

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8207 - L2 Version 2  
Chandra X-Ray Center

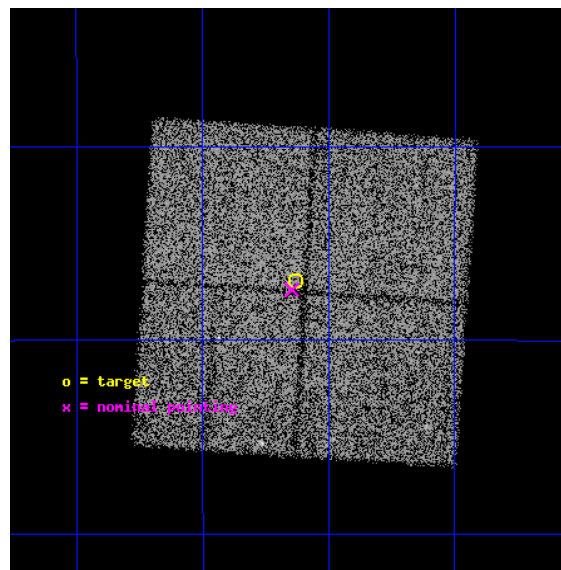
L2 Processing Date : Apr 29 2012

## 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

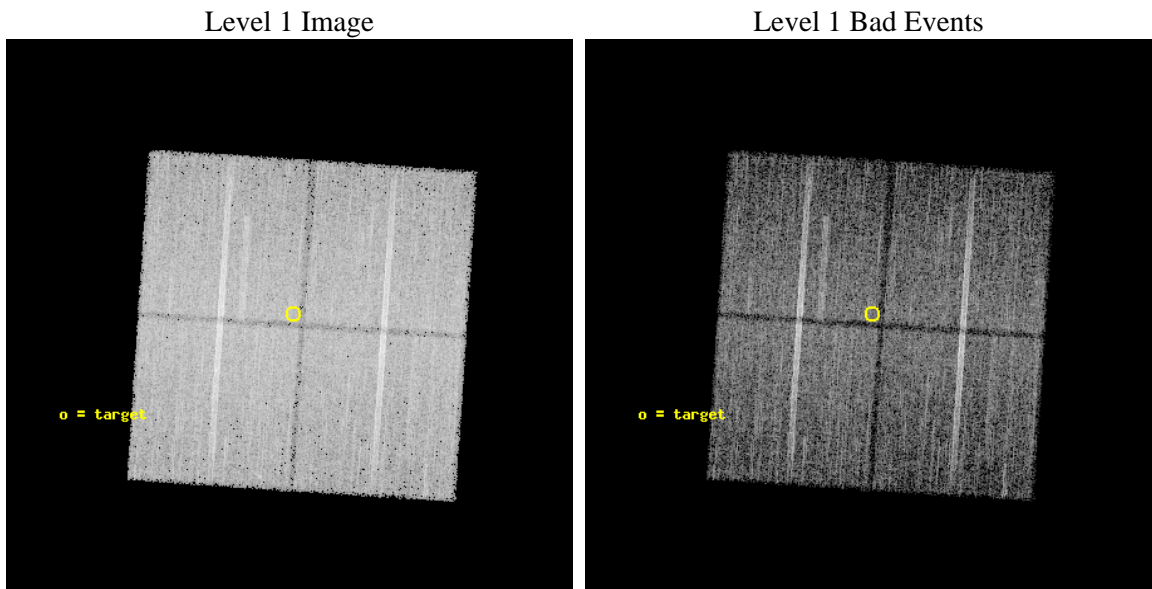
seq_num	600643	Sequence number
obs_id	8207	Observation id
title	Galactic Bulge Latitude Survey-2	Proposal title
observer	Professor Johnathan Grindlay	Principal investigator
object	GBW27	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.908333	Observer's specified target RA [deg]
dec_targ	-28.449028	Observer's specified target Dec [deg]
ra_nom	265.91163616885	Nominal RA [deg]
dec_nom	-28.456580449361	Nominal Dec [deg]
roll_nom	273.81026441248	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14695.955179751	Sum of GTIs [s]
livetime	14503.941706323	Livetime [s]
ontime0	14683.268178463	Sum of GTIs [s]
ontime1	14692.732149363	Sum of GTIs [s]
ontime2	14686.491288602	Sum of GTIs [s]
ontime3	14695.955179751	Sum of GTIs [s]
l2events	69625	Number of level 2 events



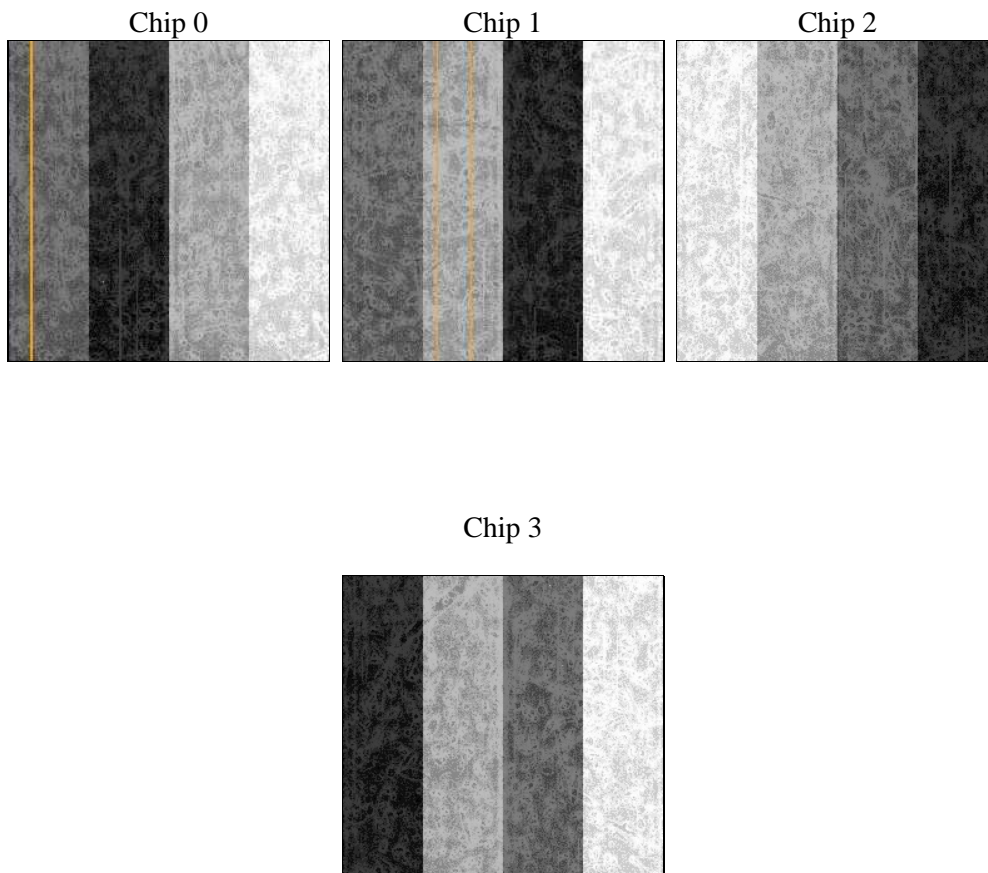
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	14695.955179751	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	14683.268178463	Sum of GTIs [s]
date	2012-04-29T02:13:44	Date and time of file creation	ontime1	14692.732149363	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	14686.491288602	Sum of GTIs [s]
			ontime3	14695.955179751	Sum of GTIs [s]
			l1events	546202	Number of level 1 events

### 2.1.4 Events

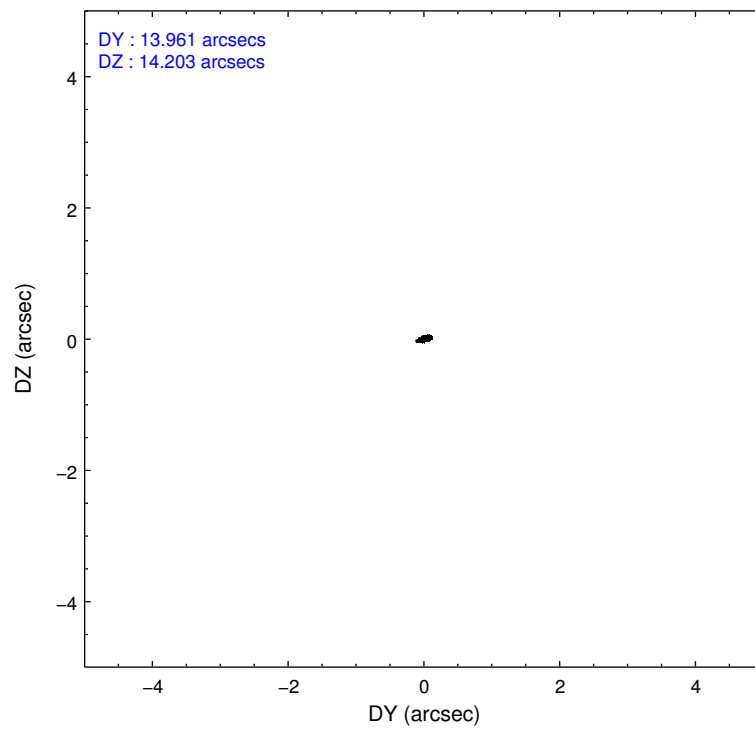
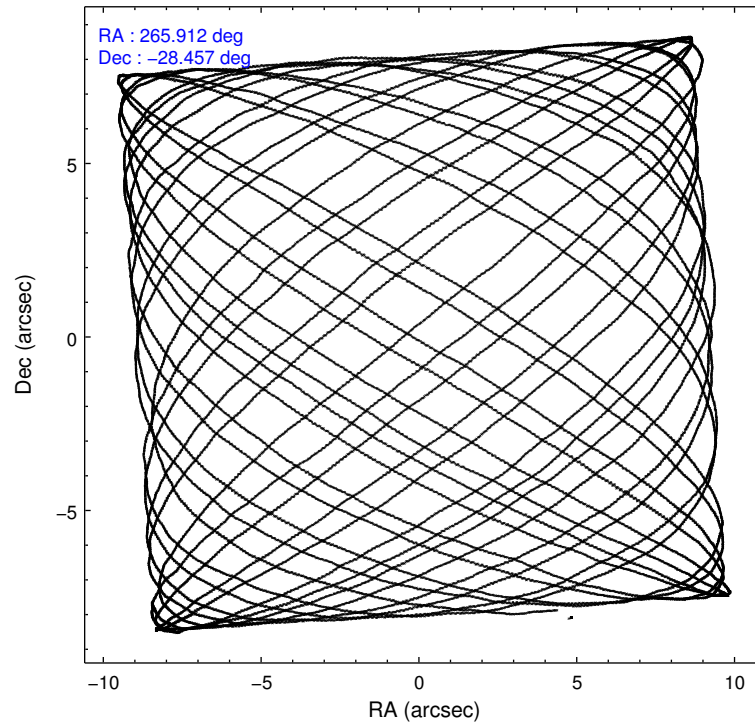
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	129789	132838	144233	139342
rejected events	110414	112280	124077	119283
rejected %	85%	84%	86%	85%

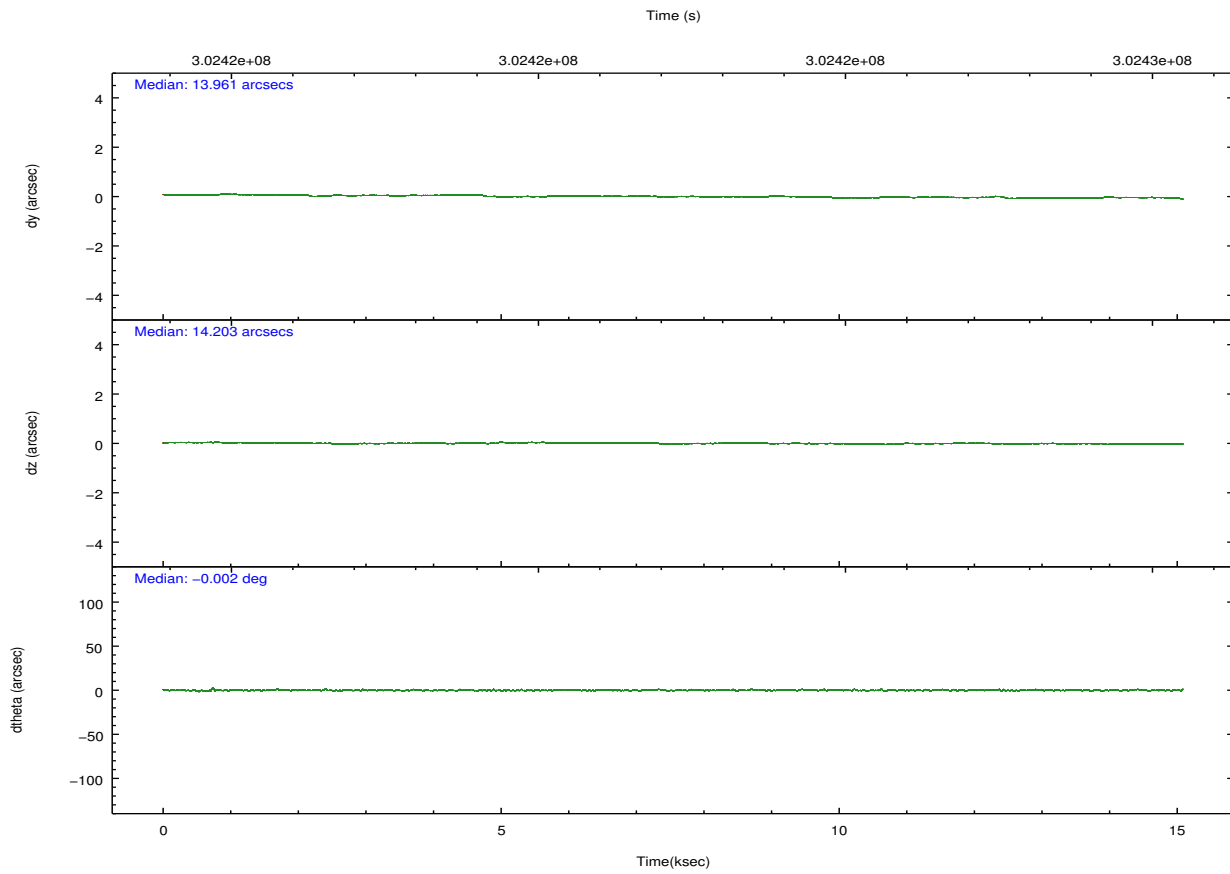
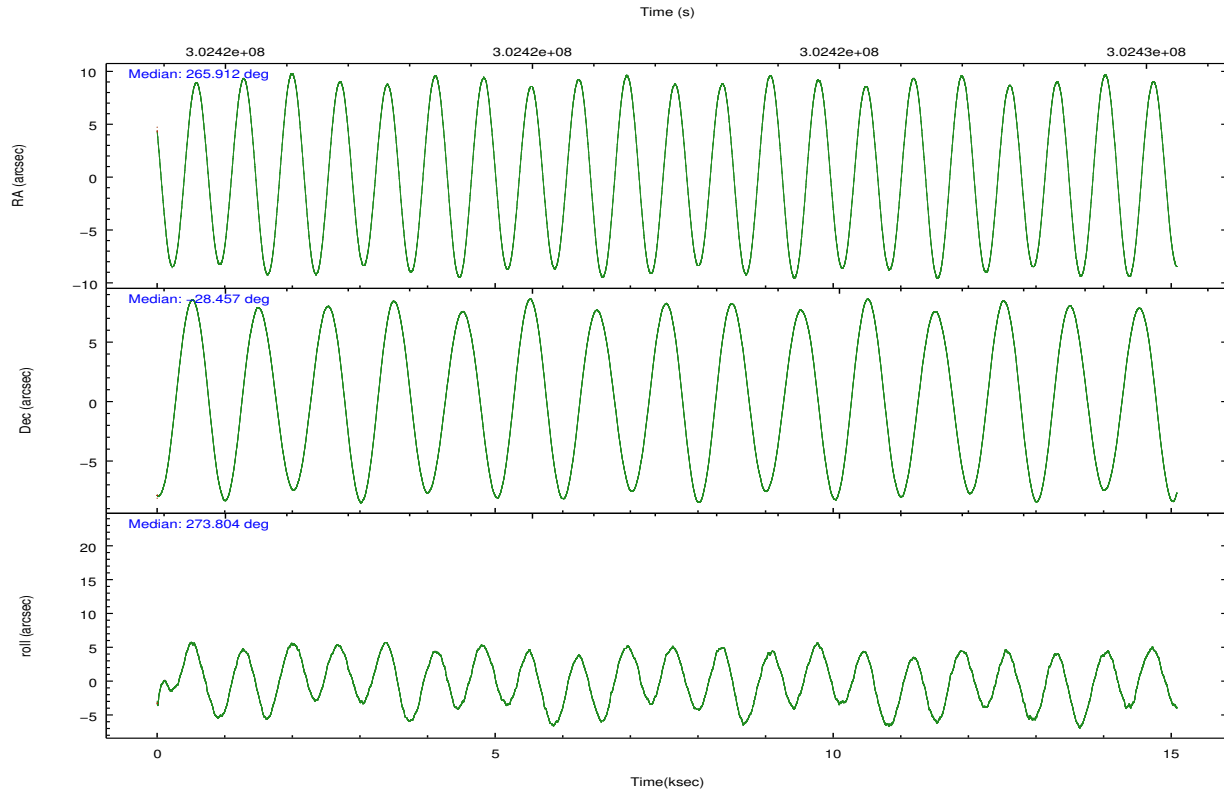
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9158	8908	10286	9772
	7%	6%	7%	7%
grade 1 events	80	85	122	98
	0%	0%	0%	0%
grade 2 events	3987	4505	3794	3722
	3%	3%	2%	2%
grade 3 events	1639	1725	1590	1737
	1%	1%	1%	1%
grade 4 events	1562	1771	1654	1753
	1%	1%	1%	1%
grade 5 events	5585	6140	5405	6491
	4%	4%	3%	4%
grade 6 events	3033	3653	2836	3077
	2%	2%	1%	2%
grade 7 events	104745	106051	118546	112692
	80%	79%	82%	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	265.894143	265.9116361688469	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.433779	-28.45658044936067	Alternating exposures requested	N	N
[deg] Pointing Roll	273.593250	273.8102644124779	[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)	302414840.184000	302414464.5955			
Observation start date	2007-08-02T04:06:15	2007-08-02T04:01:04			
[s] Observation end time (MET)	302429740.184000	302429874.44624			
Observation end date	2007-08-02T08:14:35	2007-08-02T08:17:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



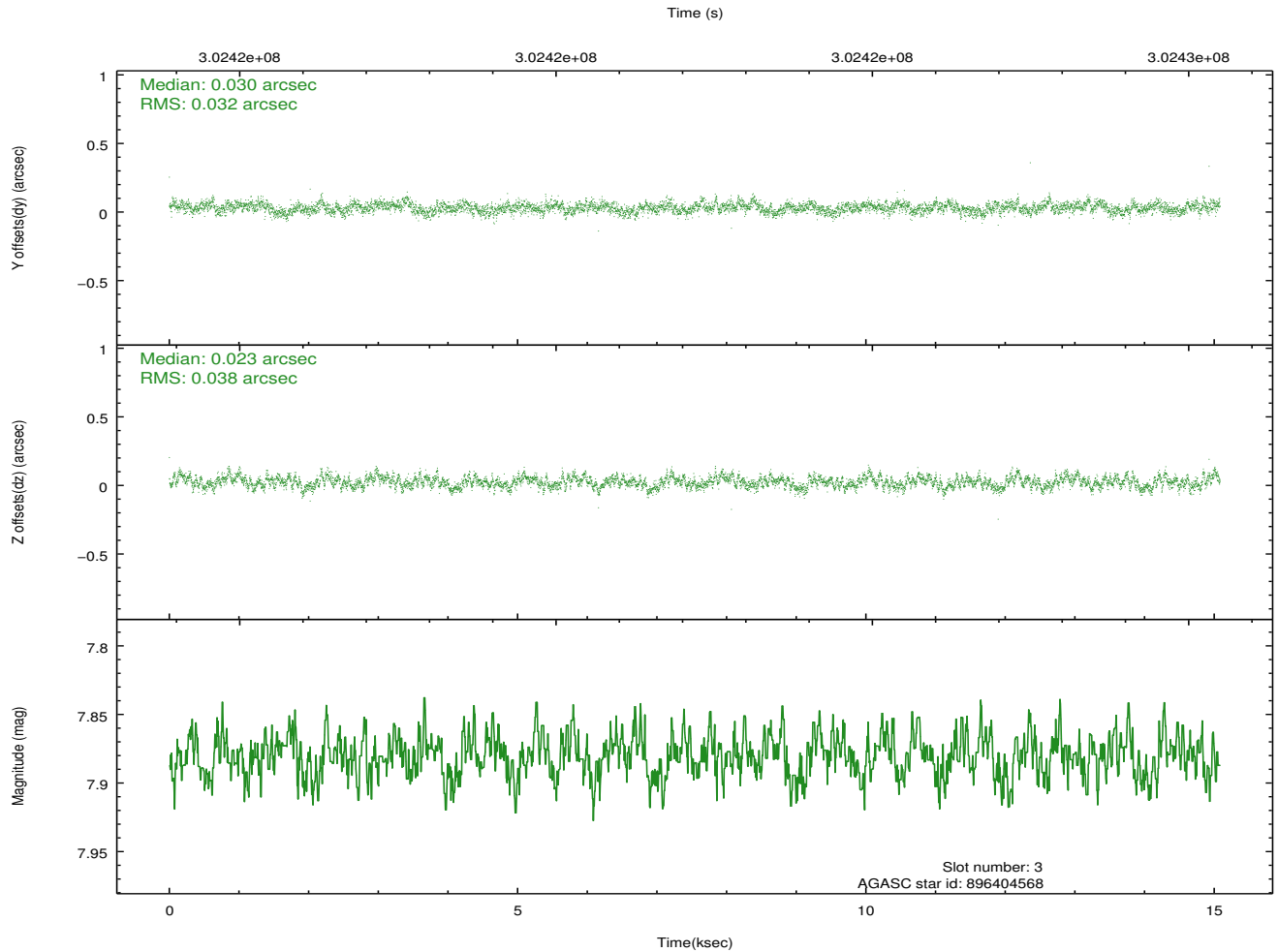
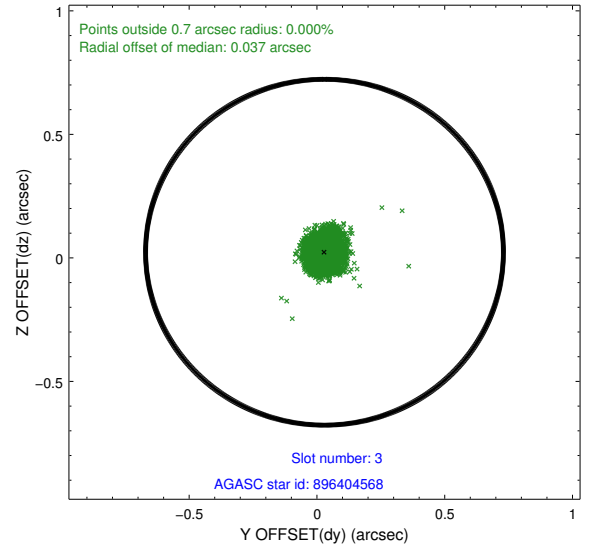
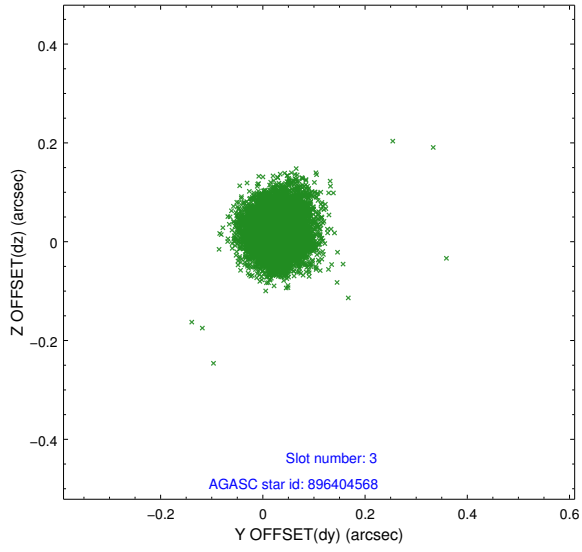


### Slot Statistics

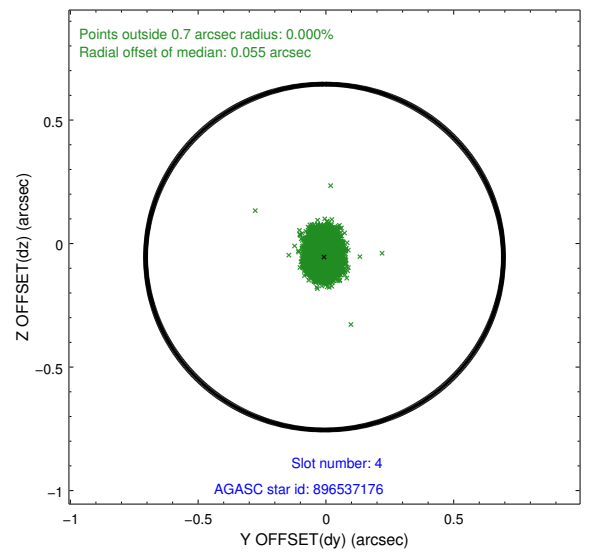
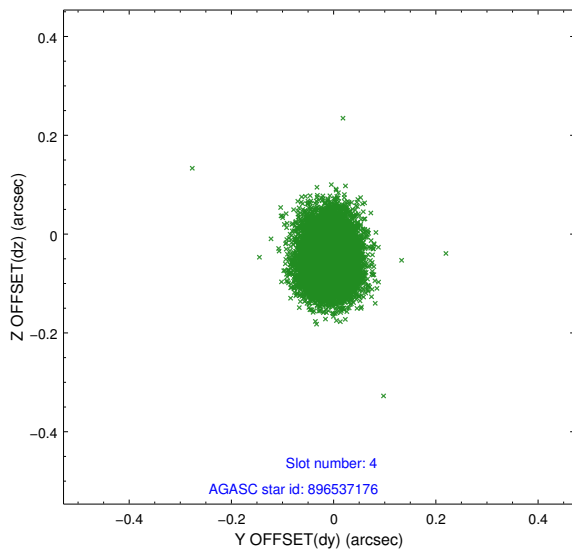
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	3680	0.037	0.000	0.006	0.011	0.000000	0.000000	925.57	-837.77
1	FID	ACIS-I-5	7.22	3680	-0.234	0.037	0.006	0.010	0.000000	0.000000	-1822.66	1059.58
2	FID	ACIS-I-6	7.24	3680	0.106	0.033	0.007	0.012	0.000000	0.000000	390.83	1704.44
3	GUIDE	896404568	7.88	7357	0.030	0.023	0.053	0.084	265.687293	-28.431080	-49.83	-652.86
4	GUIDE	896537176	8.02	7358	-0.006	-0.055	0.059	0.095	266.498272	-28.678259	1002.85	1848.94
5	GUIDE	896538696	6.79	7358	-0.183	-0.014	0.046	0.074	266.298470	-28.325572	-306.27	1303.37
6	GUIDE	895879608	8.95	7356	-0.046	0.132	0.083	0.137	265.708239	-27.843915	-2155.77	-457.38
7	GUIDE	896404784	9.32	7349	0.208	-0.091	0.123	0.199	265.491289	-29.092670	2290.67	-1413.69

## 2.4 Star Slots

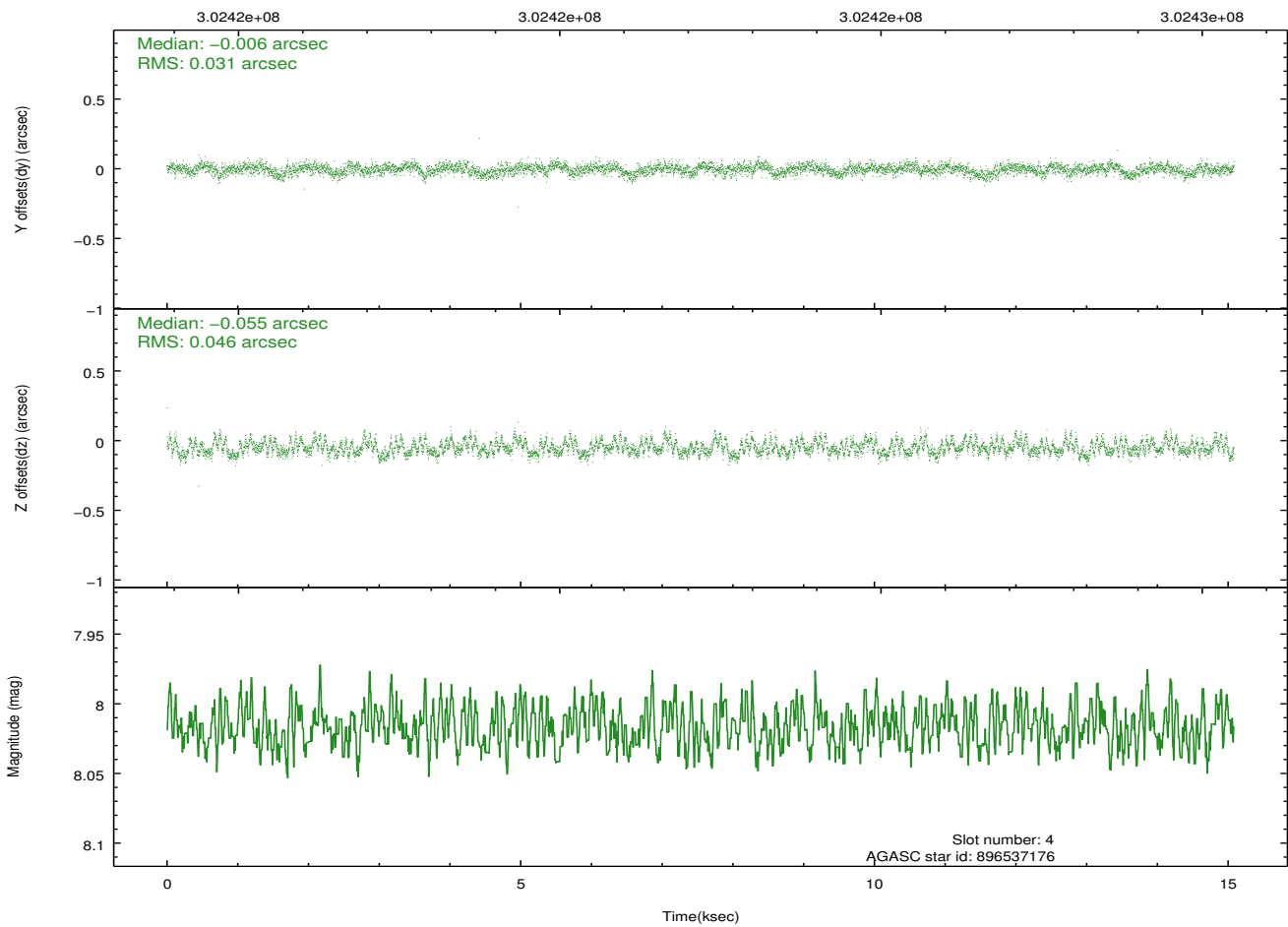
### 2.4.1 Slot 3



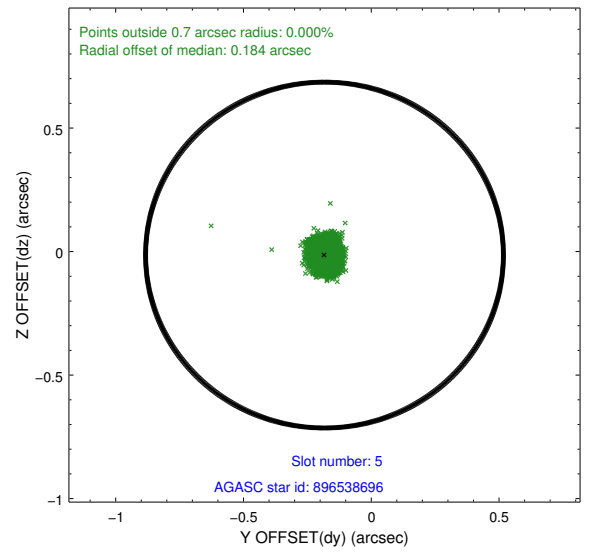
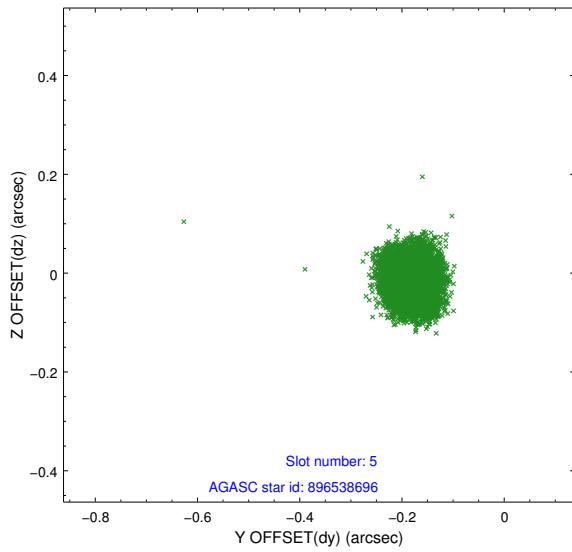
## 2.4.2 Slot 4



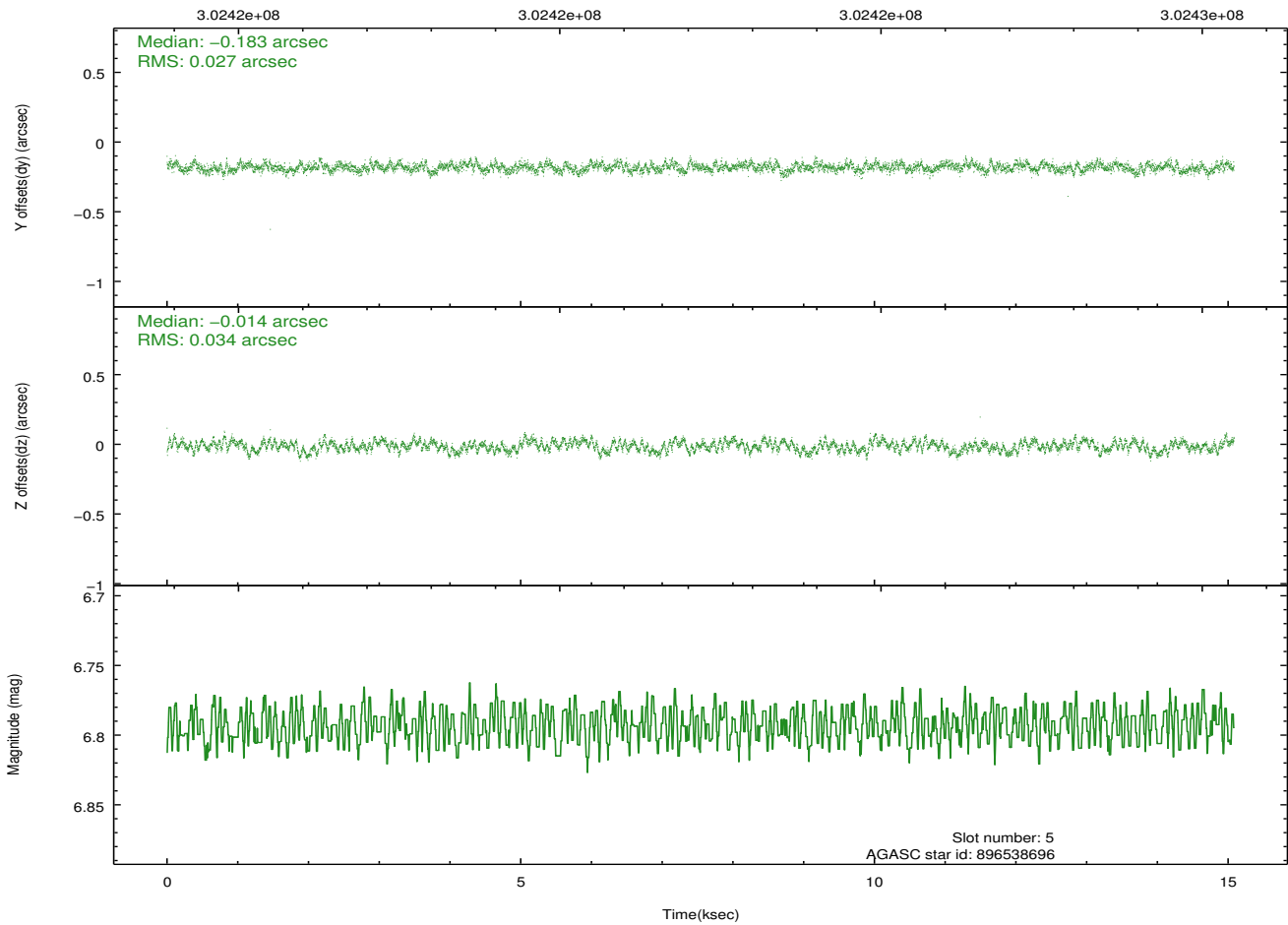
Time (s)



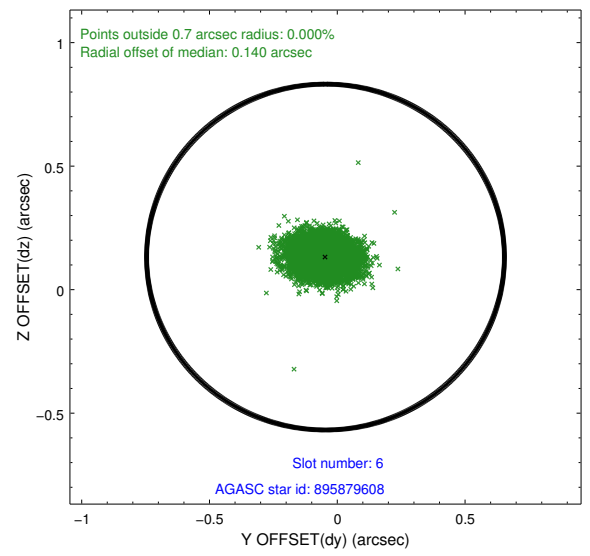
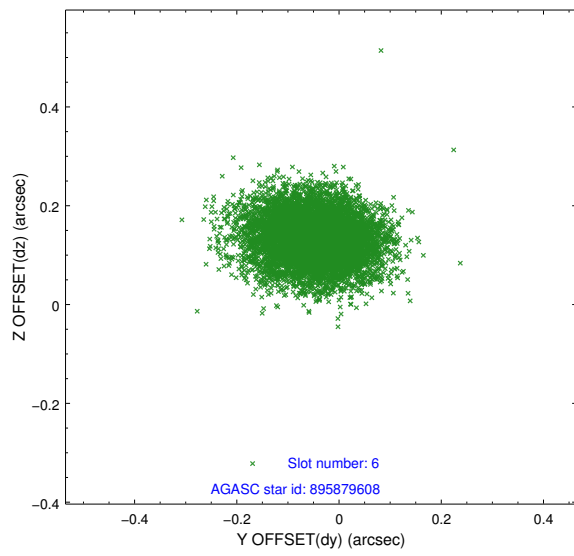
### 2.4.3 Slot 5



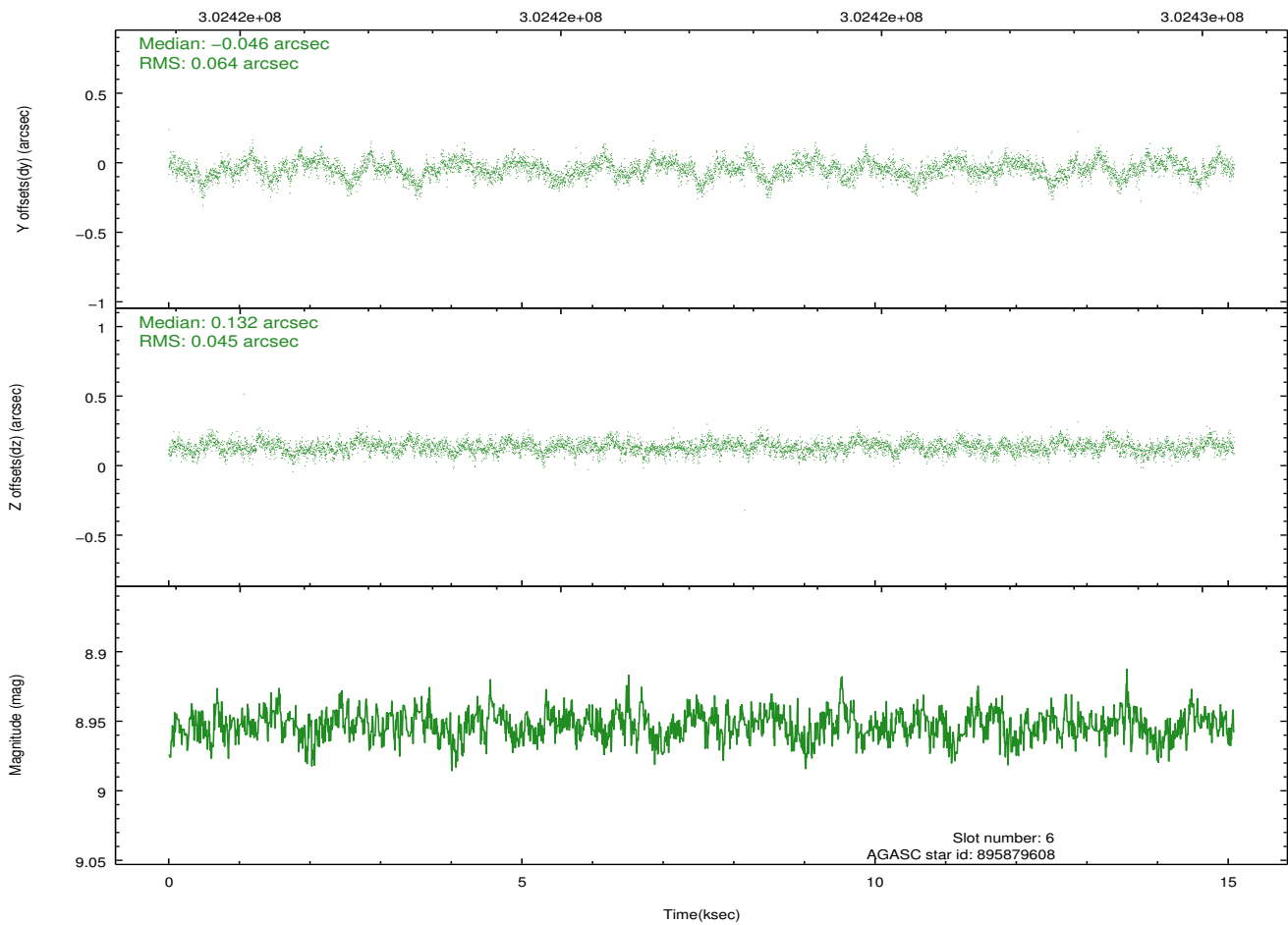
Time (s)



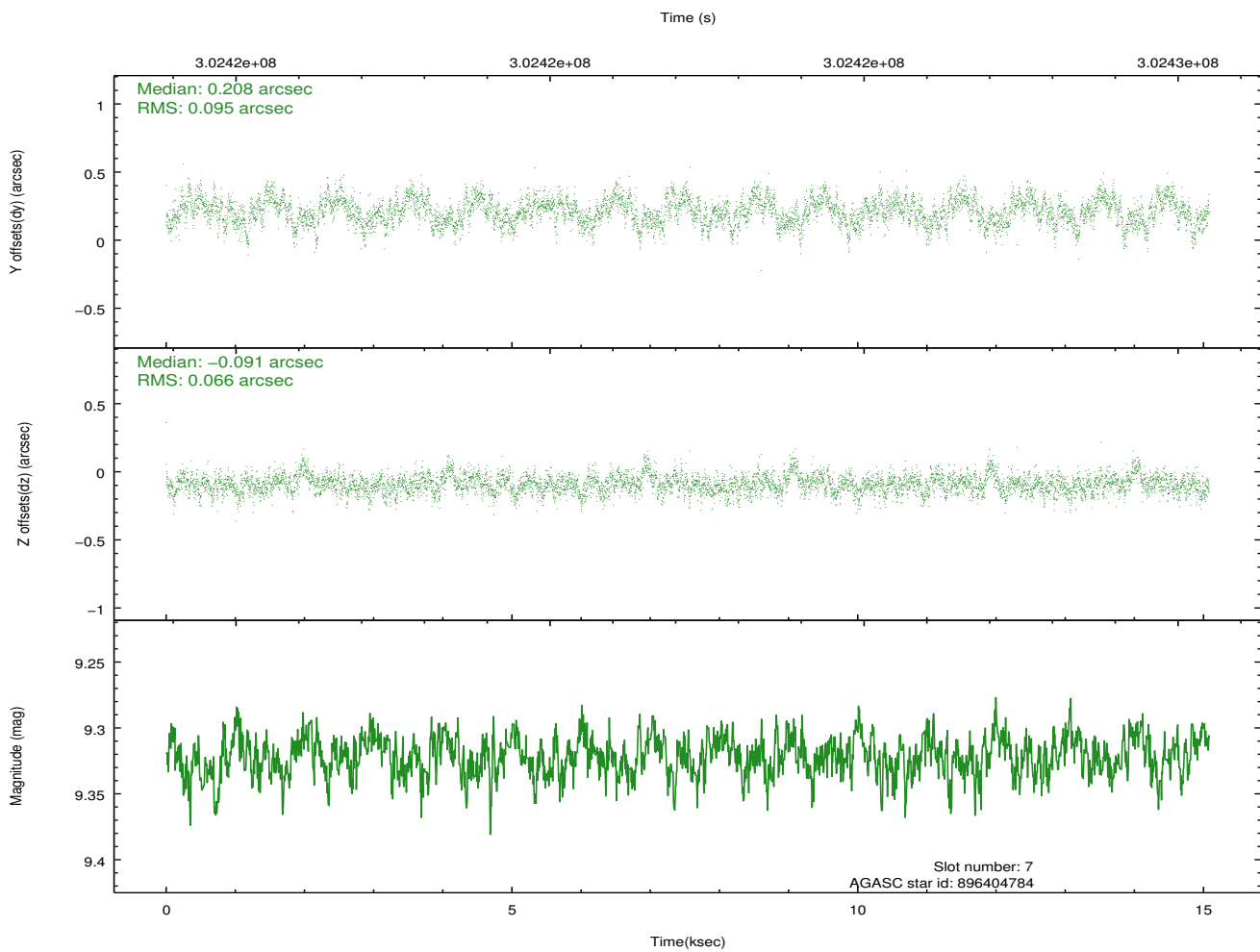
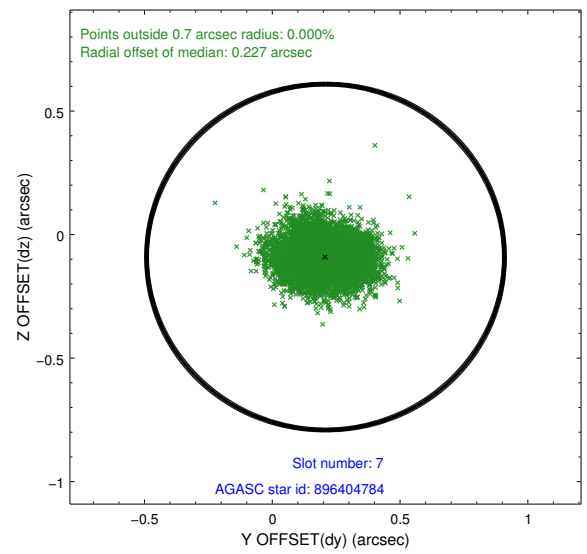
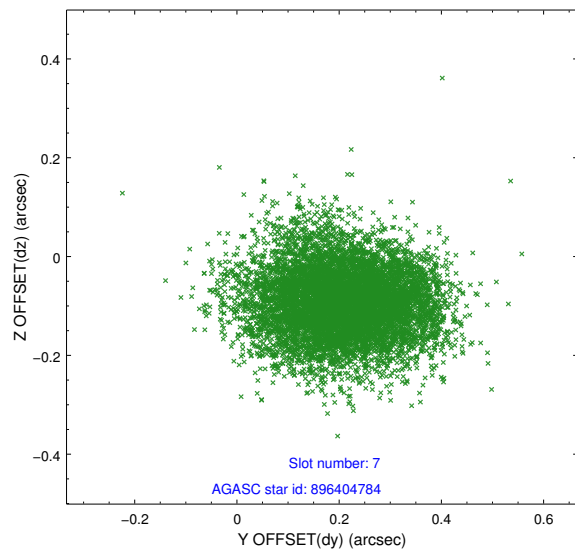
## 2.4.4 Slot 6



Time (s)

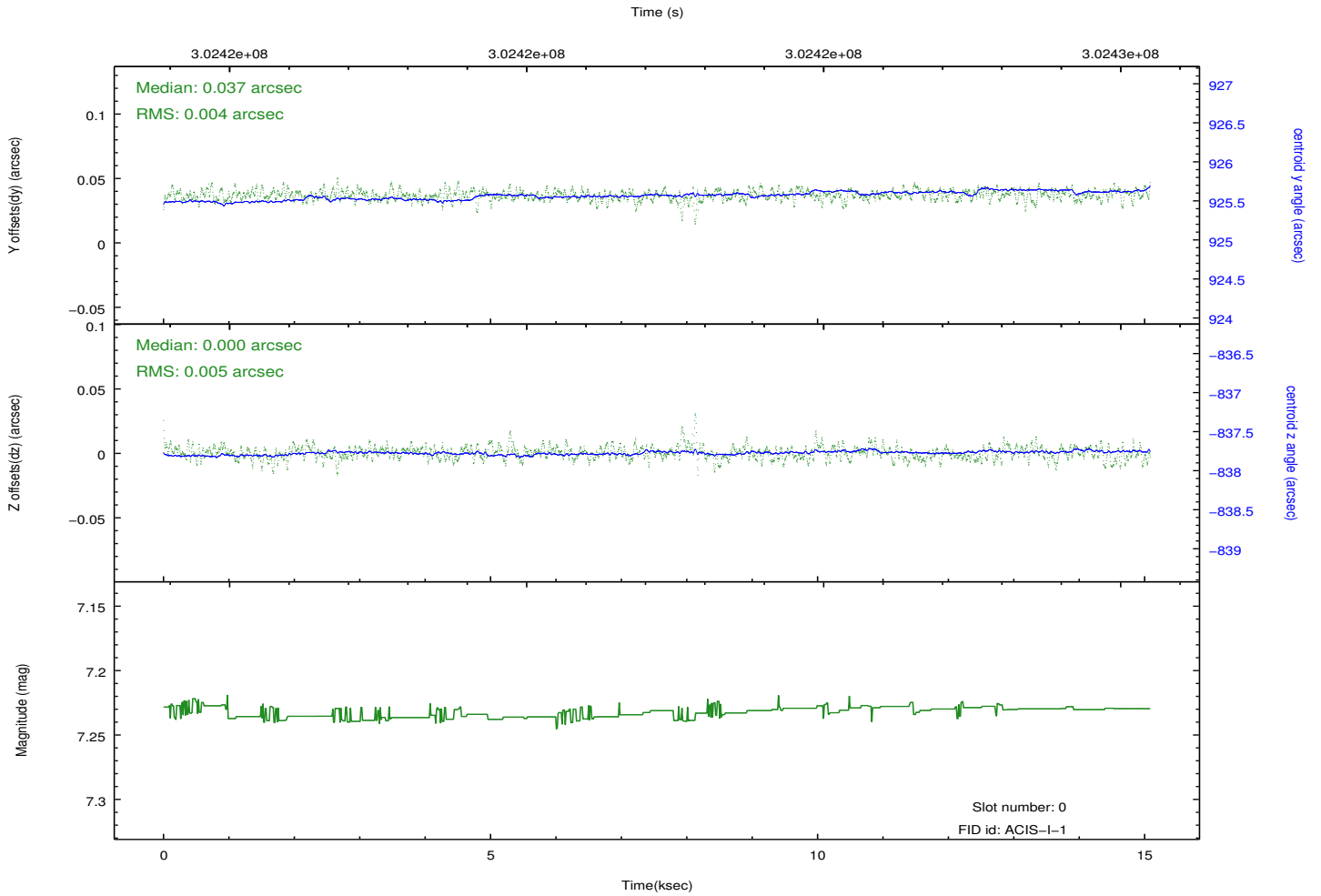
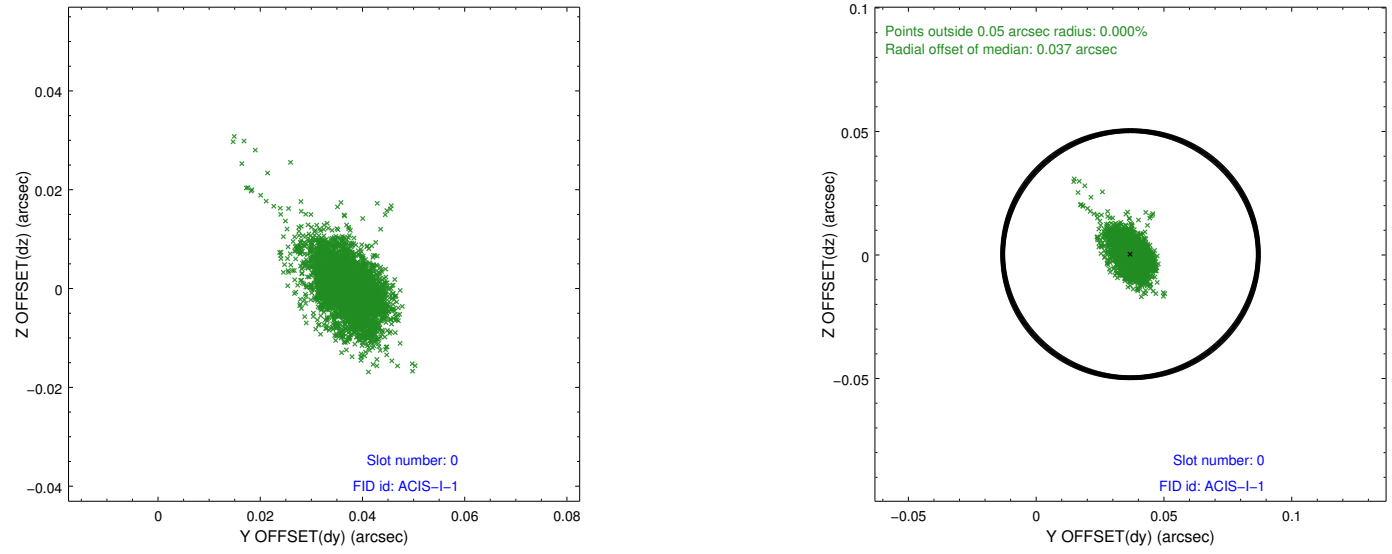


## 2.4.5 Slot 7

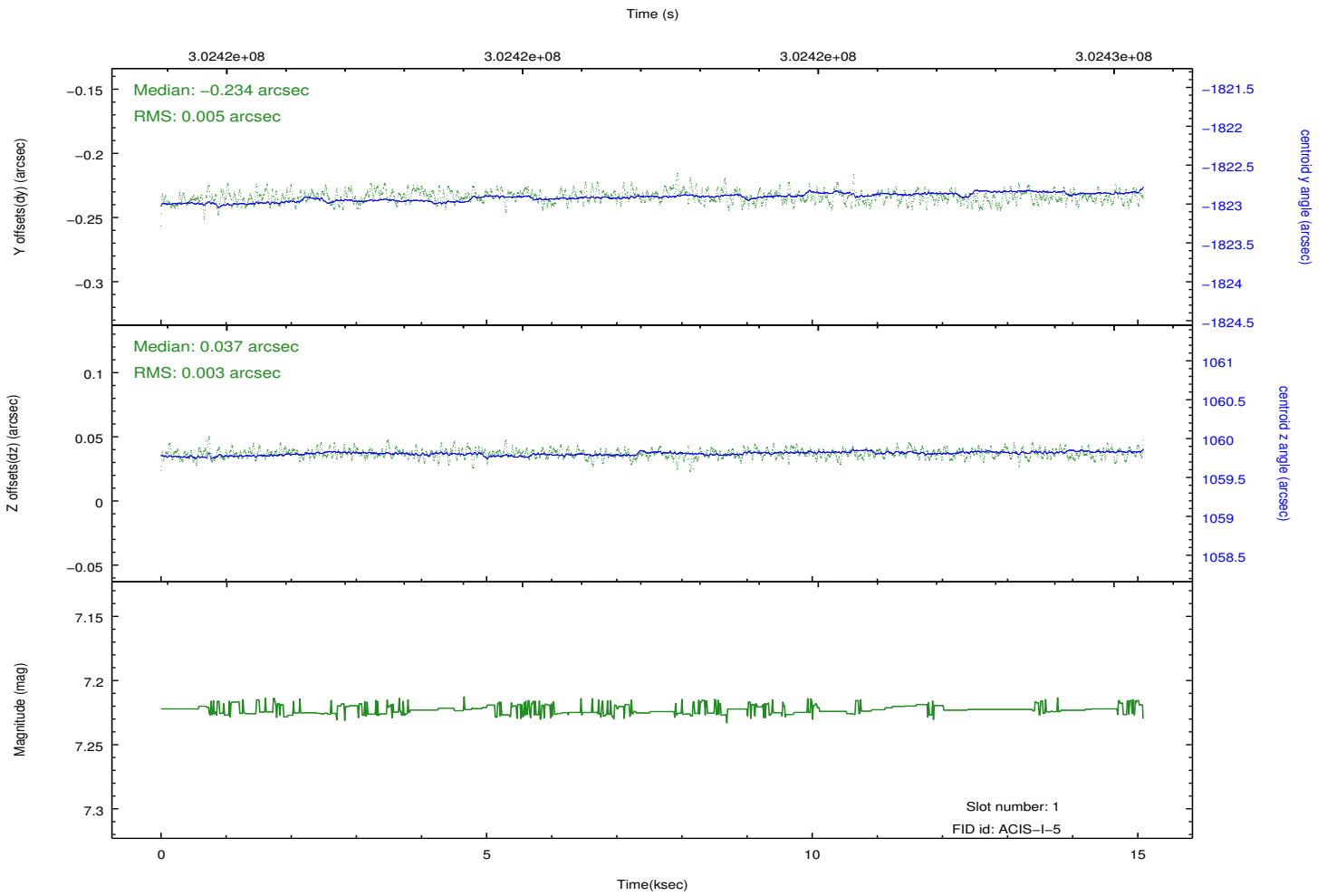
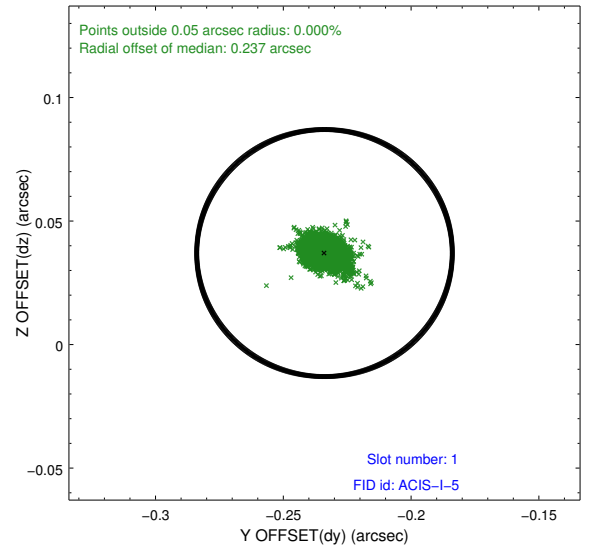
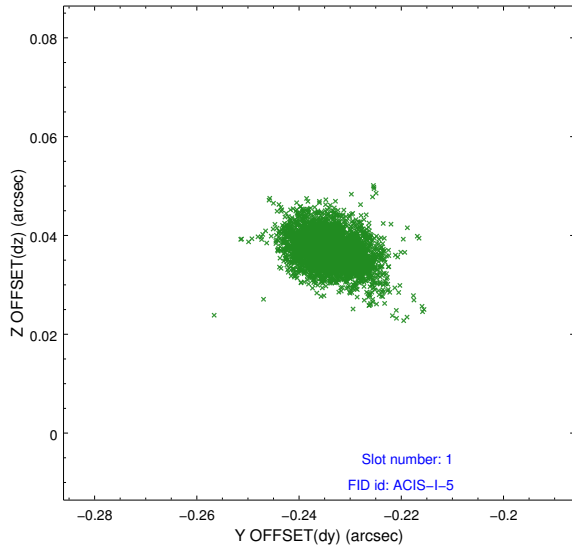


## 2.5 FID Slots

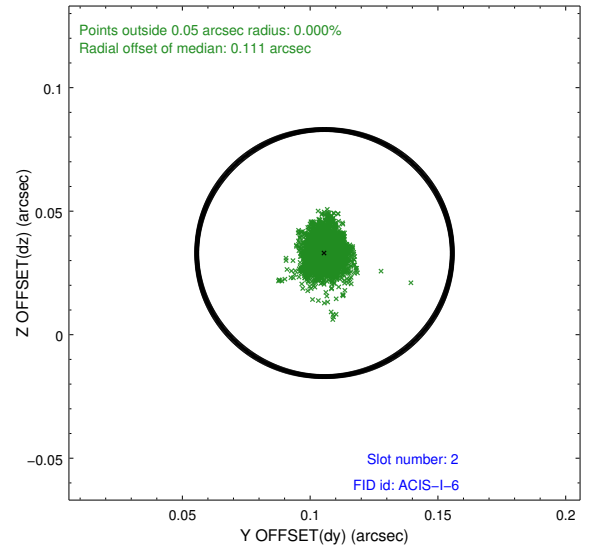
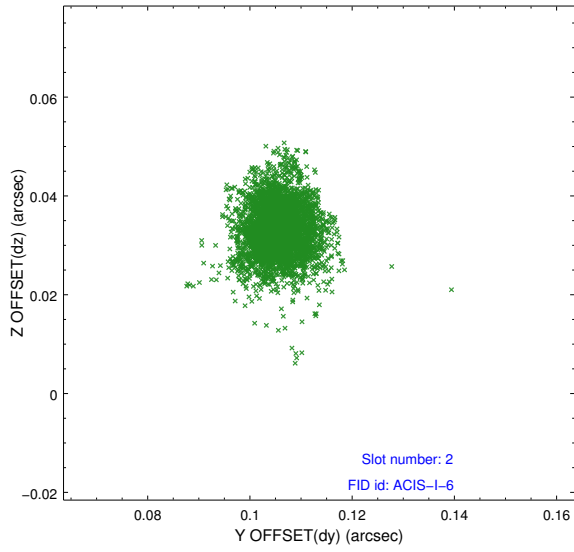
### 2.5.1 Slot 0



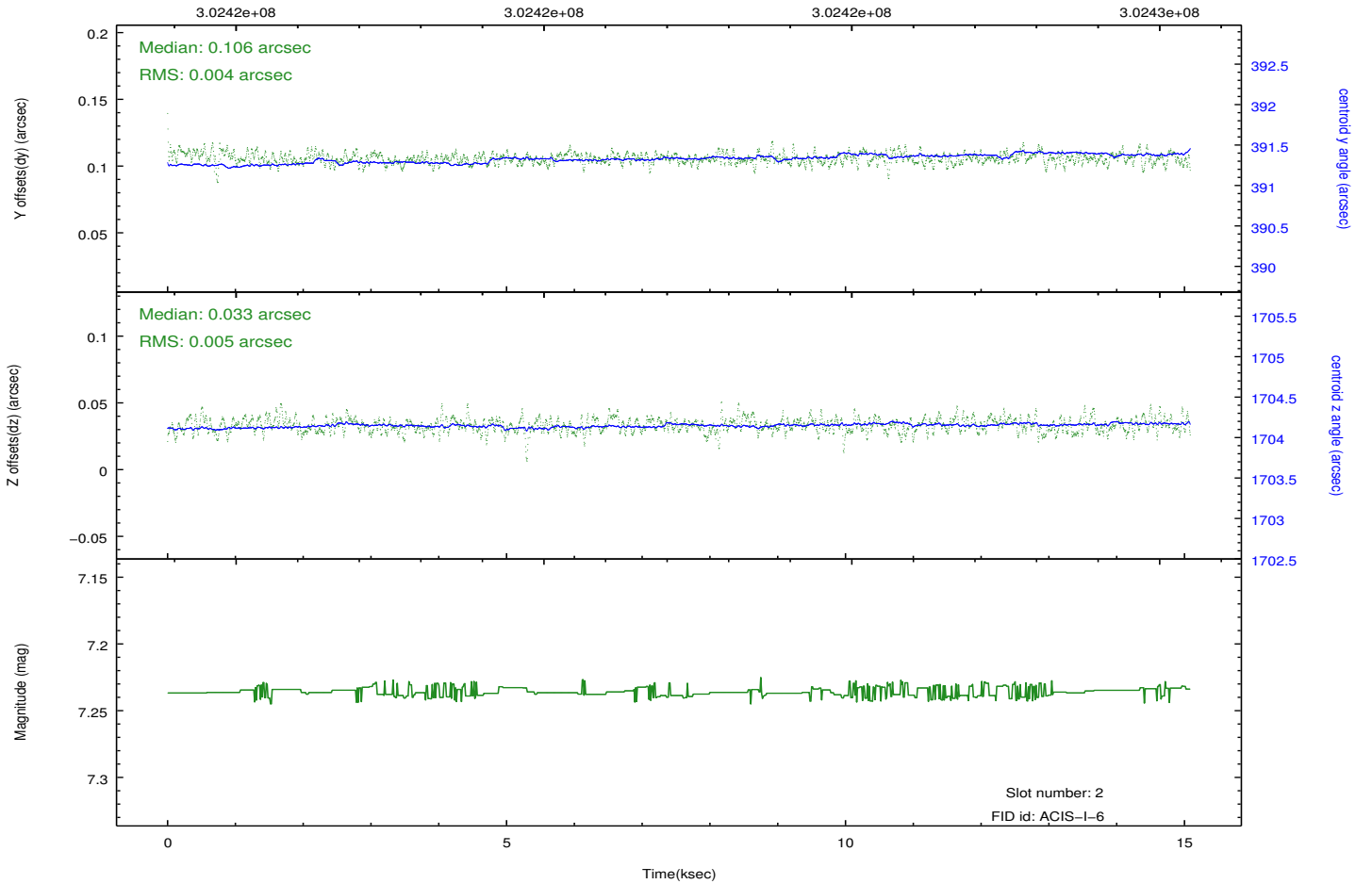
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.6971001

## A.2 Comments

Joint Proposal: NOAO. Roll preference met.