

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17634 - L2 Version 1  
Chandra X-Ray Center

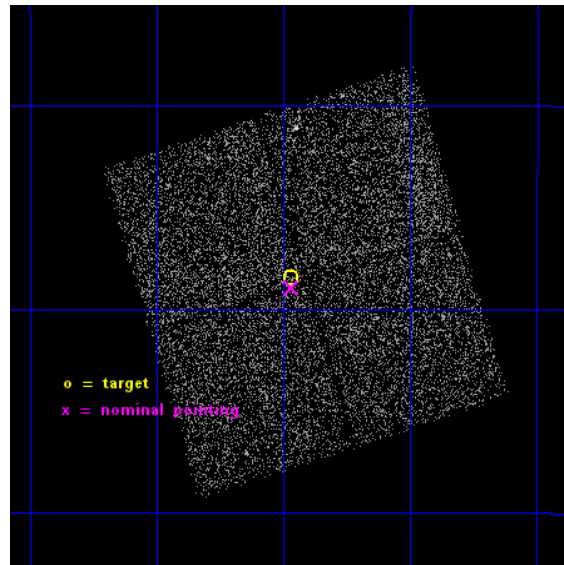
L2 Processing Date : Mar 19 2015

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# 1 Front

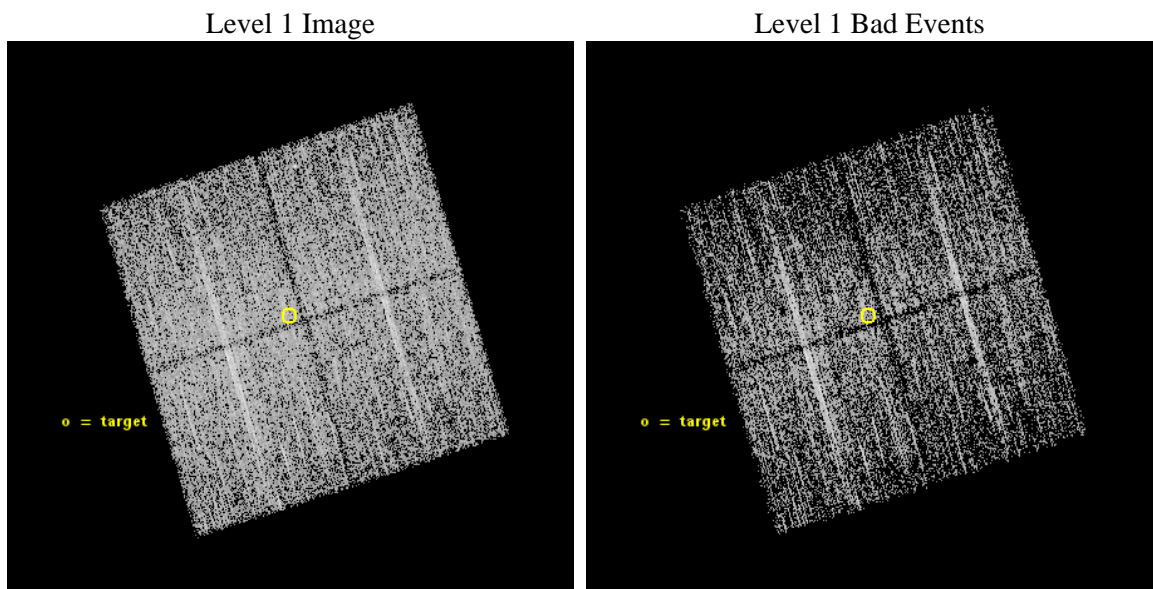
seq_num	901115	Sequence number
obs_id	17634	Observation id
title	The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe	Proposal title
observer	Prof. W.N. Brandt	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.117083	Observer's specified target RA [deg]
dec_targ	-27.807333	Observer's specified target Dec [deg]
ra_nom	53.117148604898	Nominal RA [deg]
dec_nom	-27.81554637356	Nominal Dec [deg]
roll_nom	252.70871469623	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9396.1000723839	Sum of GTIs [s]
livetime	9273.3331076299	Livetime [s]
ontime0	9396.1000723839	Sum of GTIs [s]
ontime1	9396.1000723839	Sum of GTIs [s]
ontime2	9396.1000723839	Sum of GTIs [s]
ontime3	9396.1000723839	Sum of GTIs [s]
l2events	16925	Number of level 2 events



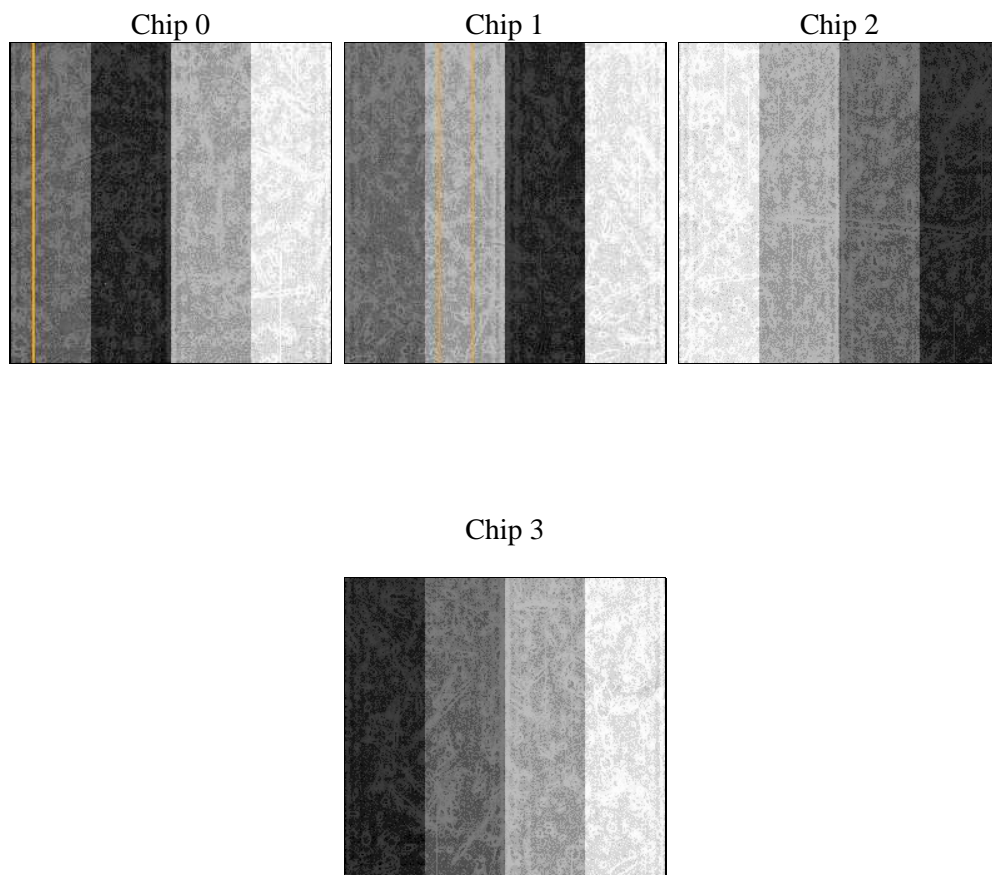
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	9307.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	9396.1000723839	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	9396.1000723839	Sum of GTIs [s]
date	2015-03-19T17:43:16	Date and time of file creation	ontime1	9396.1000723839	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9396.1000723839	Sum of GTIs [s]
			ontime3	9396.1000723839	Sum of GTIs [s]
			l1events	151841	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	34745	37891	41052	38153
rejected events	29747	32306	36233	33380
rejected %	85%	85%	88%	87%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1787	2008	1838	1828
	5%	5%	4%	4%
grade 1 events	21	26	23	21
	0%	0%	0%	0%
grade 2 events	1236	1248	1151	1007
	3%	3%	2%	2%
grade 3 events	471	553	503	467
	1%	1%	1%	1%
grade 4 events	503	535	487	487
	1%	1%	1%	1%
grade 5 events	1950	2050	1765	2183
	5%	5%	4%	5%
grade 6 events	1001	1244	843	986
	2%	3%	2%	2%
grade 7 events	27776	30227	34442	31174
	79%	79%	83%	81%

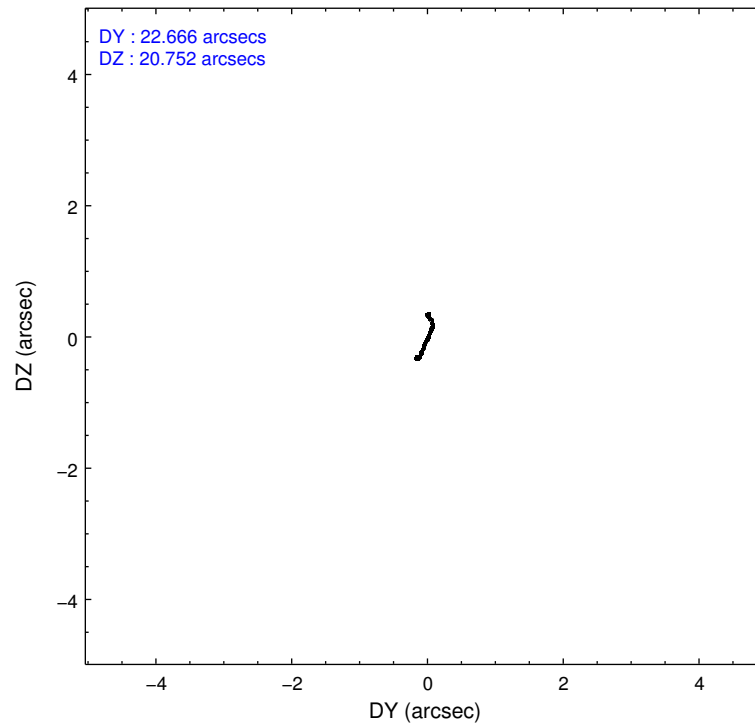
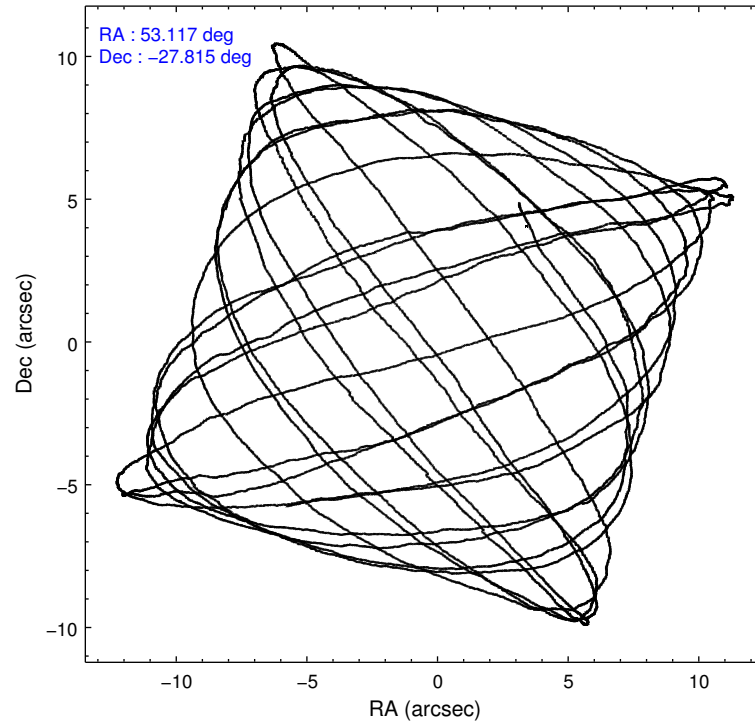


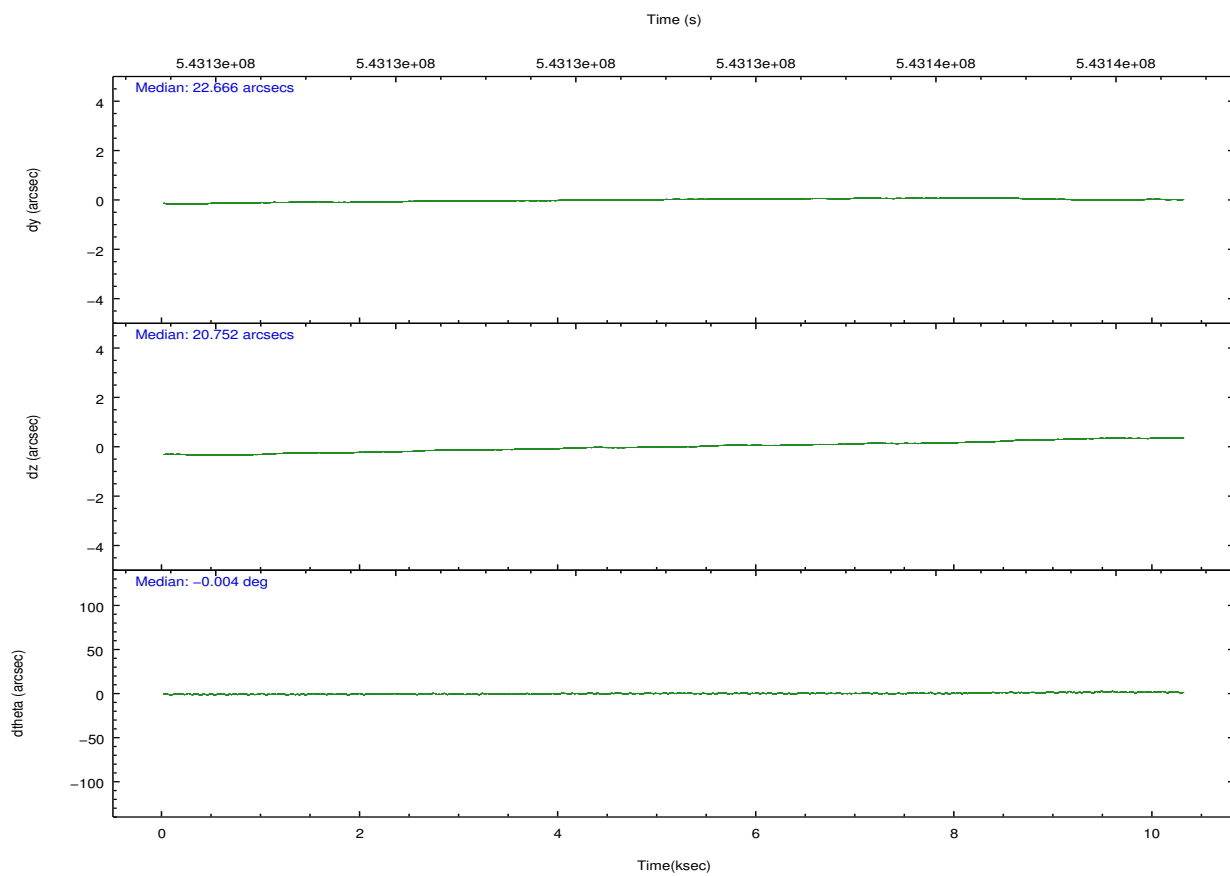
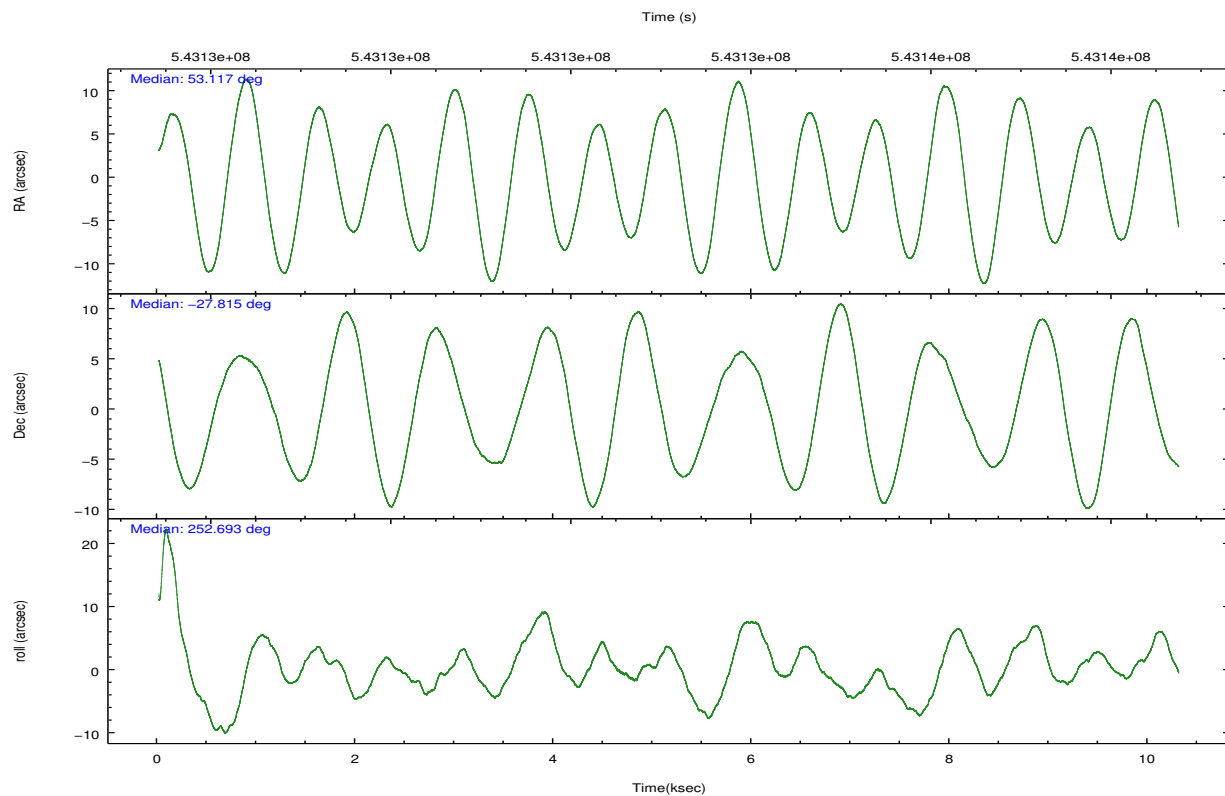
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	53.110126	53.11714860489813
[deg] Pointing Dec	-27.788619	-27.81554637356031
[deg] Pointing Roll	252.496756	252.7087146962277
[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)	543128951.184000	543127666.7371401
Observation start date	2015-03-19T05:08:04	2015-03-19T04:47:46
[s] Observation end time (MET)	543138258.184000	543139665.38781
Observation end date	2015-03-19T07:43:11	2015-03-19T08:07:45
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



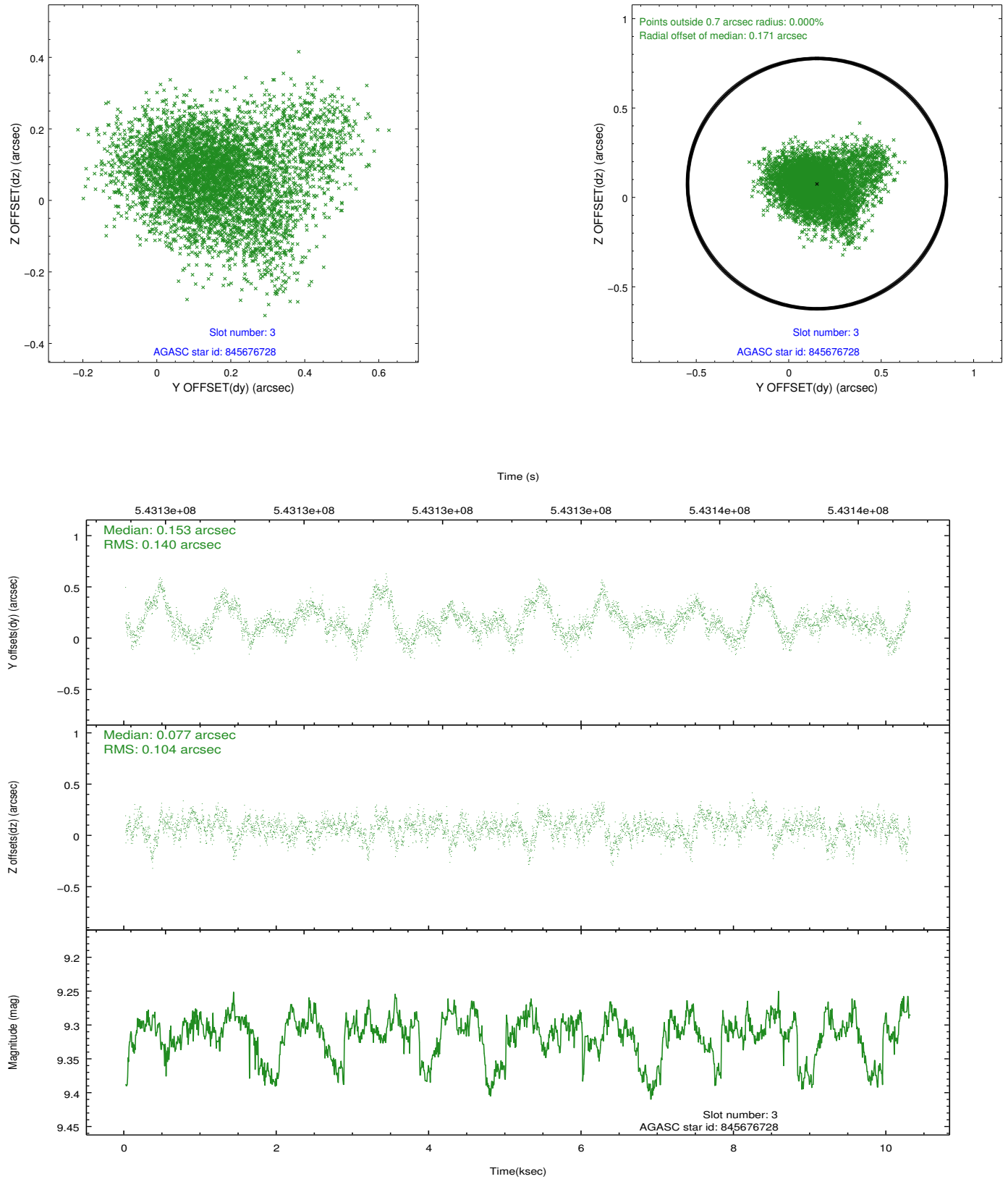


### Slot Statistics

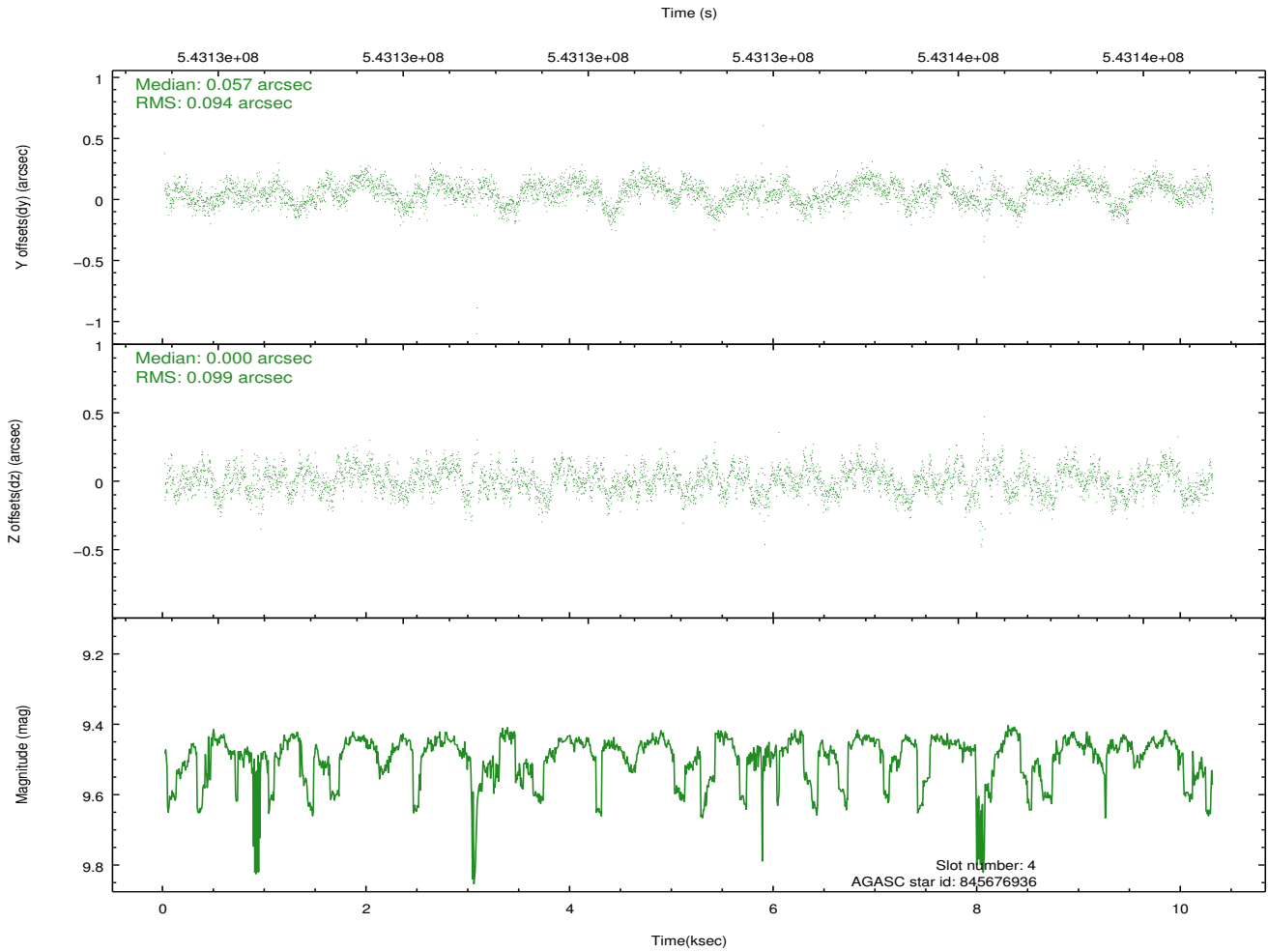
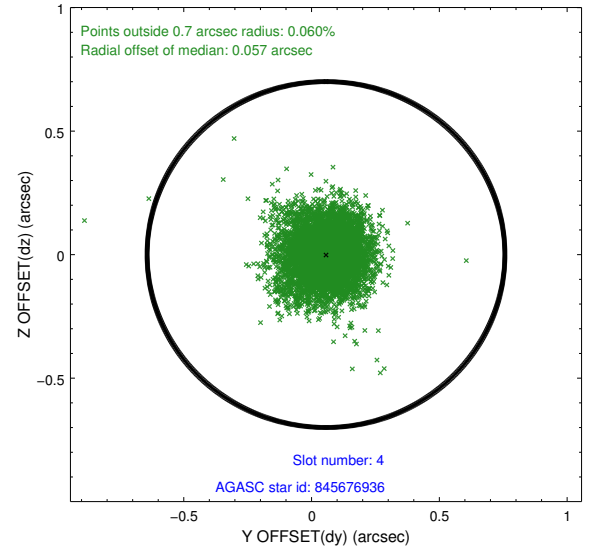
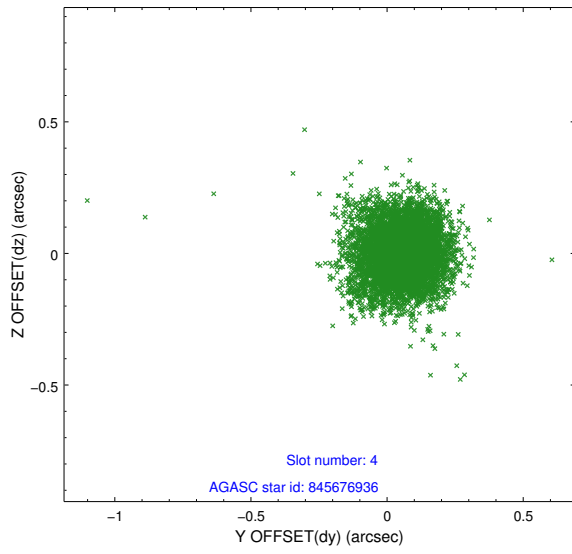
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.02	2512	0.077	-0.046	0.011	0.017	0.000000	0.000000	916.70	-844.51
1	FID		ACIS-I-5	7.01	2512	-0.319	0.046	0.008	0.013	0.000000	0.000000	-1831.59	1052.71
2	FID		ACIS-I-6	7.02	2512	0.151	0.069	0.008	0.013	0.000000	0.000000	381.66	1697.90
3	GUIDE	used	845676728	9.31	5019	0.153	0.077	0.183	0.317	52.877179	-27.664318	-201.78	-842.47
4	GUIDE	used	845676936	9.48	4991	0.057	0.000	0.142	0.228	52.843773	-27.880153	570.41	-708.20
5	GUIDE	used	845808496	10.17	5002	0.267	-0.035	0.246	0.392	53.777917	-27.725281	-851.61	1962.50
6	GUIDE	used	845815128	10.16	5015	-0.337	-0.194	0.302	0.454	53.509794	-28.102676	698.39	1551.68
7	GUIDE	used	845417688	9.92	4930	-0.144	0.167	0.208	0.338	54.025245	-27.354040	-2361.92	2323.50

## 2.4 Star Slots

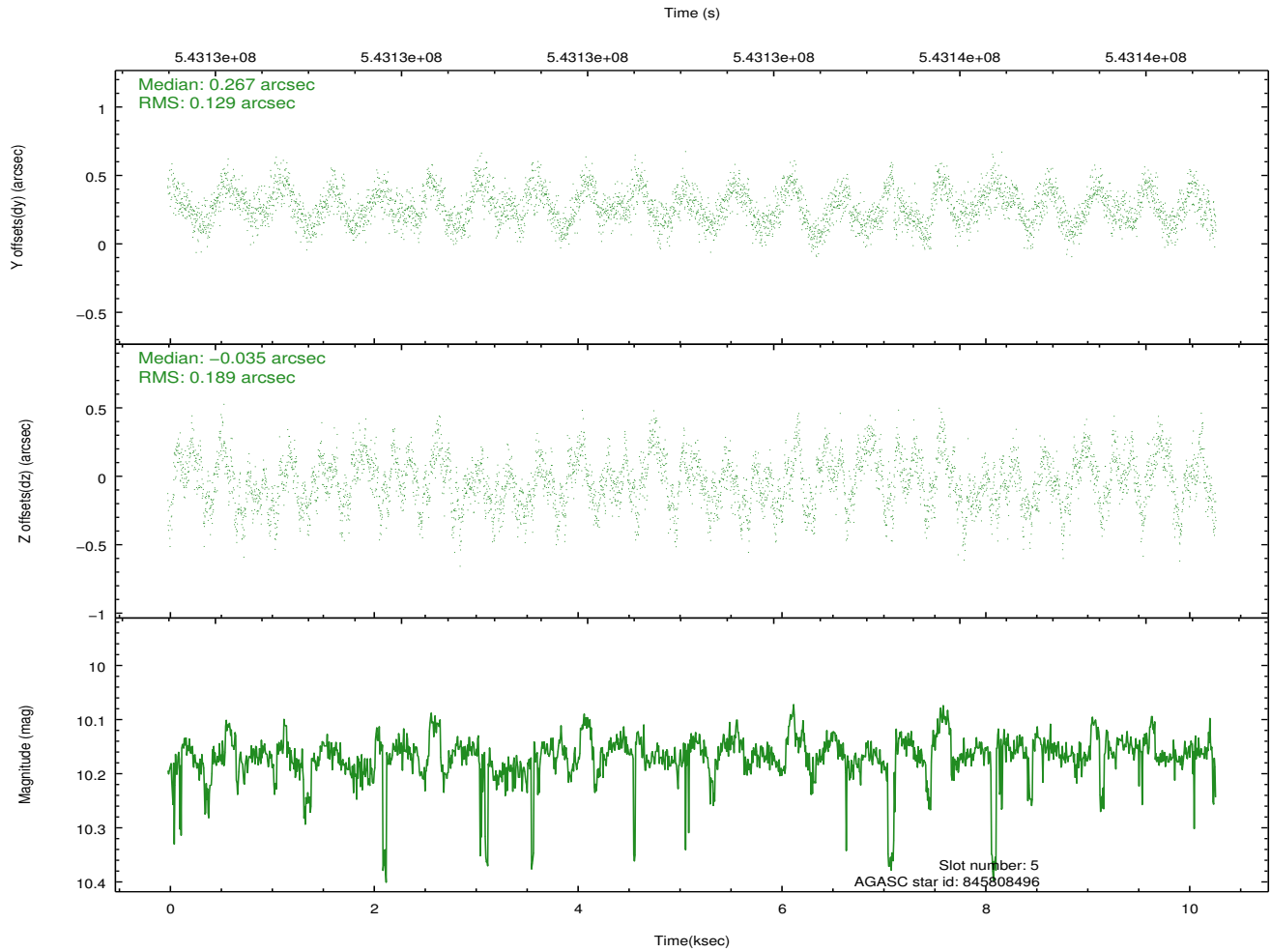
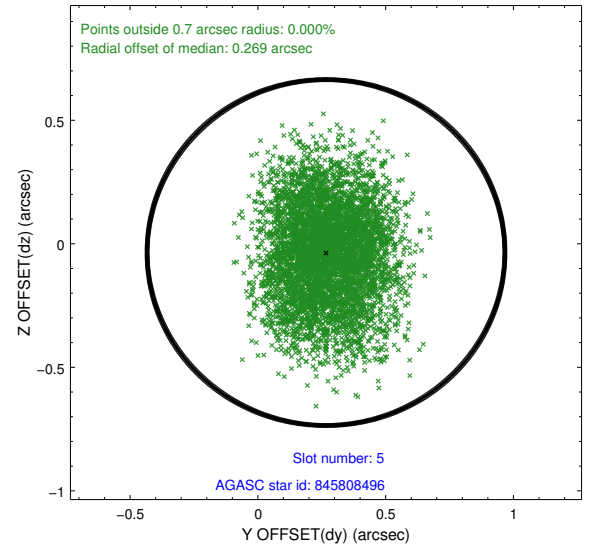
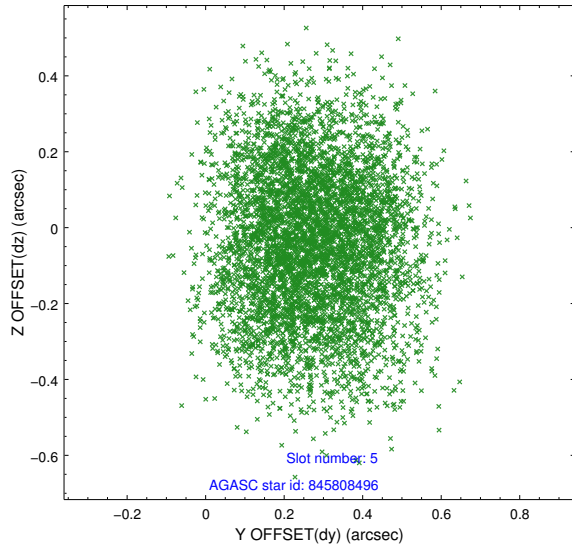
### 2.4.1 Slot 3



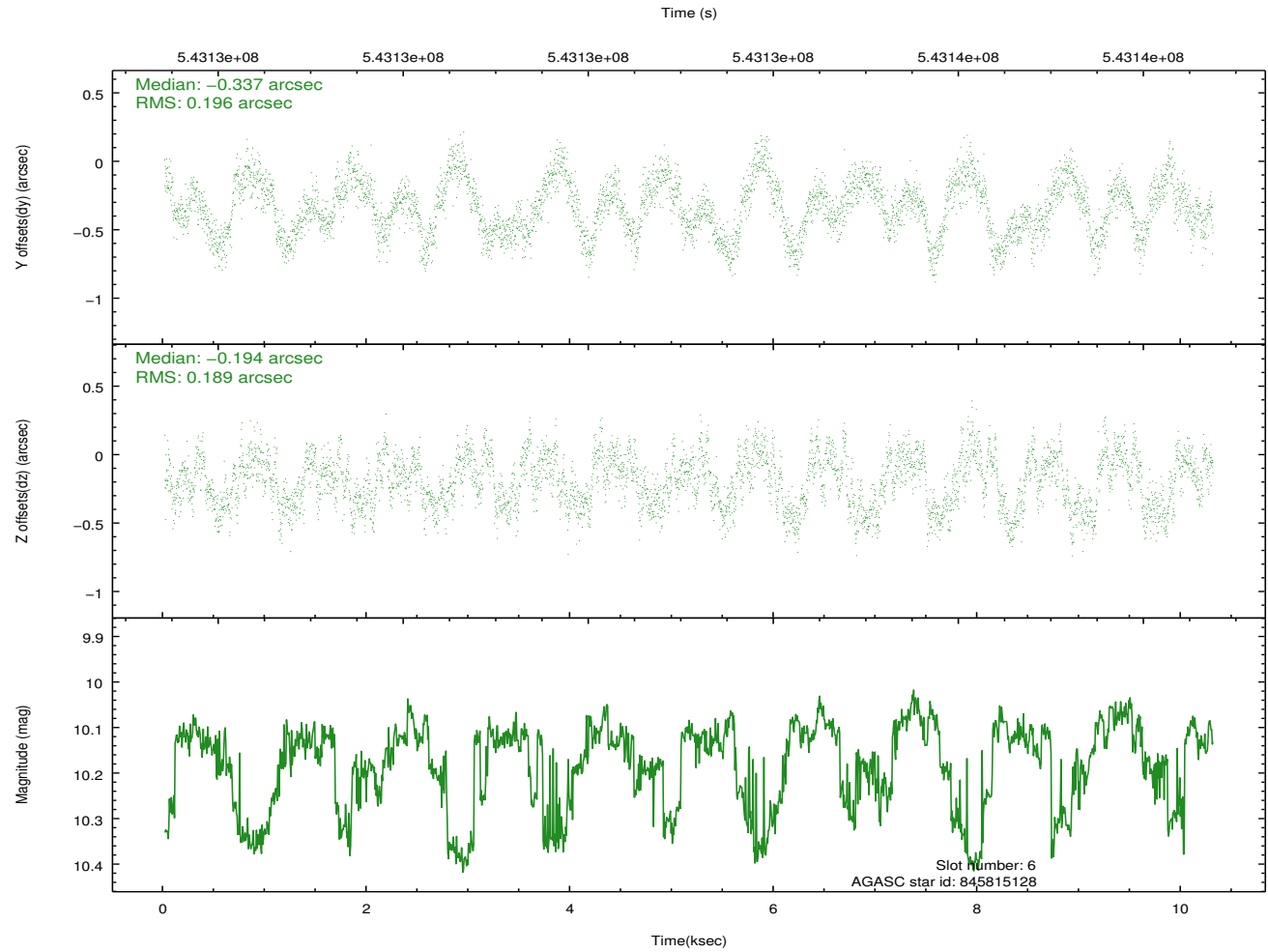
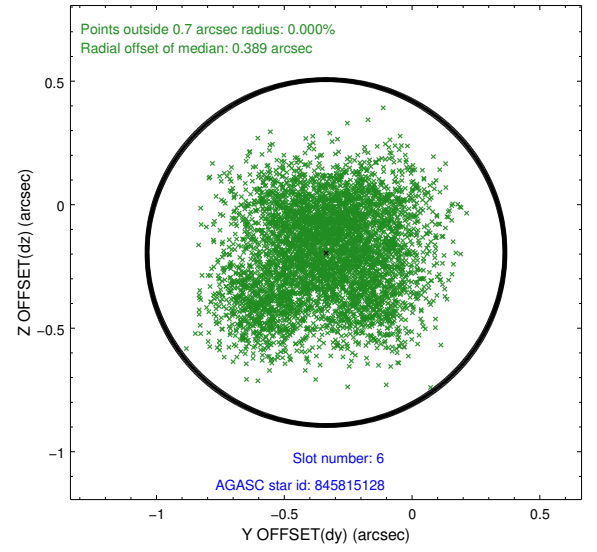
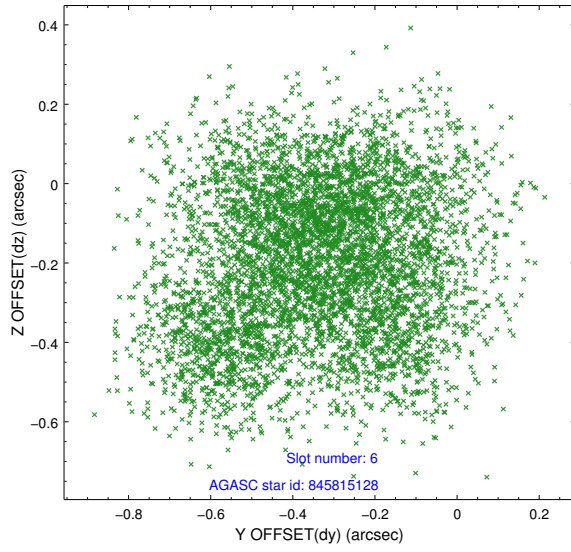
## 2.4.2 Slot 4



### 2.4.3 Slot 5

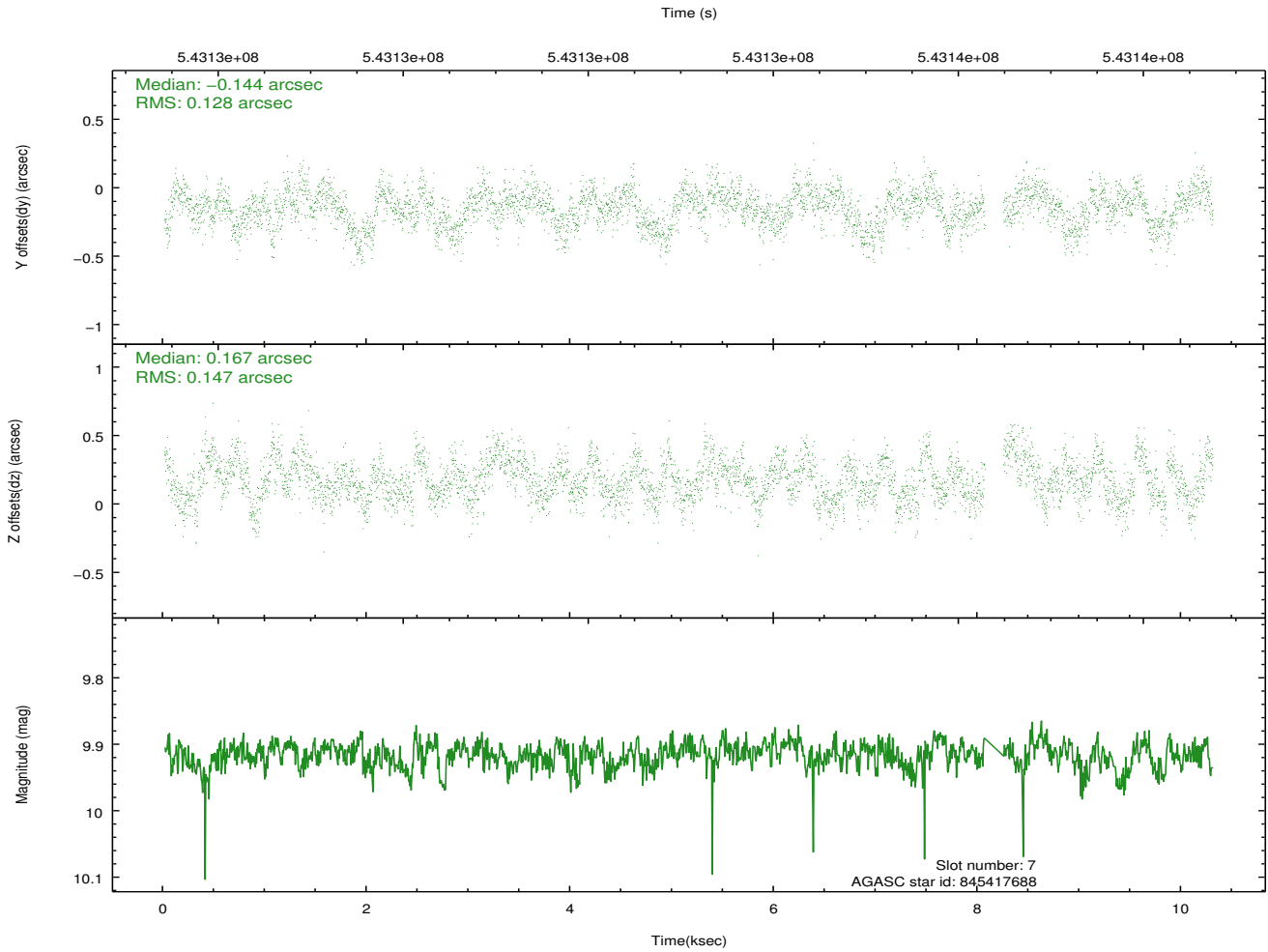
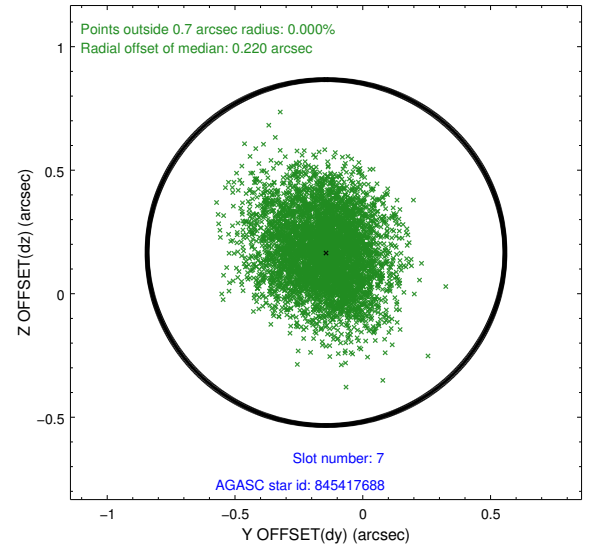
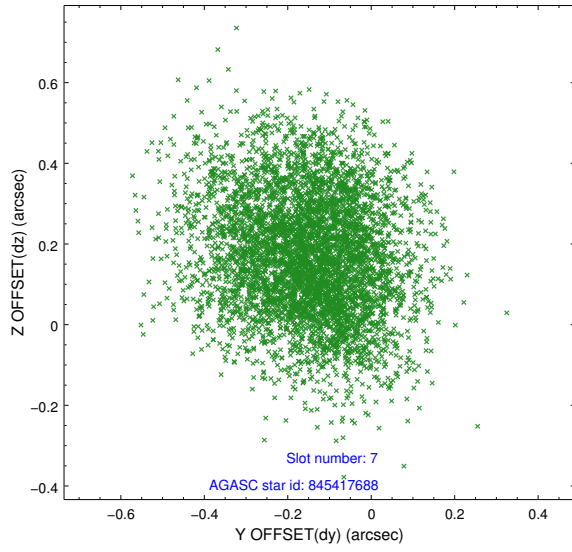


## 2.4.4 Slot 6



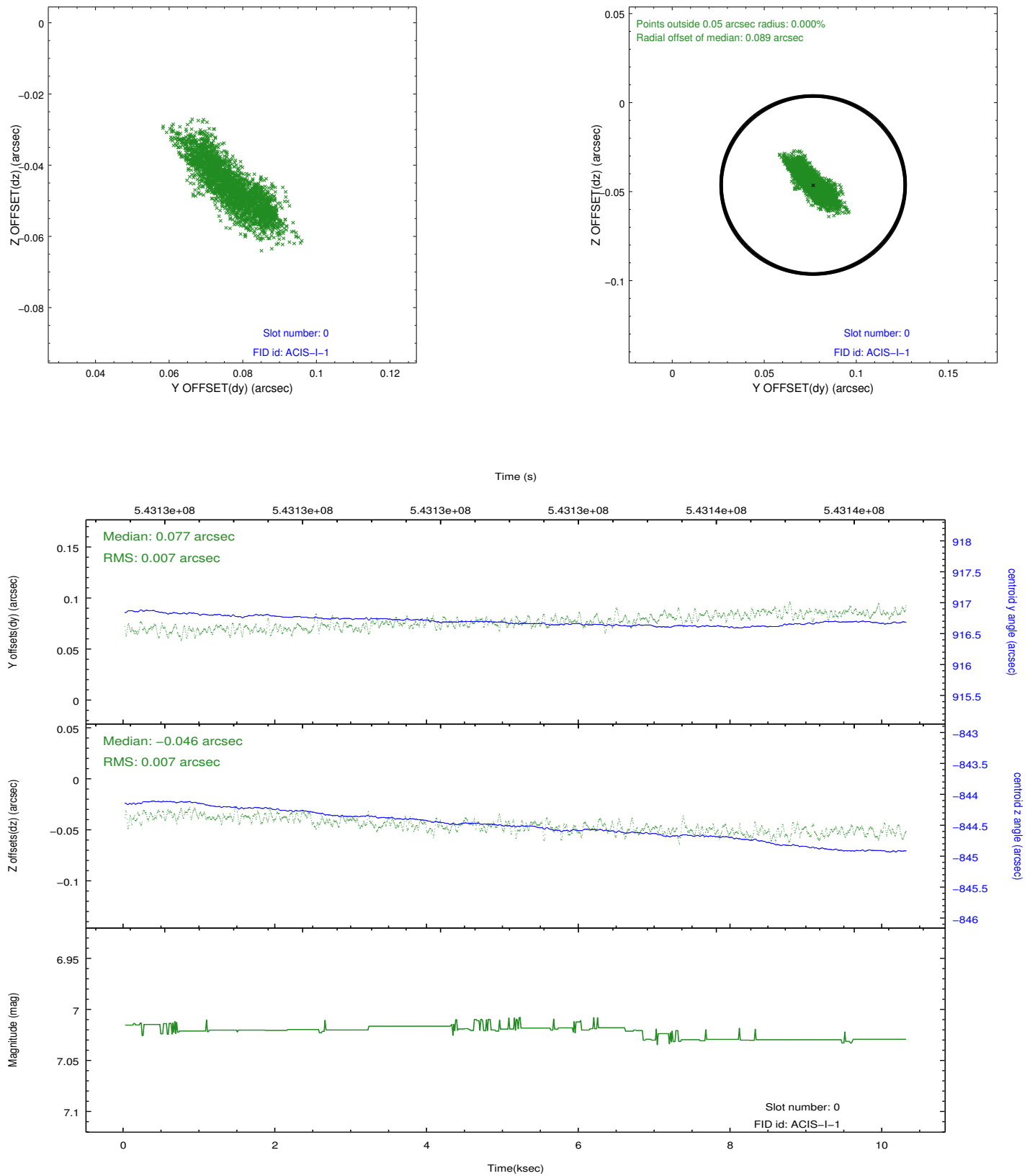


## 2.4.5 Slot 7

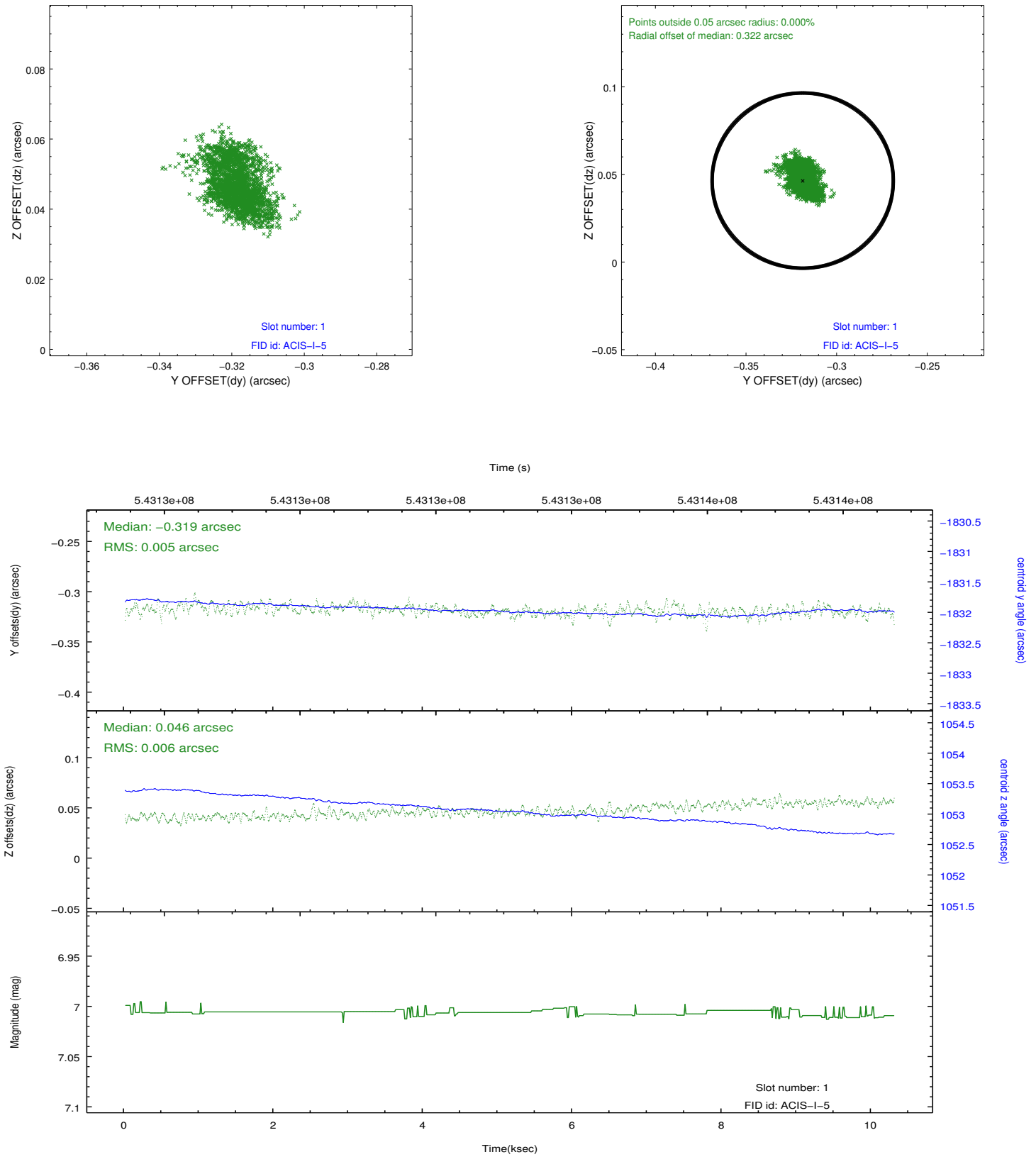


## 2.5 FID Slots

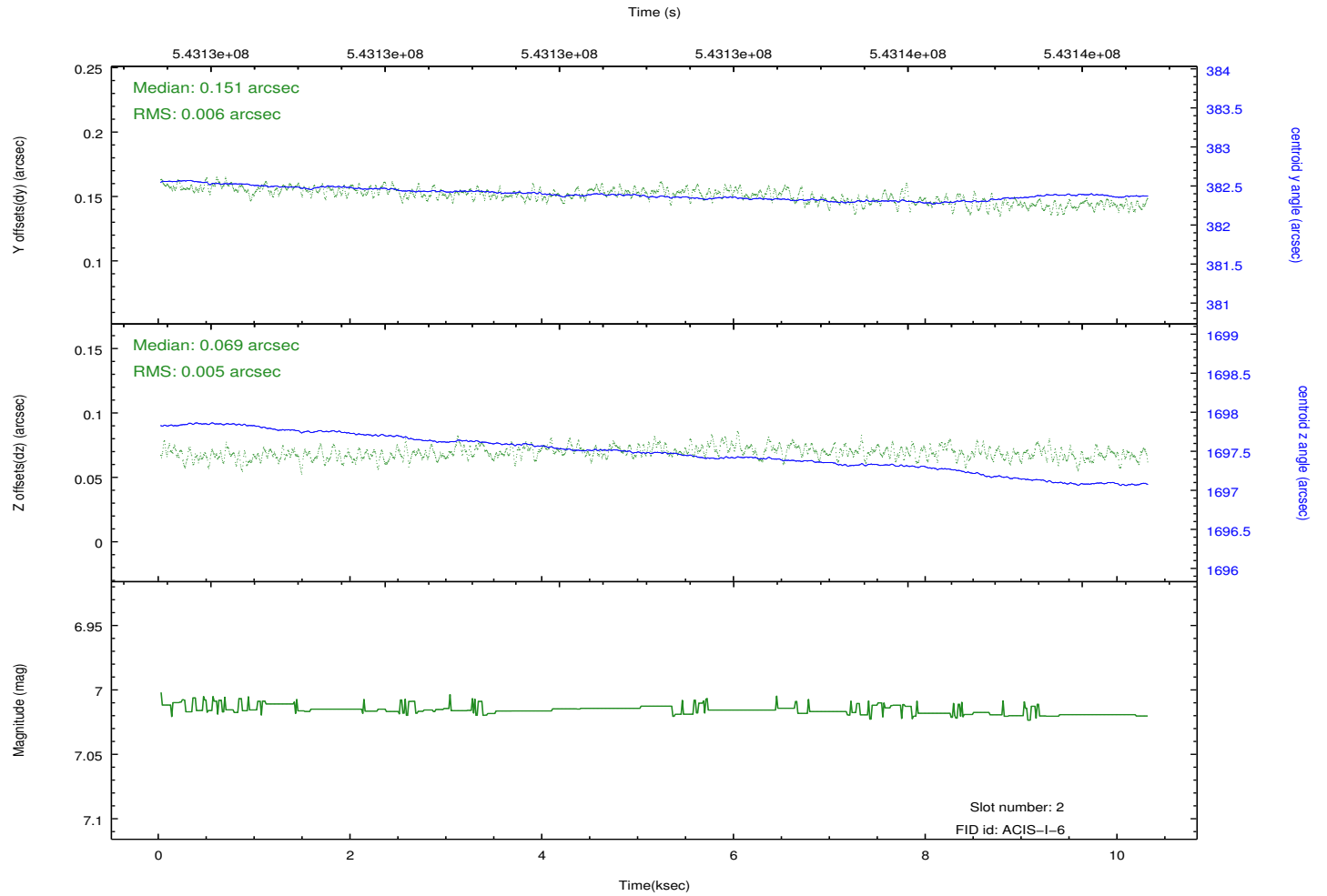
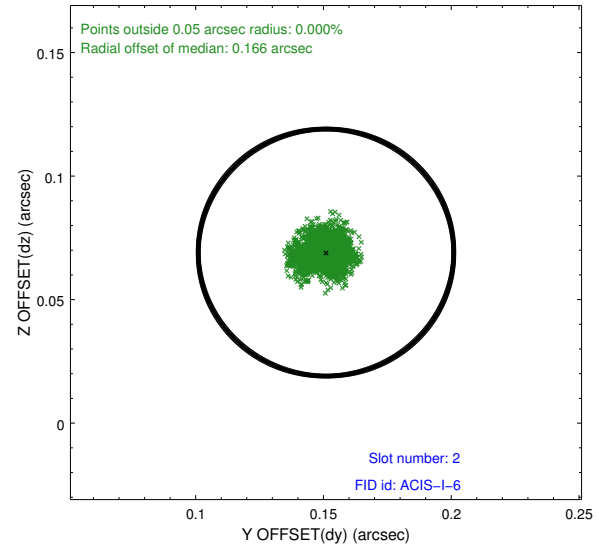
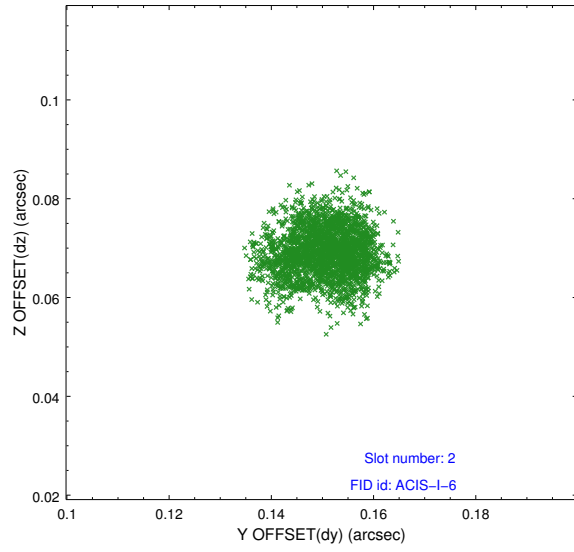
### 2.5.1 Slot 0



## 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)	2015.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.3961000723839

### A.2 Comments