

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10005 - L2 Version 2  
Chandra X-Ray Center

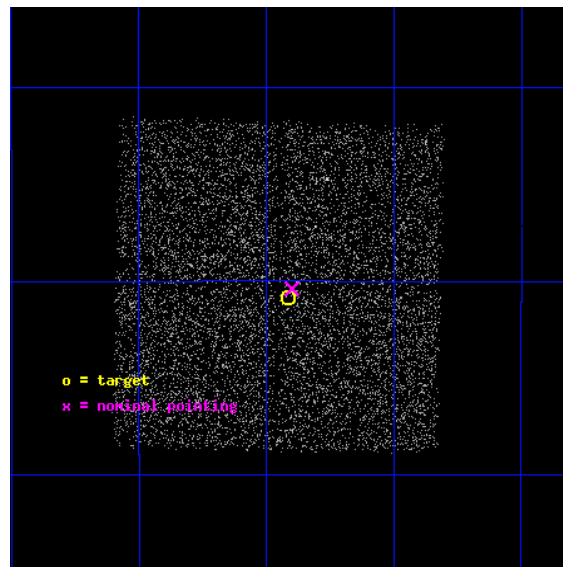
L2 Processing Date : Jun 1 2012

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# 1 Front

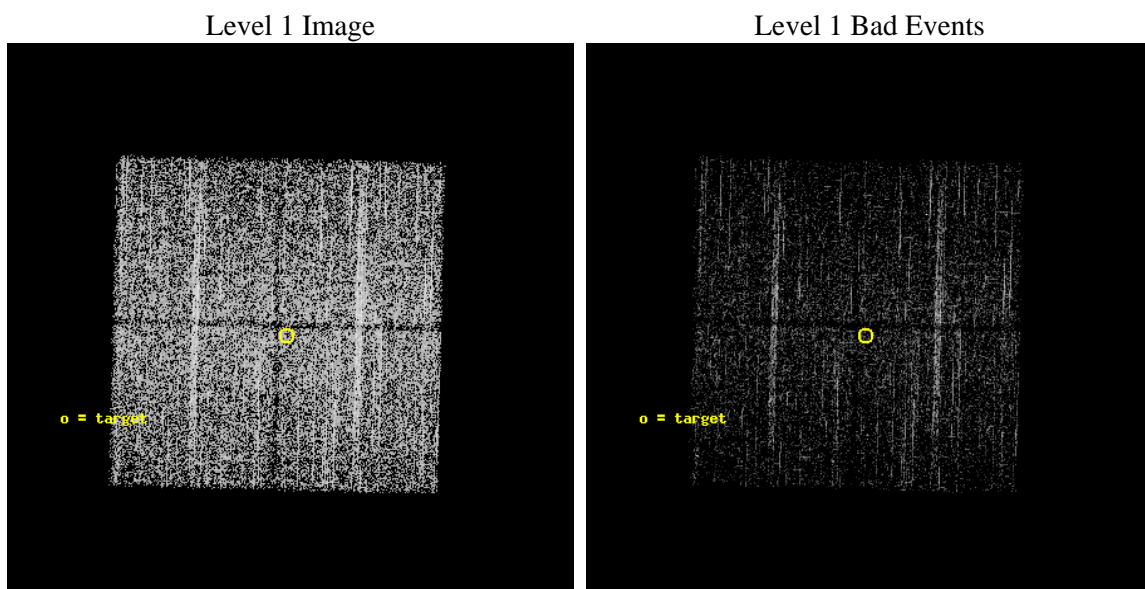
seq_num	400969	Sequence number
obs_id	10005	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS5-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.102958	Observer's specified target RA [deg]
dec_targ	-27.180833	Observer's specified target Dec [deg]
ra_nom	265.09996142577	Nominal RA [deg]
dec_nom	-27.173307517367	Nominal Dec [deg]
roll_nom	91.412902681333	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2182.3590564132	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
l2events	10362	Number of level 2 events



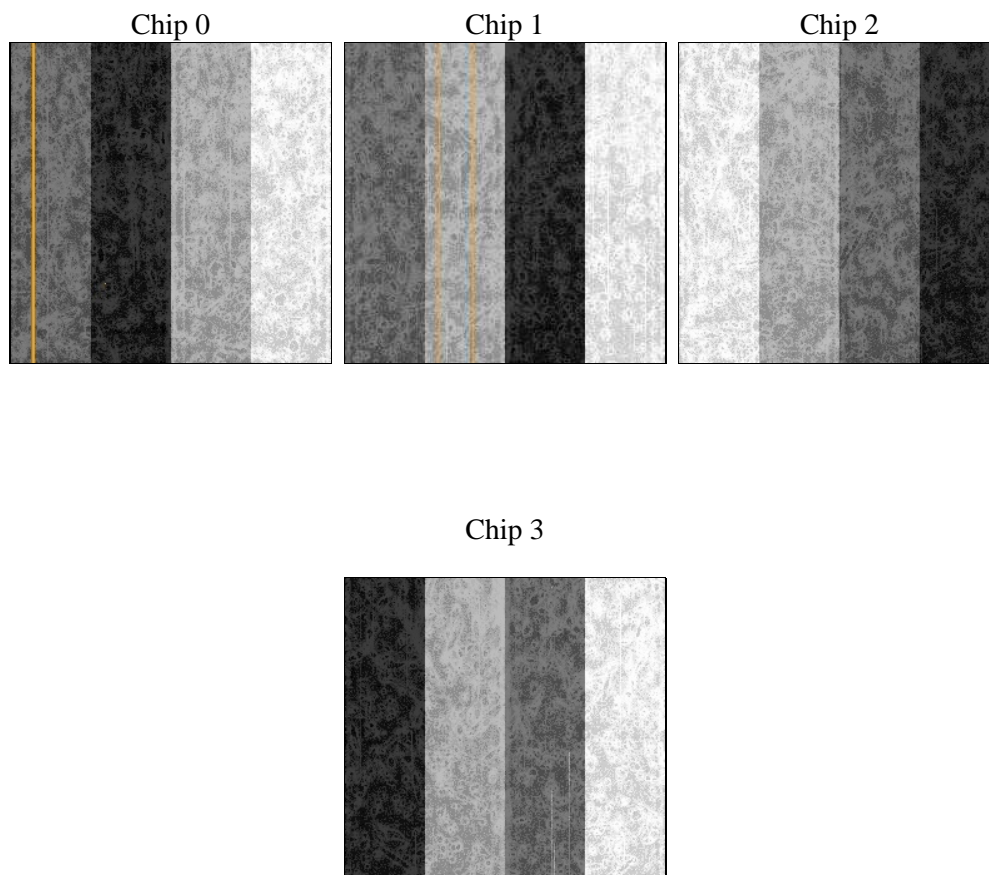
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-06-01T06:02:44	Date and time of file creation	ontime1	2182.3590564132	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			l1events	96745	Number of level 1 events

### 2.1.4 Events

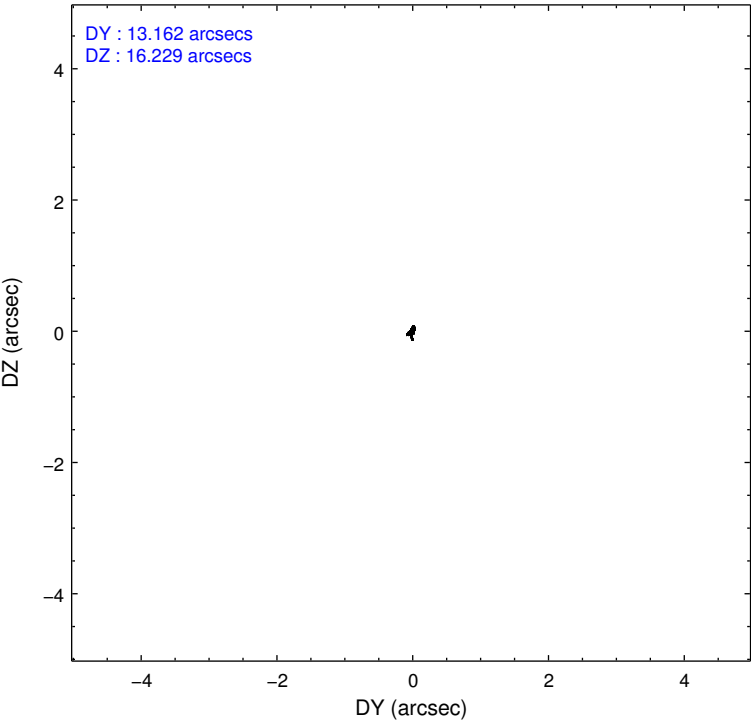
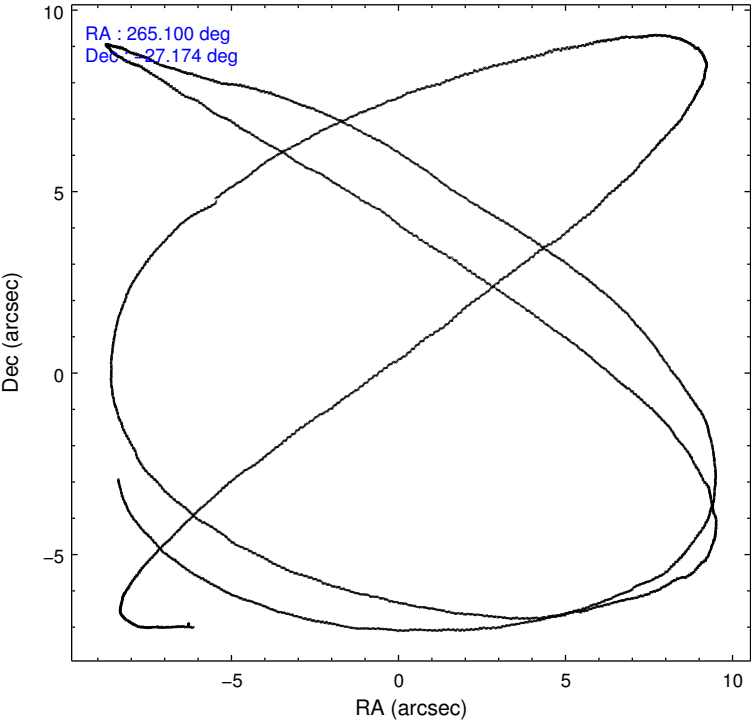
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	23040	23174	25790	24741
rejected events	20003	20082	22877	21887
rejected %	86%	86%	88%	88%

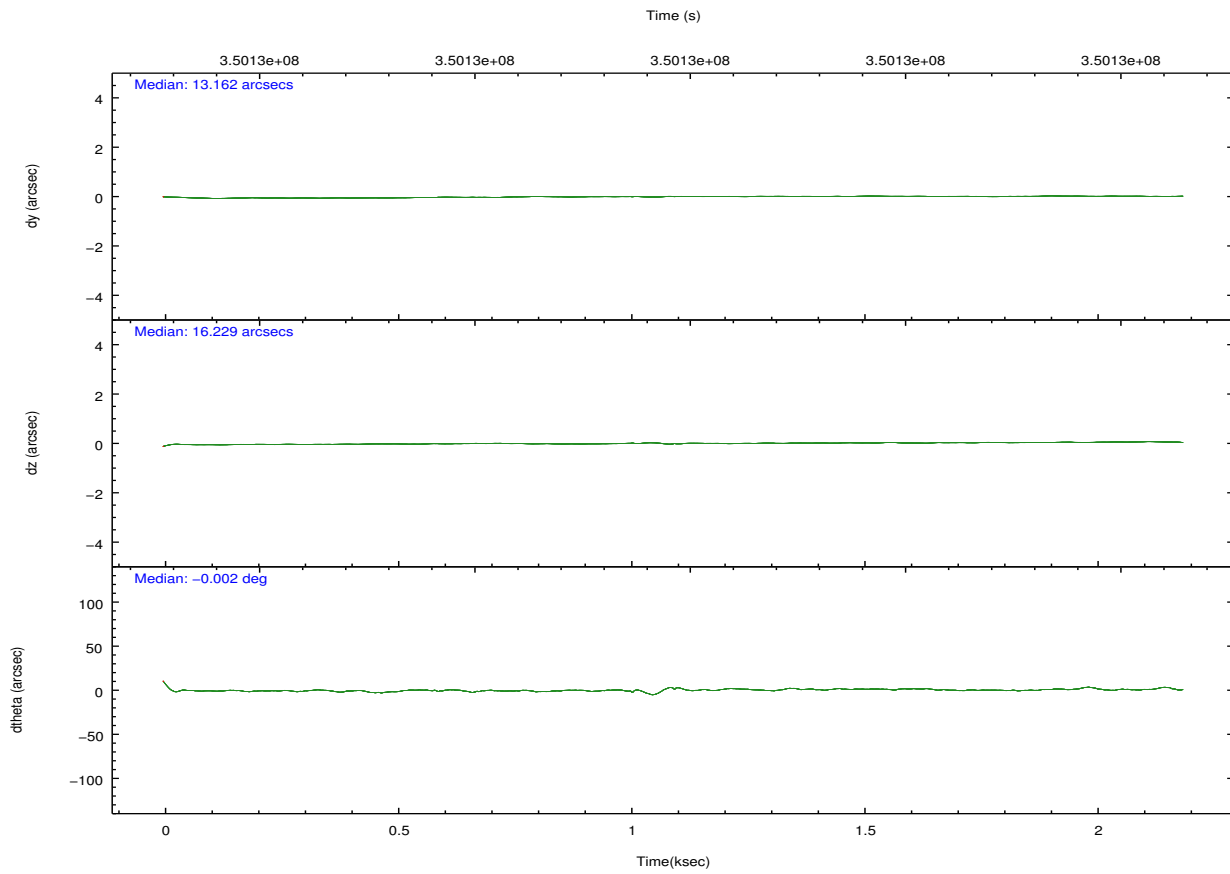
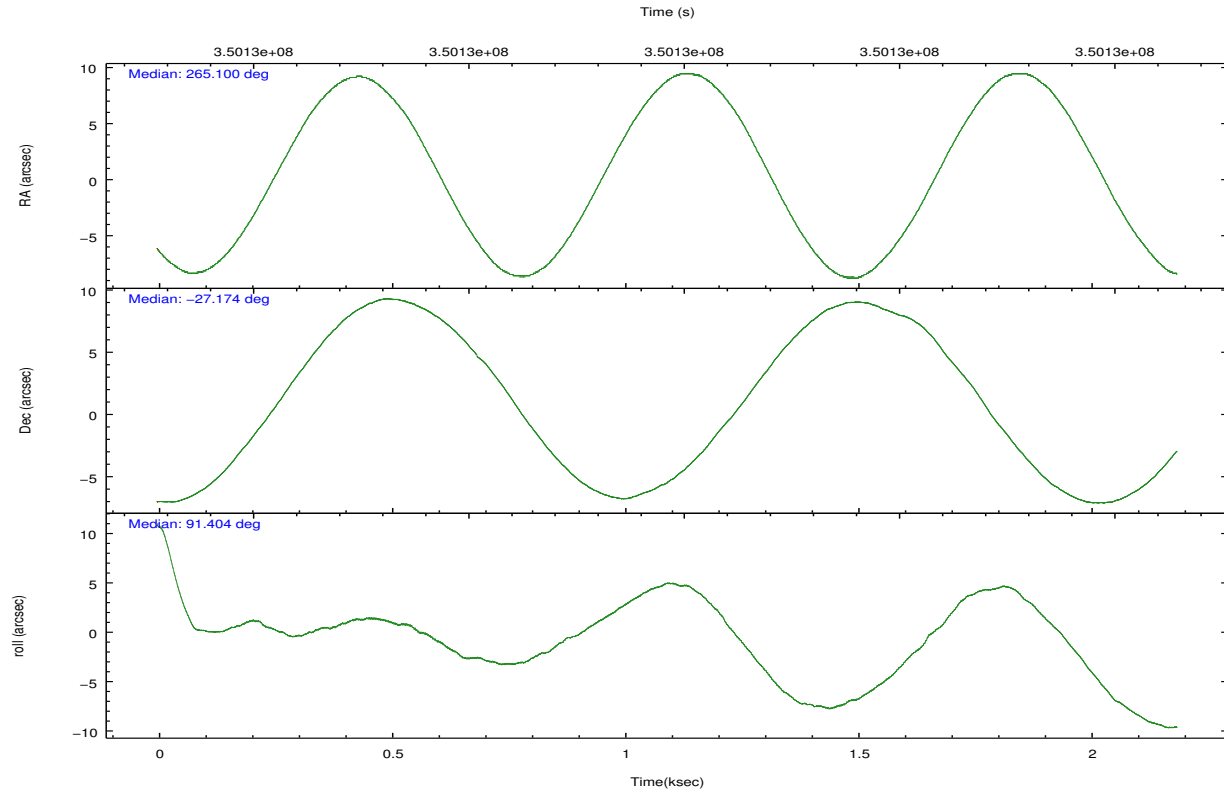
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1555	1514	1703	1521
	6%	6%	6%	6%
grade 1 events	16	14	23	32
	0%	0%	0%	0%
grade 2 events	756	797	669	632
	3%	3%	2%	2%
grade 3 events	289	283	257	268
	1%	1%	0%	1%
grade 4 events	292	357	286	281
	1%	1%	1%	1%
grade 5 events	1053	1160	1009	1135
	4%	5%	3%	4%
grade 6 events	561	612	494	562
	2%	2%	1%	2%
grade 7 events	18518	18437	21349	20310
	80%	79%	82%	82%

## 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	265.116263	265.0999614257685	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.196589	-27.17330751736672	Alternating exposures requested	N	N
[deg] Pointing Roll	91.211646	91.41290268133326	[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)	350132054.184000	350131677.60751			
Observation start date	2009-02-04T10:53:08	2009-02-04T10:47:57			
[s] Observation end time (MET)	350134054.184000	350134187.83264			
Observation end date	2009-02-04T11:26:28	2009-02-04T11:29:47			
Read mode	TIMED	TIMED			

2.3 Aspect





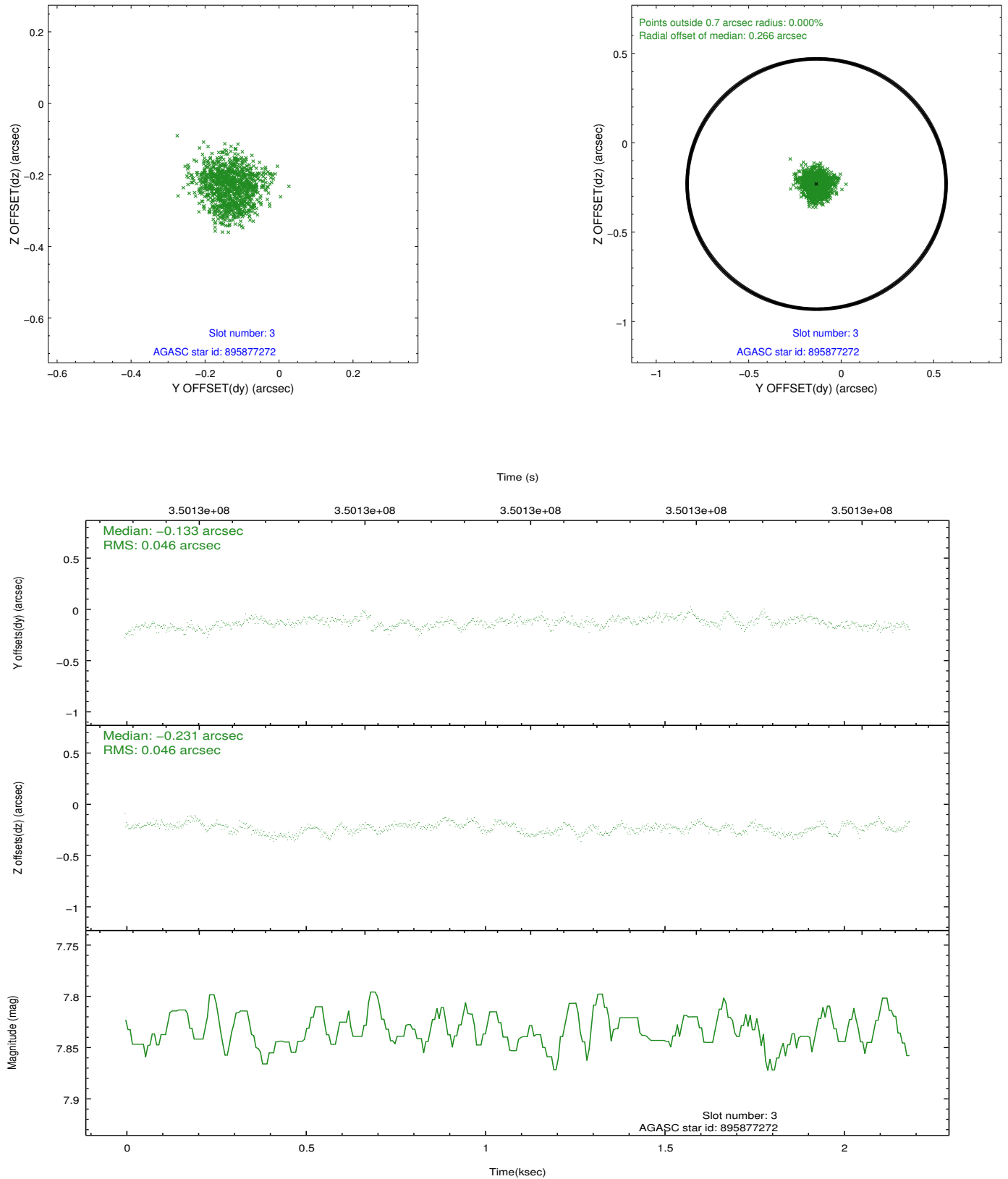
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	534	-0.053	-0.015	0.010	0.019	0.000000	0.000000	926.30	-839.88
1	FID	ACIS-I-2	6.94	533	-0.144	-0.050	0.015	0.021	0.000000	0.000000	-766.23	-847.85
2	FID	ACIS-I-4	6.93	534	0.098	0.134	0.012	0.018	0.000000	0.000000	2144.99	1058.56
3	GUIDE	895877272	7.84	1068	-0.133	-0.231	0.071	0.109	264.774842	-26.937569	953.74	1075.64
4	GUIDE	895879392	9.13	1066	0.133	-0.156	0.077	0.134	264.792874	-27.441876	-860.70	1052.18
5	GUIDE	895879840	7.21	1068	0.046	0.085	0.053	0.083	265.218397	-27.395778	-724.01	-310.27
6	GUIDE	895882464	8.80	1066	-0.167	0.126	0.074	0.121	265.568948	-26.820420	1320.73	-1482.79
7	GUIDE	896013720	9.54	1064	0.117	0.171	0.129	0.238	265.847626	-27.261422	-287.19	-2336.33

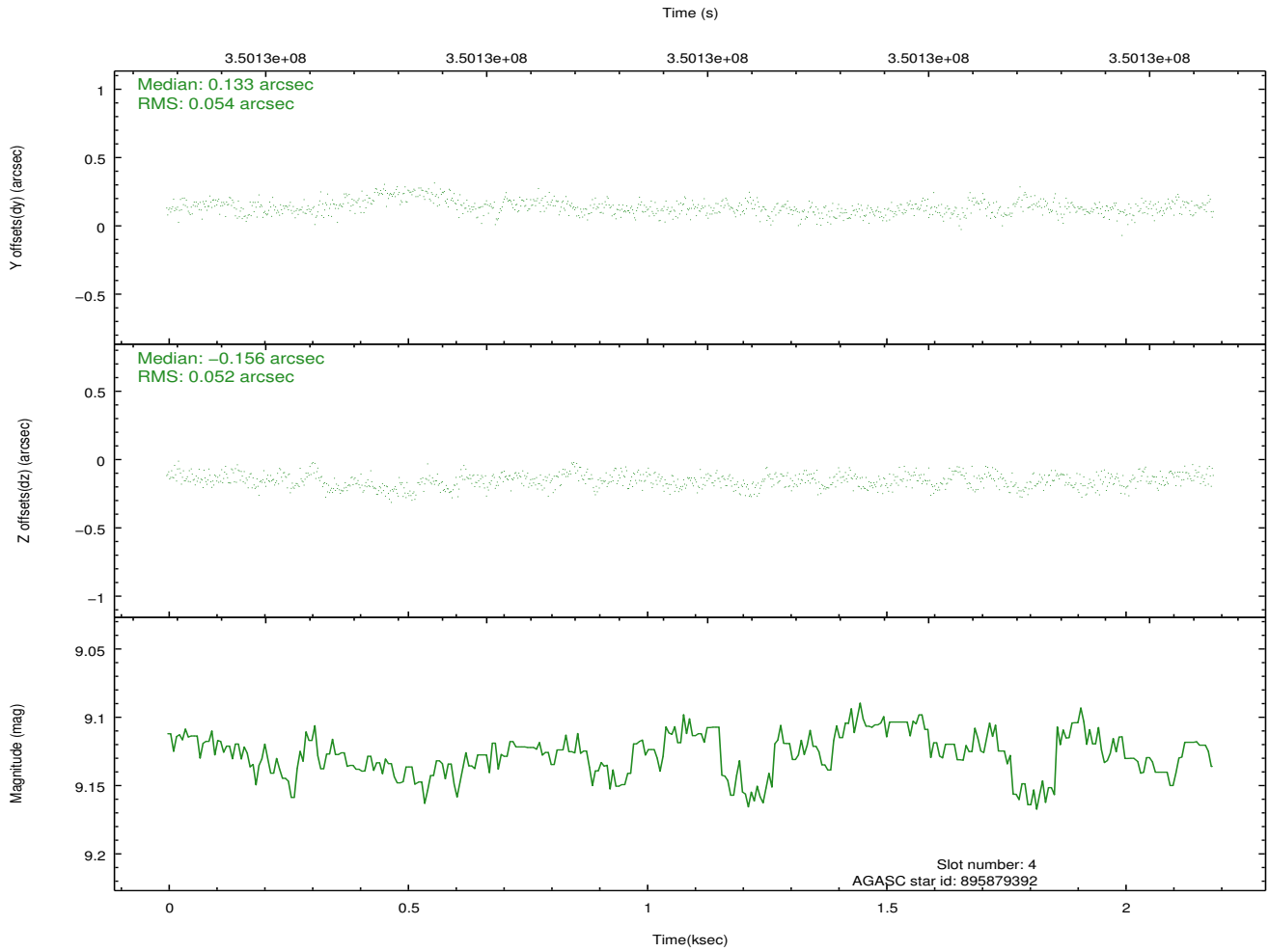
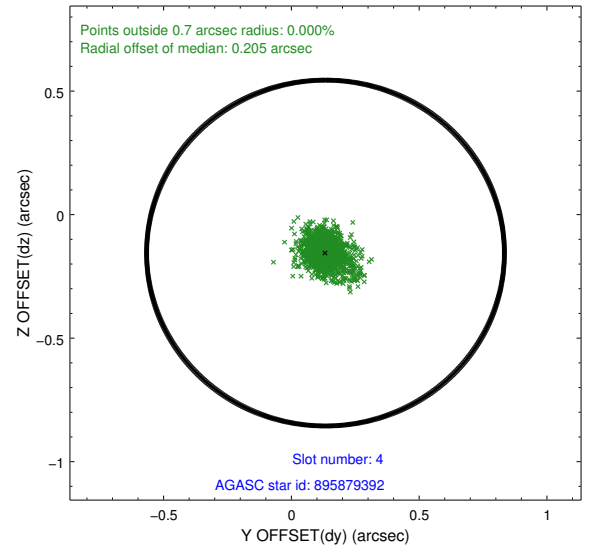
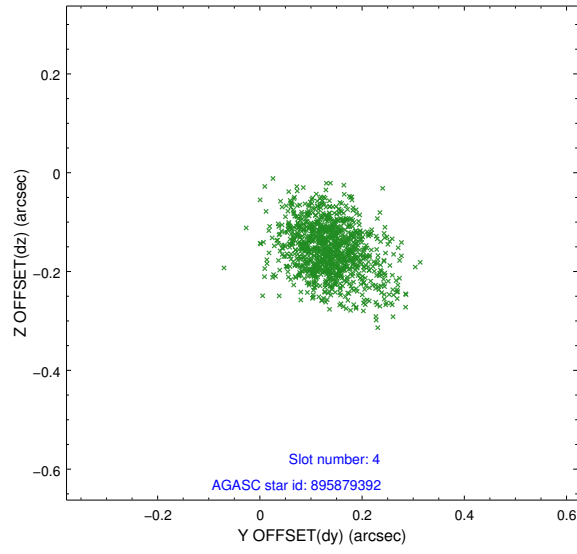


## 2.4 Star Slots

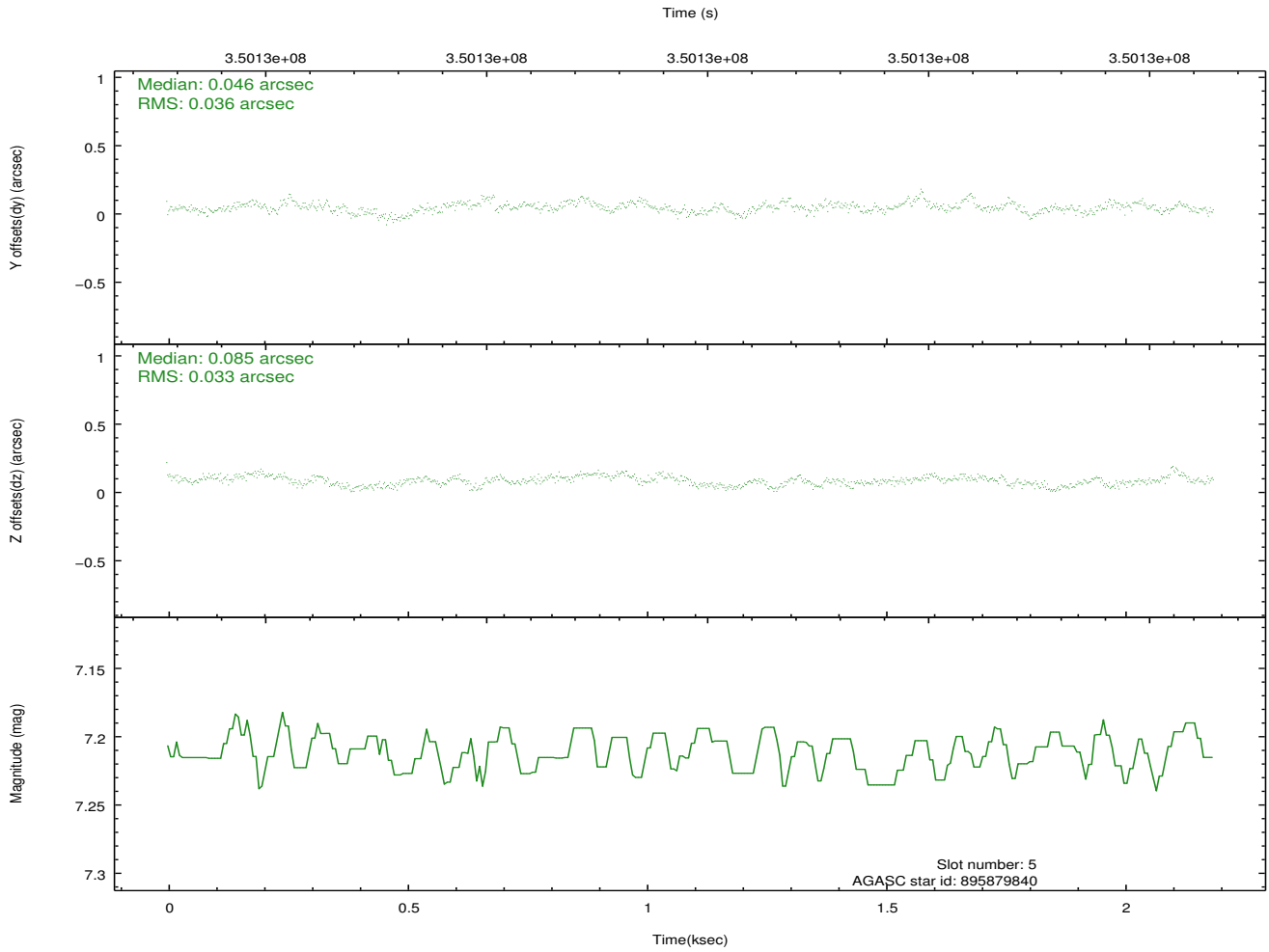
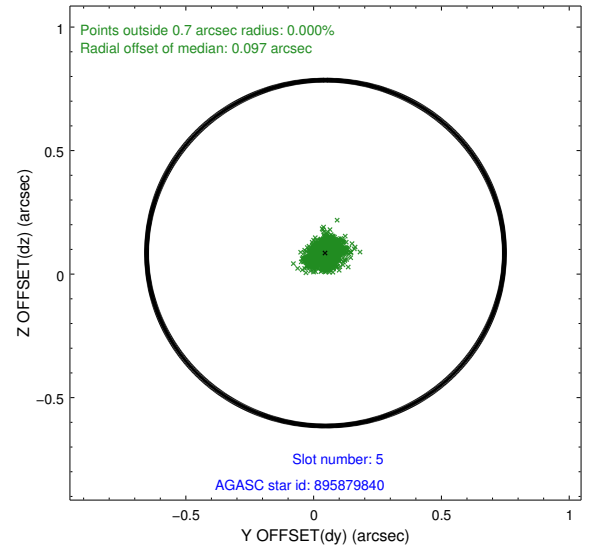
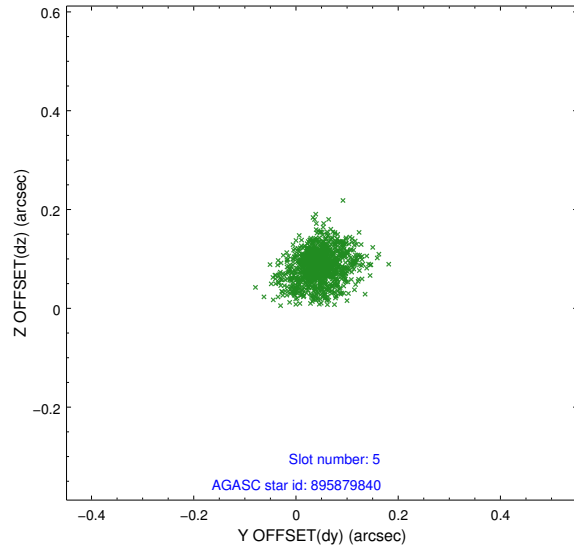
### 2.4.1 Slot 3



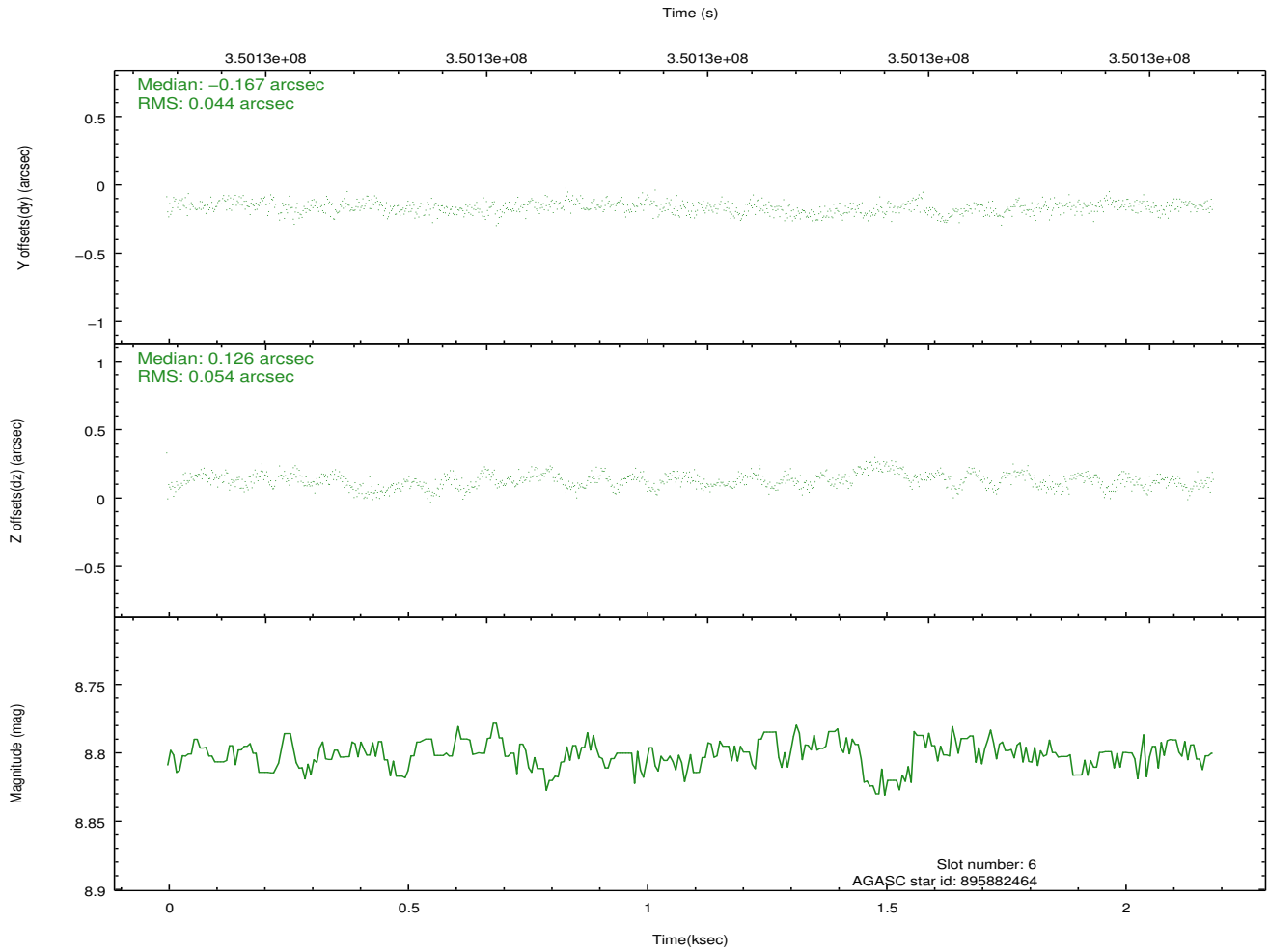
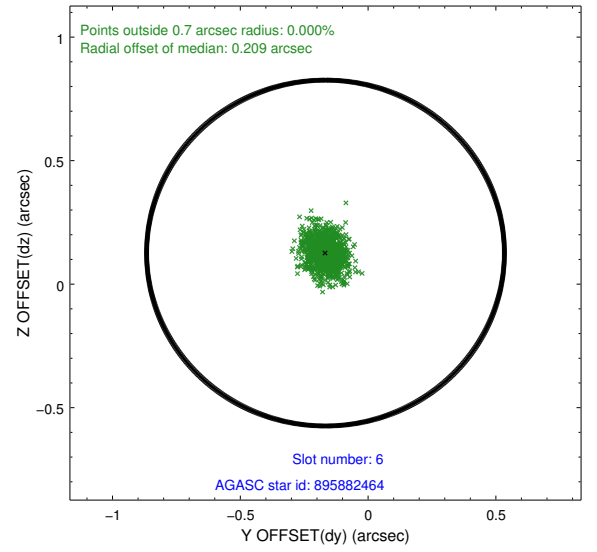
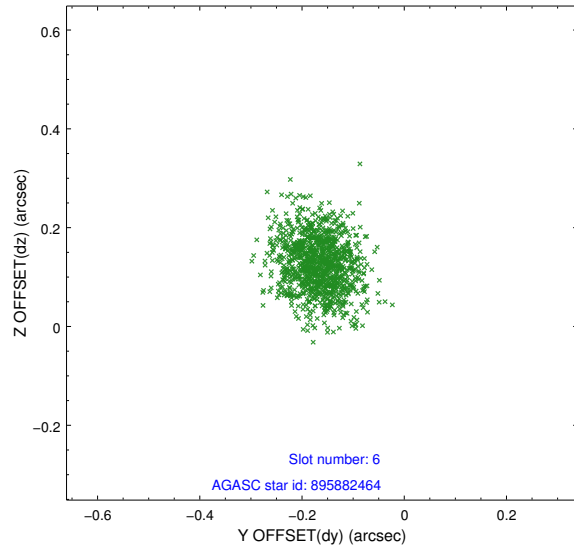
## 2.4.2 Slot 4



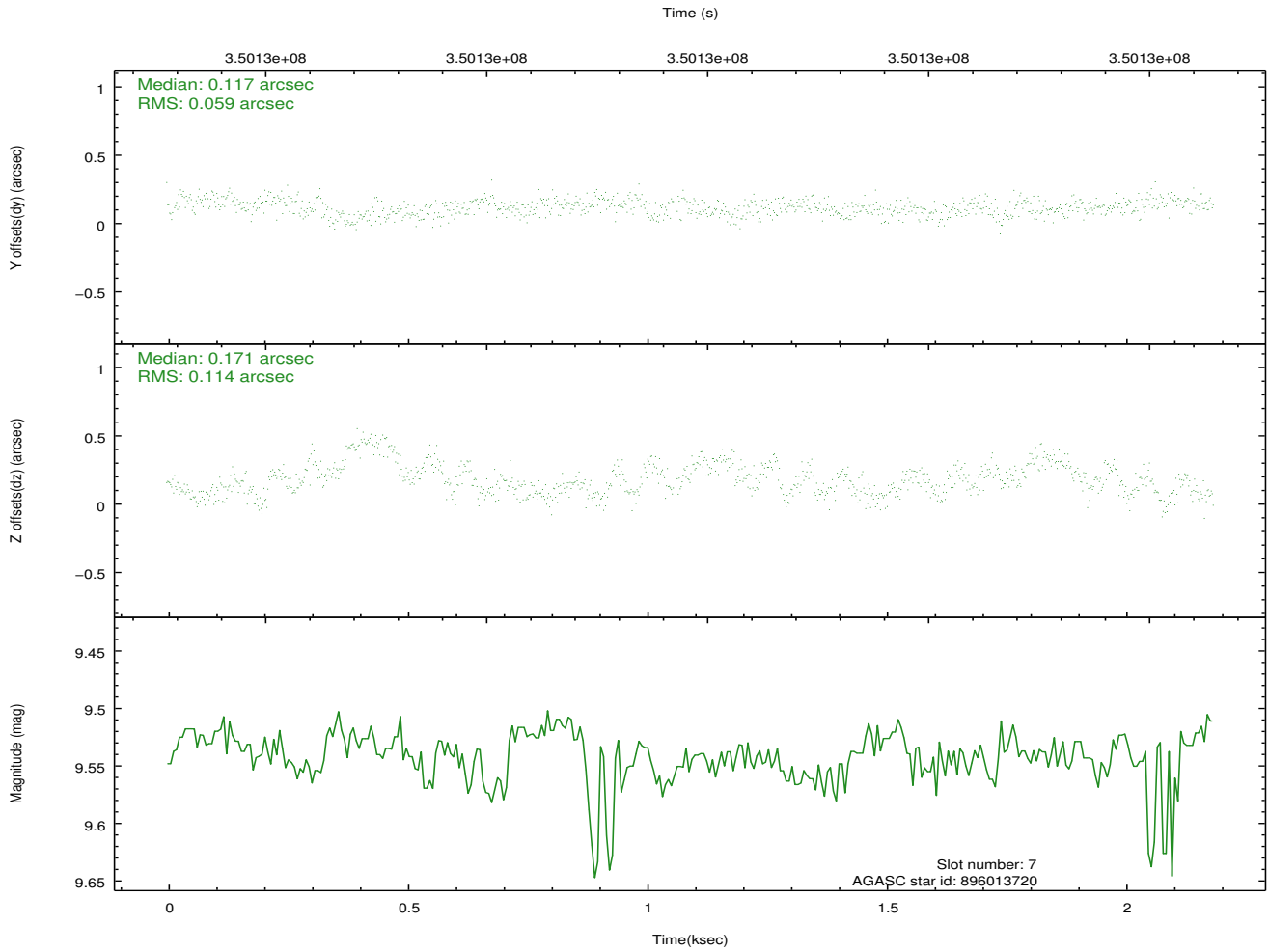
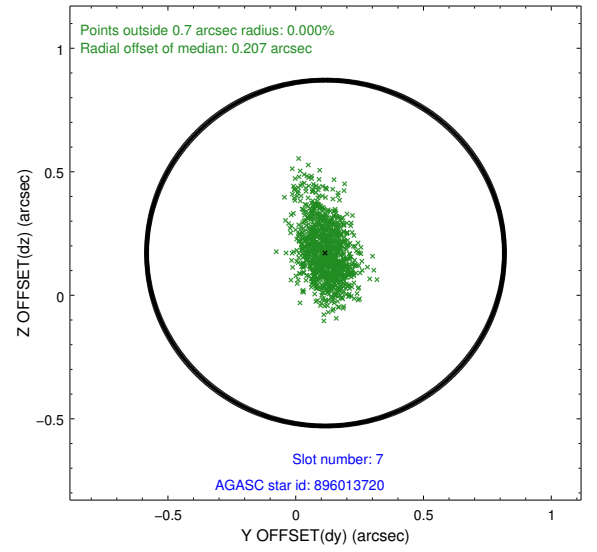
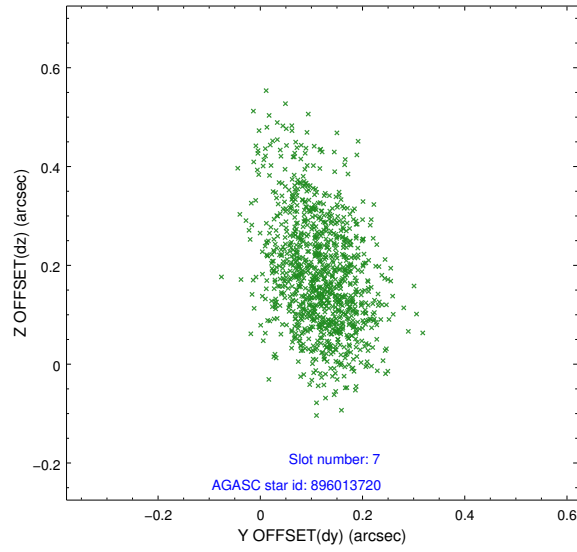
### 2.4.3 Slot 5



## 2.4.4 Slot 6

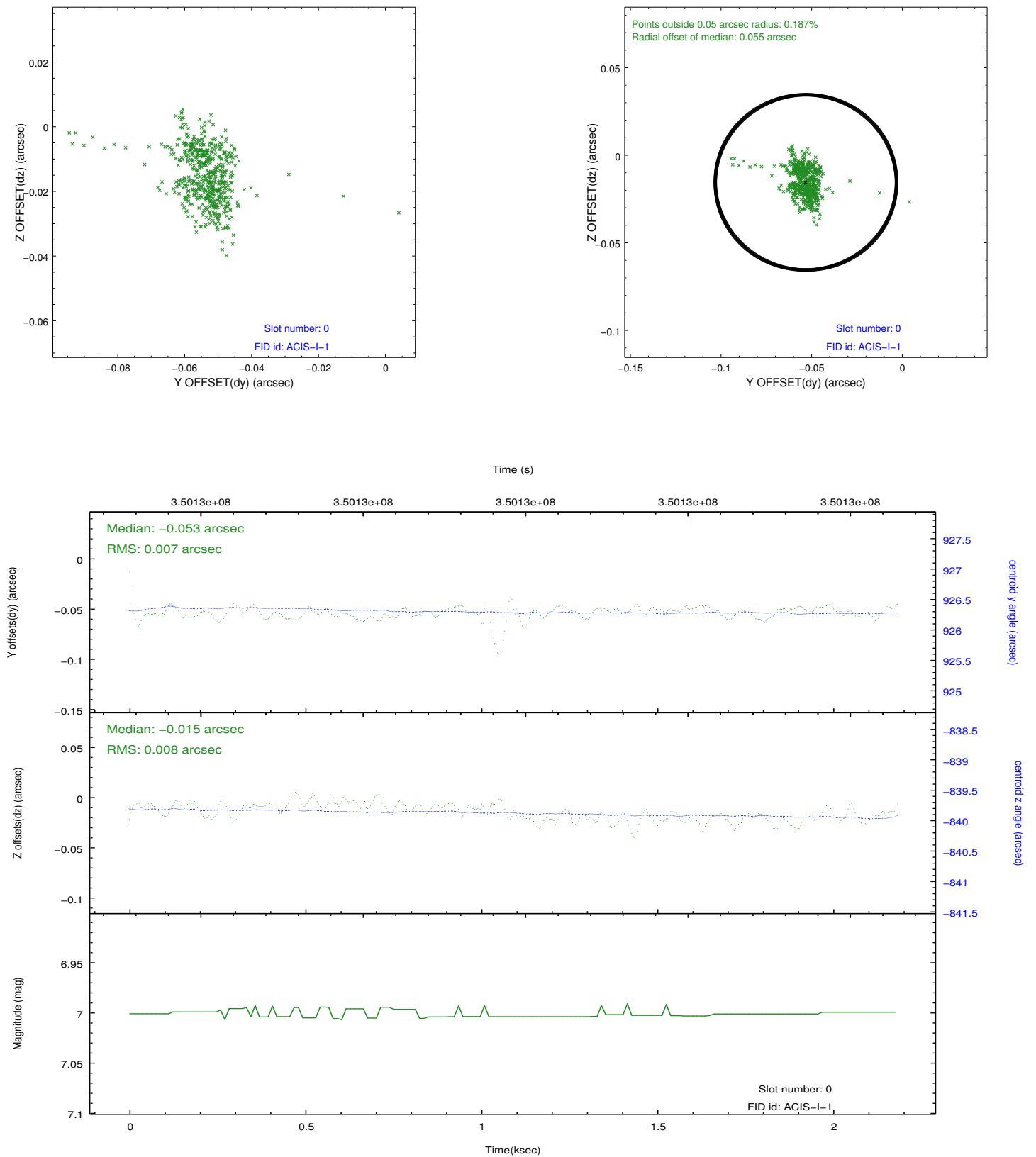


## 2.4.5 Slot 7

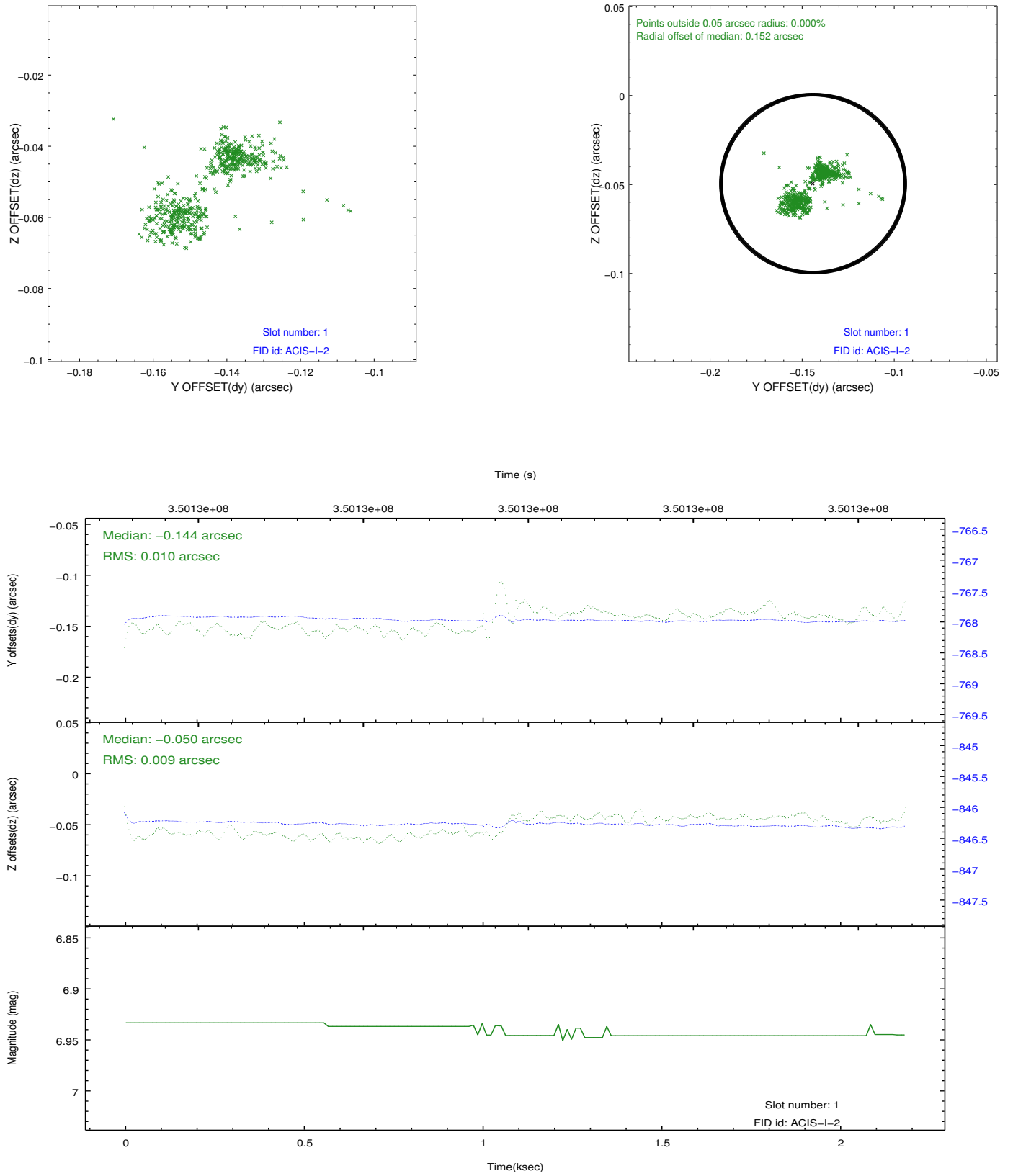


## 2.5 FID Slots

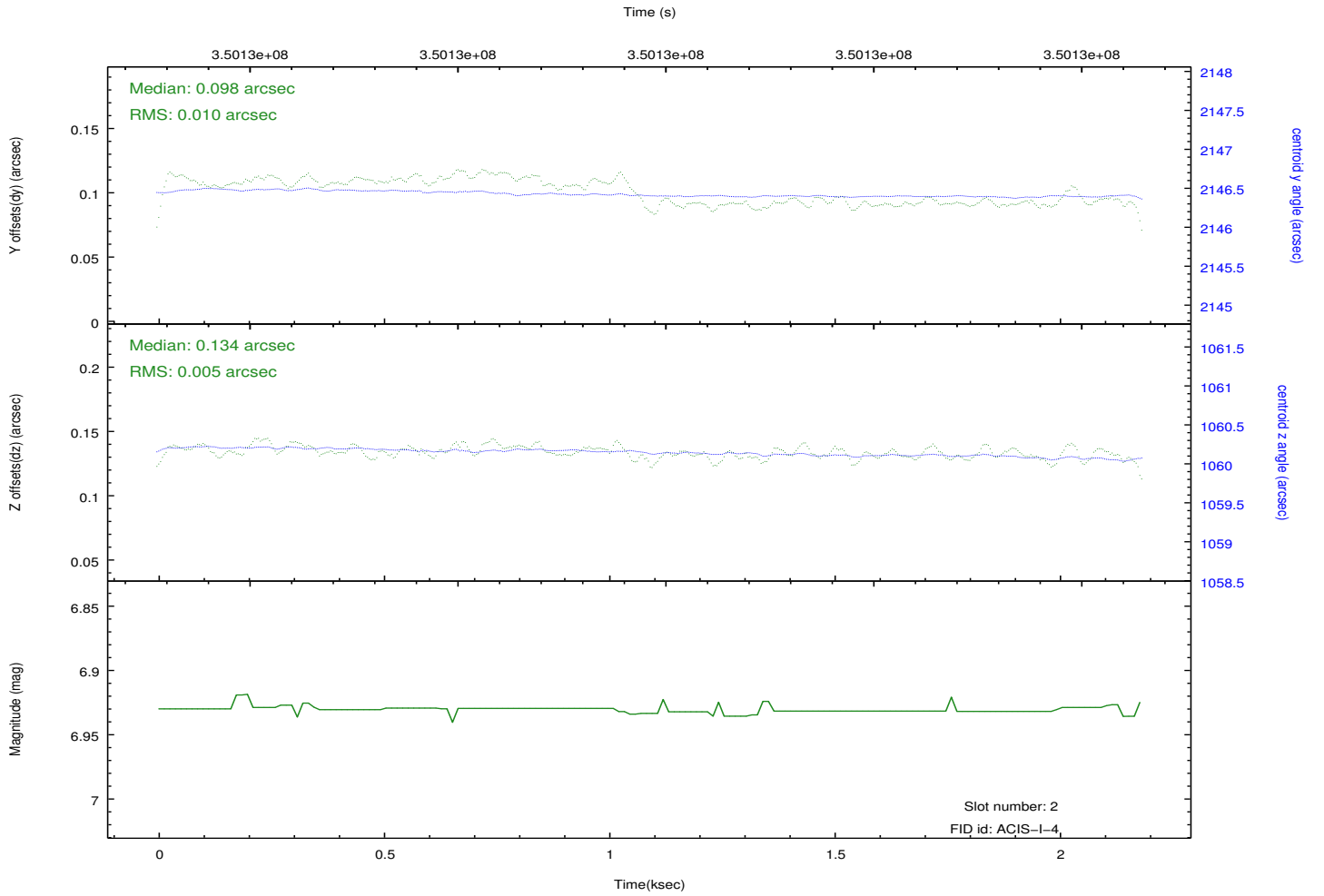
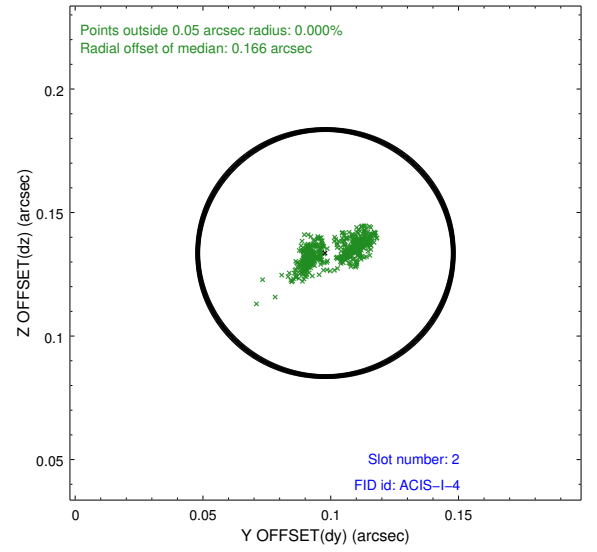
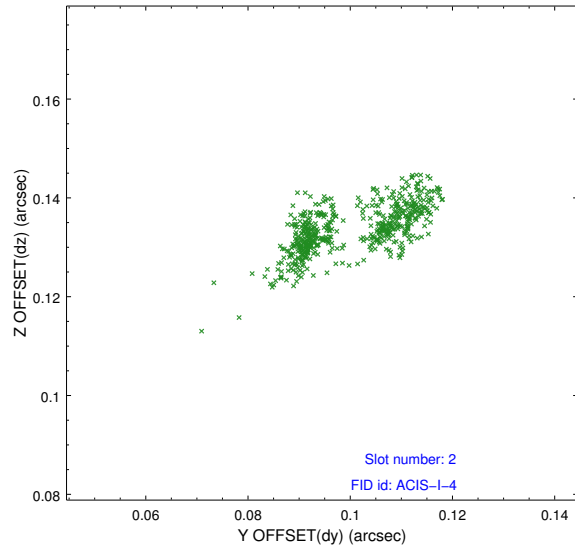
### 2.5.1 Slot 0



## 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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments

Joint Proposal: NOAO