

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4310 - L2 Version 4  
Chandra X-Ray Center

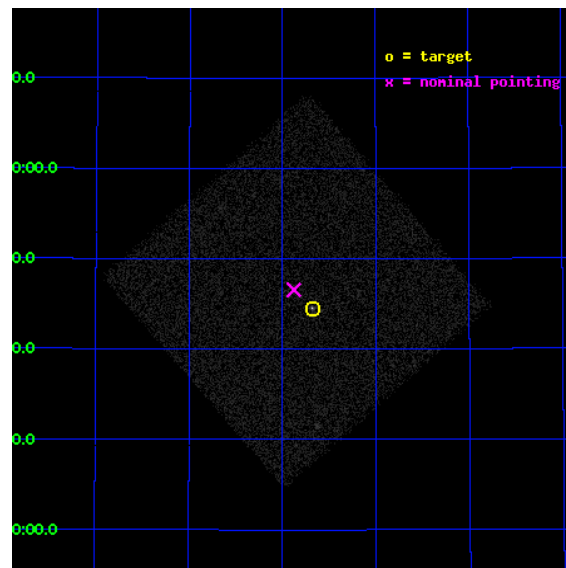
L2 Processing Date : Oct 23 2012

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# 1 Front

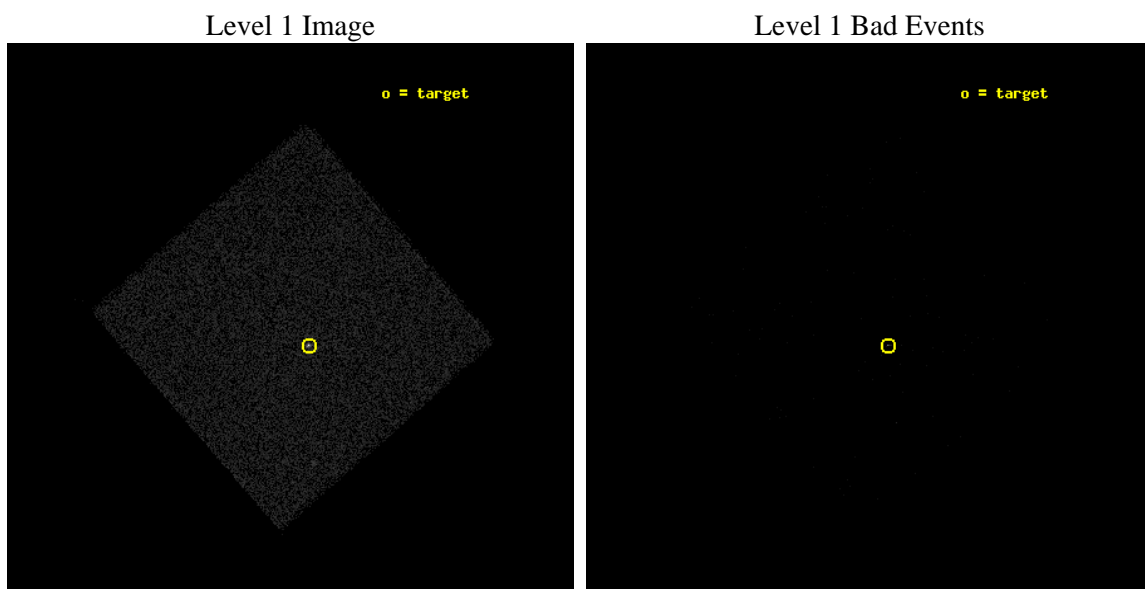
seq_num	290270	Sequence number
obs_id	4310	Observation id
title	AO4 CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-I GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.21947705384	Nominal RA [deg]
dec_nom	45.776261322919	Nominal Dec [deg]
roll_nom	3.9308950724591	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1185.6687998772	[s]
livetime	1179.125316495	Ontime multiplied by DTCOR
l2events	36832	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	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1185.6687998772	[s]
caldbver	4.5.2	&#160	l1events	63965	Number of level 1 events
date	2012-10-23T09:30:33	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

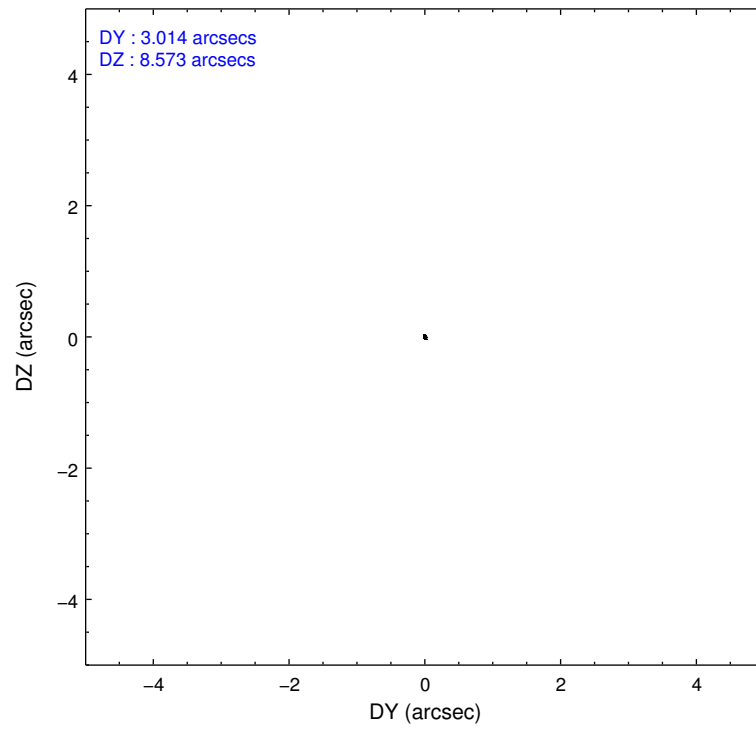
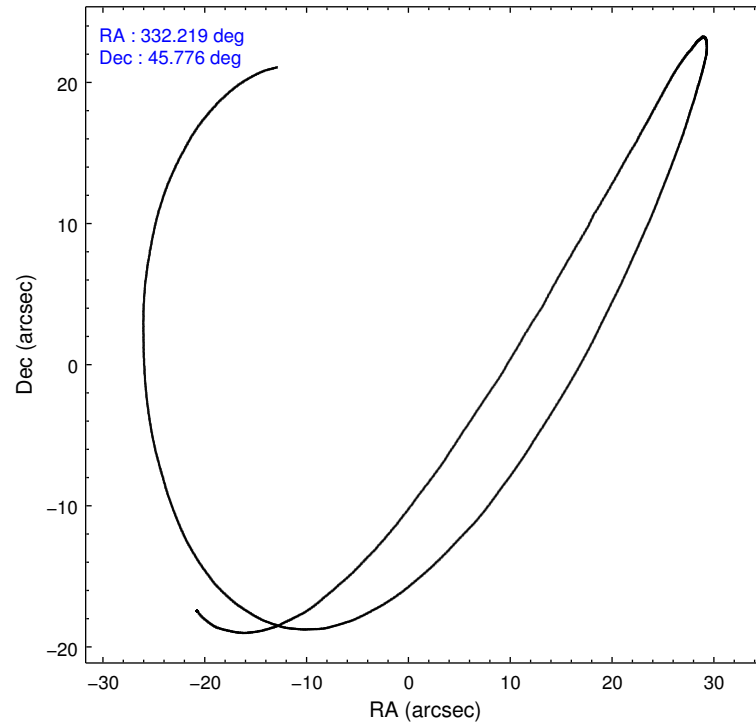
	<b>segment 0</b>
level 1 events	63965
rejected events	10963
rejected %	17%

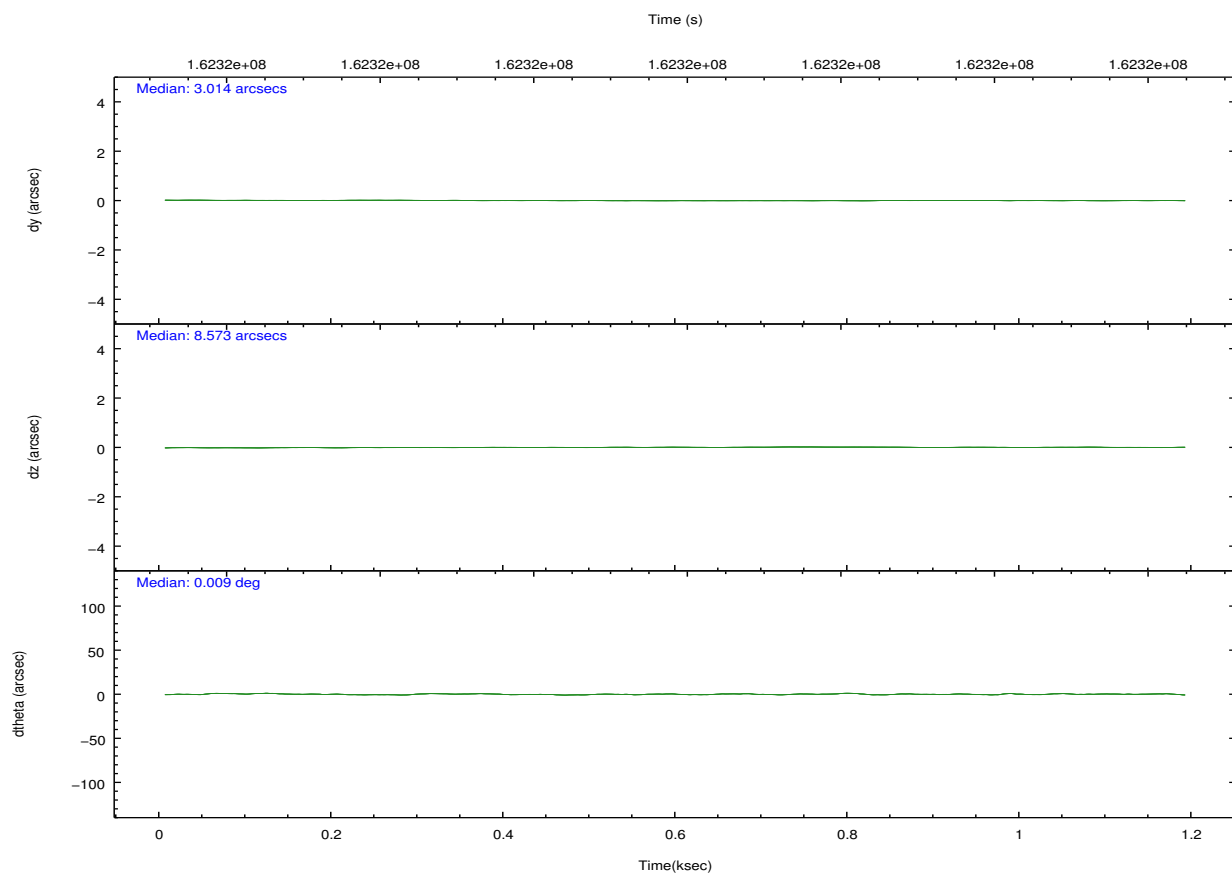
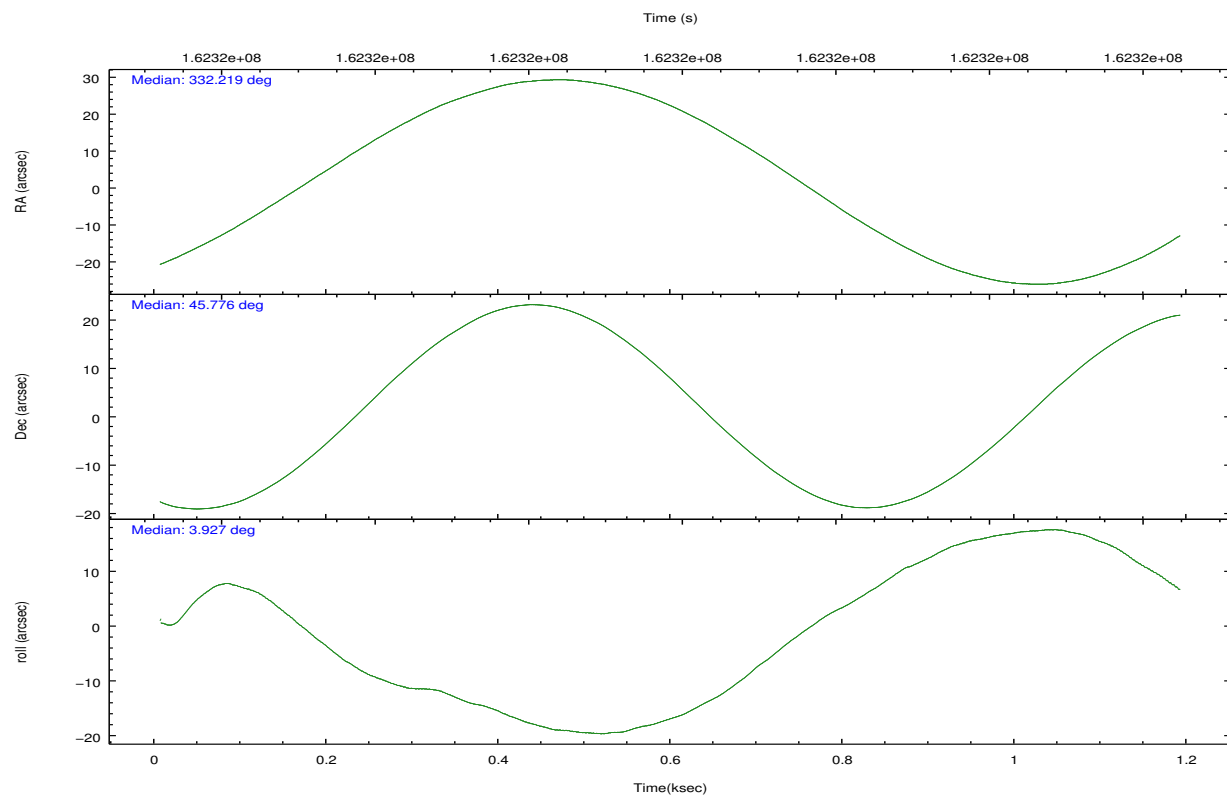
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.188216	332.219477053843
[deg] Pointing Dec	45.760917	45.77626132291938
[deg] Pointing Roll	4.048864	3.930895072459057
[s] Window start time (MET)	161654464.184000	161654464.184000
[s] Window stop time (MET)	165369664.184000	165369664.184000
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	162323778.184000	162323401.70831
Observation start date	2003-02-22T17:55:14	2003-02-22T17:50:01
[s] Observation end time (MET)	162324778.184000	162325416.8584
Observation end date	2003-02-22T18:11:54	2003-02-22T18:23:36

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



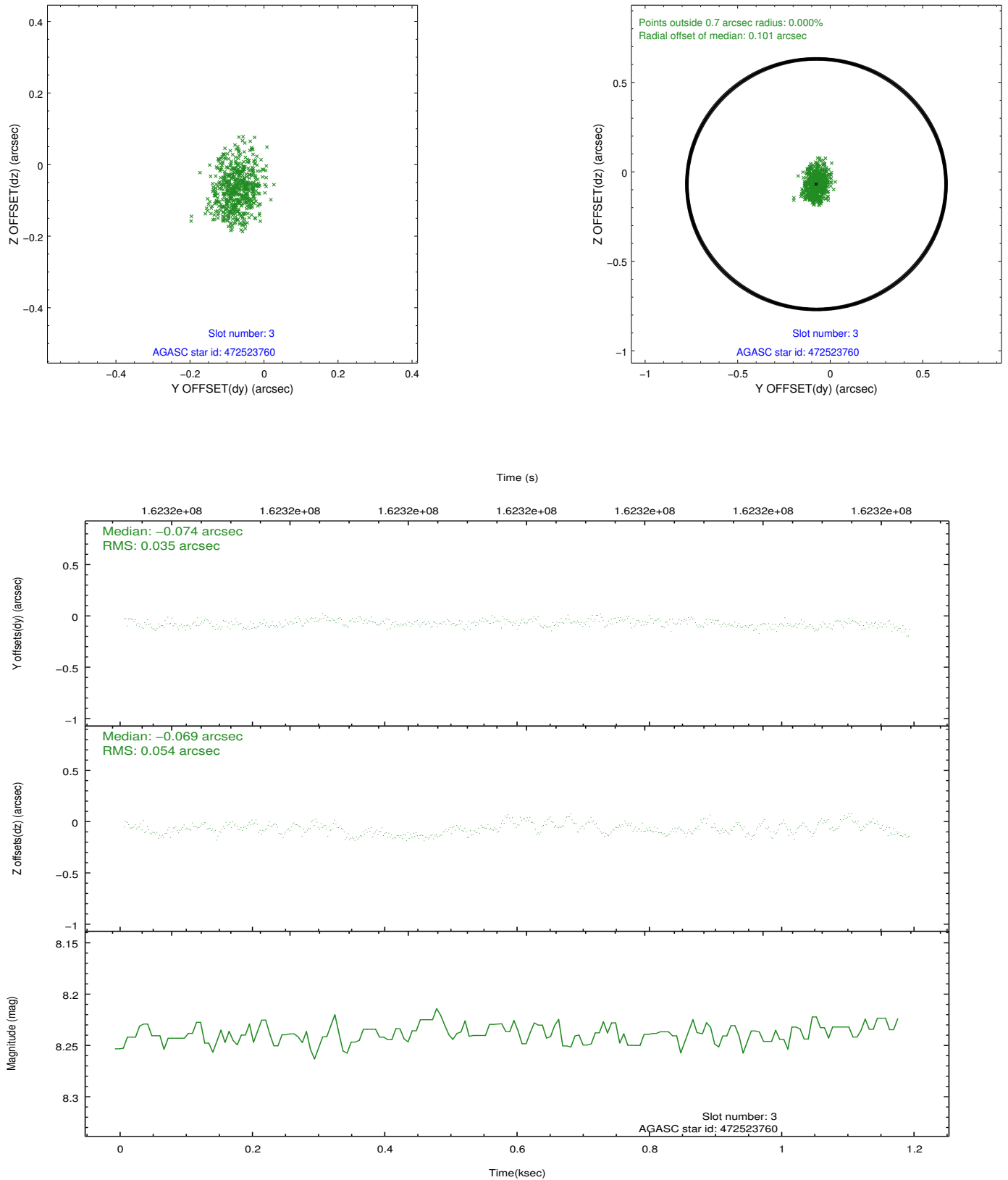


### Slot Statistics

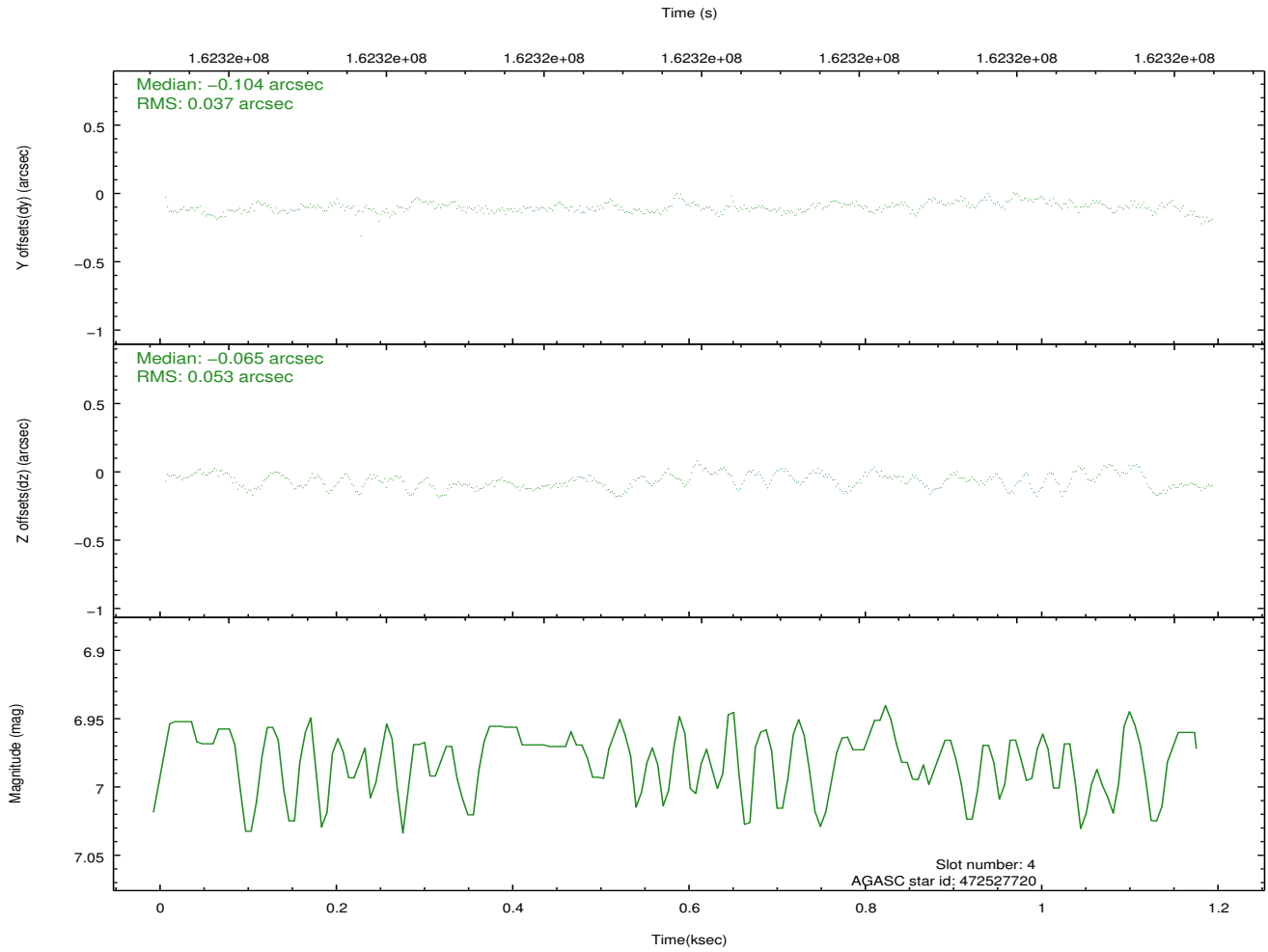
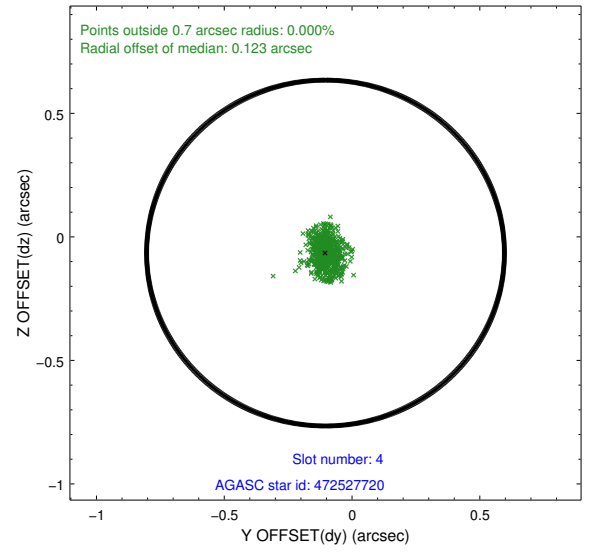
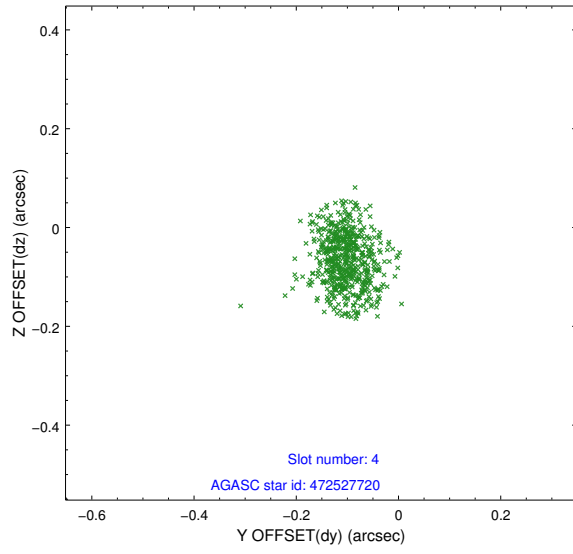
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	290	0.027	0.066	0.006	0.010	0.000000	0.000000	-758.46	-1296.44
1	FID	HRC-I-2	7.01	290	0.073	-0.074	0.004	0.007	0.000000	0.000000	851.60	-1302.63
2	FID	HRC-I-3	7.06	290	0.019	-0.081	0.005	0.011	0.000000	0.000000	-1184.02	1003.48
3	GUIDE	472523760	8.24	579	-0.074	-0.069	0.067	0.107	331.645363	45.403260	-1457.97	-1181.91
4	GUIDE	472527720	6.98	580	-0.104	-0.065	0.069	0.111	331.460205	45.112509	-2010.35	-2190.64
5	GUIDE	472659832	9.45	580	0.048	0.080	0.105	0.159	332.780399	46.098139	1558.57	1109.68
6	GUIDE	472533912	9.17	580	-0.037	0.007	0.152	0.295	331.791136	46.368695	-825.46	2257.70
7	GUIDE	472655152	9.43	576	0.162	0.012	0.116	0.270	332.504239	45.862991	816.34	317.43

## 2.4 Star Slots

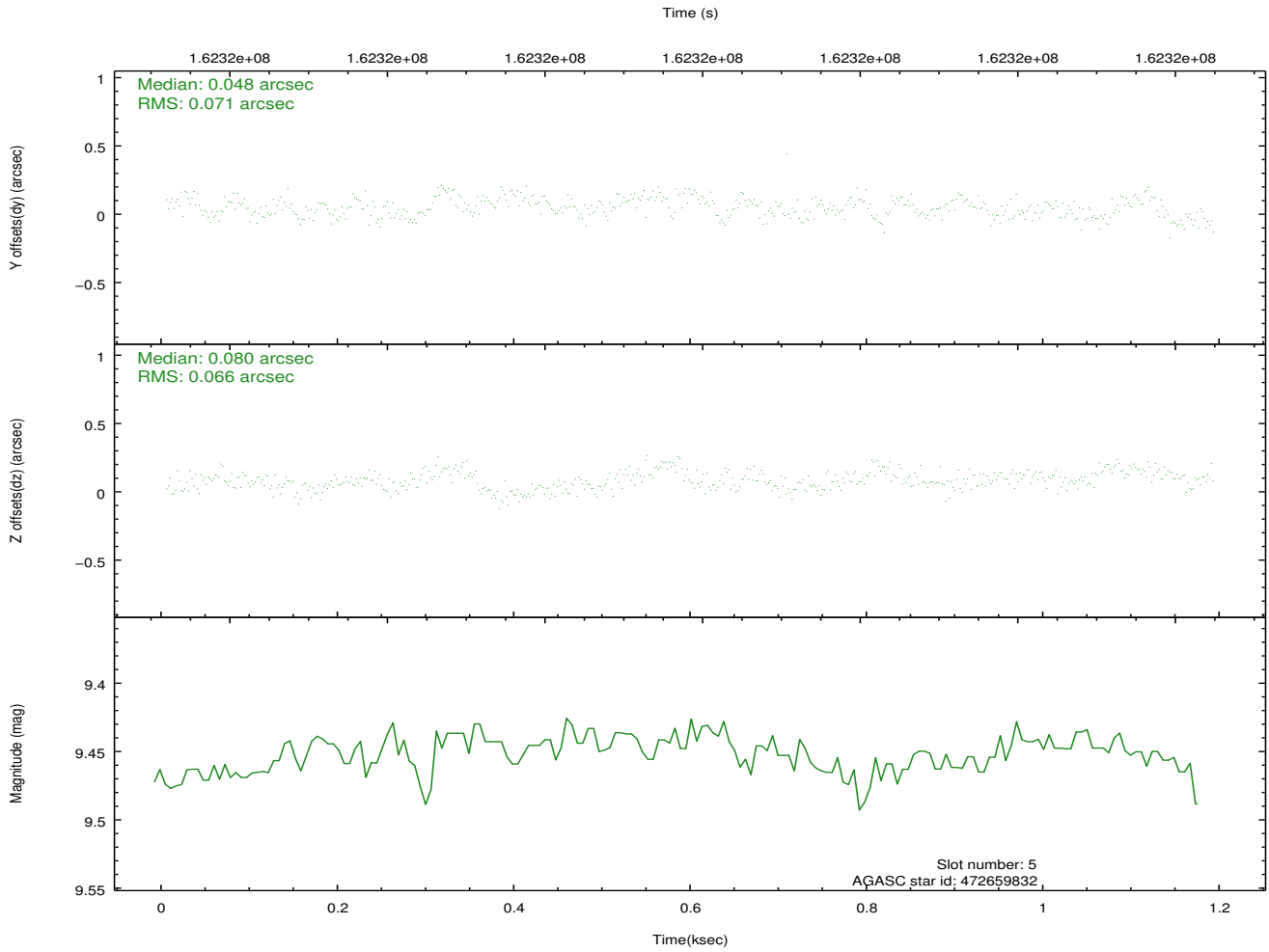
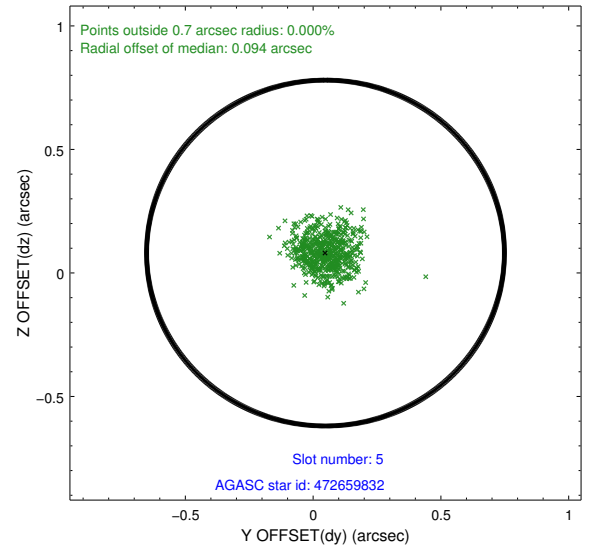
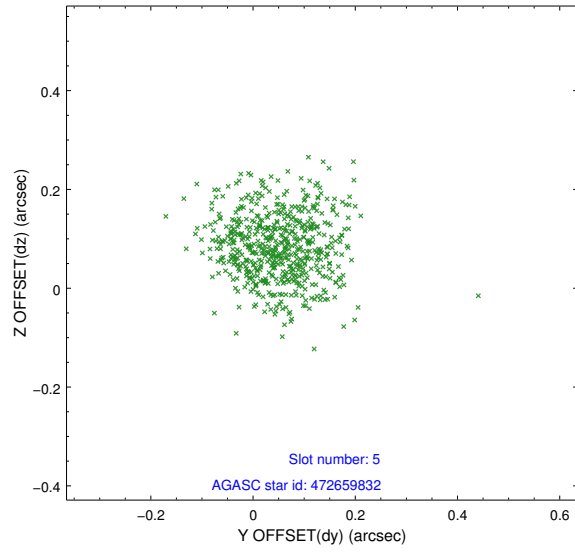
### 2.4.1 Slot 3



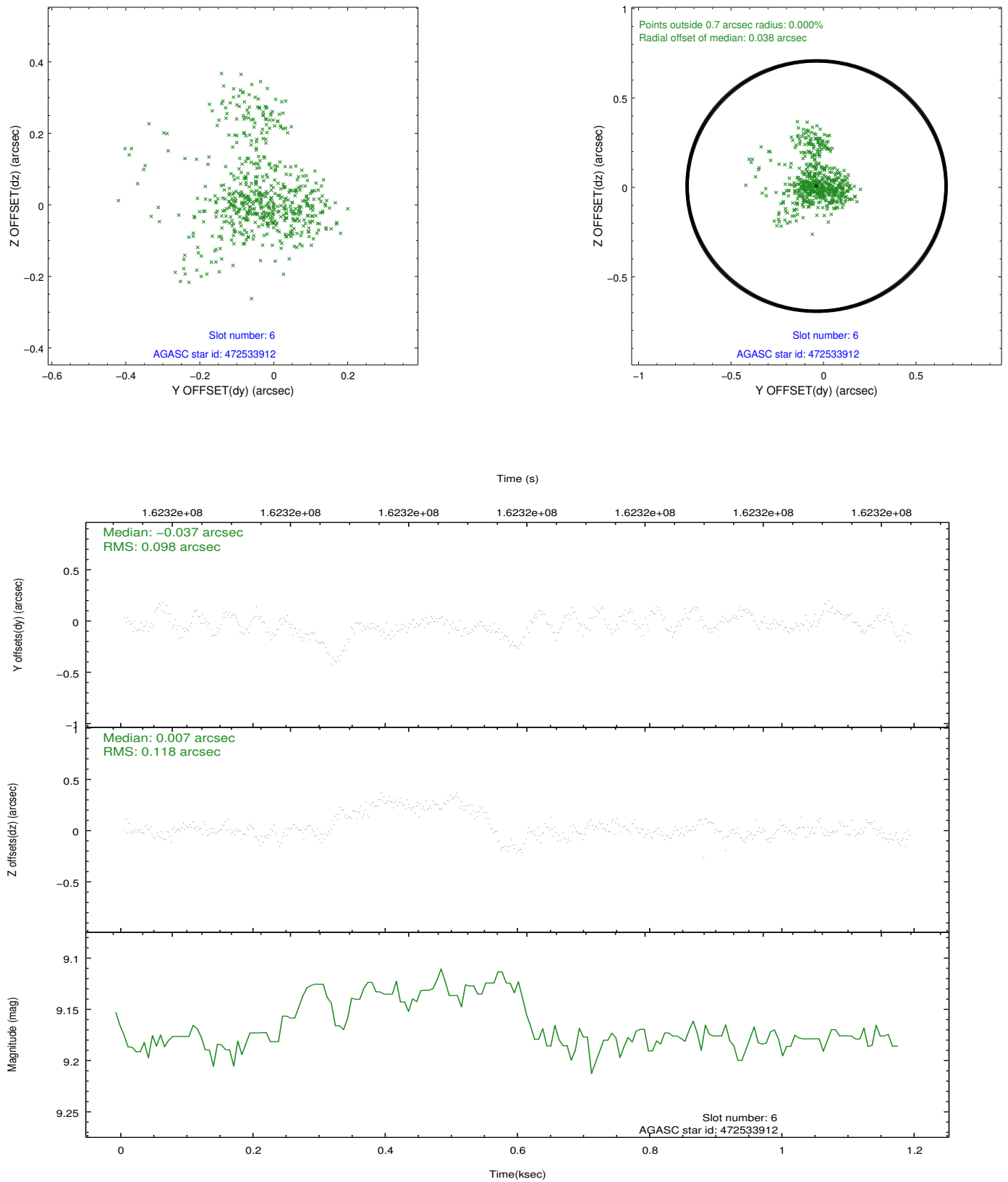
## 2.4.2 Slot 4



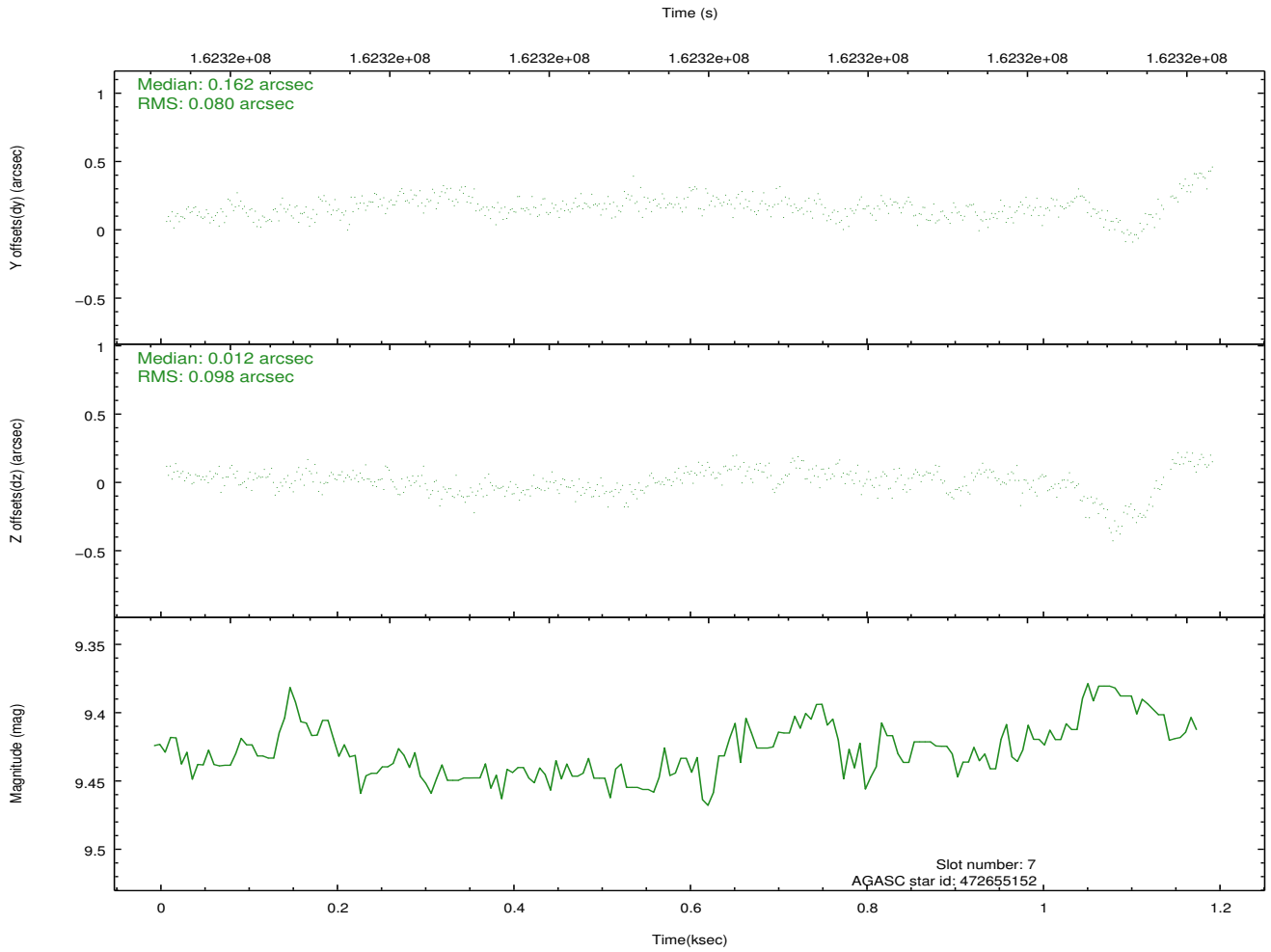
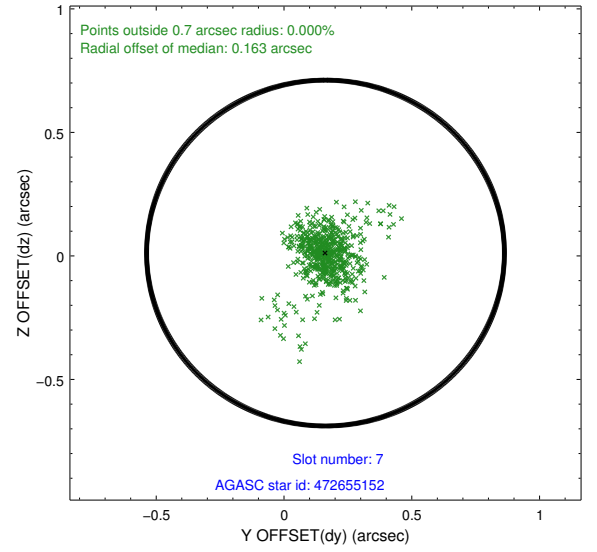
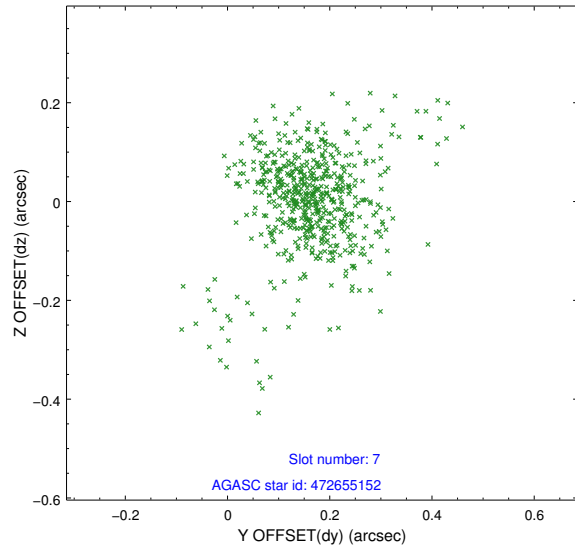
### 2.4.3 Slot 5



## 2.4.4 Slot 6

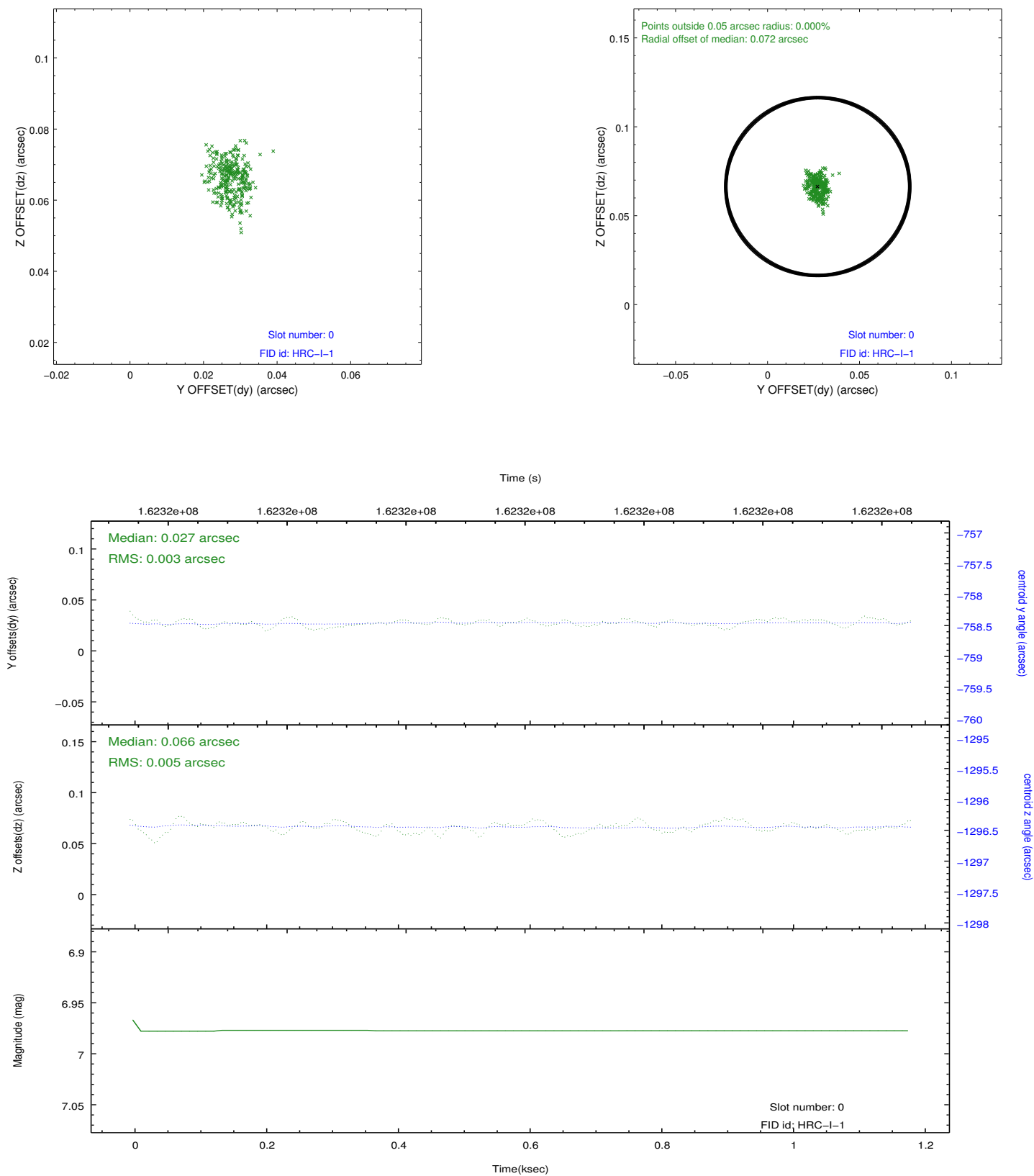


## 2.4.5 Slot 7

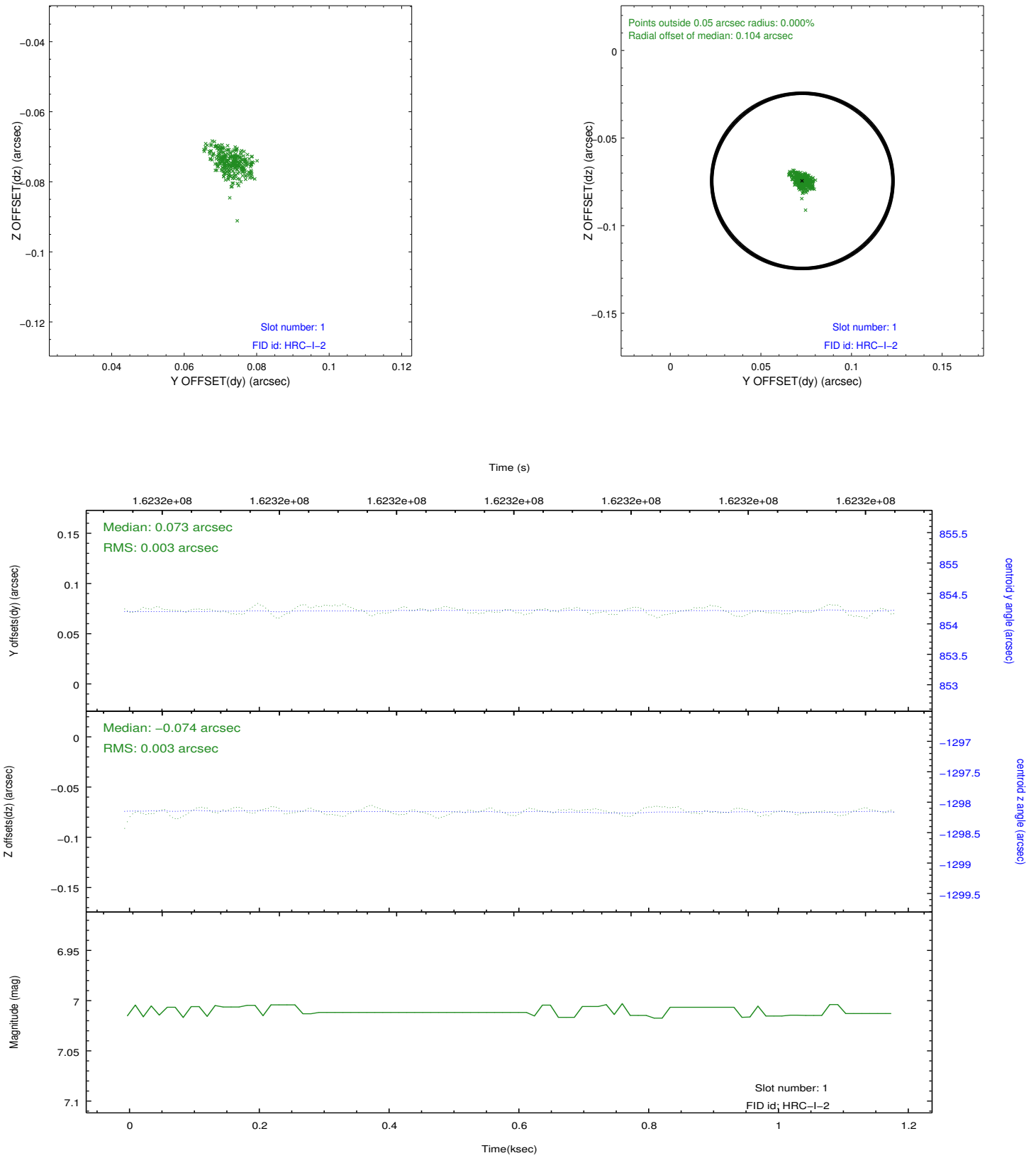


## 2.5 FID Slots

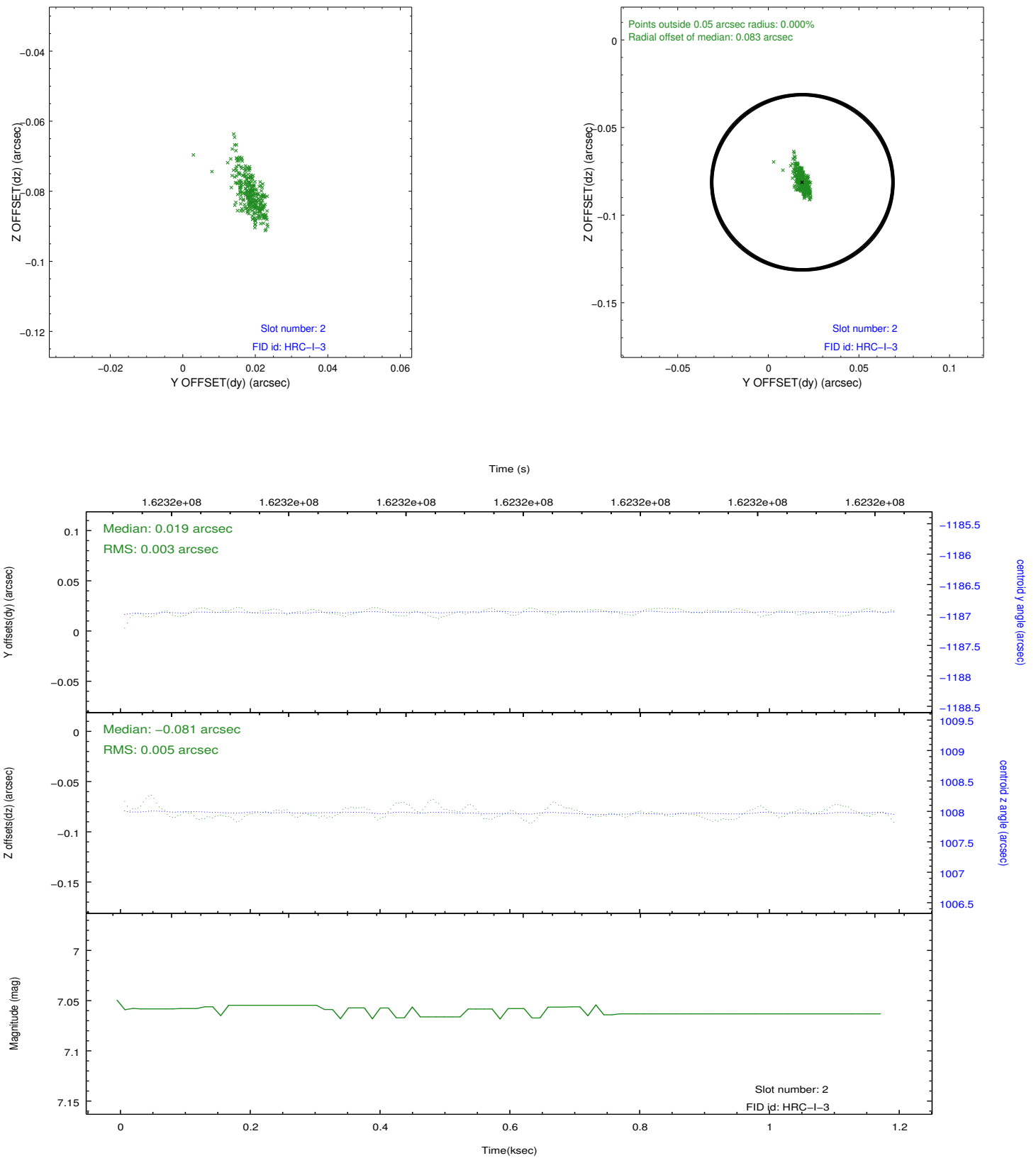
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.185

### A.2 Comments

Window constraint met.