

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6914 - L2 Version 2  
Chandra X-Ray Center

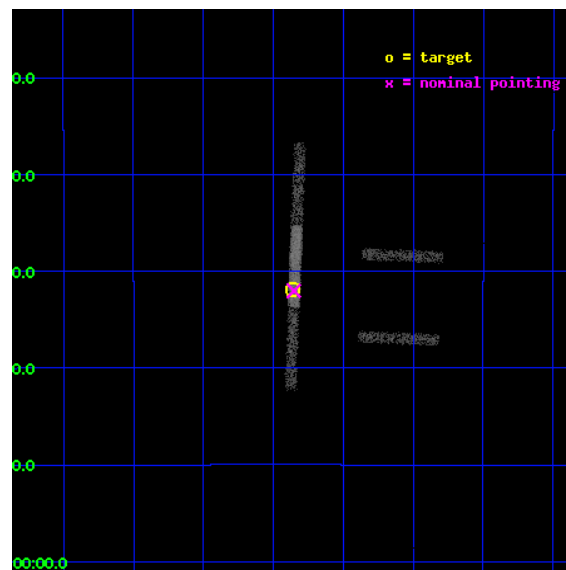
L2 Processing Date : Mar 30 2012

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# 1 Front

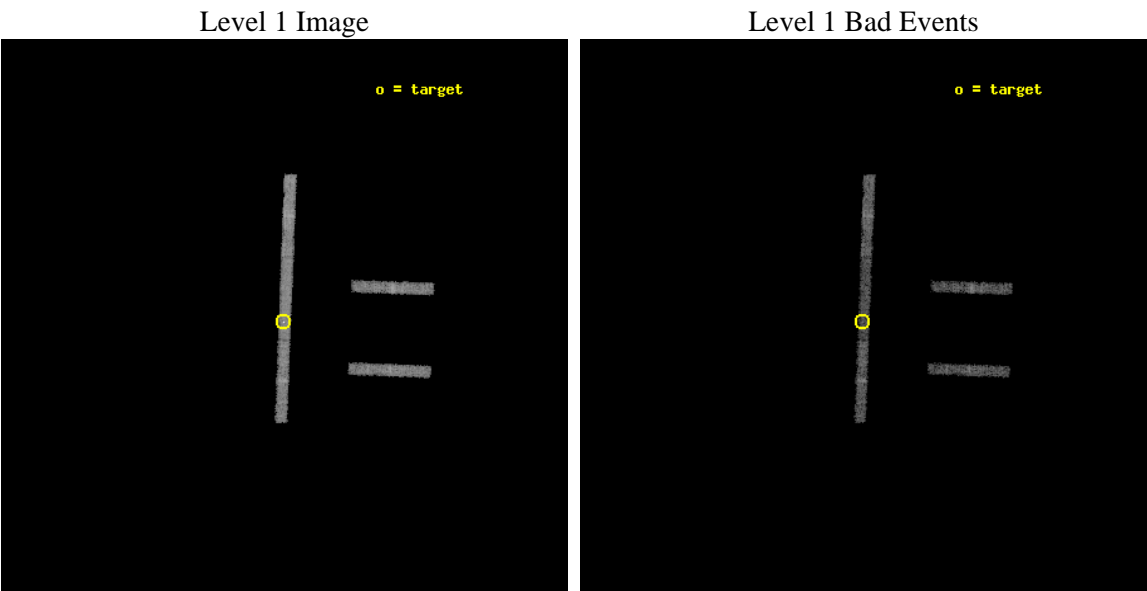
seq_num	701329	Sequence number
obs_id	6914	Observation id
title	Studying the Spatial Structures of the Optical and X-ray Emission Regions of Quasars by Monitoring Microlensing Events	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RXJ 1131-1231	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	172.965	Observer's specified target RA [deg]
dec_targ	-12.5325	Observer's specified target Dec [deg]
ra_nom	172.96332096424	Nominal RA [deg]
dec_nom	-12.533856839116	Nominal Dec [deg]
roll_nom	272.22205673485	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5186.2999116778	Sum of GTIs [s]
livetime	4899.0741905626	Livetime [s]
ontime2	5186.2999116778	Sum of GTIs [s]
ontime3	5186.2999116778	Sum of GTIs [s]
ontime6	5186.2999116778	Sum of GTIs [s]
ontime7	5186.2999116778	Sum of GTIs [s]
ontime8	5186.2999116778	Sum of GTIs [s]
l2events	7442	Number of level 2 events



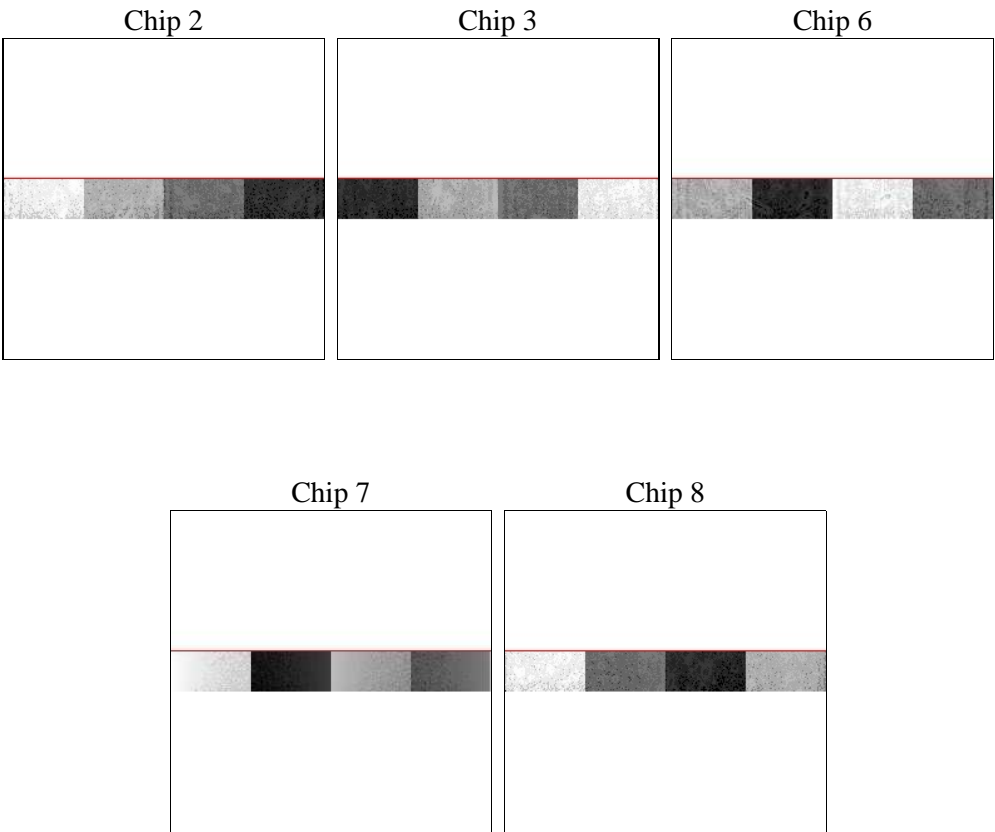
# 2 OBI

## 2.1 OBI

### 2.1.1 Images



### 2.1.2 Bias



Chip 7



Chip 8



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5186.2999116778	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	5186.2999116778	Sum of GTIs [s]
date	2012-03-30T04:54:11	Date and time of file creation	ontime3	5186.2999116778	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5186.2999116778	Sum of GTIs [s]
			ontime7	5186.2999116778	Sum of GTIs [s]
			ontime8	5186.2999116778	Sum of GTIs [s]
			l1events	48446	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	7620	8290	8847	11034	12655
rejected events	6794	7527	7983	6179	10767
rejected %	89%	90%	90%	55%	85%

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	332	304	358	842	630
	4%	3%	4%	7%	4%
grade 1 events	0	3	6	13	1
	0%	0%	0%	0%	0%
grade 2 events	177	151	164	1164	441
	2%	1%	1%	10%	3%
grade 3 events	145	145	146	642	270
	1%	1%	1%	5%	2%
grade 4 events	144	131	160	605	255
	1%	1%	1%	5%	2%
grade 5 events	247	322	317	925	394
	3%	3%	3%	8%	3%
grade 6 events	136	161	161	2225	669
	1%	1%	1%	20%	5%
grade 7 events	6439	7073	7535	4618	9995
	84%	85%	85%	41%	78%

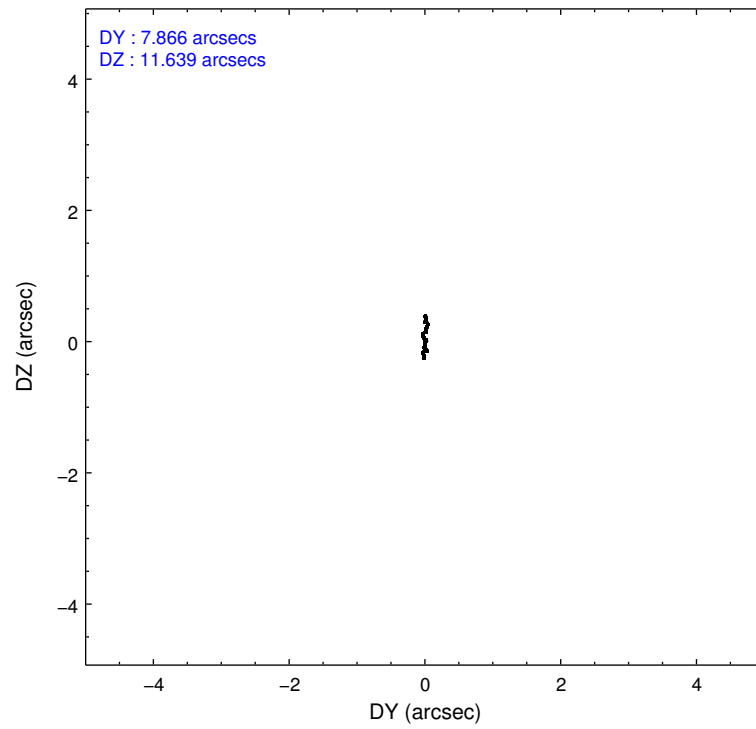
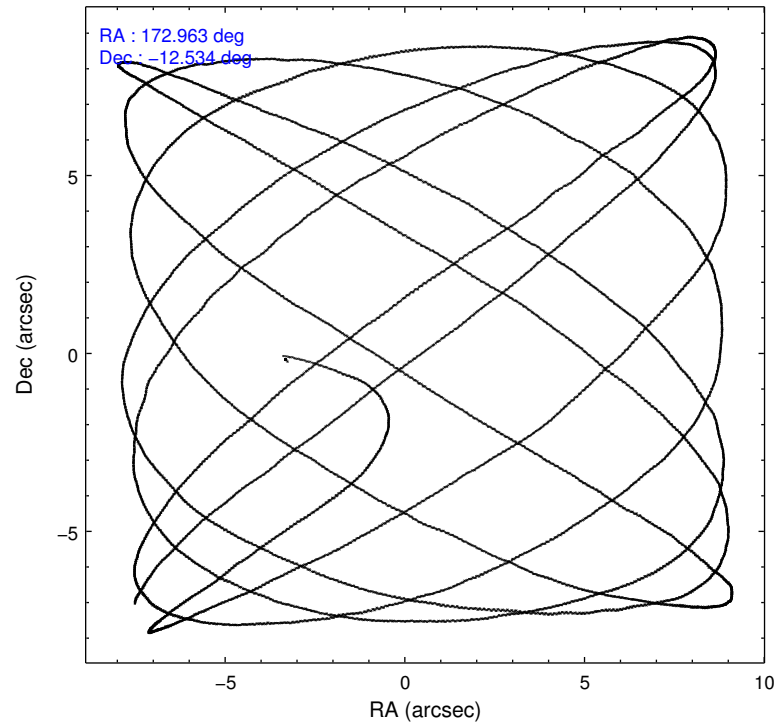


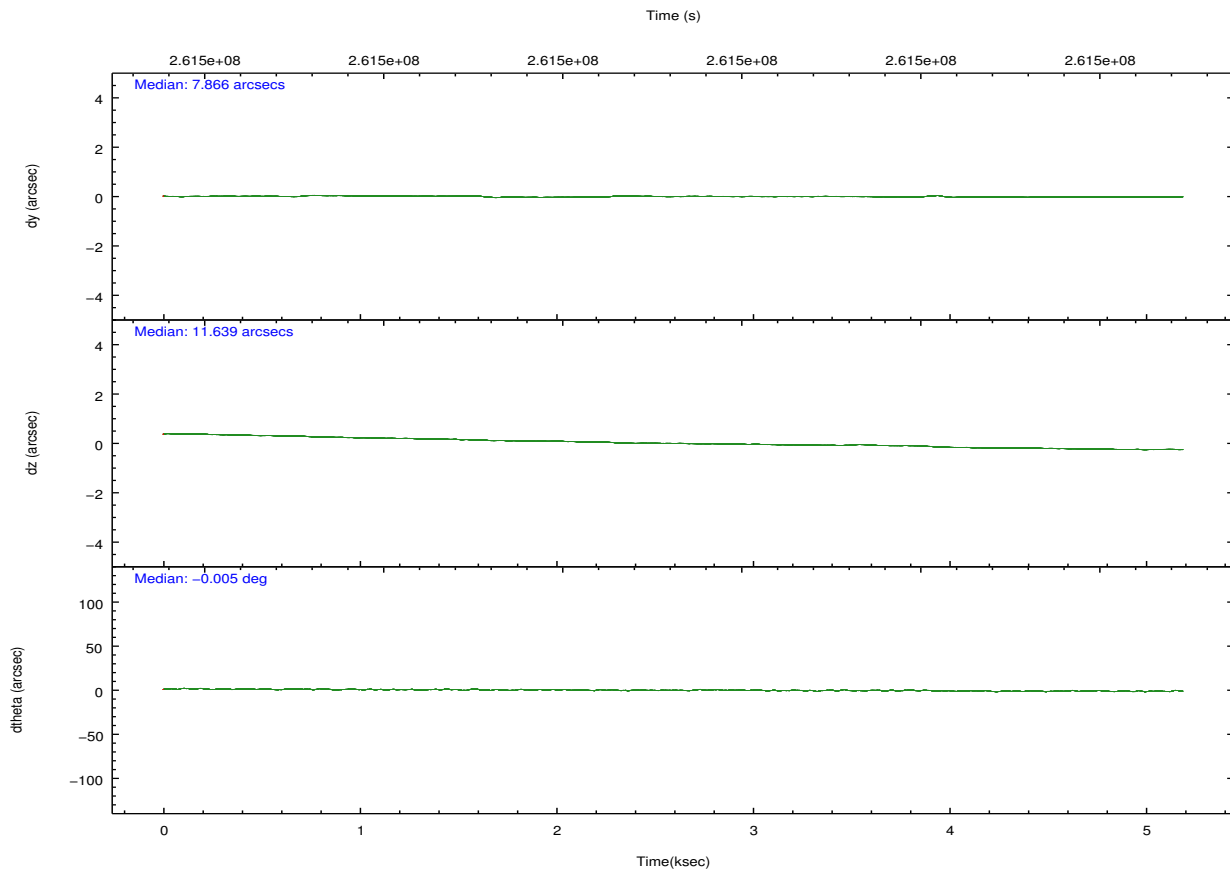
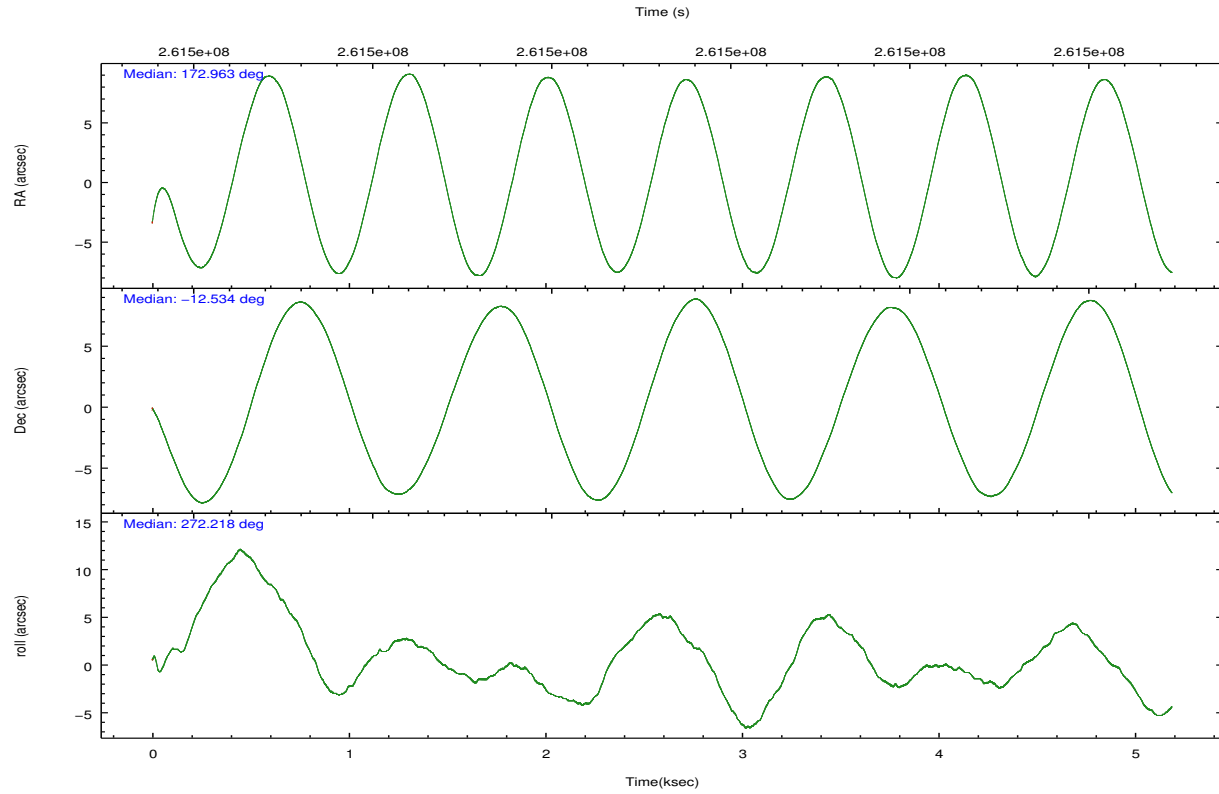
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	172.948145	172.9633209642373
[deg] Pointing Dec	-12.510965	-12.53385683911603
[deg] Pointing Roll	272.062126	272.2220567348484
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	261499209.184000	261498021.6858
Observation start date	2006-04-15T14:39:04	2006-04-15T14:20:21
[s] Observation end time (MET)	261504209.184000	261505157.22363
Observation end date	2006-04-15T16:02:24	2006-04-15T16:19:17
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.7

## 2.3 Aspect



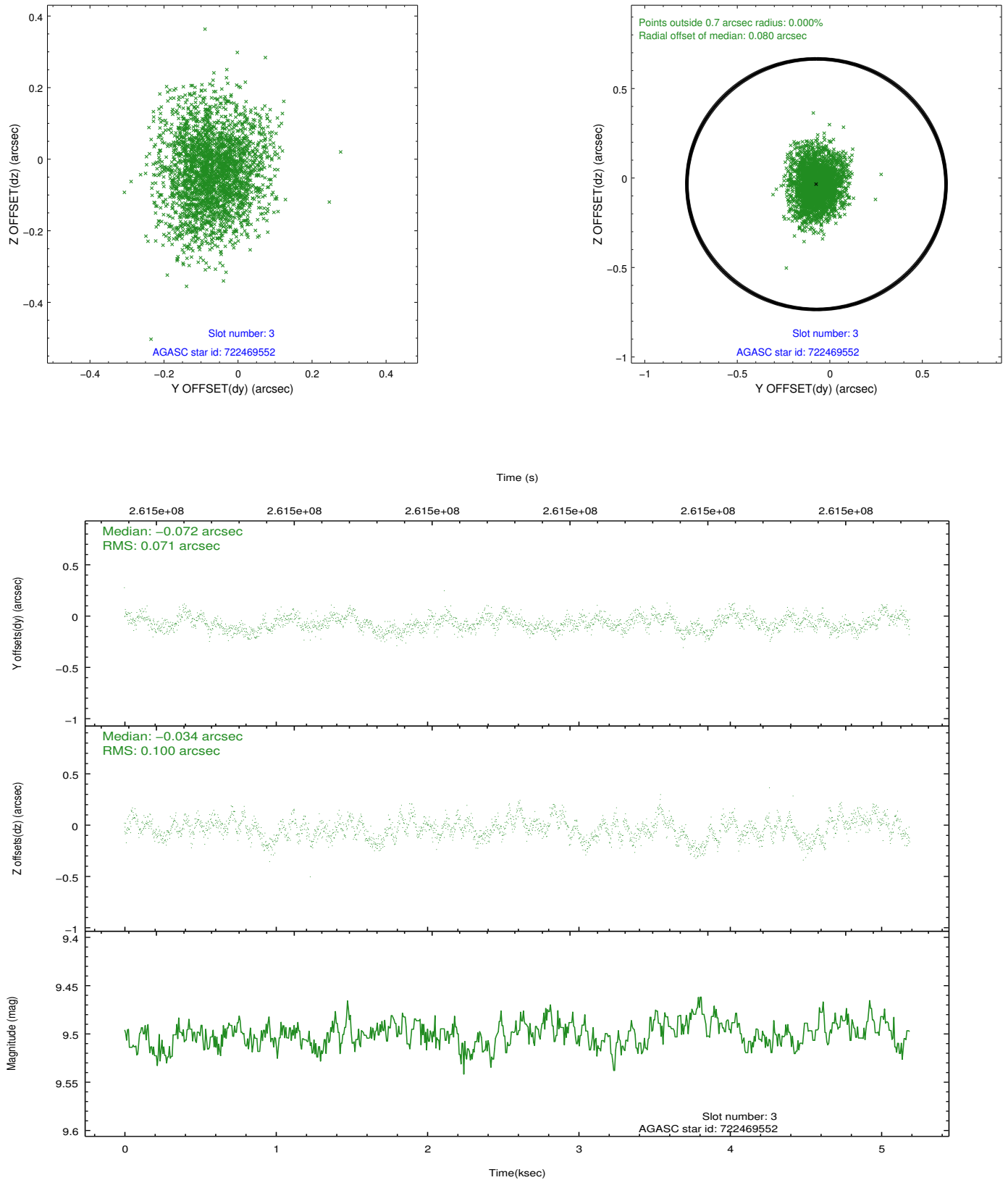


### Slot Statistics

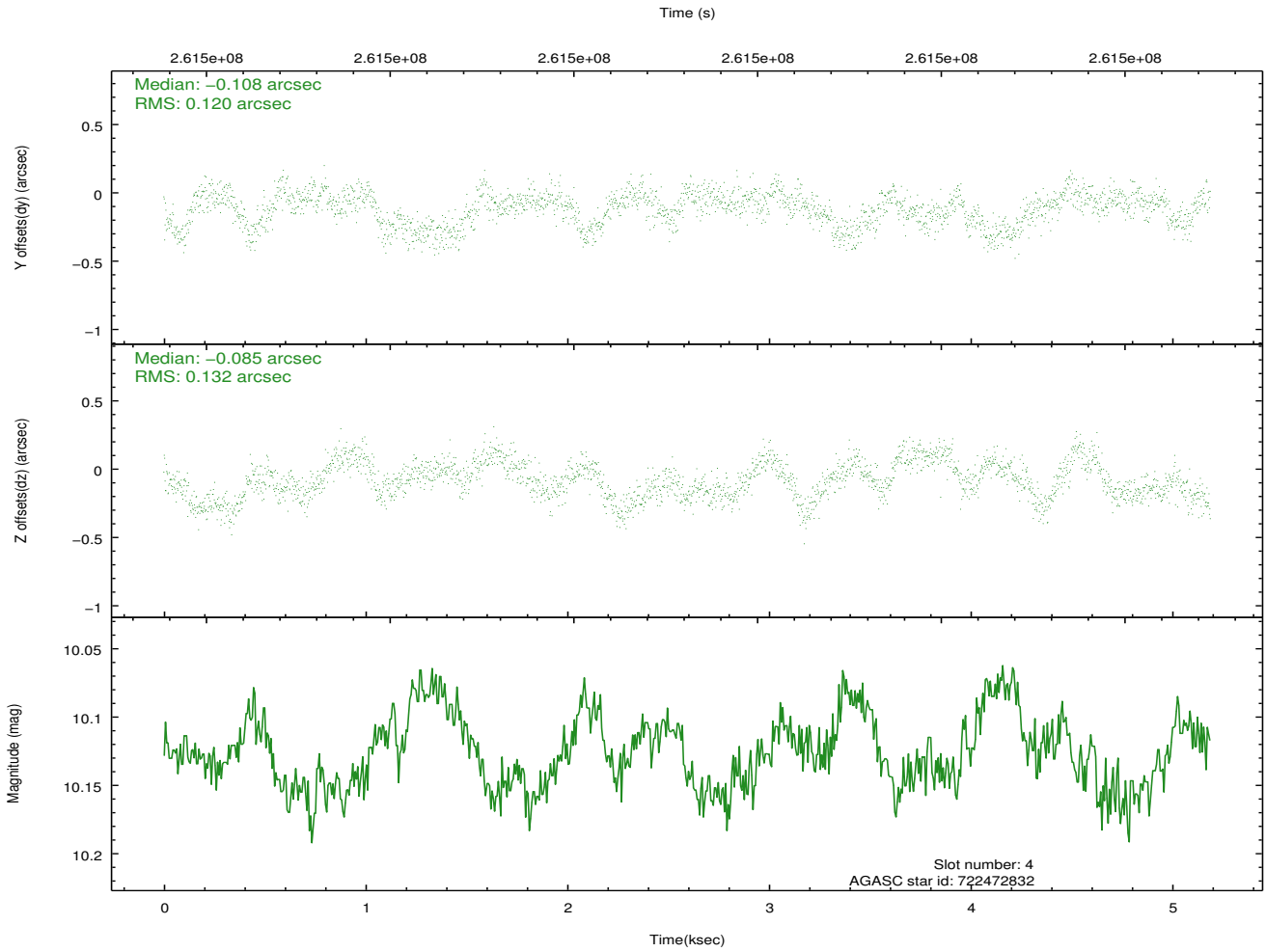
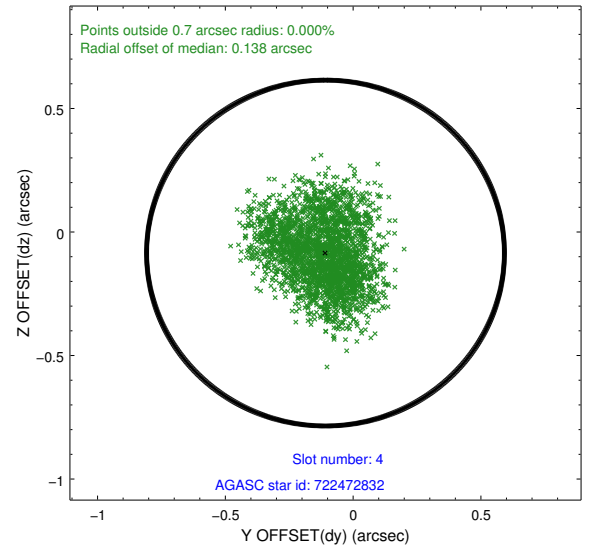
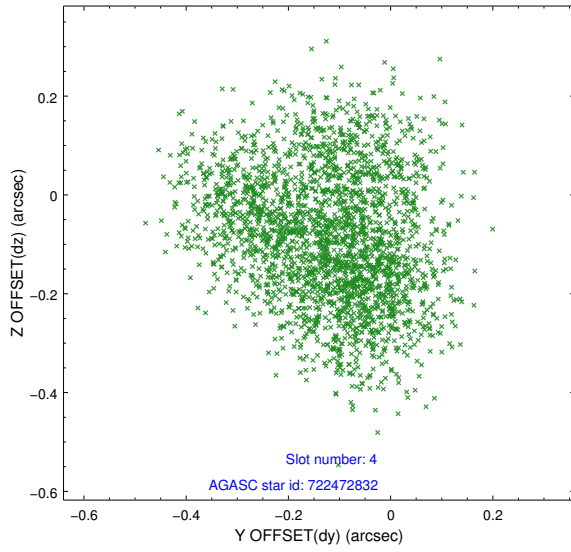
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1266	-0.023	-0.023	0.009	0.014	0.000000	0.000000	-760.65	-1732.94
1	FID	ACIS-S-4	7.21	1266	0.098	0.017	0.006	0.011	0.000000	0.000000	2152.20	174.40
2	FID	ACIS-S-5	7.24	1266	-0.106	0.014	0.008	0.013	0.000000	0.000000	-1812.09	169.36
3	GUIDE	722469552	9.50	2531	-0.072	-0.034	0.130	0.212	172.271393	-12.124699	-1472.11	-2330.40
4	GUIDE	722472832	10.13	2529	-0.108	-0.085	0.196	0.296	173.078970	-12.015349	-1766.93	523.72
5	GUIDE	722473176	9.47	2531	0.000	0.103	0.097	0.160	172.599746	-12.066793	-1641.67	-1167.91
6	GUIDE	722871728	9.67	2530	0.110	-0.039	0.148	0.241	173.202235	-12.568355	238.60	884.50
7	GUIDE	722873464	7.33	2531	0.079	0.049	0.081	0.132	172.661543	-13.050266	1905.41	-1073.39

## 2.4 Star Slots

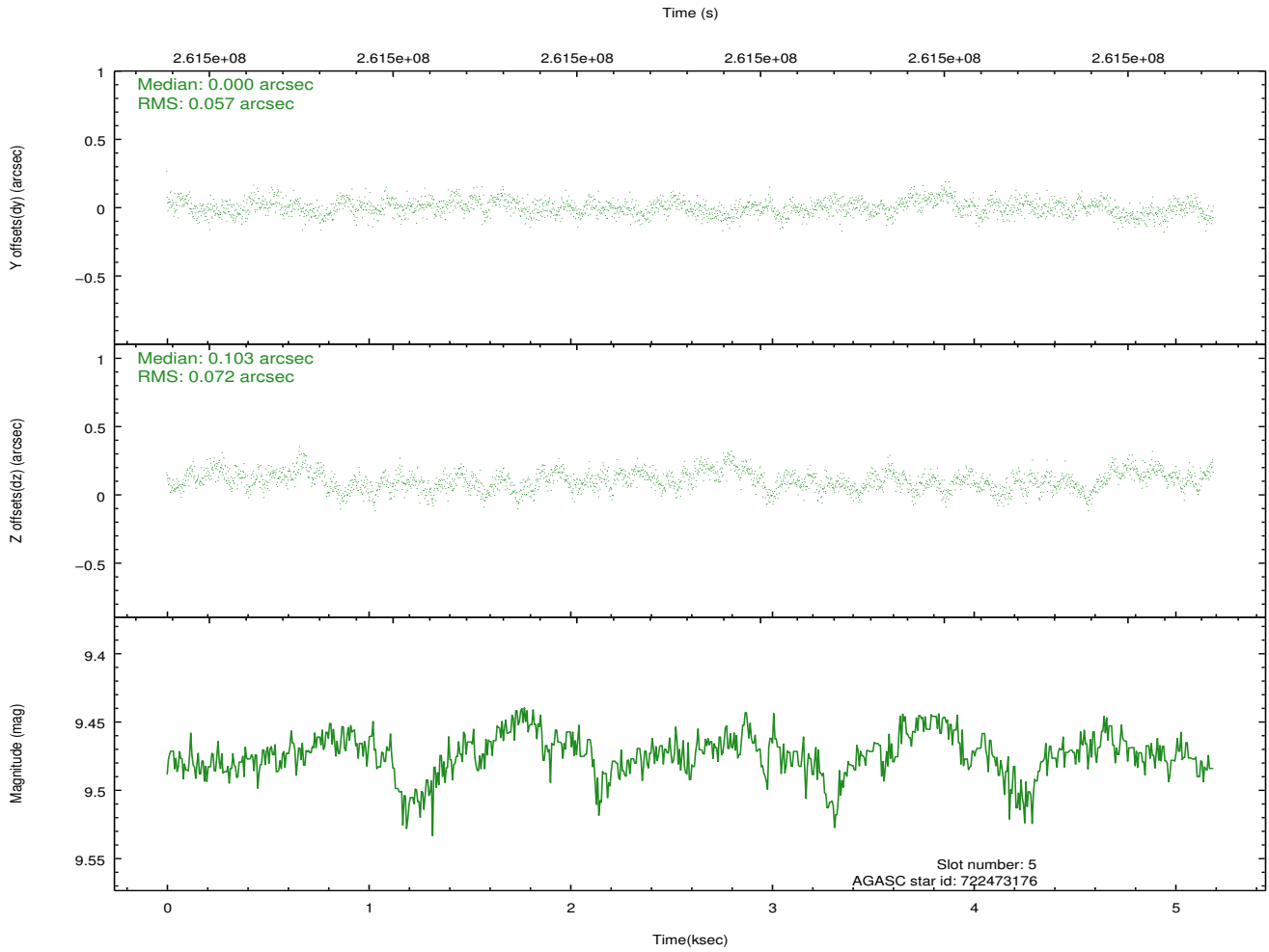
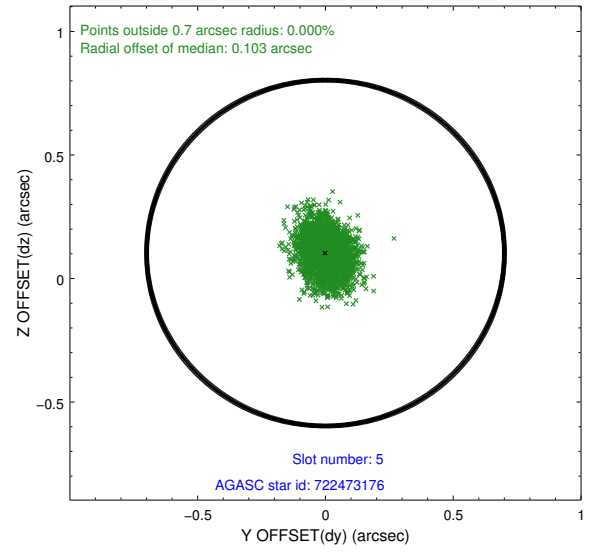
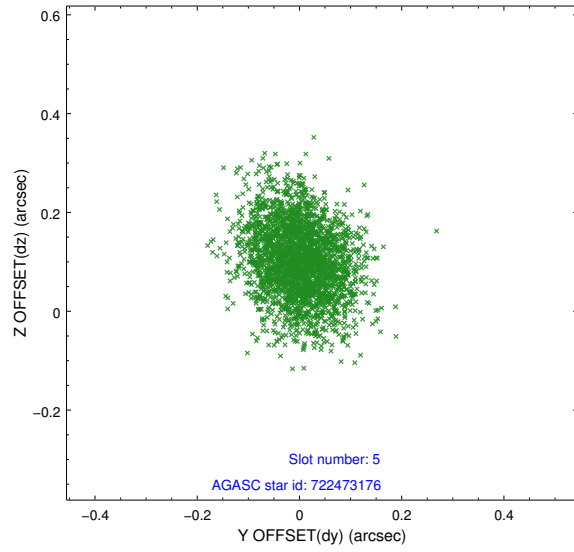
### 2.4.1 Slot 3



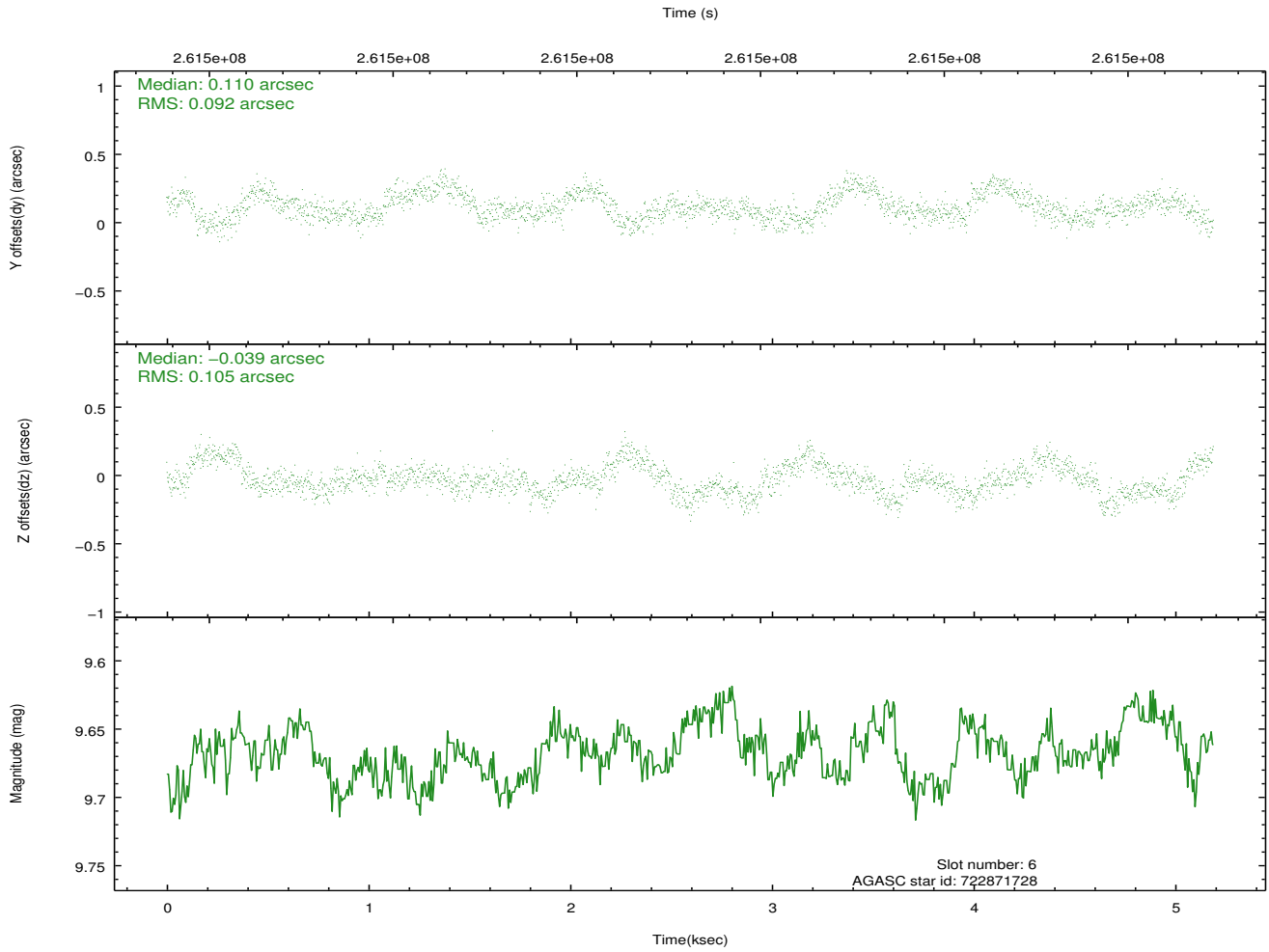
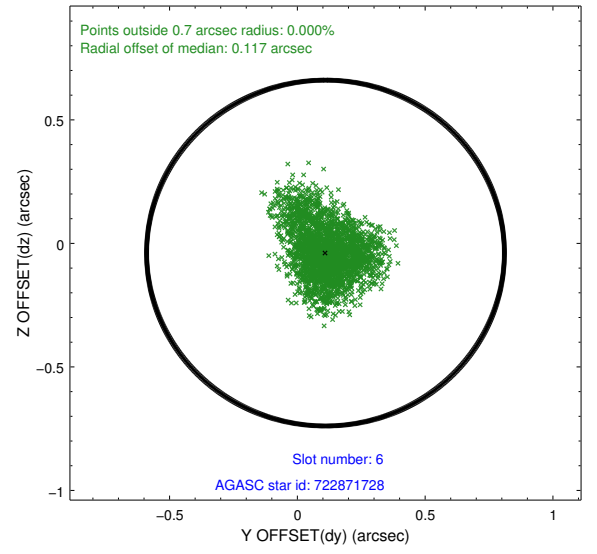
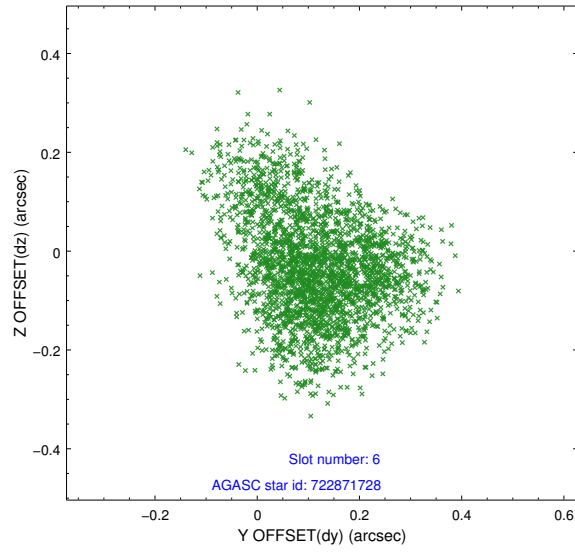
## 2.4.2 Slot 4



### 2.4.3 Slot 5

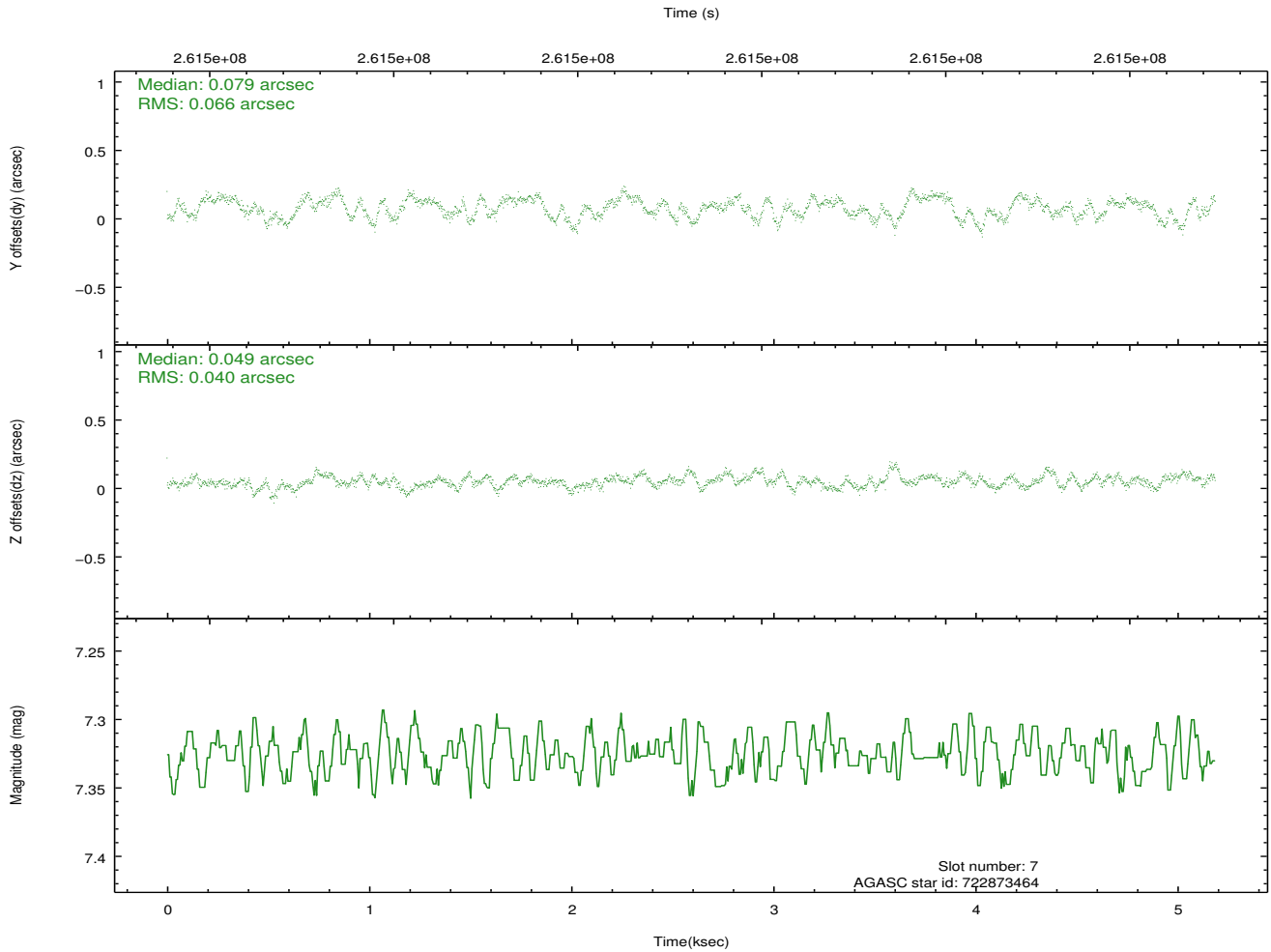
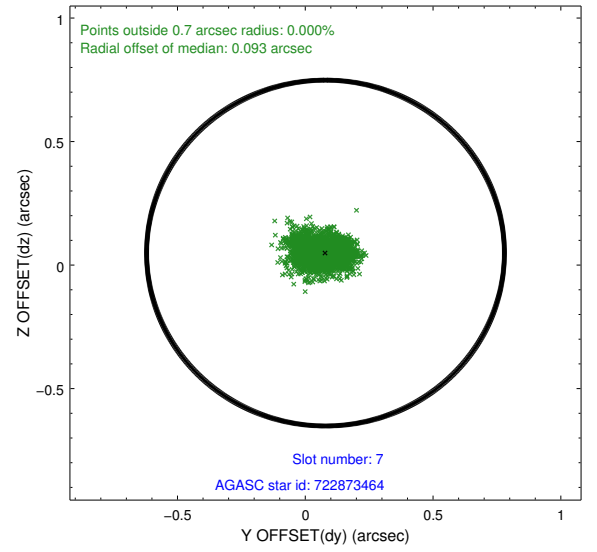
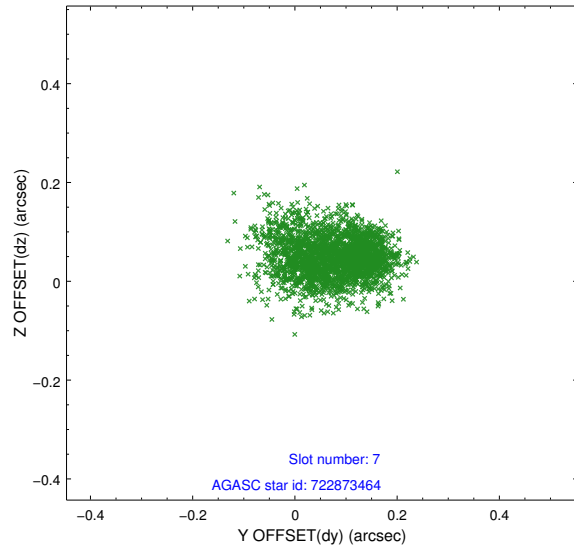


## 2.4.4 Slot 6



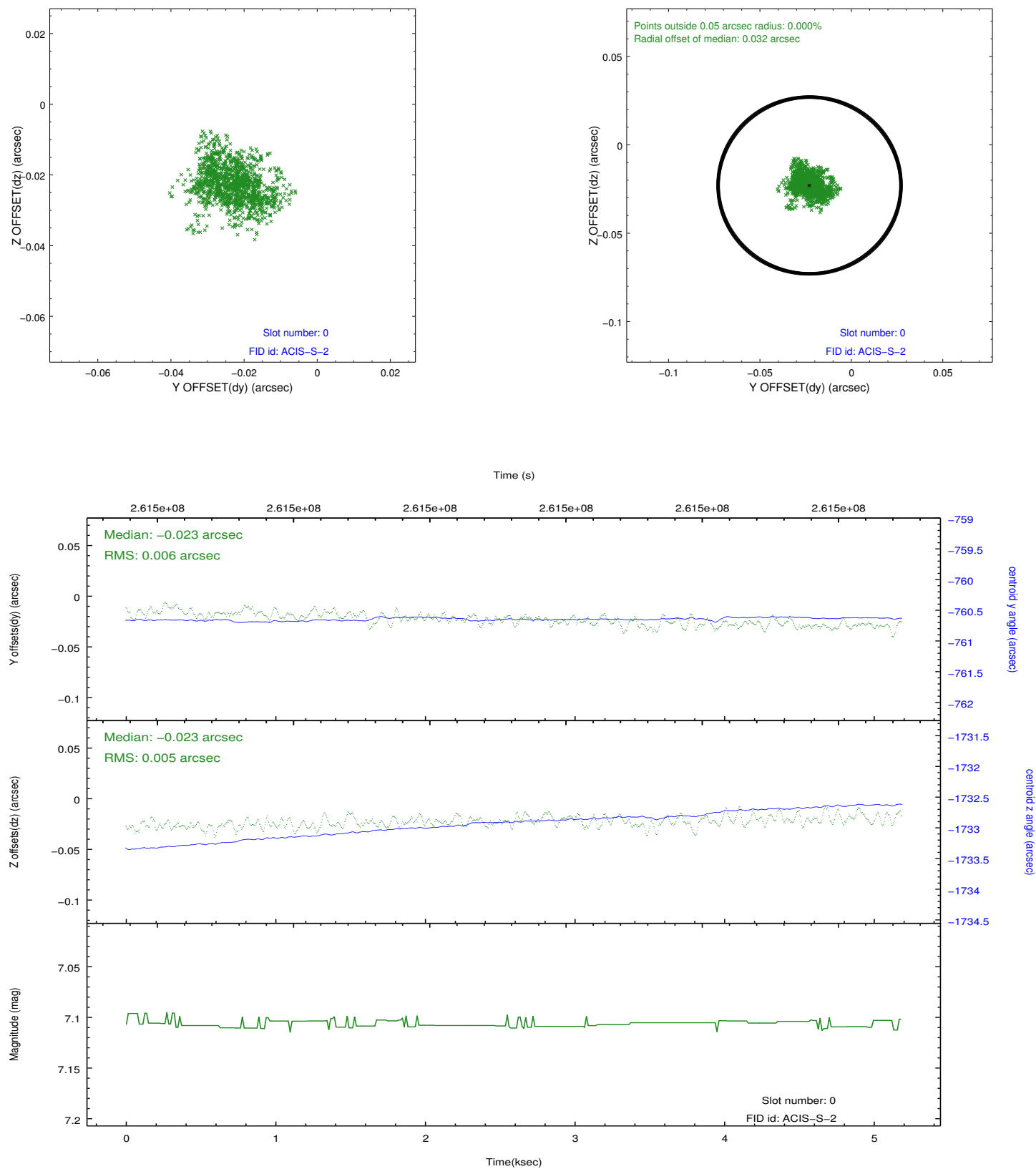


## 2.4.5 Slot 7

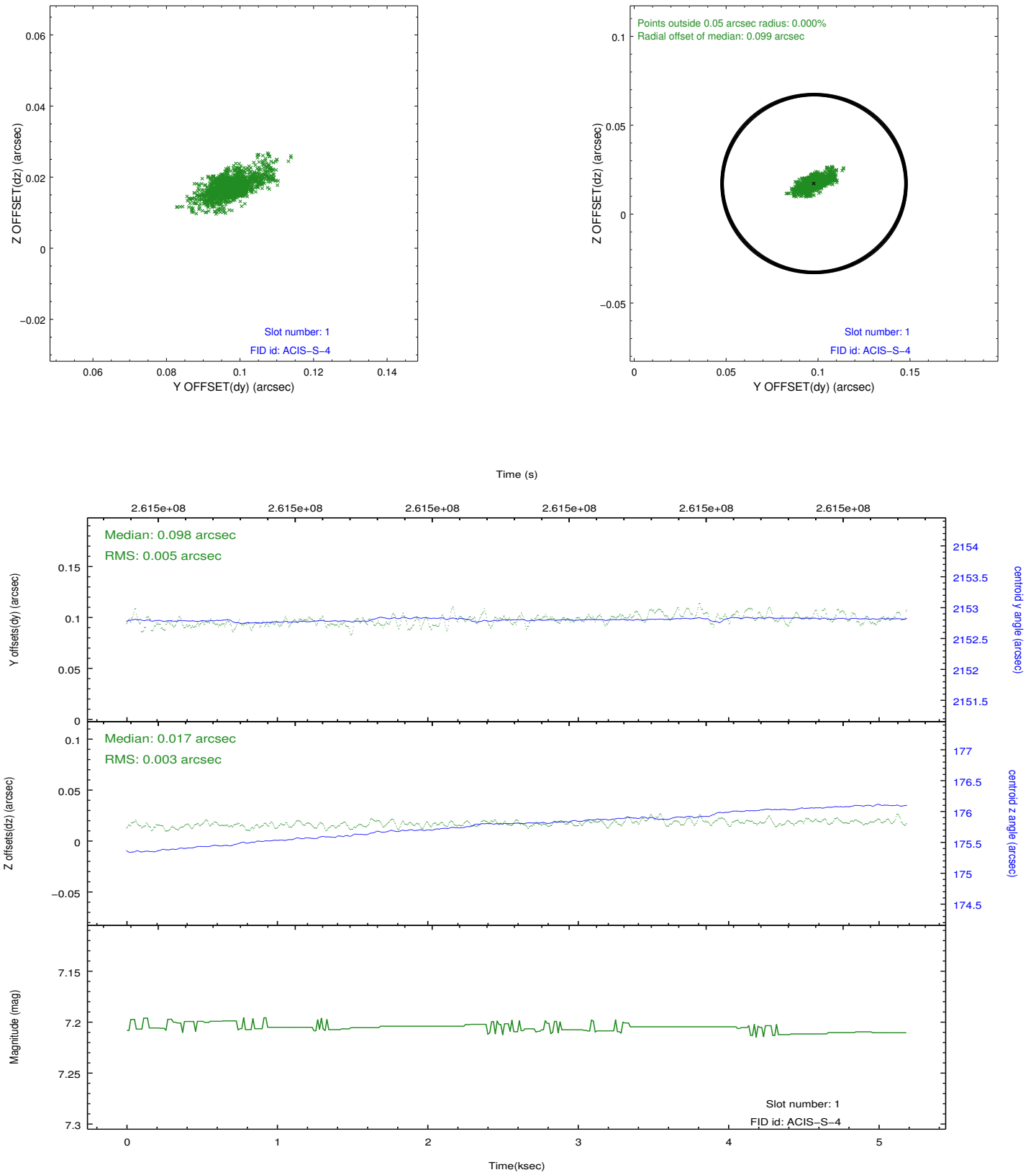


## 2.5 FID Slots

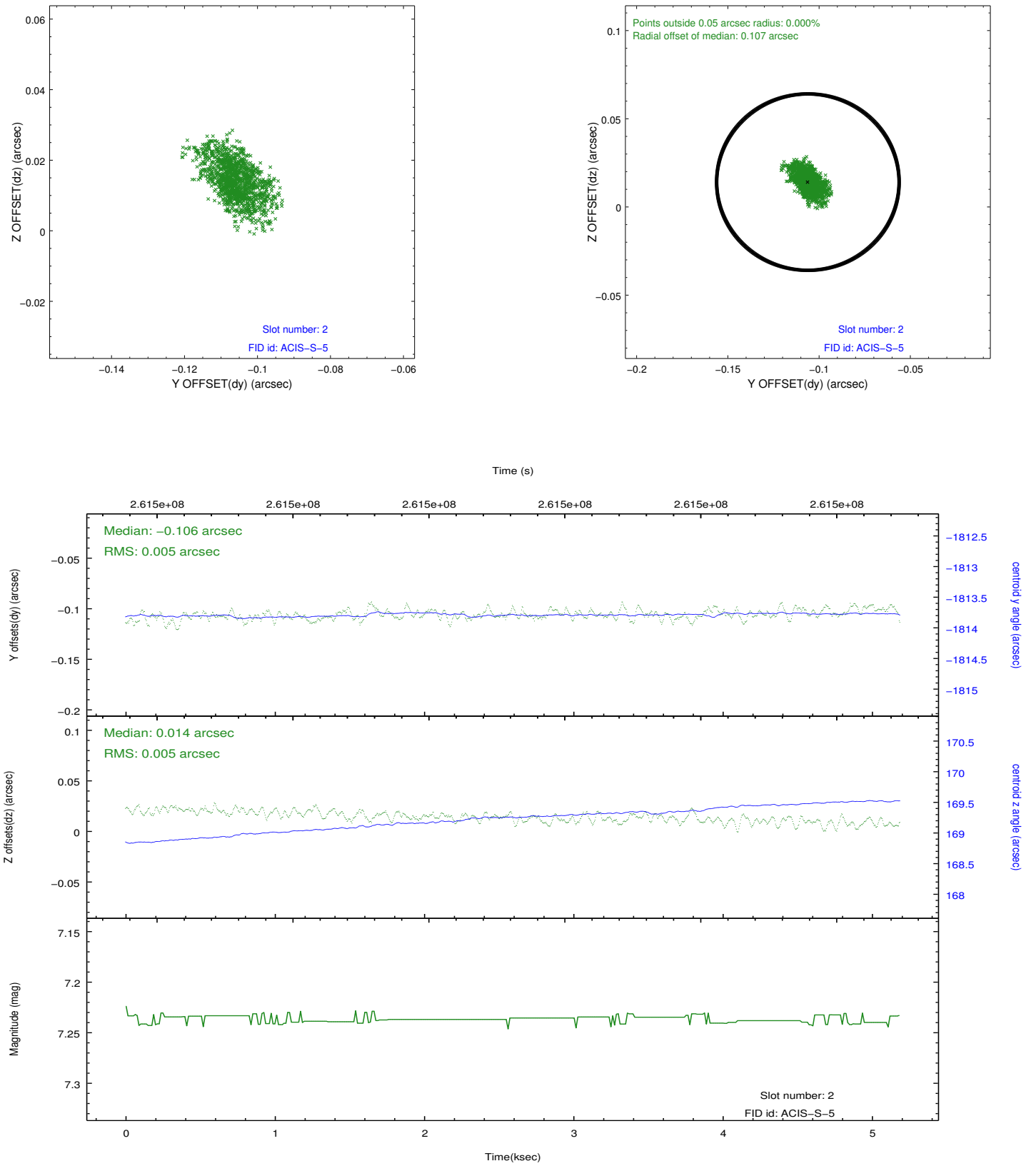
### 2.5.1 Slot 0



## 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)	2012.03.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18629991

### A.2 Comments

Window preference met.