

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5114 - L2 Version 002  
Chandra X-Ray Center

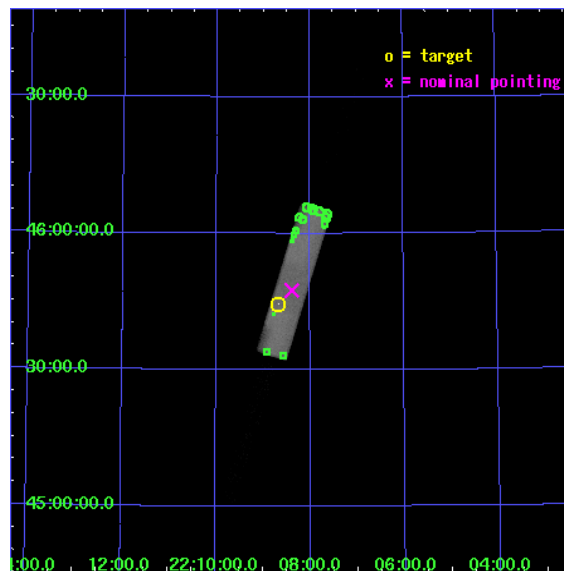
L2 Processing Date : Apr 10 2006

## 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	Parameters . . . . .	4
2.1.3	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

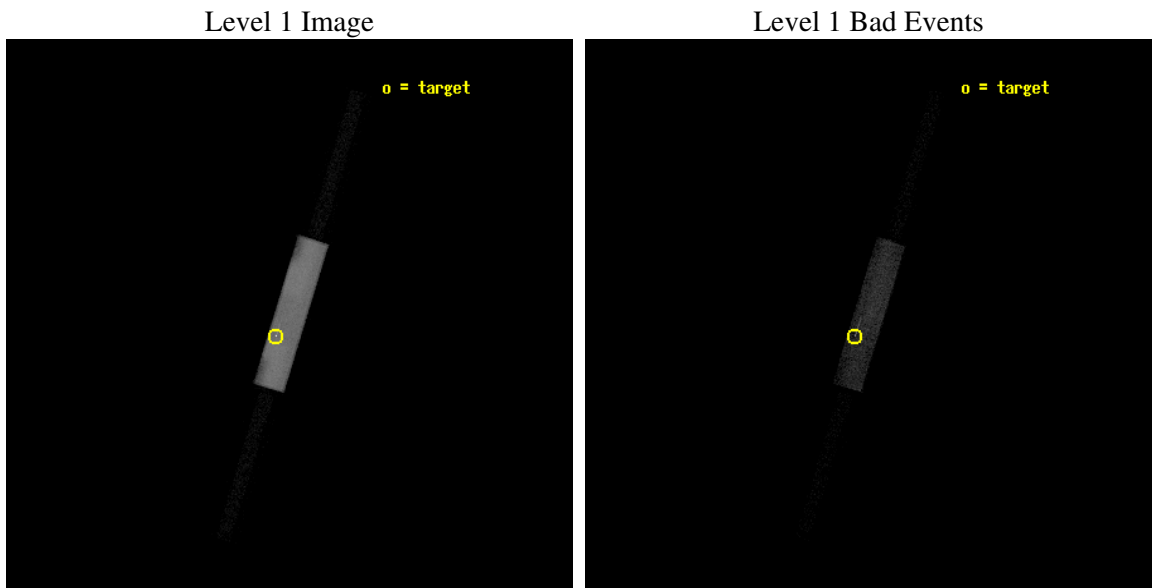
seq_num	290387
obs_id	5114
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.09733685067
dec_nom	45.791662789338
roll_nom	287.0561246159
revision	2
ontime	1059.0812975764
livetime	1012.1640614777
l2events	168716



## 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	2006-04-10T19:44:53
revision	2

sched_exp_time	900.000000
ontime	1088.8062989116
l1events	230794

### 2.1.3 Events

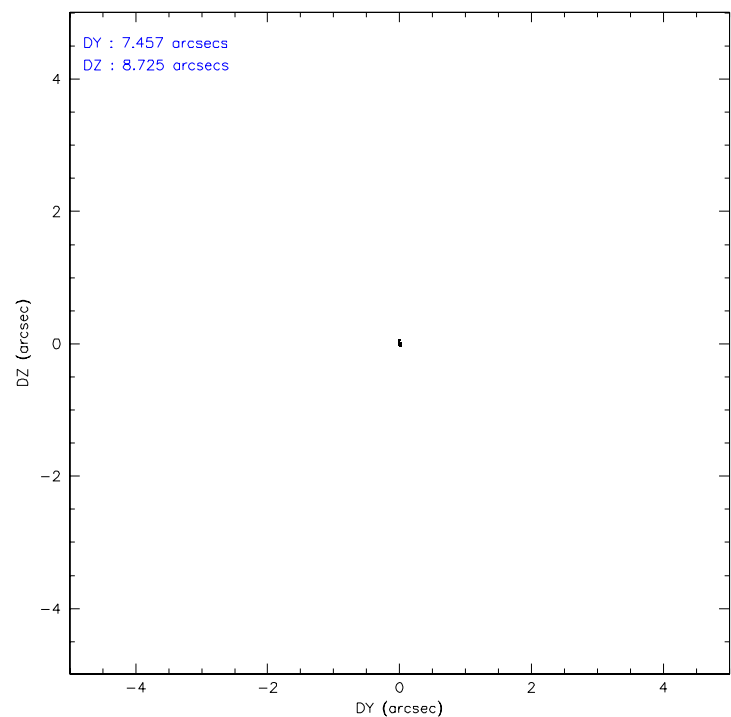
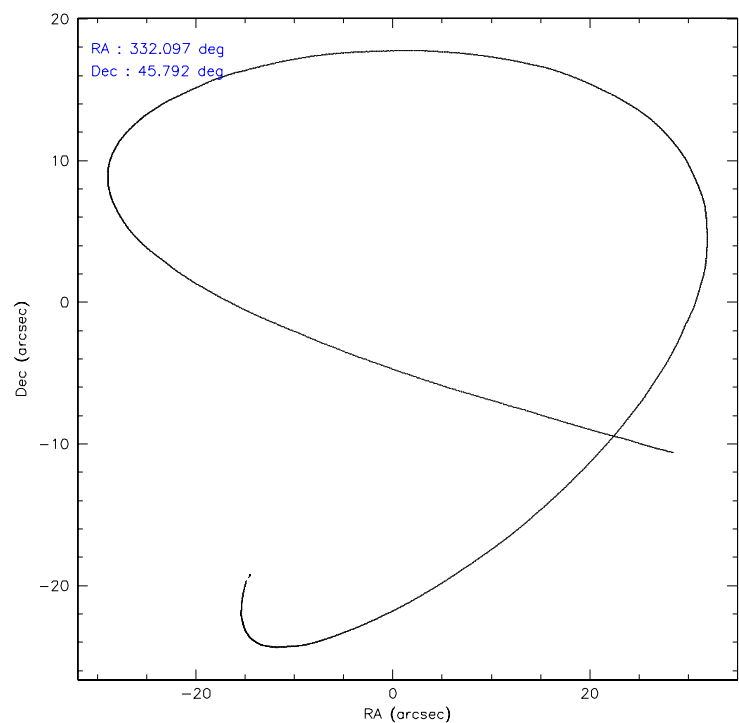
Level 1 Events

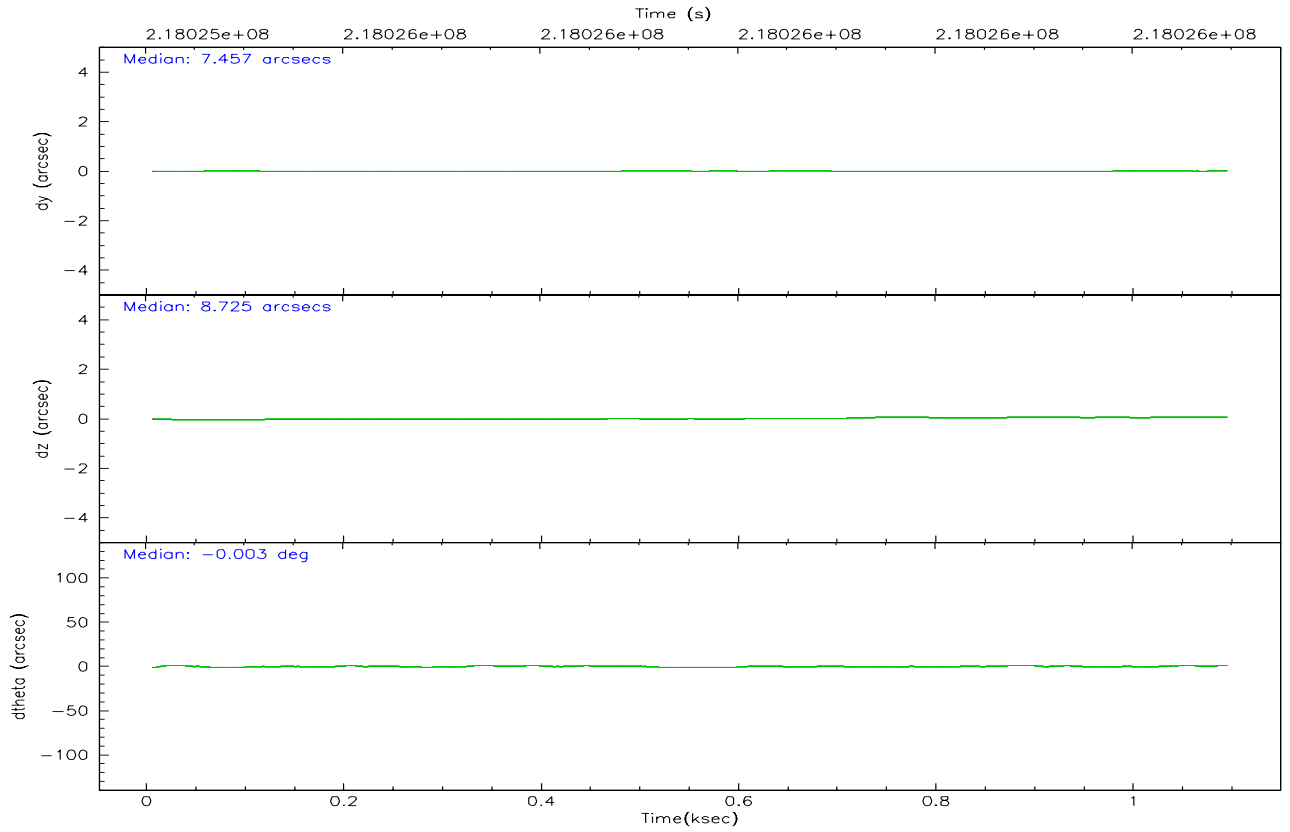
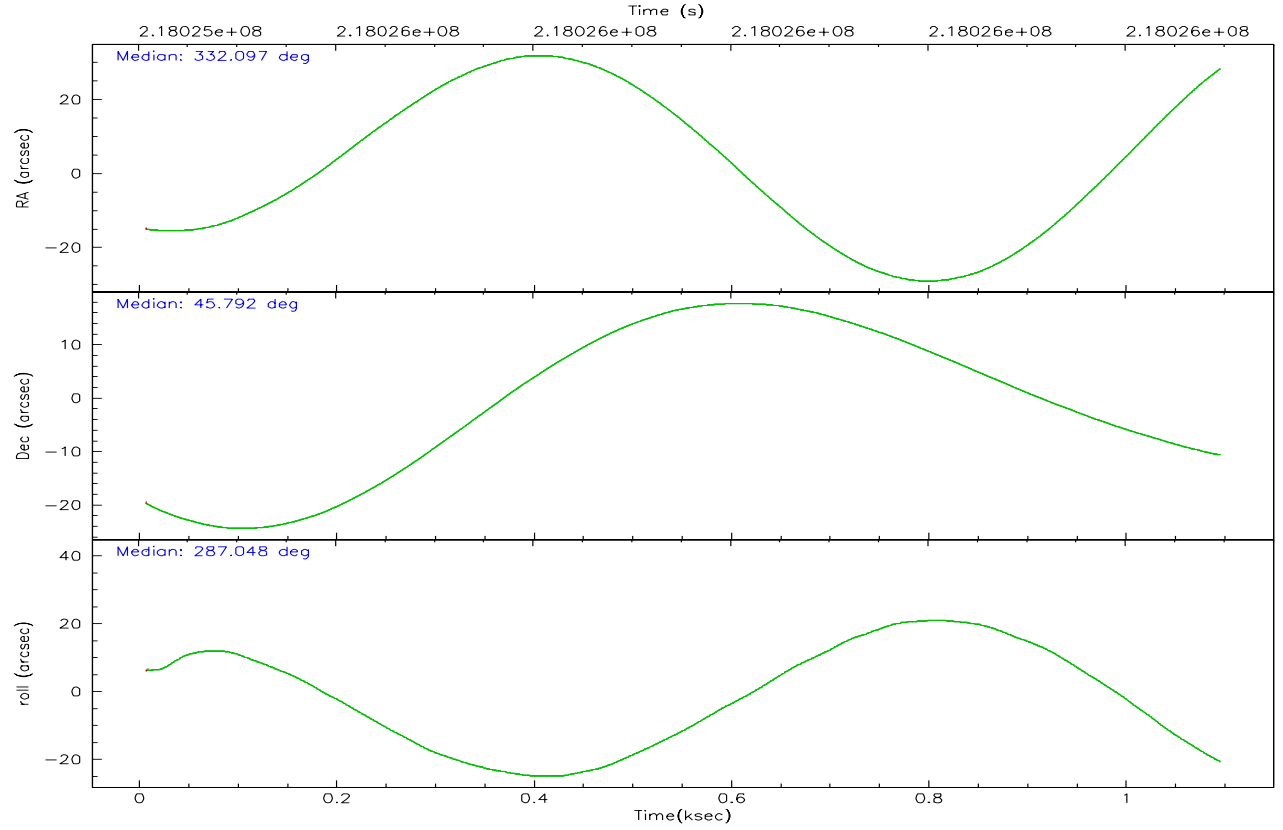
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1763	227624	1407
rejected events	1749	55083	1290
rejected %	99%	24%	91%

## 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	332.066810	332.0973368506665			
Pointing Dec	45.810250	45.7916627893381			
Pointing Roll	287.010755	287.0561246159005			
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	218025603.184000	218025226.66899			
Observation start date	2004-11-28T10:38:59	2004-11-28T10:33:46			
Observation end time	218026503.184000	218026637.06905			
Observation end date	2004-11-28T10:53:59	2004-11-28T10:57:17			

### 2.3 Aspect





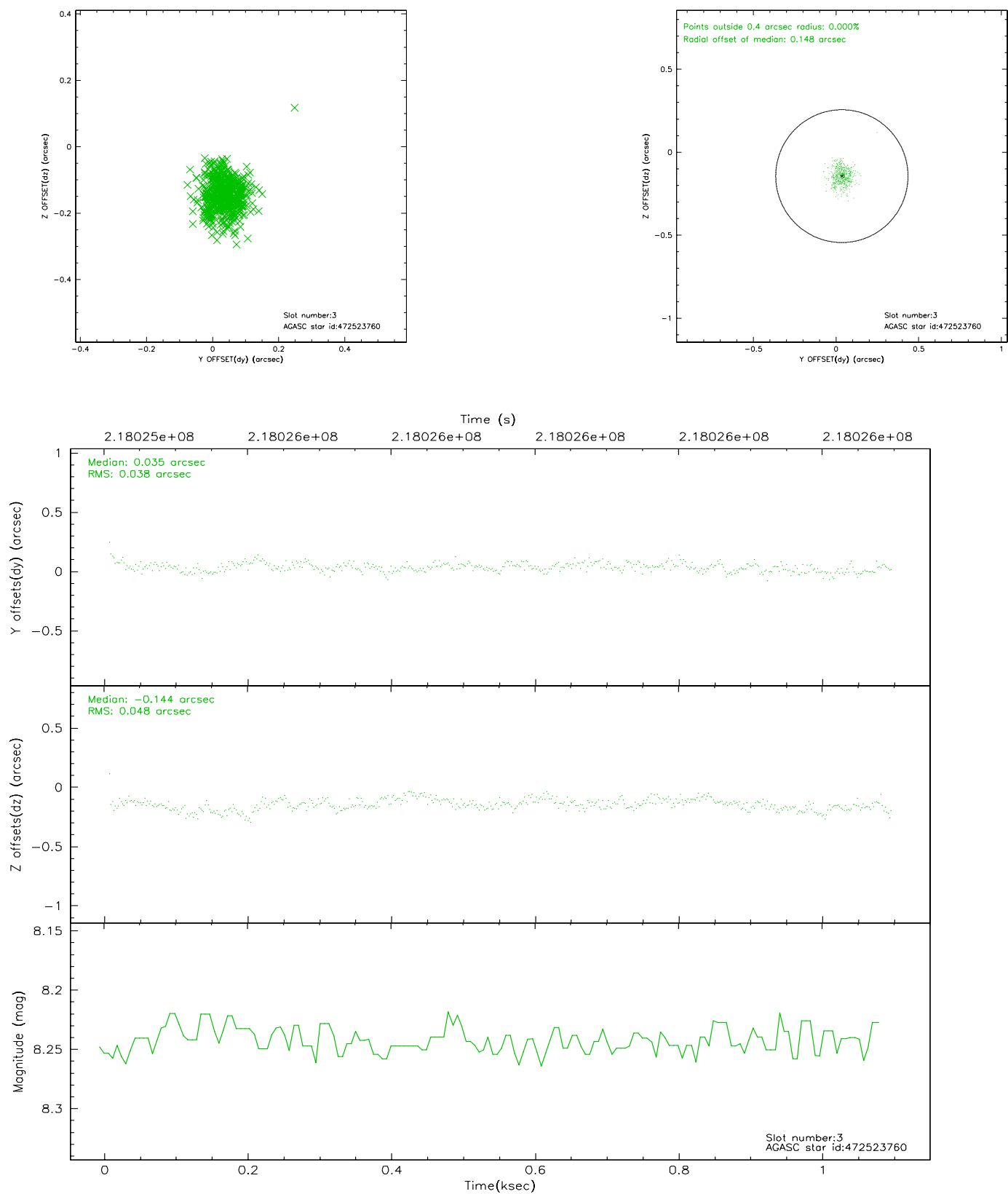
### Slot Statistics

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	266	0.138	-0.146	0.006	0.011	0.000000	0.000000	-1161.61	-457.37
1	FID	HRC-S-2	7.03	266	0.161	-0.117	0.005	0.010	0.000000	0.000000	1233.73	-451.71
2	FID	HRC-S-3	7.05	266	0.090	-0.039	0.007	0.013	0.000000	0.000000	-1159.74	570.56
3	GUIDE	472523760	8.24	532	0.035	-0.144	0.063	0.105	331.645363	45.403260	1087.30	-1444.01
4	GUIDE	472525528	6.65	532	0.106	0.053	0.089	0.133	331.551102	45.248694	1549.49	-1840.05
5	GUIDE	472535576	7.85	532	-0.152	-0.016	0.062	0.099	331.438373	46.291802	-2117.80	-987.23
6	GUIDE	472655152	9.43	532	-0.023	0.062	0.111	0.191	332.504239	45.862991	132.55	1105.80
7	GUIDE	472659832	9.47	531	0.039	0.042	0.118	0.202	332.780399	46.098139	-477.28	2013.52

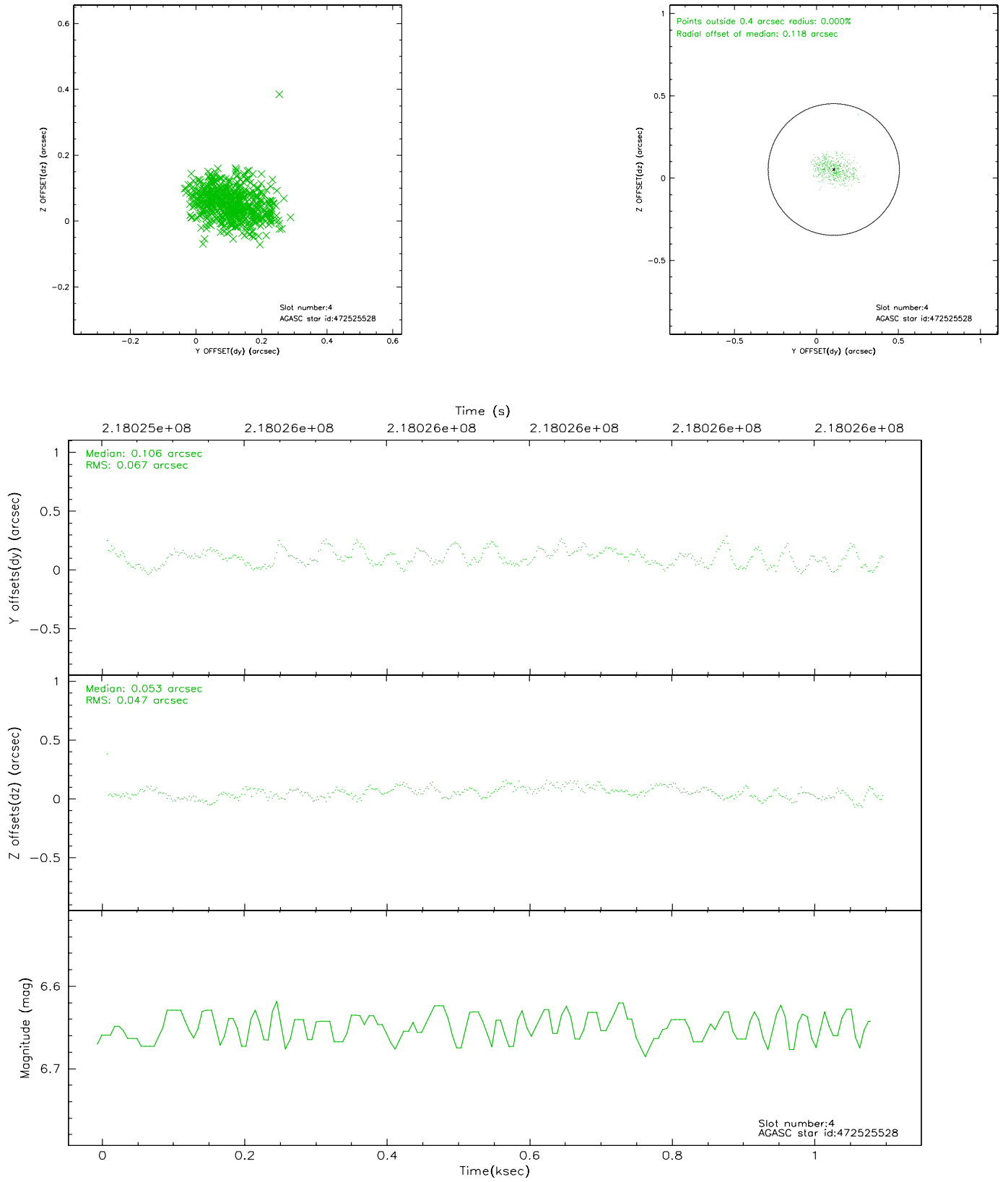


## 2.4 Star Slots

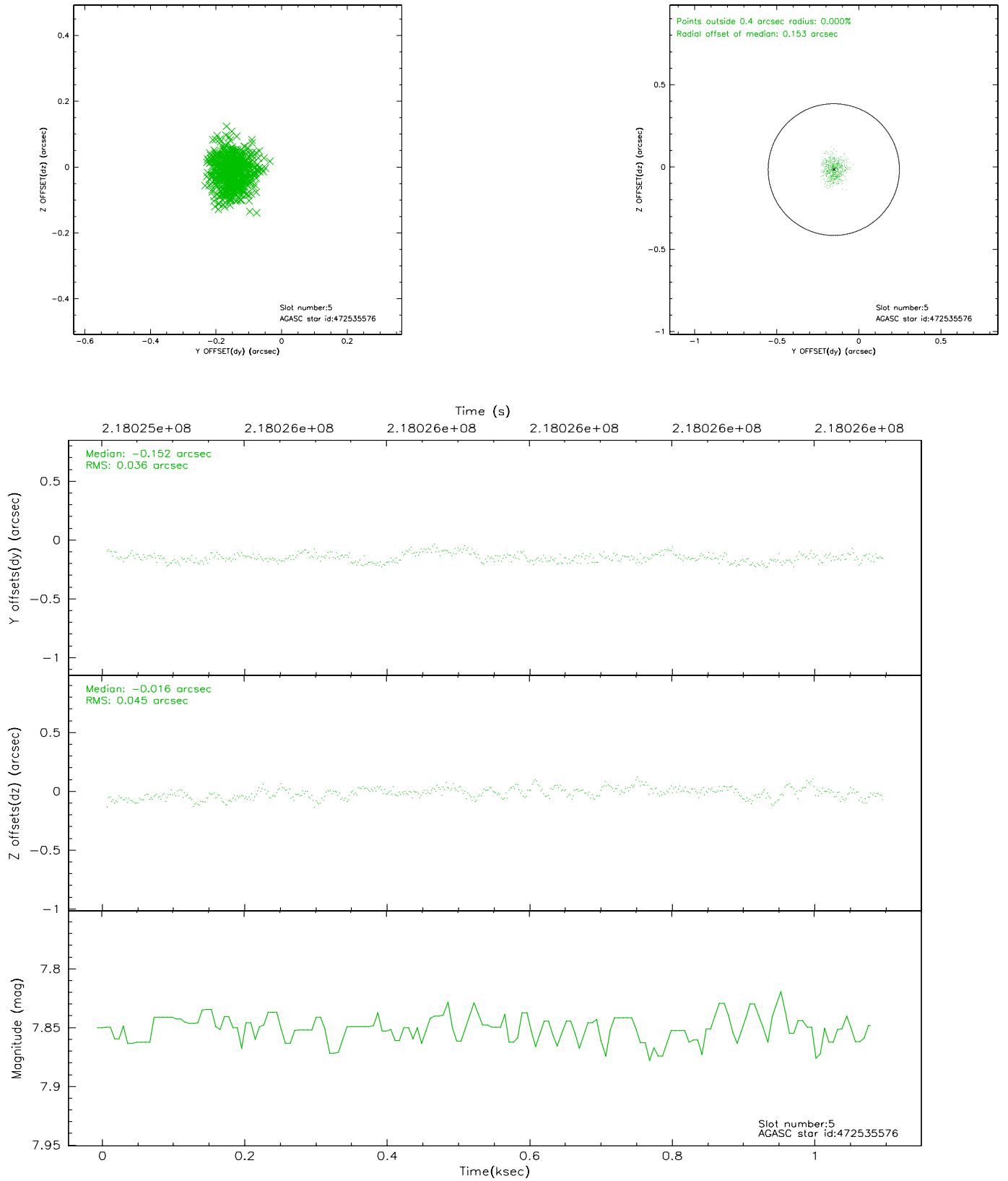
### 2.4.1 Slot 3



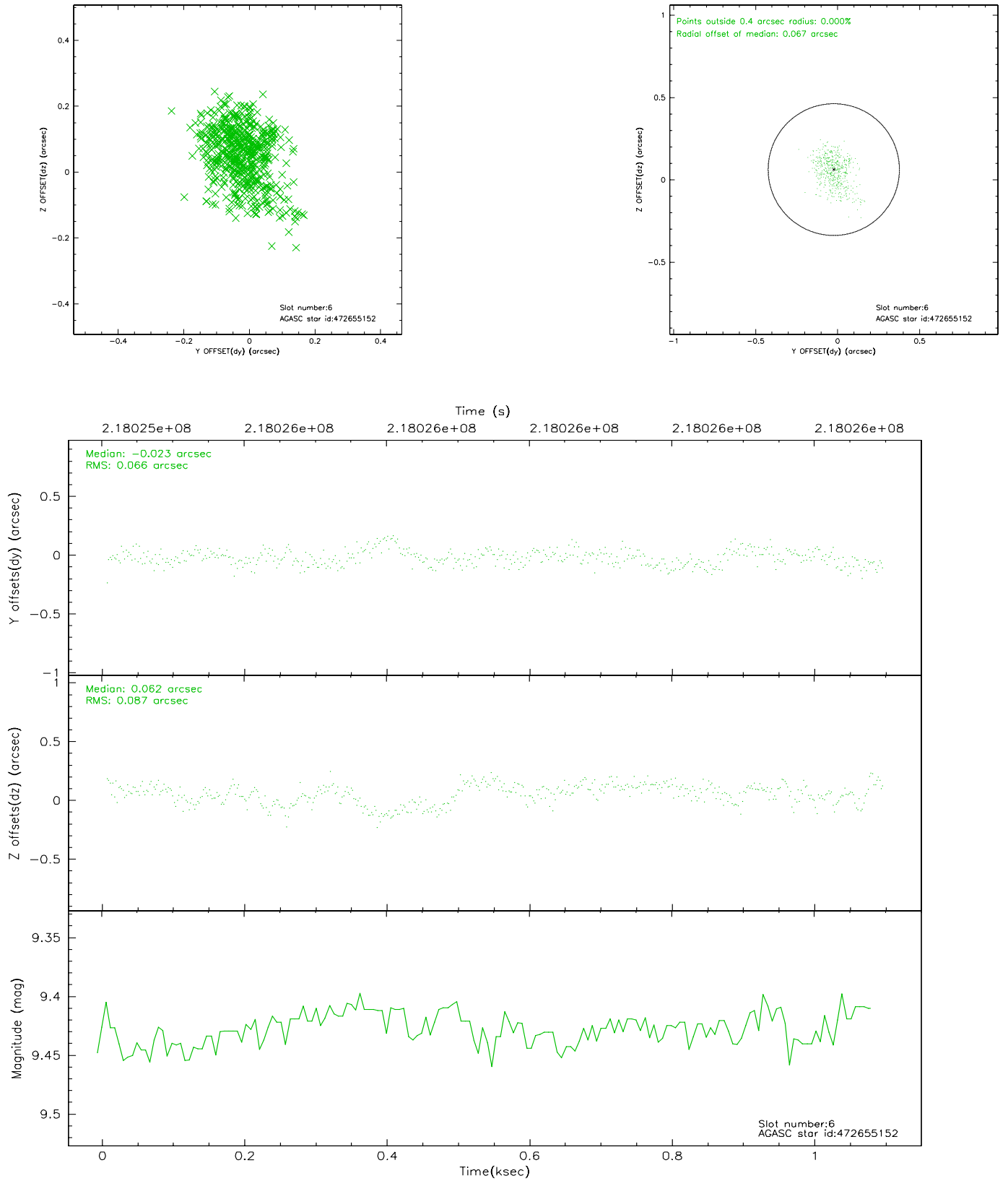
## 2.4.2 Slot 4



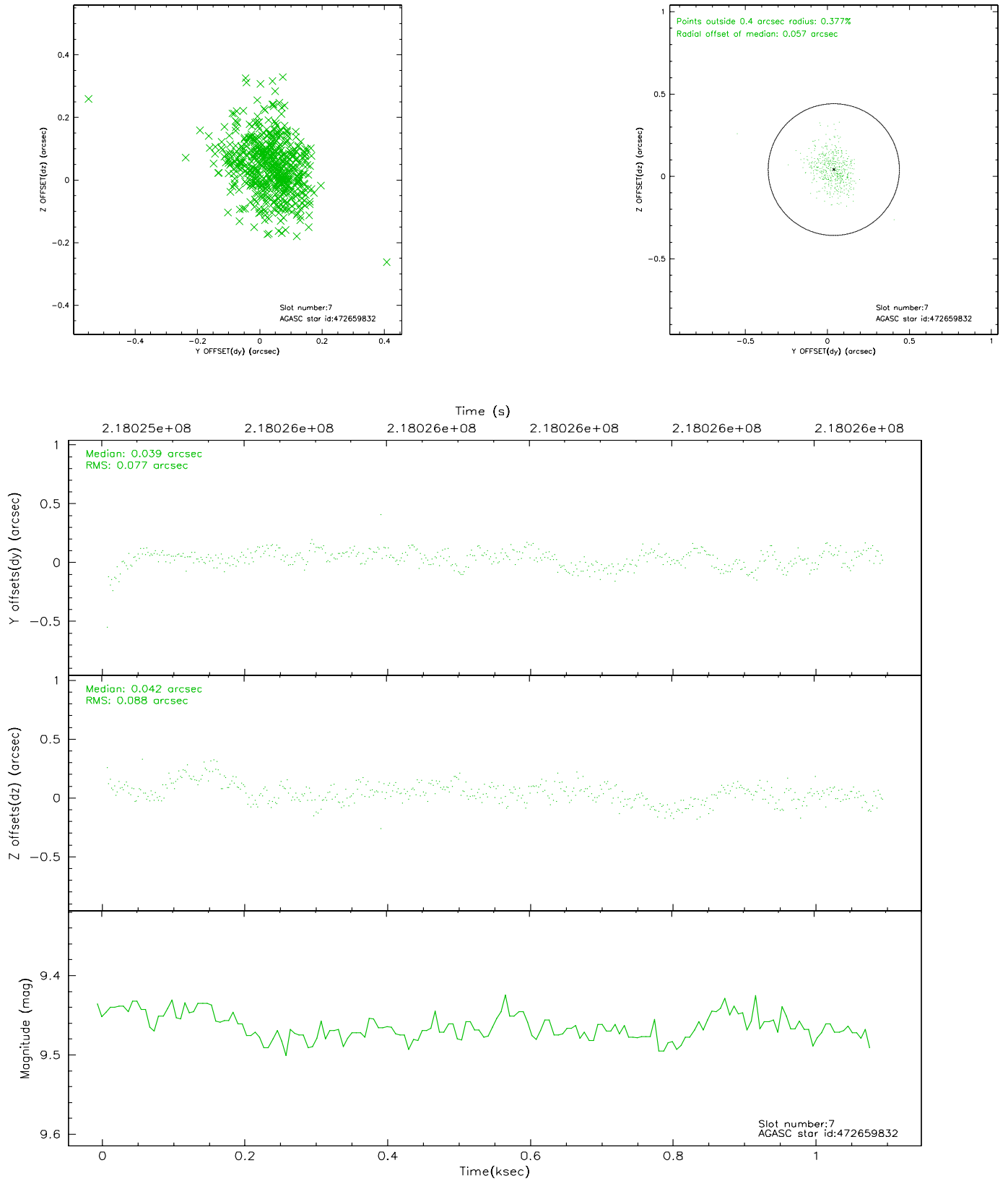
### 2.4.3 Slot 5



## 2.4.4 Slot 6

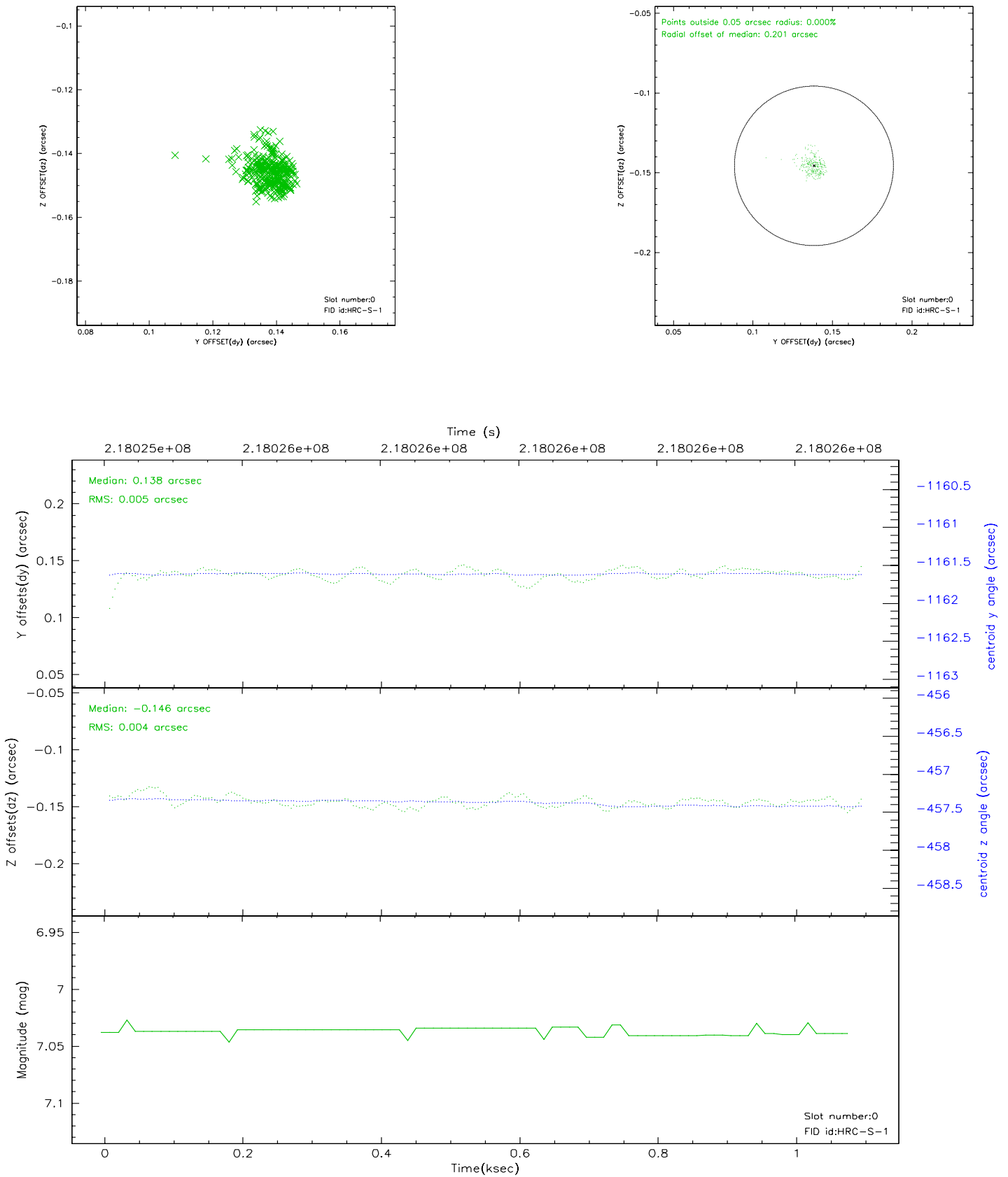


## 2.4.5 Slot 7

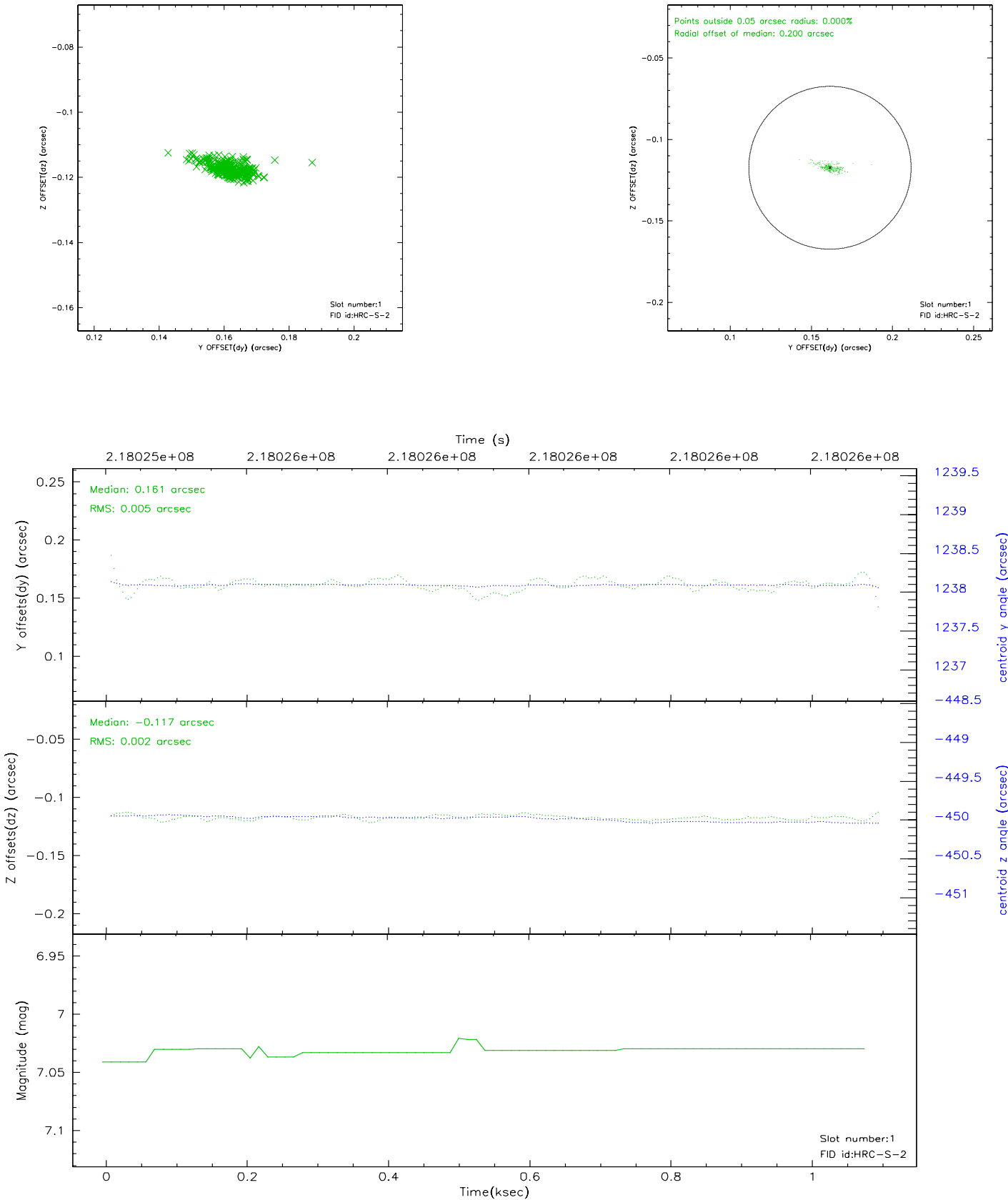


## 2.5 FID Slots

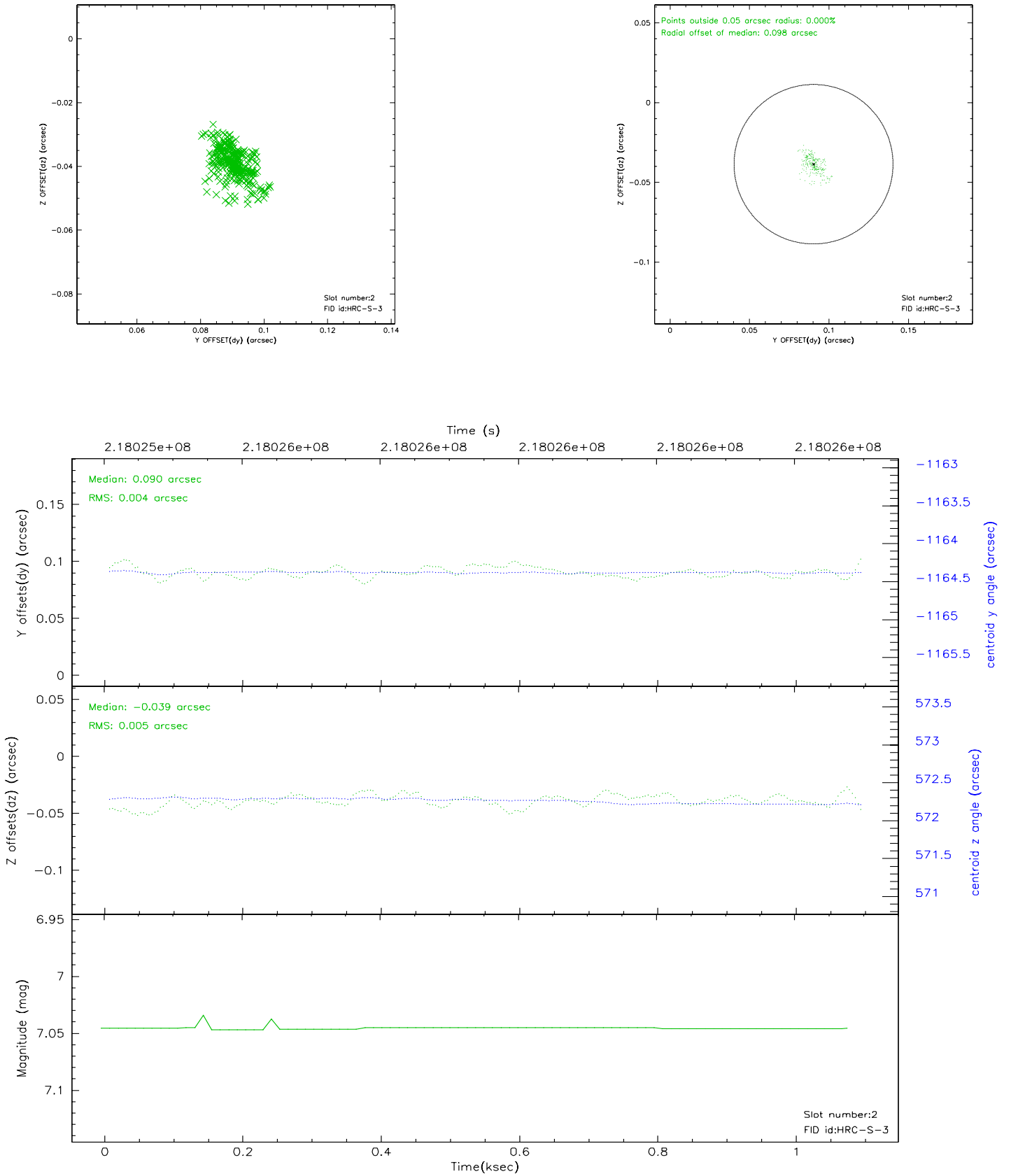
### 2.5.1 Slot 0



2.5.2 Slot 1

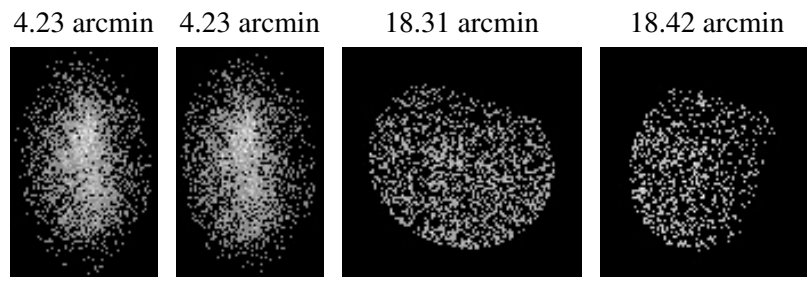


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	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	1.059081

## 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.