

# V&V Reference Report

## L2 ASCDS Version : 8.2.1

Observation 1285 - L2 Version 4

Chandra X-Ray Center

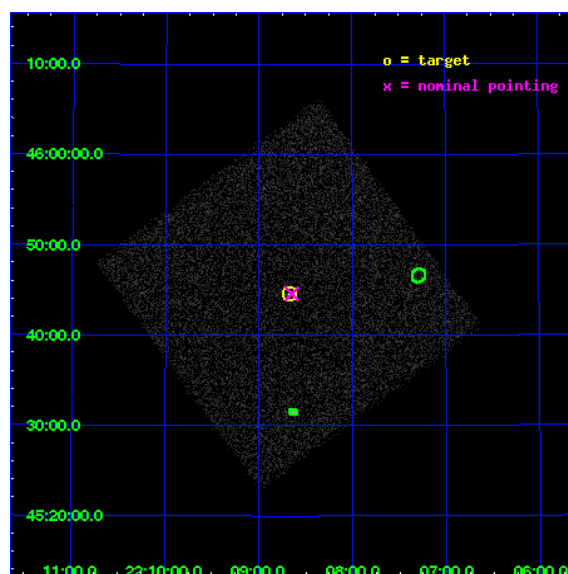
L2 Processing Date : Jan 12 2010

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# 1 Front

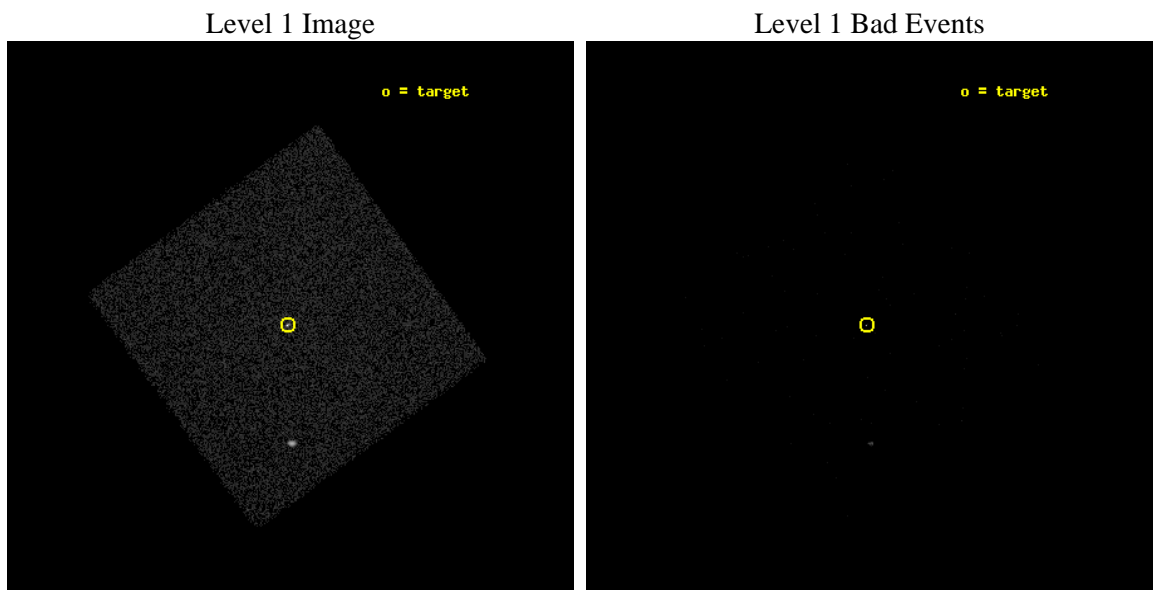
seq_num	280235	Sequence number
obs_id	1285	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.1701	Observer's specified target RA
dec_targ	45.7423	Observer's specified target Dec
ra_nom	332.1618068419	Nominal RA
dec_nom	45.743415375062	Nominal Dec
roll_nom	189.02753296428	Nominal Roll
revision	4	Processing version of data
ontime	794.63127854466	[s]
livetime	788.58374864516	Ontime multiplied by DTCOR
l2events	27273	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.2.1	Processing system revision	ontime	794.63127854466	[s]
caldbver	4.1.5	&#160	l1events	47841	Number of level 1 events
date	2010-01-12T15:51:33	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

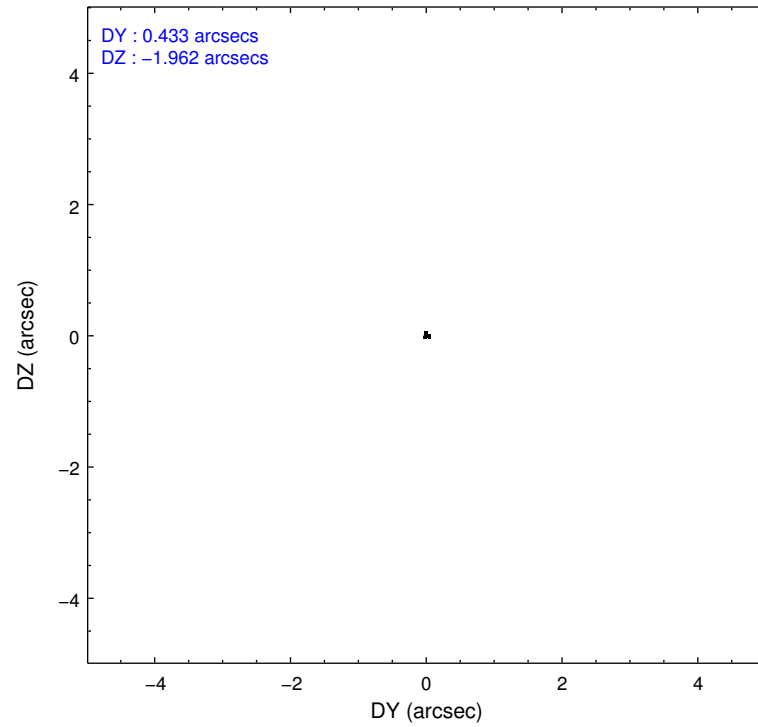
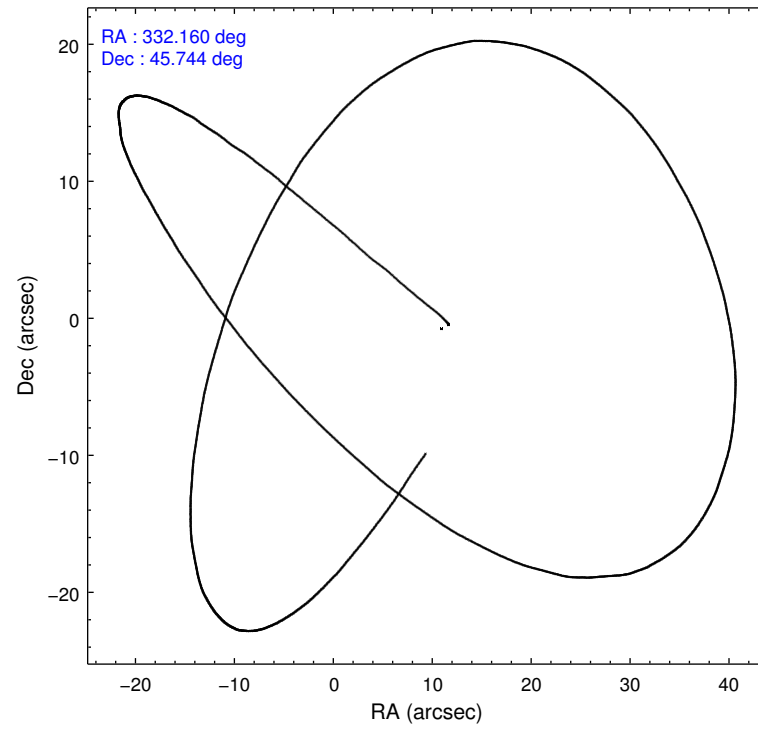
	<b>segment 0</b>
level 1 events	47841
rejected events	2870
rejected %	5%

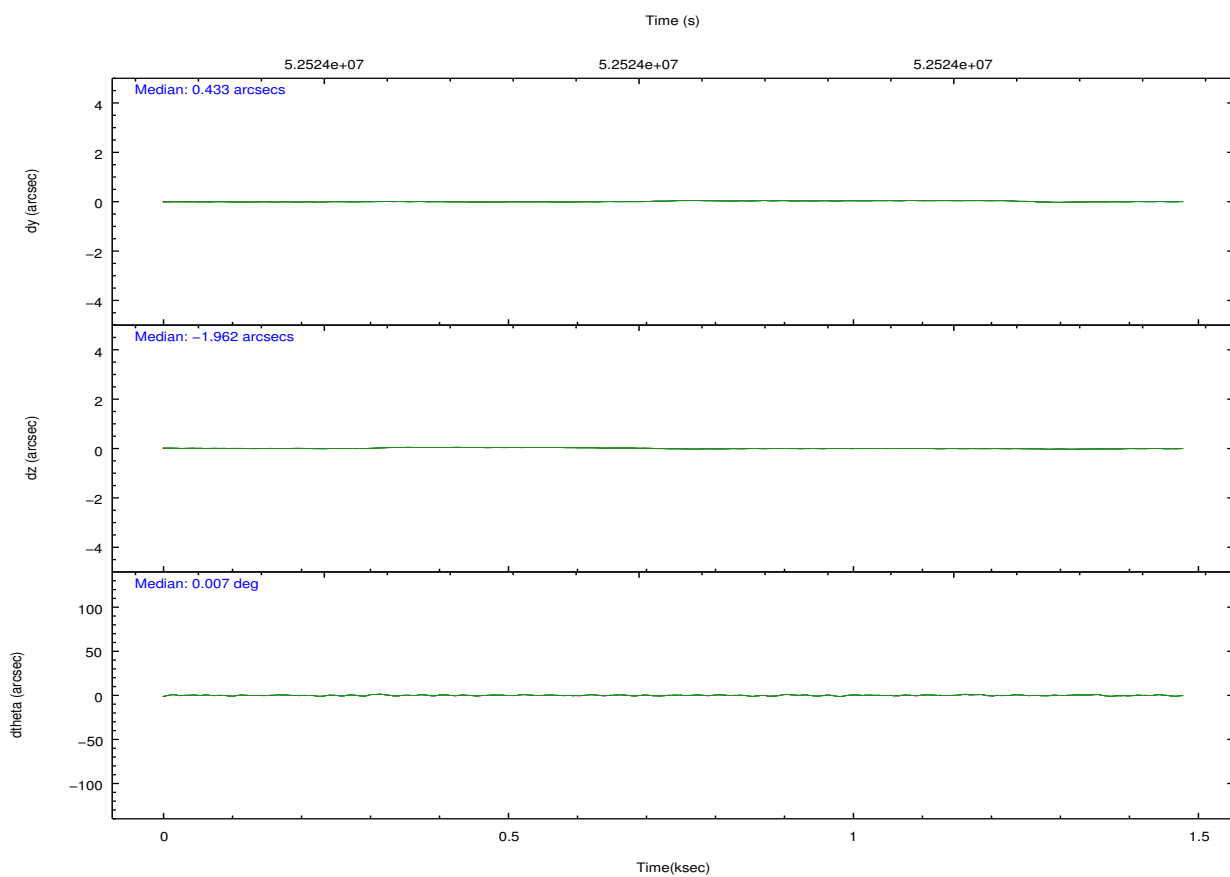
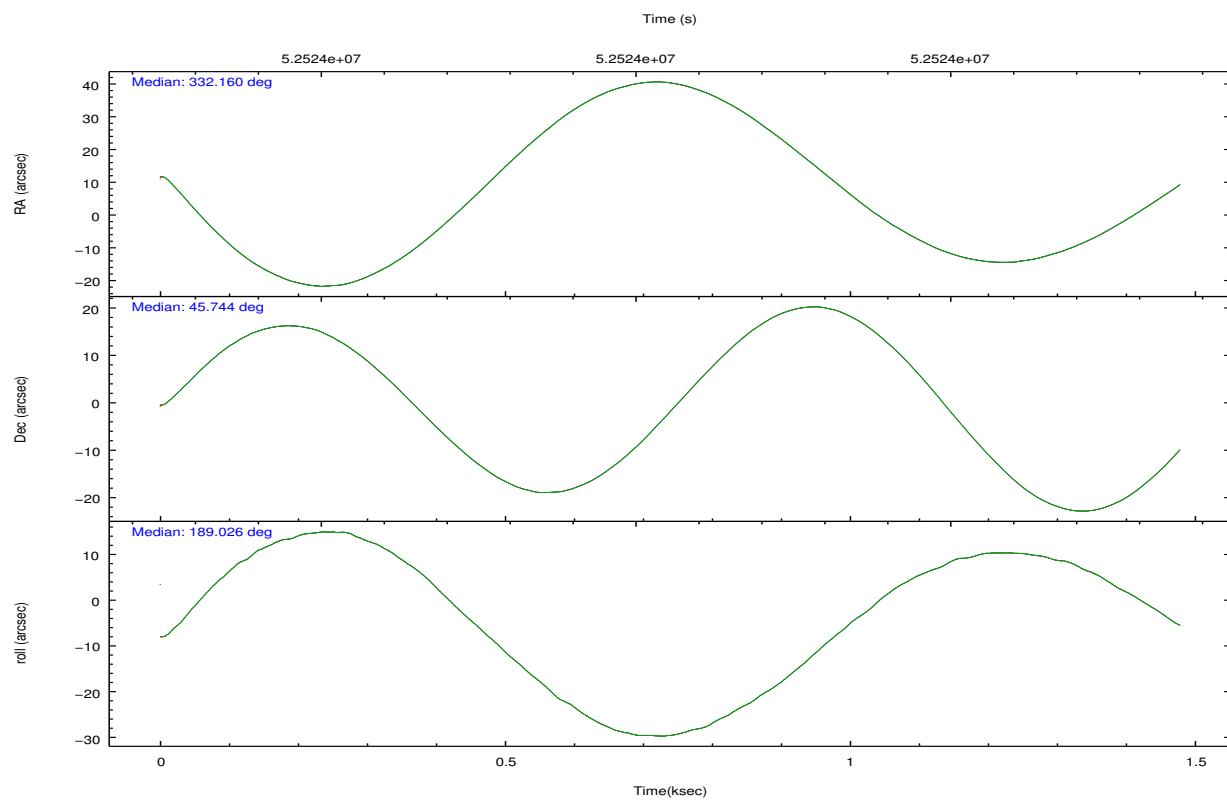
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	332.193895	332.1618068419024
Pointing Dec	45.760837	45.74341537506163
Pointing Roll	189.100015	189.0275329642752
SIM focus pos (mm)	-0.790293	-1.300001029371461
SIM defocus (mm)	0.25	-0.259708408712586
SIM translation stage pos (mm)	126.985494	126.9829799899862
SIM translation stage offset (mm)	0	0.002508901615314585
Observation start time	52523794.184000	52523128.537038
Observation start date	1999-08-31T21:55:30	1999-08-31T21:45:28
Observation end time	52524794.184000	52524928.437102
Observation end date	1999-08-31T22:12:10	1999-08-31T22:15:28

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



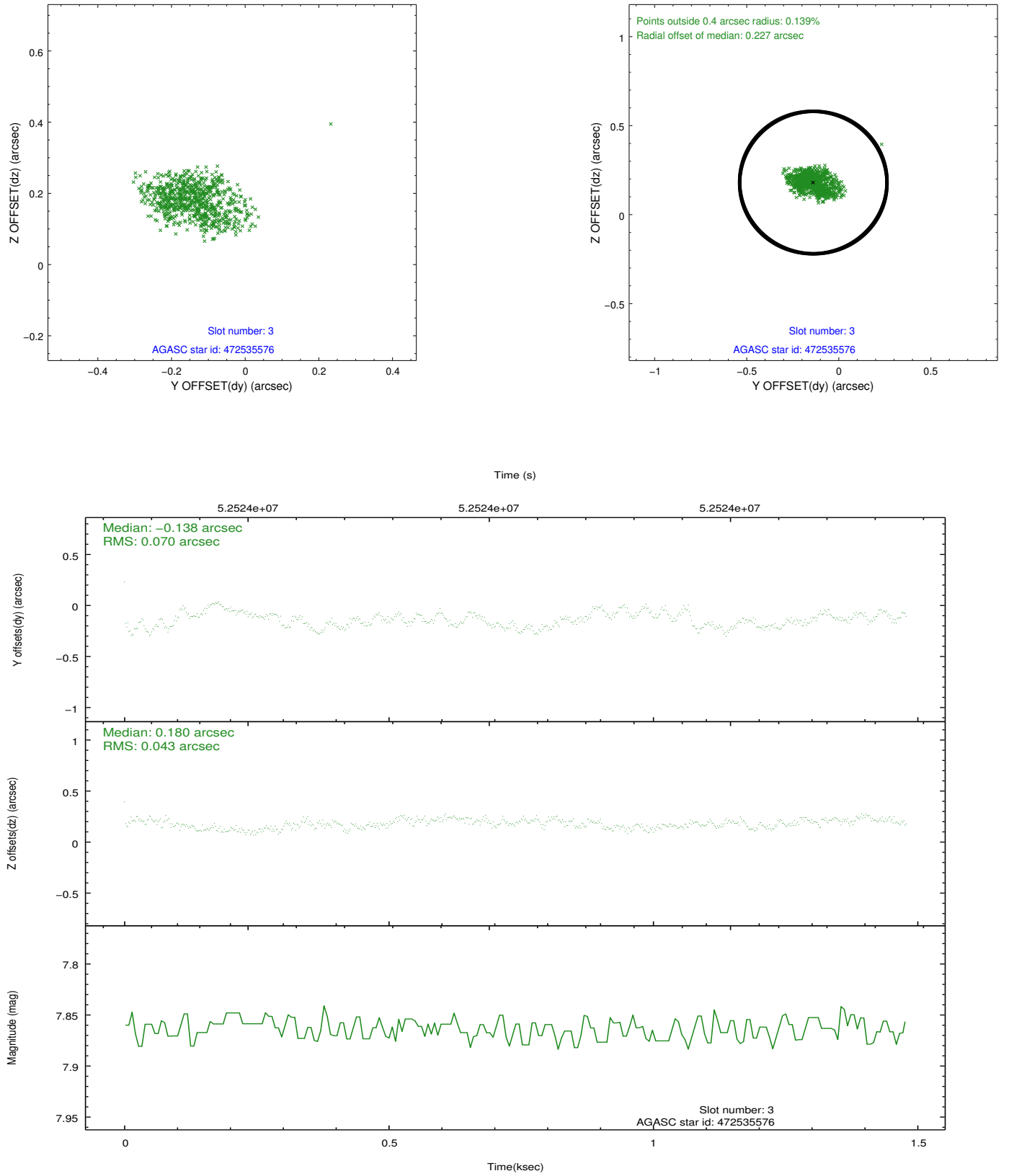


Slot Statistics

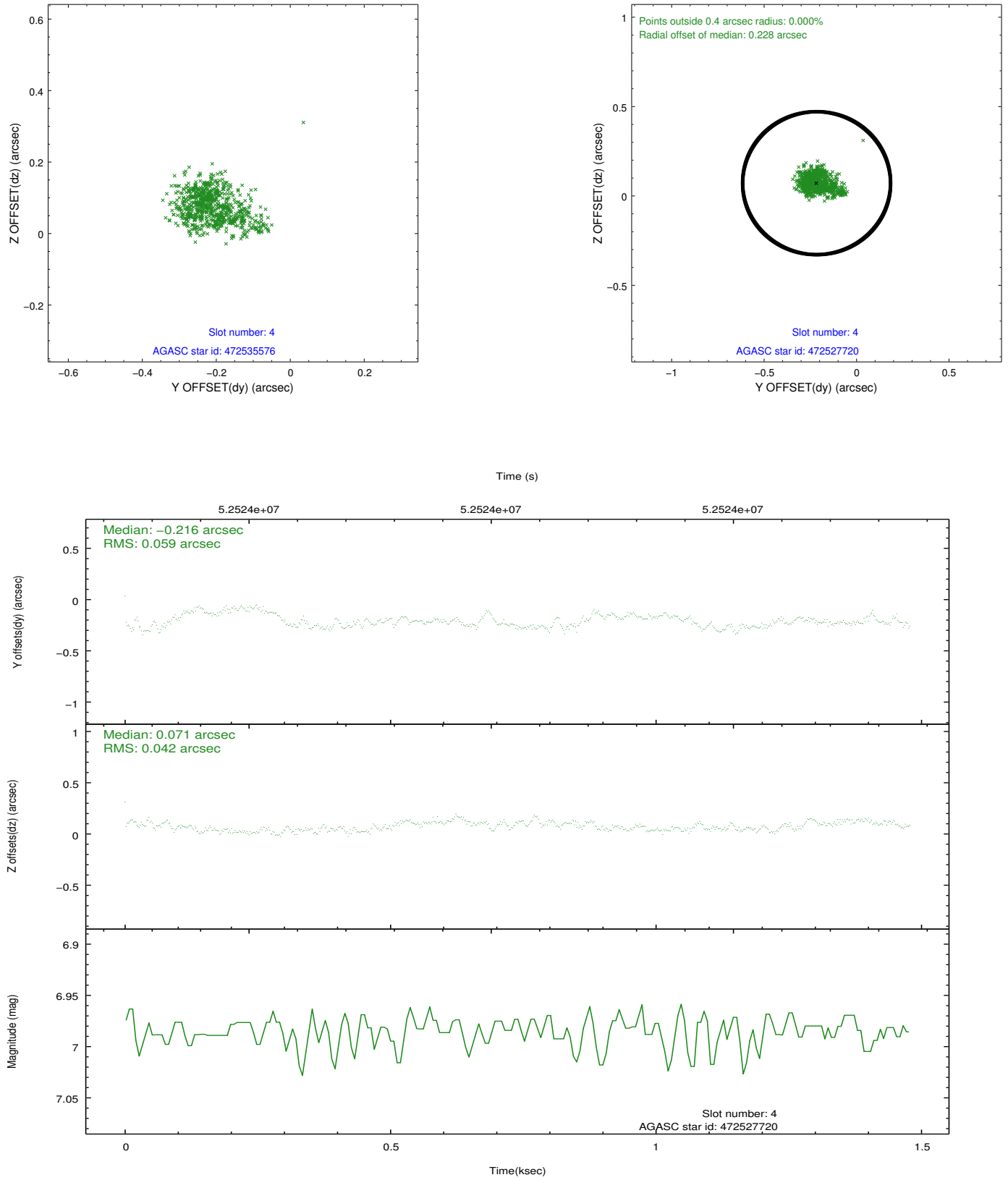
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.95	722	0.027	-0.116	0.006	0.010	0.000000	0.000000	-755.76	-1285.74
1	FID	HRC-I-3	7.04	722	0.044	0.032	0.007	0.011	0.000000	0.000000	-1185.34	1017.11
2	FID	HRC-I-4	6.97	722	0.043	-0.006	0.005	0.009	0.000000	0.000000	1285.28	1017.96
3	GUIDE	472535576	7.86	722	-0.138	0.180	0.087	0.138	331.438373	46.291802	1547.24	-2193.01
4	GUIDE	472527720	6.99	722	-0.216	0.071	0.074	0.128	331.460205	45.112509	2205.42	1998.84
5	GUIDE	472665256	9.02	722	0.040	-0.101	0.081	0.132	332.808125	46.195041	-1761.18	-1304.44
6	GUIDE	472659832	9.46	721	-0.022	-0.044	0.094	0.151	332.780399	46.098139	-1645.79	-974.52
7	BAD	472654568	9.47	515	0.445	-0.161	0.173	0.233	332.194449	45.063576	387.90	2469.94

## 2.4 Star Slots

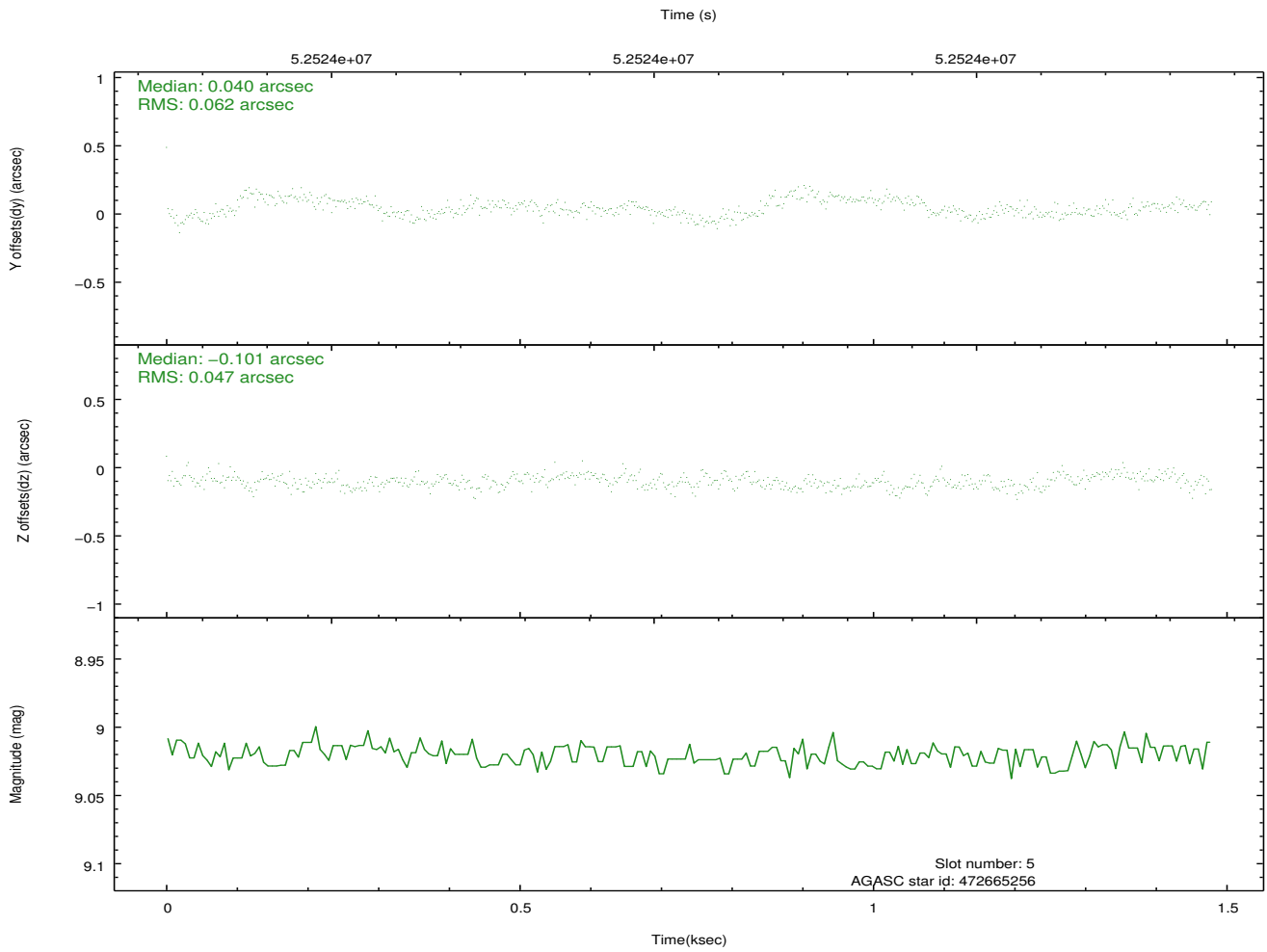
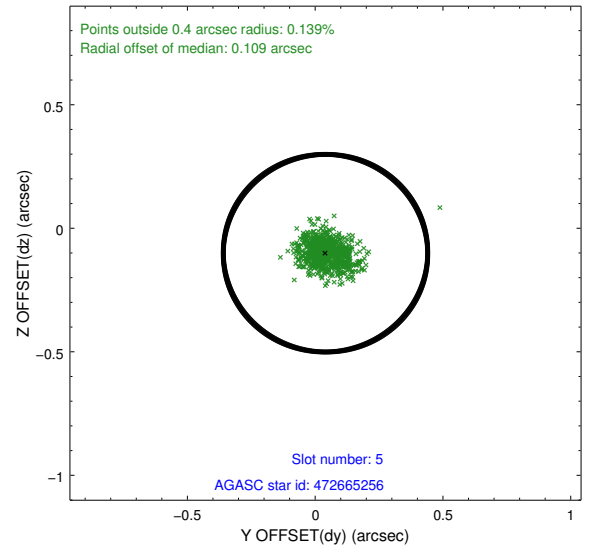
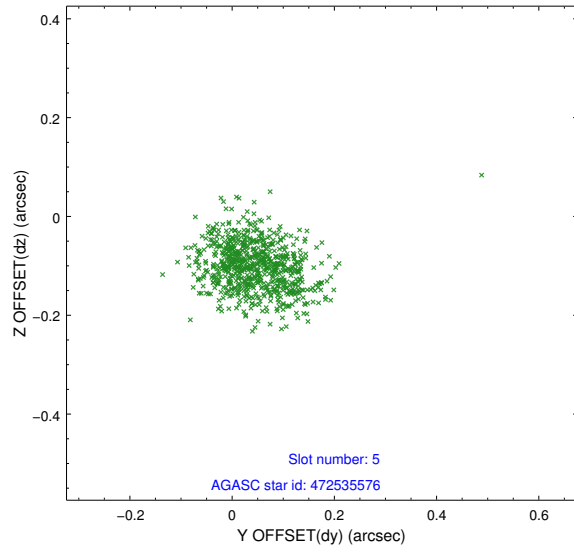
### 2.4.1 Slot 3



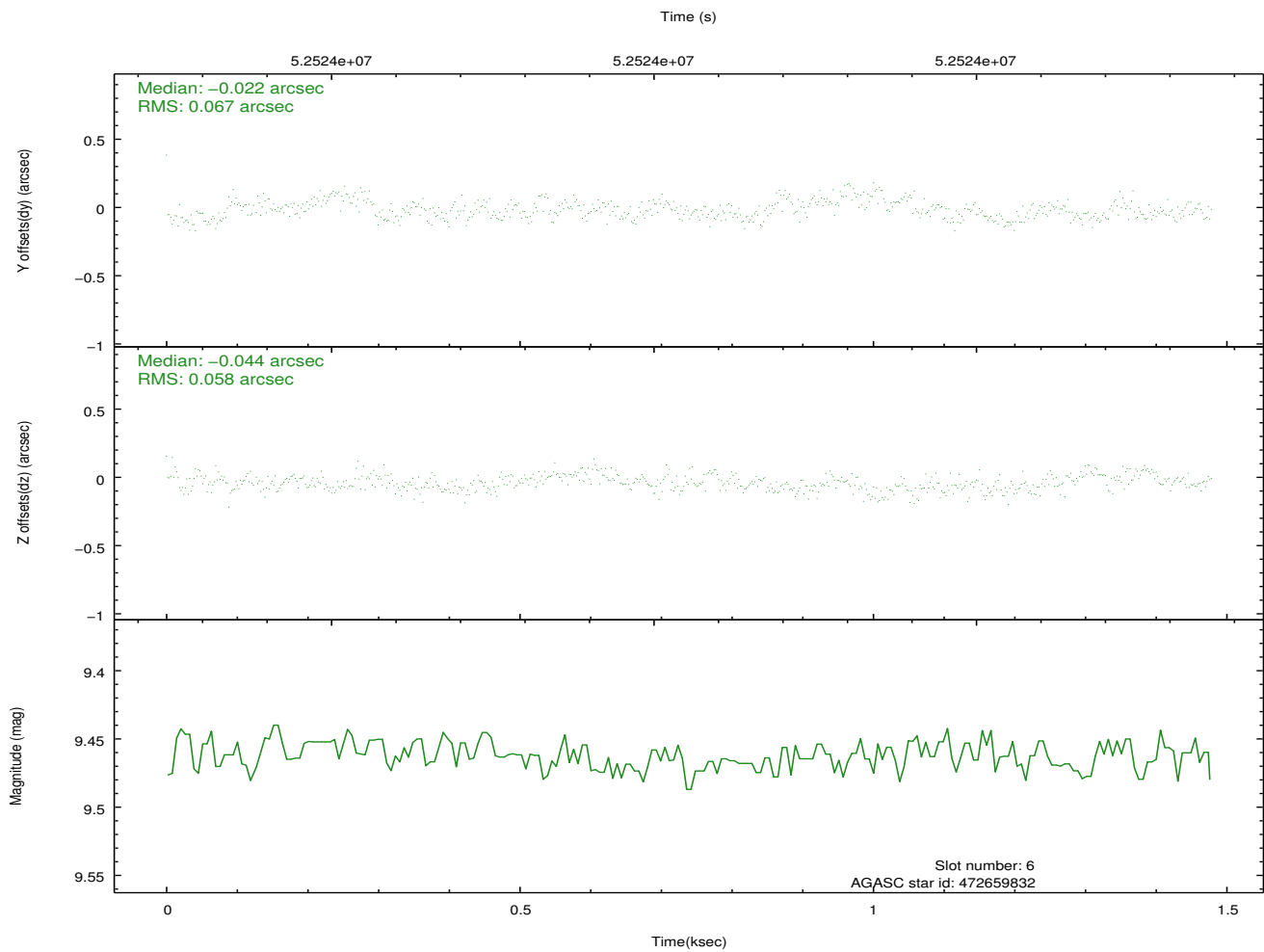
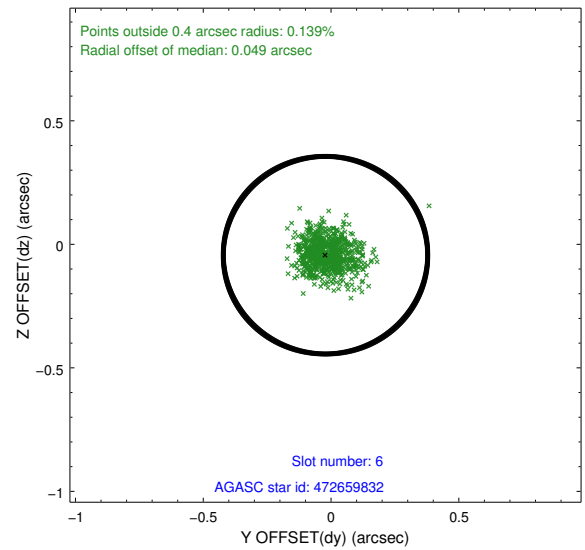
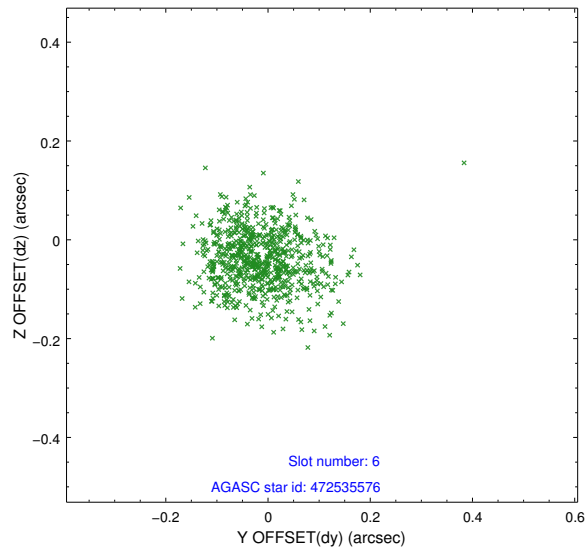
## 2.4.2 Slot 4



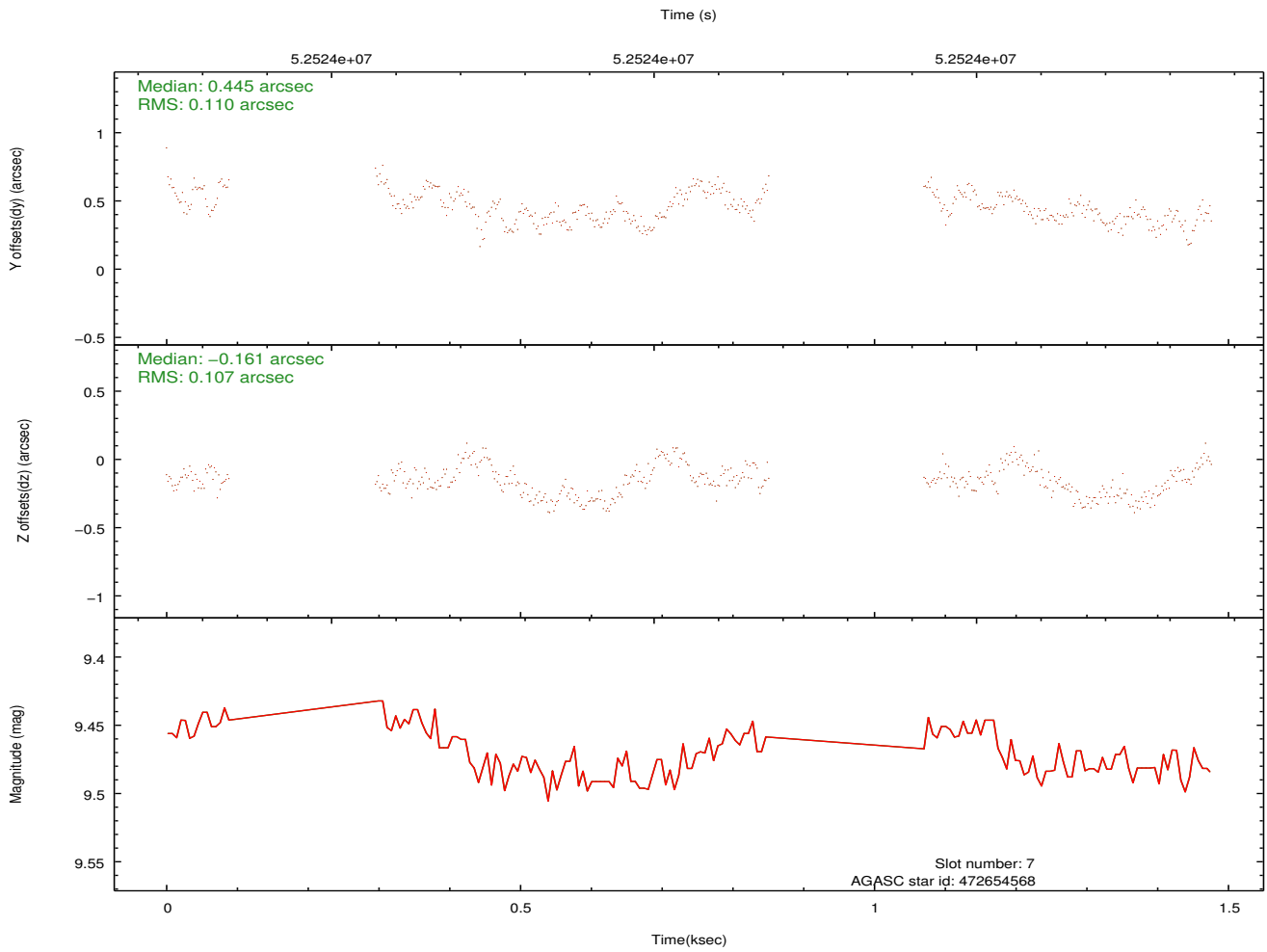
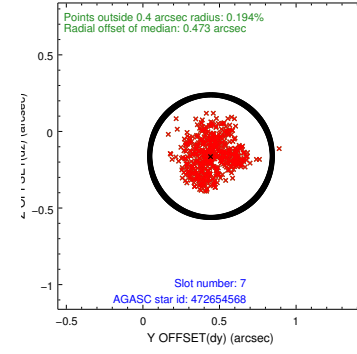
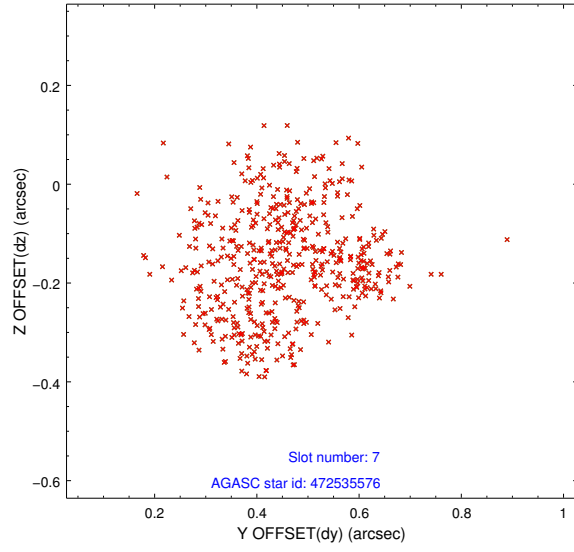
### 2.4.3 Slot 5



## 2.4.4 Slot 6

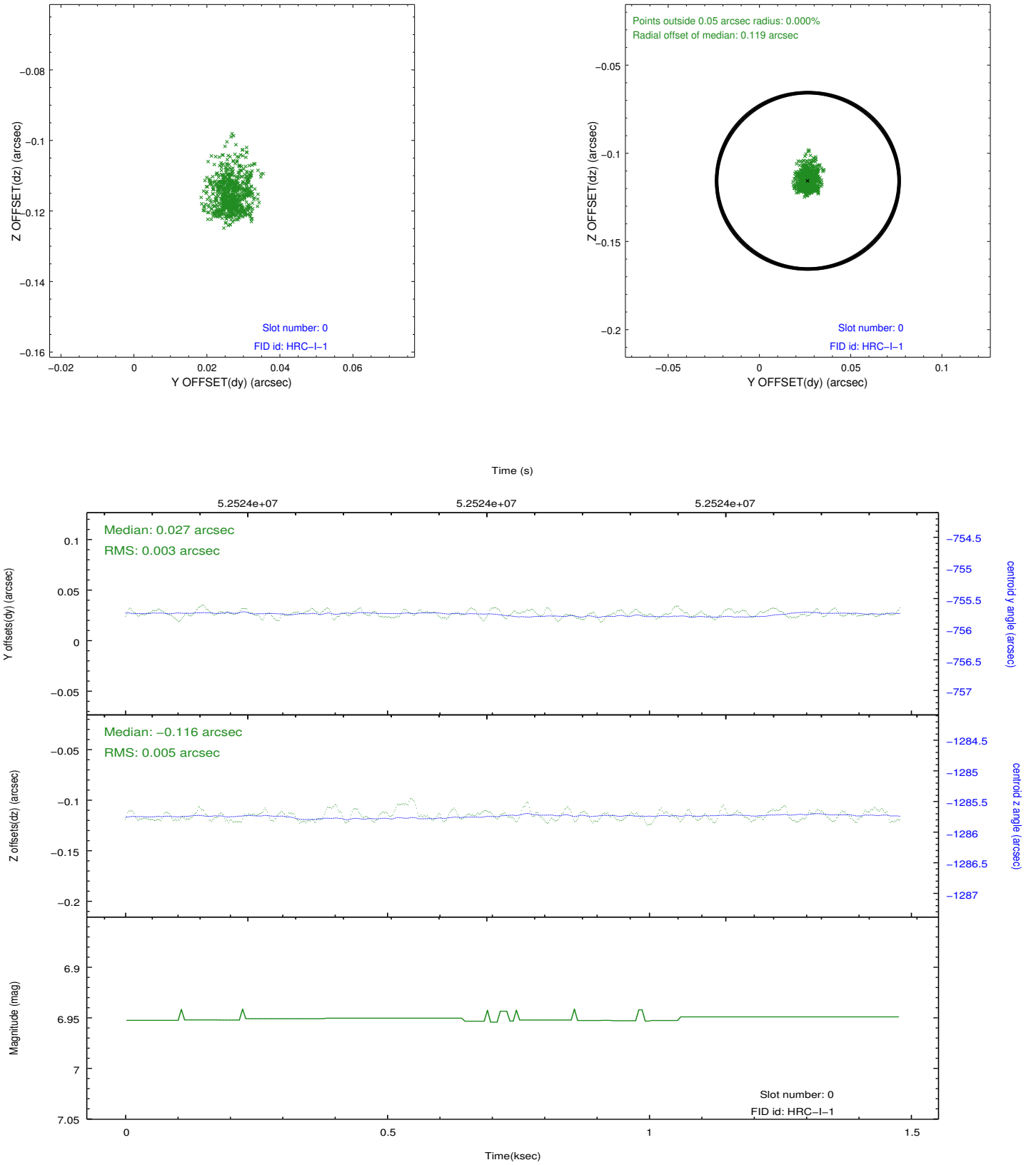


## 2.4.5 Slot 7

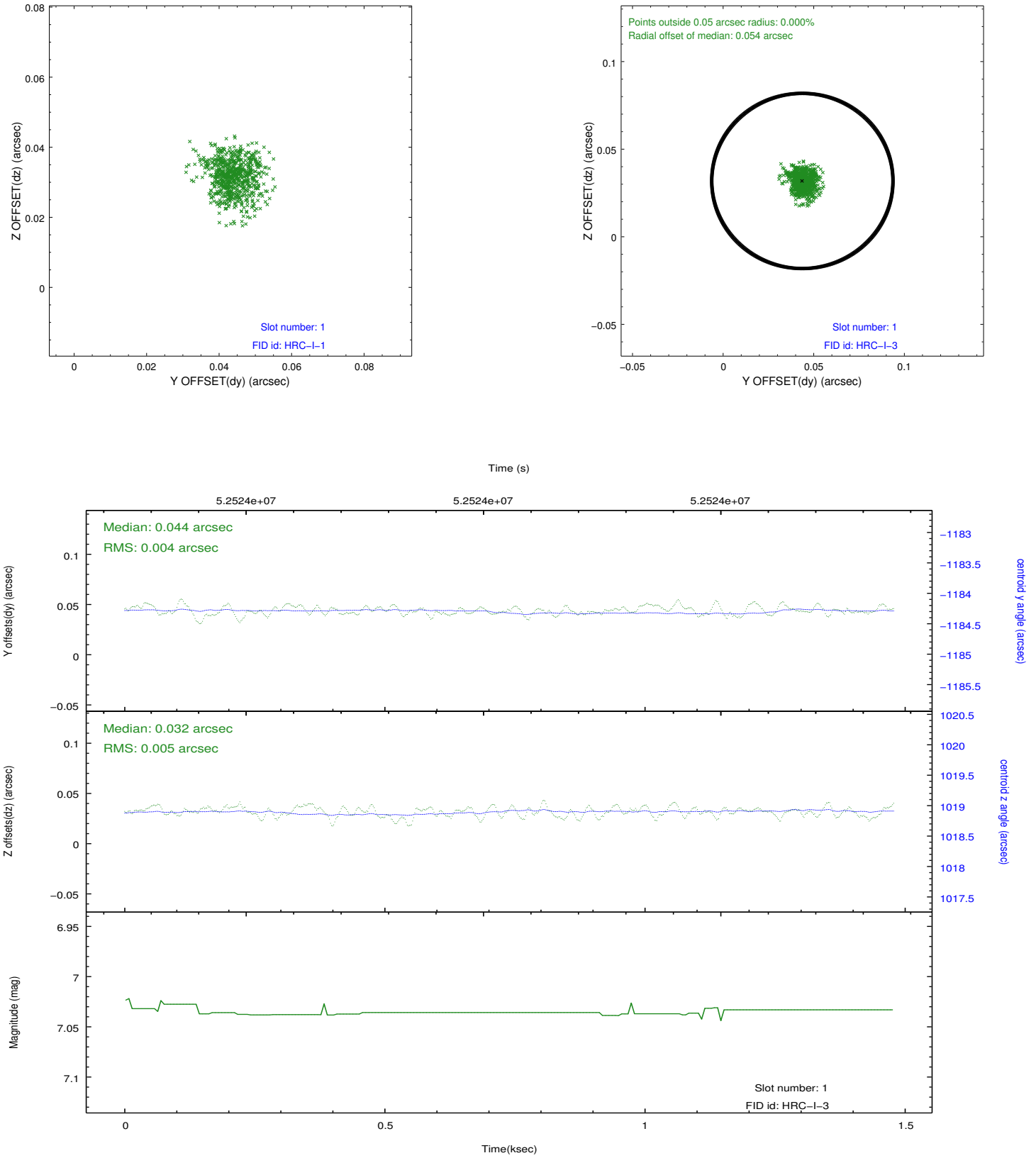


## 2.5 FID Slots

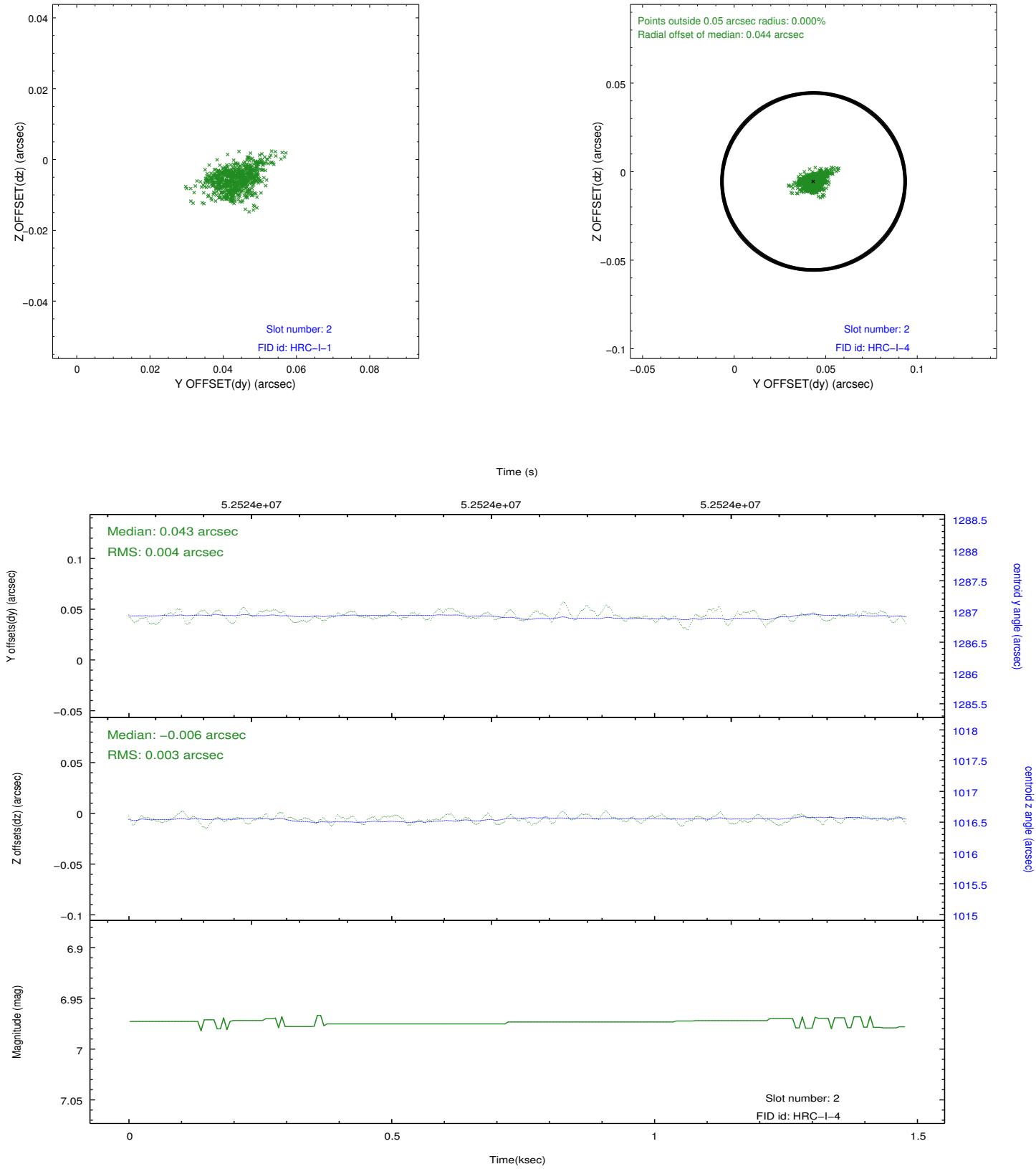
### 2.5.1 Slot 0



## 2.5.2 Slot 1

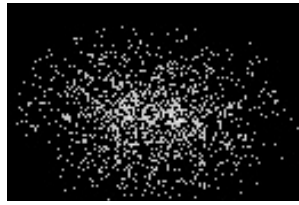


2.5.3 Slot 2



### 3 Point Sources

13.14 arcmin



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.792

## A.2 Comments

HRC-I series of focus observations around the revised focus. HRC using manual commanding to revised focus position (-900) while maneuvering for the observation.

=====

Charge time for this observation remains at previous value of 0.792

ksec,

although with the current processing the charge time would have been

0.794 ksec.

=====

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one fid light or guide star from the solution.