

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13558 - L2 Version 2  
Chandra X-Ray Center

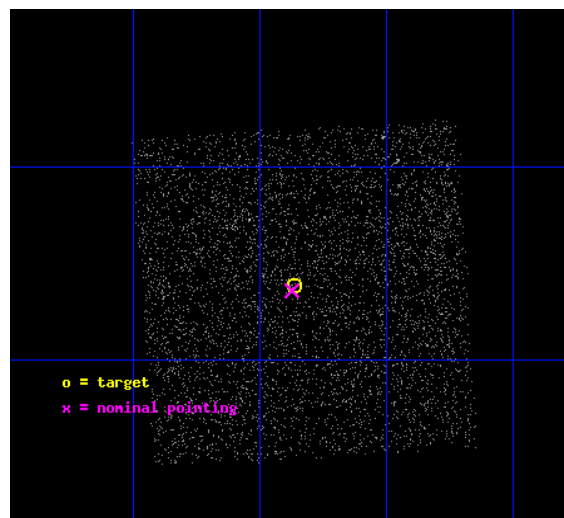
L2 Processing Date : Feb 25 2012

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# 1 Front

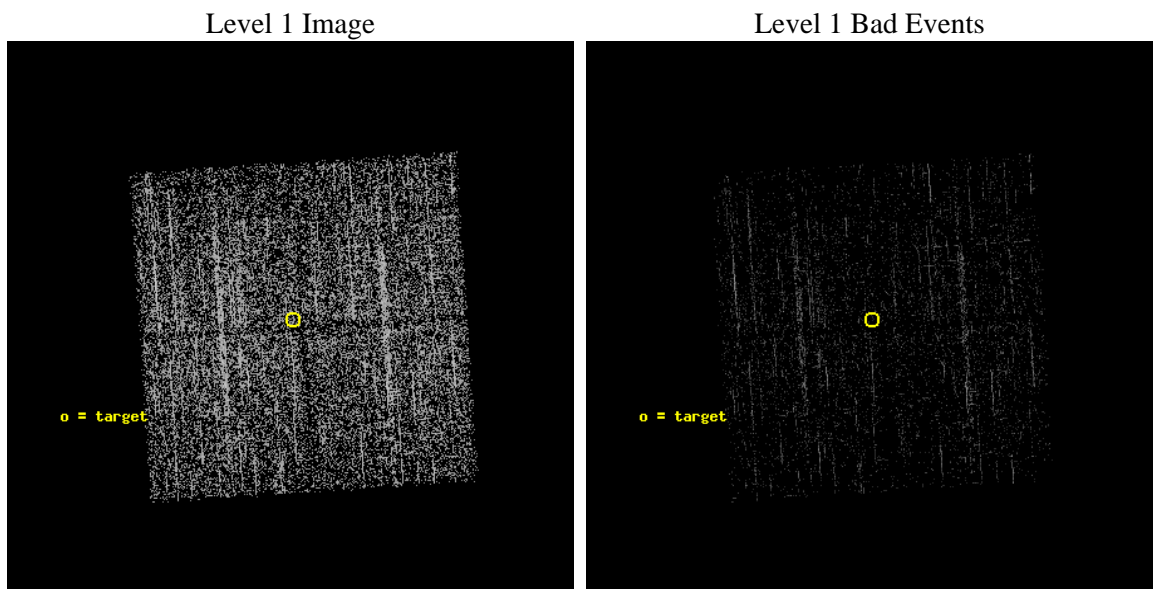
seq_num	401334	Sequence number
obs_id	13558	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.591143	Observer's specified target RA [deg]
dec_targ	-27.935313	Observer's specified target Dec [deg]
ra_nom	269.59351231698	Nominal RA [deg]
dec_nom	-27.940415595807	Nominal Dec [deg]
roll_nom	266.26570805279	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1971.6000151634	Sum of GTIs [s]
livetime	1945.8396094945	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1971.6000151634	Sum of GTIs [s]
l2events	5396	Number of level 2 events



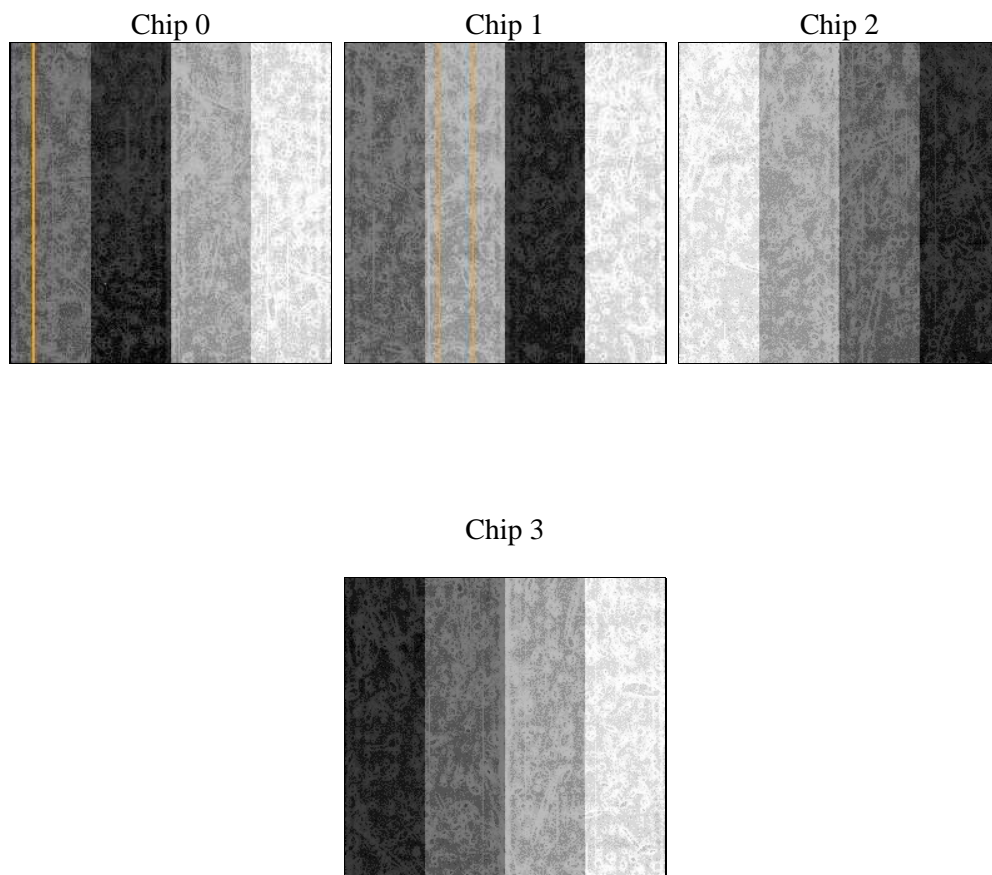
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1971.6000151634	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-26T01:26:21	Date and time of file creation	ontime1	1971.6000151634	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1971.6000151634	Sum of GTIs [s]
			ontime3	1971.6000151634	Sum of GTIs [s]
			l1events	44314	Number of level 1 events

### 2.1.4 Events

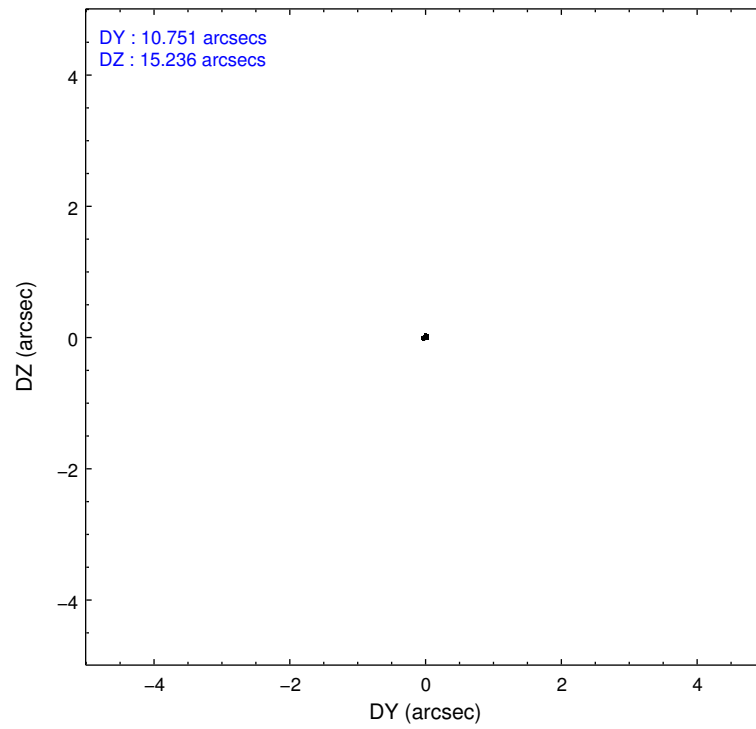
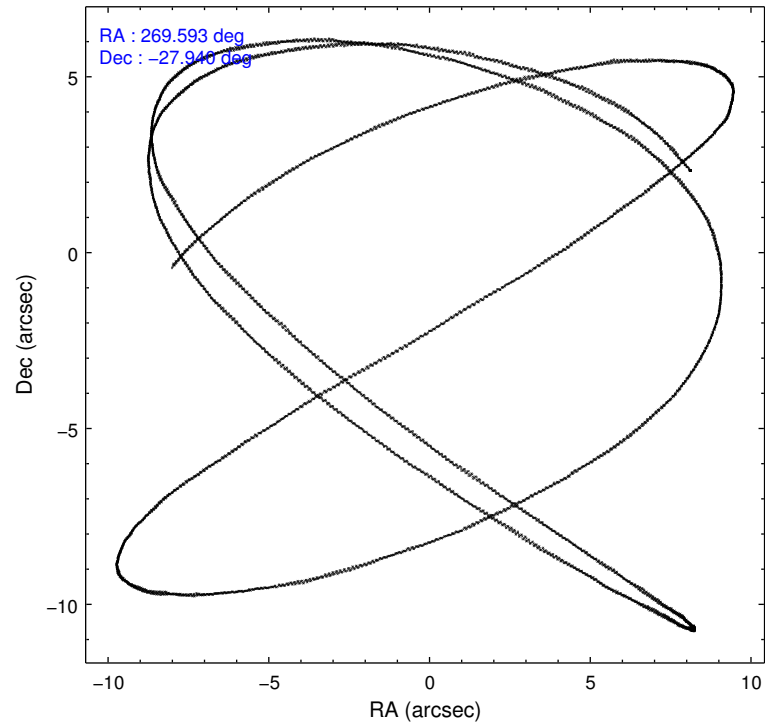
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10621	11277	11165	11251
rejected events	9060	9531	9633	9707
rejected %	85%	84%	86%	86%

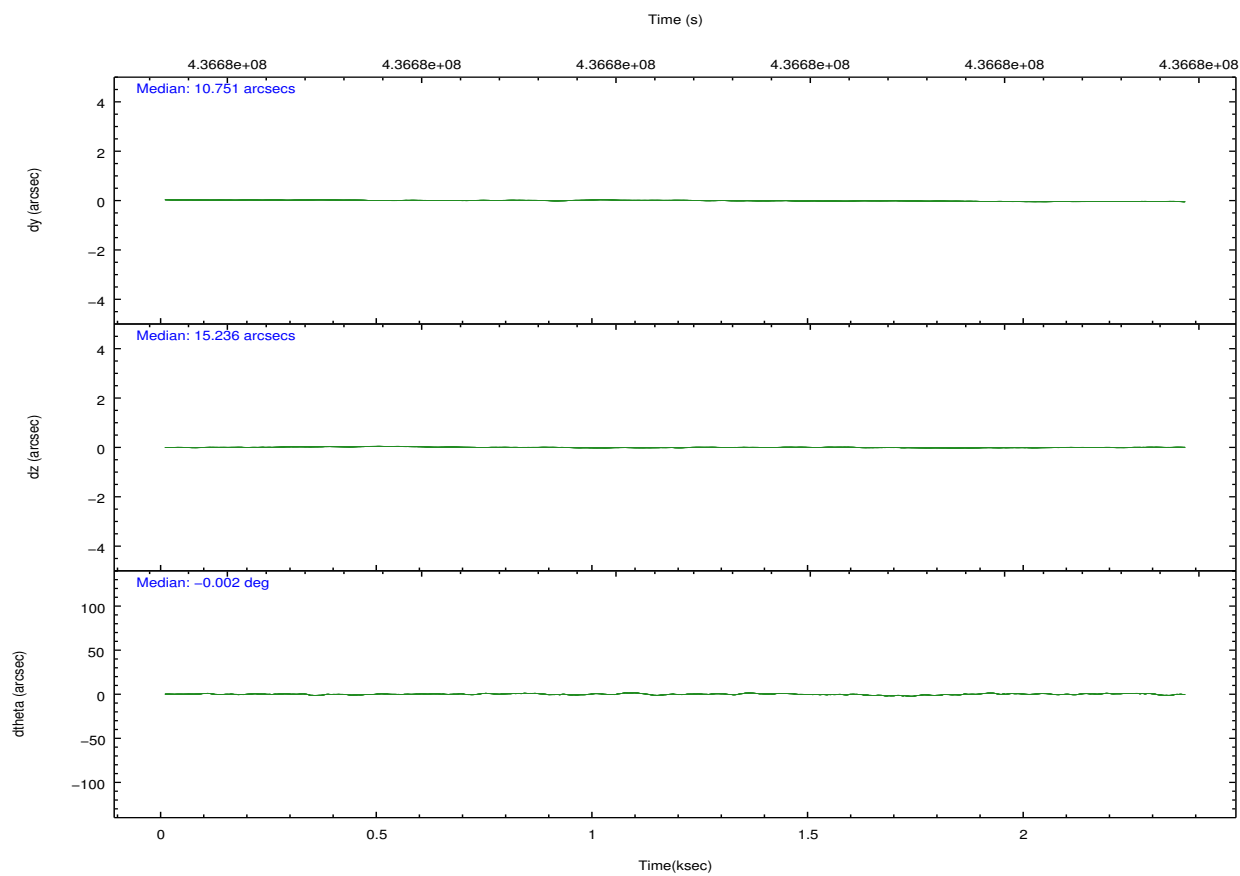
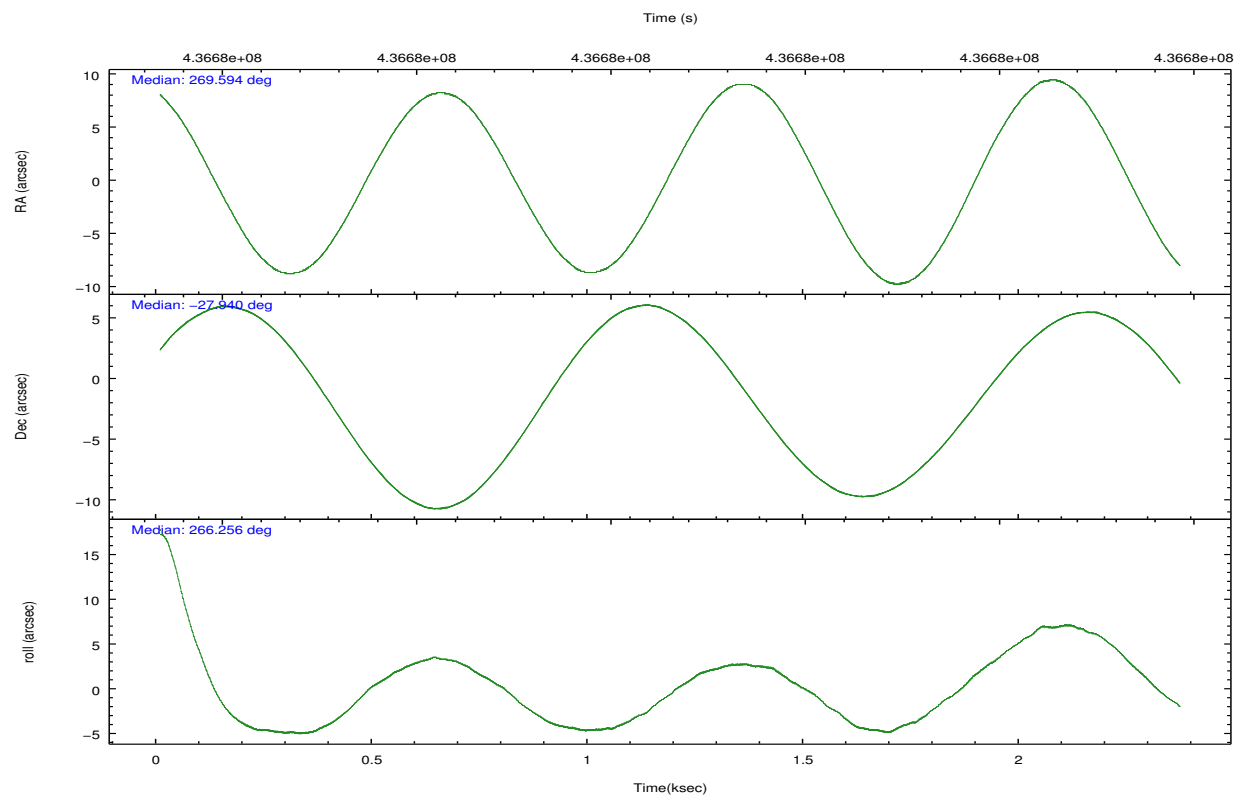
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	645	766	627	687
	6%	6%	5%	6%
grade 1 events	7	7	9	8
	0%	0%	0%	0%
grade 2 events	359	360	375	288
	3%	3%	3%	2%
grade 3 events	153	141	124	147
	1%	1%	1%	1%
grade 4 events	149	144	142	148
	1%	1%	1%	1%
grade 5 events	566	544	492	563
	5%	4%	4%	5%
grade 6 events	261	340	265	279
	2%	3%	2%	2%
grade 7 events	8481	8975	9131	9131
	79%	79%	81%	81%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	269.579597	269.5935123169812	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.916066	-27.94041559580738	Alternating exposures requested	N	N
[deg] Pointing Roll	266.050524	266.265708052795	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	436676162.184000	436675786.26505			
Observation start date	2011-11-03T02:54:56	2011-11-03T02:49:46			
[s] Observation end time (MET)	436678342.184000	436678476.89019			
Observation end date	2011-11-03T03:31:16	2011-11-03T03:34:36			
Read mode	TIMED	TIMED			

## 2.3 Aspect





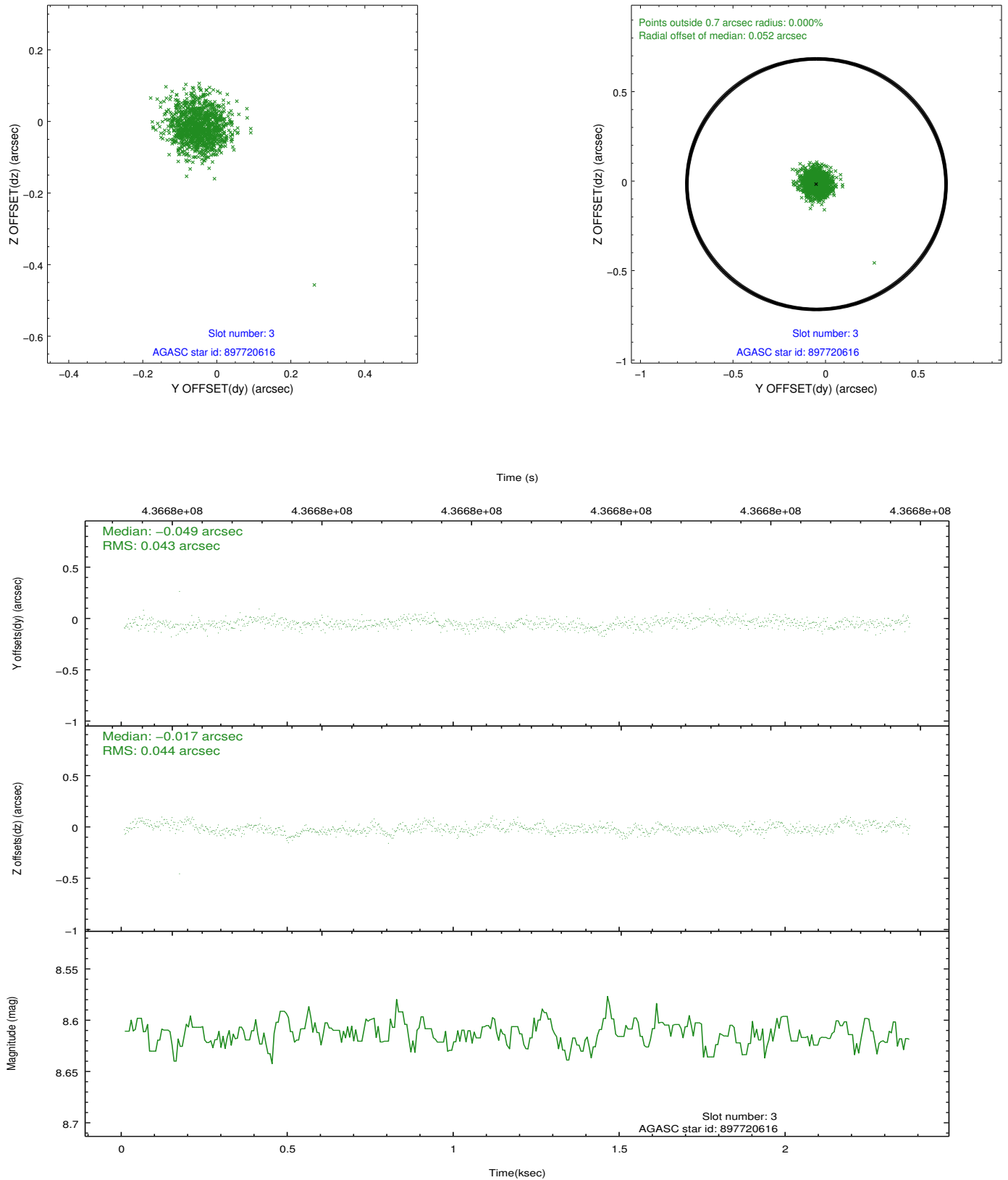
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	577	0.023	-0.049	0.010	0.019	0.000000	0.000000	928.85	-838.89
1	FID	ACIS-I-4	6.95	577	0.146	0.047	0.011	0.018	0.000000	0.000000	2150.54	1059.64
2	FID	ACIS-I-5	7.01	577	-0.266	0.073	0.010	0.017	0.000000	0.000000	-1815.91	1060.62
3	GUIDE	897720616	8.61	1154	-0.049	-0.017	0.063	0.102	269.886360	-27.876425	-207.26	964.11
4	GUIDE	897721048	7.88	1154	-0.113	-0.059	0.067	0.106	268.989561	-28.030814	547.14	-1840.84
5	GUIDE	897862152	9.25	1154	0.051	0.098	0.113	0.174	270.075629	-28.076037	470.80	1610.33
6	GUIDE	898236640	9.00	1155	0.016	-0.162	0.110	0.177	268.893541	-28.185549	1126.53	-2103.42
7	GUIDE	898258992	8.03	1150	0.100	0.143	0.076	0.121	269.435214	-28.570389	2384.14	-294.41

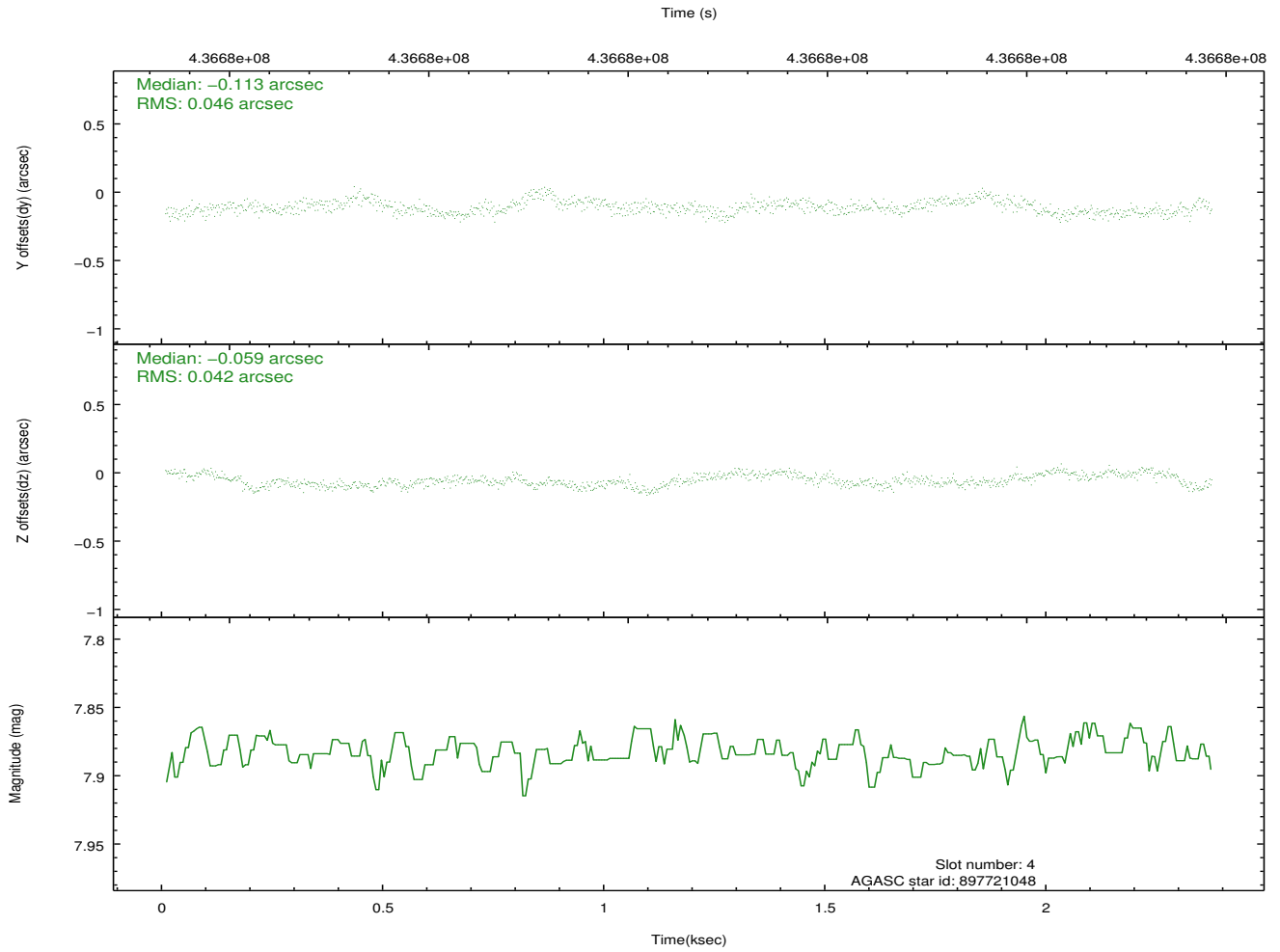
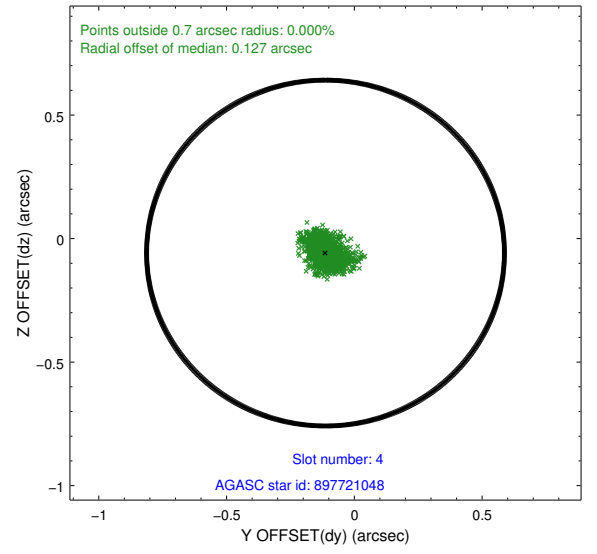
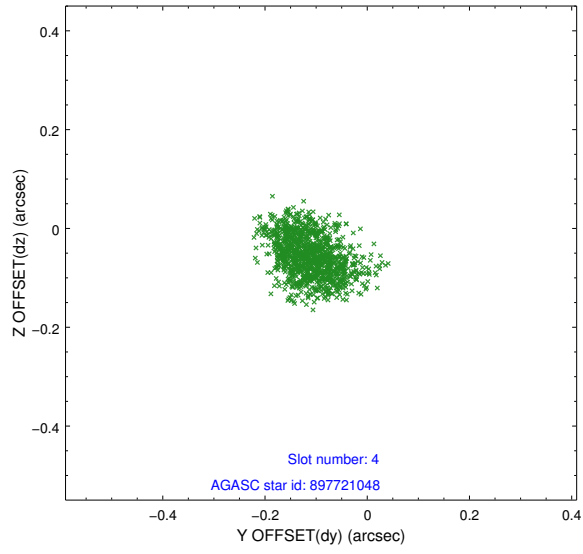


## 2.4 Star Slots

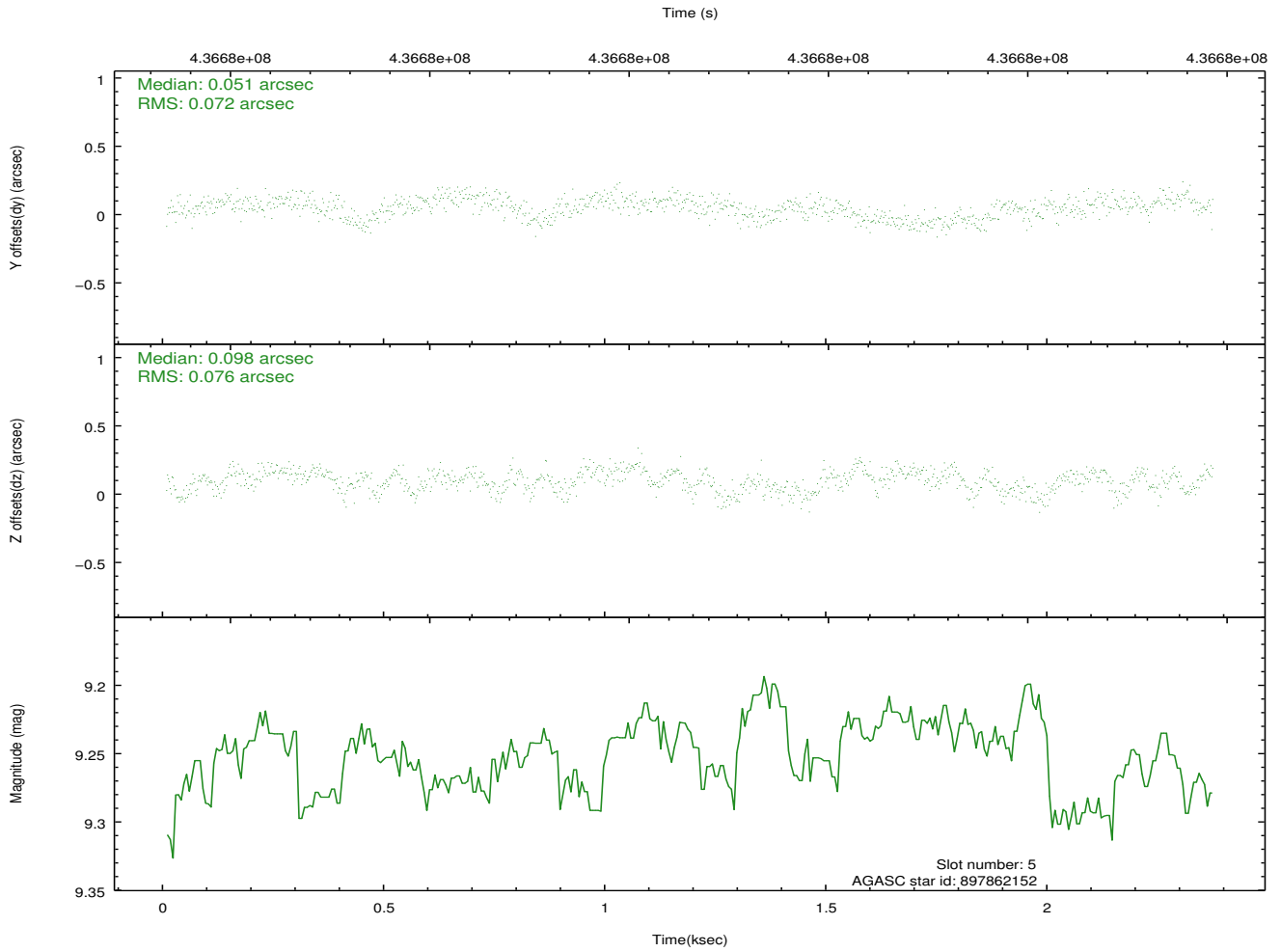
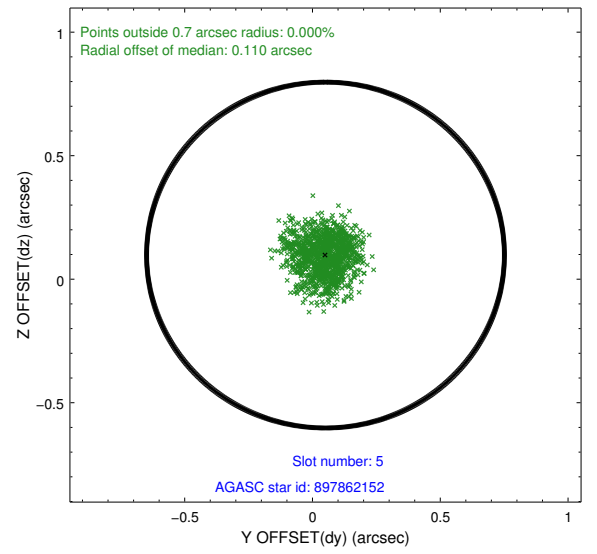
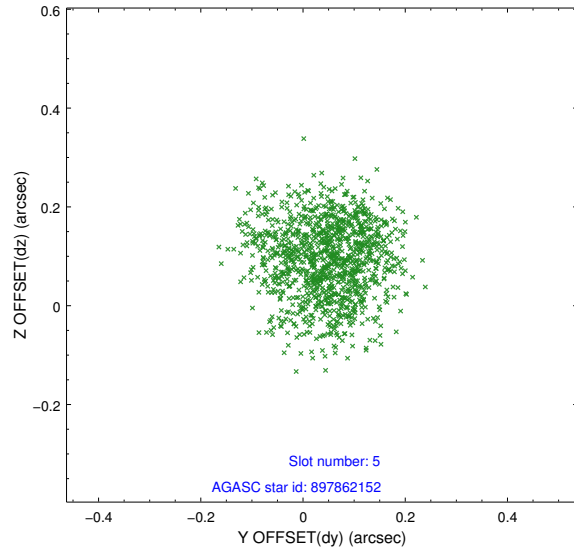
### 2.4.1 Slot 3



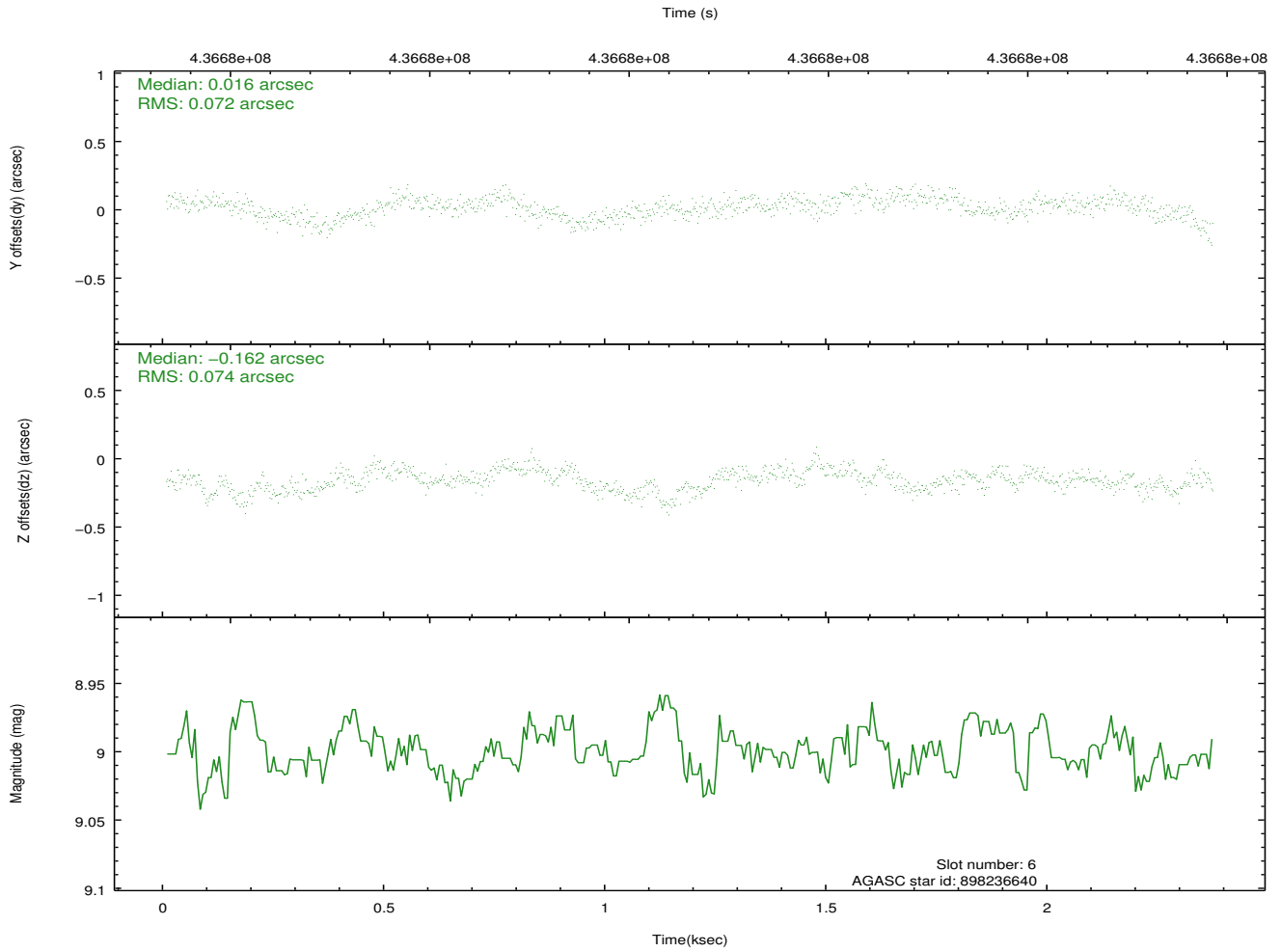
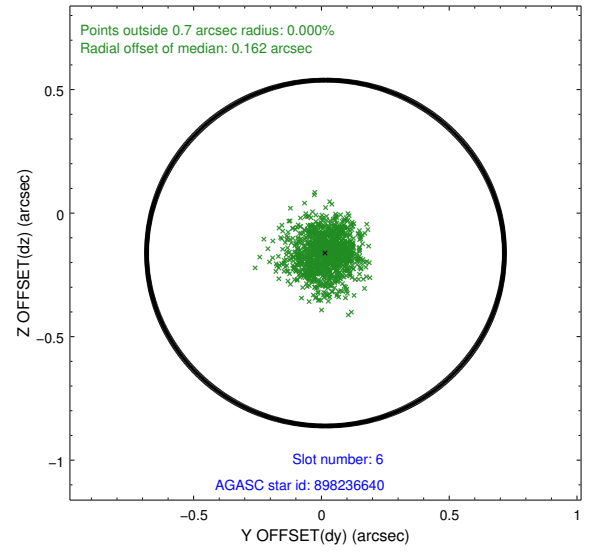
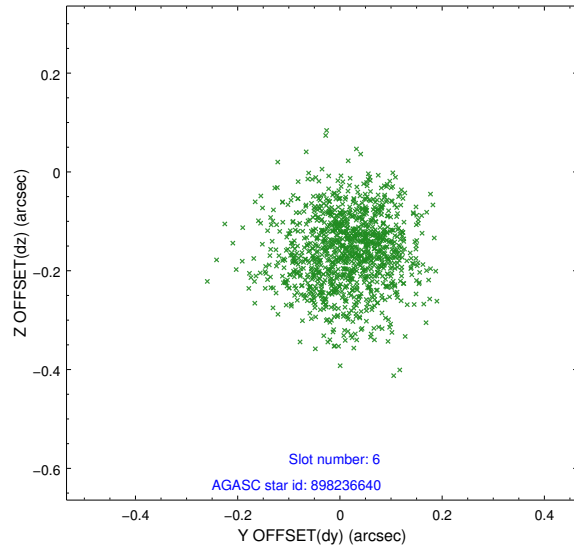
## 2.4.2 Slot 4



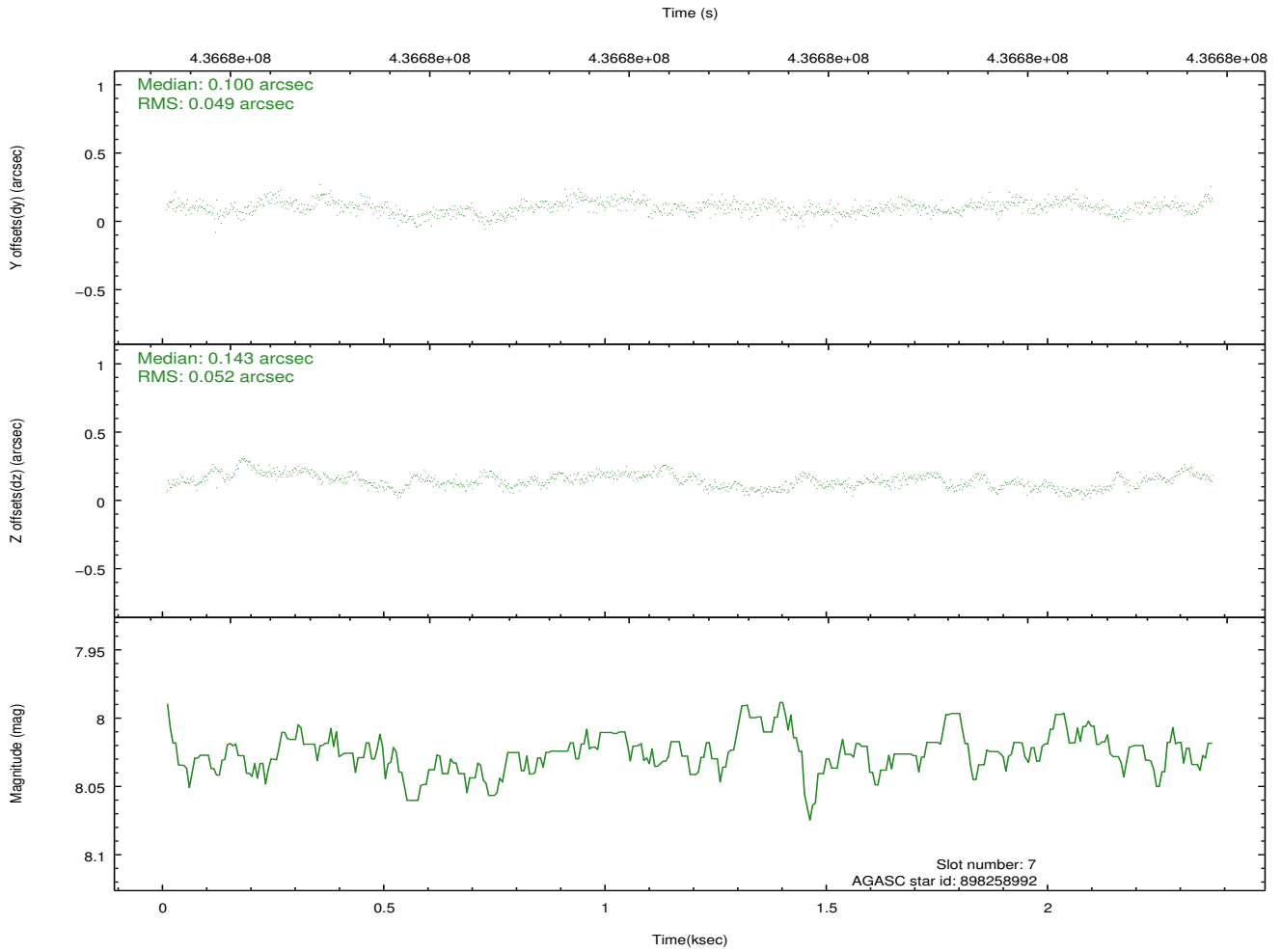
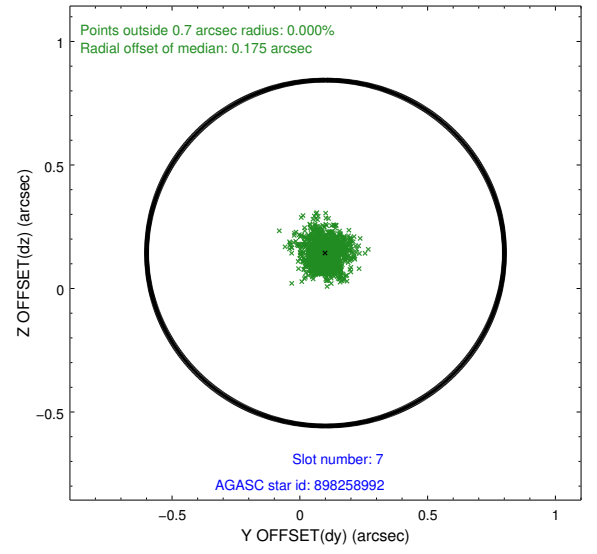
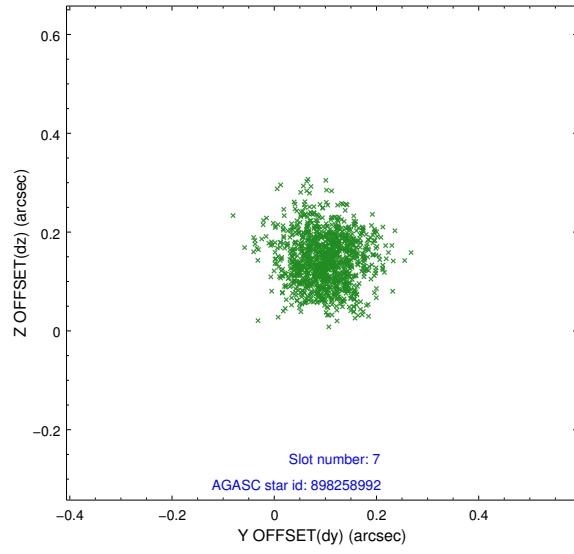
### 2.4.3 Slot 5



## 2.4.4 Slot 6

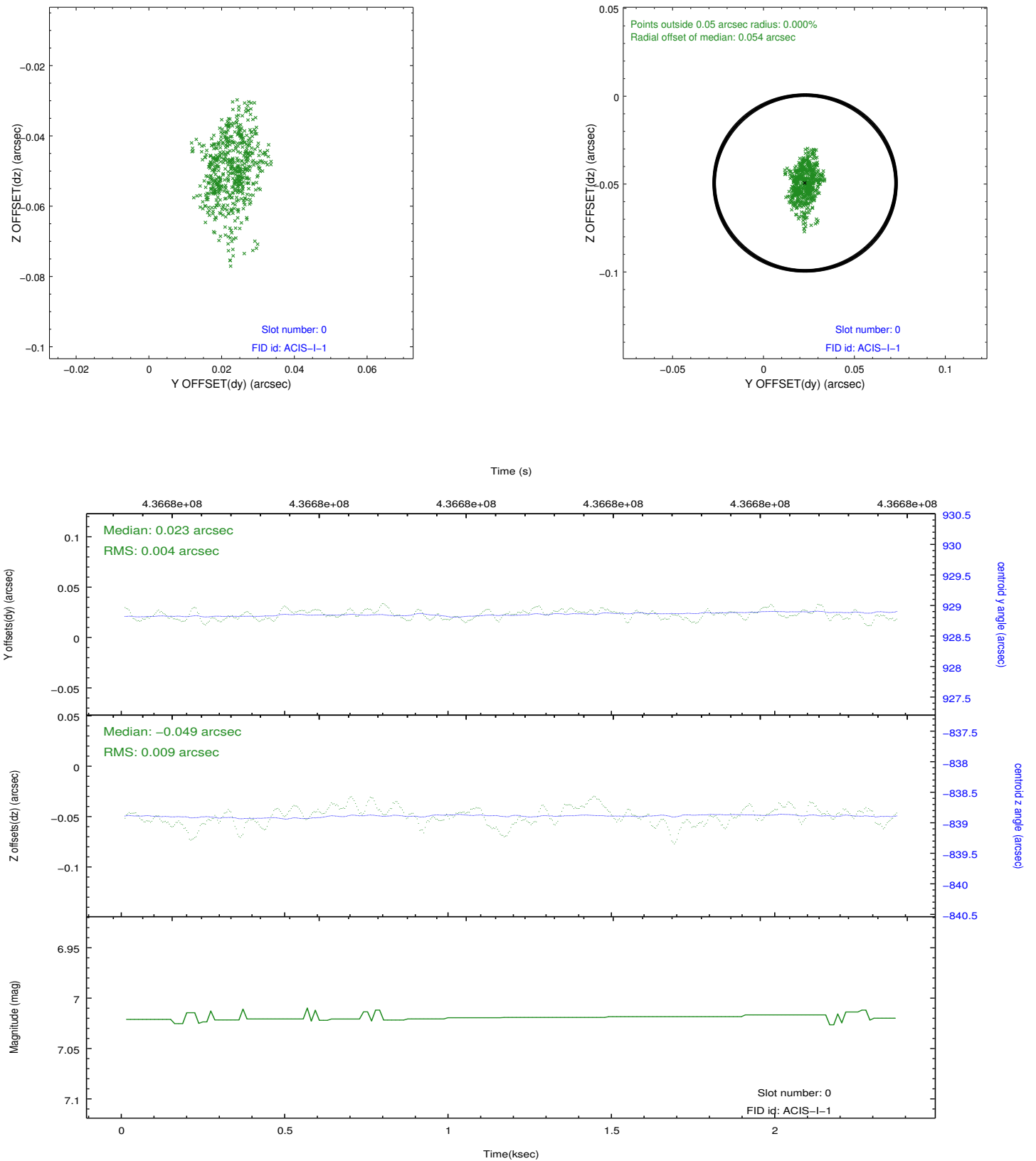


## 2.4.5 Slot 7

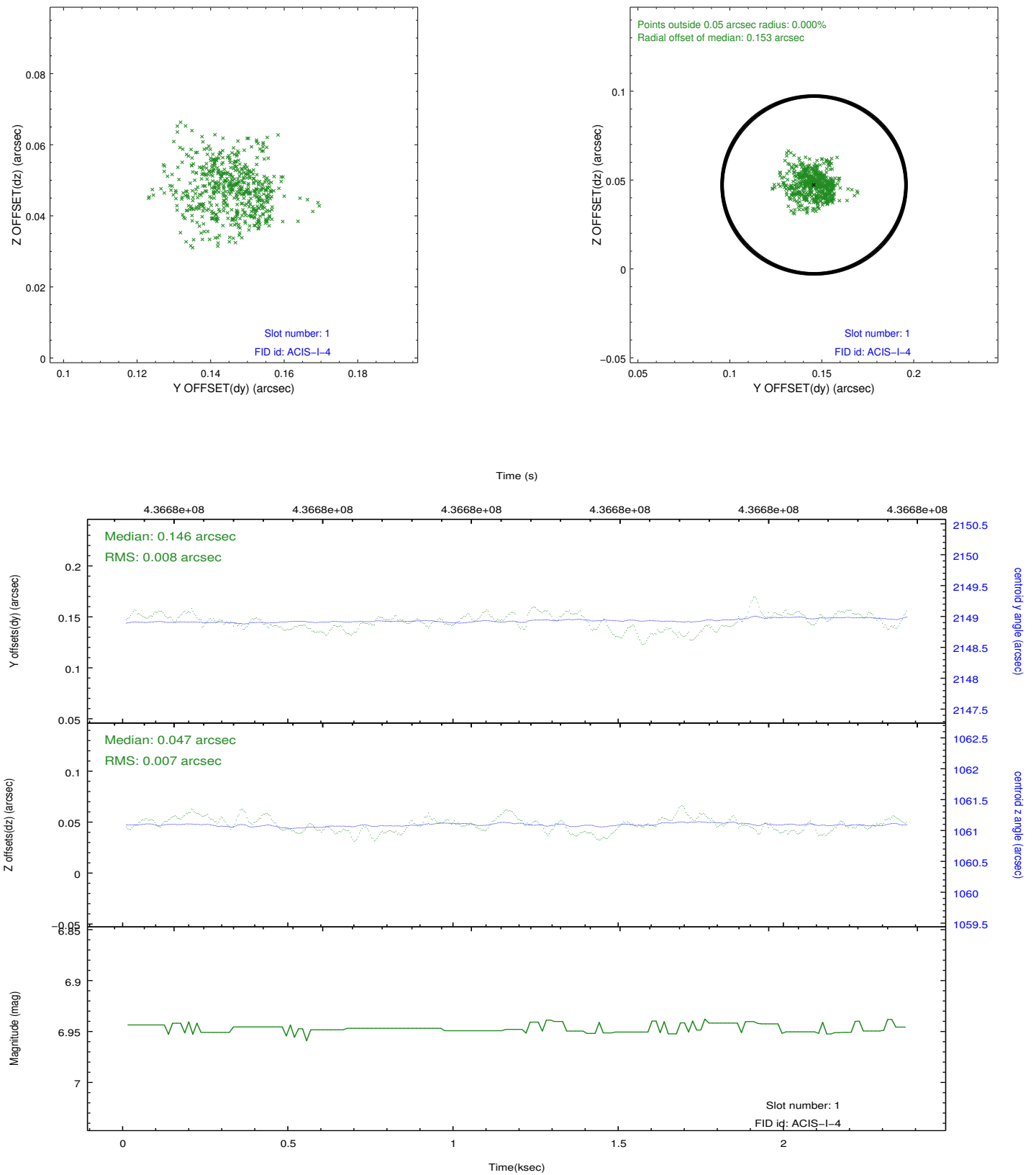


## 2.5 FID Slots

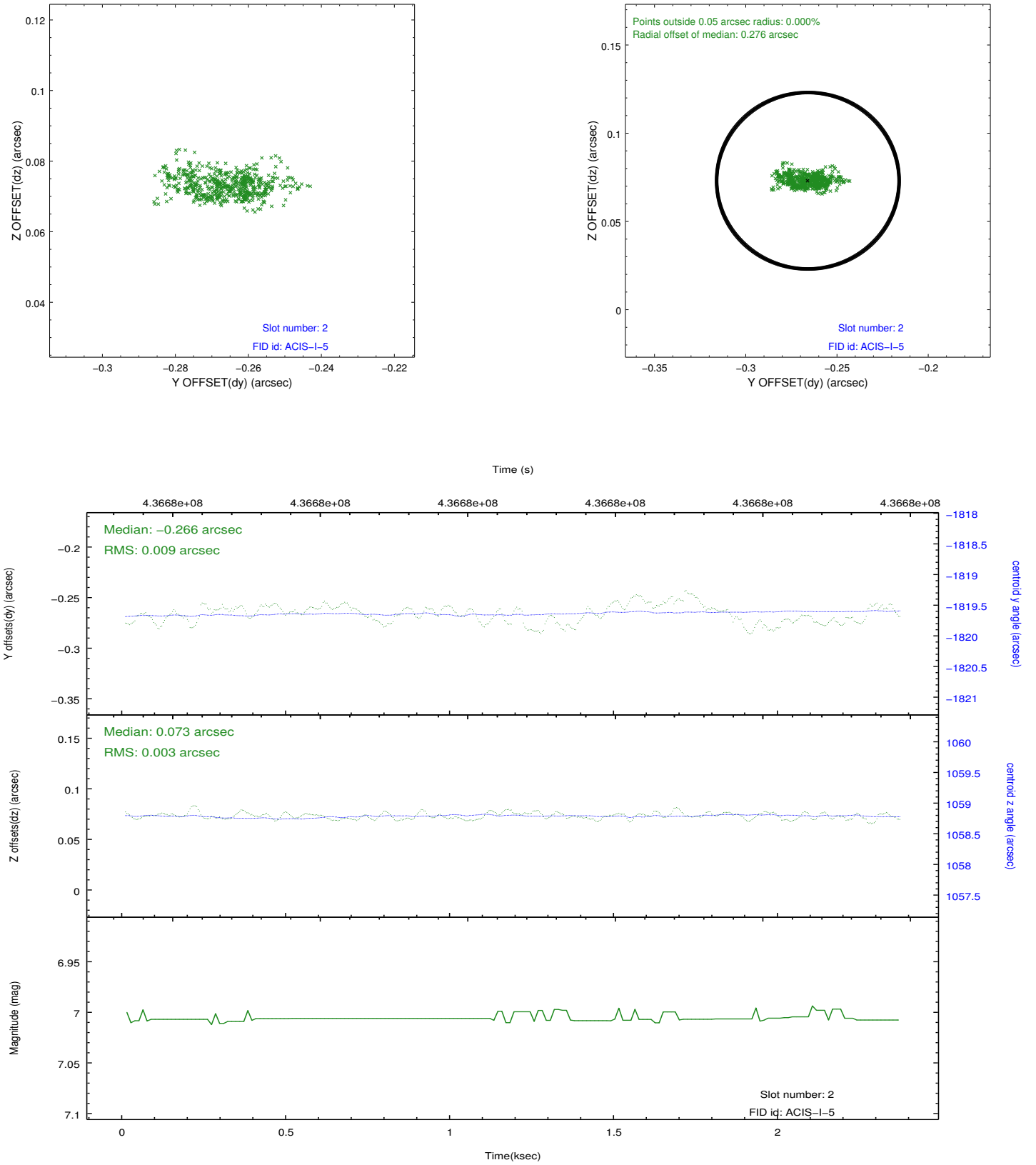
### 2.5.1 Slot 0



## 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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9716000151634

### A.2 Comments

Joint proposal: NOAO