

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11723 - L2 Version 2  
Chandra X-Ray Center

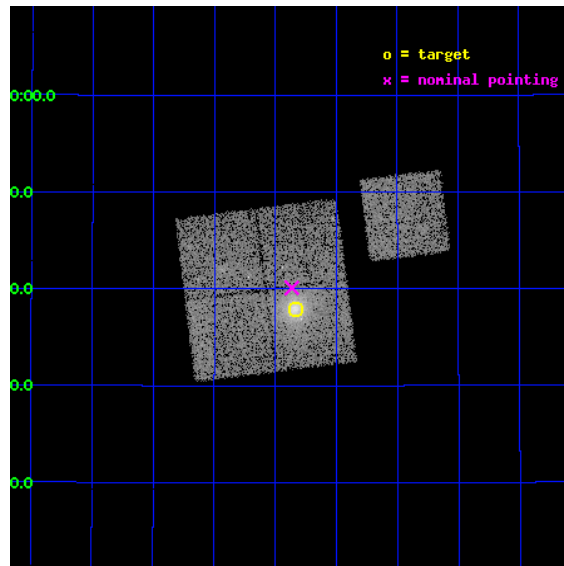
L2 Processing Date : Jun 14 2012

## 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

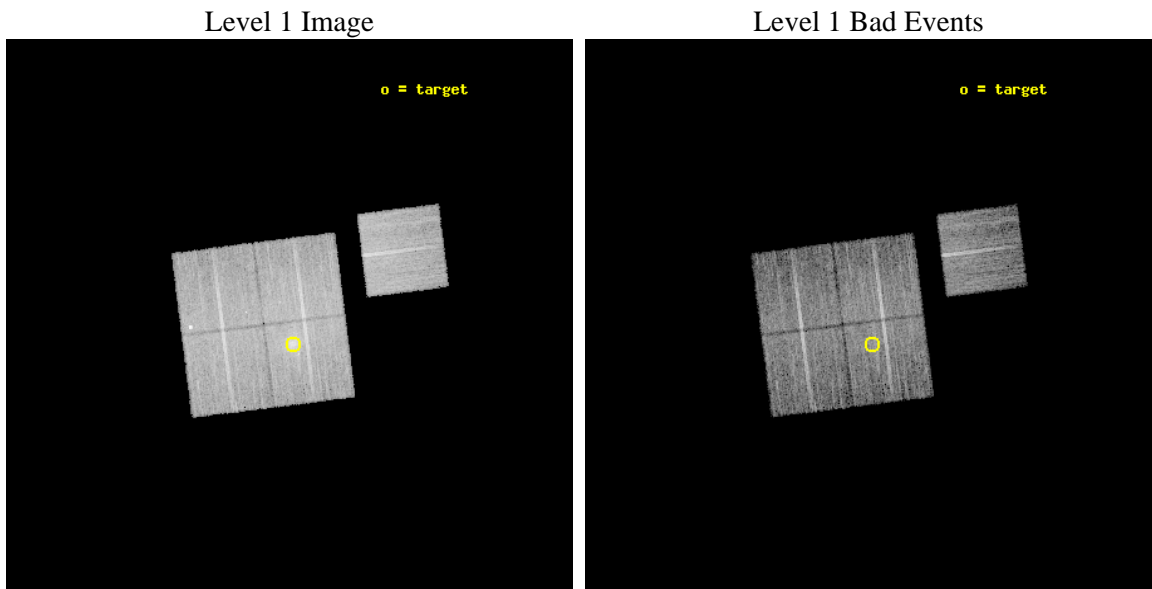
seq_num	800863	Sequence number
obs_id	11723	Observation id
title	Cosmology with a complete sample of 0.15	Proposal title
observer	Prof. Massimiliano Bonamente	Principal investigator
object	Abell 586	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.083333	Observer's specified target RA [deg]
dec_targ	31.631389	Observer's specified target Dec [deg]
ra_nom	113.09103759988	Nominal RA [deg]
dec_nom	31.668566239838	Nominal Dec [deg]
roll_nom	82.833013593528	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10043.894083619	Sum of GTIs [s]
livetime	9912.6632132094	Livetime [s]
ontime0	10040.629953265	Sum of GTIs [s]
ontime1	10043.812003613	Sum of GTIs [s]
ontime2	10037.571052909	Sum of GTIs [s]
ontime3	10043.894083619	Sum of GTIs [s]
ontime6	10043.729923606	Sum of GTIs [s]
l2events	48035	Number of level 2 events



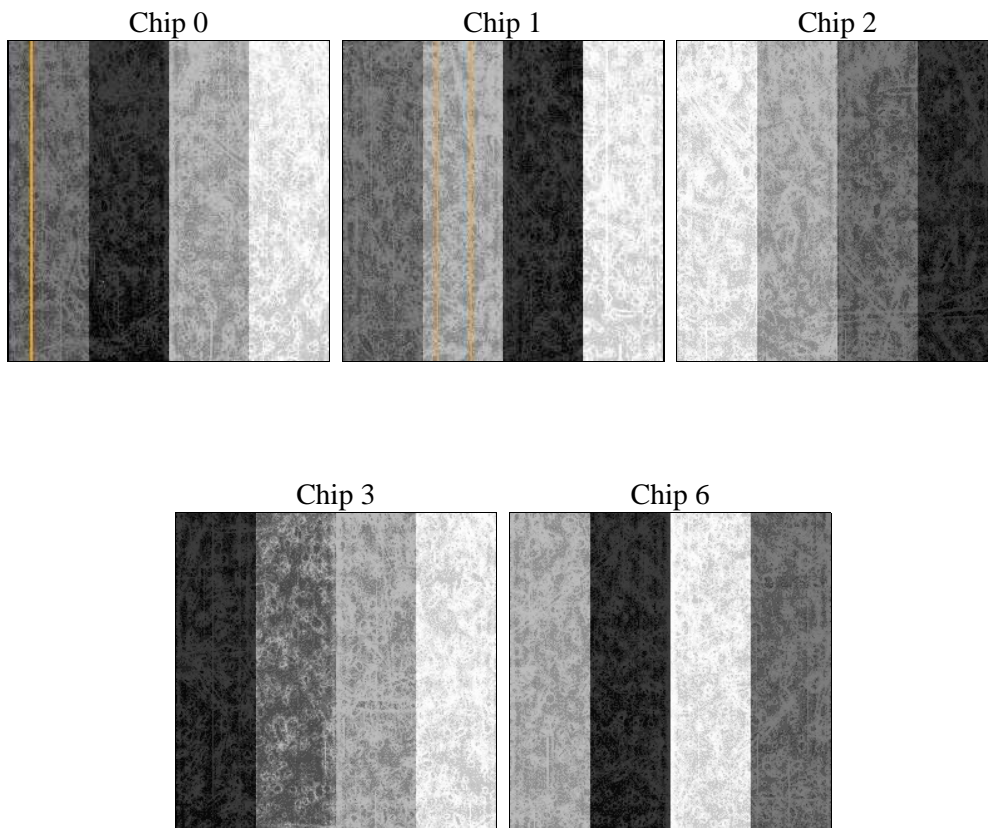
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10043.894083619	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	10040.629953265	Sum of GTIs [s]
date	2012-06-15T00:57:46	Date and time of file creation	ontime1	10043.812003613	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10037.571052909	Sum of GTIs [s]
			ontime3	10043.894083619	Sum of GTIs [s]
			ontime6	10043.729923606	Sum of GTIs [s]
			l1events	434272	Number of level 1 events

### 2.1.4 Events

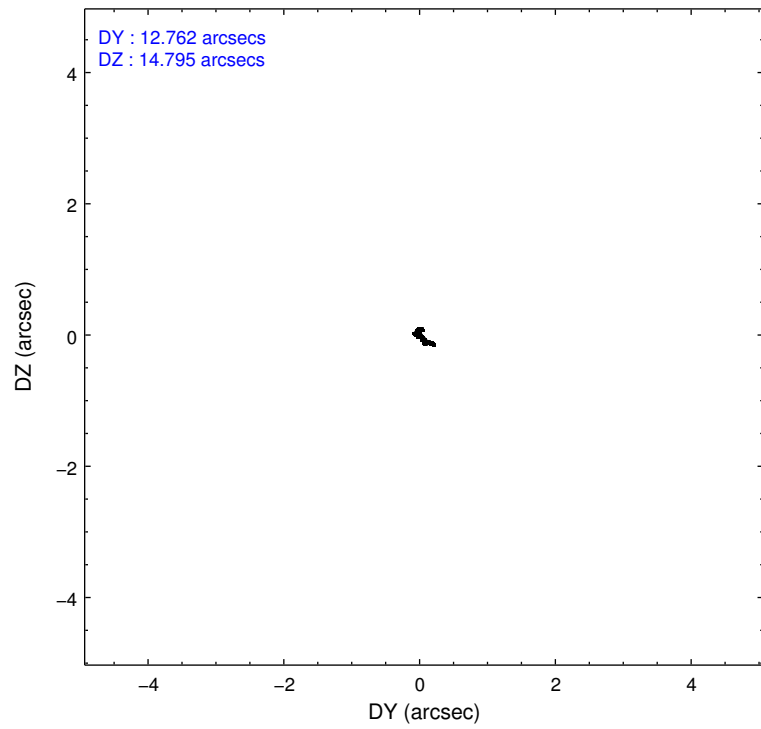
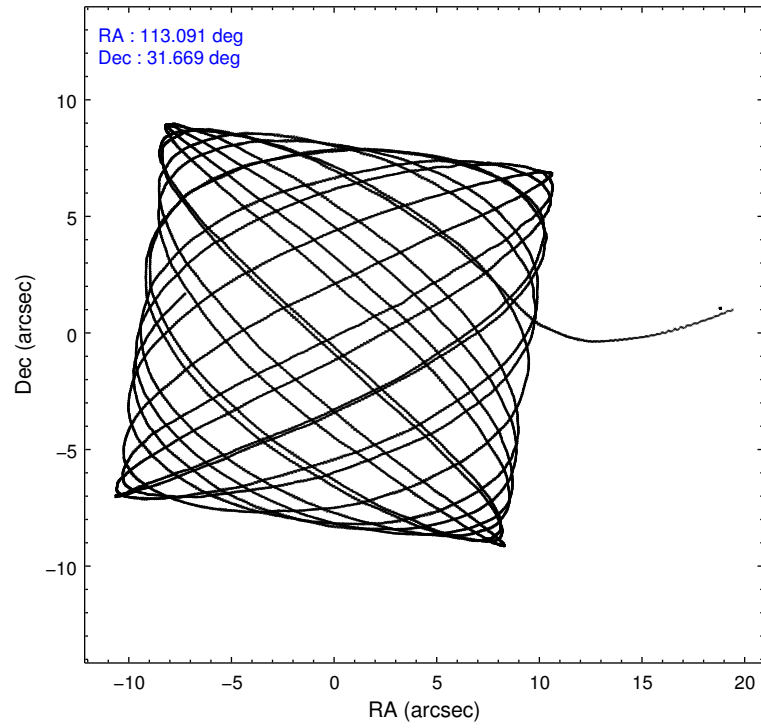
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	81343	81510	90853	94095	86471
rejected events	70517	71055	81852	76422	77251
rejected %	86%	87%	90%	81%	89%

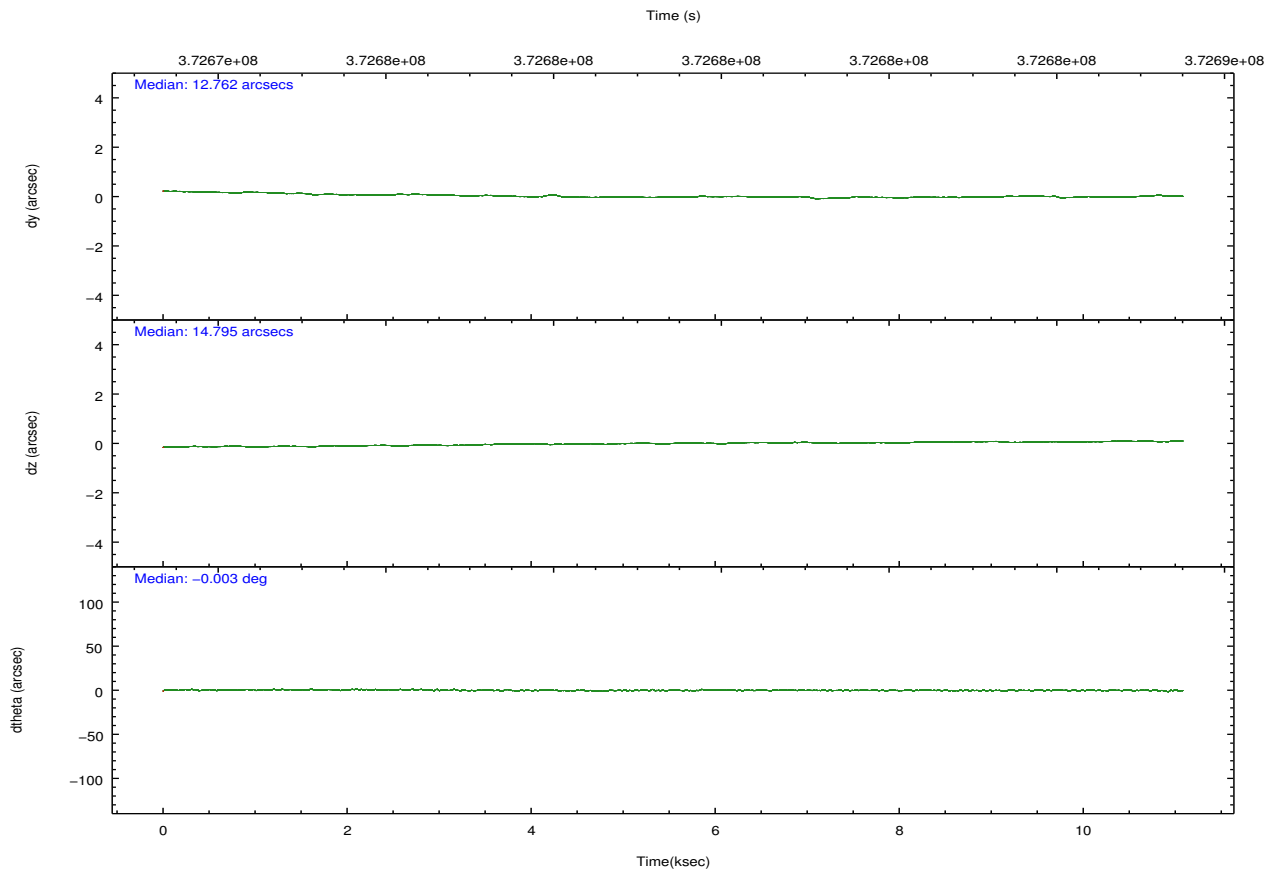
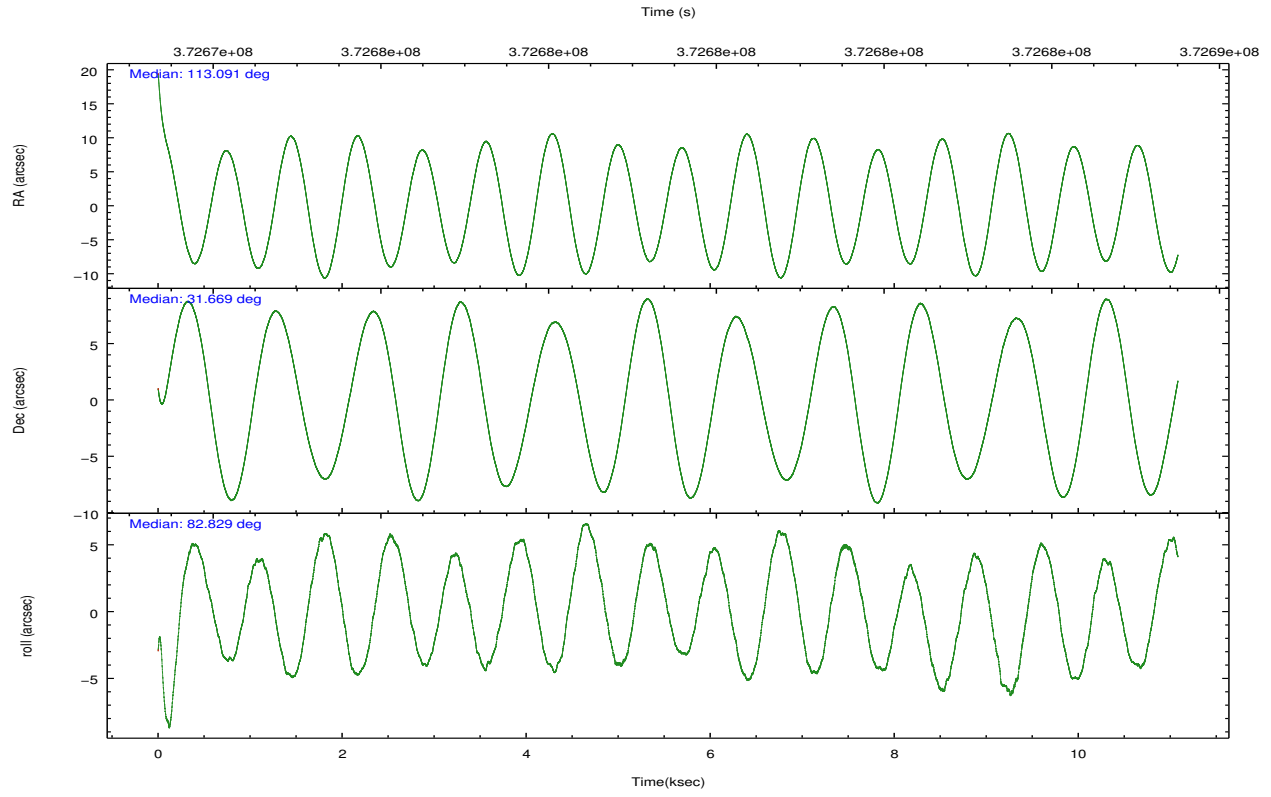
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3594	3885	3445	10516	3248
	4%	4%	3%	11%	3%
grade 1 events	63	54	57	105	47
	0%	0%	0%	0%	0%
grade 2 events	3500	2403	2106	2827	2002
	4%	2%	2%	3%	2%
grade 3 events	994	1073	900	1173	964
	1%	1%	0%	1%	1%
grade 4 events	951	1073	951	1205	969
	1%	1%	1%	1%	1%
grade 5 events	3281	3444	3021	3712	3513
	4%	4%	3%	3%	4%
grade 6 events	1788	2025	1599	1958	2038
	2%	2%	1%	2%	2%
grade 7 events	67172	67553	78774	72599	73690
	82%	82%	86%	77%	85%

## 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	113.103696	113.0910375998798	Subarray requested	NONE	NONE
[deg] Pointing Dec	31.643257	31.66856623983817	Alternating exposures requested	N	N
[deg] Pointing Roll	82.617677	82.83301359352772	[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	-227.592463	-227.5933067819097			
[mm] SIM translation stage offset	-6	-5.999146221020027			
[s] Observation start time (MET)	372674972.184000	372673096.4081			
Observation start date	2009-10-23T08:48:26	2009-10-23T08:18:16			
[s] Observation end time (MET)	372684972.184000	372685920.18374			
Observation end date	2009-10-23T11:35:06	2009-10-23T11:52:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect



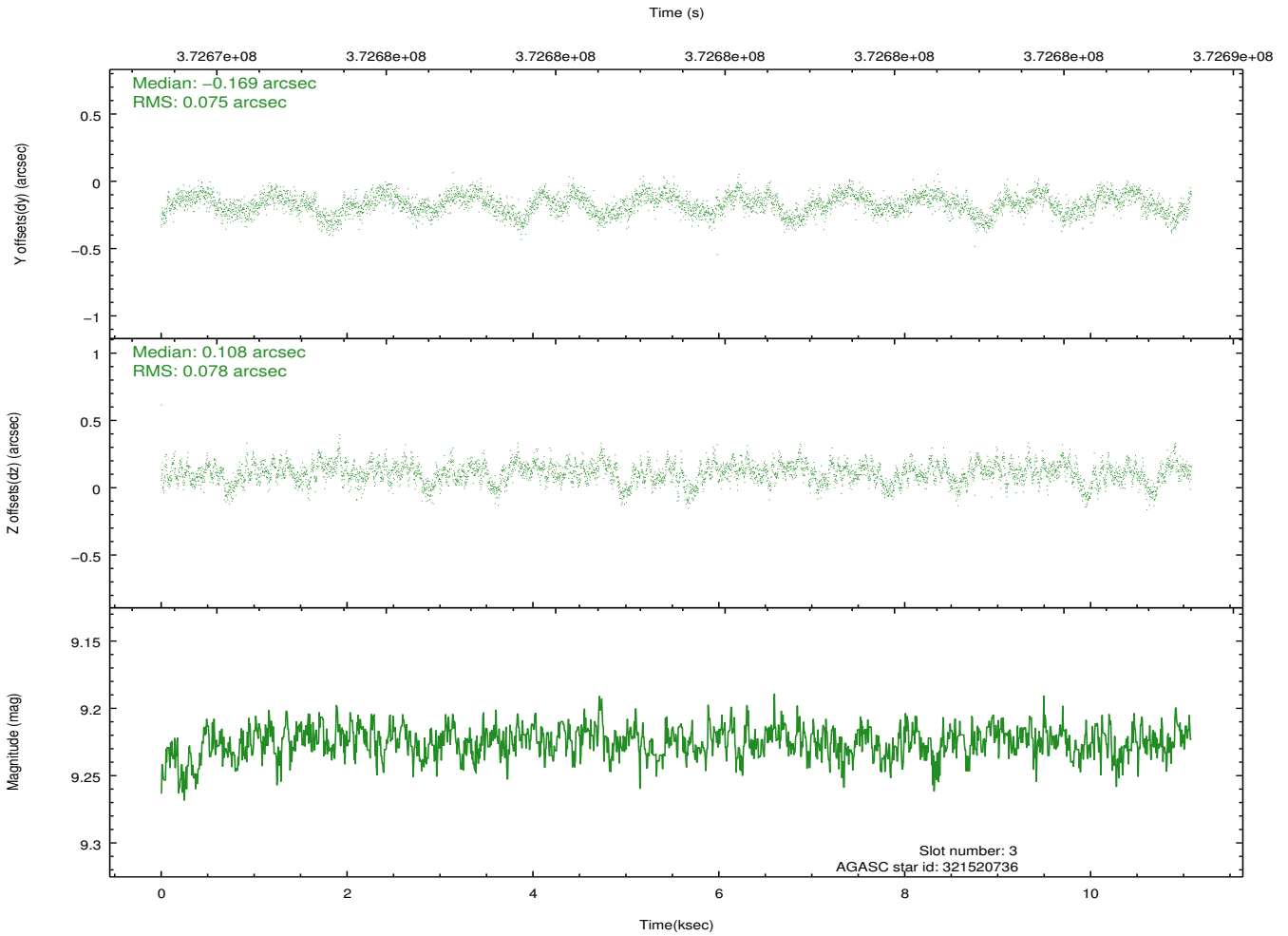
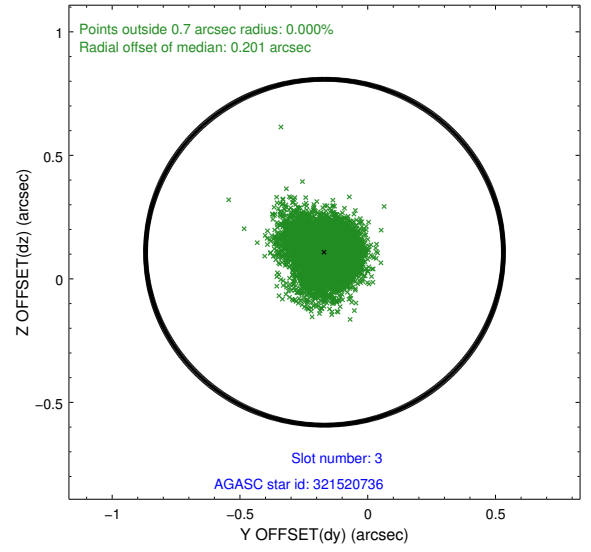
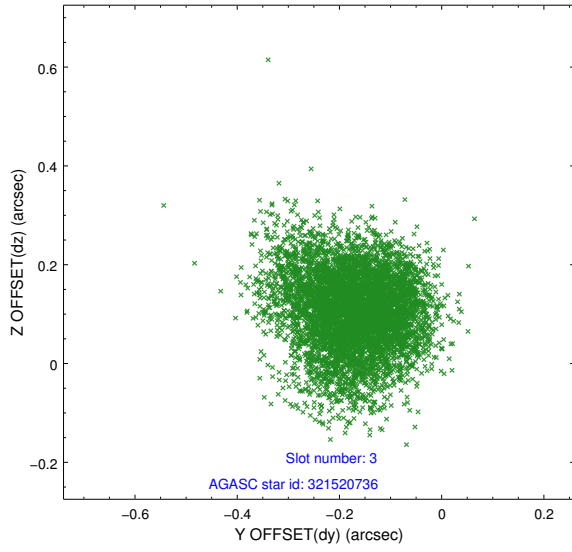


### Slot Statistics

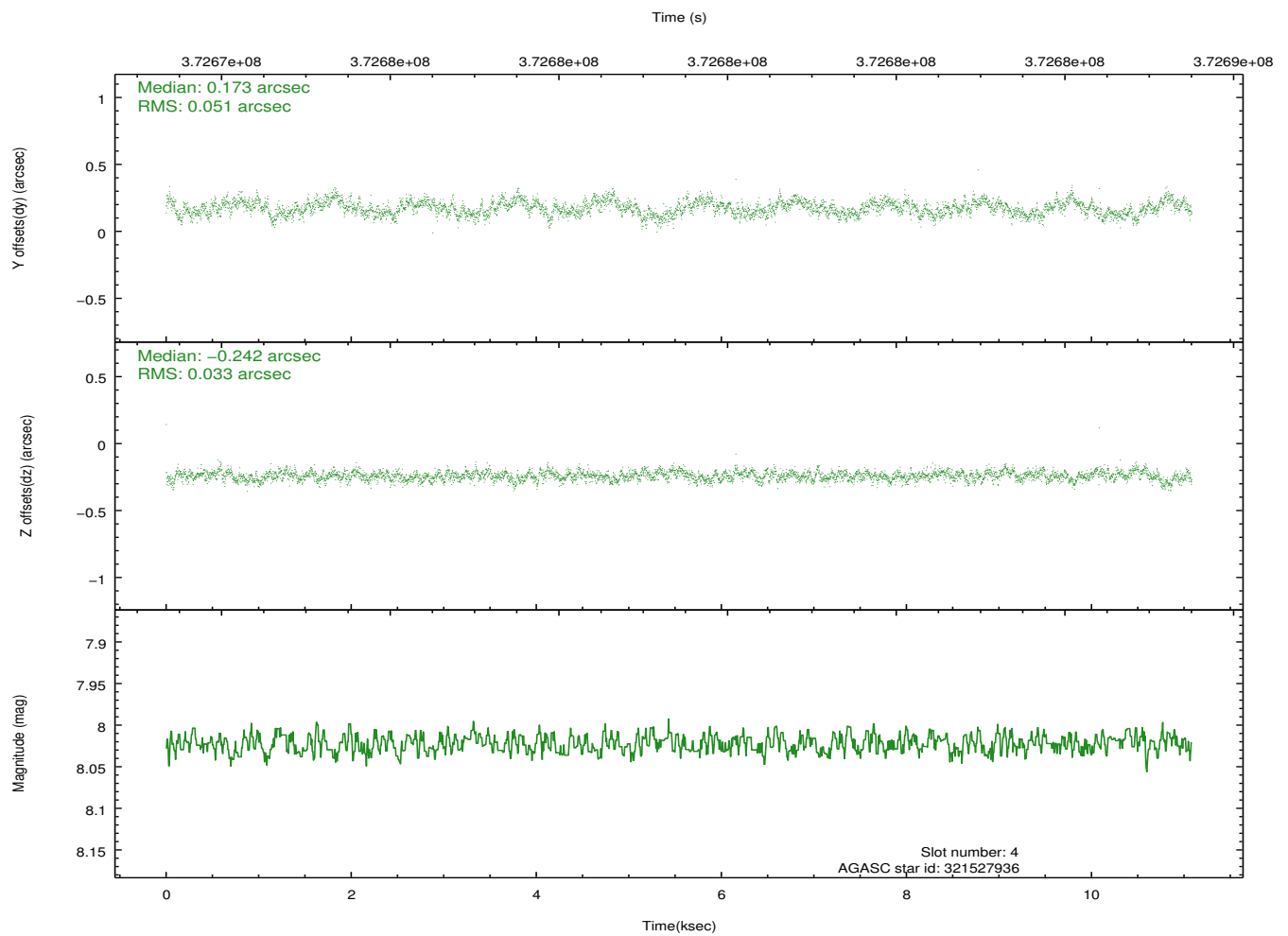
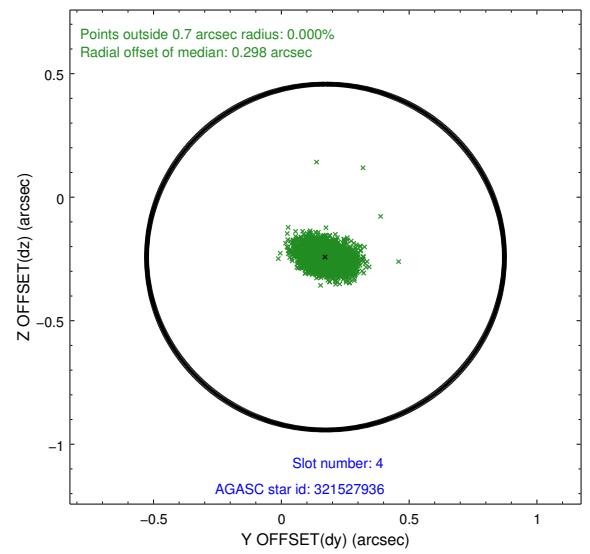
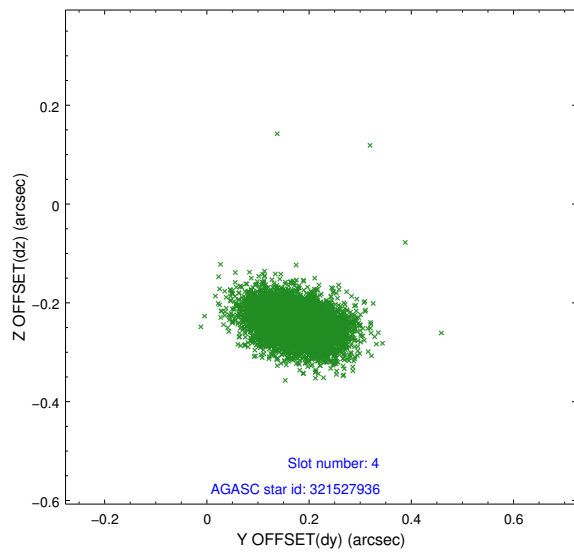
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	2704	0.087	-0.047	0.006	0.011	0.000000	0.000000	926.73	-961.53
1	FID	ACIS-I-5	7.00	2703	-0.244	0.080	0.007	0.012	0.000000	0.000000	-1821.50	935.74
2	FID	ACIS-I-6	7.01	2704	0.067	0.038	0.007	0.011	0.000000	0.000000	391.69	1580.78
3	GUIDE	321520736	9.23	5398	-0.169	0.108	0.115	0.186	113.387072	31.695033	297.47	-836.46
4	GUIDE	321527936	8.02	5405	0.173	-0.242	0.064	0.106	112.604277	31.145118	-1972.69	1295.78
5	GUIDE	321529016	9.11	5400	0.211	0.166	0.091	0.147	113.590081	31.231460	-1274.72	-1674.25
6	GUIDE	321532296	7.87	5394	0.028	0.165	0.064	0.100	113.066115	31.102052	-1947.17	-135.61
7	GUIDE	322050952	8.50	5403	-0.240	-0.192	0.076	0.115	112.842649	31.961208	1033.06	937.88

## 2.4 Star Slots

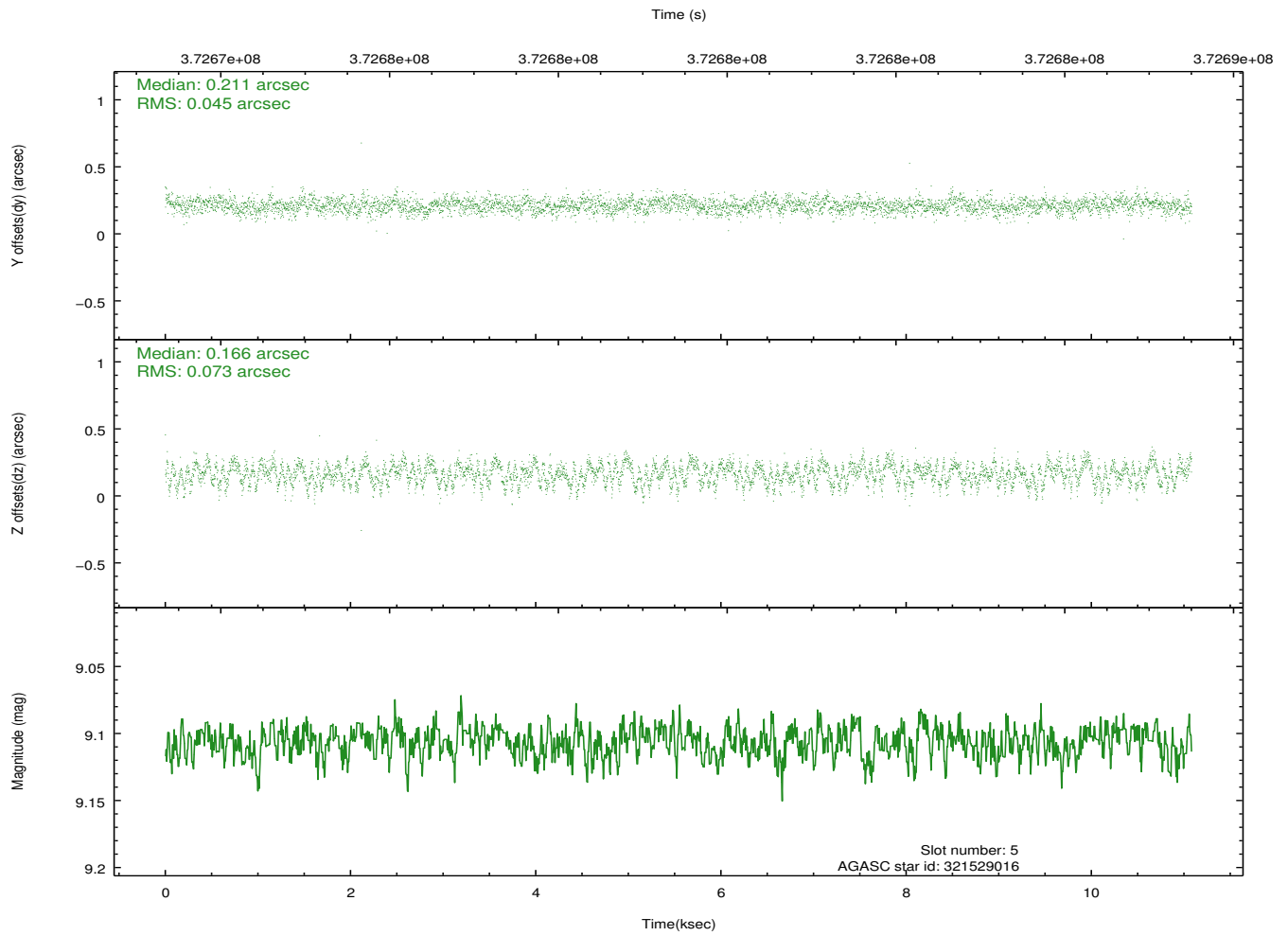
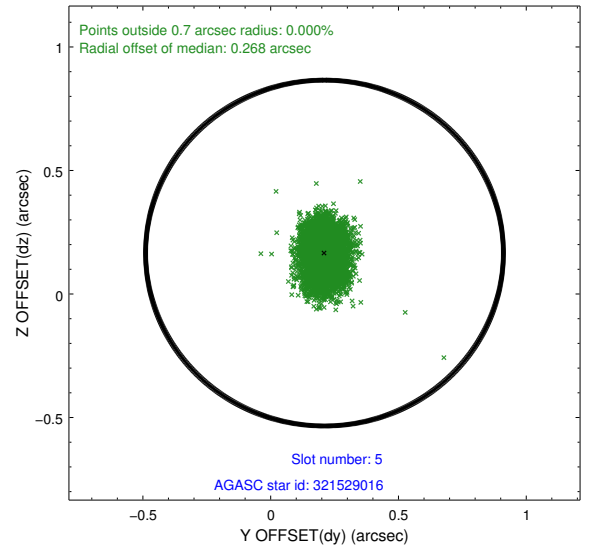
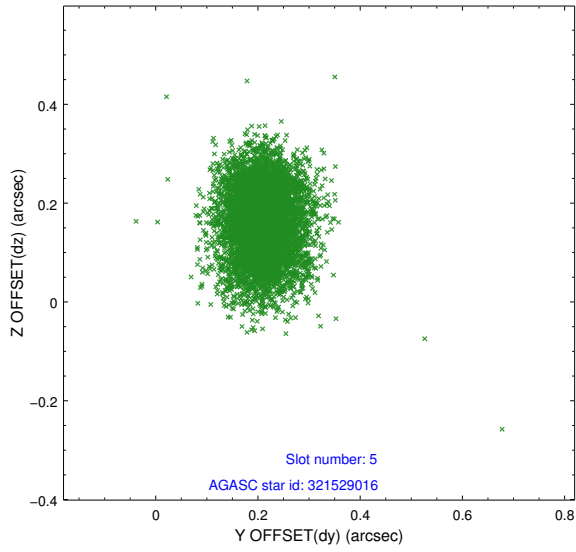
### 2.4.1 Slot 3



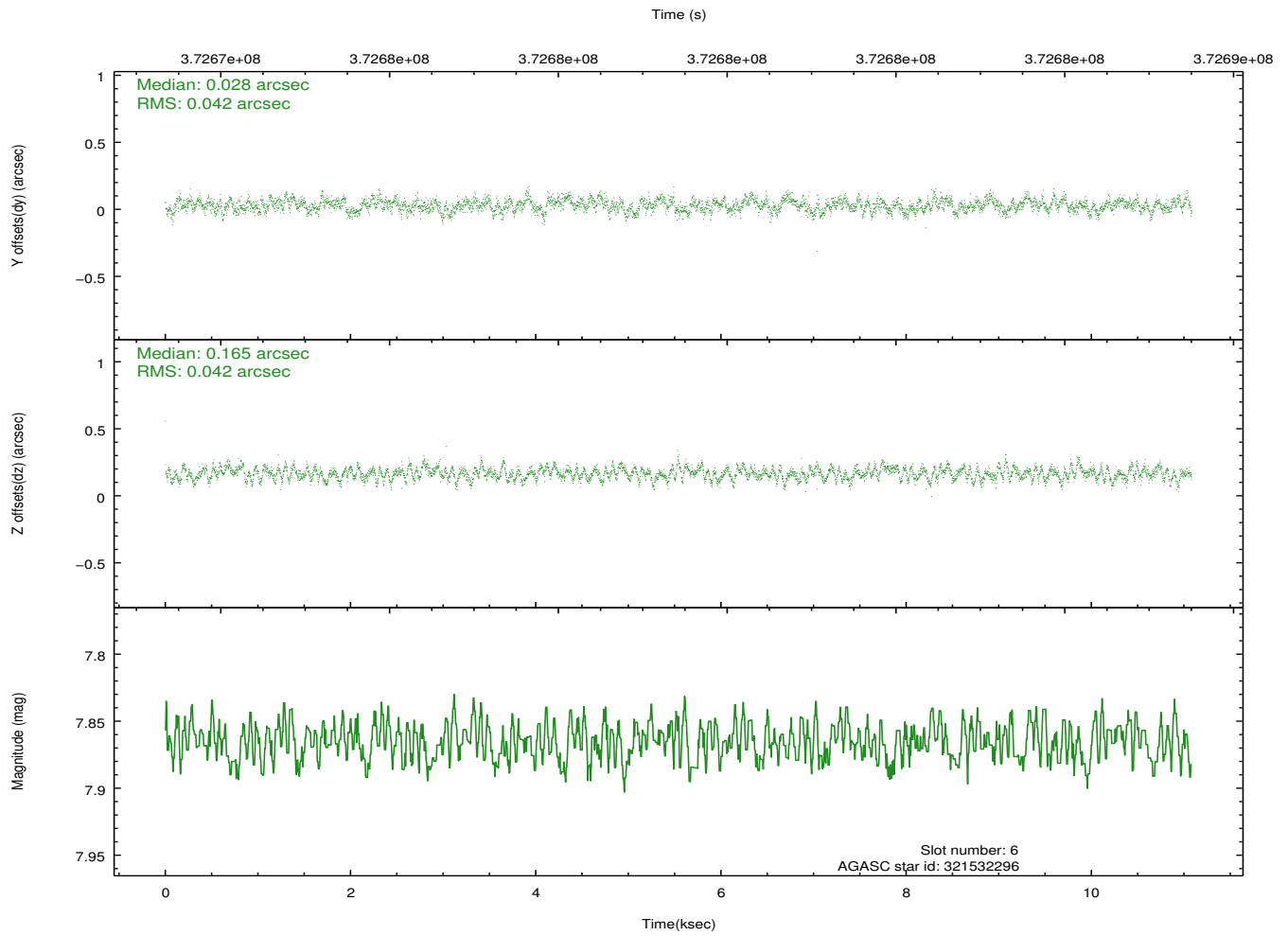
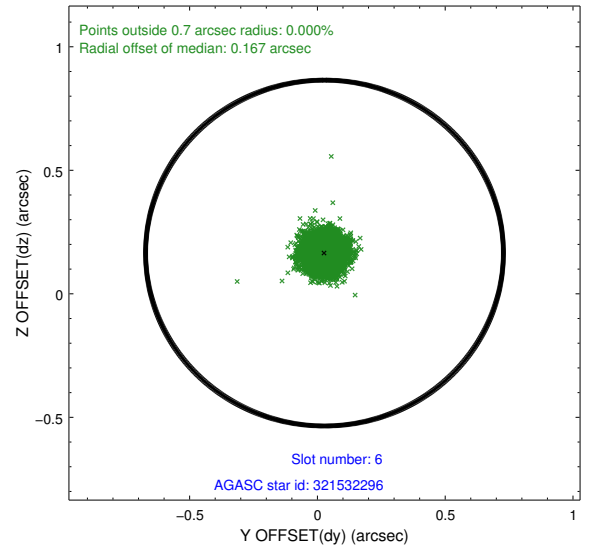
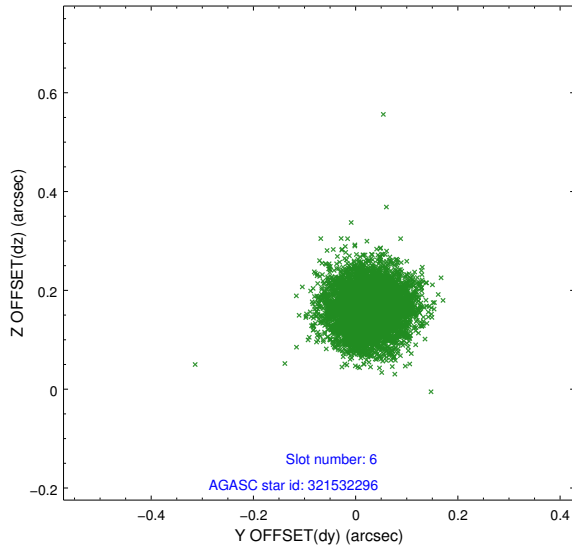
## 2.4.2 Slot 4



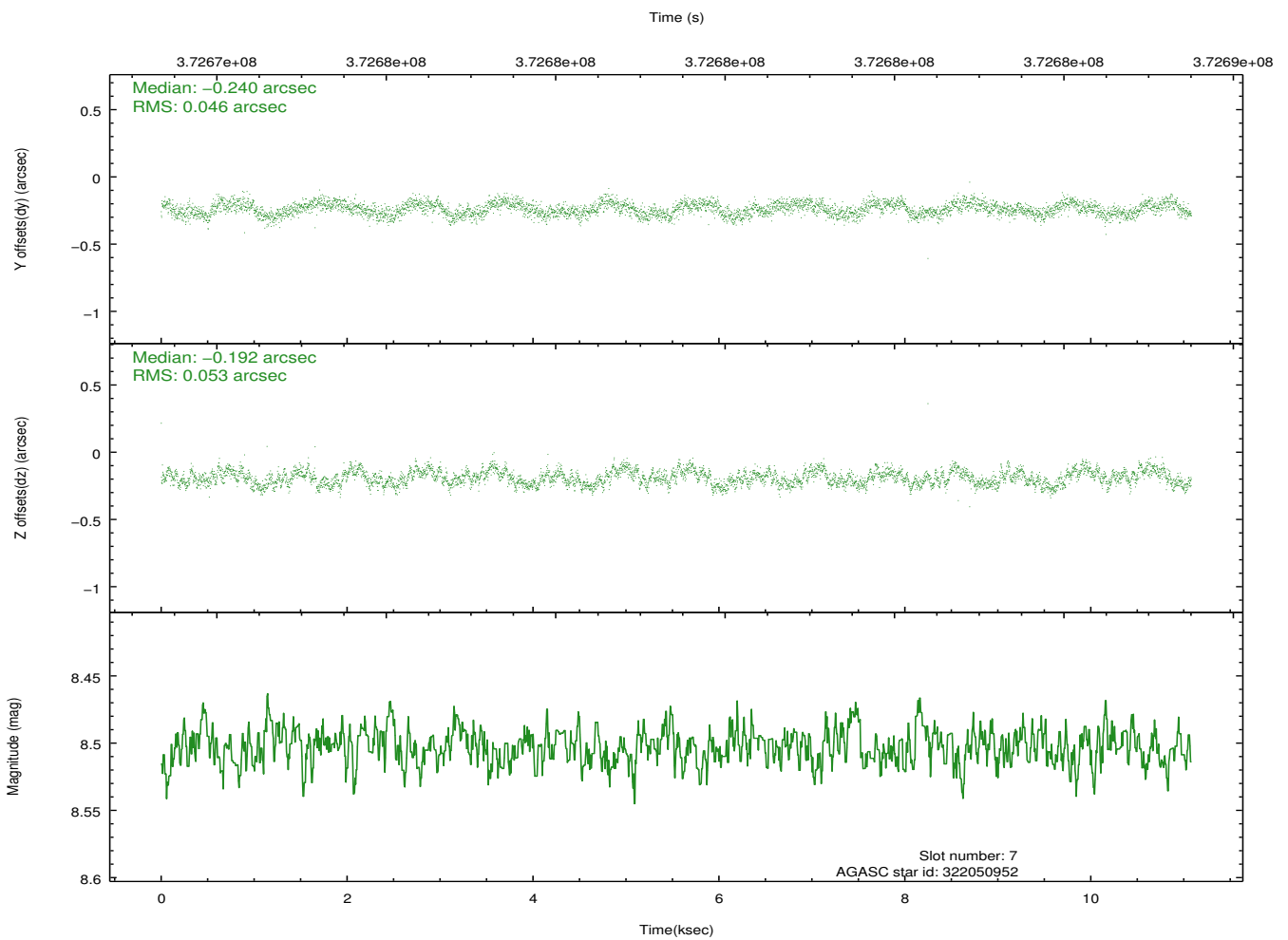
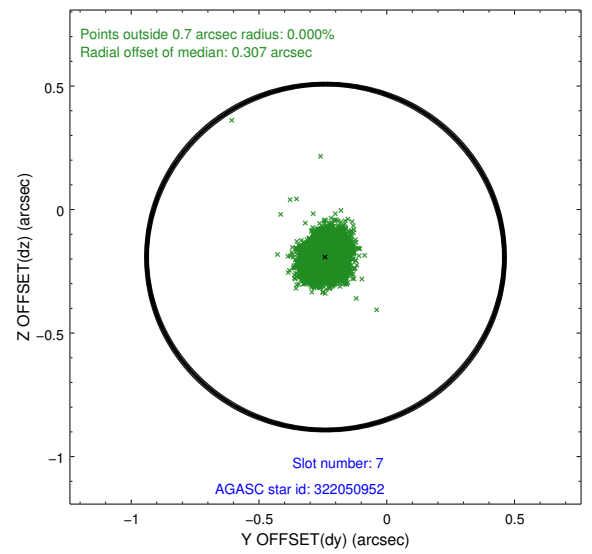
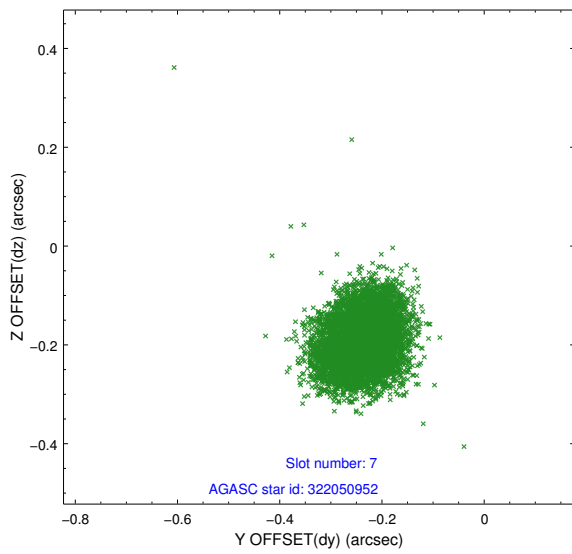
### 2.4.3 Slot 5



### 2.4.4 Slot 6

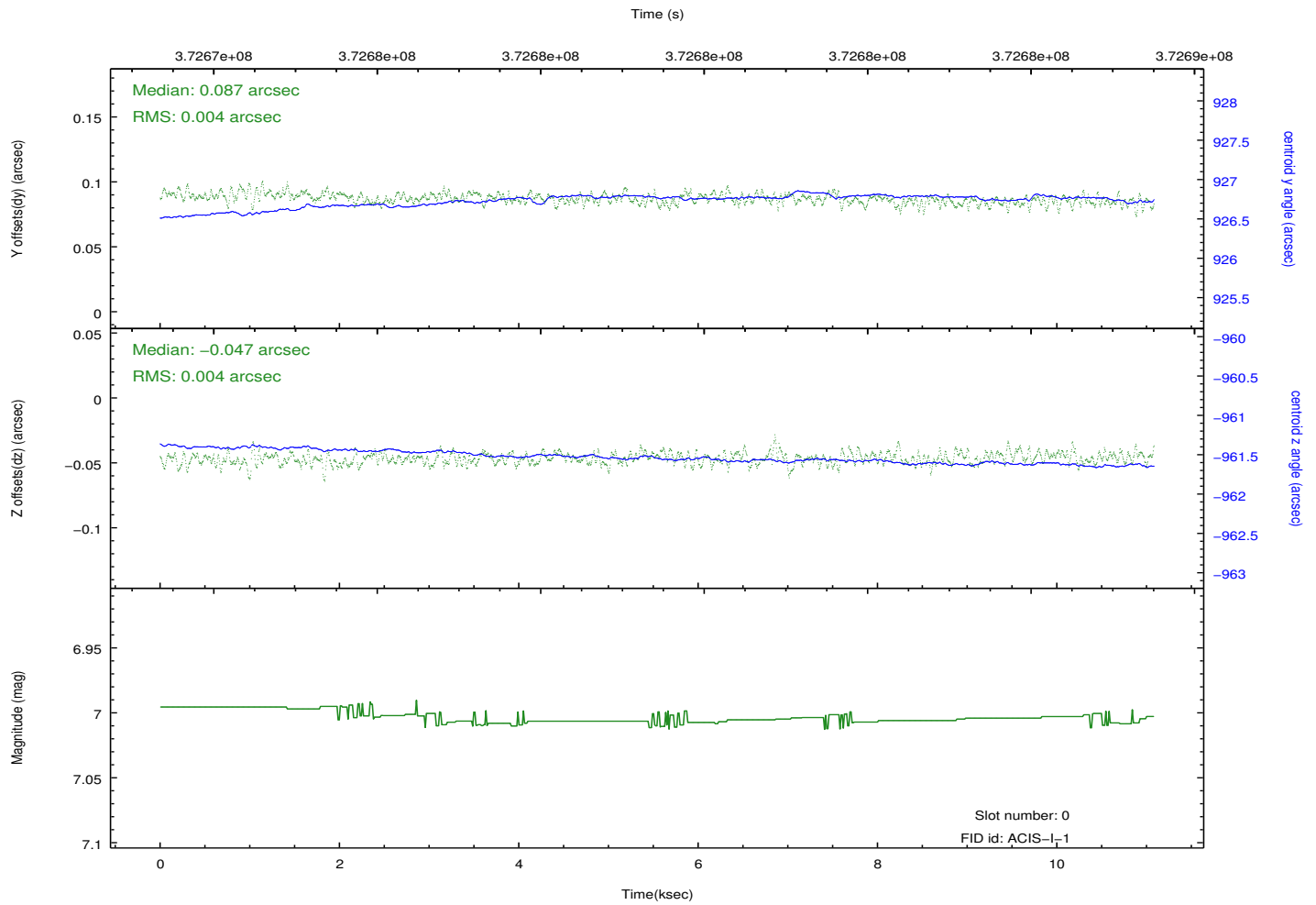
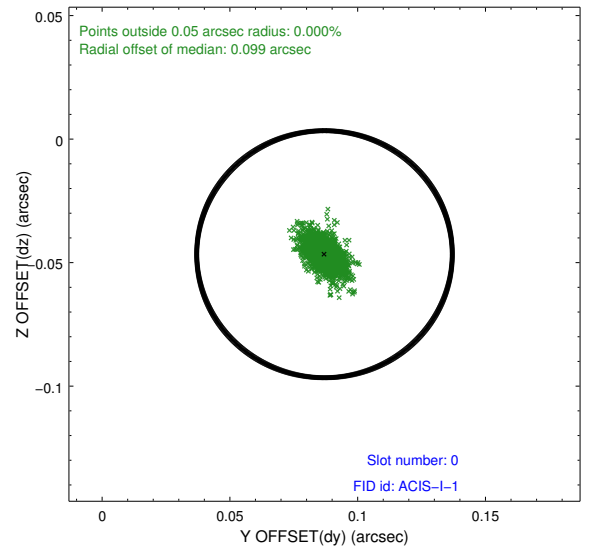
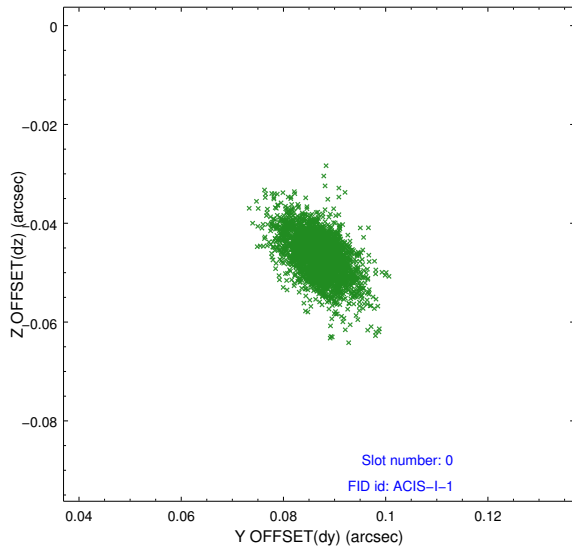


## 2.4.5 Slot 7

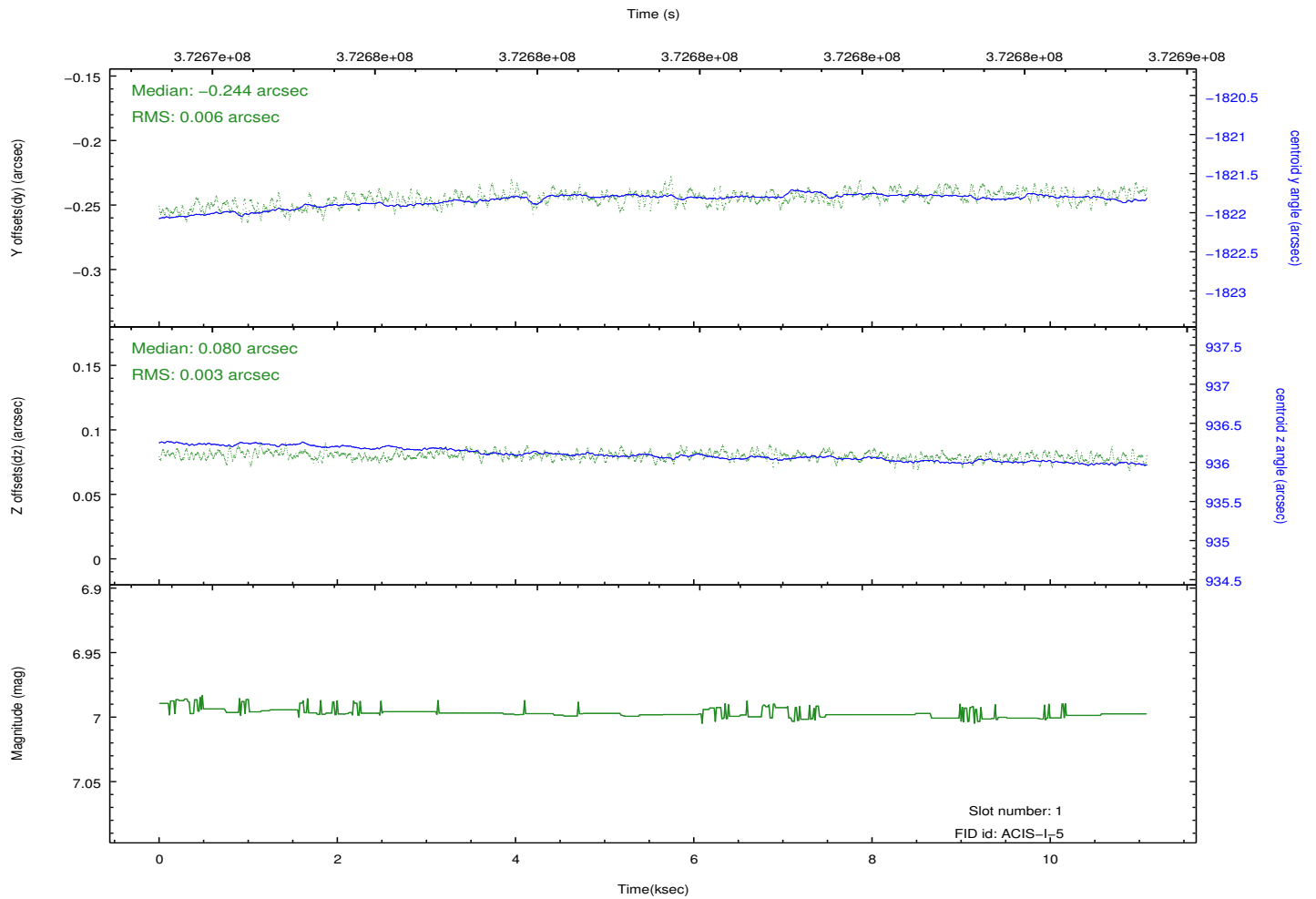
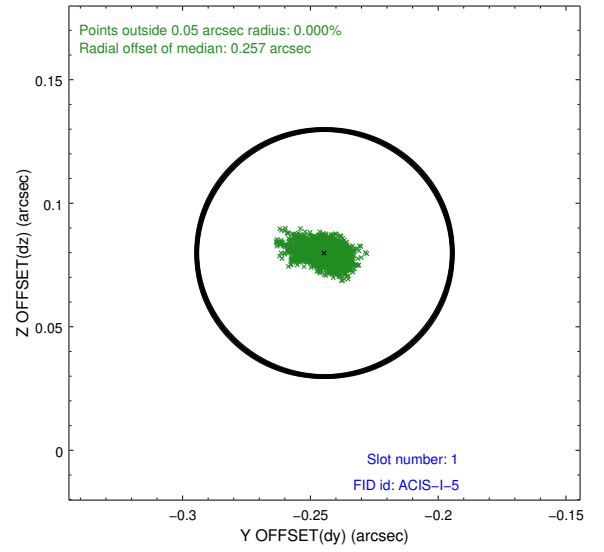
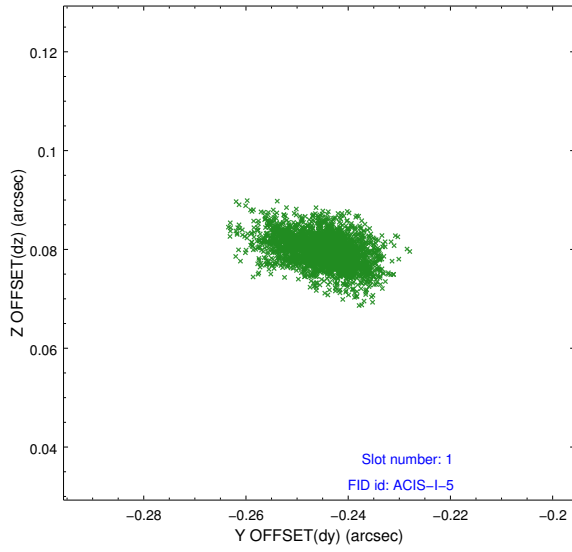


## 2.5 FID Slots

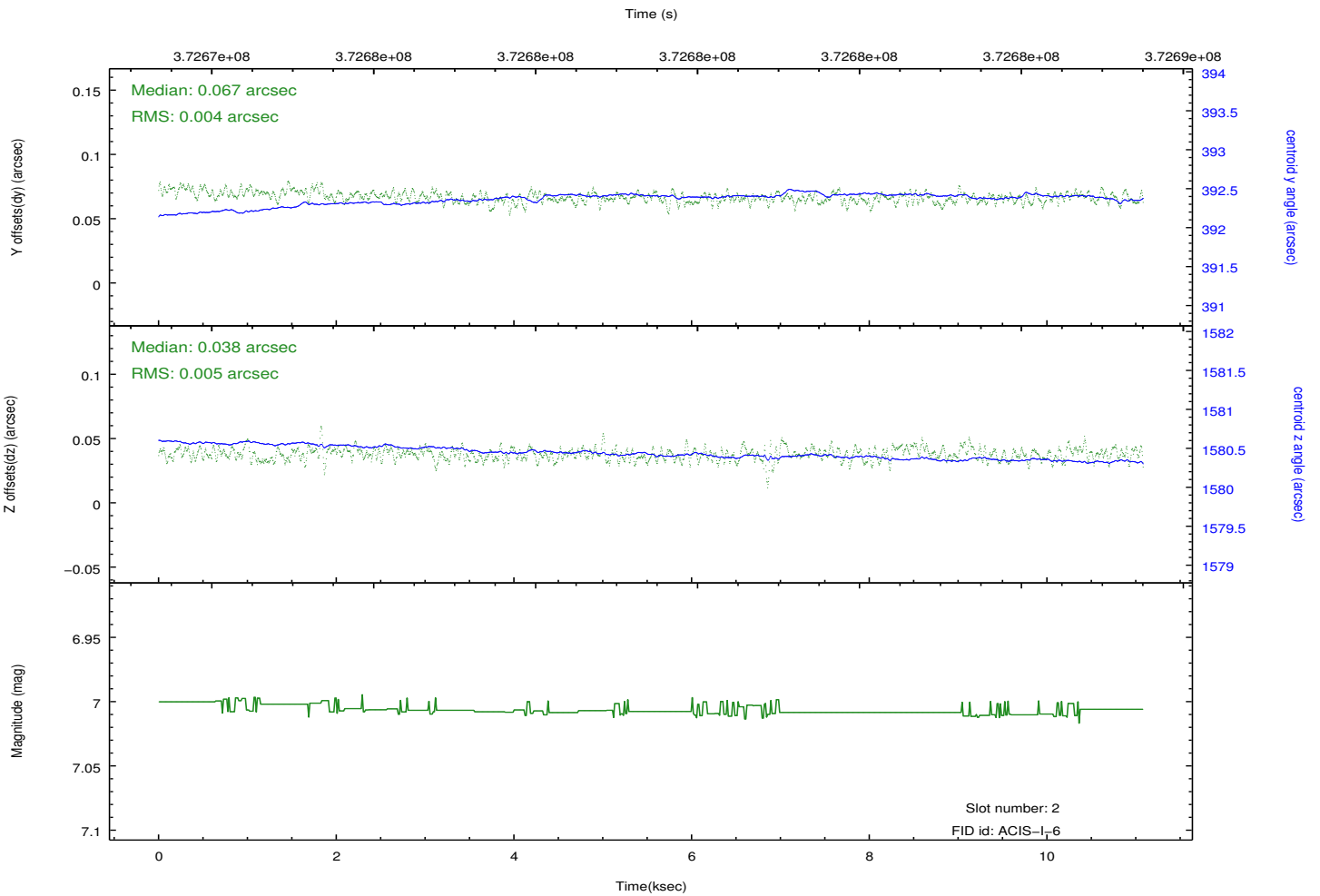
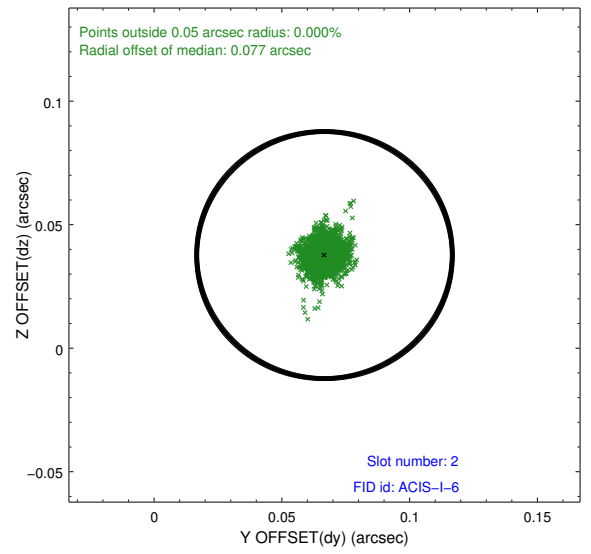
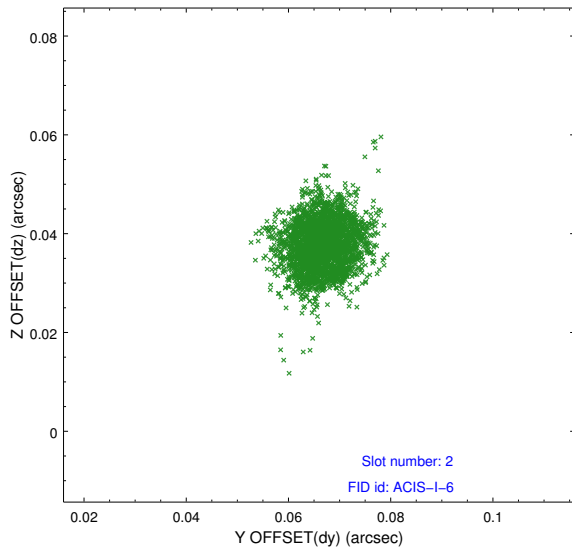
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.04325660336

## A.2 Comments