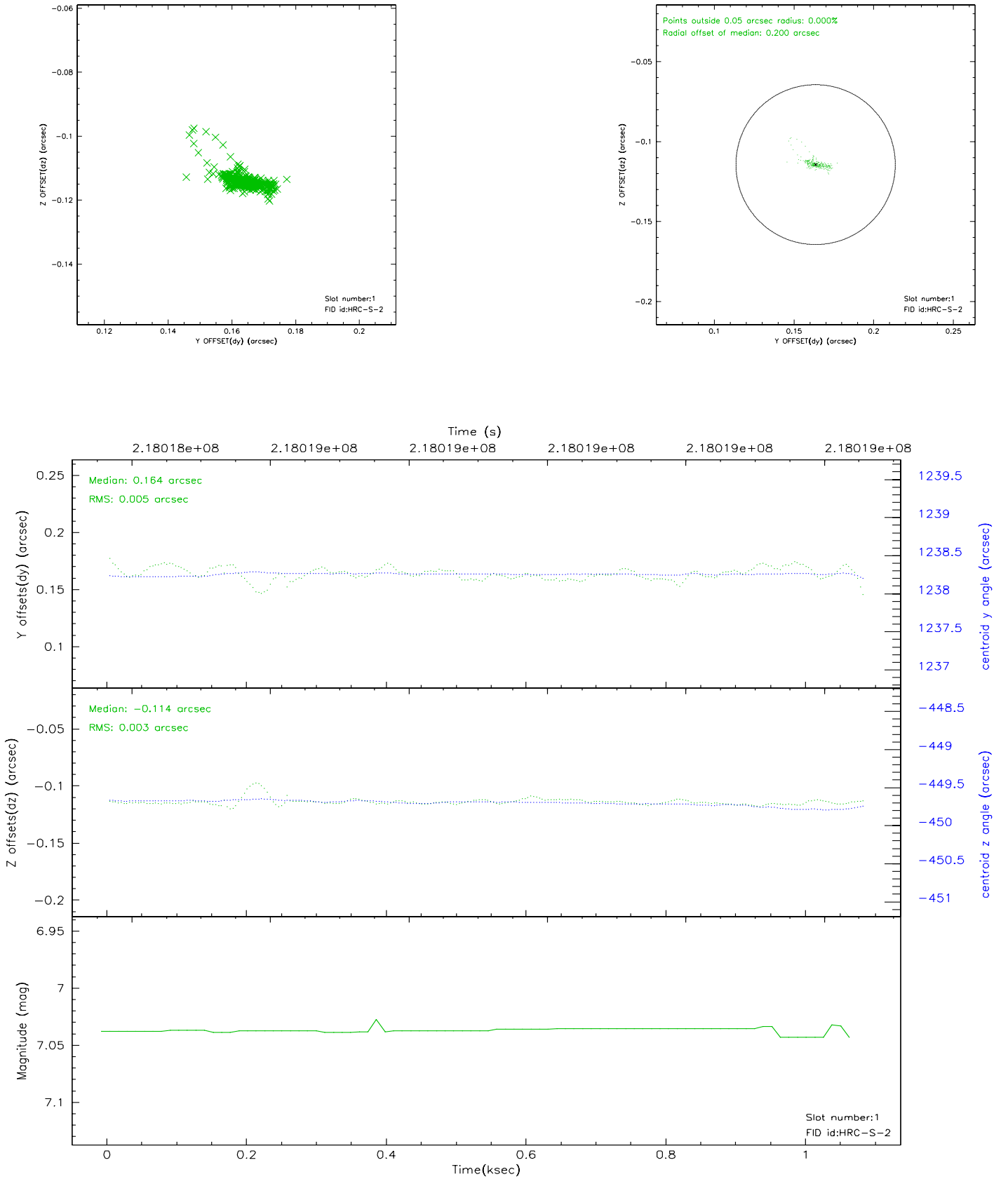


## 2.5 FID Slots

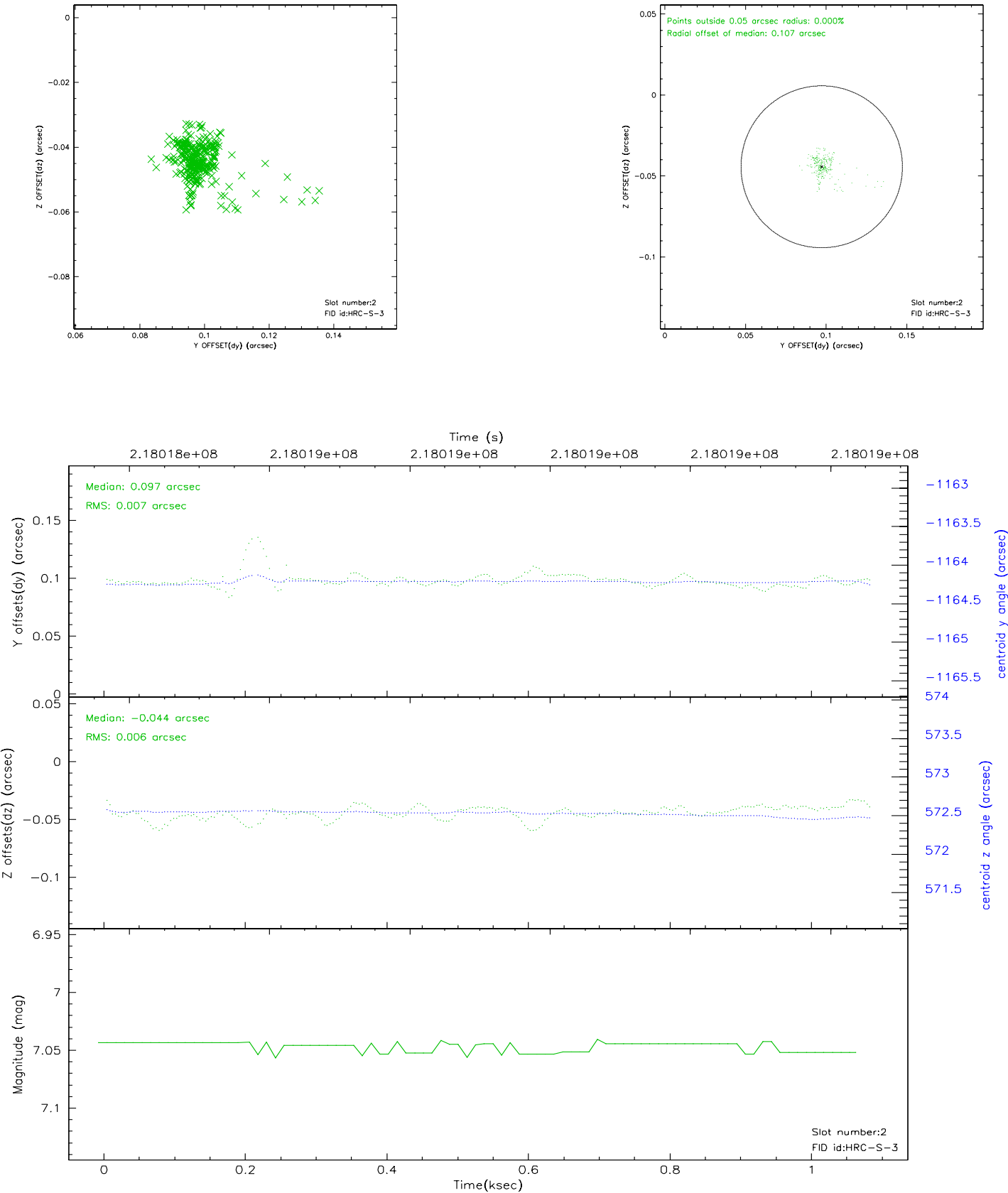
### 2.5.1 Slot 0



## 2.5.2 Slot 1

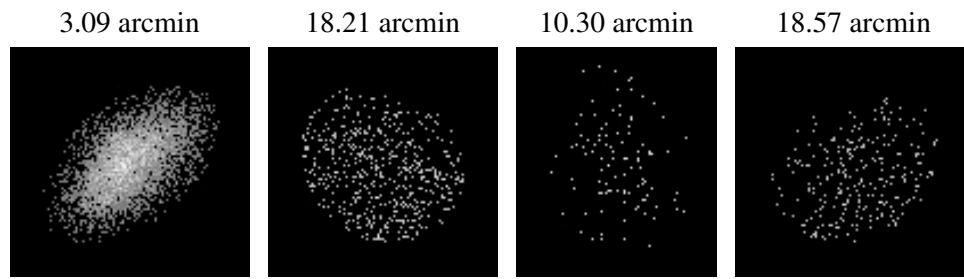


2.5.3 Slot 2





### 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	1.050625

## 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.