

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16176 - L2 Version 1  
Chandra X-Ray Center

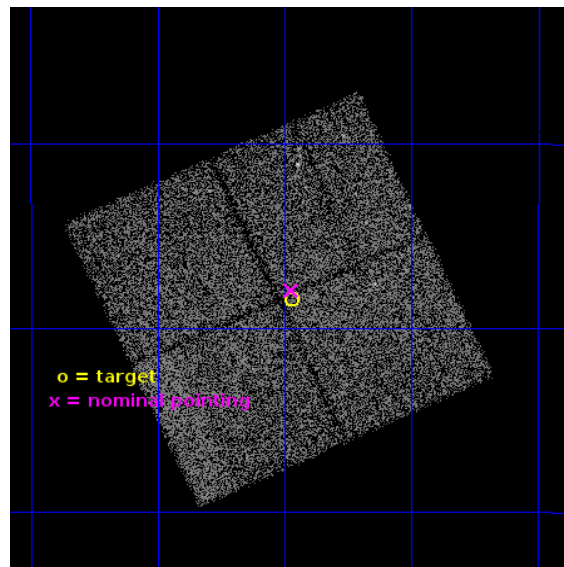
L2 Processing Date : Oct 3 2014

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# 1 Front

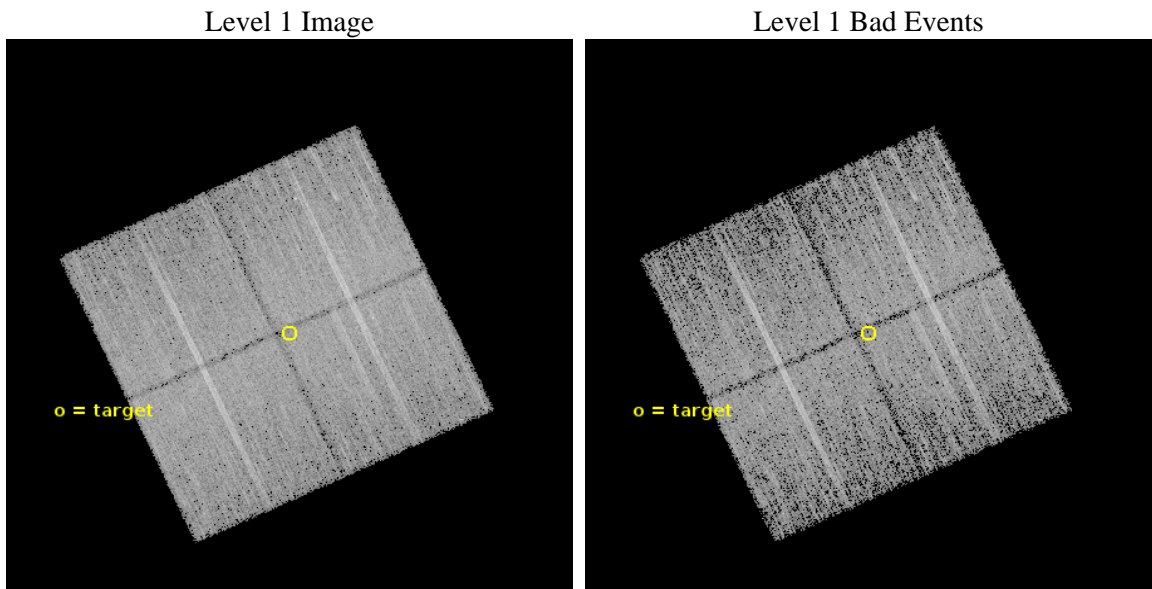
seq_num	901115	Sequence number
obs_id	16176	Observation id
title	The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe	Proposal title
observer	Prof. W.N. Brandt	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	&#160
cycle	P	events 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	53.118253446925	Nominal RA [deg]
dec_nom	-27.799203404984	Nominal Dec [deg]
roll_nom	65.209255926807	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25004.463051021	Sum of GTIs [s]
livetime	24677.761333242	Livetime [s]
ontime0	25007.480951309	Sum of GTIs [s]
ontime1	25004.380970955	Sum of GTIs [s]
ontime2	25004.422040939	Sum of GTIs [s]
ontime3	25004.463051021	Sum of GTIs [s]
l2events	52482	Number of level 2 events



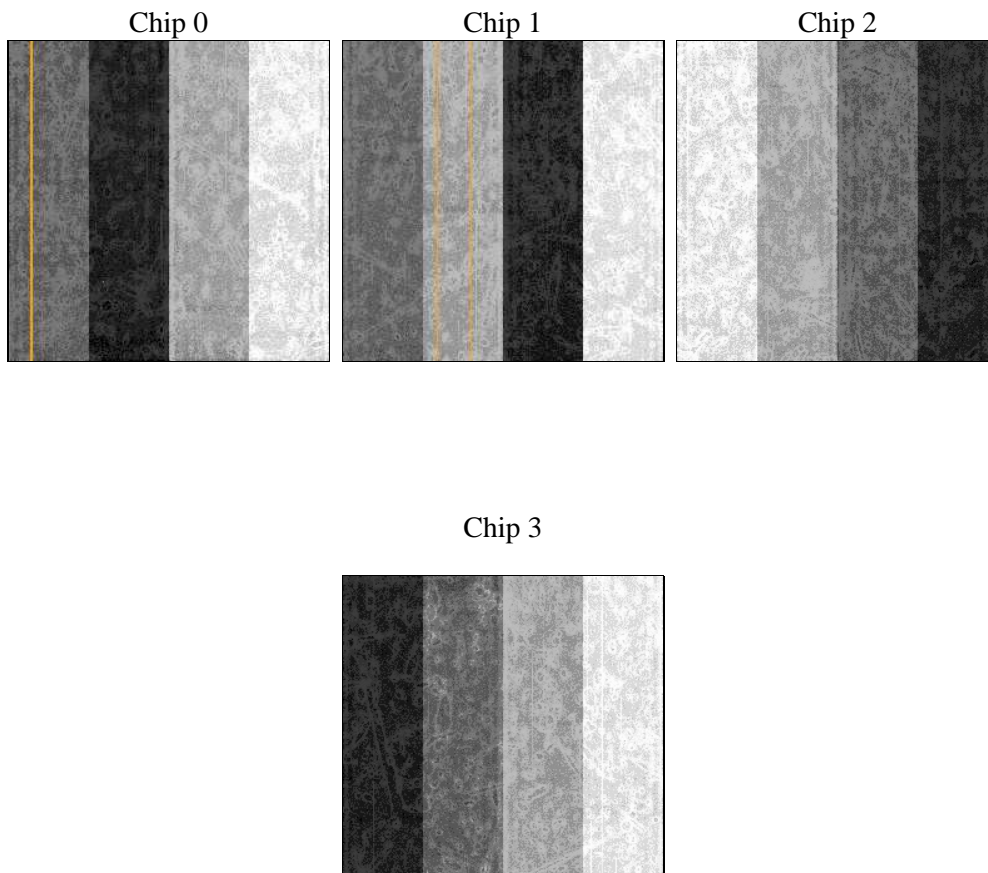
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24917.592000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	25004.463051021	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime0	25007.480951309	Sum of GTIs [s]
date	2014-10-03T07:29:09	Date and time of file creation	ontime1	25004.380970955	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25004.422040939	Sum of GTIs [s]
			ontime3	25004.463051021	Sum of GTIs [s]
			l1events	466450	Number of level 1 events

### 2.1.4 Events

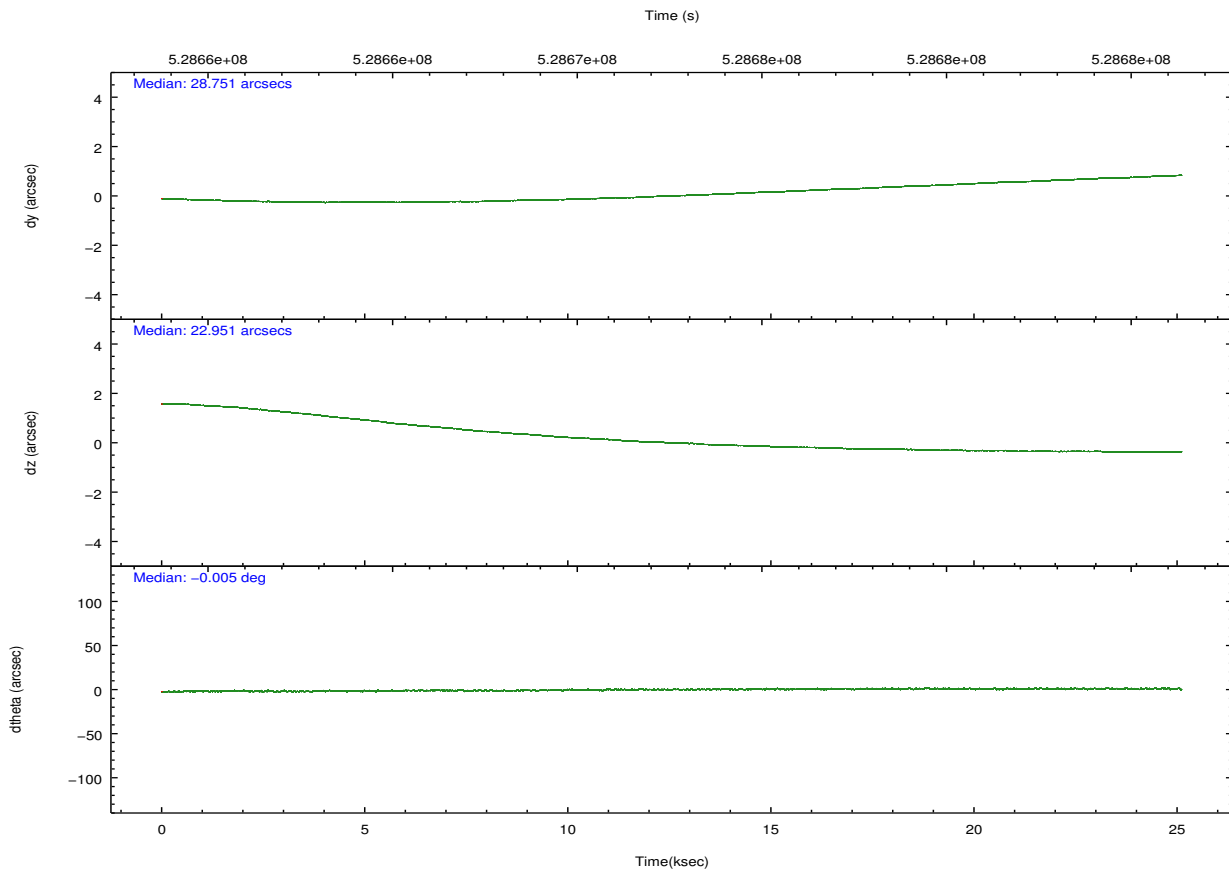
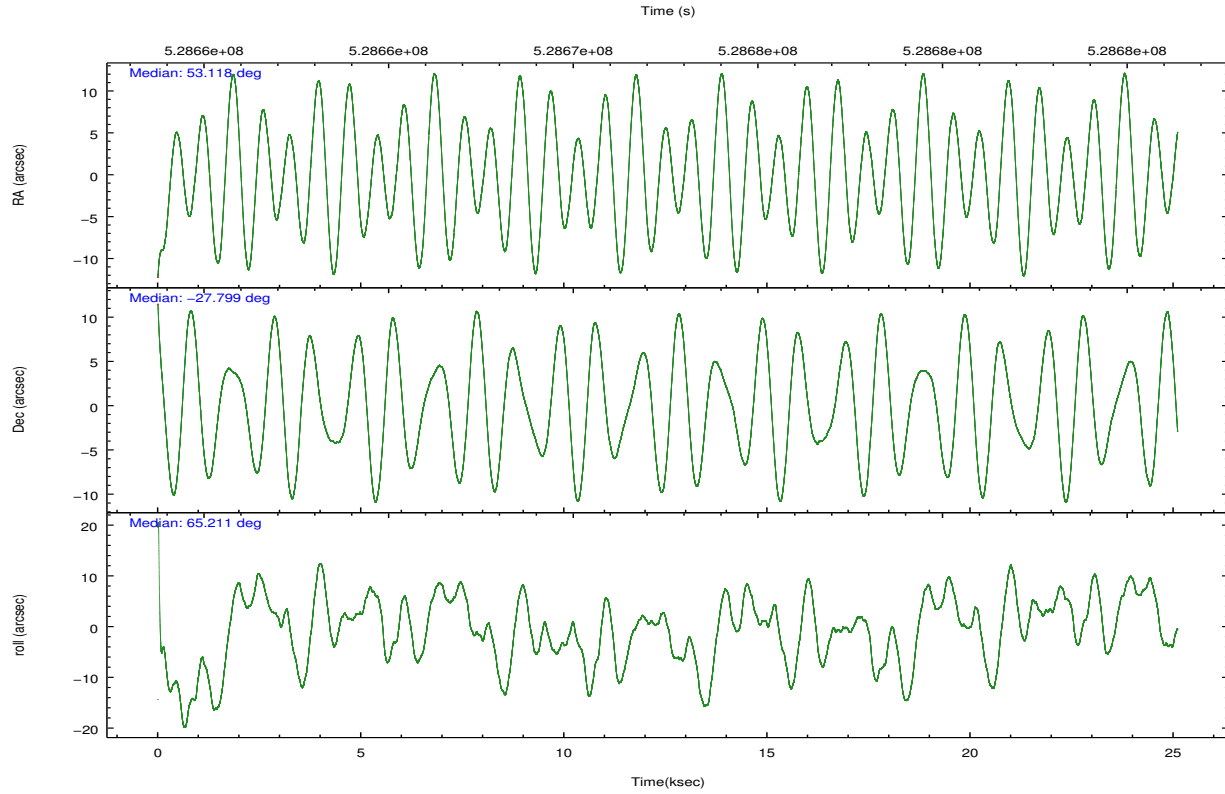
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	110506	114479	124602	116863
rejected events	95200	97491	109293	102301
rejected %	86%	85%	87%	87%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5340	5767	5585	5179
	4%	5%	4%	4%
grade 1 events	75	57	78	88
	0%	0%	0%	0%
grade 2 events	3750	4176	3779	3235
	3%	3%	3%	2%
grade 3 events	1514	1633	1464	1506
	1%	1%	1%	1%
grade 4 events	1514	1661	1520	1496
	1%	1%	1%	1%
grade 5 events	5781	6123	5555	6636
	5%	5%	4%	5%
grade 6 events	3191	3752	2962	3148
	2%	3%	2%	2%
grade 7 events	89341	91310	103659	95575
	80%	79%	83%	81%

## 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	53.121220	53.11825344692515	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.826695	-27.79920340498392	Alternating exposures requested	N	N
[deg] Pointing Roll	65.001928	65.20925592680669	[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	-233.5899487761303			
[mm] SIM translation stage offset	0	-0.002504226799430853			
[s] Observation start time (MET)	528660197.184000	528659104.6929			
Observation start date	2014-10-02T18:02:10	2014-10-02T17:45:04			
[s] Observation end time (MET)	528685115.184000	528685351.35686			
Observation end date	2014-10-03T00:57:28	2014-10-03T01:02:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect

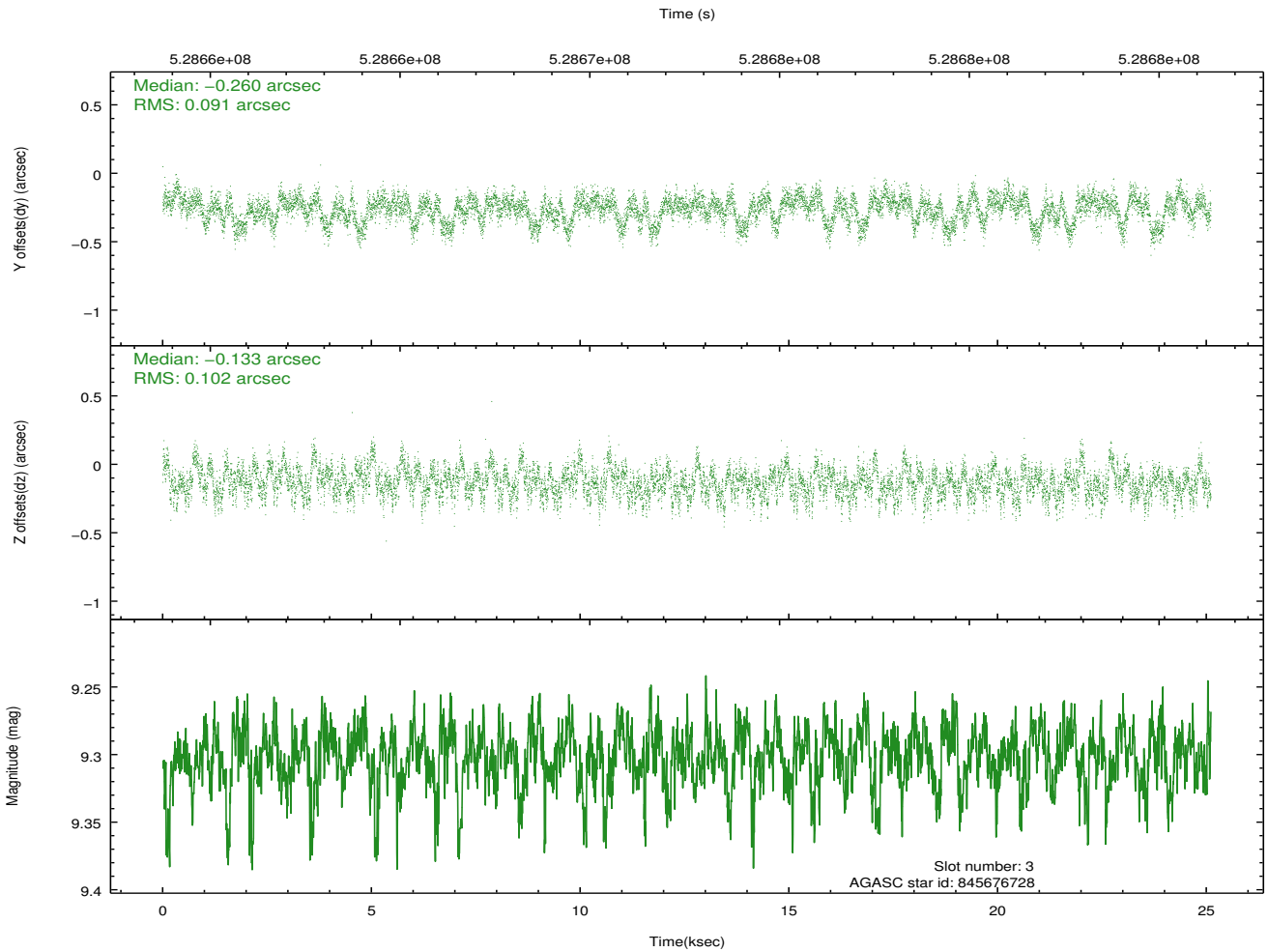
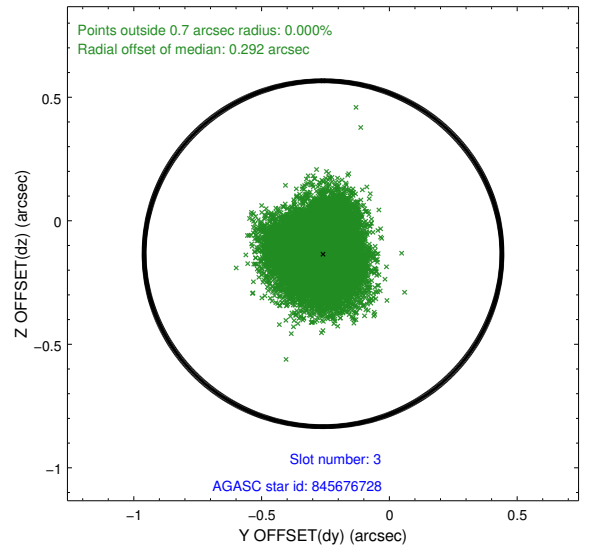
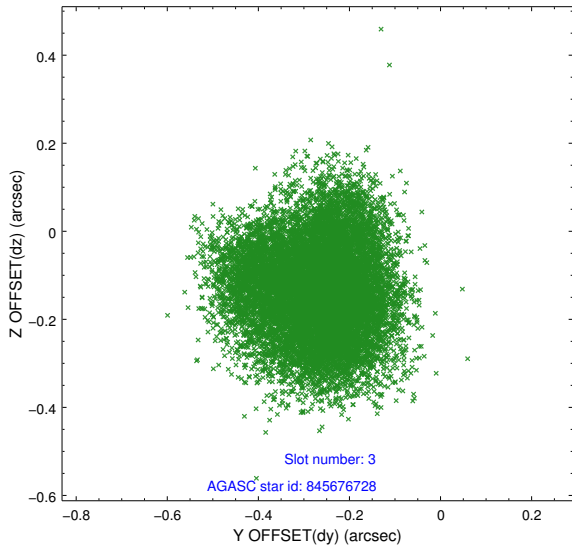


### Slot Statistics

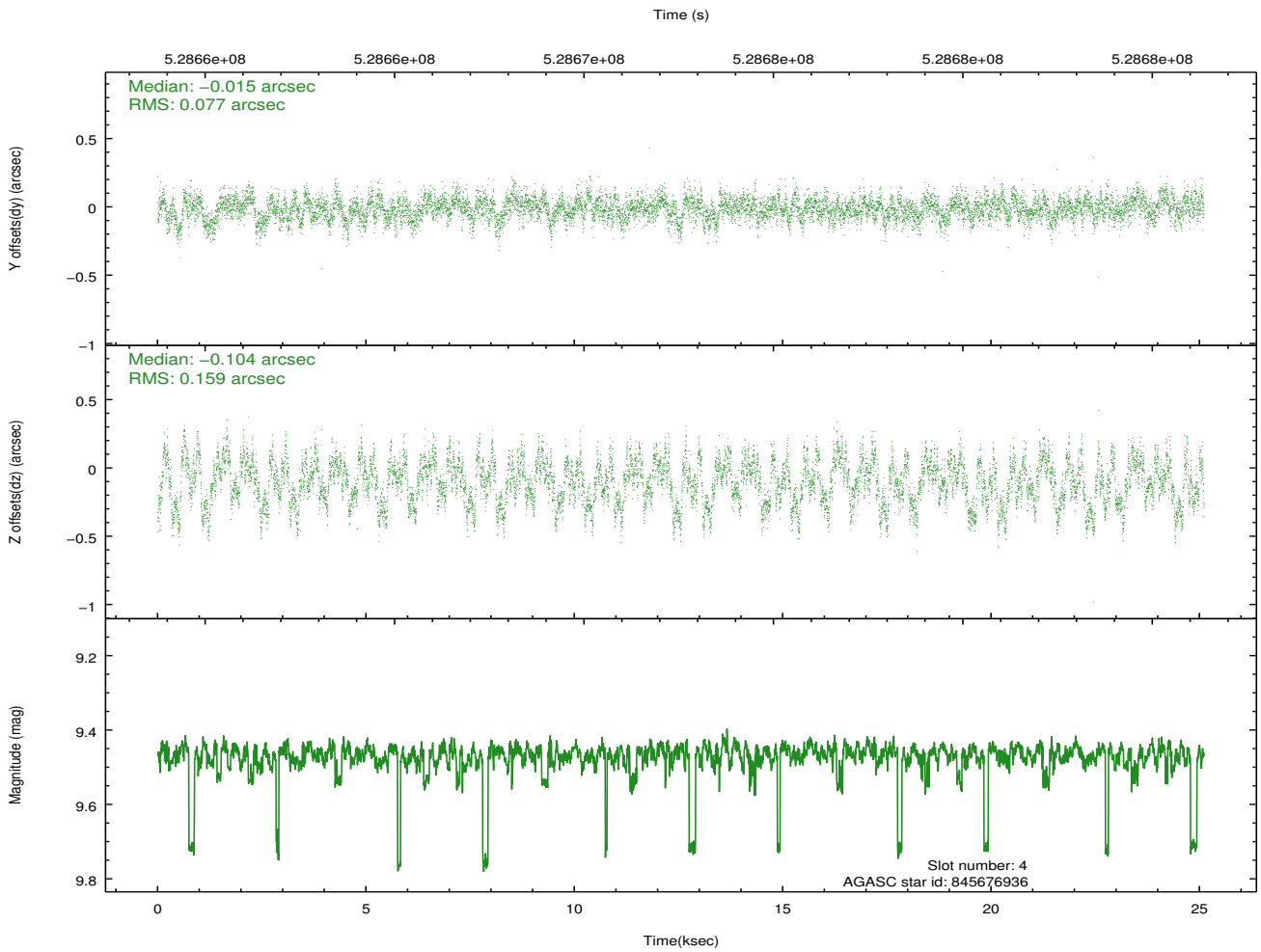
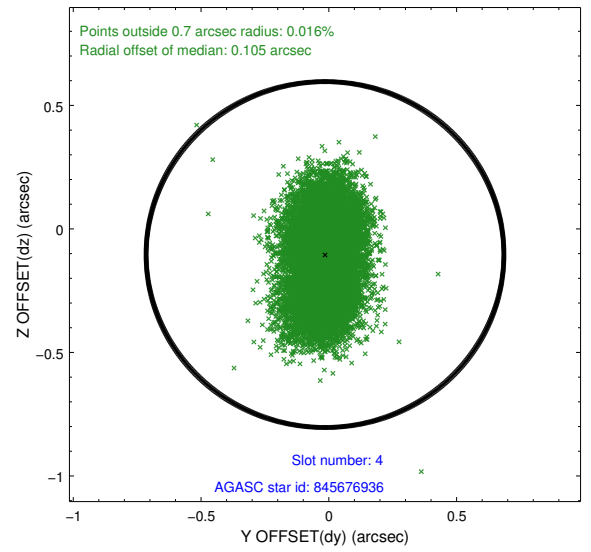
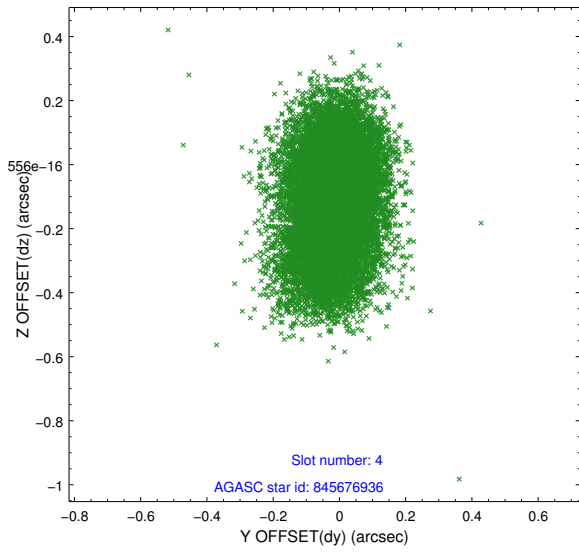
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.09	6124	0.030	0.043	0.013	0.022	0.000000	0.000000	910.28	-846.87
1	FID	ACIS-I-5	7.08	6124	-0.278	0.028	0.009	0.014	0.000000	0.000000	-1838.16	1050.41
2	FID	ACIS-I-6	7.09	6123	0.156	-0.001	0.012	0.020	0.000000	0.000000	375.70	1695.13
3	GUIDE	845676728	9.30	12240	-0.260	-0.133	0.150	0.230	52.877179	-27.664318	200.50	951.85
4	GUIDE	845676936	9.47	12238	-0.015	-0.104	0.188	0.311	52.843773	-27.880153	-547.52	718.04
5	GUIDE	845807880	8.81	12239	0.329	0.245	0.169	0.290	53.382027	-27.886093	156.82	-842.48
6	GUIDE	845808496	10.15	12160	0.368	0.379	0.229	0.370	53.777917	-27.725281	1210.99	-1744.36
7	BAD	845808968	9.89	11315	-0.398	-0.446	0.251	0.441	54.016598	-27.589085	1973.76	-2231.95

## 2.4 Star Slots

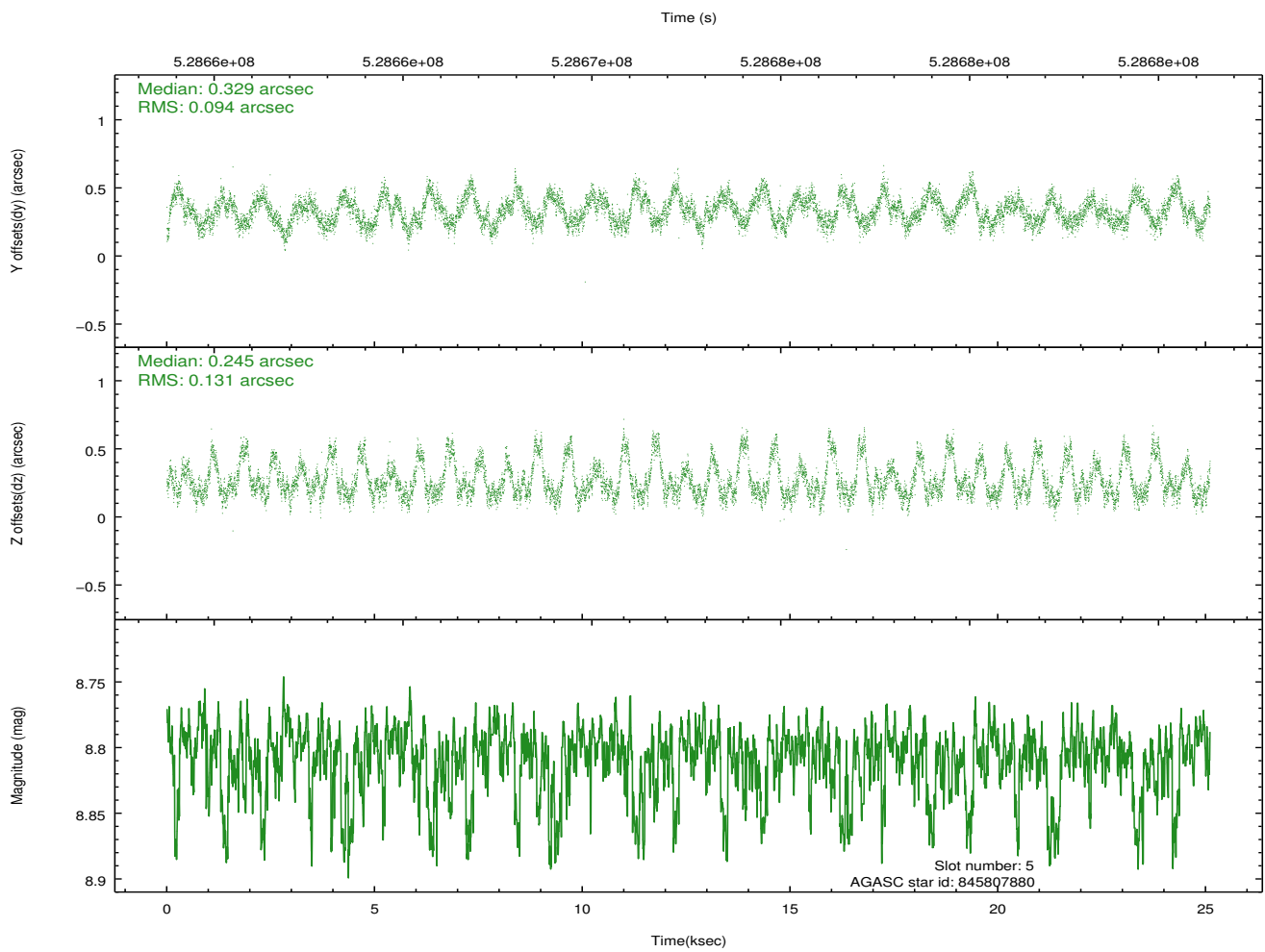
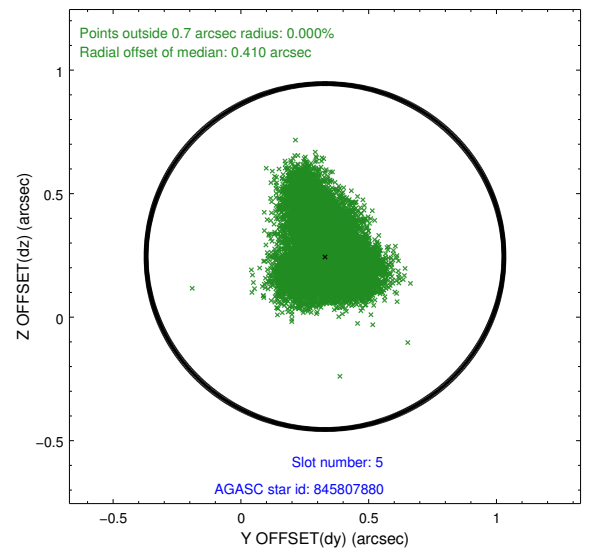
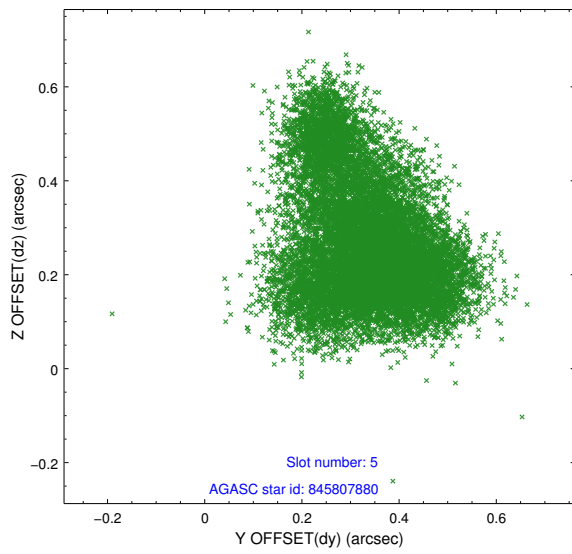
### 2.4.1 Slot 3



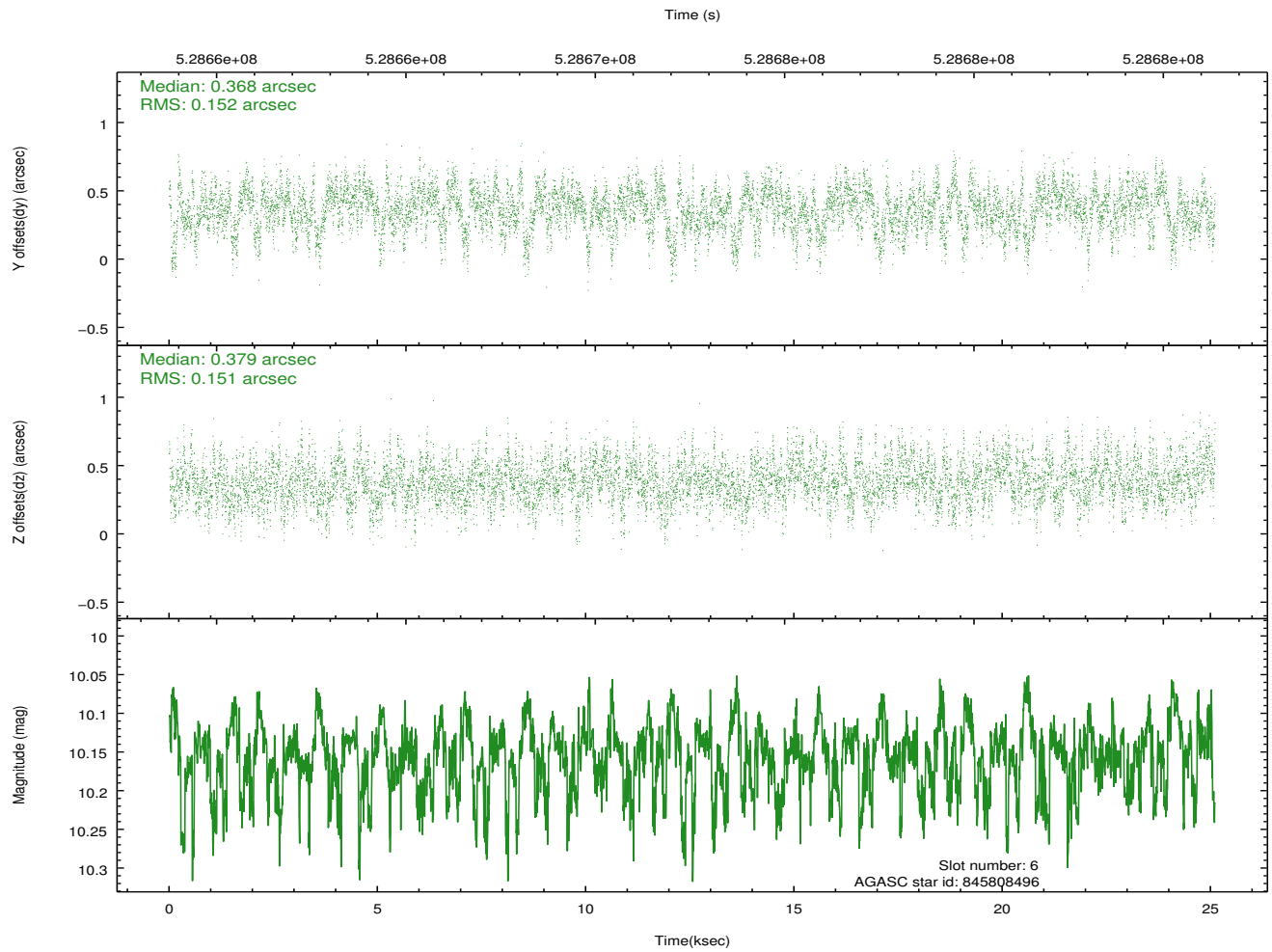
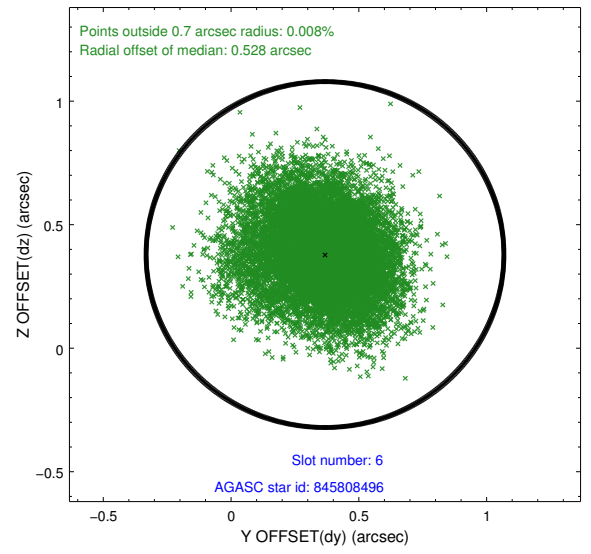
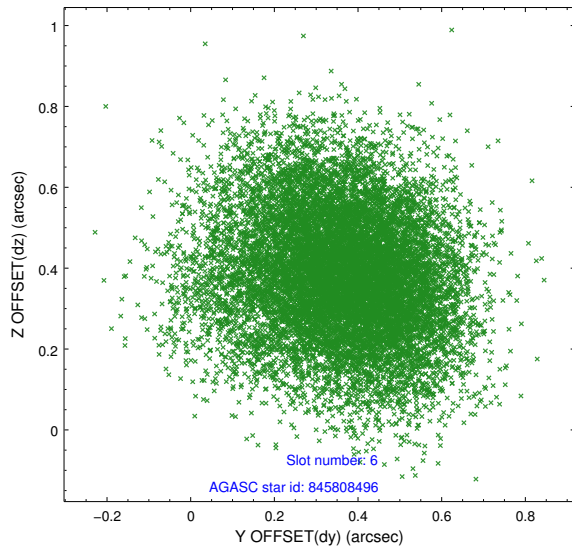
## 2.4.2 Slot 4



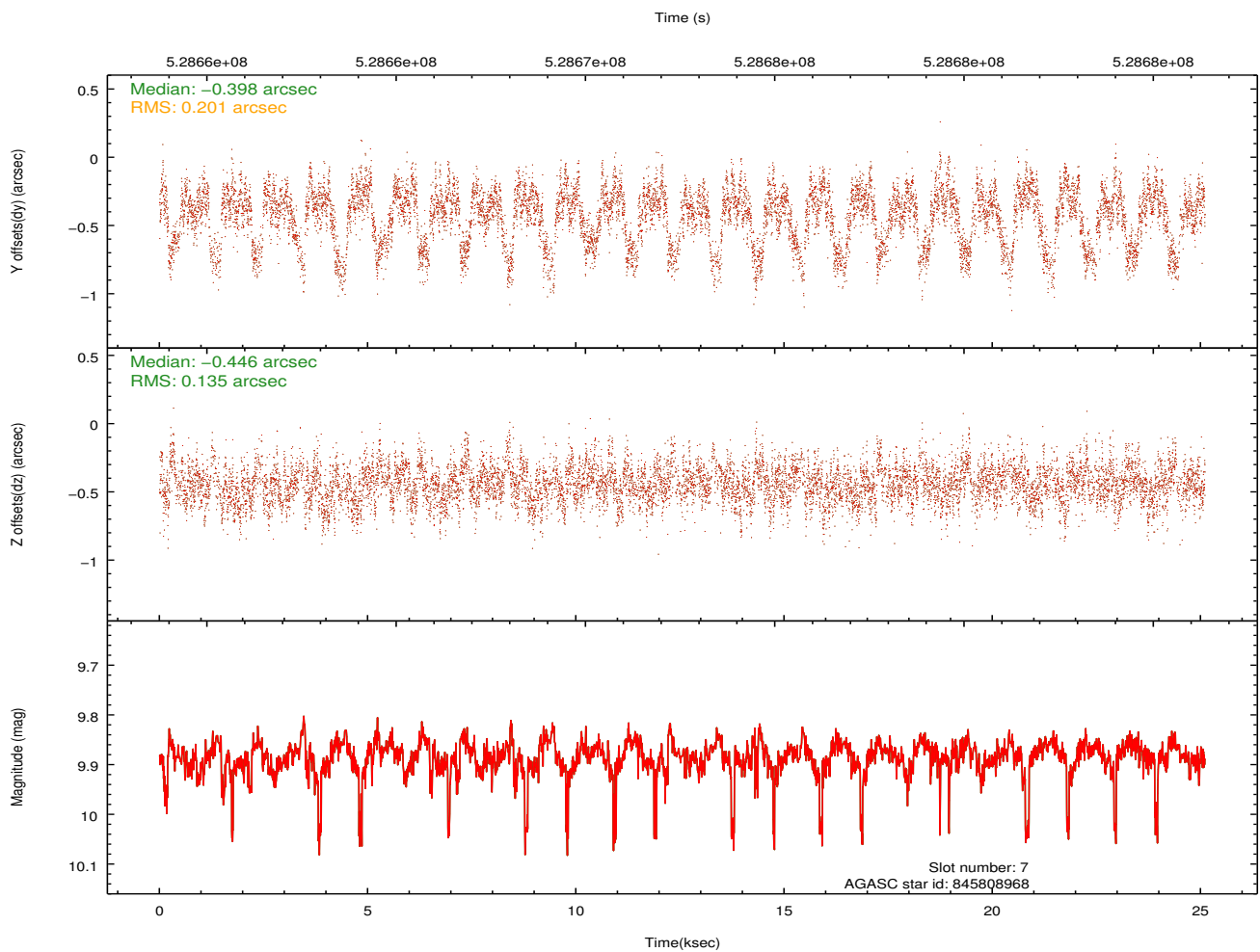
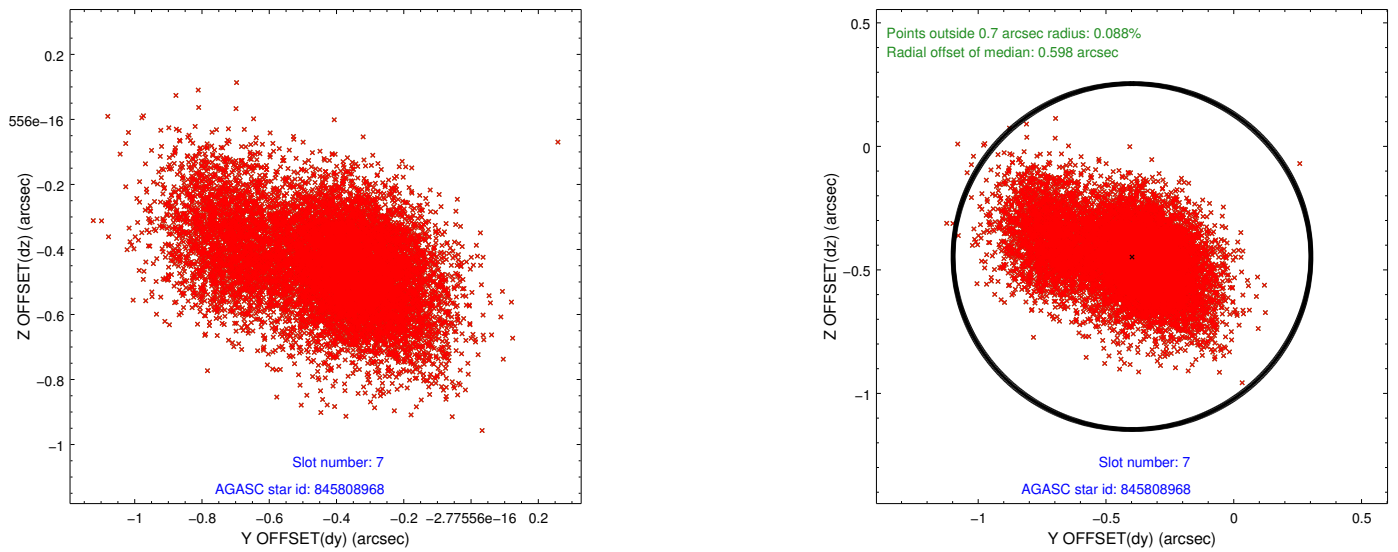
### 2.4.3 Slot 5



## 2.4.4 Slot 6

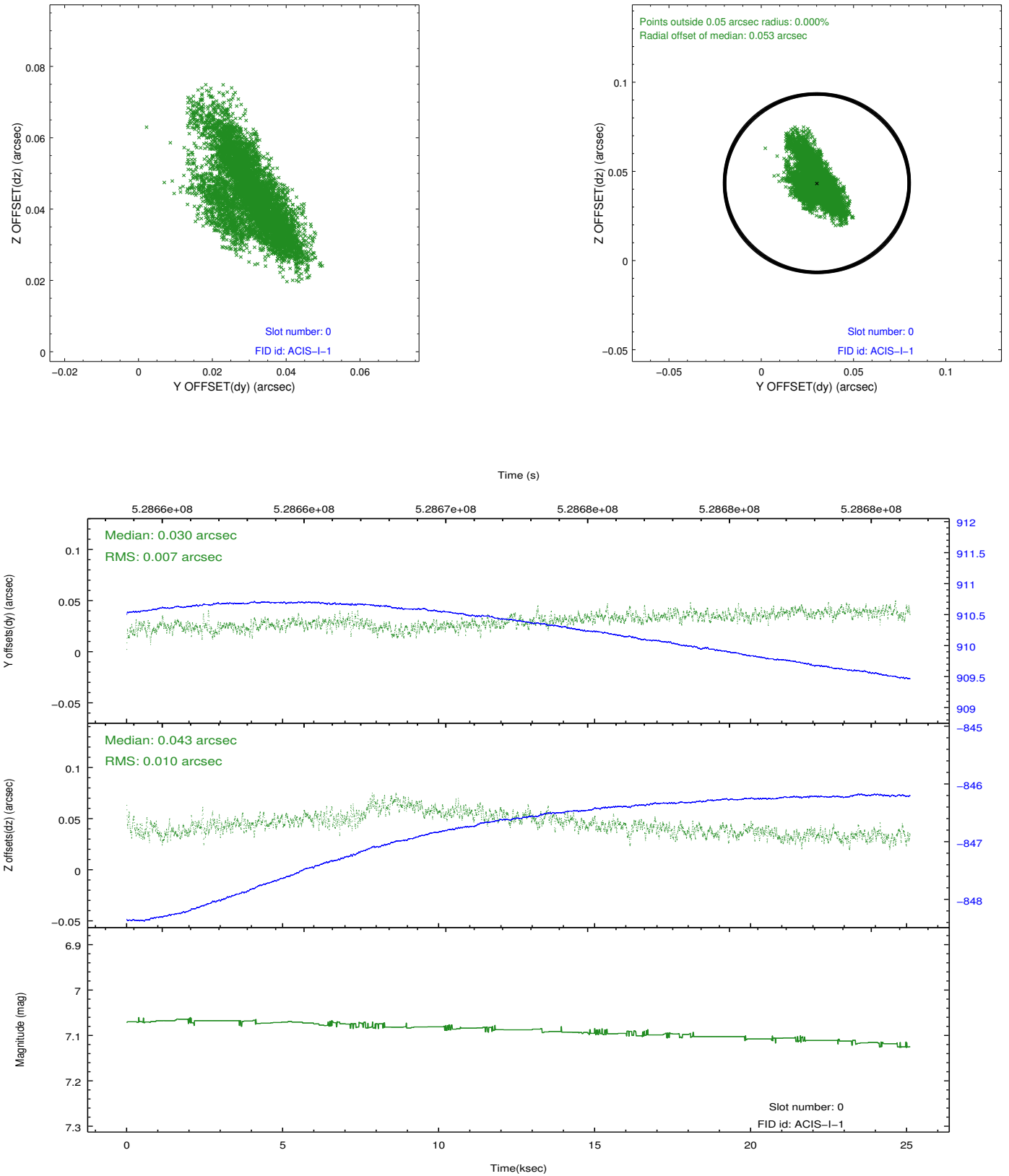


## 2.4.5 Slot 7

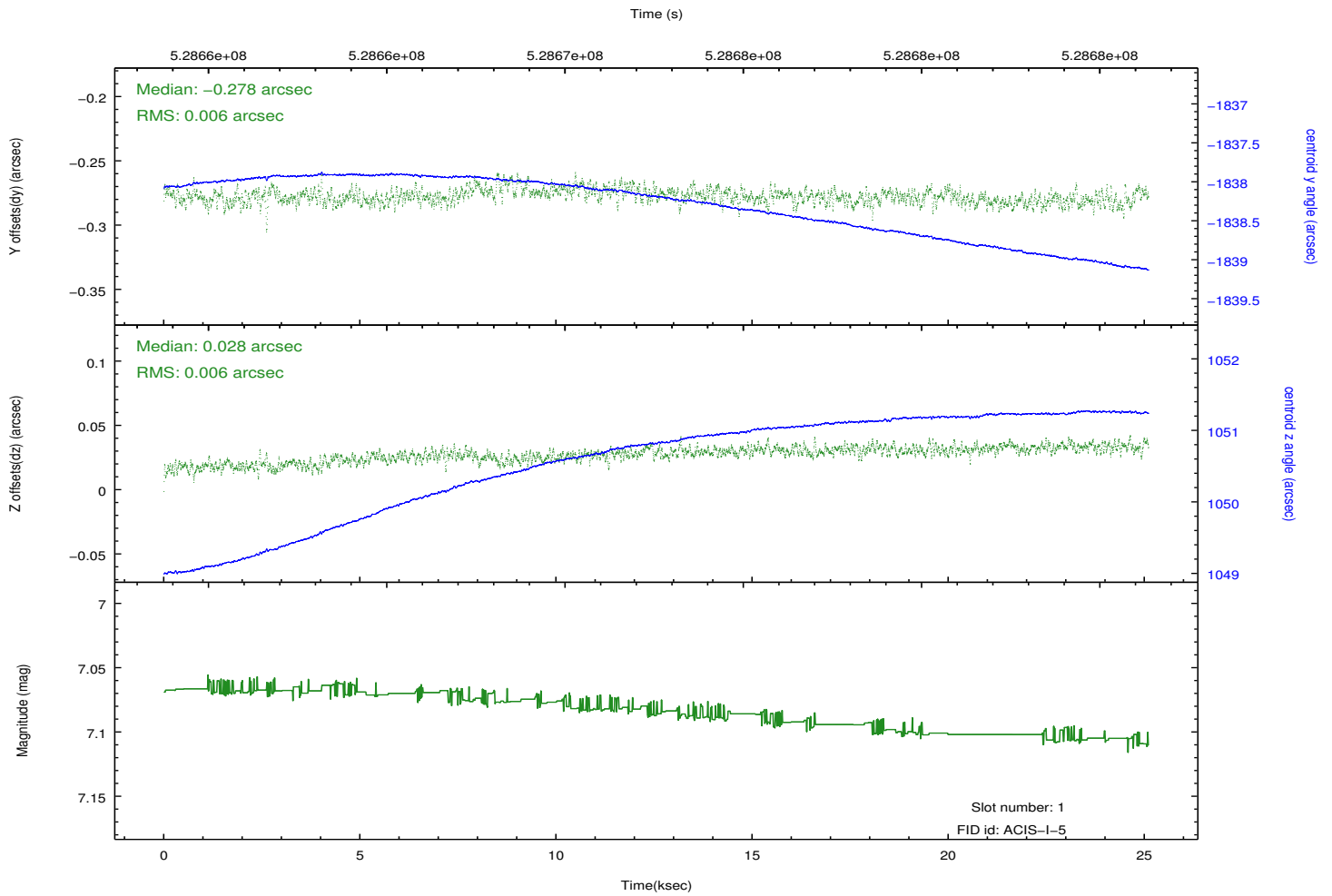
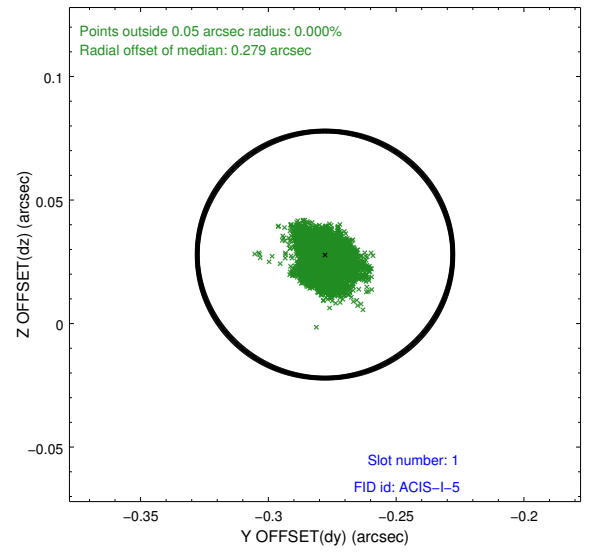
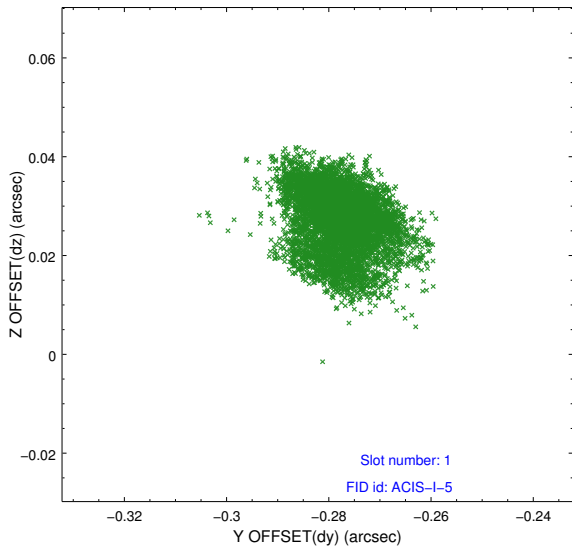


## 2.5 FID Slots

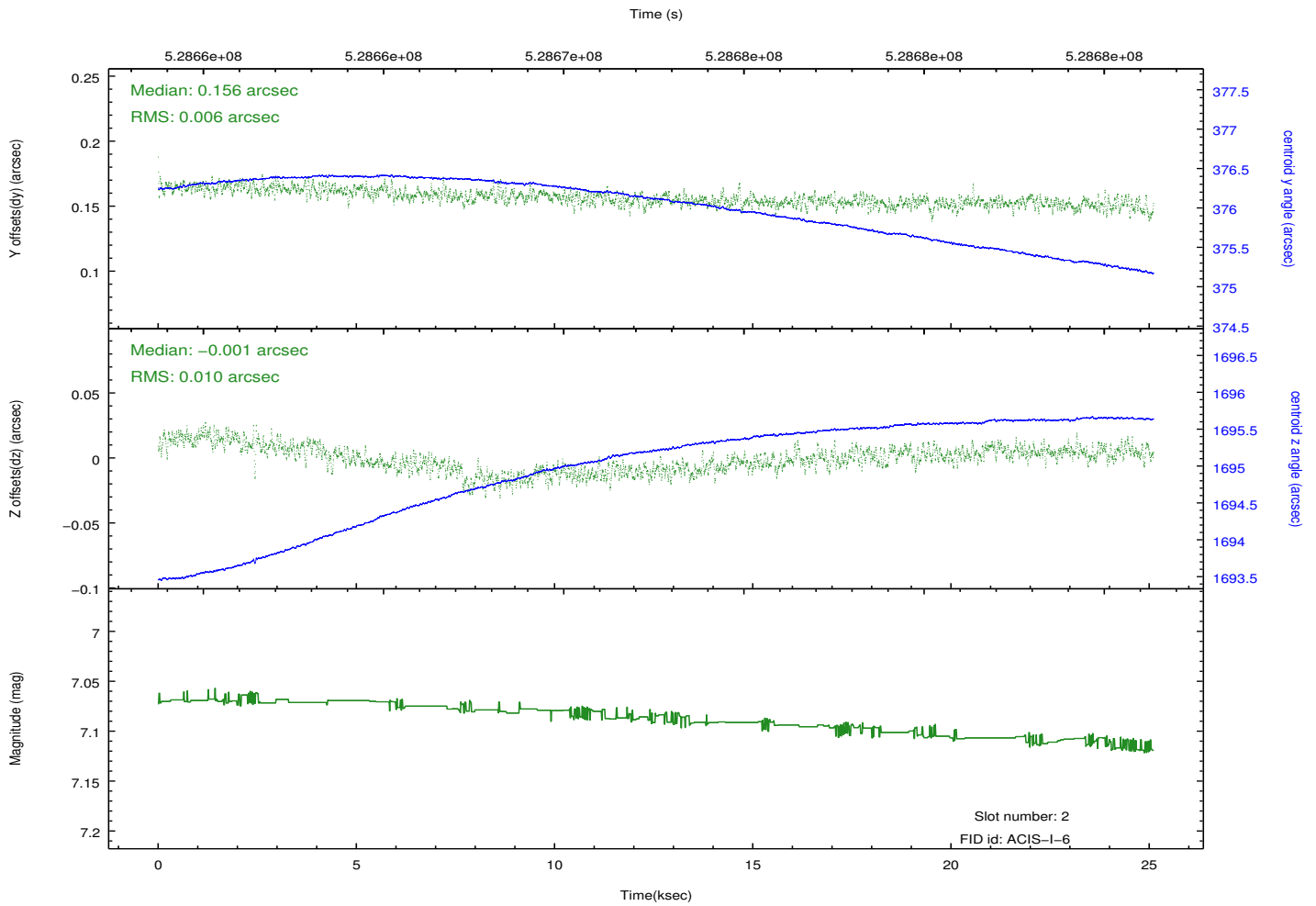
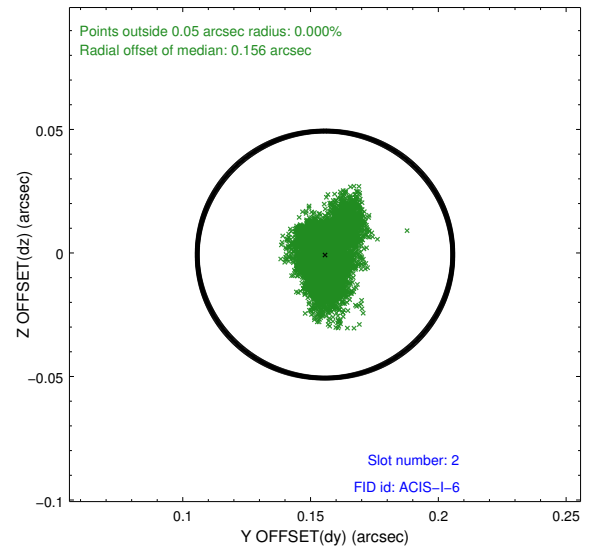
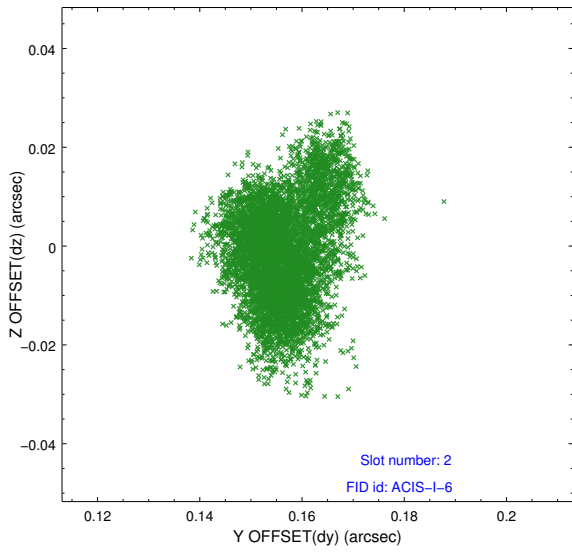
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.004463051021

## A.2 Comments