

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 16165 - L2 Version 2  
Chandra X-Ray Center

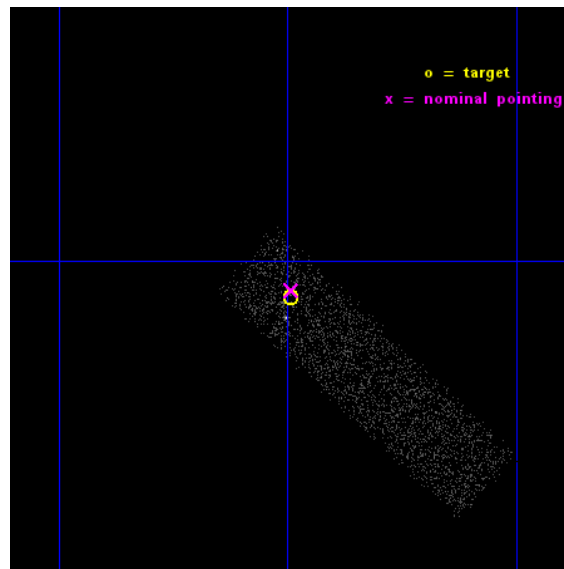
L2 Processing Date : Dec 11 2014

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# 1 Front

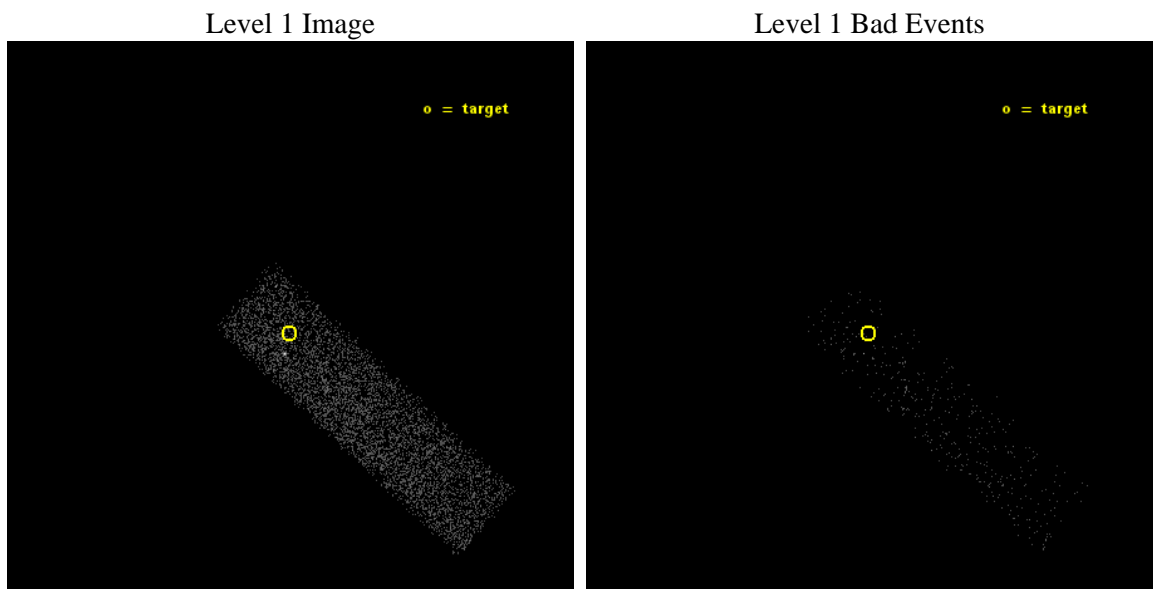
seq_num	901105	Sequence number
obs_id	16165	Observation id
title	Chandra Studies of Unidentified X-ray Sources in the Galactic Bulge	&#160
observer	Dr. Hideyuki Mori	Principal investigator
object	1RXS J174559.6-370055	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.498333	Observer's specified target RA [deg]
dec_targ	-37.015278	Observer's specified target Dec [deg]
ra_nom	266.49779314319	Nominal RA [deg]
dec_nom	-37.012243532338	Nominal Dec [deg]
roll_nom	42.156331820729	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4060.8000605702	Sum of GTIs [s]
livetime	3862.6463051177	Livetime [s]
ontime7	4060.8000605702	Sum of GTIs [s]
l2events	3822	Number of level 2 events



## 2 OBI

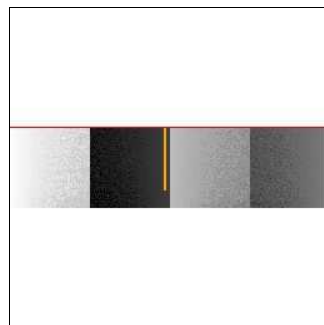
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	4060.8000605702	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime7	4060.8000605702	Sum of GTIs [s]
date	2014-12-11T22:51:11	Date and time of file creation	l1events	7482	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	7482
rejected events	3546
rejected %	47%

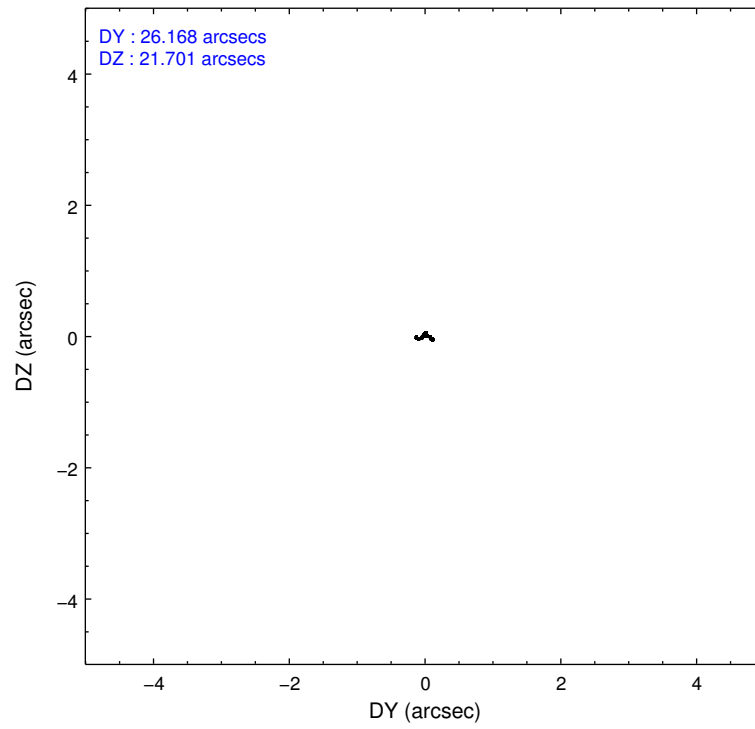
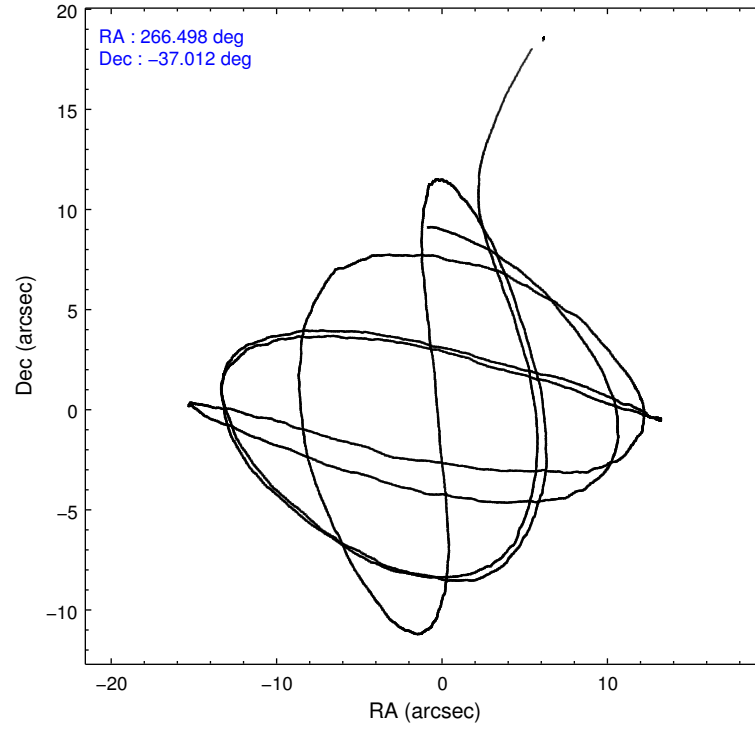
	<b>ccd 7</b>
grade 0 events	534
	7%
grade 1 events	10
	0%
grade 2 events	844
	11%
grade 3 events	470
	6%
grade 4 events	414
	5%
grade 5 events	774
	10%
grade 6 events	1676
	22%
grade 7 events	2760
	36%

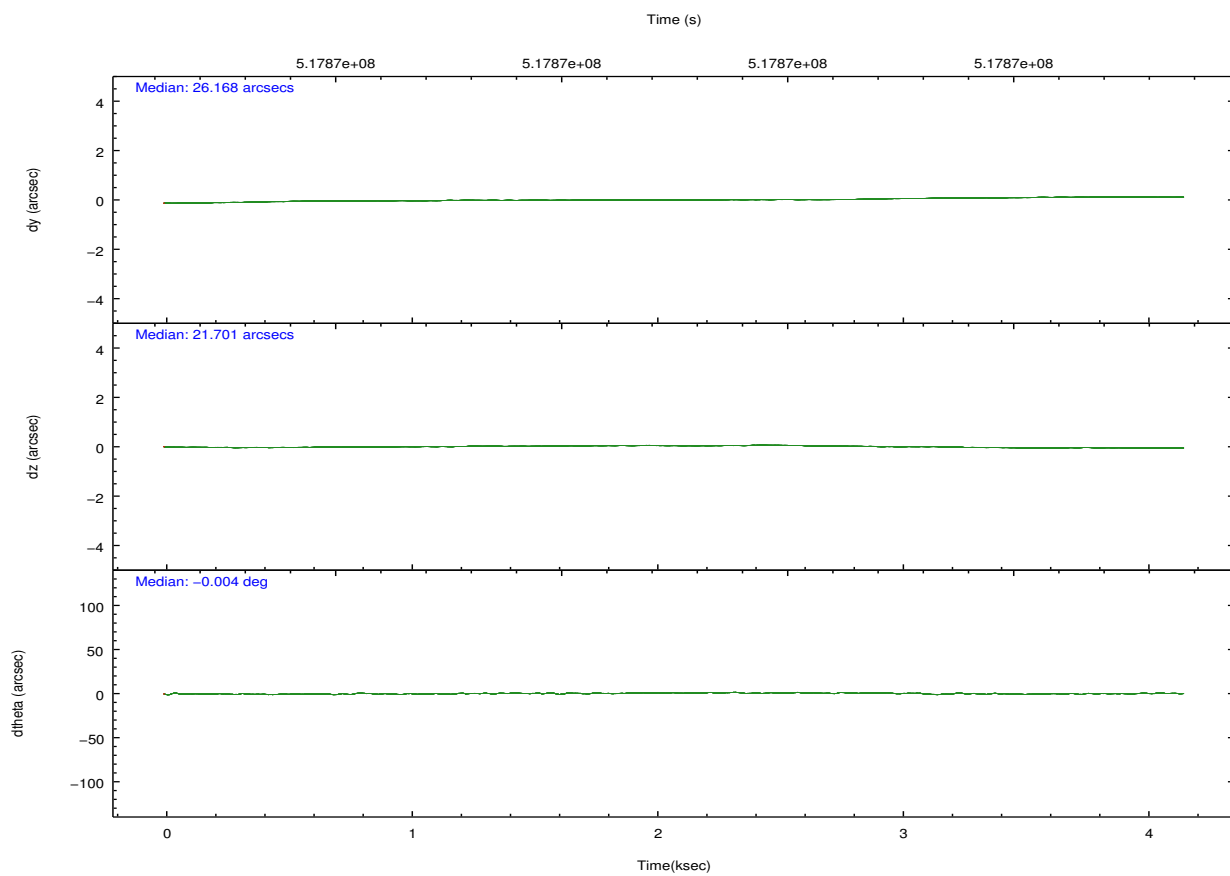
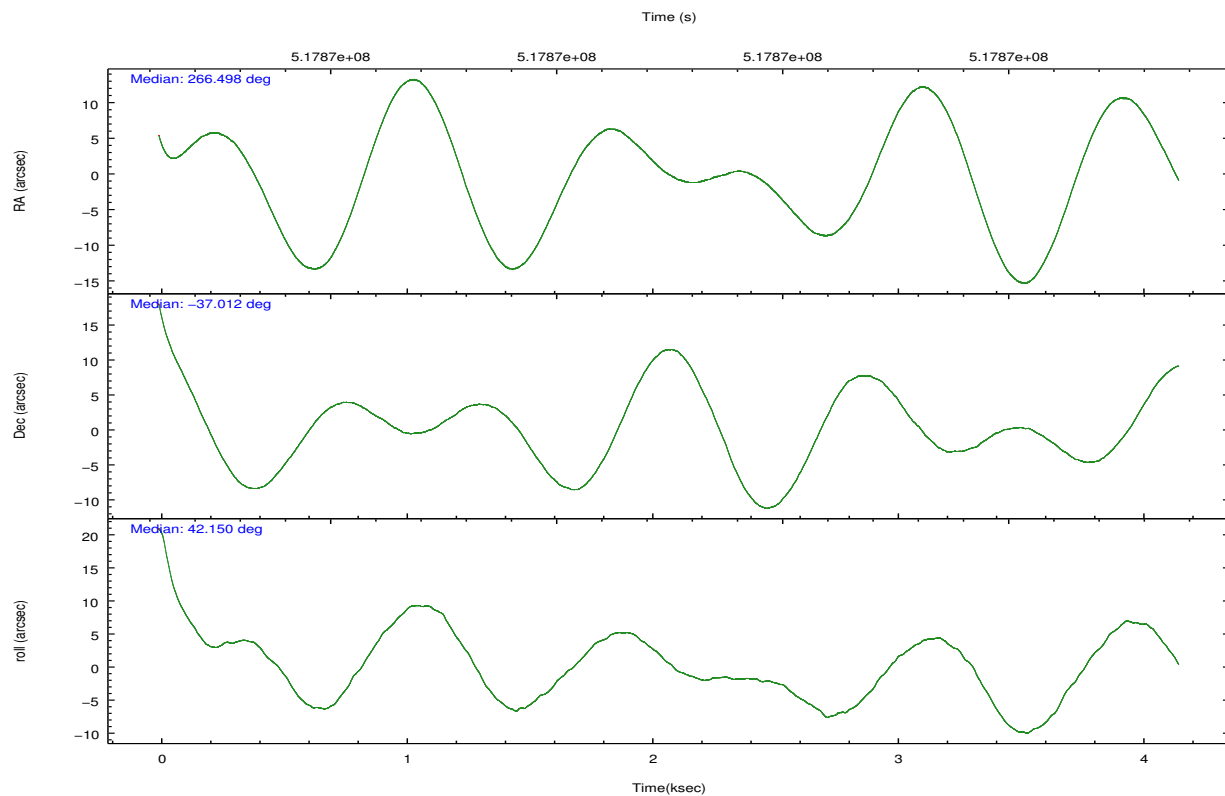


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	266.487645	266.4977931431892	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-37.038439	-37.01224353233774	Subarray start row	385	385
[deg] Pointing Roll	41.993566	42.15633182072933	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	517866573.184000	517865482.53221			
Observation start date	2014-05-30T19:48:26	2014-05-30T19:31:22			
[s] Observation end time (MET)	517870573.184000	517871603.83255			
Observation end date	2014-05-30T20:55:06	2014-05-30T21:13:23			
Read mode	TIMED	TIMED			

## 2.3 Aspect



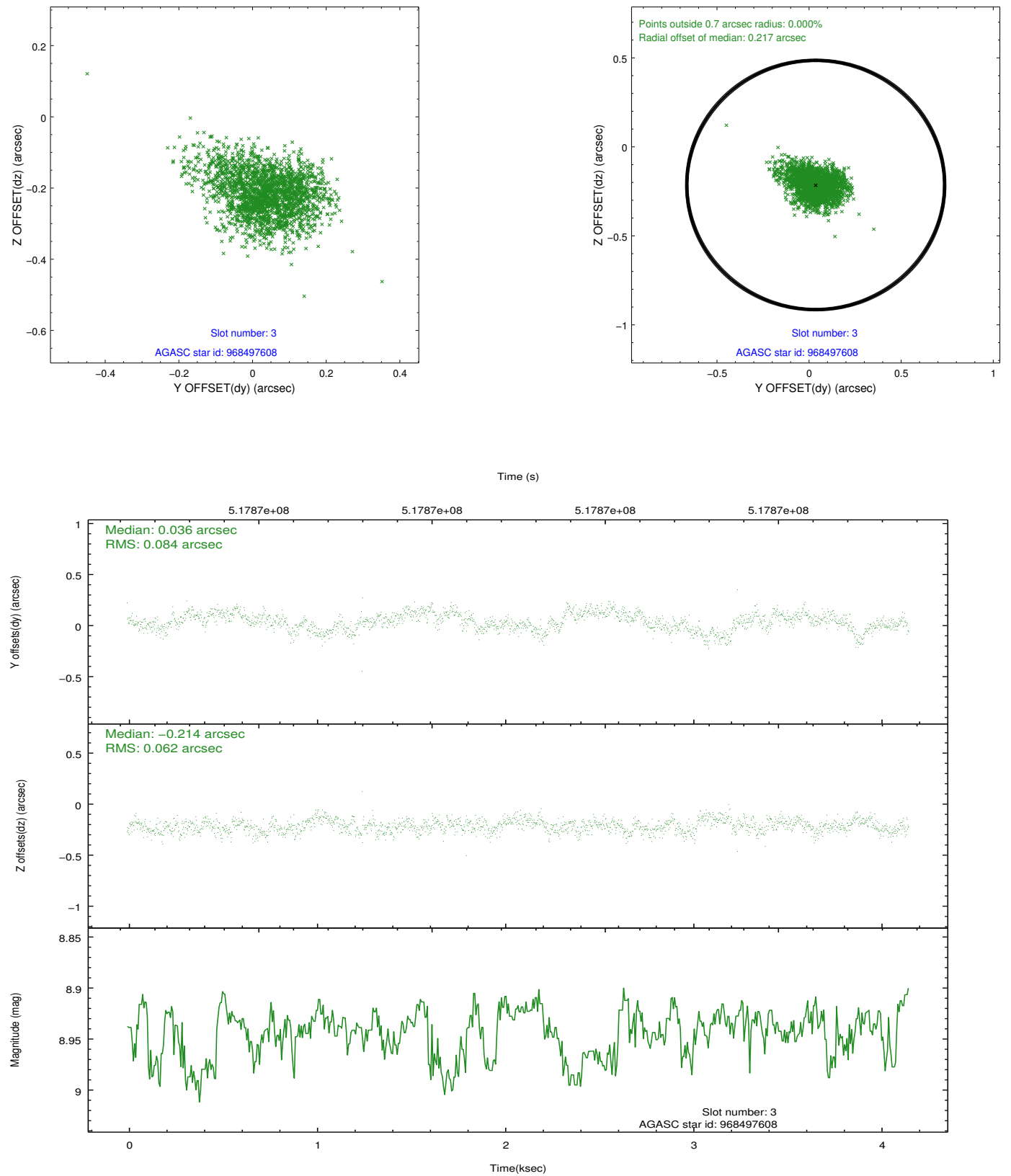


### Slot Statistics

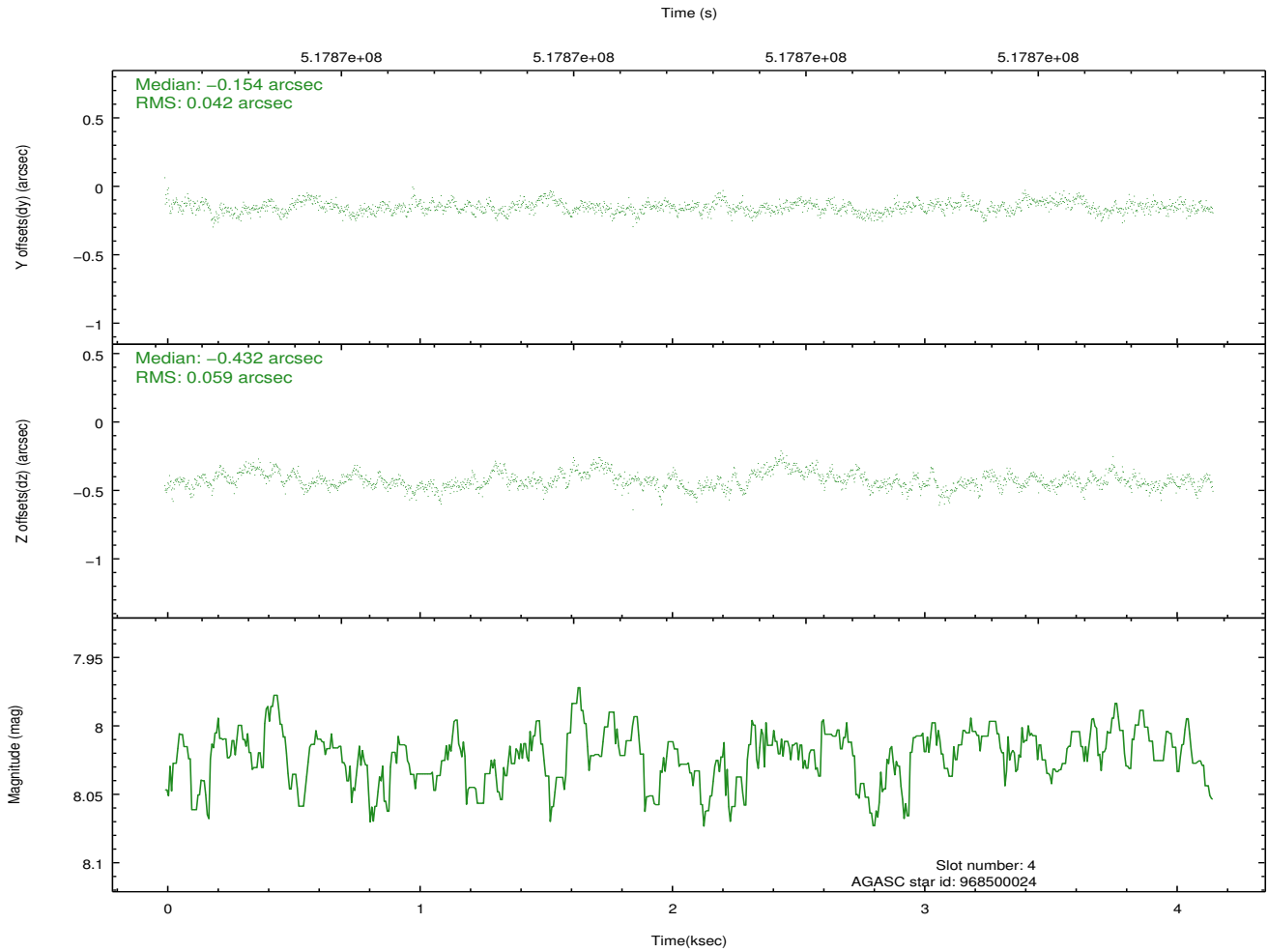
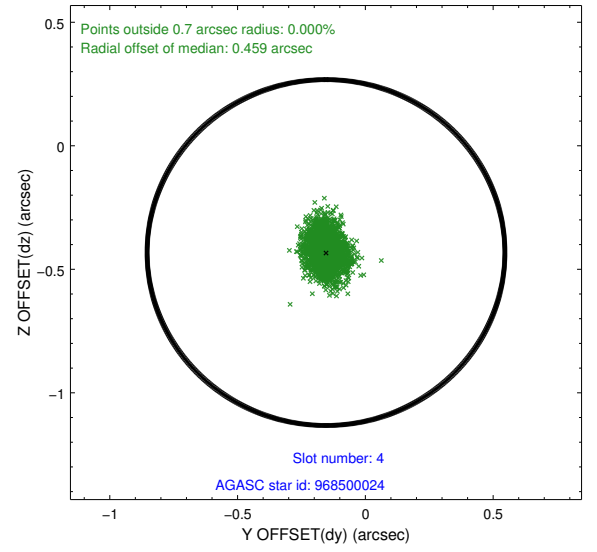
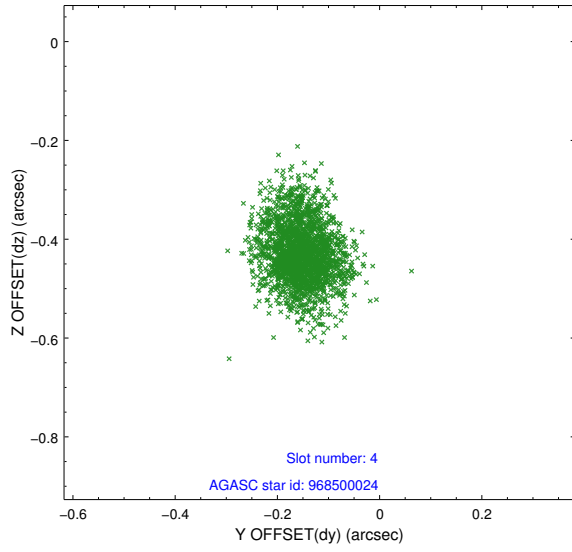
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	1014	-0.162	-0.009	0.008	0.015	0.000000	0.000000	-779.62	-1743.22
1	FID		ACIS-S-4	7.04	1014	0.314	0.081	0.007	0.011	0.000000	0.000000	2133.44	163.79
2	FID		ACIS-S-5	7.07	1013	-0.183	-0.063	0.007	0.013	0.000000	0.000000	-1830.57	159.03
3	GUIDE	used	968497608	8.94	2025	0.036	-0.214	0.107	0.177	265.582289	-36.941153	-1710.76	1993.51
4	GUIDE	used	968500024	8.02	2027	-0.154	-0.432	0.077	0.129	266.017456	-36.772802	-371.40	1616.09
5	GUIDE	used	968503504	8.58	2027	-0.093	-0.260	0.095	0.149	266.716766	-36.547676	1673.29	869.92
6	GUIDE	used	1033508264	8.72	2027	0.280	0.587	0.120	0.215	266.552902	-37.816528	-1734.99	-2205.11
7	GUIDE	used	968496800	7.59	2026	-0.059	0.325	0.093	0.155	267.208106	-37.412075	625.26	-2384.32

## 2.4 Star Slots

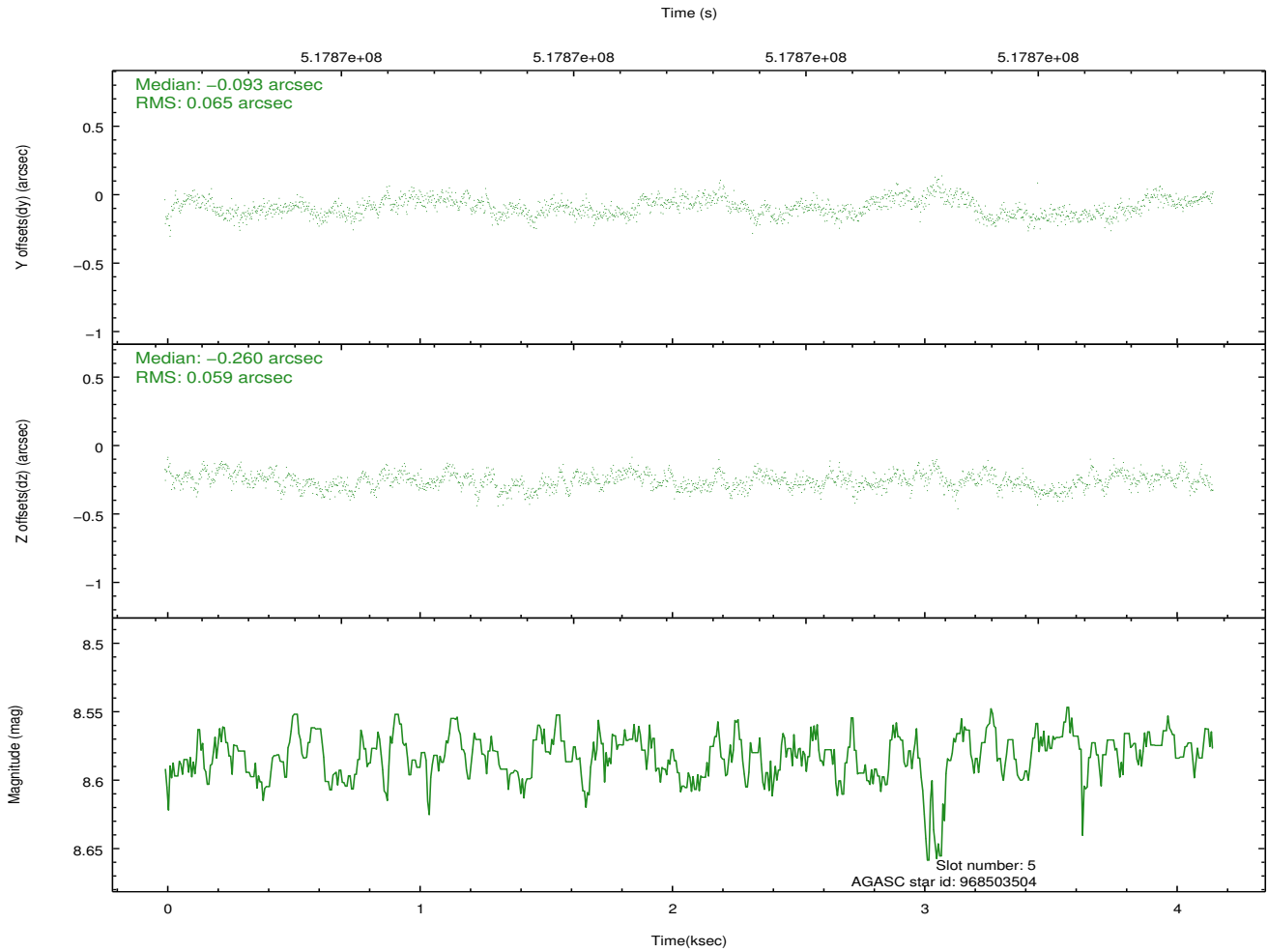
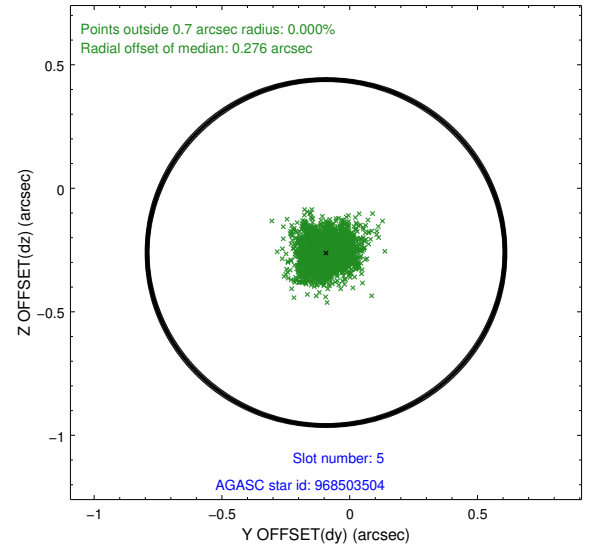
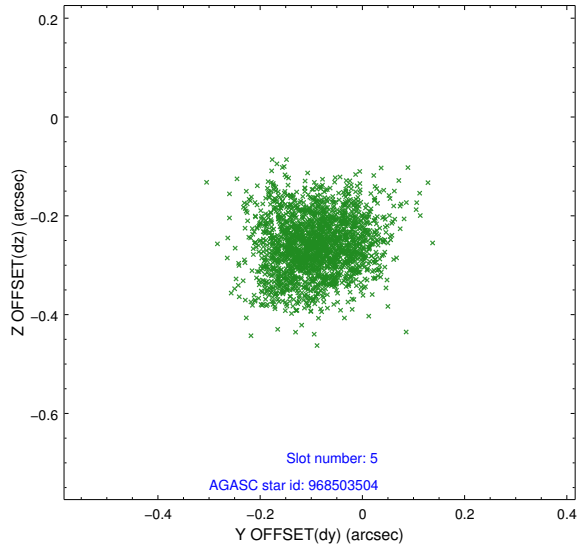
### 2.4.1 Slot 3



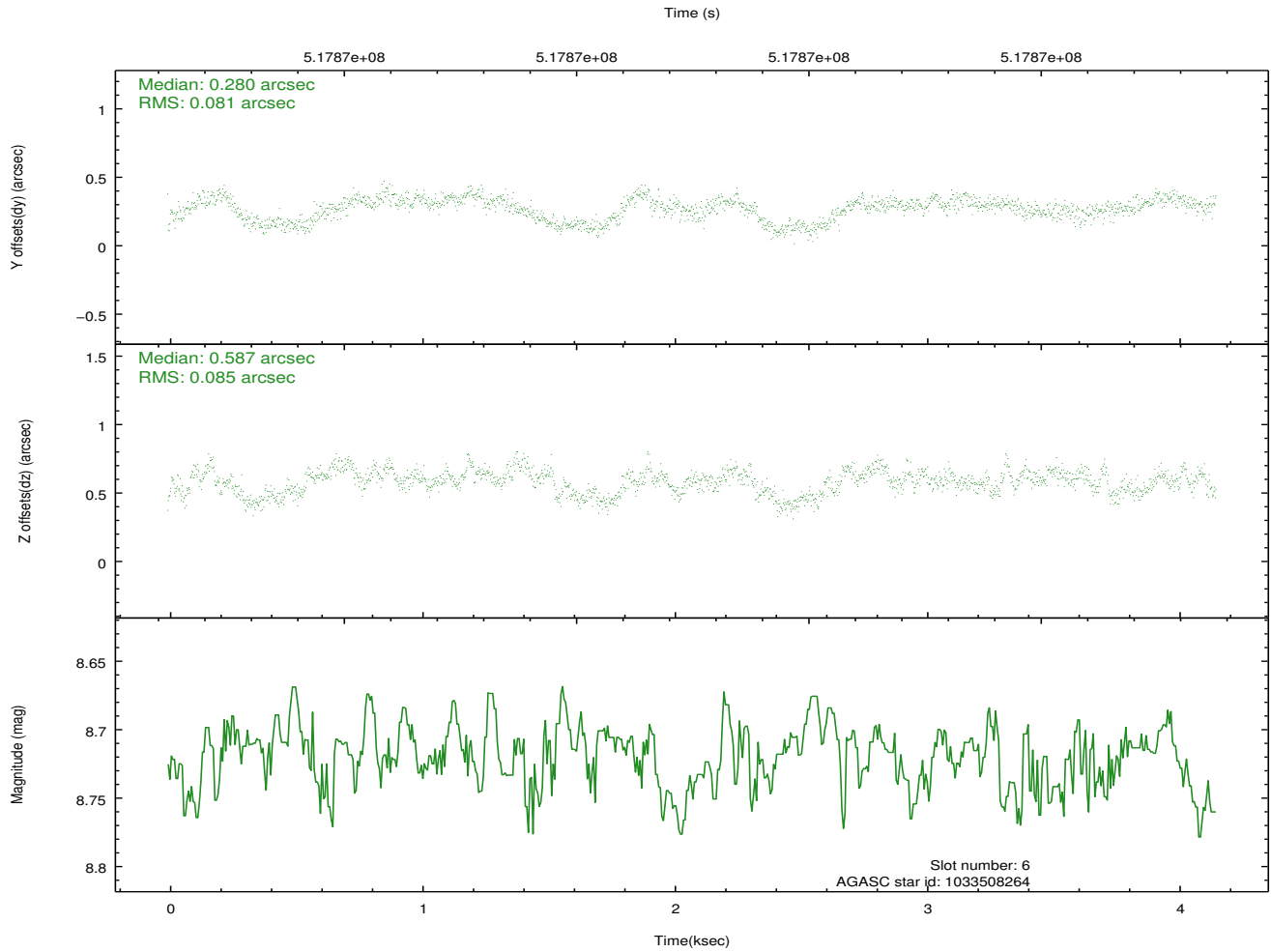
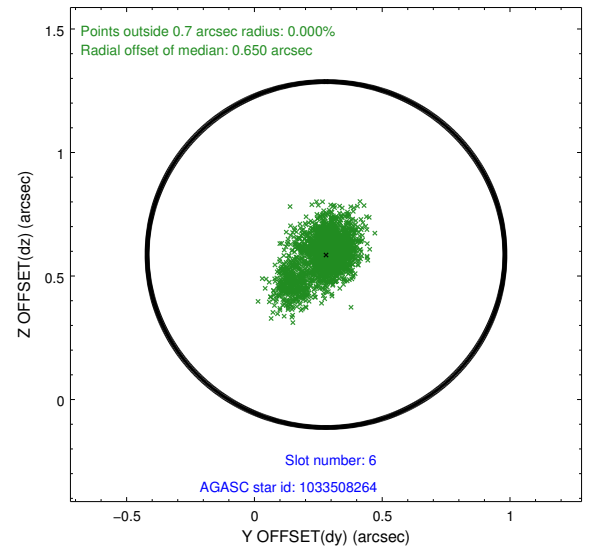
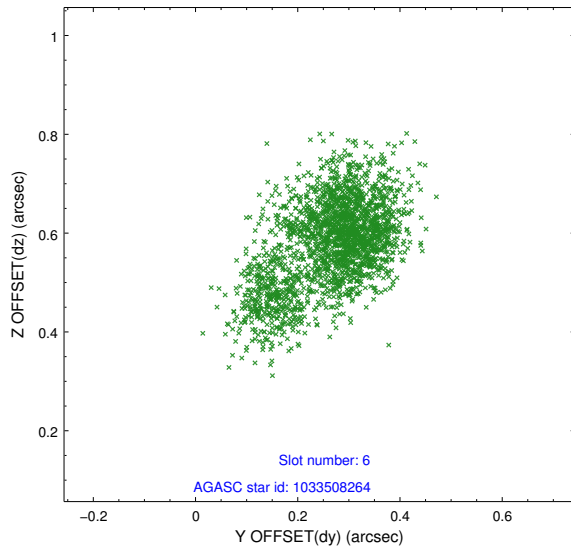
## 2.4.2 Slot 4



### 2.4.3 Slot 5

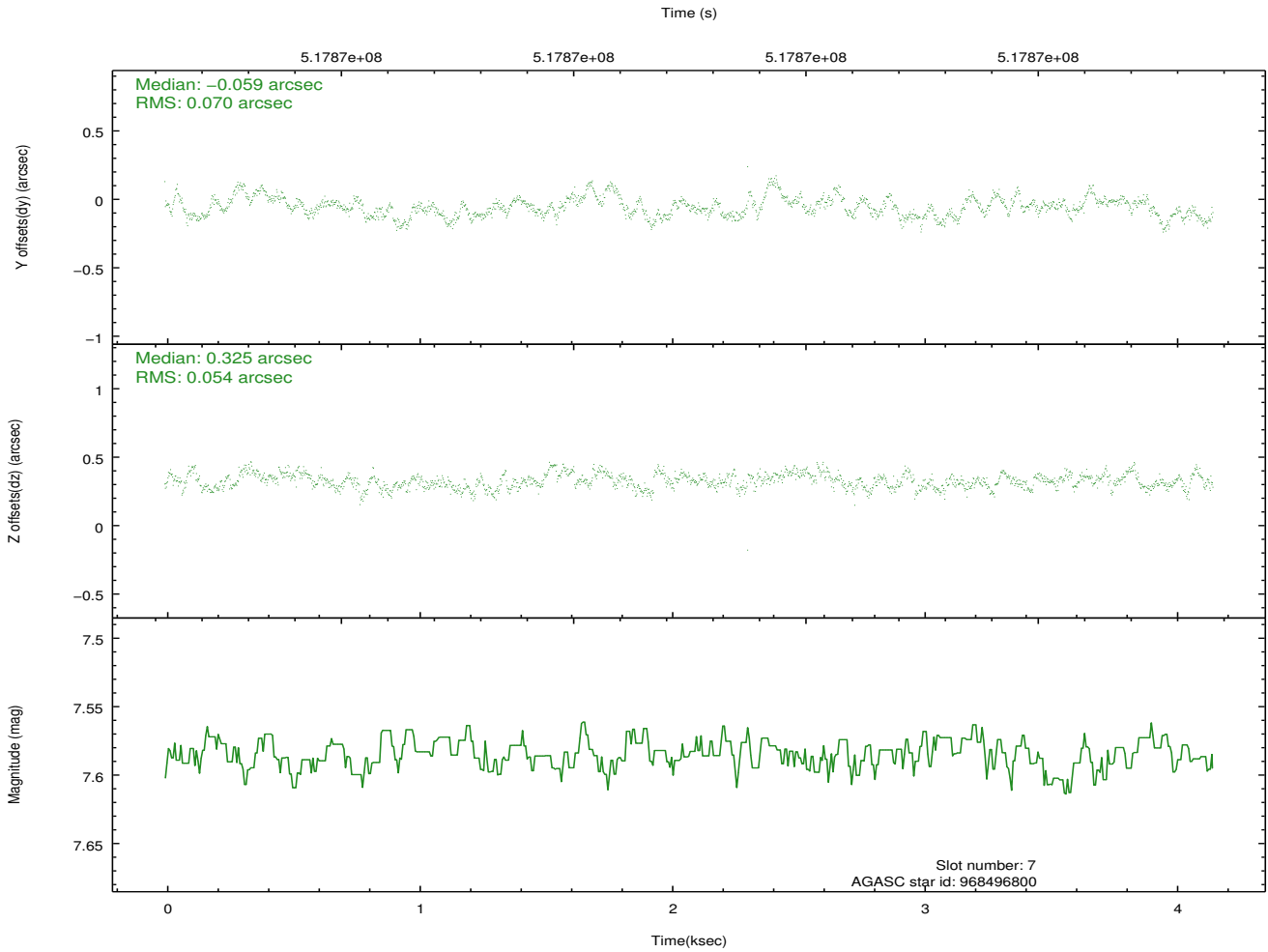
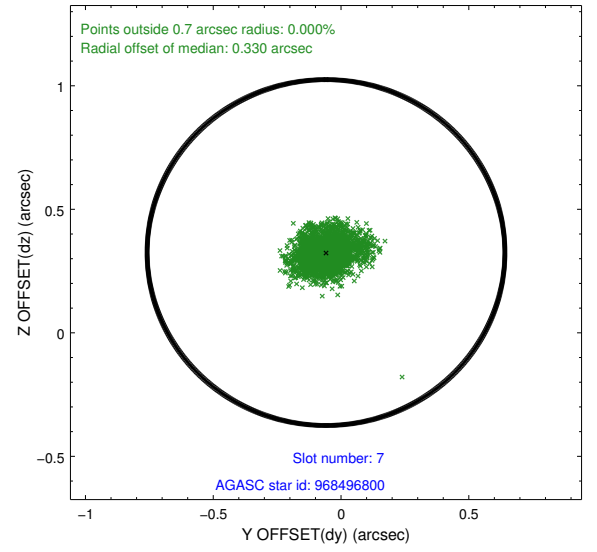
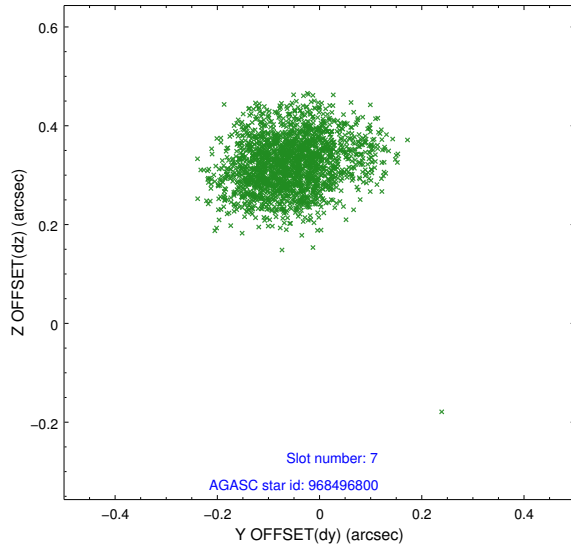


## 2.4.4 Slot 6



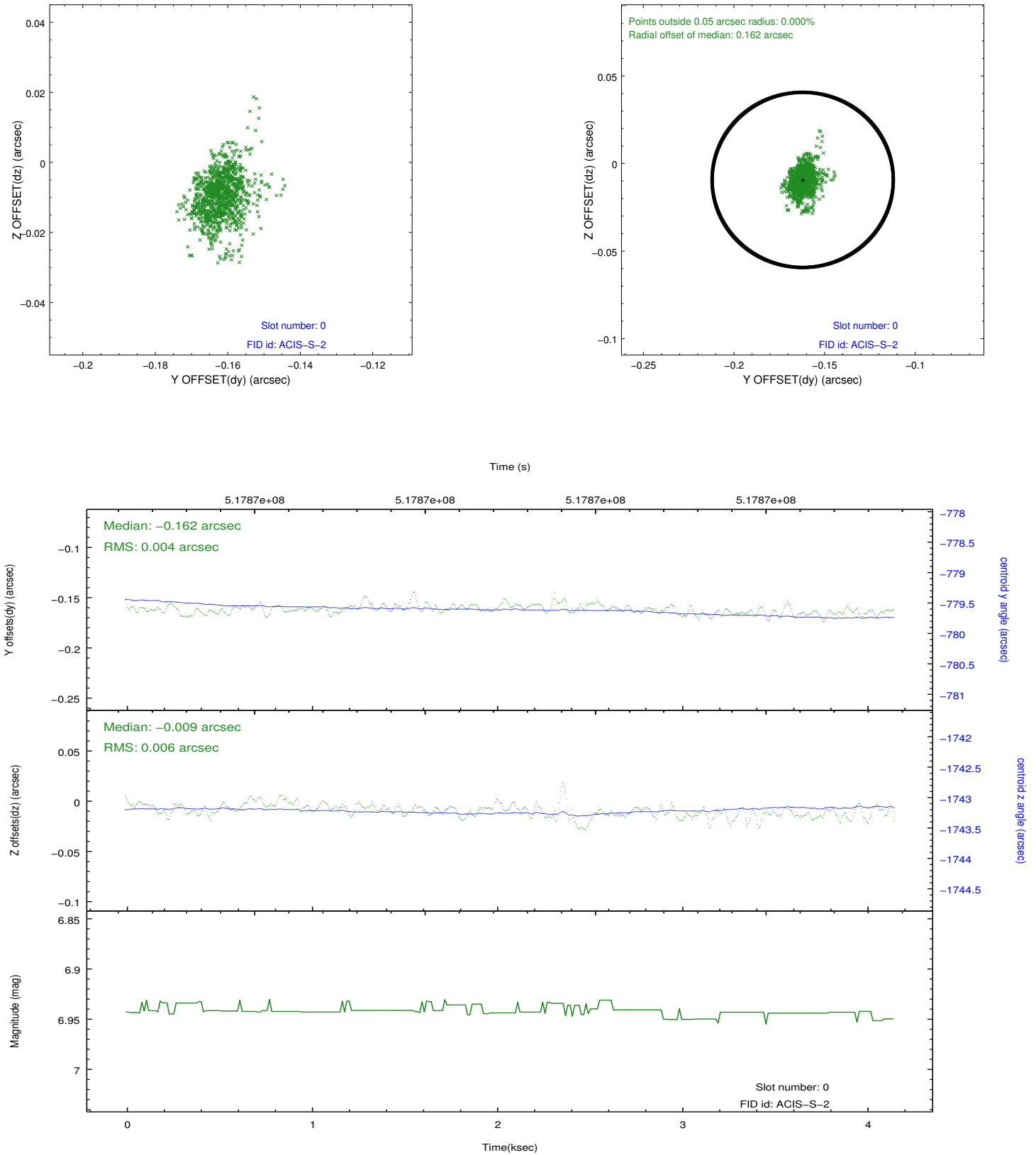


## 2.4.5 Slot 7

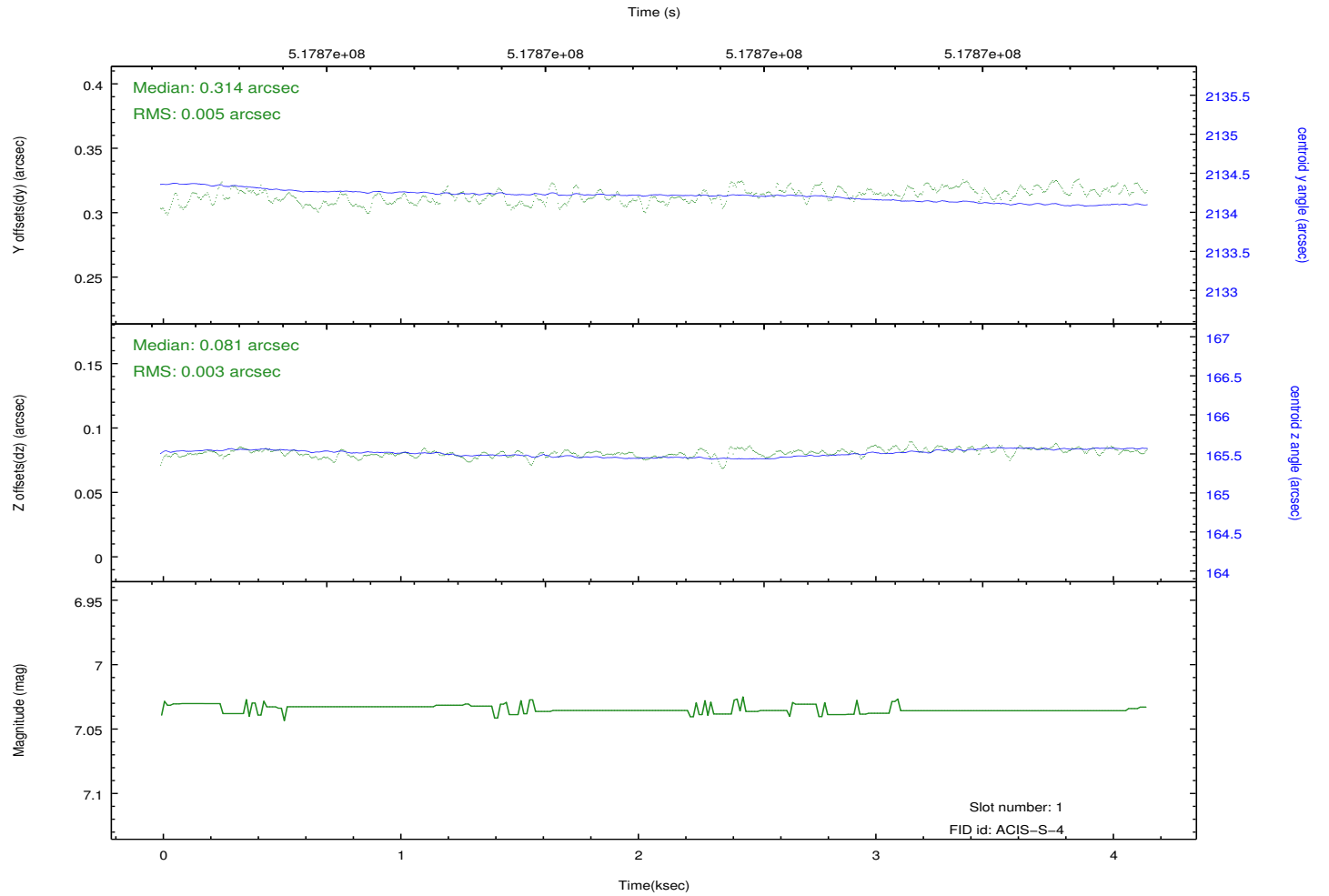
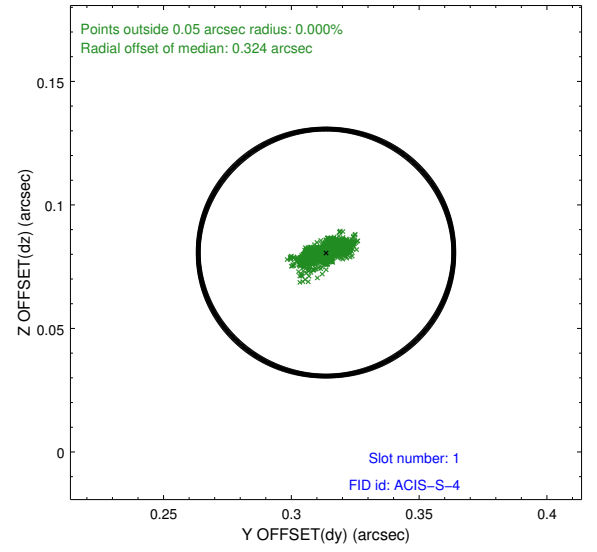
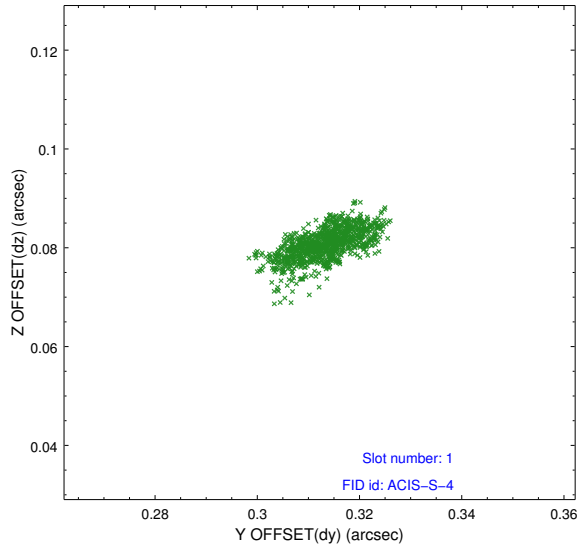


## 2.5 FID Slots

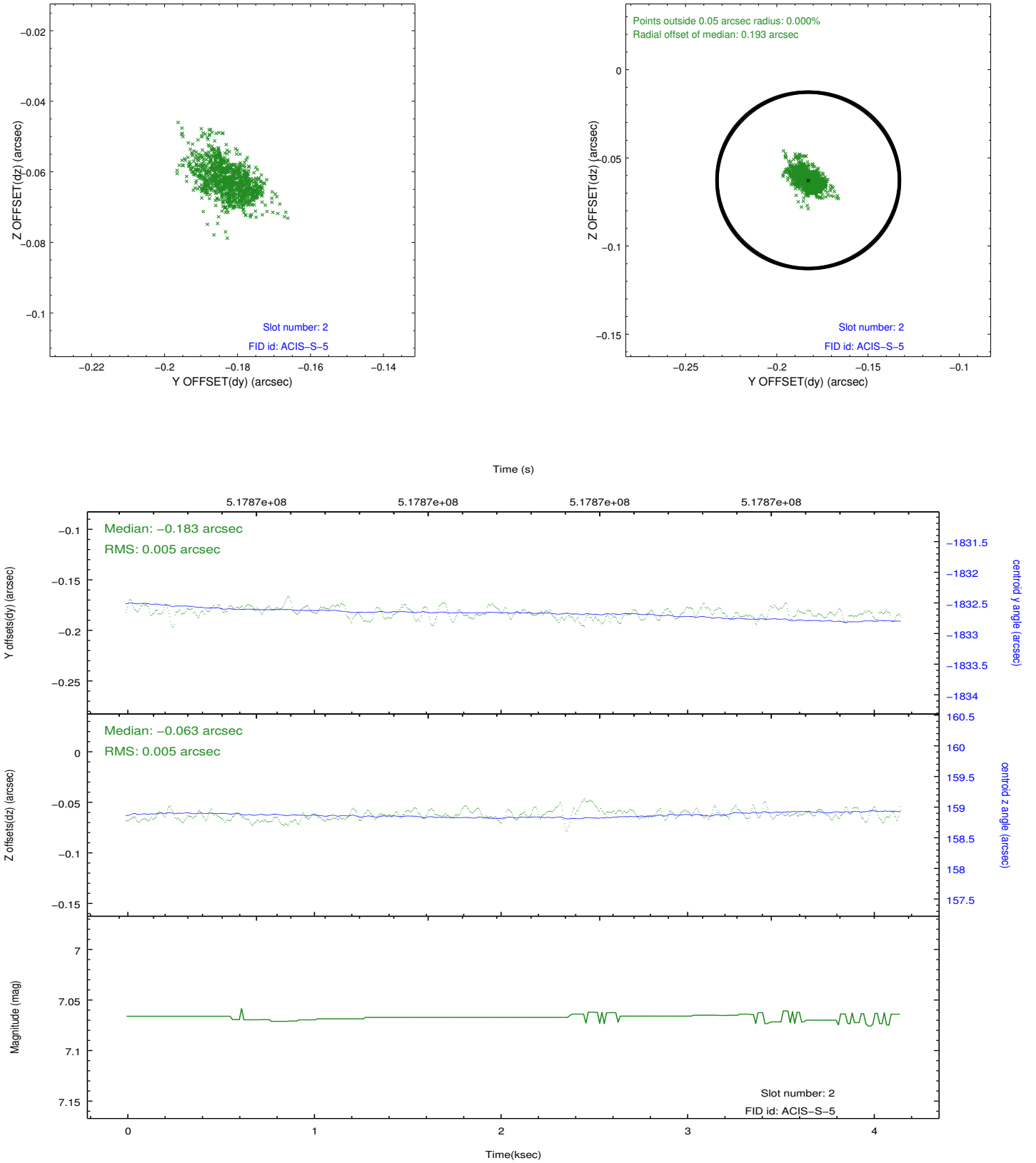
### 2.5.1 Slot 0



## 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)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0608000605702

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.