

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11728 - L2 Version 2  
Chandra X-Ray Center

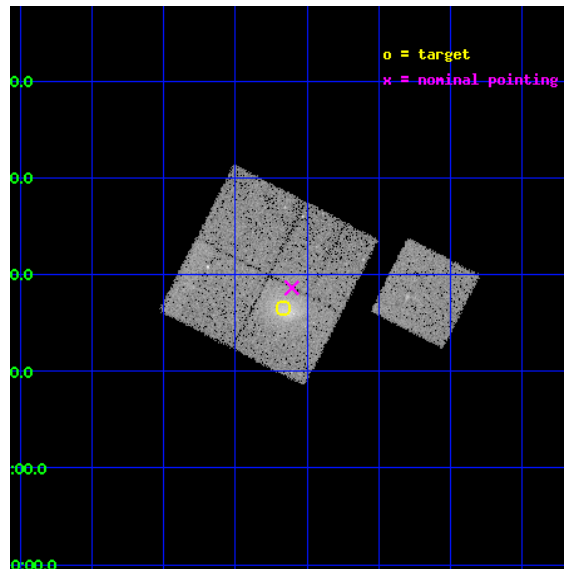
L2 Processing Date : Jun 12 2012

## 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

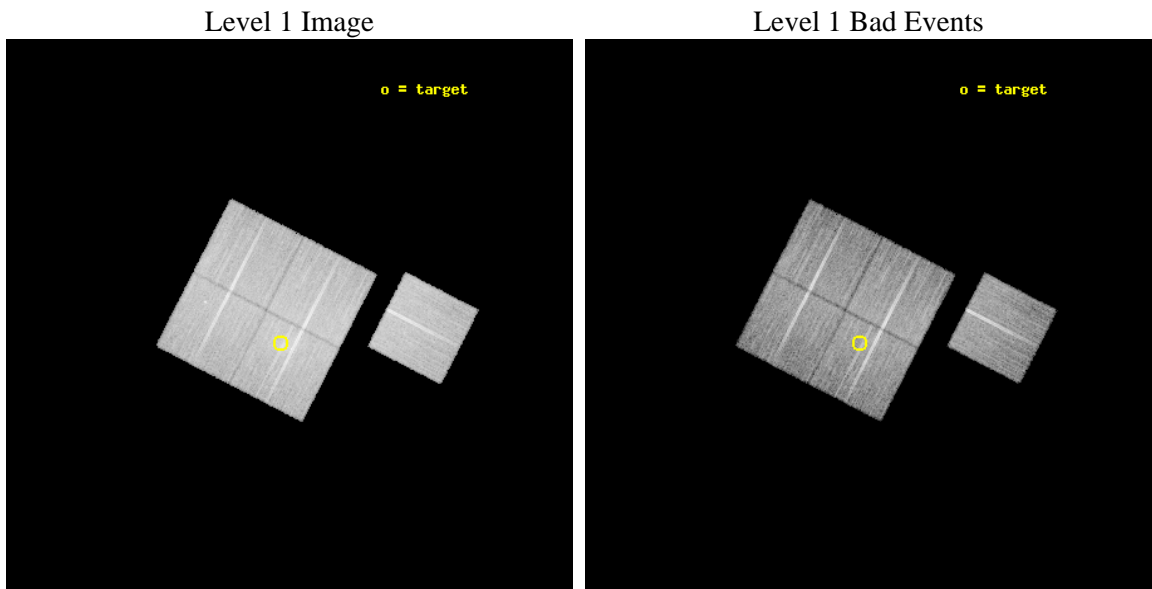
seq_num	800868	Sequence number
obs_id	11728	Observation id
title	Cosmology with a complete sample of 0.15	Proposal title
observer	Prof. Massimiliano Bonamente	Principal investigator
object	Abell 2631	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	354.417083	Observer's specified target RA [deg]
dec_targ	0.275833	Observer's specified target Dec [deg]
ra_nom	354.40151356311	Nominal RA [deg]
dec_nom	0.31022159007676	Nominal Dec [deg]
roll_nom	117.2087607859	Nominal Roll [deg]
revision	2	Processing version of data
ontime	17037.559130728	Sum of GTIs [s]
livetime	16814.950877817	Livetime [s]
ontime0	17040.700131059	Sum of GTIs [s]
ontime1	17040.700131059	Sum of GTIs [s]
ontime2	17040.700131059	Sum of GTIs [s]
ontime3	17037.559130728	Sum of GTIs [s]
ontime6	17037.559130669	Sum of GTIs [s]
l2events	74229	Number of level 2 events



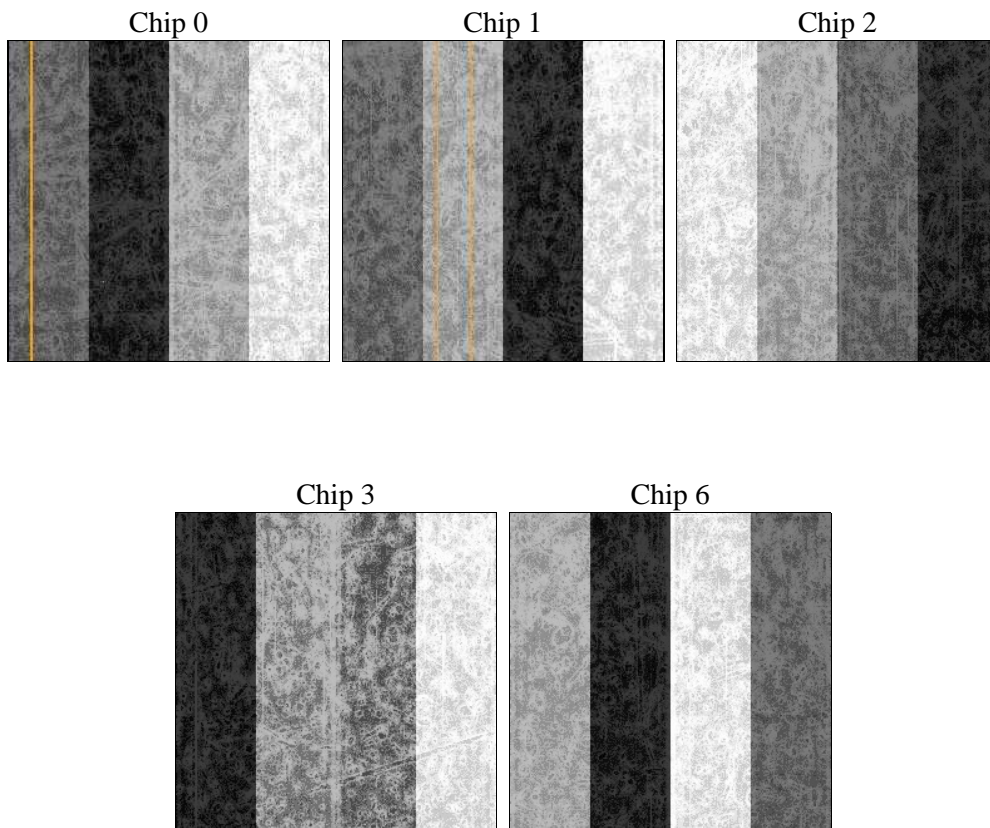
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	17037.559130728	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	17040.700131059	Sum of GTIs [s]
date	2012-06-12T02:29:46	Date and time of file creation	ontime1	17040.700131059	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	17040.700131059	Sum of GTIs [s]
			ontime3	17037.559130728	Sum of GTIs [s]
			ontime6	17037.559130669	Sum of GTIs [s]
			l1events	756722	Number of level 1 events

### 2.1.4 Events

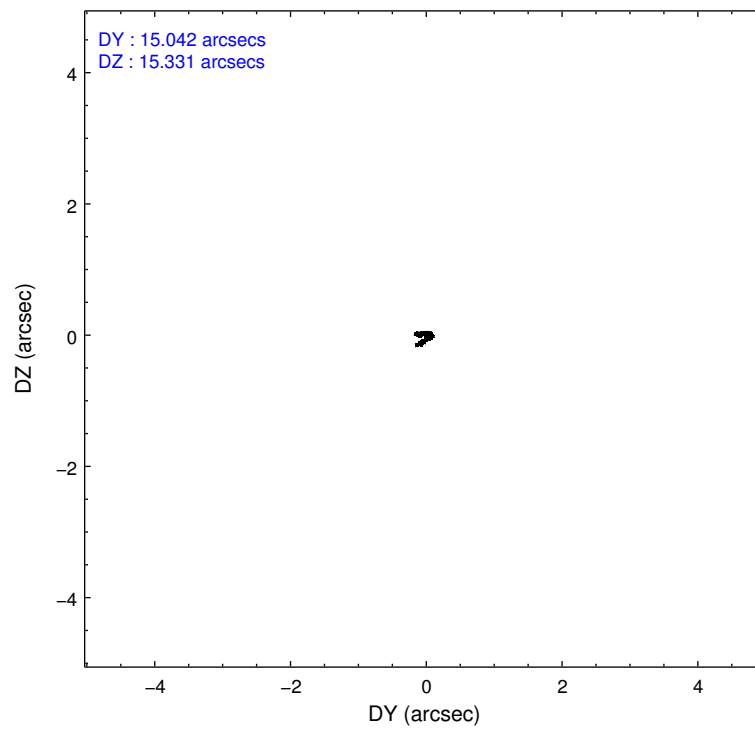
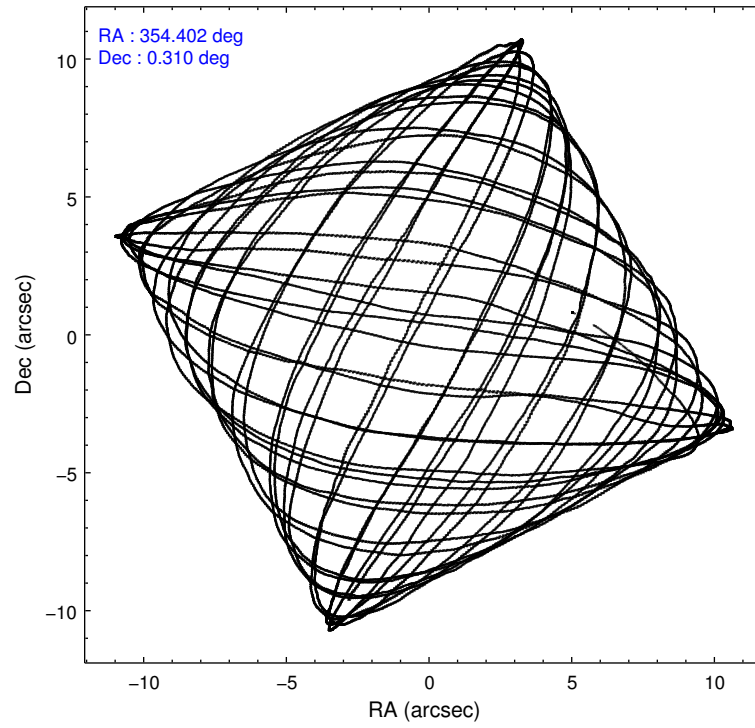
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	141234	142440	163929	158404	150715
rejected events	125859	124549	148370	135285	134929
rejected %	89%	87%	90%	85%	89%

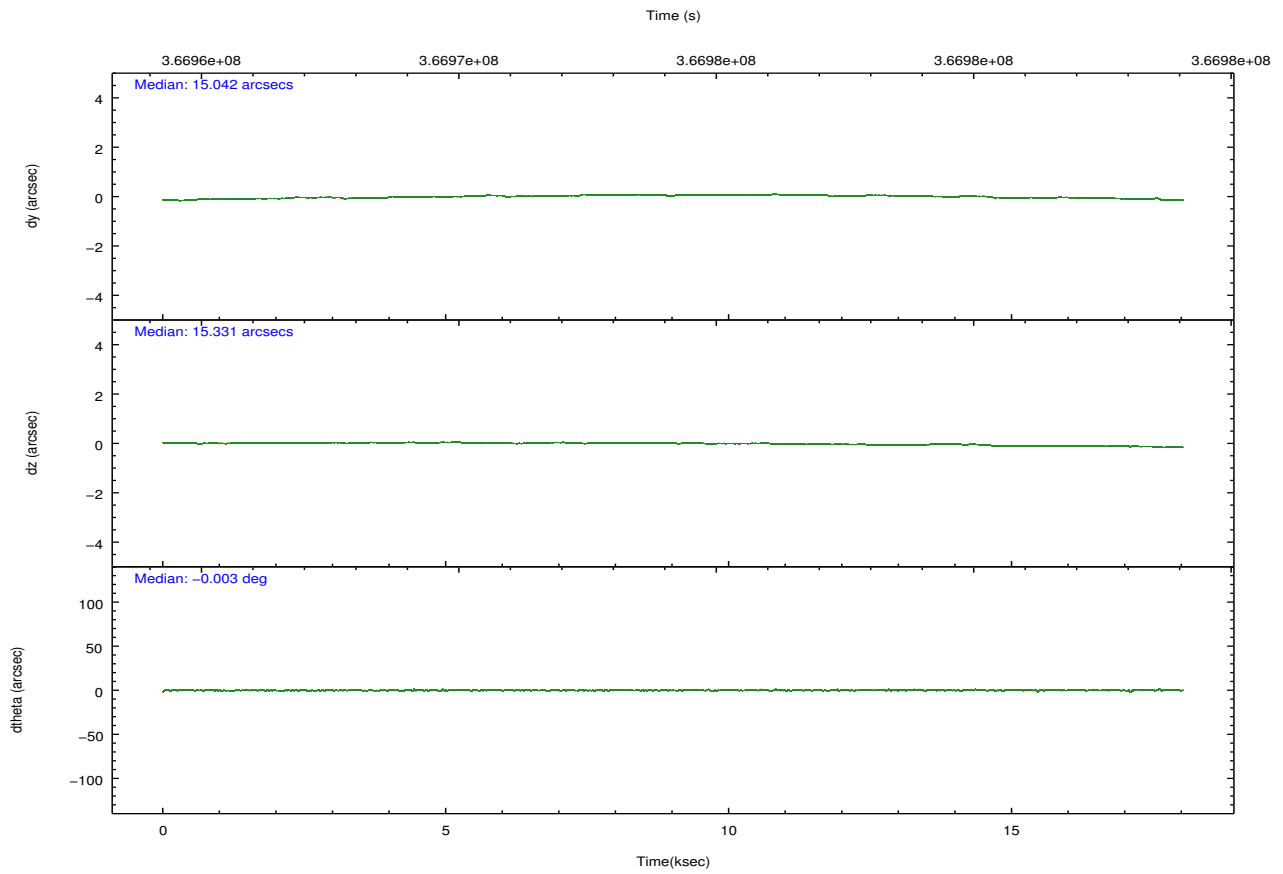
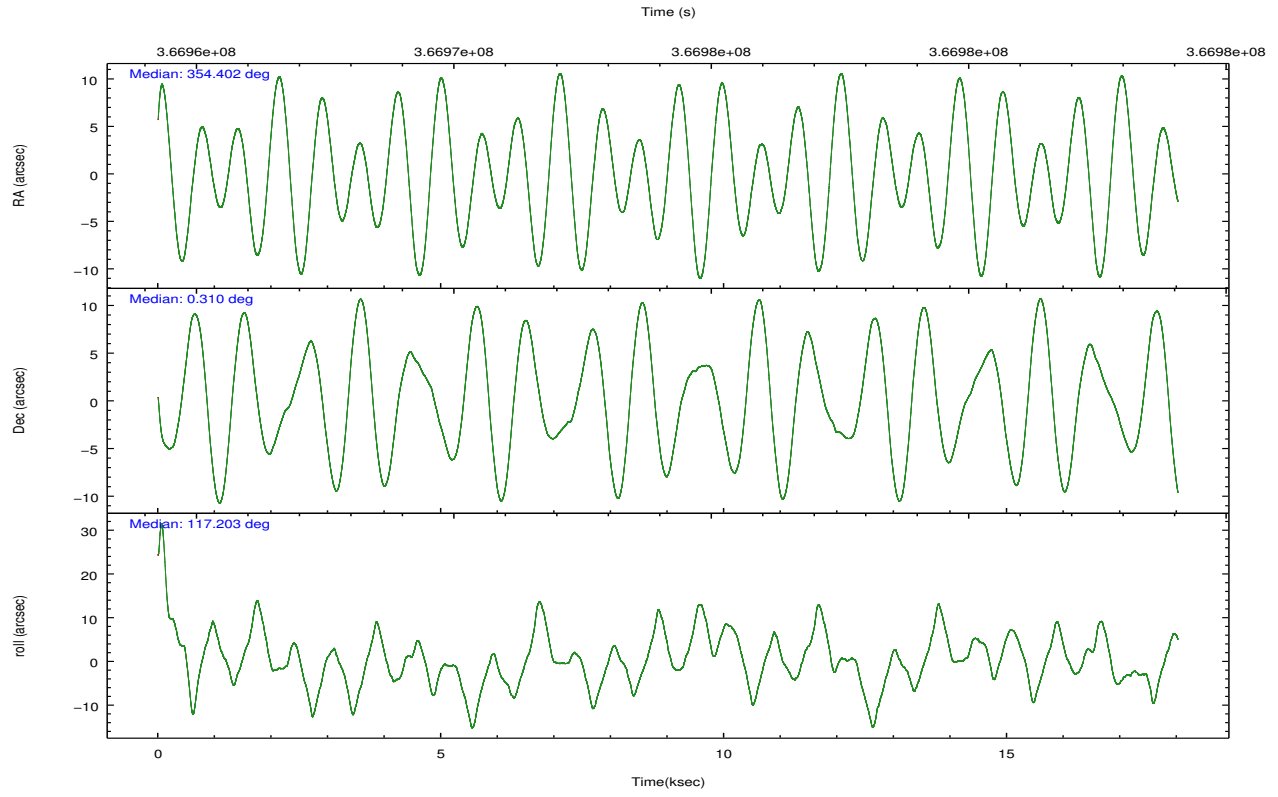
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5332	6709	5891	12046	5583
	3%	4%	3%	7%	3%
grade 1 events	86	89	90	127	74
	0%	0%	0%	0%	0%
grade 2 events	3777	4057	3788	4024	3529
	2%	2%	2%	2%	2%
grade 3 events	1695	1812	1569	1921	1626
	1%	1%	0%	1%	1%
grade 4 events	1602	1755	1551	1911	1673
	1%	1%	0%	1%	1%
grade 5 events	5359	5966	5043	6329	6012
	3%	4%	3%	3%	3%
grade 6 events	2971	3563	2760	3220	3376
	2%	2%	1%	2%	2%
grade 7 events	120412	118489	143237	128826	128842
	85%	83%	87%	81%	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	354.424686	354.4015135631098	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.295422	0.3102215900767618	Alternating exposures requested	N	N
[deg] Pointing Roll	116.999965	117.2087607858992	[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)	366966181.184000	366964092.12141			
Observation start date	2009-08-18T07:01:55	2009-08-18T06:28:12			
[s] Observation end time (MET)	366983181.184000	366983612.73489			
Observation end date	2009-08-18T11:45:15	2009-08-18T11:53:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect



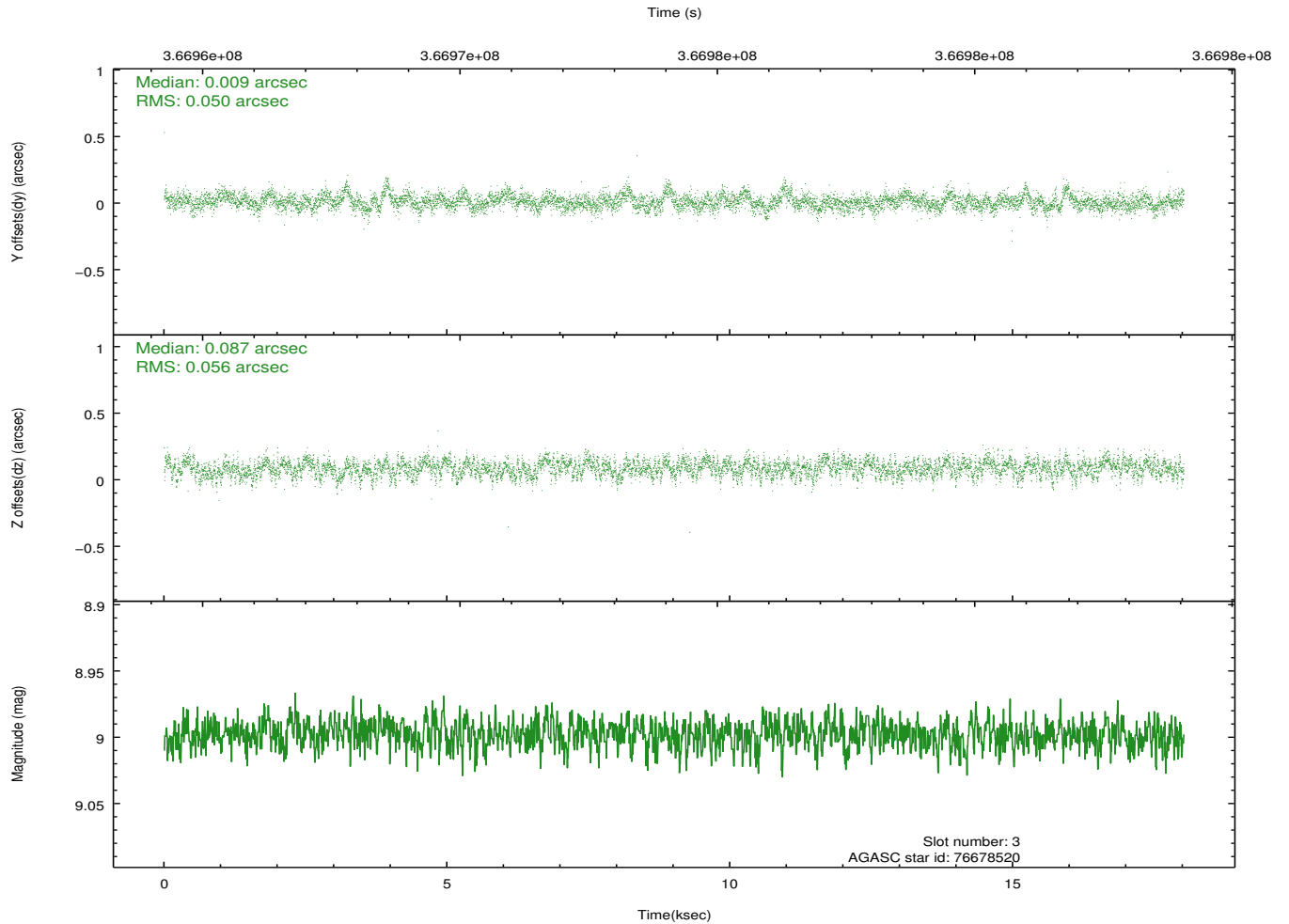
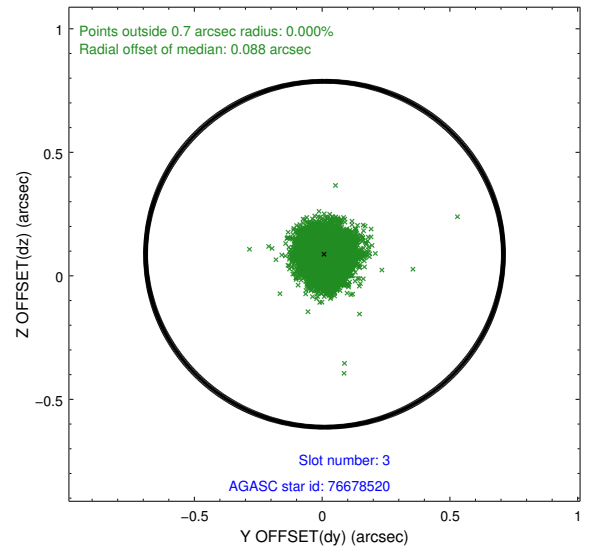
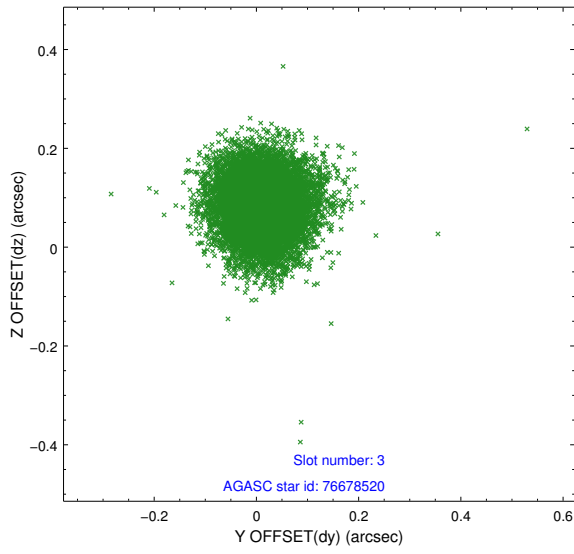


### Slot Statistics

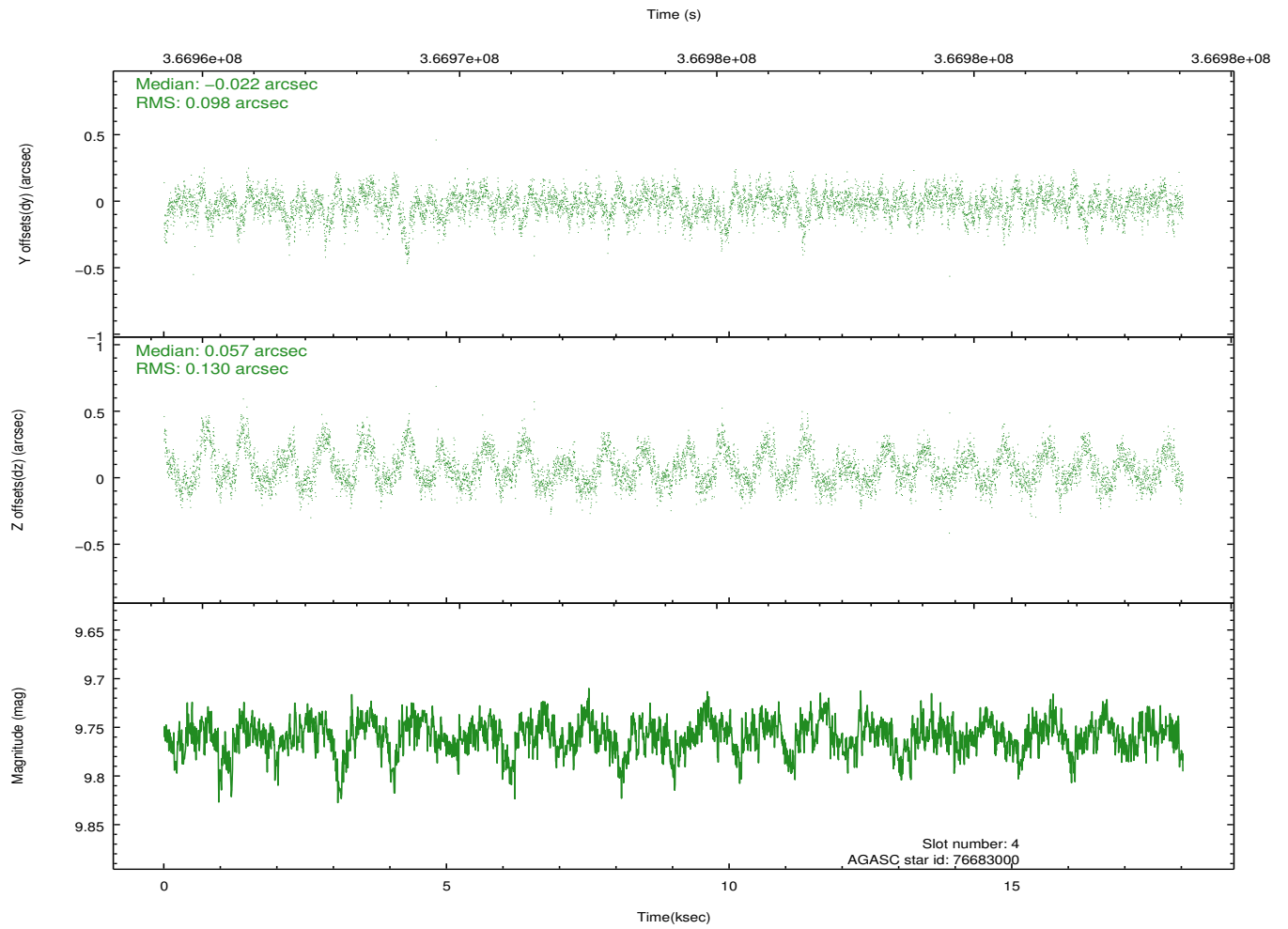
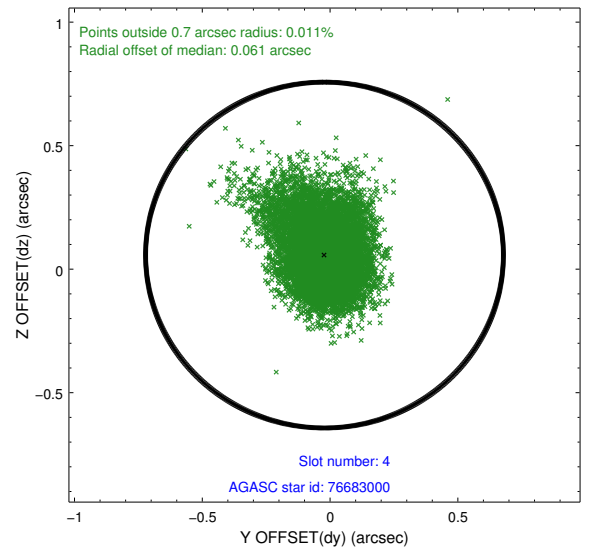
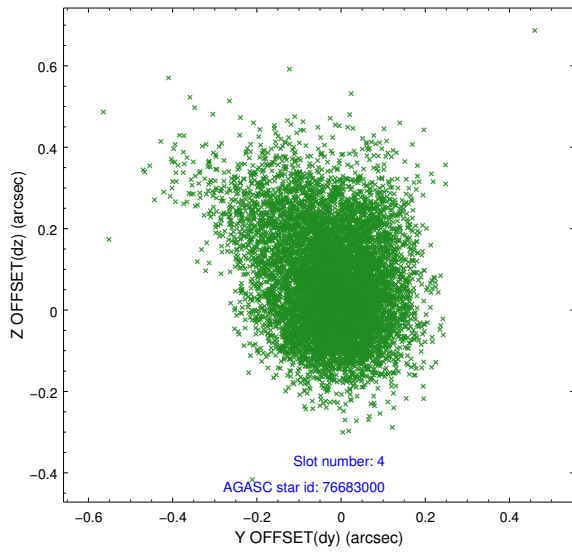
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	4396	0.084	-0.033	0.006	0.010	0.000000	0.000000	924.42	-962.06
1	FID	ACIS-I-5	6.99	4396	-0.274	0.071	0.006	0.010	0.000000	0.000000	-1823.96	935.32
2	FID	ACIS-I-6	7.01	4396	0.099	0.032	0.006	0.011	0.000000	0.000000	389.67	1580.10
3	GUIDE	76678520	9.00	8787	0.009	0.087	0.079	0.127	354.768103	0.123630	-1111.67	-820.47
4	GUIDE	76683000	9.76	8759	-0.022	0.057	0.167	0.289	354.797039	0.975754	1574.35	-2305.81
5	GUIDE	76684280	8.87	8523	-0.095	0.012	0.082	0.142	354.578237	0.780972	1306.92	-1286.14
6	GUIDE	688260248	9.71	8775	0.130	-0.030	0.111	0.183	354.731264	-0.198069	-2083.23	-176.47
7	GUIDE	76815856	9.13	8787	-0.024	-0.147	0.119	0.196	355.105256	0.393799	-796.17	-2343.68

## 2.4 Star Slots

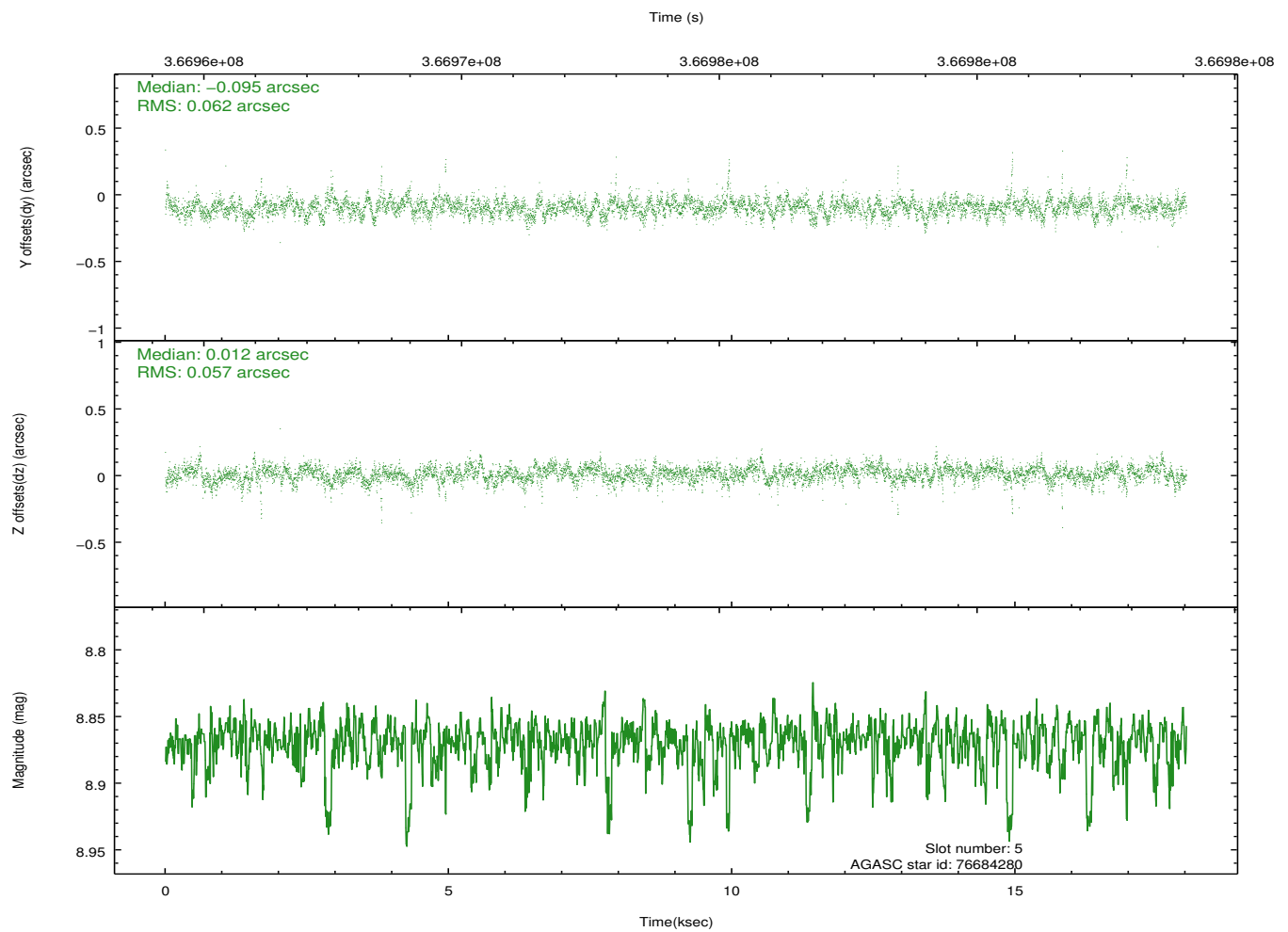
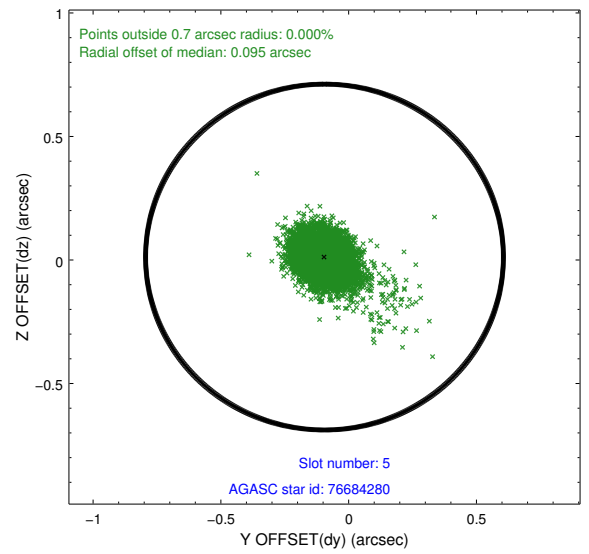
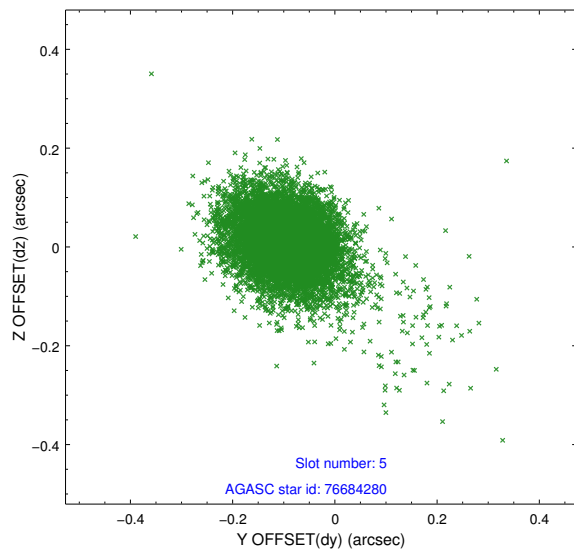
### 2.4.1 Slot 3



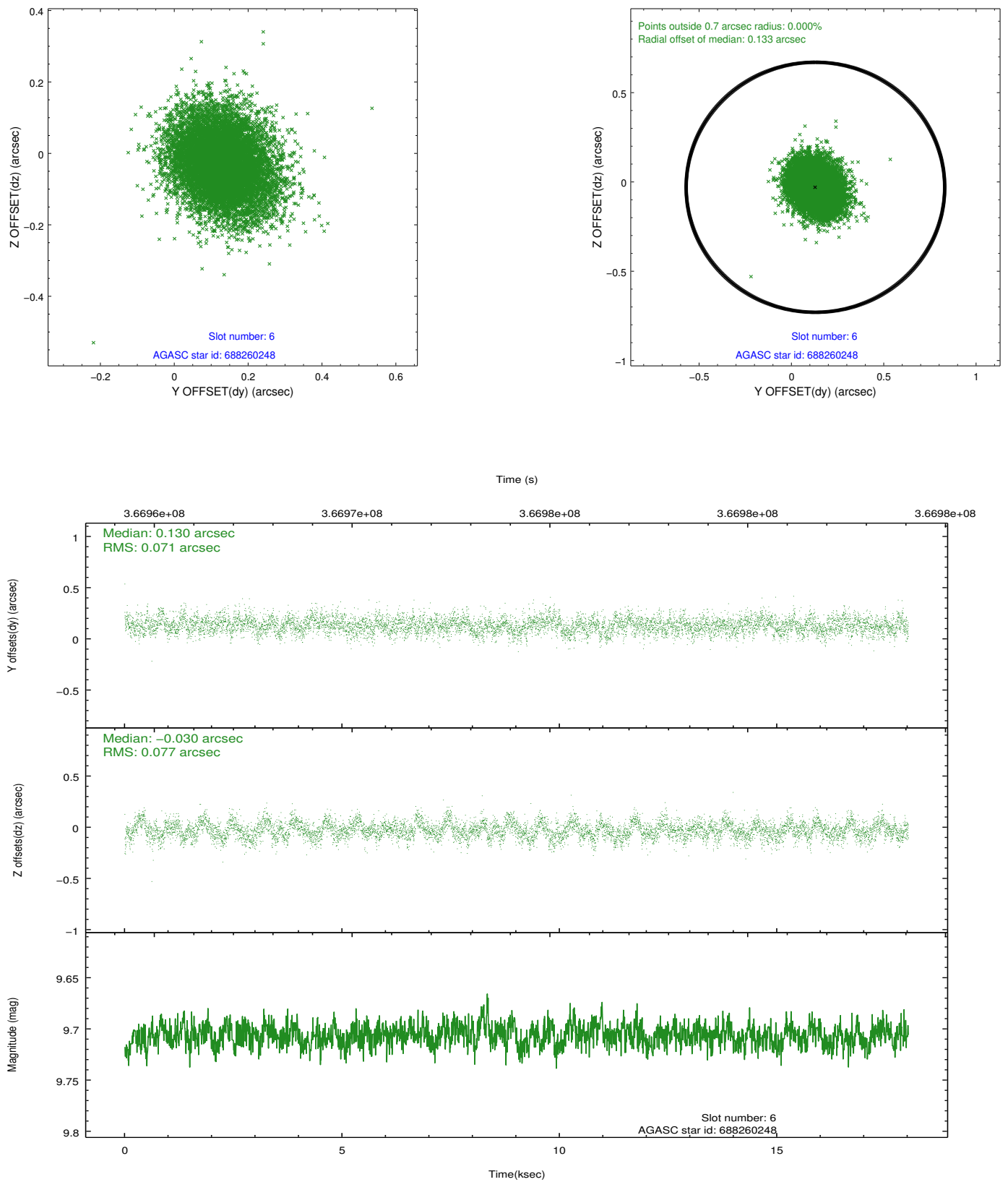
## 2.4.2 Slot 4



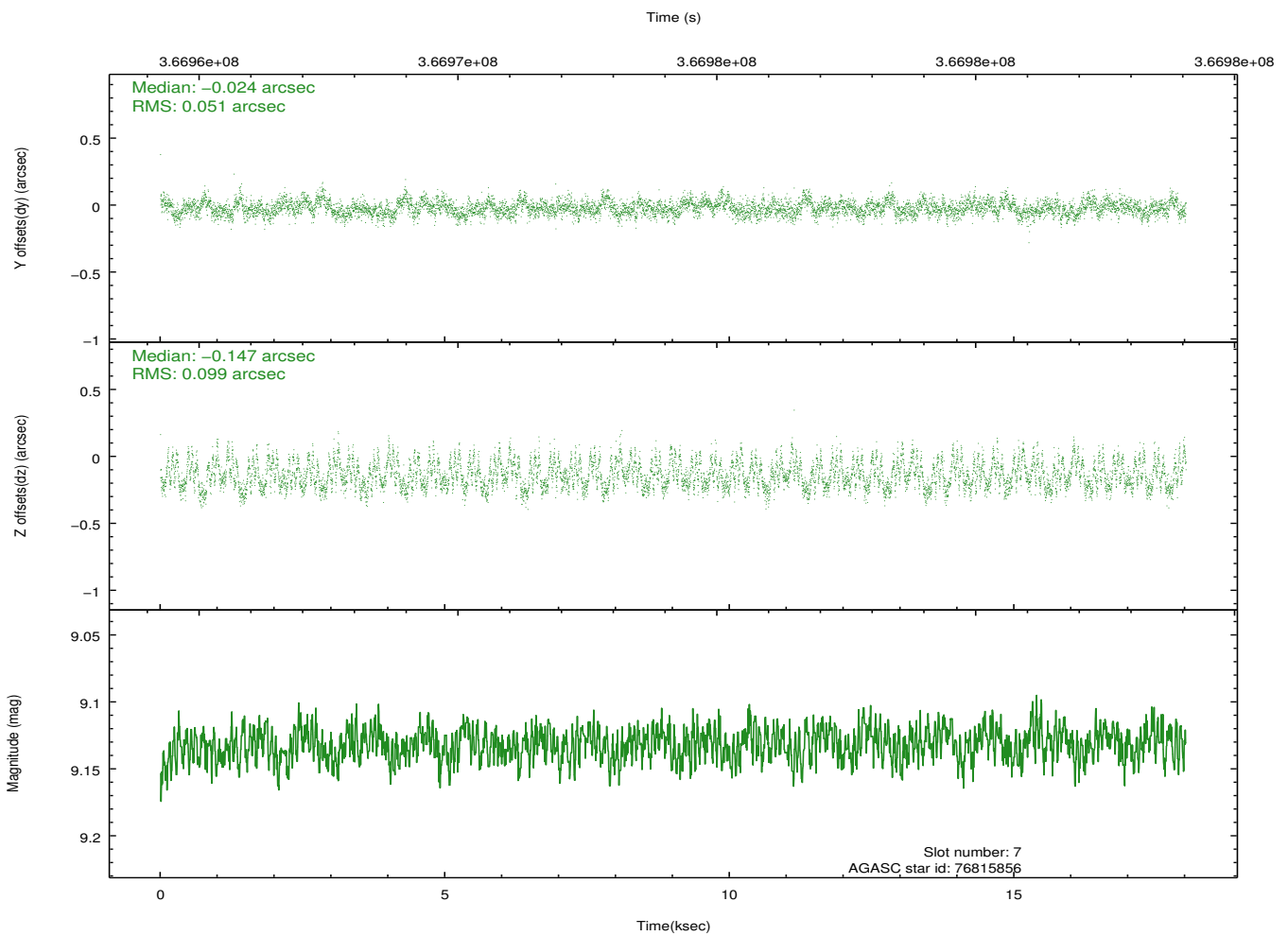
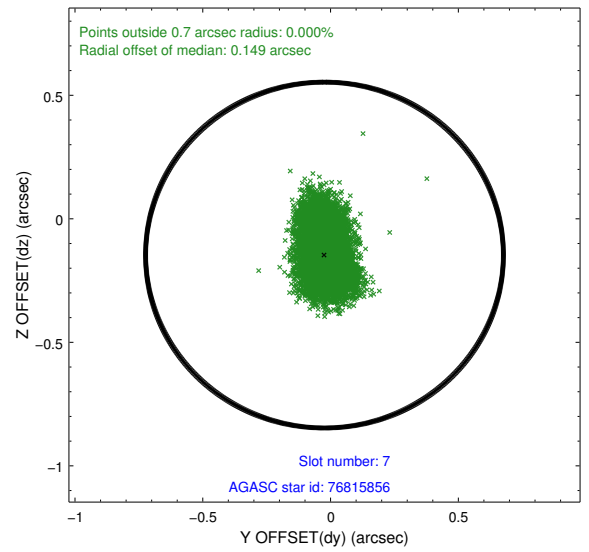
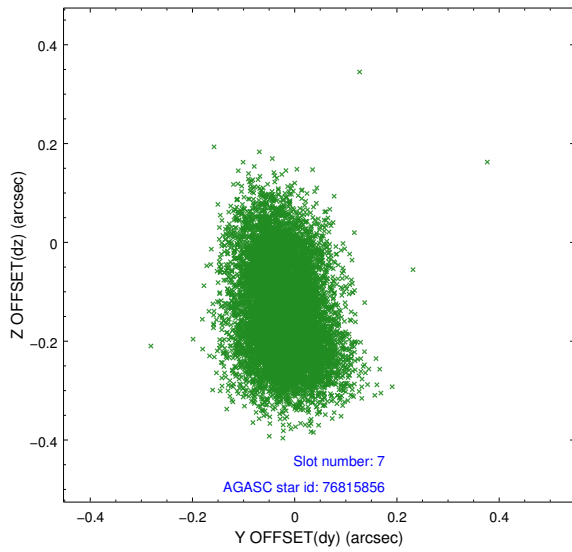
### 2.4.3 Slot 5



## 2.4.4 Slot 6

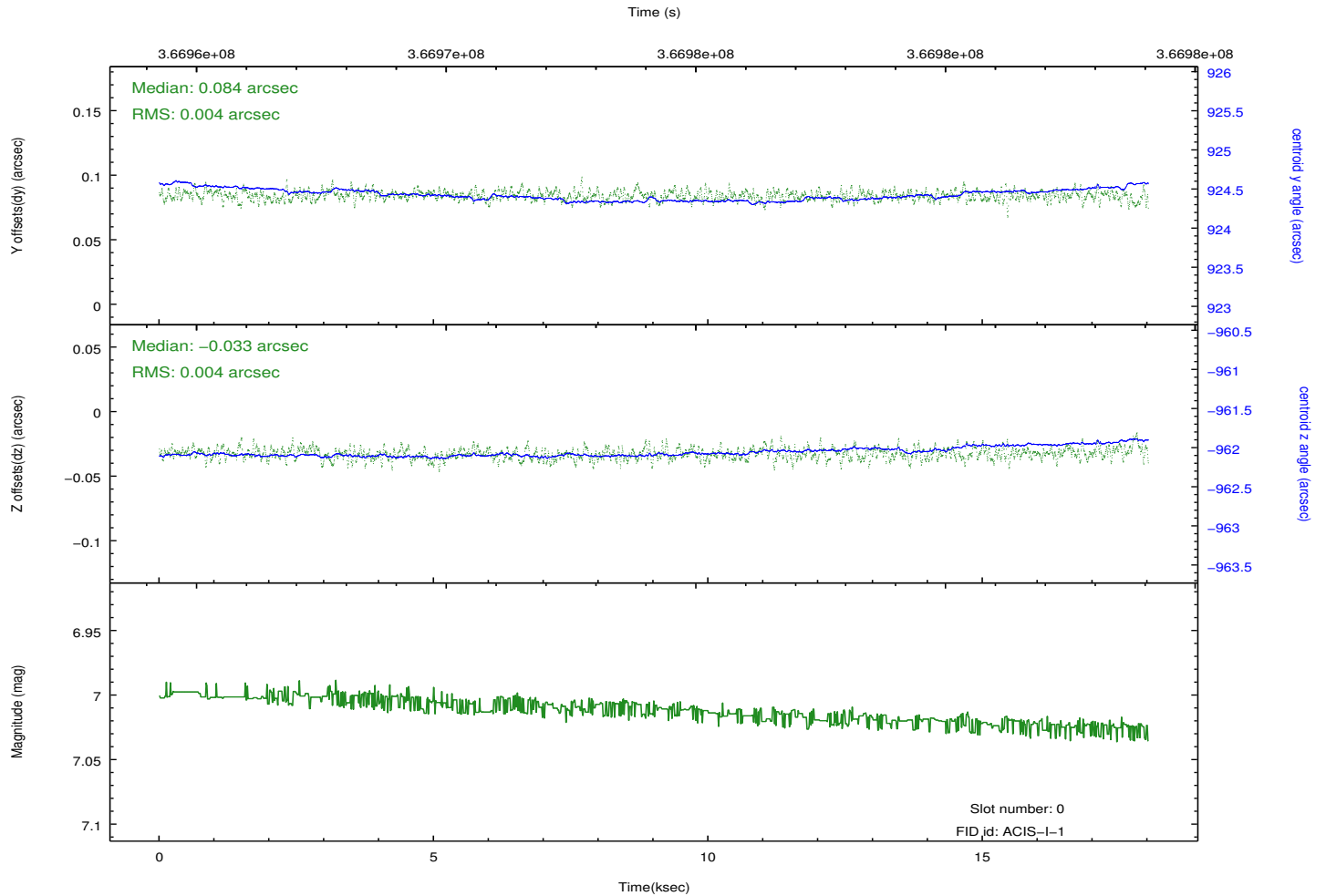
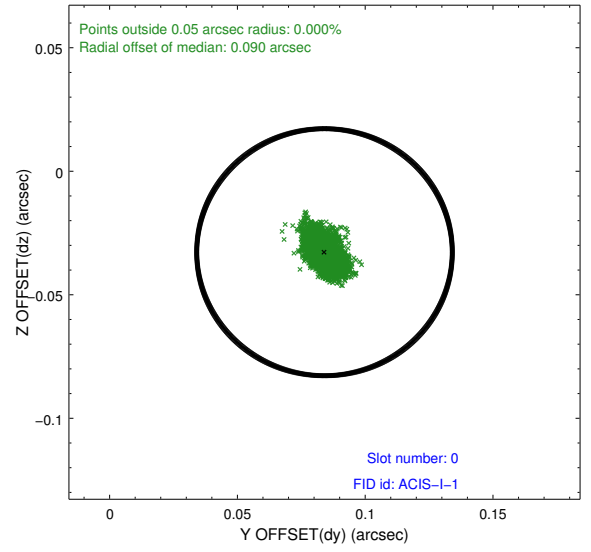
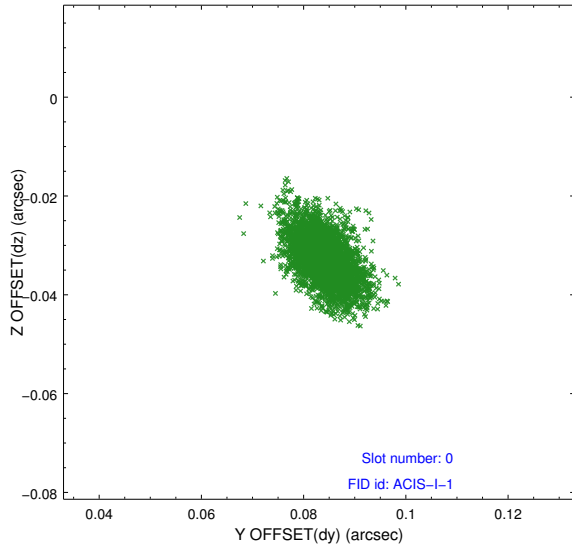


## 2.4.5 Slot 7

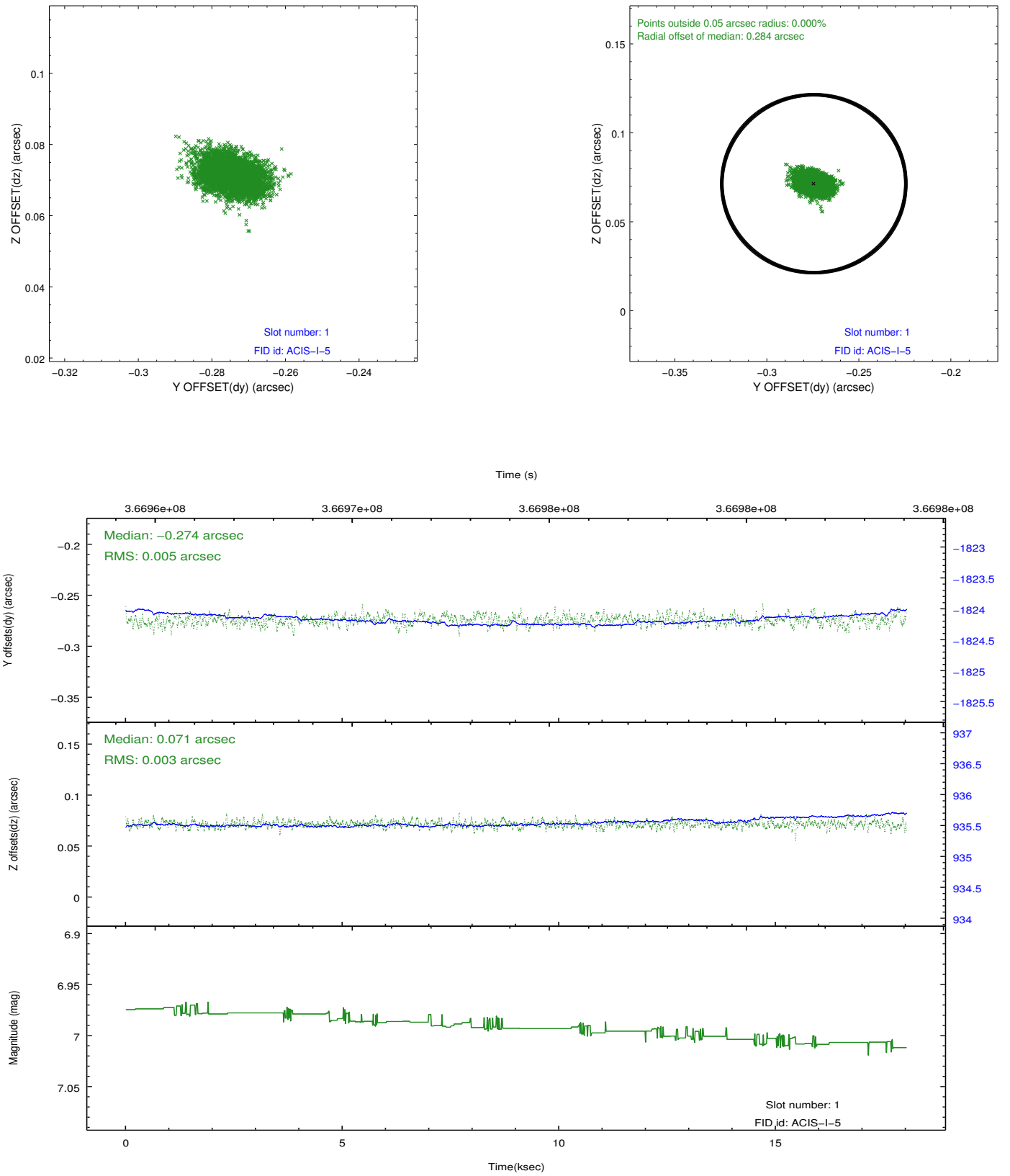


## 2.5 FID Slots

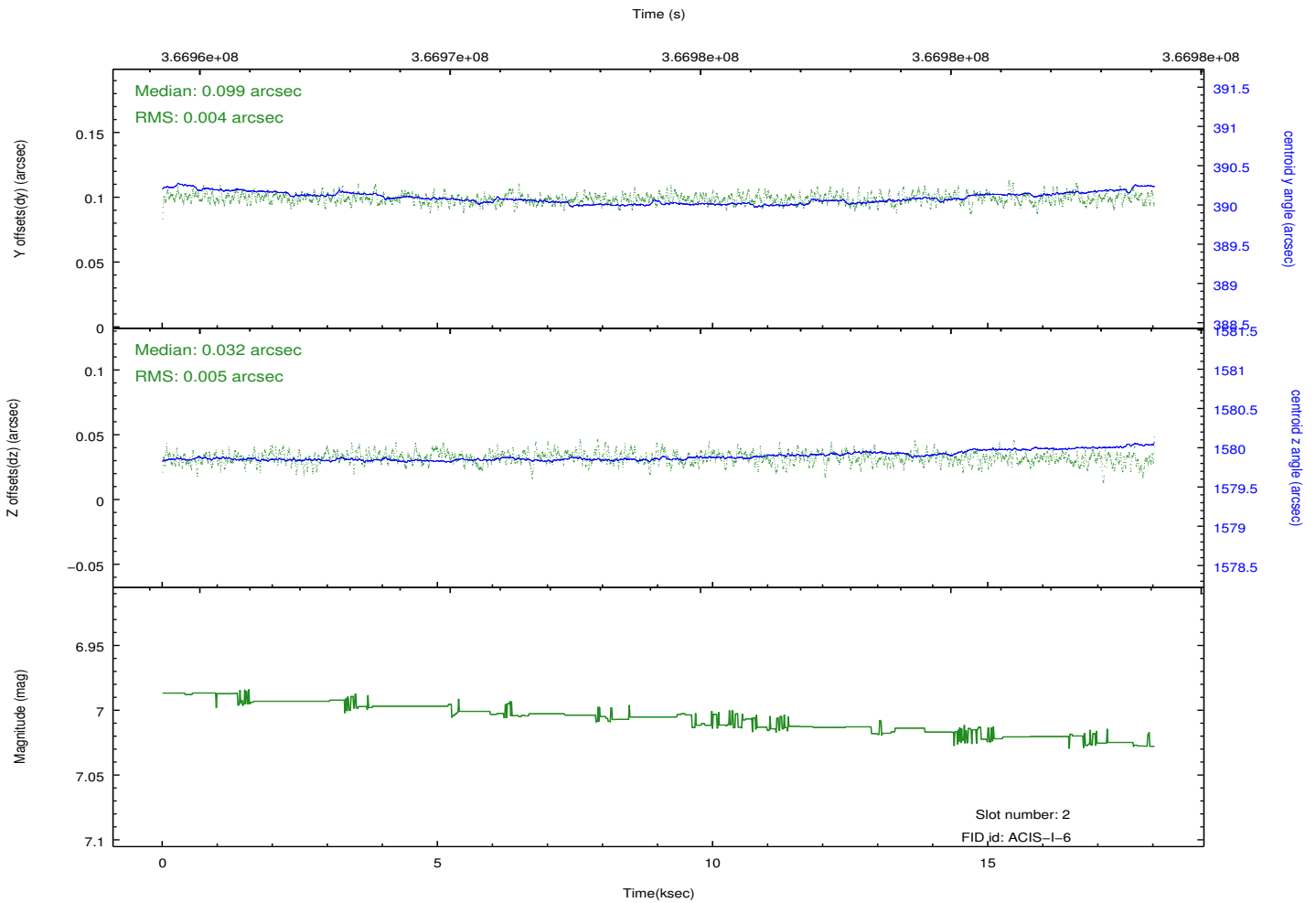
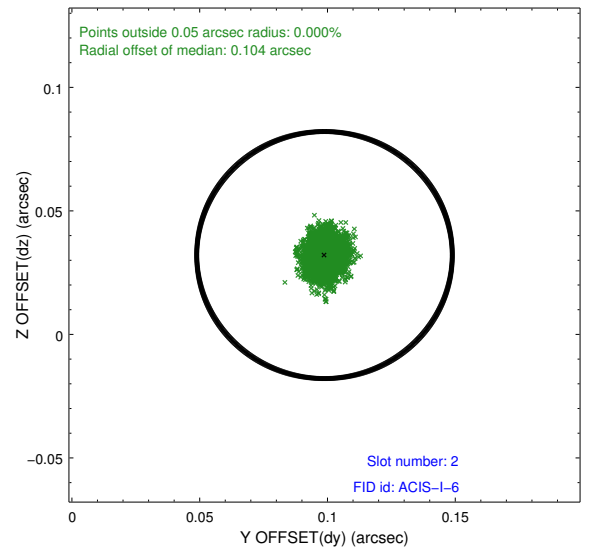
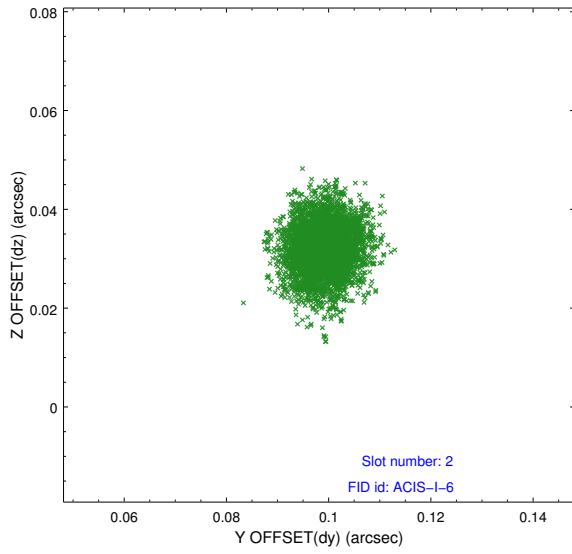
### 2.5.1 Slot 0



## 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)	2012.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.036946456969

## A.2 Comments