

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3629 - L2 Version 3  
Chandra X-Ray Center

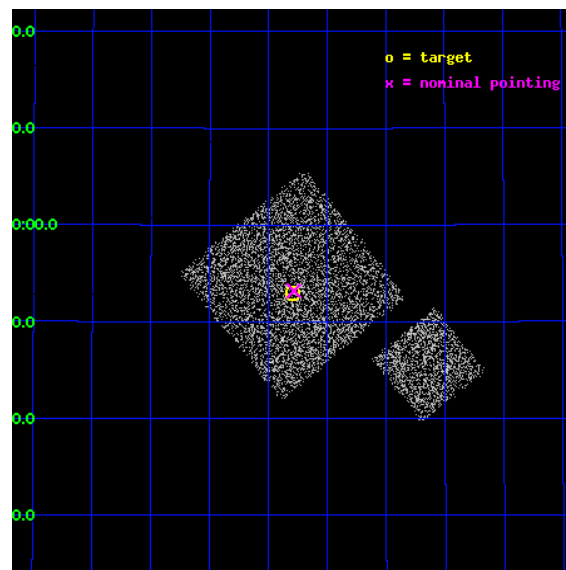
L2 Processing Date : Oct 26 2012

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# 1 Front

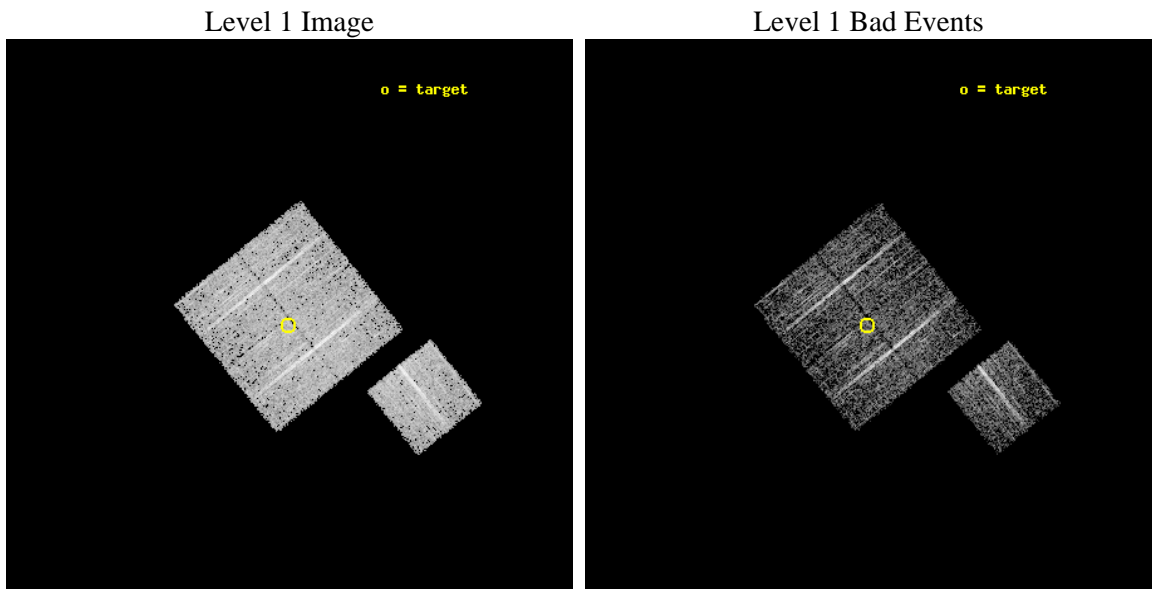
seq_num	900229	Sequence number
obs_id	3629	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F50	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	219.323765	Observer's specified target RA [deg]
dec_targ	34.882776	Observer's specified target Dec [deg]
ra_nom	219.32109764516	Nominal RA [deg]
dec_nom	34.886798011002	Nominal Dec [deg]
roll_nom	141.01022448188	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4674.1229640841	Sum of GTIs [s]
livetime	4613.0521065191	Livetime [s]
ontime0	4673.9998639822	Sum of GTIs [s]
ontime1	4674.0409039855	Sum of GTIs [s]
ontime2	4674.0819439888	Sum of GTIs [s]
ontime3	4674.1229640841	Sum of GTIs [s]
ontime6	4673.9588040709	Sum of GTIs [s]
l2events	9300	Number of level 2 events



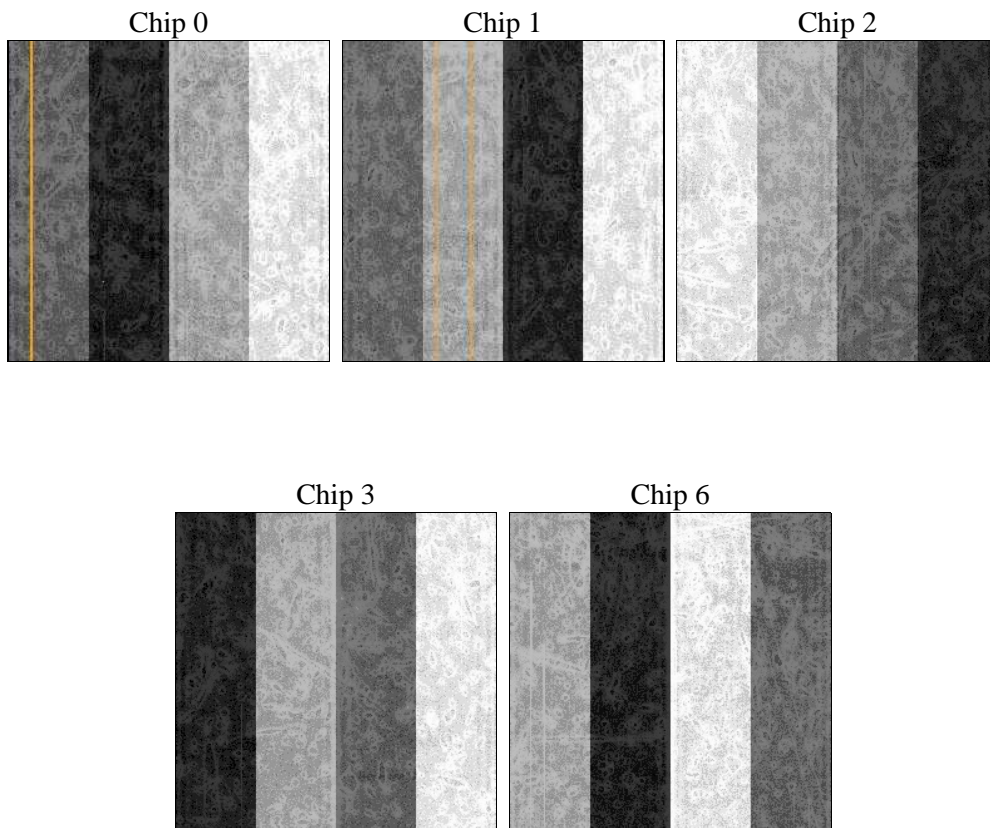
## 2 OBI

### 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	4674.1229640841	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4673.9998639822	Sum of GTIs [s]
date	2012-10-26T00:14:41	Date and time of file creation	ontime1	4674.0409039855	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4674.0819439888	Sum of GTIs [s]
			ontime3	4674.1229640841	Sum of GTIs [s]
			ontime6	4673.9588040709	Sum of GTIs [s]
			l1events	113352	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21940	21687	23002	22911	23812
rejected events	19688	19332	20719	20764	21385
rejected %	89%	89%	90%	90%	89%

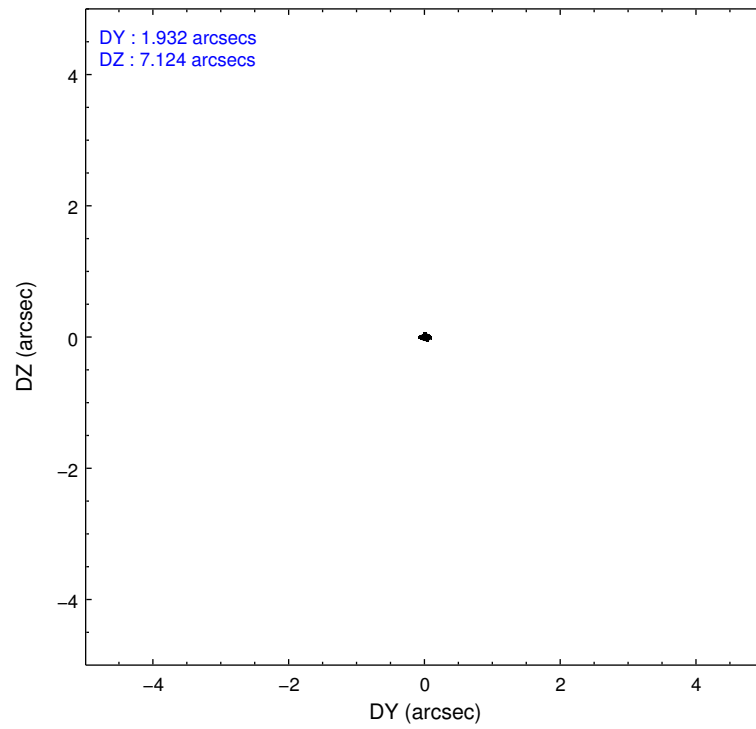
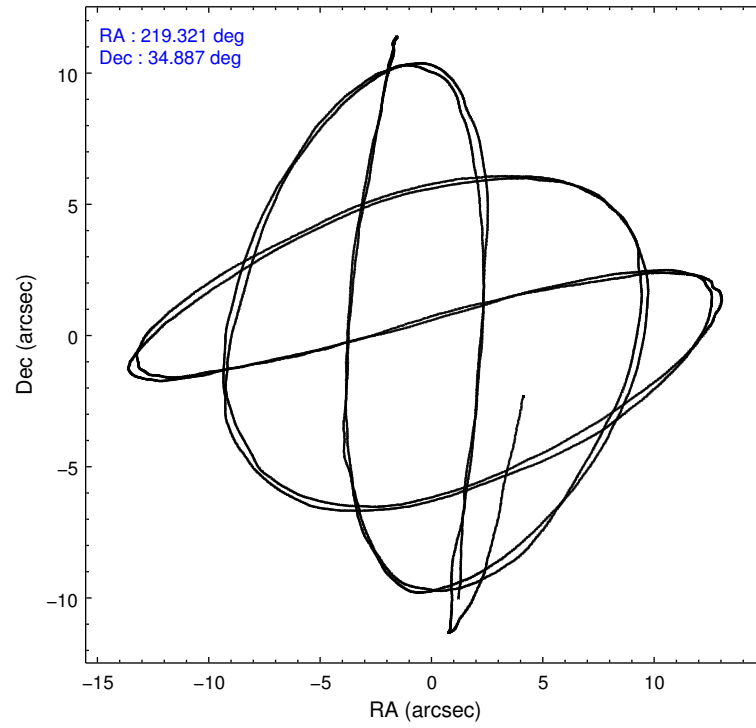
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	771	826	908	747	901
	3%	3%	3%	3%	3%
grade 1 events	15	10	9	16	10
	0%	0%	0%	0%	0%
grade 2 events	508	518	505	449	493
	2%	2%	2%	1%	2%
grade 3 events	300	269	253	281	297
	1%	1%	1%	1%	1%
grade 4 events	254	303	265	272	258
	1%	1%	1%	1%	1%
grade 5 events	644	722	599	752	778
	2%	3%	2%	3%	3%
grade 6 events	422	444	356	400	479
	1%	2%	1%	1%	2%
grade 7 events	19026	18595	20107	19994	20596
	86%	85%	87%	87%	86%

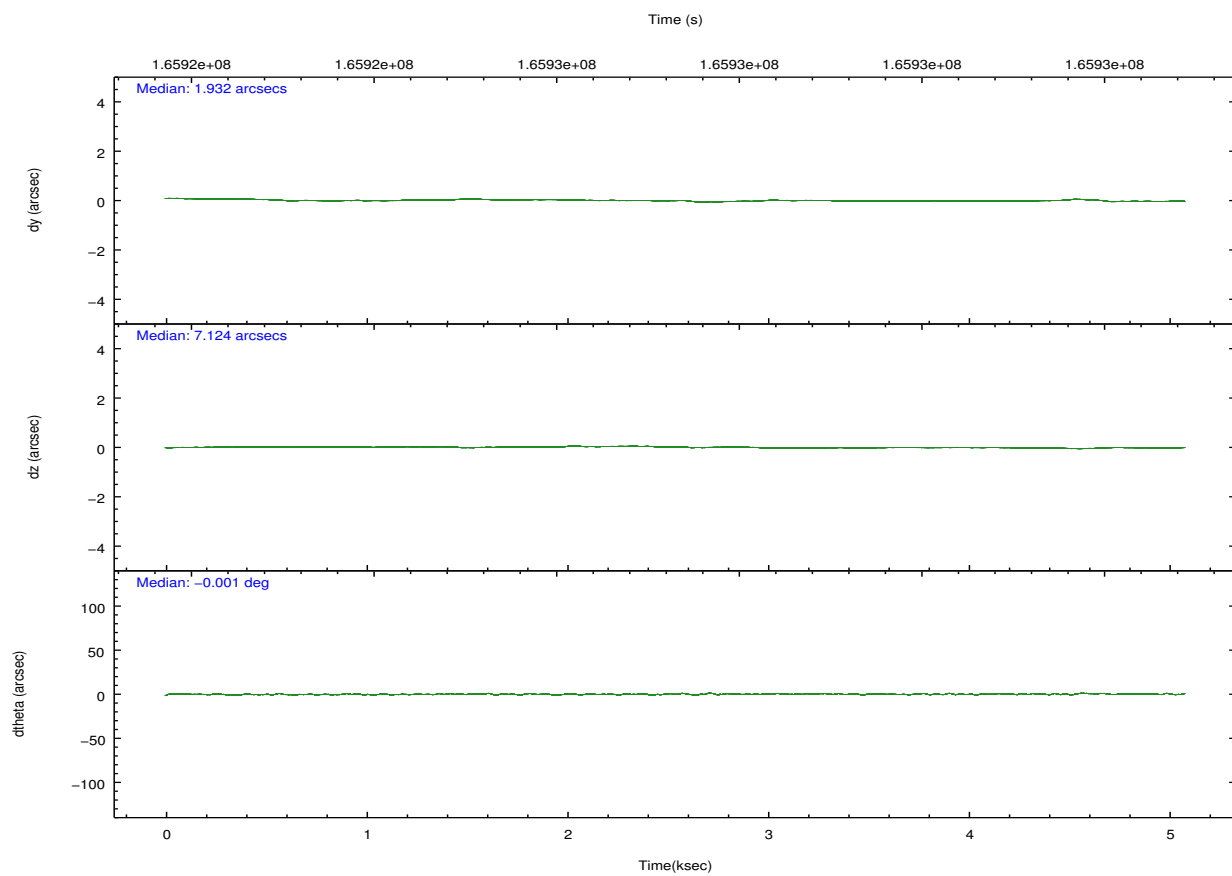
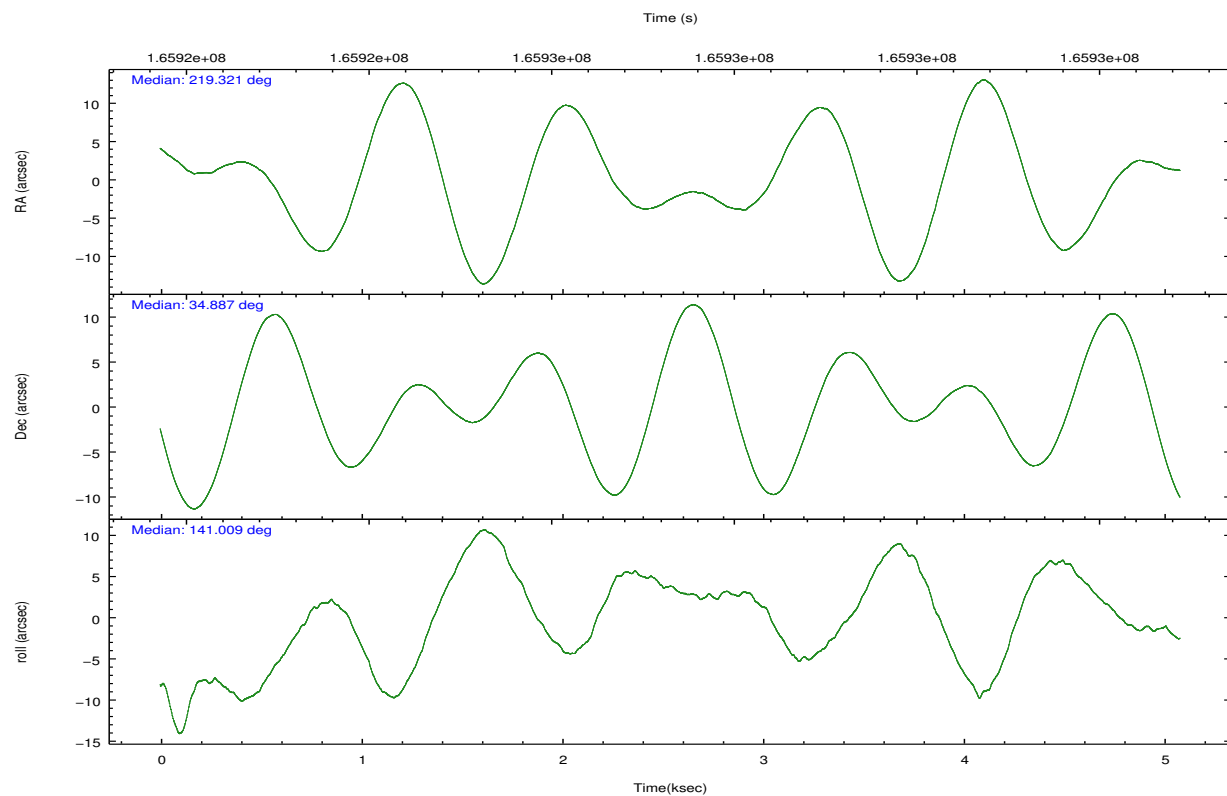


## 2.2 Compared Parameters

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	219.354103	219.3210976451626	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.882698	34.88679801100178	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782648	141.0102244818753	[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)	165924287.184000	165923910.64744			
Observation start date	2003-04-05T10:03:43	2003-04-05T09:58:30			
[s] Observation end time (MET)	165929187.184000	165929320.59767			
Observation end date	2003-04-05T11:25:23	2003-04-05T11:28:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



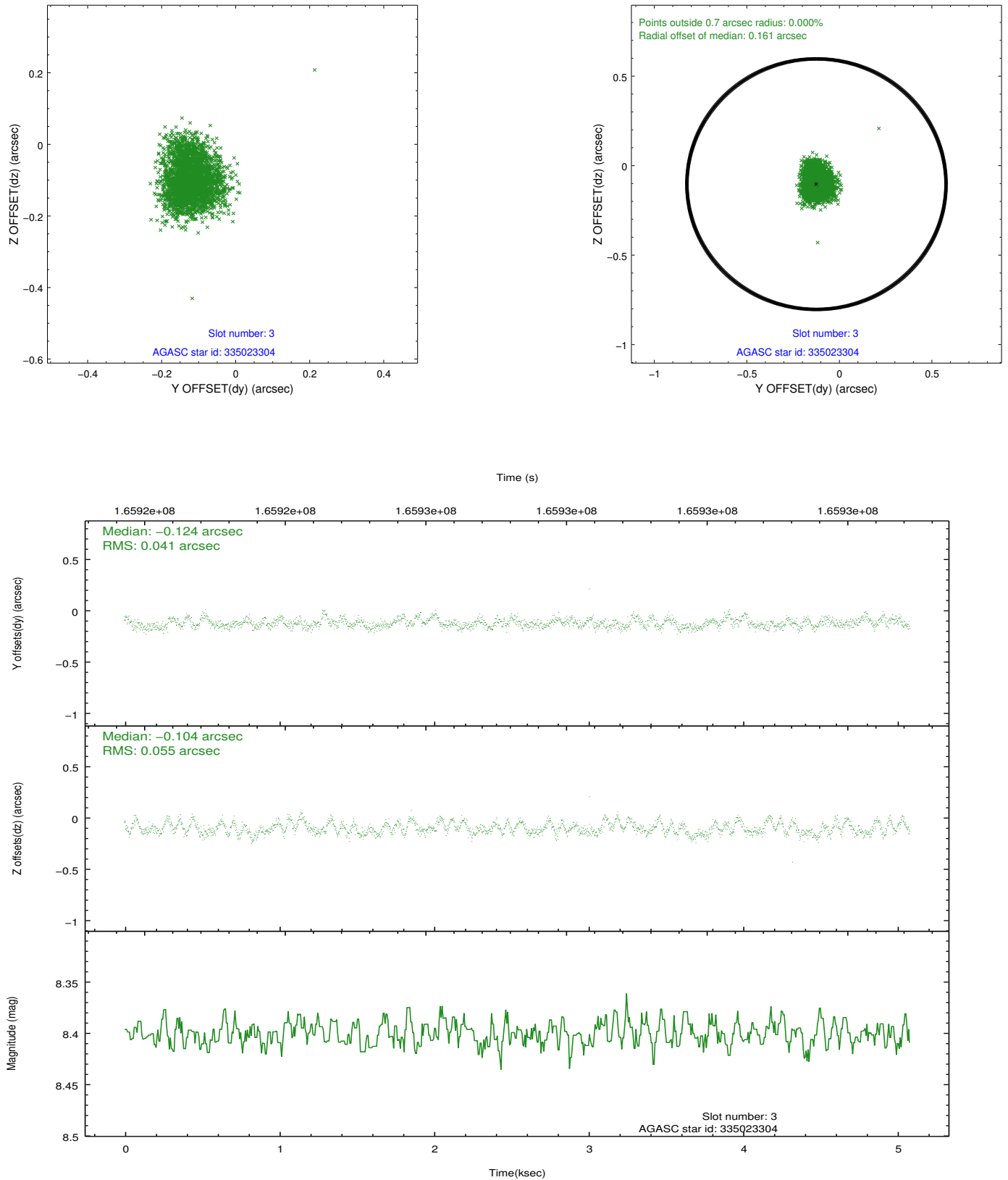


### Slot Statistics

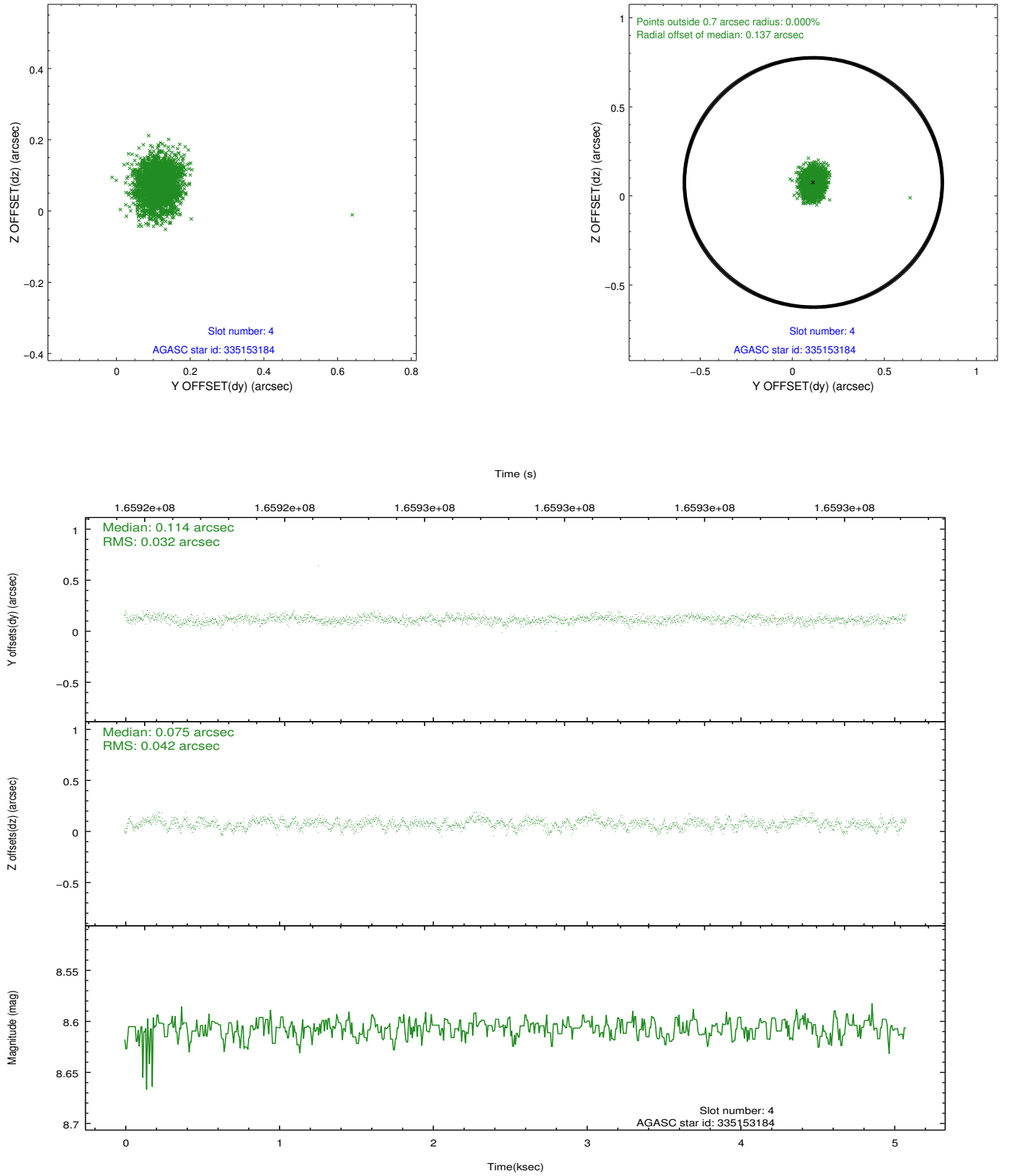
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1240	0.006	0.015	0.006	0.011	0.000000	0.000000	937.87	-830.53
1	FID	ACIS-I-5	7.23	1240	-0.072	0.052	0.006	0.011	0.000000	0.000000	-1809.60	1066.47
2	FID	ACIS-I-6	7.26	1239	-0.025	0.004	0.007	0.011	0.000000	0.000000	402.15	1712.23
3	GUIDE	335023304	8.40	2480	-0.124	-0.104	0.074	0.115	218.883608	34.686545	634.79	1425.05
4	GUIDE	335153184	8.61	2480	0.114	0.075	0.055	0.091	220.141256	34.877917	-1805.53	-1463.01
5	GUIDE	335153312	9.31	2479	0.083	-0.028	0.076	0.125	220.353946	34.889761	-2262.23	-1898.24
6	GUIDE	335414336	8.96	2477	-0.078	-0.131	0.061	0.099	218.979022	35.090910	1330.53	115.33
7	GUIDE	335545712	9.87	2479	0.003	0.184	0.107	0.174	220.165930	35.199137	-1123.05	-2399.89

## 2.4 Star Slots

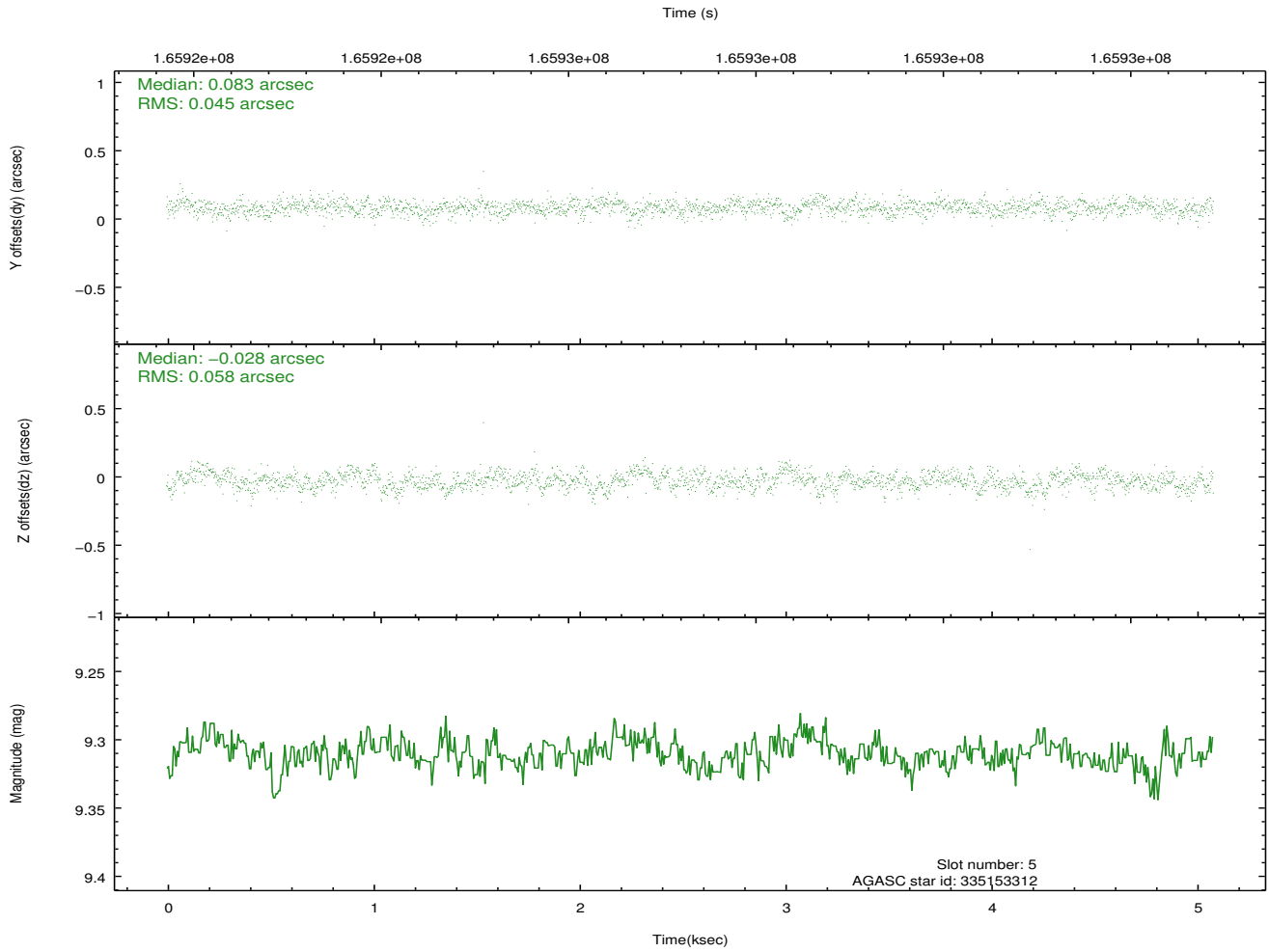
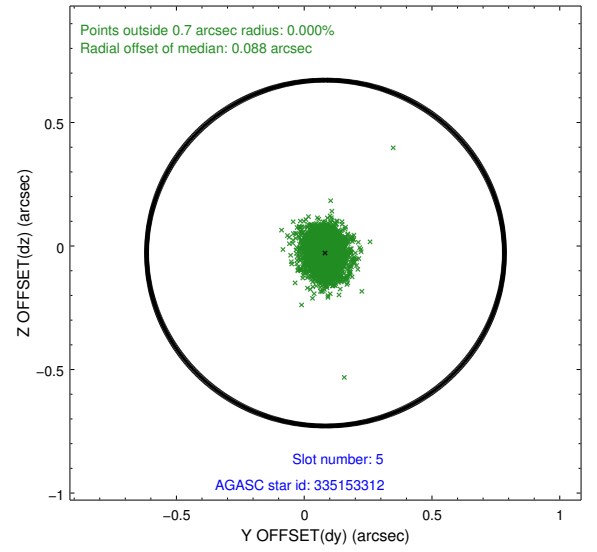
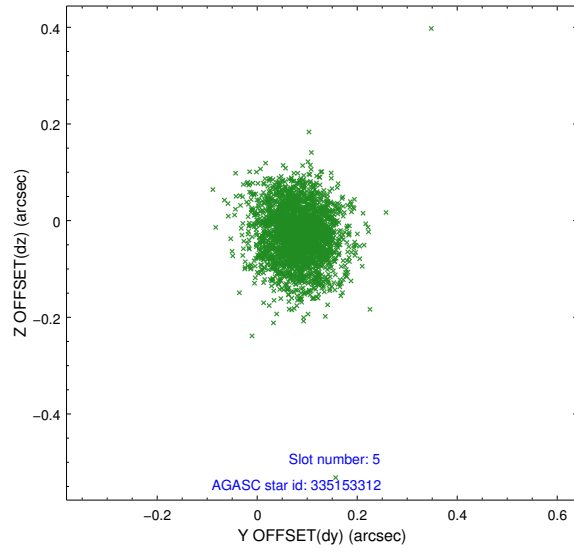
### 2.4.1 Slot 3



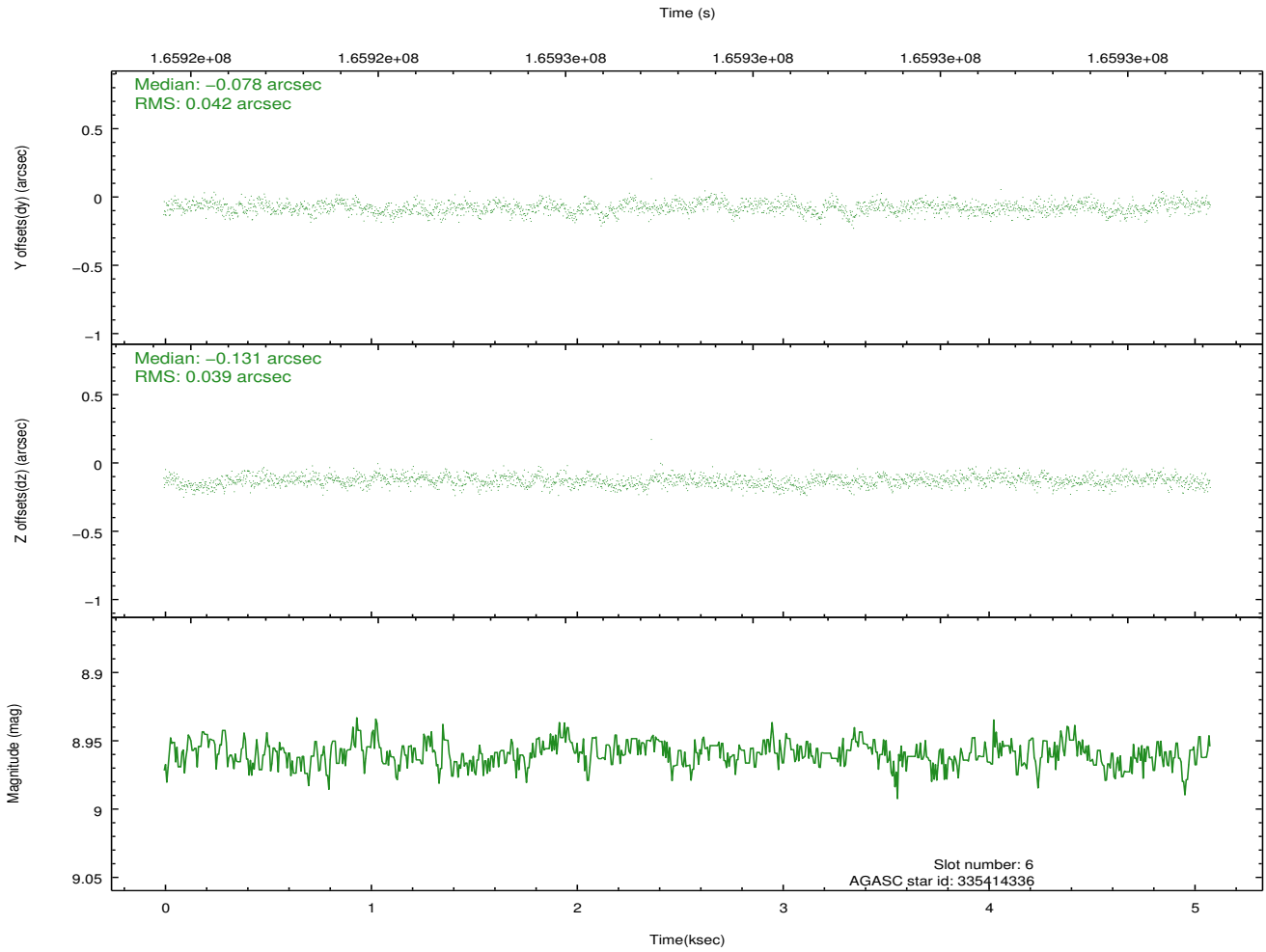
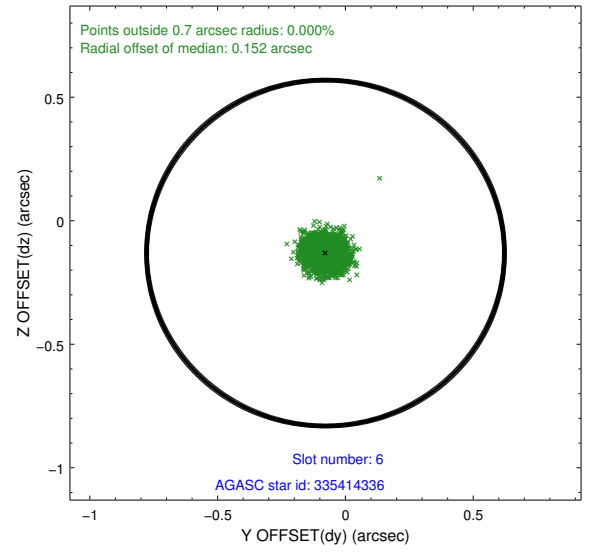
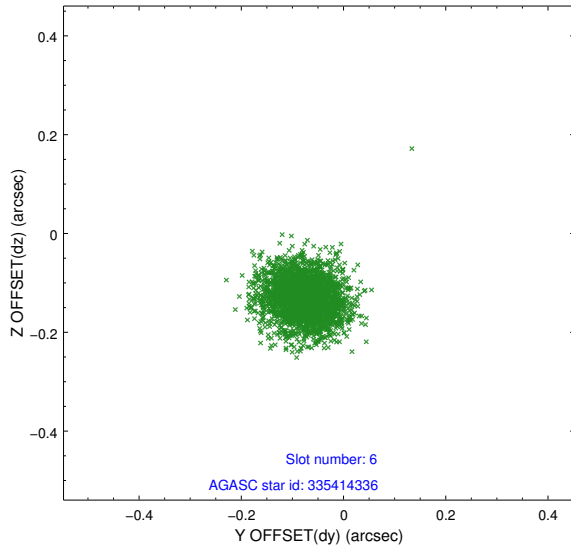
## 2.4.2 Slot 4



### 2.4.3 Slot 5

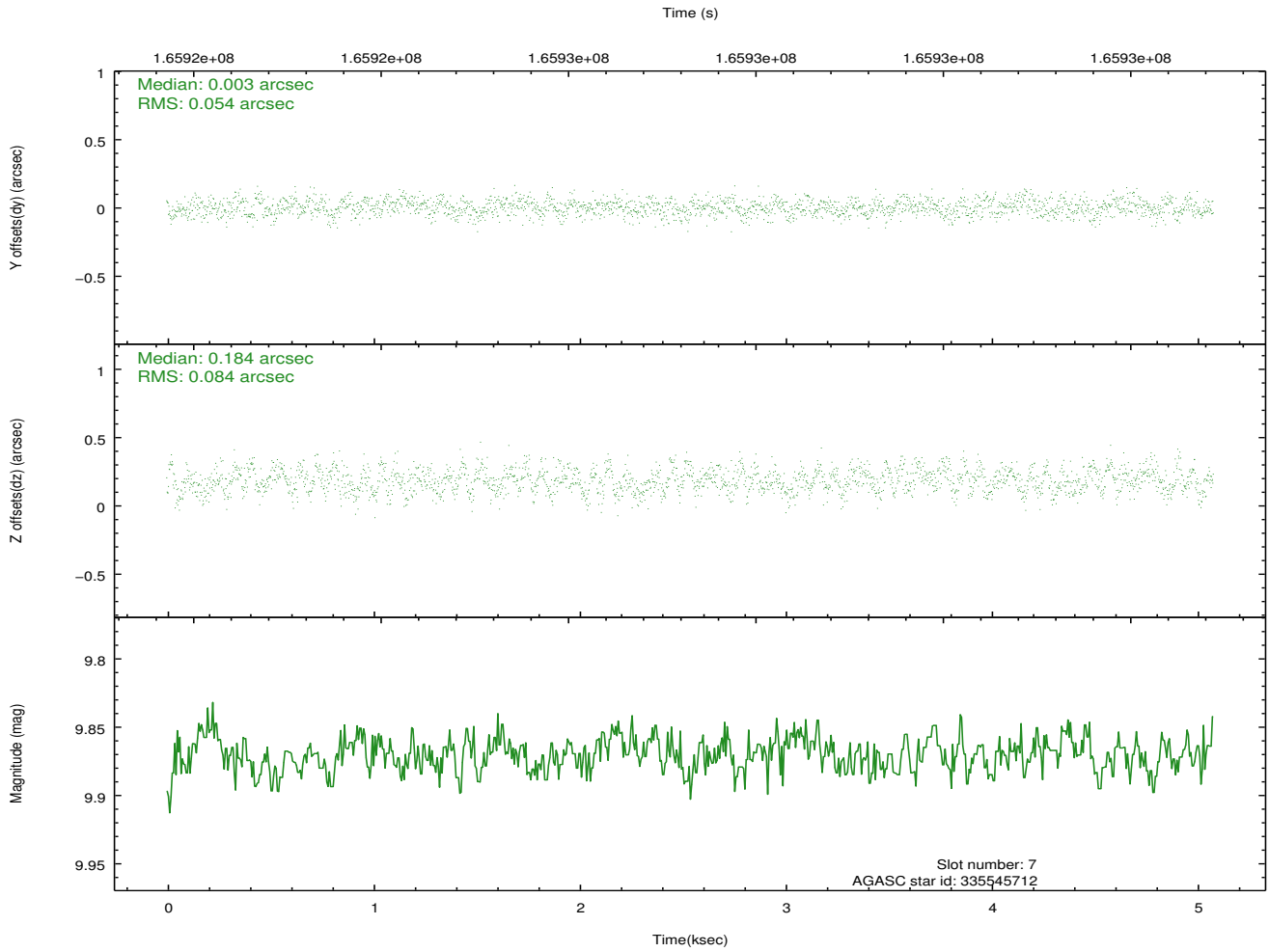
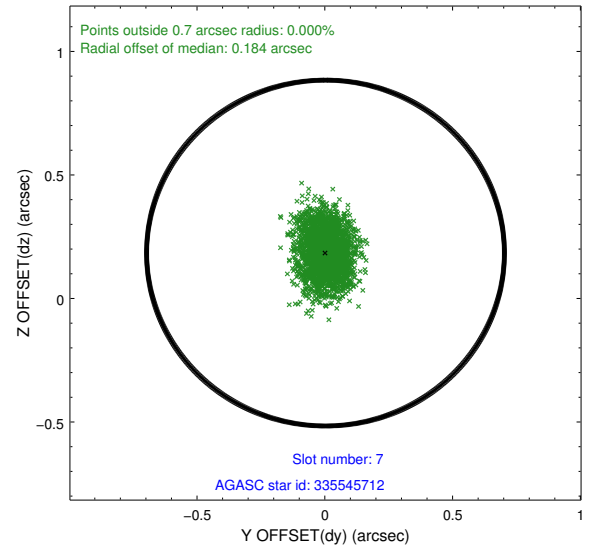
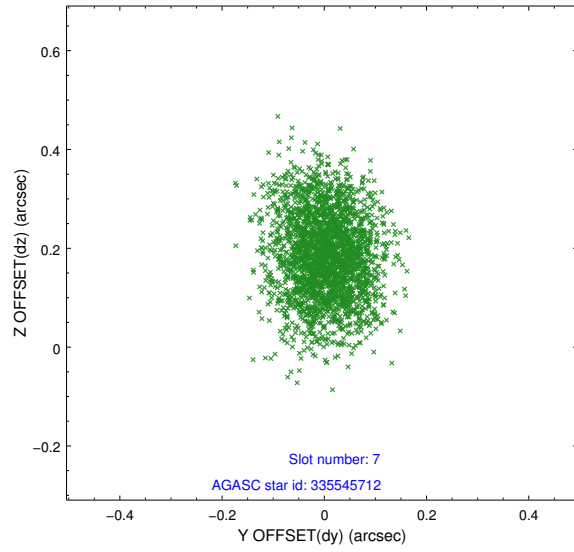


## 2.4.4 Slot 6



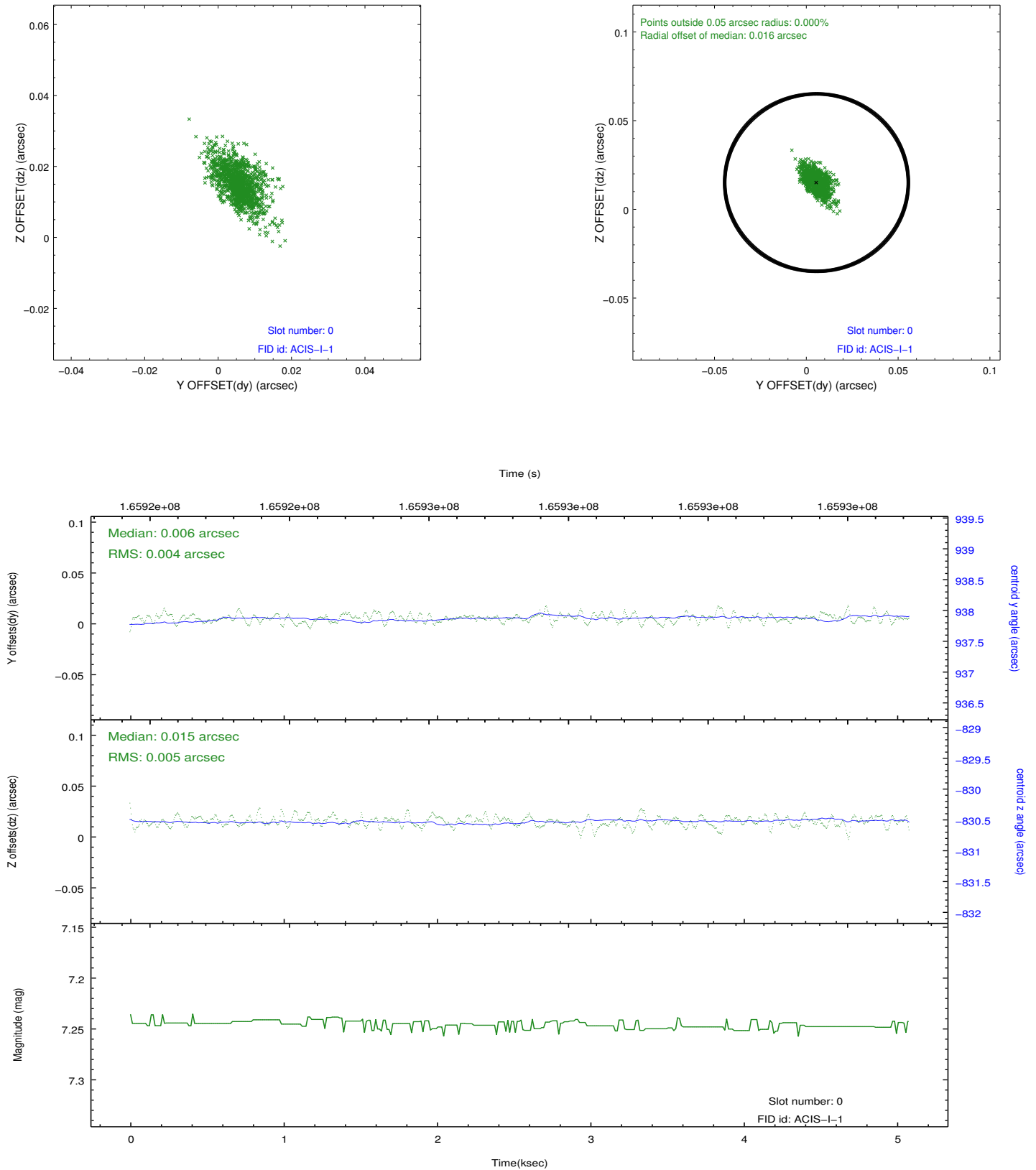


## 2.4.5 Slot 7

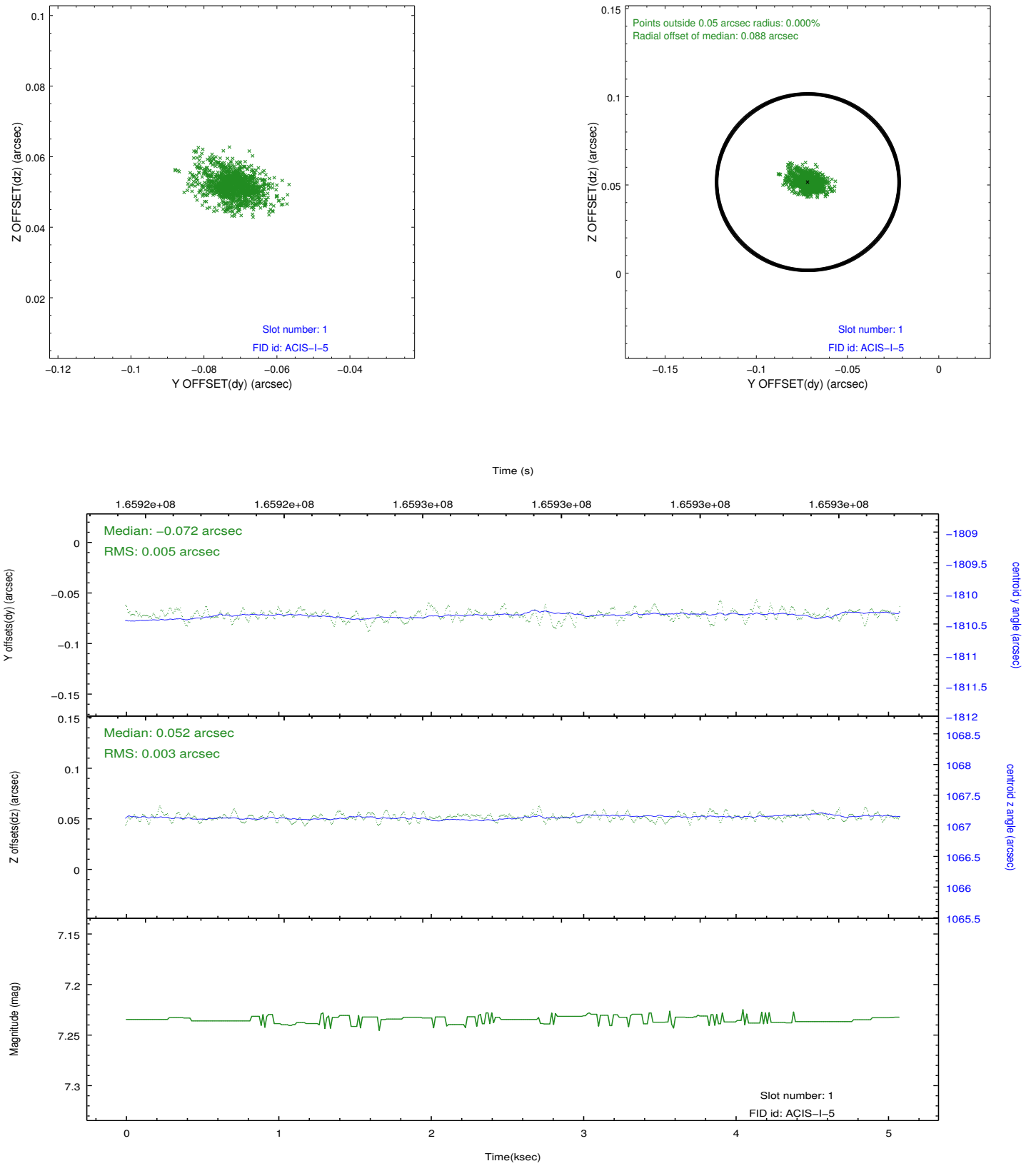


## 2.5 FID Slots

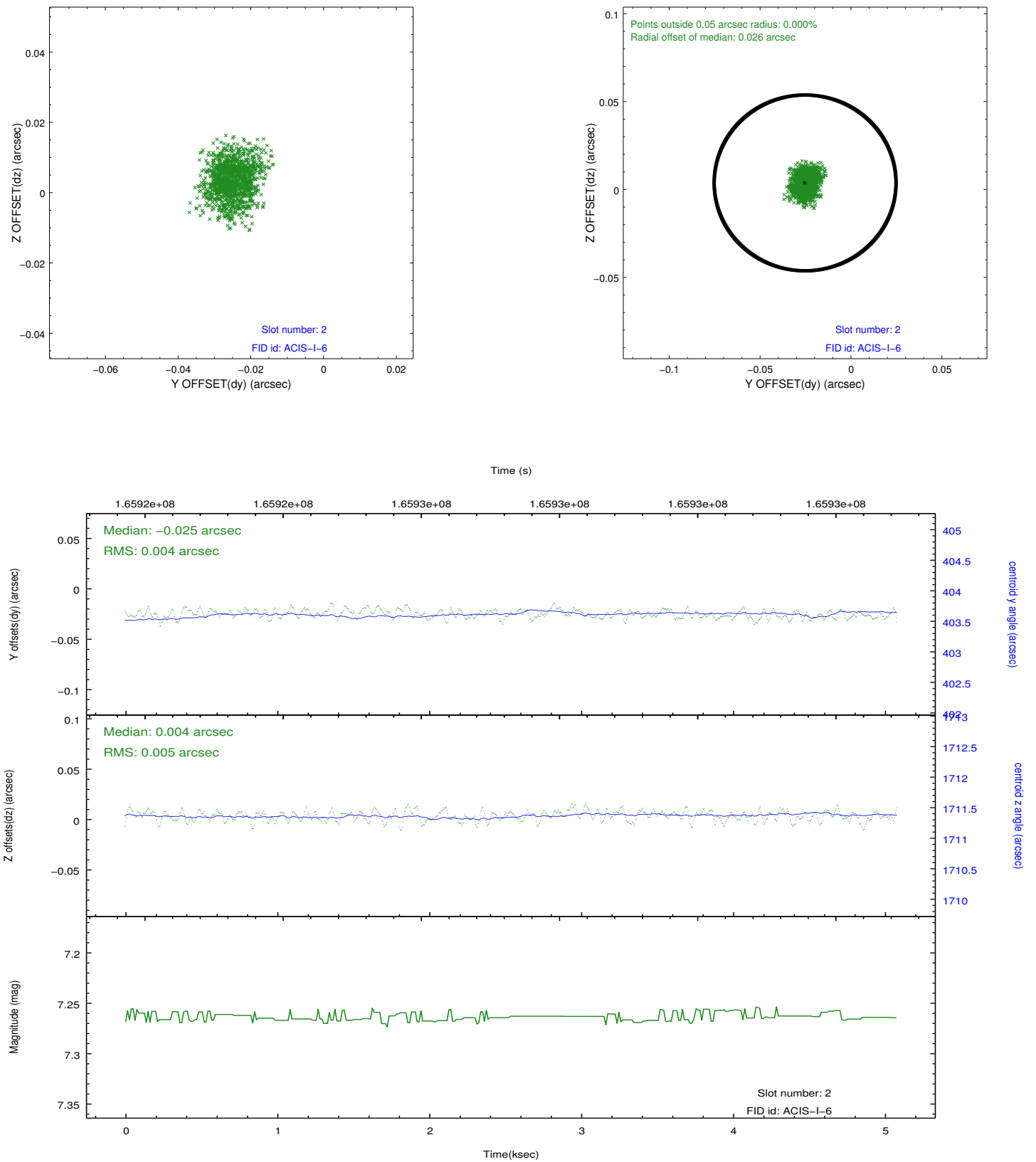
### 2.5.1 Slot 0



## 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)	2012.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.674

### **A.2 Comments**