

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 2595 - L2 Version 3  
Chandra X-Ray Center

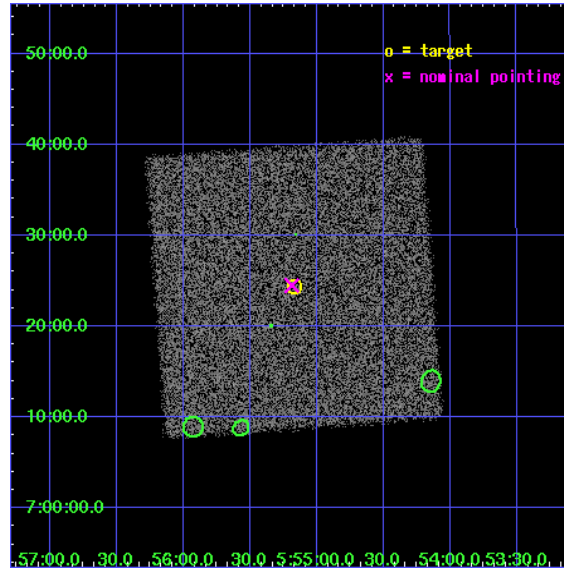
L2 Processing Date : Nov 20 2007

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# 1 Front

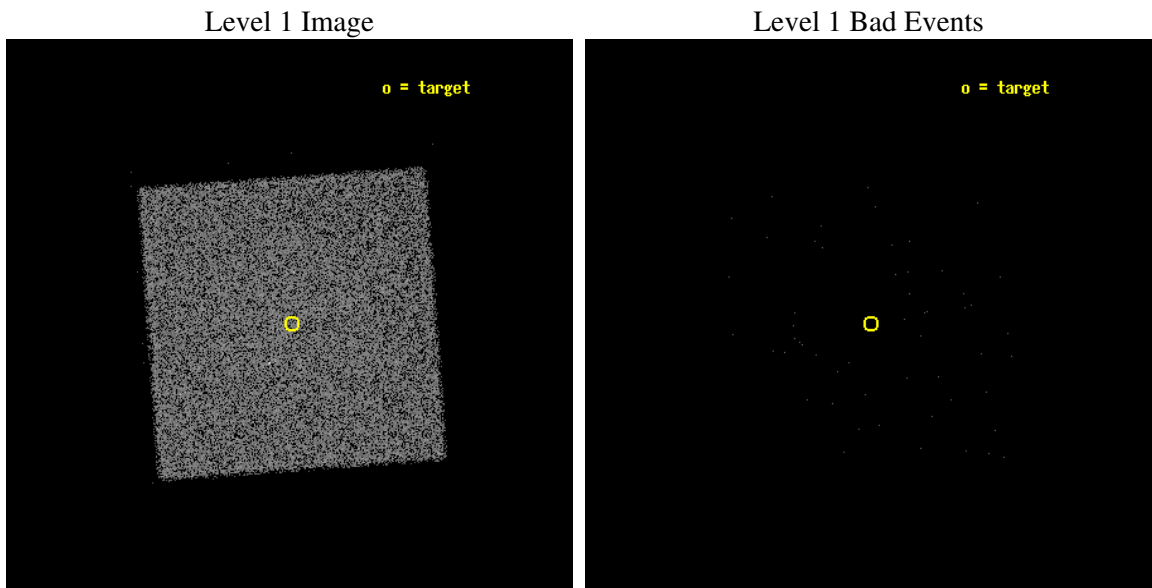
seq_num	290151
obs_id	2595
title	AO3 CALIBRATION OBSERVATIONS OF BETELGEUSE
observer	Dr. CXC Calibration
object	BETELGEUSE
ra_targ	88.792917
dec_targ	7.407056
ra_nom	88.796823640078
dec_nom	7.4085618109402
roll_nom	40.919158274758
revision	3
ontime	1894.4563258141
livetime	1885.0061100394
l2events	47785



## 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	2007-11-20T21:00:32
revision	3

sched_exp_time	2000.000000
ontime	1894.4563258141
l1events	81937

### 2.1.3 Events

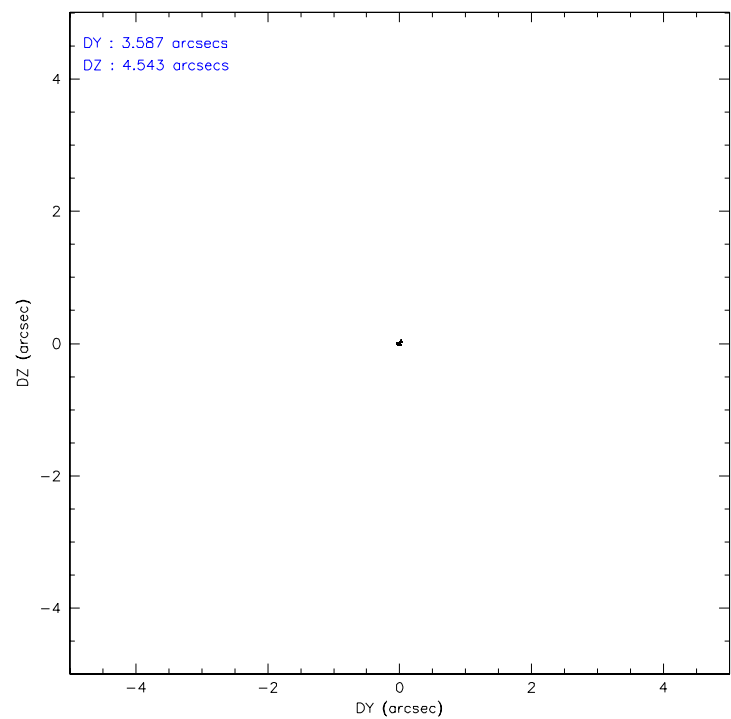
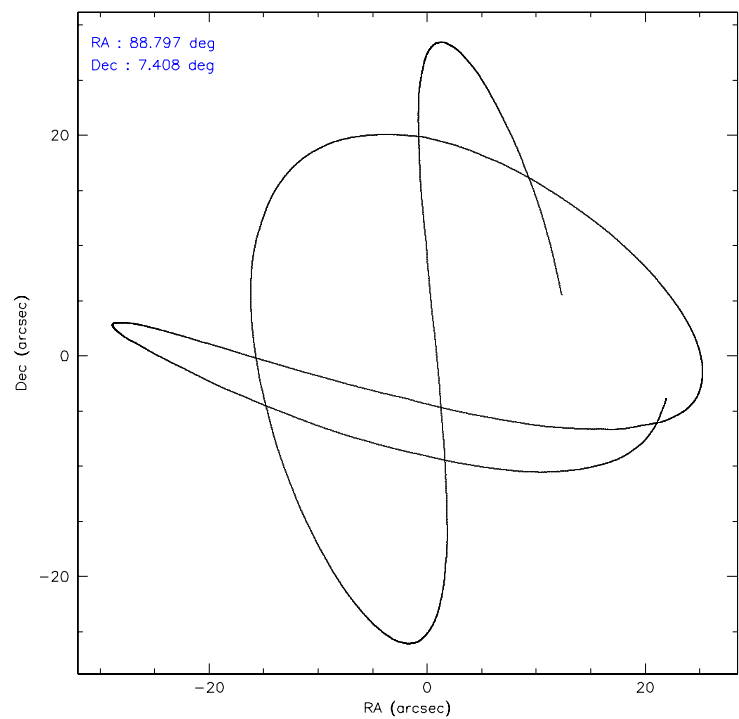
#### Level 1 Events

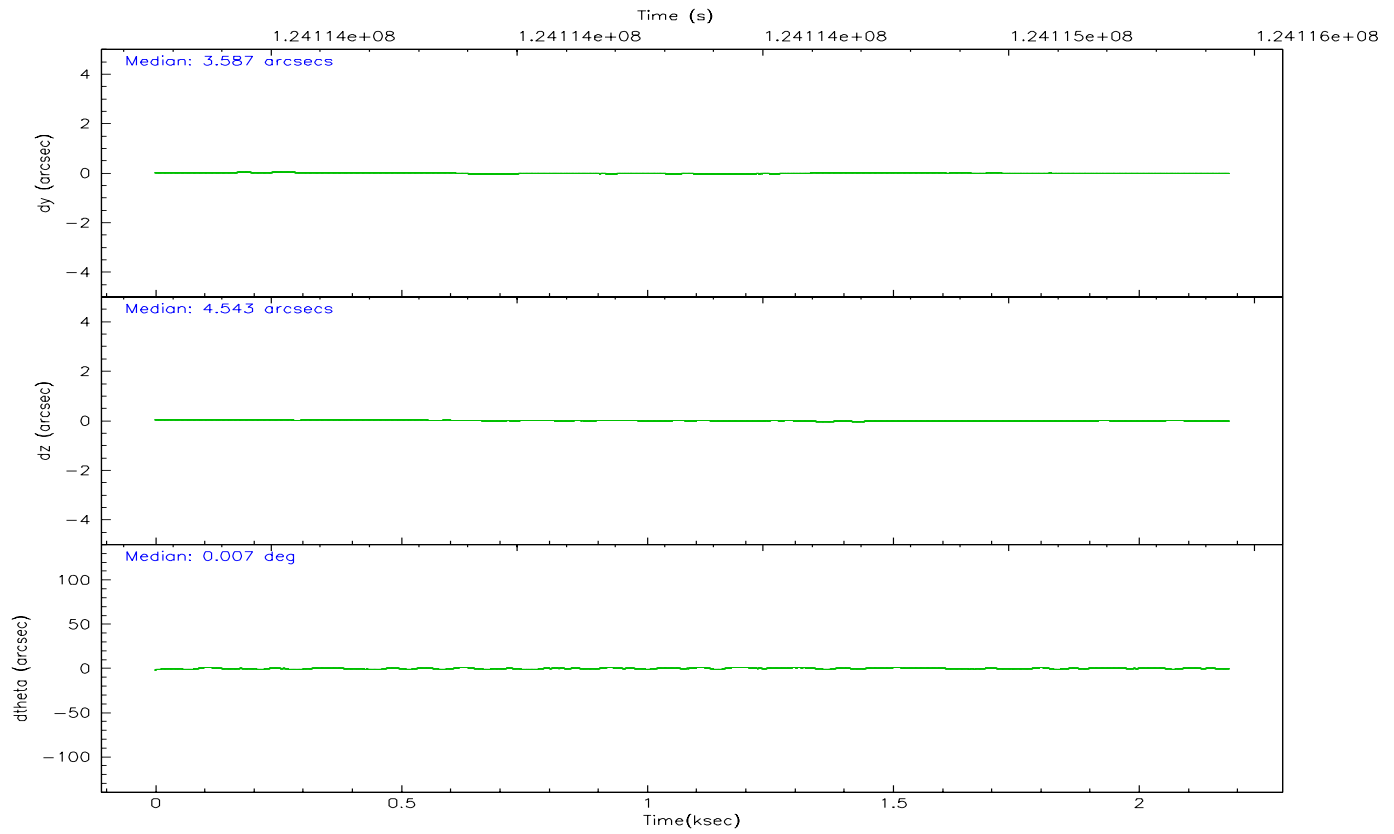
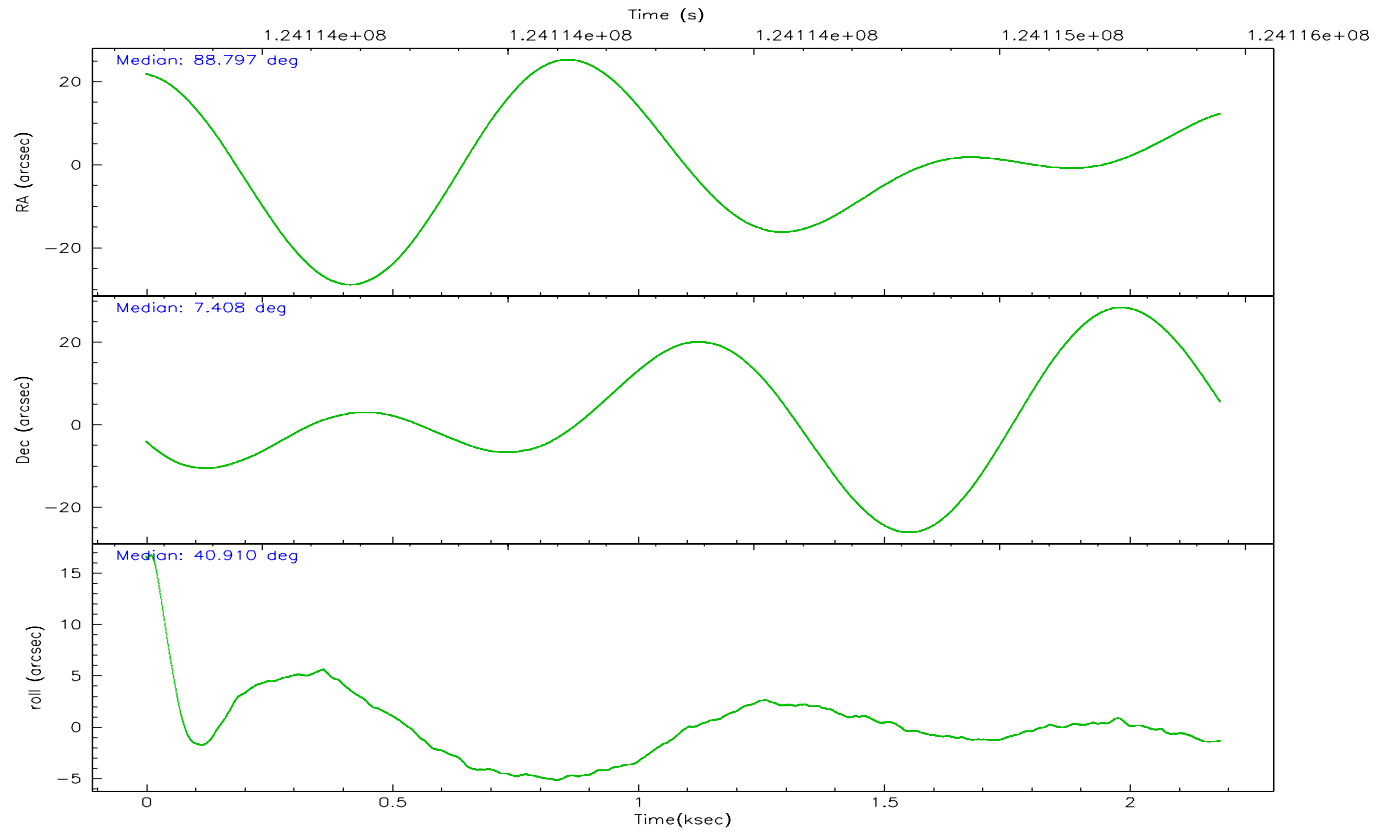
	<b>segment 0</b>
level 1 events	81937
rejected events	10427
rejected %	12%

## 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	88.788583	88.796823640078			
Pointing Dec	7.382548	7.40856181094018			
Pointing Roll	41.015680	40.91915827475776			
Window start time	123552064.184000	123552064.184000			
Window stop time	126144064.184000	126144064.184000			
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	124113448.184000	124113035.52698			
Observation start date	2001-12-07T11:56:24	2001-12-07T11:50:35			
Observation end time	124115448.184000	124115662.08959			
Observation end date	2001-12-07T12:29:44	2001-12-07T12:34:22			

2.3 Aspect





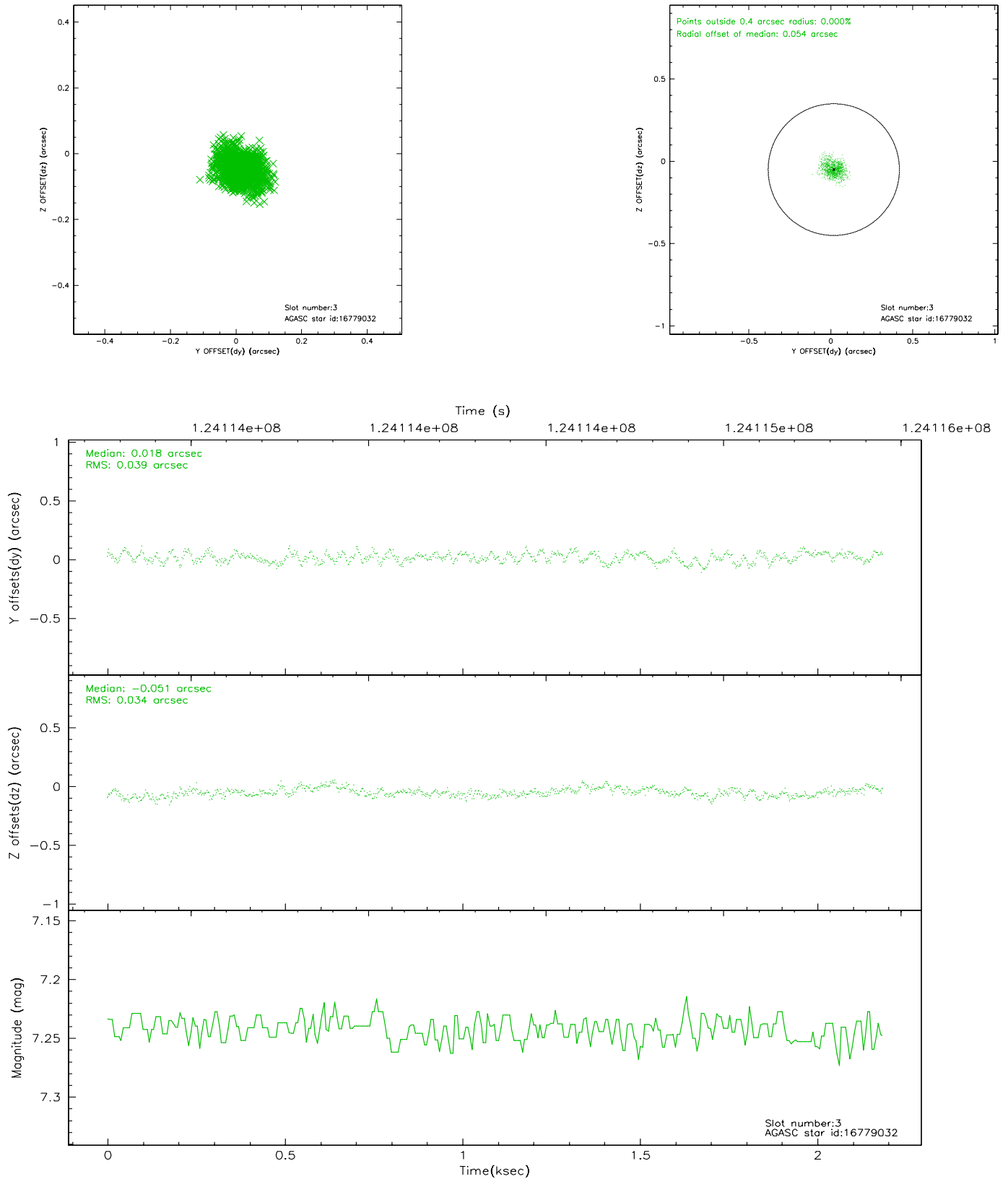
### Slot Statistics

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	533	0.011	0.075	0.007	0.011	0.000000	0.000000	-759.04	-1292.32
1	FID	HRC-I-2	7.01	533	0.088	-0.074	0.006	0.010	0.000000	0.000000	852.24	-1296.43
2	FID	HRC-I-3	7.05	534	0.021	-0.090	0.006	0.010	0.000000	0.000000	-1185.97	1009.65
3	GUIDE	16779032	7.24	1067	0.018	-0.051	0.055	0.091	88.070651	7.329382	-2058.18	1539.15
4	GUIDE	93856056	7.99	1067	0.020	-0.160	0.059	0.093	88.147460	7.547925	-1336.34	1953.24
5	GUIDE	16913360	8.34	1067	-0.055	0.067	0.055	0.094	89.178373	7.247125	730.19	-1278.84
6	GUIDE	16918912	8.65	1067	-0.063	0.173	0.080	0.128	89.257075	6.922287	177.97	-2349.25
7	GUIDE	93855168	9.06	1066	0.081	-0.027	0.074	0.118	89.021483	7.846508	1723.65	713.47

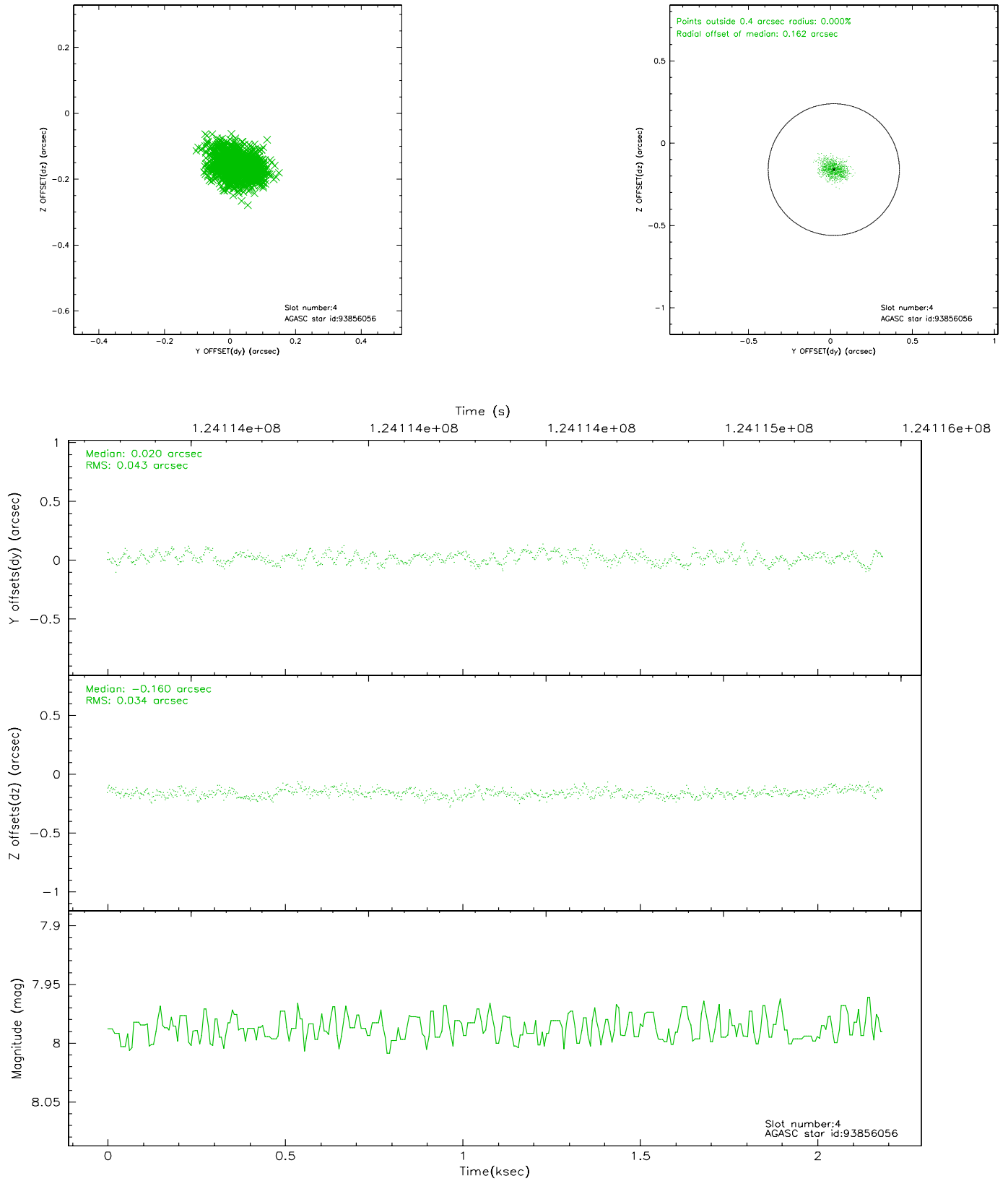


## 2.4 Star Slots

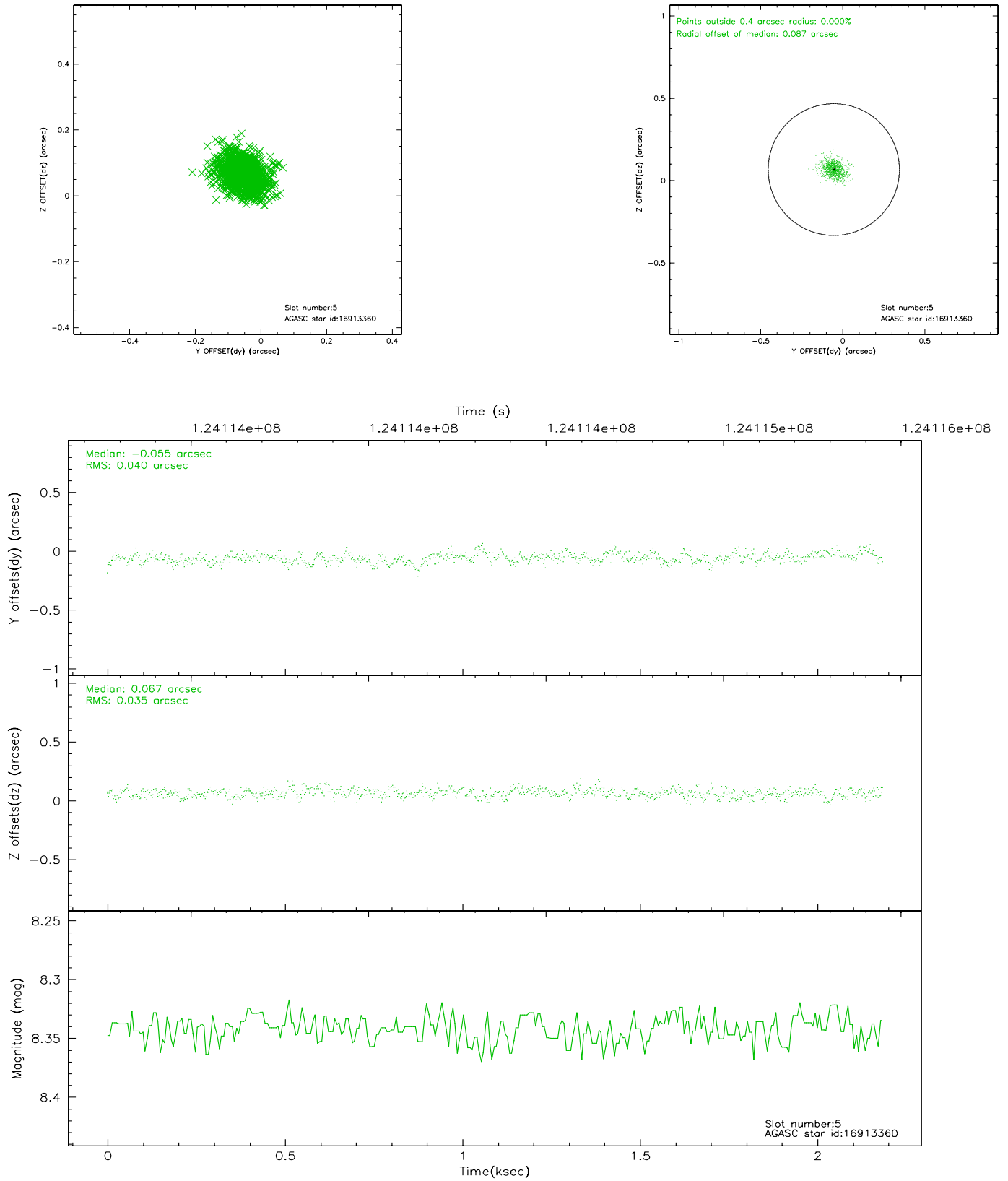
### 2.4.1 Slot 3



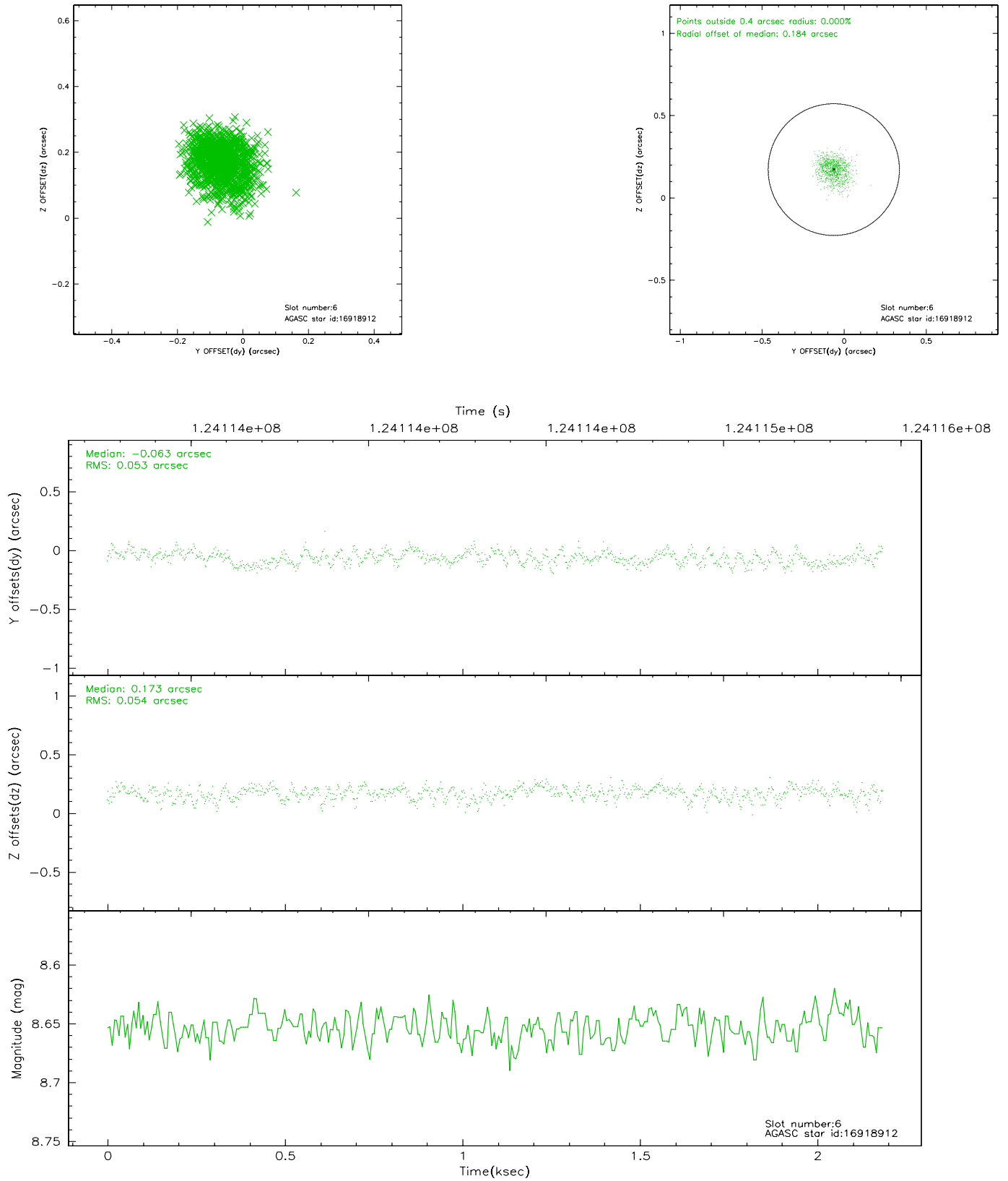
## 2.4.2 Slot 4



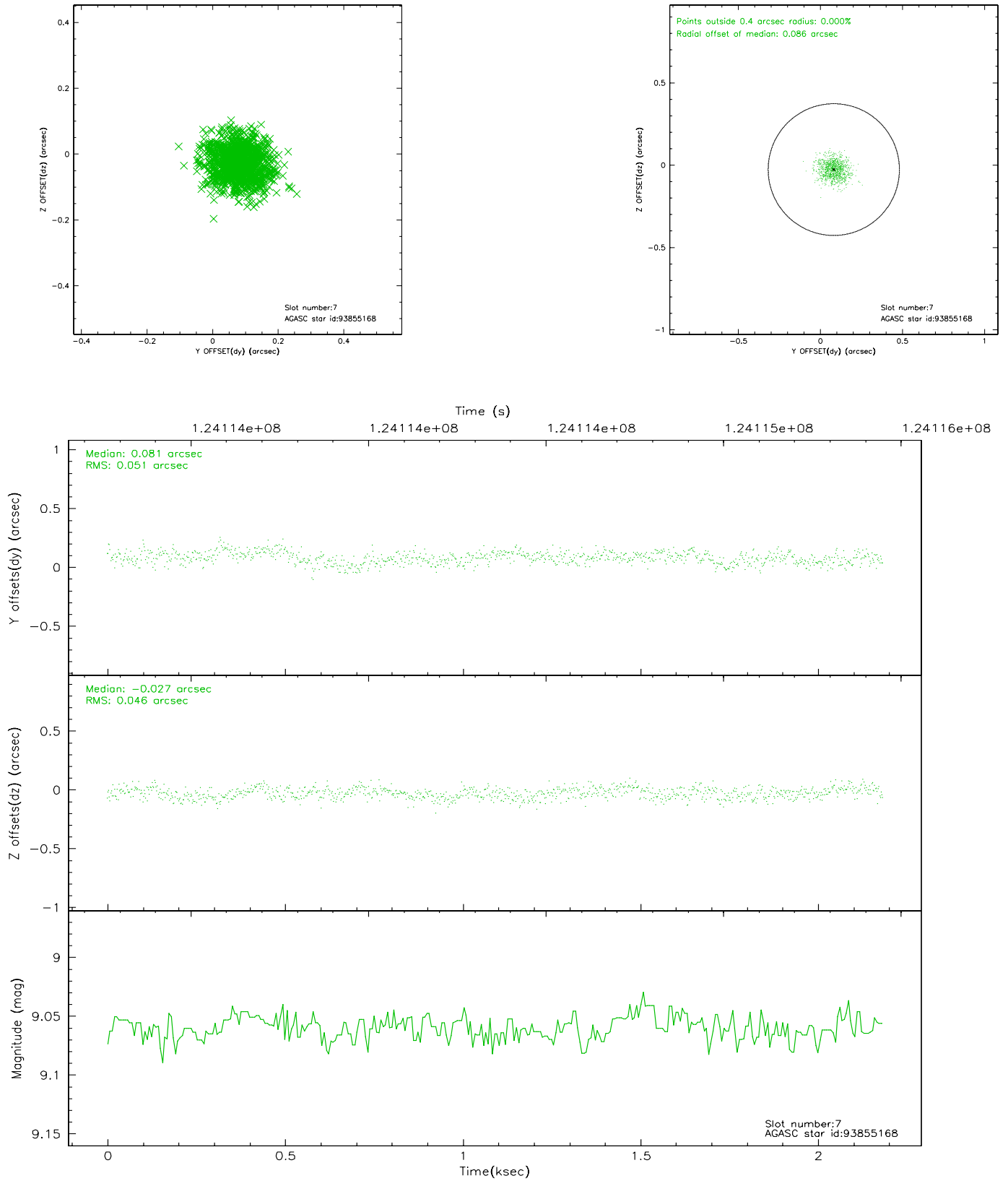
### 2.4.3 Slot 5



## 2.4.4 Slot 6

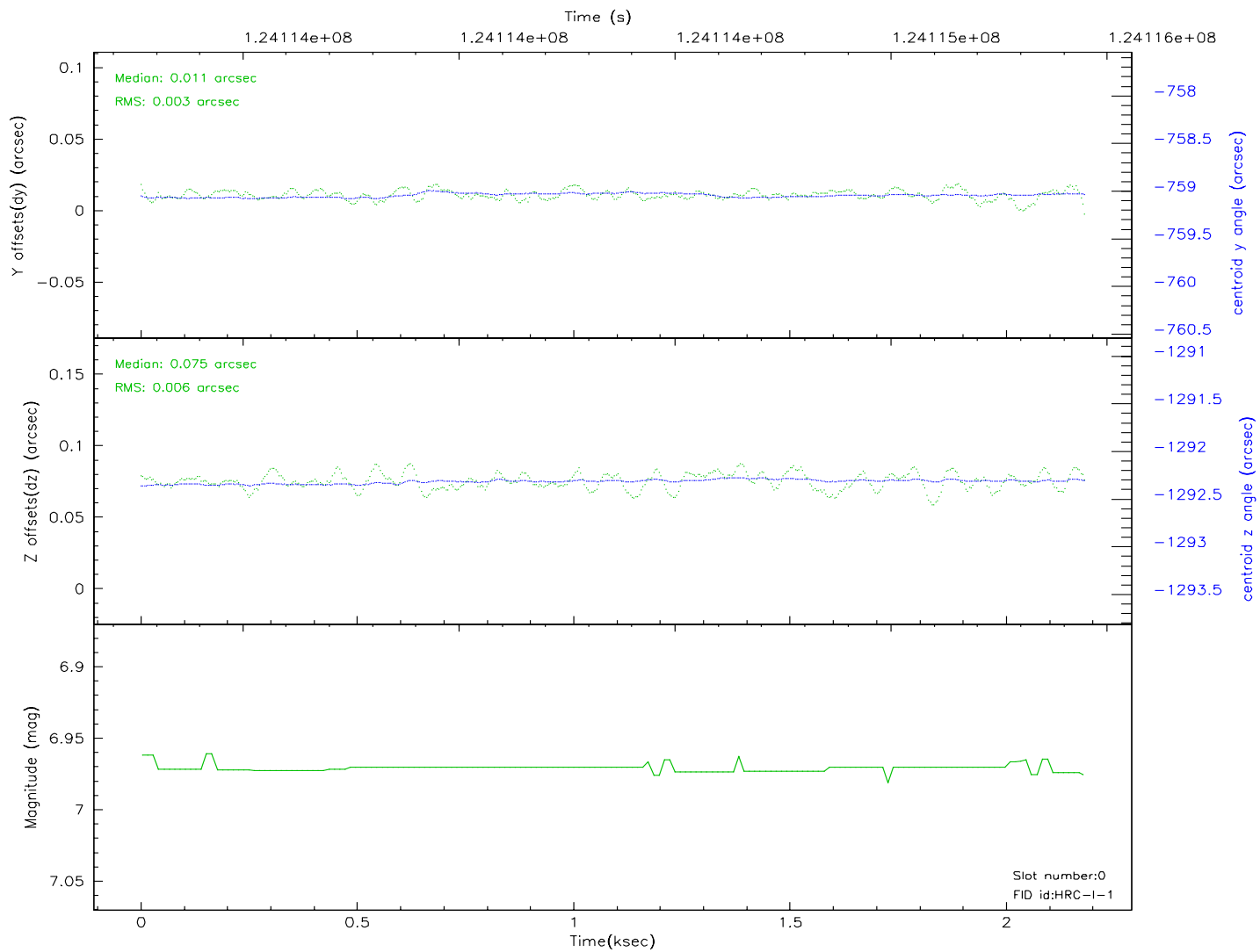
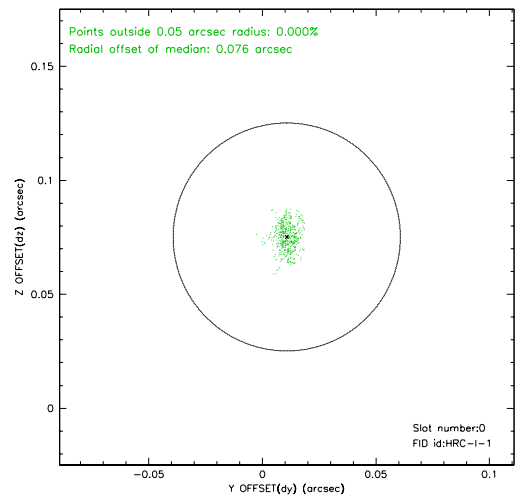
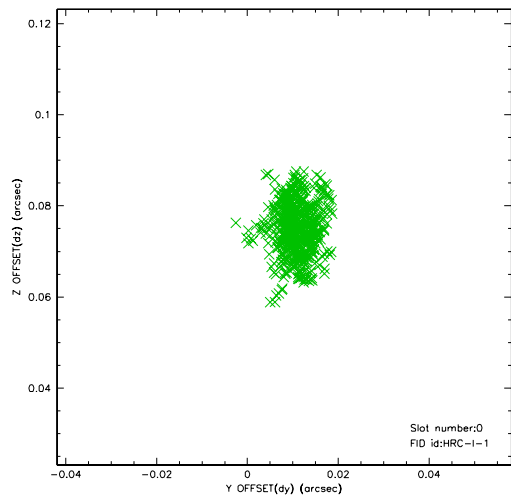


## 2.4.5 Slot 7

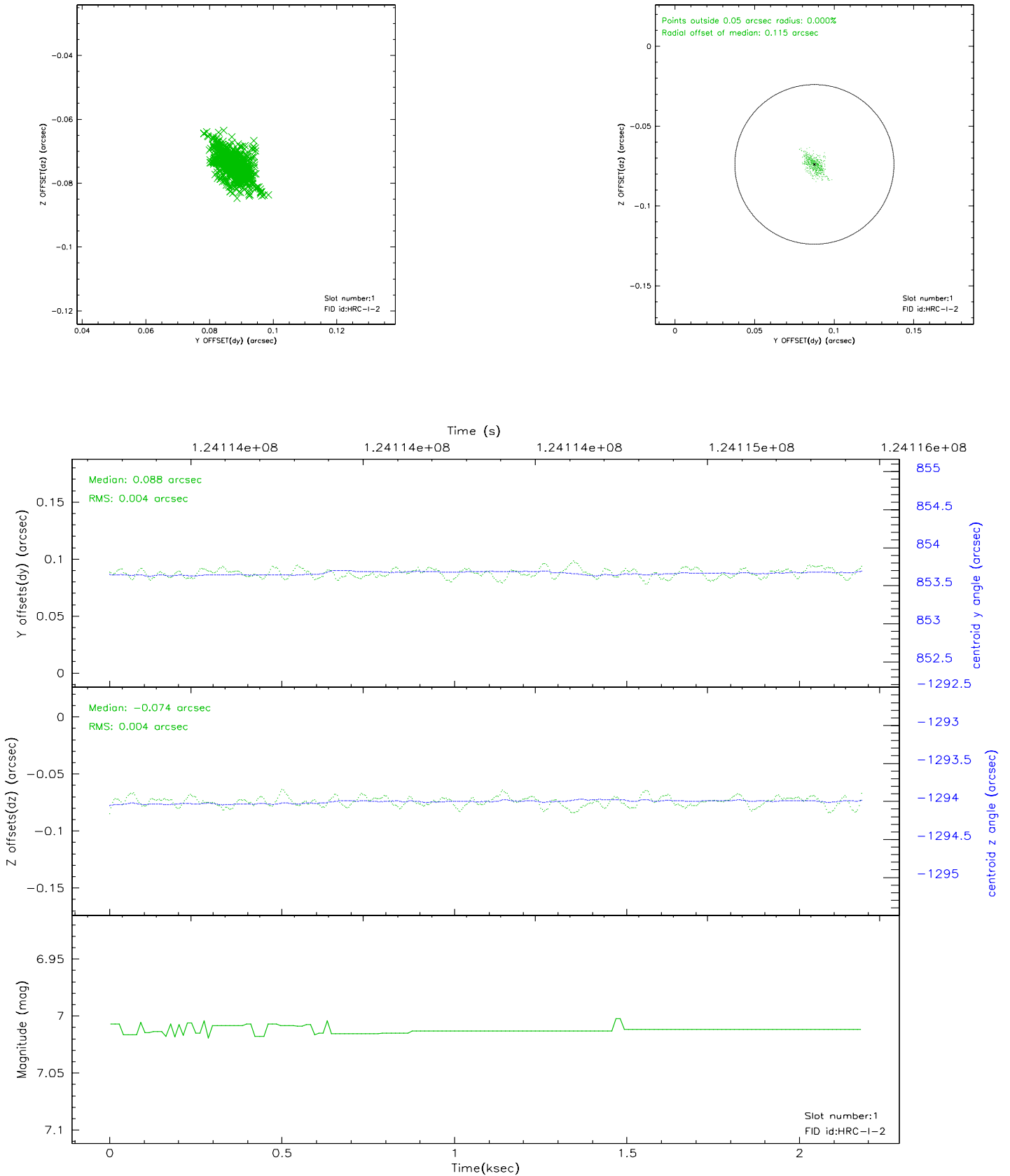


## 2.5 FID Slots

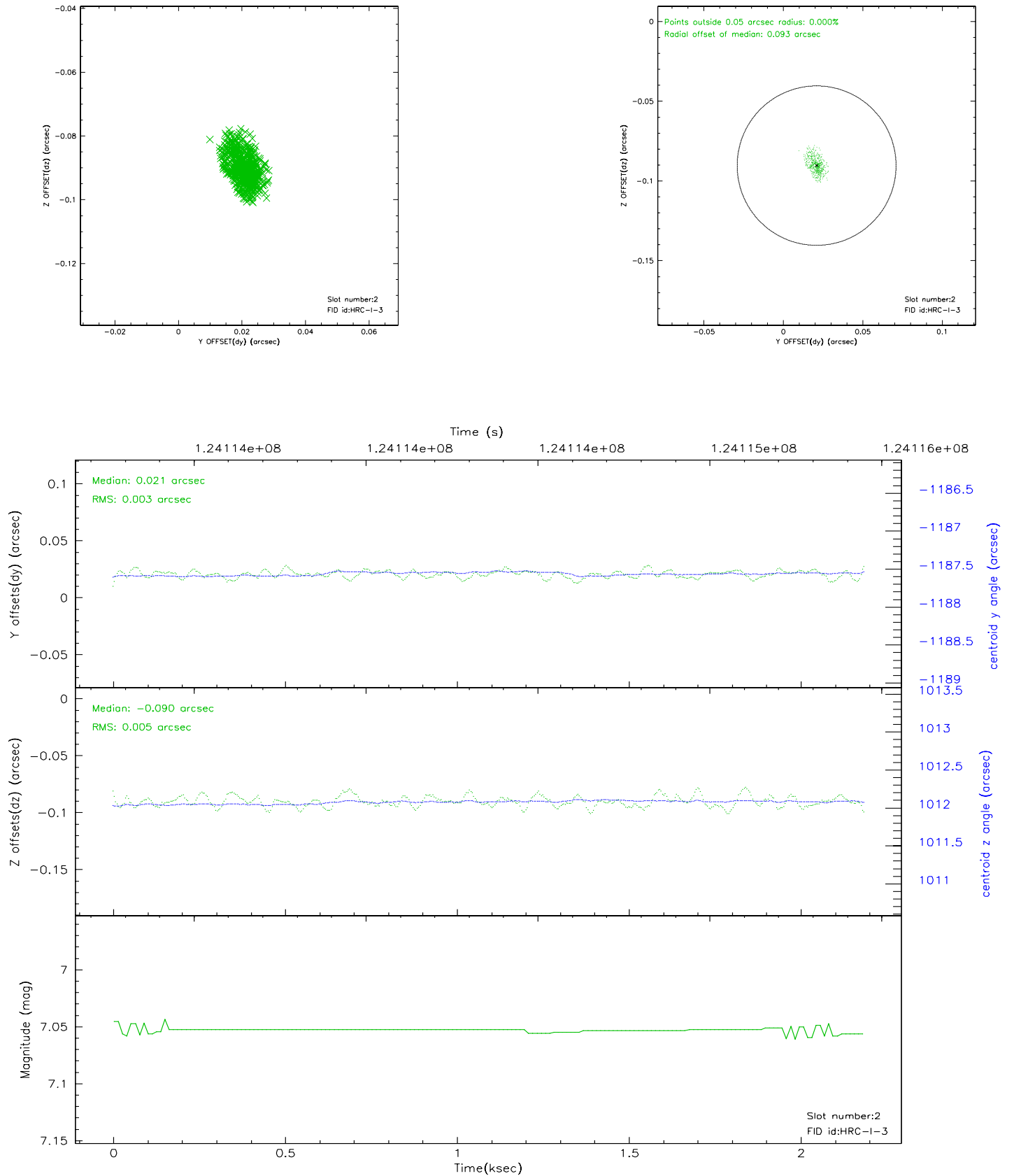
### 2.5.1 Slot 0



## 2.5.2 Slot 1

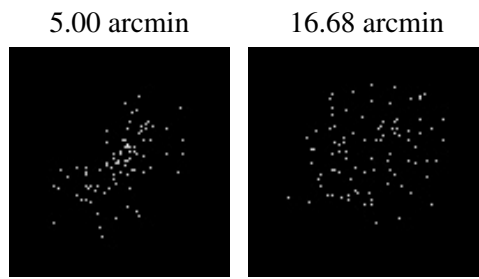


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.892

## 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.