

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16454 - L2 Version 1  
Chandra X-Ray Center

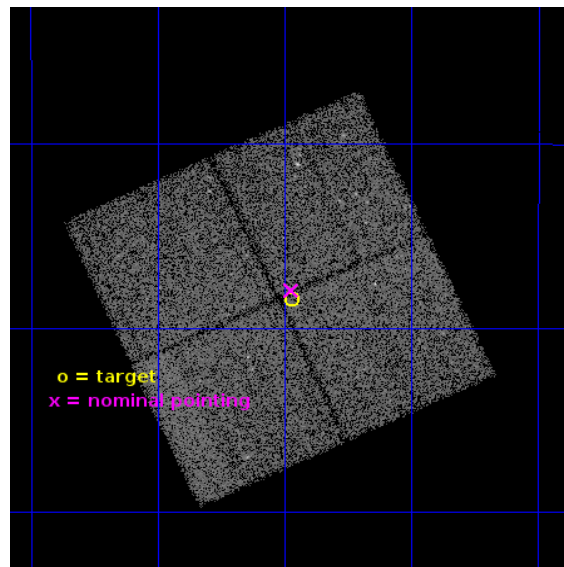
L2 Processing Date : Oct 1 2014

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# 1 Front

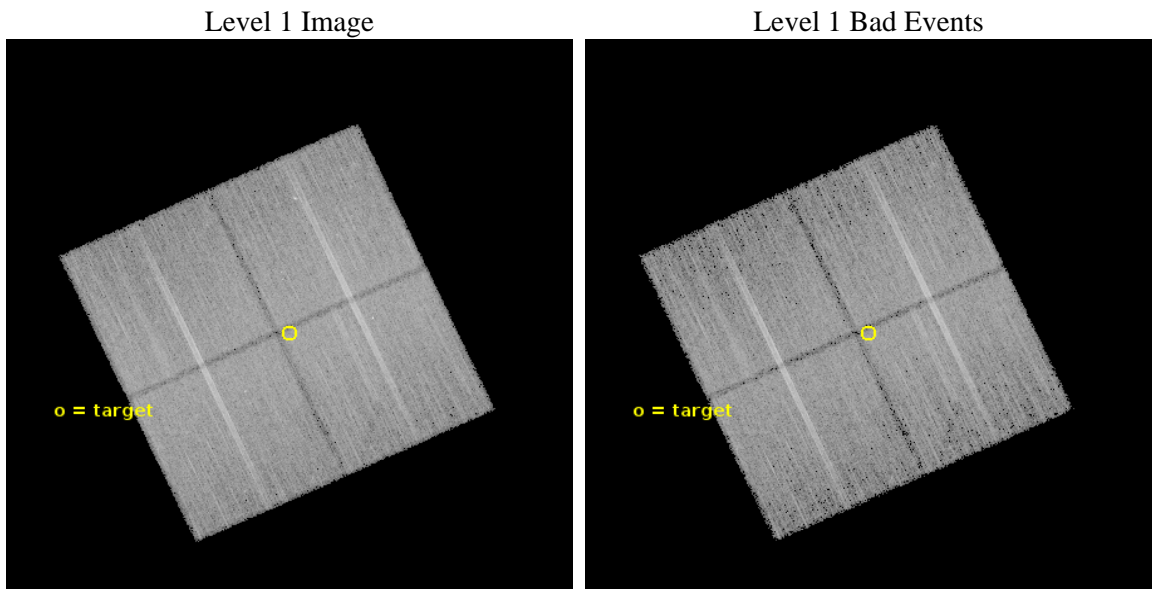
seq_num	901115	Sequence number
obs_id	16454	Observation id
title	The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe	Proposal title
observer	Prof. W.N. Brandt	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	&#160
cycle	P	events 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	53.118280793516	Nominal RA [deg]
dec_nom	-27.799210340036	Nominal Dec [deg]
roll_nom	65.209253943032	Nominal Roll [deg]
revision	1	Processing version of data
ontime	47757.59862864	Sum of GTIs [s]
livetime	47133.610443924	Livetime [s]
ontime0	47751.193488002	Sum of GTIs [s]
ontime1	47751.234537959	Sum of GTIs [s]
ontime2	47757.557588637	Sum of GTIs [s]
ontime3	47757.59862864	Sum of GTIs [s]
l2events	94098	Number of level 2 events



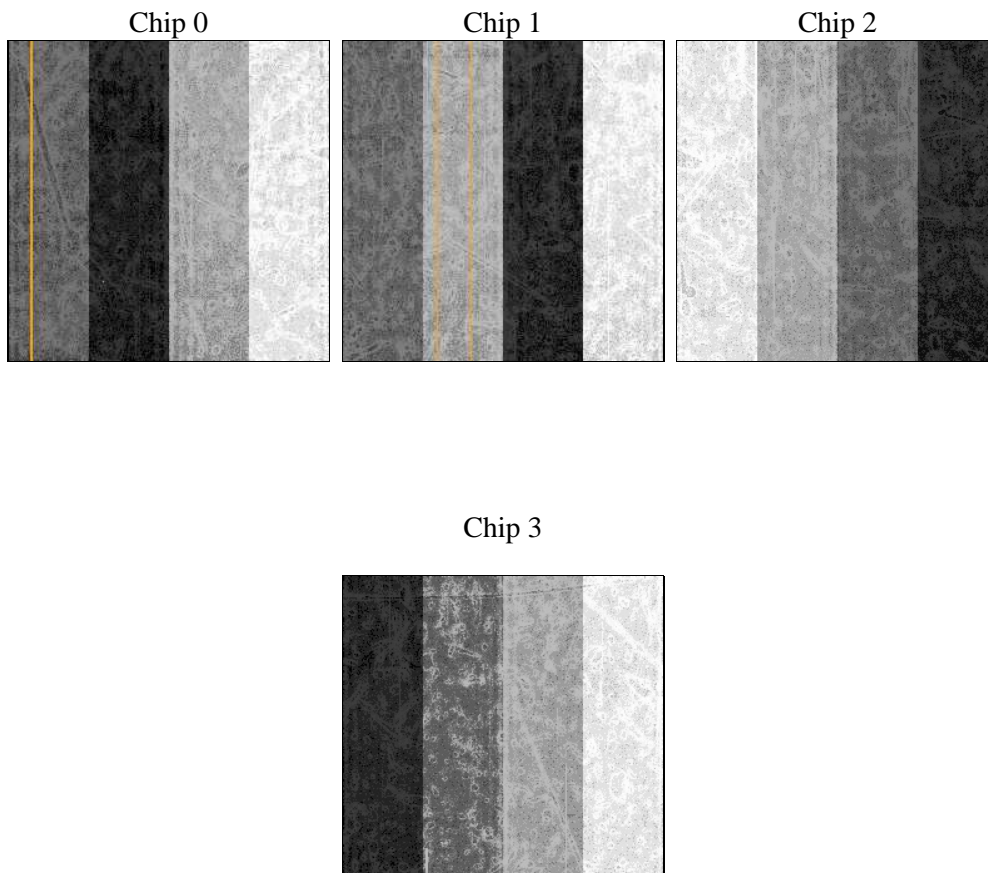
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47665.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	47757.59862864	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime0	47751.193488002	Sum of GTIs [s]
date	2014-10-02T02:42:23	Date and time of file creation	ontime1	47751.234537959	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	47757.557588637	Sum of GTIs [s]
			ontime3	47757.59862864	Sum of GTIs [s]
			l1events	889947	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	212608	218046	229261	230032
rejected events	184933	187648	201227	203716
rejected %	86%	86%	87%	88%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9387	10170	10219	9114
	4%	4%	4%	3%
grade 1 events	115	111	150	118
	0%	0%	0%	0%
grade 2 events	6834	7527	6756	6038
	3%	3%	2%	2%
grade 3 events	2944	3036	2733	2755
	1%	1%	1%	1%
grade 4 events	2712	2962	2847	2829
	1%	1%	1%	1%
grade 5 events	11142	11684	10492	12566
	5%	5%	4%	5%
grade 6 events	5802	6706	5483	5582
	2%	3%	2%	2%
grade 7 events	173672	175850	190581	191030
	81%	80%	83%	83%

## 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	53.11828079351572	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.826695	-27.79921034003635	Alternating exposures requested	N	N
[deg] Pointing Roll	65.001928	65.20925394303211	[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	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	528517625.184000	528516667.60998			
Observation start date	2014-10-01T02:25:58	2014-10-01T02:11:07			
[s] Observation end time (MET)	528565290.184000	528566140.77523			
Observation end date	2014-10-01T15:40:23	2014-10-01T15:55:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



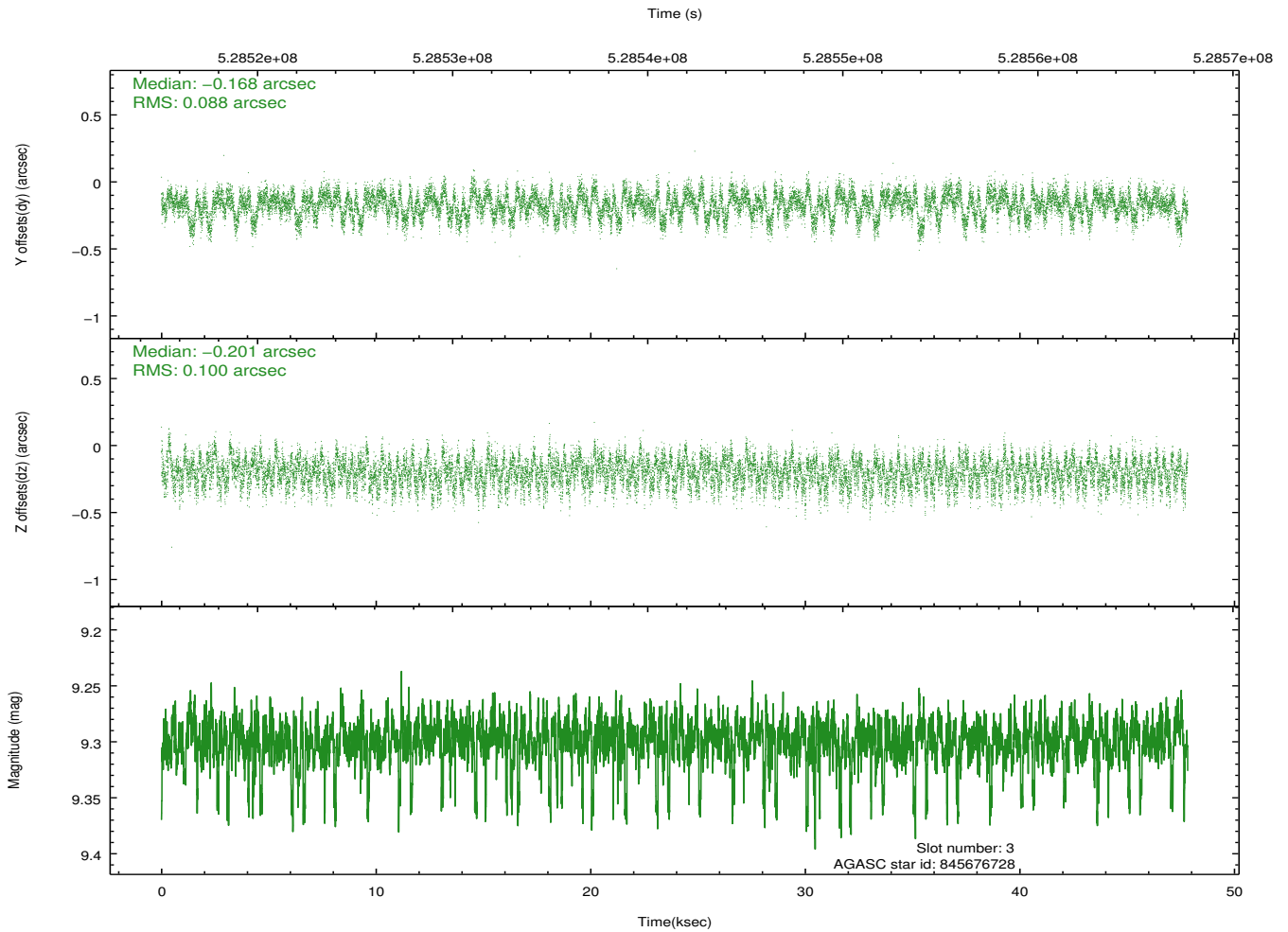
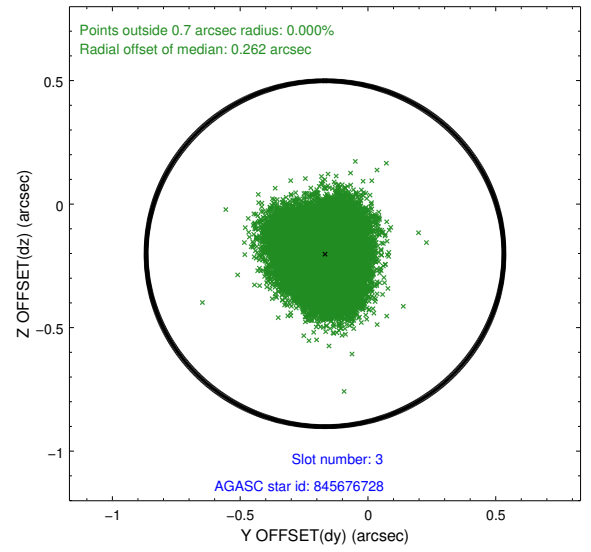
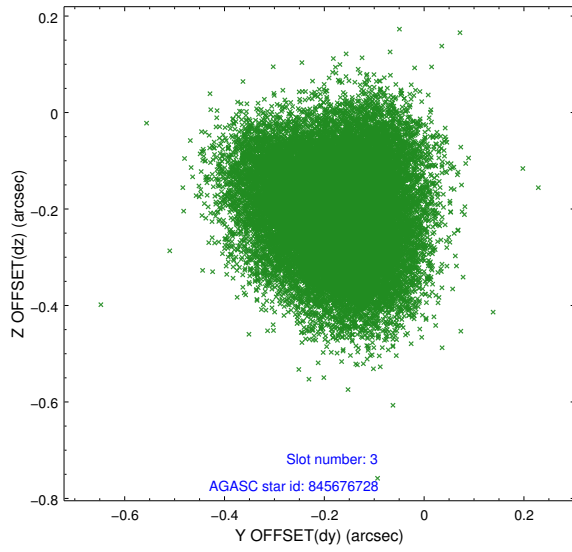
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.11	11666	0.060	-0.037	0.010	0.018	0.000000	0.000000	912.74	-844.80
1	FID	ACIS-I-5	7.09	11663	-0.301	0.035	0.007	0.013	0.000000	0.000000	-1835.79	1052.68
2	FID	ACIS-I-6	7.10	11666	0.149	0.072	0.008	0.014	0.000000	0.000000	378.31	1697.28
3	GUIDE	845676728	9.30	23308	-0.168	-0.201	0.144	0.224	52.877179	-27.664318	200.47	951.93
4	GUIDE	845676936	9.48	23298	0.044	-0.163	0.176	0.282	52.843773	-27.880153	-547.58	718.08
5	GUIDE	845807880	8.80	23323	0.331	0.169	0.167	0.278	53.382027	-27.886093	156.78	-842.44
6	GUIDE	845808496	10.16	23163	0.351	0.270	0.227	0.368	53.777917	-27.725281	1210.94	-1744.25
7	BAD	845808968	9.89	21810	-0.550	-0.104	0.256	0.439	54.016598	-27.589085	1973.66	-2231.87

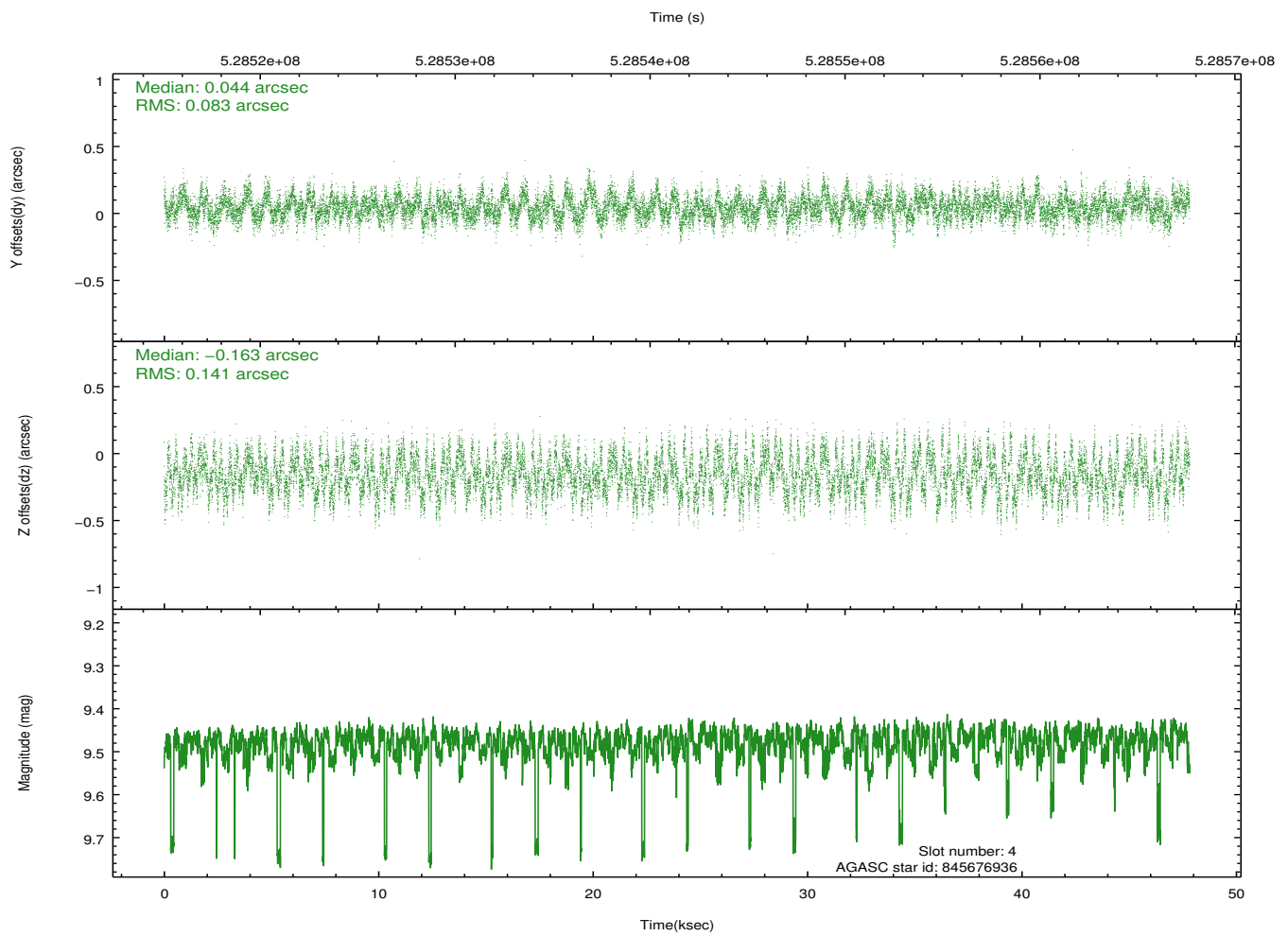
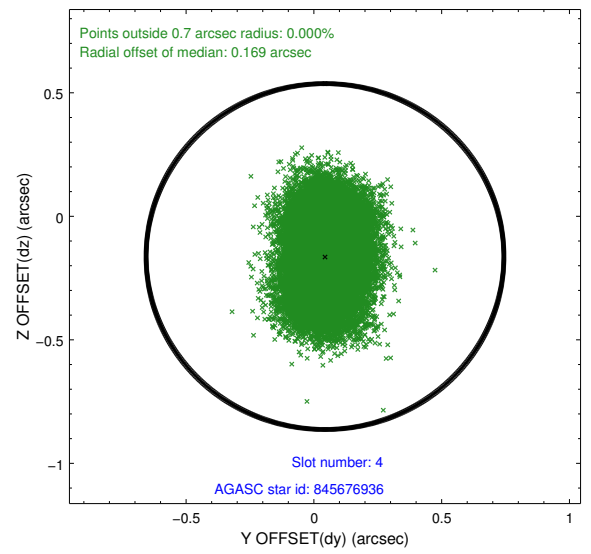
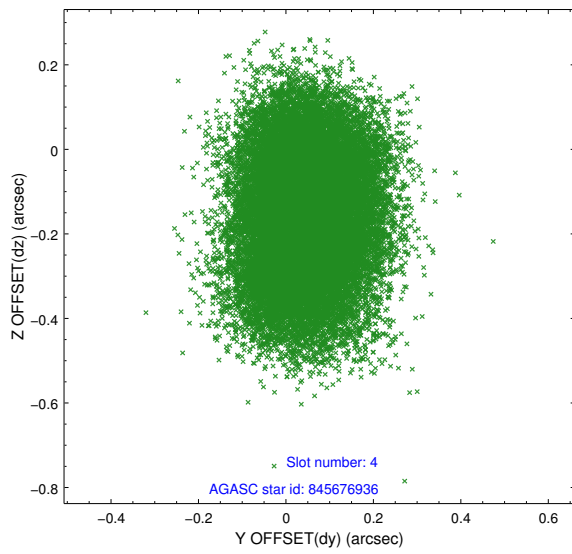
∞

## 2.4 Star Slots

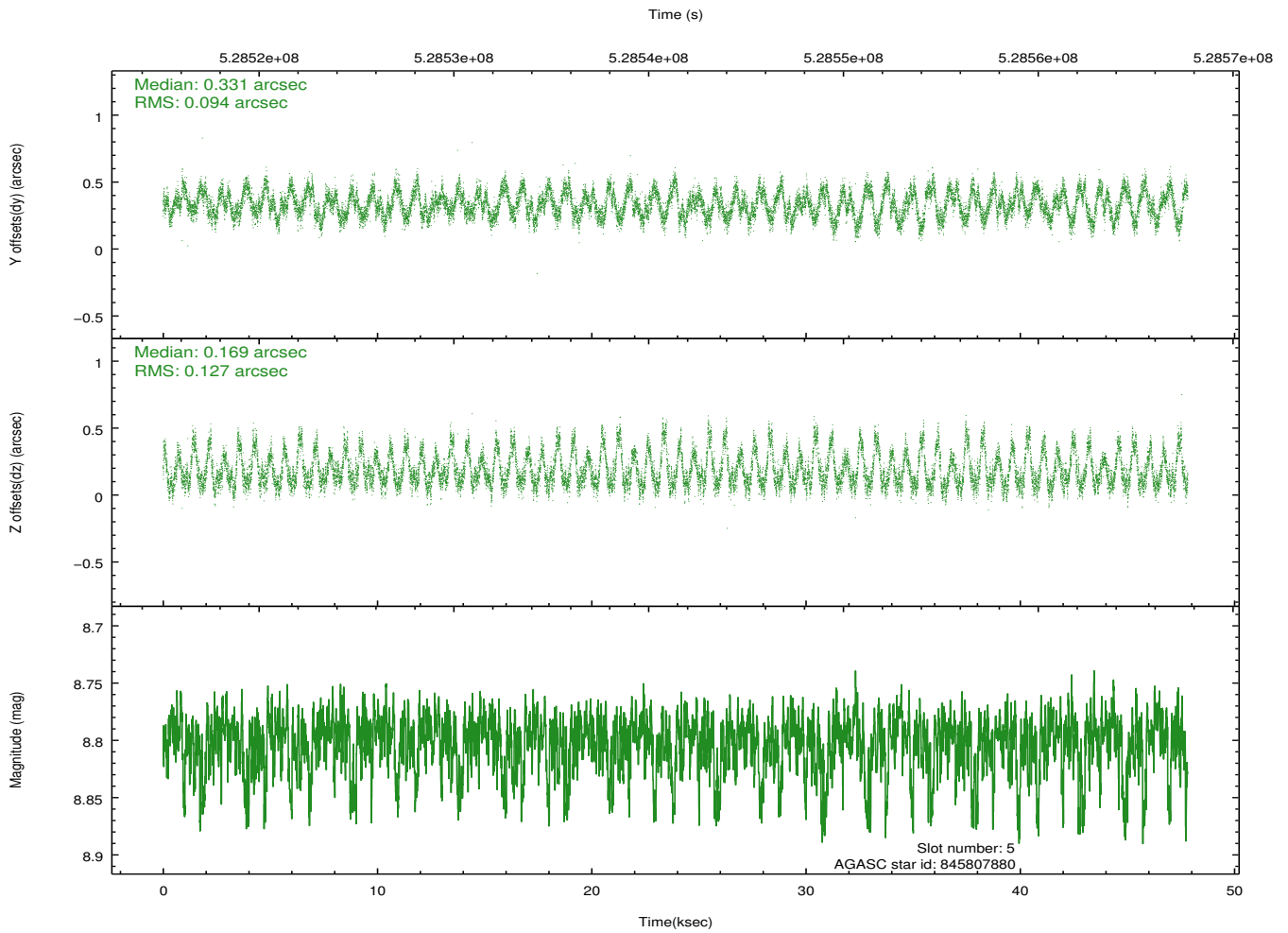
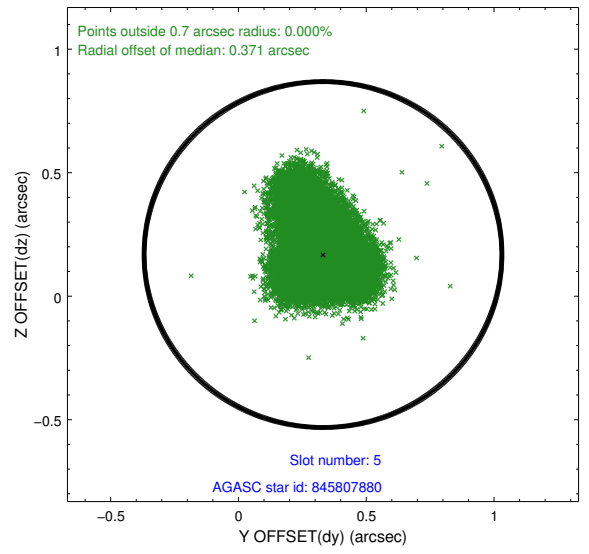
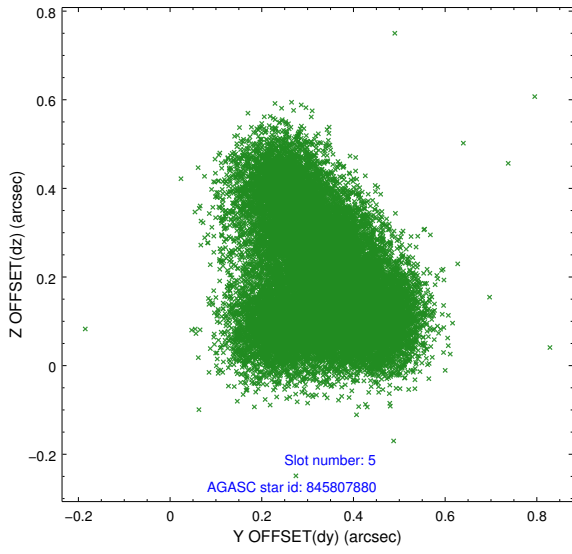
### 2.4.1 Slot 3



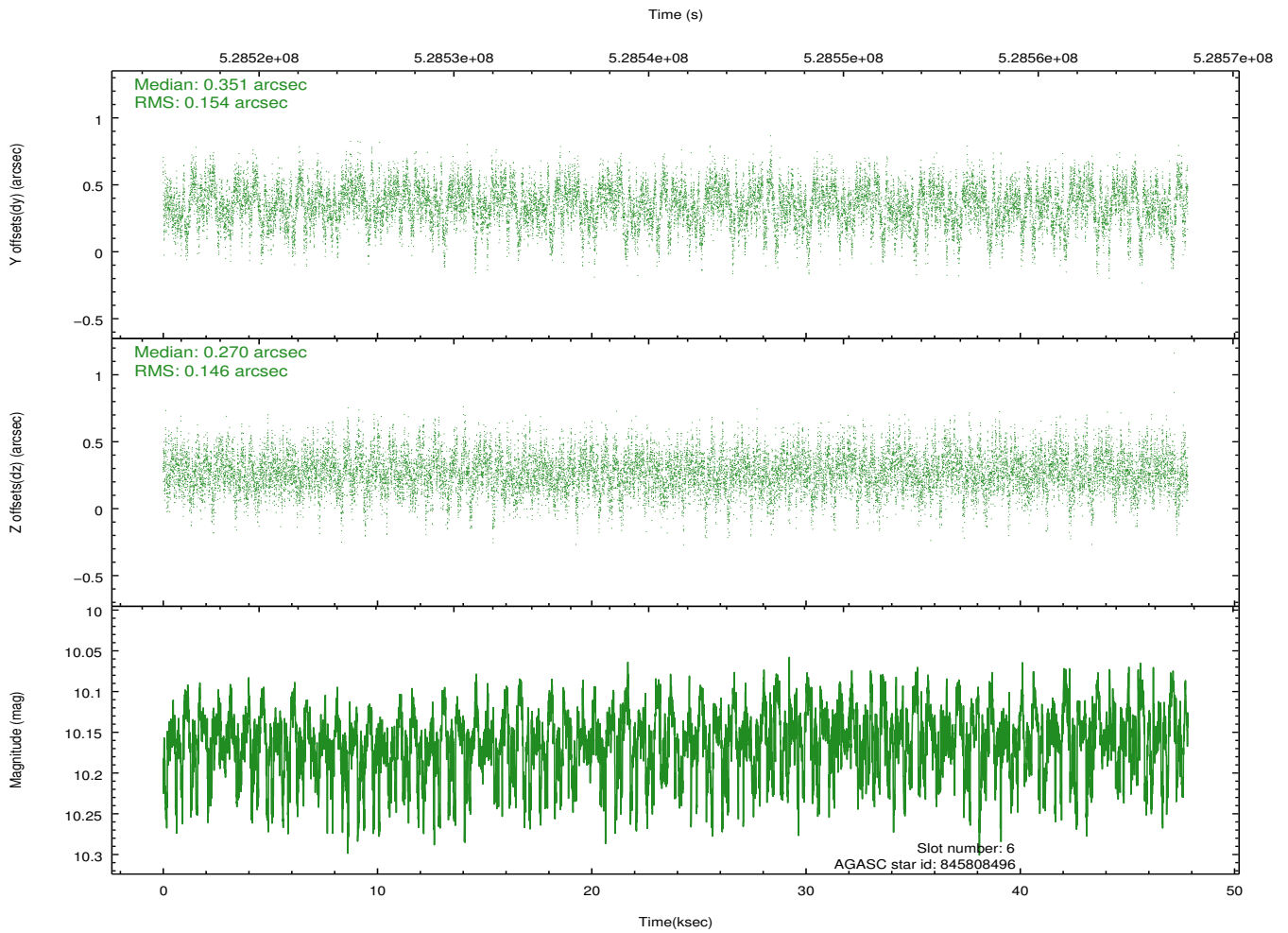
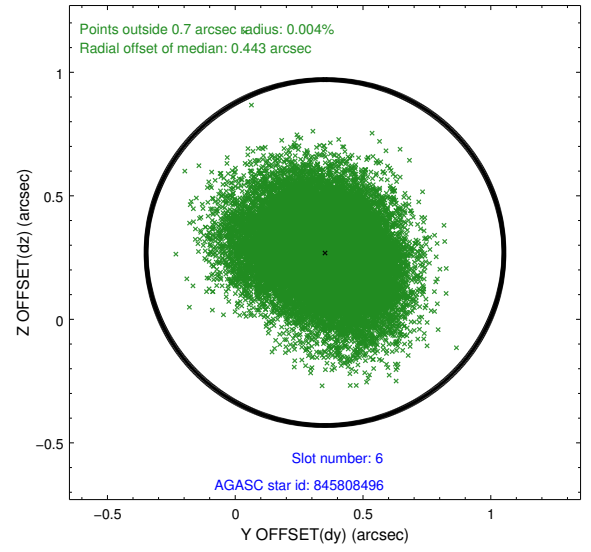
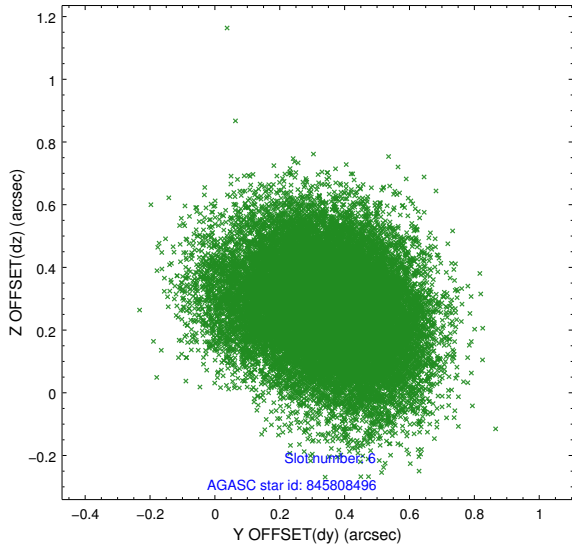
## 2.4.2 Slot 4



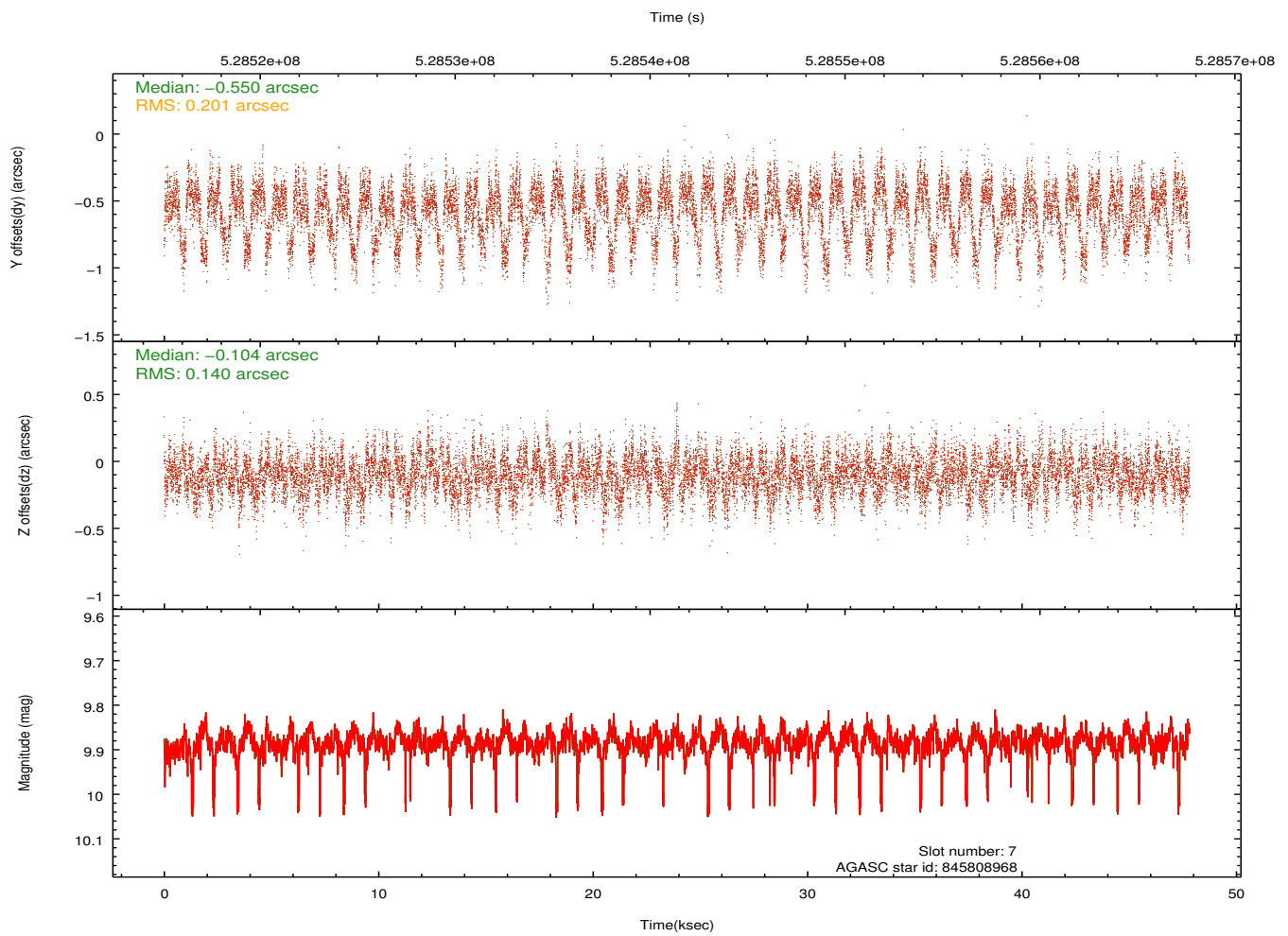
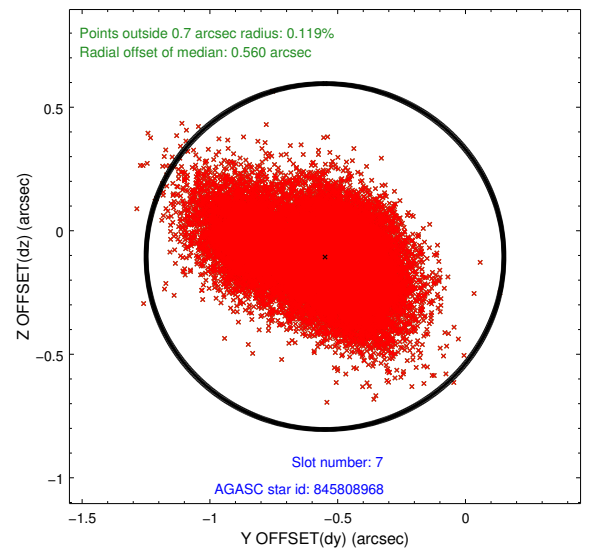
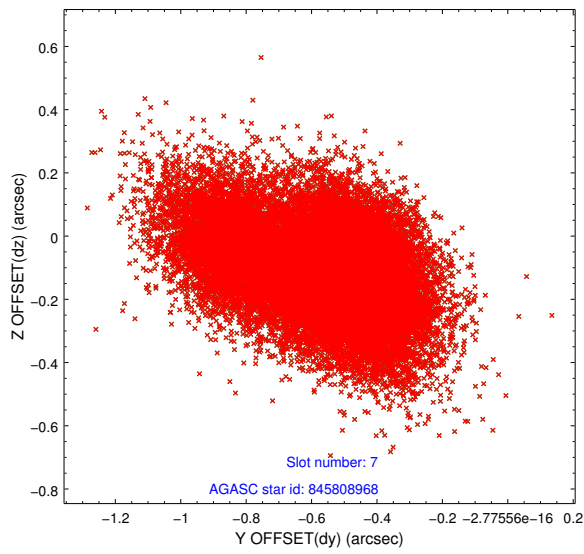
### 2.4.3 Slot 5



### 2.4.4 Slot 6

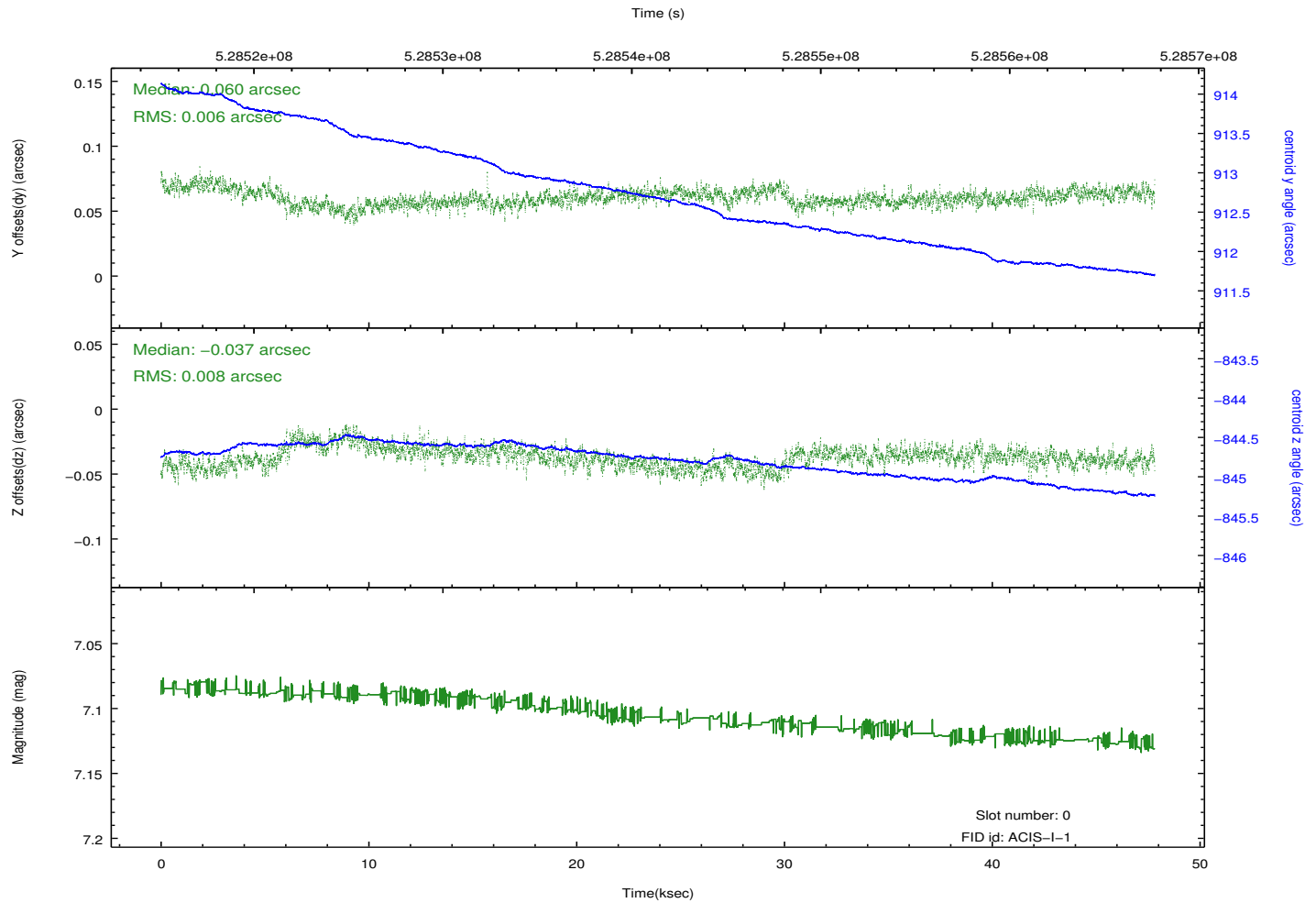
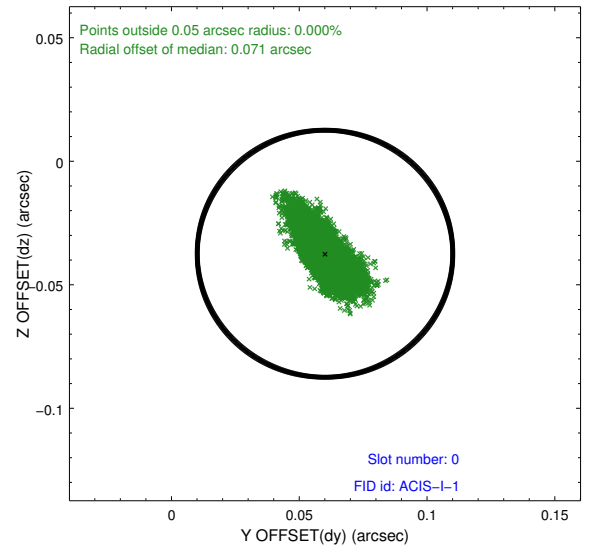
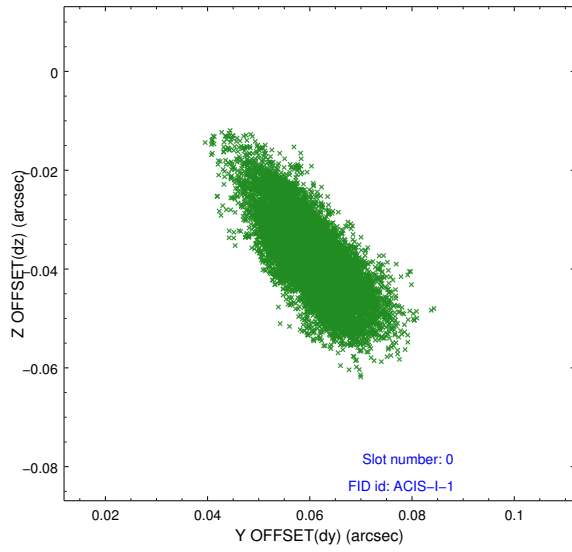


## 2.4.5 Slot 7

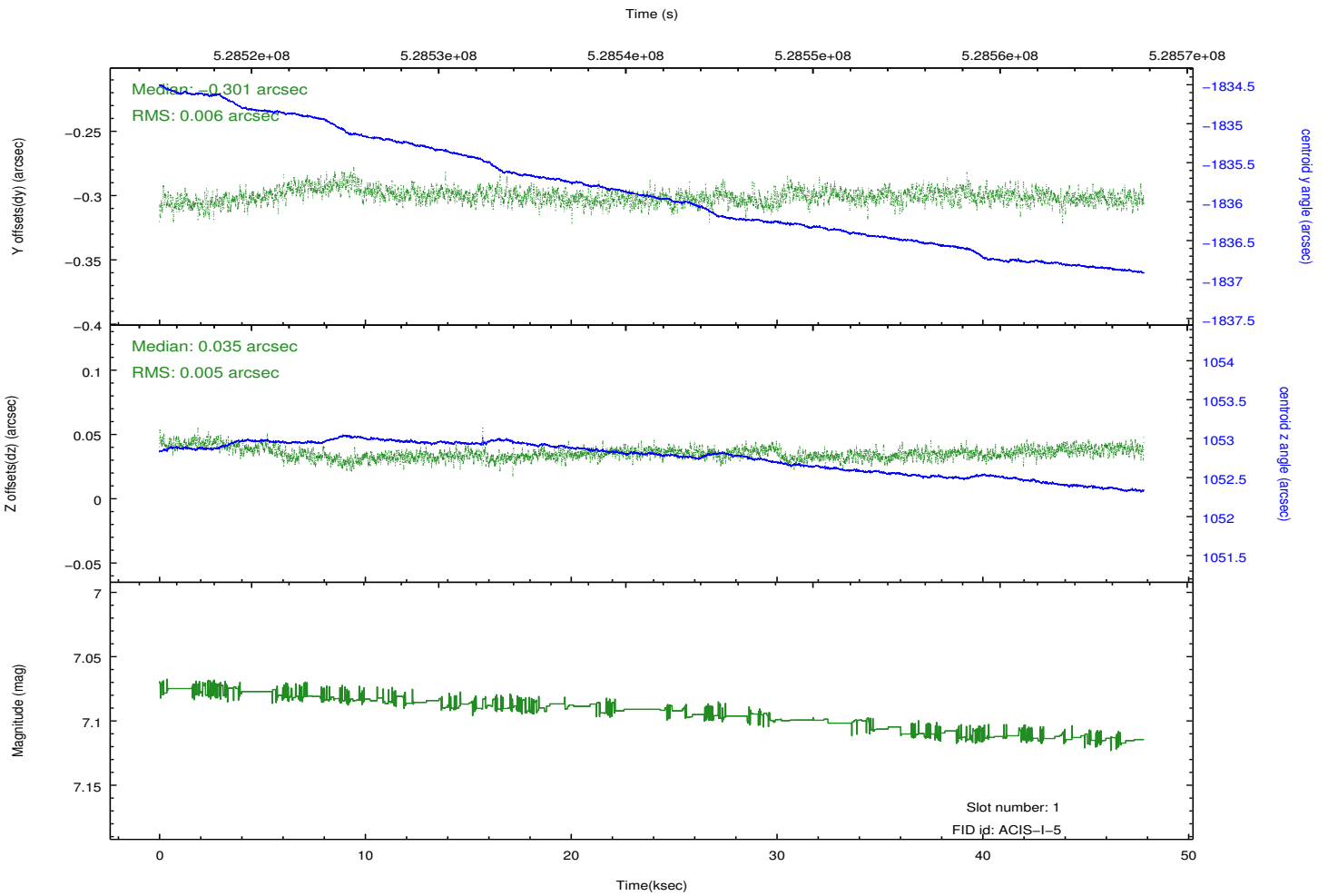
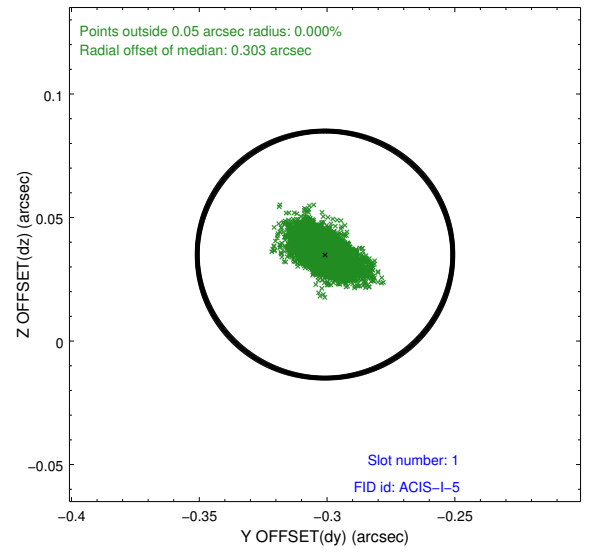
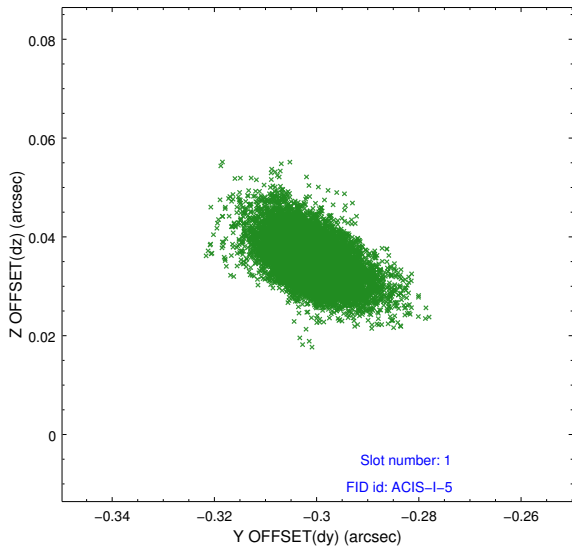


## 2.5 FID Slots

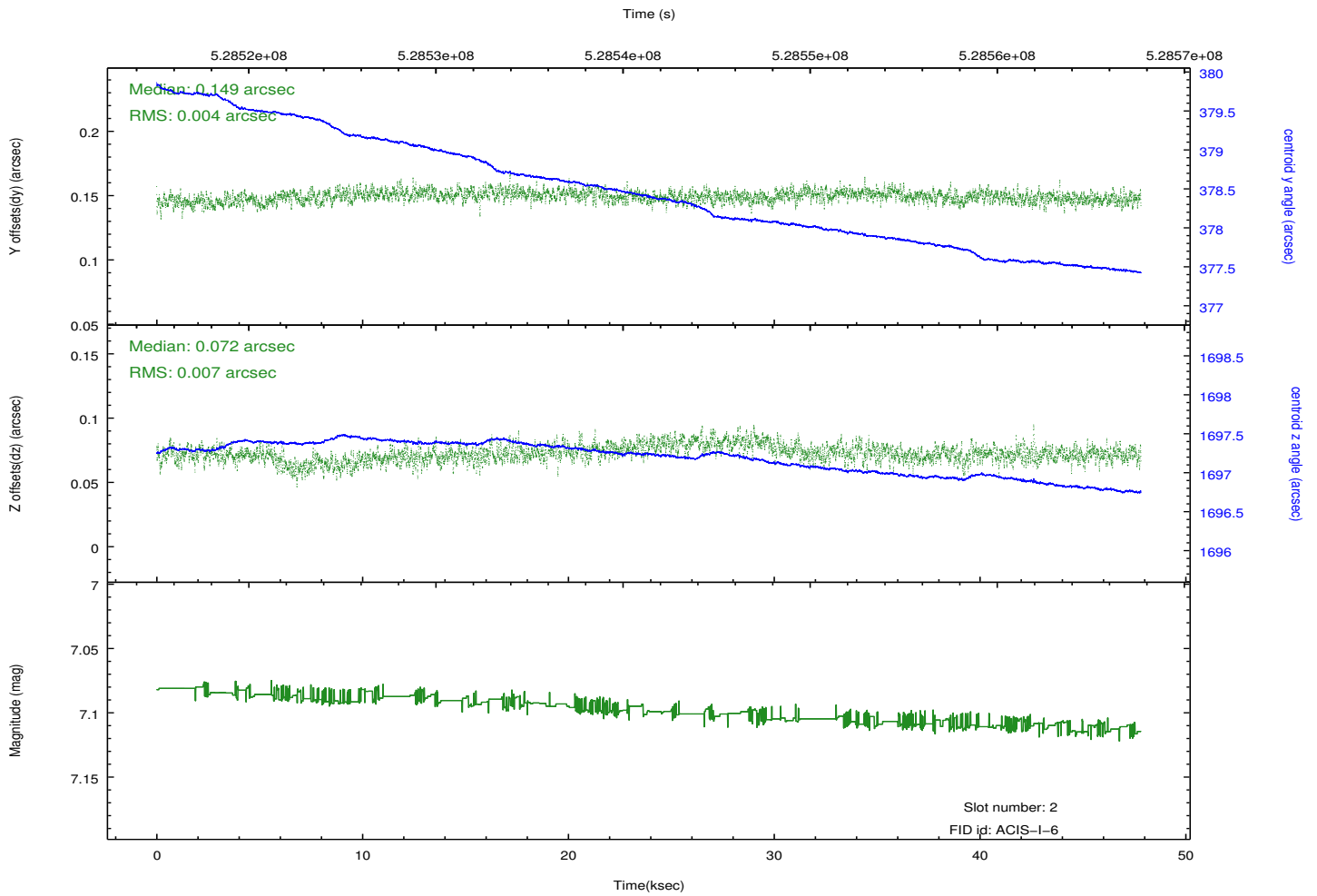
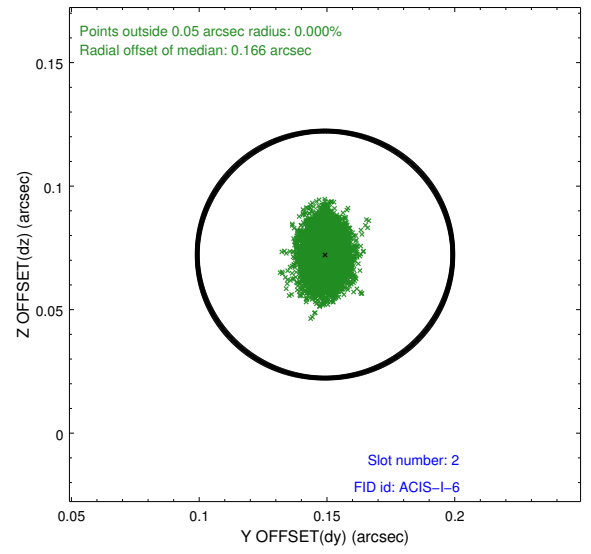
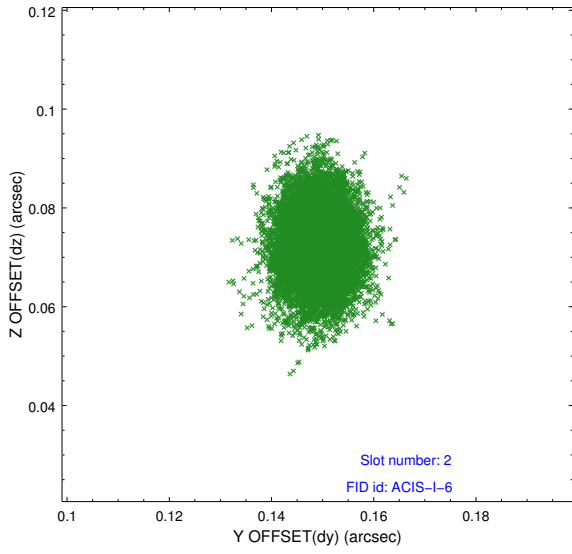
### 2.5.1 Slot 0



## 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)	2014.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.75759862864

### **A.2 Comments**