

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3633 - L2 Version 3  
Chandra X-Ray Center

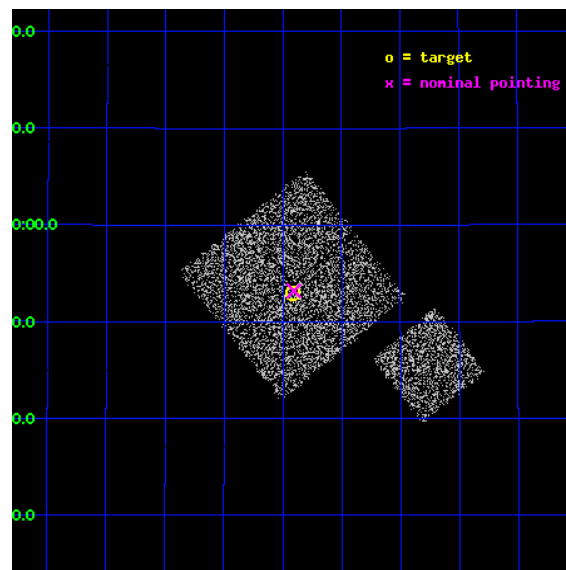
L2 Processing Date : Oct 25 2012

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# 1 Front

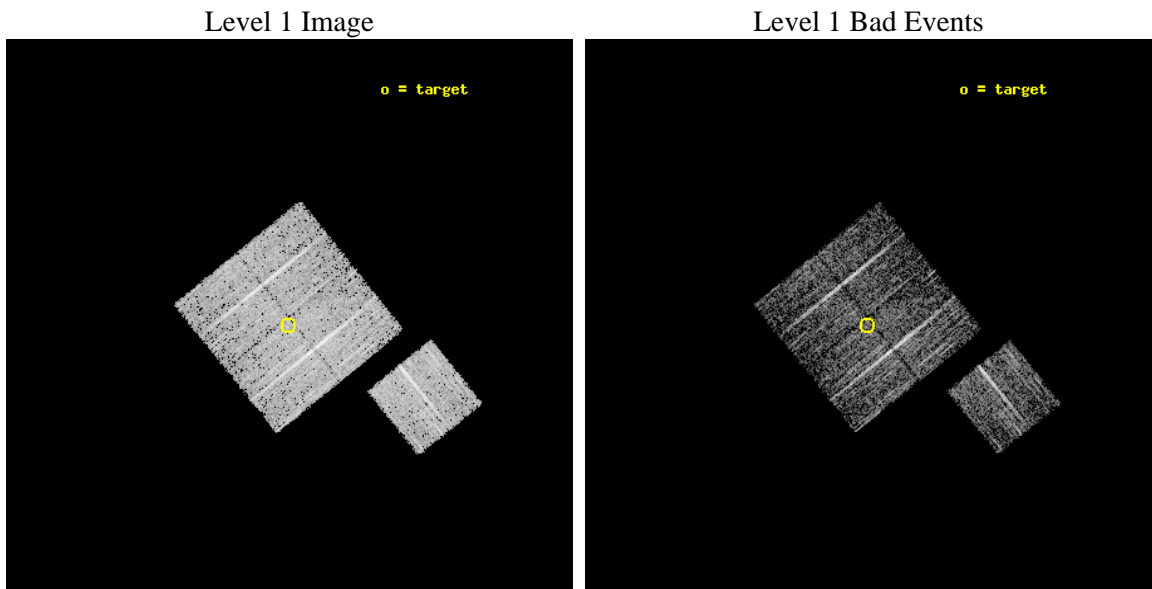
seq_num	900233	Sequence number
obs_id	3633	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F29	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.604097	Observer's specified target RA [deg]
dec_targ	34.882776	Observer's specified target Dec [deg]
ra_nom	217.60142249776	Nominal RA [deg]
dec_nom	34.88692766605	Nominal Dec [deg]
roll_nom	141.01030898771	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4810.1628074944	Sum of GTIs [s]
livetime	4747.3144892241	Livetime [s]
ontime0	4810.0396874845	Sum of GTIs [s]
ontime1	4810.0807274878	Sum of GTIs [s]
ontime2	4810.1217674911	Sum of GTIs [s]
ontime3	4810.1628074944	Sum of GTIs [s]
ontime6	4809.9986474812	Sum of GTIs [s]
l2events	9520	Number of level 2 events



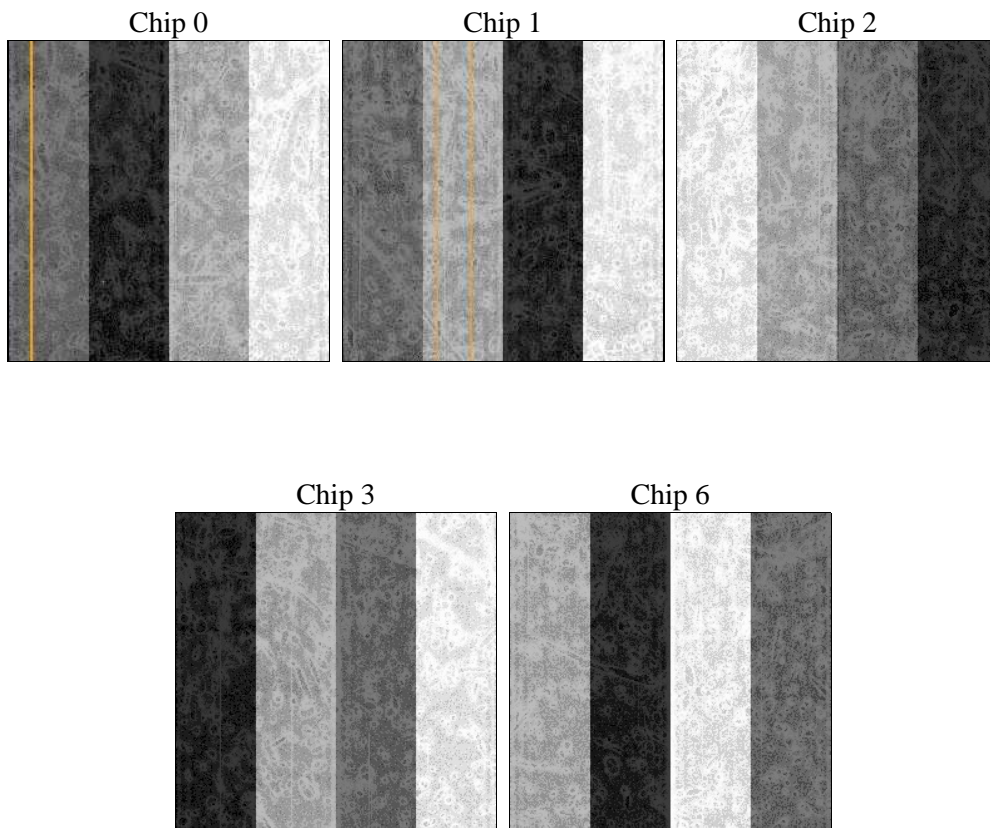
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4810.1628074944	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4810.0396874845	Sum of GTIs [s]
date	2012-10-25T15:28:52	Date and time of file creation	ontime1	4810.0807274878	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4810.1217674911	Sum of GTIs [s]
			ontime3	4810.1628074944	Sum of GTIs [s]
			ontime6	4809.9986474812	Sum of GTIs [s]
			l1events	116617	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	20967	21539	24411	24586	25114
rejected events	18645	19107	22104	22357	22827
rejected %	88%	88%	90%	90%	90%

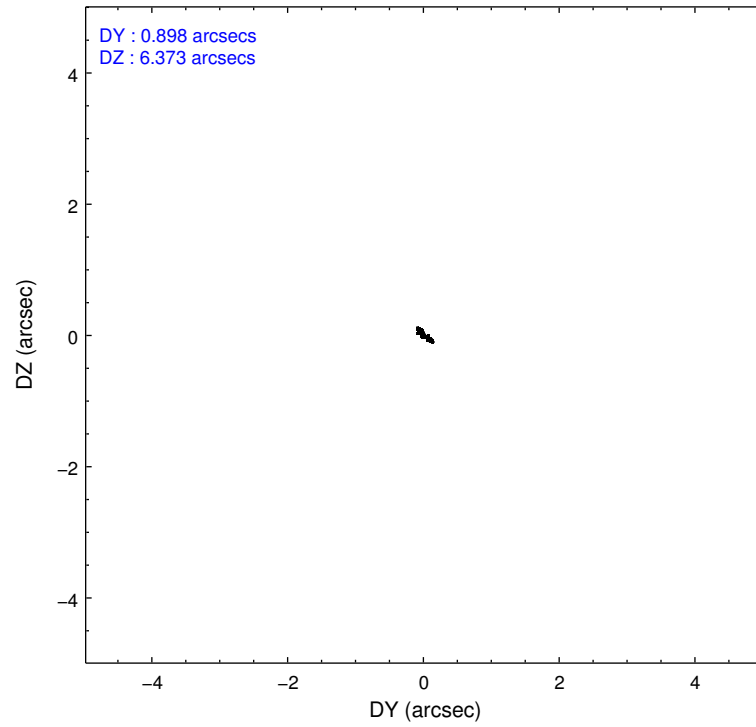
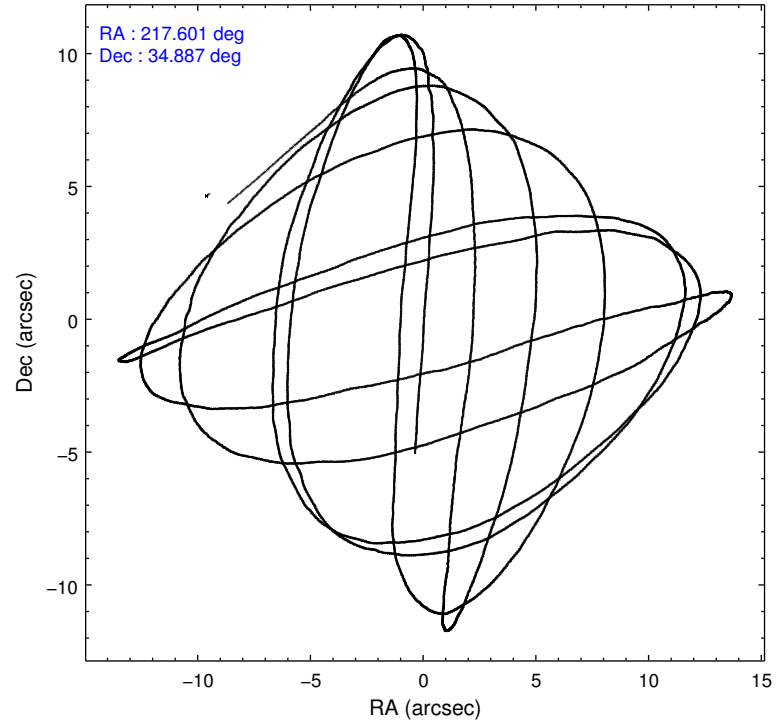
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	801	874	887	811	844
	3%	4%	3%	3%	3%
grade 1 events	17	10	11	7	10
	0%	0%	0%	0%	0%
grade 2 events	555	512	509	441	459
	2%	2%	2%	1%	1%
grade 3 events	255	293	238	289	275
	1%	1%	0%	1%	1%
grade 4 events	268	270	284	245	270
	1%	1%	1%	0%	1%
grade 5 events	666	769	605	802	750
	3%	3%	2%	3%	2%
grade 6 events	445	485	391	445	442
	2%	2%	1%	1%	1%
grade 7 events	17960	18326	21486	21546	22064
	85%	85%	88%	87%	87%

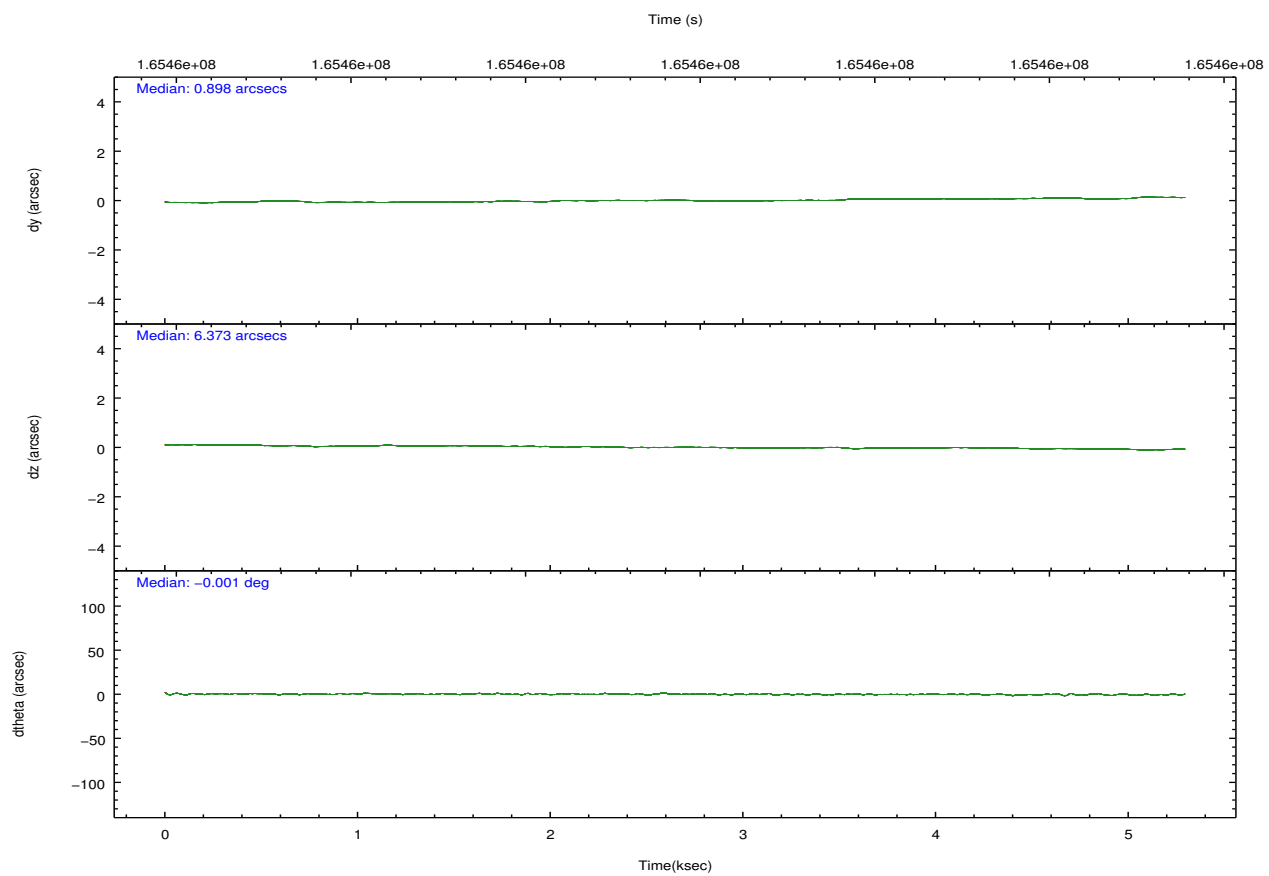
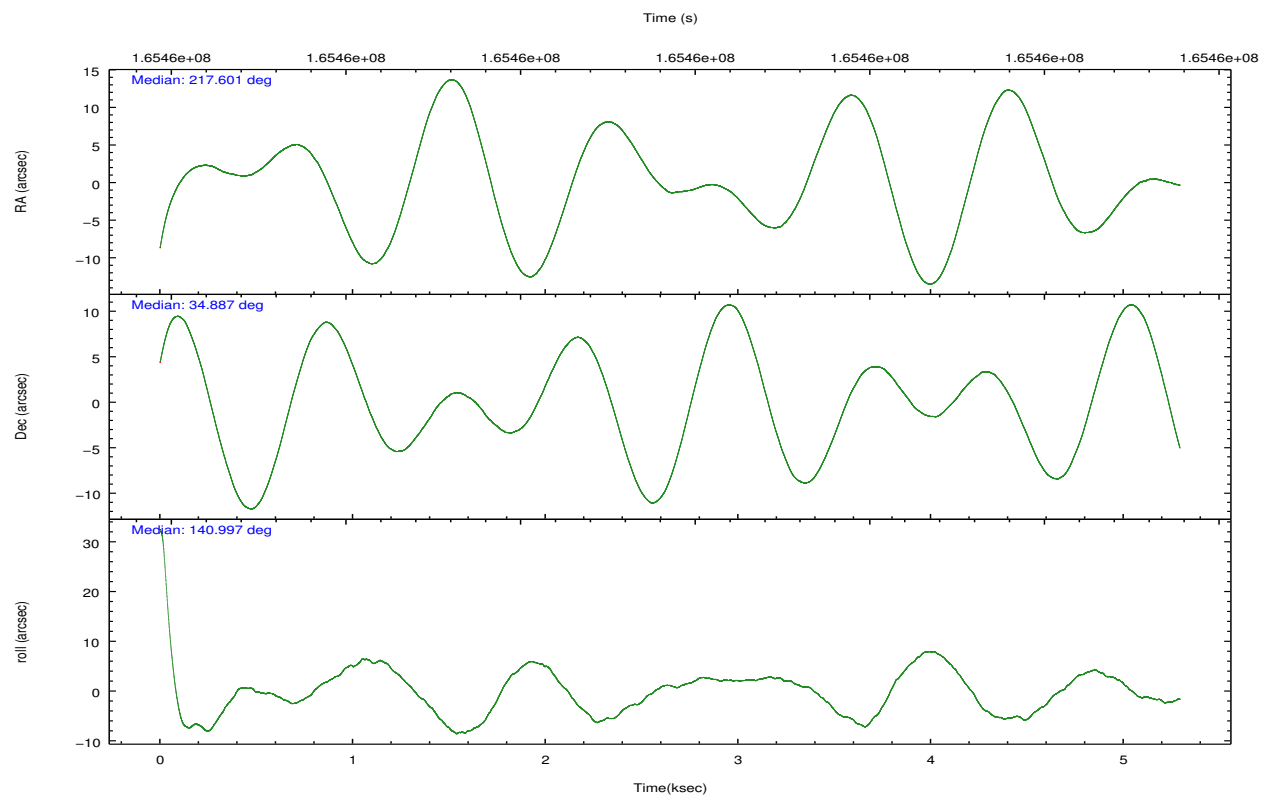


## 2.2 Compared Parameters

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	217.634427	217.6014224977602	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.882694	34.88692766605037	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782652	141.0103089877104	[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)	165458604.184000	165457538.70276			
Observation start date	2003-03-31T00:42:20	2003-03-31T00:25:38			
[s] Observation end time (MET)	165463504.184000	165463637.96552			
Observation end date	2003-03-31T02:04:00	2003-03-31T02:07:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect



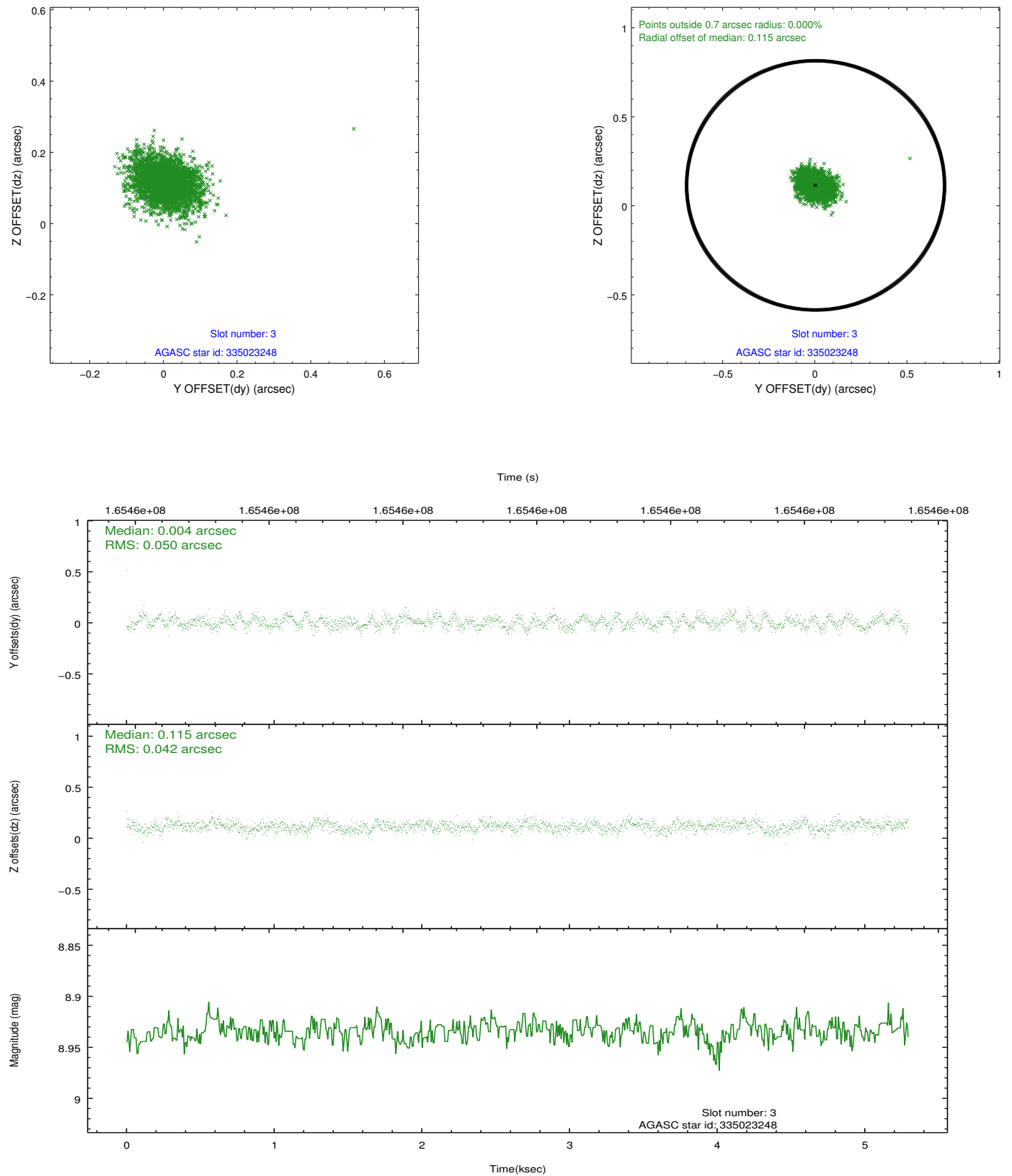


### Slot Statistics

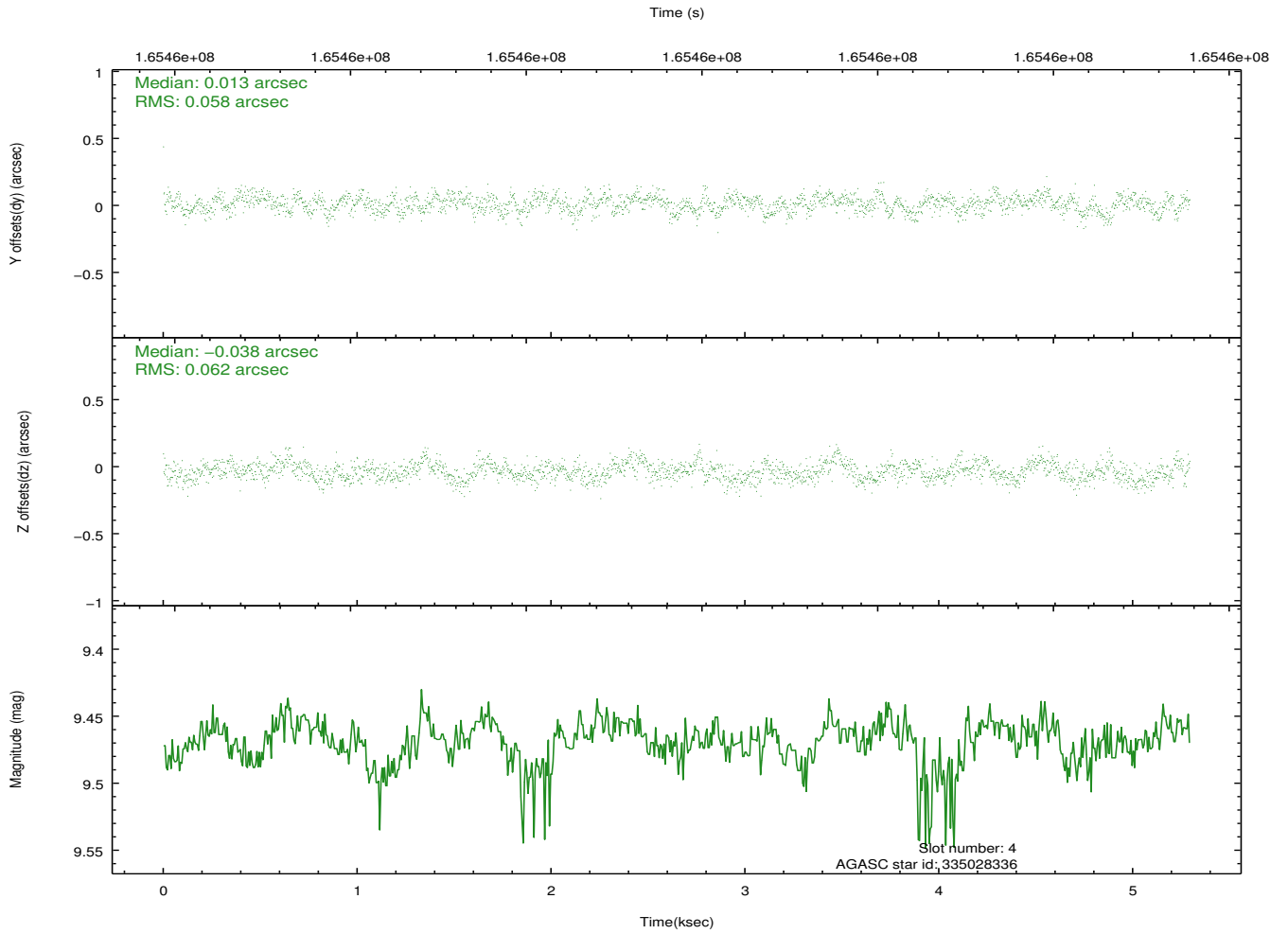
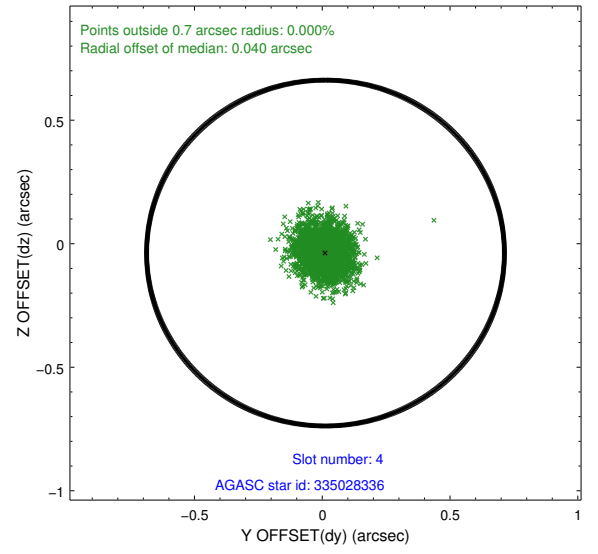
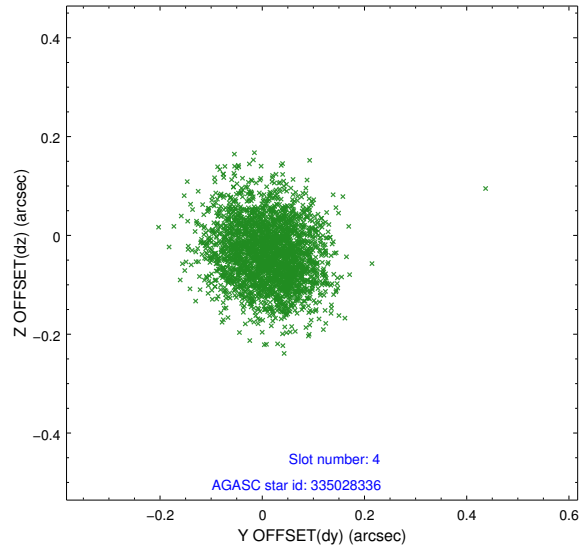
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1292	0.003	0.006	0.007	0.011	0.000000	0.000000	938.93	-829.77
1	FID	ACIS-I-5	7.23	1291	-0.080	0.044	0.006	0.011	0.000000	0.000000	-1808.58	1067.24
2	FID	ACIS-I-6	7.26	1292	-0.014	0.020	0.007	0.012	0.000000	0.000000	403.28	1712.97
3	GUIDE	335023248	8.93	2582	0.004	0.115	0.068	0.111	217.634832	34.944512	139.77	-172.94
4	GUIDE	335028336	9.47	2580	0.013	-0.038	0.091	0.147	217.189840	34.665629	527.34	1435.58
5	GUIDE	335030384	8.84	2583	-0.072	-0.084	0.073	0.119	216.806407	34.722197	1538.91	1989.82
6	GUIDE	335417968	9.39	2582	0.096	-0.105	0.091	0.144	217.358149	35.055285	1024.97	33.52
7	GUIDE	335422272	9.50	2581	-0.041	0.112	0.084	0.143	217.586135	35.522660	1567.08	-1695.10

## 2.4 Star Slots

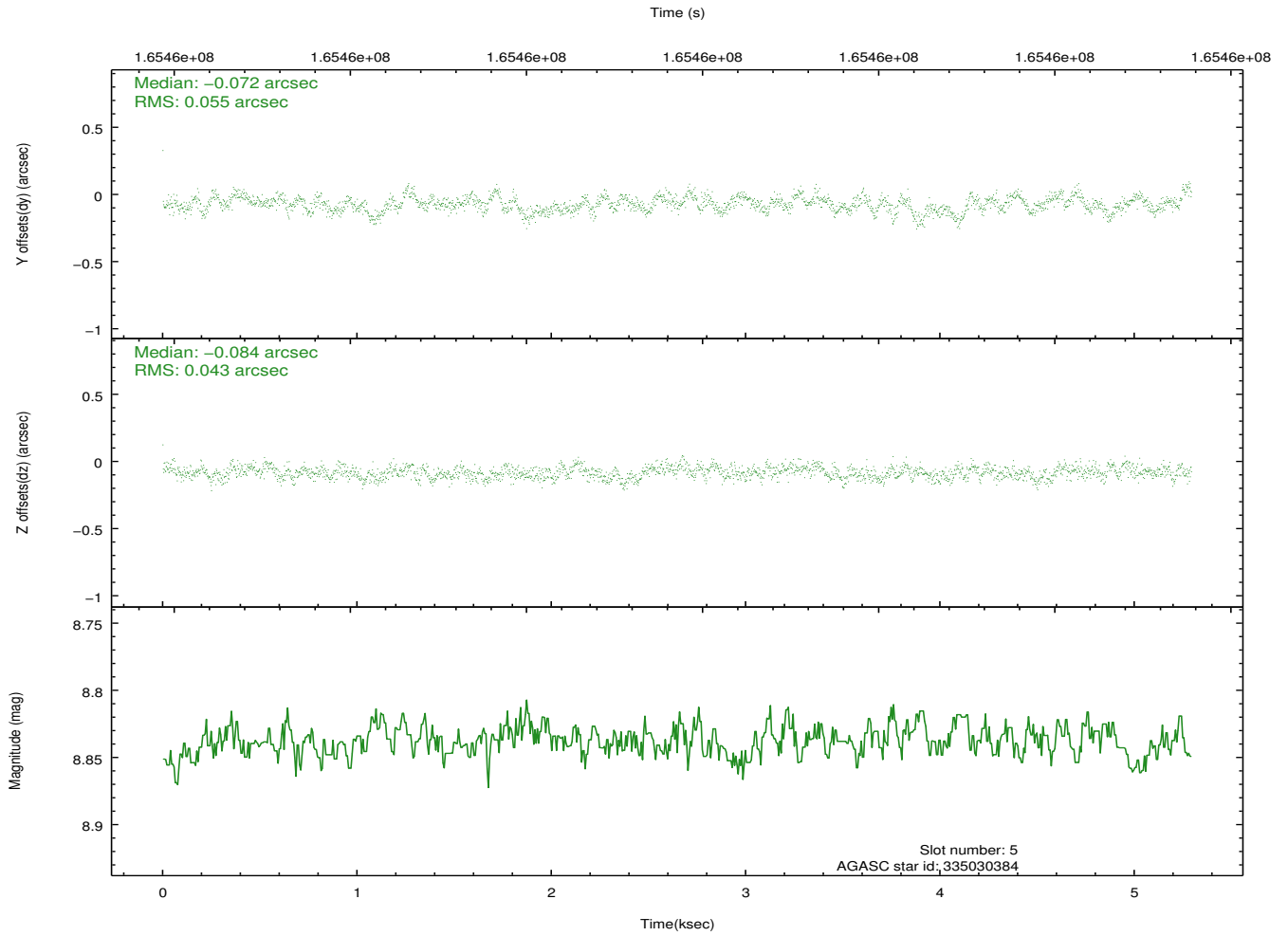
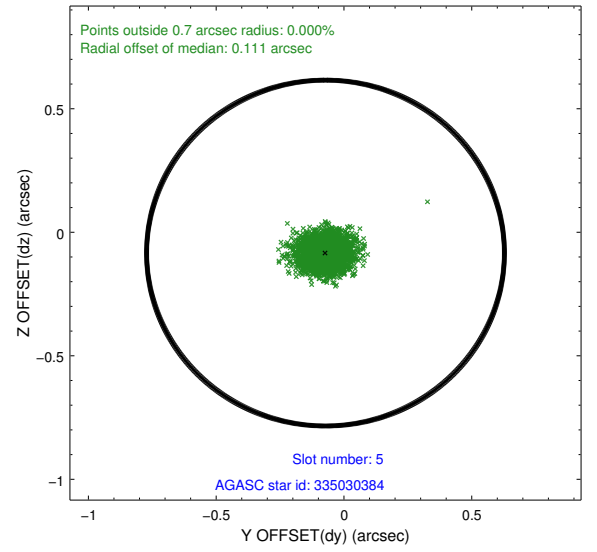
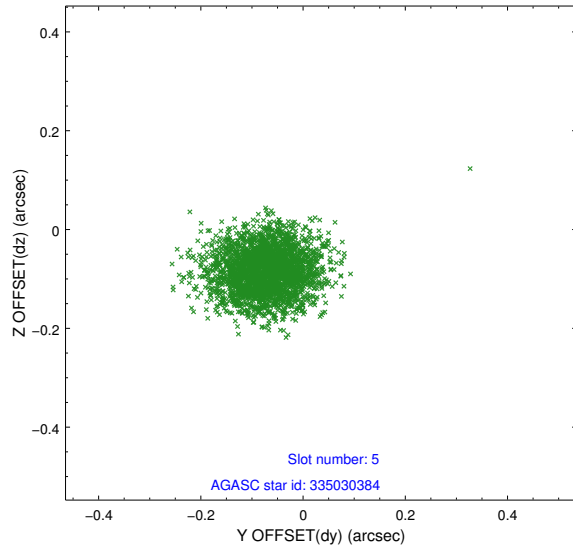
### 2.4.1 Slot 3



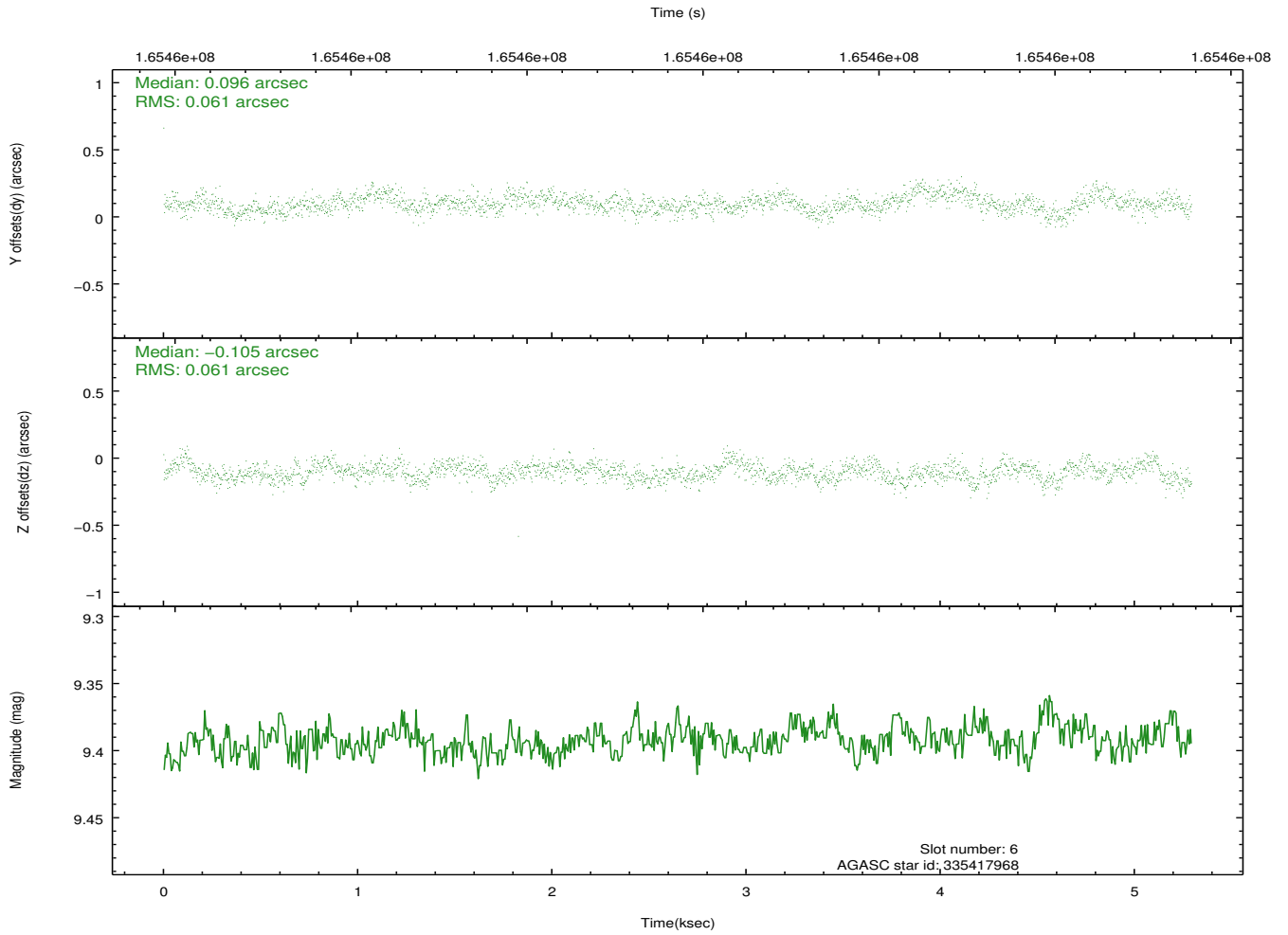
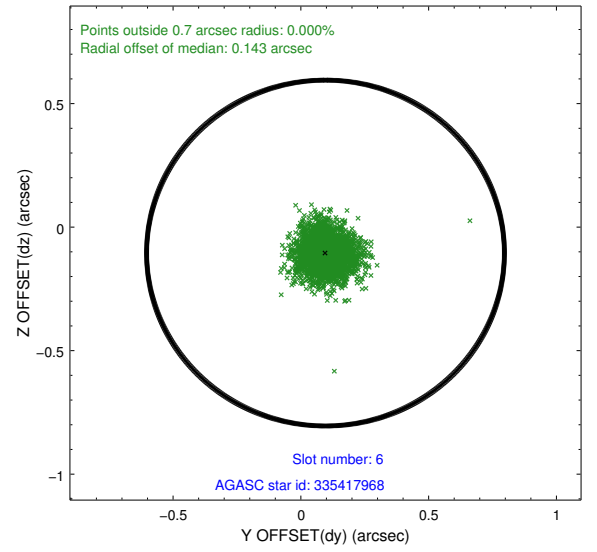
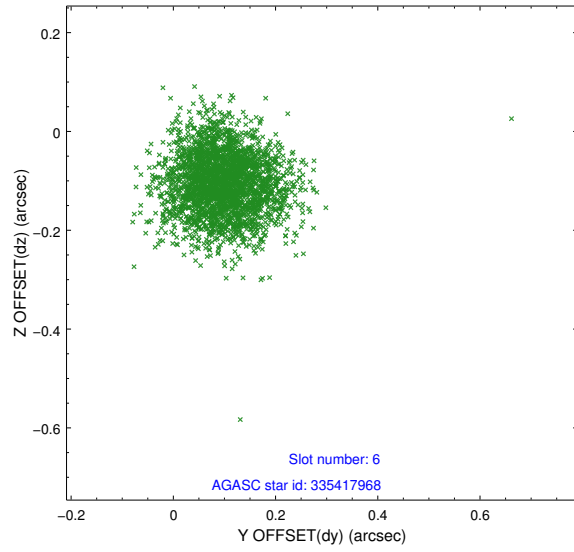
## 2.4.2 Slot 4



### 2.4.3 Slot 5

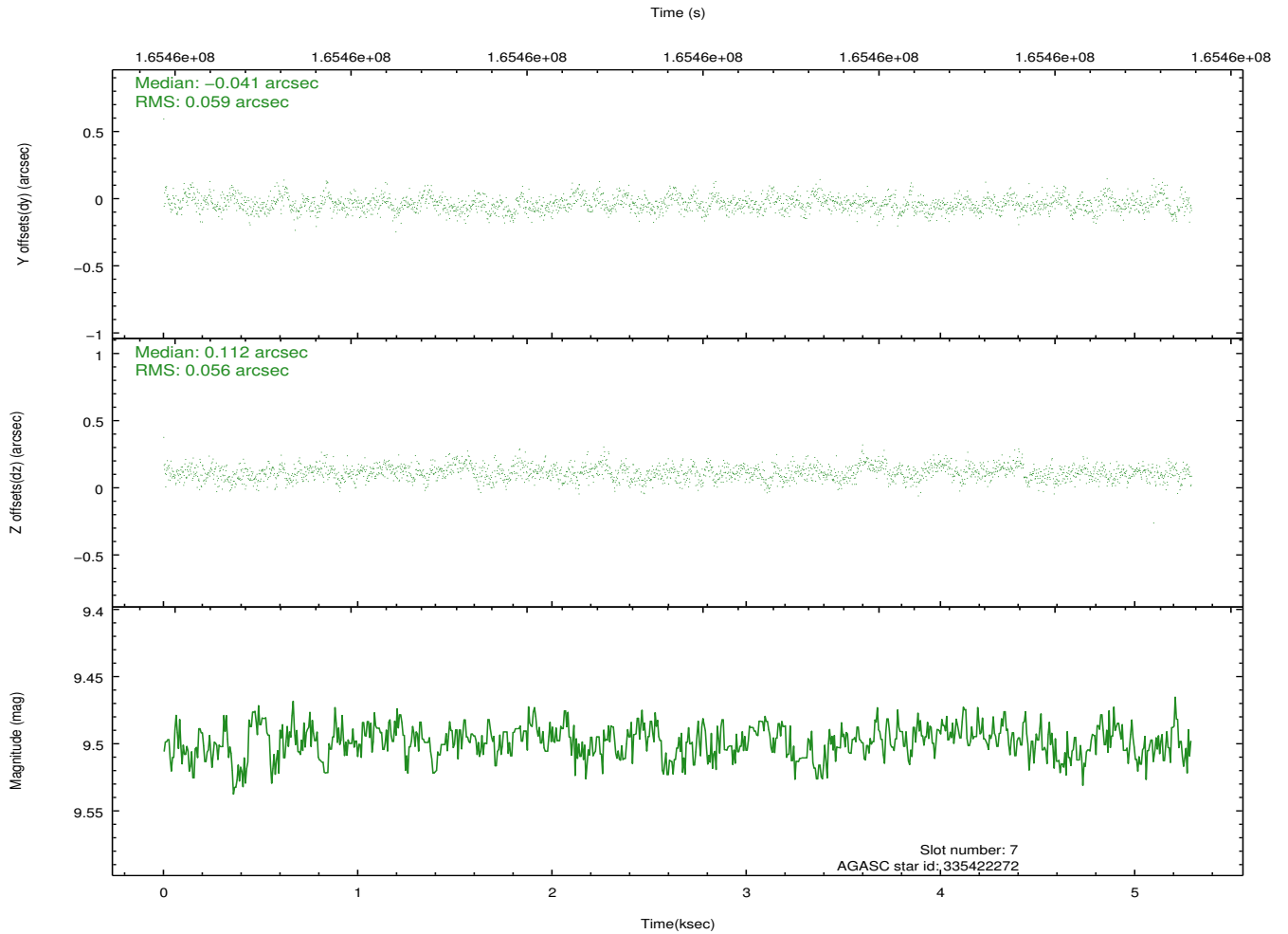
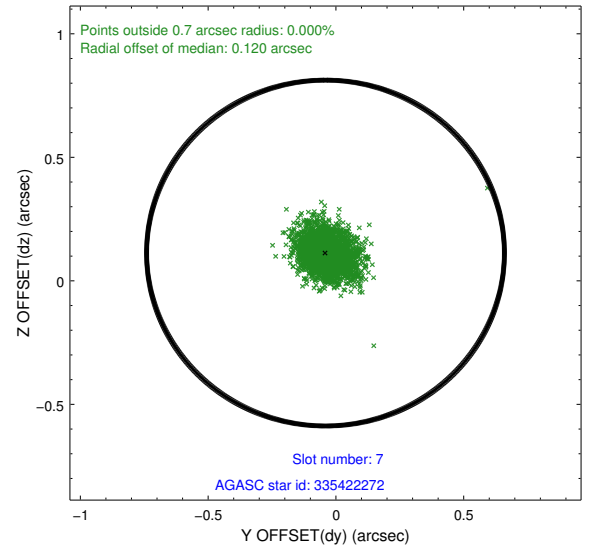
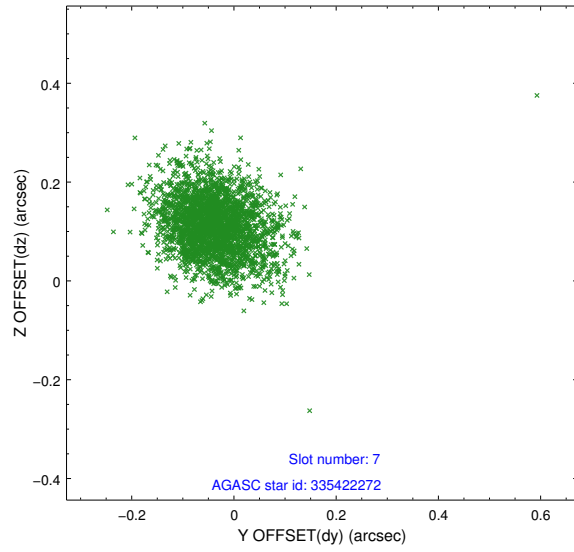


## 2.4.4 Slot 6



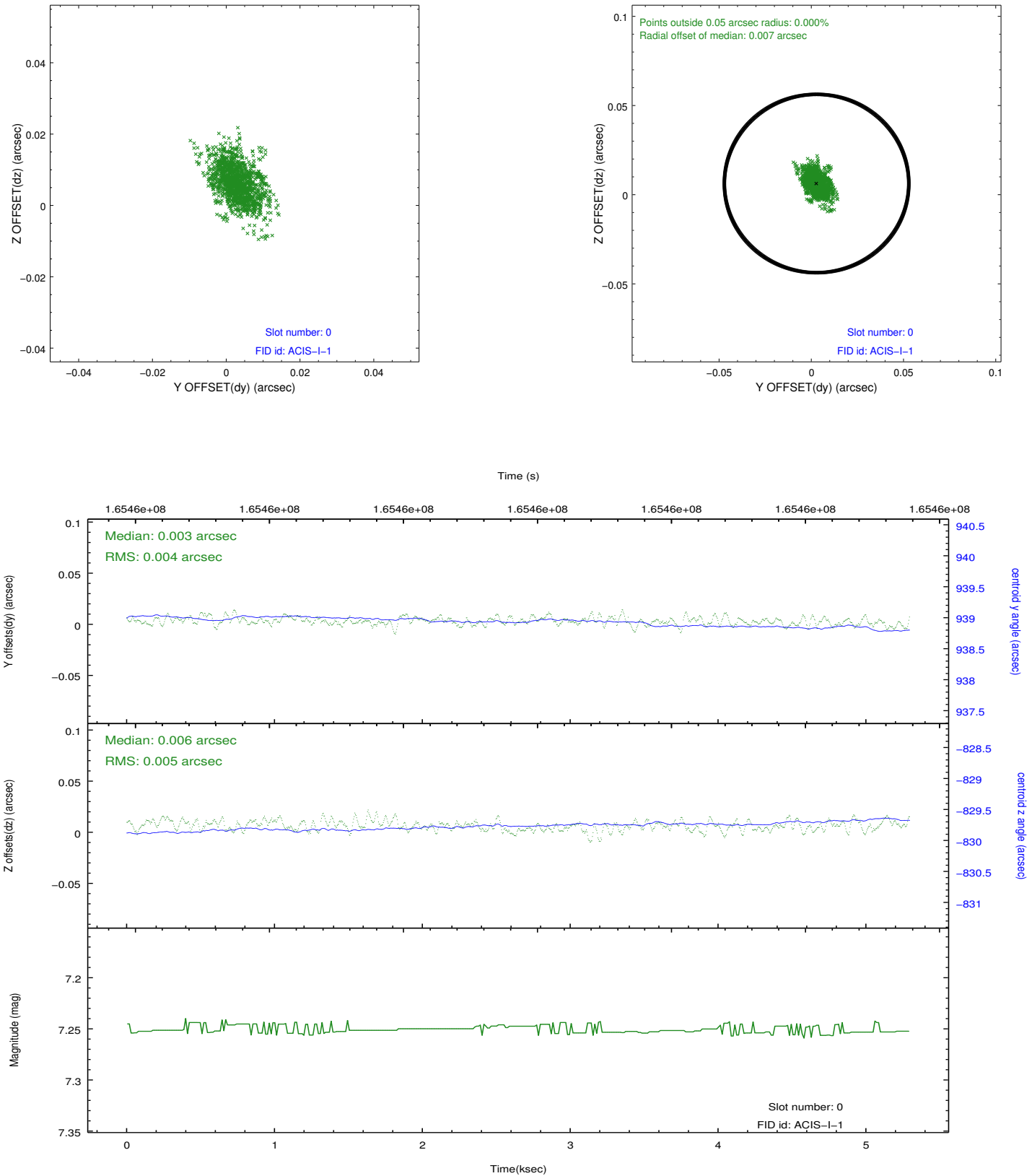


## 2.4.5 Slot 7

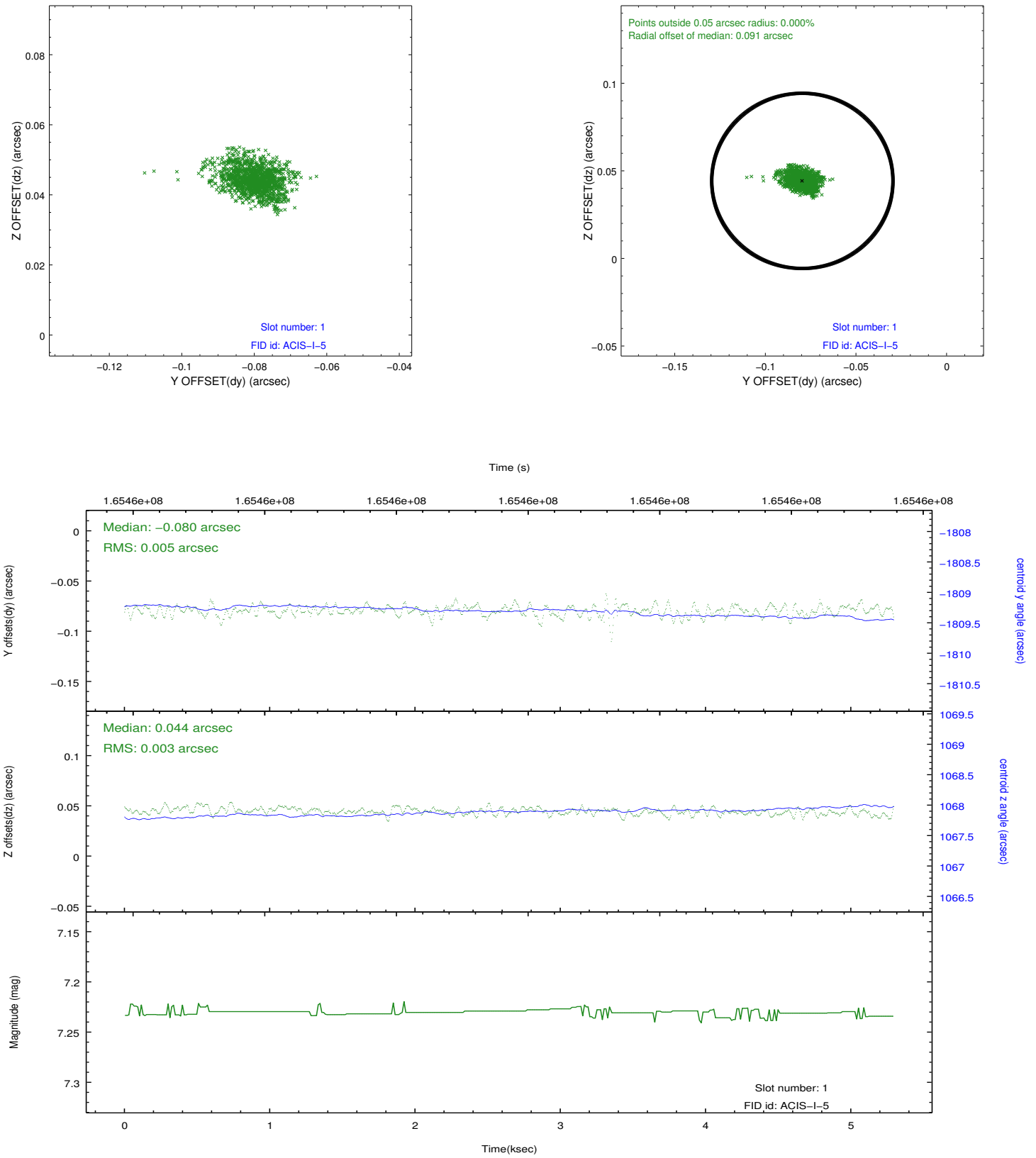


## 2.5 FID Slots

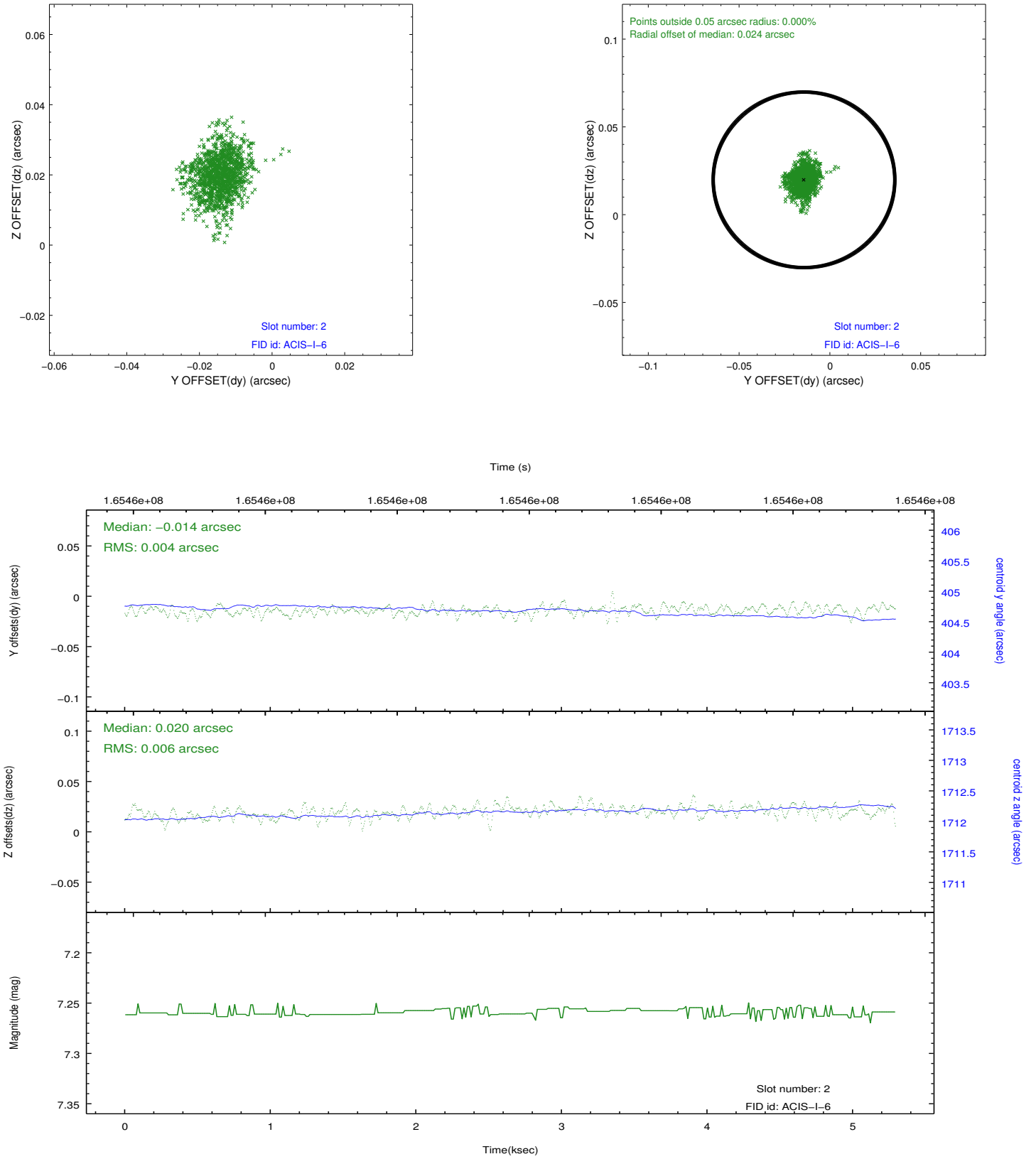
### 2.5.1 Slot 0



## 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)	2012.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.811

### A.2 Comments