

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5075 - L2 Version 3  
Chandra X-Ray Center

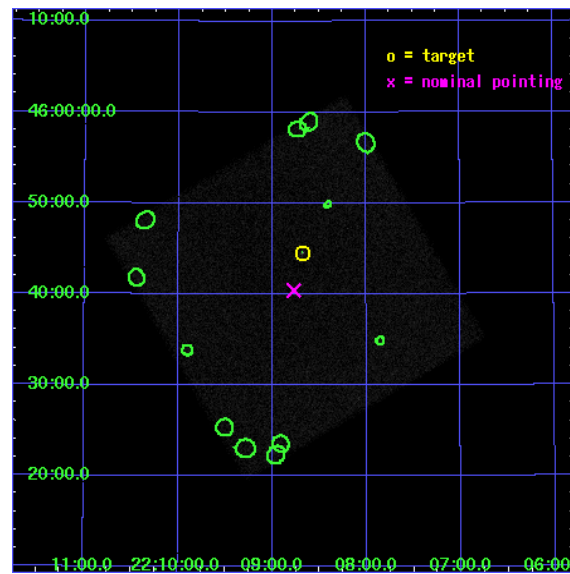
L2 Processing Date : Nov 23 2007

## 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

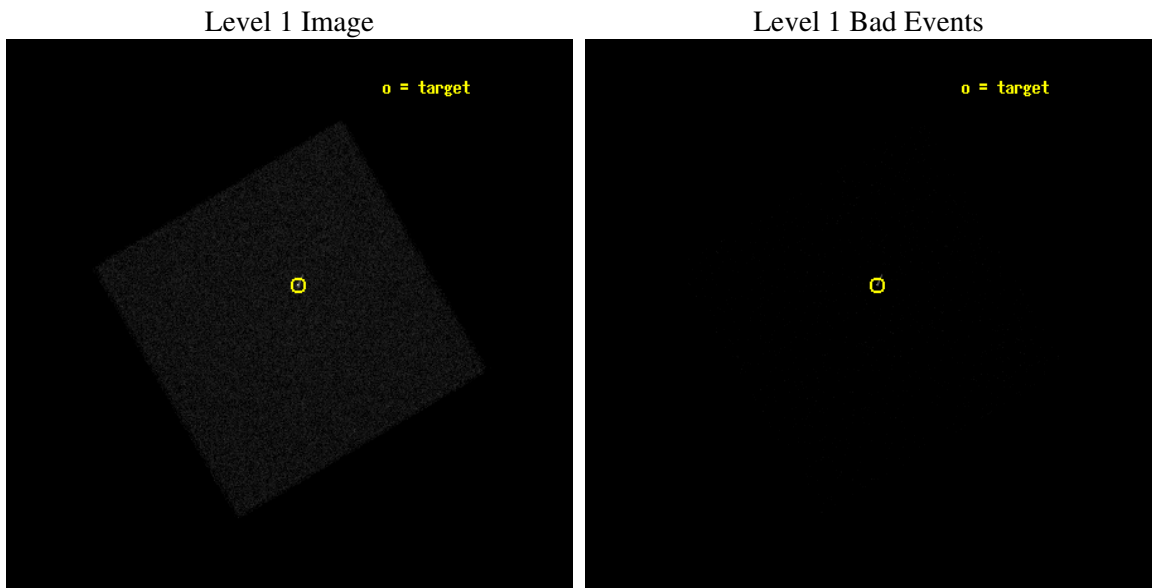
seq_num	290348
obs_id	5075
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.19256822843
dec_nom	45.673554573999
roll_nom	284.60351940936
revision	3
ontime	1081.6312986314
livetime	1053.6040979249
l2events	97493



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-24T03:14:18
revision	3

sched_exp_time	900.000000
ontime	1081.6312986314
l1events	184838

### 2.1.3 Events

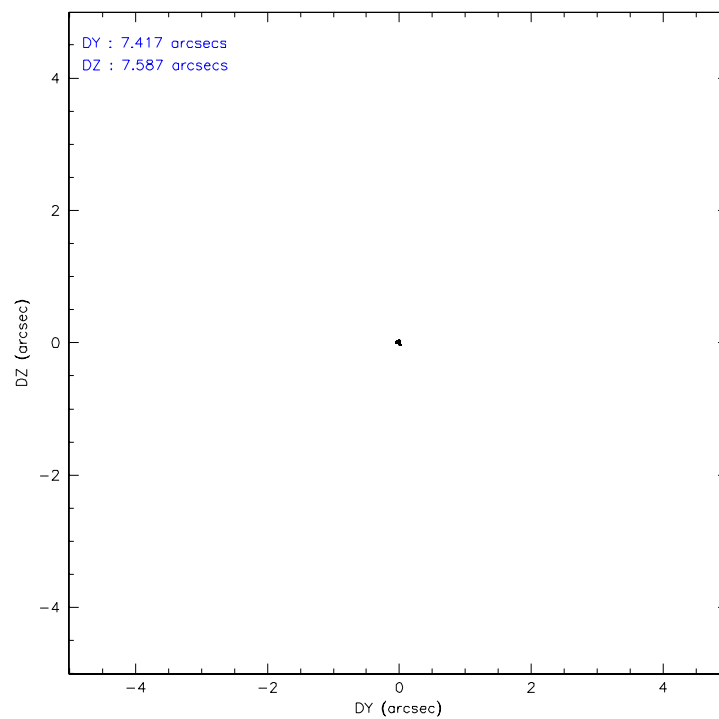
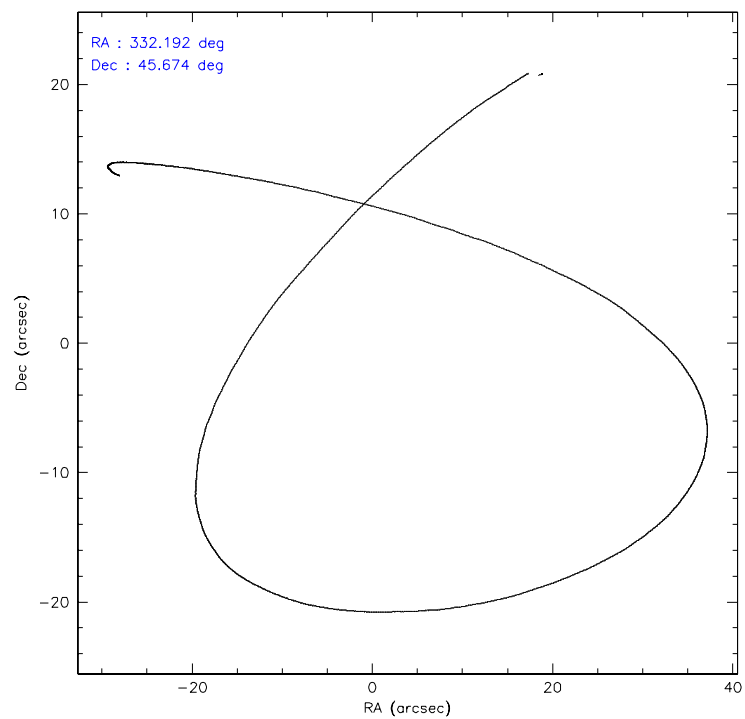
#### Level 1 Events

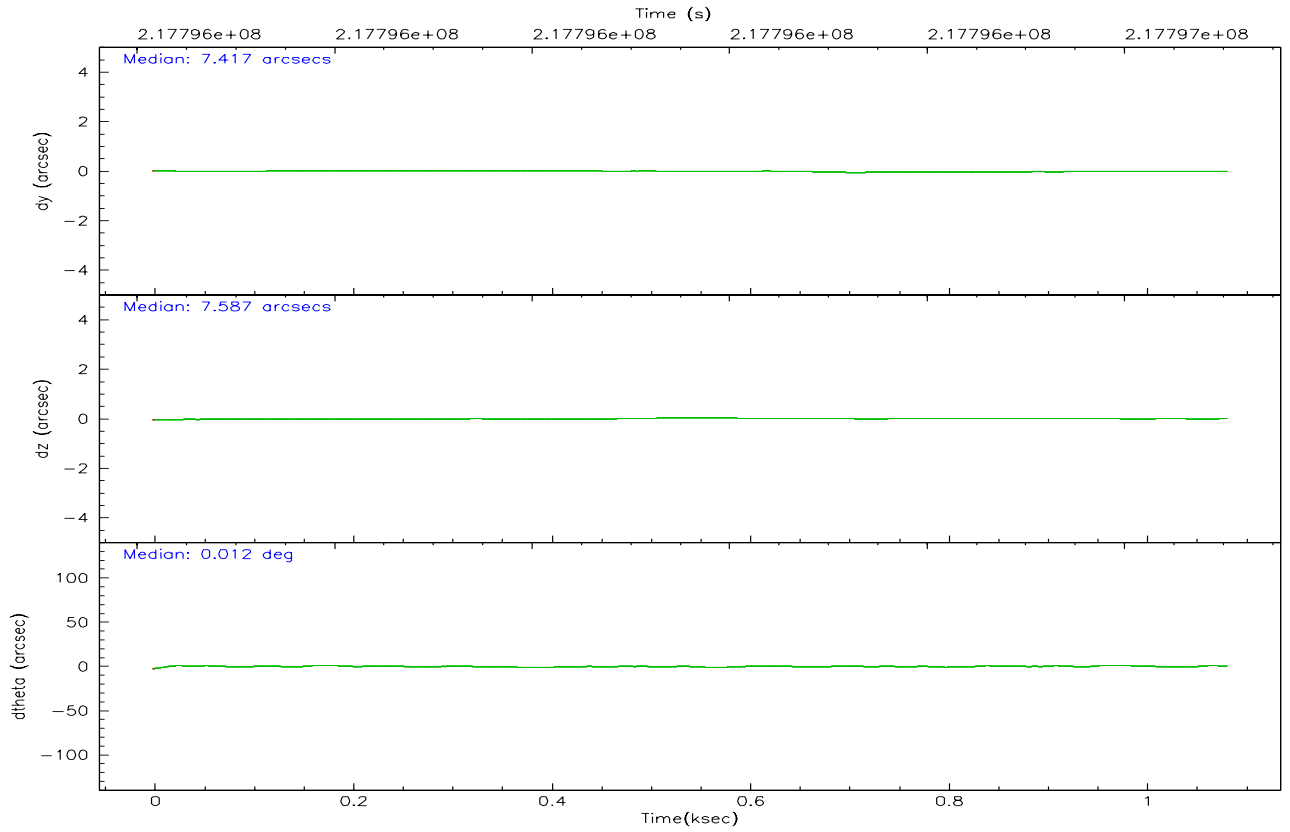
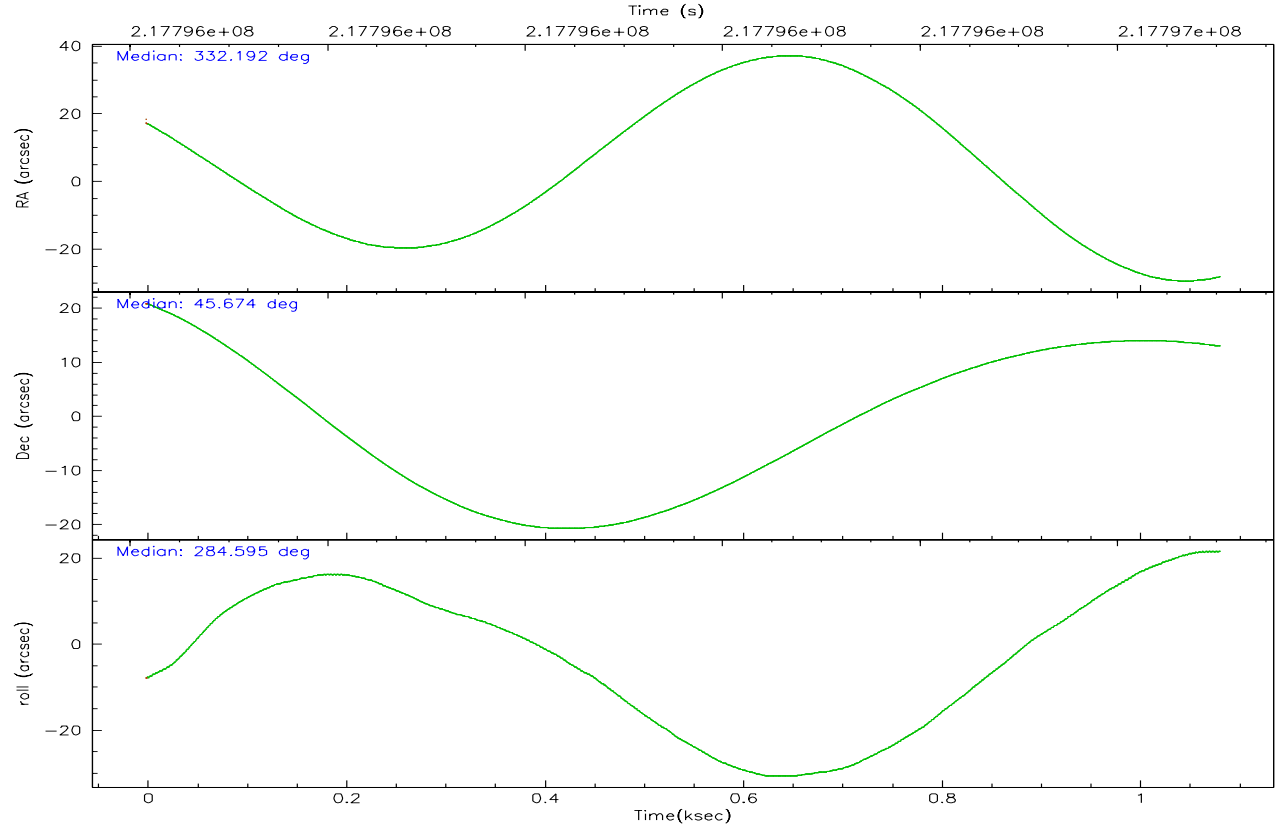
	<b>segment 0</b>
level 1 events	184838
rejected events	46388
rejected %	25%

## 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	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	332.165517	332.1925682284332			
Pointing Dec	45.692548	45.67355457399949			
Pointing Roll	284.718435	284.6035194093563			
SIM focus pos (mm)	-1.040293	-1.038866356238299			
SIM defocus (mm)	0	0.001426264420575141			
SIM translation stage pos (mm)	126.985494	126.9854943052878			
SIM translation stage offset (mm)	0	-5.413686238853188e-06			
Observation start time	217795797.184000	217795421.14616			
Observation start date	2004-11-25T18:48:53	2004-11-25T18:43:41			
Observation end time	217796697.184000	217796831.03372			
Observation end date	2004-11-25T19:03:53	2004-11-25T19:07:11			

## 2.3 Aspect





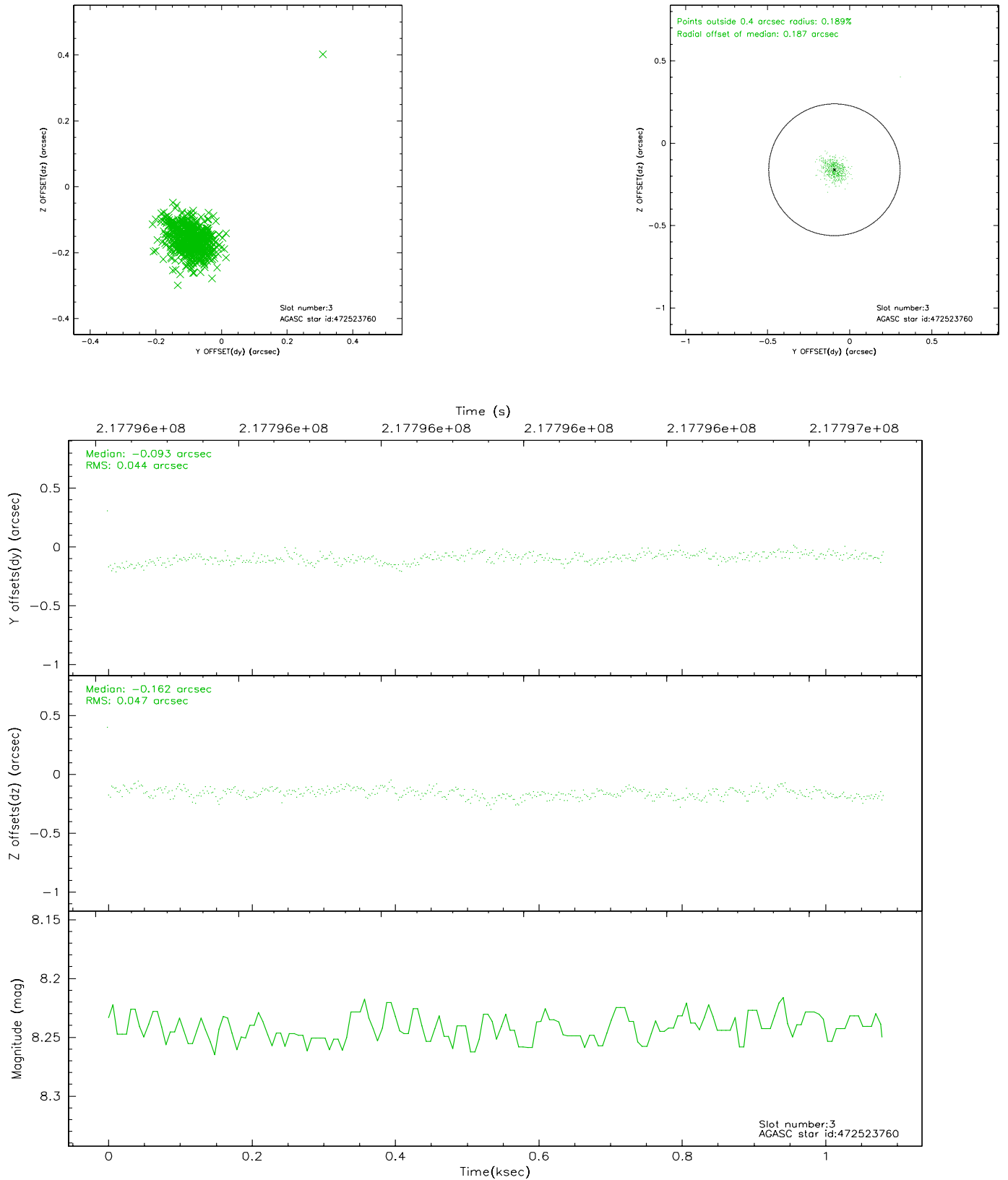
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.01	265	-0.020	-0.010	0.006	0.011	0.000000	0.000000	-763.12	-1295.46
1	FID	HRC-I-2	7.05	265	0.111	-0.074	0.008	0.012	0.000000	0.000000	846.77	-1302.09
2	FID	HRC-I-4	7.05	265	0.025	-0.009	0.005	0.009	0.000000	0.000000	1283.07	1001.66
3	GUIDE	472523760	8.24	529	-0.093	-0.162	0.060	0.101	331.645363	45.403260	669.61	-1532.99
4	GUIDE	472527720	7.02	529	0.027	-0.030	0.087	0.143	331.460205	45.112509	1558.80	-2262.12
5	GUIDE	472654568	9.44	526	0.116	0.070	0.115	0.183	332.194449	45.063576	2212.20	-505.88
6	GUIDE	472655152	9.44	529	0.001	0.067	0.103	0.191	332.504239	45.862991	-375.06	978.94
7	GUIDE	472659832	9.46	527	-0.060	0.068	0.103	0.171	332.780399	46.098139	-1028.80	1861.02

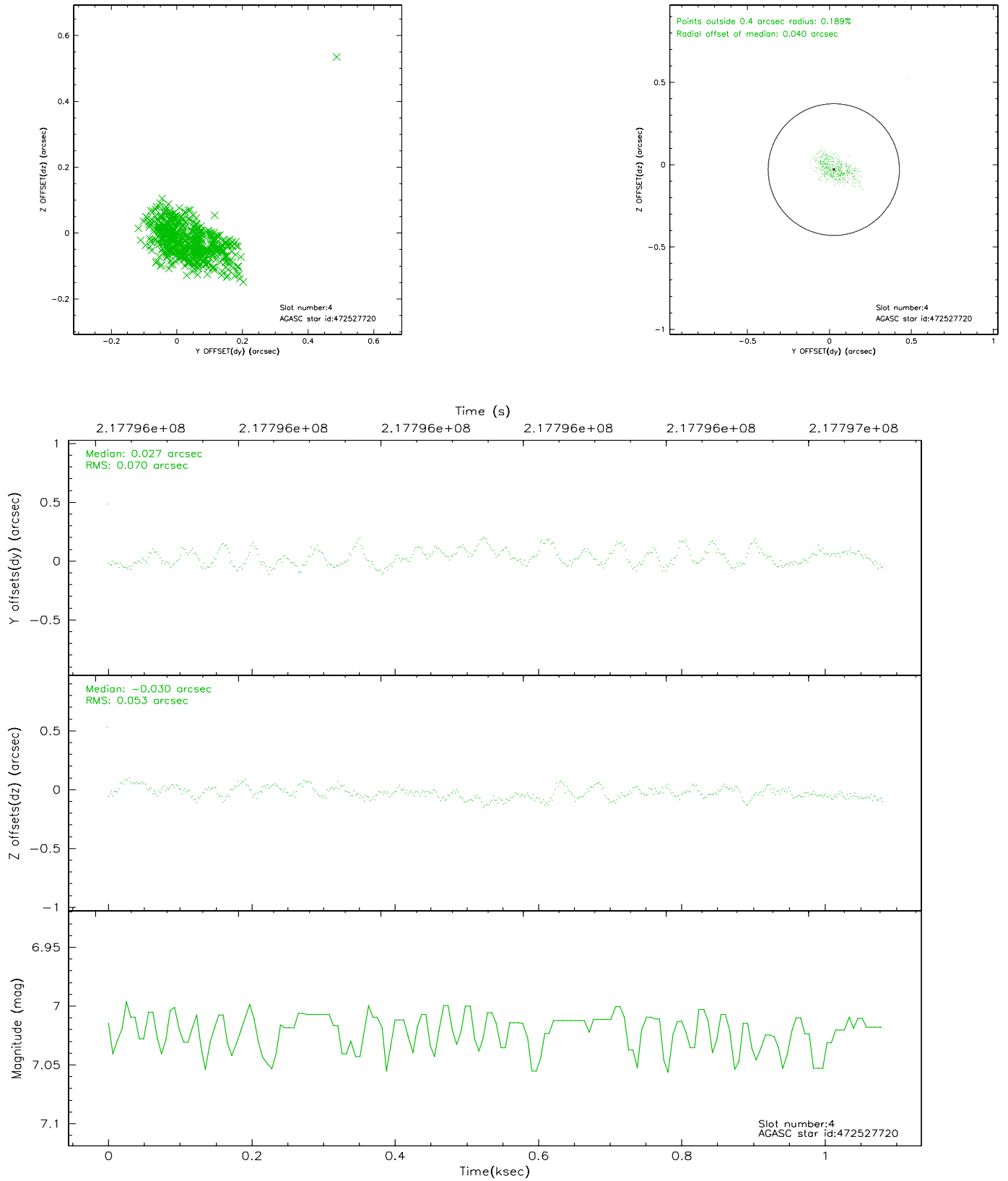


## 2.4 Star Slots

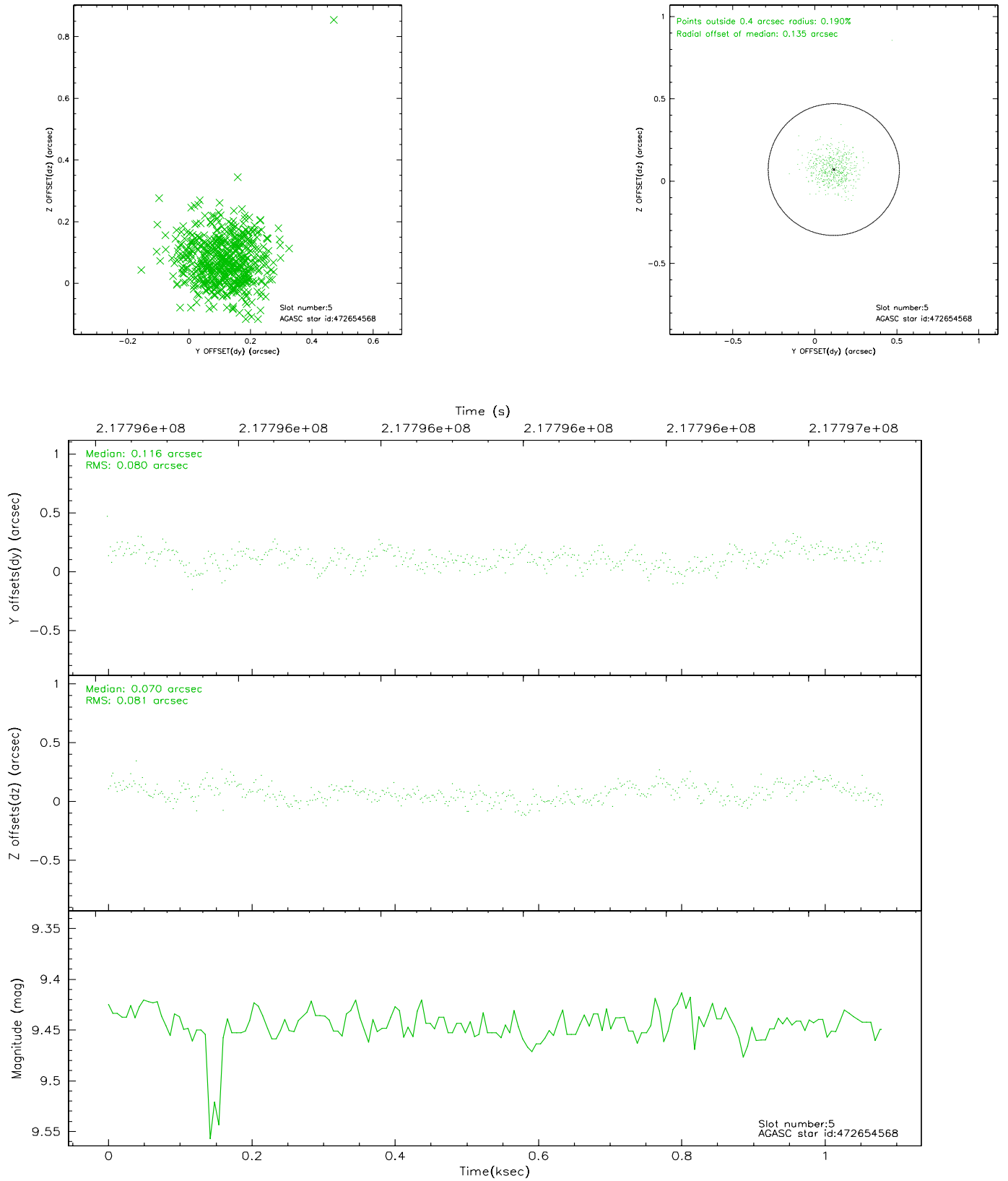
### 2.4.1 Slot 3



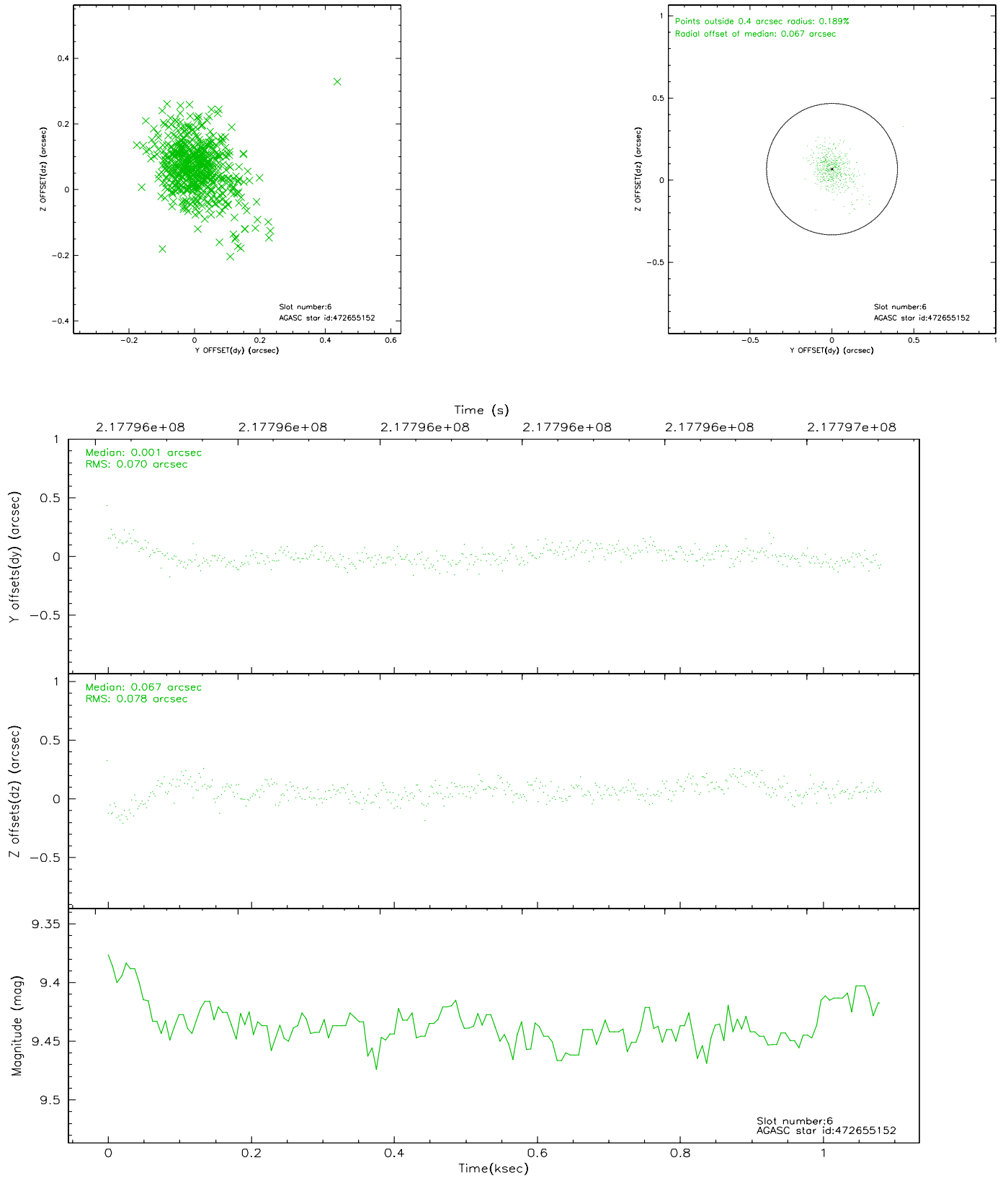
## 2.4.2 Slot 4



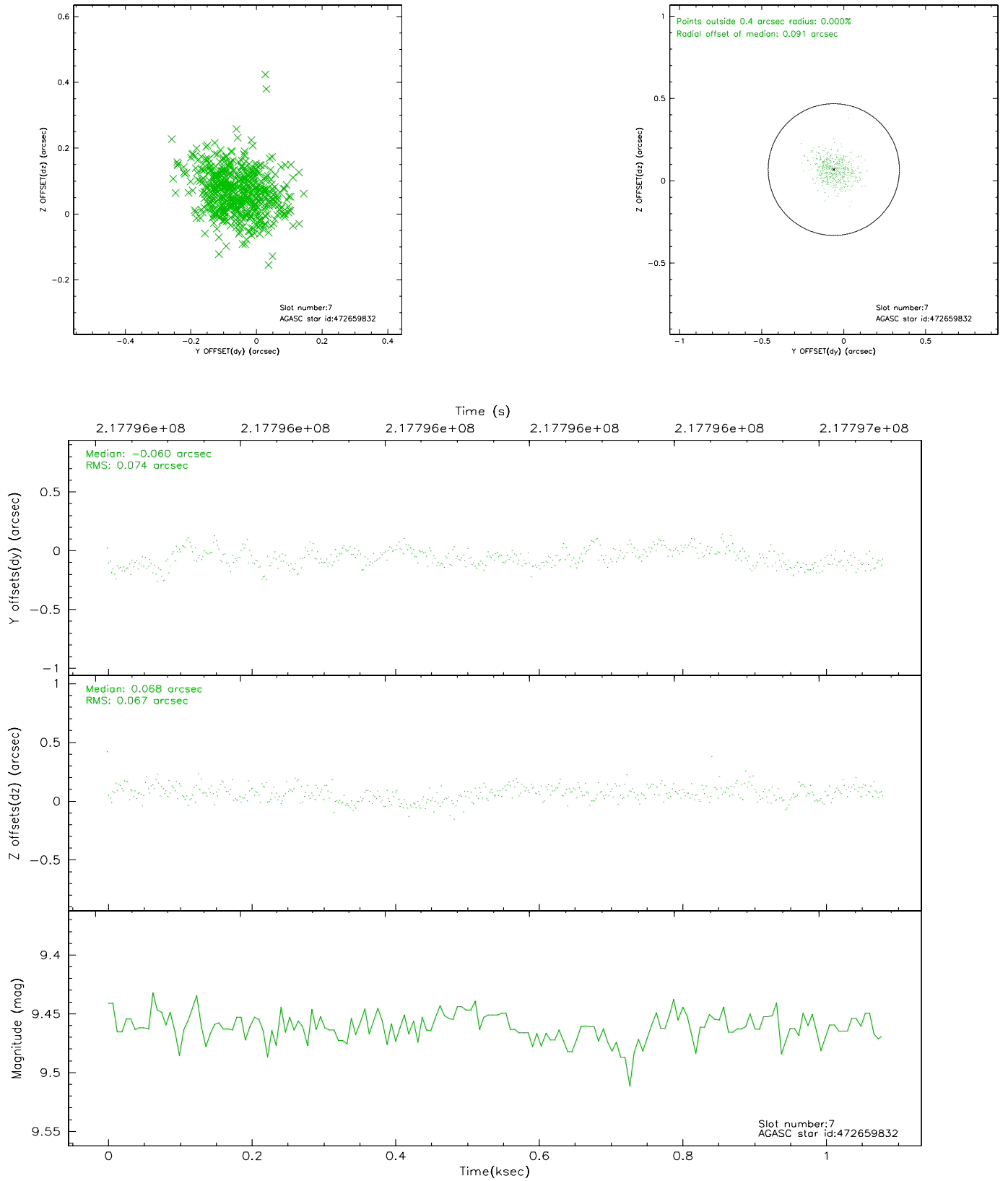
### 2.4.3 Slot 5



## 2.4.4 Slot 6

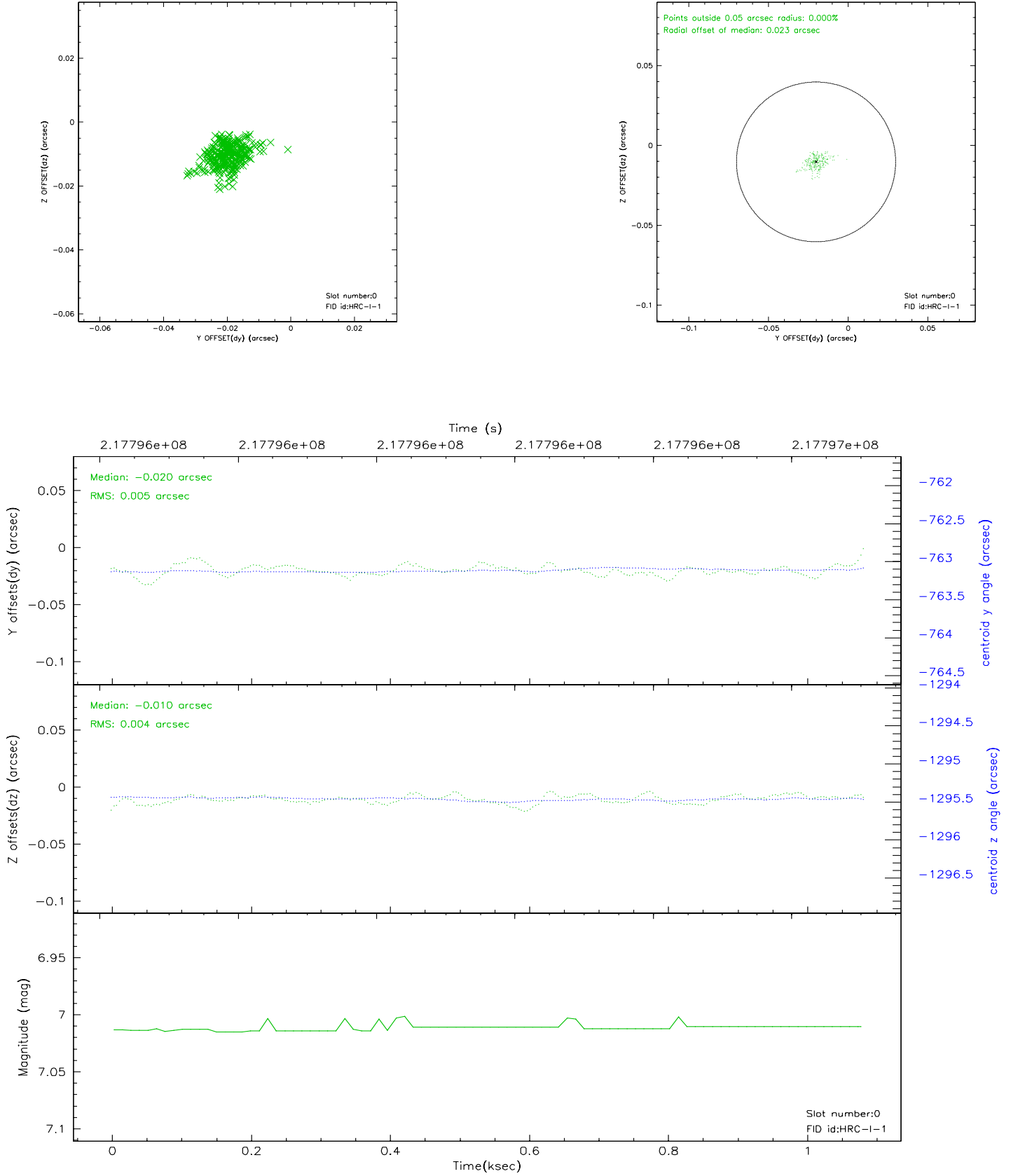


## 2.4.5 Slot 7

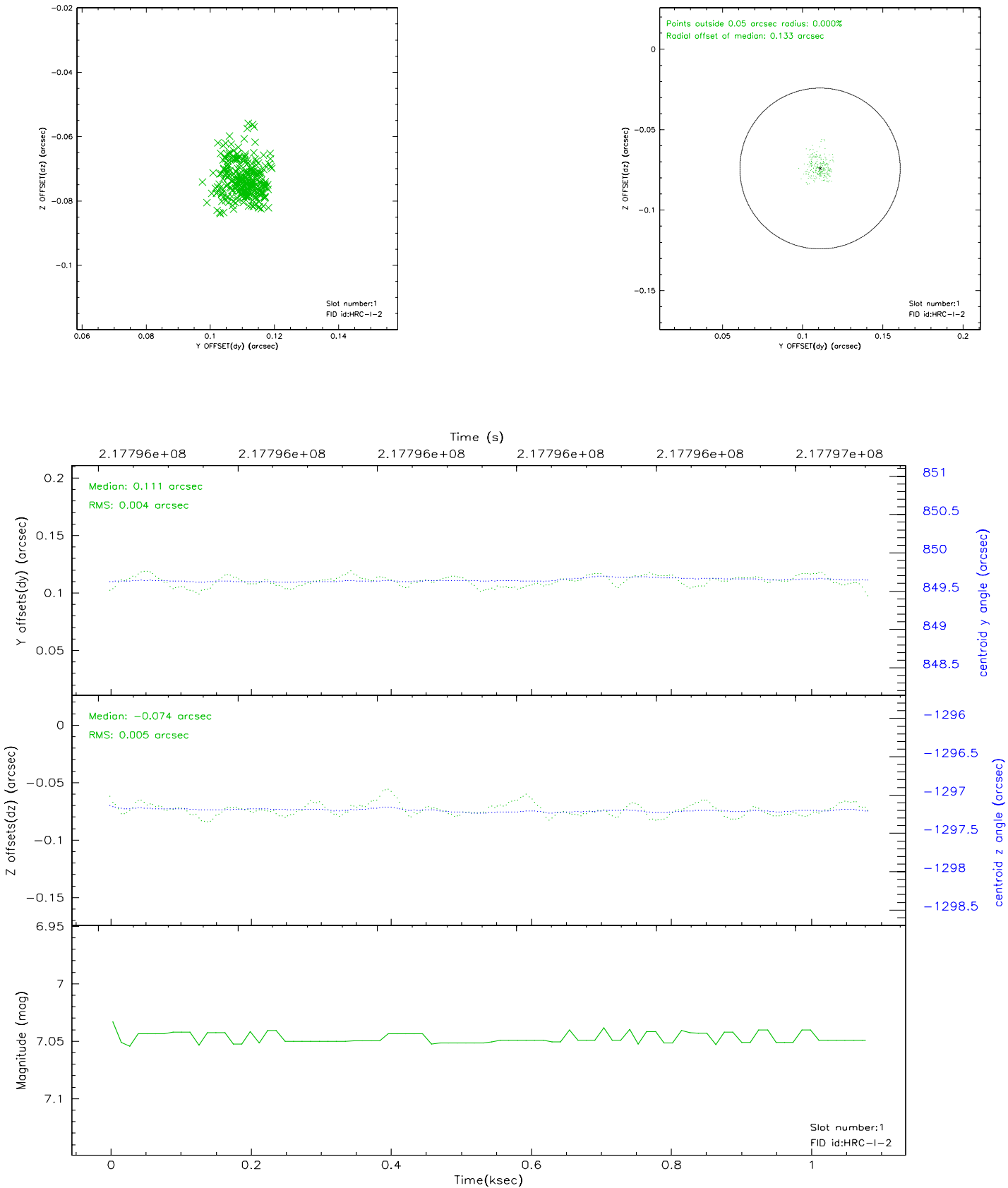


## 2.5 FID Slots

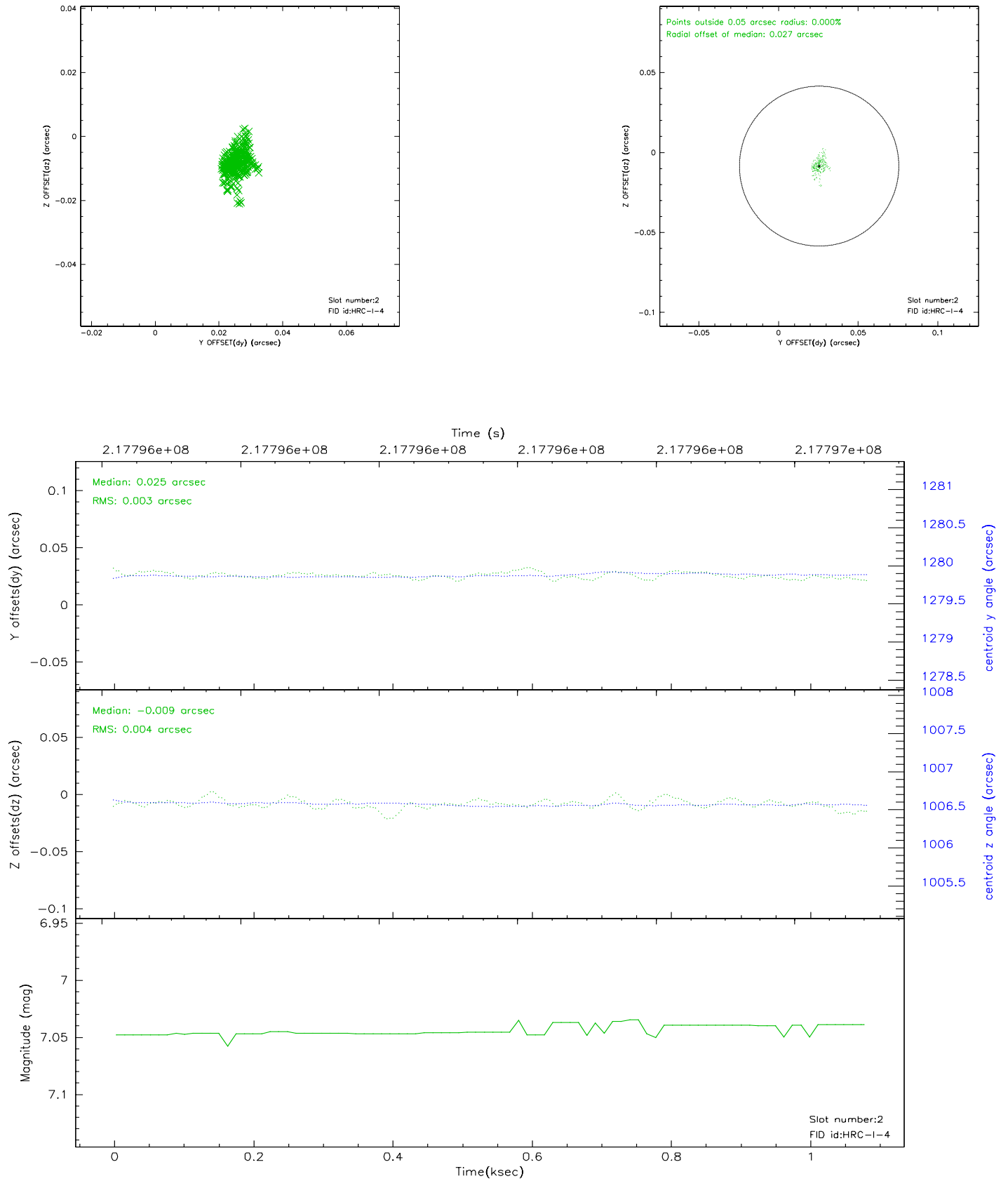
### 2.5.1 Slot 0



2.5.2 Slot 1

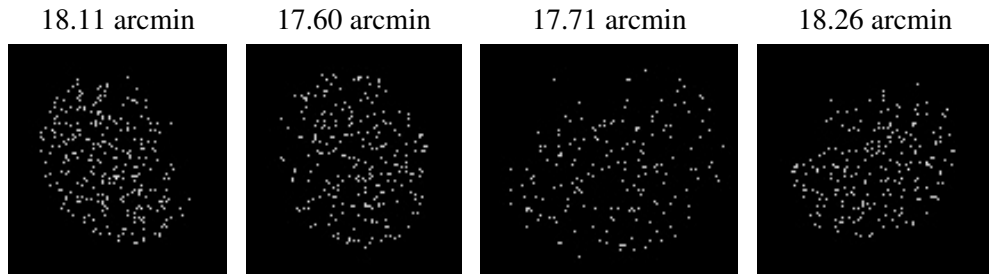


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.12.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.081631

## A.2 Comments

The current observation has been reprocessed as part of Repro III ('C' supplement) the purpose of which is to update all HRC-I ObsIDs since Jan 2000 to the latest calibrations available for that configuration. Specifically, we are updating the DEGAP solution and the Gain Maps applied. For more information see the Repro IIIC web page at:

<http://asc.harvard.edu/cda/repro3.html#IIIC>

and the associated links.