

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13537 - L2 Version 2  
Chandra X-Ray Center

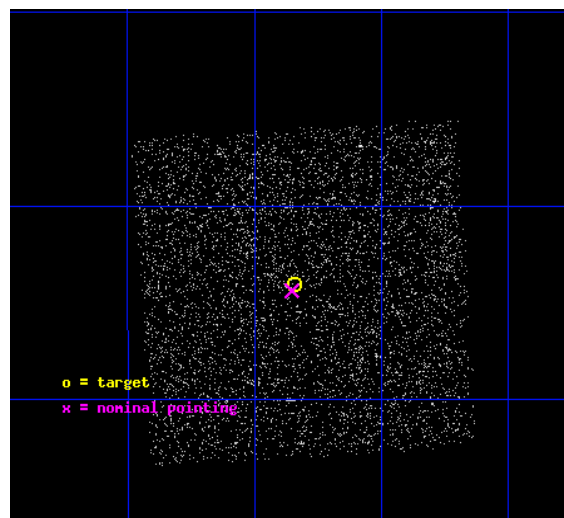
L2 Processing Date : Feb 25 2012

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# 1 Front

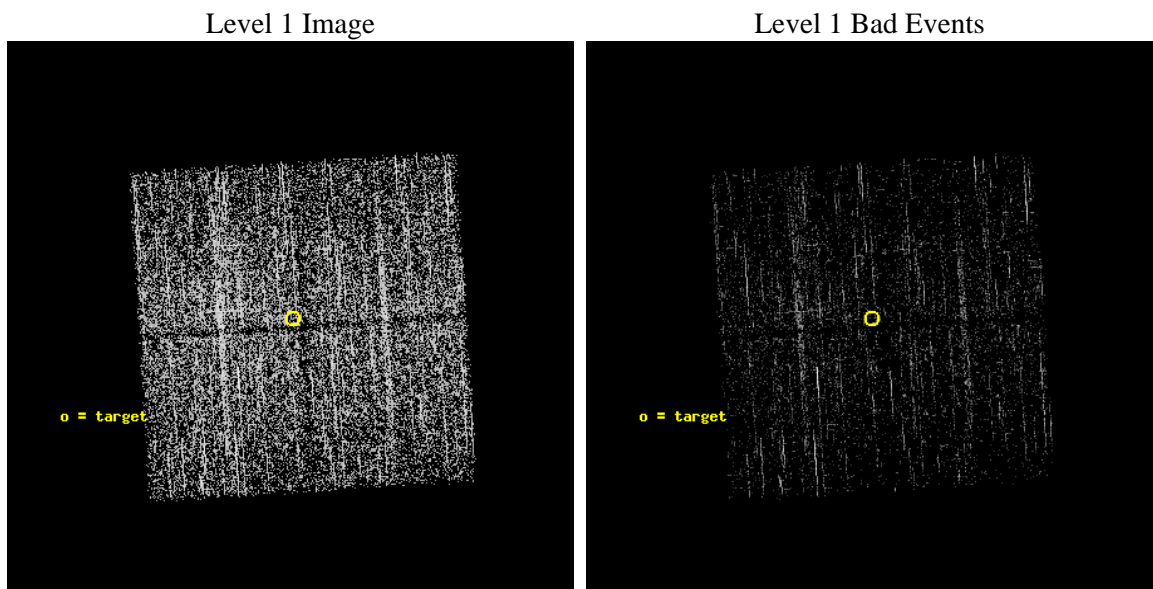
seq_num	401313	Sequence number
obs_id	13537	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.460838	Observer's specified target RA [deg]
dec_targ	-27.734707	Observer's specified target Dec [deg]
ra_nom	269.46322712538	Nominal RA [deg]
dec_nom	-27.739953196983	Nominal Dec [deg]
roll_nom	266.39732210096	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2067.7000159025	Sum of GTIs [s]
livetime	2040.6839929761	Livetime [s]
ontime0	2067.7000159025	Sum of GTIs [s]
ontime1	2067.7000159025	Sum of GTIs [s]
ontime2	2067.7000159025	Sum of GTIs [s]
ontime3	2067.7000159025	Sum of GTIs [s]
l2events	5721	Number of level 2 events



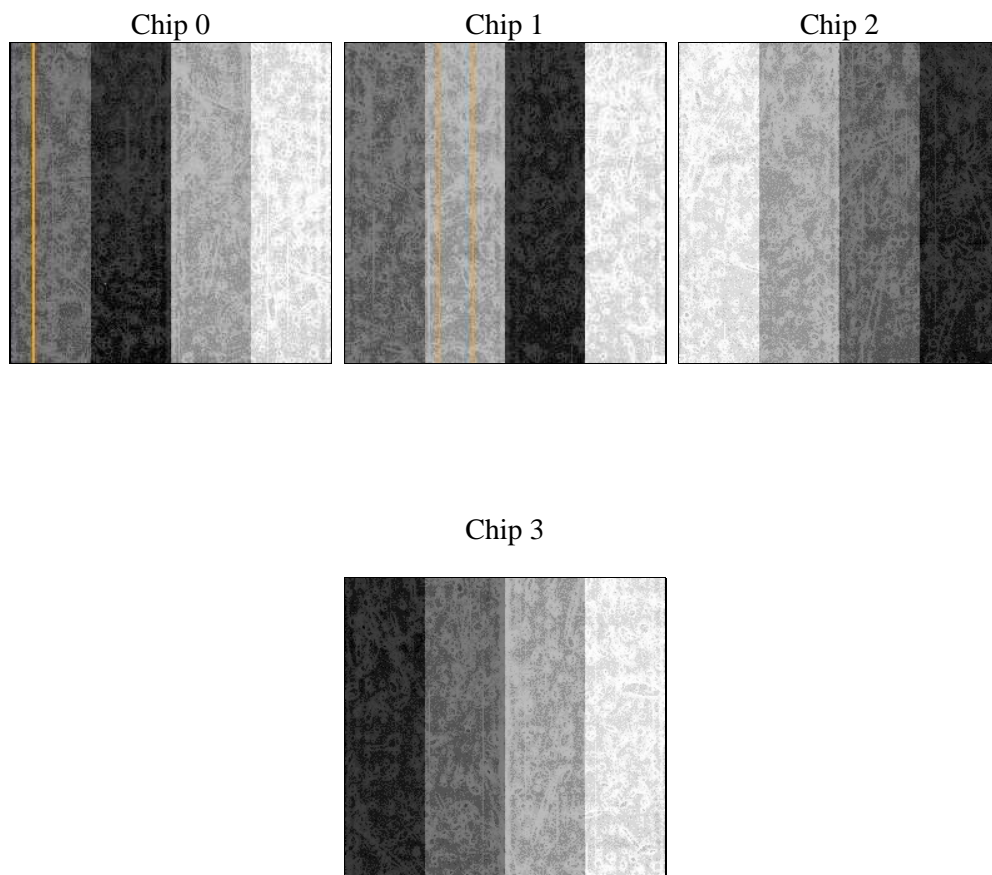
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	2067.7000159025	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	2067.7000159025	Sum of GTIs [s]
date	2012-02-26T01:22:00	Date and time of file creation	ontime1	2067.7000159025	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2067.7000159025	Sum of GTIs [s]
			ontime3	2067.7000159025	Sum of GTIs [s]
			l1events	50752	Number of level 1 events

### 2.1.4 Events

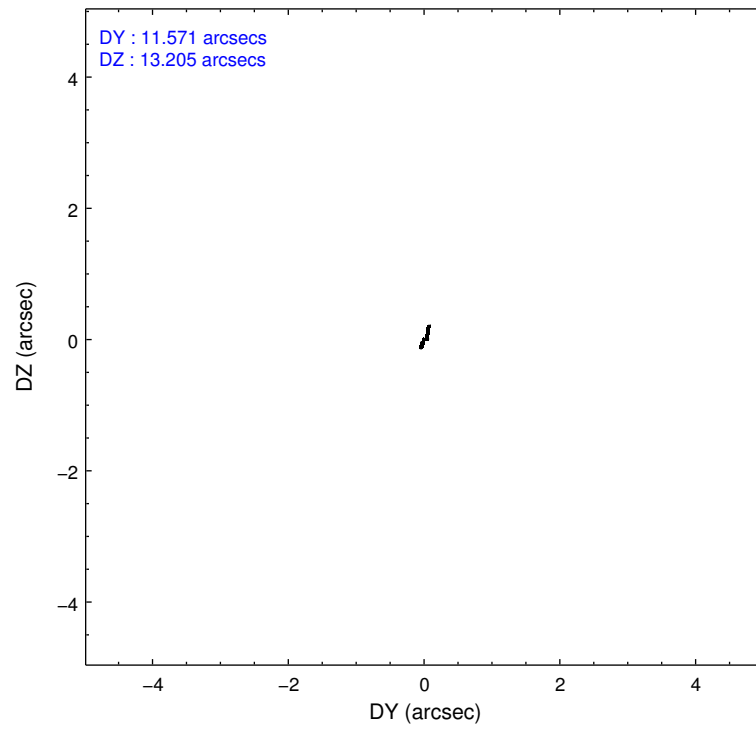
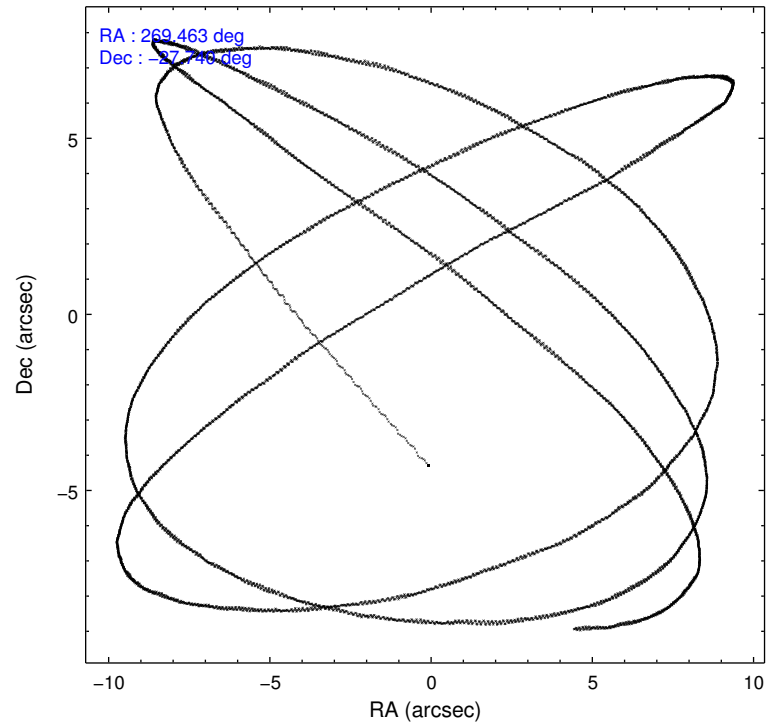
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	11778	12181	12668	14125
rejected events	10103	10410	11045	12513
rejected %	85%	85%	87%	88%

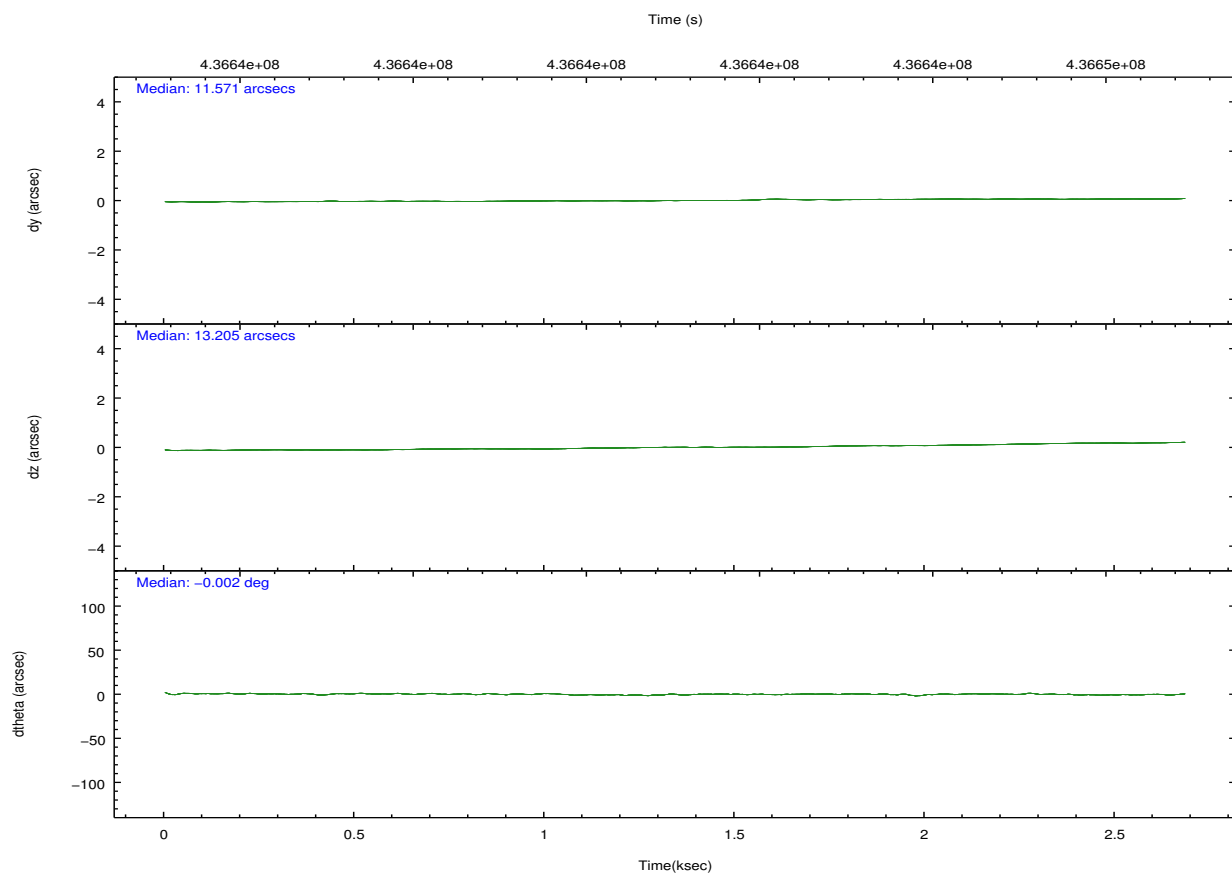
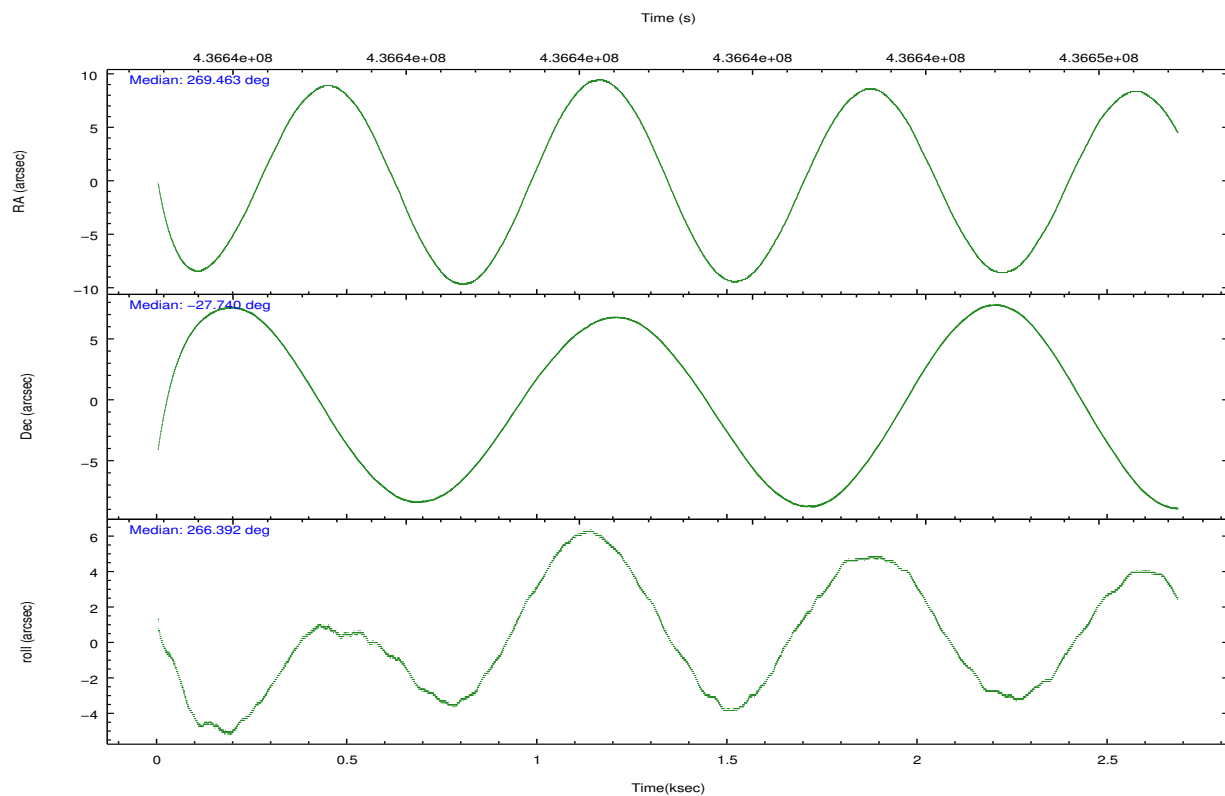
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	714	685	691	685
	6%	5%	5%	4%
grade 1 events	7	9	13	17
	0%	0%	0%	0%
grade 2 events	352	431	350	330
	2%	3%	2%	2%
grade 3 events	170	170	144	177
	1%	1%	1%	1%
grade 4 events	147	149	151	145
	1%	1%	1%	1%
grade 5 events	537	605	529	629
	4%	4%	4%	4%
grade 6 events	294	338	290	277
	2%	2%	2%	1%
grade 7 events	9557	9794	10500	11865
	81%	80%	82%	84%

## 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	269.449268	269.4632271253819	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.715485	-27.73995319698349	Alternating exposures requested	N	N
[deg] Pointing Roll	266.182157	266.3973221009643	[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)	436643598.184000	436641796.23826			
Observation start date	2011-11-02T17:52:12	2011-11-02T17:23:16			
[s] Observation end time (MET)	436645598.184000	436645732.23847			
Observation end date	2011-11-02T18:25:32	2011-11-02T18:28:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect





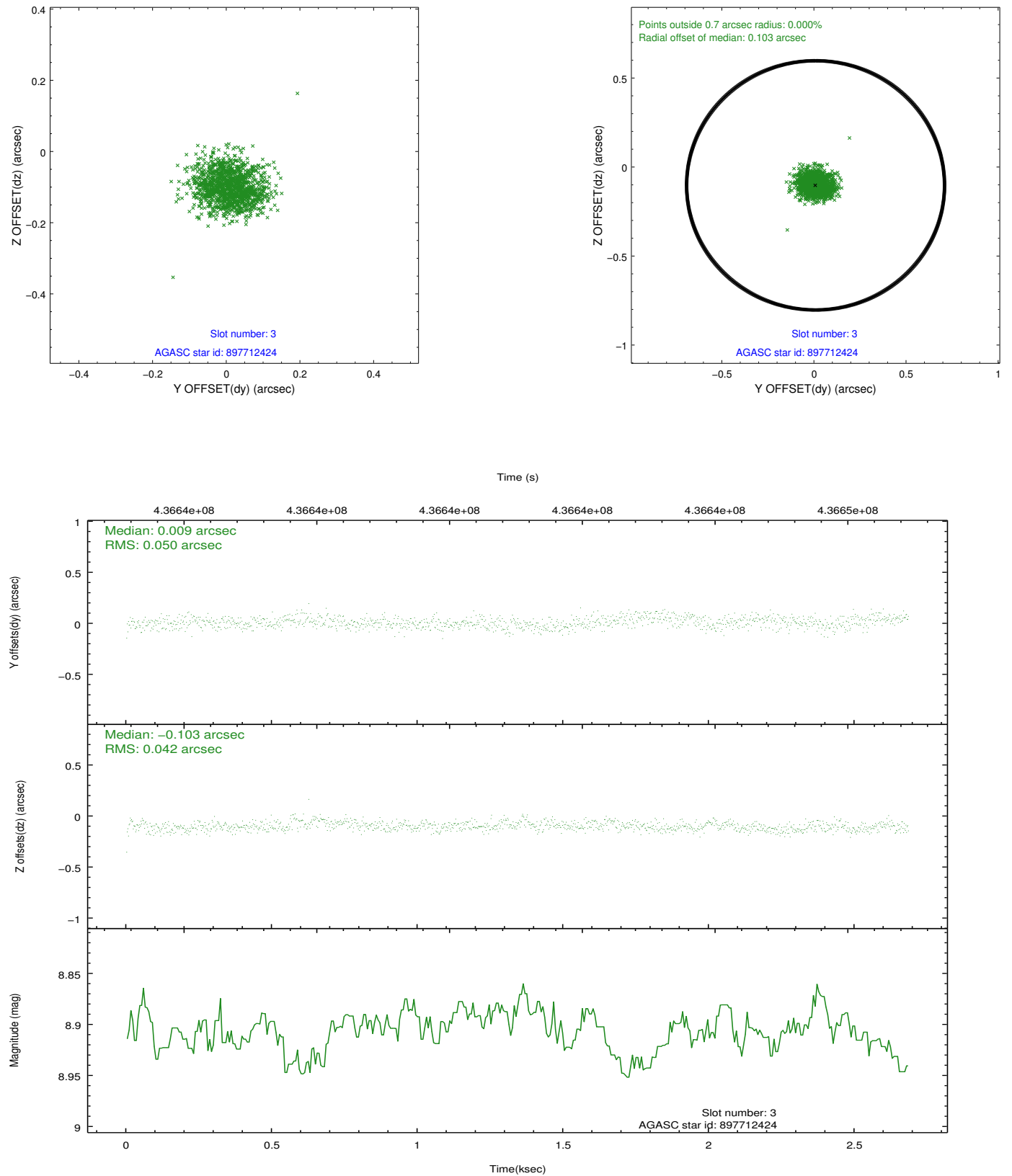
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	655	0.053	0.003	0.007	0.012	0.000000	0.000000	928.03	-836.76
1	FID	ACIS-I-5	7.05	655	-0.202	0.066	0.007	0.013	0.000000	0.000000	-1819.01	1059.58
2	FID	ACIS-I-6	7.06	655	0.057	0.003	0.008	0.012	0.000000	0.000000	390.97	1706.75
3	GUIDE	897712424	8.91	1310	0.009	-0.103	0.069	0.111	269.567786	-28.090711	1323.70	465.57
4	GUIDE	897712808	8.73	1307	0.158	0.015	0.071	0.115	268.777505	-27.542029	-471.97	-2180.51
5	GUIDE	897862152	9.27	1310	-0.096	0.126	0.095	0.159	270.075629	-28.076037	1167.87	2070.51
6	GUIDE	898236888	8.69	1310	0.094	-0.083	0.068	0.110	269.539947	-28.141730	1513.76	391.06
7	GUIDE	897726344	8.90	1303	-0.162	0.039	0.086	0.140	268.964610	-27.035045	-2335.37	-1713.76

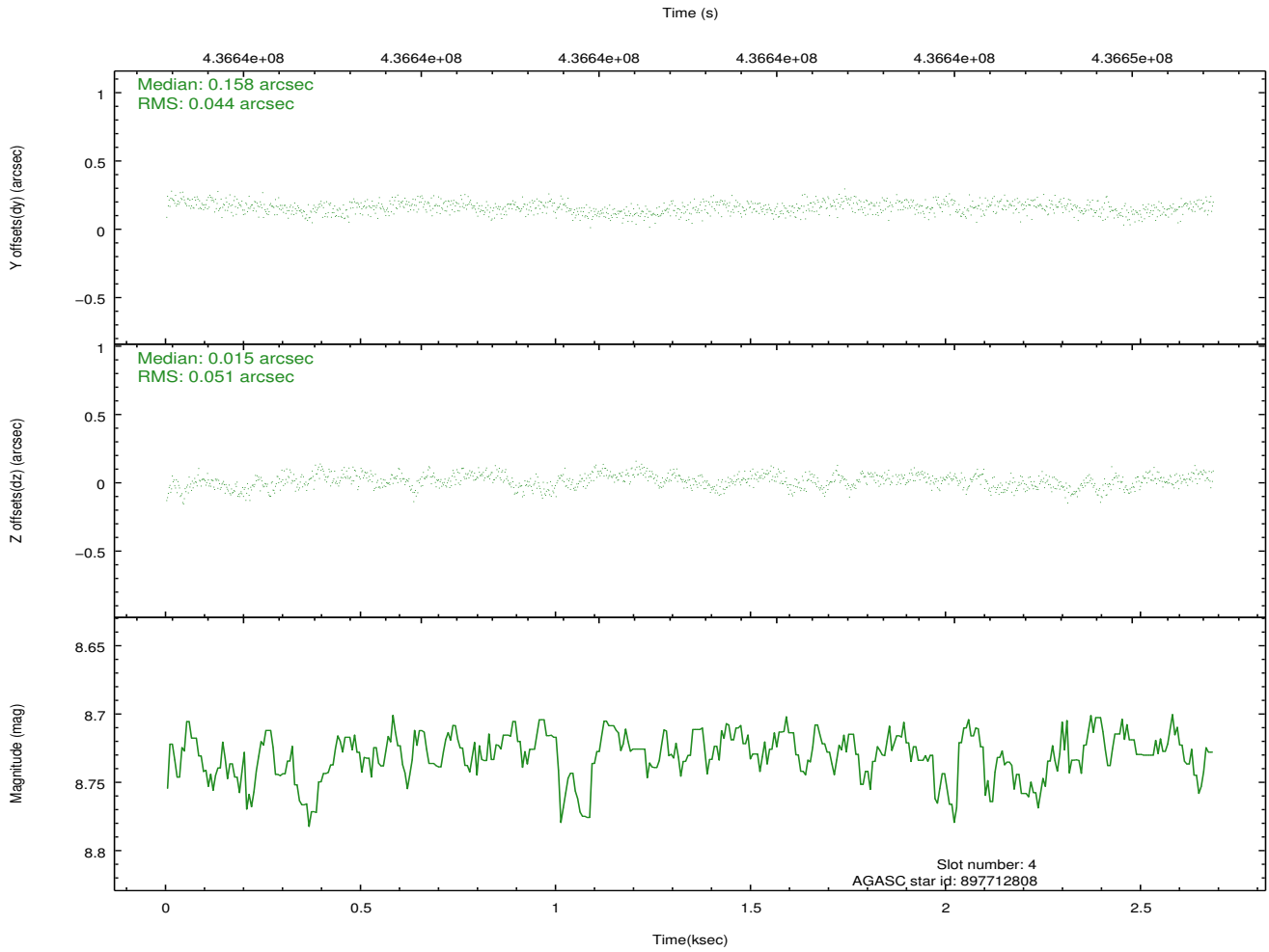
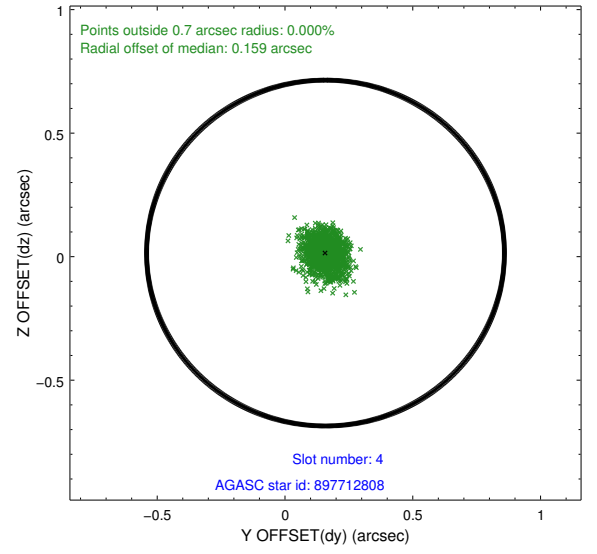
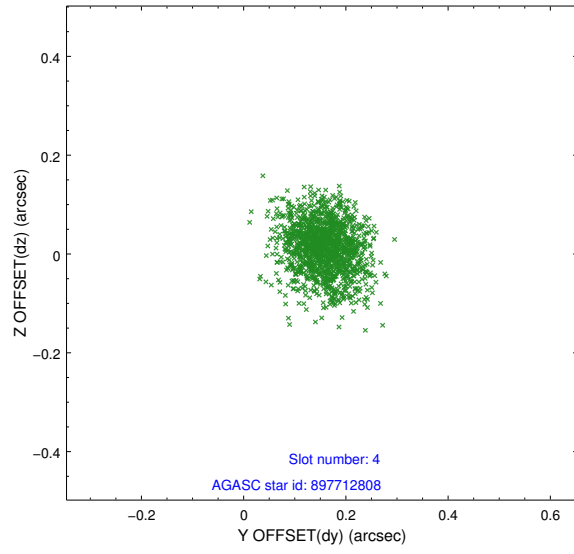


## 2.4 Star Slots

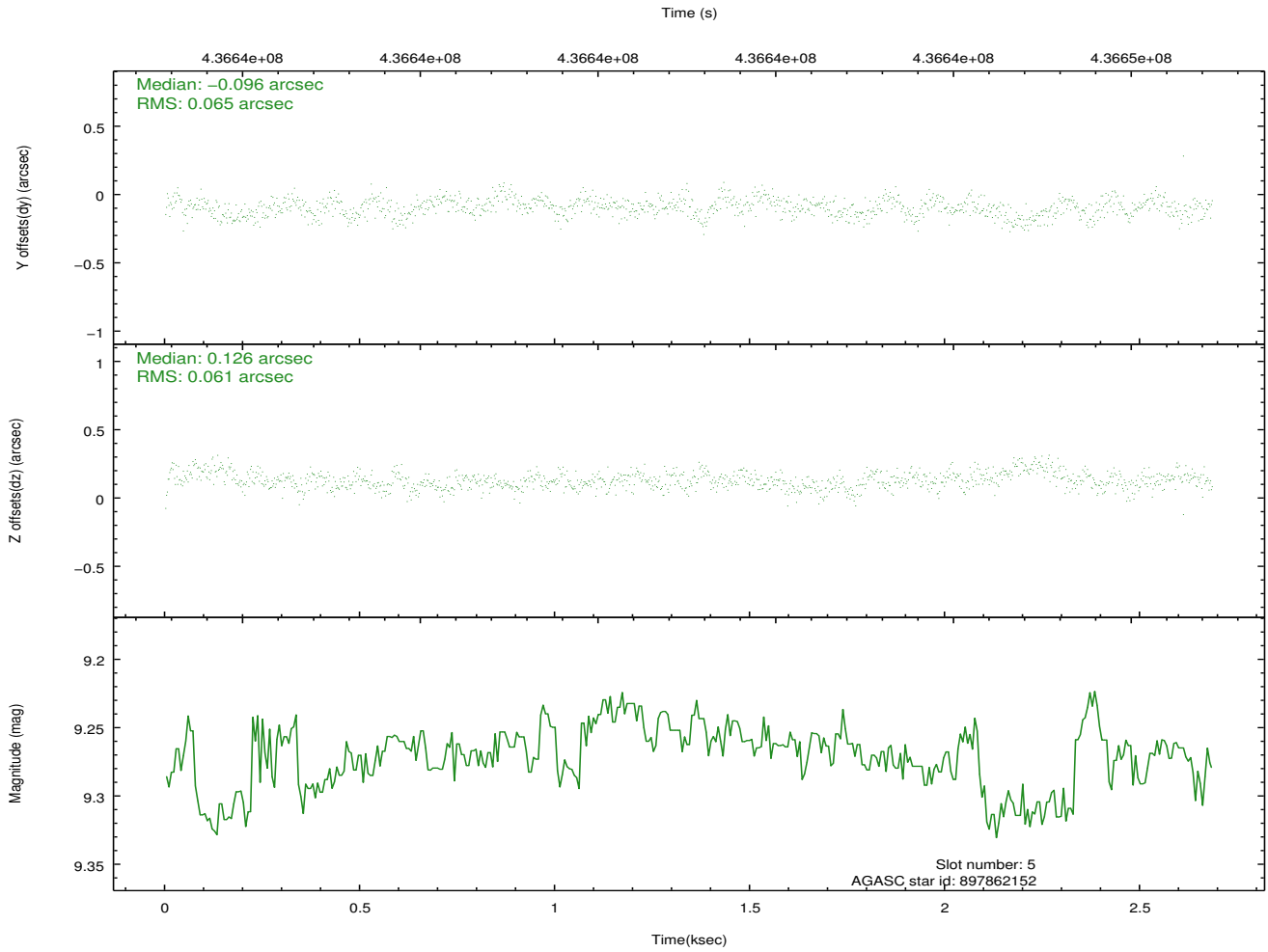
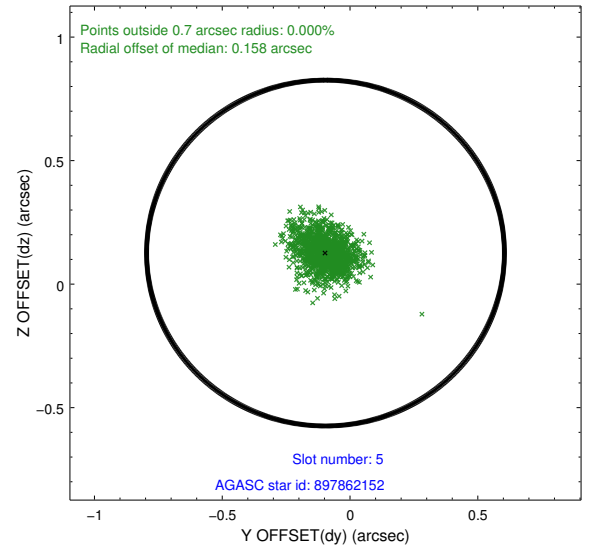
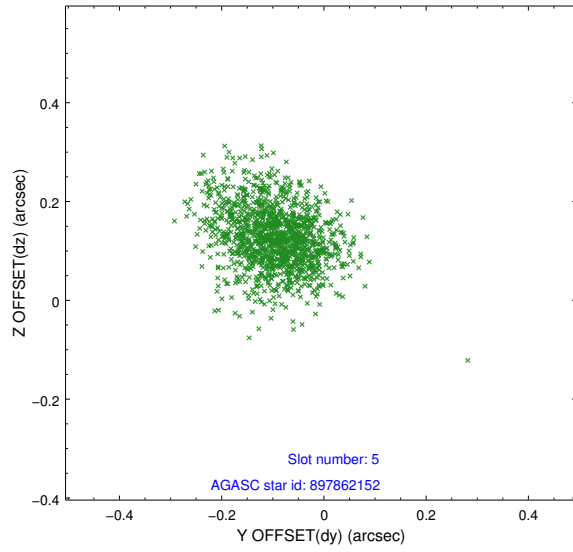
### 2.4.1 Slot 3



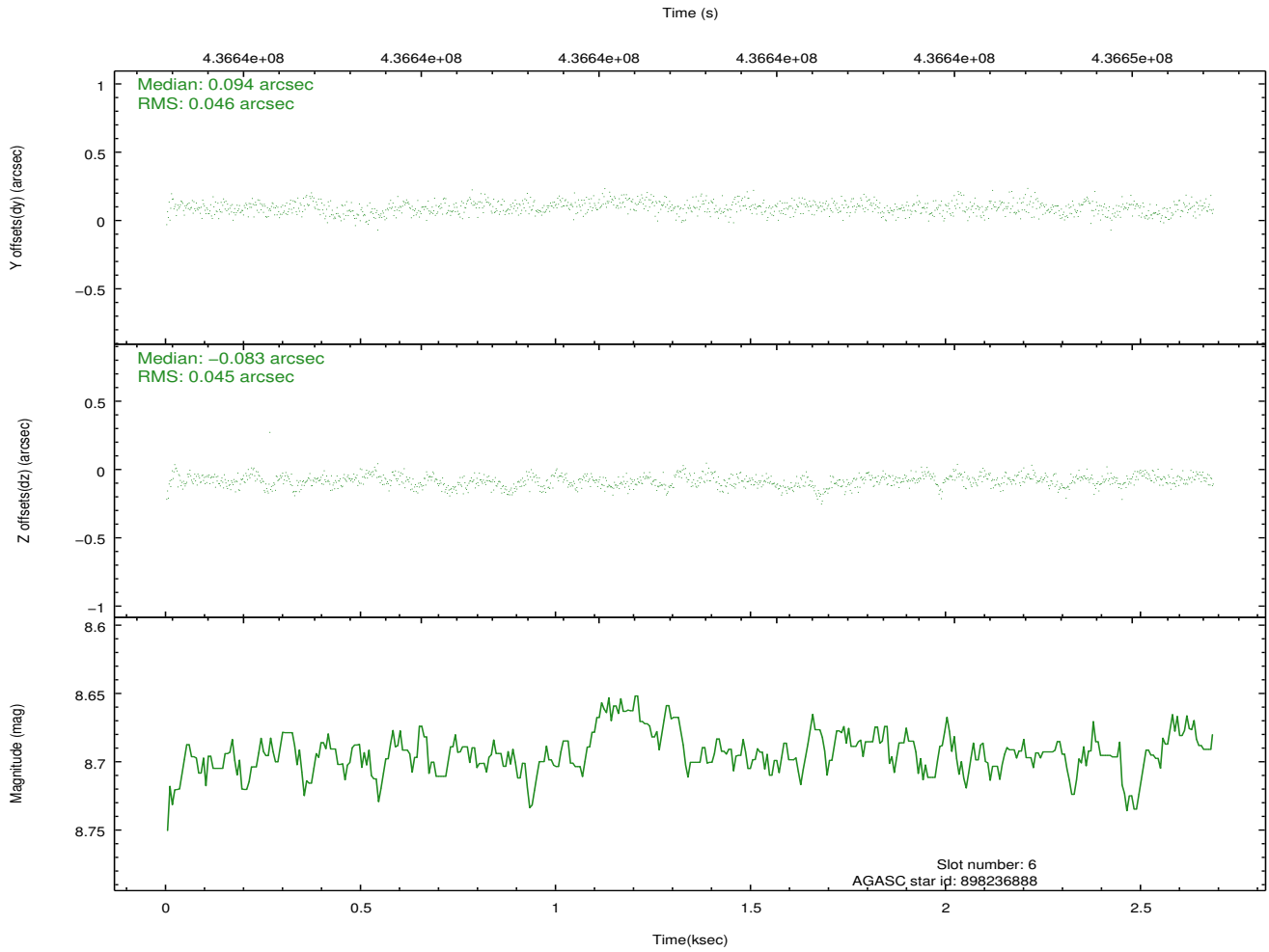
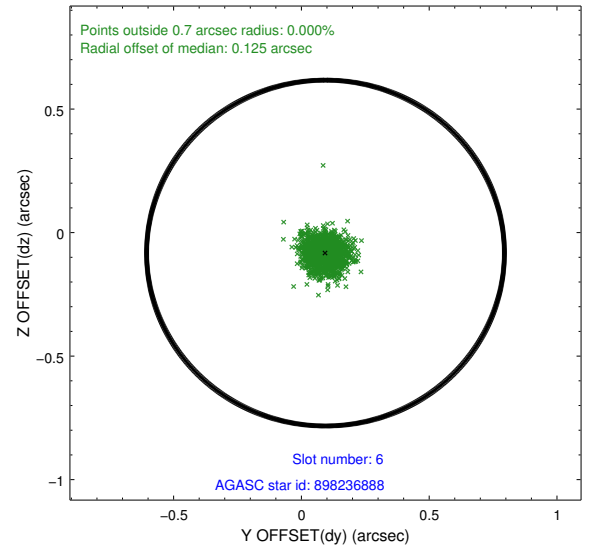
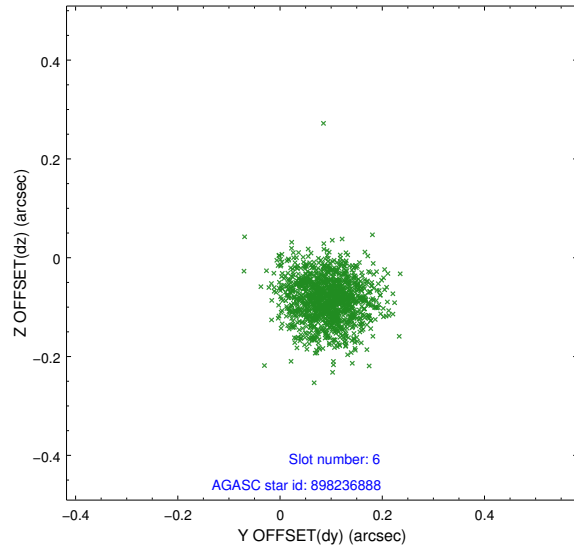
## 2.4.2 Slot 4



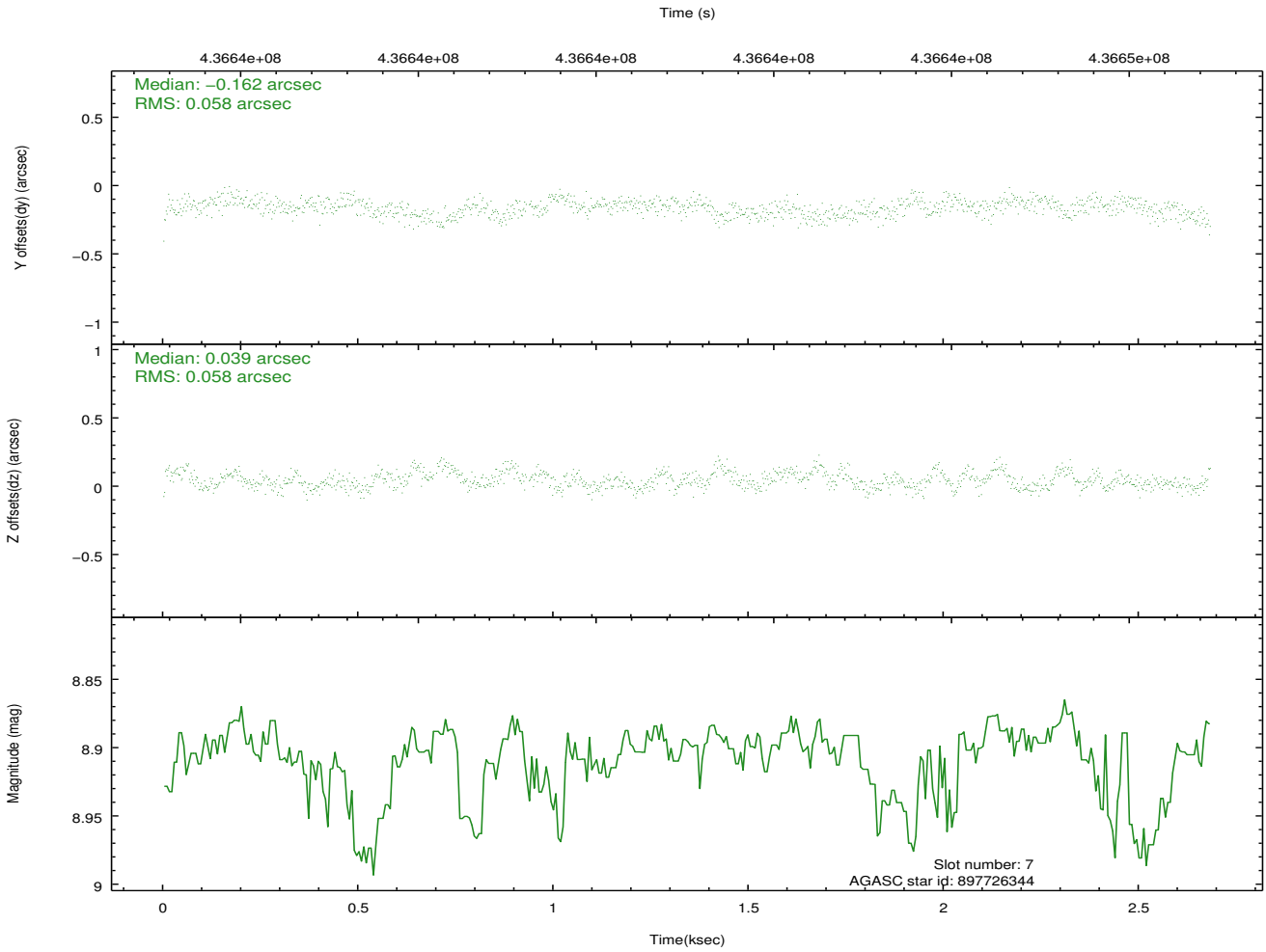
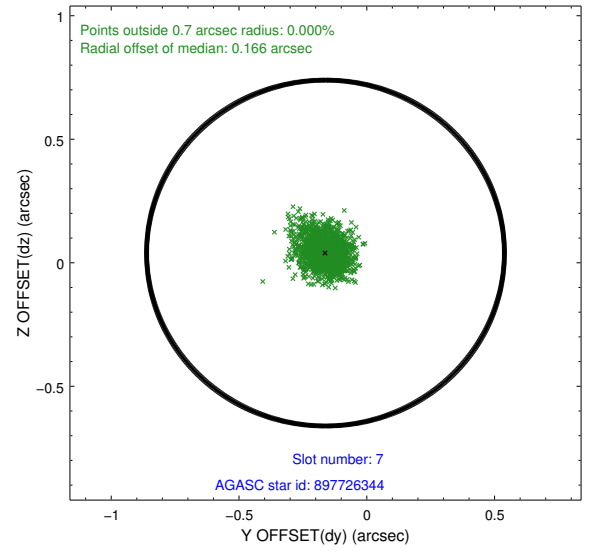
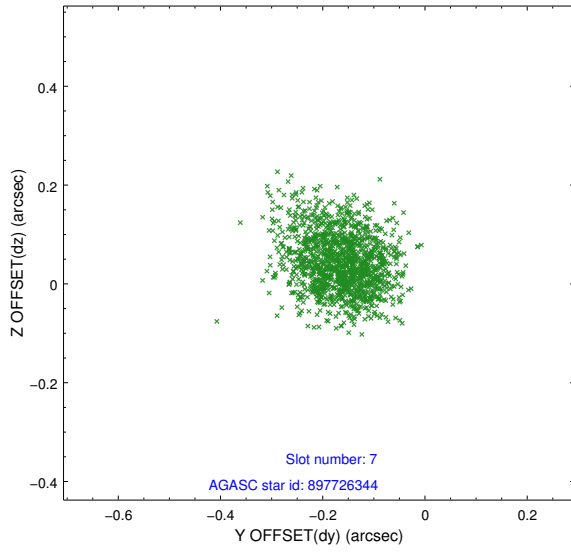
### 2.4.3 Slot 5



## 2.4.4 Slot 6

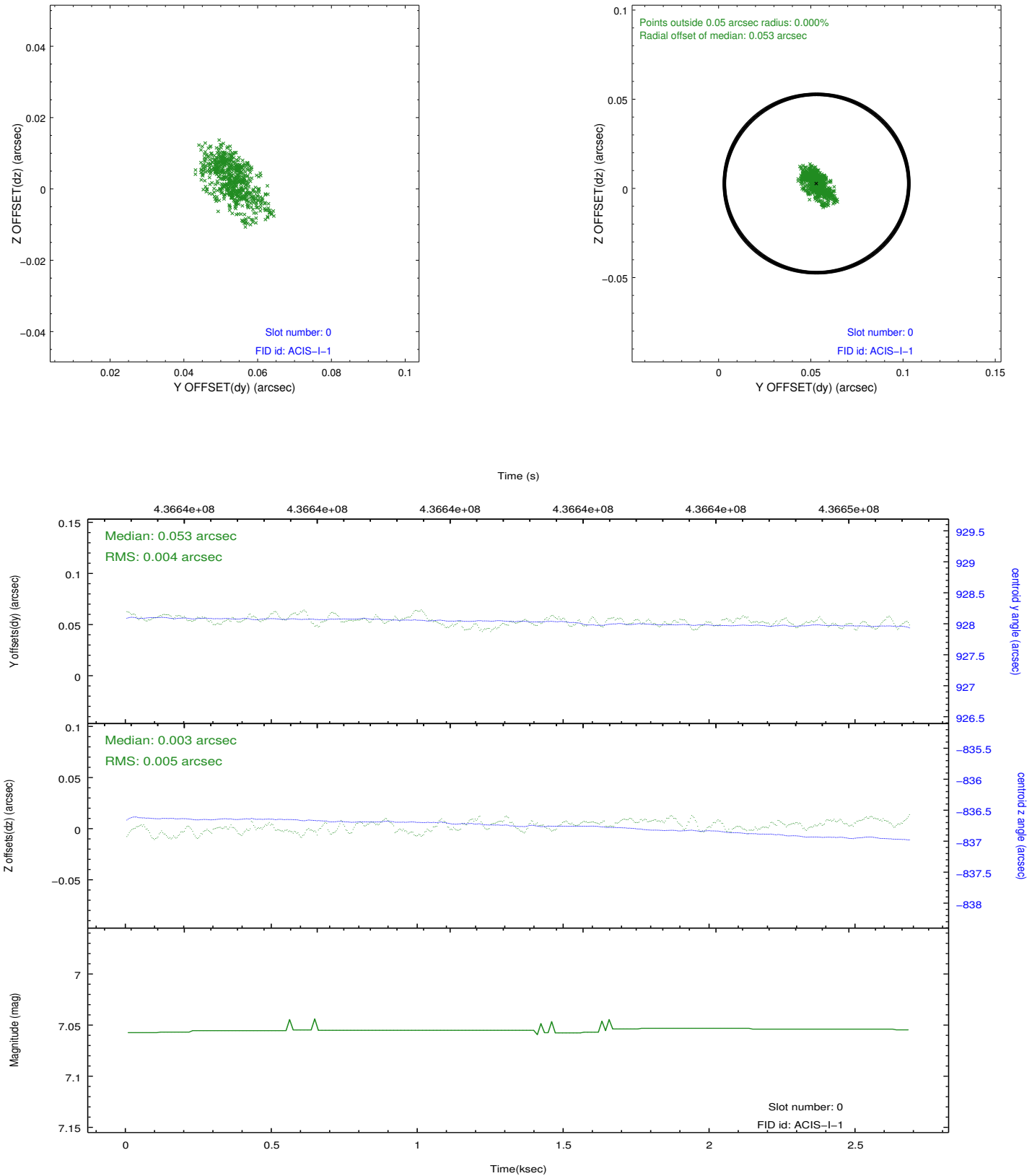


## 2.4.5 Slot 7

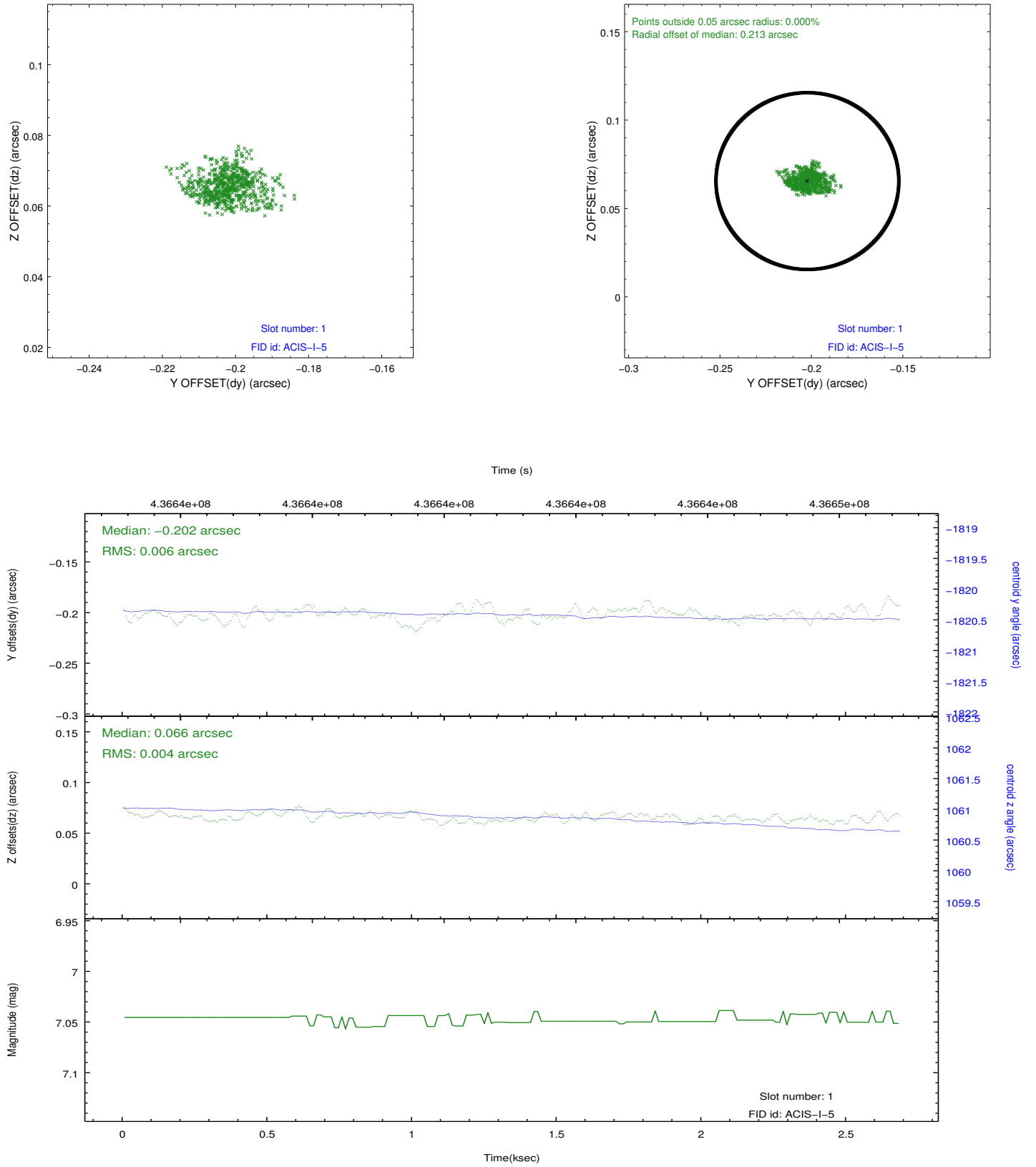


## 2.5 FID Slots

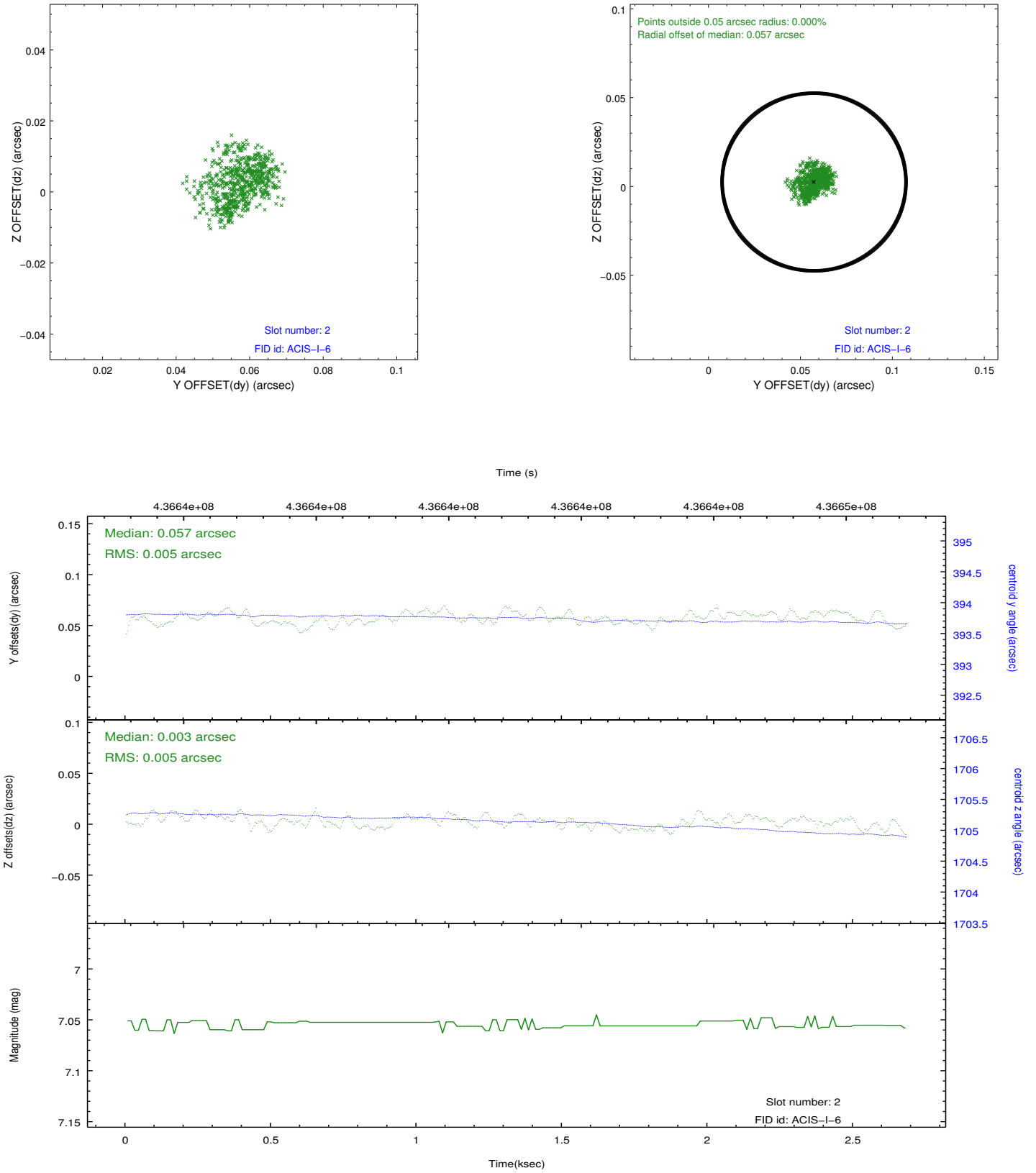
### 2.5.1 Slot 0



## 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	2.0677000159025

### A.2 Comments

Joint Proposal: NOAO