

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8267 - L2 Version 3  
Chandra X-Ray Center

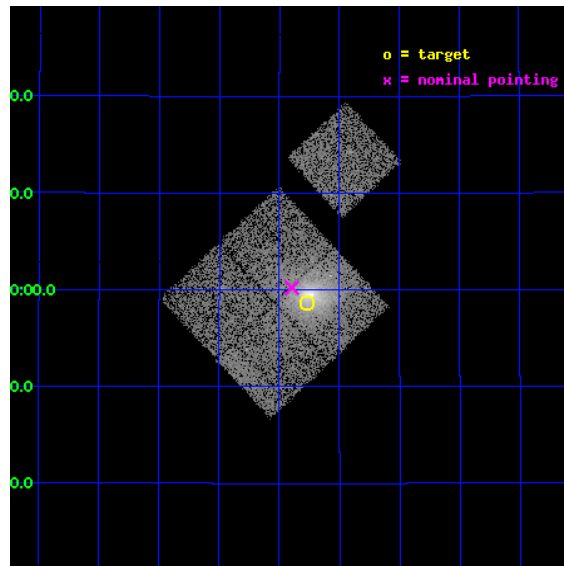
L2 Processing Date : Apr 19 2012

## 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

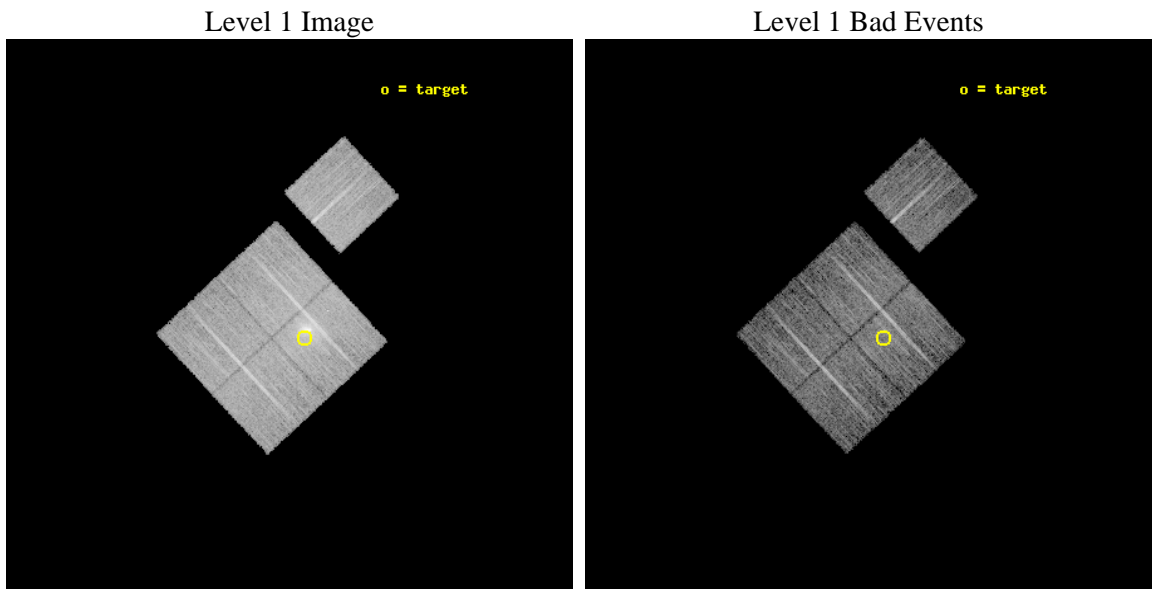
seq_num	800662	Sequence number
obs_id	8267	Observation id
title	Chandra observations of flux-limited sample of low-redshift galaxy clusters - A	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	ZwCl1742	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.066667	Observer's specified target RA [deg]
dec_targ	32.977222	Observer's specified target Dec [deg]
ra_nom	266.0988953301	Nominal RA [deg]
dec_nom	33.003525337524	Nominal Dec [deg]
roll_nom	47.034537171512	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8146.7591023445	Sum of GTIs [s]
livetime	8040.3156971156	Livetime [s]
ontime0	8149.9000626802	Sum of GTIs [s]
ontime1	8149.9000626802	Sum of GTIs [s]
ontime2	8149.9000626802	Sum of GTIs [s]
ontime3	8146.7591023445	Sum of GTIs [s]
ontime6	8149.9000626802	Sum of GTIs [s]
l2events	45762	Number of level 2 events



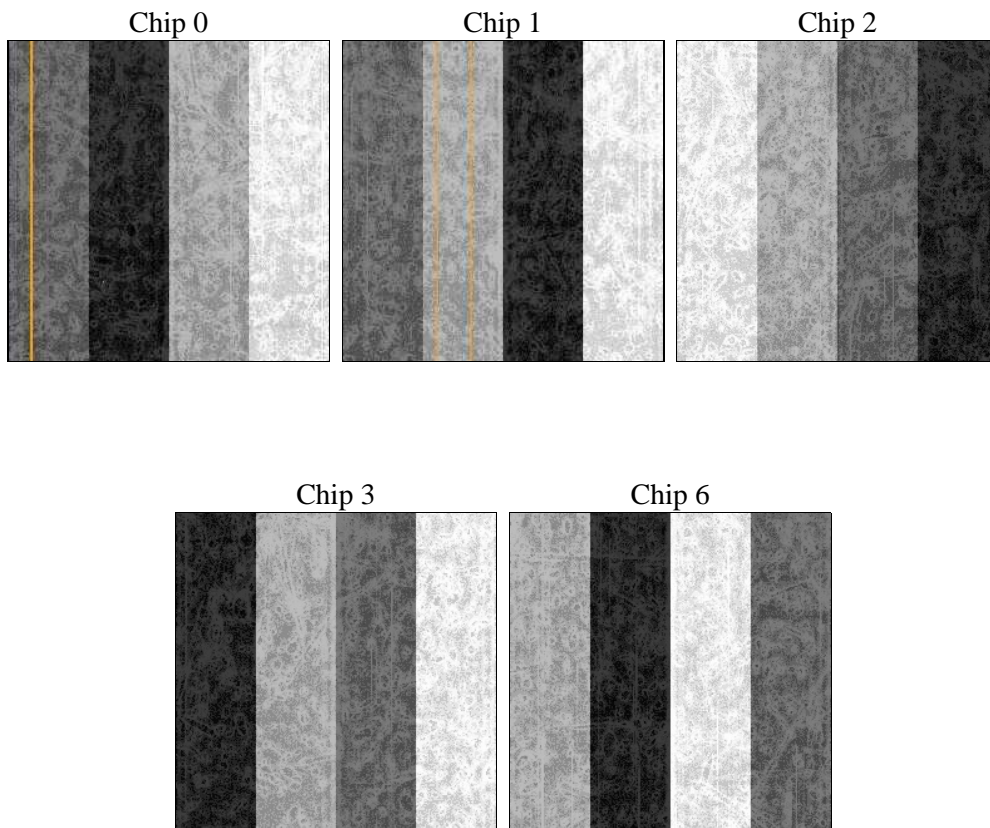
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8146.7591023445	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	8149.9000626802	Sum of GTIs [s]
date	2012-04-19T02:38:15	Date and time of file creation	ontime1	8149.9000626802	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8149.9000626802	Sum of GTIs [s]
			ontime3	8146.7591023445	Sum of GTIs [s]
			ontime6	8149.9000626802	Sum of GTIs [s]
			l1events	359910	Number of level 1 events

### 2.1.4 Events

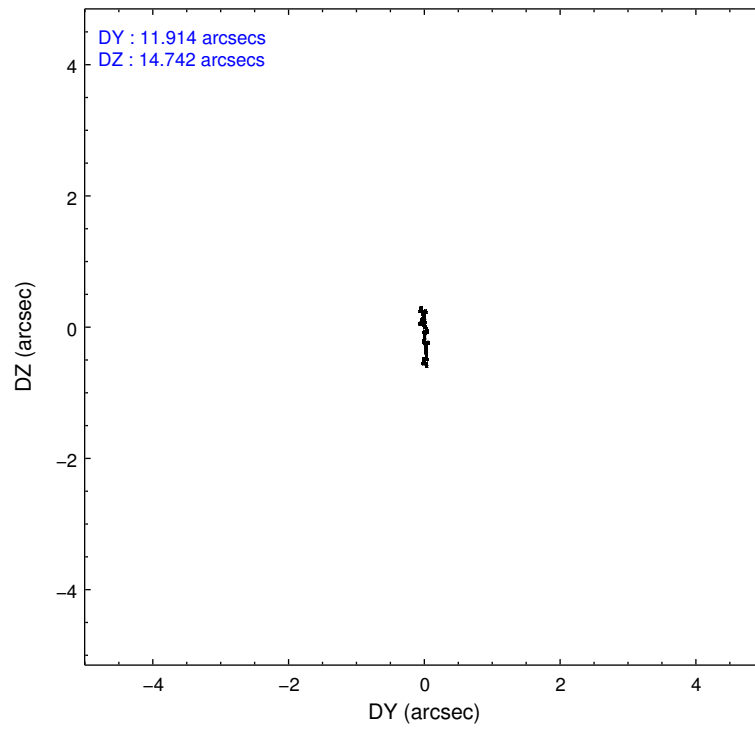
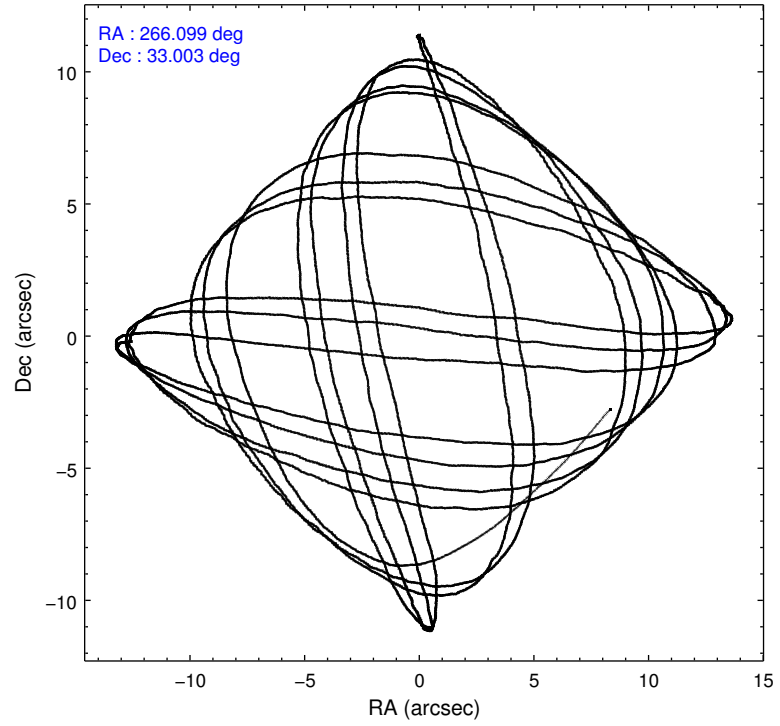
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	63125	64646	73536	90154	68449
rejected events	56441	56809	65683	66871	61845
rejected %	89%	87%	89%	74%	90%

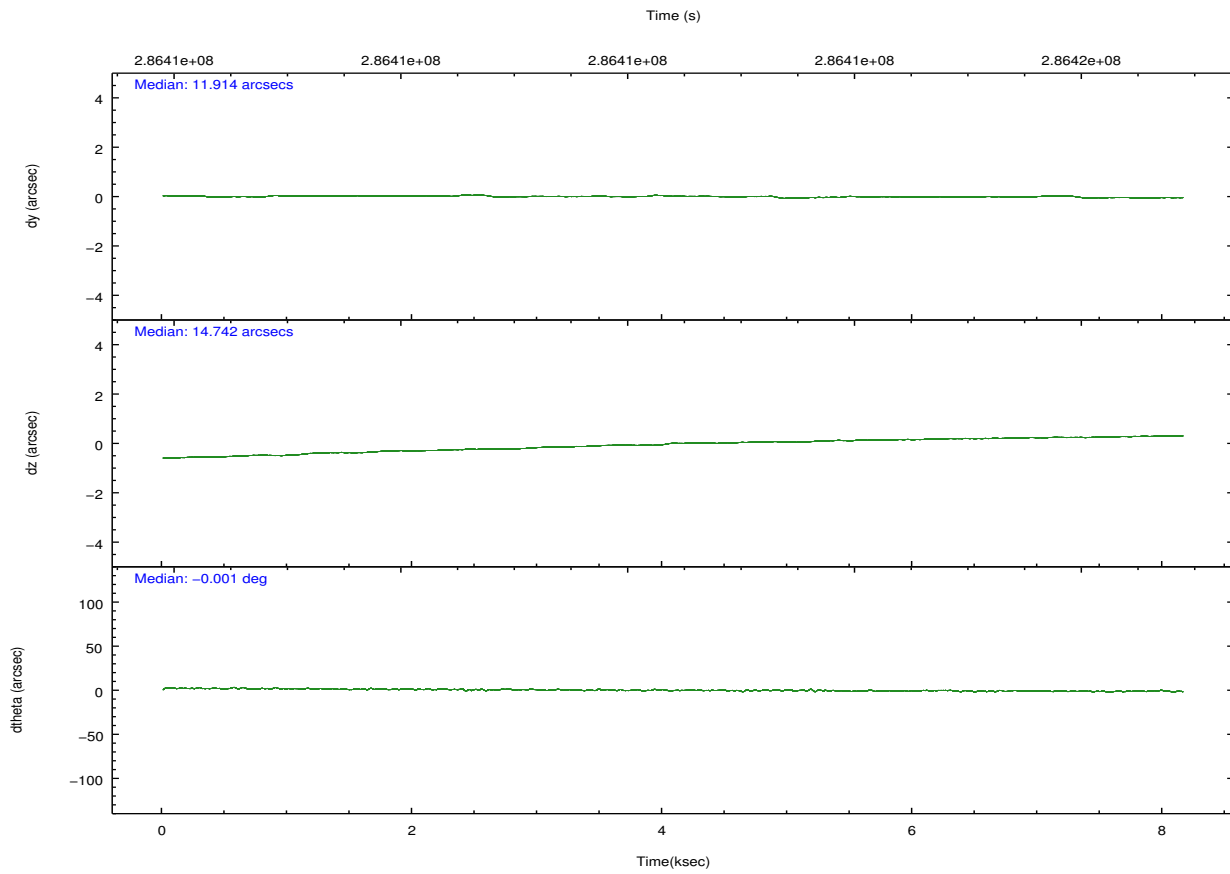
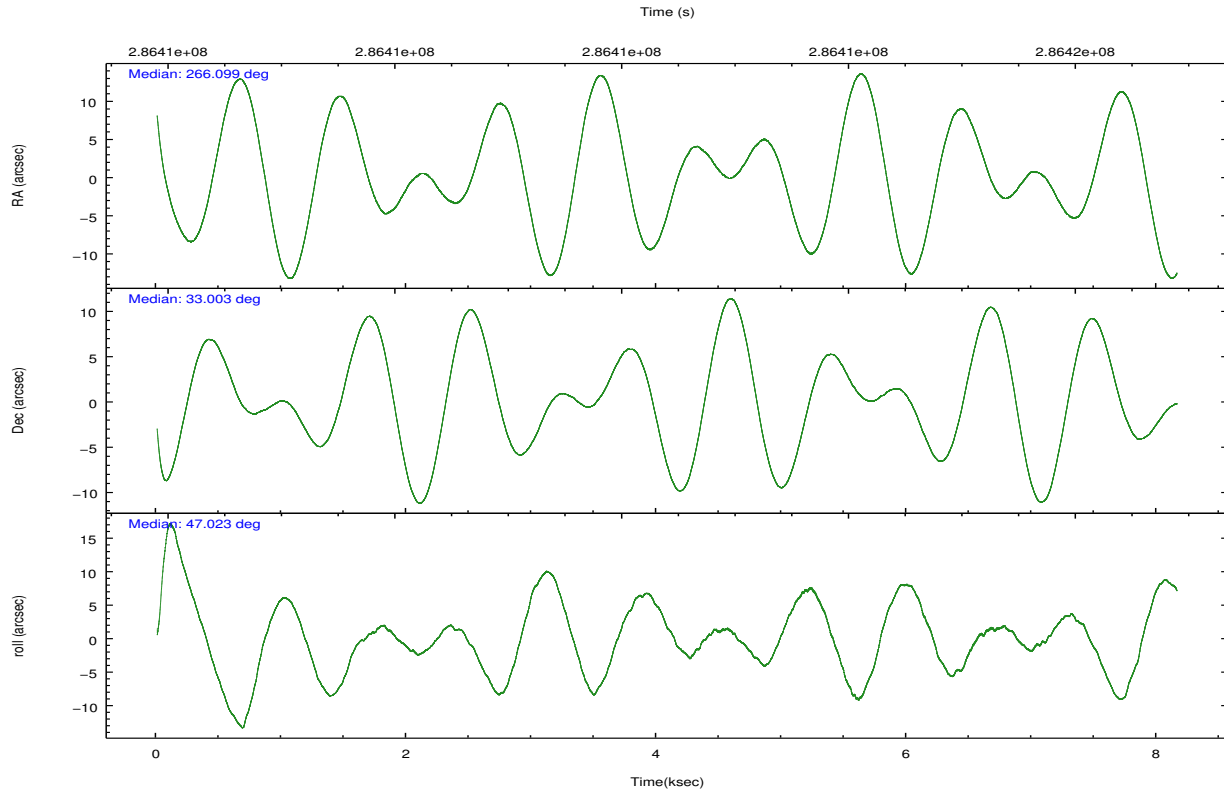
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2679	3325	3692	16839	2474
	4%	5%	5%	18%	3%
grade 1 events	43	35	40	153	28
	0%	0%	0%	0%	0%
grade 2 events	1557	1750	1760	3026	1470
	2%	2%	2%	3%	2%
grade 3 events	717	826	780	1223	786
	1%	1%	1%	1%	1%
grade 4 events	711	829	772	1197	799
	1%	1%	1%	1%	1%
grade 5 events	2299	2539	2292	2817	2753
	3%	3%	3%	3%	4%
grade 6 events	1307	1457	1276	1618	1448
	2%	2%	1%	1%	2%
grade 7 events	53812	53885	62924	63281	58691
	85%	83%	85%	70%	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	266.091707	266.0988953300969	Subarray requested	NONE	NONE
[deg] Pointing Dec	32.976717	33.00352533752429	Alternating exposures requested	N	N
[deg] Pointing Roll	46.829785	47.03453717151153	[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	-228.592463	-228.5990329025337			
[mm] SIM translation stage offset	-5	-4.993420100396037			
[s] Observation start time (MET)	286408490.184000	286407306.86932			
Observation start date	2007-01-28T21:53:45	2007-01-28T21:35:06			
[s] Observation end time (MET)	286416490.184000	286416860.89477			
Observation end date	2007-01-29T00:07:05	2007-01-29T00:14:20			
Read mode	TIMED	TIMED			

## 2.3 Aspect



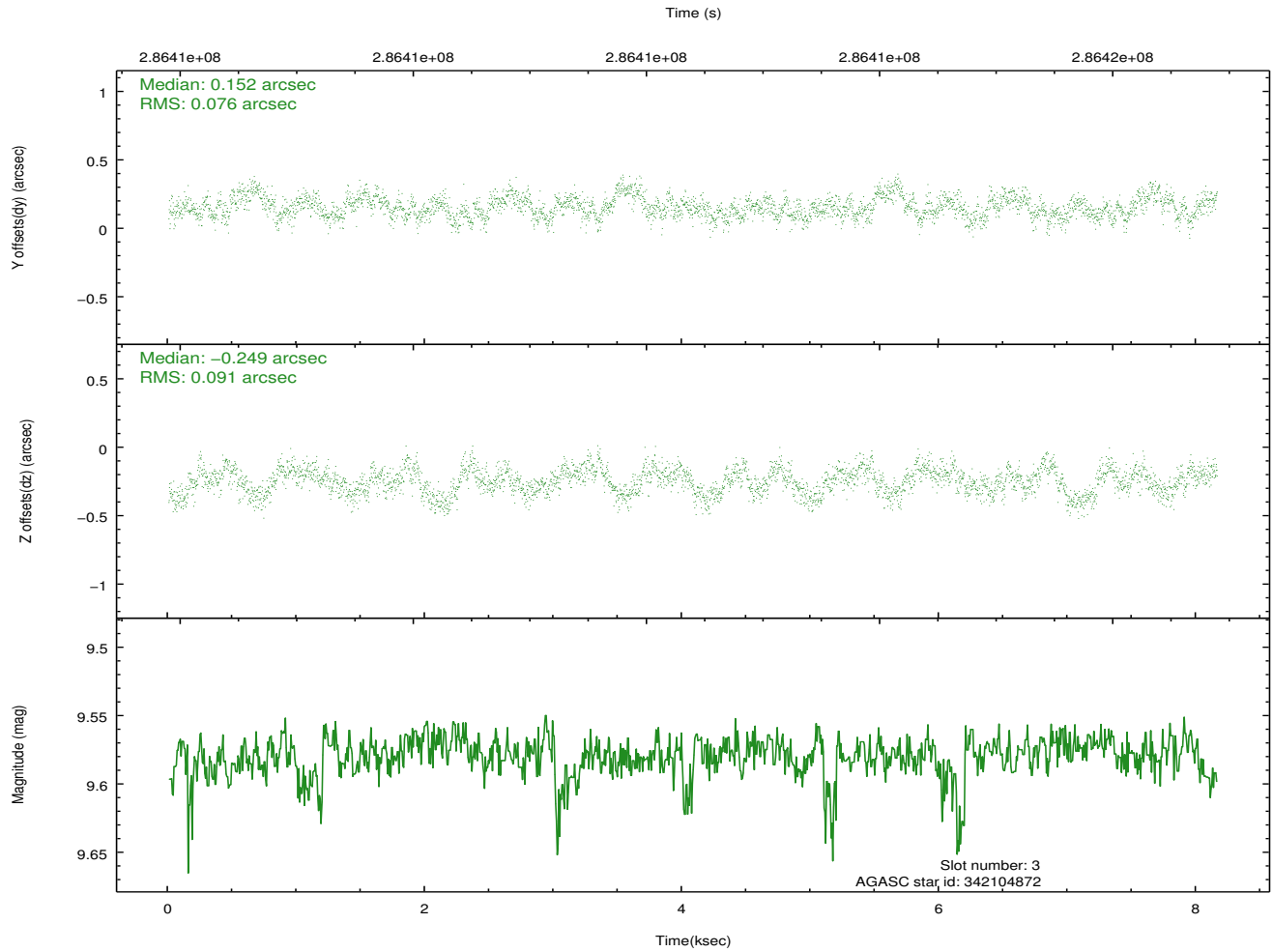
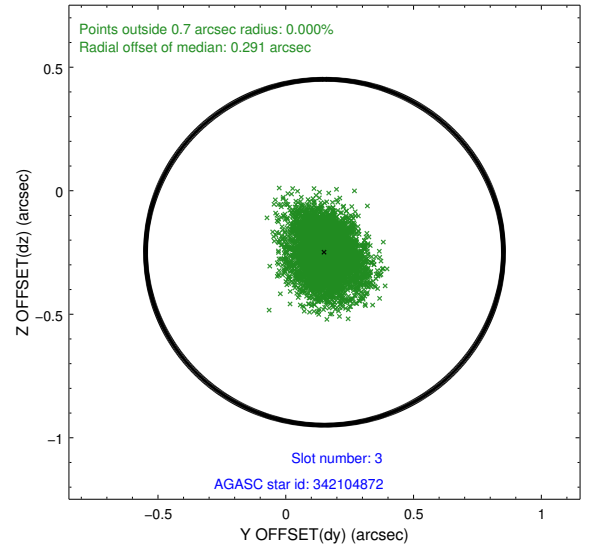
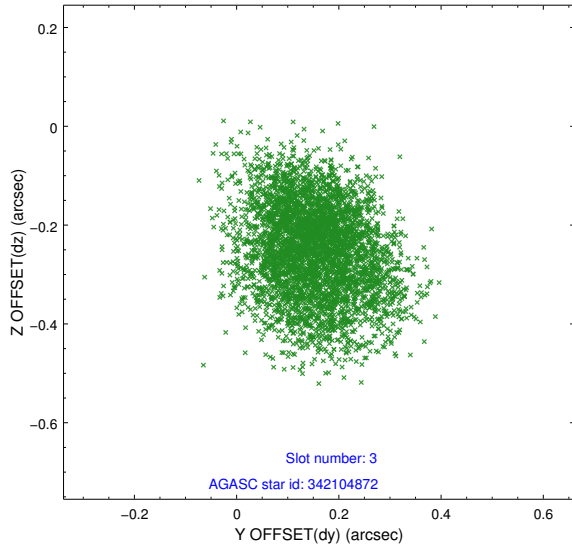


### Slot Statistics

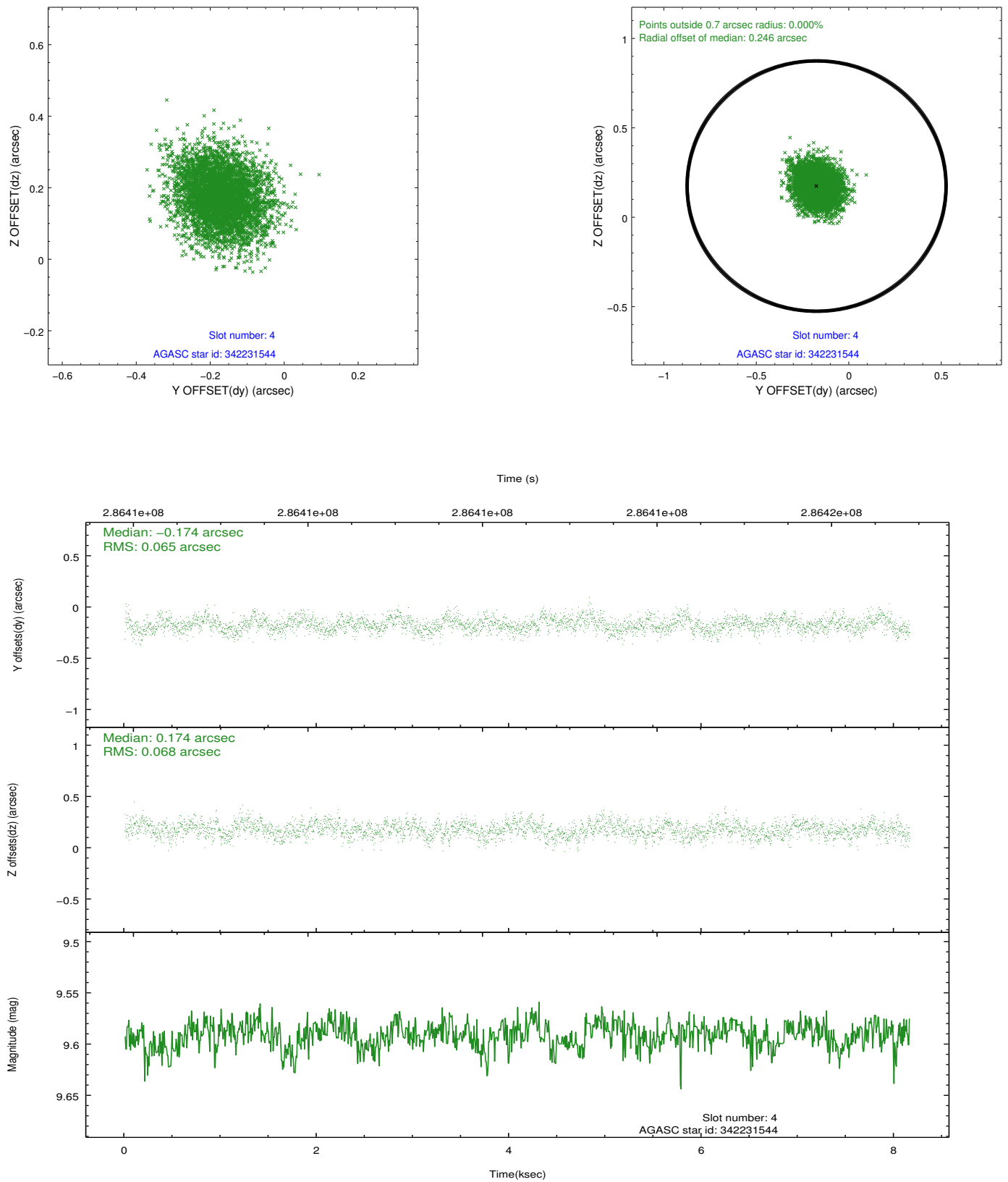
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	1990	0.105	-0.057	0.013	0.022	0.000000	0.000000	927.63	-940.80
1	FID	ACIS-I-5	7.22	1990	-0.250	0.097	0.009	0.014	0.000000	0.000000	-1820.43	956.48
2	FID	ACIS-I-6	7.24	1990	0.053	0.032	0.010	0.015	0.000000	0.000000	392.41	1601.67
3	GUIDE	342104872	9.58	3970	0.152	-0.249	0.128	0.202	265.449151	33.297364	-476.62	2203.59
4	GUIDE	342231544	9.59	3979	-0.174	0.174	0.101	0.162	266.884729	32.820417	1238.13	-2127.46
5	GUIDE	342234200	9.20	3977	-0.060	-0.129	0.081	0.128	265.645499	32.905710	-1106.65	809.80
6	GUIDE	342239504	9.33	3979	0.060	0.143	0.102	0.167	266.456389	32.826546	362.22	-1172.85
7	GUIDE	342239632	9.59	3966	0.018	0.064	0.112	0.184	266.572898	32.738712	375.15	-1646.91

## 2.4 Star Slots

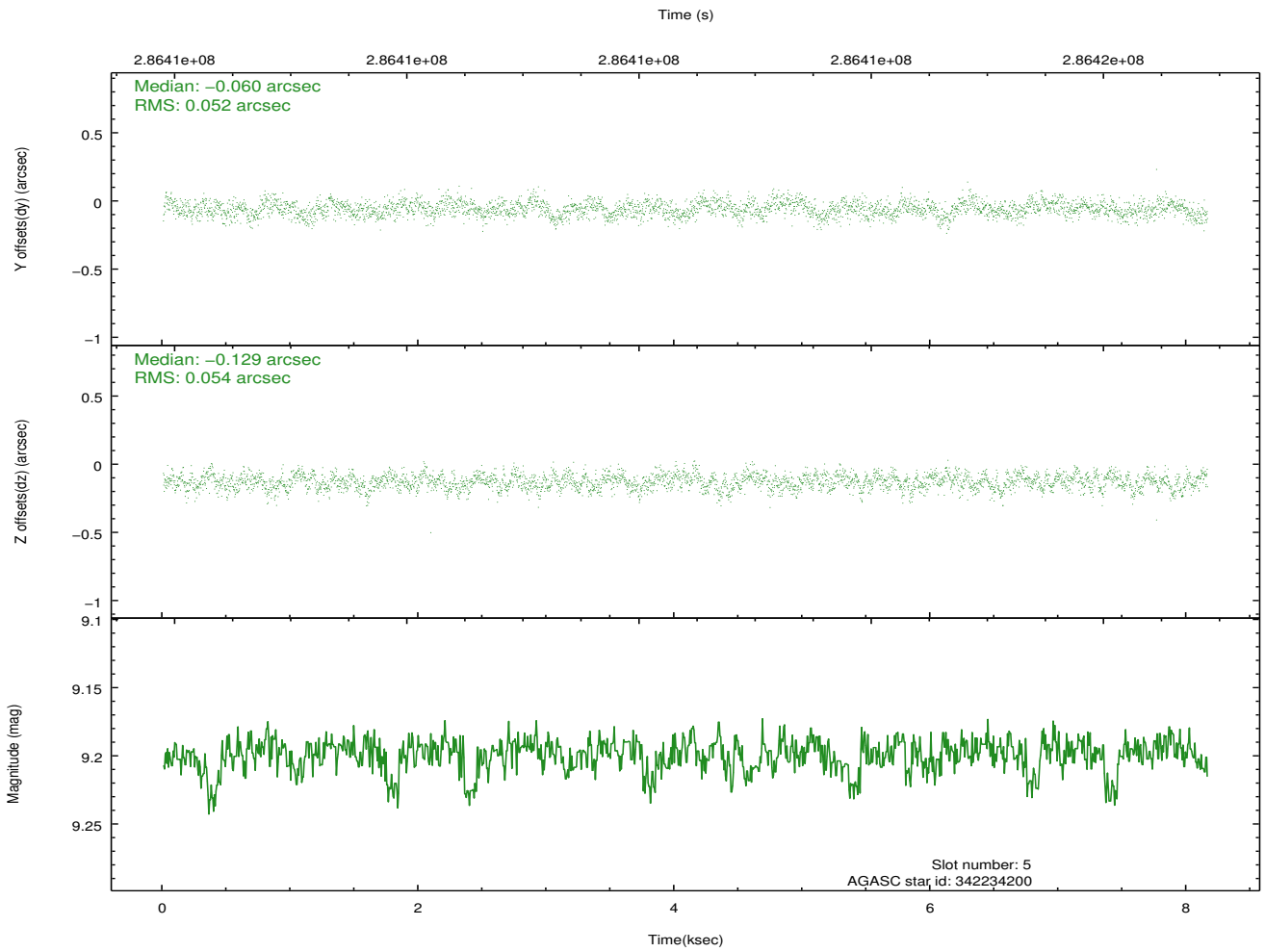
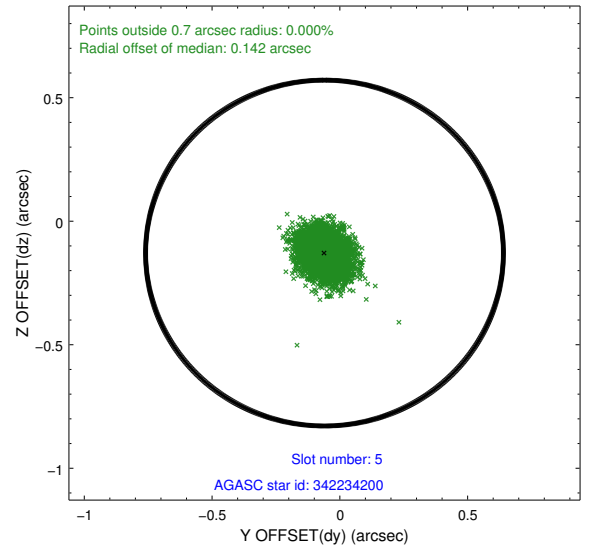
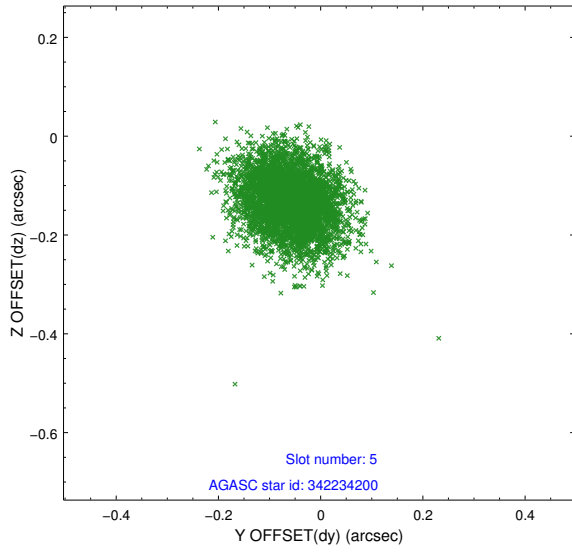
### 2.4.1 Slot 3



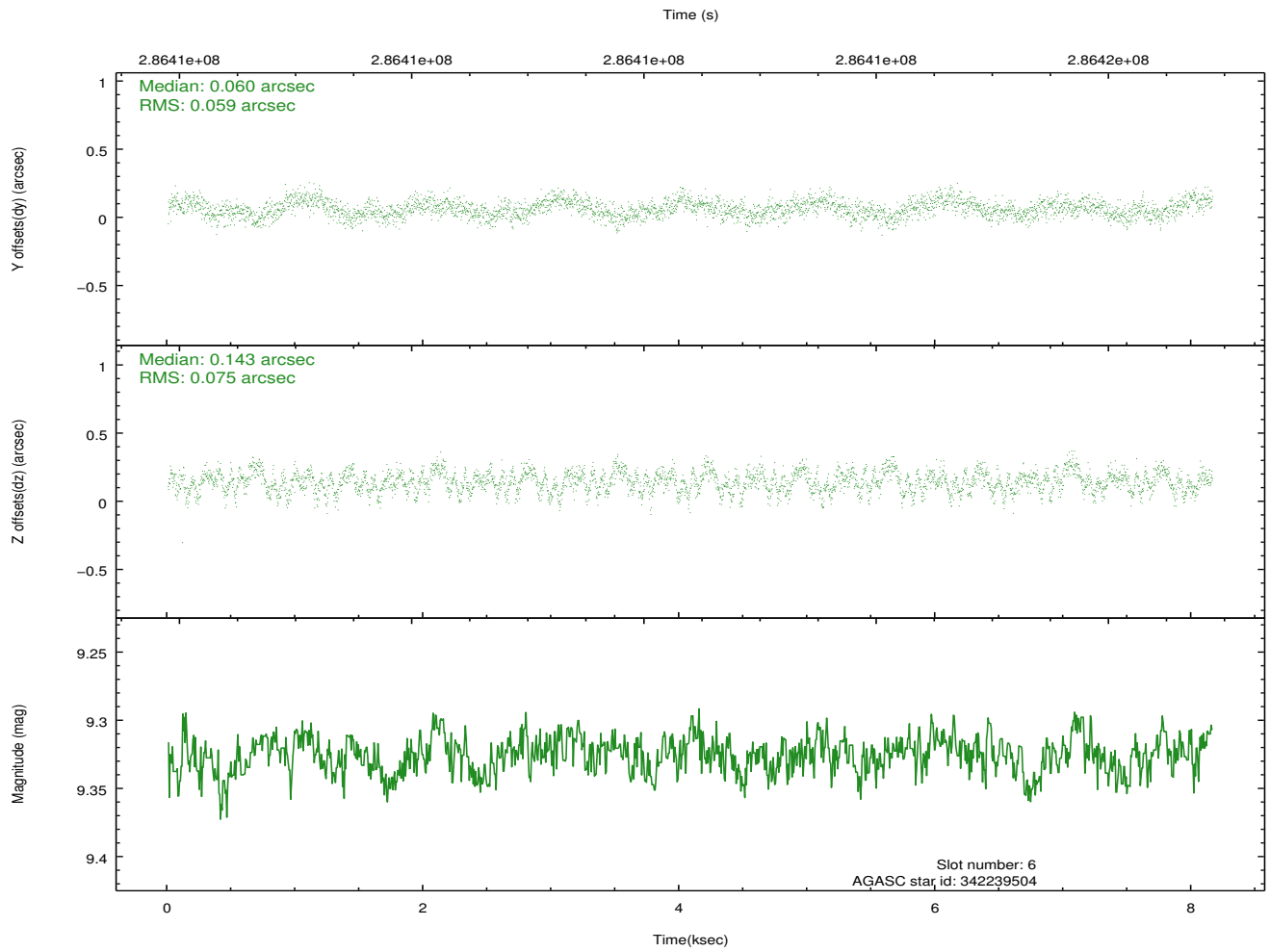
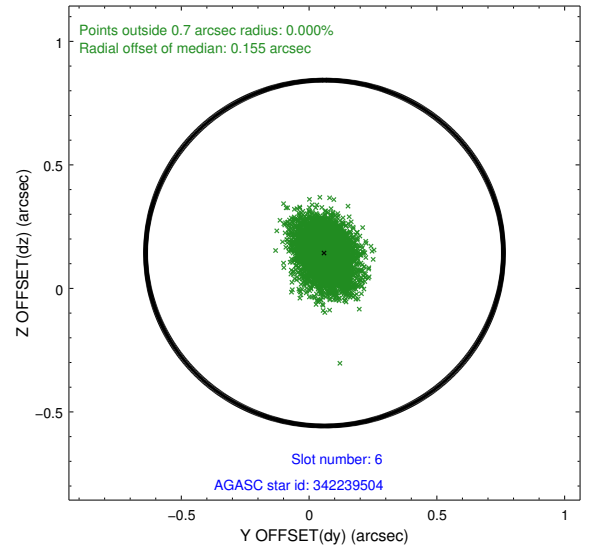
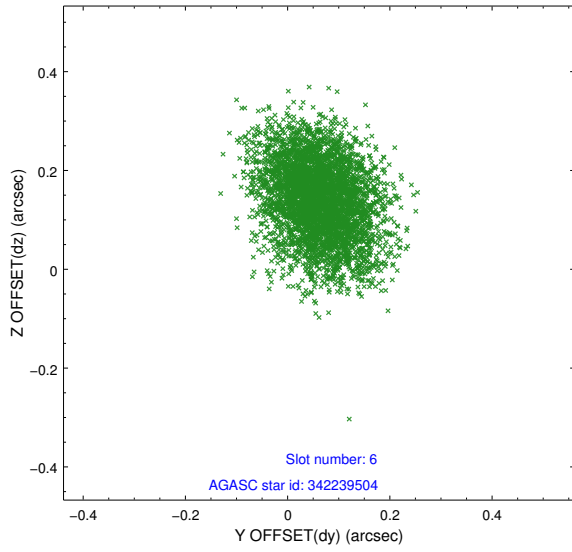
## 2.4.2 Slot 4



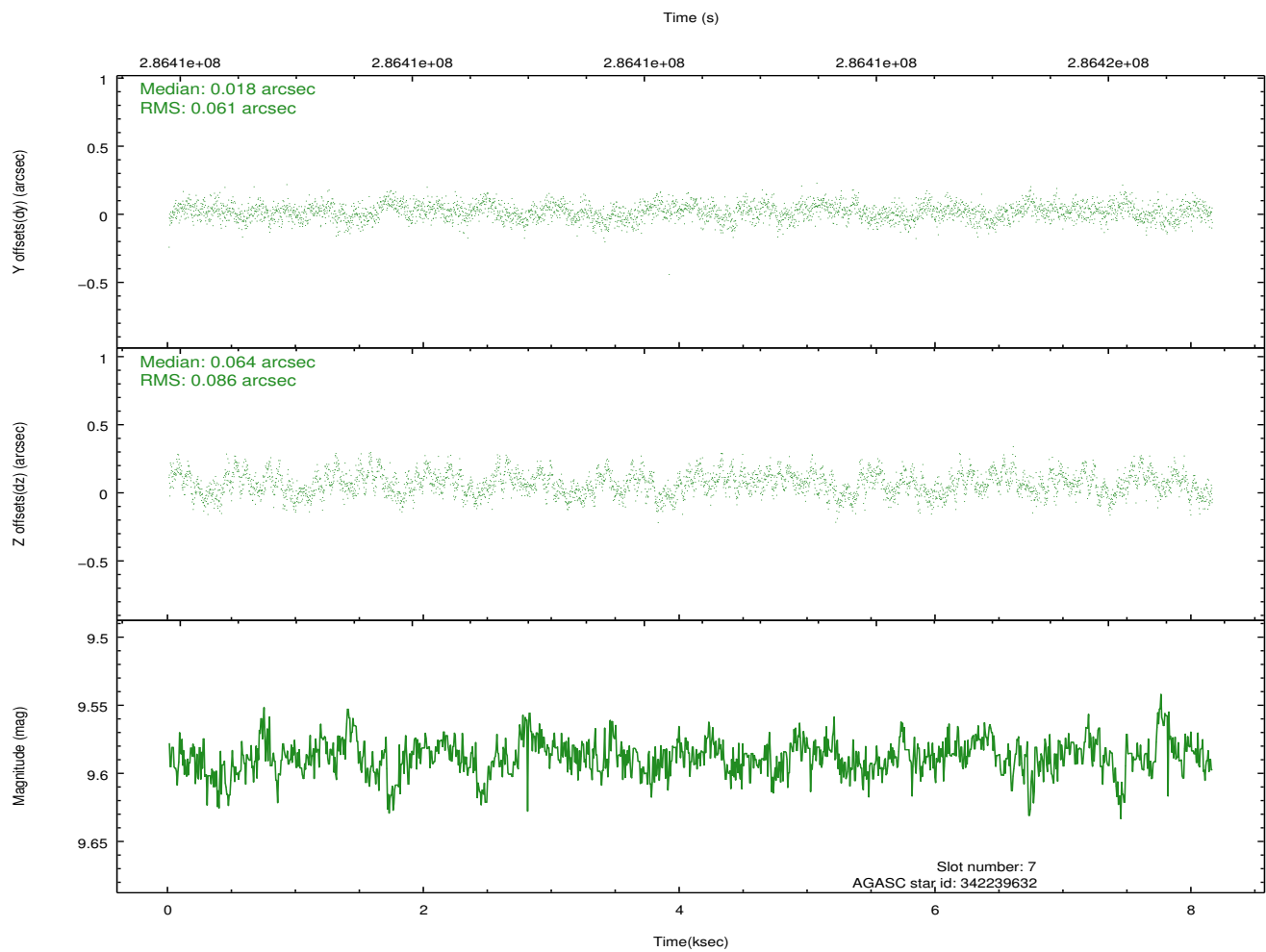
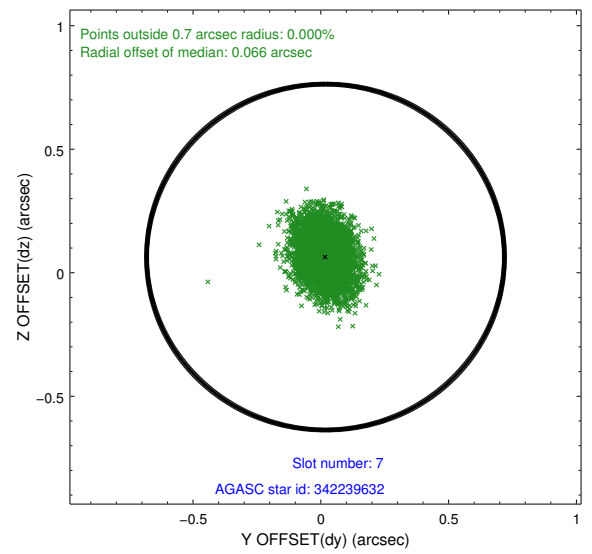
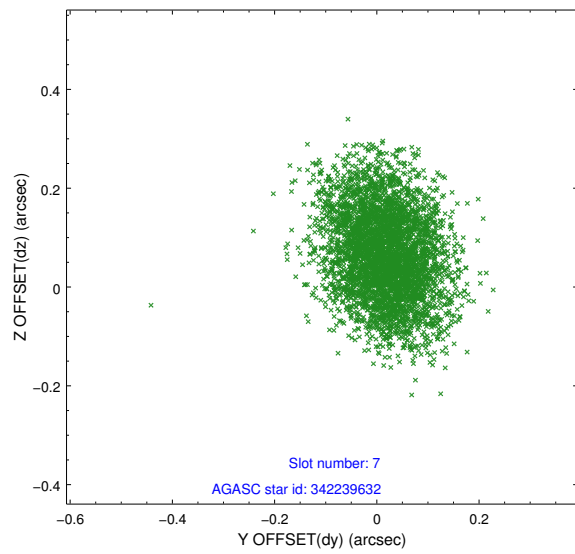
### 2.4.3 Slot 5



### 2.4.4 Slot 6

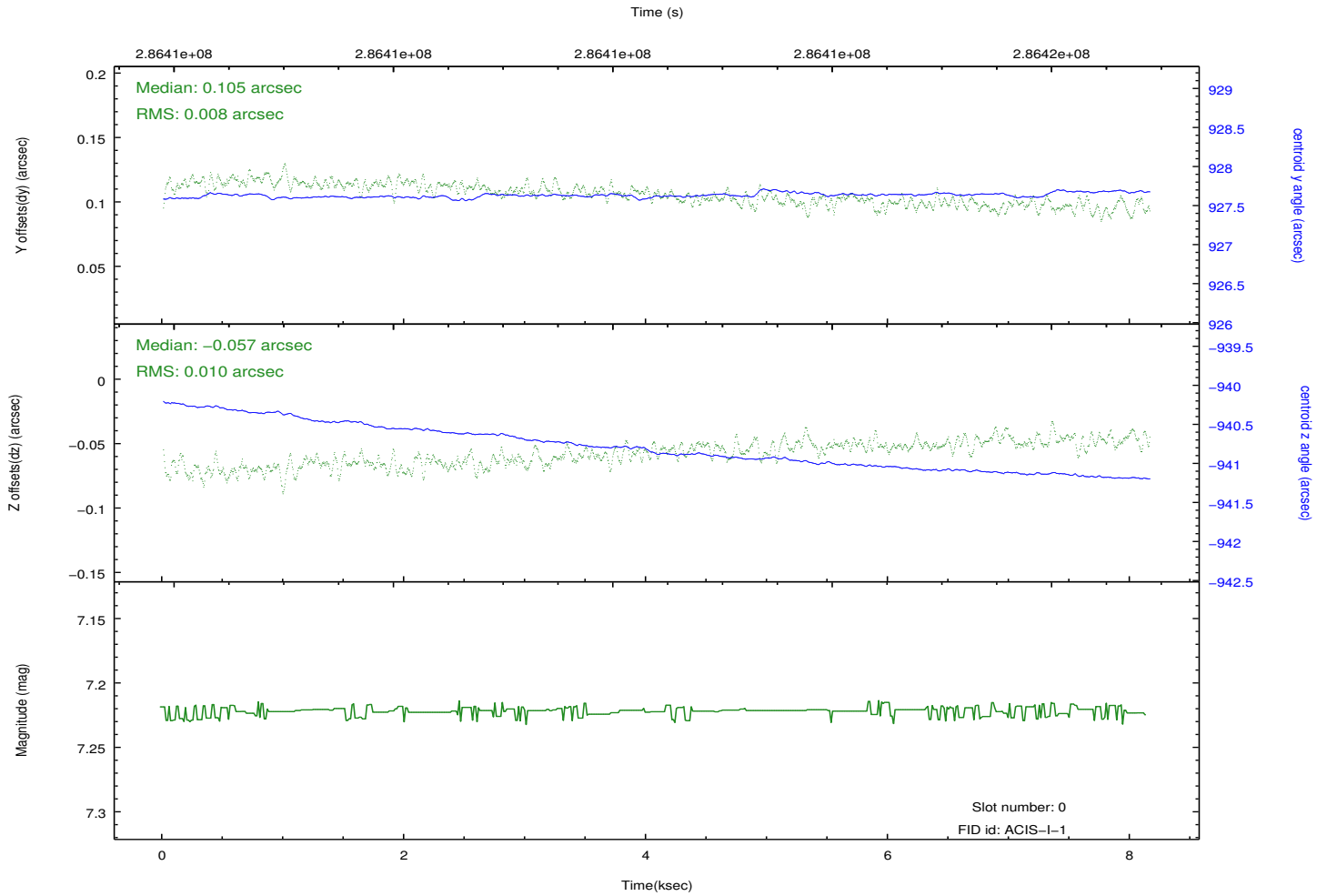
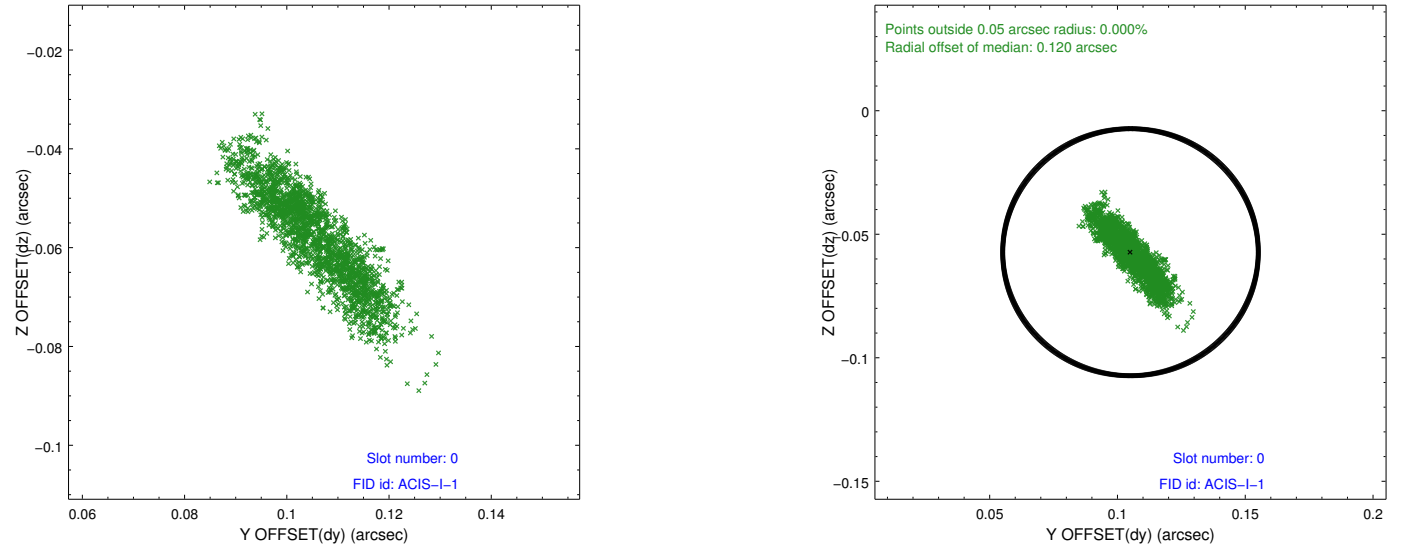


## 2.4.5 Slot 7

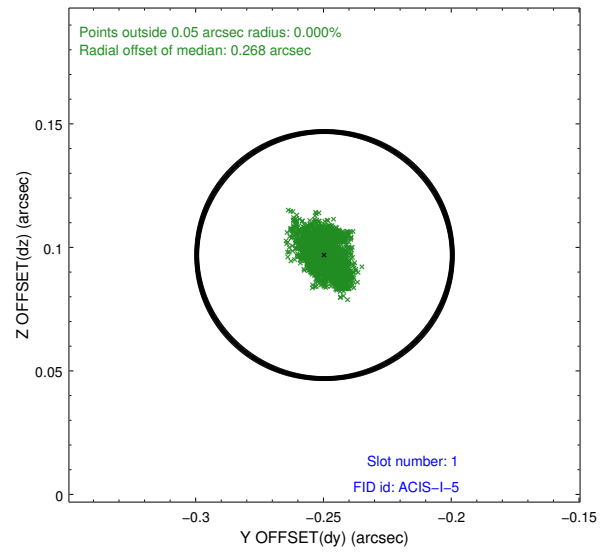
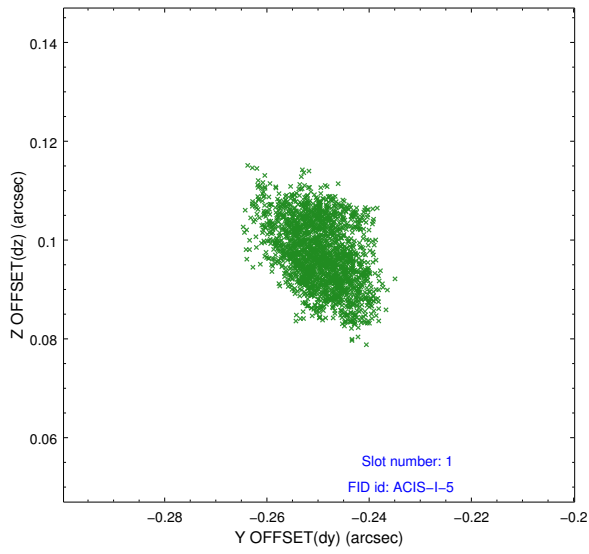


## 2.5 FID Slots

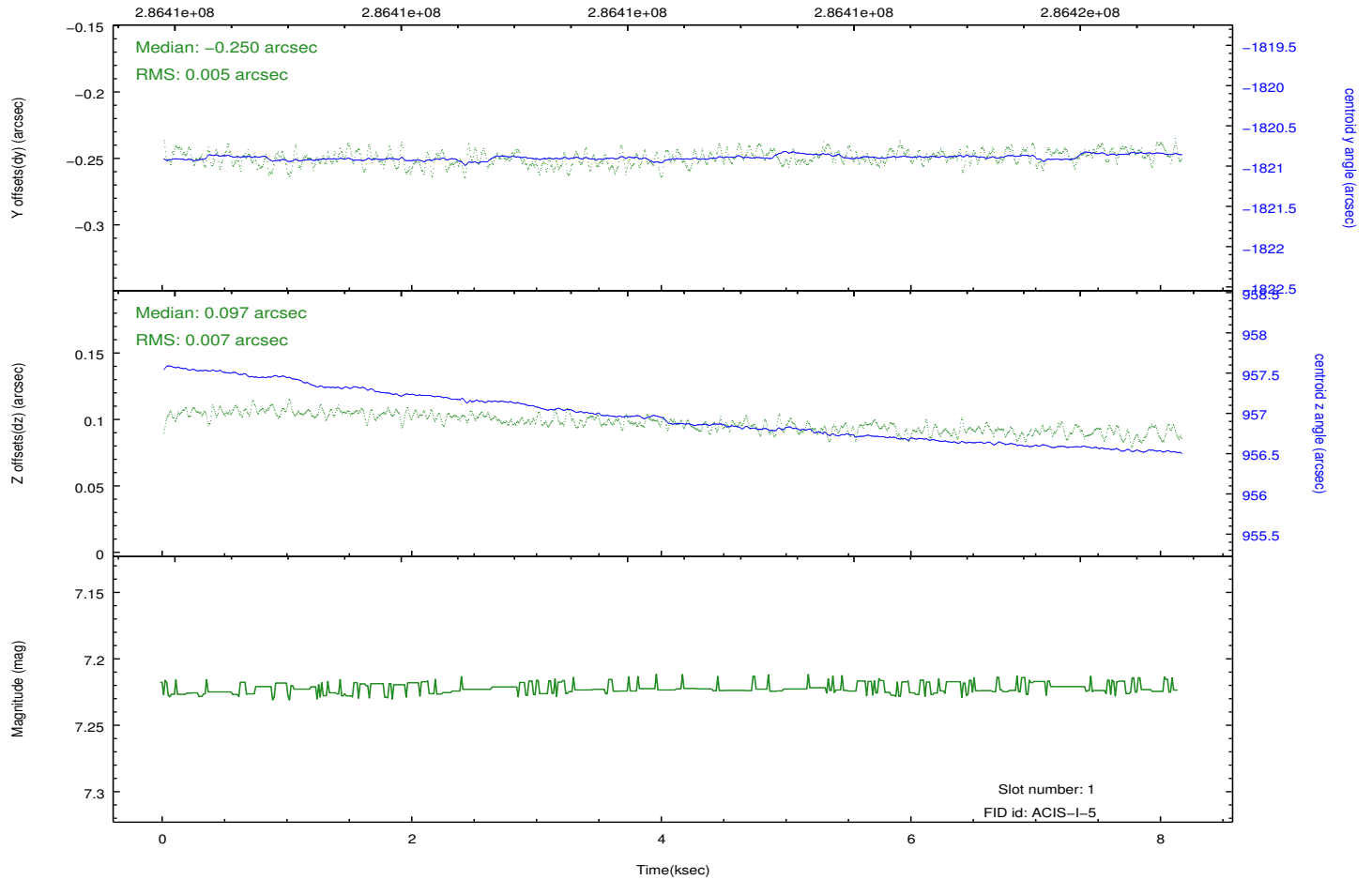
### 2.5.1 Slot 0



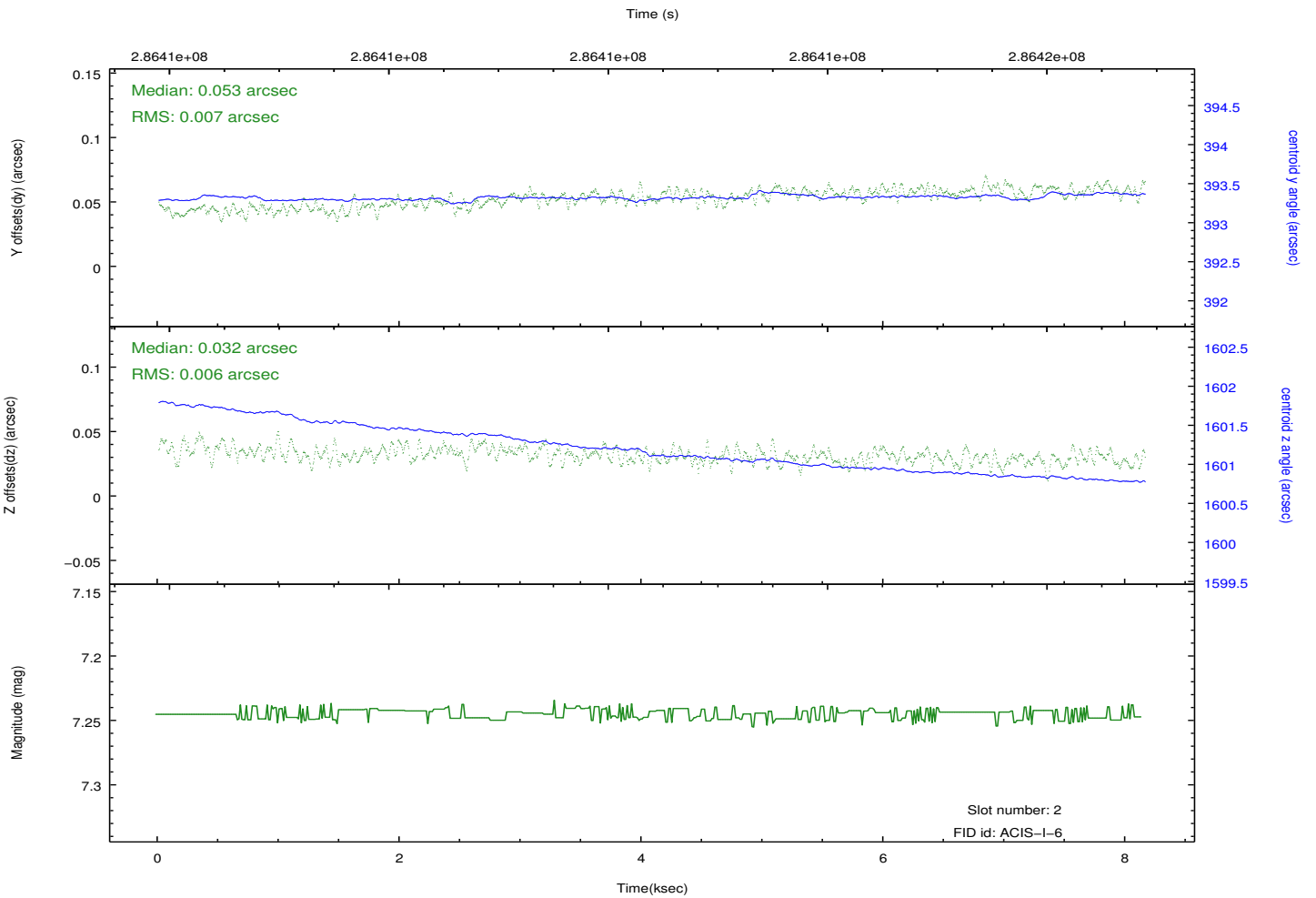
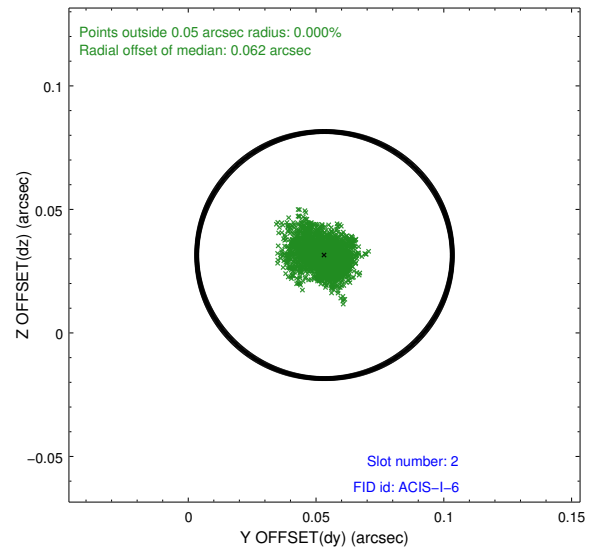
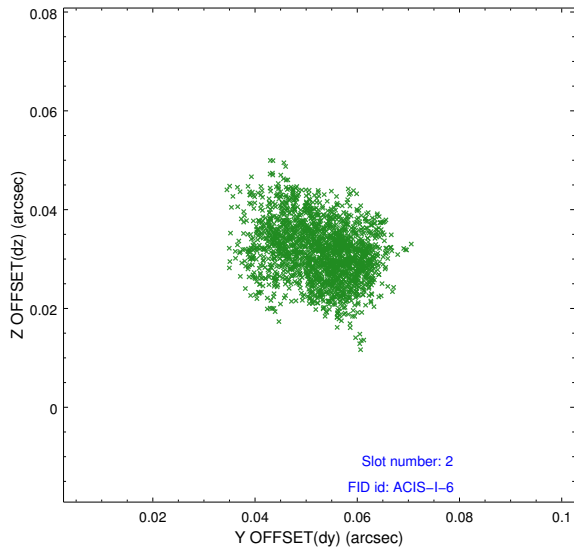
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1467591

## A.2 Comments