

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 2358 - L2 Version 4  
Chandra X-Ray Center

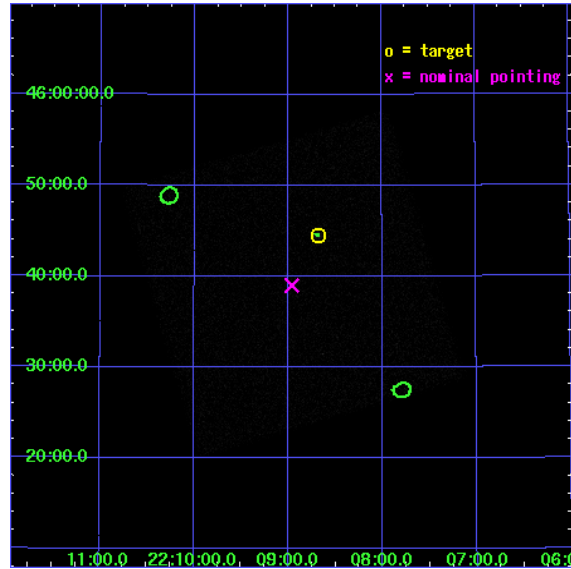
L2 Processing Date : Nov 21 2007

## 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

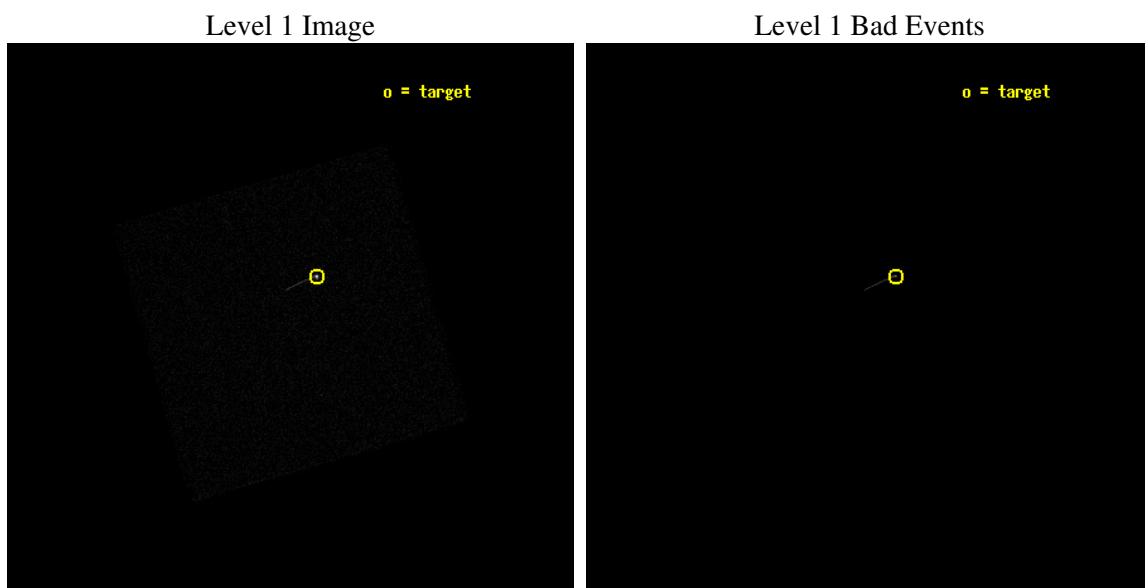
seq_num	290105
obs_id	2358
title	HRC-I CALIBRATION OBSERVATIONS OF ARLAC
observer	Dr. CXC Calibration
object	ARLAC,HRC-I,AO2A
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.239961651
dec_nom	45.650296868116
roll_nom	298.72779985854
revision	4
ontime	1200.5312958956
livetime	1194.5929435592
l2events	34908



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-21T05:29:06
revision	4

sched_exp_time	1000.000000
ontime	1200.5312958956
l1events	60950

### 2.1.3 Events

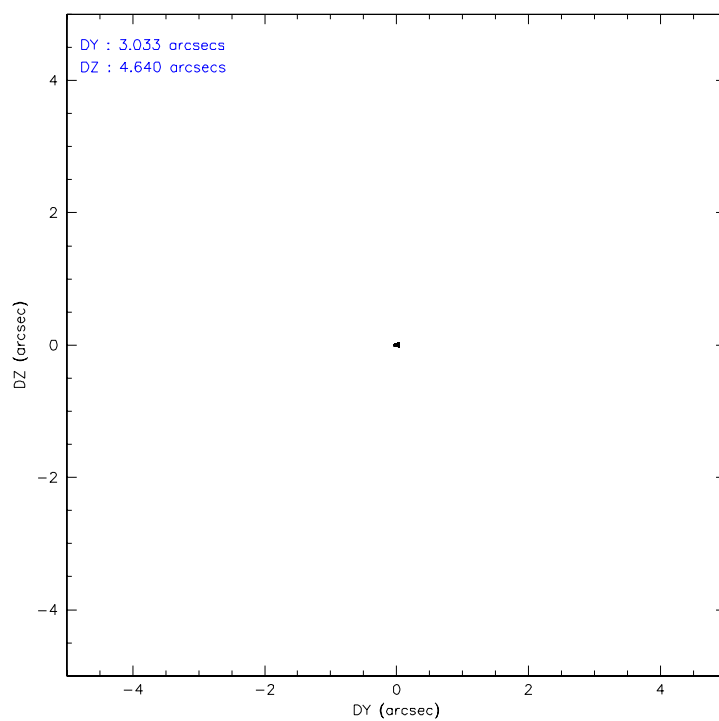
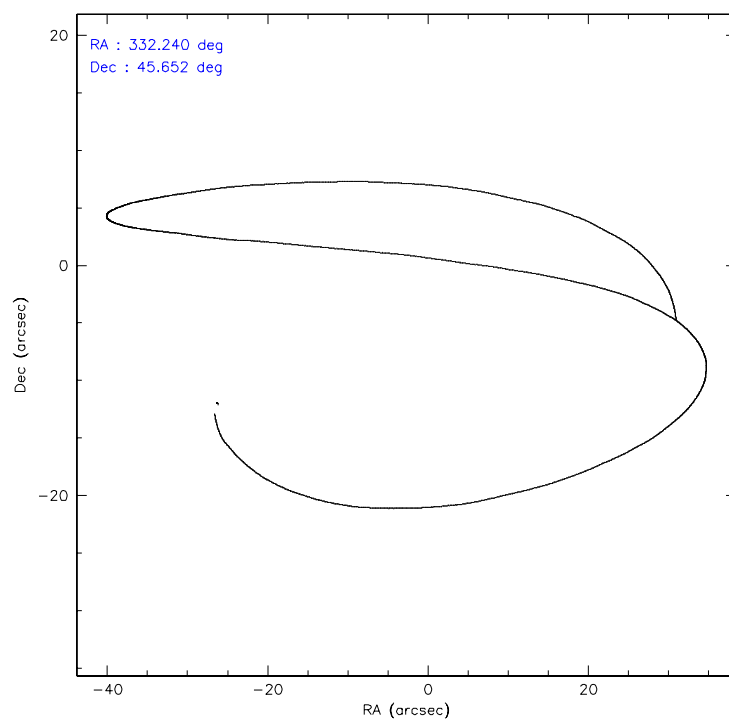
#### Level 1 Events

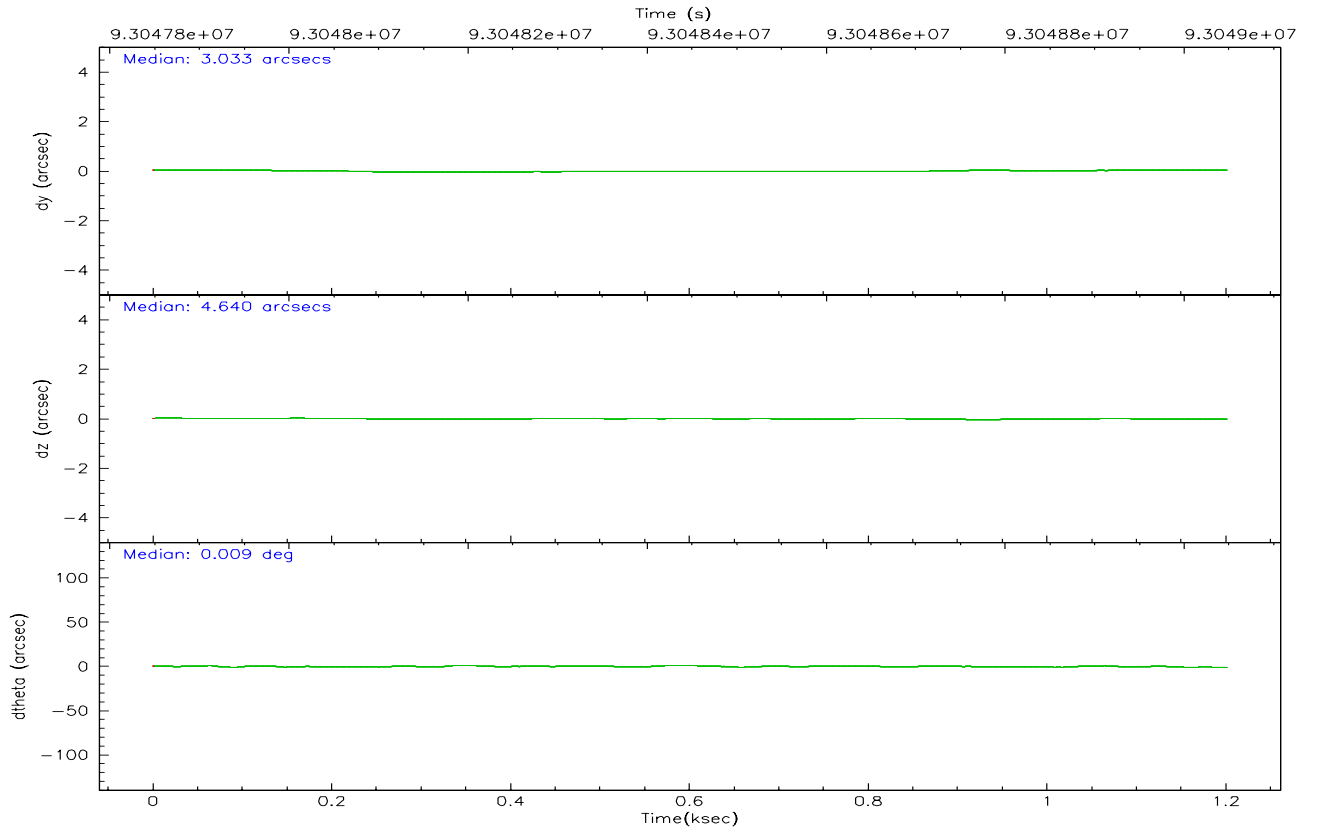
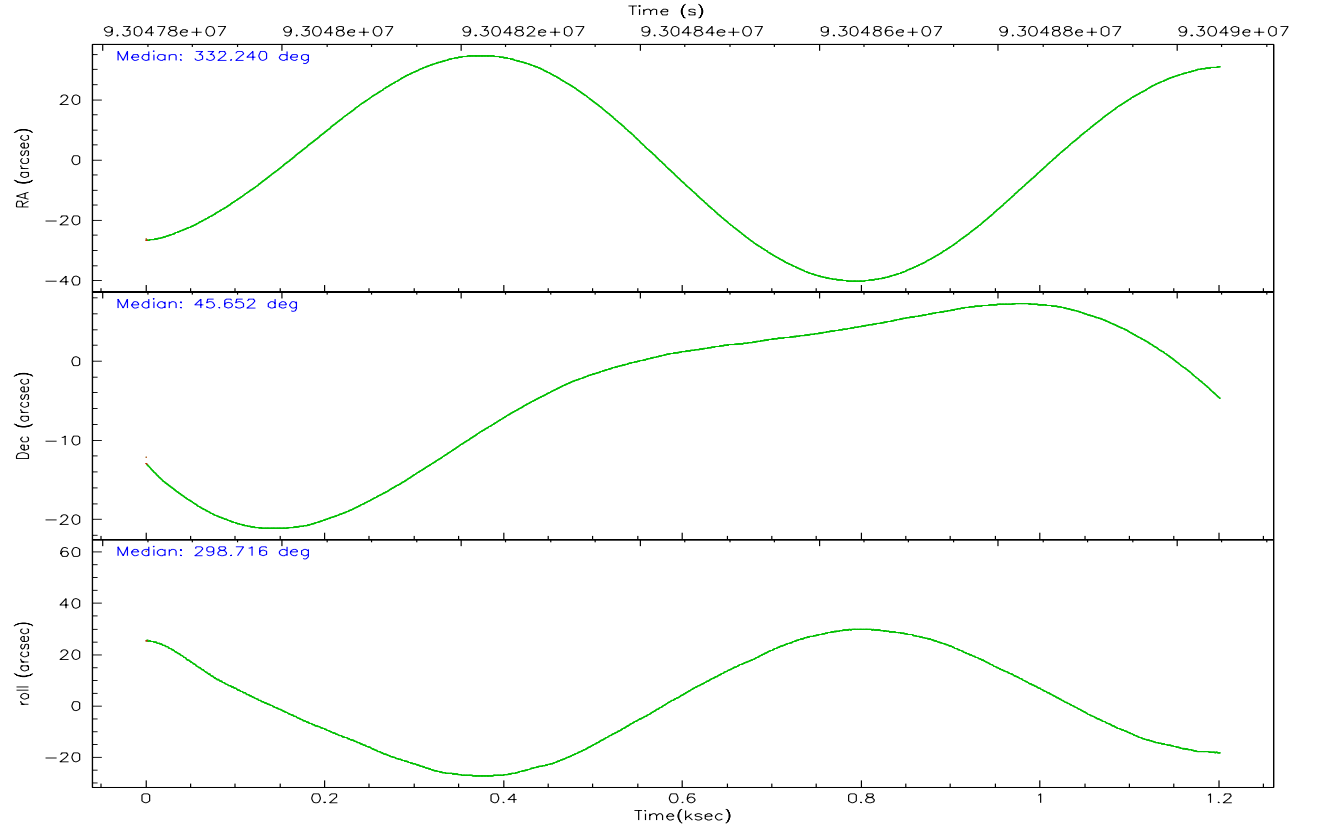
	<b>segment 0</b>
level 1 events	60950
rejected events	12295
rejected %	20%

## 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	332.206103	332.2399616509995			
Pointing Dec	45.664101	45.65029686811619			
Pointing Roll	298.847486	298.7277998585396			
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	93048051.184000	93047674.613262			
Observation start date	2000-12-12T22:39:47	2000-12-12T22:34:34			
Observation end time	93049051.184000	93049184.43832			
Observation end date	2000-12-12T22:56:27	2000-12-12T22:59:44			

## 2.3 Aspect





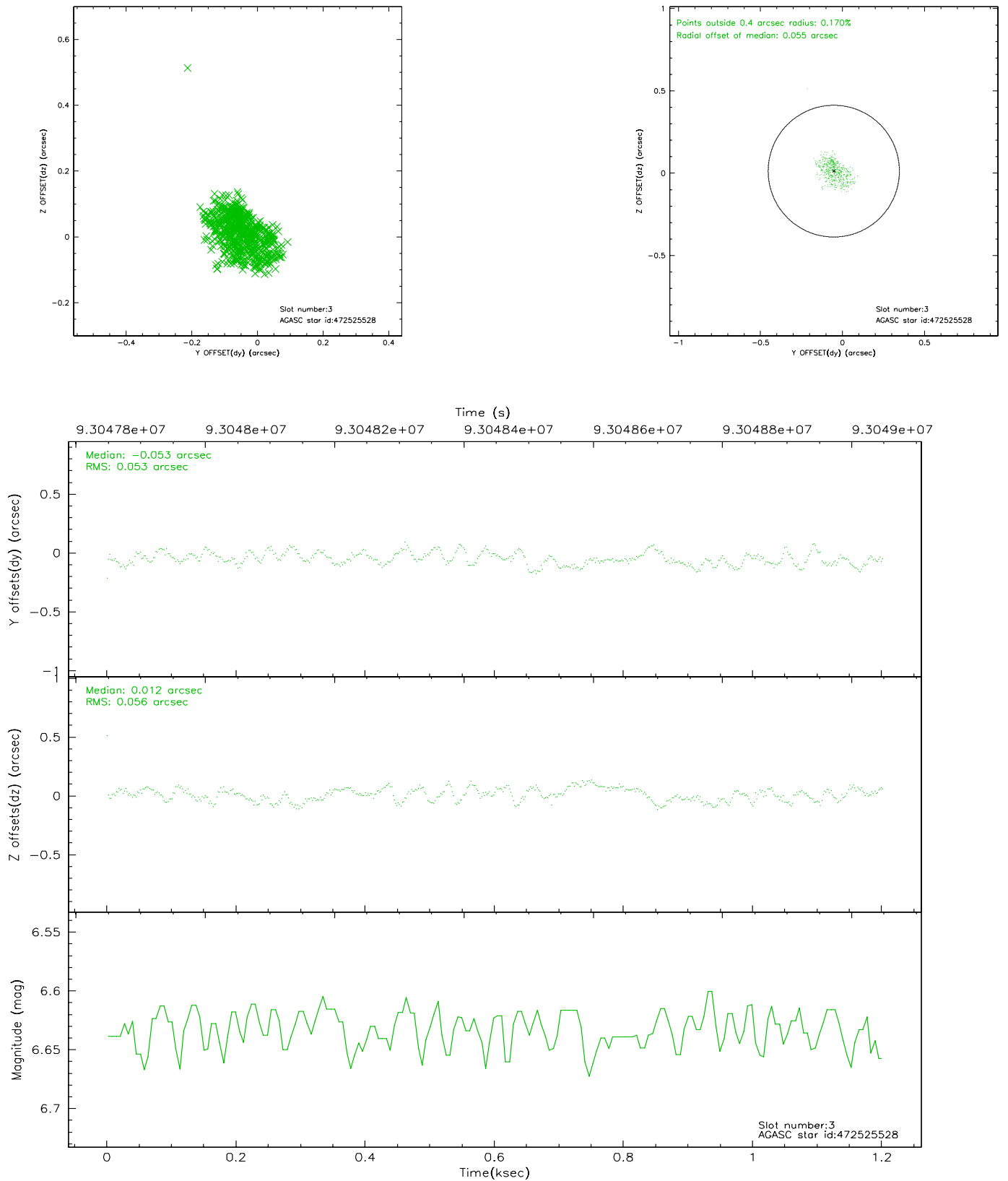
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.96	294	0.048	0.067	0.006	0.010	0.000000	0.000000	-758.48	-1292.40
1	FID	HRC-I-3	7.05	294	0.033	-0.099	0.008	0.011	0.000000	0.000000	-1189.54	1007.61
2	FID	HRC-I-4	6.99	294	0.033	-0.057	0.004	0.007	0.000000	0.000000	1280.27	1013.06
3	GUIDE	472525528	6.63	587	-0.053	0.012	0.082	0.124	331.551102	45.248694	502.96	-2173.33
4	GUIDE	472523760	8.23	587	-0.038	-0.123	0.062	0.101	331.645363	45.403260	135.06	-1697.00
5	GUIDE	472665256	9.02	587	-0.120	-0.094	0.081	0.129	332.808125	46.195041	-956.13	2234.74
6	GUIDE	472659832	9.46	586	0.015	0.037	0.107	0.165	332.780399	46.098139	-683.89	2014.76
7	GUIDE	472646552	9.62	586	0.179	0.147	0.131	0.302	333.120915	45.571877	1389.82	1868.28

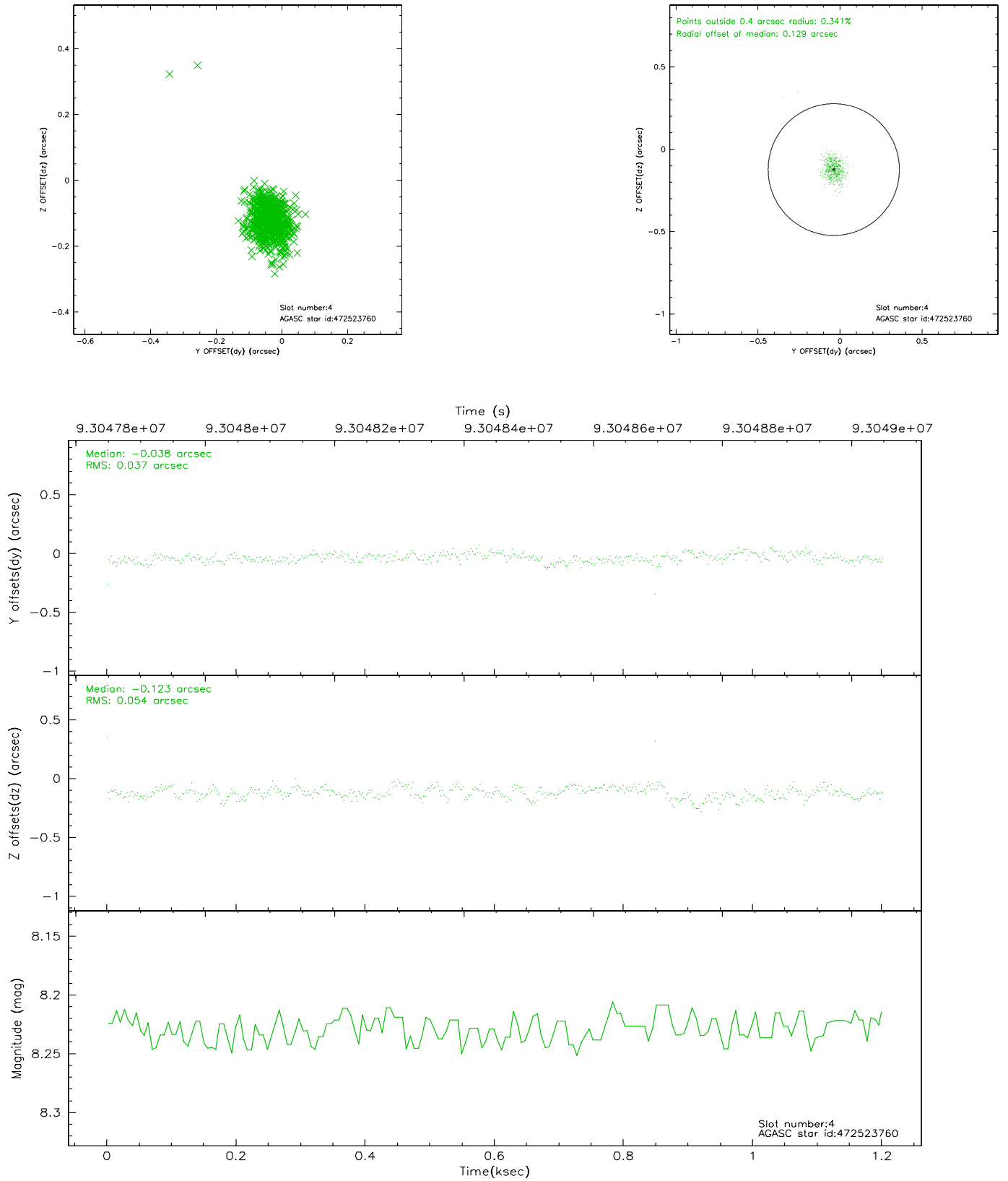


## 2.4 Star Slots

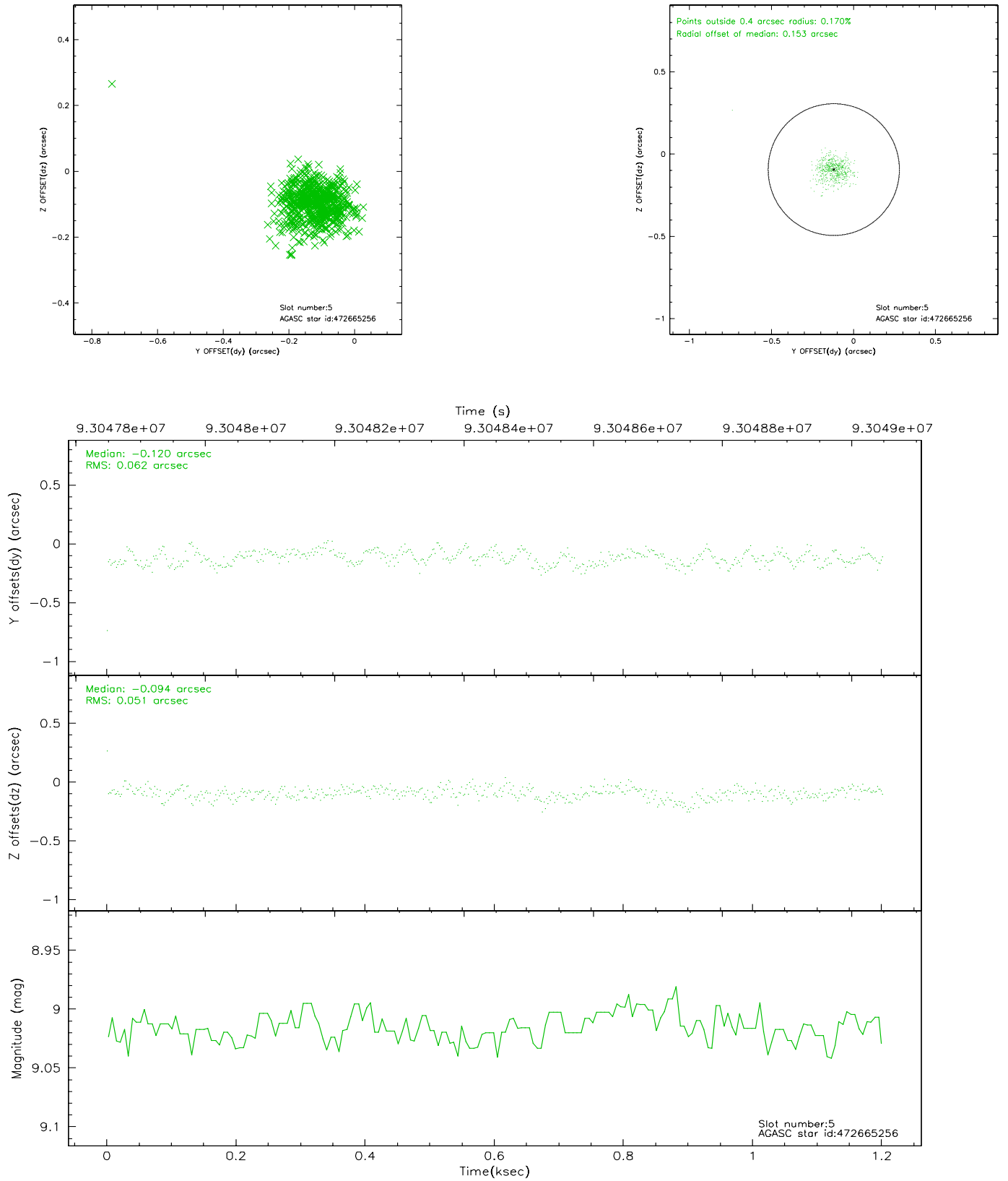
### 2.4.1 Slot 3



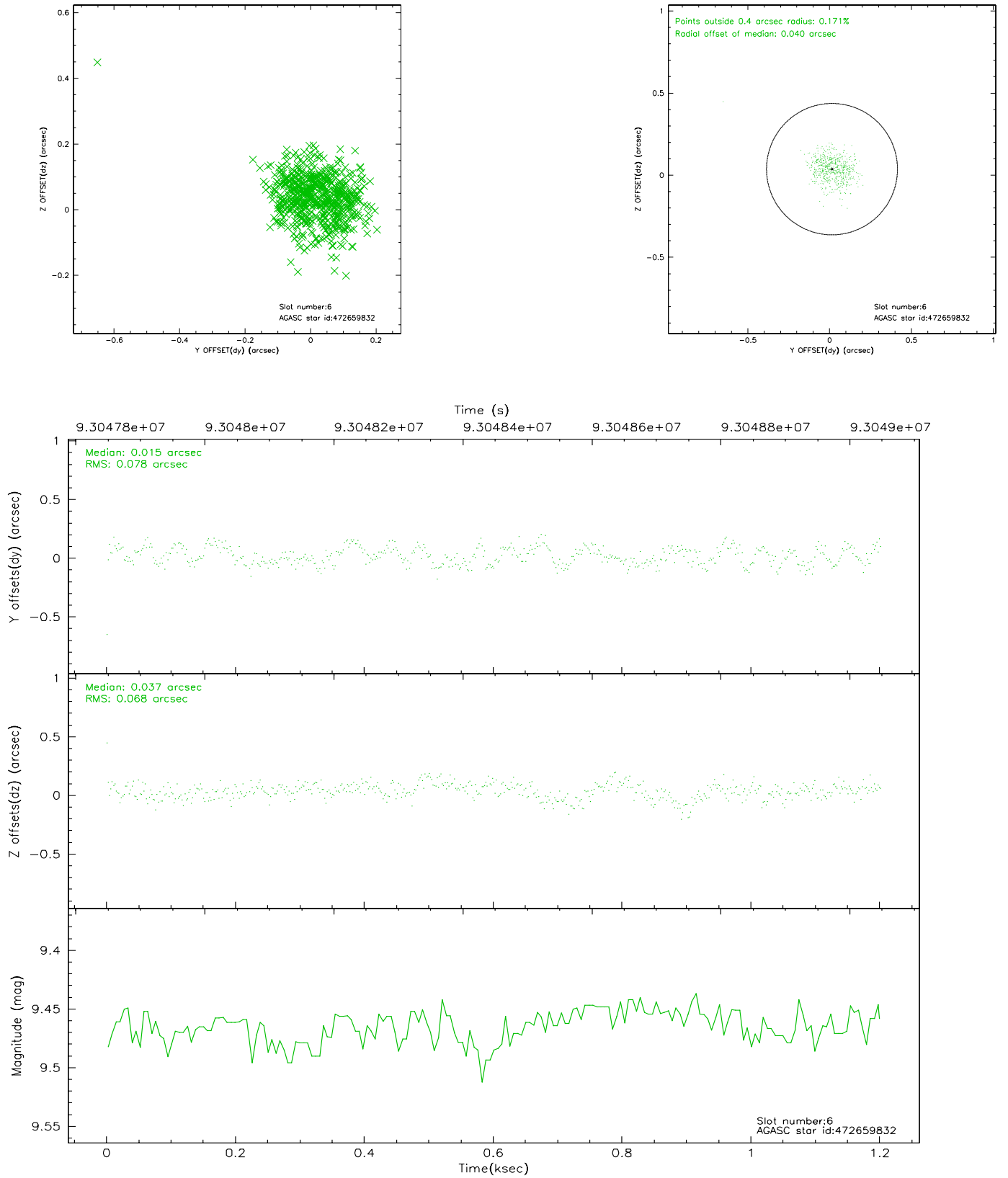
## 2.4.2 Slot 4



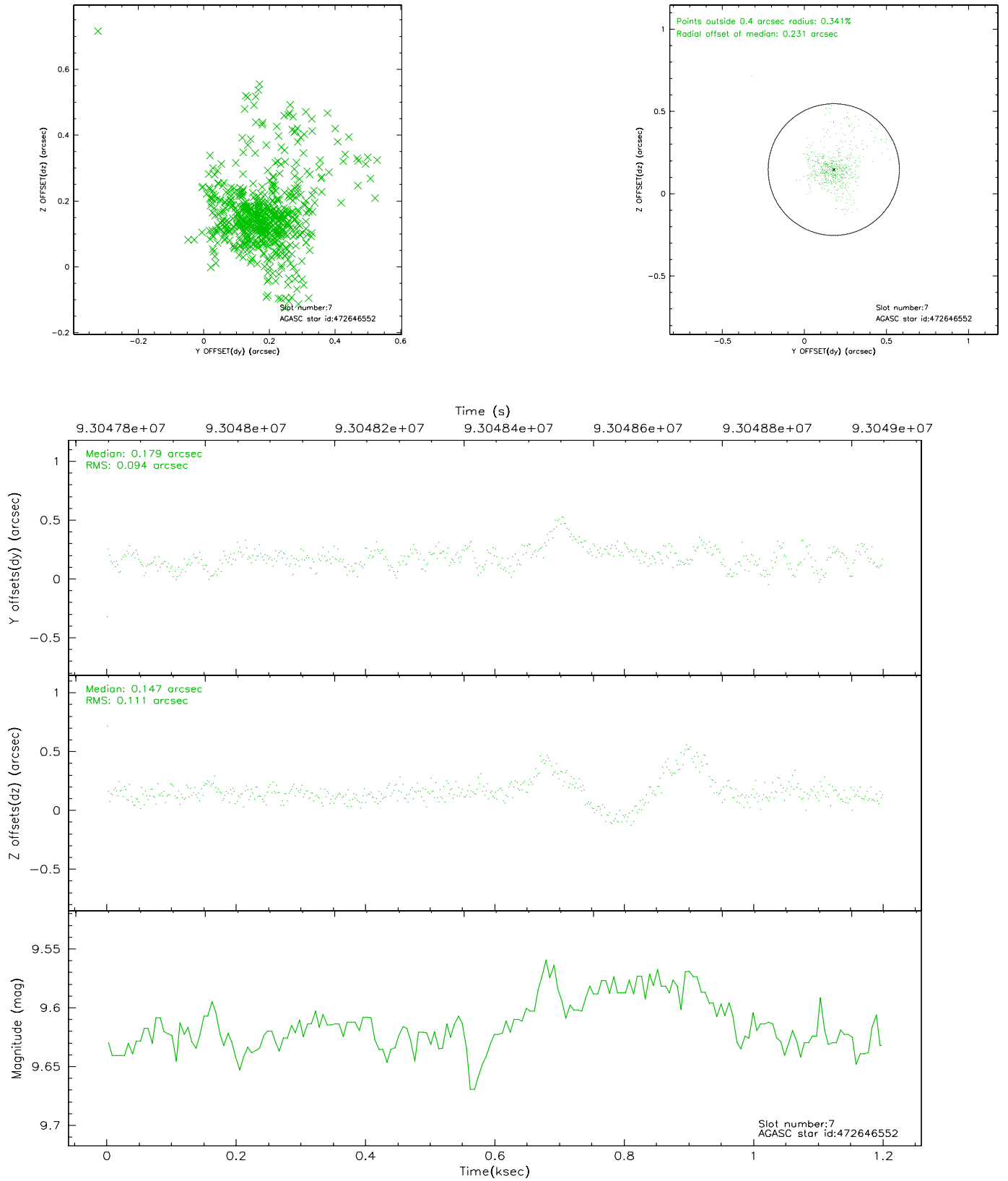
### 2.4.3 Slot 5



## 2.4.4 Slot 6

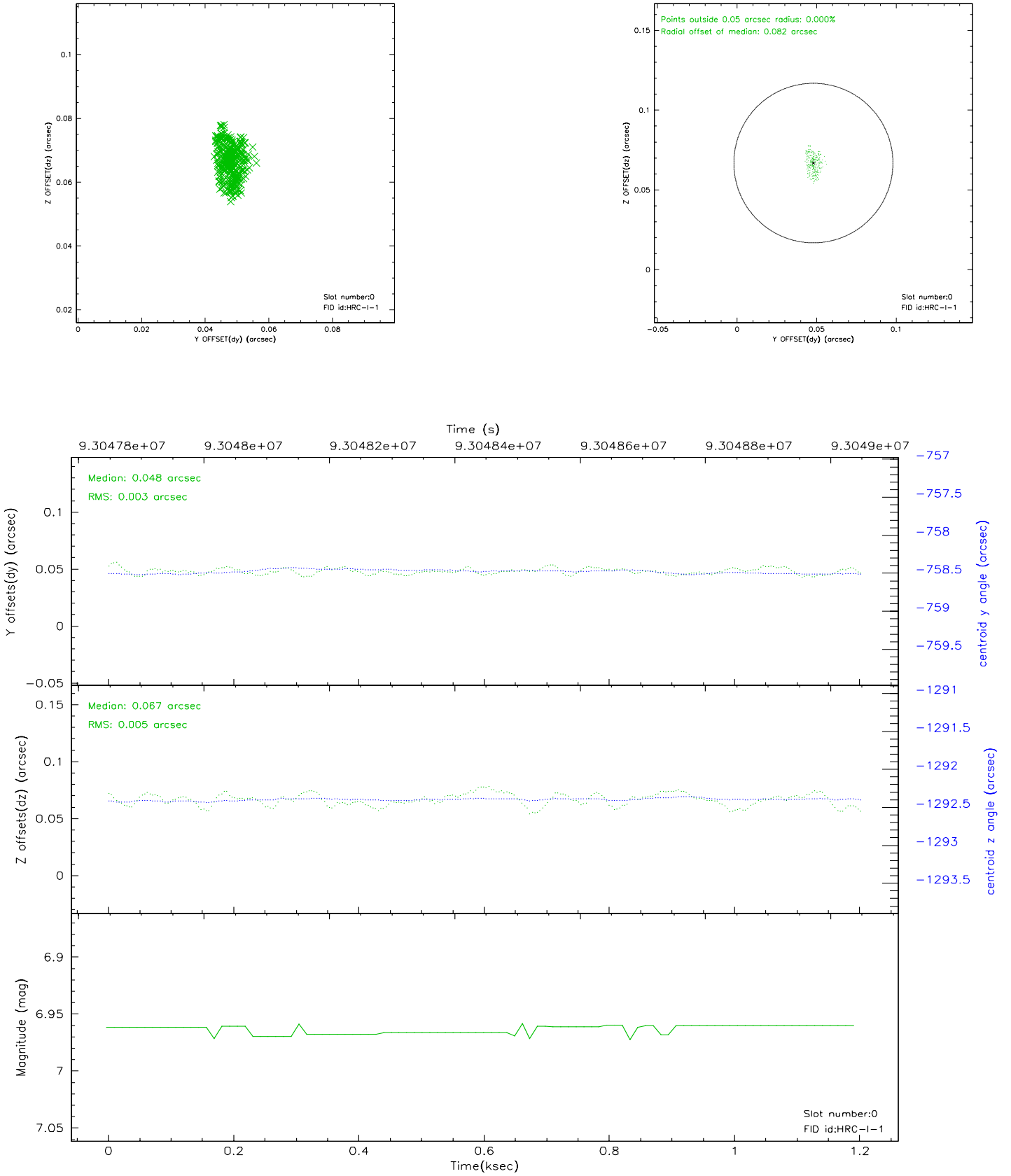


## 2.4.5 Slot 7

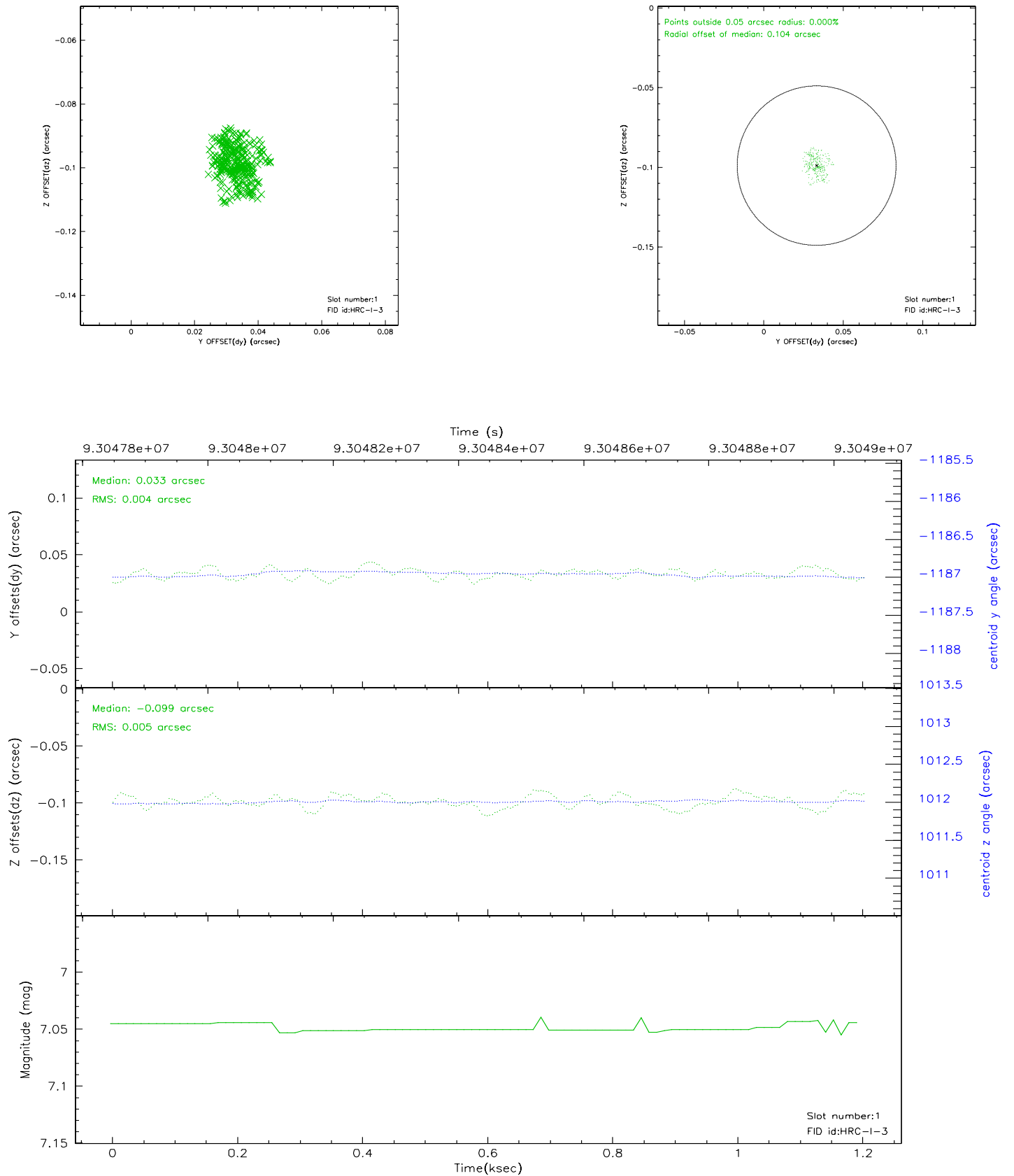


## 2.5 FID Slots

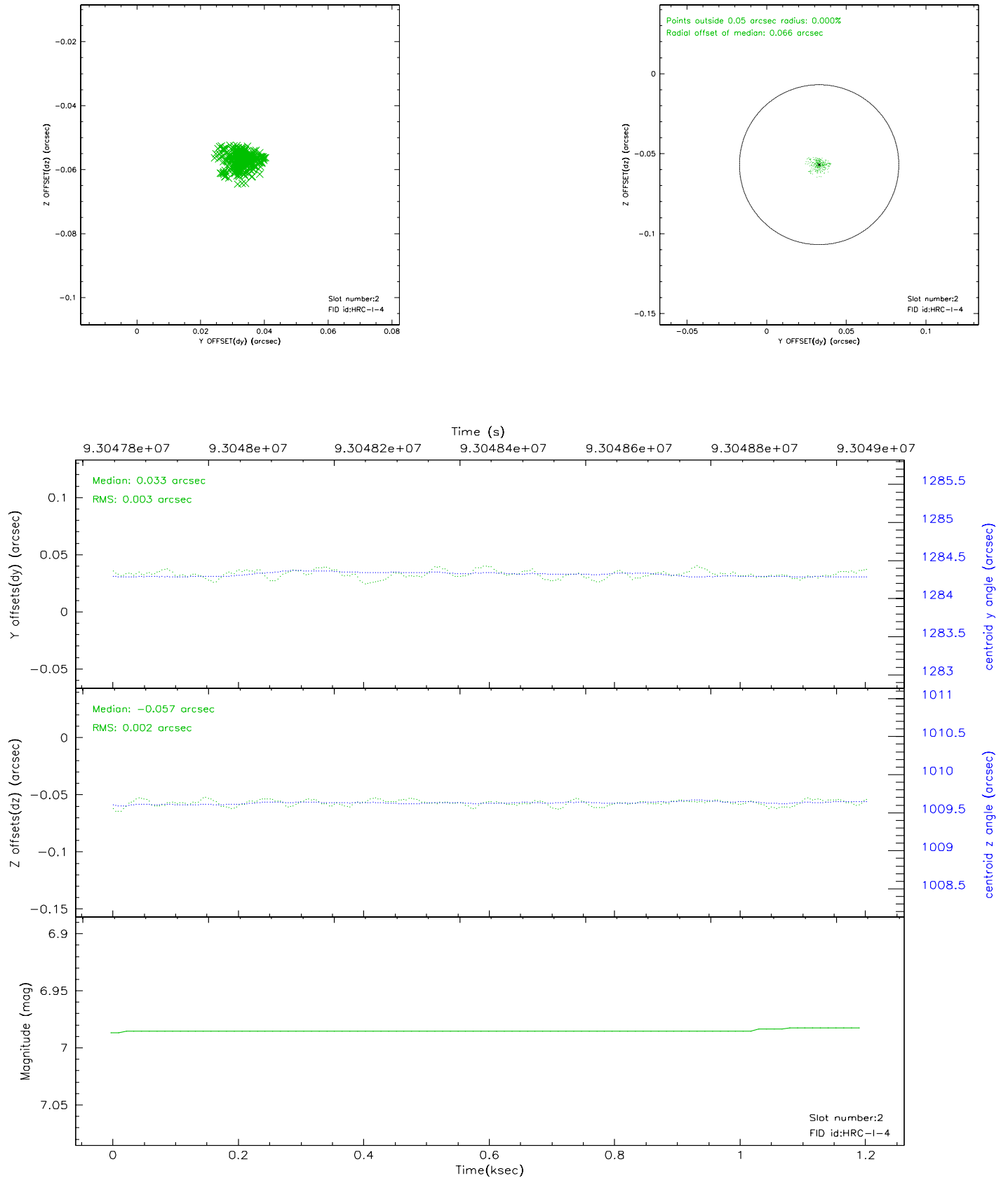
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





### 3 Point Sources

16.90 arcmin



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.2

## 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.