

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13536 - L2 Version 2  
Chandra X-Ray Center

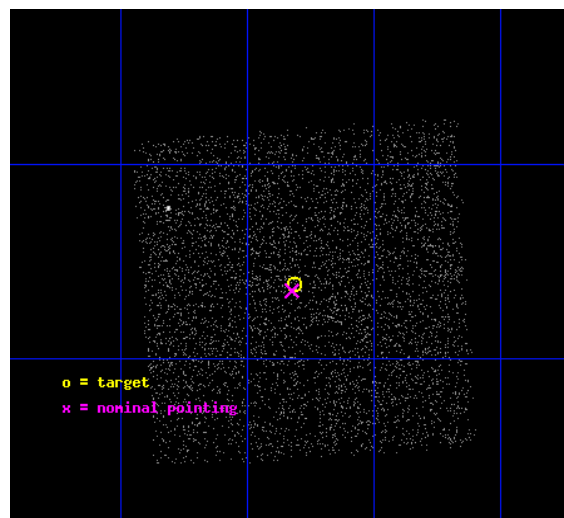
L2 Processing Date : Mar 2 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

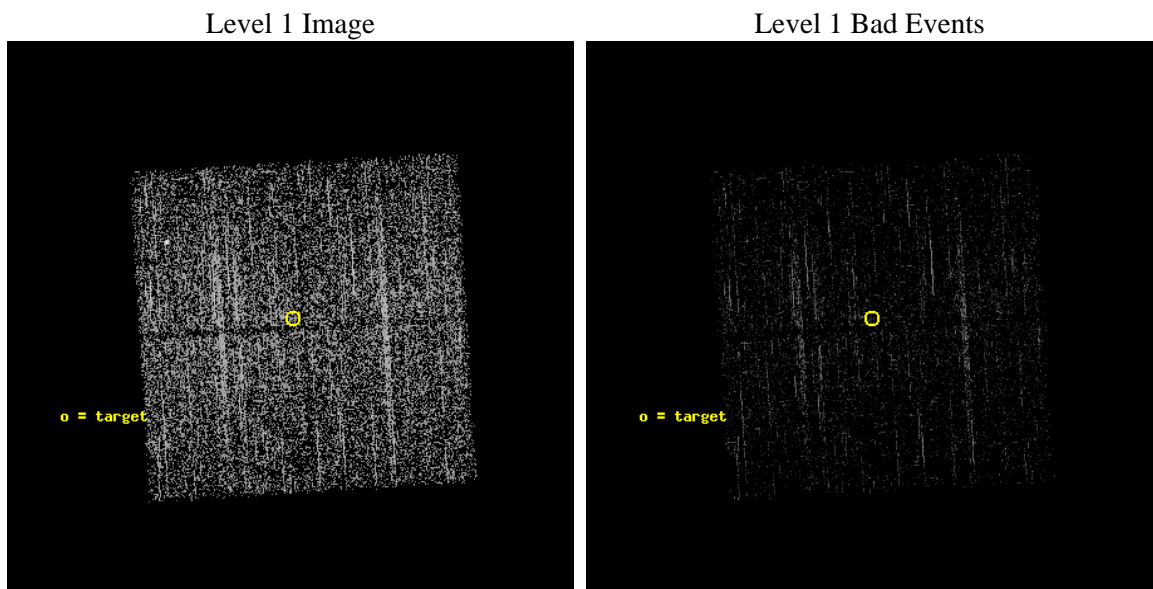
seq_num	401312	Sequence number
obs_id	13536	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.32891	Observer's specified target RA [deg]
dec_targ	-27.936663	Observer's specified target Dec [deg]
ra_nom	269.3312206787	Nominal RA [deg]
dec_nom	-27.942005494181	Nominal Dec [deg]
roll_nom	266.44860481725	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1974.7000151873	Sum of GTIs [s]
livetime	1948.8991057358	Livetime [s]
ontime0	1974.7000151873	Sum of GTIs [s]
ontime1	1974.7000151873	Sum of GTIs [s]
ontime2	1974.7000151873	Sum of GTIs [s]
ontime3	1974.7000151873	Sum of GTIs [s]
l2events	5947	Number of level 2 events



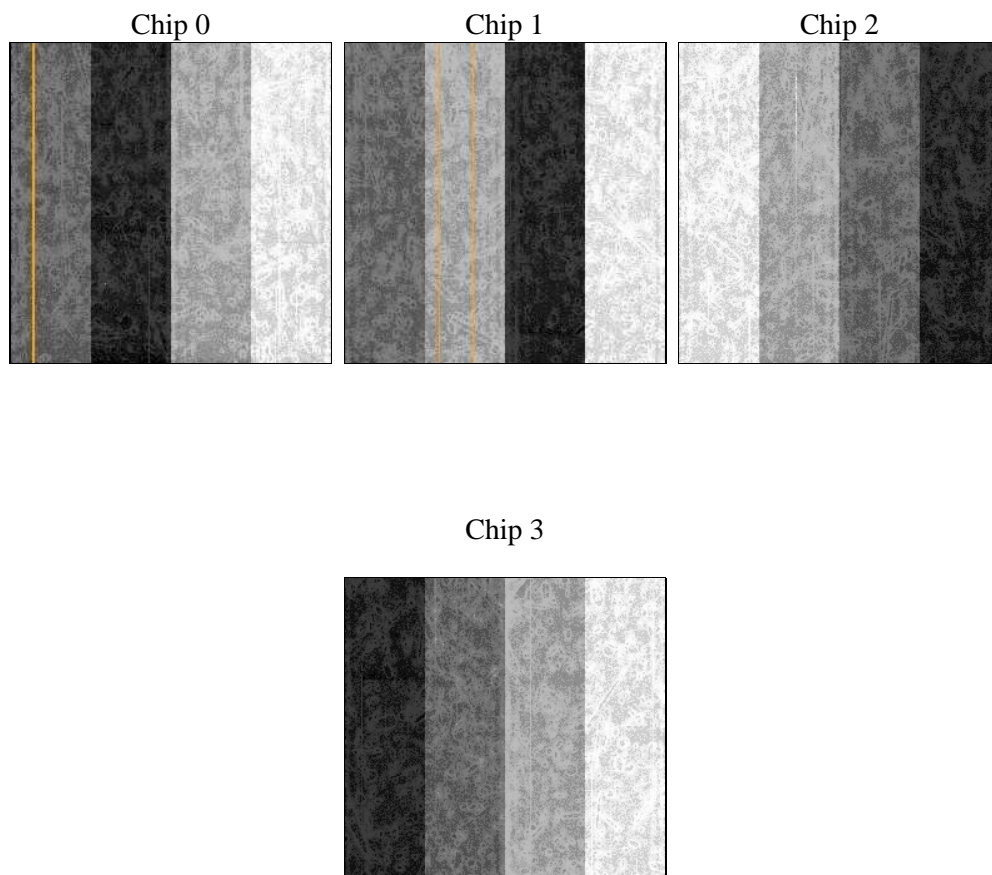
## 2 OBI

### 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	1974.7000151873	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1974.7000151873	Sum of GTIs [s]
date	2012-03-02T11:57:58	Date and time of file creation	ontime1	1974.7000151873	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1974.7000151873	Sum of GTIs [s]
			ontime3	1974.7000151873	Sum of GTIs [s]
			l1events	46778	Number of level 1 events

### 2.1.4 Events

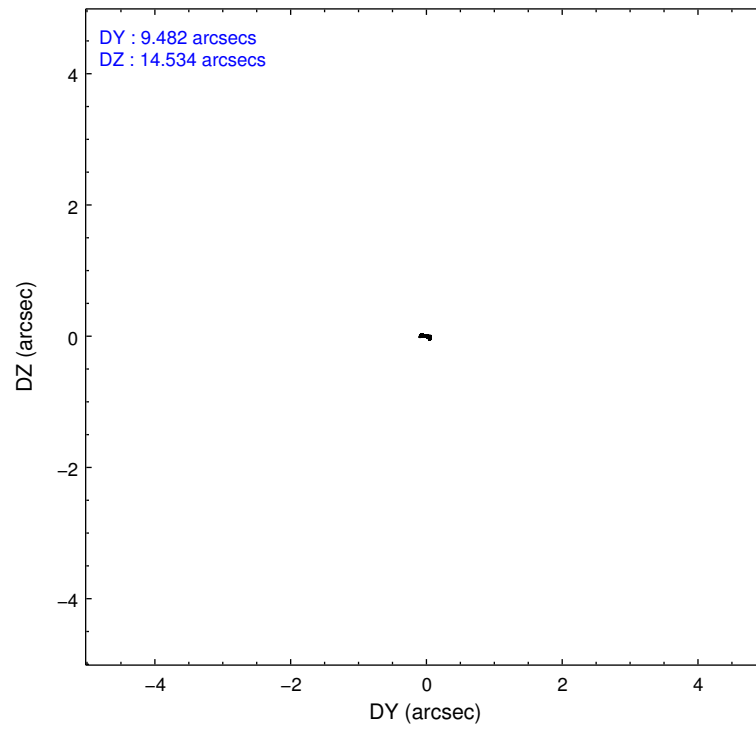
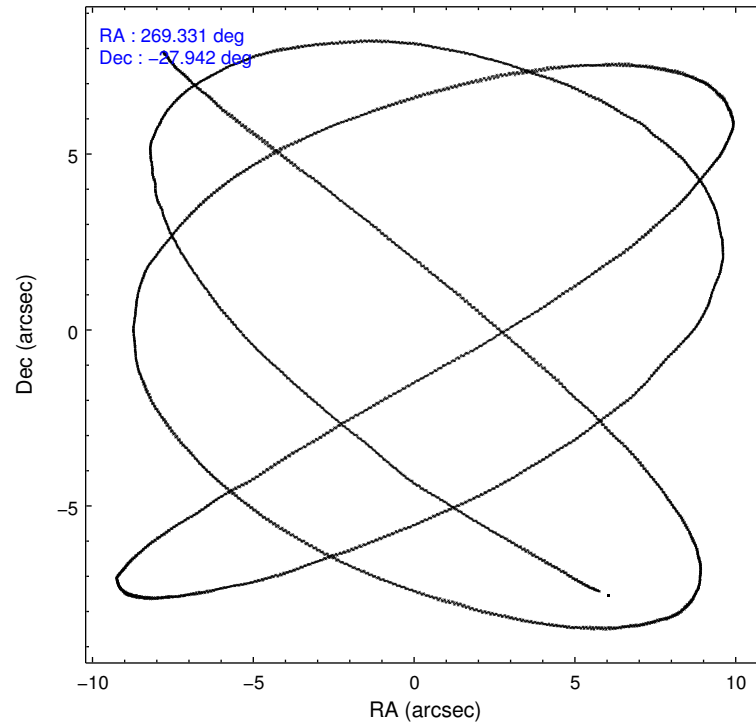
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10746	11471	11828	12733
rejected events	8987	9706	10141	10873
rejected %	83%	84%	85%	85%

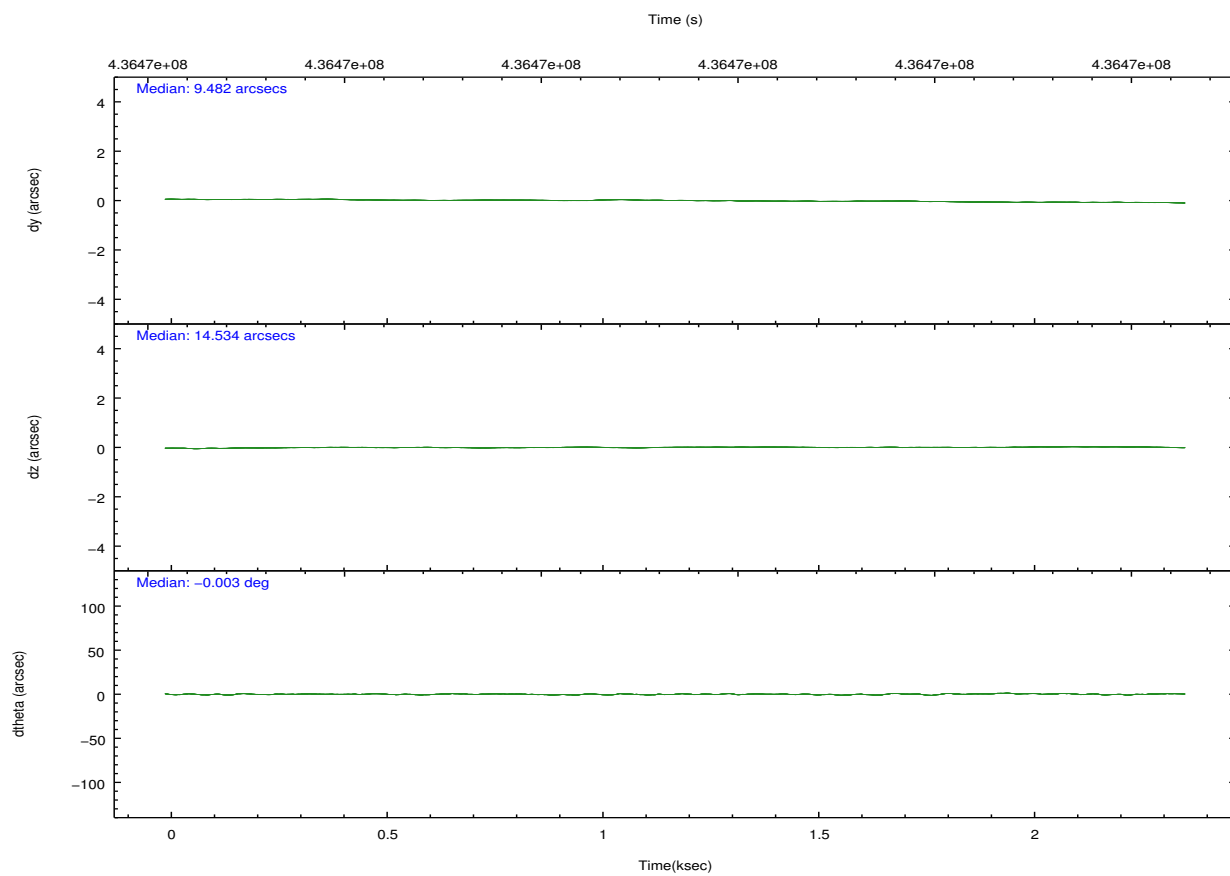
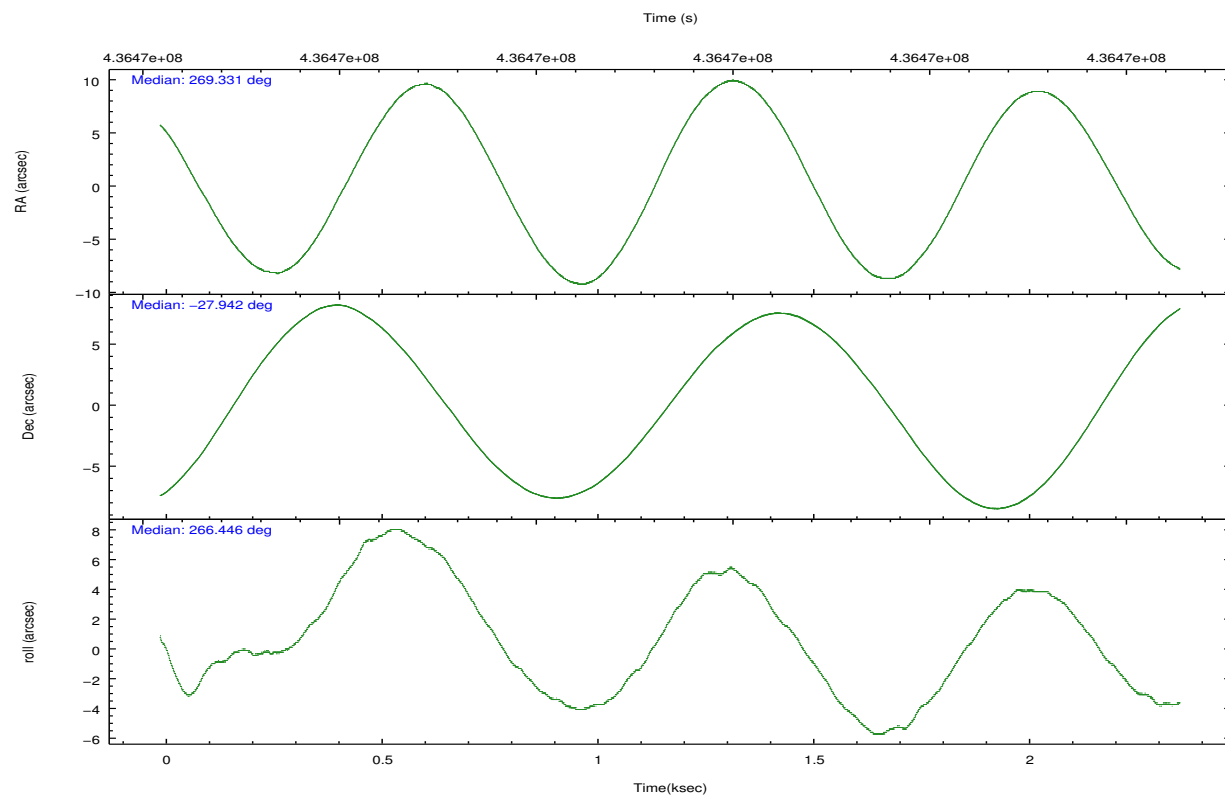
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	737	760	685	870
	6%	6%	5%	6%
grade 1 events	5	5	9	9
	0%	0%	0%	0%
grade 2 events	415	397	394	354
	3%	3%	3%	2%
grade 3 events	164	142	172	167
	1%	1%	1%	1%
grade 4 events	129	156	152	161
	1%	1%	1%	1%
grade 5 events	499	542	503	572
	4%	4%	4%	4%
grade 6 events	315	314	288	312
	2%	2%	2%	2%
grade 7 events	8482	9155	9625	10288
	78%	79%	81%	80%

## 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	269.317298	269.3312206786994	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.917454	-27.9420054941812	Alternating exposures requested	N	N
[deg] Pointing Roll	266.233433	266.4486048172471	[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)	436468841.184000	436468324.71663			
Observation start date	2011-10-31T17:19:35	2011-10-31T17:12:04			
[s] Observation end time (MET)	436471021.184000	436471201.89179			
Observation end date	2011-10-31T17:55:55	2011-10-31T18:00:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect





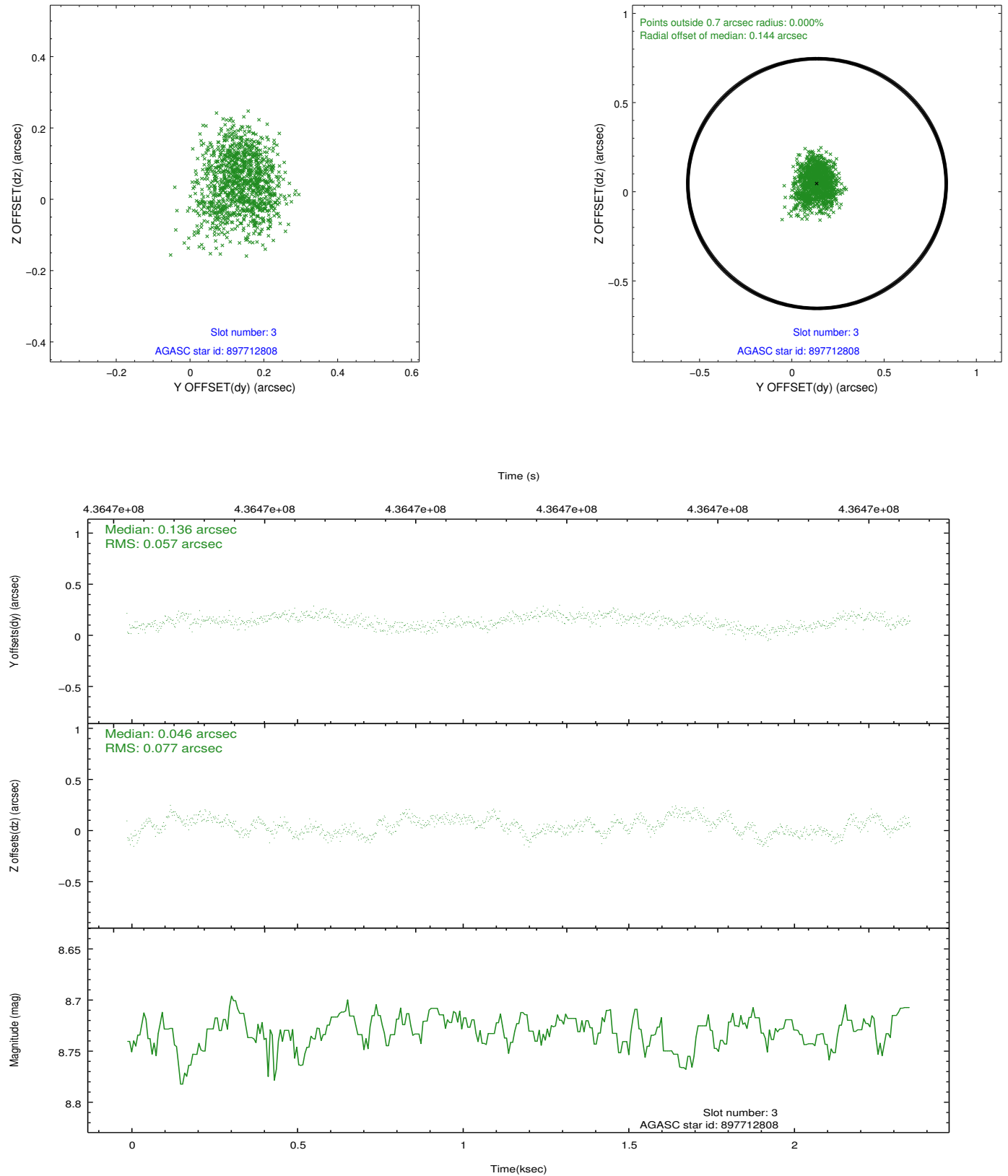
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	577	0.067	-0.028	0.007	0.013	0.000000	0.000000	930.21	-838.14
1	FID	ACIS-I-5	7.02	577	-0.237	0.064	0.007	0.012	0.000000	0.000000	-1816.70	1058.03
2	FID	ACIS-I-6	7.02	577	0.079	0.035	0.008	0.013	0.000000	0.000000	392.76	1705.64
3	GUIDE	897712808	8.73	1153	0.136	0.046	0.103	0.160	268.777505	-27.542029	-1230.71	-1807.87
4	GUIDE	897722208	8.38	1152	-0.221	-0.096	0.076	0.122	268.617190	-27.294090	-2086.61	-2383.67
5	GUIDE	898236888	8.69	1154	0.067	0.066	0.085	0.157	269.539947	-28.141730	758.52	756.53
6	GUIDE	898258992	8.01	1154	0.091	0.018	0.056	0.087	269.435214	-28.570389	2322.34	527.38
7	GUIDE	897720616	8.62	1152	-0.068	-0.027	0.076	0.123	269.886360	-27.876425	-259.86	1798.12

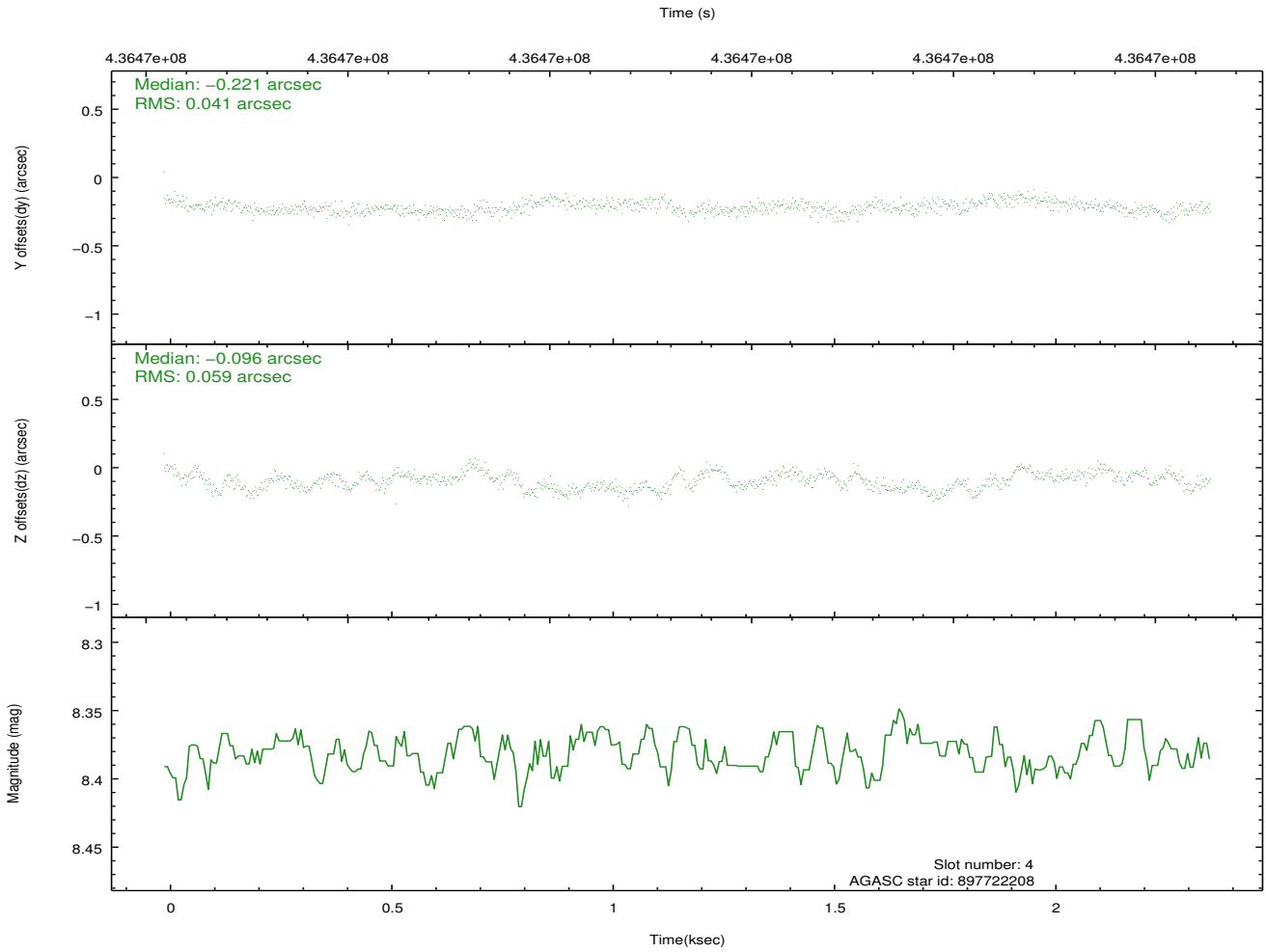
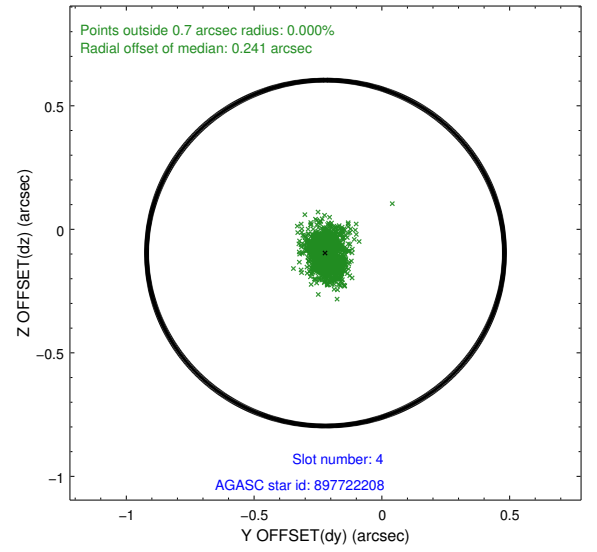
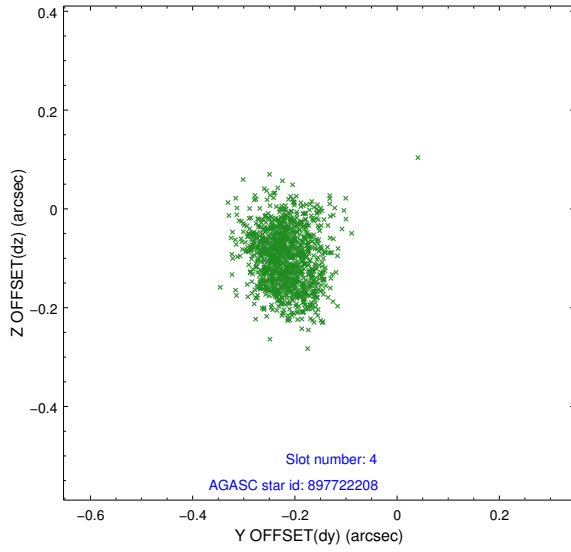


## 2.4 Star Slots

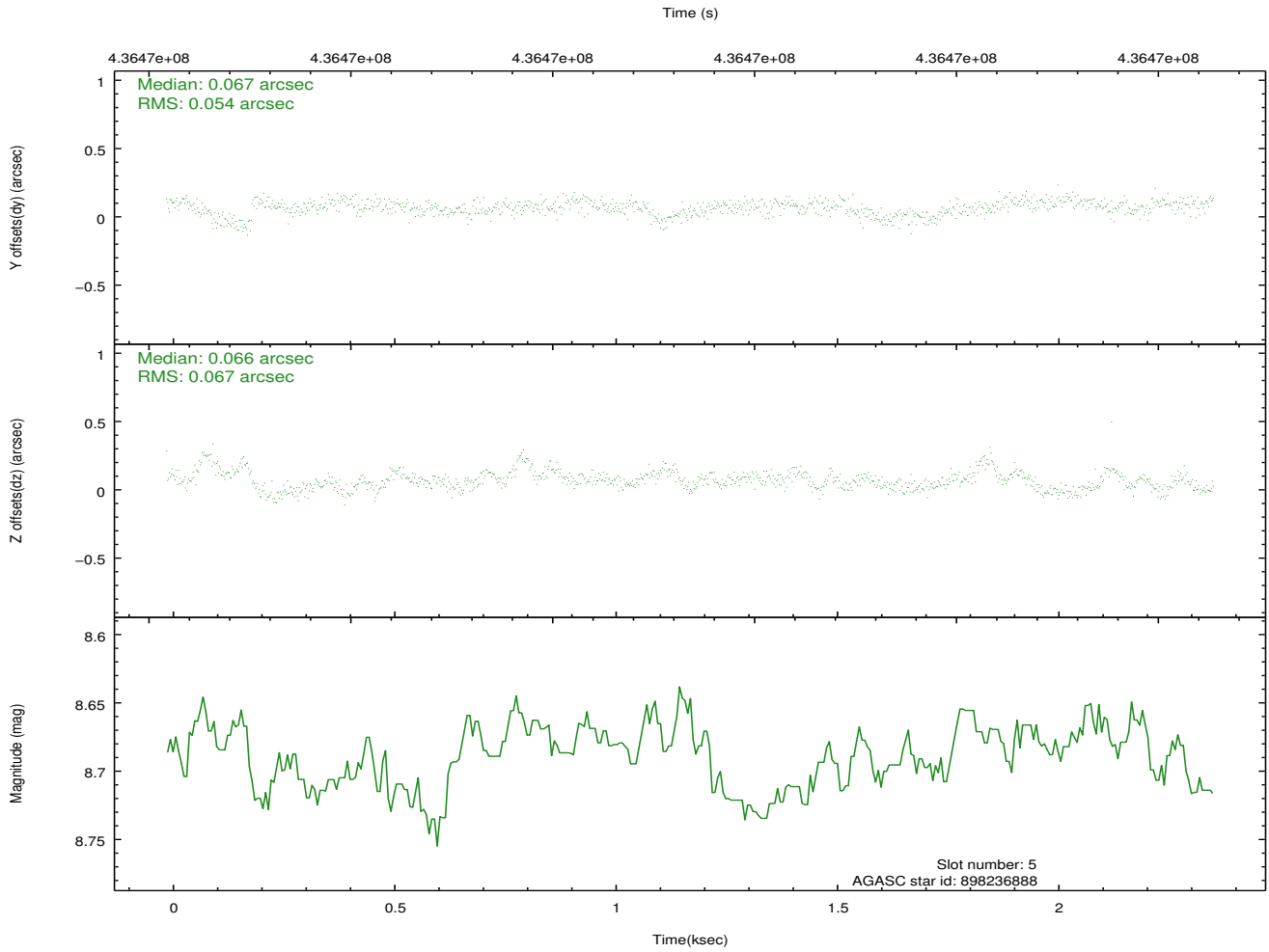
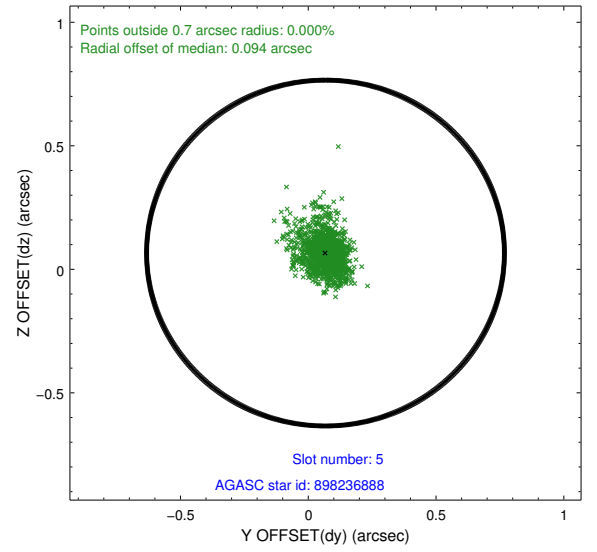
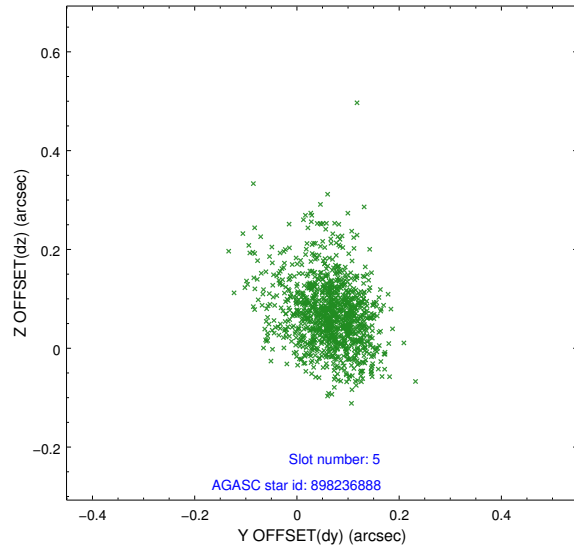
### 2.4.1 Slot 3



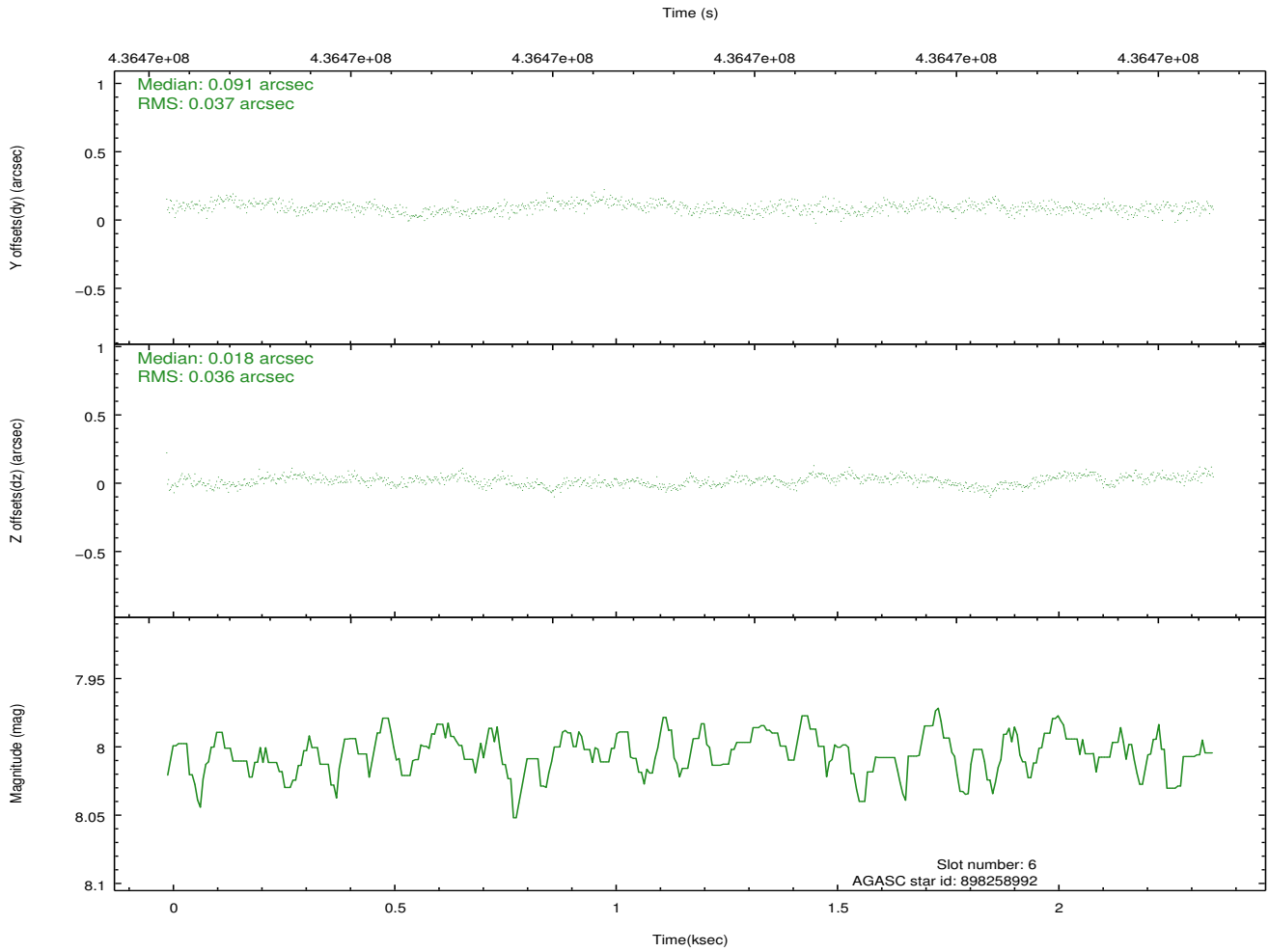
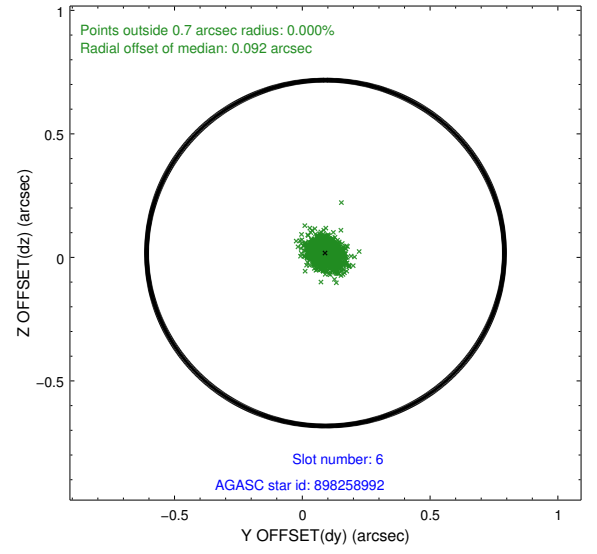
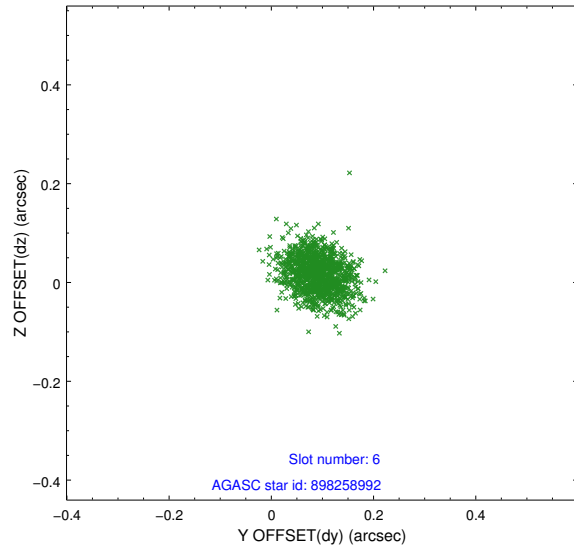
## 2.4.2 Slot 4



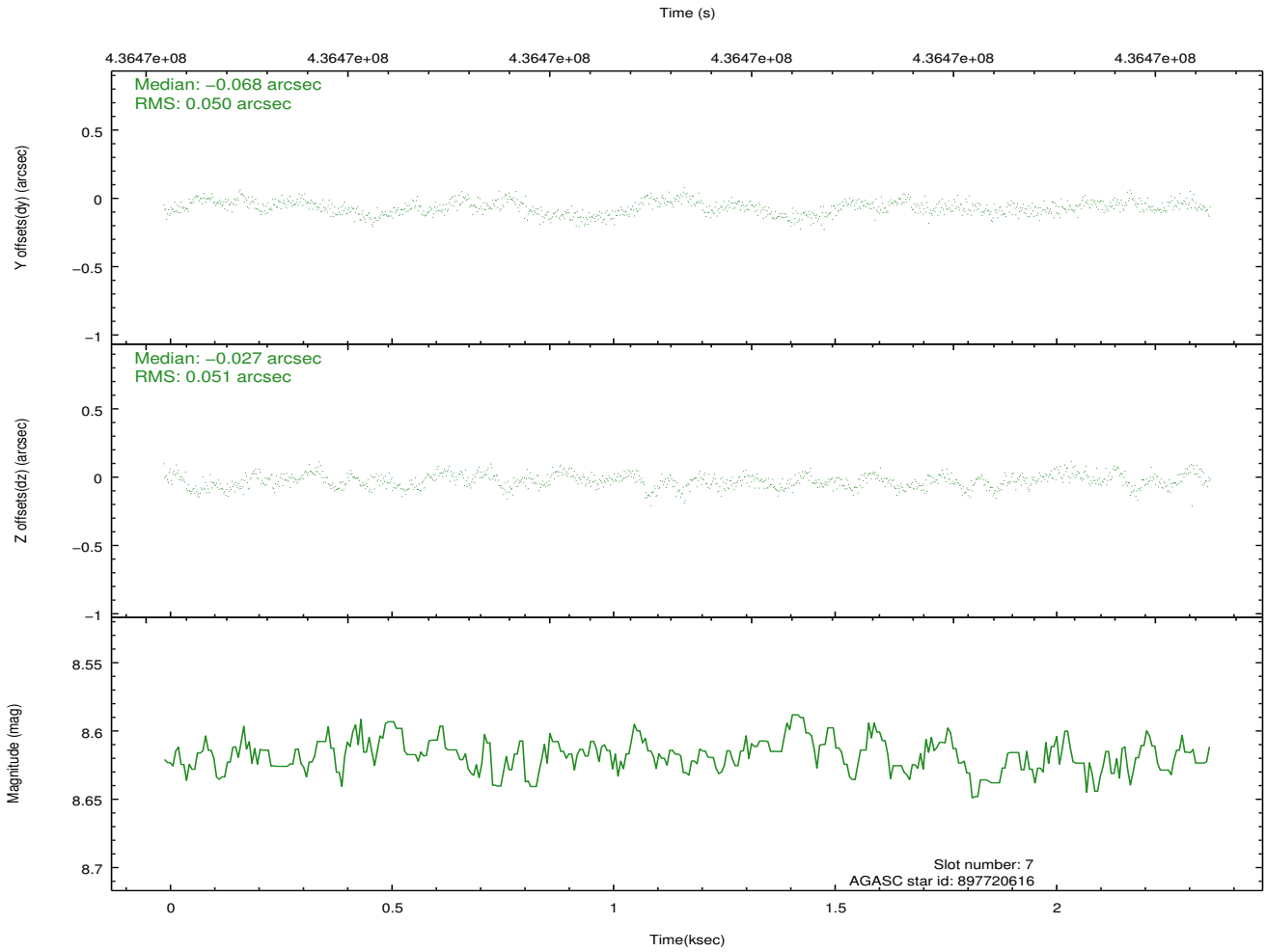
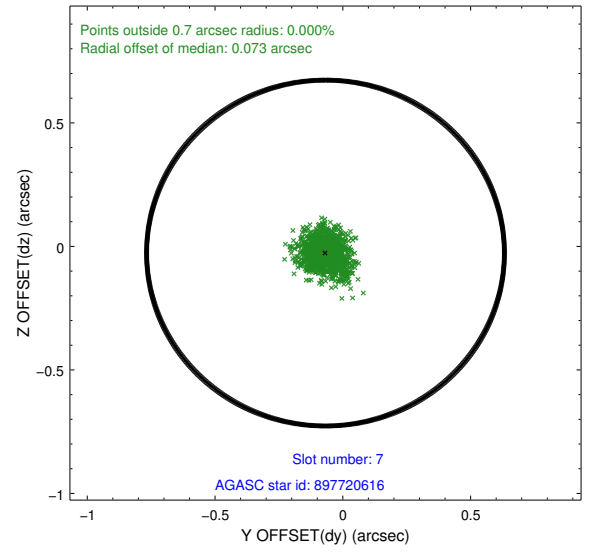
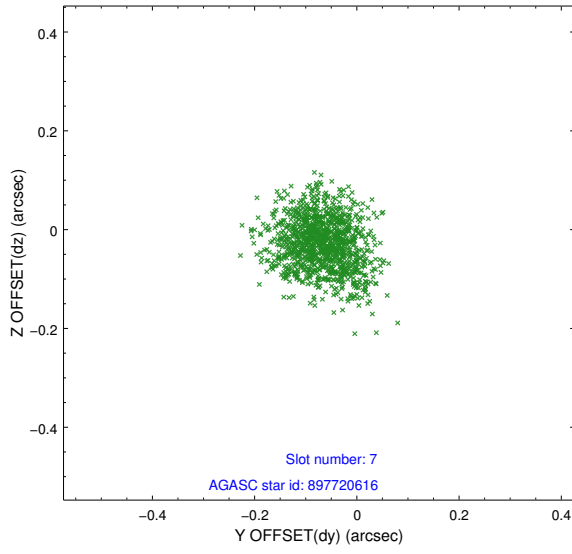
### 2.4.3 Slot 5



## 2.4.4 Slot 6

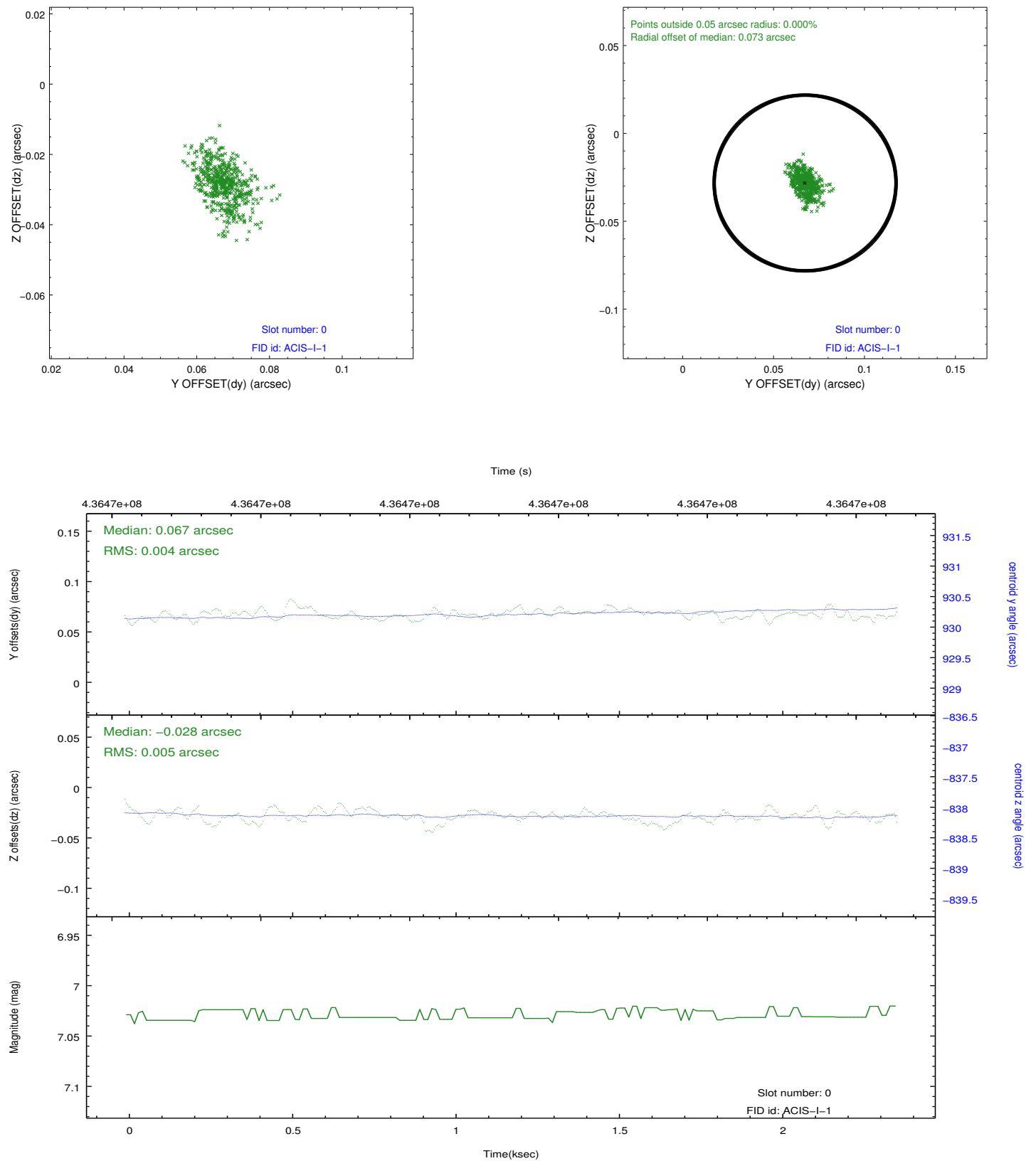


## 2.4.5 Slot 7

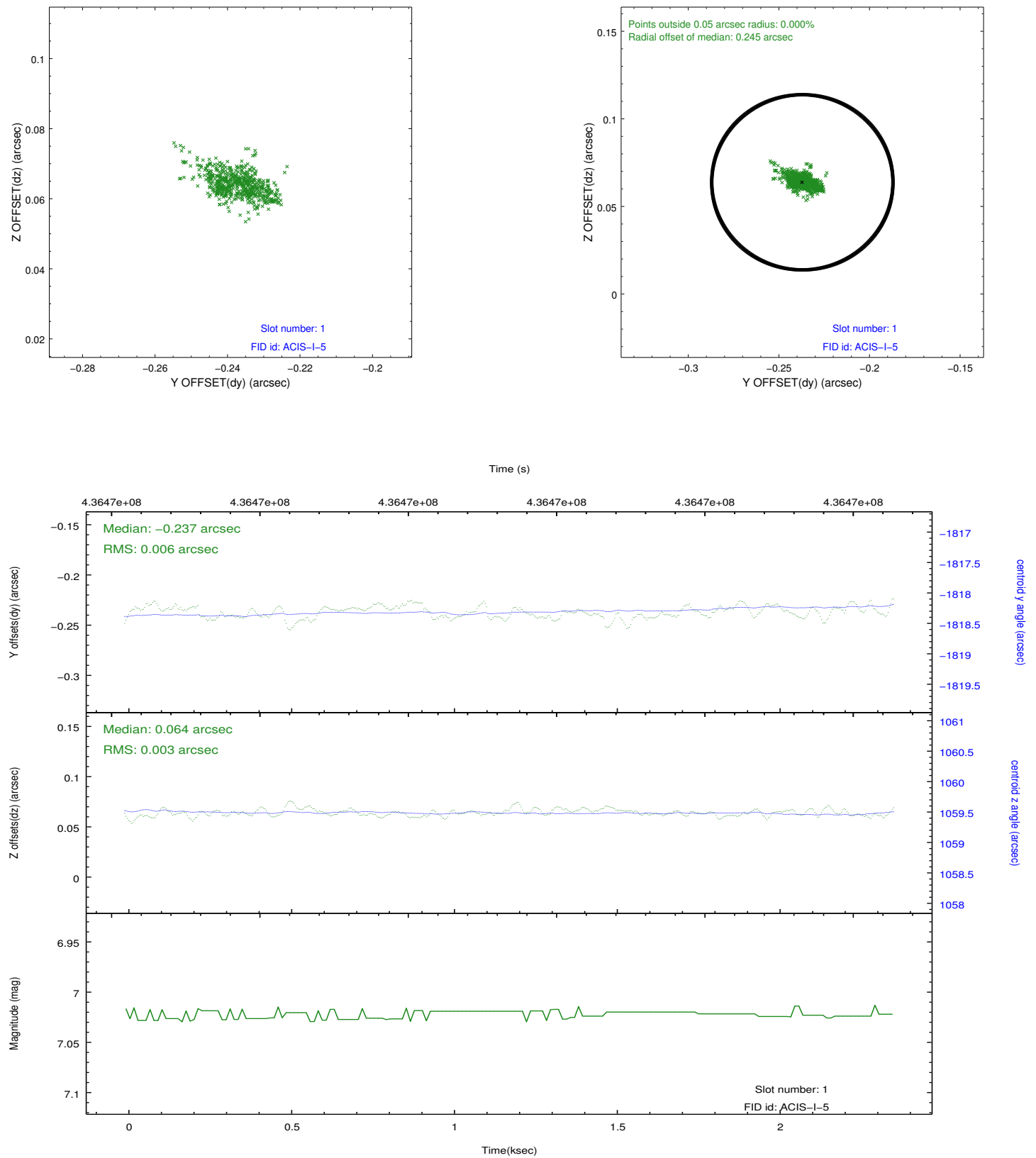


## 2.5 FID Slots

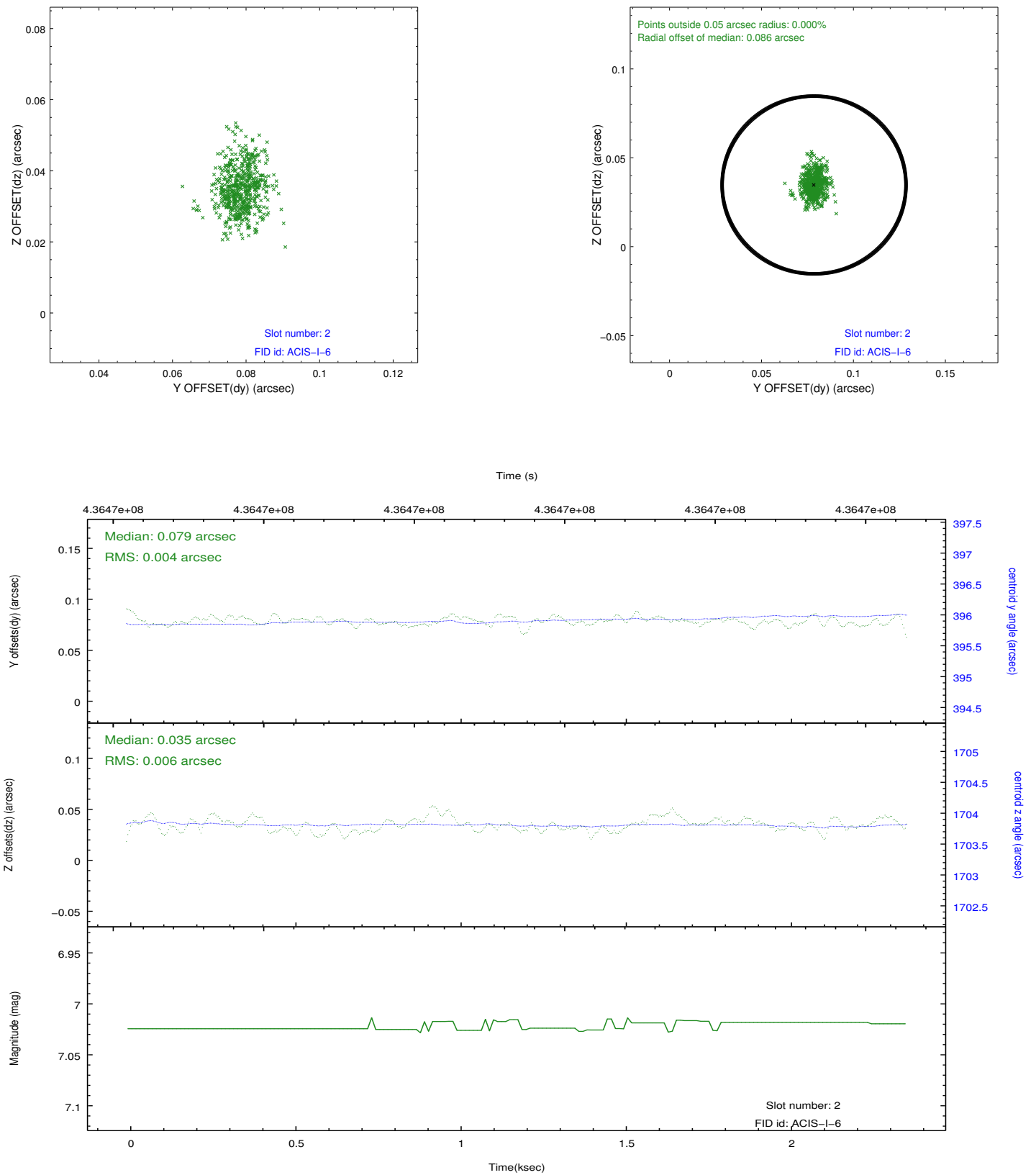
### 2.5.1 Slot 0



## 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)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9747000151873

### A.2 Comments

Joint Proposal: NOAO