

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3637 - L2 Version 3  
Chandra X-Ray Center

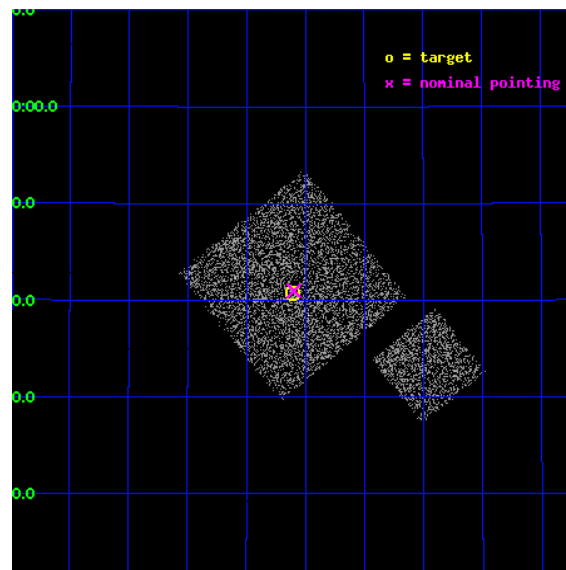
L2 Processing Date : Oct 24 2012

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# 1 Front

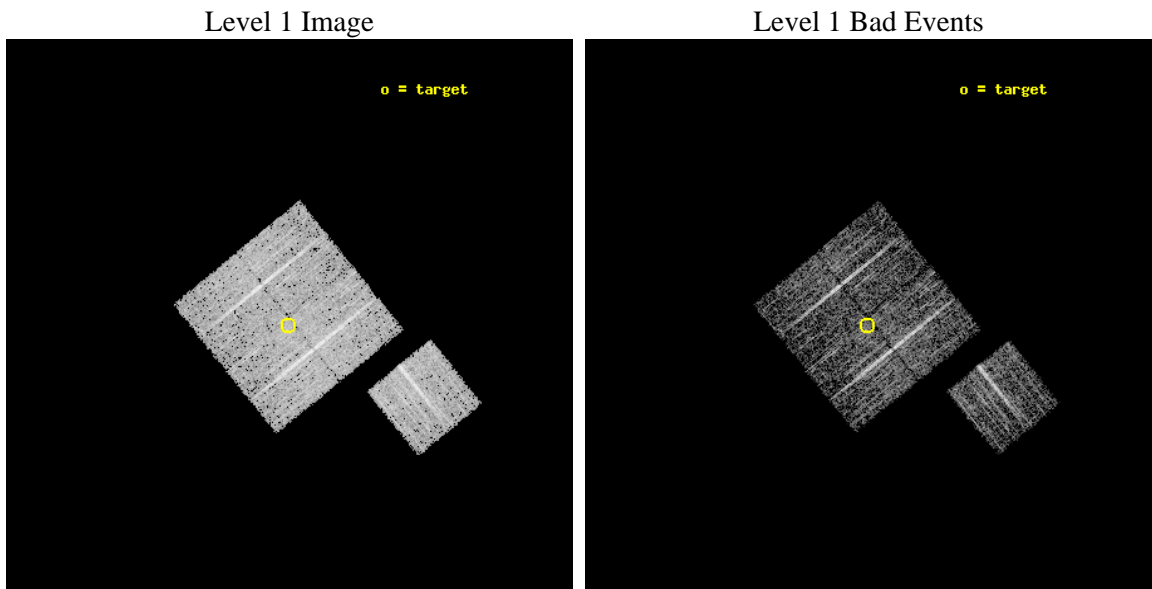
seq_num	900237	Sequence number
obs_id	3637	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F8	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.527246	Observer's specified target RA [deg]
dec_targ	34.679082	Observer's specified target Dec [deg]
ra_nom	216.52453576932	Nominal RA [deg]
dec_nom	34.683087358847	Nominal Dec [deg]
roll_nom	141.01024404692	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4777.0999907851	Sum of GTIs [s]
livetime	4714.6836625557	Livetime [s]
ontime0	4777.0276628733	Sum of GTIs [s]
ontime1	4777.0687028766	Sum of GTIs [s]
ontime2	4777.0999907851	Sum of GTIs [s]
ontime3	4777.0999907851	Sum of GTIs [s]
ontime6	4776.98662287	Sum of GTIs [s]
l2events	9260	Number of level 2 events



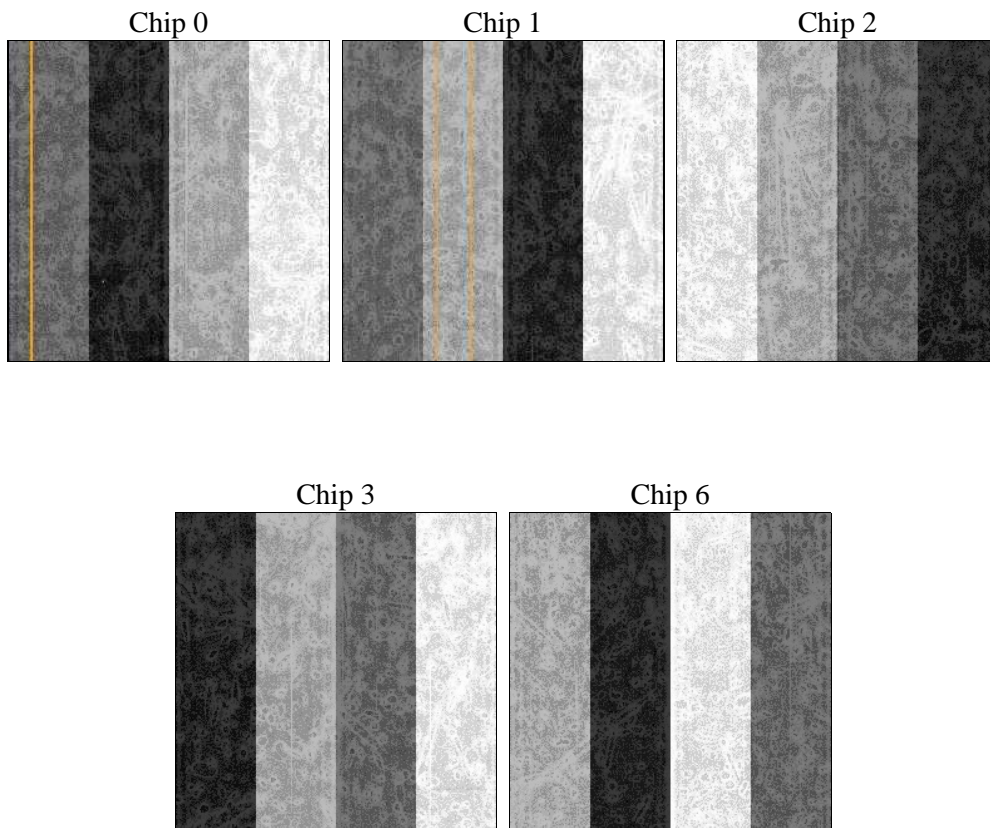
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4777.0999907851	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4777.0276628733	Sum of GTIs [s]
date	2012-10-24T20:56:25	Date and time of file creation	ontime1	4777.0687028766	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4777.0999907851	Sum of GTIs [s]
			ontime3	4777.0999907851	Sum of GTIs [s]
			ontime6	4776.98662287	Sum of GTIs [s]
			l1events	120099	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22621	21713	26043	25213	24509
rejected events	20356	19297	23713	23042	22257
rejected %	89%	88%	91%	91%	90%

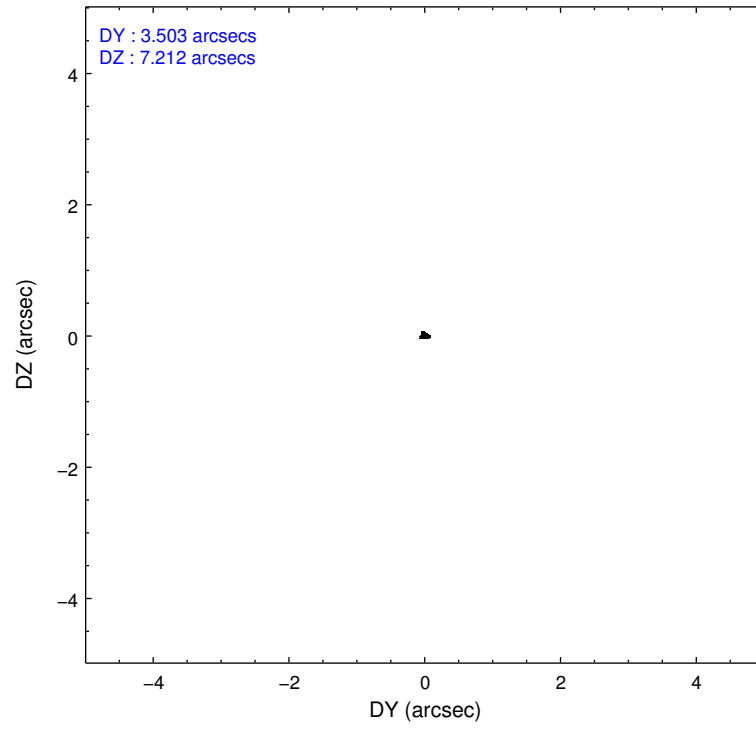
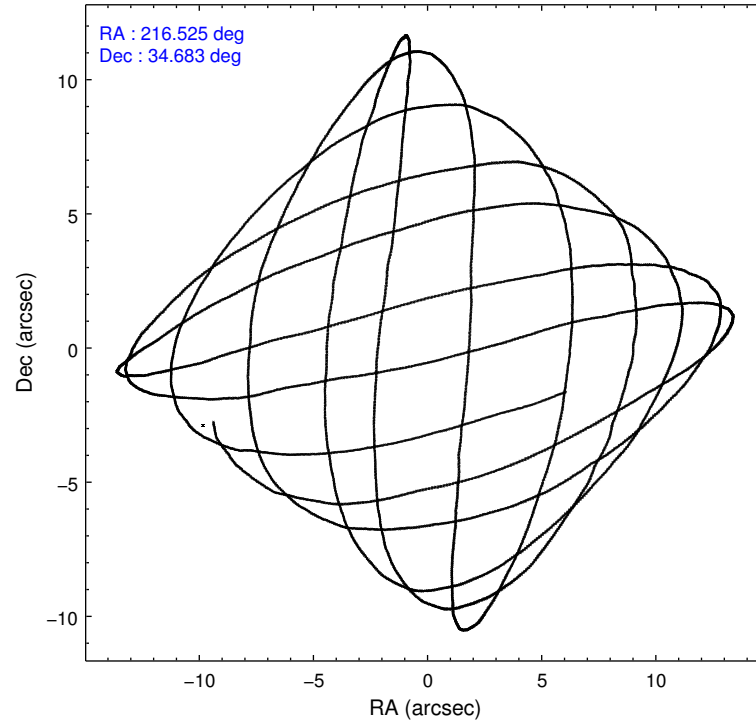
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	780	893	851	820	802
	3%	4%	3%	3%	3%
grade 1 events	10	8	8	14	9
	0%	0%	0%	0%	0%
grade 2 events	543	481	585	446	462
	2%	2%	2%	1%	1%
grade 3 events	295	267	266	261	274
	1%	1%	1%	1%	1%
grade 4 events	245	307	246	260	257
	1%	1%	0%	1%	1%
grade 5 events	723	773	635	790	775
	3%	3%	2%	3%	3%
grade 6 events	402	470	385	388	459
	1%	2%	1%	1%	1%
grade 7 events	19623	18514	23067	22234	21471
	86%	85%	88%	88%	87%

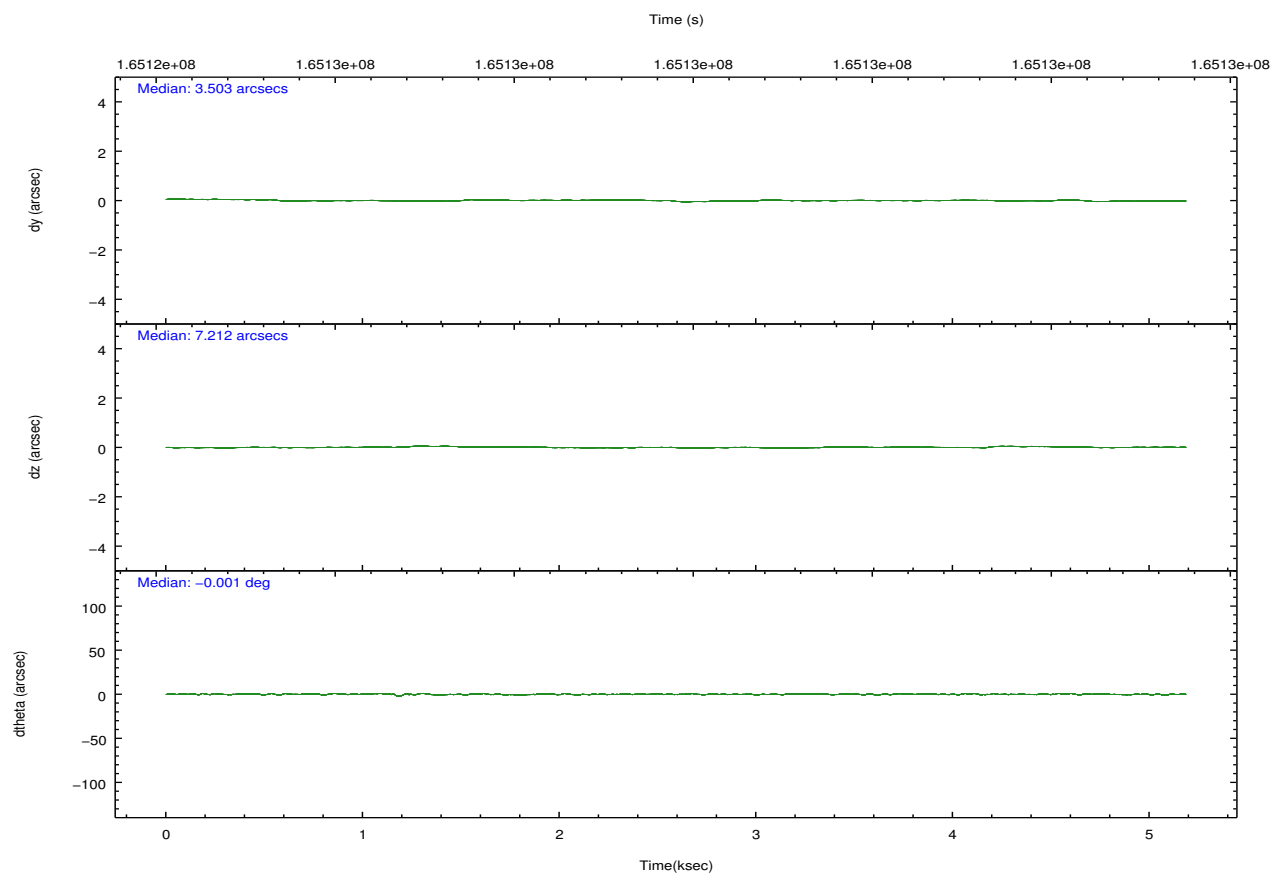
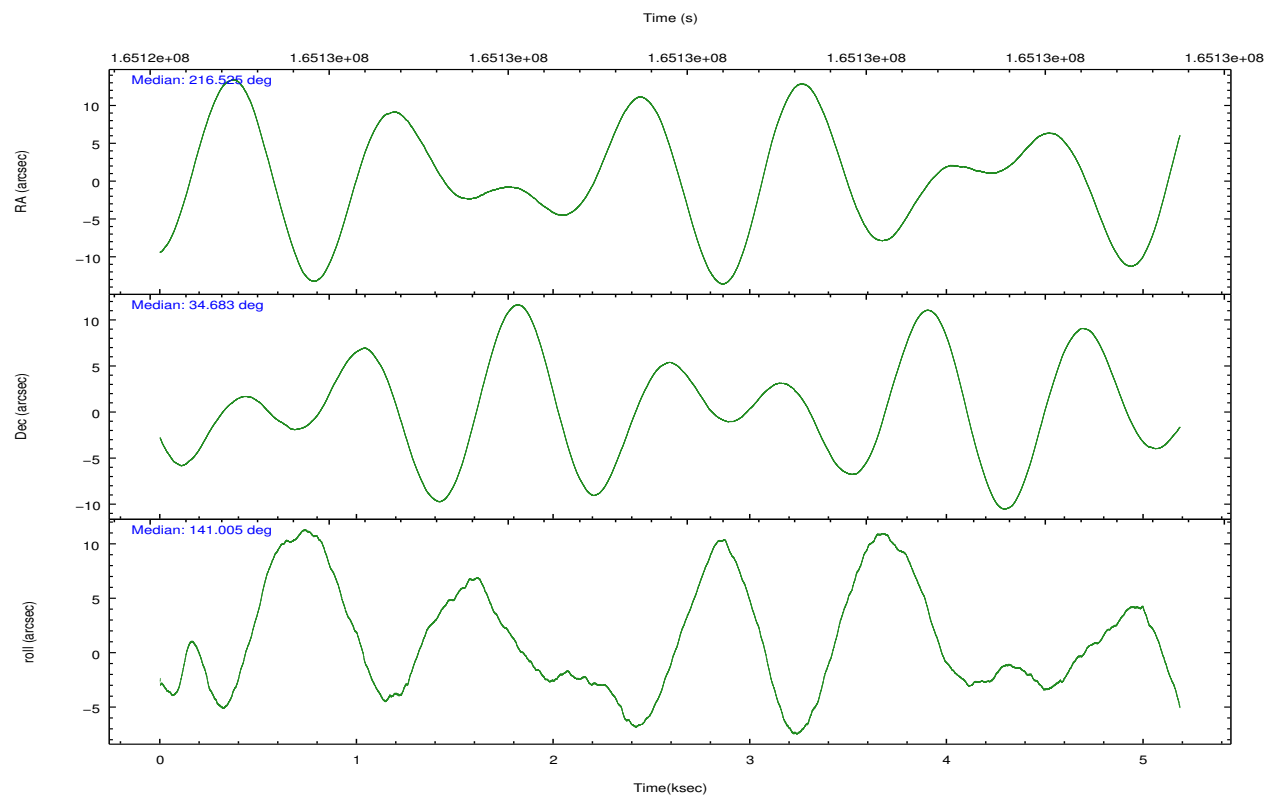


## 2.2 Compared Parameters

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	216.557509	216.5245357693248	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.679001	34.68308735884724	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782782	141.0102440469204	[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)	165125499.184000	165125124.01375			
Observation start date	2003-03-27T04:10:35	2003-03-27T04:05:24			
[s] Observation end time (MET)	165130499.184000	165130633.38898			
Observation end date	2003-03-27T05:33:55	2003-03-27T05:37:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect



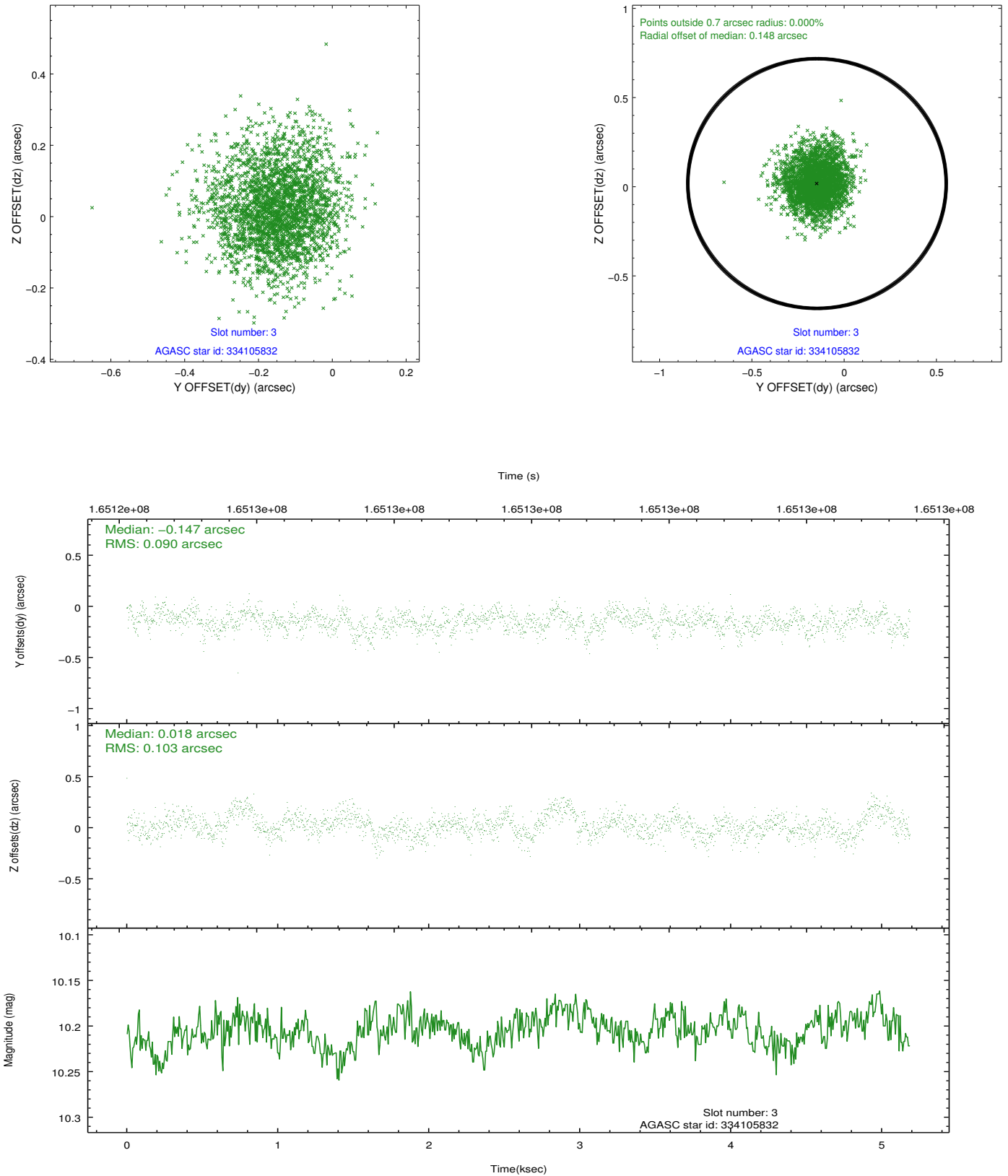


### Slot Statistics

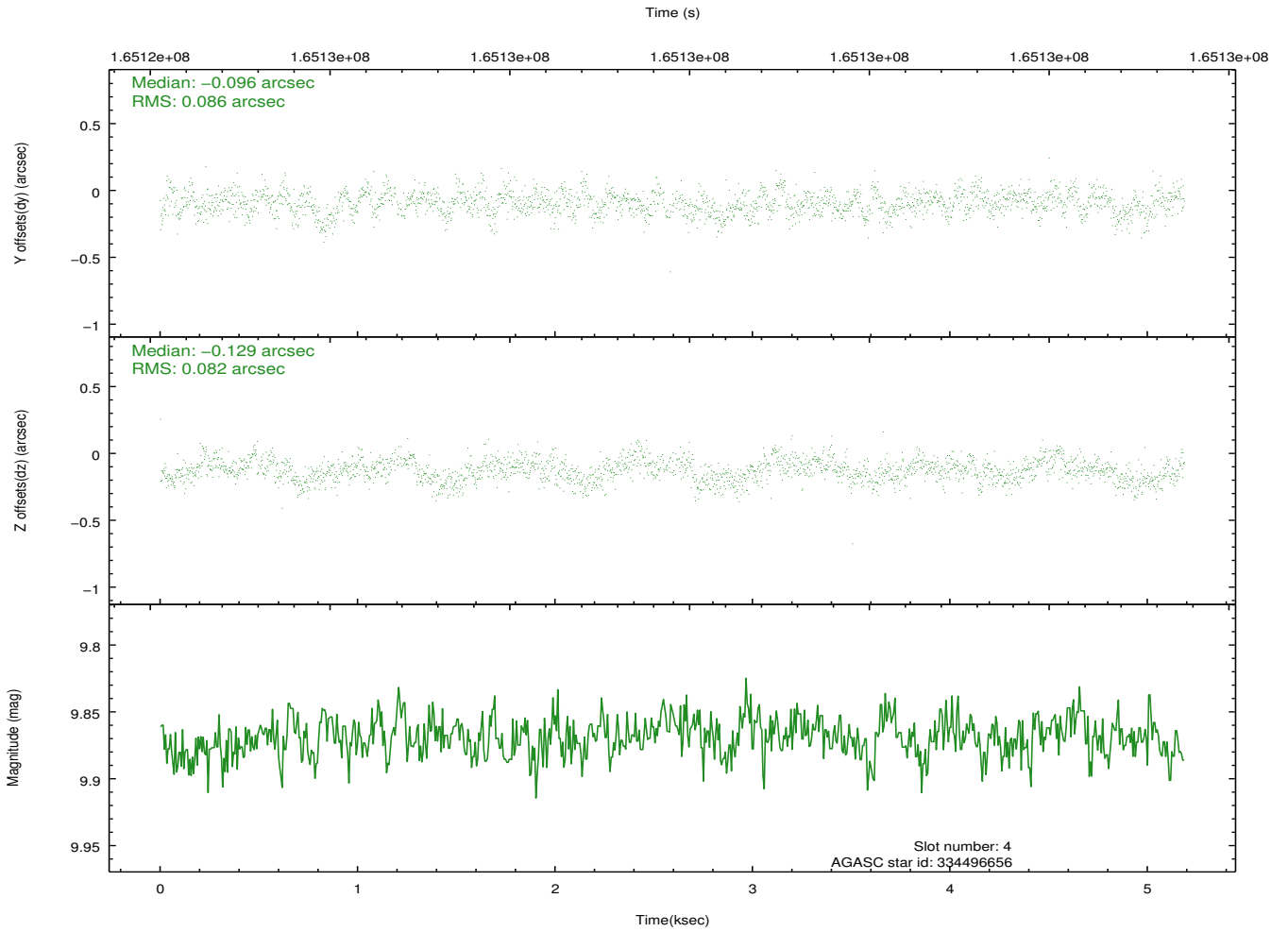
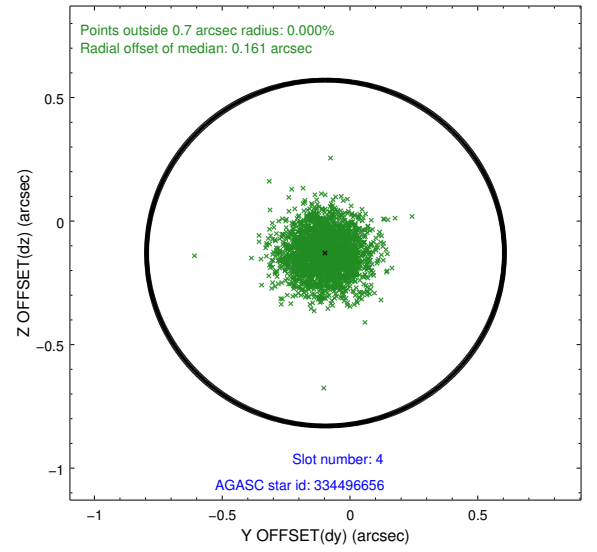
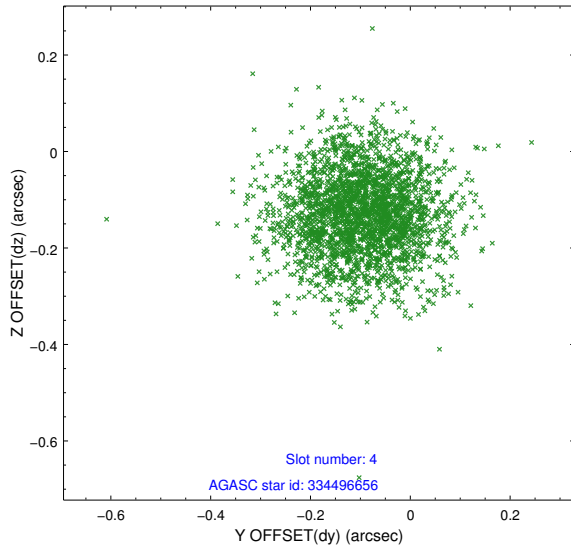
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.26	1265	0.022	0.014	0.006	0.010	0.000000	0.000000	936.28	-830.61
1	FID	ACIS-I-5	7.24	1265	-0.095	0.063	0.006	0.011	0.000000	0.000000	-1811.26	1066.39
2	FID	ACIS-I-6	7.26	1265	-0.018	-0.006	0.006	0.011	0.000000	0.000000	400.56	1712.11
3	GUIDE	334105832	10.20	2530	-0.147	0.018	0.146	0.236	215.847735	34.556918	1357.25	1665.40
4	GUIDE	334496656	9.87	2496	-0.096	-0.129	0.125	0.206	215.929218	35.031287	2241.19	184.59
5	GUIDE	335021128	9.36	2529	0.127	0.127	0.089	0.146	216.159551	34.422539	334.58	1460.90
6	GUIDE	335028336	9.47	2530	0.057	-0.024	0.102	0.154	217.189840	34.665629	-1476.65	-1150.65
7	GUIDE	335030384	8.84	2529	0.062	0.005	0.072	0.114	216.806407	34.722197	-471.80	-587.34

## 2.4 Star Slots

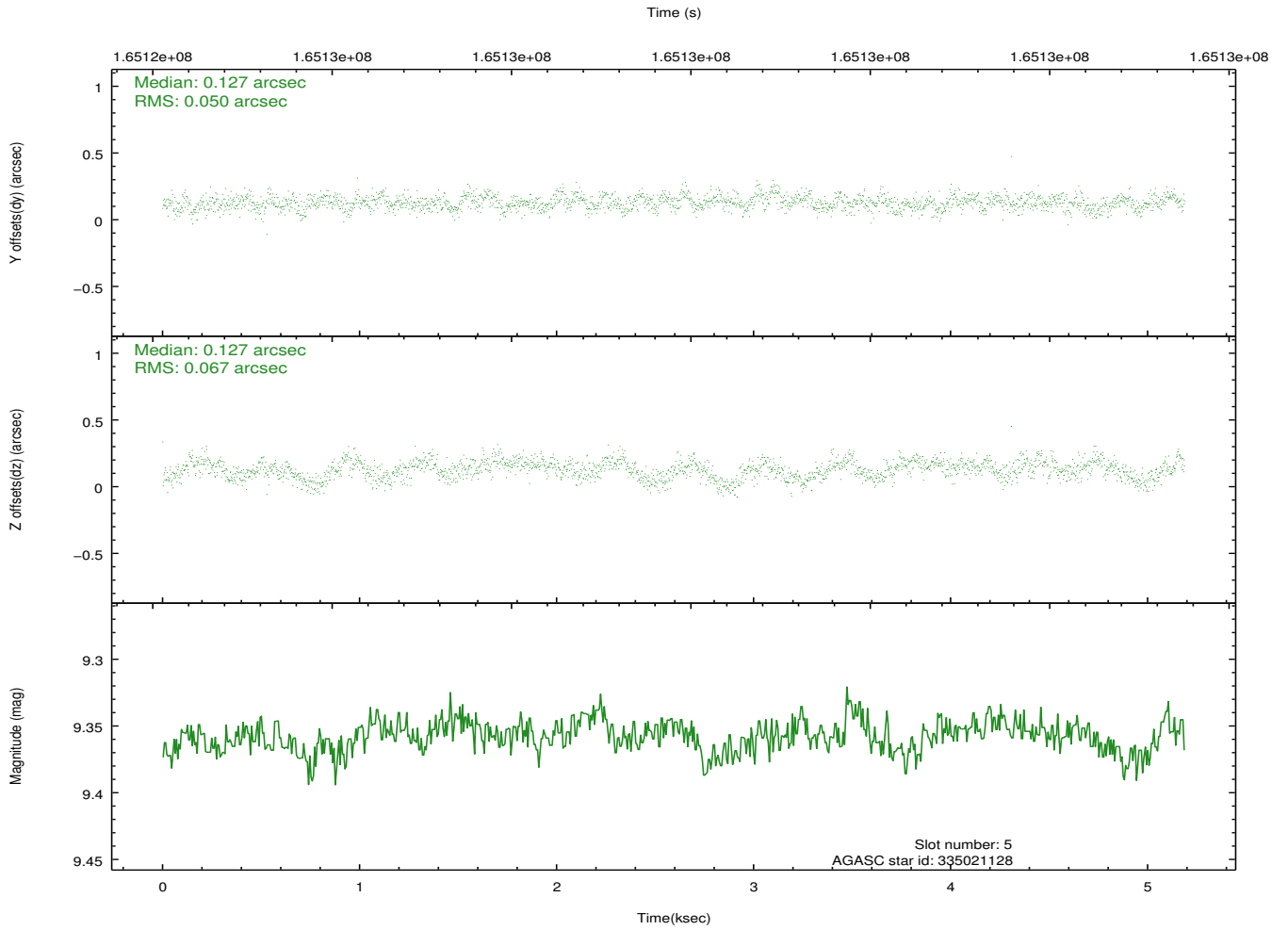
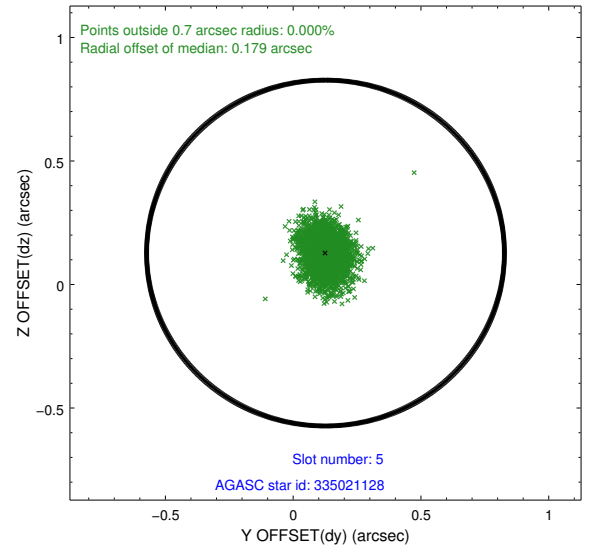
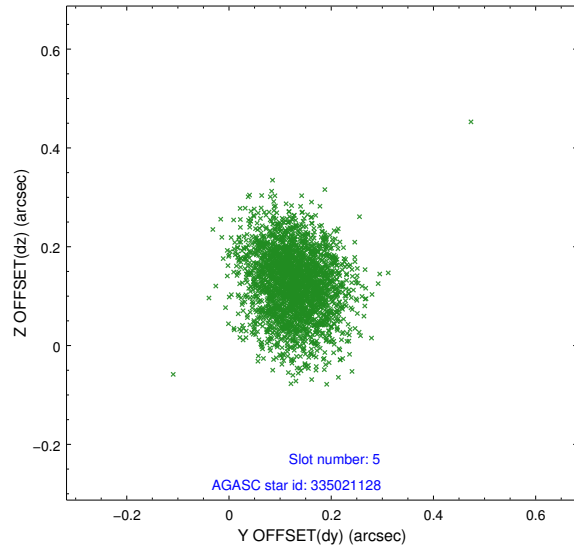
### 2.4.1 Slot 3



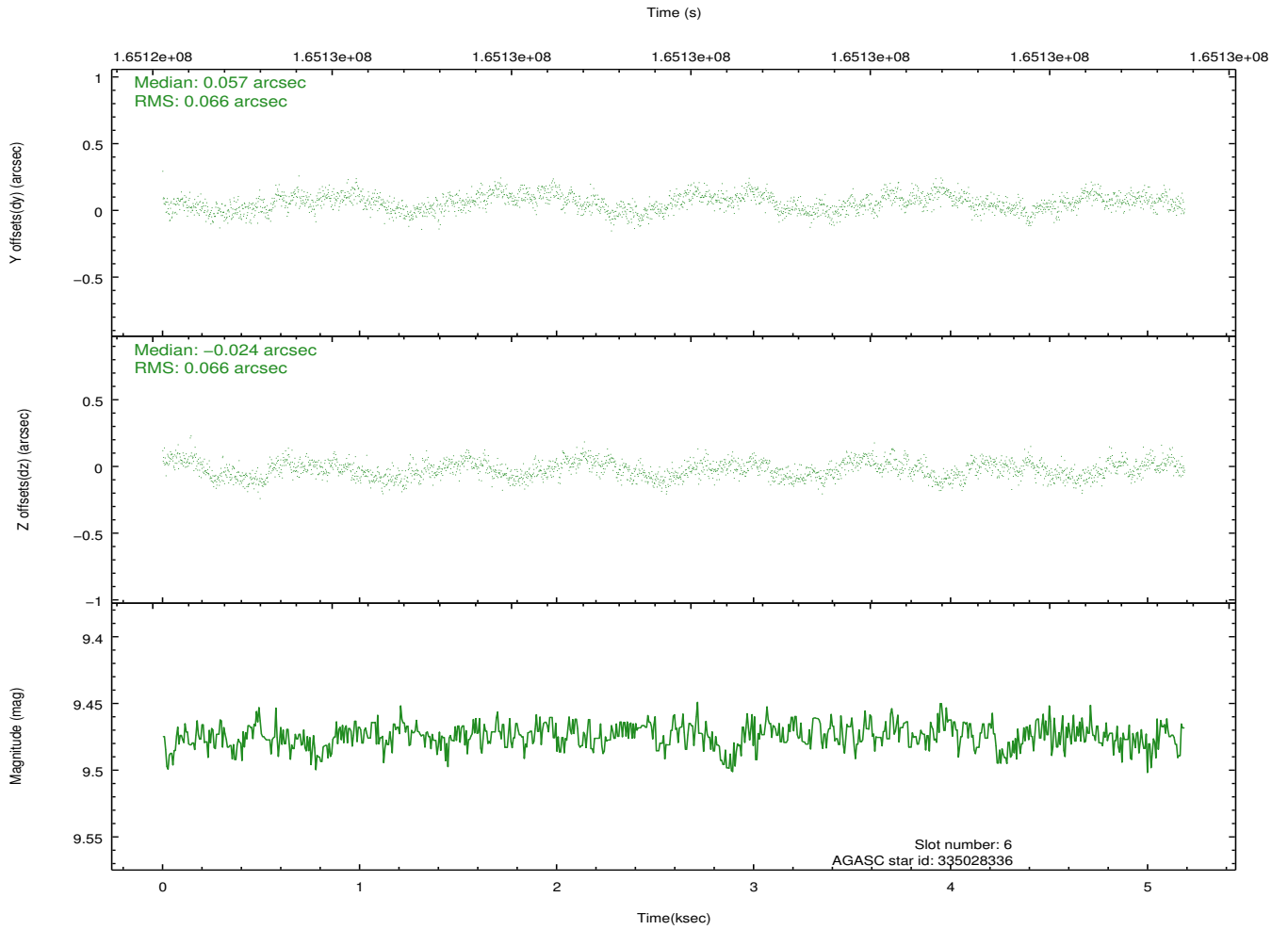
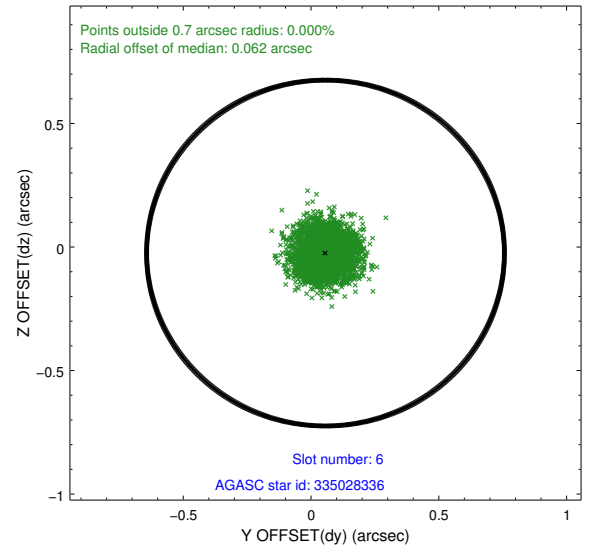
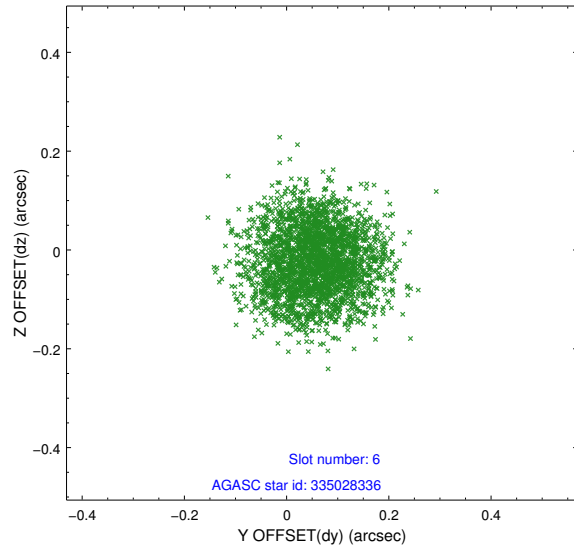
## 2.4.2 Slot 4



### 2.4.3 Slot 5

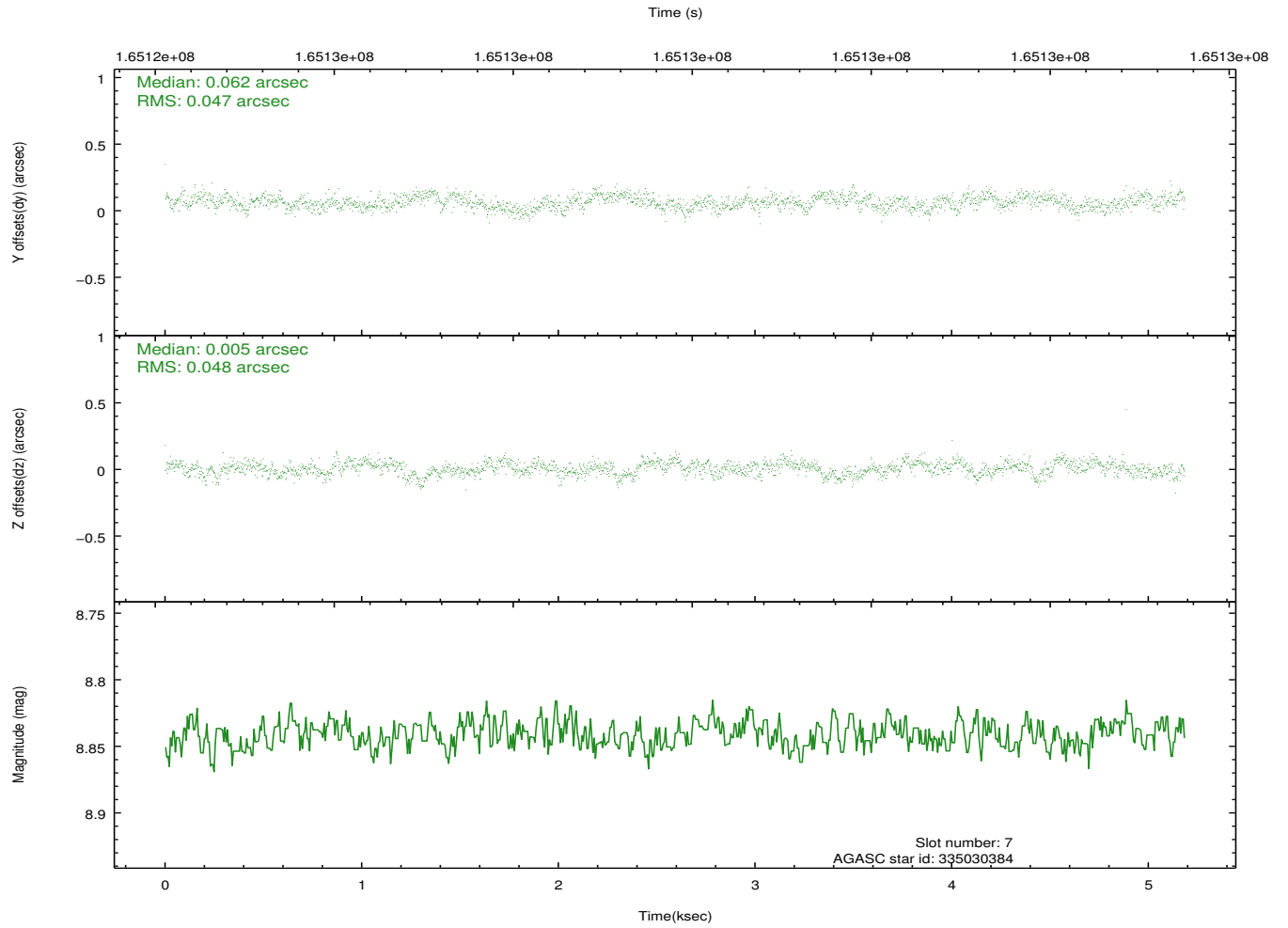
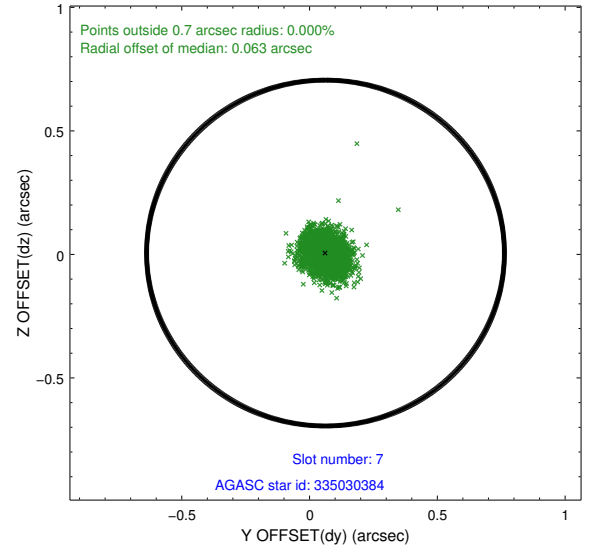
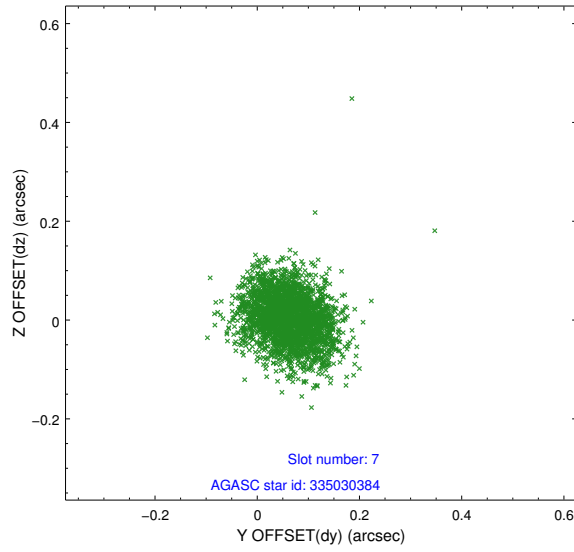


## 2.4.4 Slot 6



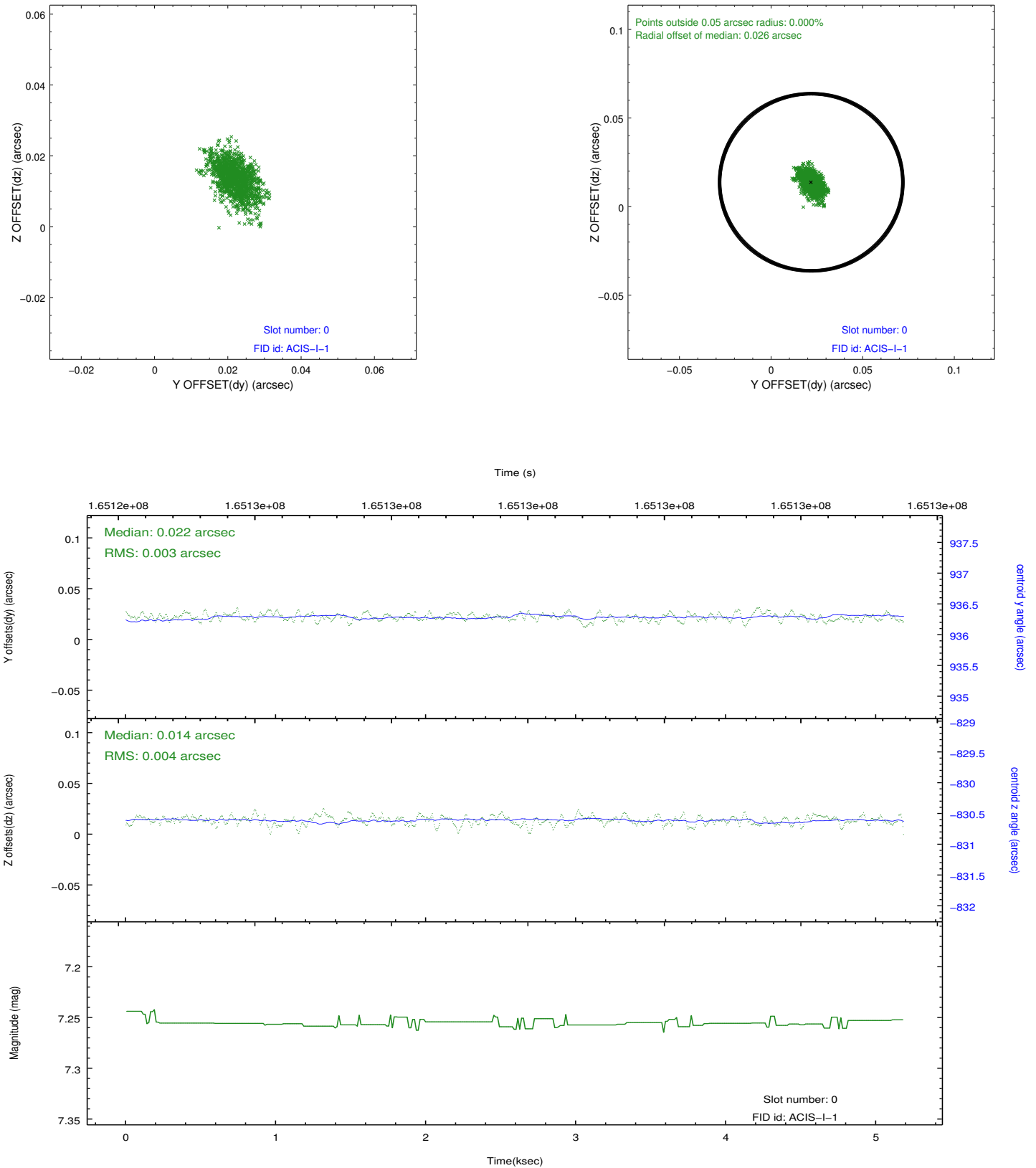


## 2.4.5 Slot 7

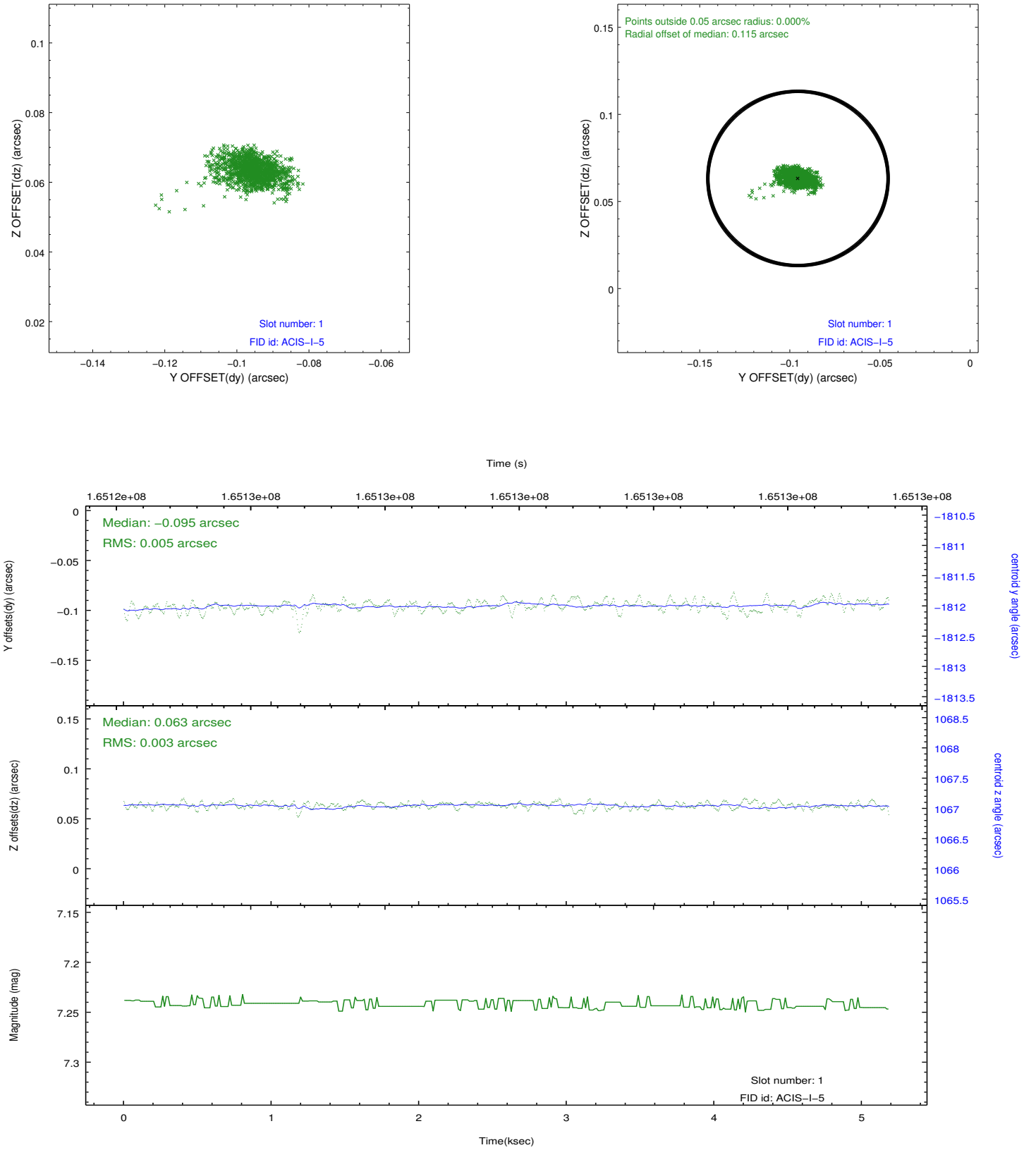


## 2.5 FID Slots

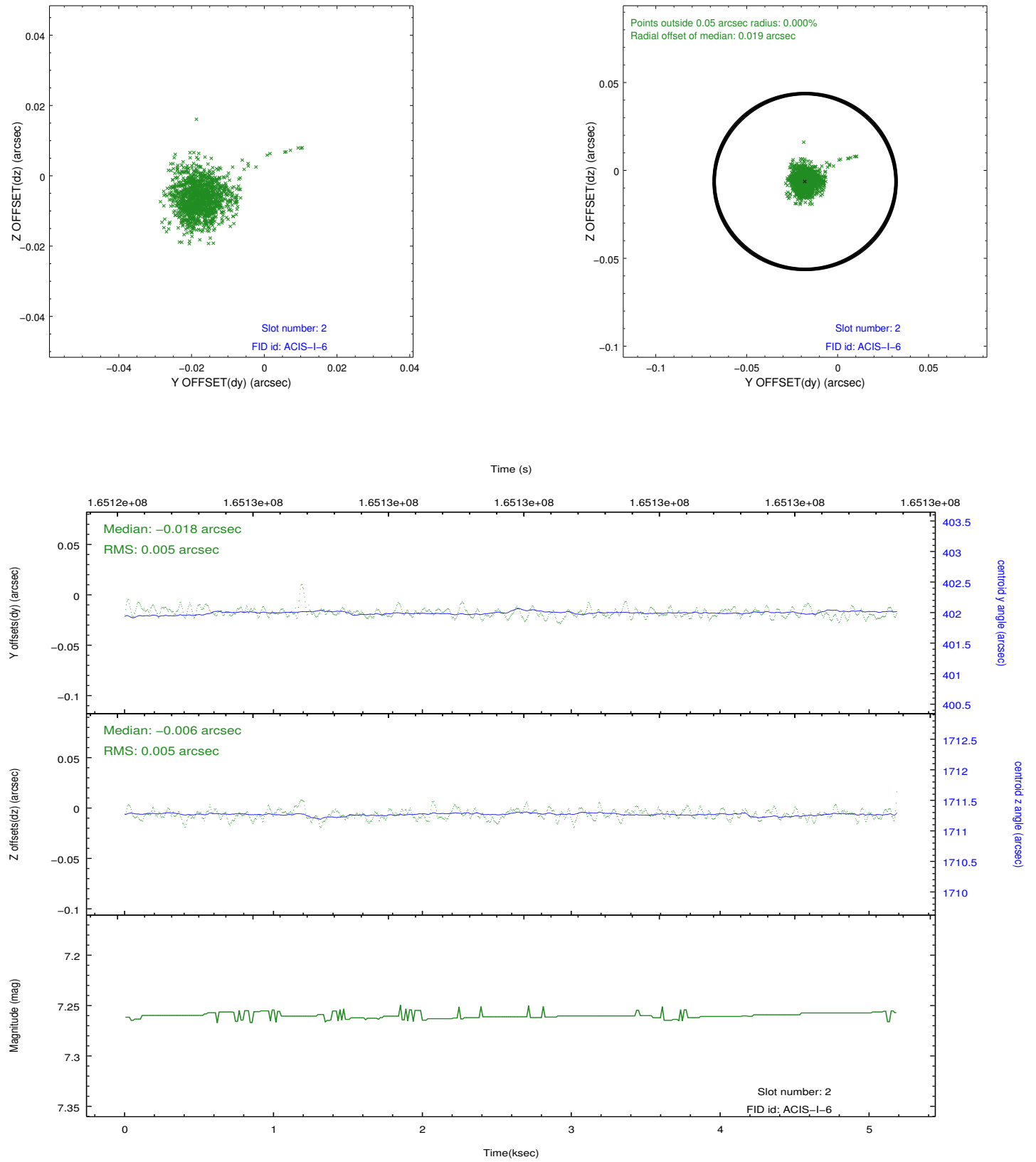
### 2.5.1 Slot 0



## 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)	2012.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.78

### A.2 Comments