

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7014 - L2 Version 2  
Chandra X-Ray Center

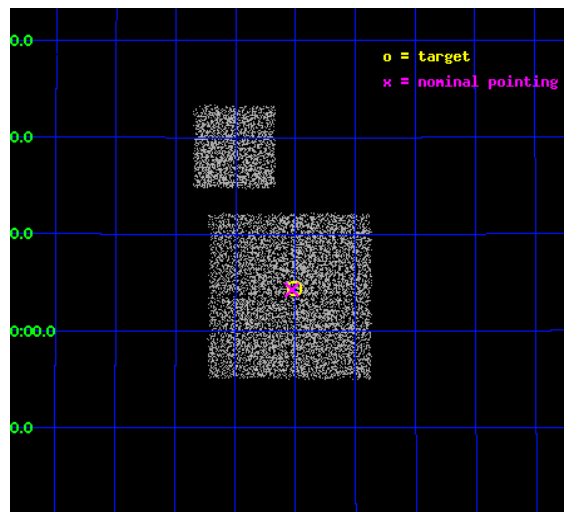
L2 Processing Date : Apr 12 2012

## 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

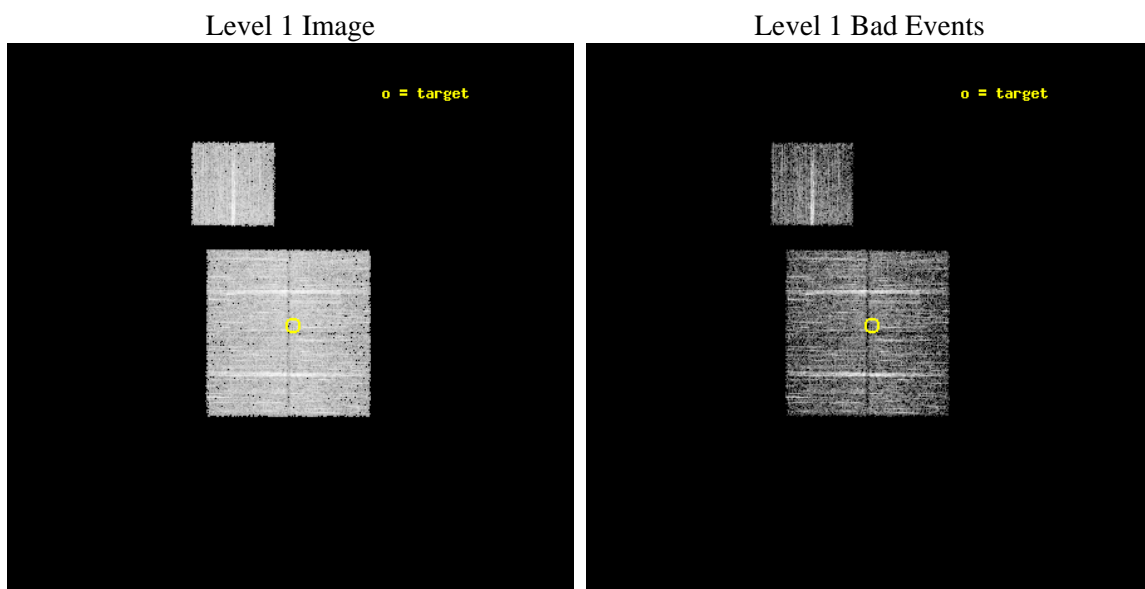
seq_num	900430	Sequence number
obs_id	7014	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (B)	Propo
observer	Dr. Stephen Murray	Principal investigator
object	Bootes2 4B	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.377604	Observer's specified target RA [deg]
dec_targ	33.072786	Observer's specified target Dec [deg]
ra_nom	217.38269340641	Nominal RA [deg]
dec_nom	33.071081264756	Nominal Dec [deg]
roll_nom	0.20589788783051	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4776.8727967739	Sum of GTIs [s]
livetime	4714.4594370015	Livetime [s]
ontime0	4773.6087164283	Sum of GTIs [s]
ontime1	4776.7907167673	Sum of GTIs [s]
ontime2	4773.6908263564	Sum of GTIs [s]
ontime3	4776.8727967739	Sum of GTIs [s]
ontime6	4776.7086367607	Sum of GTIs [s]
l2events	13605	Number of level 2 events



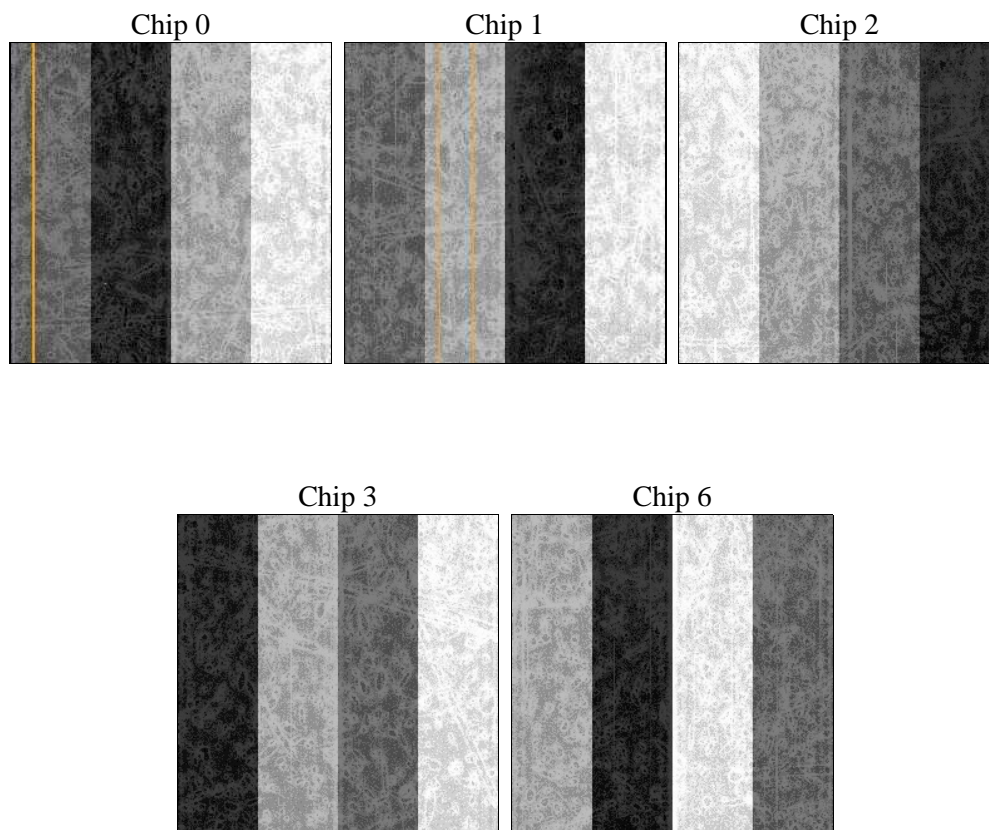
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4776.8727967739	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4773.6087164283	Sum of GTIs [s]
date	2012-04-12T23:21:21	Date and time of file creation	ontime1	4776.7907167673	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4773.6908263564	Sum of GTIs [s]
			ontime3	4776.8727967739	Sum of GTIs [s]
			ontime6	4776.7086367607	Sum of GTIs [s]
			l1events	171462	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	32971	32136	37940	34638	33777
rejected events	29586	28663	34760	31484	30325
rejected %	89%	89%	91%	90%	89%

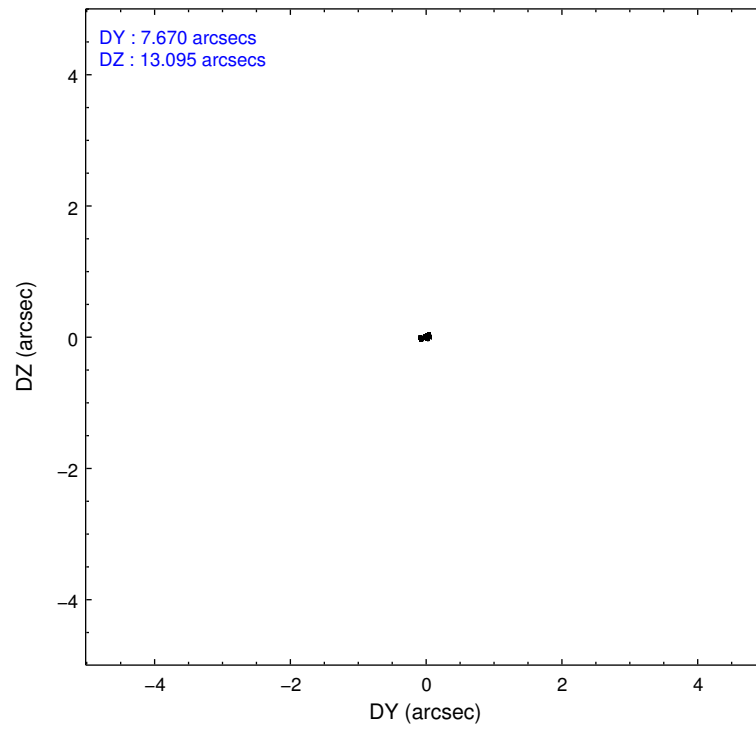
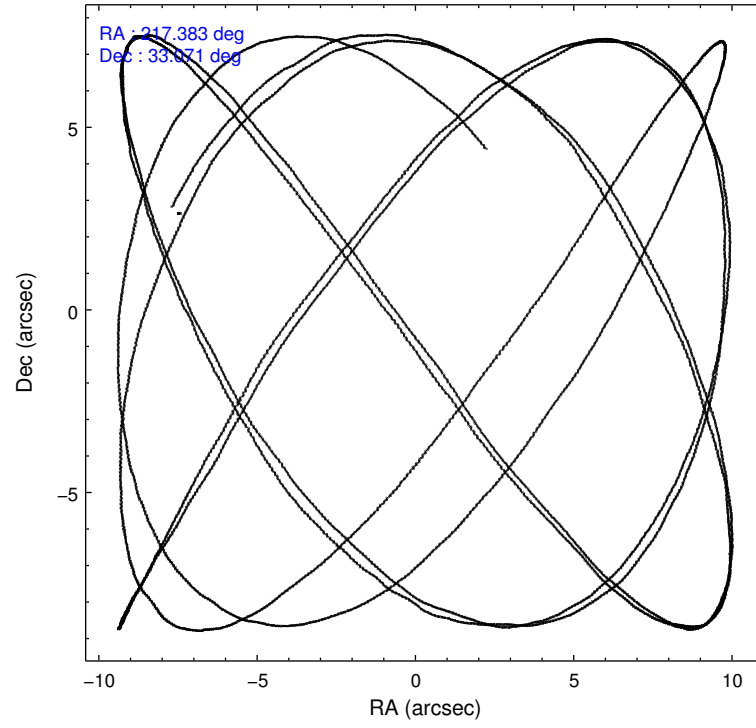
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1271	1157	1188	1136	1292
	3%	3%	3%	3%	3%
grade 1 events	19	18	20	29	19
	0%	0%	0%	0%	0%
grade 2 events	801	761	795	716	754
	2%	2%	2%	2%	2%
grade 3 events	361	439	336	346	393
	1%	1%	0%	0%	1%
grade 4 events	342	404	332	354	373
	1%	1%	0%	1%	1%
grade 5 events	935	1110	933	1133	1173
	2%	3%	2%	3%	3%
grade 6 events	614	716	531	602	641
	1%	2%	1%	1%	1%
grade 7 events	28628	27531	33805	30322	29132
	86%	85%	89%	87%	86%

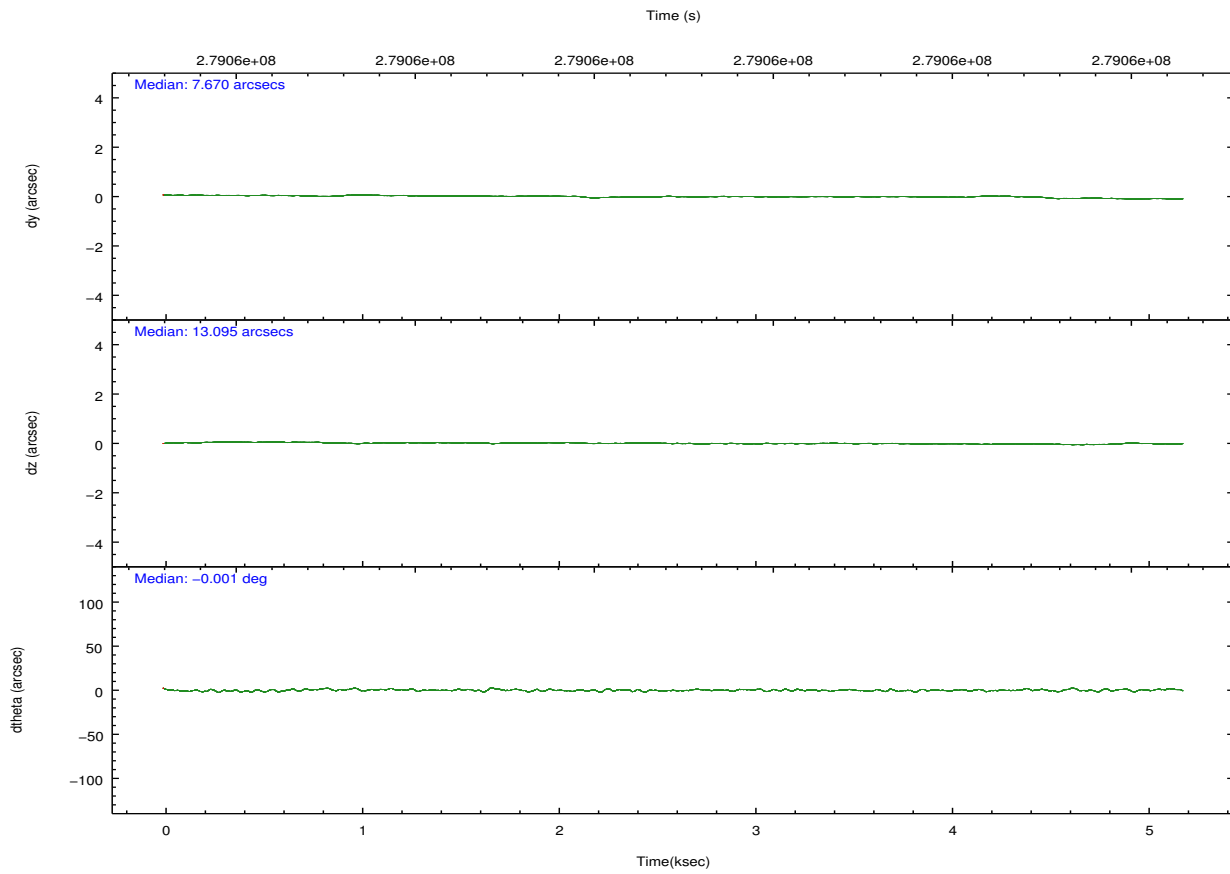
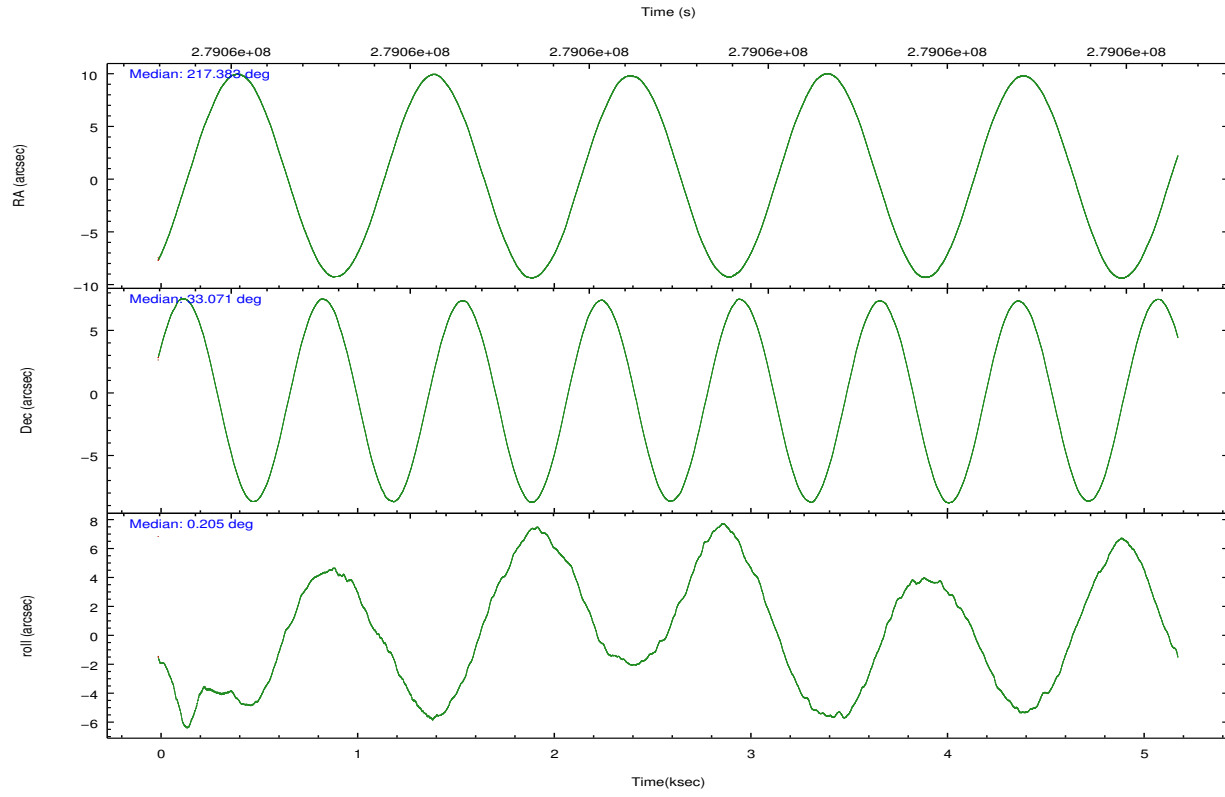


## 2.2 Compared Parameters

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	217.354532	217.3826934064054	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.057122	33.07108126475626	Alternating exposures requested	N	N
[deg] Pointing Roll	0.012579	0.2058978878305147	[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)	279059020.184000	279058644.35914			
Observation start date	2006-11-04T20:22:35	2006-11-04T20:17:24			
[s] Observation end time (MET)	279064020.184000	279064154.2469			
Observation end date	2006-11-04T21:45:55	2006-11-04T21:49:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect



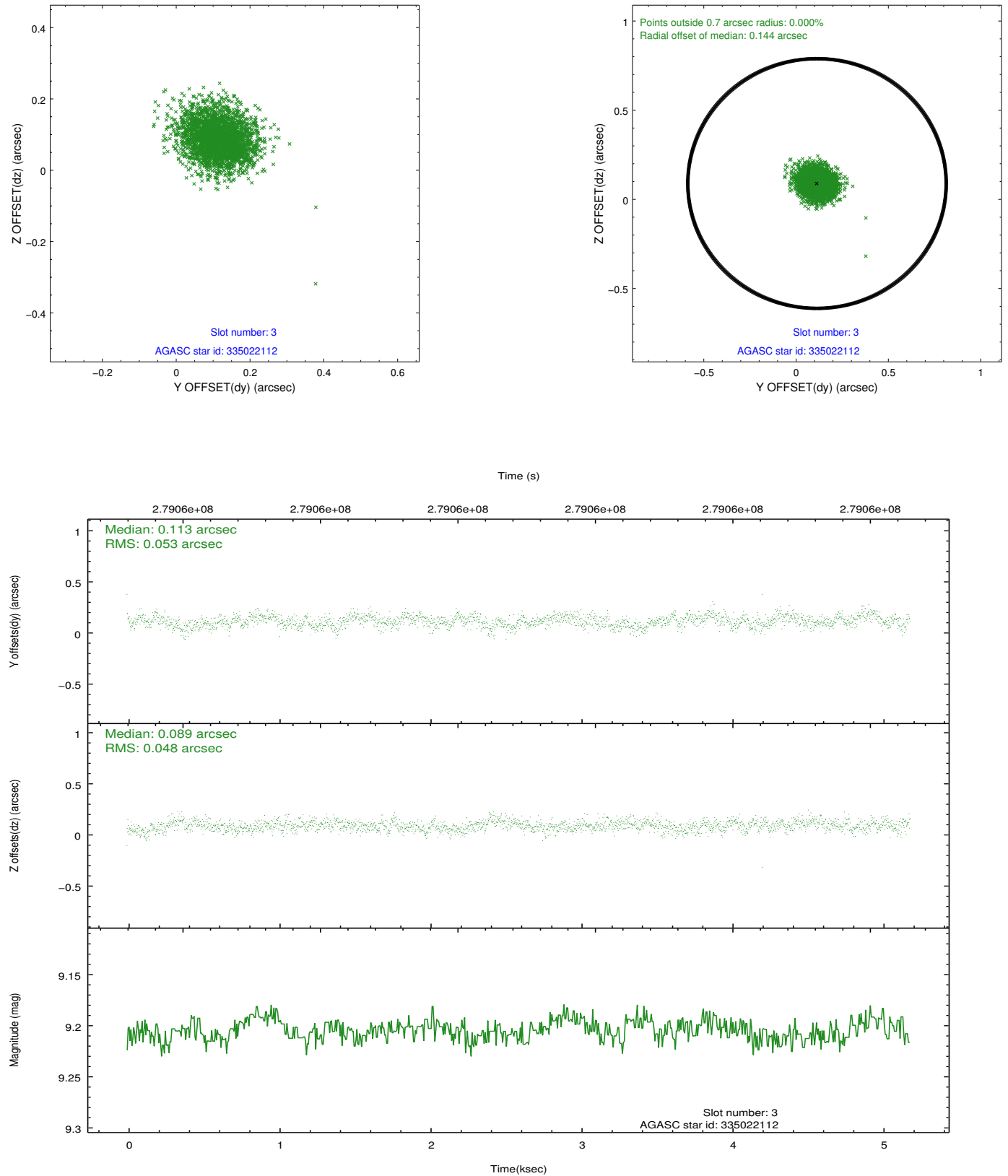


### Slot Statistics

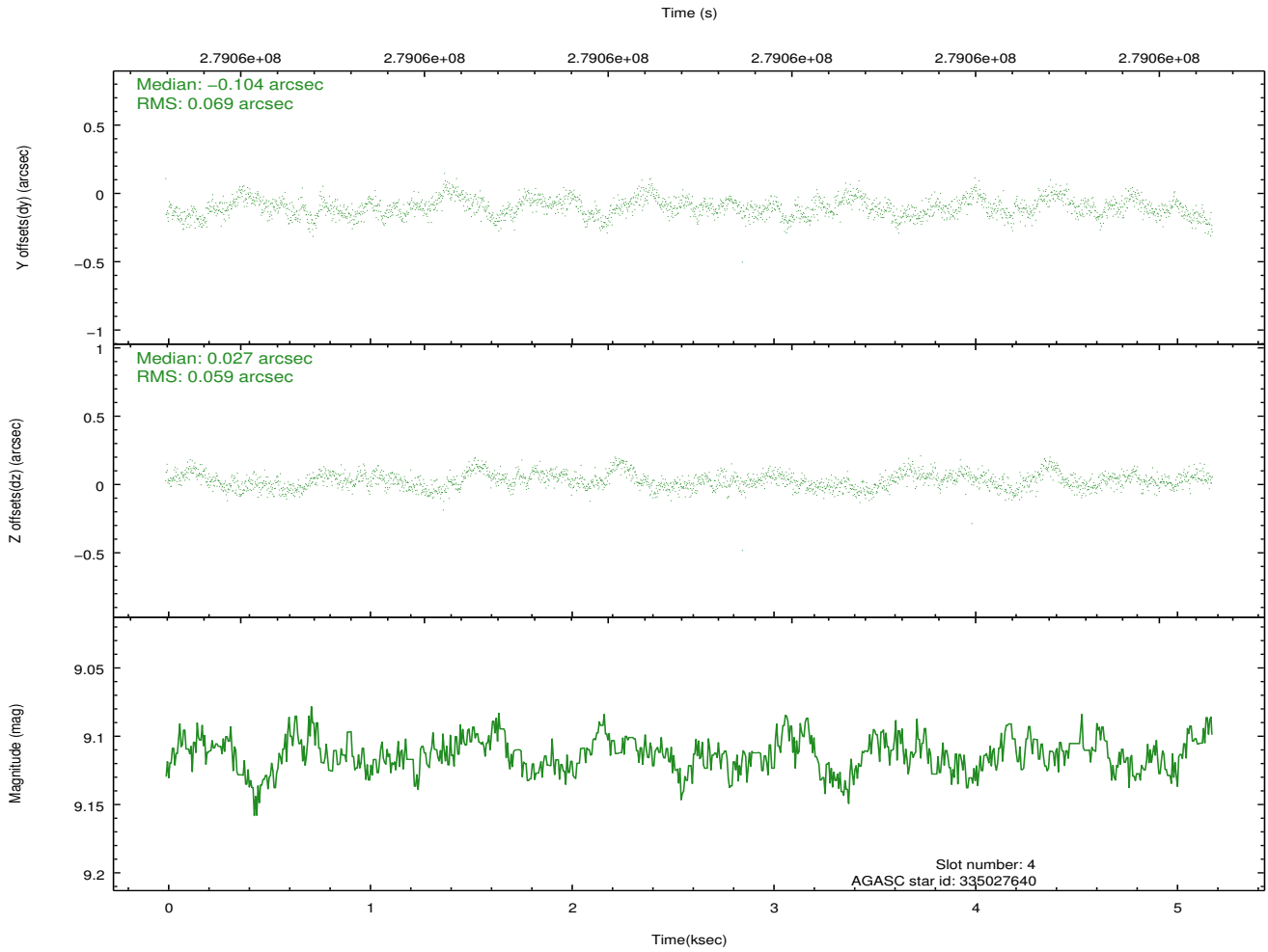
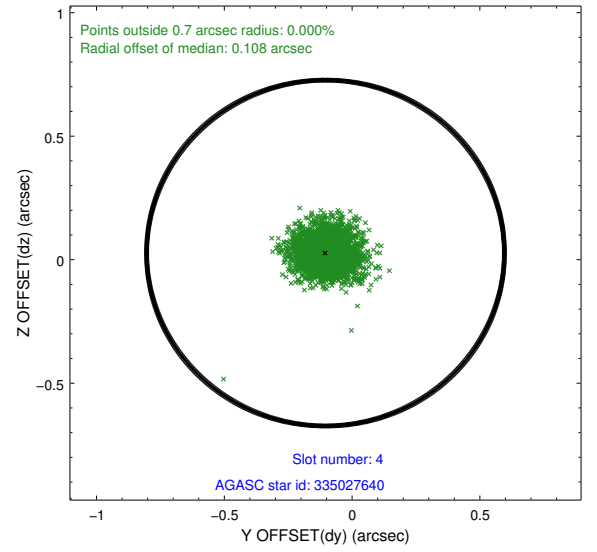
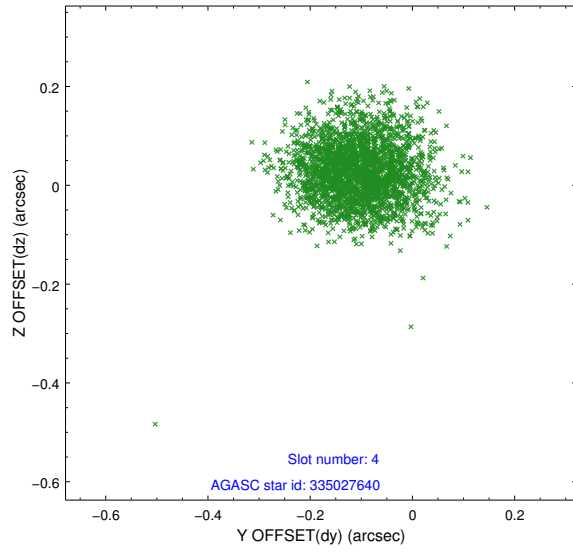
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1266	-0.064	0.053	0.009	0.015	0.000000	0.000000	931.92	-836.61
1	FID	ACIS-I-2	7.14	1265	-0.150	-0.090	0.007	0.011	0.000000	0.000000	-761.61	-843.75
2	FID	ACIS-I-4	7.19	1264	0.116	0.104	0.007	0.012	0.000000	0.000000	2151.48	1062.64
3	GUIDE	335022112	9.20	2529	0.113	0.089	0.075	0.120	216.659296	32.794758	-2103.64	-937.57
4	GUIDE	335027640	9.11	2531	-0.104	0.027	0.097	0.156	218.092211	33.193770	2221.77	498.79
5	GUIDE	335028240	9.16	2529	0.001	0.091	0.075	0.122	216.746851	33.385009	-1825.66	1186.45
6	GUIDE	335029384	8.49	2528	-0.039	-0.064	0.060	0.094	217.848061	33.088477	1488.30	116.06
7	GUIDE	335029808	9.08	2530	0.025	-0.143	0.067	0.110	216.789548	33.180488	-1701.39	448.88

## 2.4 Star Slots

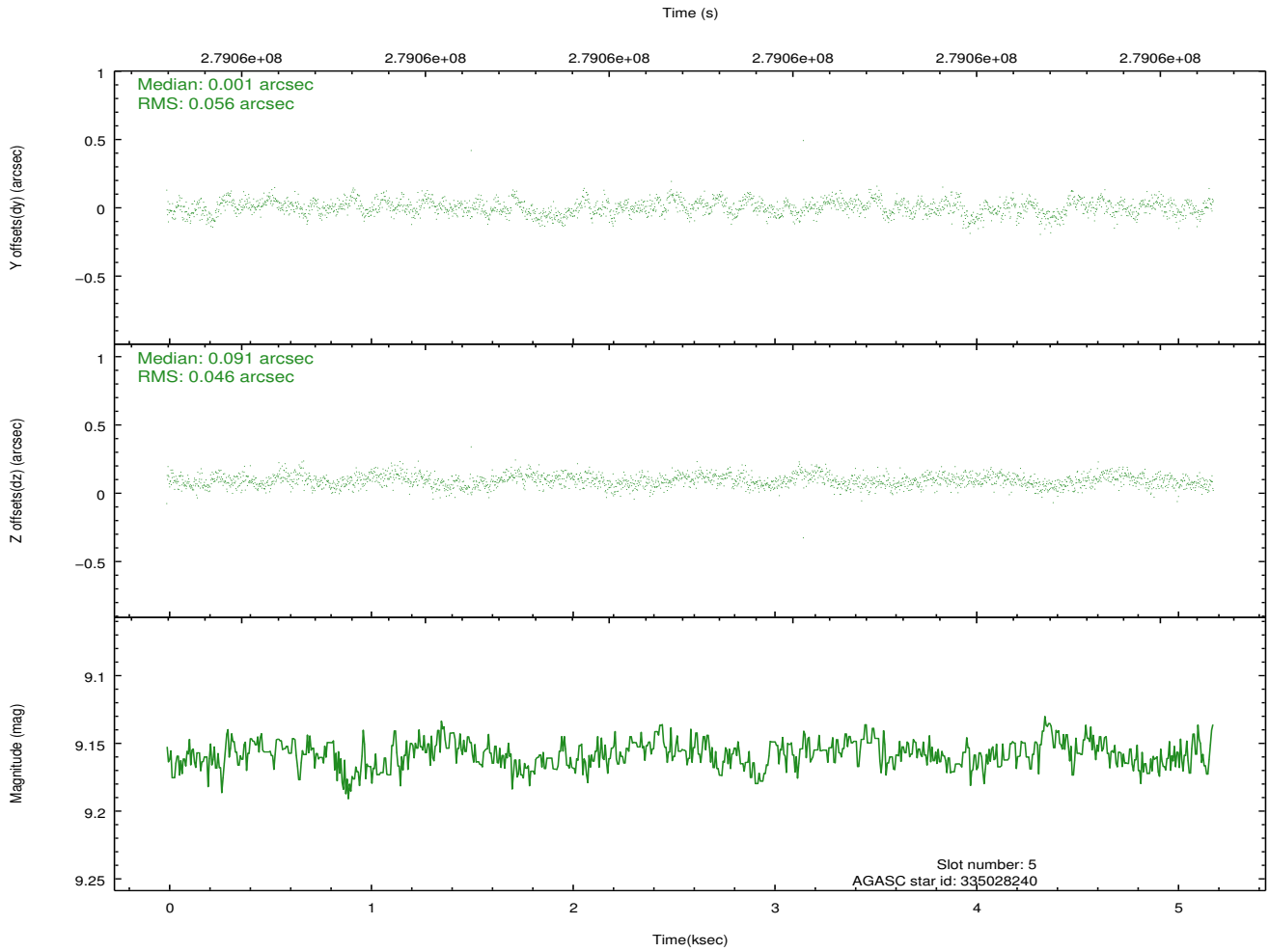
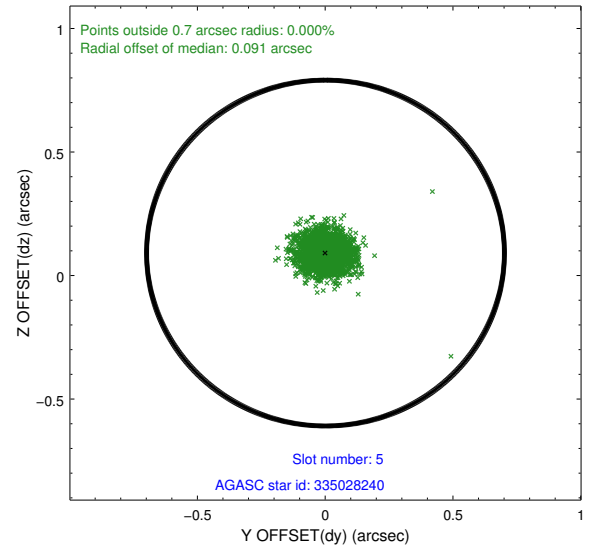
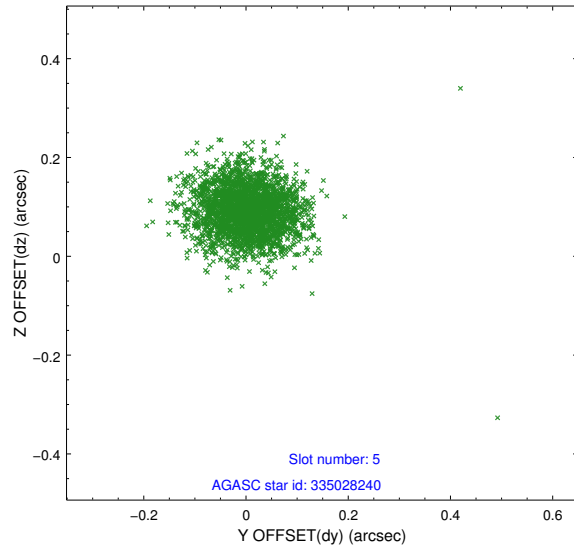
### 2.4.1 Slot 3



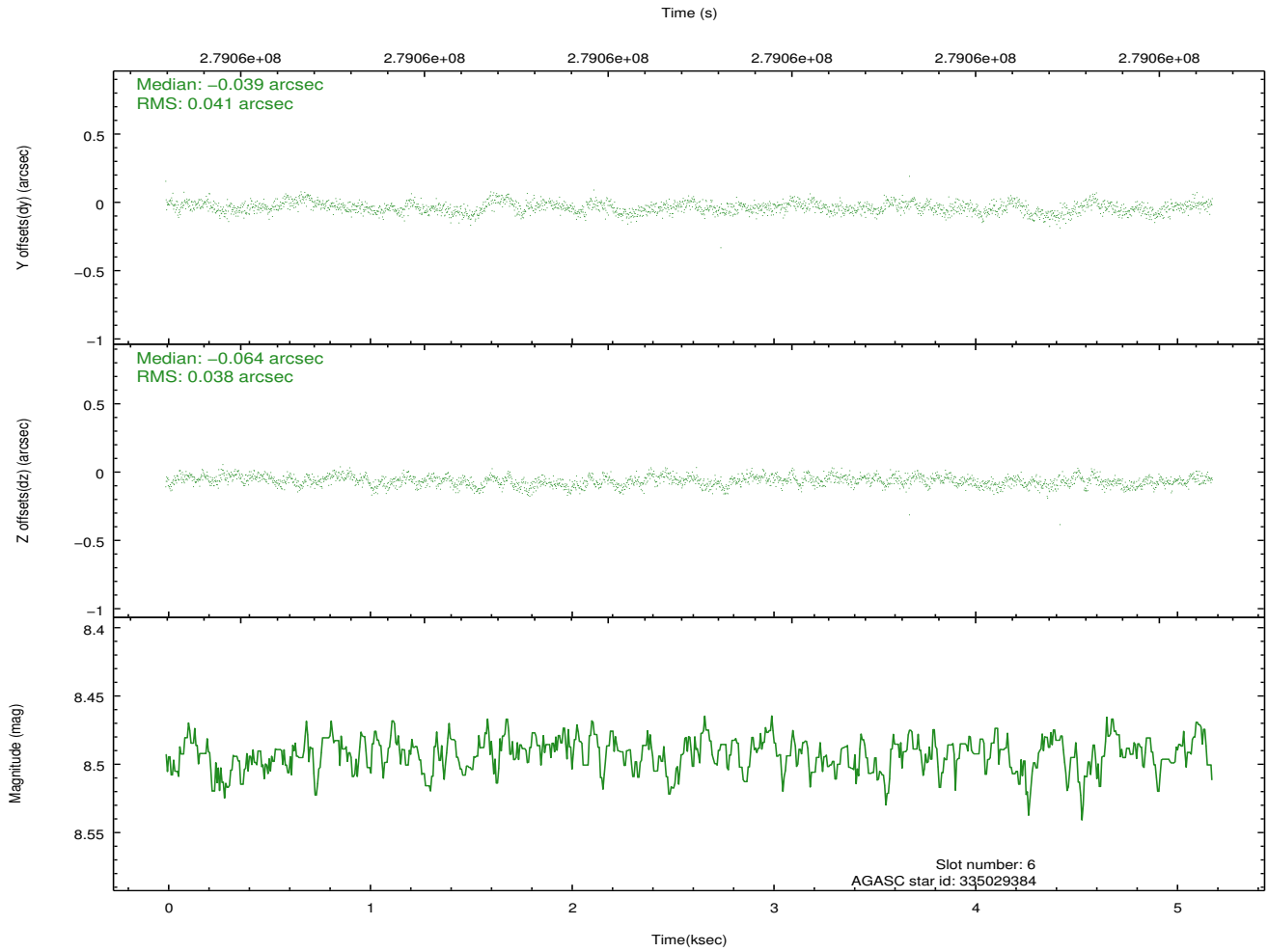
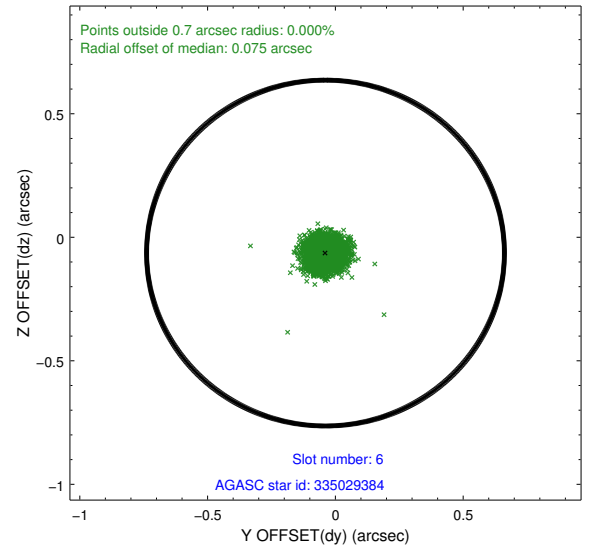
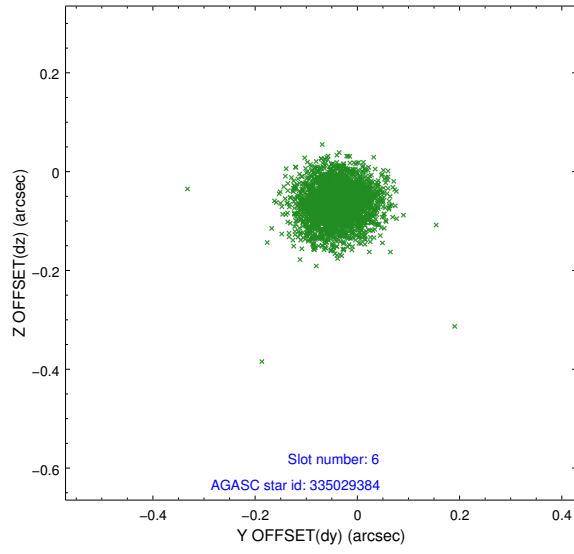
## 2.4.2 Slot 4



### 2.4.3 Slot 5

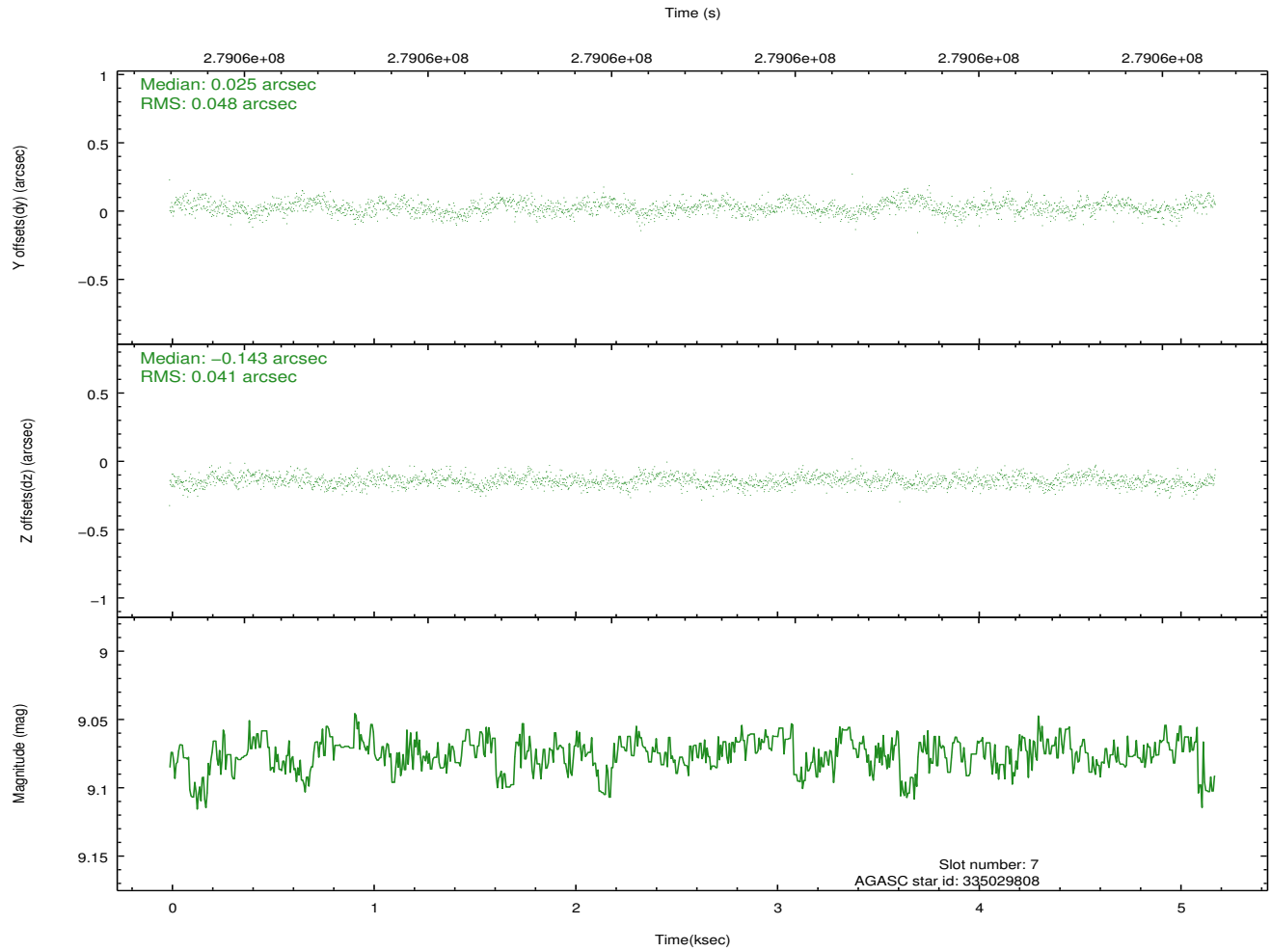
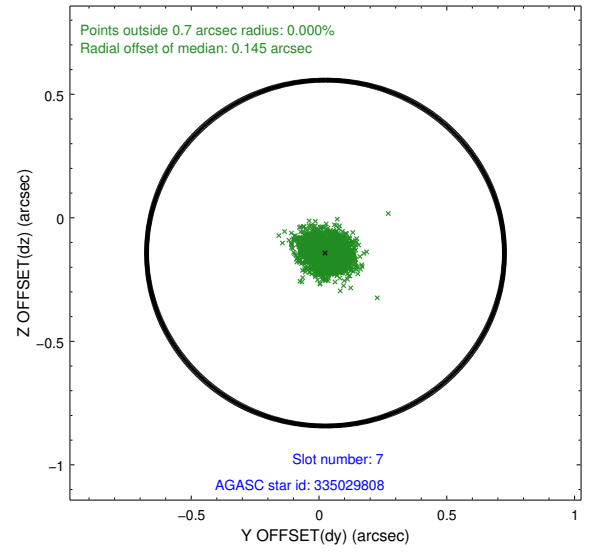
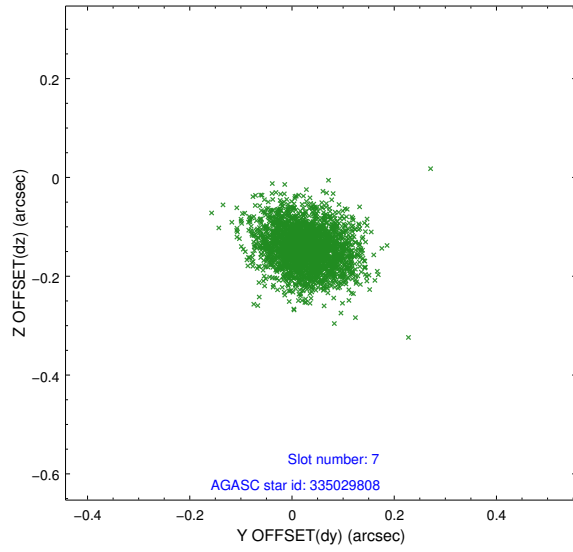


## 2.4.4 Slot 6



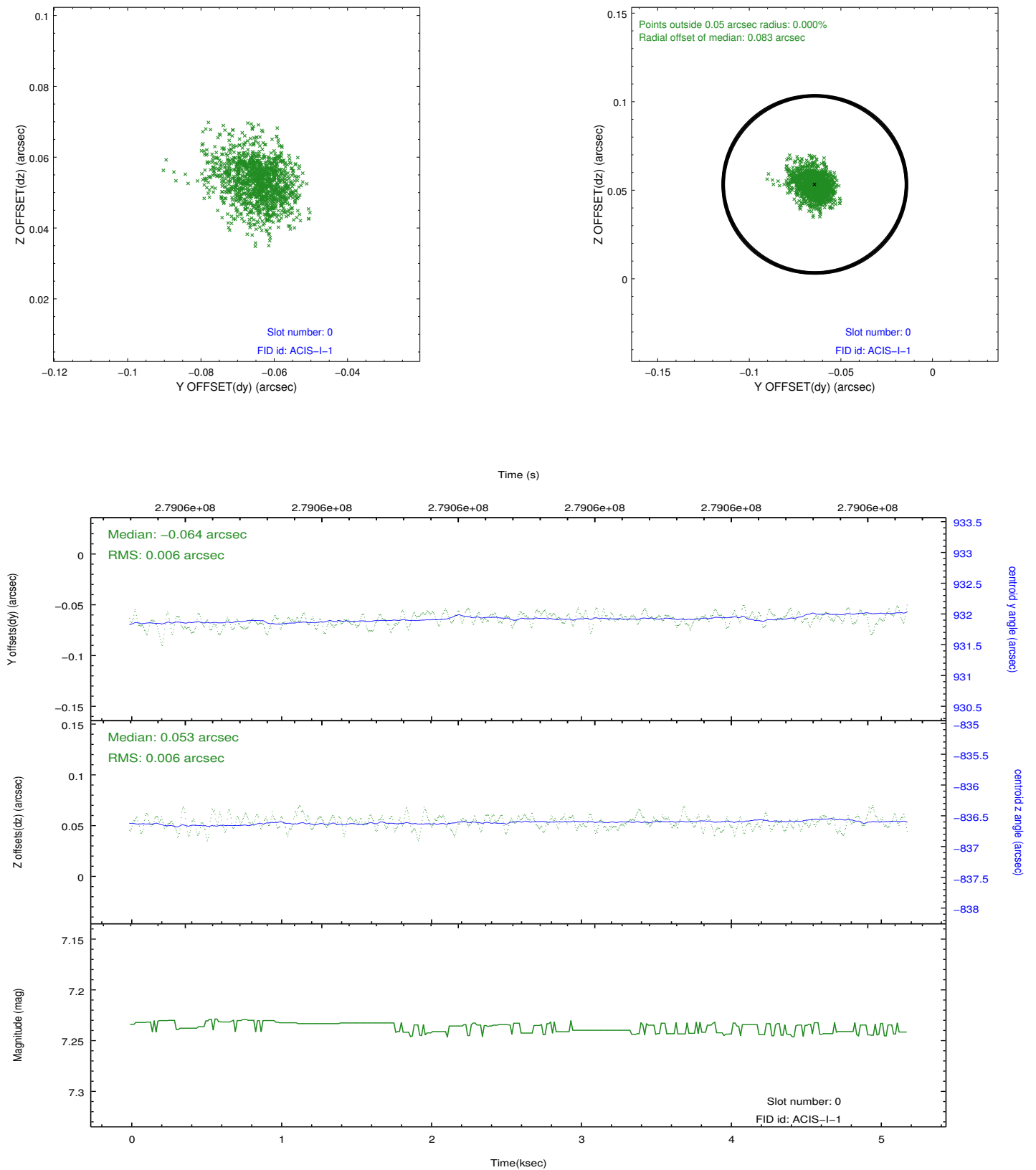


## 2.4.5 Slot 7

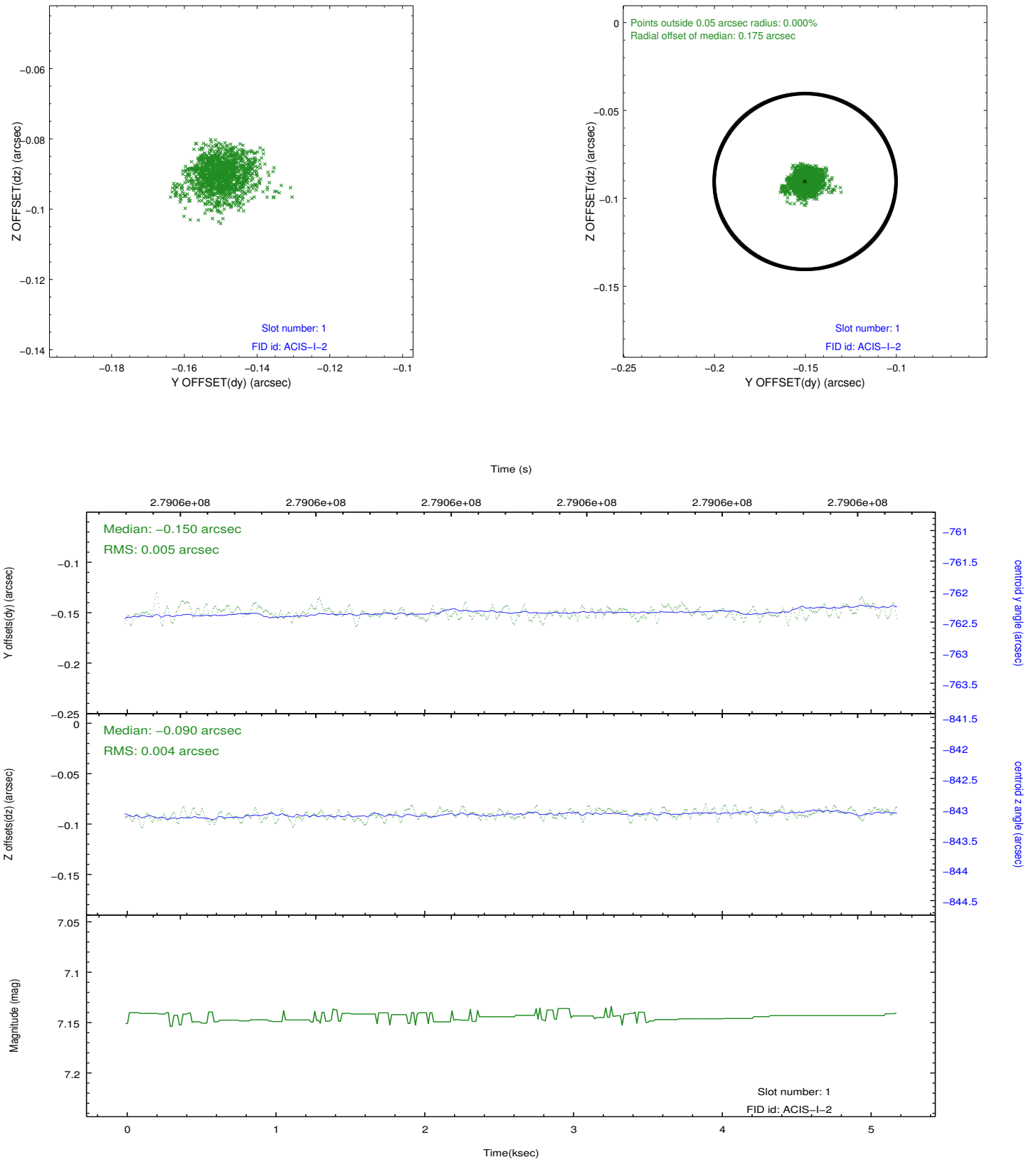


## 2.5 FID Slots

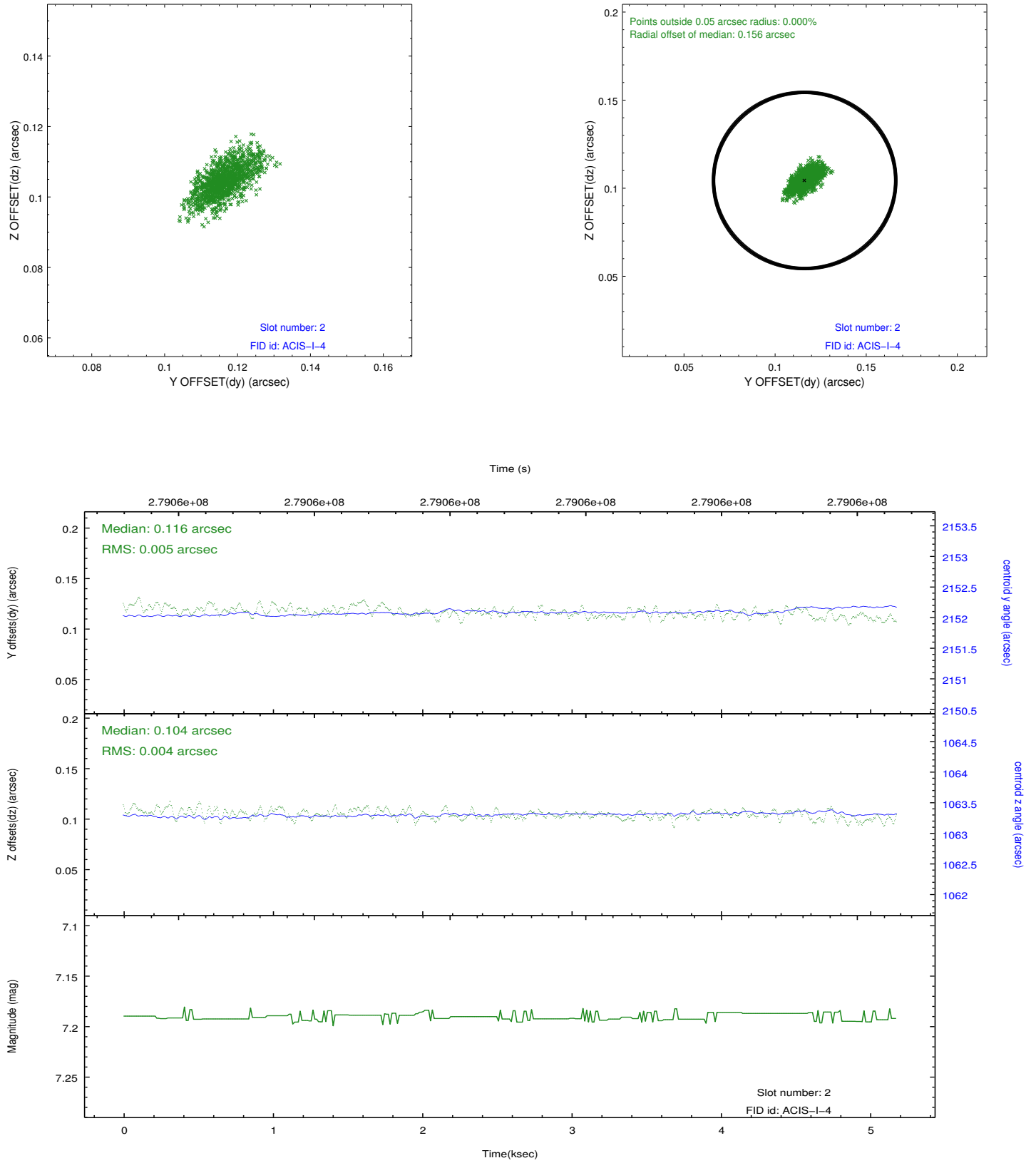
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77710003

### A.2 Comments