

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4290 - L2 Version 3  
Chandra X-Ray Center

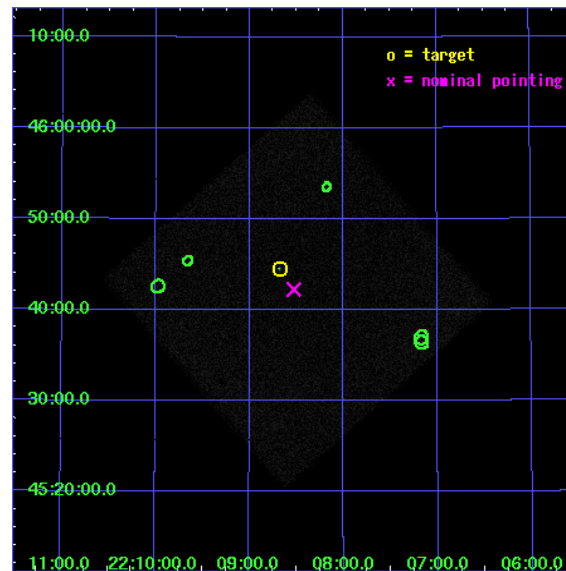
L2 Processing Date : Nov 21 2007

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# 1 Front

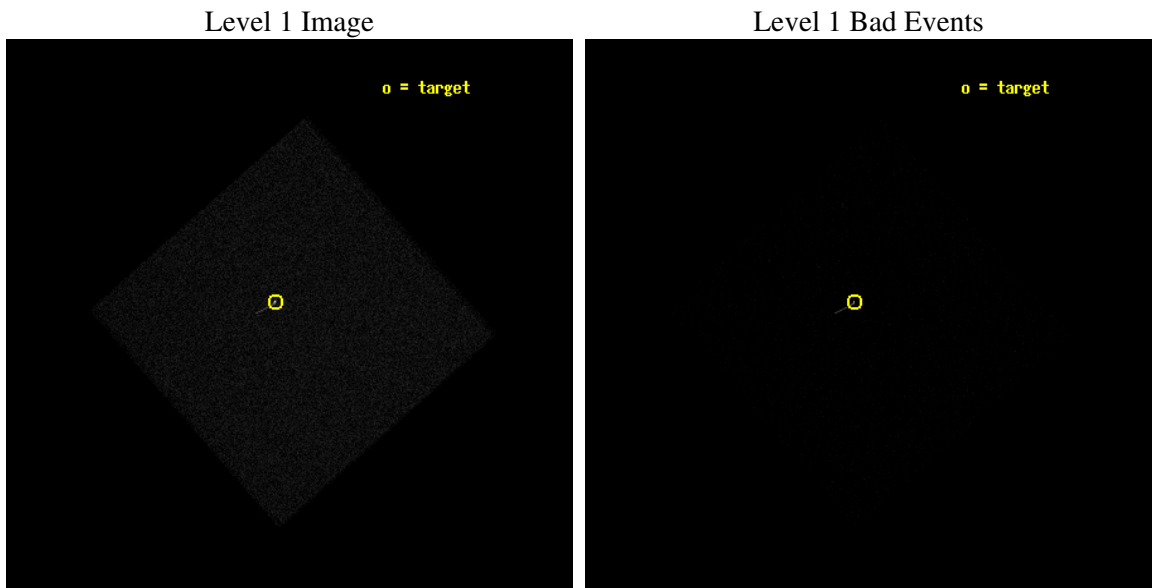
seq_num	290250
obs_id	4290
title	AO4 CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-I GAIN
observer	Dr. CXC Calibration
object	ARLAC
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.13155725783
dec_nom	45.704523712235
roll_nom	3.6245034198362
revision	3
ontime	894.05628761649
livetime	876.16598334105
l2events	79982



## 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	2007-11-22T01:28:42
revision	3

sched_exp_time	1000.000000
ontime	894.05628761649
l1events	149058

### 2.1.3 Events

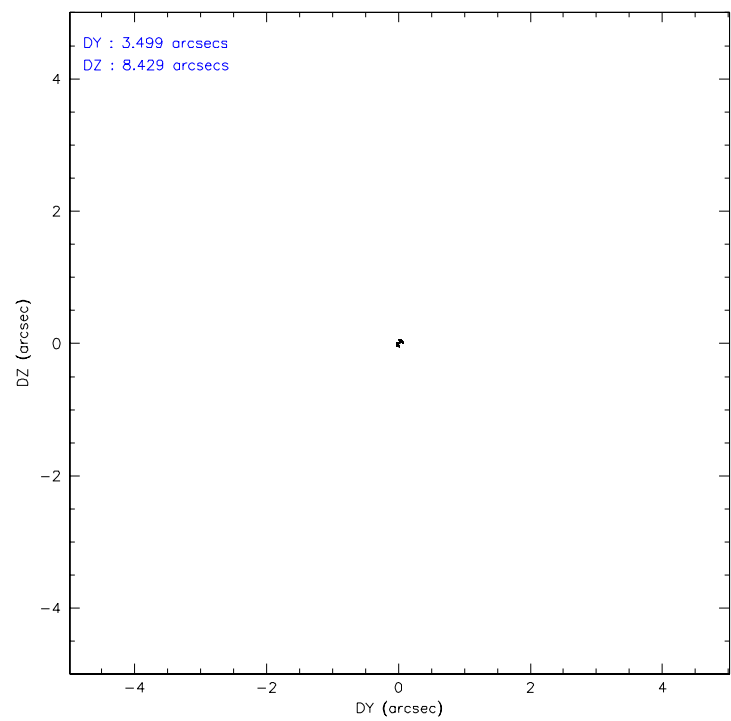
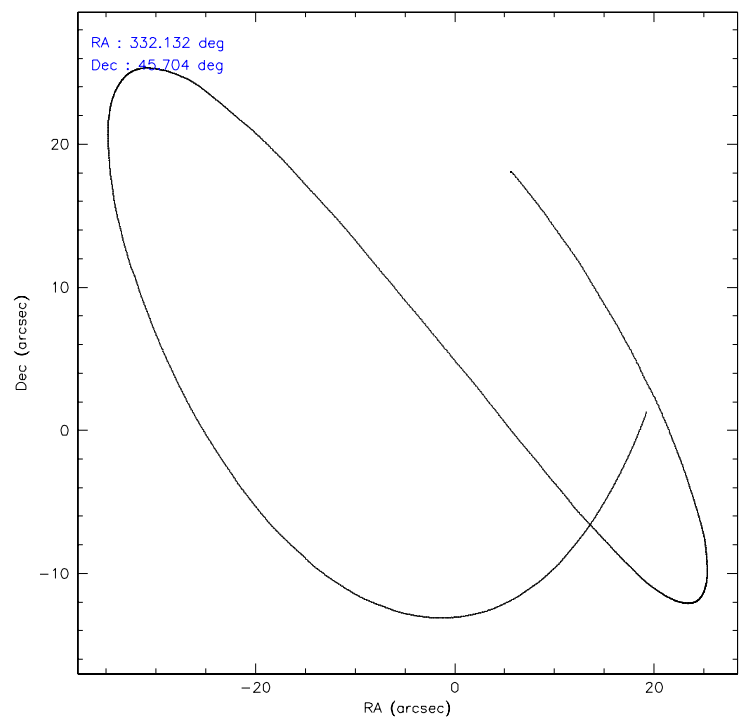
#### Level 1 Events

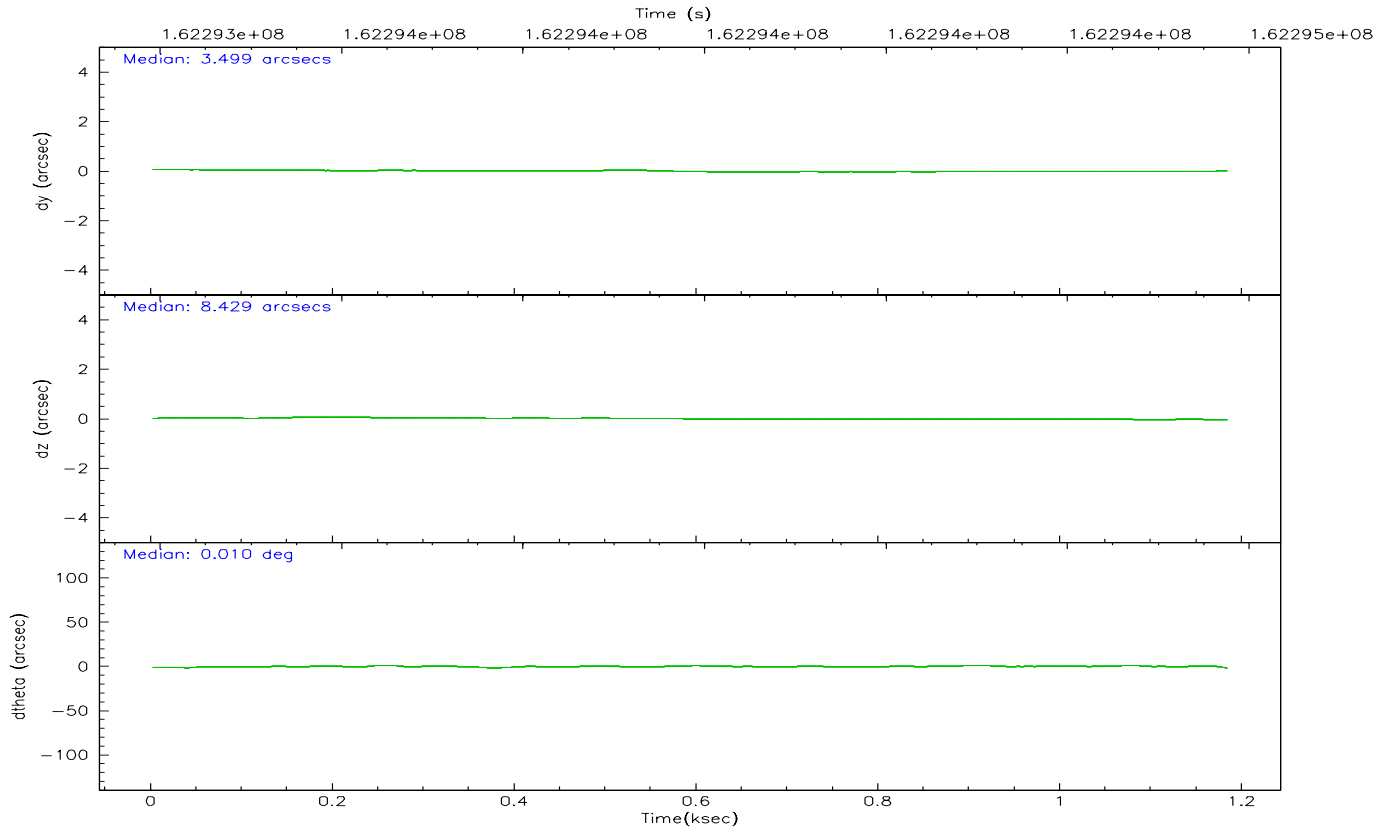
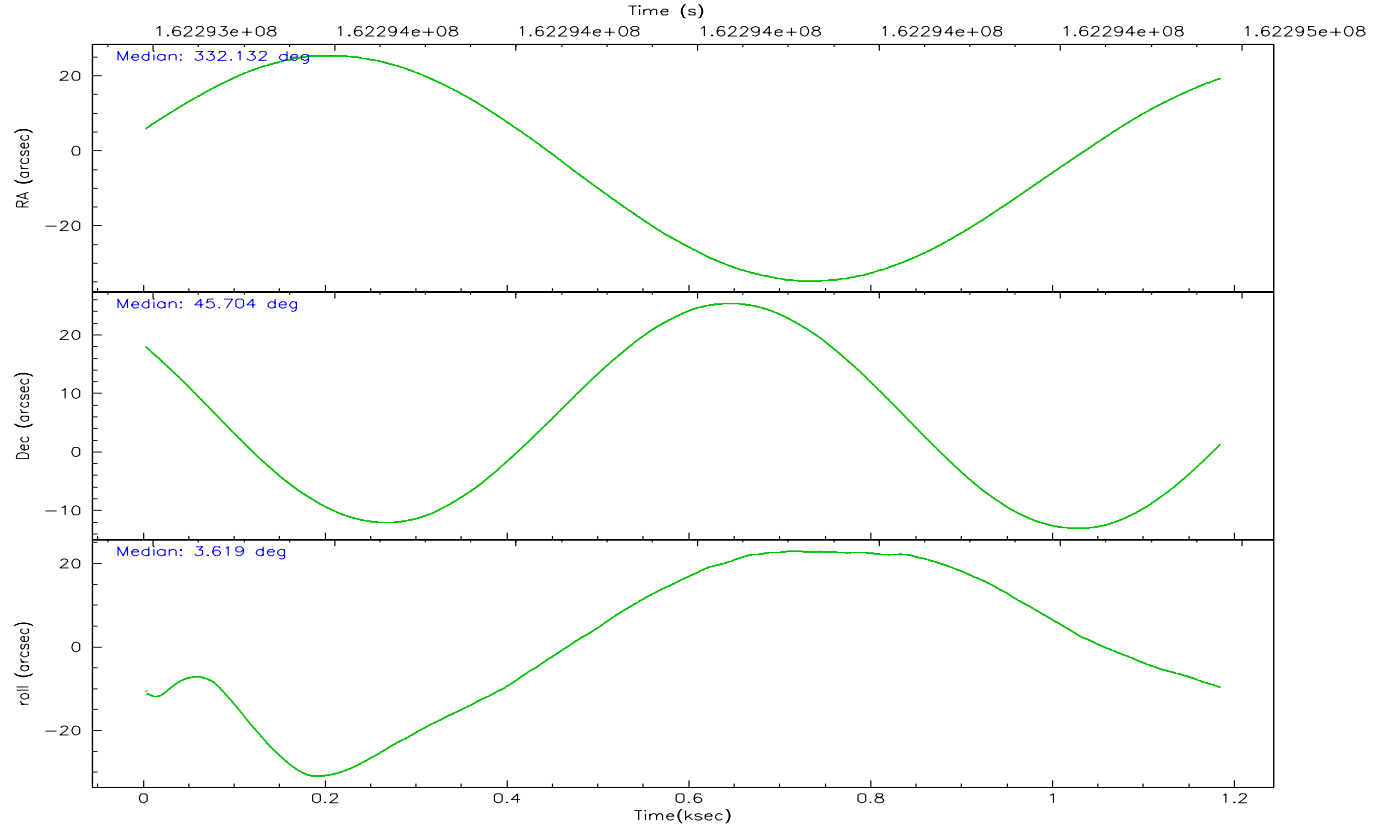
	<b>segment 0</b>
level 1 events	149058
rejected events	36875
rejected %	24%

## 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	332.099286	332.1315572578328			
Pointing Dec	45.689997	45.70452371223511			
Pointing Roll	3.743176	3.624503419836199			
Window start time	161654464.184000	161654464.184000			
Window stop time	165369664.184000	165369664.184000			
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	162293578.184000	162293165.74454			
Observation start date	2003-02-22T09:31:54	2003-02-22T09:26:05			
Observation end time	162294578.184000	162294711.4446			
Observation end date	2003-02-22T09:48:34	2003-02-22T09:51:51			

## 2.3 Aspect





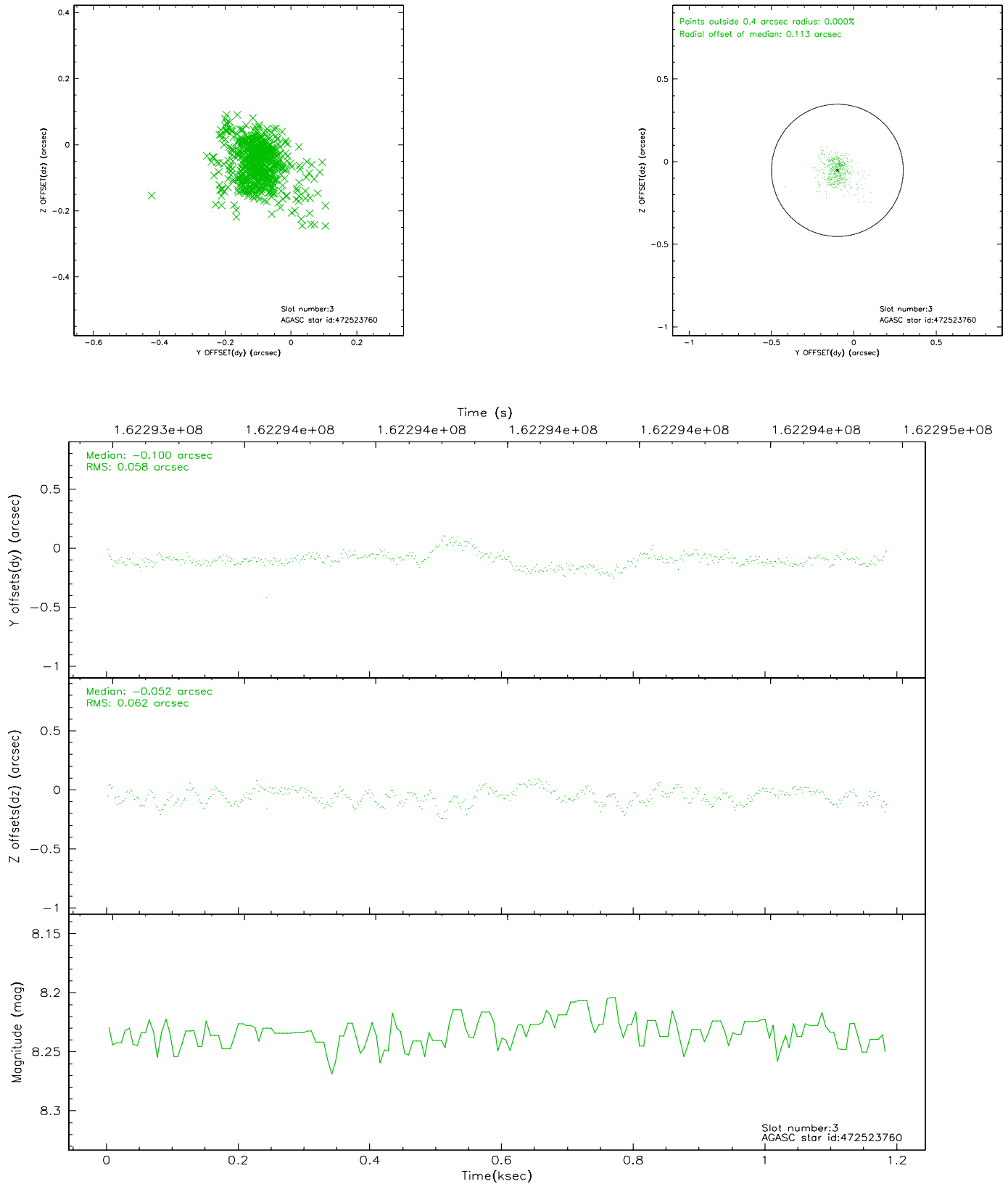
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.97	289	0.072	0.055	0.005	0.010	0.000000	0.000000	-758.95	-1296.30
1	FID	HRC-I-3	7.06	289	-0.012	-0.066	0.007	0.011	0.000000	0.000000	-1190.09	1003.67
2	FID	HRC-I-4	7.01	289	0.054	-0.078	0.005	0.009	0.000000	0.000000	1279.76	1009.16
3	GUIDE	472523760	8.23	578	-0.100	-0.052	0.082	0.159	331.645363	45.403260	-1212.84	-948.29
4	GUIDE	472654568	9.44	578	-0.050	0.020	0.109	0.171	332.194449	45.063576	91.61	-2263.74
5	GUIDE	472655152	9.44	578	0.160	0.033	0.090	0.148	332.504239	45.862991	1053.41	557.76
6	GUIDE	472659832	9.46	578	0.028	0.086	0.094	0.147	332.780399	46.098139	1794.05	1367.51
7	GUIDE	472527720	6.99	577	-0.033	-0.073	0.060	0.102	331.460205	45.112509	-1752.96	-1956.19

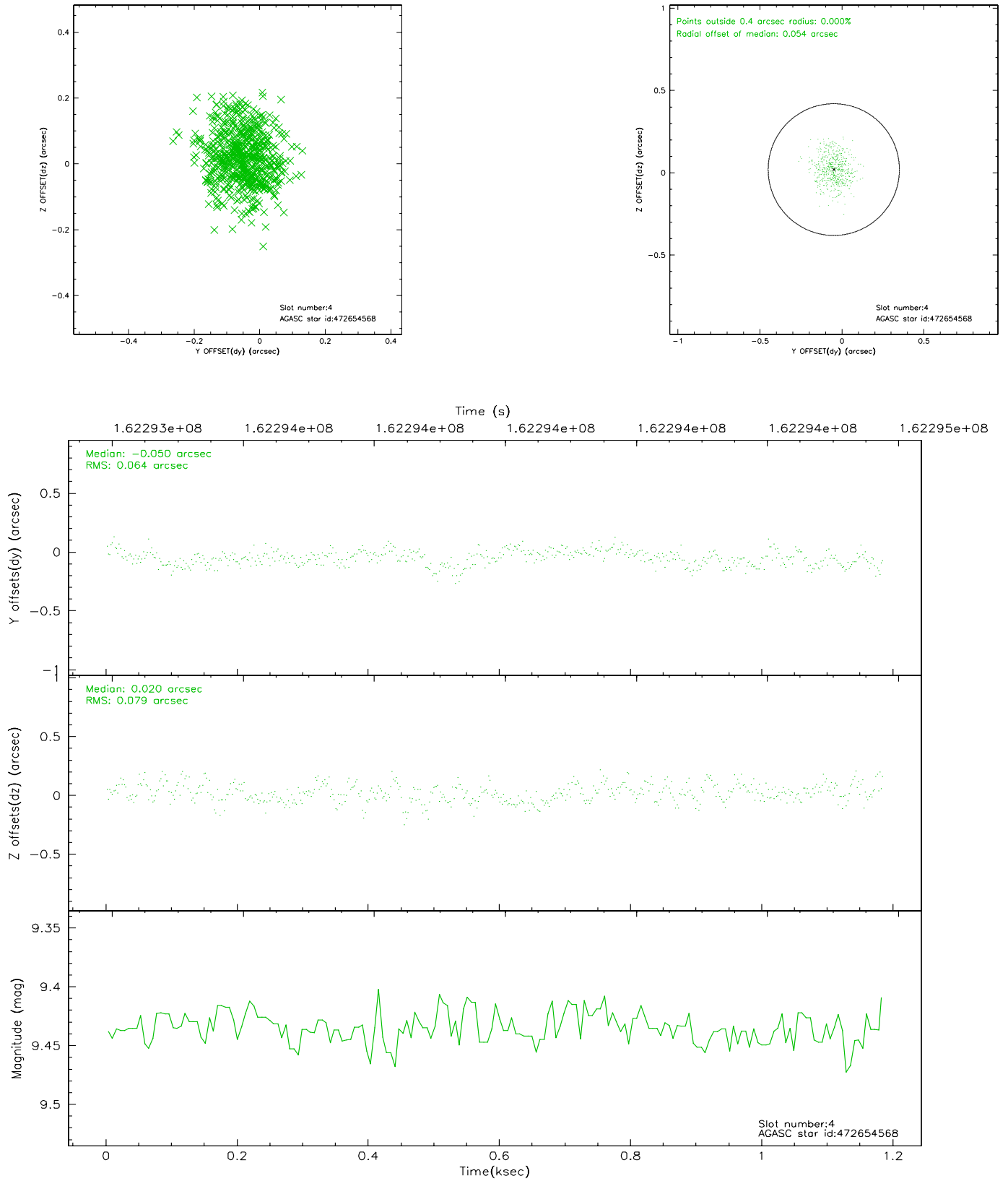


## 2.4 Star Slots

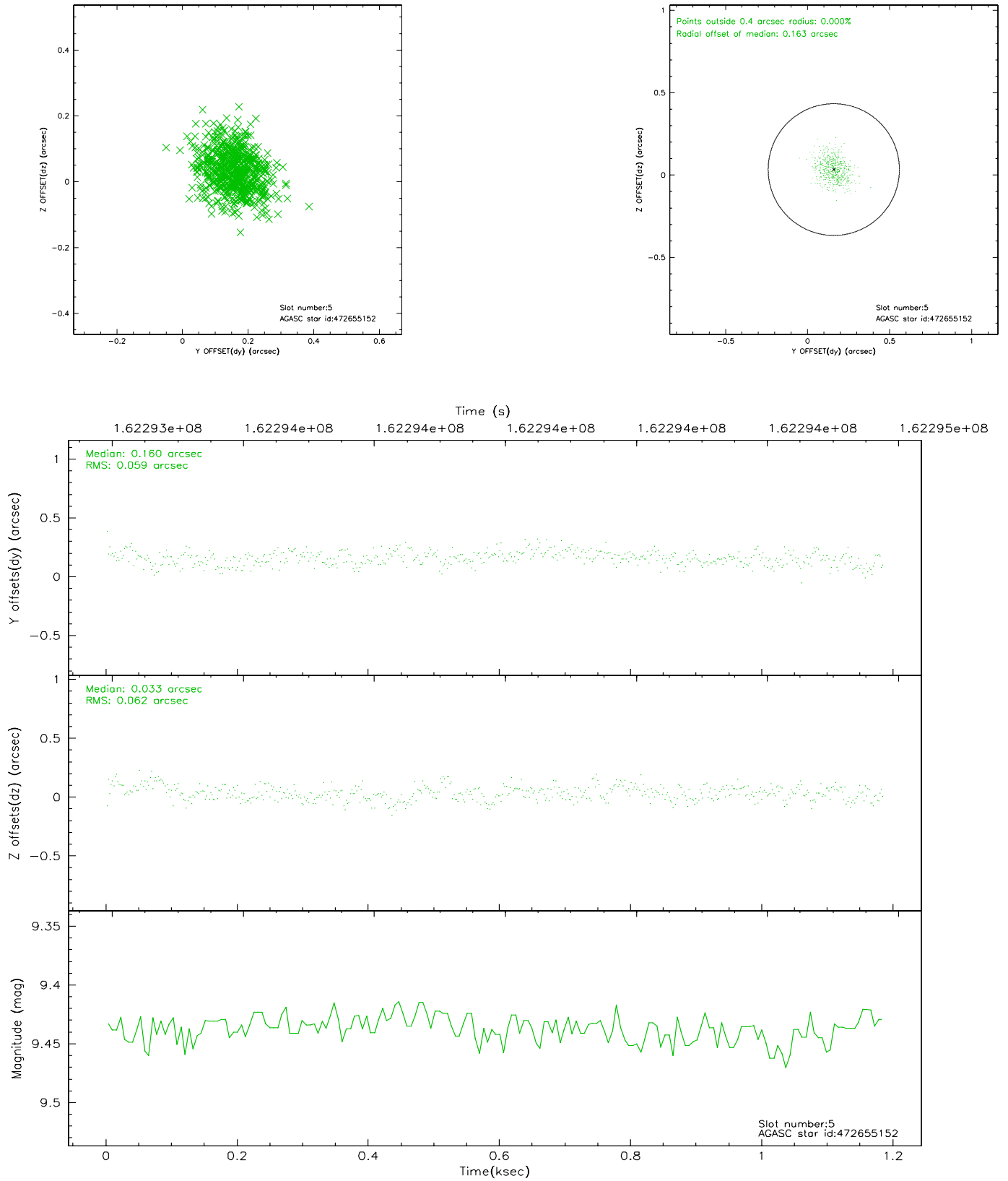
### 2.4.1 Slot 3



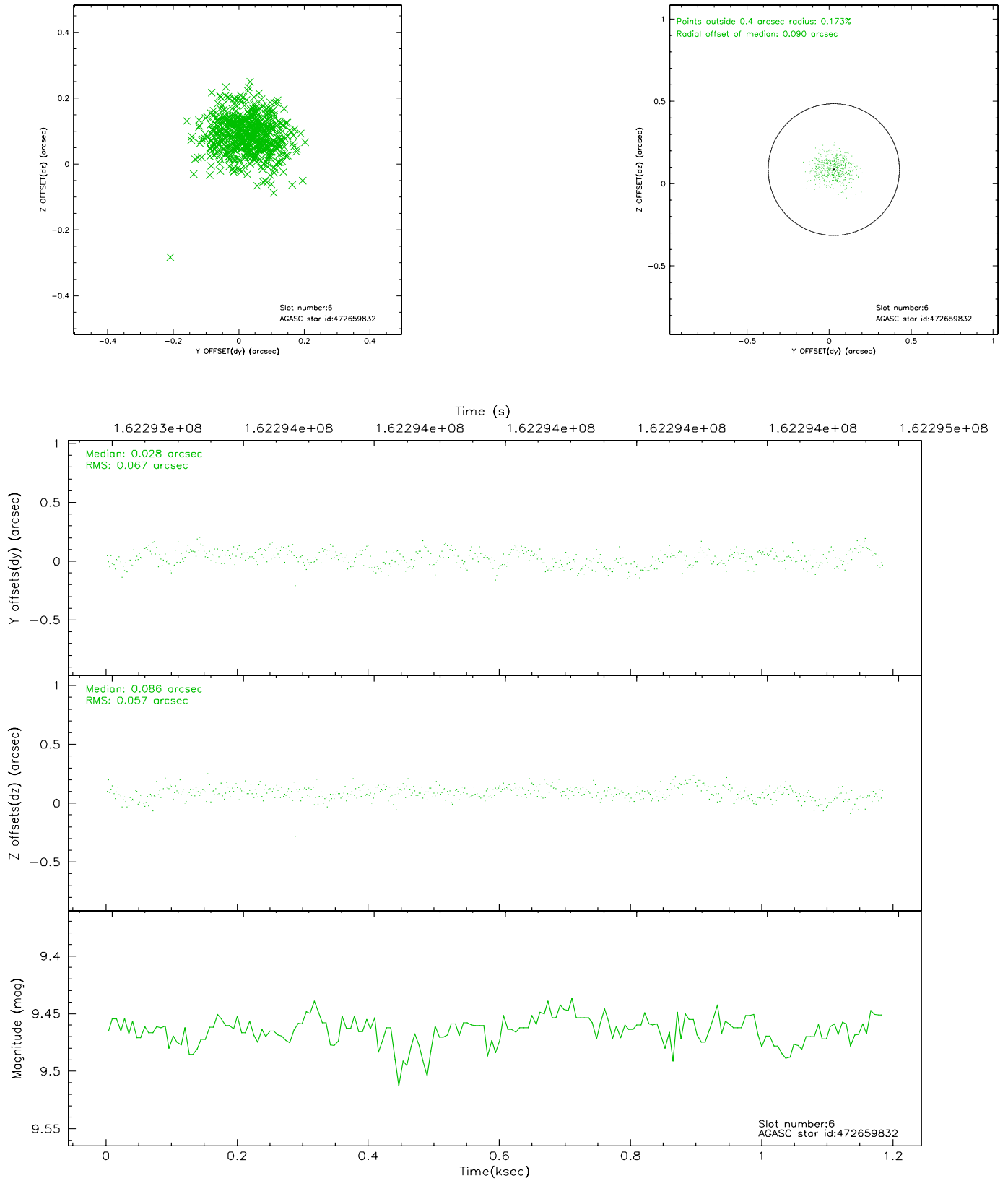
## 2.4.2 Slot 4



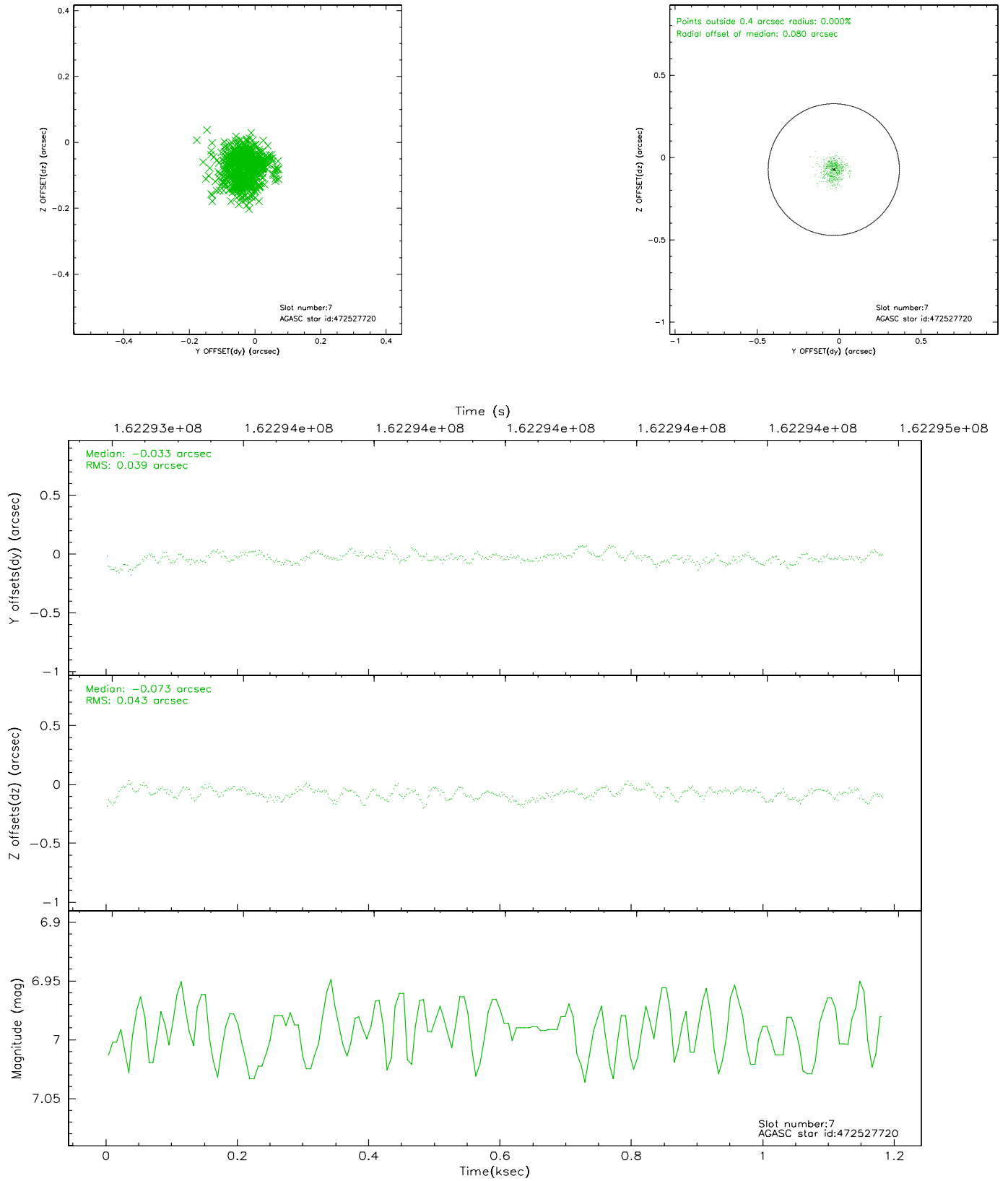
### 2.4.3 Slot 5



## 2.4.4 Slot 6

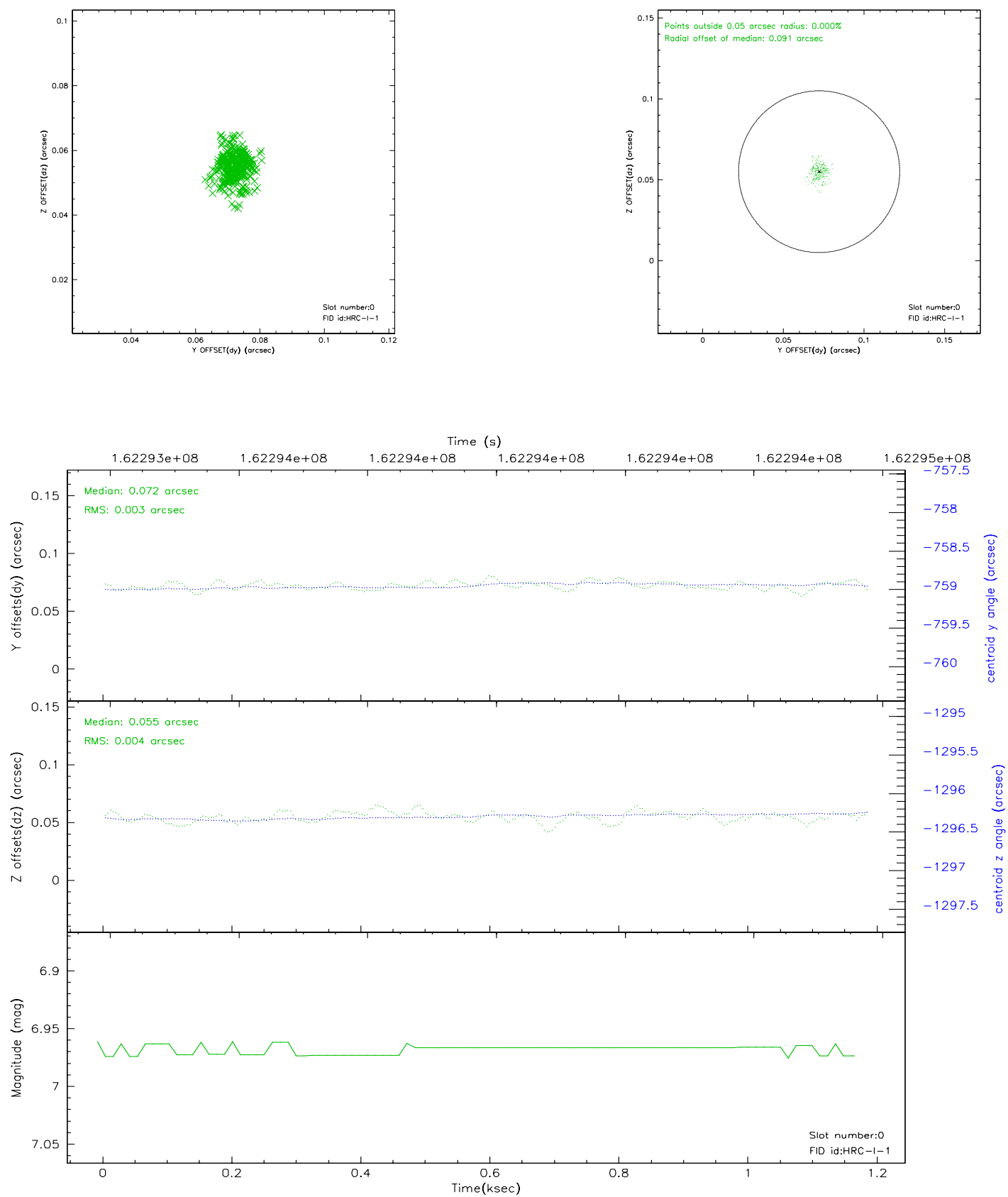


## 2.4.5 Slot 7

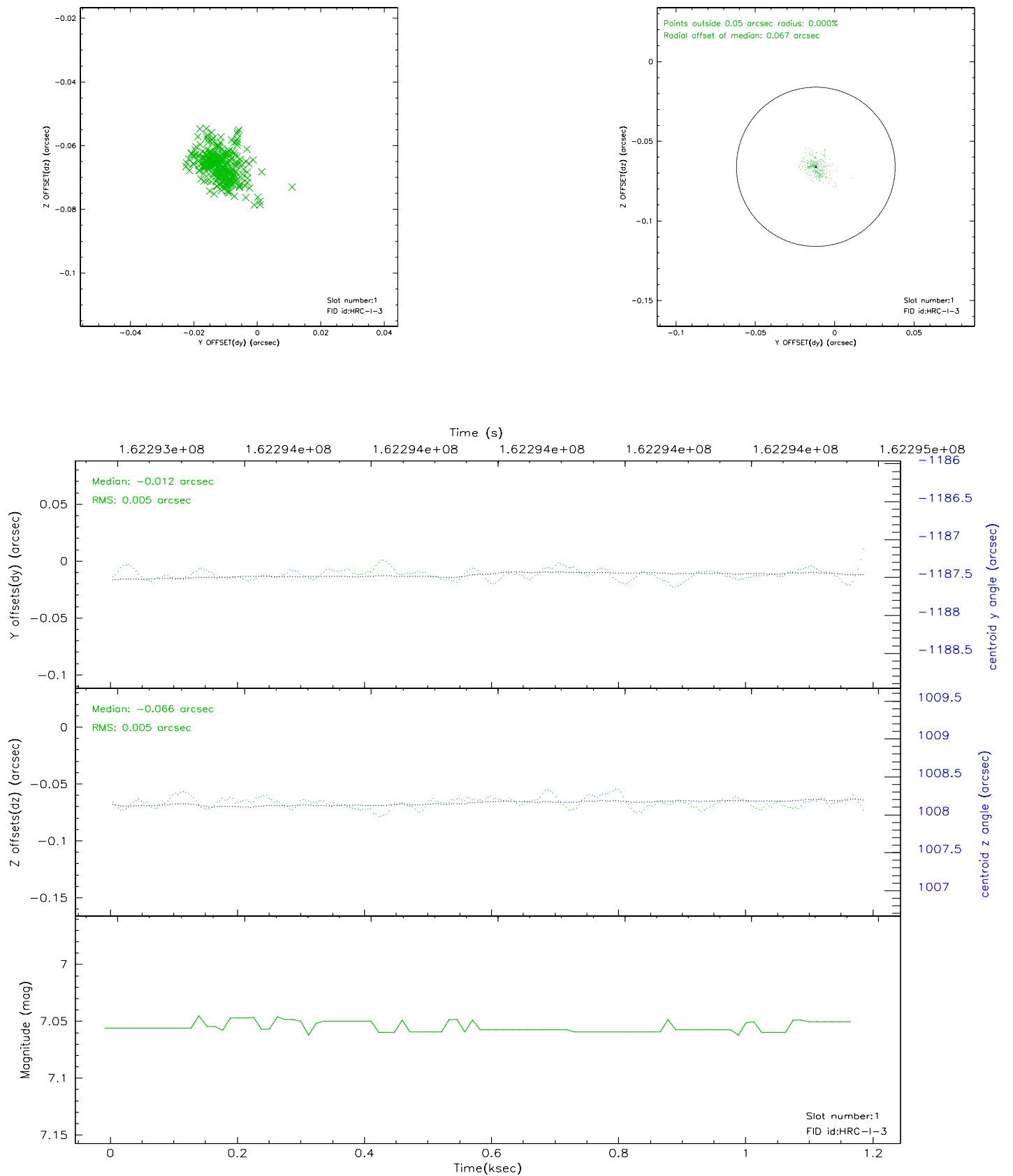


## 2.5 FID Slots

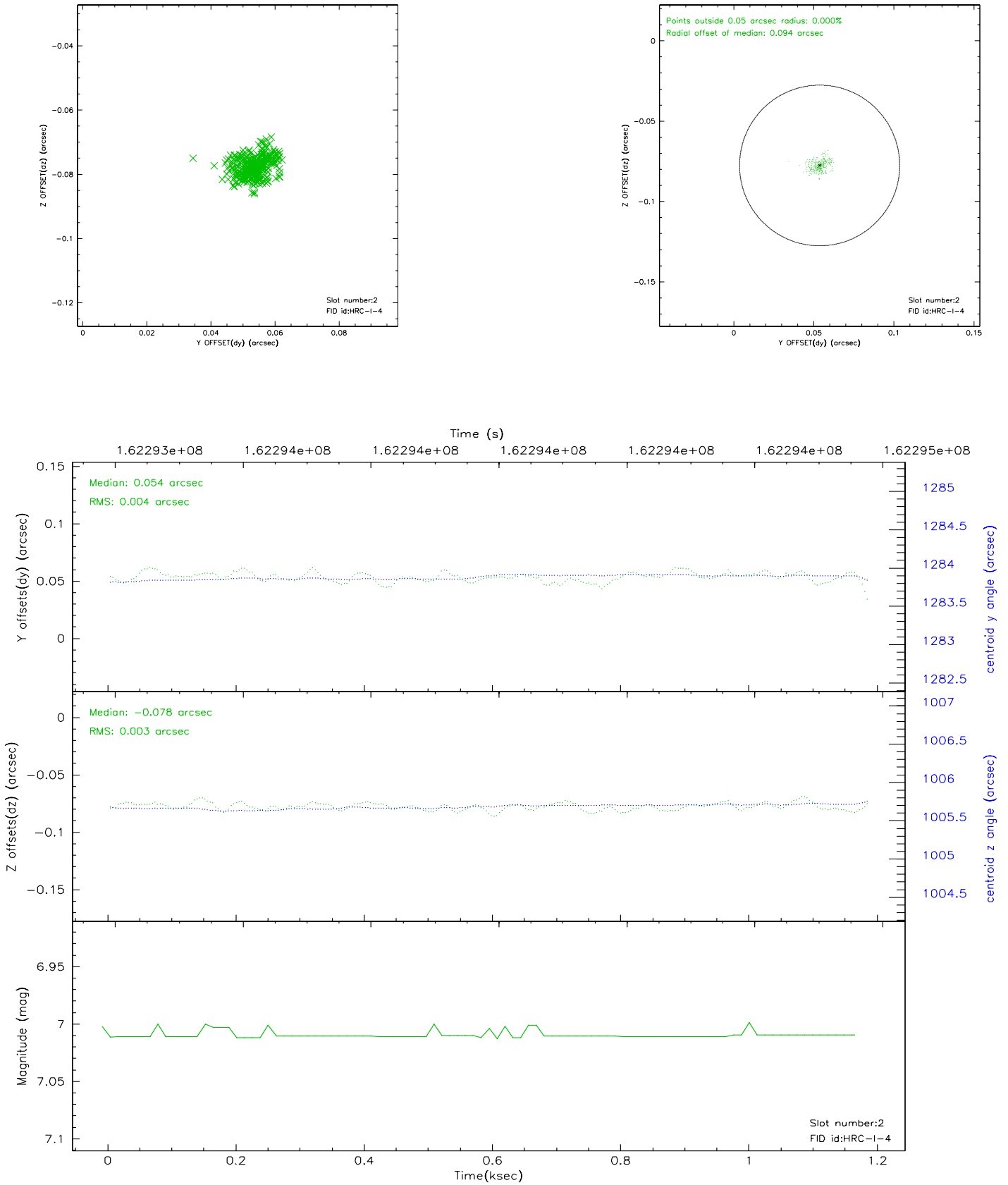
### 2.5.1 Slot 0



## 2.5.2 Slot 1

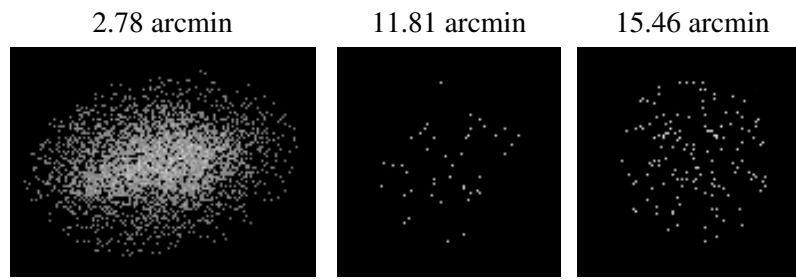


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.894

## A.2 Comments

Window constraint met.

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.