

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7009 - L2 Version 2  
Chandra X-Ray Center

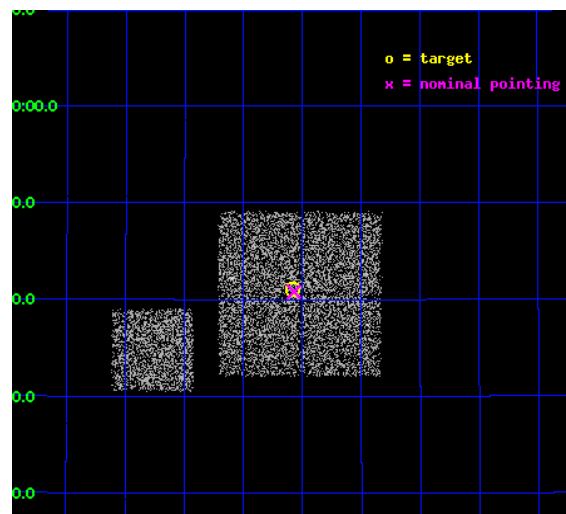
L2 Processing Date : Apr 7 2012

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# 1 Front

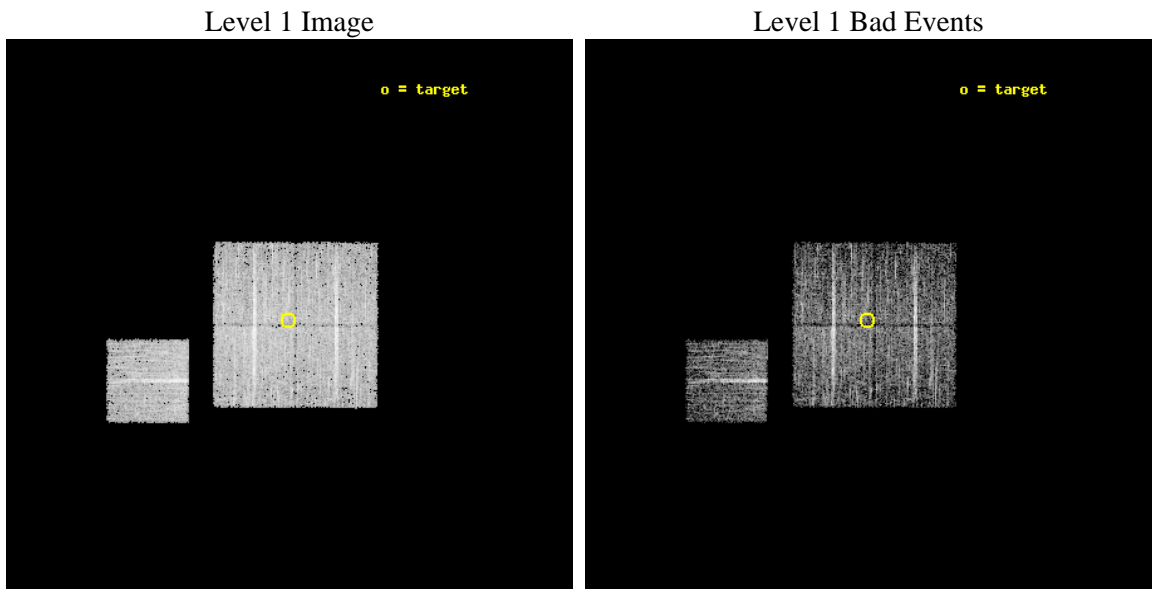
seq_num	900425	Sequence number
obs_id	7009	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr Stephen Murray	Principal investigator
object	Bootes2 31	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.52025	Observer's specified target RA [deg]
dec_targ	34.684354	Observer's specified target Dec [deg]
ra_nom	216.51815876597	Nominal RA [deg]
dec_nom	34.680114349661	Nominal Dec [deg]
roll_nom	270.20989800665	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4470.20003438	Sum of GTIs [s]
livetime	4411.7935800174	Livetime [s]
ontime0	4470.20003438	Sum of GTIs [s]
ontime1	4470.20003438	Sum of GTIs [s]
ontime2	4470.20003438	Sum of GTIs [s]
ontime3	4470.20003438	Sum of GTIs [s]
ontime6	4470.20003438	Sum of GTIs [s]
l2events	12264	Number of level 2 events



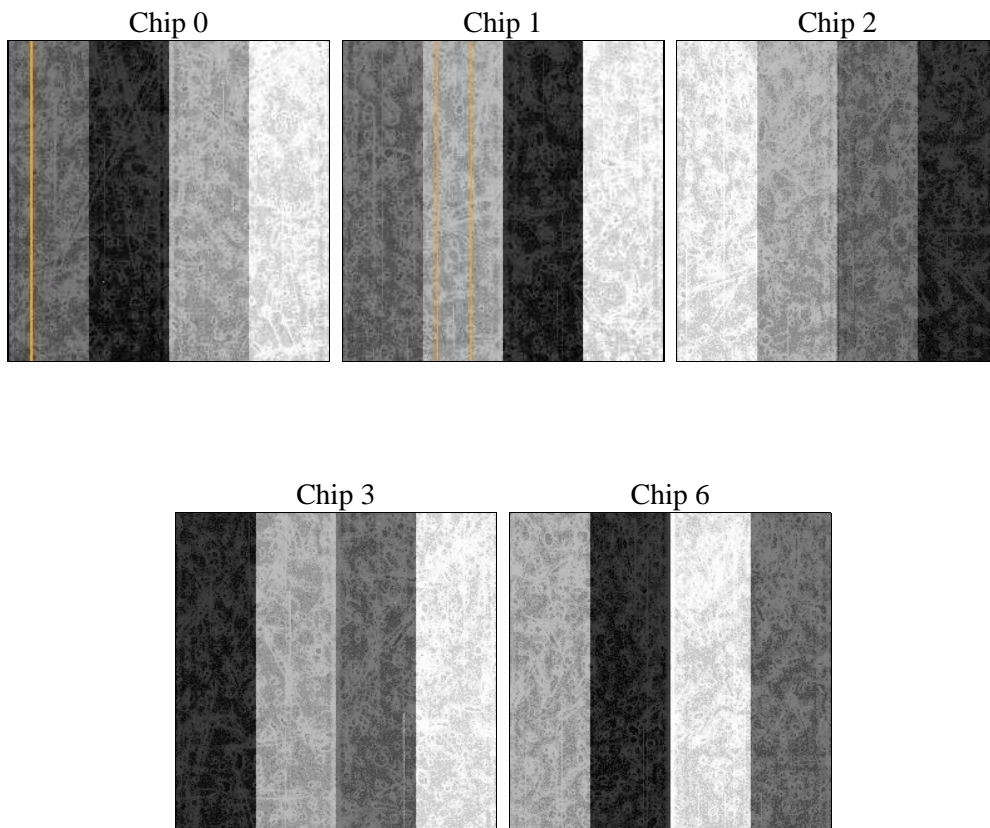
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4470.20003438	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4470.20003438	Sum of GTIs [s]
date	2012-04-07T09:29:55	Date and time of file creation	ontime1	4470.20003438	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4470.20003438	Sum of GTIs [s]
			ontime3	4470.20003438	Sum of GTIs [s]
			ontime6	4470.20003438	Sum of GTIs [s]
			l1events	157555	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	30811	28532	35360	31455	31397
rejected events	27697	25395	32309	28647	28366
rejected %	89%	89%	91%	91%	90%

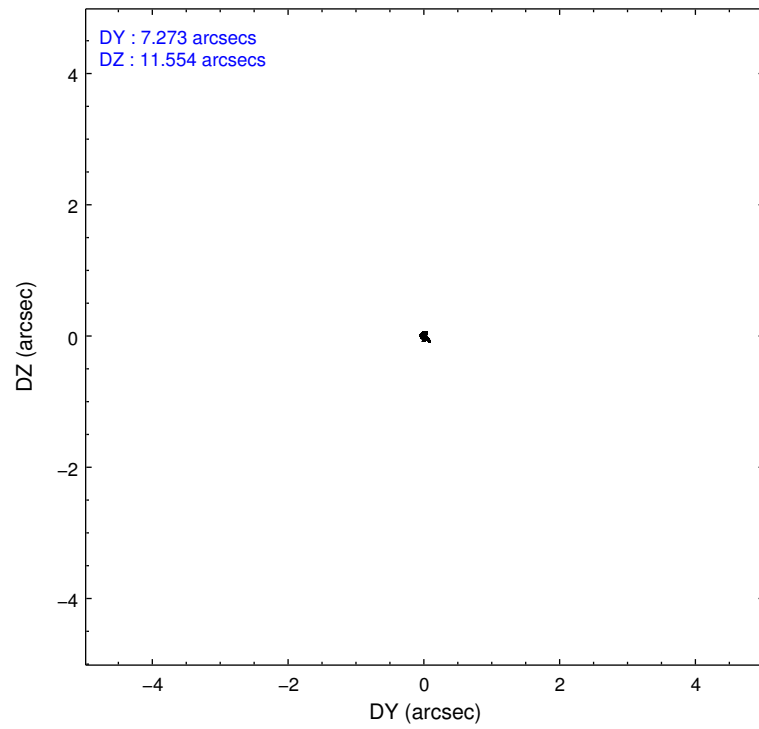
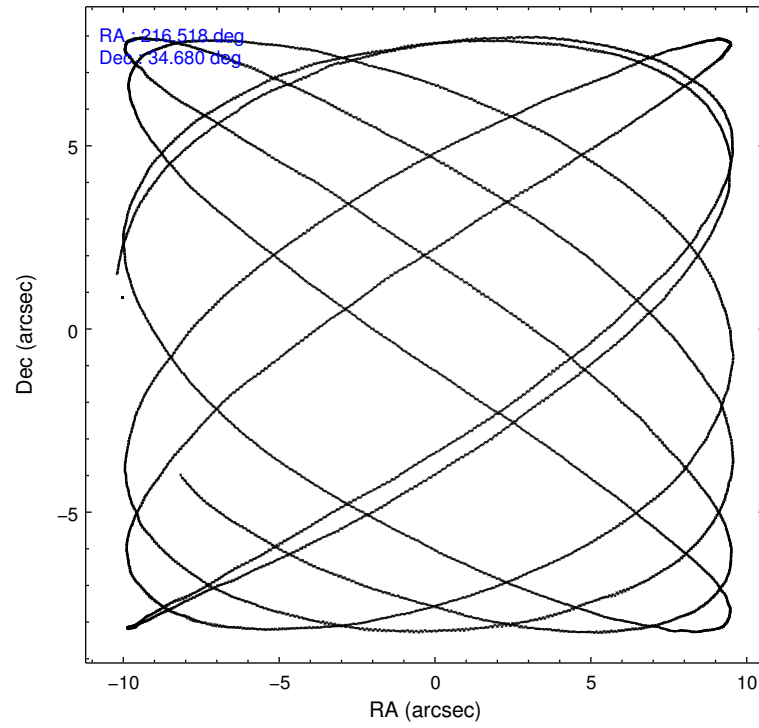
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1075	1091	1081	975	1066
	3%	3%	3%	3%	3%
grade 1 events	17	11	22	21	15
	0%	0%	0%	0%	0%
grade 2 events	757	689	745	606	634
	2%	2%	2%	1%	2%
grade 3 events	374	352	368	335	381
	1%	1%	1%	1%	1%
grade 4 events	348	361	337	333	339
	1%	1%	0%	1%	1%
grade 5 events	873	1035	825	1131	1042
	2%	3%	2%	3%	3%
grade 6 events	561	648	522	561	617
	1%	2%	1%	1%	1%
grade 7 events	26806	24345	31460	27493	27303
	87%	85%	88%	87%	86%

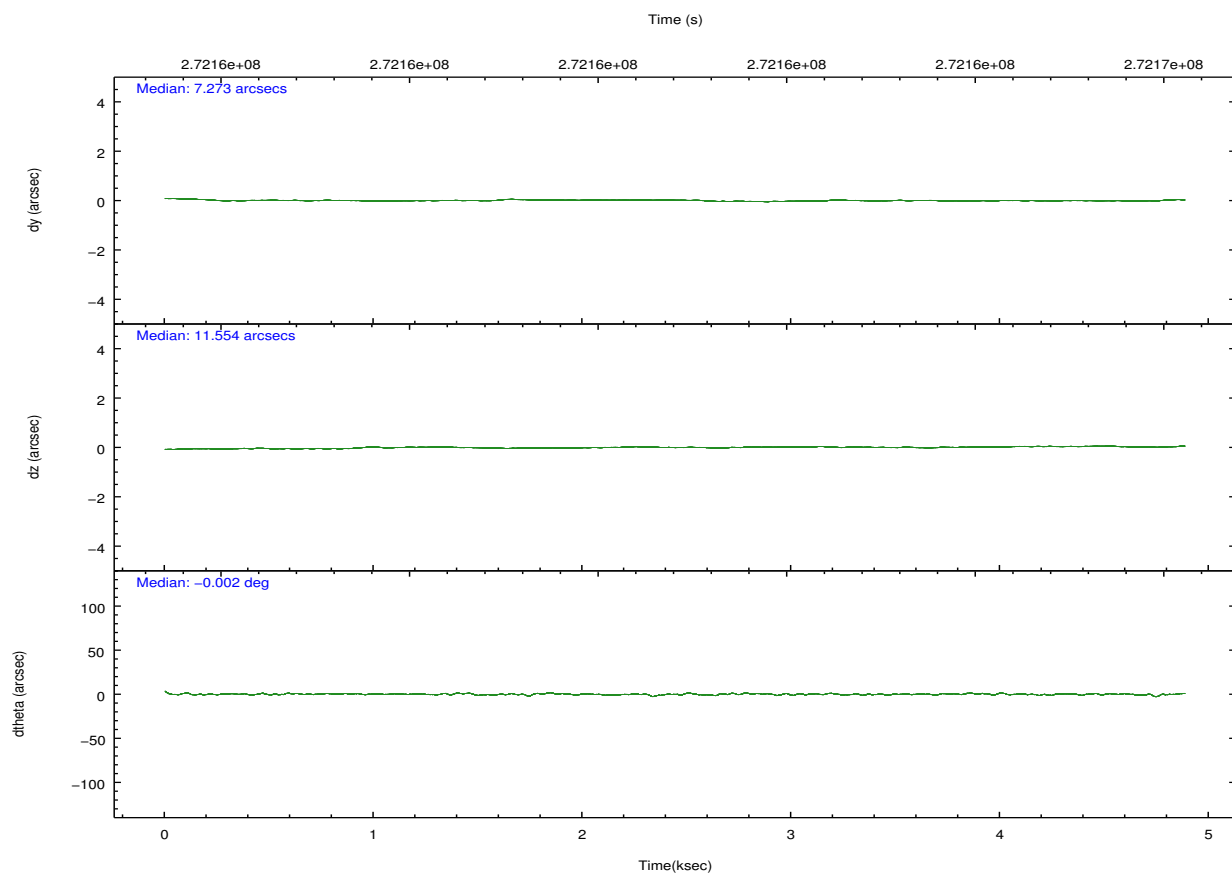
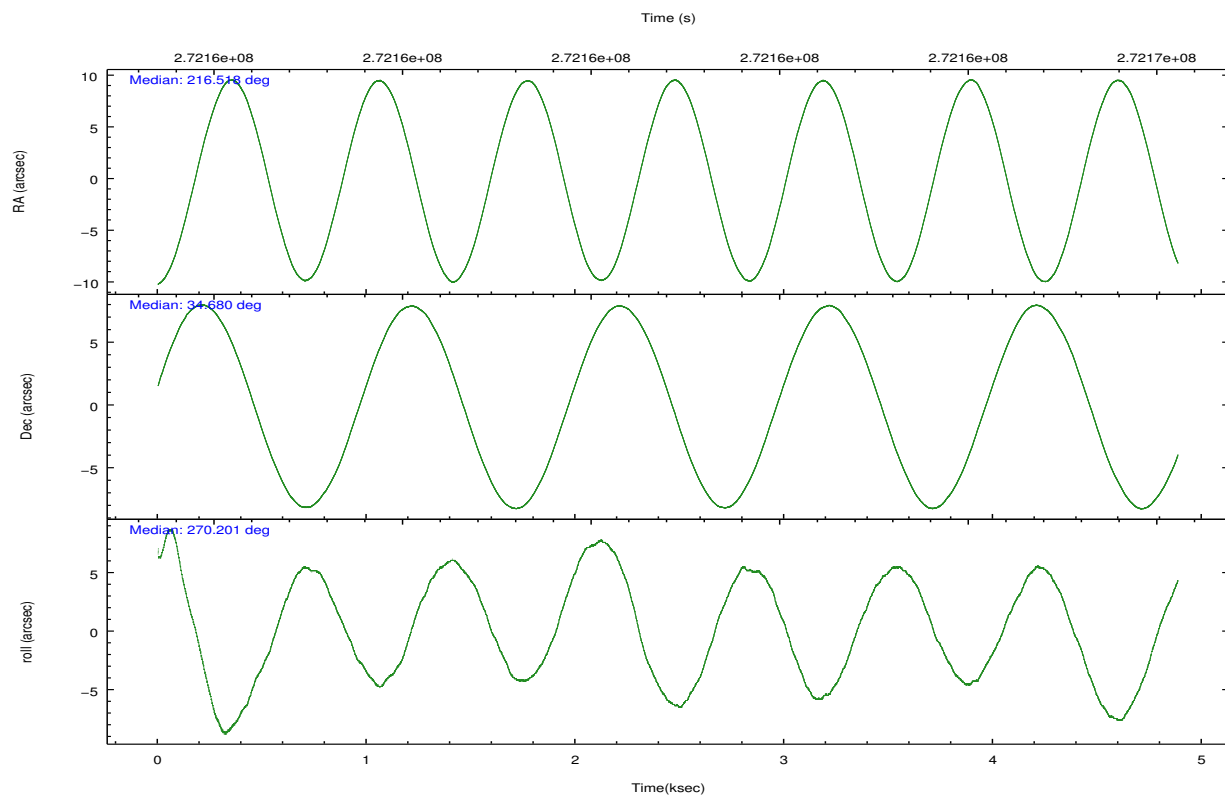


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	216.501246	216.5181587659677	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.703728	34.68011434966105	Alternating exposures requested	N	N
[deg] Pointing Roll	270.010852	270.2098980066501	[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)	272161149.184000	272160773.28441			
Observation start date	2006-08-17T00:18:04	2006-08-17T00:12:53			
[s] Observation end time (MET)	272165849.184000	272166041.27216			
Observation end date	2006-08-17T01:36:24	2006-08-17T01:40:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect



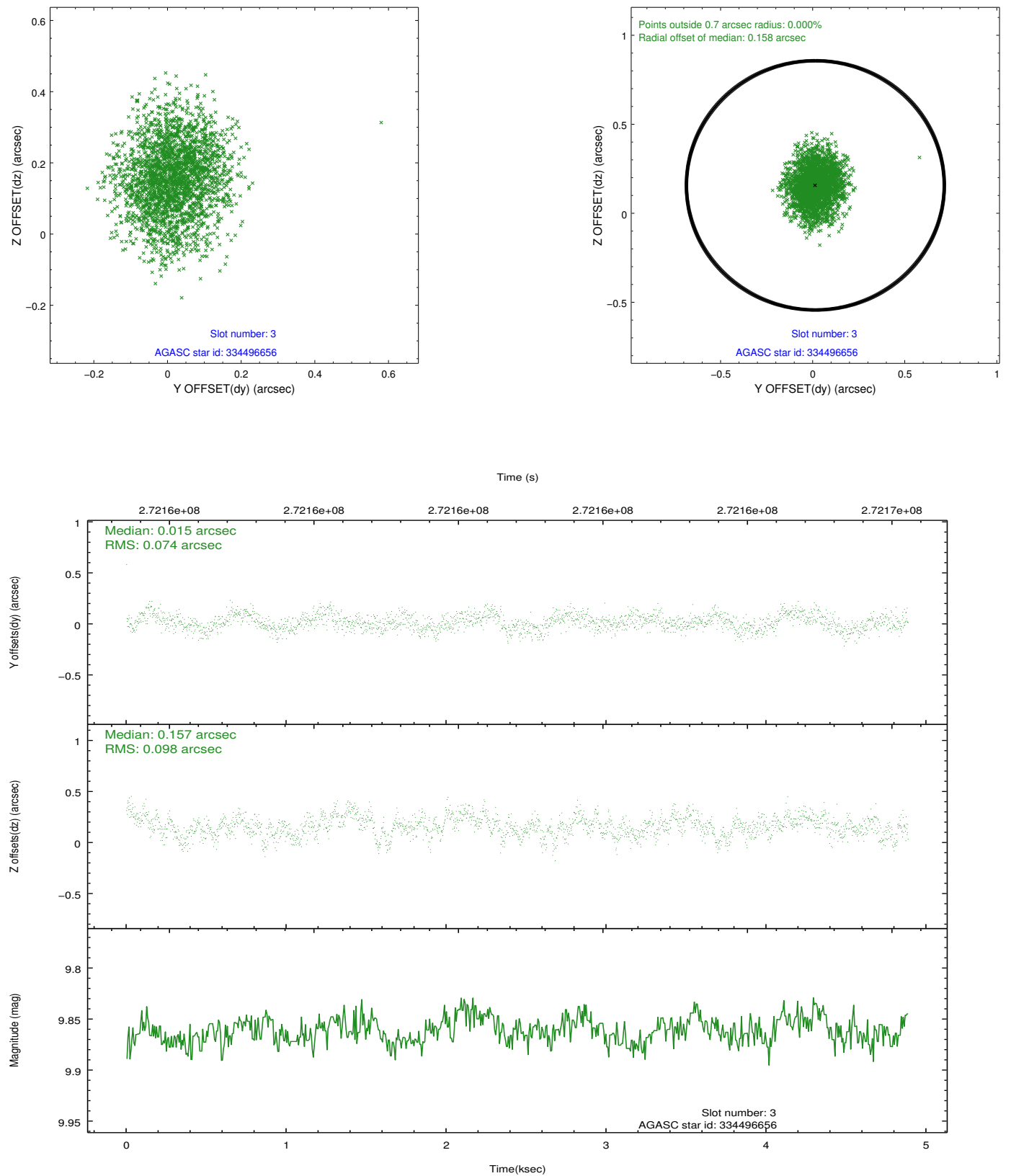


### Slot Statistics

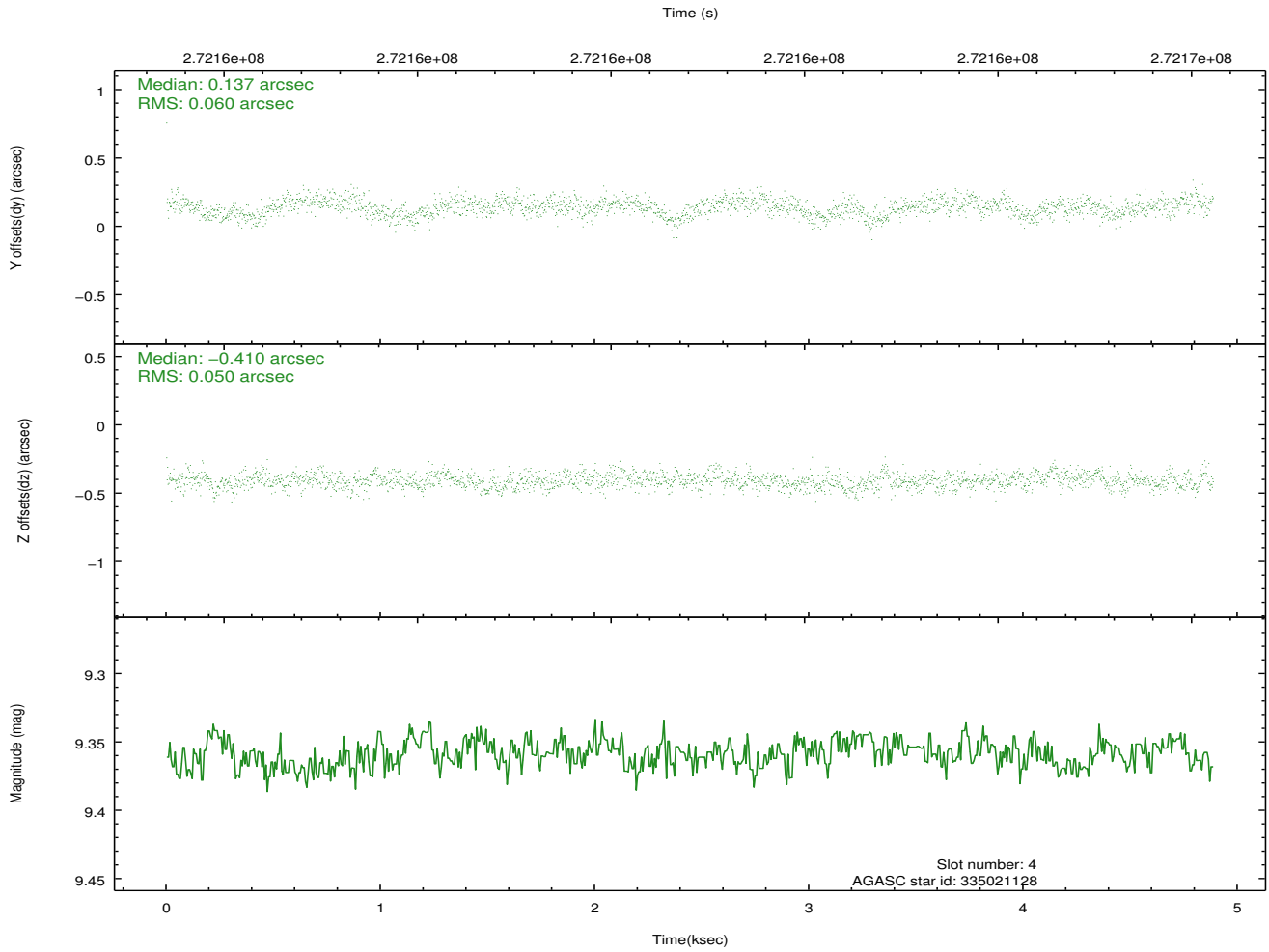
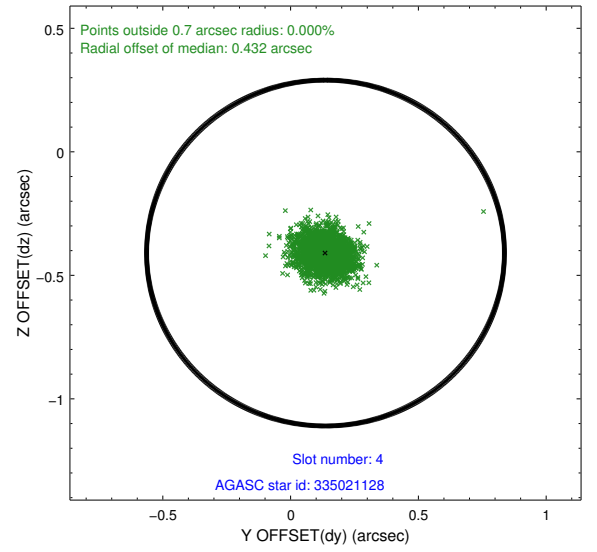
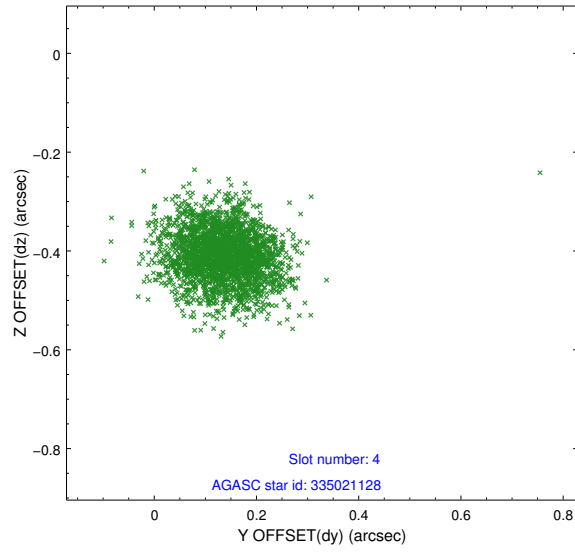
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1192	-0.079	-0.118	0.009	0.016	0.000000	0.000000	-761.86	-841.54
1	FID	ACIS-I-4	7.17	1191	0.155	0.081	0.006	0.011	0.000000	0.000000	2151.87	1064.20
2	FID	ACIS-I-5	7.22	1192	-0.176	0.106	0.009	0.014	0.000000	0.000000	-1814.17	1063.50
3	GUIDE	334496656	9.86	2381	0.015	0.157	0.132	0.212	215.929218	35.031287	-1183.76	-1685.98
4	GUIDE	335021128	9.36	2383	0.137	-0.410	0.083	0.133	216.159551	34.422539	1010.49	-1015.77
5	GUIDE	335028336	9.47	2382	-0.162	0.125	0.123	0.197	217.189840	34.665629	130.83	2038.66
6	GUIDE	335030384	8.83	2384	0.094	0.135	0.073	0.116	216.806407	34.722197	-67.36	904.02
7	GUIDE	335419408	9.43	2371	-0.086	-0.005	0.099	0.157	217.210194	35.075700	-1346.27	2089.26

## 2.4 Star Slots

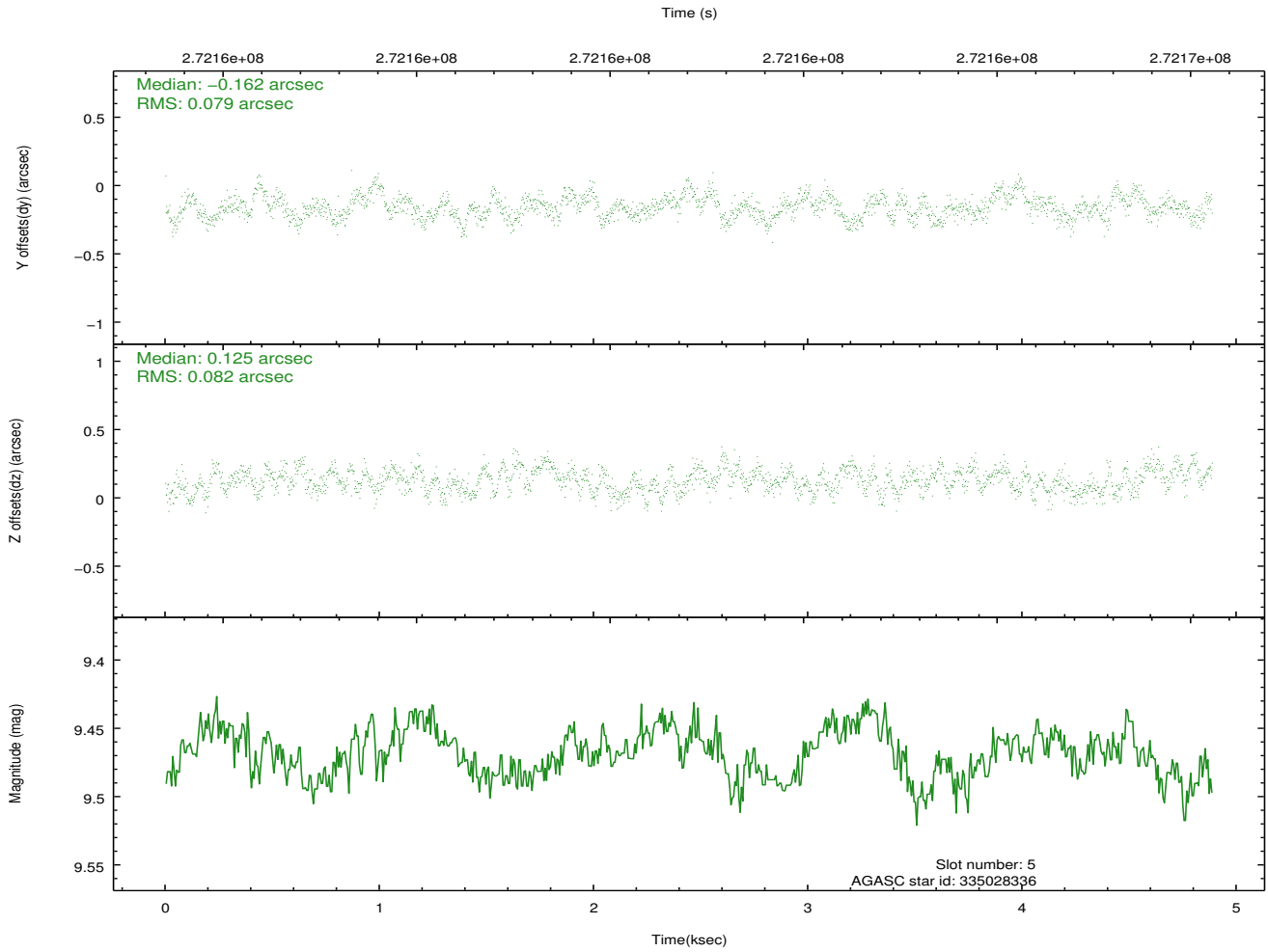
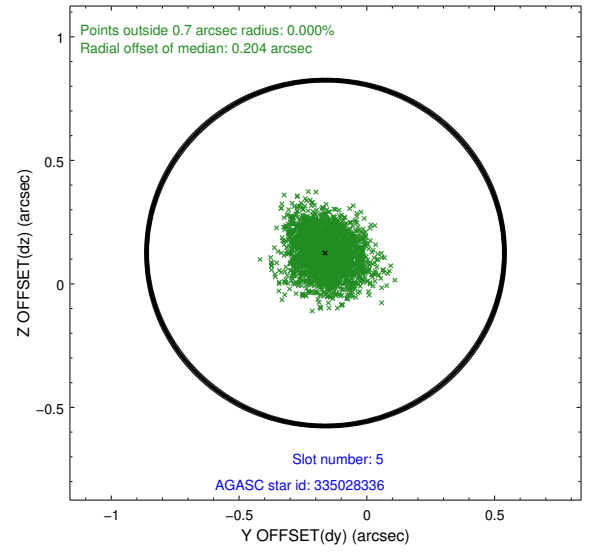
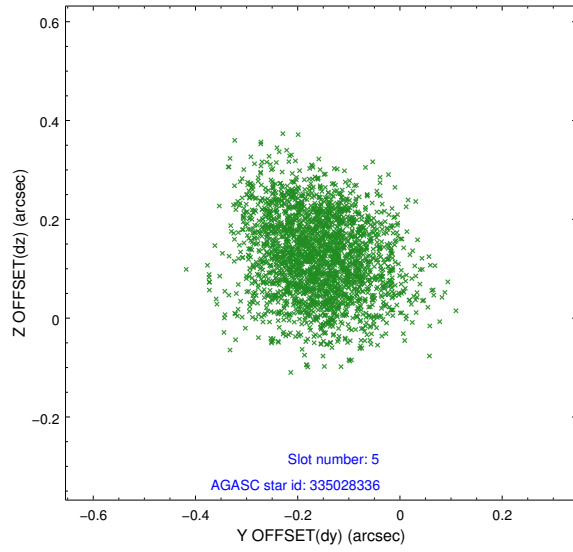
### 2.4.1 Slot 3



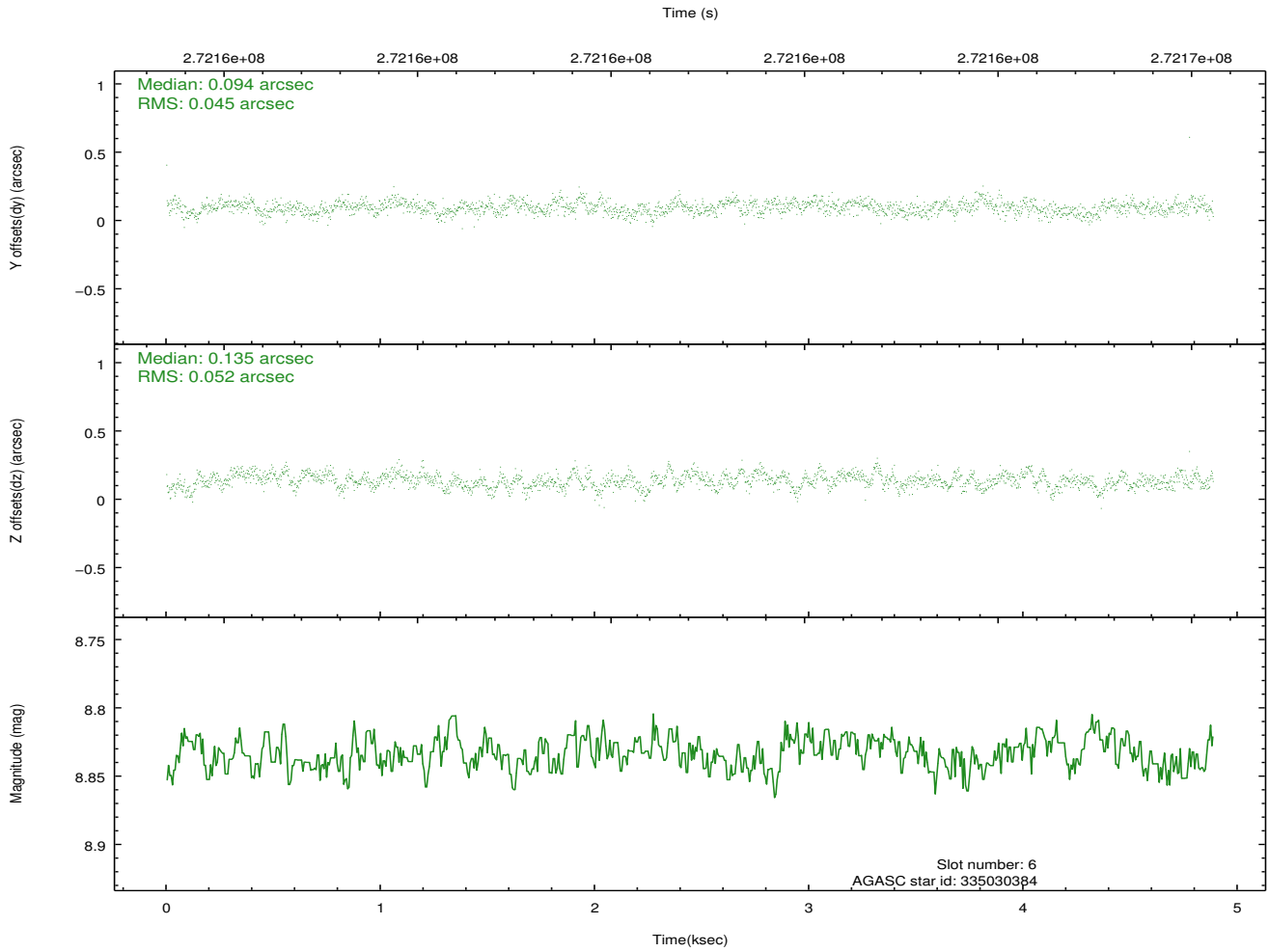
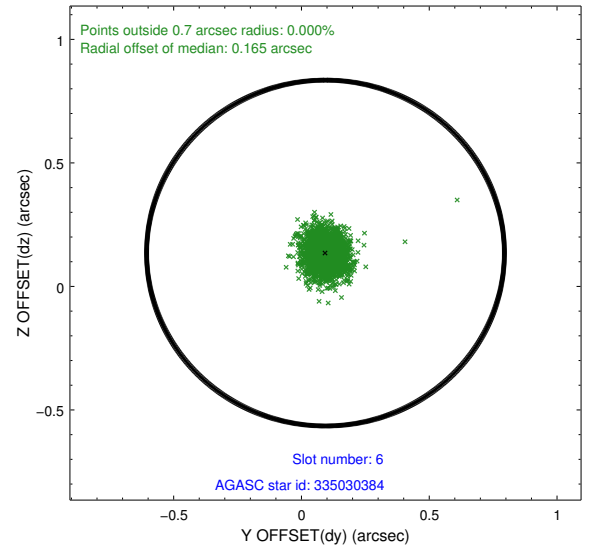
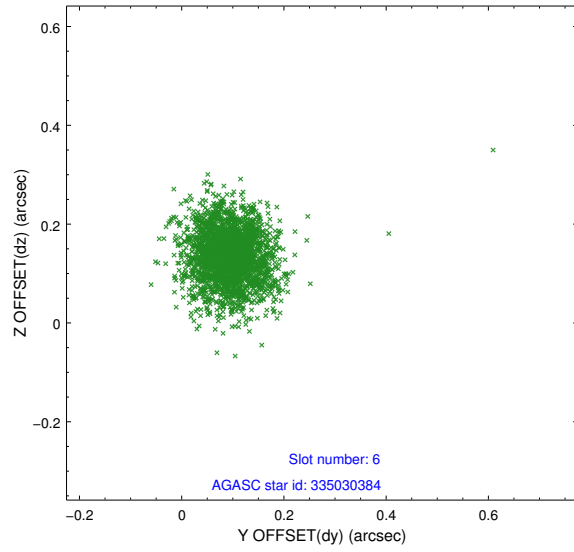
## 2.4.2 Slot 4



### 2.4.3 Slot 5

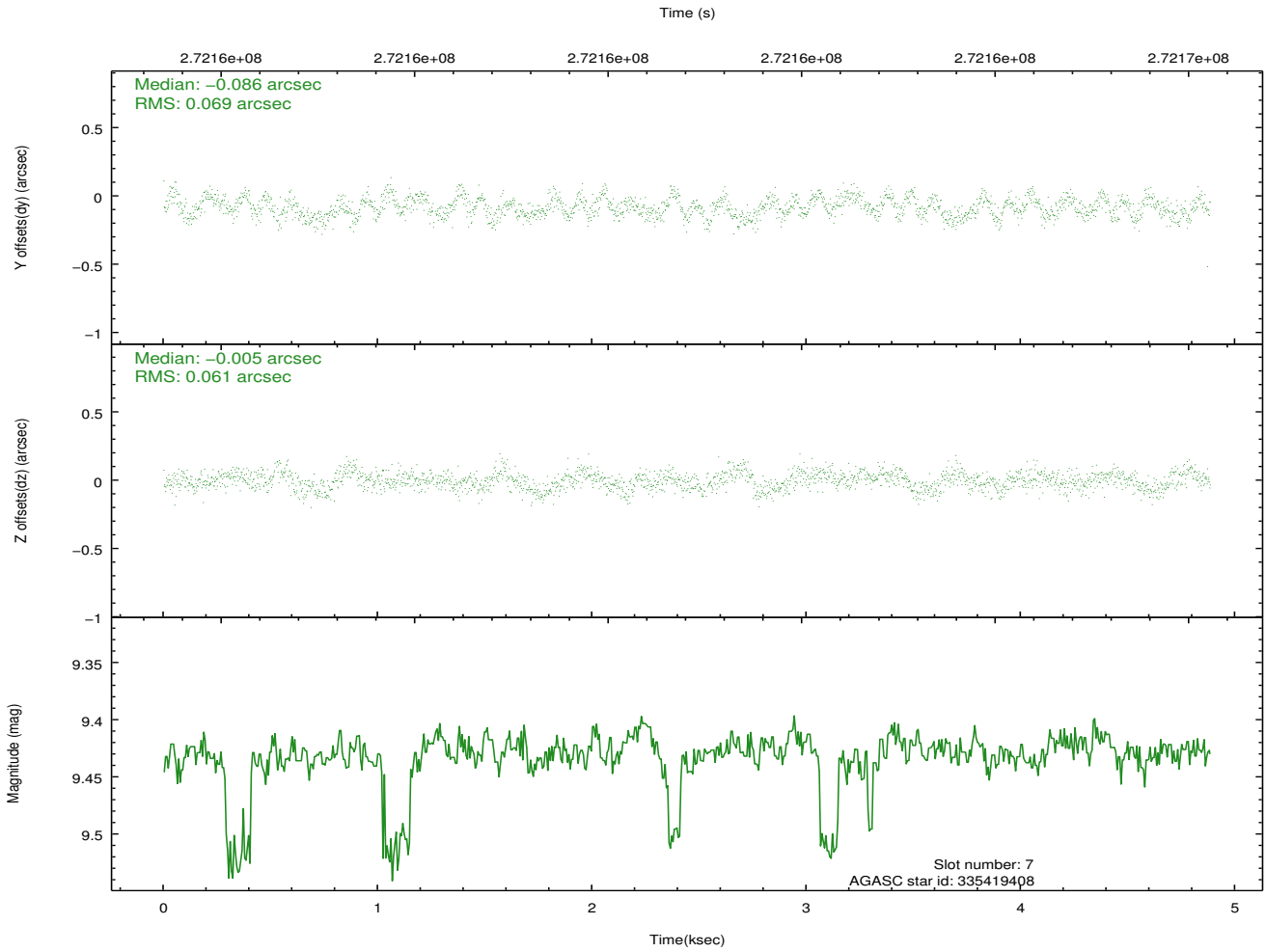
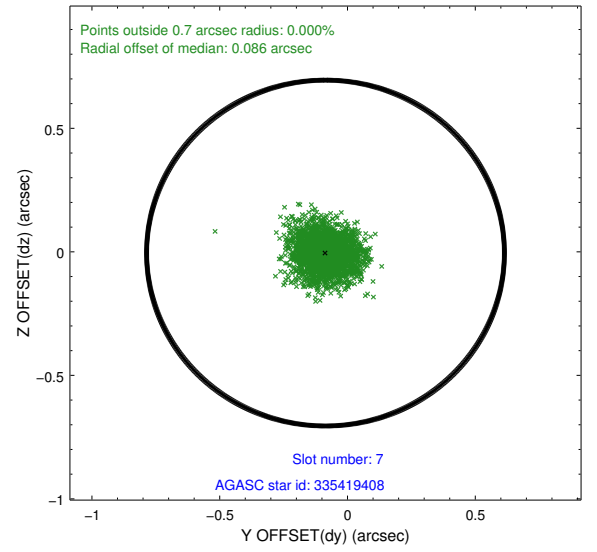
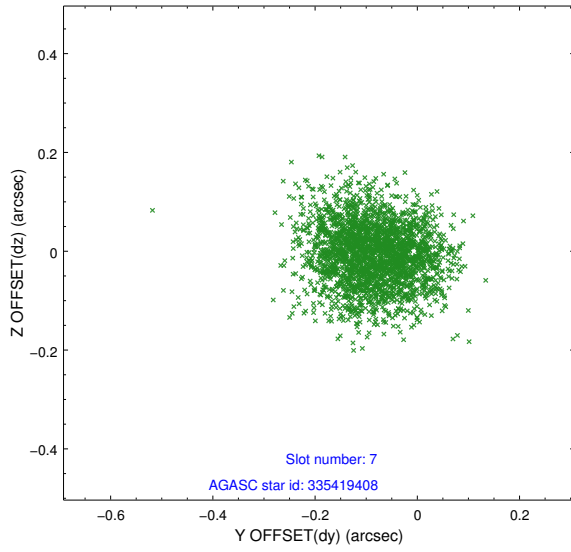


## 2.4.4 Slot 6



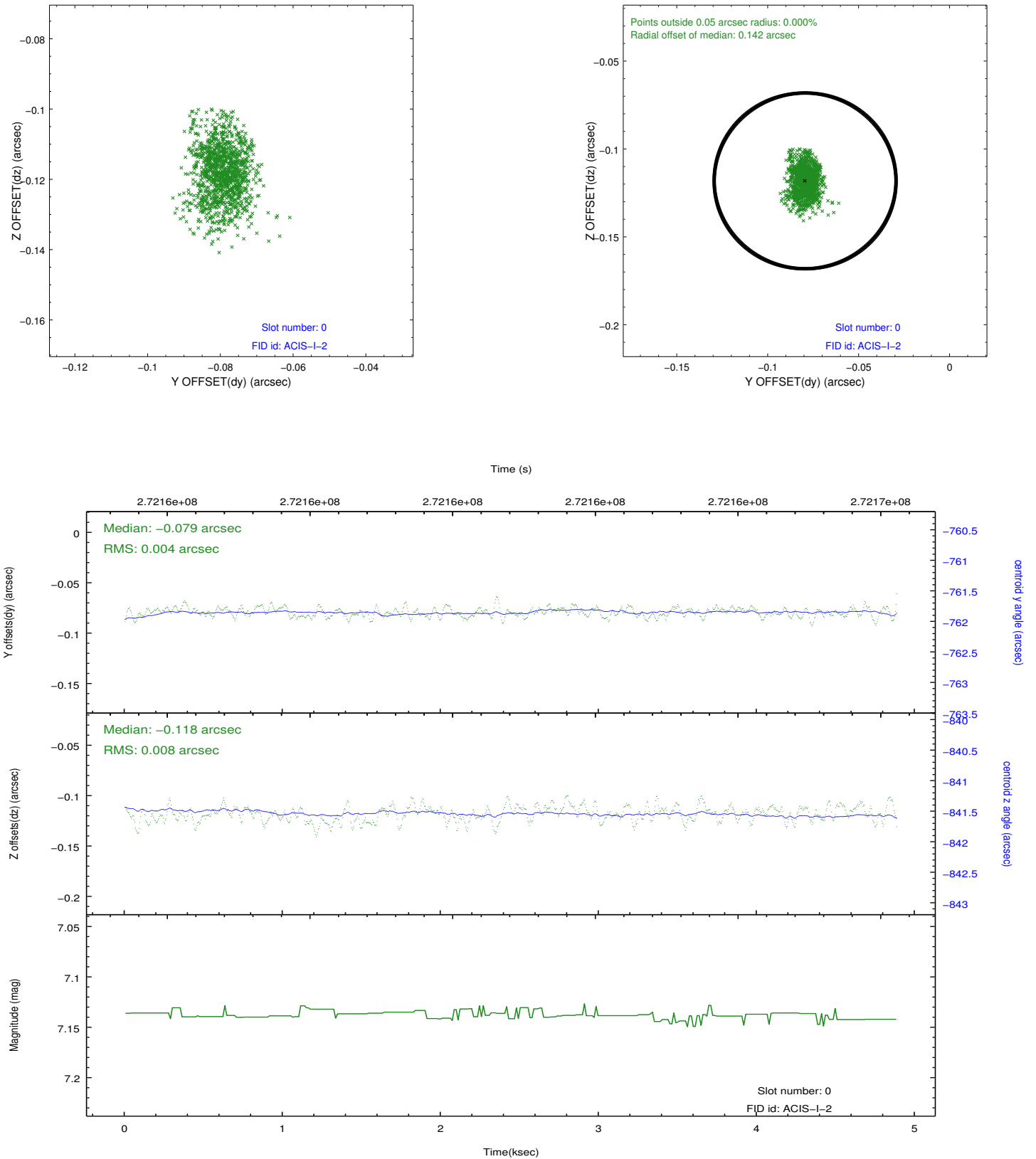


## 2.4.5 Slot 7

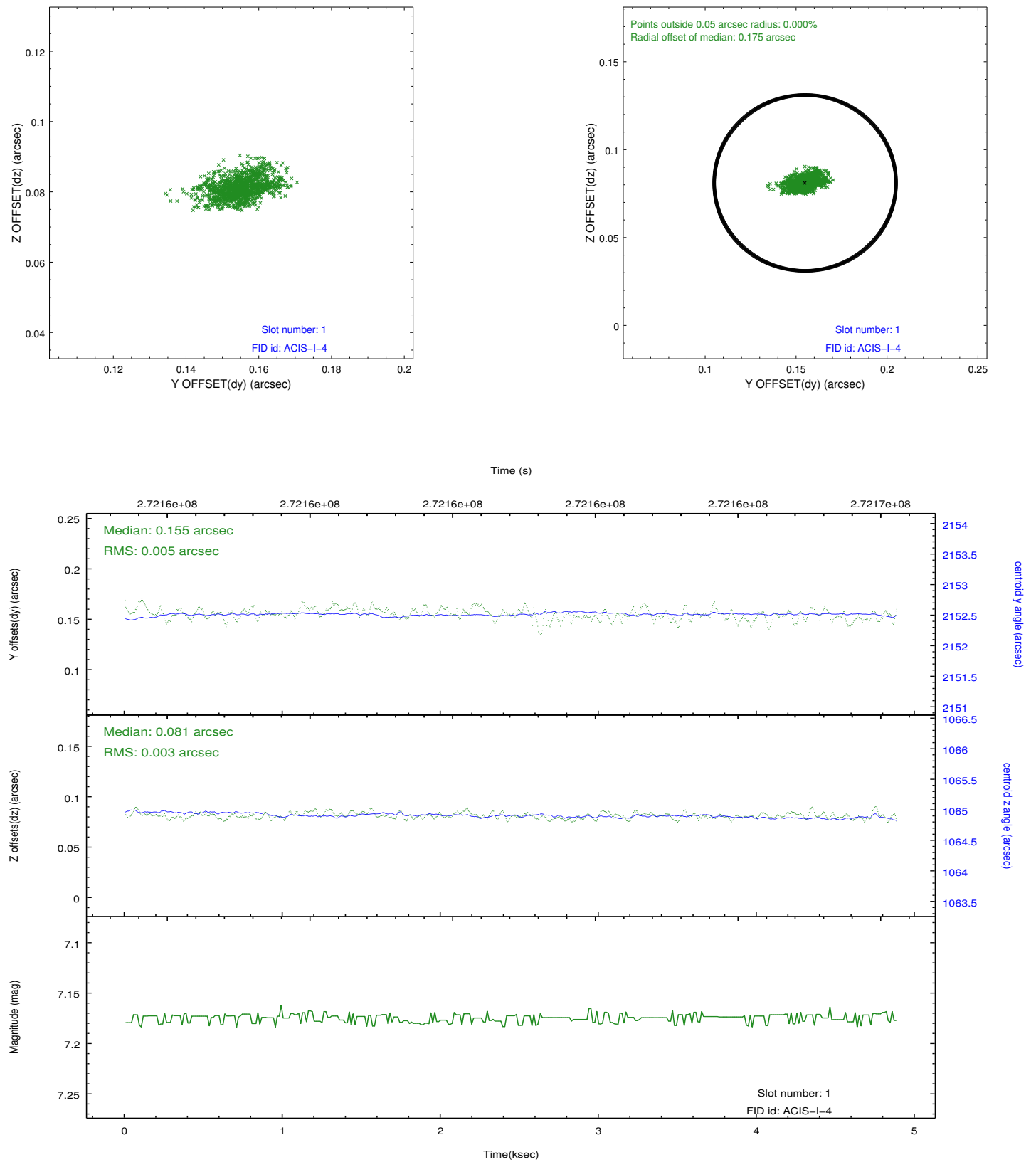


## 2.5 FID Slots

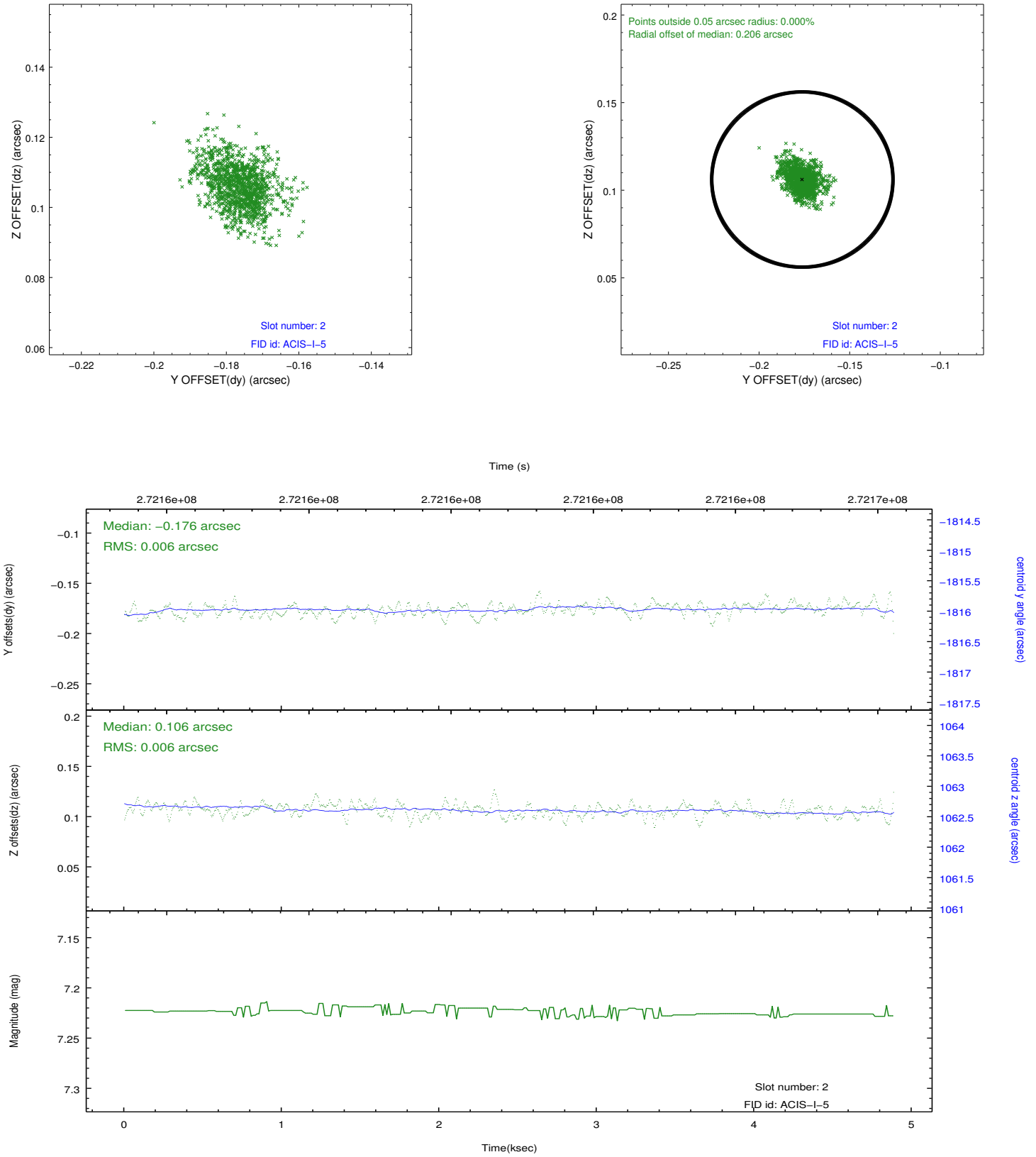
### 2.5.1 Slot 0



## 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)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.47020003

### A.2 Comments