

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7388 - L2 Version 2  
Chandra X-Ray Center

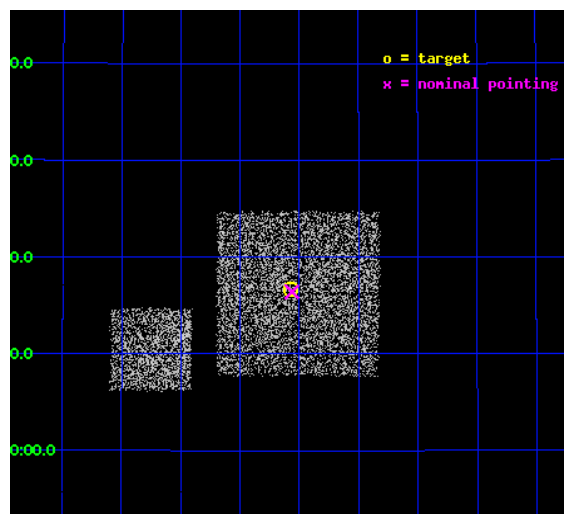
L2 Processing Date : Apr 7 2012

## 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

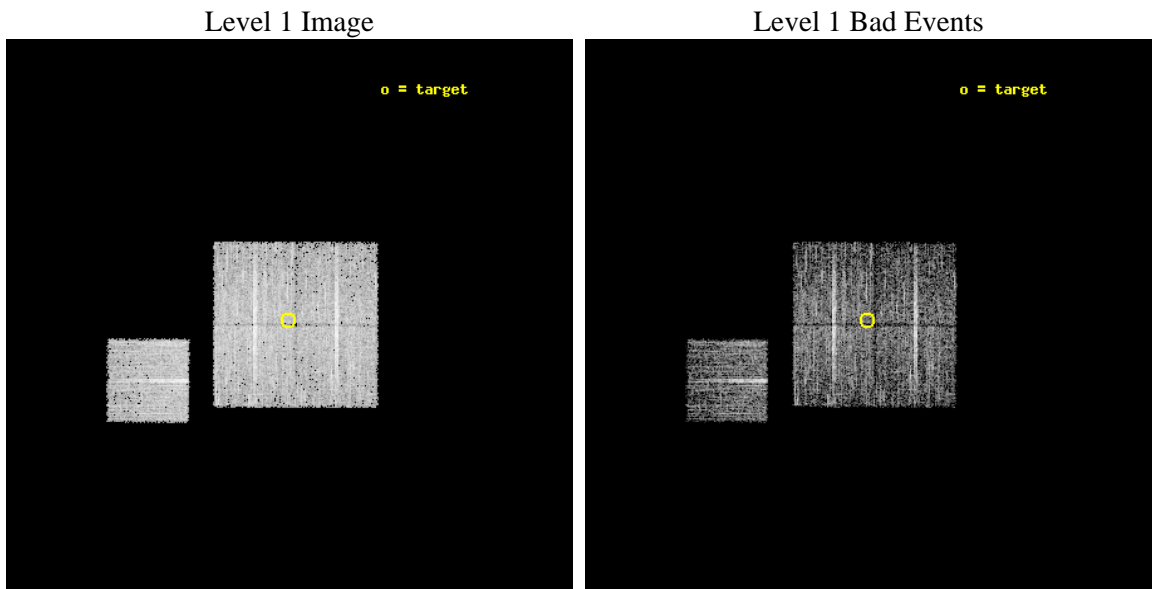
seq_num	900485	Sequence number
obs_id	7388	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr Stephen Murray	Principal investigator
object	Bootes2 31	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.51795	Observer's specified target RA [deg]
dec_targ	34.277978	Observer's specified target Dec [deg]
ra_nom	216.5158603758	Nominal RA [deg]
dec_nom	34.27366653354	Nominal Dec [deg]
roll_nom	270.20985105313	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4476.0301222801	Sum of GTIs [s]
livetime	4417.5474935271	Livetime [s]
ontime0	4475.9070321918	Sum of GTIs [s]
ontime1	4475.9480721951	Sum of GTIs [s]
ontime2	4472.8481717706	Sum of GTIs [s]
ontime3	4476.0301222801	Sum of GTIs [s]
ontime6	4472.7250319123	Sum of GTIs [s]
l2events	12102	Number of level 2 events



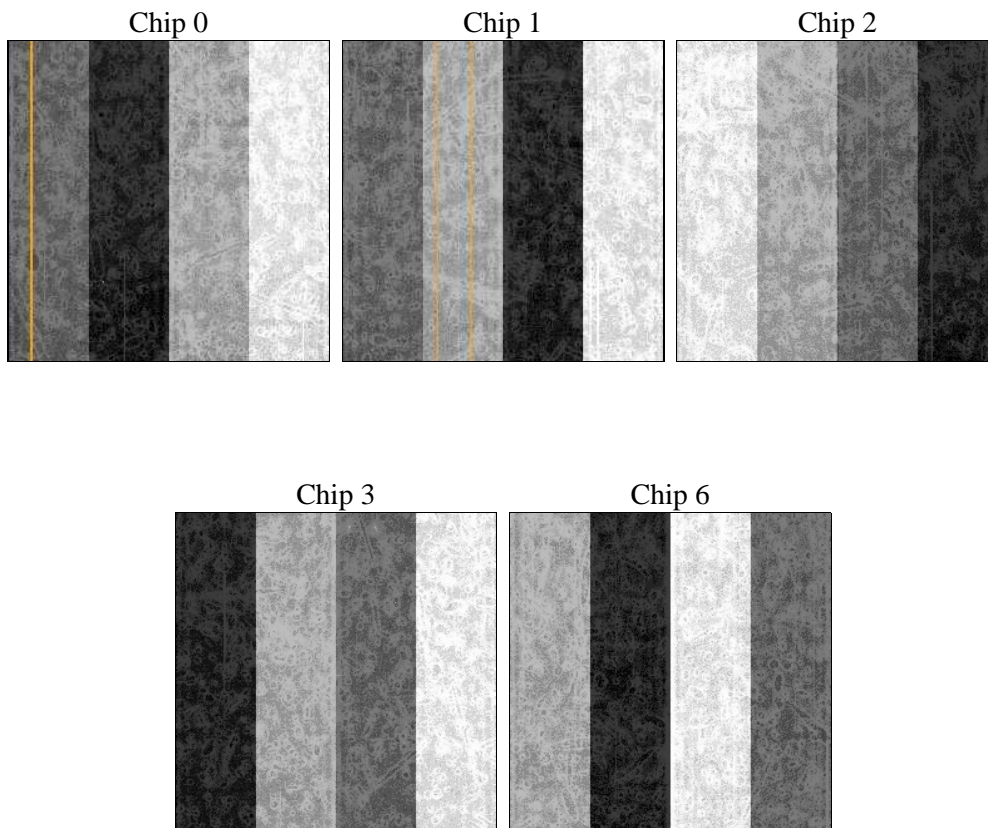
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4476.0301222801	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	4475.9070321918	Sum of GTIs [s]
date	2012-04-07T12:57:46	Date and time of file creation	ontime1	4475.9480721951	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4472.8481717706	Sum of GTIs [s]
			ontime3	4476.0301222801	Sum of GTIs [s]
			ontime6	4472.7250319123	Sum of GTIs [s]
			l1events	149387	Number of level 1 events

### 2.1.4 Events

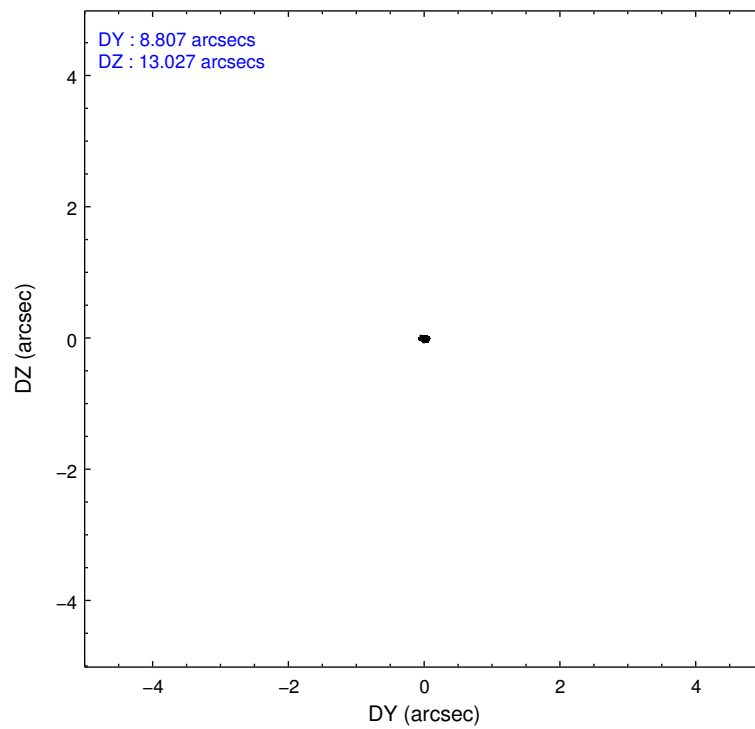
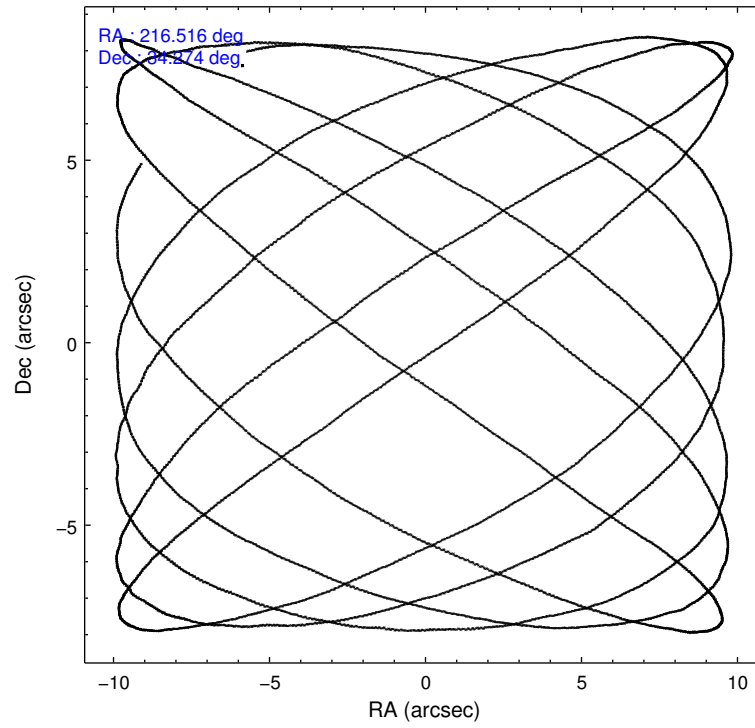
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	28824	26395	32719	30462	30987
rejected events	25945	23264	29814	27774	27777
rejected %	90%	88%	91%	91%	89%

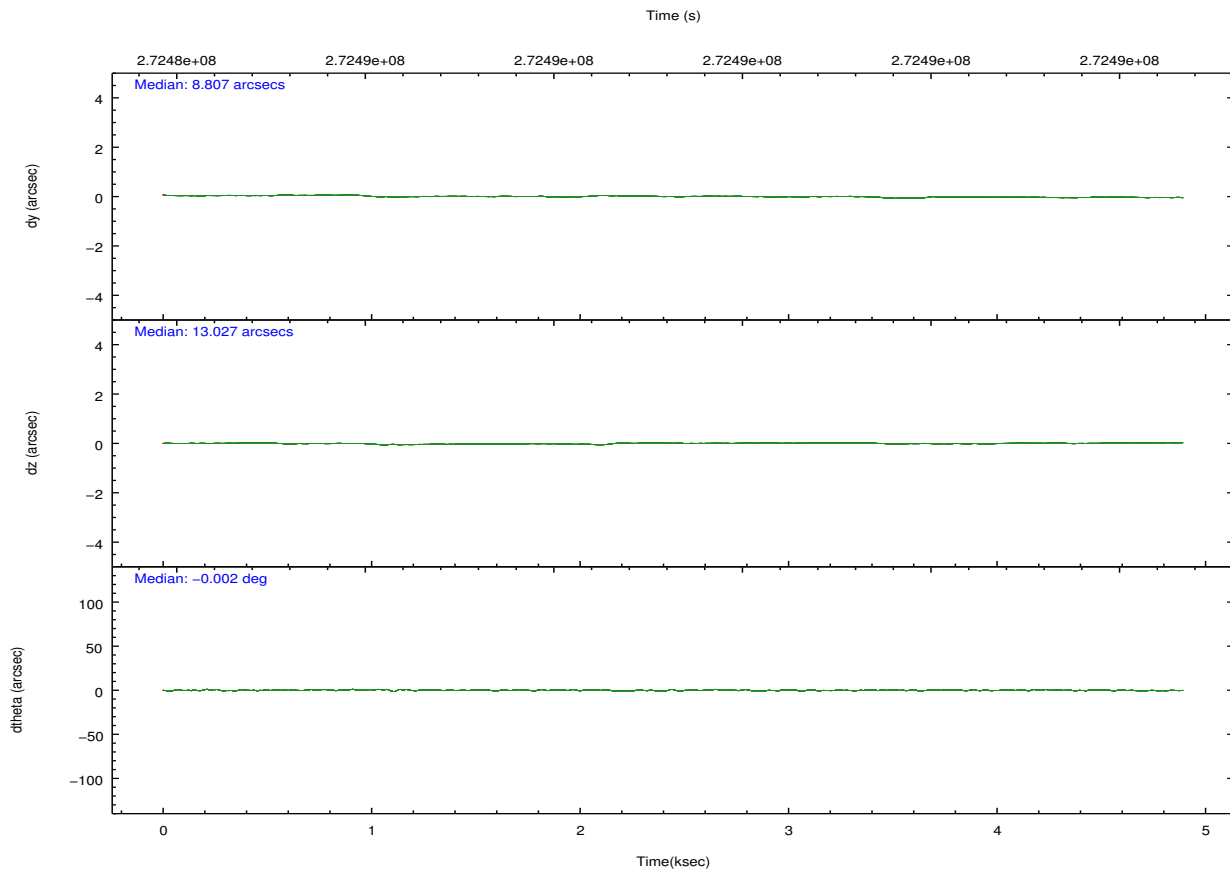
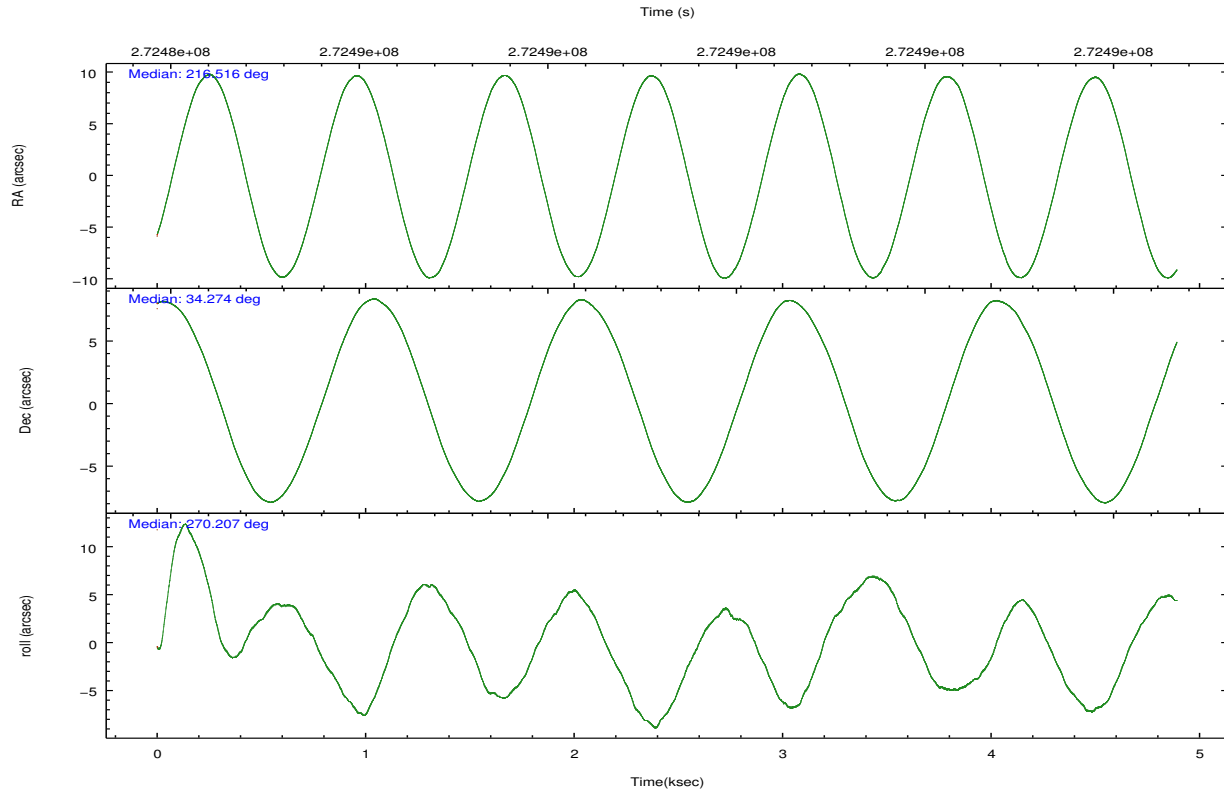
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	984	1089	1106	937	1278
	3%	4%	3%	3%	4%
grade 1 events	14	15	19	13	14
	0%	0%	0%	0%	0%
grade 2 events	736	713	693	581	669
	2%	2%	2%	1%	2%
grade 3 events	335	348	306	329	344
	1%	1%	0%	1%	1%
grade 4 events	336	369	329	298	344
	1%	1%	1%	0%	1%
grade 5 events	843	955	774	1092	931
	2%	3%	2%	3%	3%
grade 6 events	490	619	474	547	582
	1%	2%	1%	1%	1%
grade 7 events	25086	22287	29018	26665	26825
	87%	84%	88%	87%	86%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	216.499040	216.5158603758048	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.297326	34.27366653353966	Alternating exposures requested	N	N
[deg] Pointing Roll	270.010689	270.2098510531265	[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)	272485376.184000	272485000.27464			
Observation start date	2006-08-20T18:21:51	2006-08-20T18:16:40			
[s] Observation end time (MET)	272490076.184000	272490618.8124			
Observation end date	2006-08-20T19:40:11	2006-08-20T19:50:18			
Read mode	TIMED	TIMED			

## 2.3 Aspect



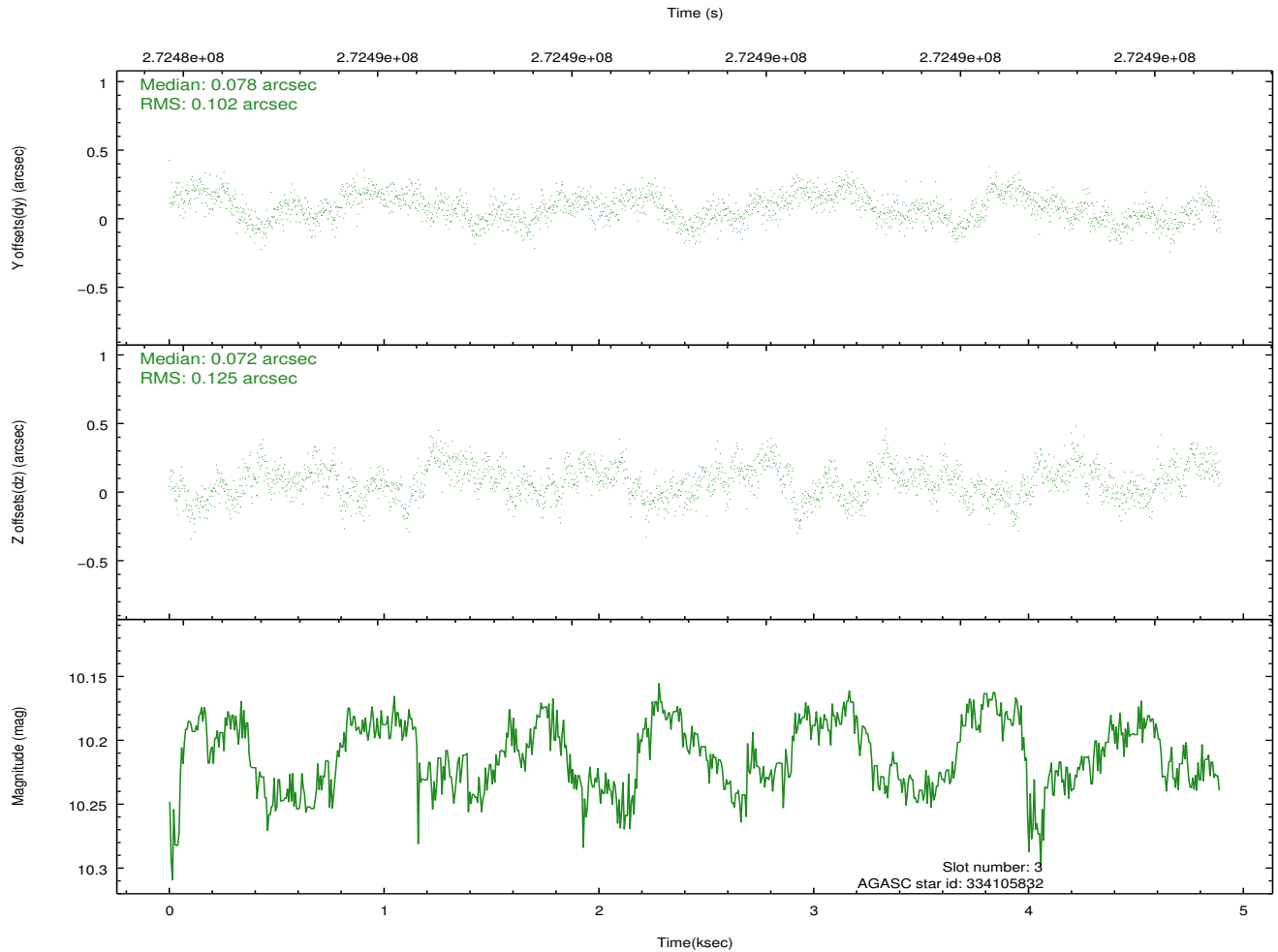
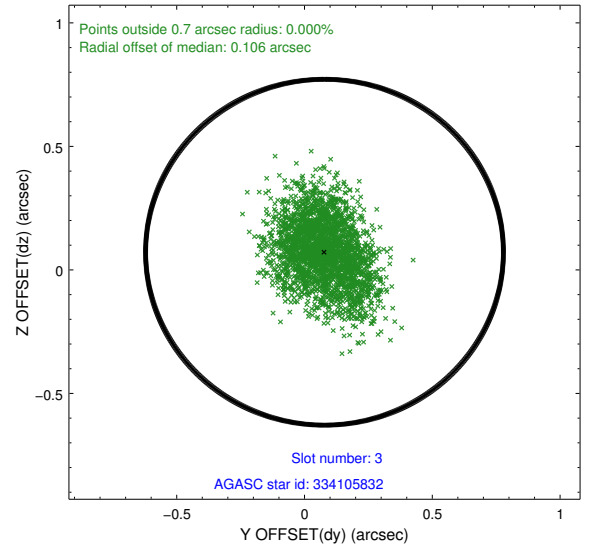
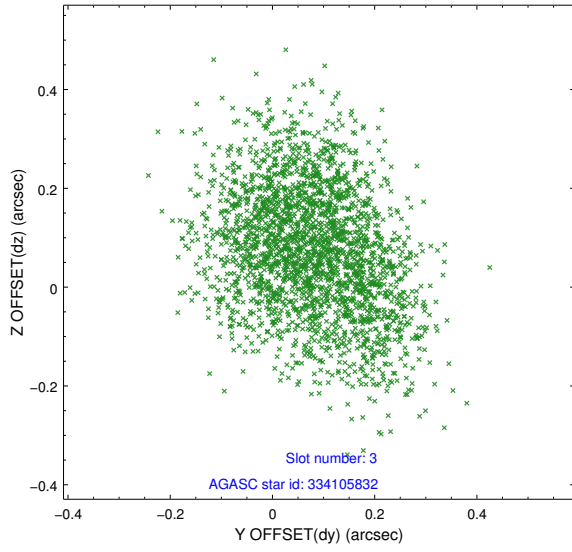


### Slot Statistics

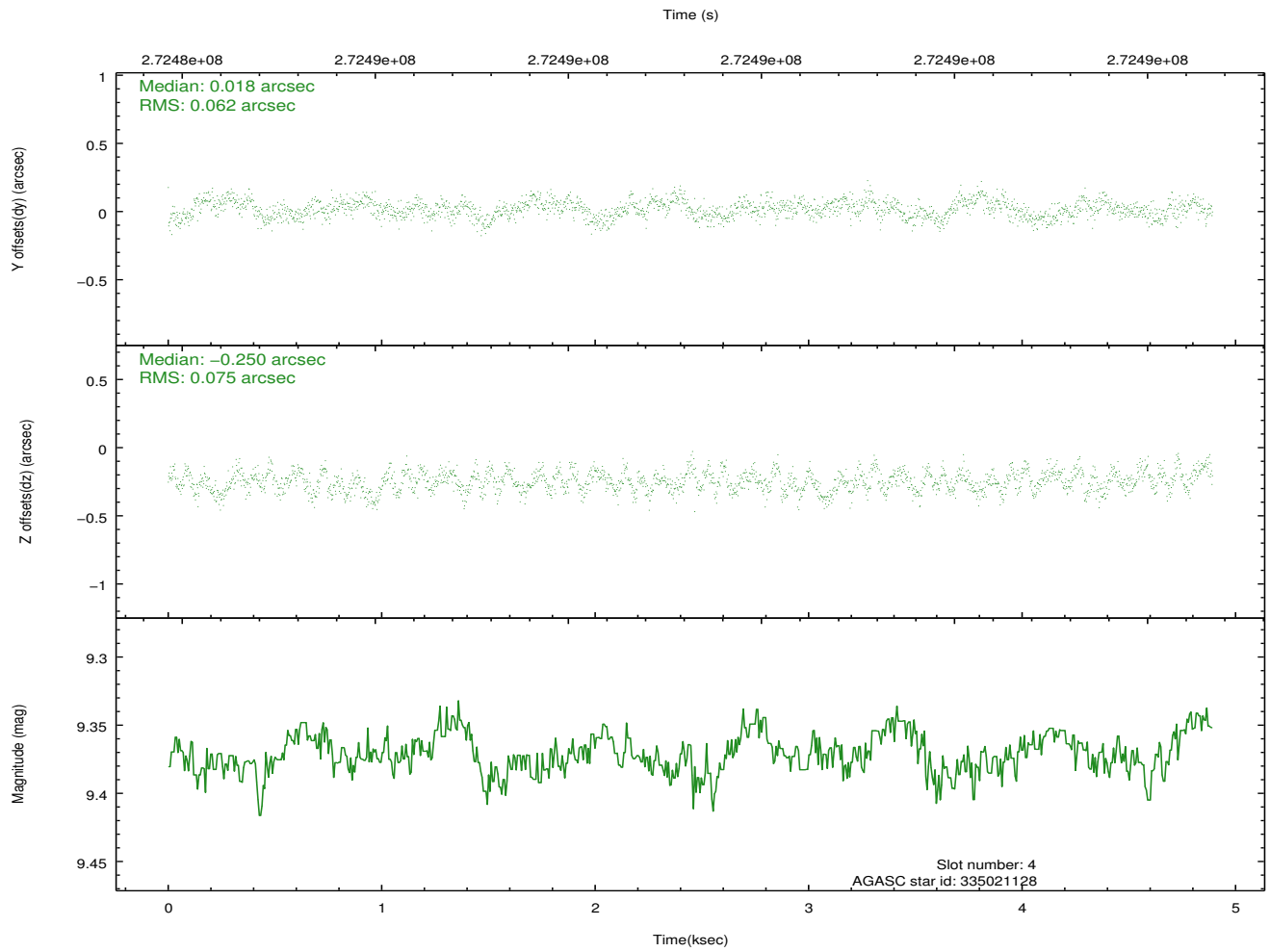
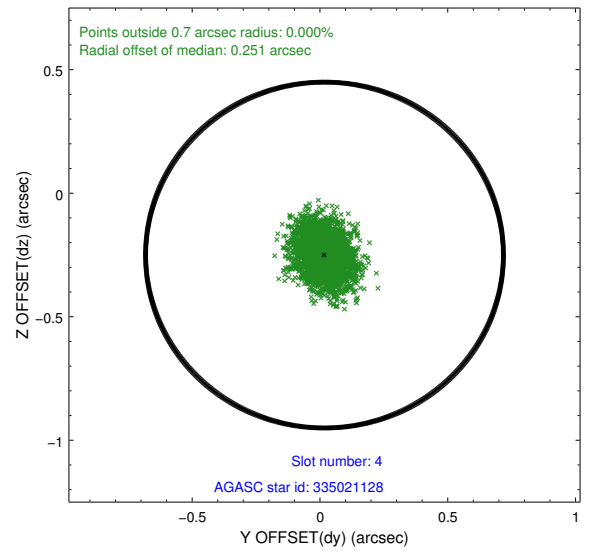
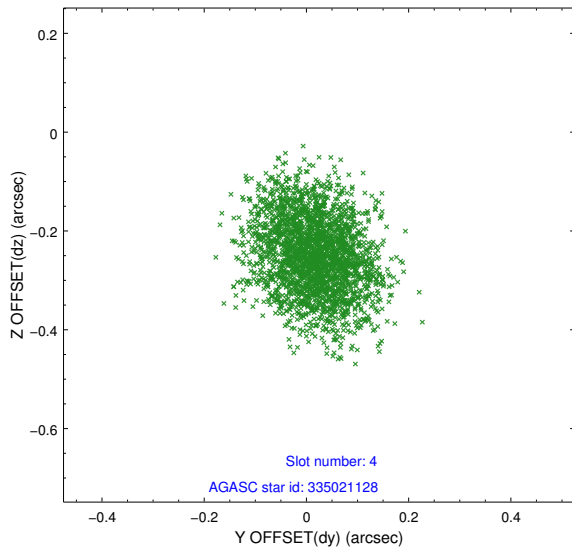
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1194	0.042	-0.013	0.006	0.011	0.000000	0.000000	930.86	-836.59
1	FID	ACIS-I-5	7.23	1194	-0.194	0.051	0.006	0.011	0.000000	0.000000	-1816.78	1060.35
2	FID	ACIS-I-6	7.24	1194	0.062	0.033	0.007	0.011	0.000000	0.000000	395.08	1706.24
3	GUIDE	334105832	10.21	2386	0.078	0.072	0.174	0.273	215.847735	34.556918	-940.79	-1930.79
4	GUIDE	335021128	9.37	2385	0.018	-0.250	0.106	0.165	216.159551	34.422539	-452.80	-1009.13
5	GUIDE	335024096	10.64	2384	0.168	0.167	0.201	0.321	216.160719	34.374830	-280.67	-1005.45
6	GUIDE	335028696	9.19	2386	-0.034	-0.200	0.089	0.143	217.260519	33.844112	1623.49	2276.05
7	GUIDE	335030384	8.83	2384	-0.241	0.211	0.074	0.119	216.806407	34.722197	-1530.19	910.91

## 2.4 Star Slots

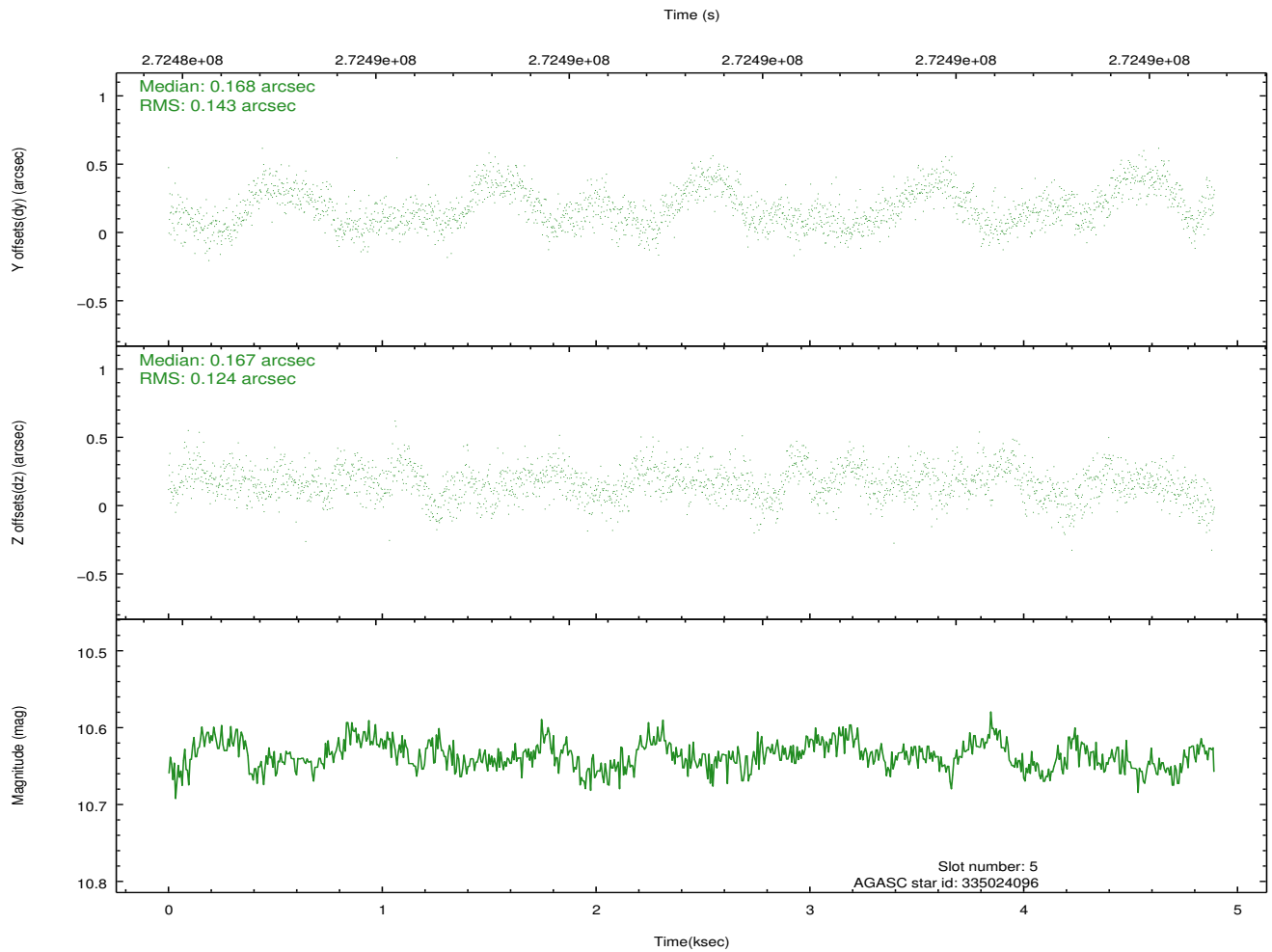
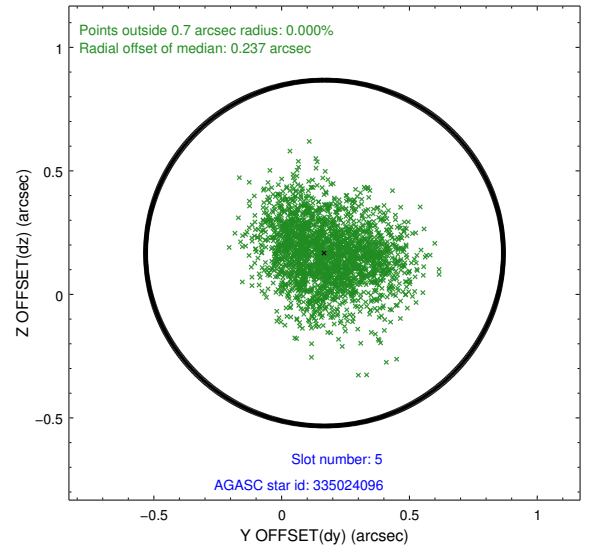
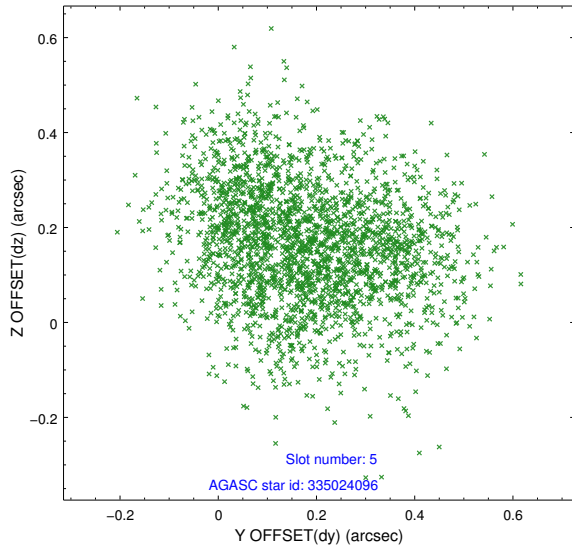
### 2.4.1 Slot 3



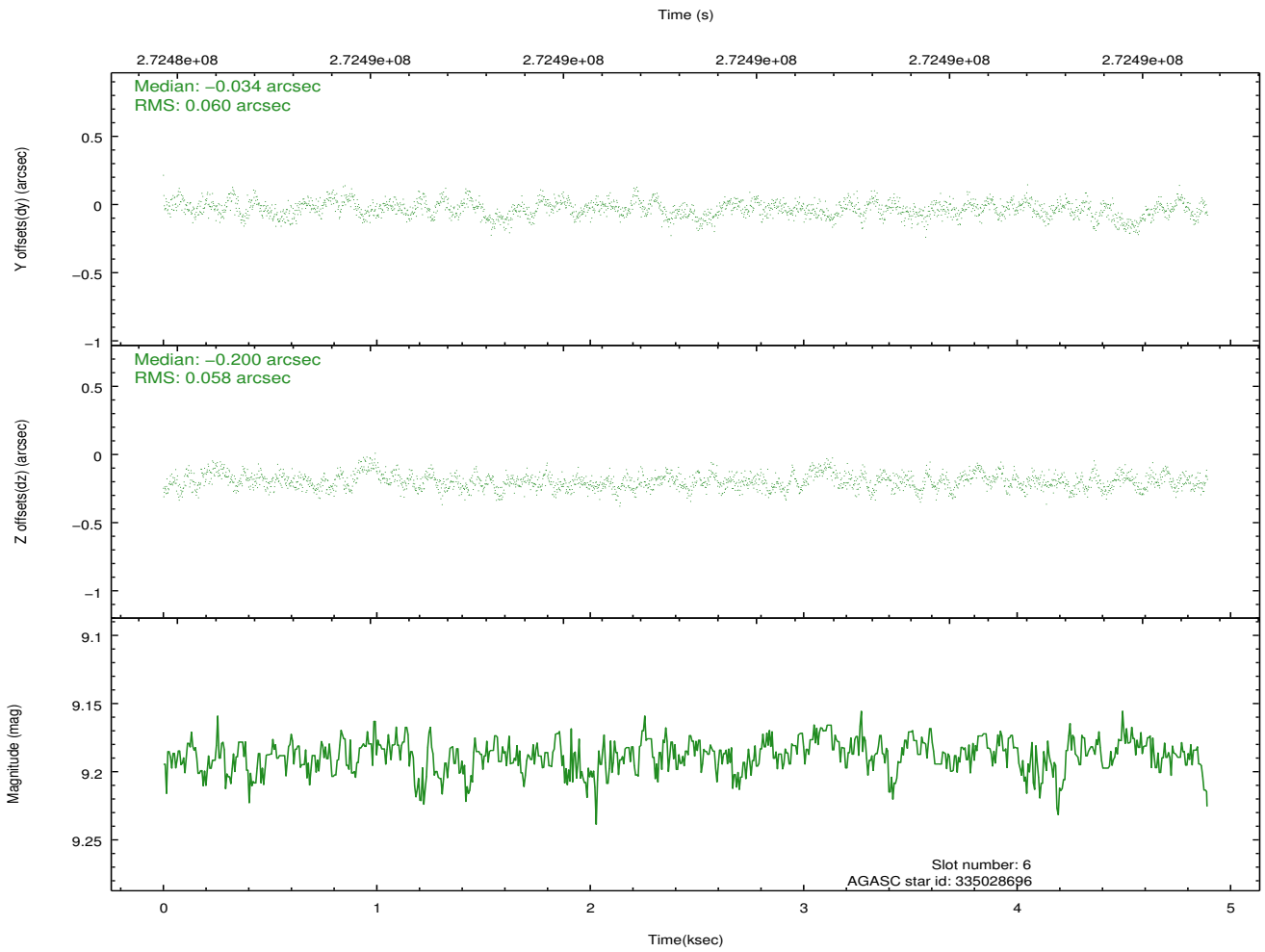
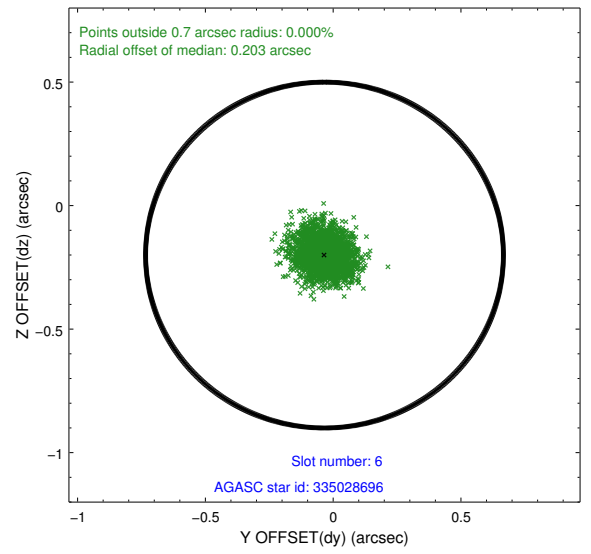
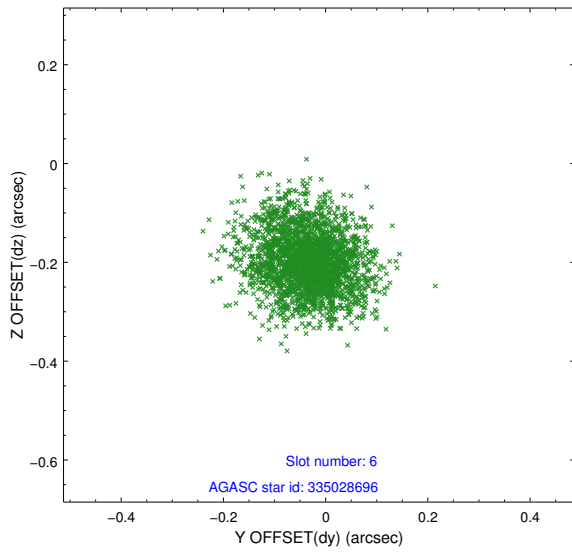
## 2.4.2 Slot 4



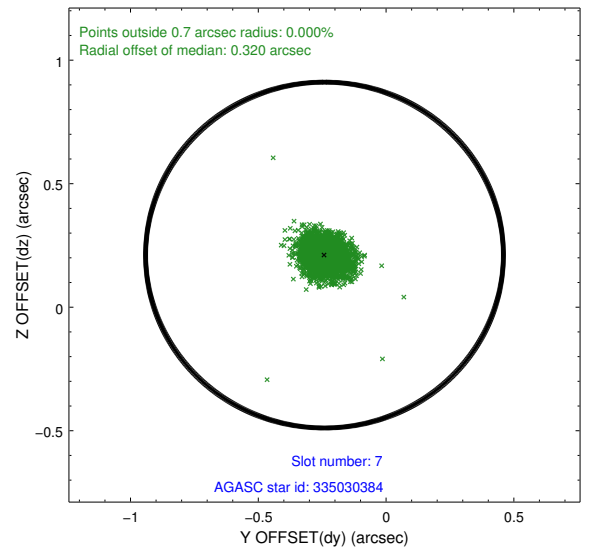
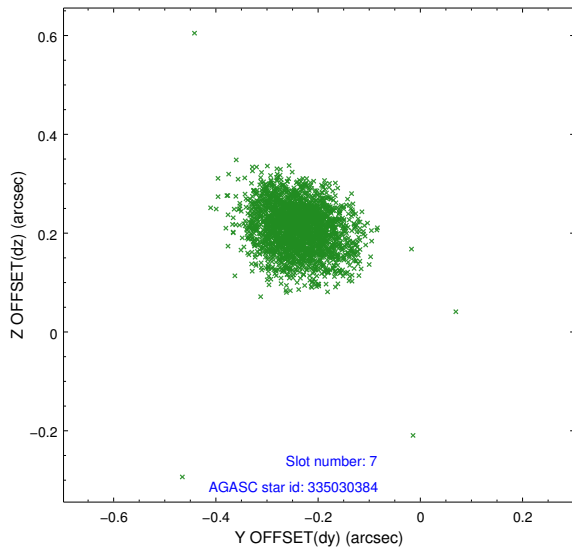
### 2.4.3 Slot 5



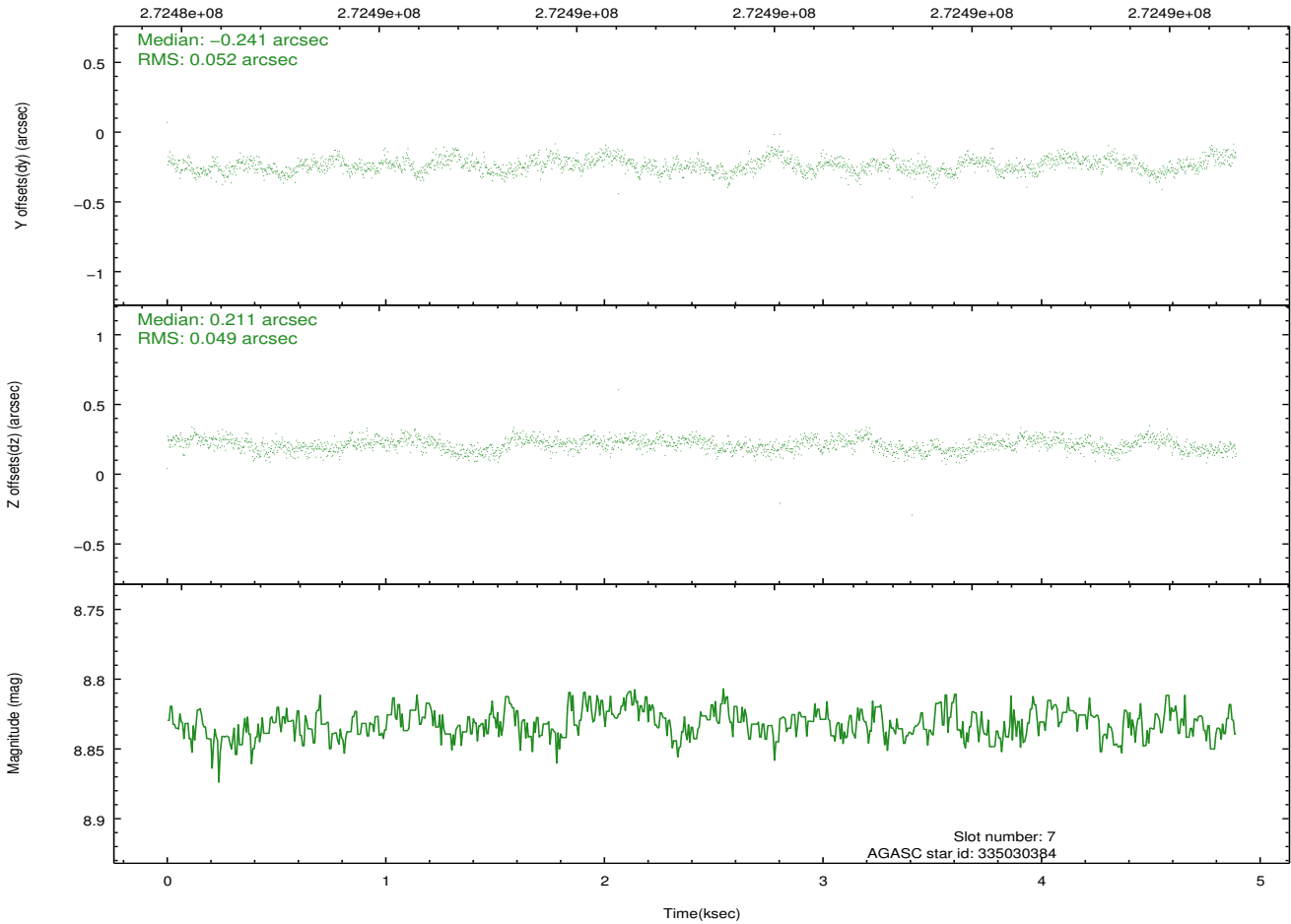
### 2.4.4 Slot 6



### 2.4.5 Slot 7

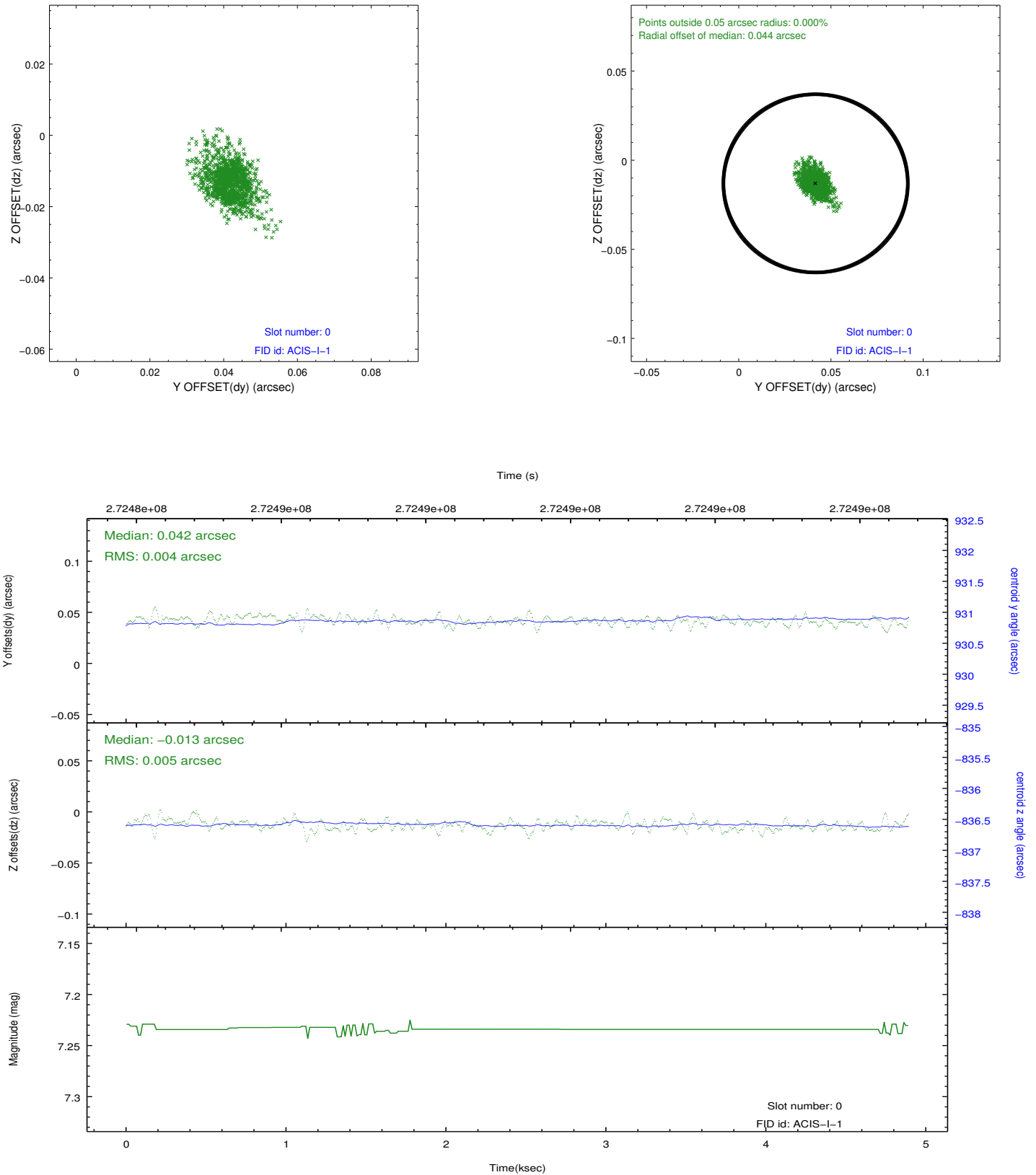


Time (s)

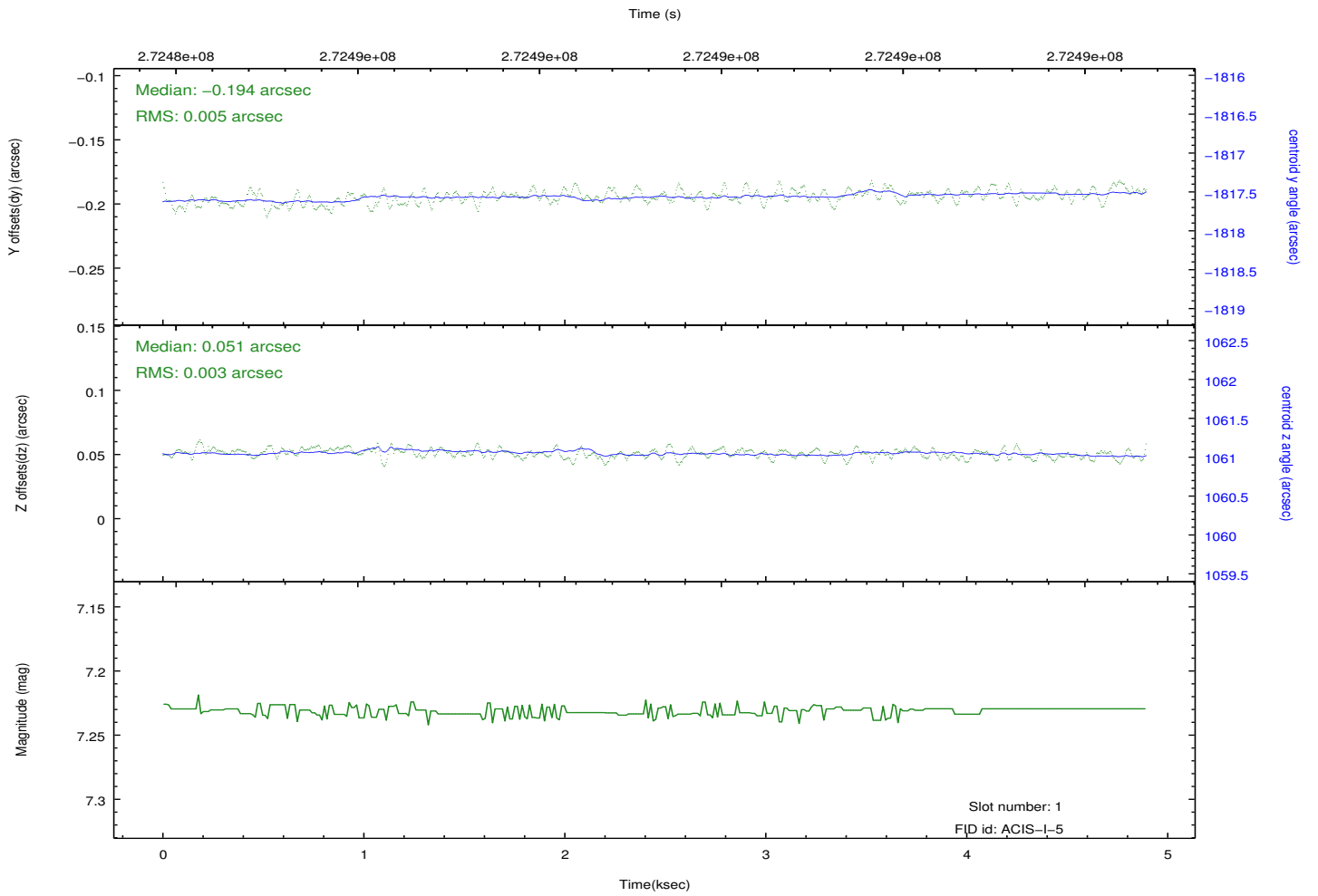
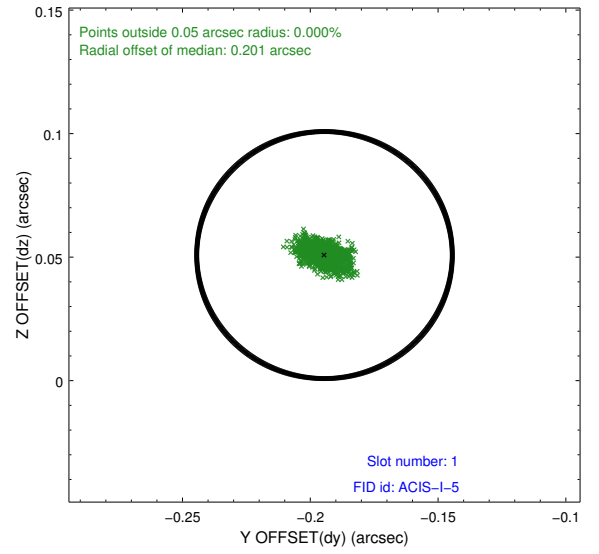
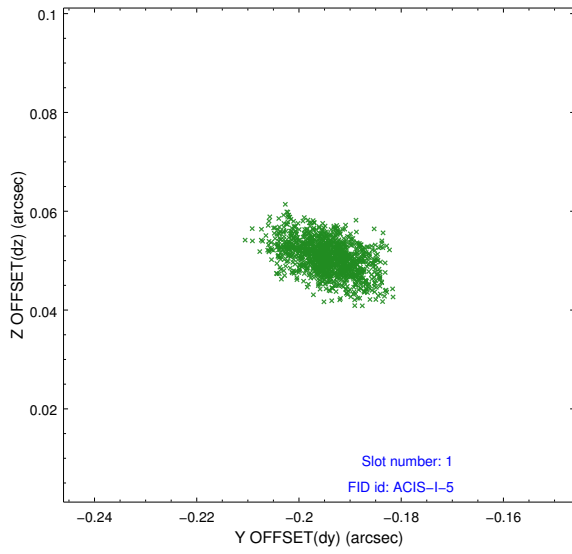


## 2.5 FID Slots

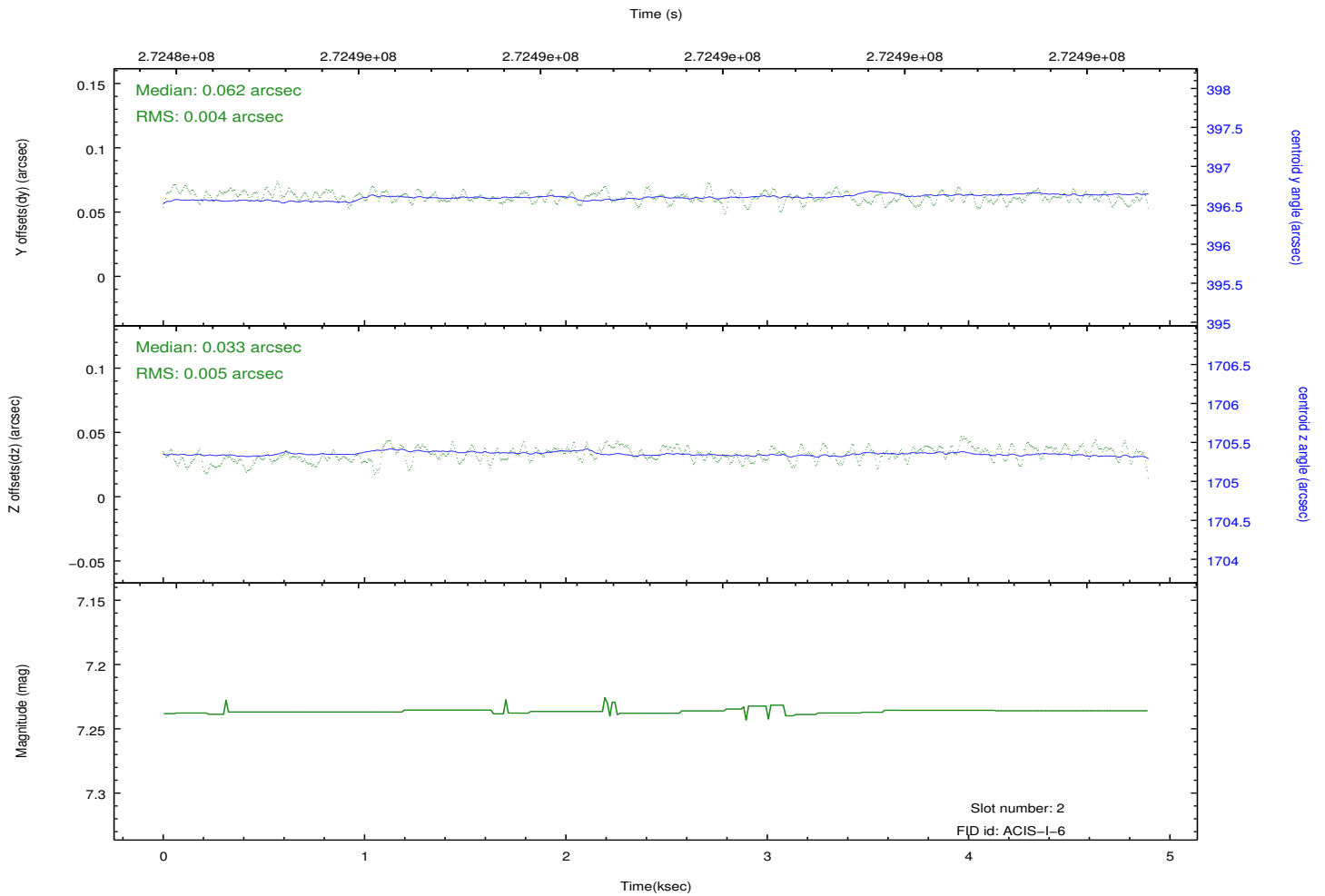
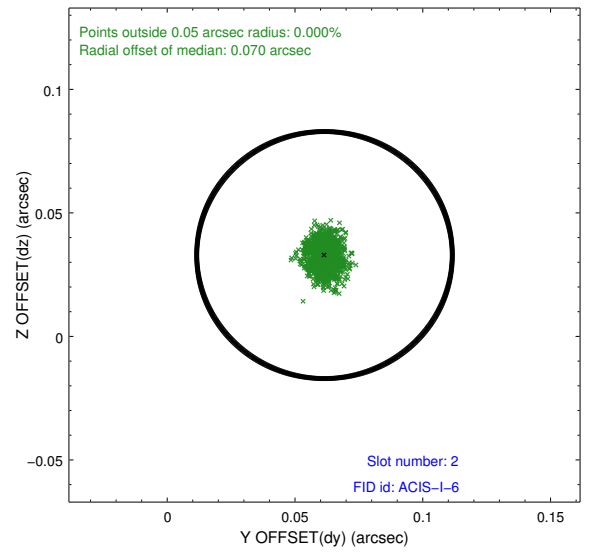
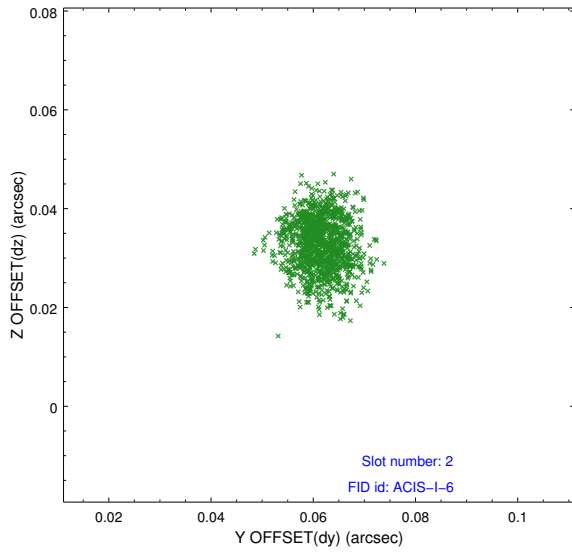
### 2.5.1 Slot 0



## 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)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.47640003

## A.2 Comments