

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 8004 - L2 Version 2  
Chandra X-Ray Center

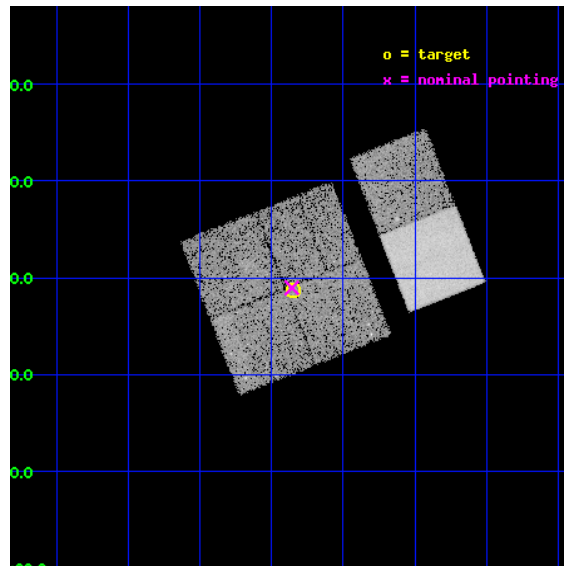
L2 Processing Date : Apr 14 2012

## 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

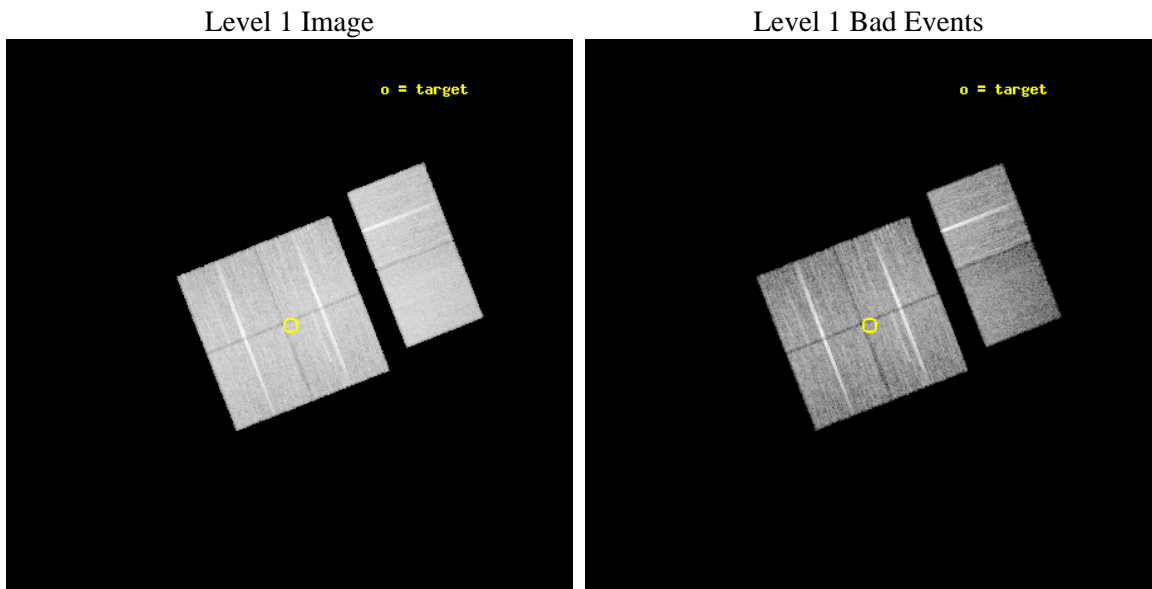
seq_num	900548	Sequence number
obs_id	8004	Observation id
title	THE CHANDRA-COSMOS SURVEY	Proposal title
observer	Dr. Martin Elvis	Principal investigator
object	C-COSMOS2-6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.836508	Observer's specified target RA [deg]
dec_targ	2.479344	Observer's specified target Dec [deg]
ra_nom	149.83975826011	Nominal RA [deg]
dec_nom	2.4826974387406	Nominal Dec [deg]
roll_nom	68.608565647802	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15929.599940717	Sum of GTIs [s]
livetime	15727.889754614	Livetime [s]
ontime0	15926.358970404	Sum of GTIs [s]
ontime1	15923.118019819	Sum of GTIs [s]
ontime2	15923.117980182	Sum of GTIs [s]
ontime3	15929.599940717	Sum of GTIs [s]
ontime6	15929.599940717	Sum of GTIs [s]
ontime7	15929.599940717	Sum of GTIs [s]
l2events	108886	Number of level 2 events



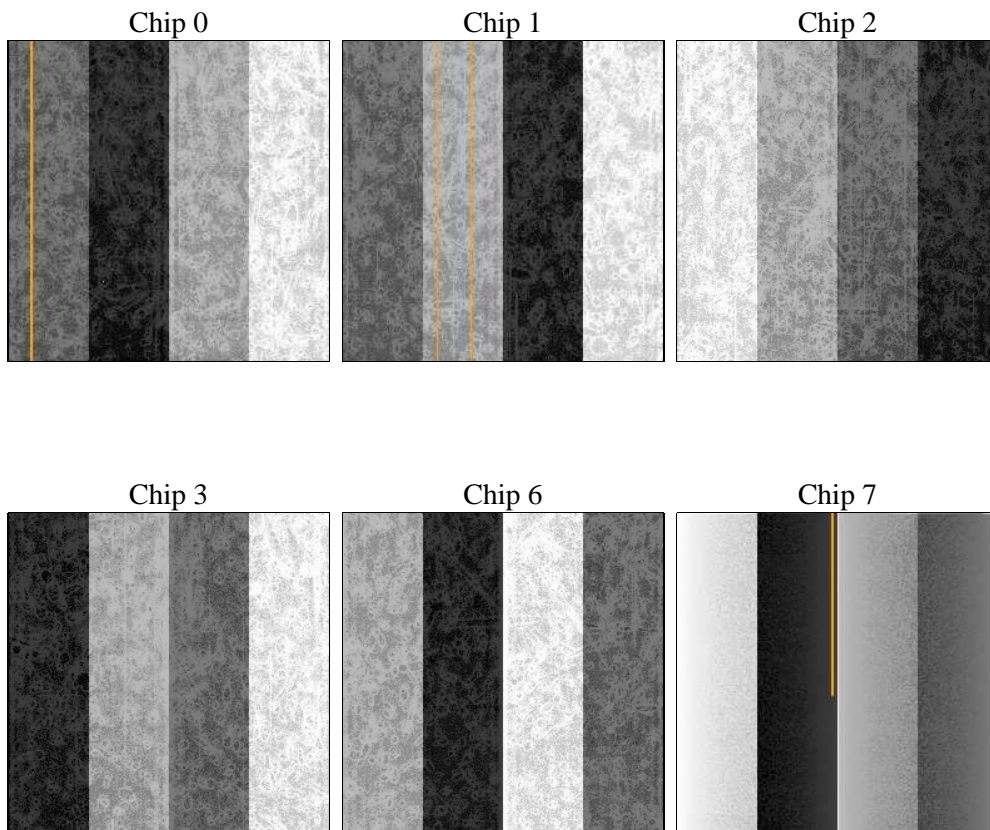
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15886.102000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	15929.599940717	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	15926.358970404	Sum of GTIs [s]
date	2012-04-14T04:53:09	Date and time of file creation	ontime1	15923.118019819	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	15923.117980182	Sum of GTIs [s]
			ontime3	15929.599940717	Sum of GTIs [s]
			ontime6	15929.599940717	Sum of GTIs [s]
			ontime7	15929.599940717	Sum of GTIs [s]
			l1events	746425	Number of level 1 events

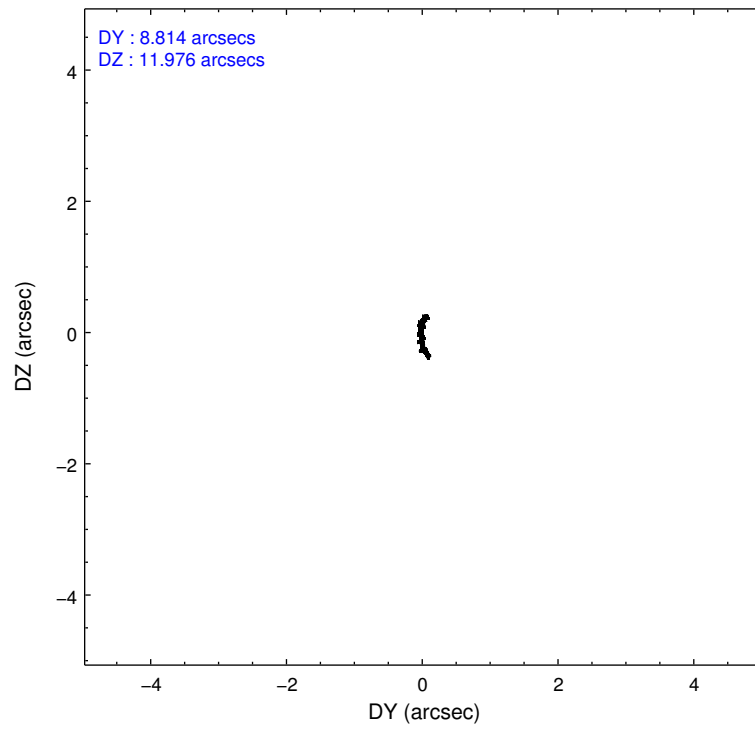
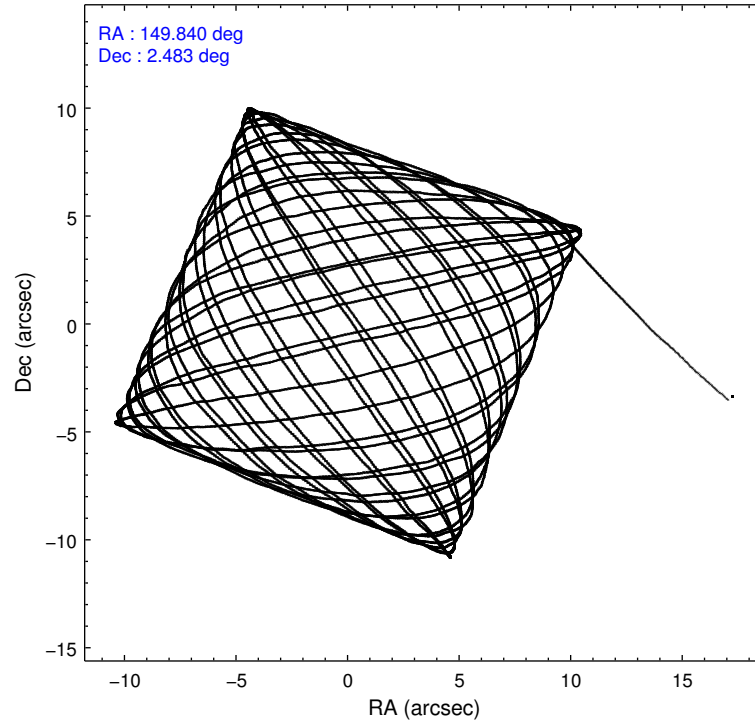
### 2.1.4 Events

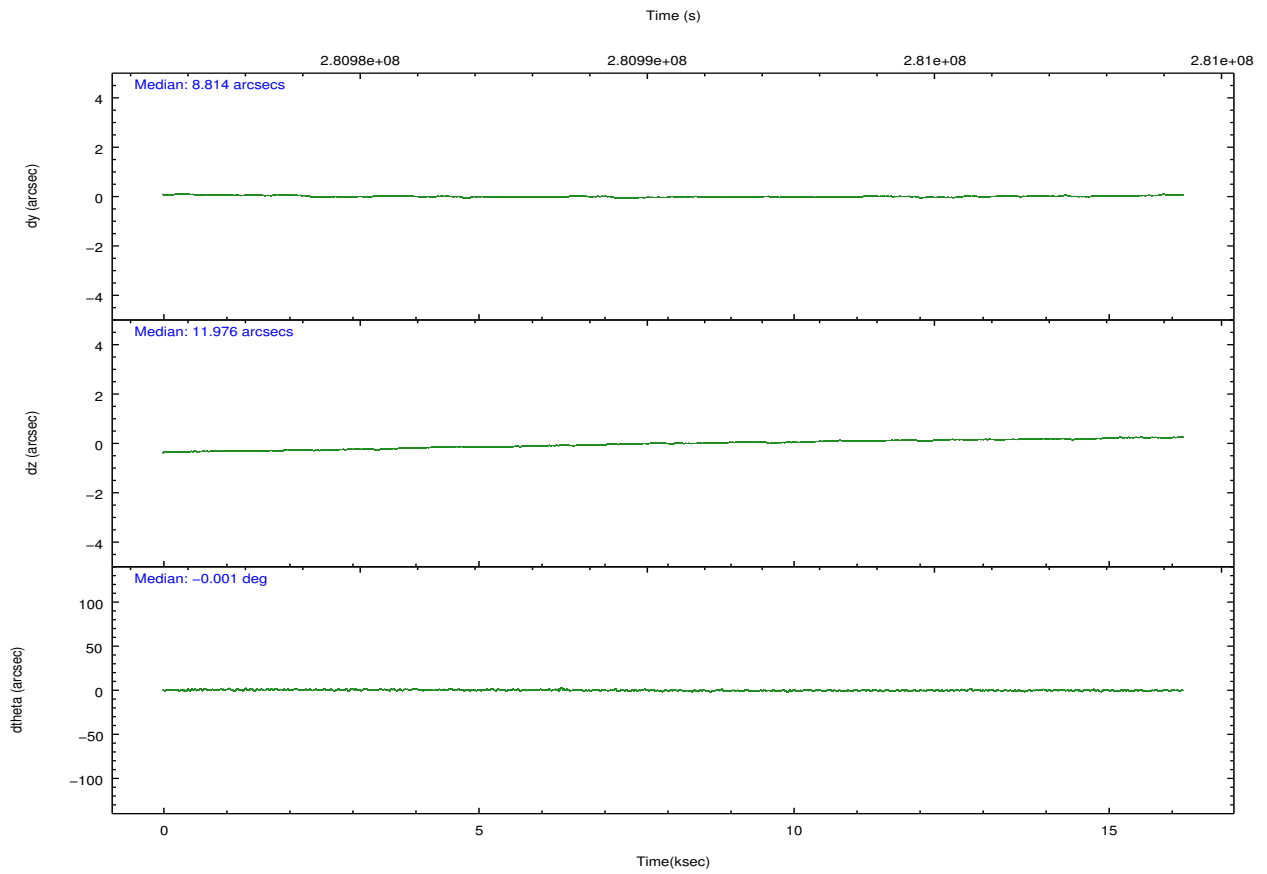
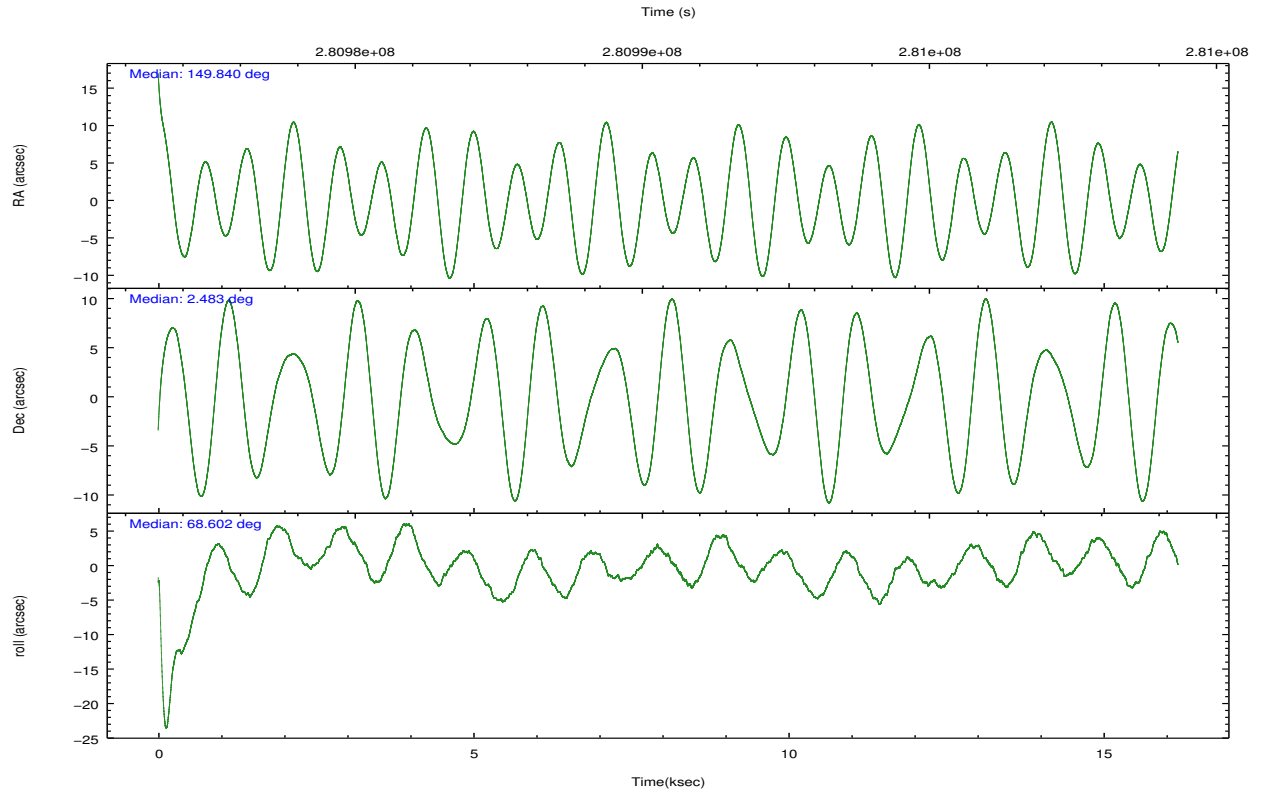
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	114340	114240	130165	120821	132161	134698	grade 0 events	4107	4940	4095	4017	4403	5577
rejected events	102679	100882	118758	109595	119645	73992		3%	4%	3%	3%	3%	4%
rejected %	89%	88%	91%	90%	90%	54%	grade 1 events	53	62	74	64	71	170
								0%	0%	0%	0%	0%	0%
							grade 2 events	2813	2961	2682	2443	2733	12085
								2%	2%	2%	2%	2%	8%
							grade 3 events	1306	1438	1294	1273	1356	5550
								1%	1%	0%	1%	1%	4%
							grade 4 events	1225	1418	1298	1317	1277	5518
								1%	1%	0%	1%	0%	4%
							grade 5 events	4082	4419	3789	4795	4983	13790
								3%	3%	2%	3%	3%	10%
							grade 6 events	2211	2607	2046	2179	2753	32000
								1%	2%	1%	1%	2%	23%
							grade 7 events	98543	96395	114887	104733	114585	60008
								86%	84%	88%	86%	86%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	149.843961	149.8397582601148	CCD I2 on	Y	Y
[deg] Pointing Dec	2.455606	2.48269743874062	CCD I3 on	Y	Y
[deg] Pointing Roll	68.399676	68.60856564780163	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	280982653.184000	280981575.19994	CCD S5 on	N	N
Observation start date	2006-11-27T02:43:08	2006-11-27T02:26:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	280998539.184000	280998776.75076	On-chip summing requested	N	N
Observation end date	2006-11-27T07:07:54	2006-11-27T07:12:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



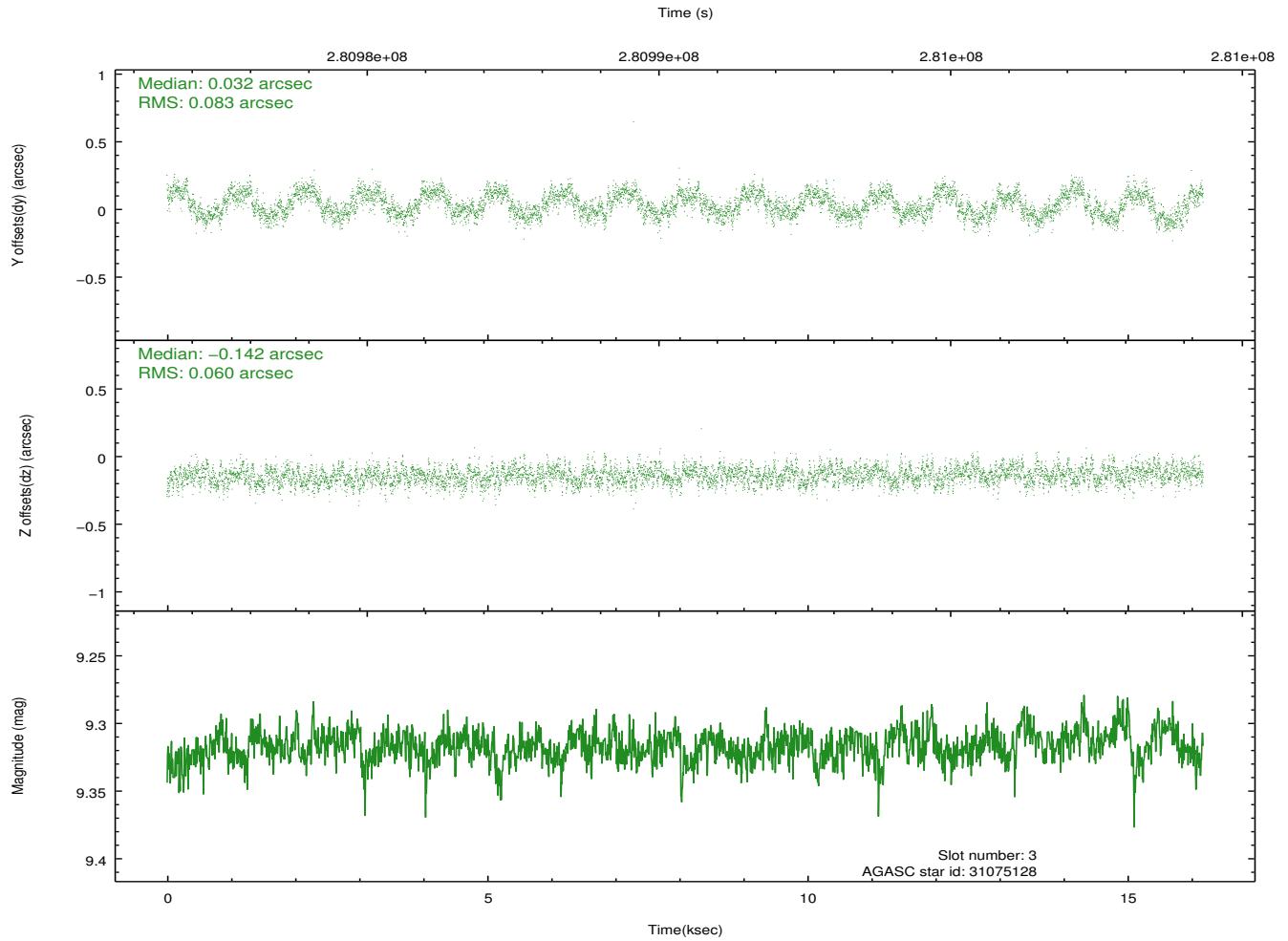
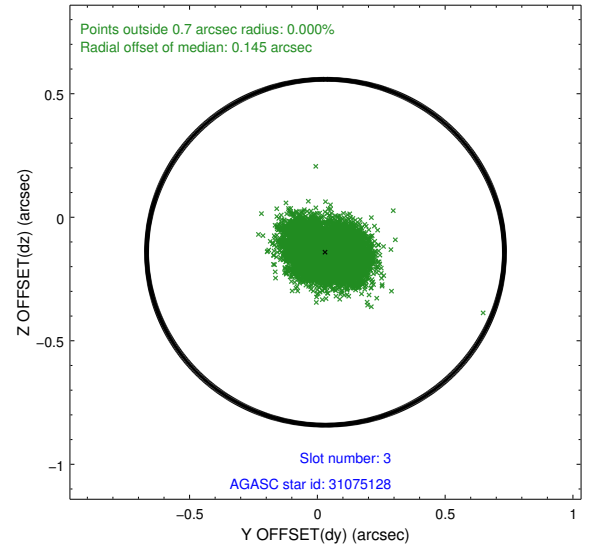
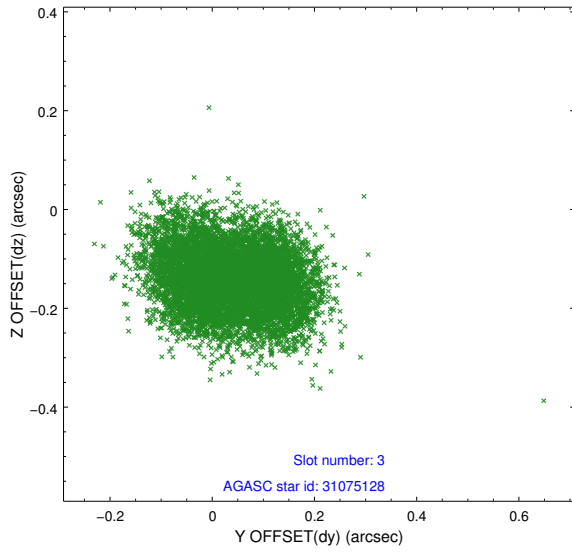


### Slot Statistics

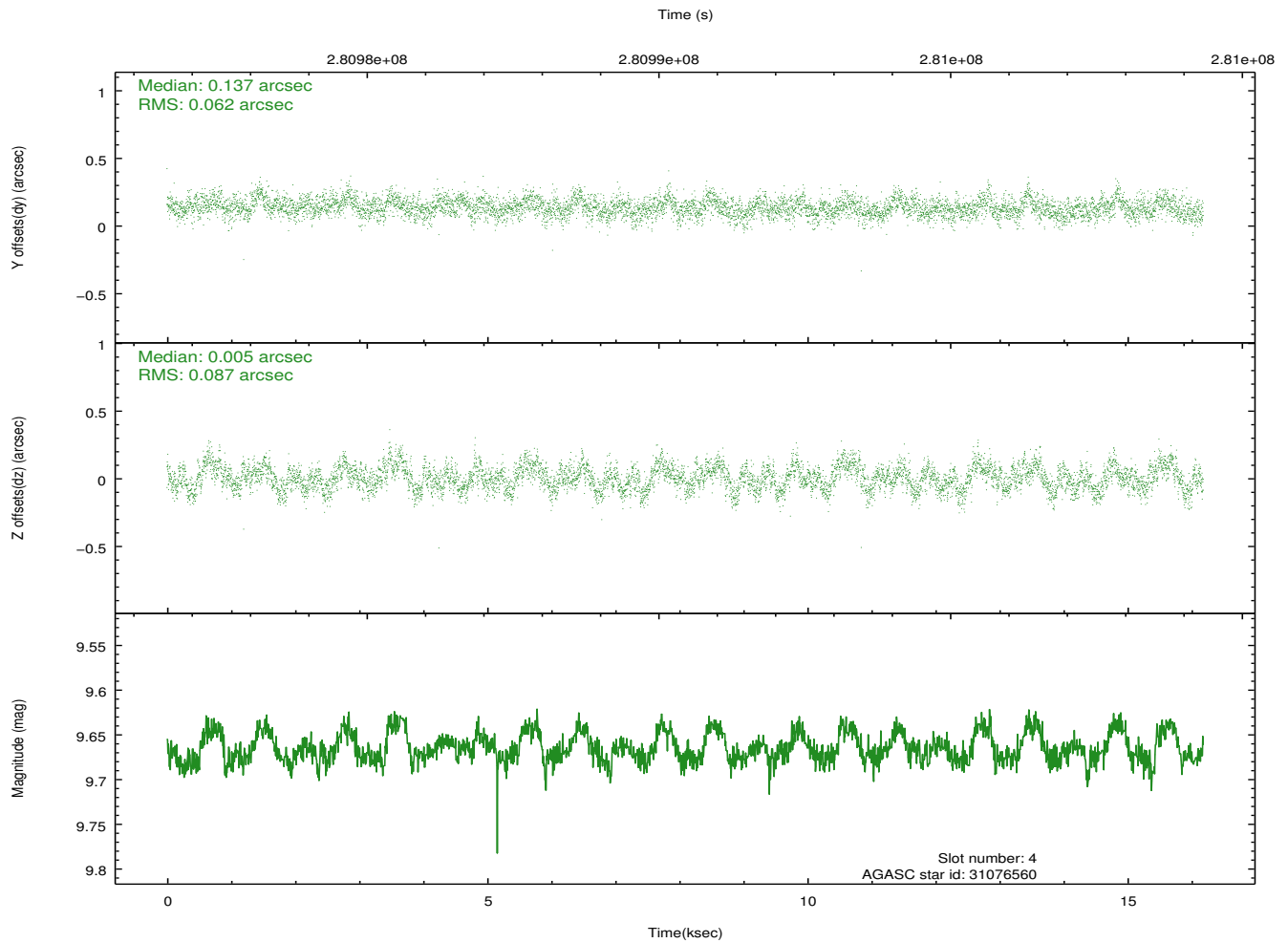
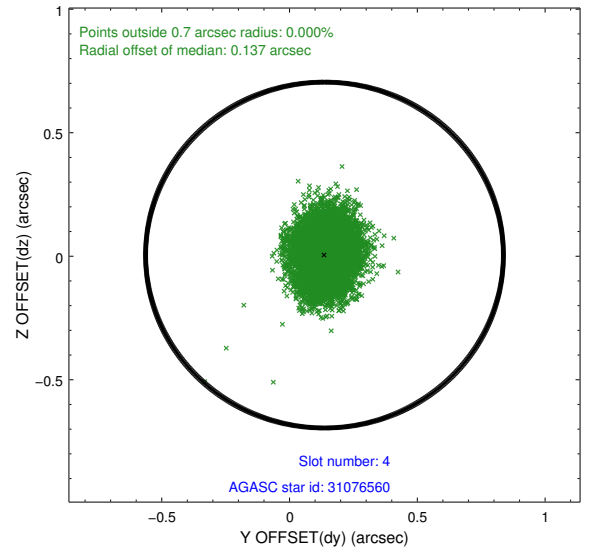
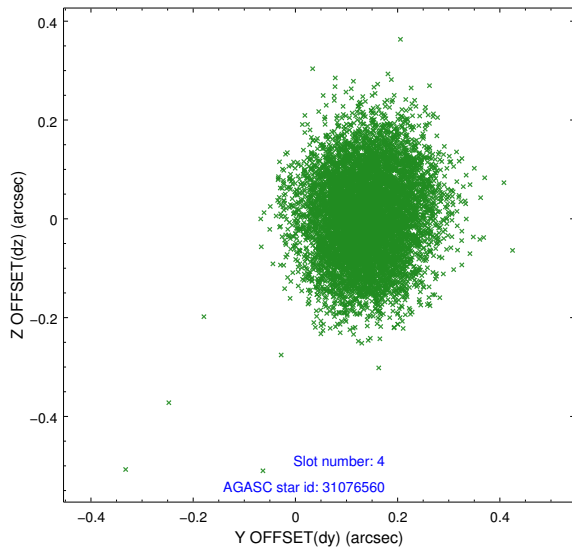
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	3946	-0.107	-0.111	0.018	0.028	0.000000	0.000000	-763.48	-841.93
1	FID	ACIS-I-4	7.18	3947	0.230	0.092	0.015	0.025	0.000000	0.000000	2150.82	1064.27
2	FID	ACIS-I-5	7.22	3947	-0.223	0.087	0.015	0.023	0.000000	0.000000	-1817.05	1062.47
3	GUIDE	31075128	9.32	7887	0.032	-0.142	0.111	0.170	149.584516	2.364347	-648.72	746.66
4	GUIDE	31076560	9.67	7883	0.137	0.005	0.115	0.181	149.884782	2.009277	-1439.72	-728.23
5	GUIDE	31463496	9.47	7837	-0.082	-0.178	0.091	0.150	149.845020	2.964001	1702.99	670.26
6	GUIDE	31983336	8.60	7894	0.036	0.225	0.074	0.120	150.429924	2.291234	226.92	-2176.99
7	GUIDE	32375384	9.97	7884	-0.129	0.092	0.128	0.211	150.238117	2.622063	1079.41	-1096.92

## 2.4 Star Slots

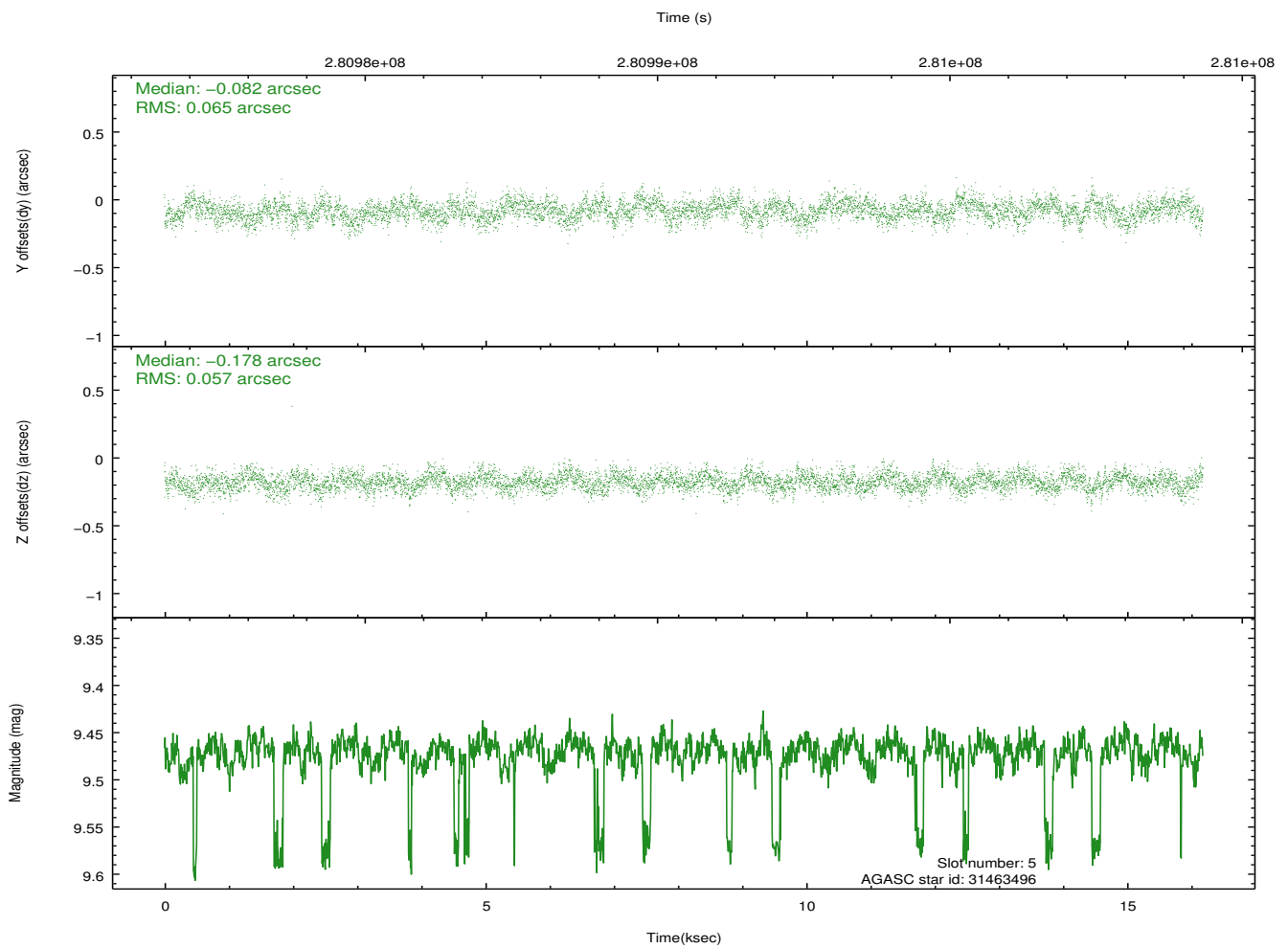
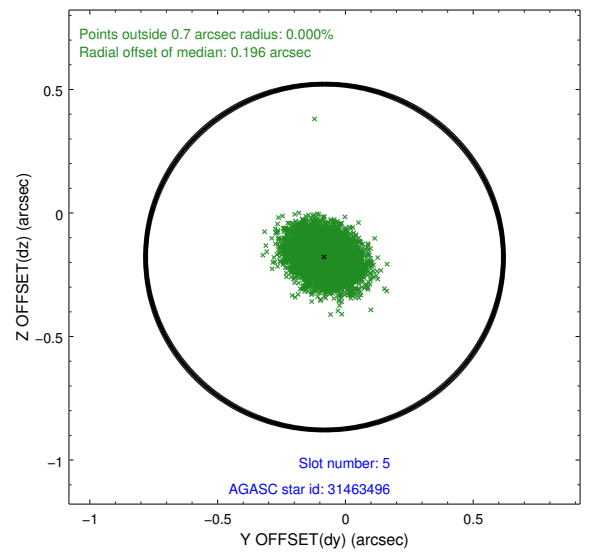
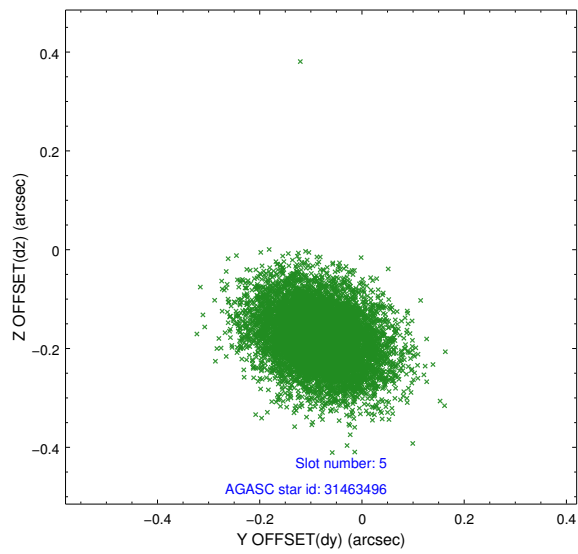
### 2.4.1 Slot 3



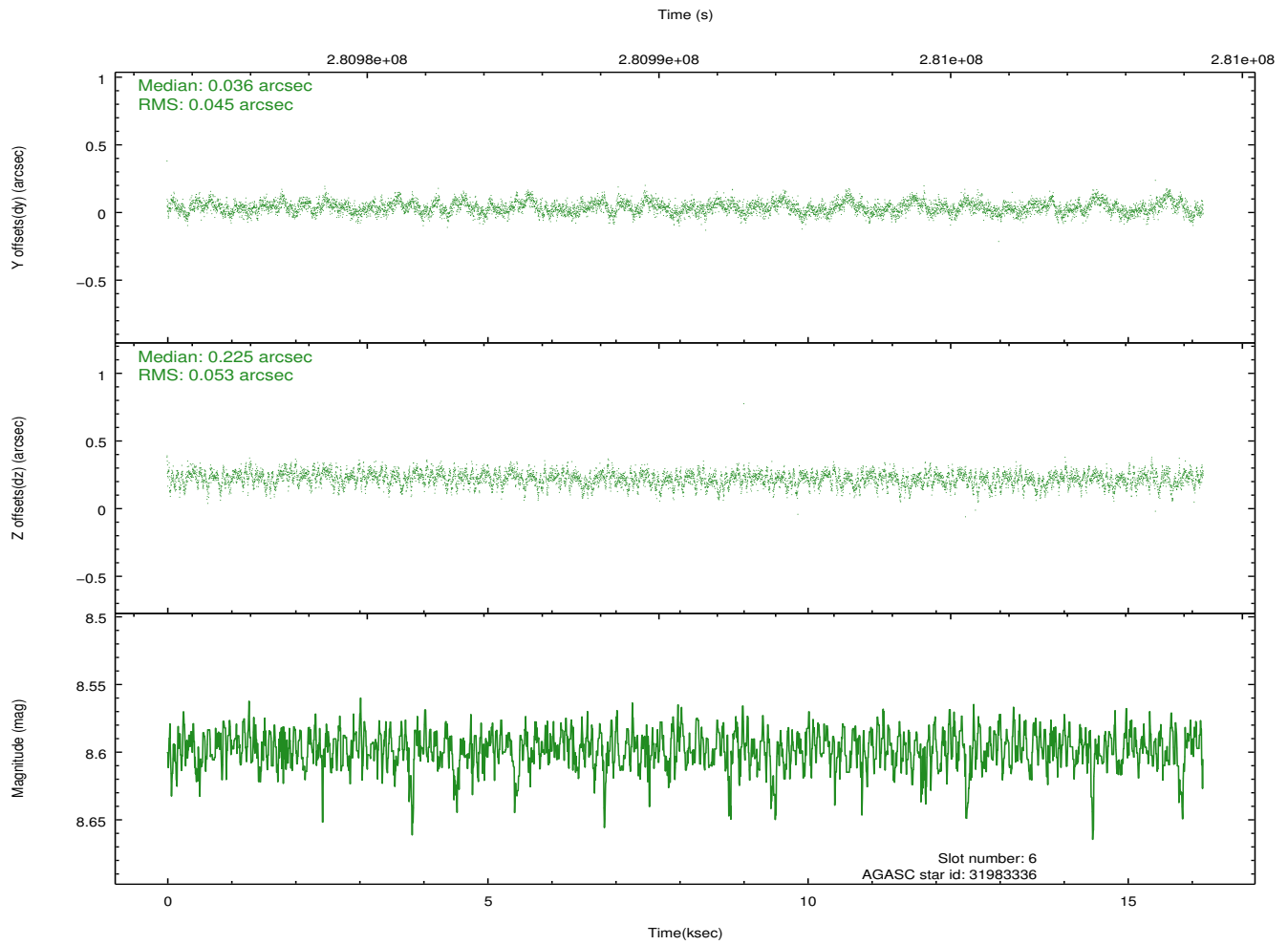
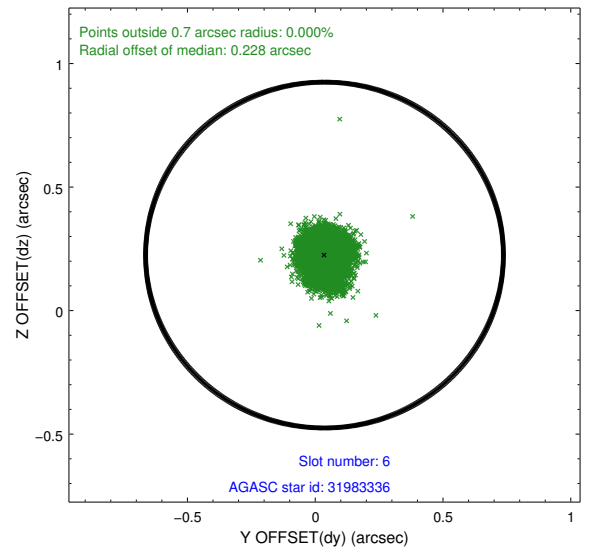
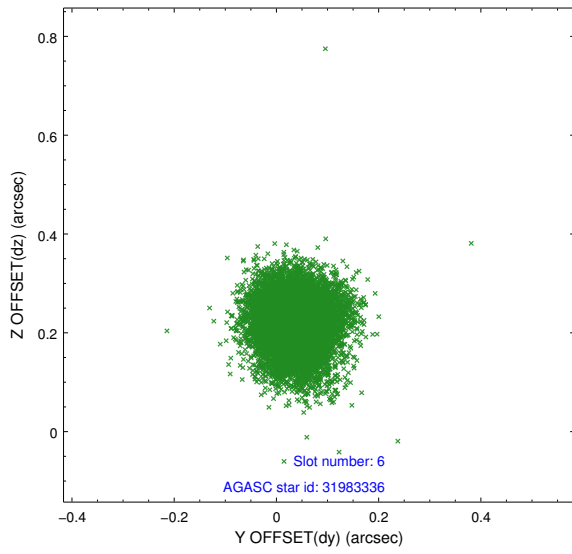
### 2.4.2 Slot 4



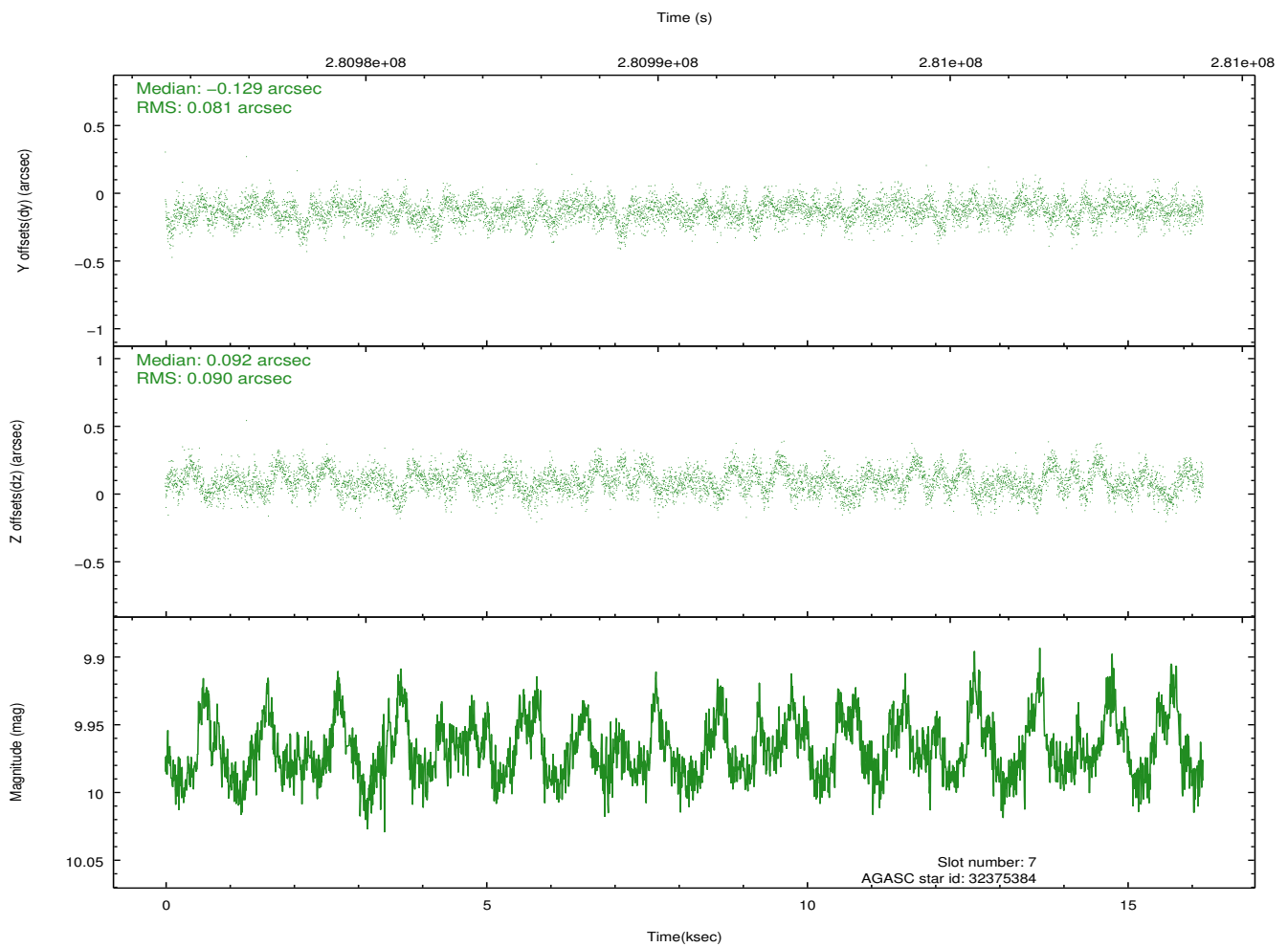
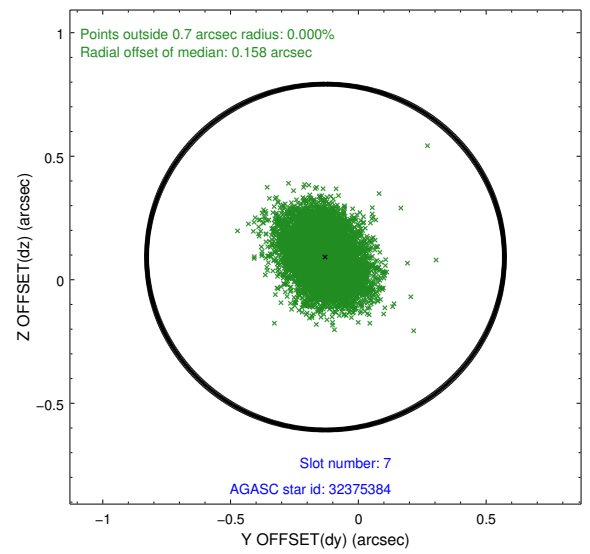
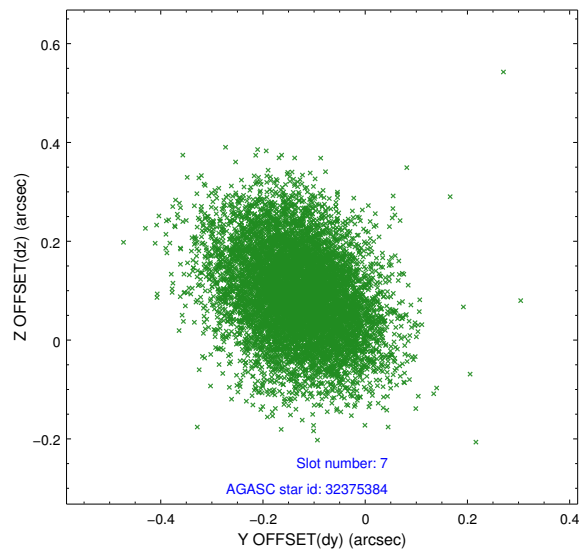
### 2.4.3 Slot 5



## 2.4.4 Slot 6

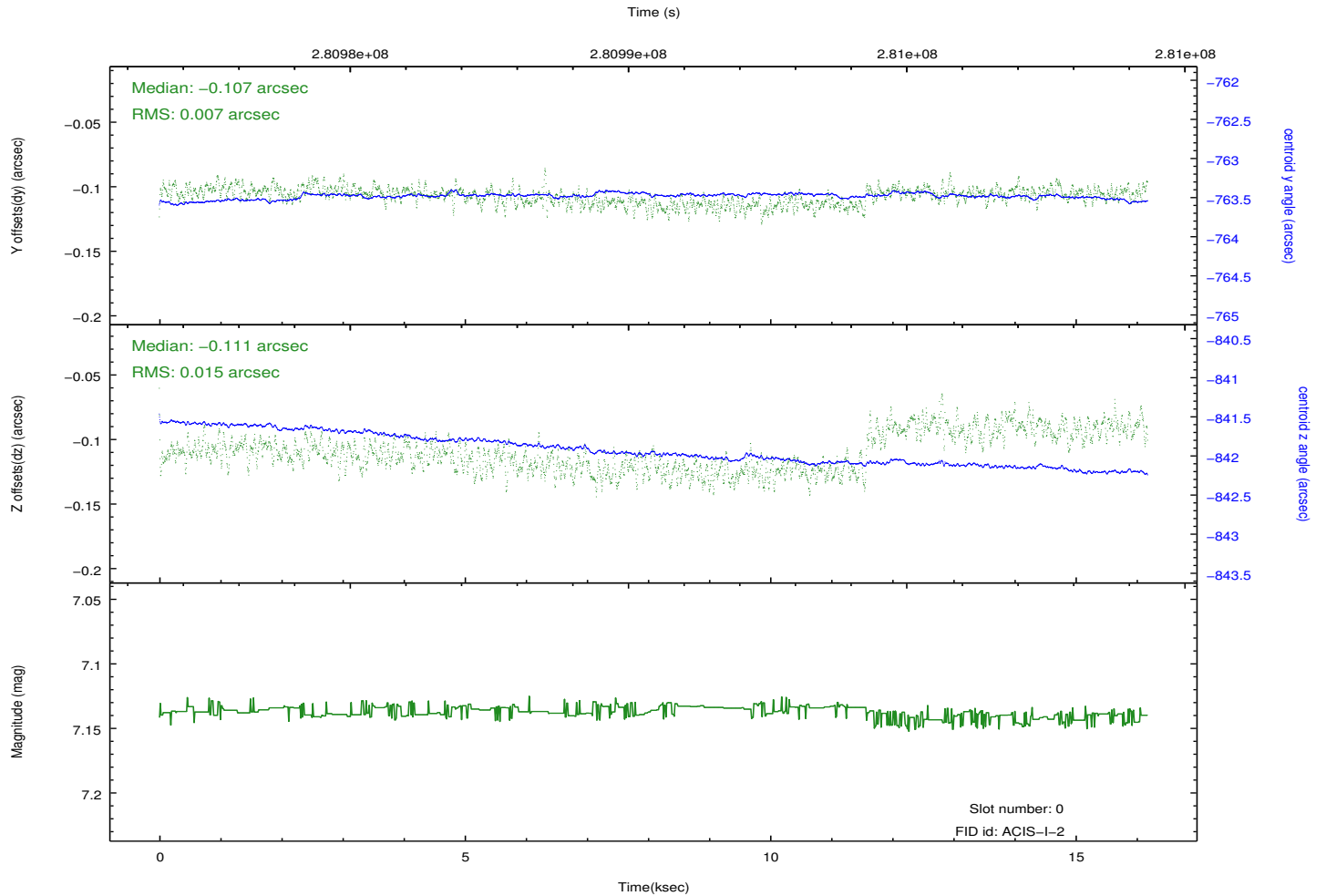
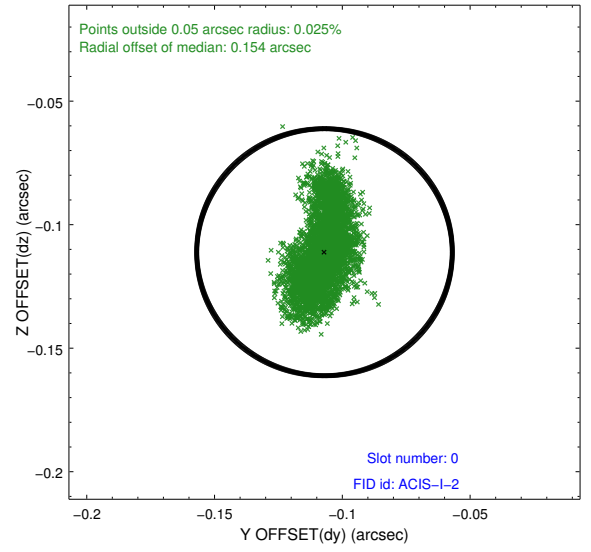
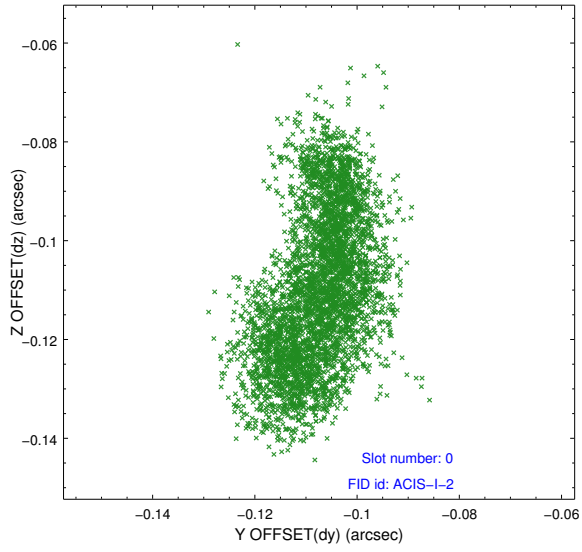


## 2.4.5 Slot 7

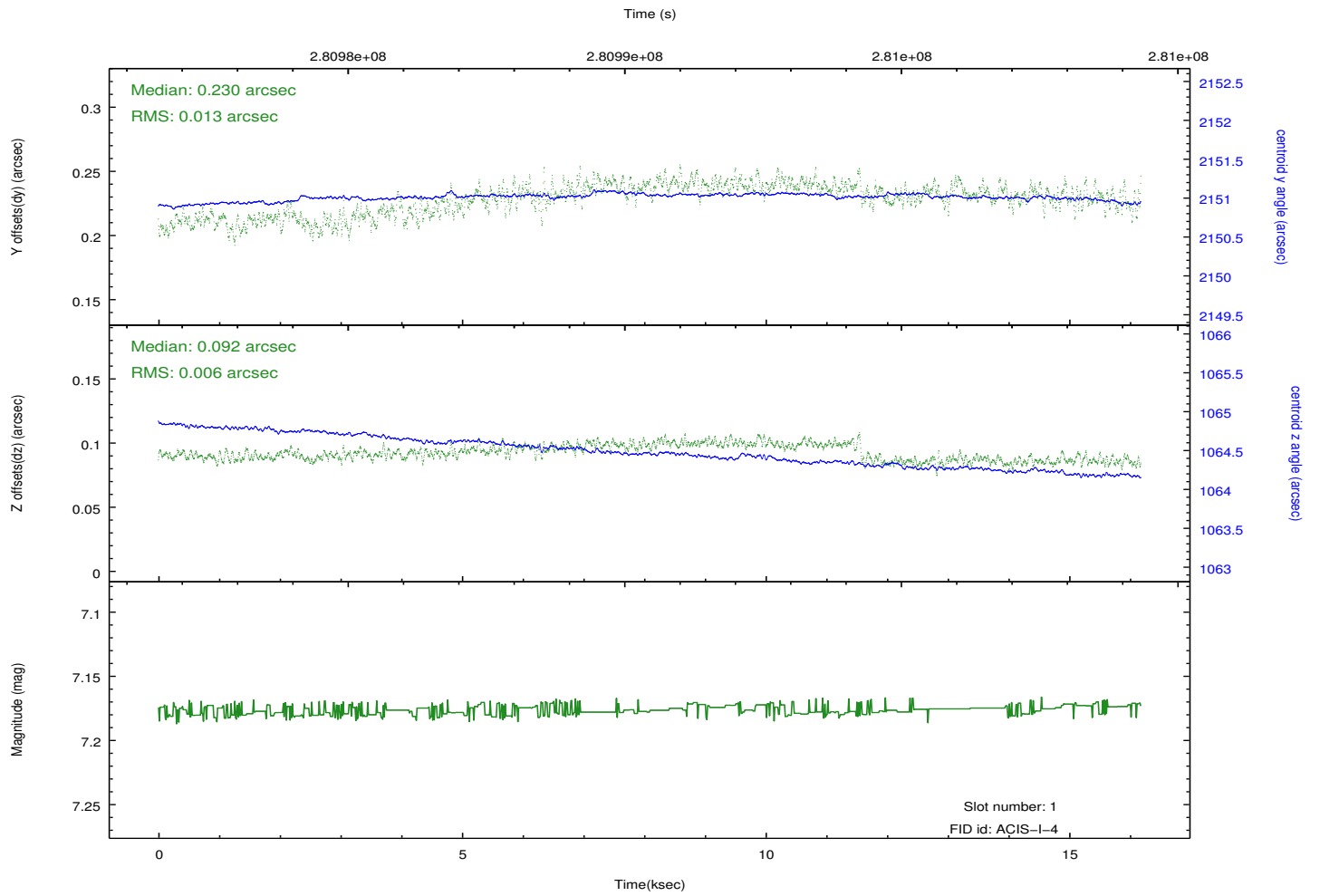
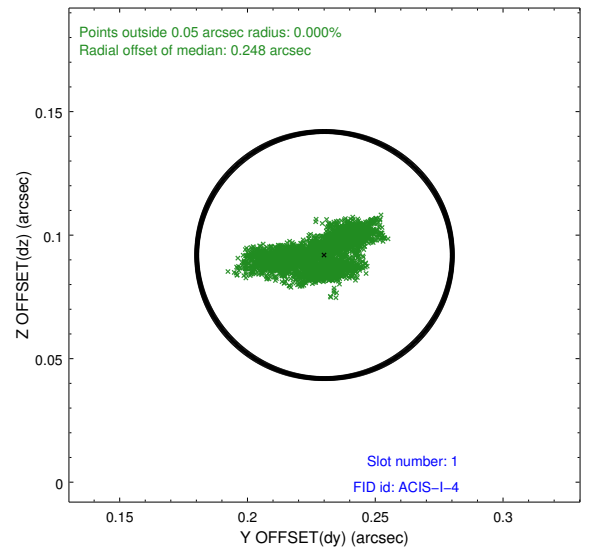
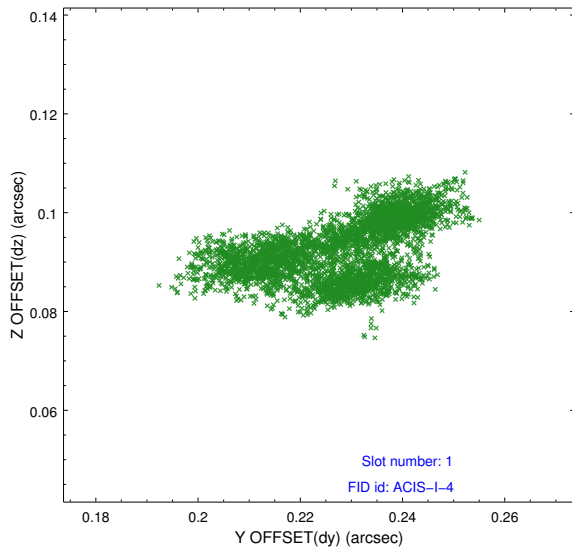


## 2.5 FID Slots

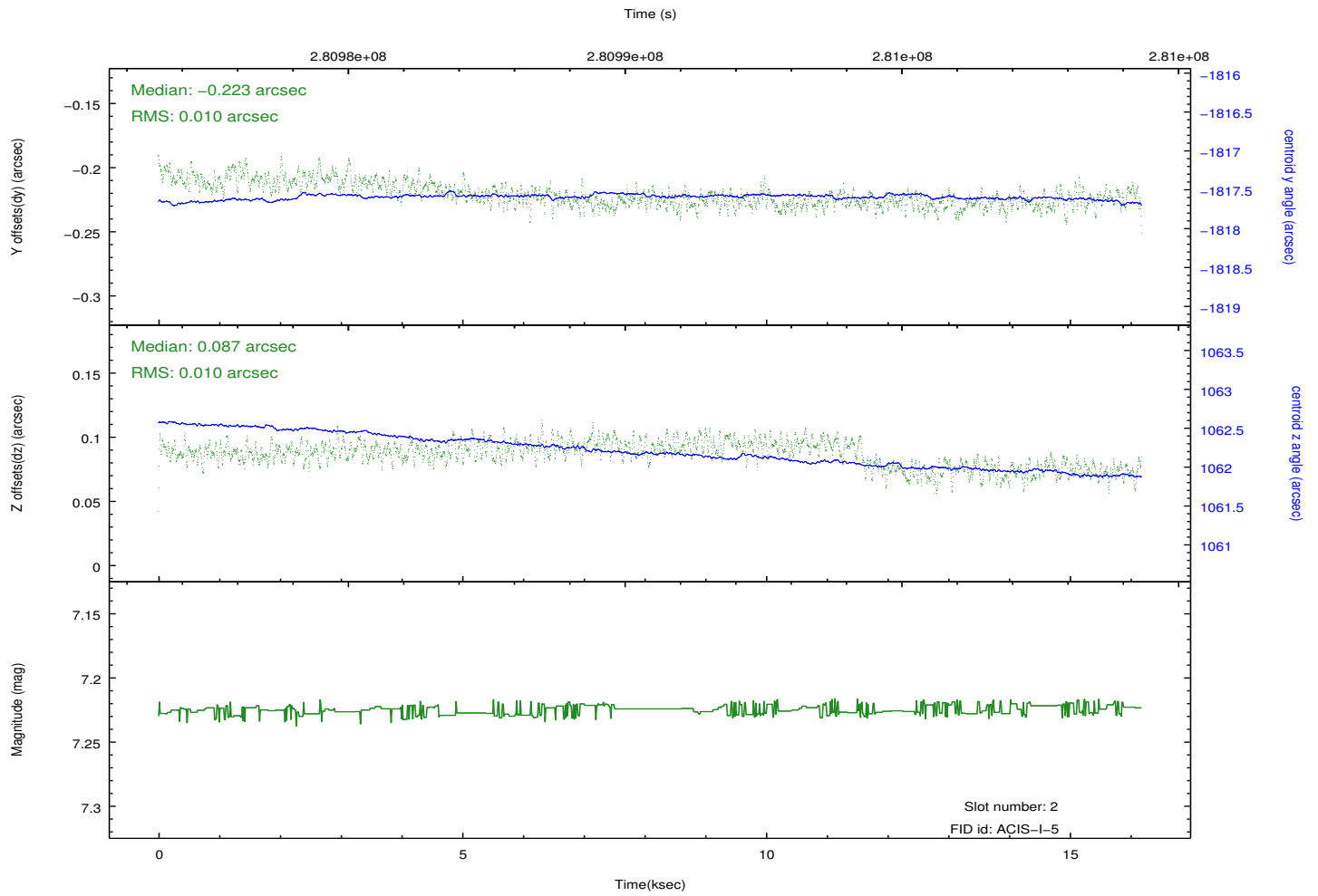
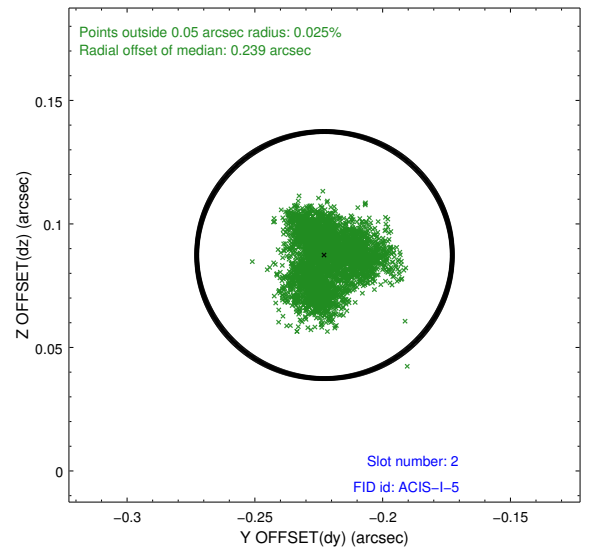
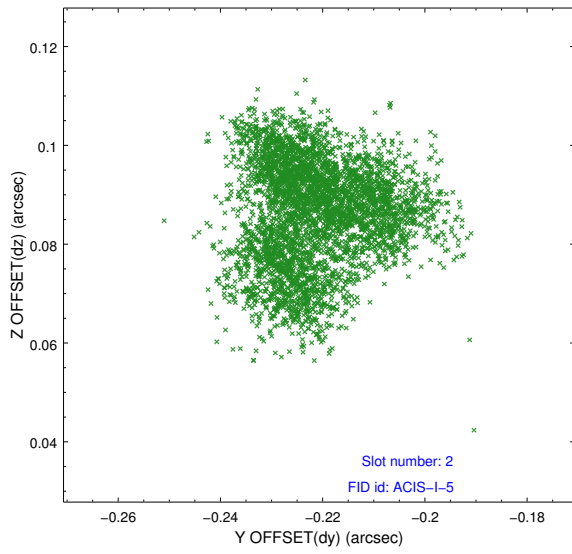
### 2.5.1 Slot 0



## 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)	2012.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.9295999

## A.2 Comments