

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7697 - L2 Version 3  
Chandra X-Ray Center

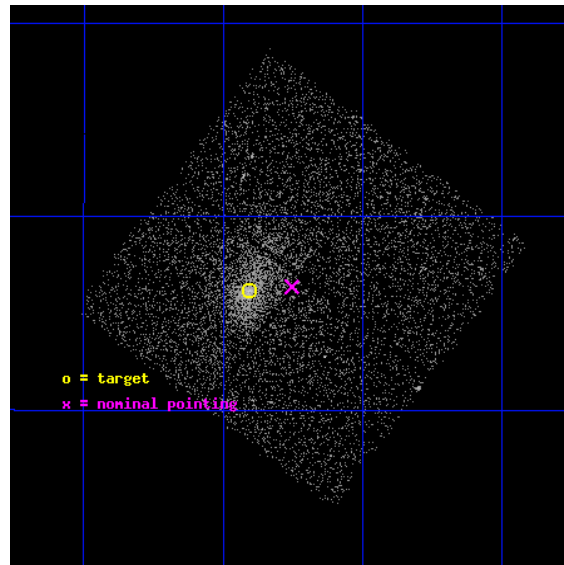
L2 Processing Date : Apr 21 2012

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# 1 Front

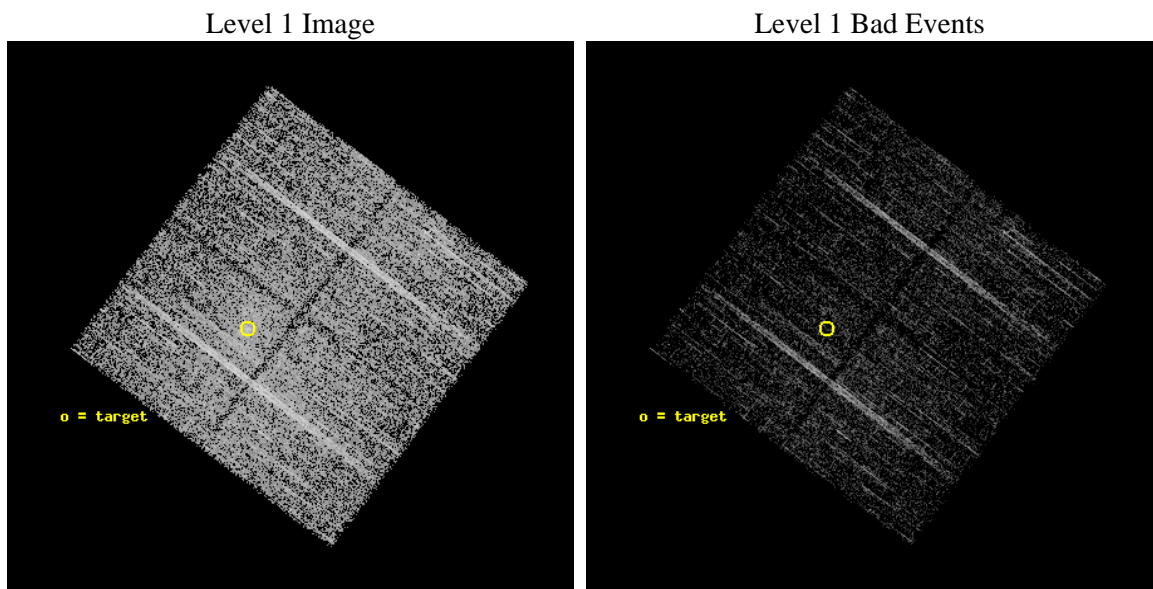
seq_num	701365	Sequence number
obs_id	7697	Observation id
title	Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies	P
observer	Professor Gordon Garmire	Principal investigator
object	ABELL1201	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.226667	Observer's specified target RA [deg]
dec_targ	13.436111	Observer's specified target Dec [deg]
ra_nom	168.18843242741	Nominal RA [deg]
dec_nom	13.439477695307	Nominal Dec [deg]
roll_nom	217.12664405742	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4978.60003829	Sum of GTIs [s]
livetime	4913.5509635977	Livetime [s]
ontime0	4972.3180379272	Sum of GTIs [s]
ontime1	4978.60003829	Sum of GTIs [s]
ontime2	4978.60003829	Sum of GTIs [s]
ontime3	4978.60003829	Sum of GTIs [s]
l2events	11690	Number of level 2 events



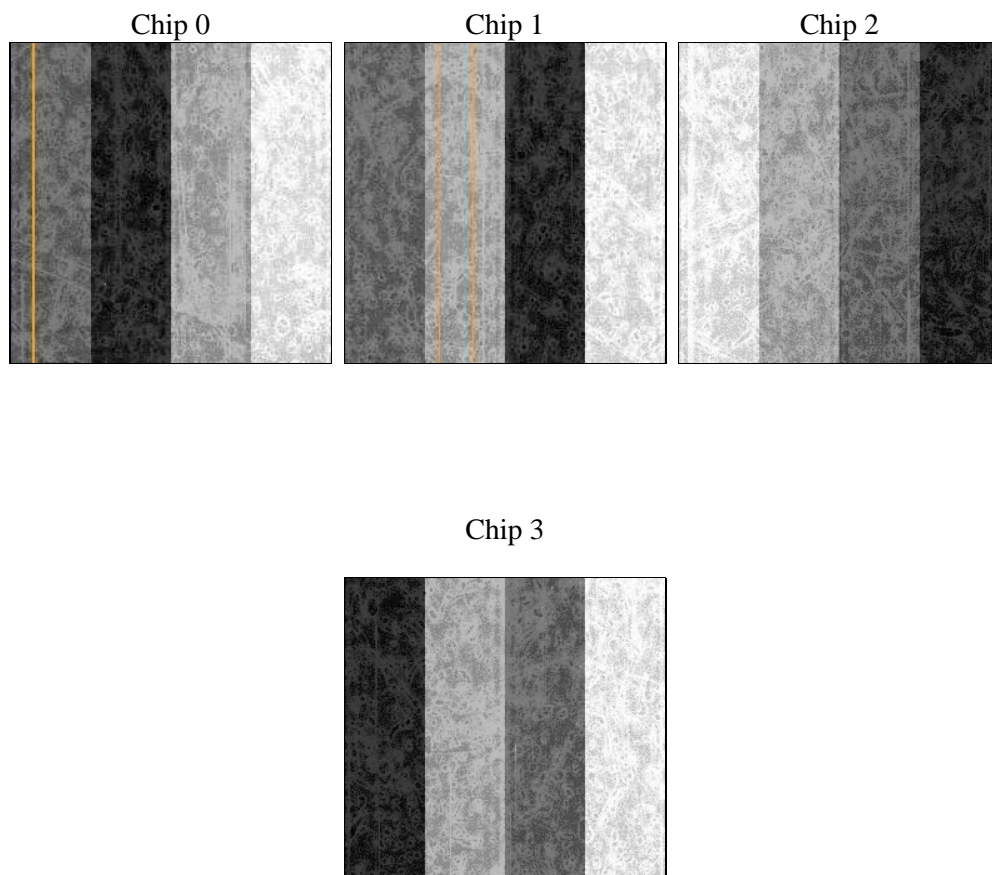
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4978.60003829	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4972.3180379272	Sum of GTIs [s]
date	2012-04-21T14:03:45	Date and time of file creation	ontime1	4978.60003829	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4978.60003829	Sum of GTIs [s]
			ontime3	4978.60003829	Sum of GTIs [s]
			l1events	137291	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	34083	31332	37134	34742
rejected events	31108	27928	34041	29881
rejected %	91%	89%	91%	86%

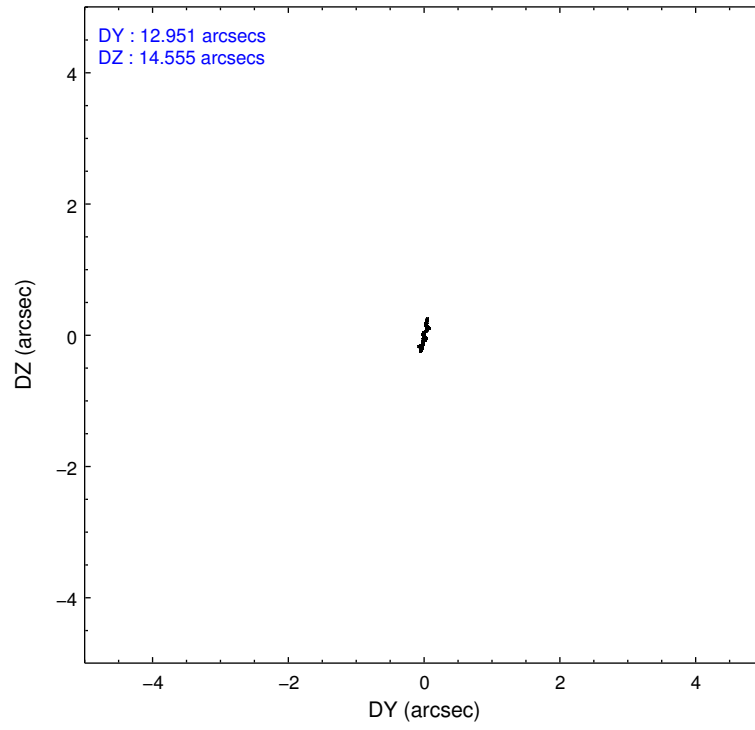
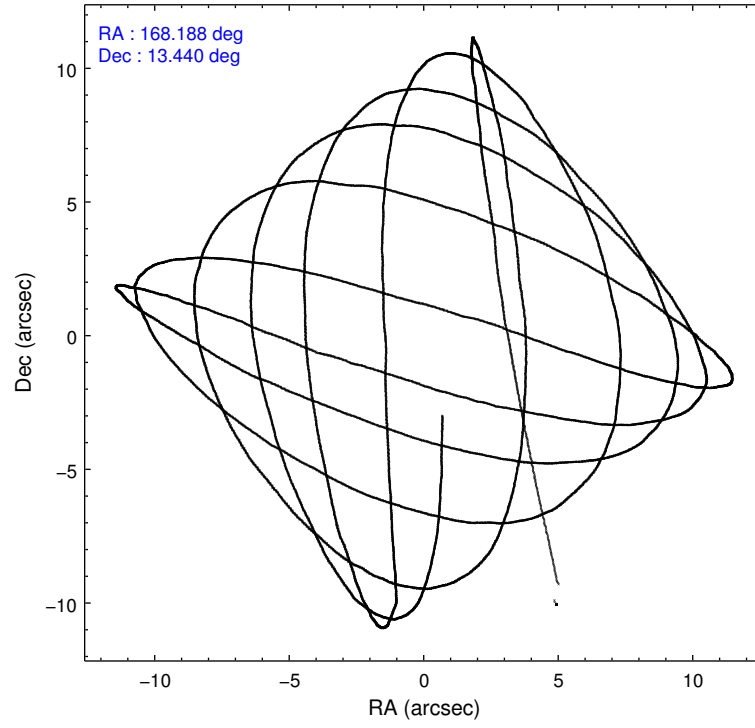
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1337	1510	1548	3055
	3%	4%	4%	8%
grade 1 events	15	25	24	24
	0%	0%	0%	0%
grade 2 events	721	780	735	757
	2%	2%	1%	2%
grade 3 events	352	370	322	387
	1%	1%	0%	1%
grade 4 events	320	387	321	404
	0%	1%	0%	1%
grade 5 events	582	624	505	707
	1%	1%	1%	2%
grade 6 events	437	552	408	508
	1%	1%	1%	1%
grade 7 events	30319	27084	33271	28900
	88%	86%	89%	83%

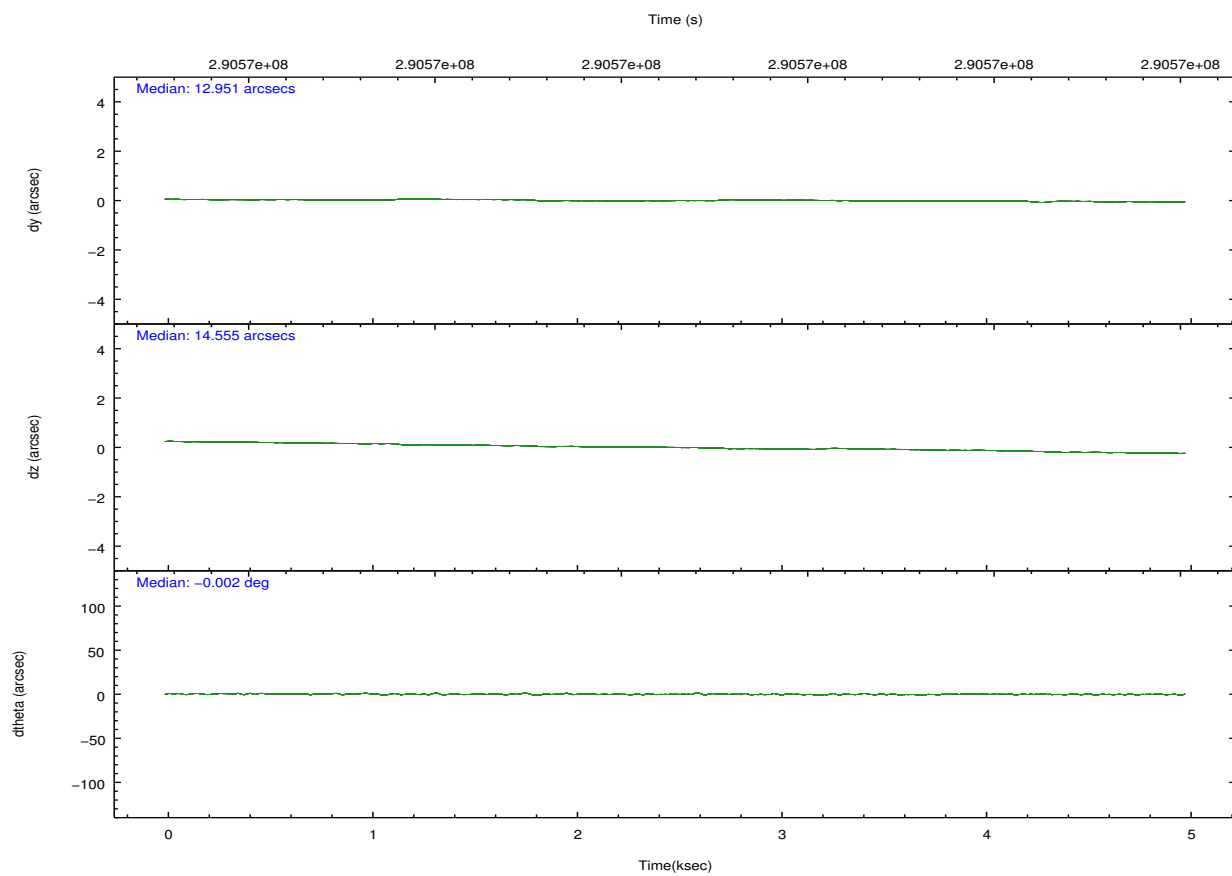
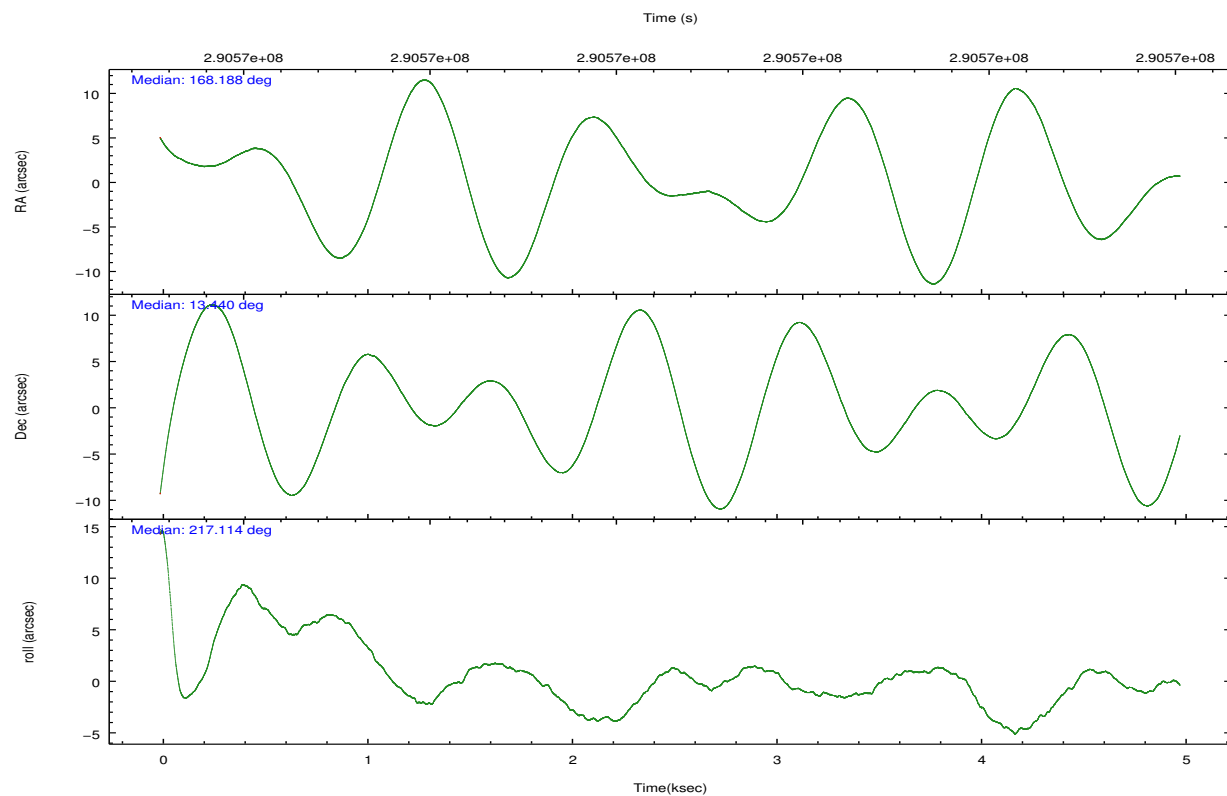


## 2.2 Compared Parameters

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	168.199295	168.1884324274079	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.464887	13.43947769530735	Alternating exposures requested	N	N
[deg] Pointing Roll	216.915380	217.1266440574194	[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)	290567977.184000	290566883.14197			
Observation start date	2007-03-18T01:18:32	2007-03-18T01:01:23			
[s] Observation end time (MET)	290572777.184000	290573871.59231			
Observation end date	2007-03-18T02:38:32	2007-03-18T02:57:51			
Read mode	TIMED	TIMED			

## 2.3 Aspect



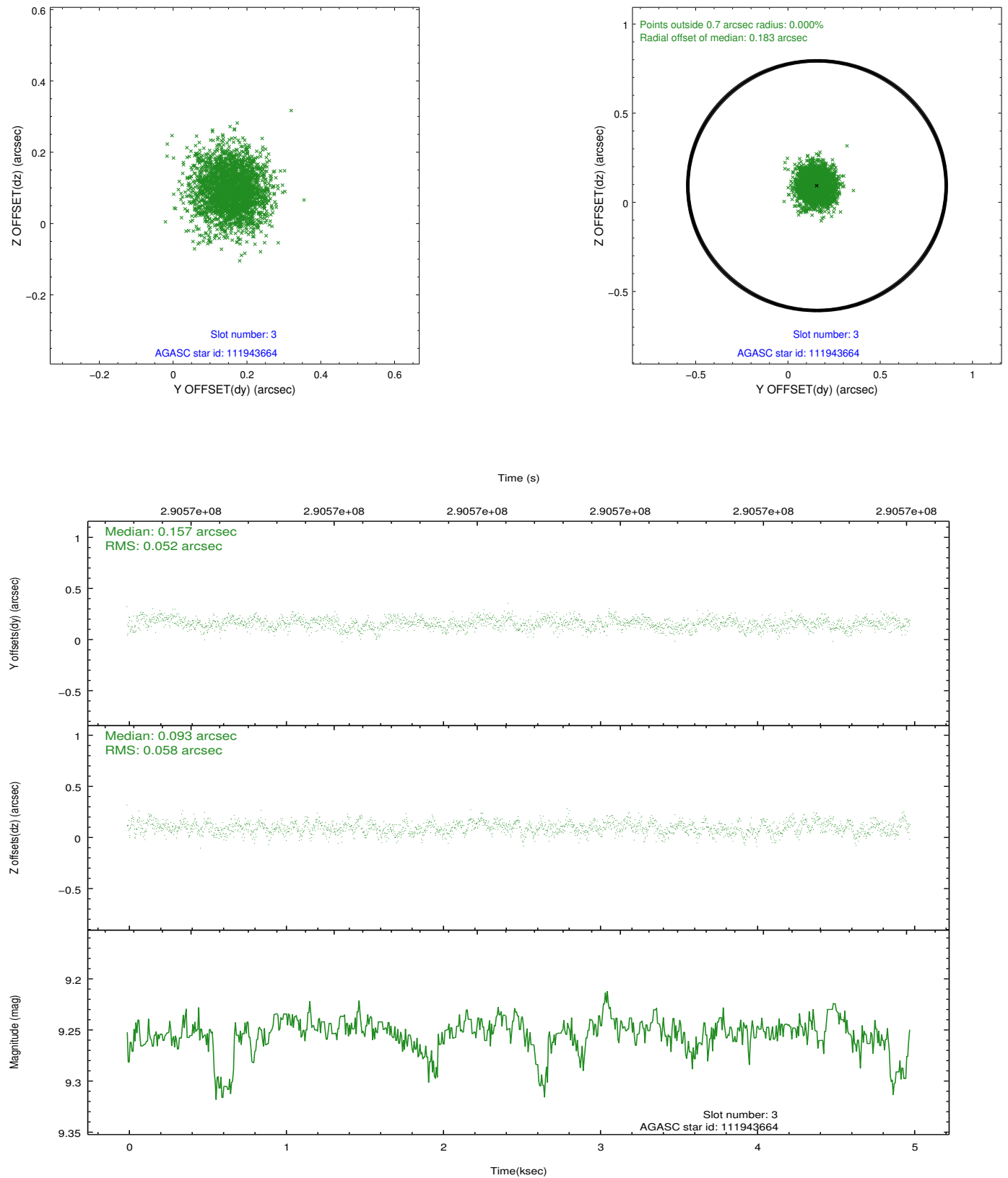


### Slot Statistics

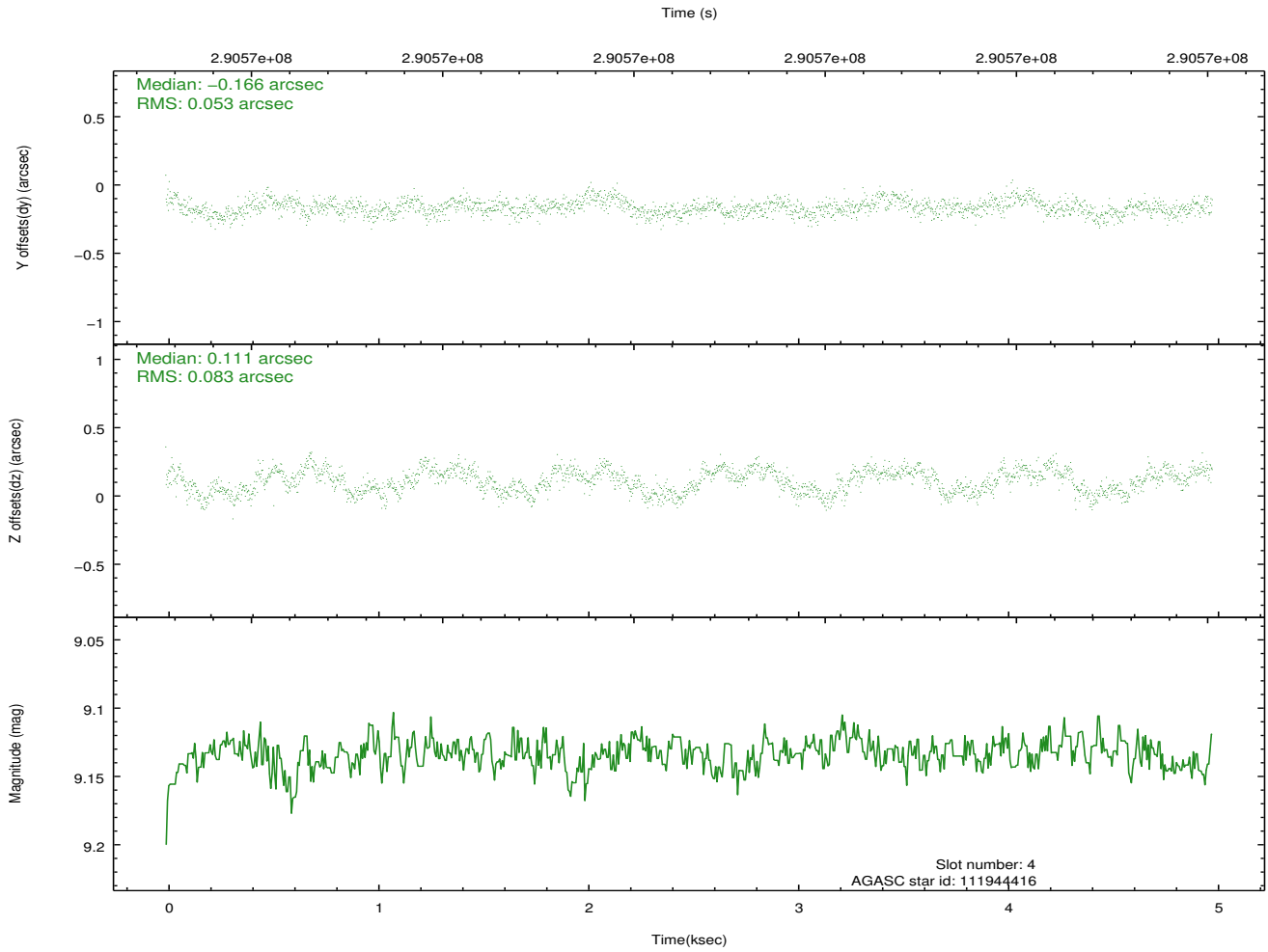
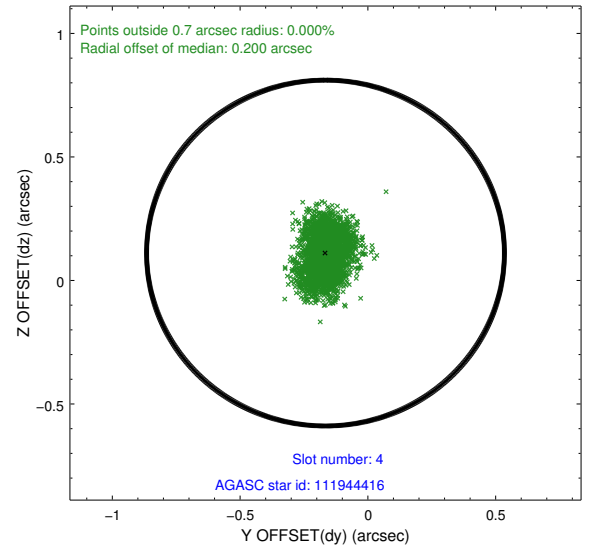
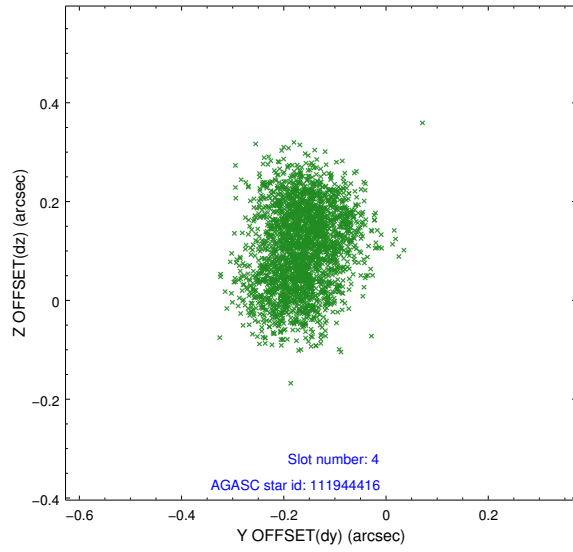
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1217	0.030	-0.003	0.009	0.016	0.000000	0.000000	926.59	-838.14
1	FID	ACIS-I-5	7.22	1217	-0.209	0.035	0.007	0.011	0.000000	0.000000	-1821.09	1058.76
2	FID	ACIS-I-6	7.24	1217	0.088	0.039	0.009	0.015	0.000000	0.000000	390.85	1704.66
3	GUIDE	111943664	9.25	2430	0.157	0.093	0.082	0.134	168.455104	13.231647	-212.37	1209.25
4	GUIDE	111944416	9.13	2431	-0.166	0.111	0.108	0.165	168.281221	13.248301	238.65	796.26
5	GUIDE	111944480	8.64	2433	-0.038	0.074	0.070	0.112	167.667829	13.119228	2236.77	-125.71
6	GUIDE	111944848	7.84	2431	-0.049	-0.171	0.069	0.111	168.075212	13.220782	876.54	441.10
7	GUIDE	111945992	9.55	2432	0.094	-0.099	0.099	0.166	167.736914	13.600553	1000.36	-1363.37

## 2.4 Star Slots

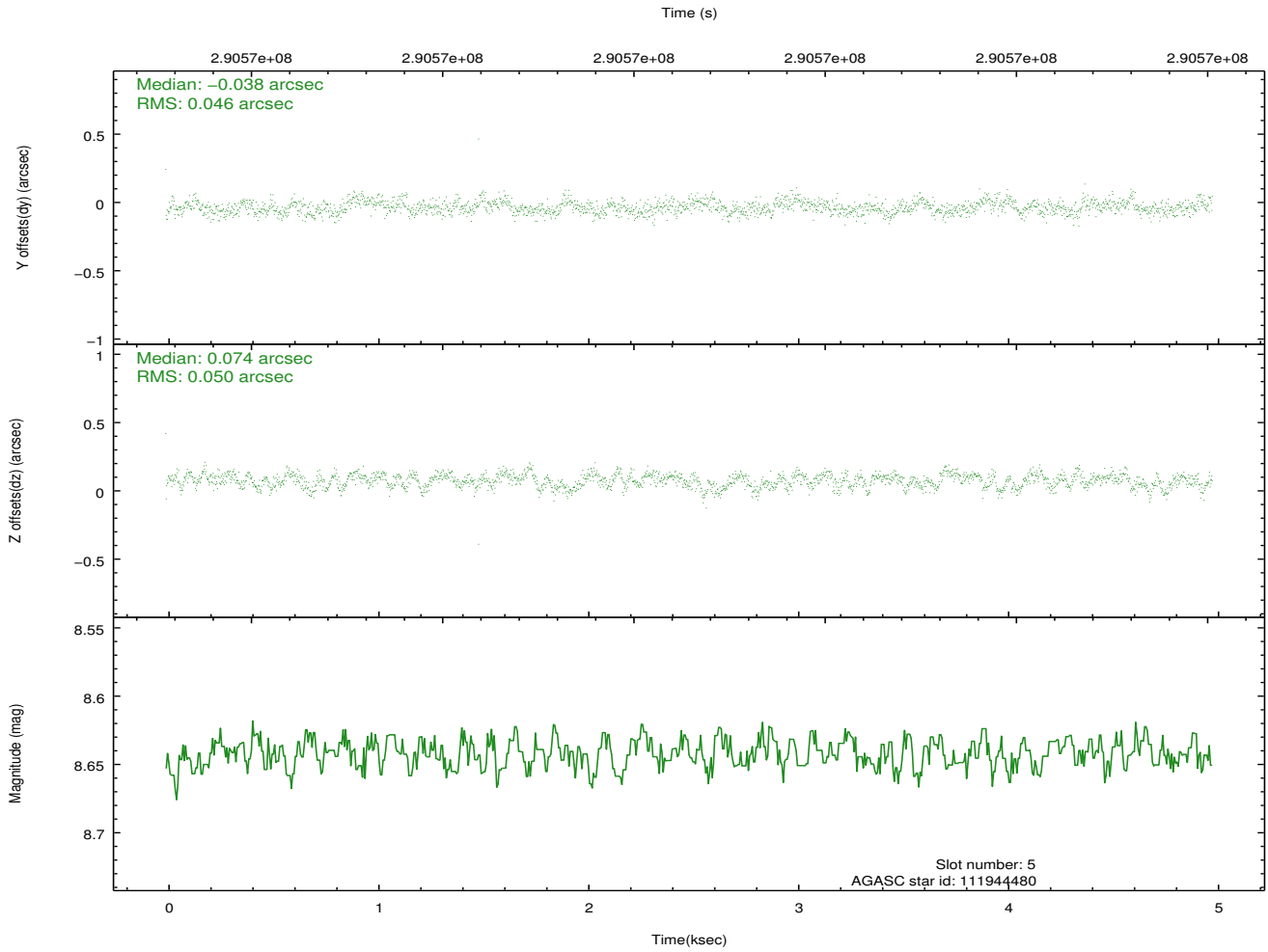
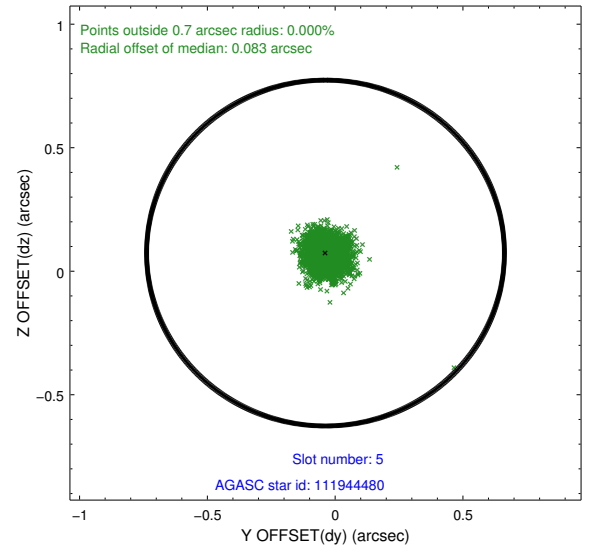
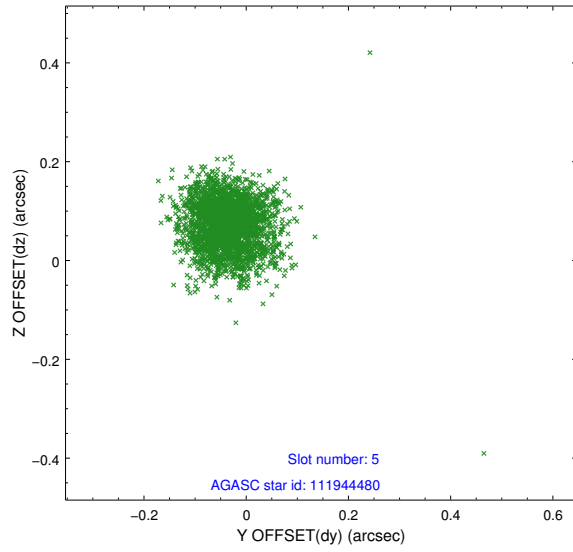
### 2.4.1 Slot 3



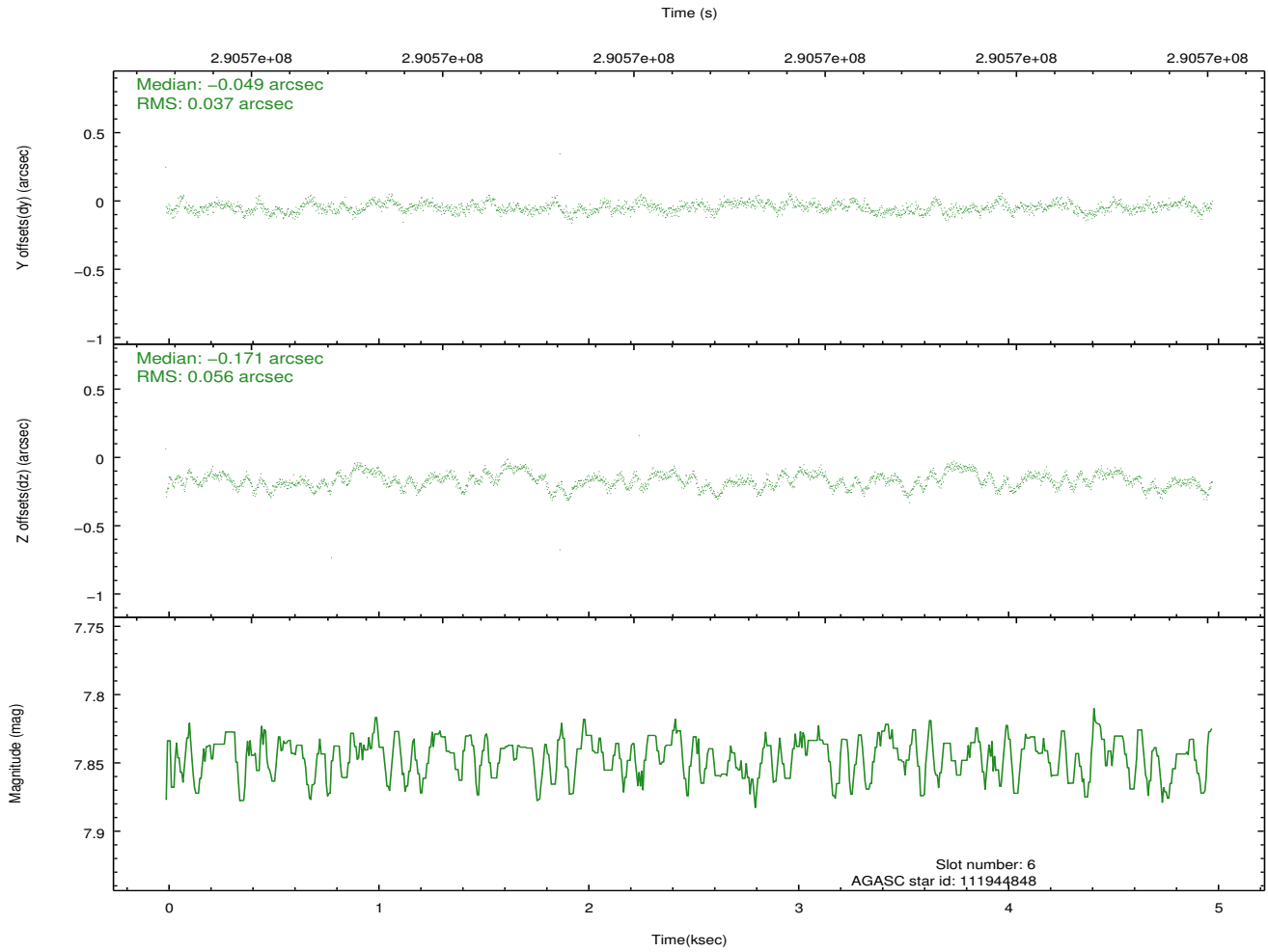
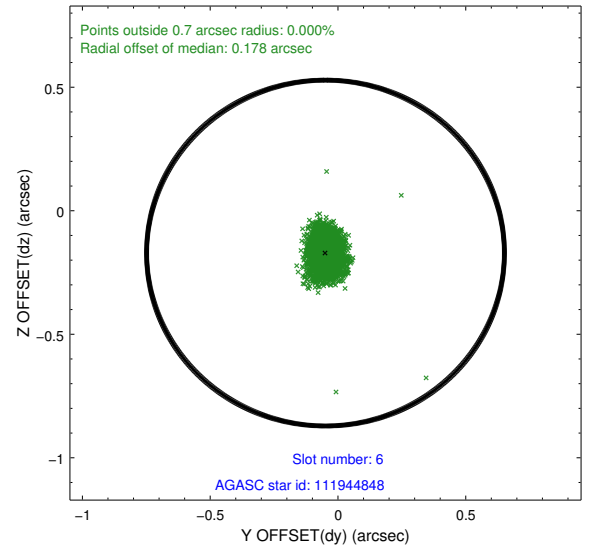
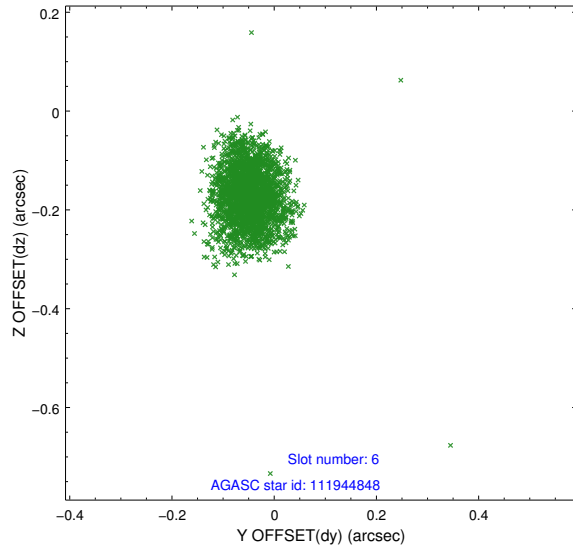
## 2.4.2 Slot 4



### 2.4.3 Slot 5

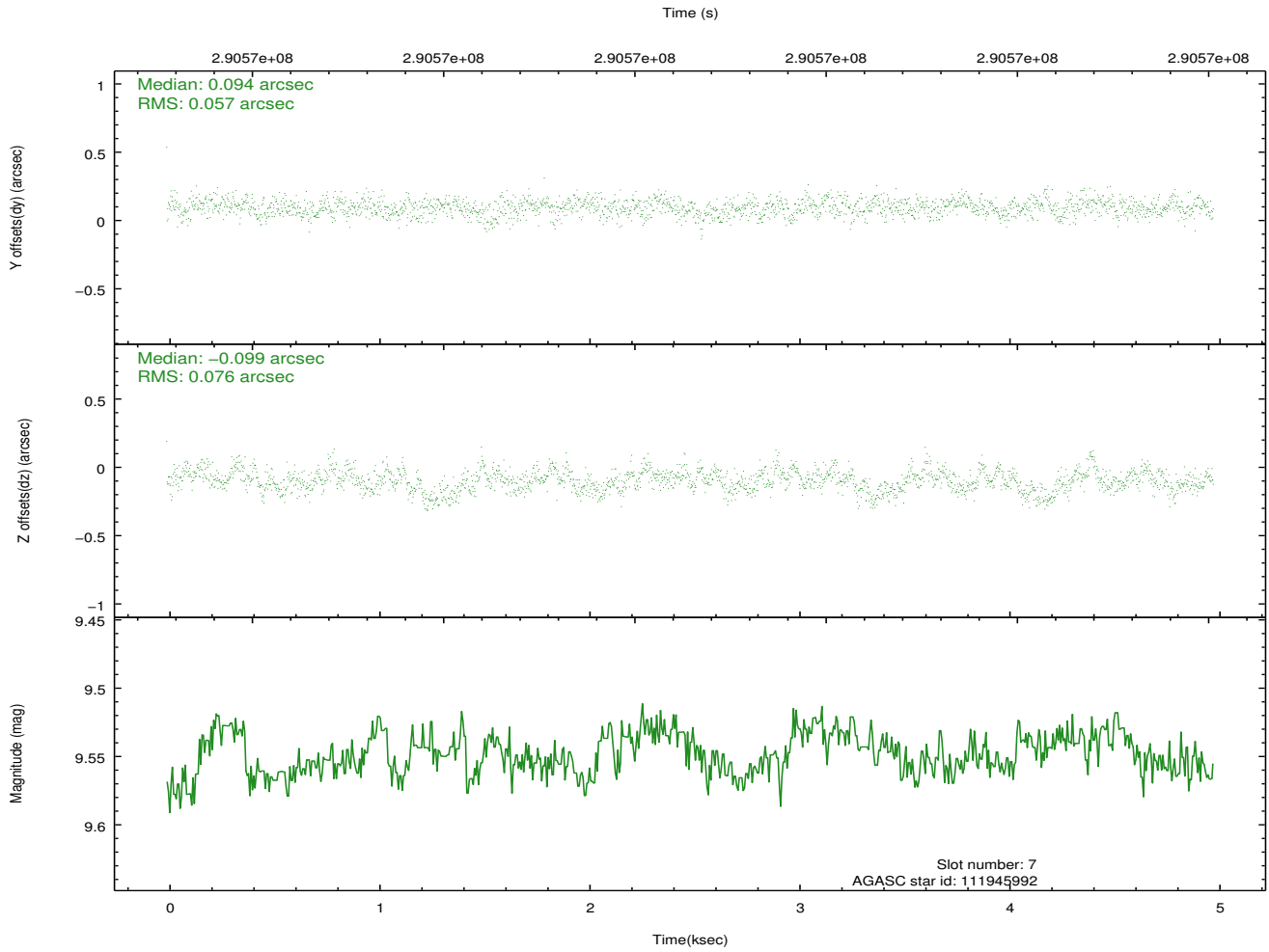
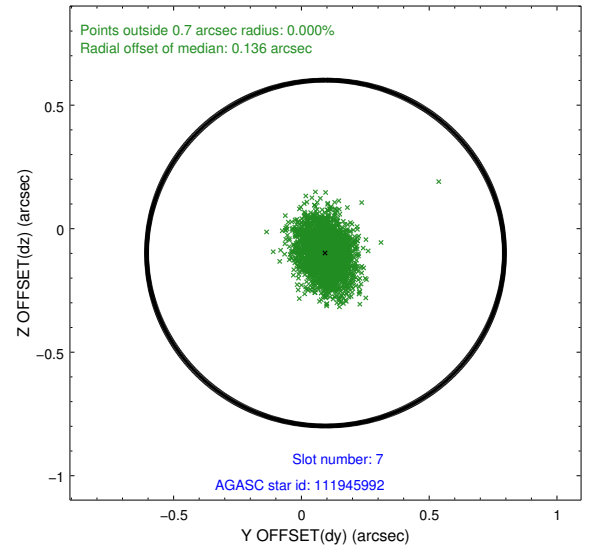
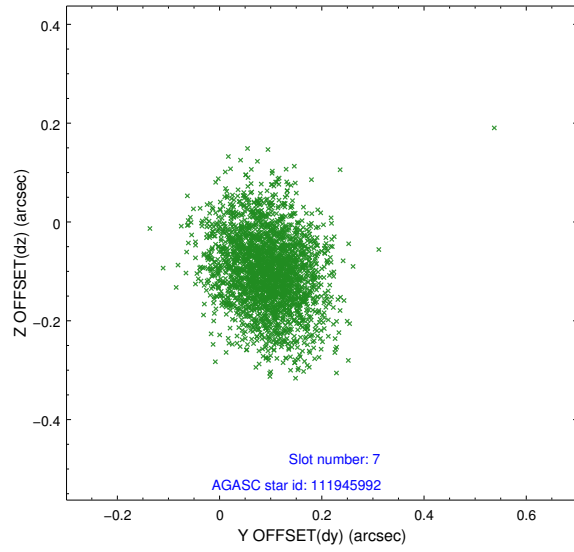


## 2.4.4 Slot 6



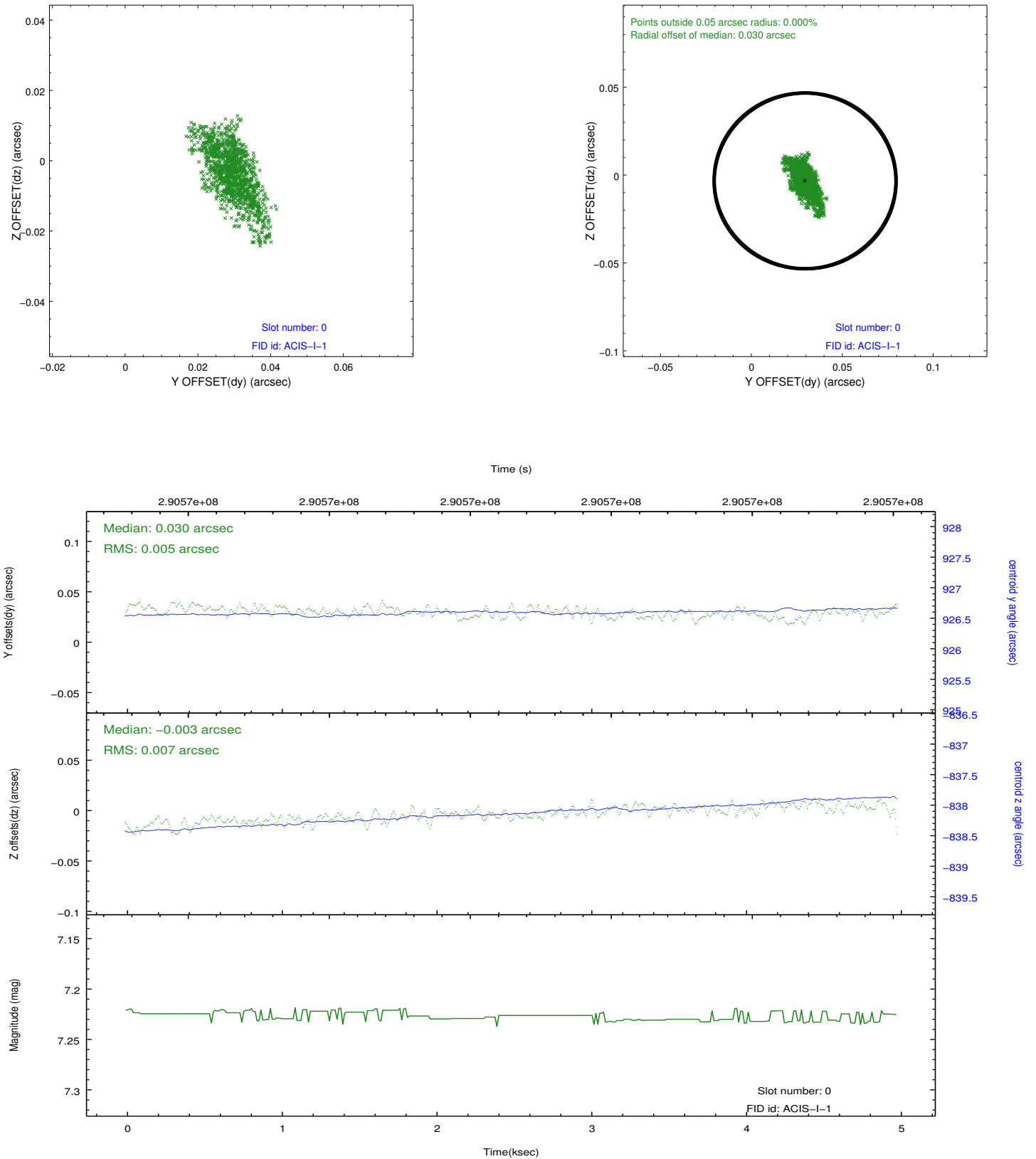


## 2.4.5 Slot 7

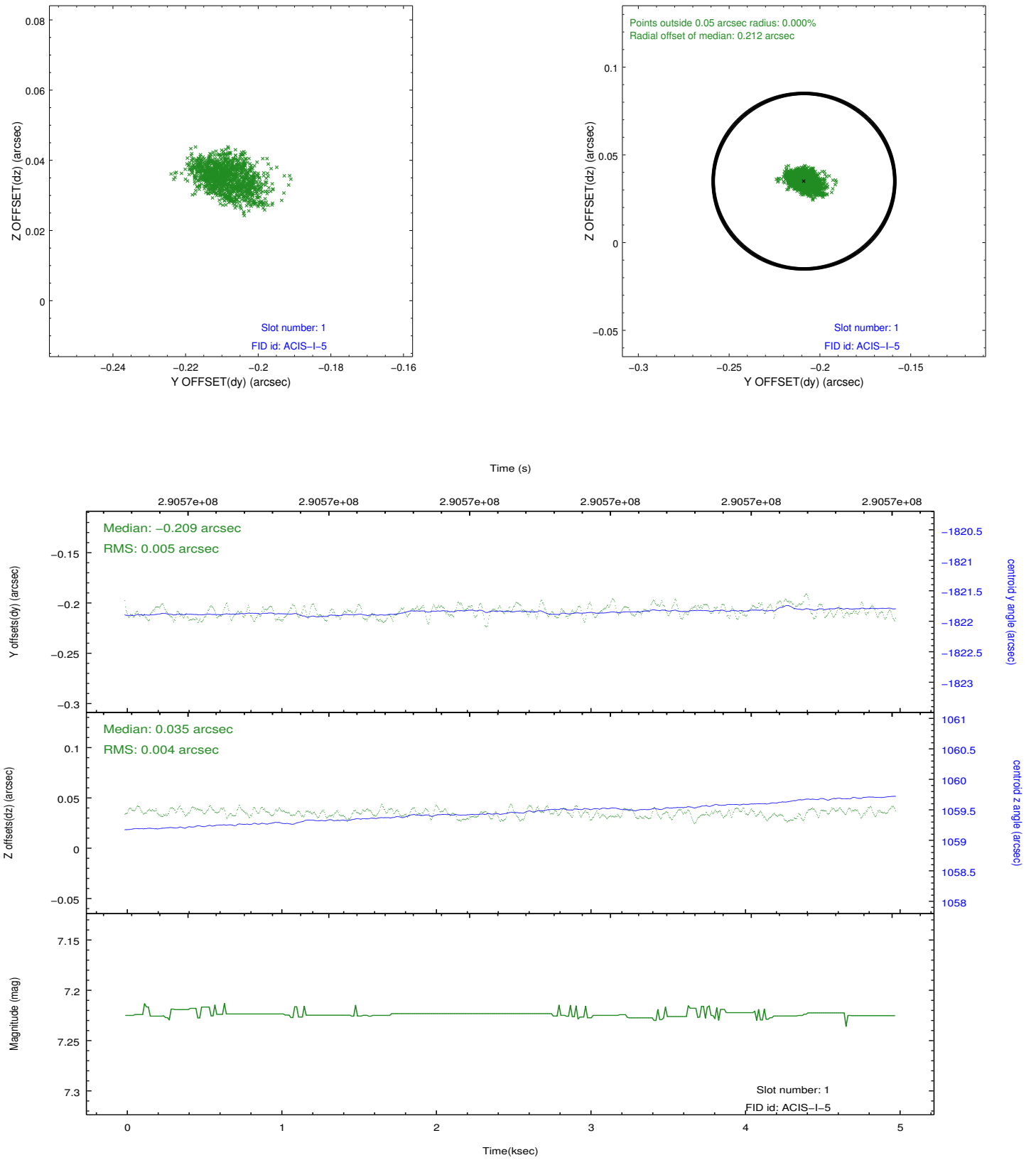


## 2.5 FID Slots

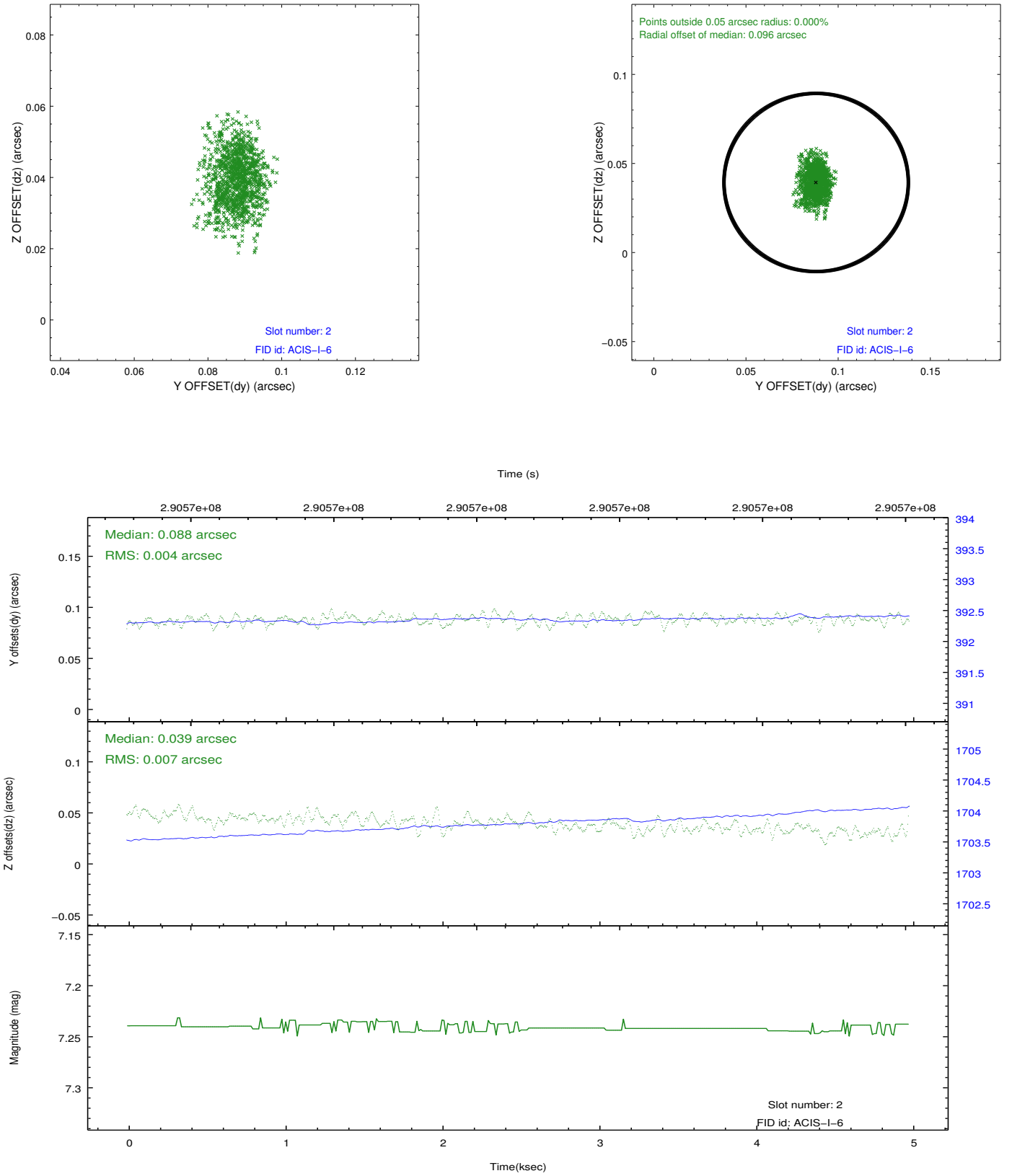
### 2.5.1 Slot 0



## 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)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.97860003

### A.2 Comments