

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3621 - L2 Version 3  
Chandra X-Ray Center

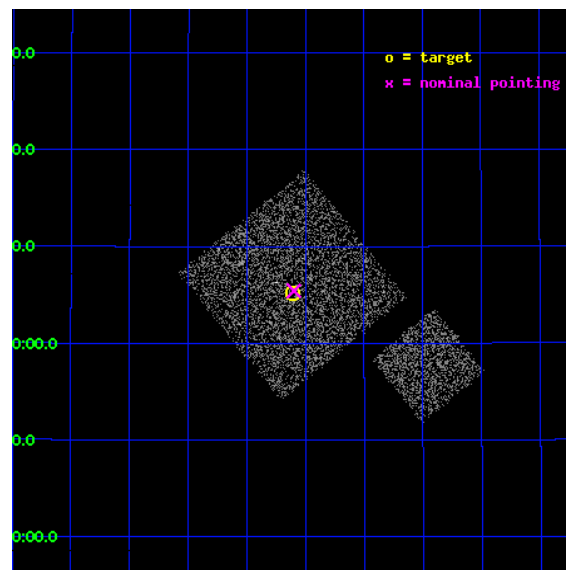
L2 Processing Date : Oct 24 2012

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# 1 Front

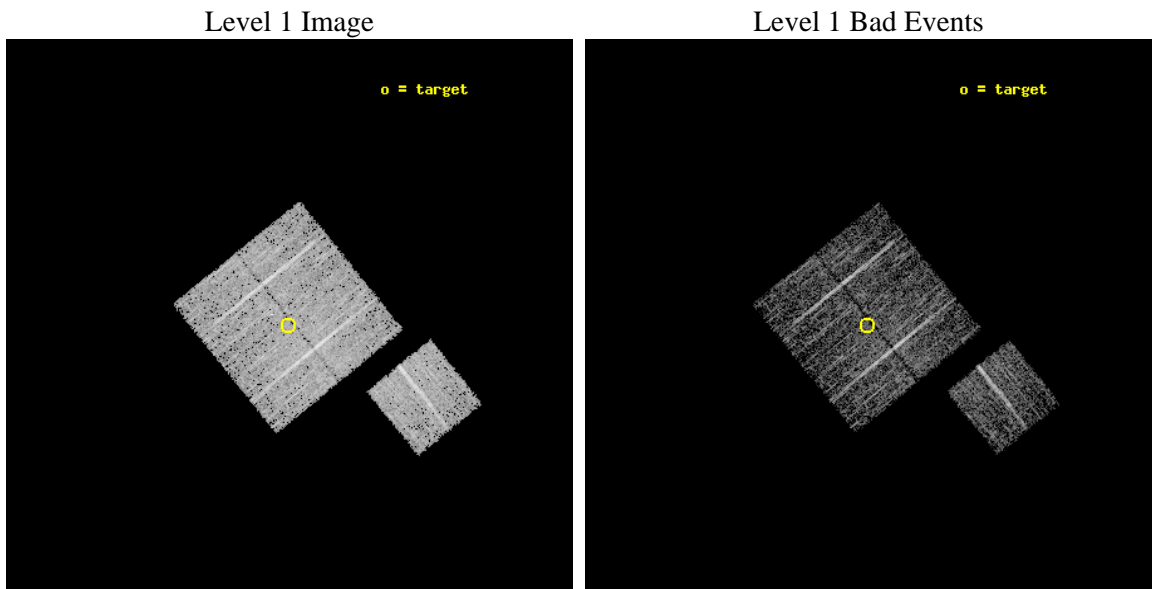
seq_num	900221	Sequence number
obs_id	3621	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F38	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.527246	Observer's specified target RA [deg]
dec_targ	35.08647	Observer's specified target Dec [deg]
ra_nom	216.52451272675	Nominal RA [deg]
dec_nom	35.090484433459	Nominal Dec [deg]
roll_nom	141.01030236296	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4776.8026606441	Sum of GTIs [s]
livetime	4714.3902172518	Livetime [s]
ontime0	4776.6795406342	Sum of GTIs [s]
ontime1	4776.7205806375	Sum of GTIs [s]
ontime2	4776.7616206408	Sum of GTIs [s]
ontime3	4776.8026606441	Sum of GTIs [s]
ontime6	4776.6385006309	Sum of GTIs [s]
l2events	9705	Number of level 2 events



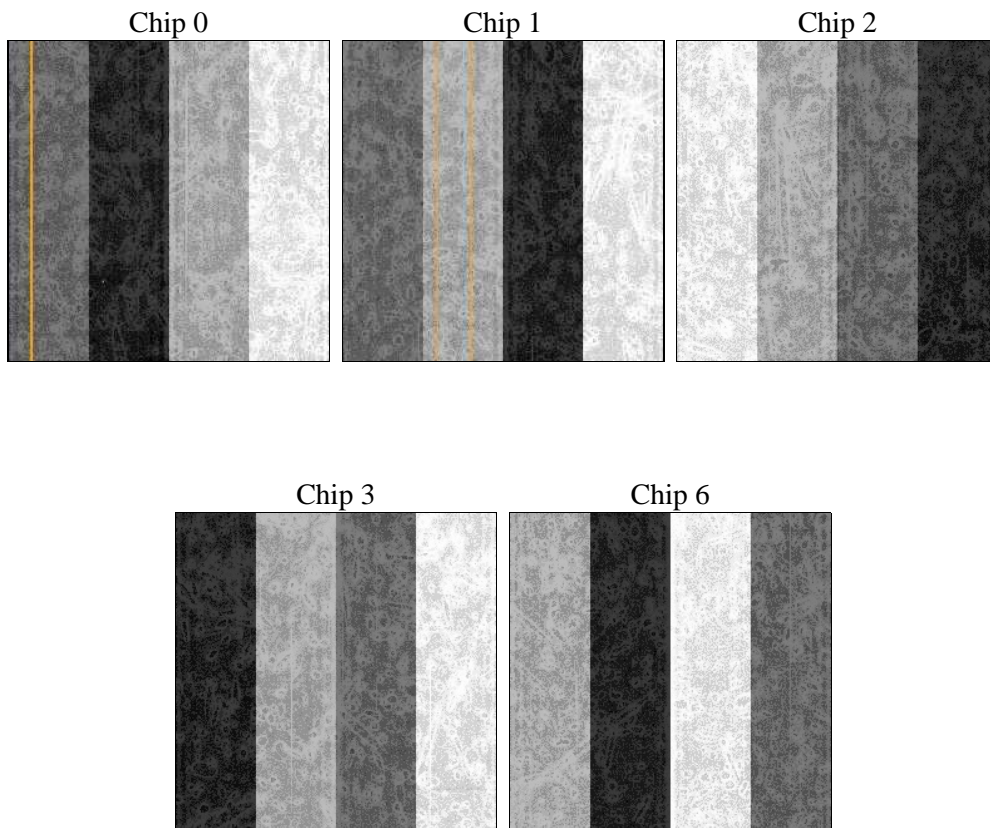
## 2 OBI

### 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	4776.8026606441	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4776.6795406342	Sum of GTIs [s]
date	2012-10-24T20:52:21	Date and time of file creation	ontime1	4776.7205806375	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4776.7616206408	Sum of GTIs [s]
			ontime3	4776.8026606441	Sum of GTIs [s]
			ontime6	4776.6385006309	Sum of GTIs [s]
			l1events	119183	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22309	22519	24997	24824	24534
rejected events	19892	19835	22742	22604	22061
rejected %	89%	88%	90%	91%	89%

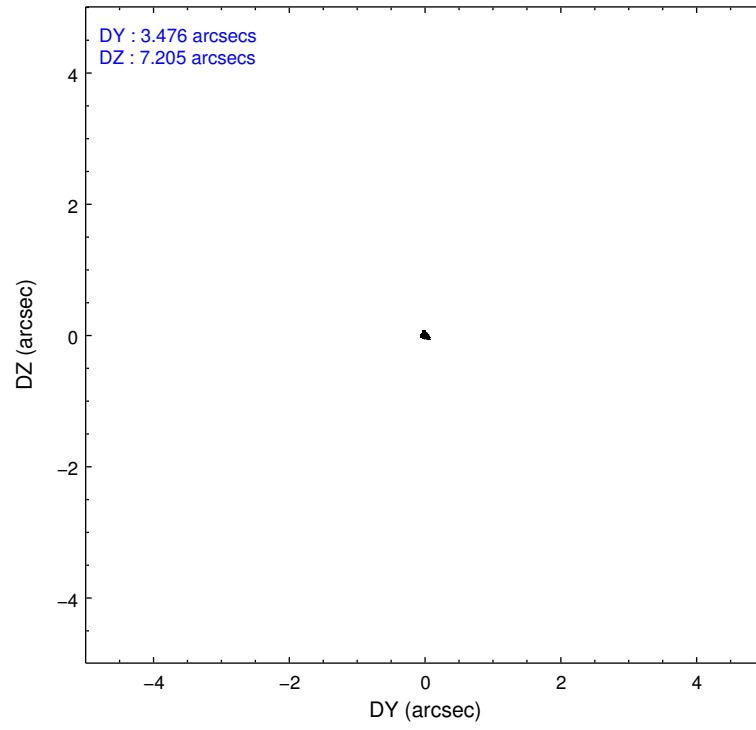
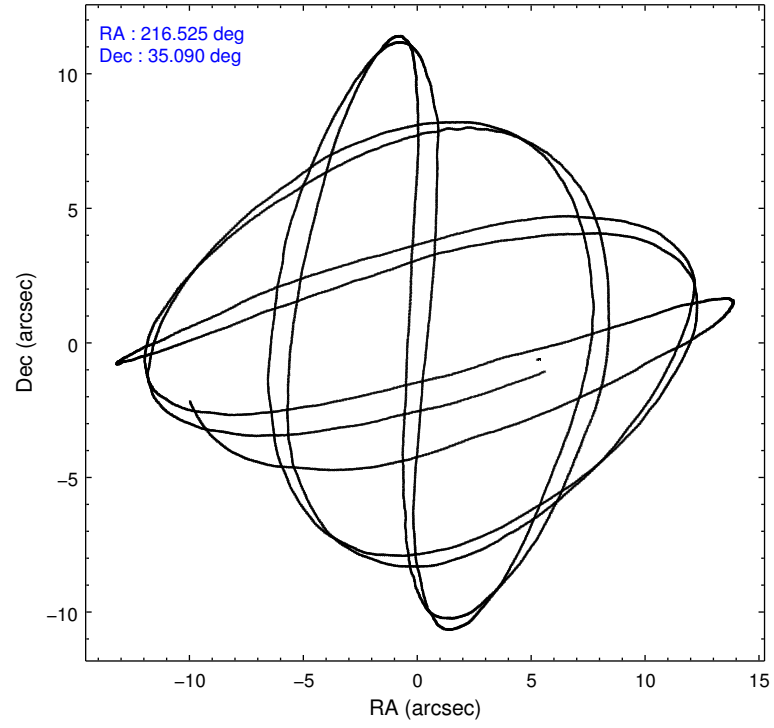
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	867	1012	866	839	887
	3%	4%	3%	3%	3%
grade 1 events	17	10	10	19	12
	0%	0%	0%	0%	0%
grade 2 events	545	559	503	434	521
	2%	2%	2%	1%	2%
grade 3 events	312	310	242	280	287
	1%	1%	0%	1%	1%
grade 4 events	277	322	268	296	282
	1%	1%	1%	1%	1%
grade 5 events	703	744	648	806	745
	3%	3%	2%	3%	3%
grade 6 events	418	483	377	373	496
	1%	2%	1%	1%	2%
grade 7 events	19170	19079	22083	21777	21304
	85%	84%	88%	87%	86%

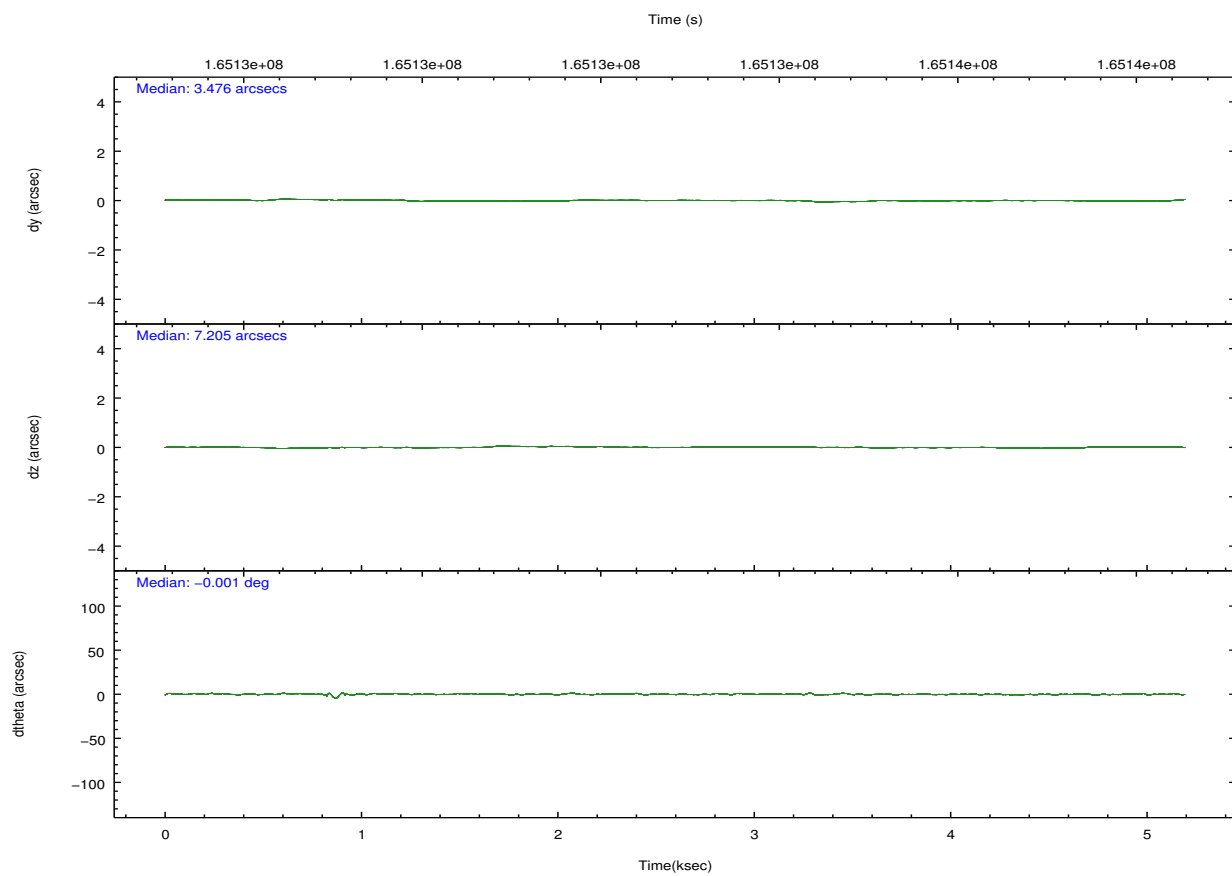
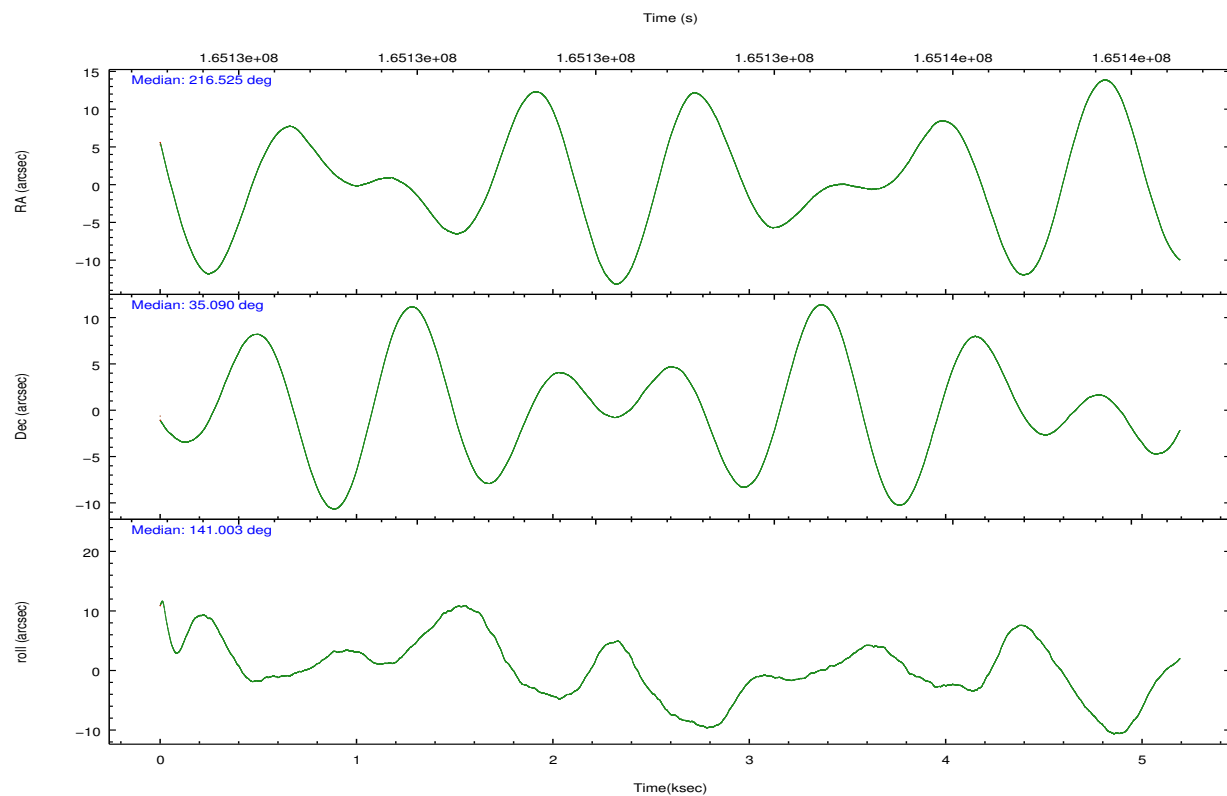


## 2.2 Compared Parameters

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	216.557660	216.5245127267547	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.086385	35.09048443345878	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782520	141.0103023629585	[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)	165131009.184000	165130633.38898			
Observation start date	2003-03-27T05:42:25	2003-03-27T05:37:13			
[s] Observation end time (MET)	165136009.184000	165136143.78922			
Observation end date	2003-03-27T07:05:45	2003-03-27T07:09:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect



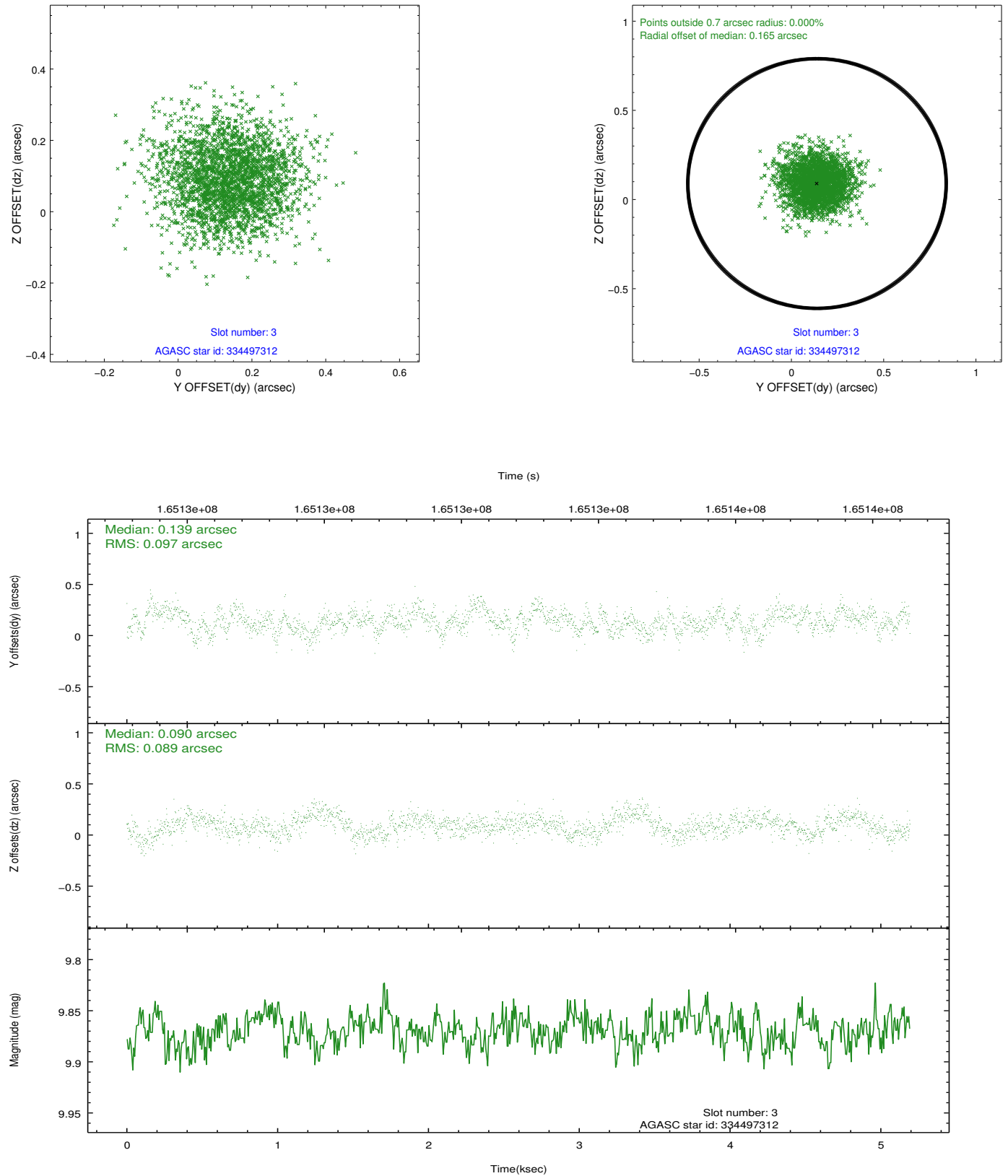


### Slot Statistics

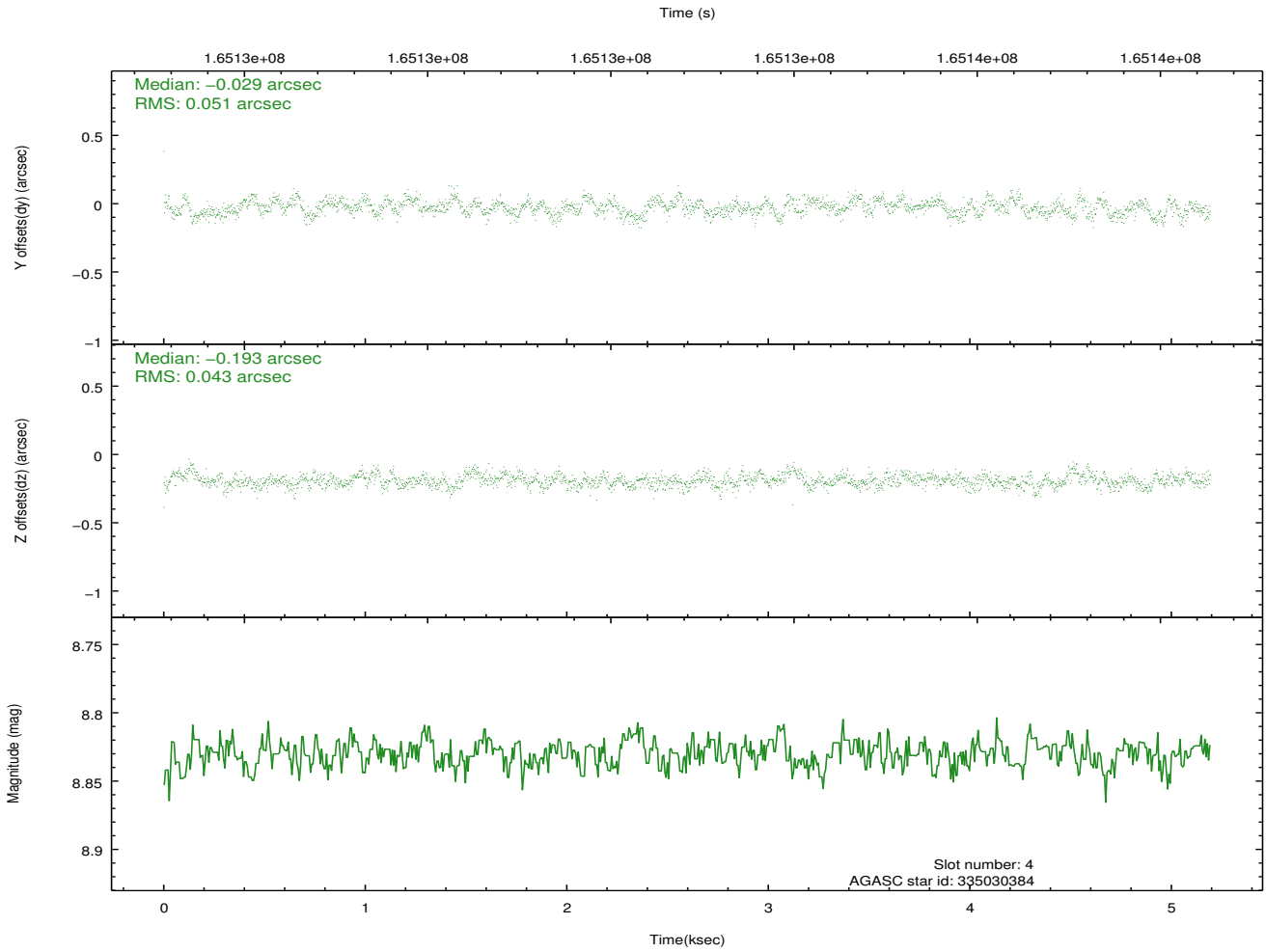
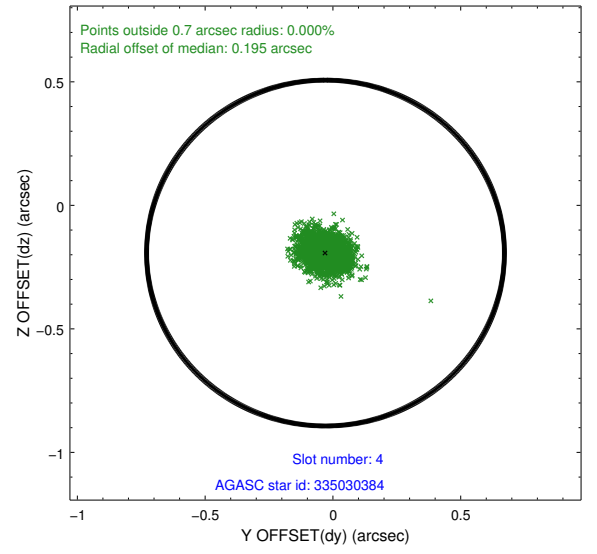
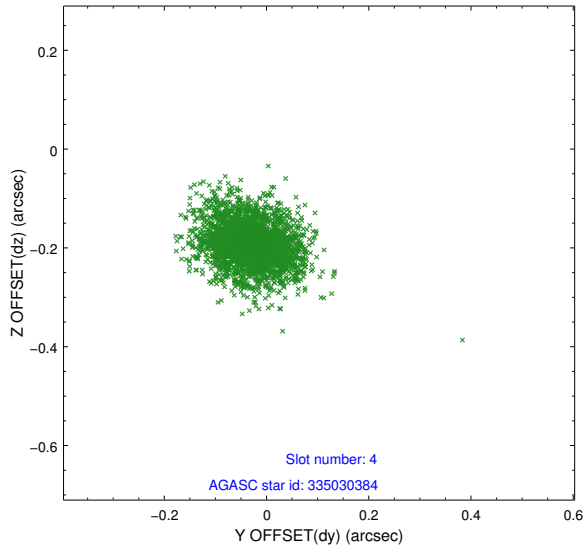
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1267	0.020	0.015	0.006	0.011	0.000000	0.000000	936.31	-830.60
1	FID	ACIS-I-5	7.24	1266	-0.093	0.062	0.006	0.011	0.000000	0.000000	-1811.23	1066.39
2	FID	ACIS-I-6	7.26	1266	-0.018	-0.006	0.007	0.012	0.000000	0.000000	400.59	1712.12
3	GUIDE	334497312	9.87	2529	0.139	0.090	0.141	0.226	215.482164	35.047592	2378.36	2099.47
4	GUIDE	335030384	8.83	2532	-0.029	-0.193	0.071	0.115	216.806407	34.722197	-1397.54	550.10
5	GUIDE	335414448	7.37	2534	-0.181	-0.002	0.073	0.111	216.992261	35.577204	132.50	-2175.41
6	GUIDE	335417968	9.39	2534	0.087	0.027	0.082	0.133	217.358149	35.055285	-1891.89	-1413.27
7	GUIDE	335419120	9.66	2532	-0.017	0.078	0.091	0.151	216.521861	35.833546	1781.42	-2018.21

## 2.4 Star Slots

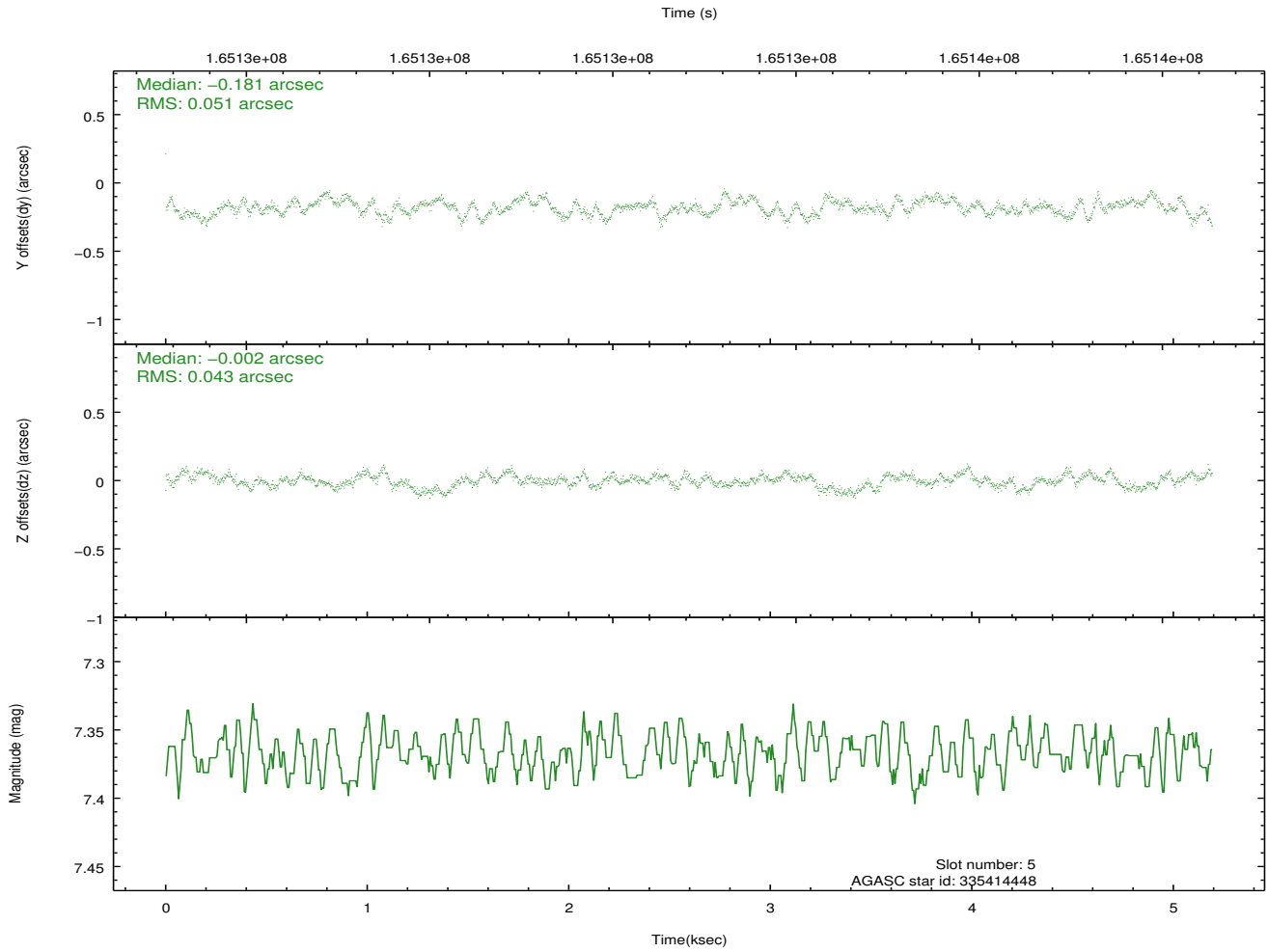
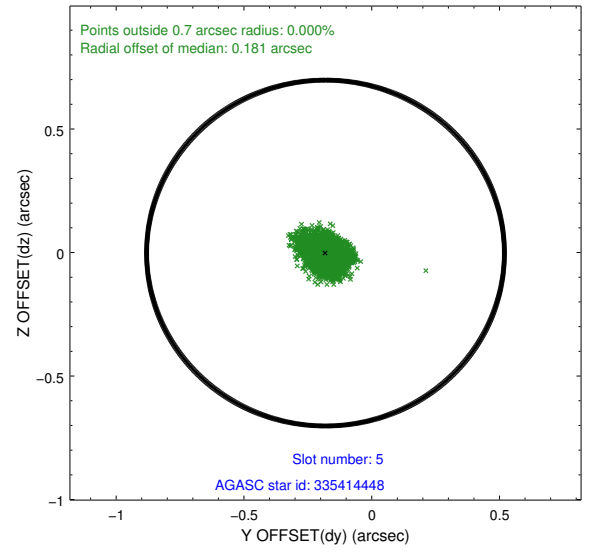
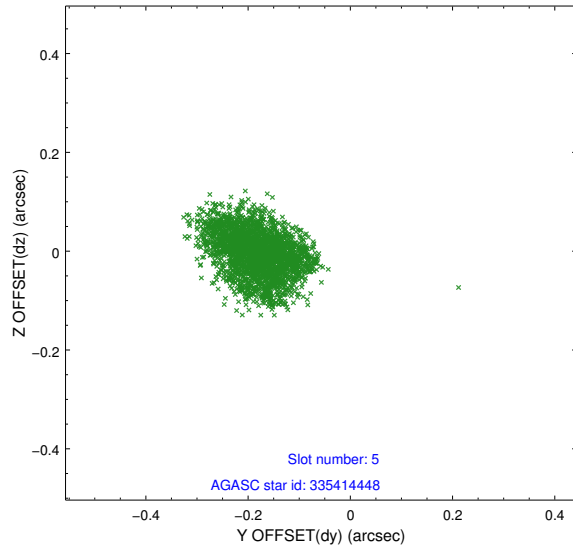
### 2.4.1 Slot 3



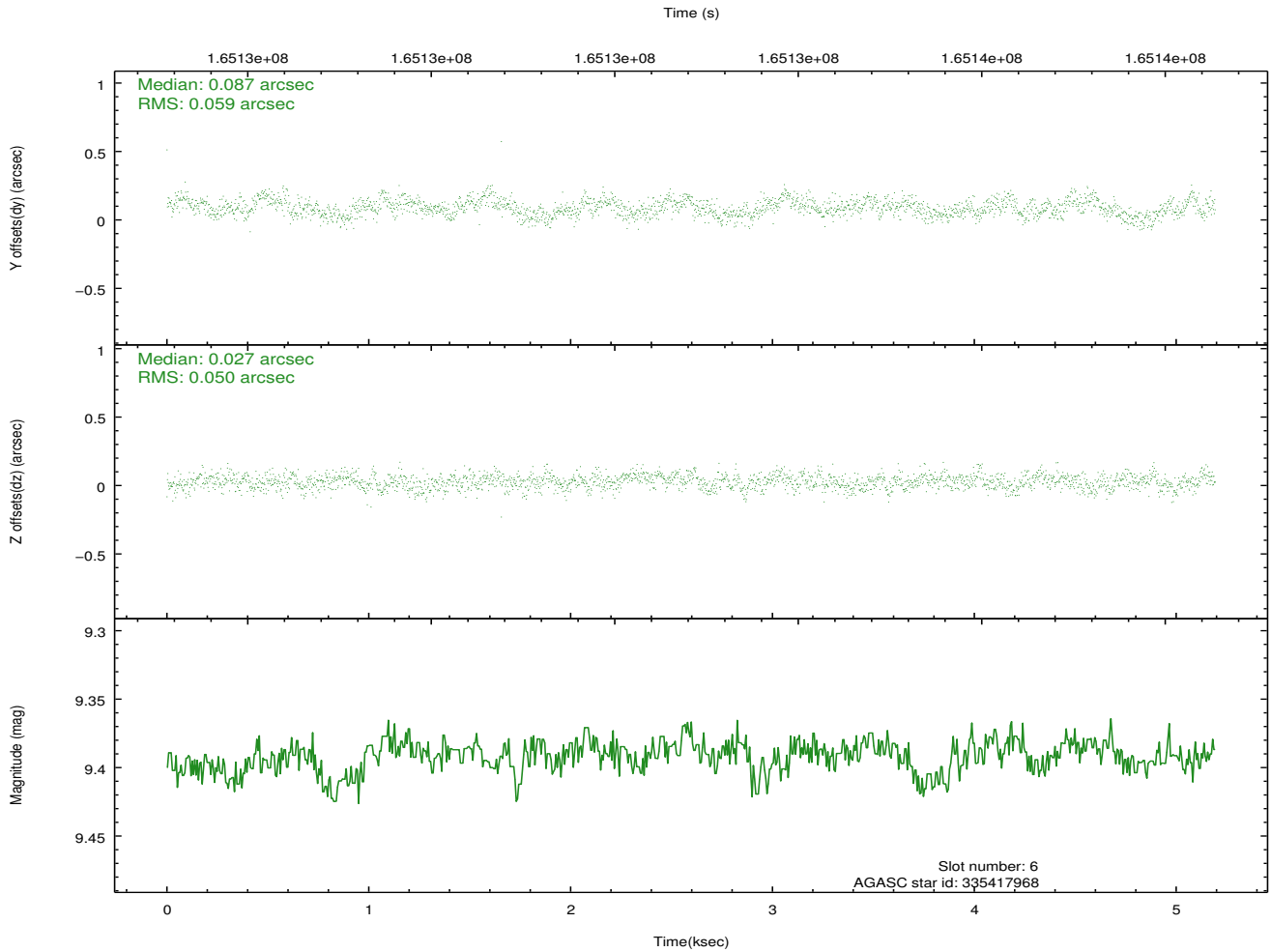
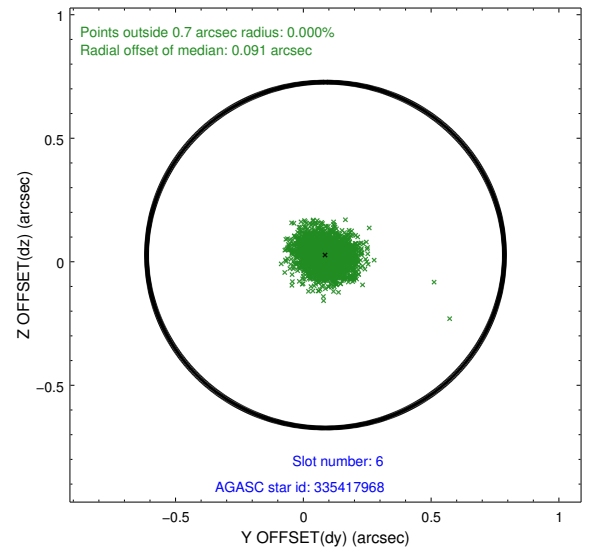
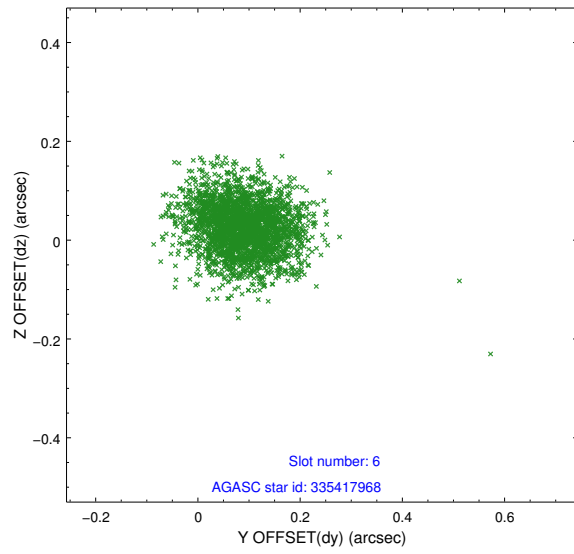
## 2.4.2 Slot 4



### 2.4.3 Slot 5

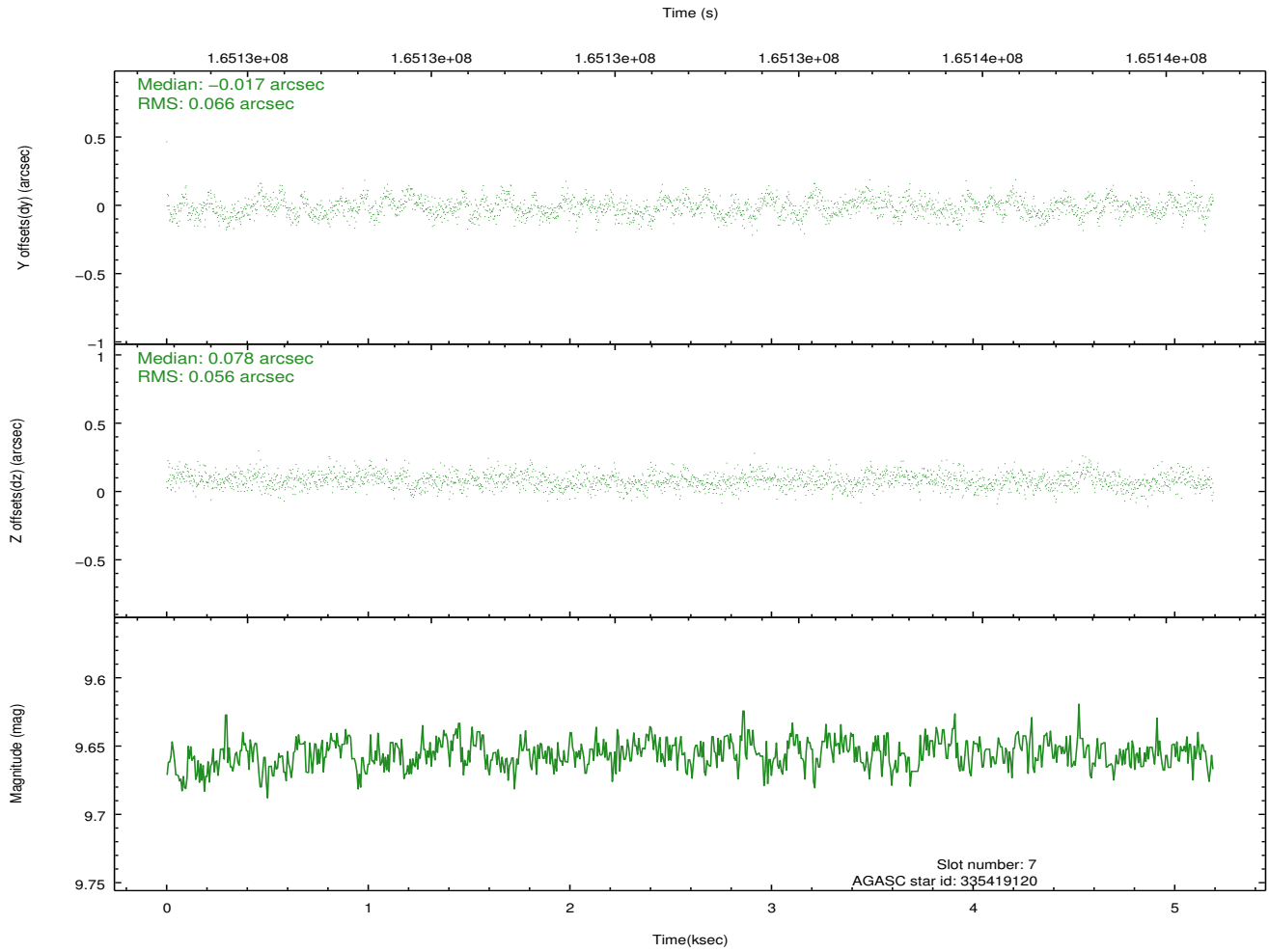
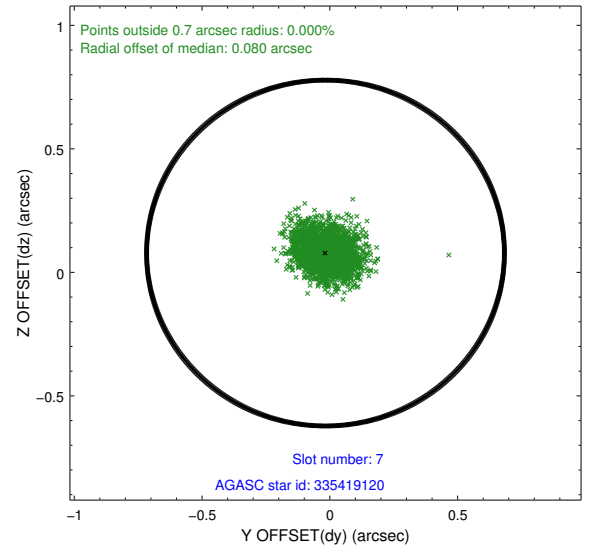
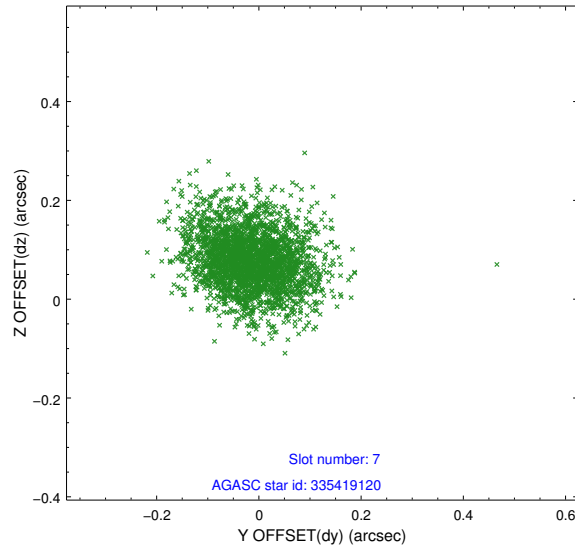


## 2.4.4 Slot 6



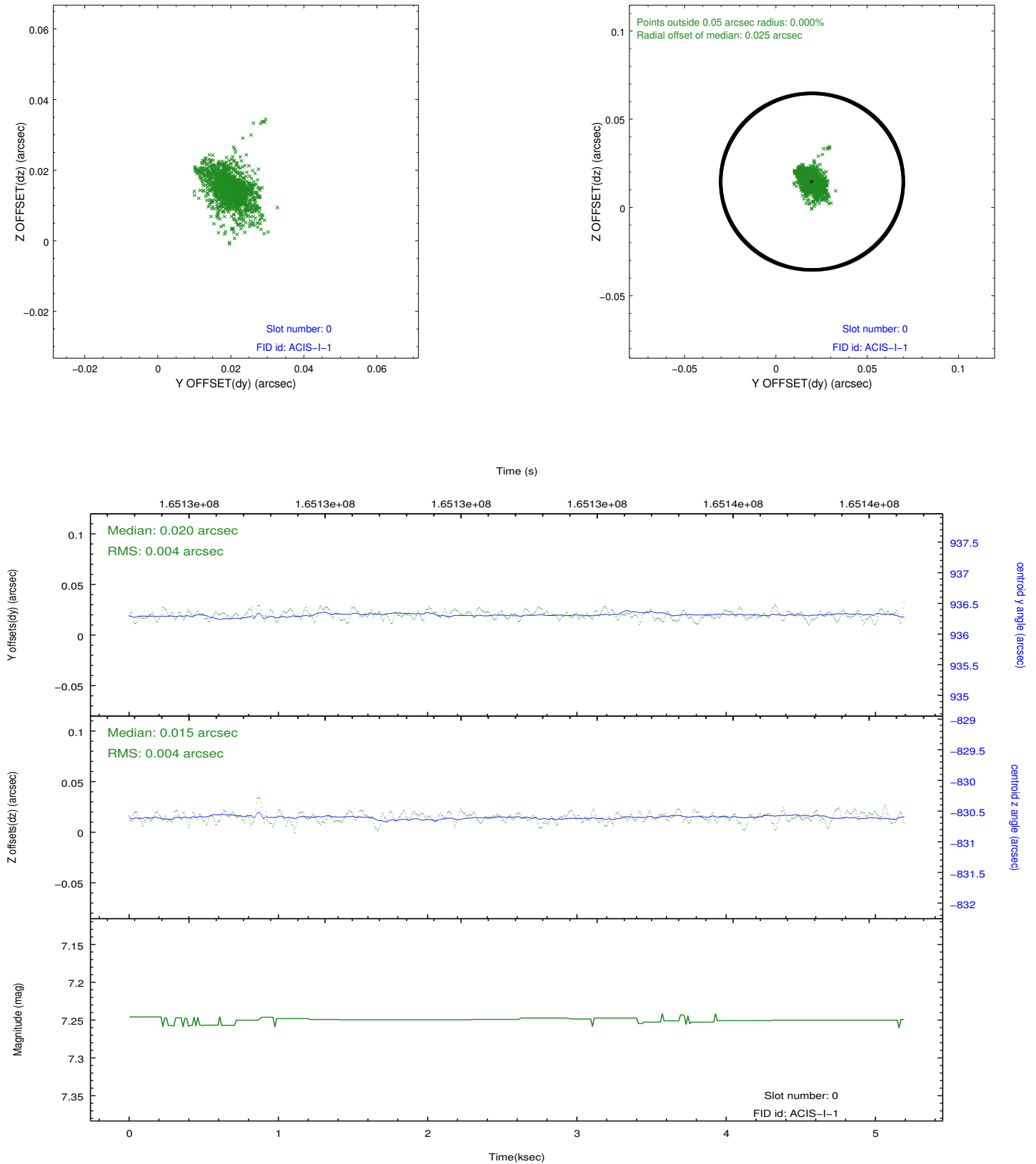


## 2.4.5 Slot 7

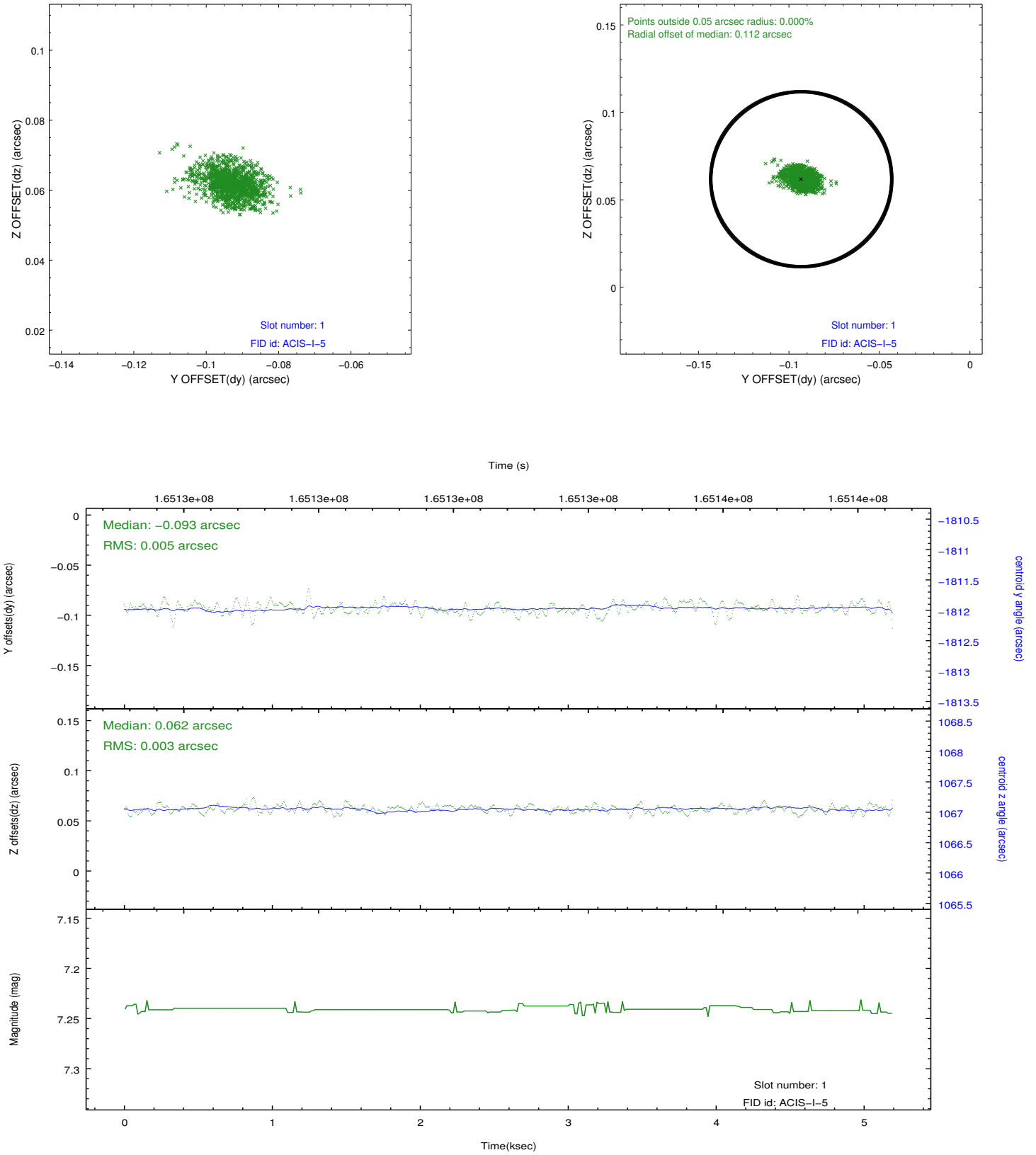


## 2.5 FID Slots

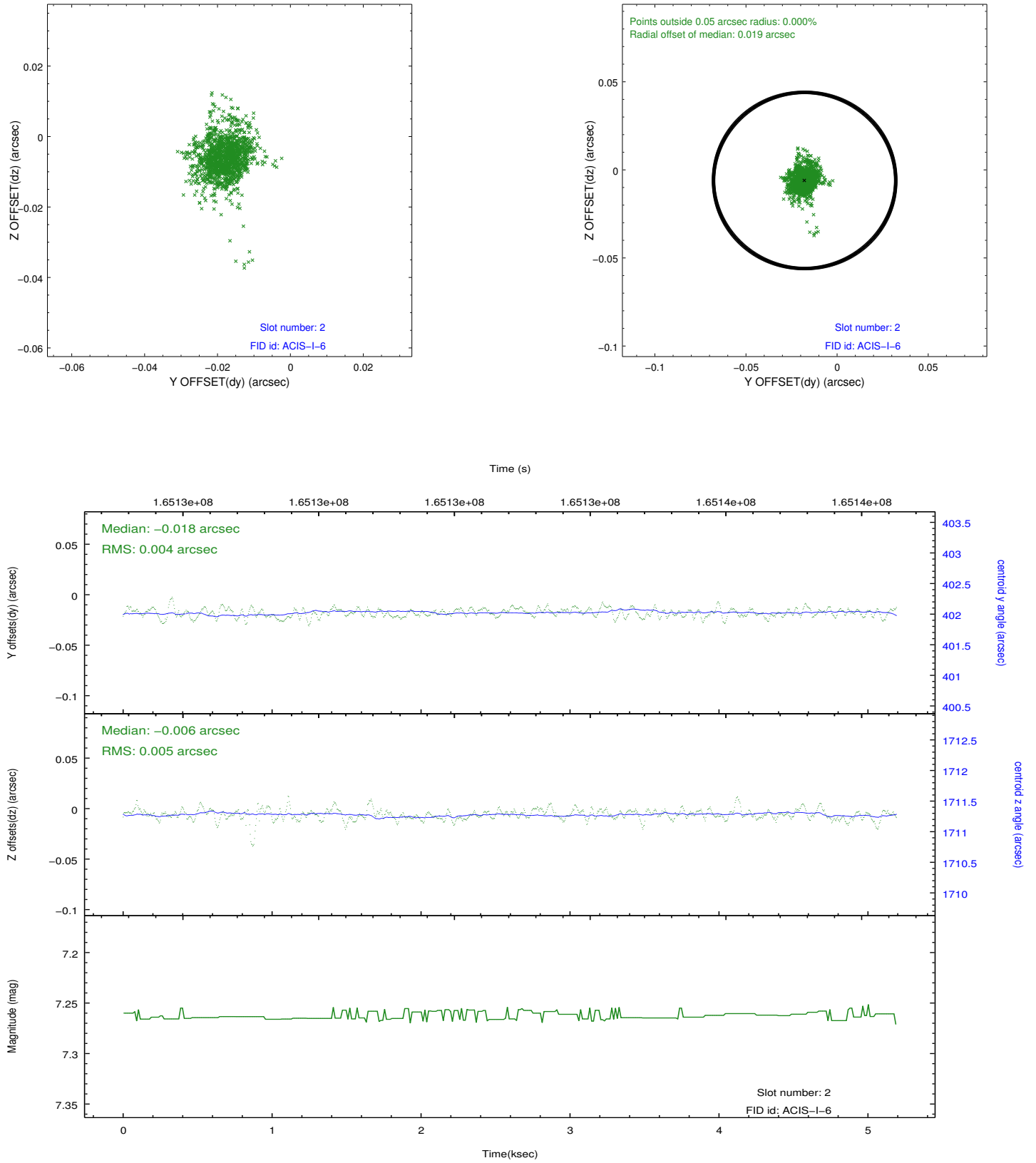
### 2.5.1 Slot 0



## 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	4.777

### **A.2 Comments**