

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3645 - L2 Version 3  
Chandra X-Ray Center

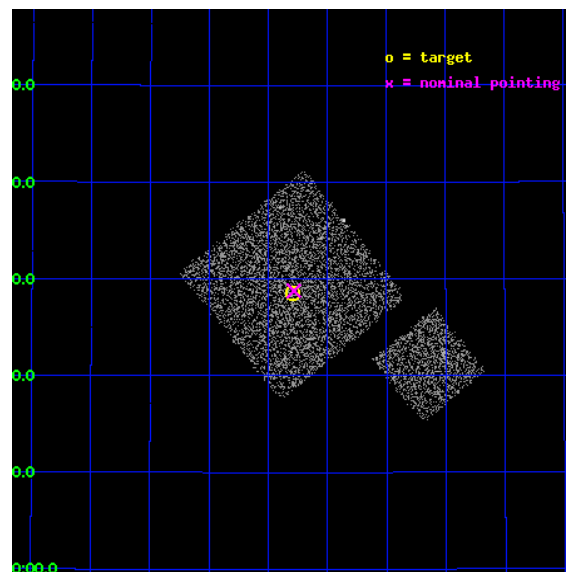
L2 Processing Date : Oct 25 2012

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# 1 Front

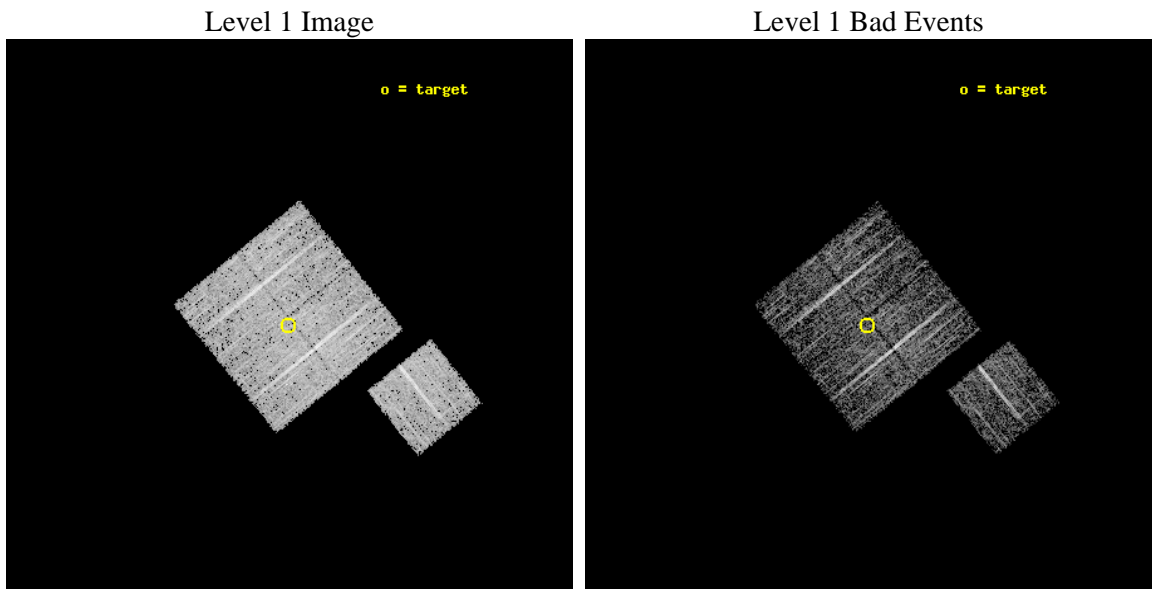
seq_num	900245	Sequence number
obs_id	3645	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F31	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	219.323765	Observer's specified target RA [deg]
dec_targ	34.475388	Observer's specified target Dec [deg]
ra_nom	219.32105451102	Nominal RA [deg]
dec_nom	34.47945564809	Nominal Dec [deg]
roll_nom	141.01021920331	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4671.6999909878	Sum of GTIs [s]
livetime	4610.66079135	Livetime [s]
ontime0	4671.6999909878	Sum of GTIs [s]
ontime1	4671.6999909878	Sum of GTIs [s]
ontime2	4671.6999909878	Sum of GTIs [s]
ontime3	4671.6999909878	Sum of GTIs [s]
ontime6	4671.6999909878	Sum of GTIs [s]
l2events	9569	Number of level 2 events



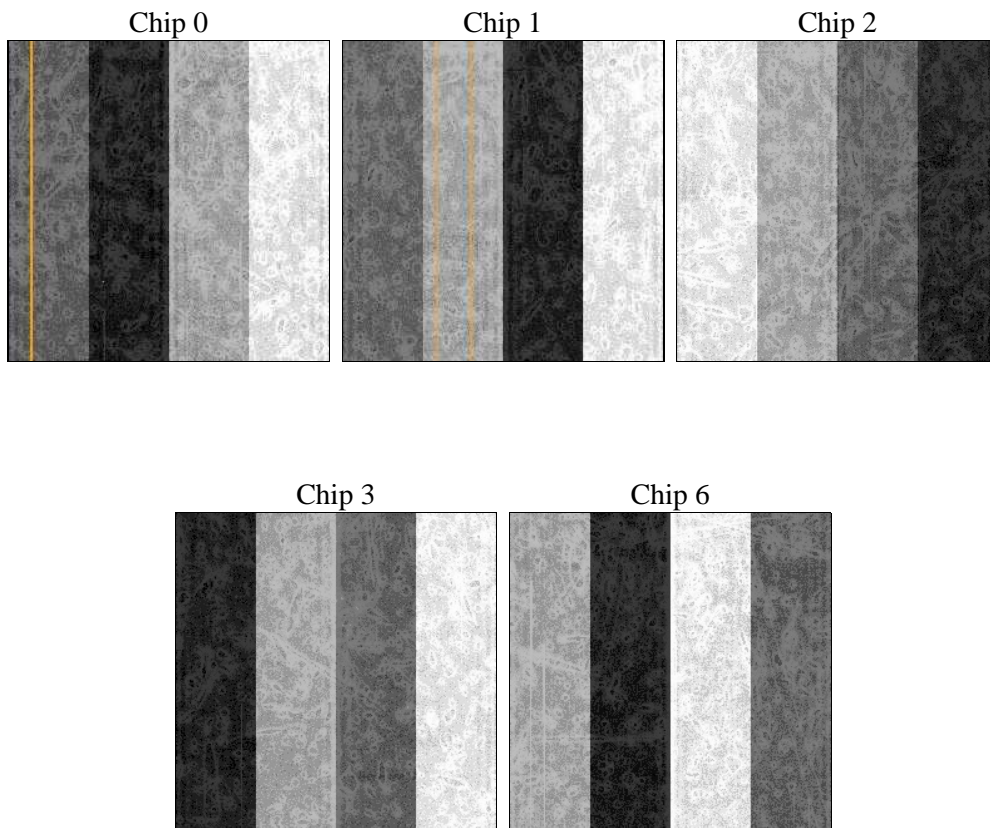
## 2 OBI

### 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	4671.6999909878	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4671.6999909878	Sum of GTIs [s]
date	2012-10-26T00:14:53	Date and time of file creation	ontime1	4671.6999909878	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4671.6999909878	Sum of GTIs [s]
			ontime3	4671.6999909878	Sum of GTIs [s]
			ontime6	4671.6999909878	Sum of GTIs [s]
			l1events	117961	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23141	22496	25667	23817	22840
rejected events	20686	20014	23344	21649	20537
rejected %	89%	88%	90%	90%	89%

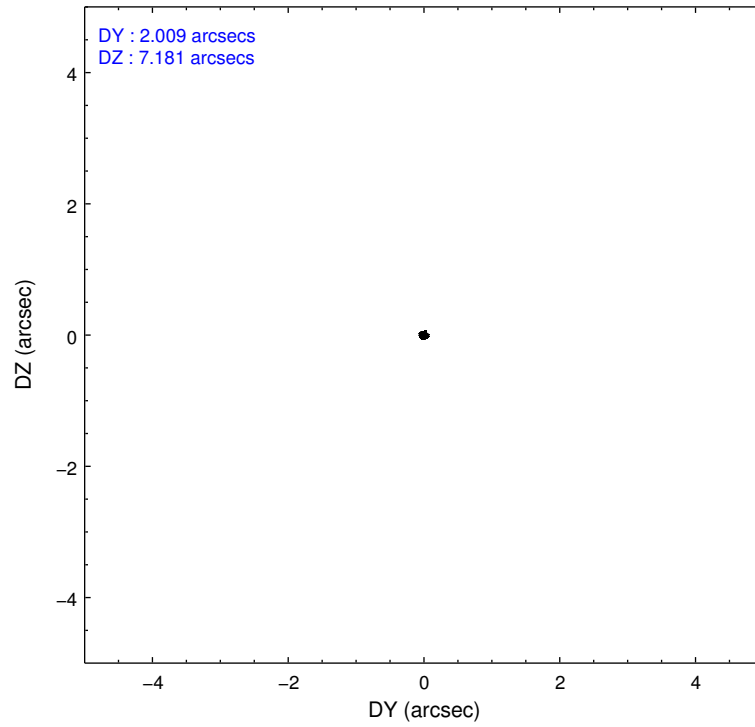
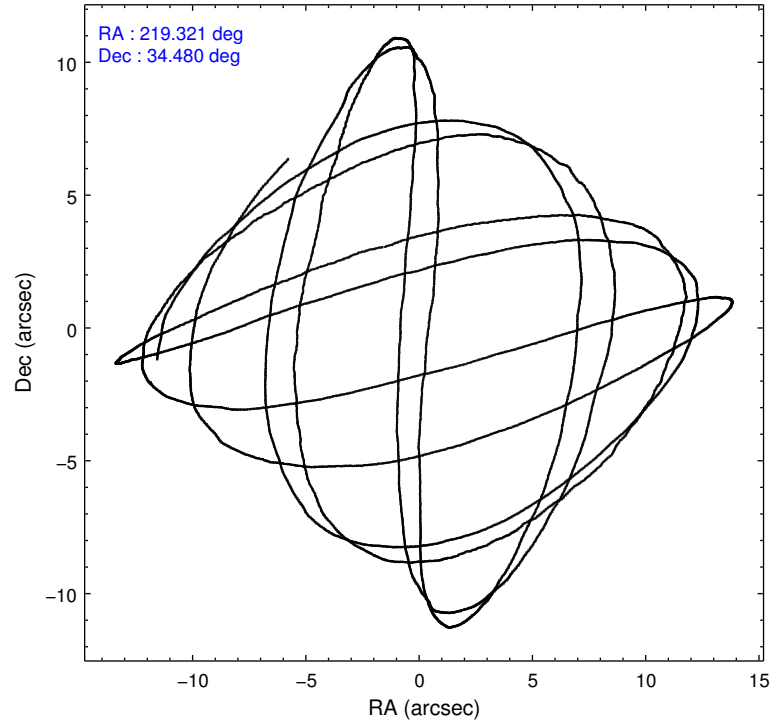
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	918	885	861	805	844
	3%	3%	3%	3%	3%
grade 1 events	16	5	17	11	7
	0%	0%	0%	0%	0%
grade 2 events	526	529	560	449	498
	2%	2%	2%	1%	2%
grade 3 events	302	272	285	271	239
	1%	1%	1%	1%	1%
grade 4 events	256	291	229	247	262
	1%	1%	0%	1%	1%
grade 5 events	708	767	603	774	721
	3%	3%	2%	3%	3%
grade 6 events	454	510	394	399	461
	1%	2%	1%	1%	2%
grade 7 events	19961	19237	22718	20861	19808
	86%	85%	88%	87%	86%

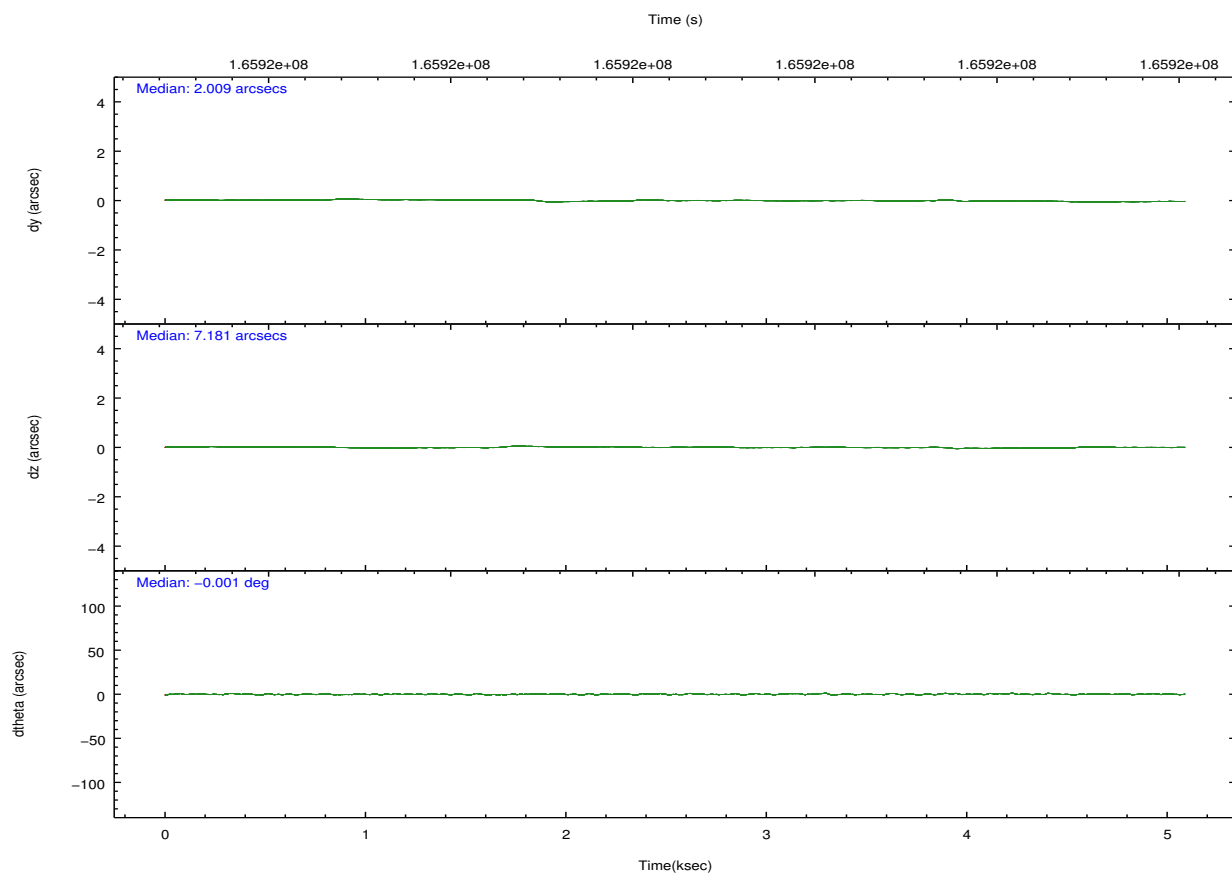
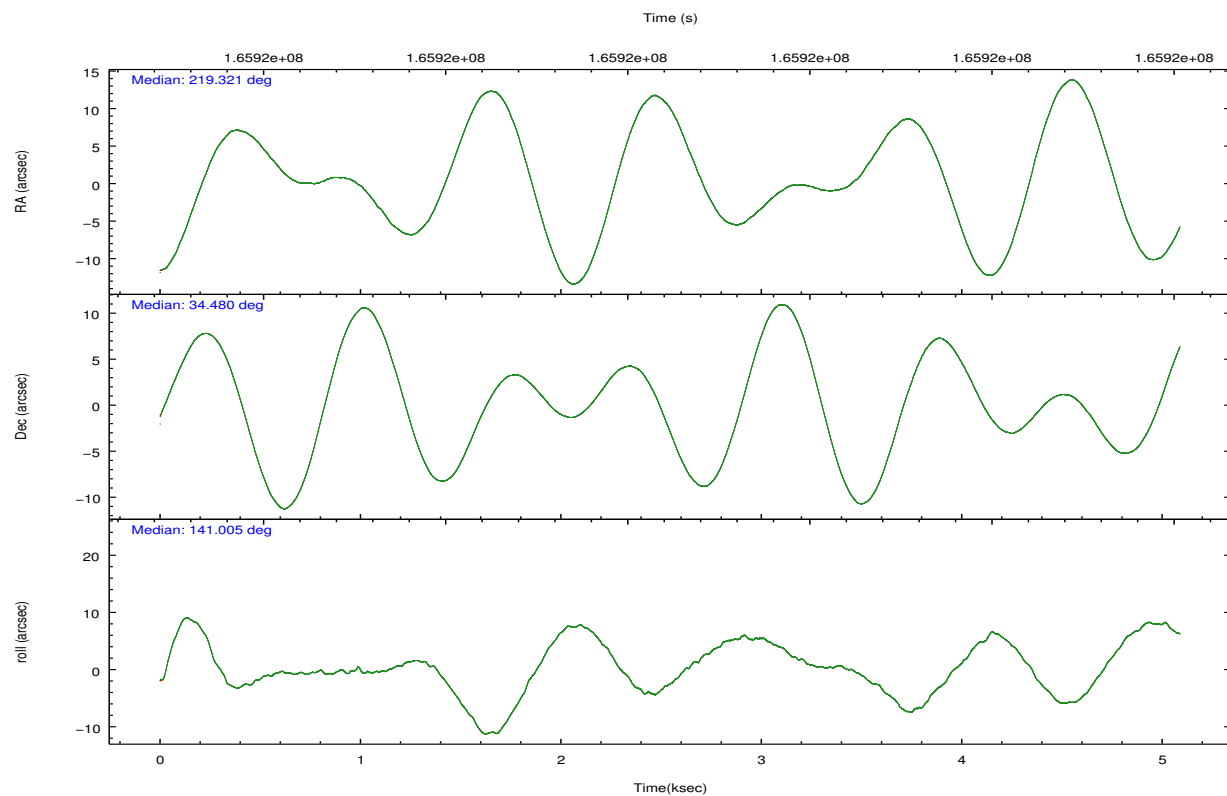


## 2.2 Compared Parameters

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	219.353955	219.3210545110214	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.475308	34.47945564808983	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782905	141.0102192033131	[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)	165918877.184000	165918500.69721			
Observation start date	2003-04-05T08:33:33	2003-04-05T08:28:20			
[s] Observation end time (MET)	165923777.184000	165923910.64744			
Observation end date	2003-04-05T09:55:13	2003-04-05T09:58:30			
Read mode	TIMED	TIMED			

## 2.3 Aspect



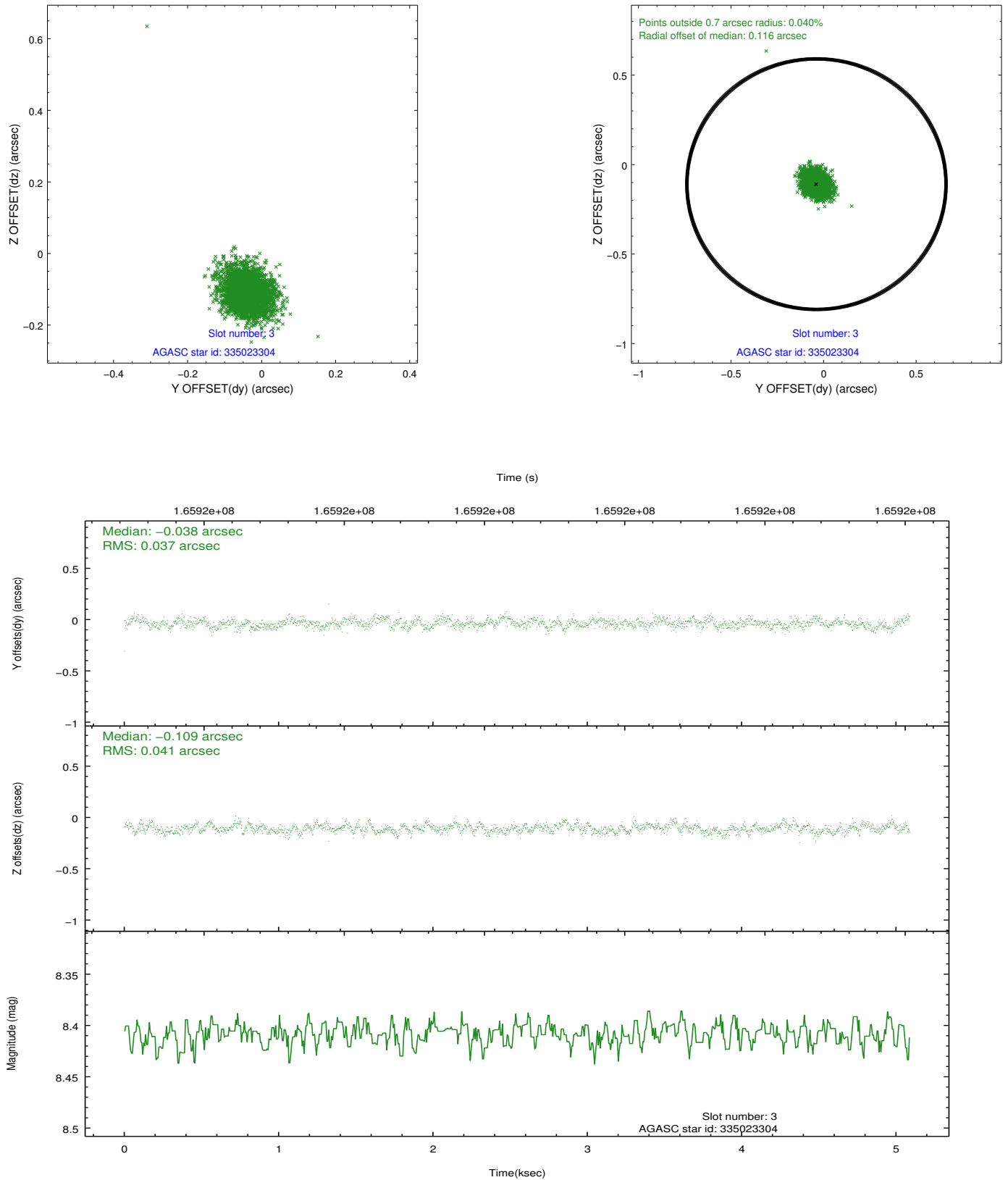


### Slot Statistics

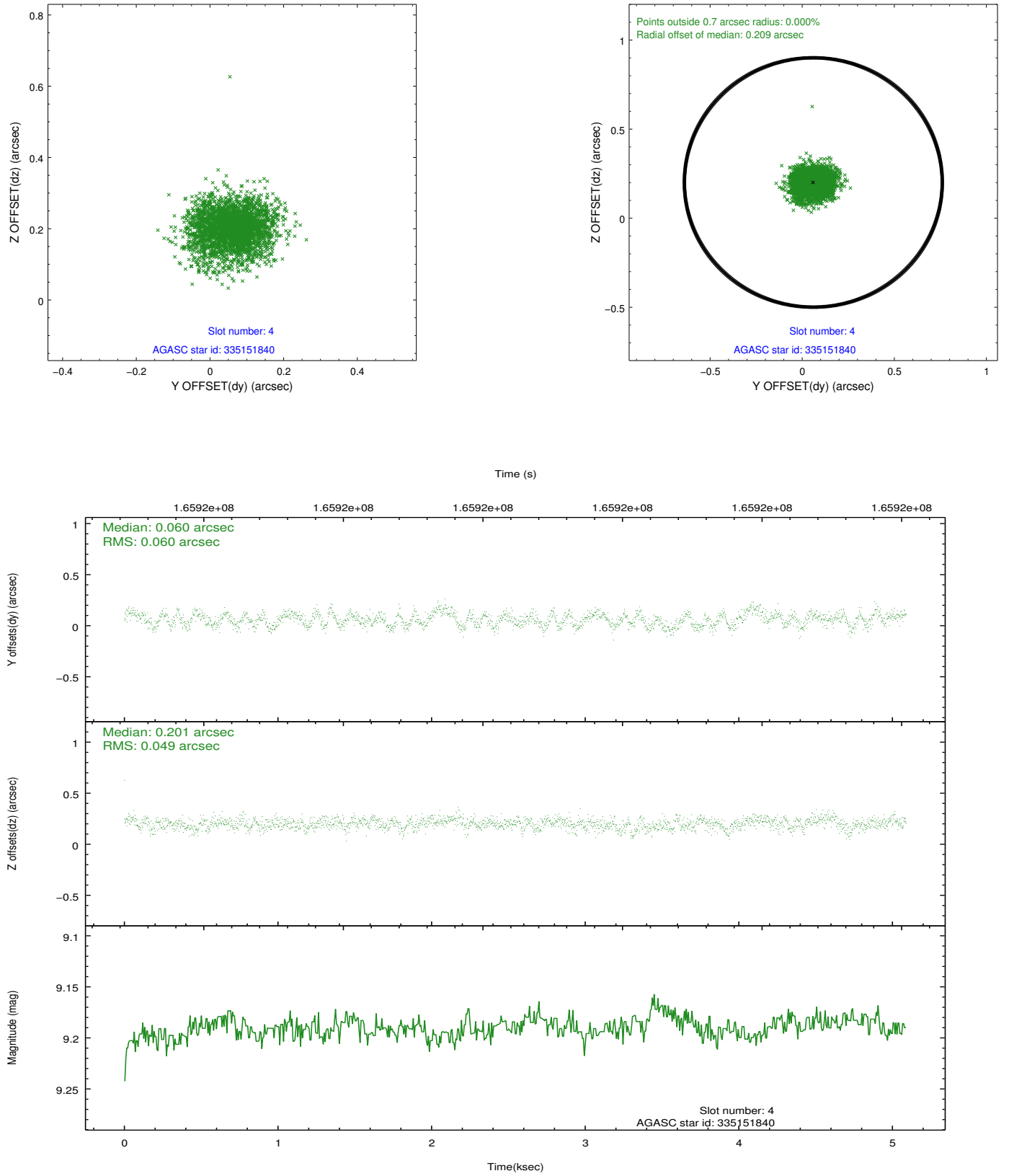
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1242	0.007	0.016	0.006	0.011	0.000000	0.000000	937.80	-830.58
1	FID	ACIS-I-5	7.24	1242	-0.073	0.054	0.006	0.011	0.000000	0.000000	-1809.68	1066.41
2	FID	ACIS-I-6	7.26	1242	-0.026	0.001	0.007	0.011	0.000000	0.000000	402.08	1712.16
3	GUIDE	335023304	8.41	2478	-0.038	-0.109	0.057	0.091	218.883608	34.686545	1561.37	288.87
4	GUIDE	335151840	9.19	2482	0.060	0.201	0.084	0.131	220.238613	34.430640	-2128.88	-1544.84
5	GUIDE	335152784	7.26	2483	0.056	-0.188	0.059	0.099	219.280617	33.678221	-1645.32	2361.36
6	GUIDE	335157088	9.10	2483	0.068	-0.107	0.112	0.171	219.274029	33.726909	-1519.02	2239.59
7	GUIDE	335414336	8.98	2472	-0.152	0.205	0.096	0.152	218.979022	35.090910	2257.38	-1018.78

## 2.4 Star Slots

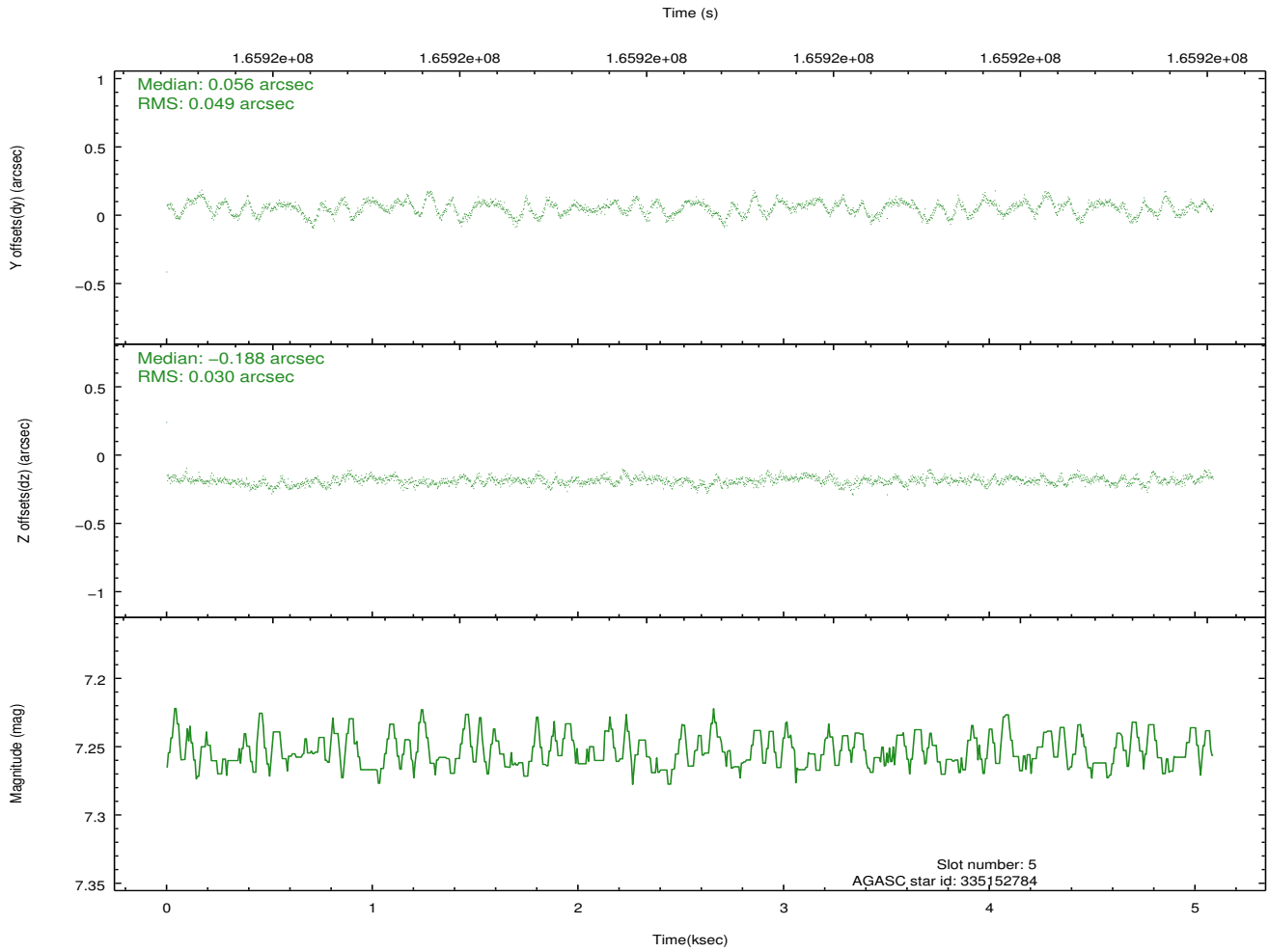
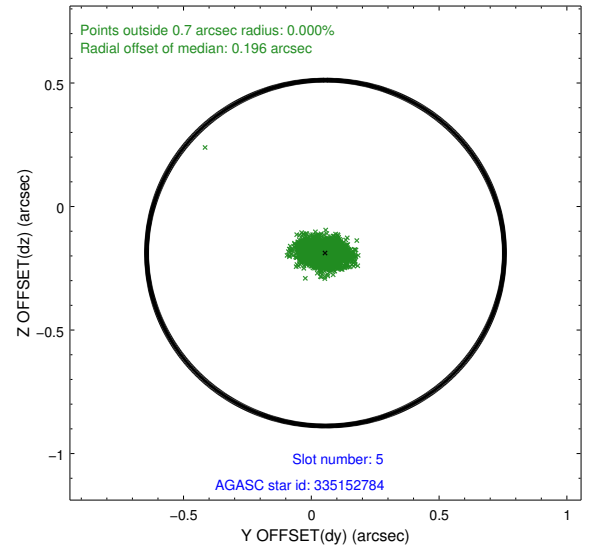
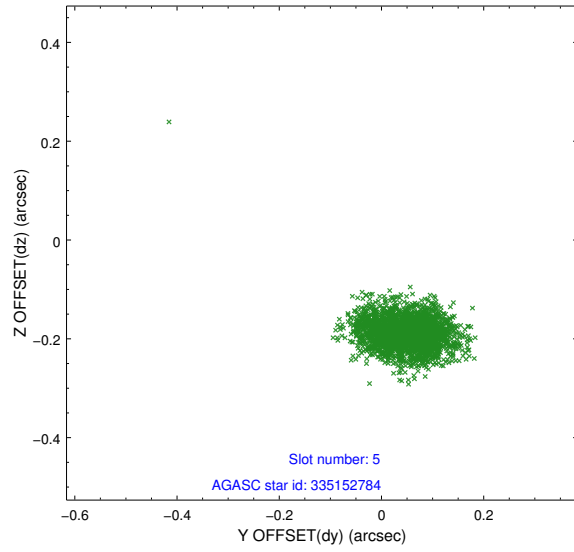
### 2.4.1 Slot 3



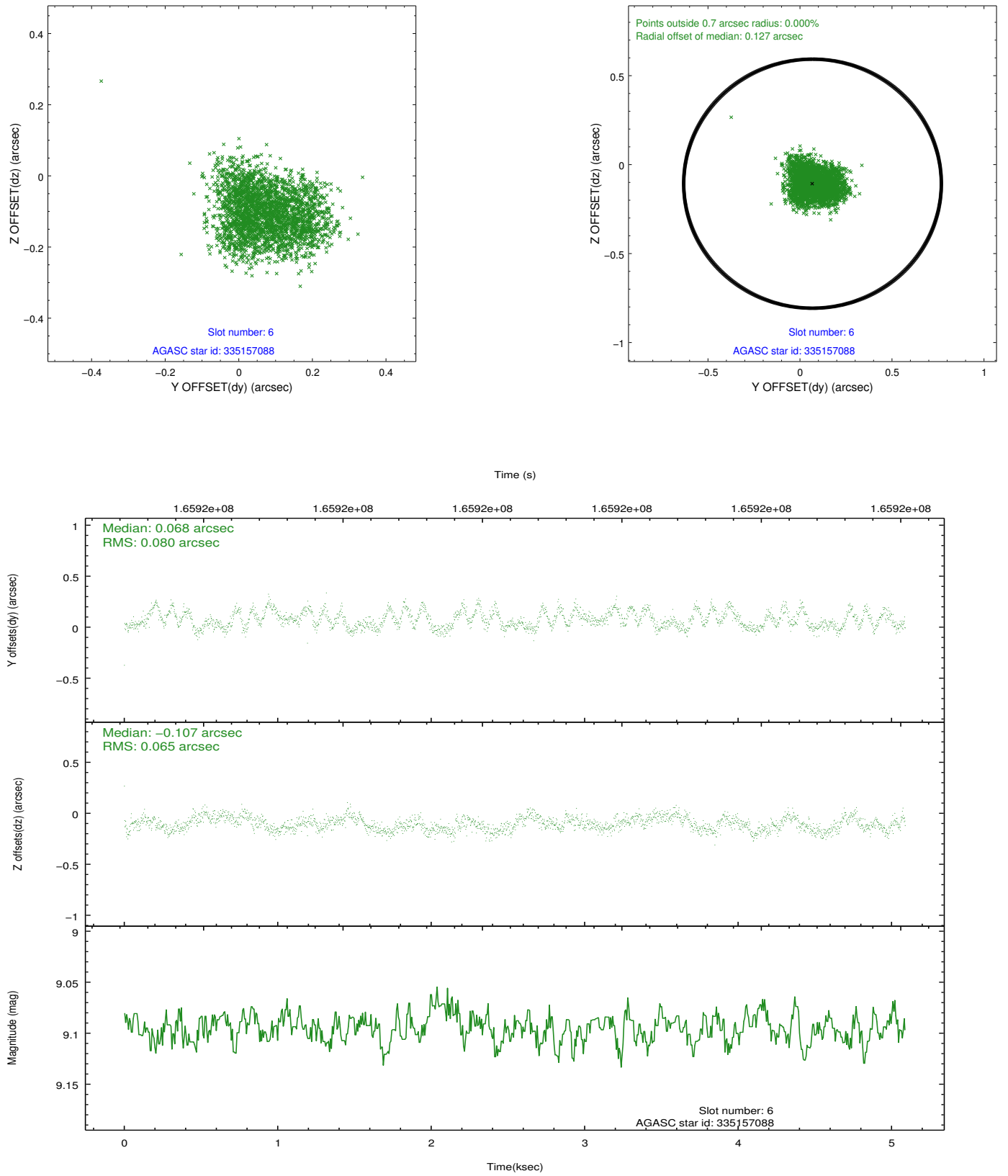
## 2.4.2 Slot 4



### 2.4.3 Slot 5

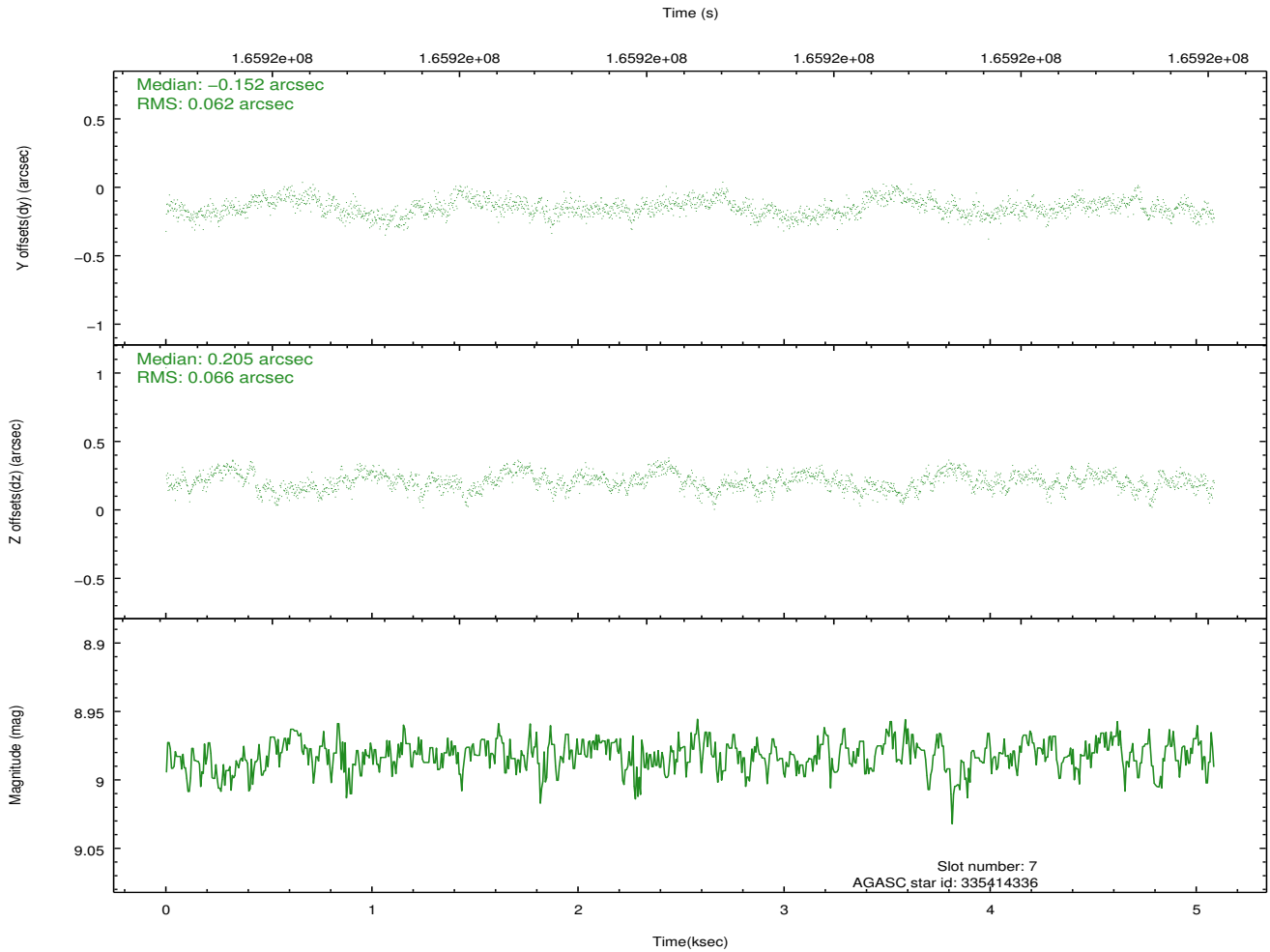
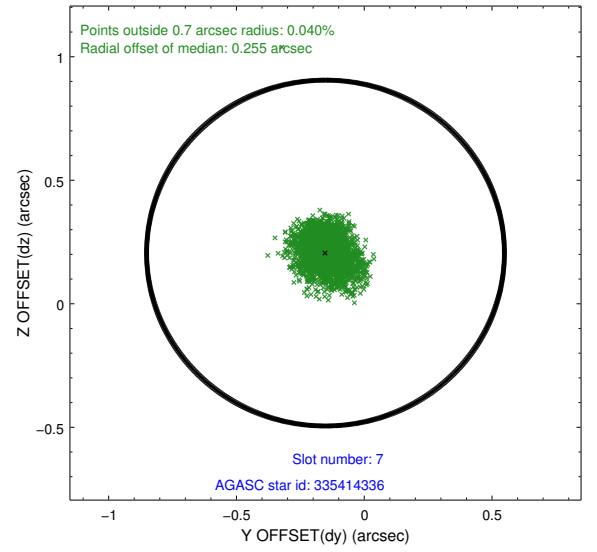
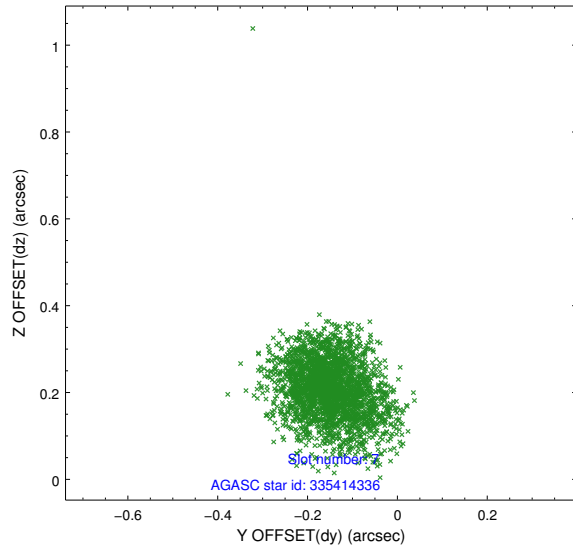


## 2.4.4 Slot 6



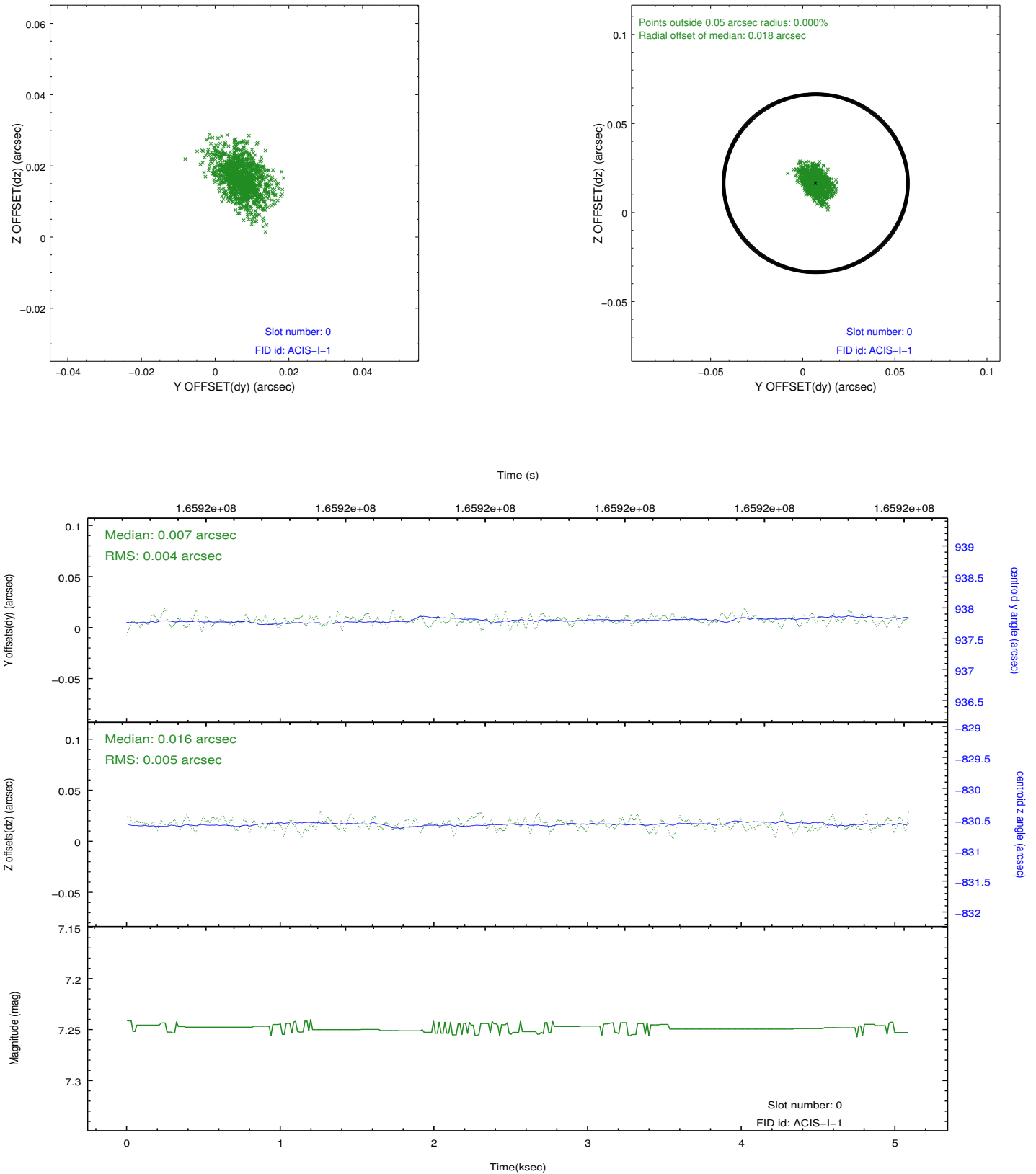


## 2.4.5 Slot 7

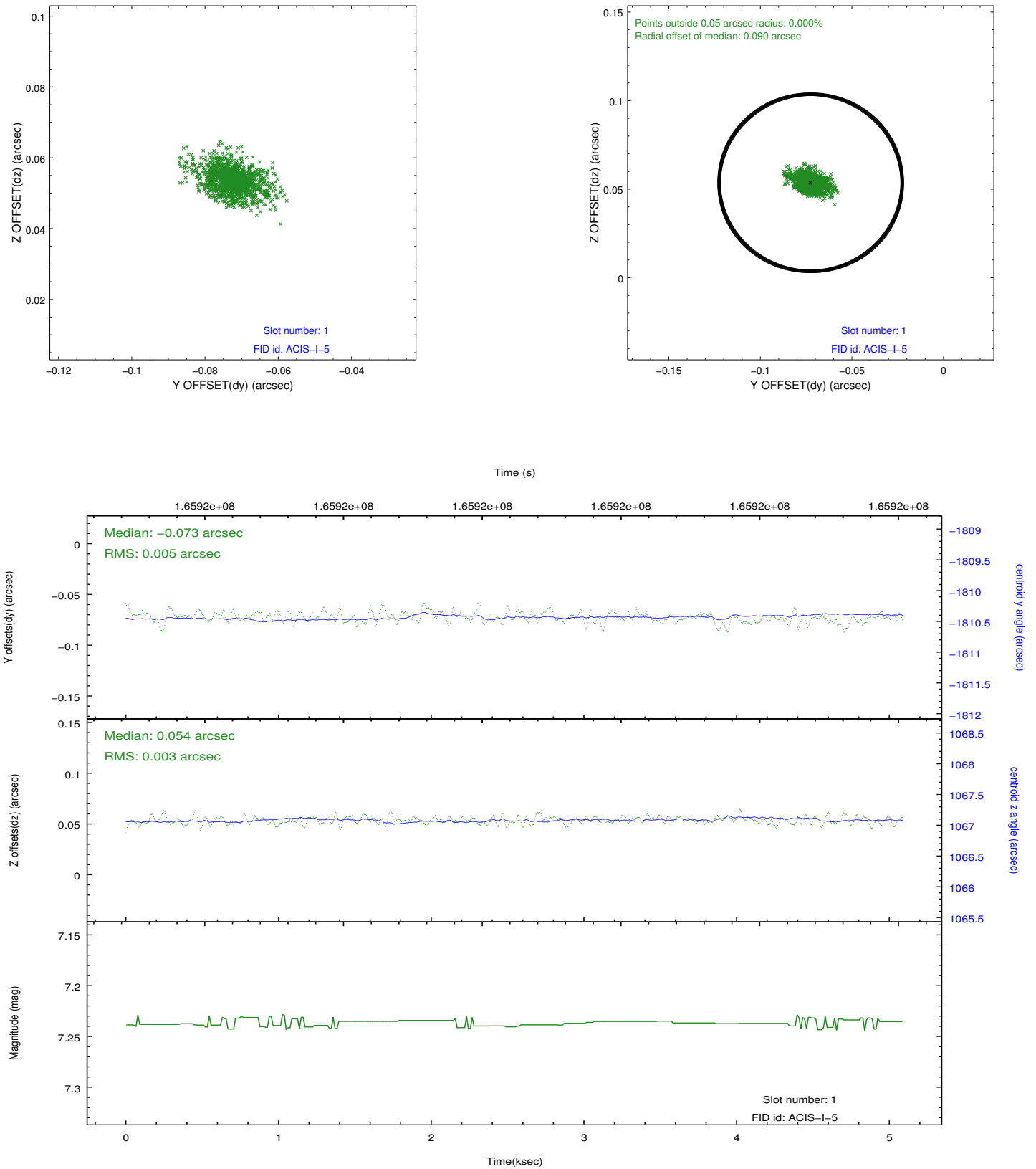


## 2.5 FID Slots

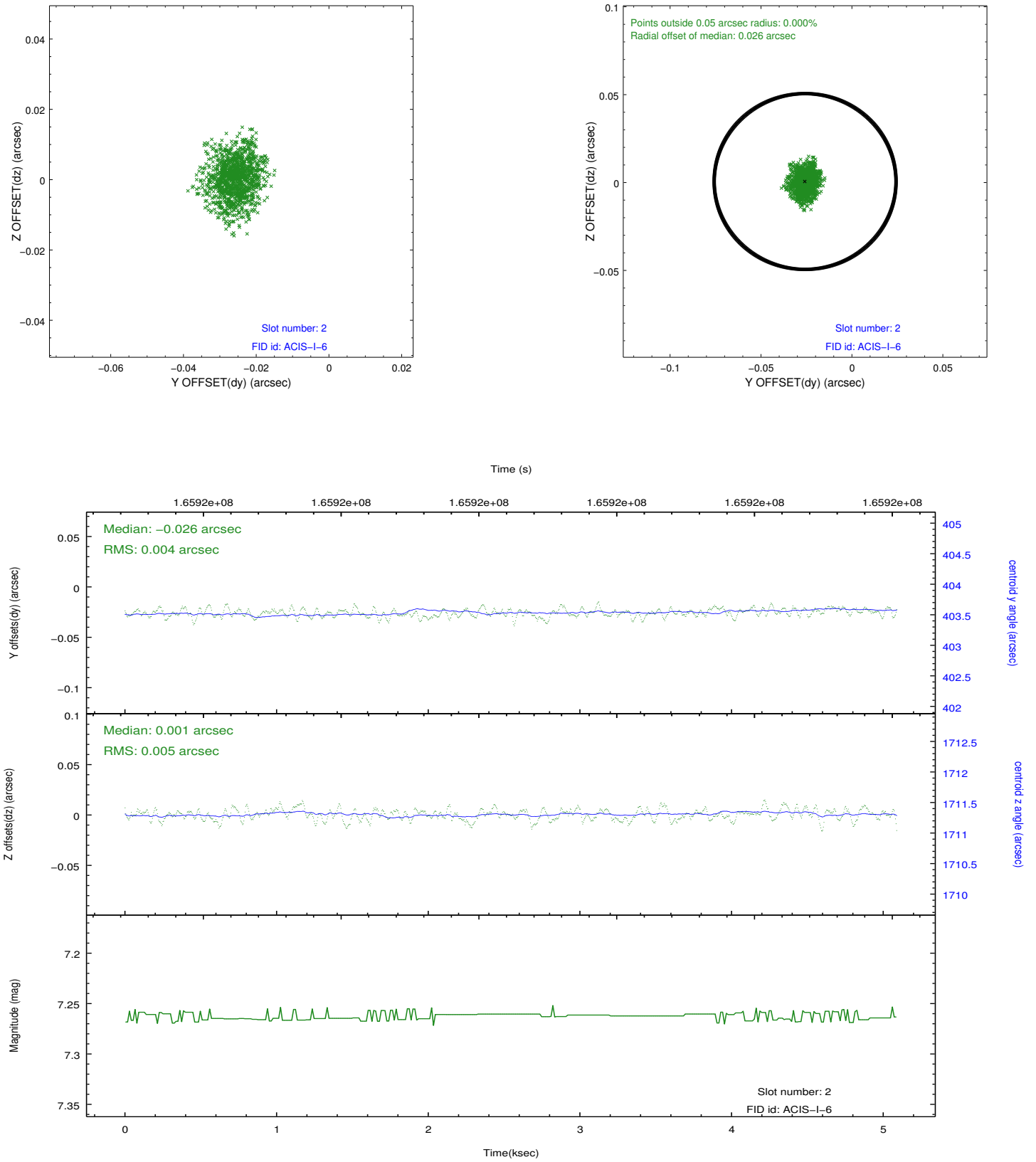
### 2.5.1 Slot 0



## 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**