

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3660 - L2 Version 3  
Chandra X-Ray Center

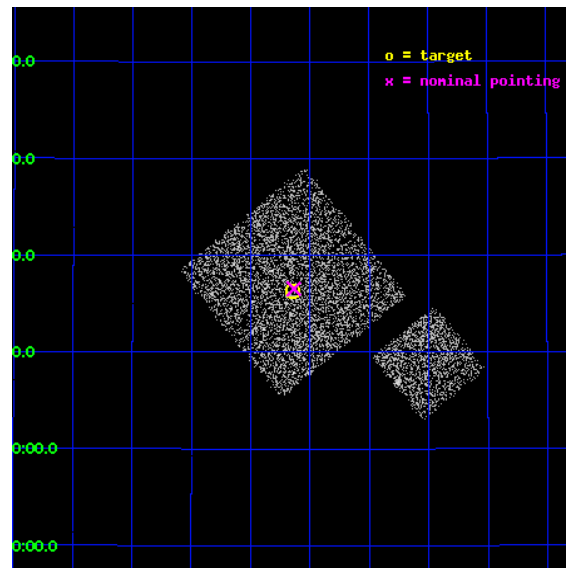
L2 Processing Date : Oct 25 2012

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# 1 Front

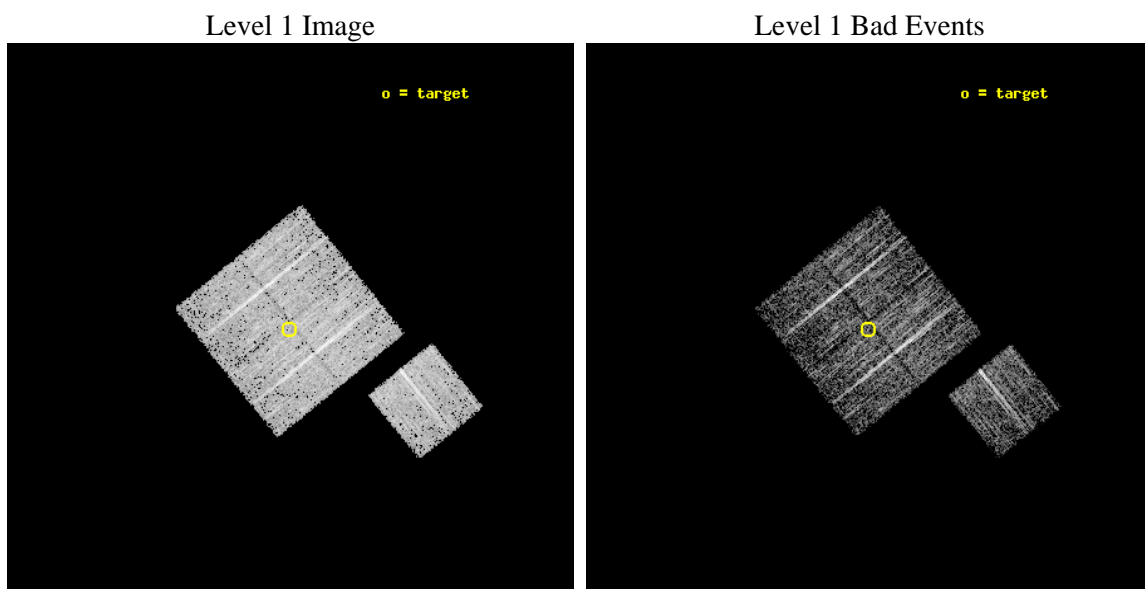
seq_num	900260	Sequence number
obs_id	3660	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F66	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	219.536665	Observer's specified target RA [deg]
dec_targ	34.271694	Observer's specified target Dec [deg]
ra_nom	219.53403149343	Nominal RA [deg]
dec_nom	34.275710651498	Nominal Dec [deg]
roll_nom	141.01019893446	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4671.2447080016	Sum of GTIs [s]
livetime	4610.2114569712	Livetime [s]
ontime0	4674.262558192	Sum of GTIs [s]
ontime1	4674.3035981953	Sum of GTIs [s]
ontime2	4674.3446381986	Sum of GTIs [s]
ontime3	4671.2447080016	Sum of GTIs [s]
ontime6	4674.2215181887	Sum of GTIs [s]
l2events	9579	Number of level 2 events



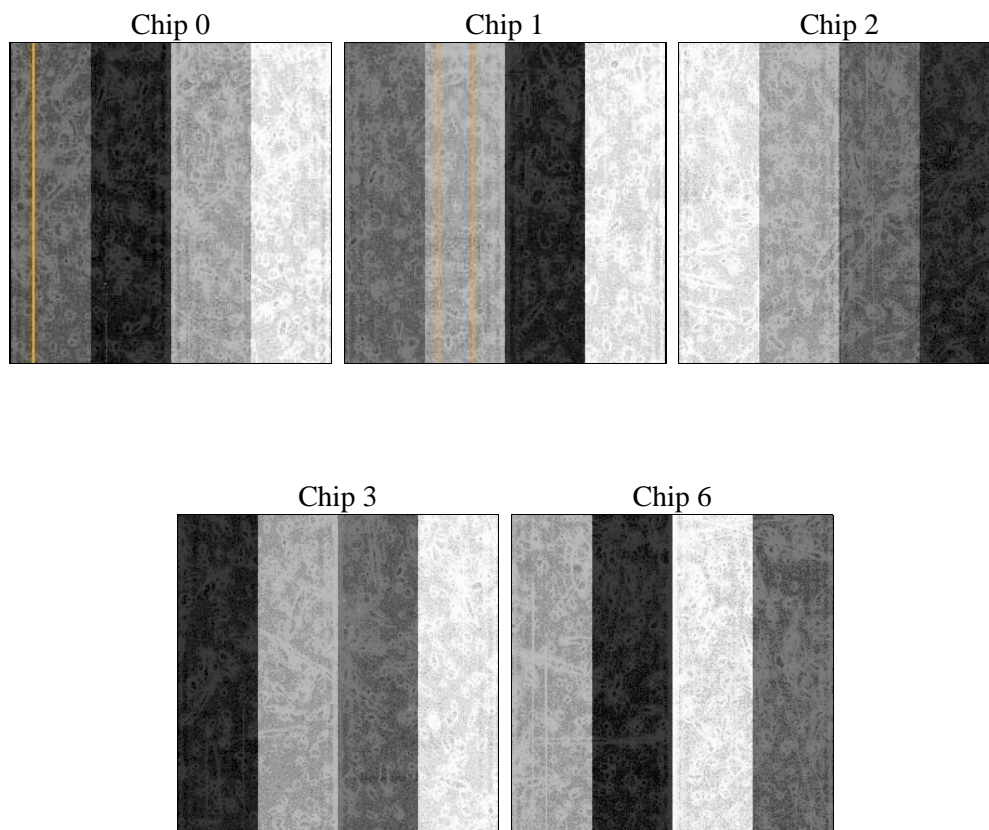
## 2 OBI

### 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	4671.2447080016	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4674.262558192	Sum of GTIs [s]
date	2012-10-26T00:12:09	Date and time of file creation	ontime1	4674.3035981953	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4674.3446381986	Sum of GTIs [s]
			ontime3	4671.2447080016	Sum of GTIs [s]
			ontime6	4674.2215181887	Sum of GTIs [s]
			l1events	117280	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23627	20827	26608	23106	23112
rejected events	21303	18389	24335	20829	20810
rejected %	90%	88%	91%	90%	90%

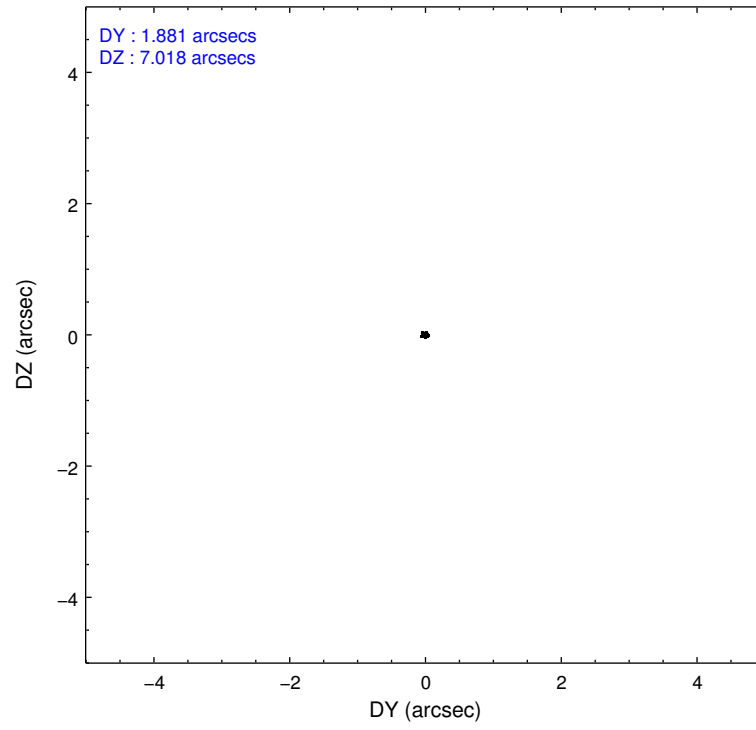
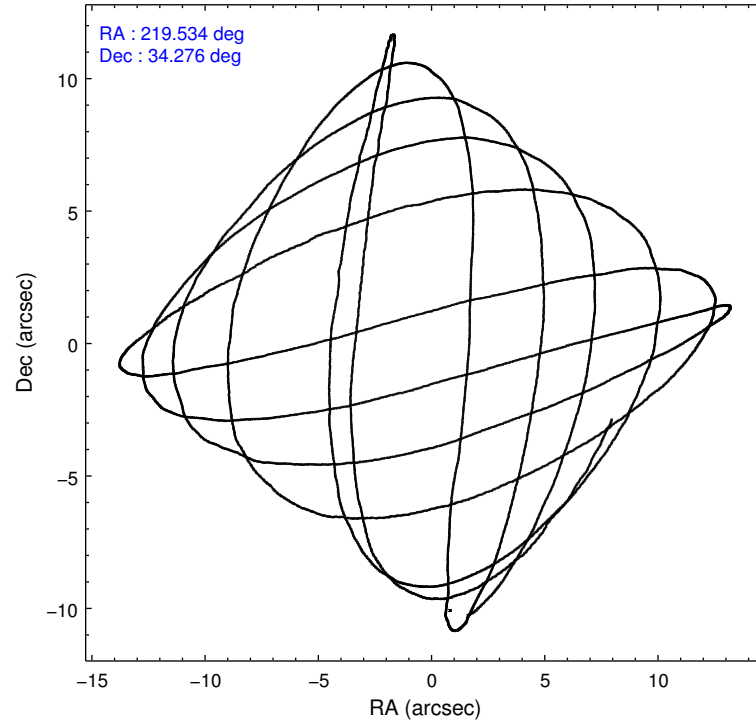
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	845	876	888	918	840
	3%	4%	3%	3%	3%
grade 1 events	11	7	17	13	6
	0%	0%	0%	0%	0%
grade 2 events	546	505	481	449	474
	2%	2%	1%	1%	2%
grade 3 events	280	284	252	244	267
	1%	1%	0%	1%	1%
grade 4 events	255	283	274	248	253
	1%	1%	1%	1%	1%
grade 5 events	706	716	652	790	757
	2%	3%	2%	3%	3%
grade 6 events	401	493	380	420	472
	1%	2%	1%	1%	2%
grade 7 events	20583	17663	23664	20024	20043
	87%	84%	88%	86%	86%

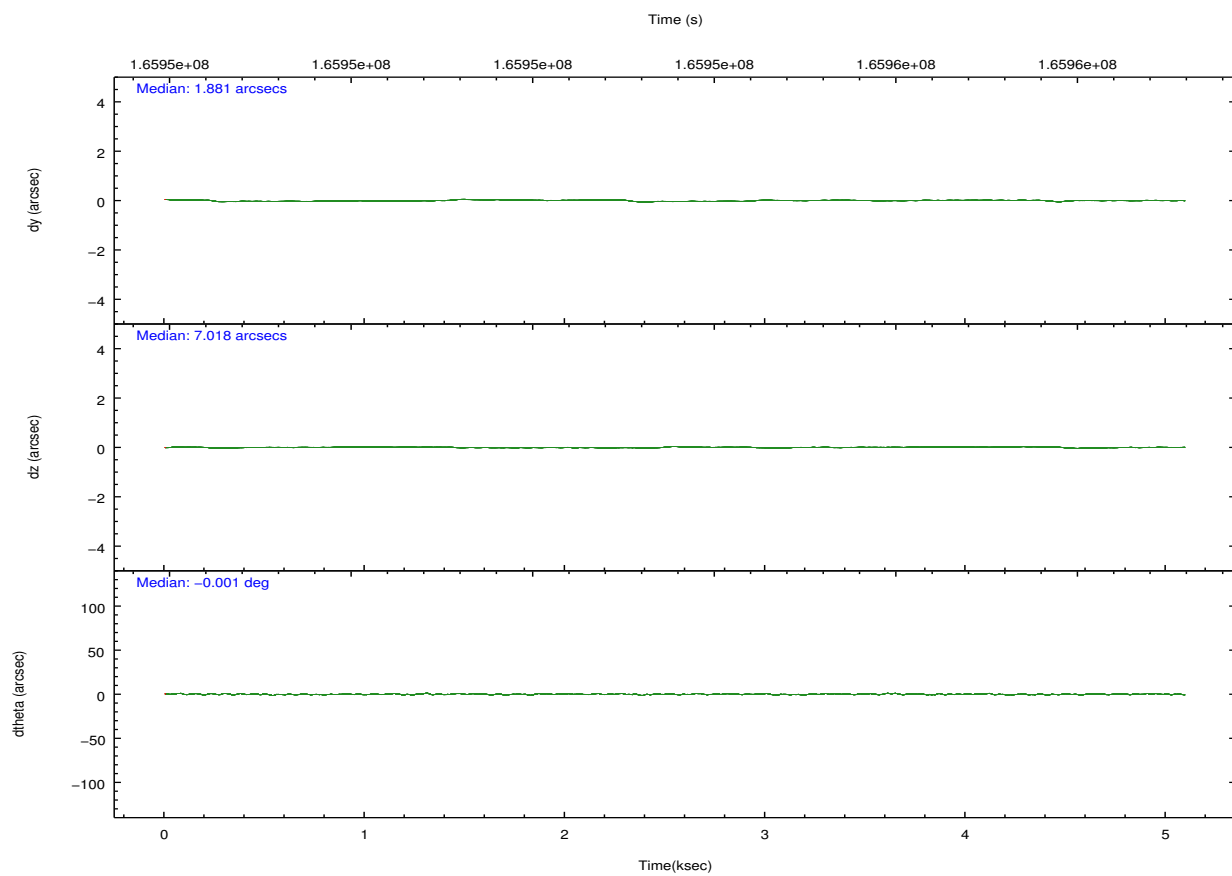
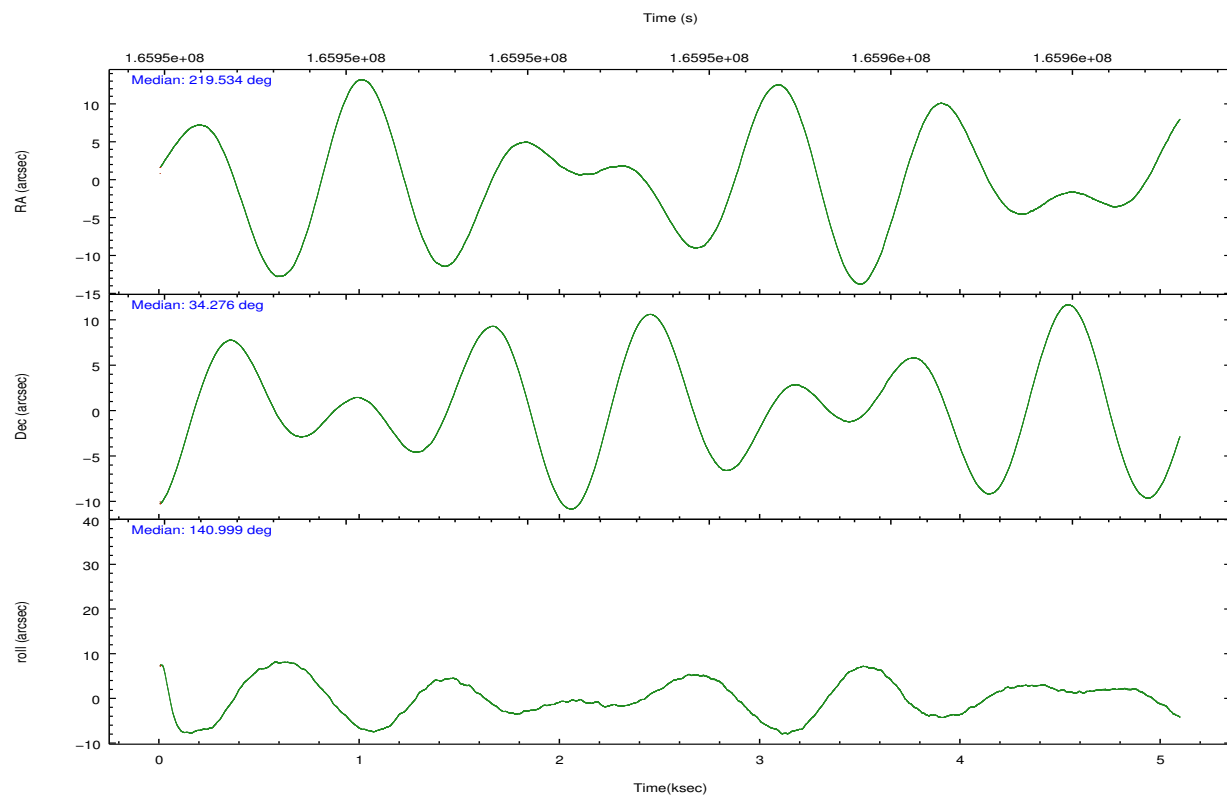


## 2.2 Compared Parameters

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	219.566780	219.5340314934276	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.271610	34.27571065149846	Alternating exposures requested	N	N
[deg] Pointing Roll	140.783041	141.0101989344578	[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)	165951432.184000	165951055.72359			
Observation start date	2003-04-05T17:36:08	2003-04-05T17:30:55			
[s] Observation end time (MET)	165956332.184000	165956465.67381			
Observation end date	2003-04-05T18:57:48	2003-04-05T19:01:05			
Read mode	TIMED	TIMED			

## 2.3 Aspect



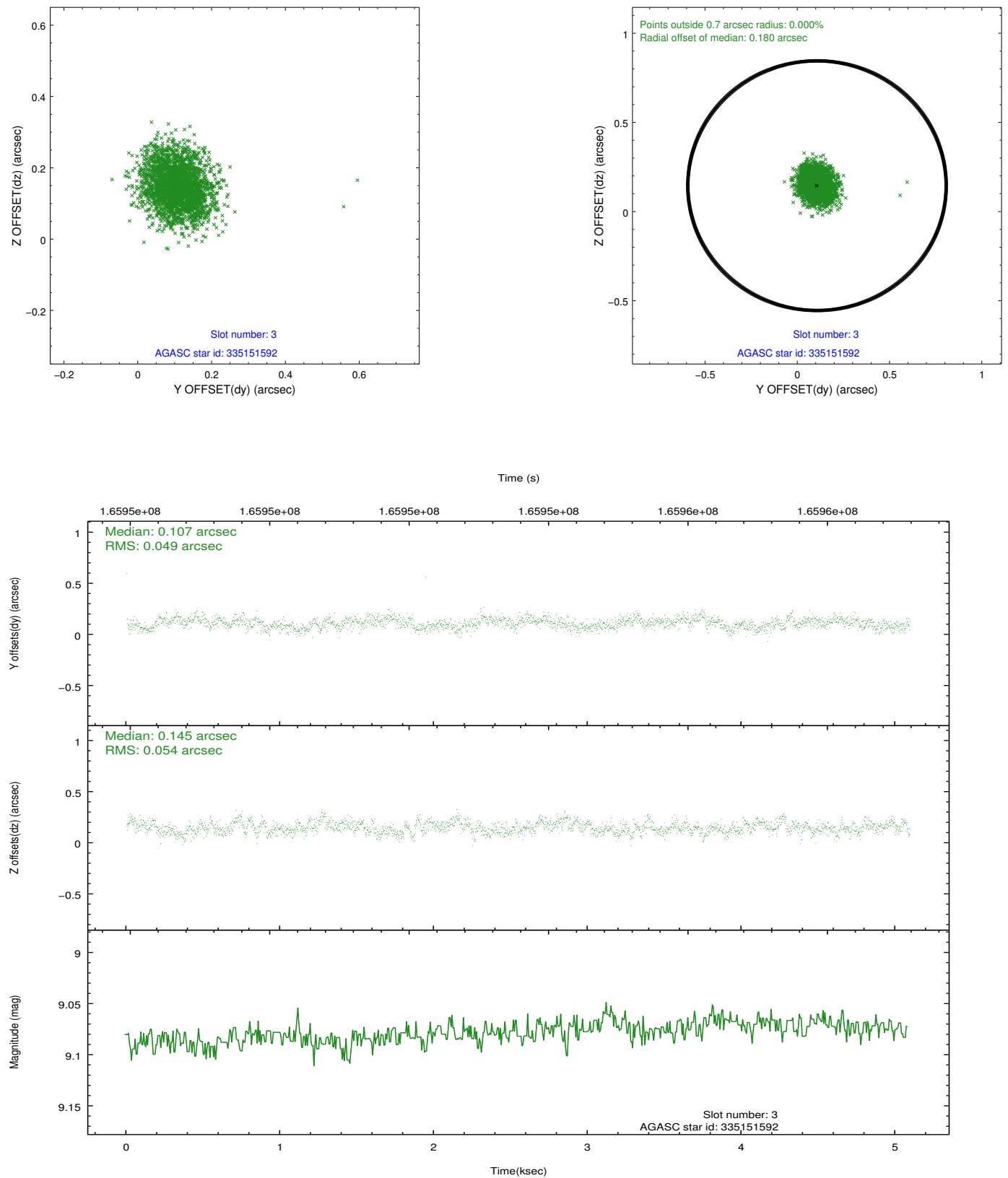


### Slot Statistics

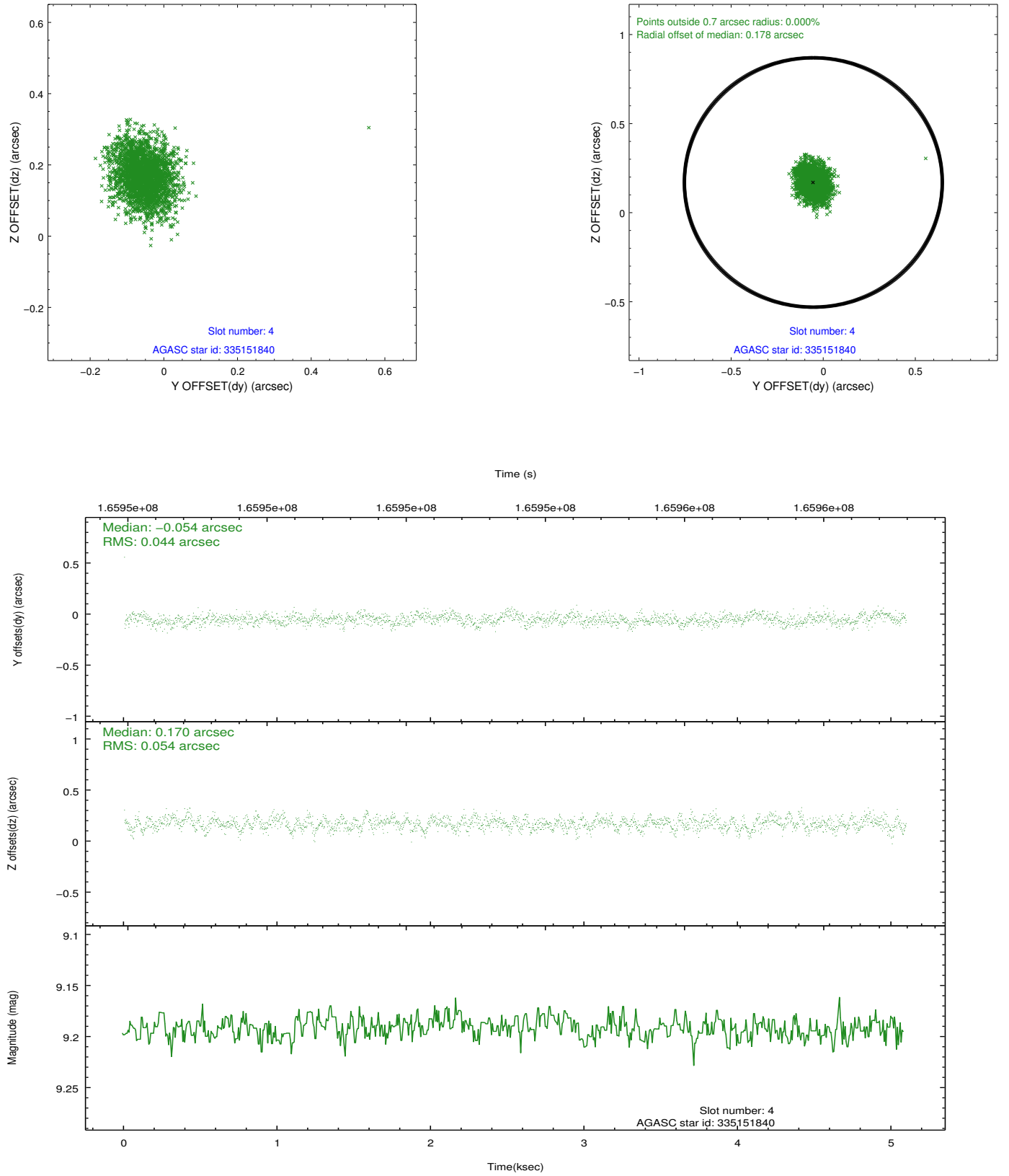
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1243	0.009	0.010	0.006	0.011	0.000000	0.000000	937.93	-830.42
1	FID	ACIS-I-5	7.24	1241	-0.075	0.054	0.006	0.010	0.000000	0.000000	-1809.54	1066.58
2	FID	ACIS-I-6	7.27	1243	-0.026	0.007	0.006	0.011	0.000000	0.000000	402.22	1712.34
3	GUIDE	335151592	9.08	2484	0.107	0.145	0.076	0.124	220.179561	34.279746	-1389.60	-1179.40
4	GUIDE	335151840	9.19	2482	-0.054	0.170	0.073	0.119	220.238613	34.430640	-1179.39	-1710.33
5	GUIDE	335152784	7.24	2485	-0.031	-0.225	0.054	0.084	219.280617	33.678221	-686.41	2195.30
6	GUIDE	335155824	8.93	2483	0.030	0.002	0.076	0.117	219.689900	34.035435	-822.01	427.21
7	GUIDE	335157088	9.10	2484	-0.053	-0.094	0.080	0.128	219.274029	33.726909	-560.46	2072.62

## 2.4 Star Slots

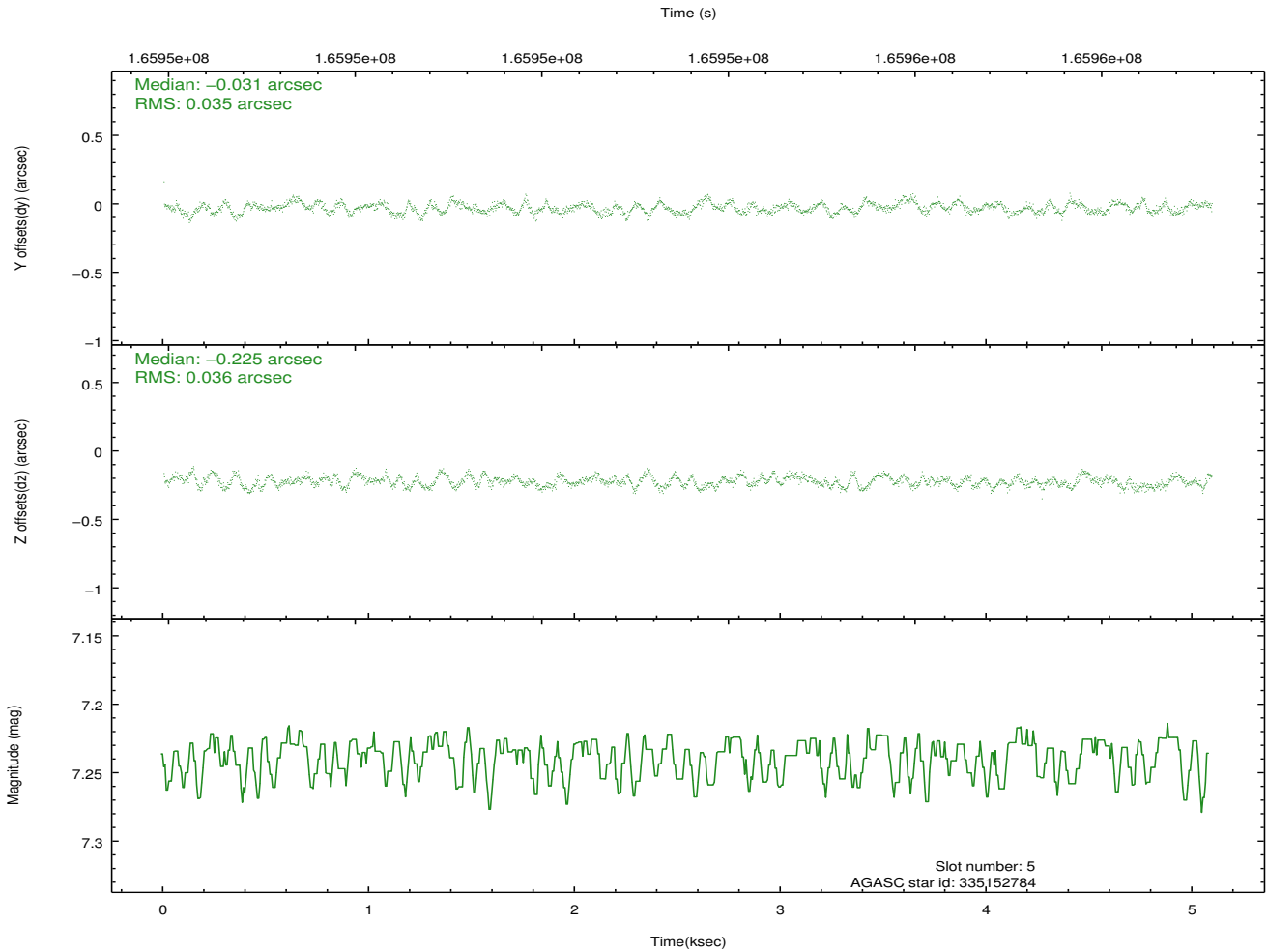
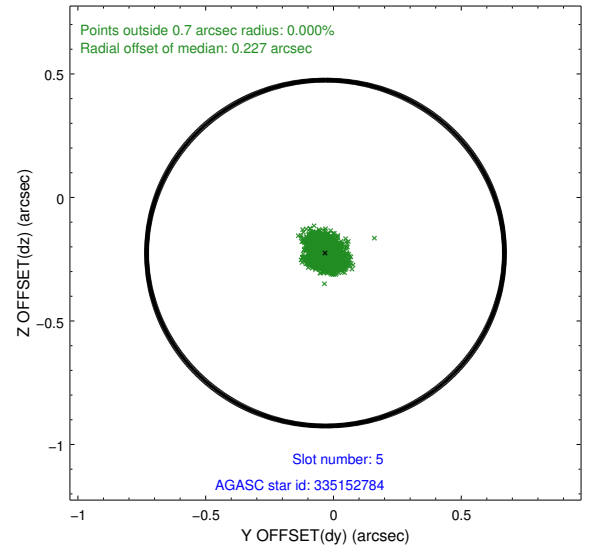
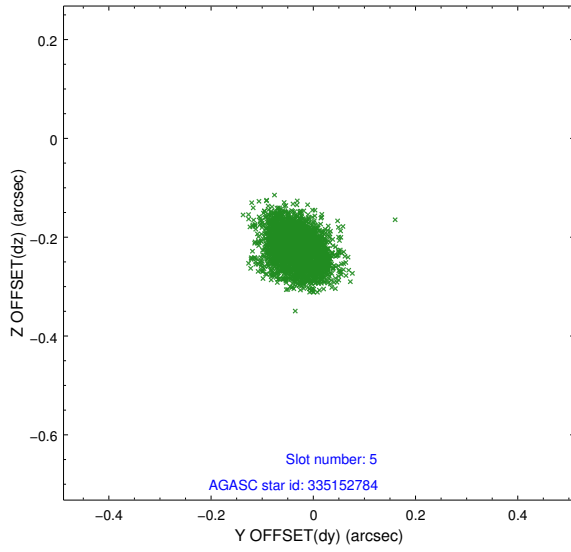
### 2.4.1 Slot 3



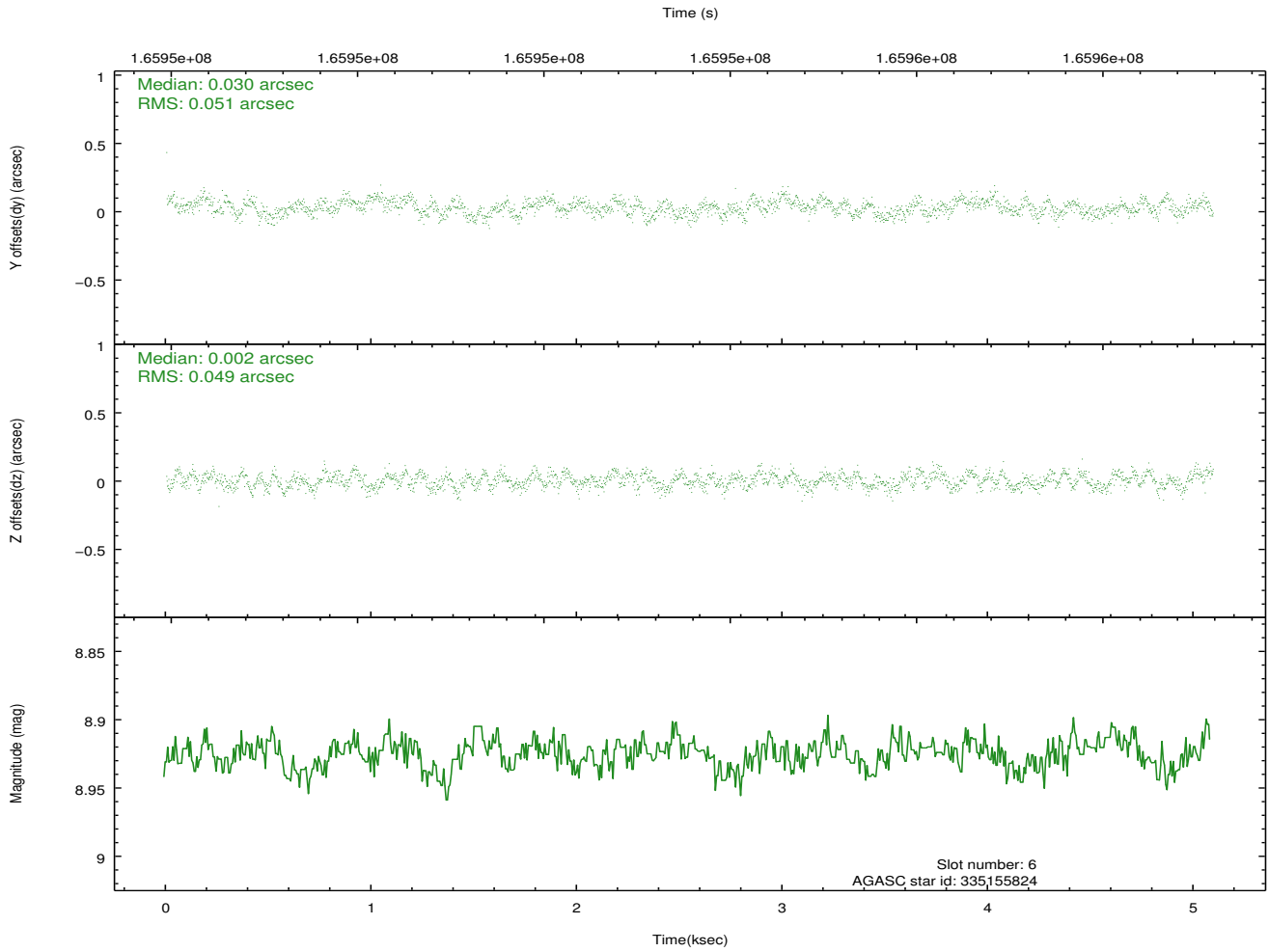
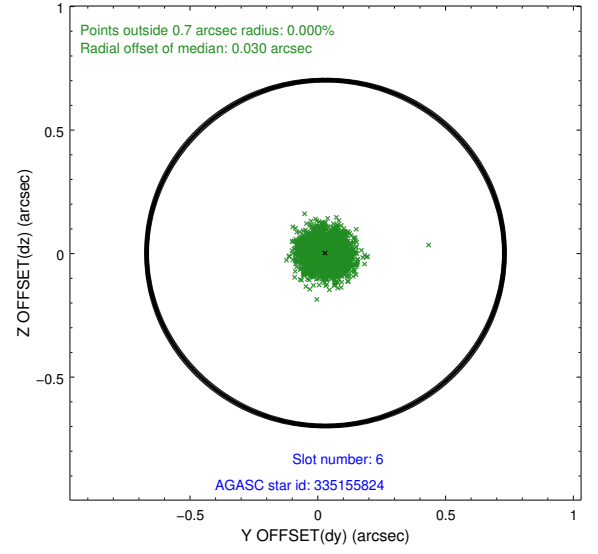
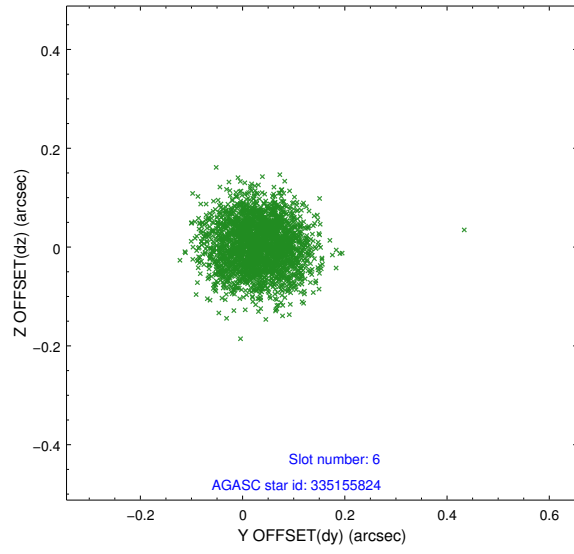
## 2.4.2 Slot 4



### 2.4.3 Slot 5

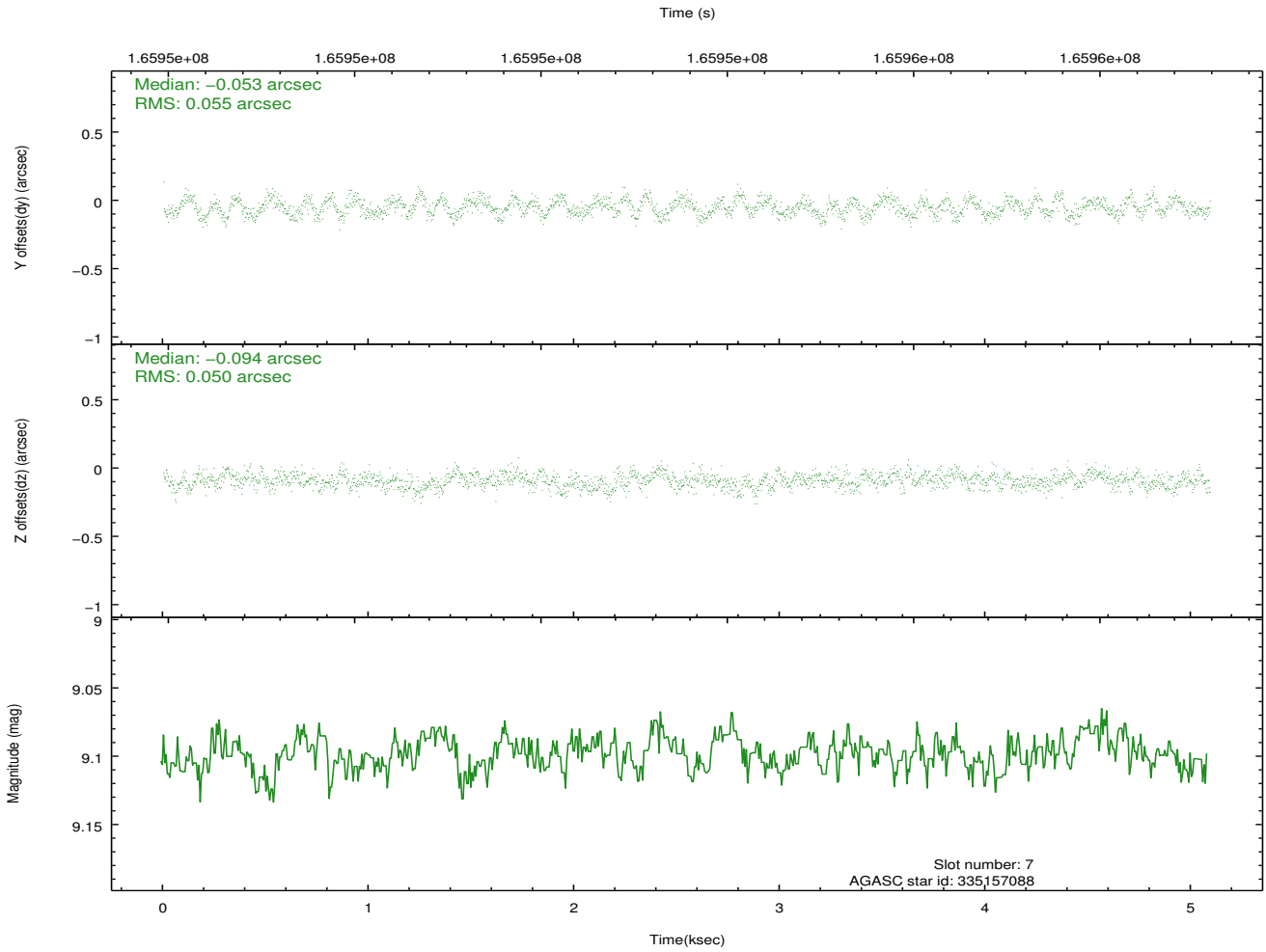
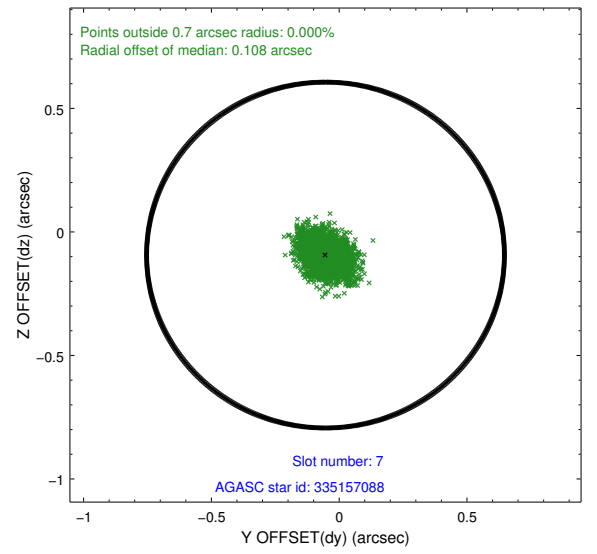
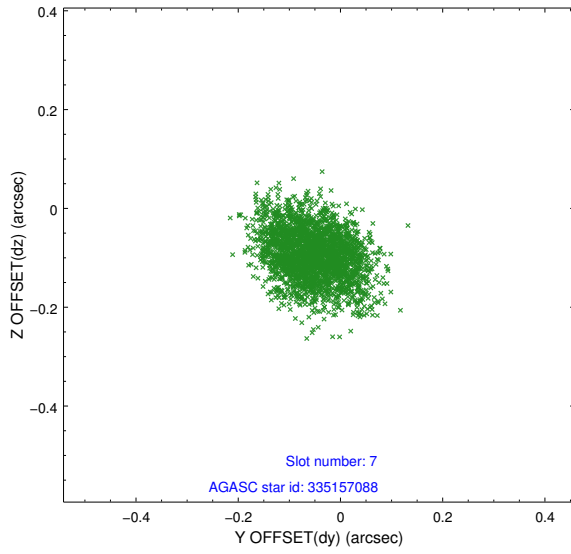


## 2.4.4 Slot 6



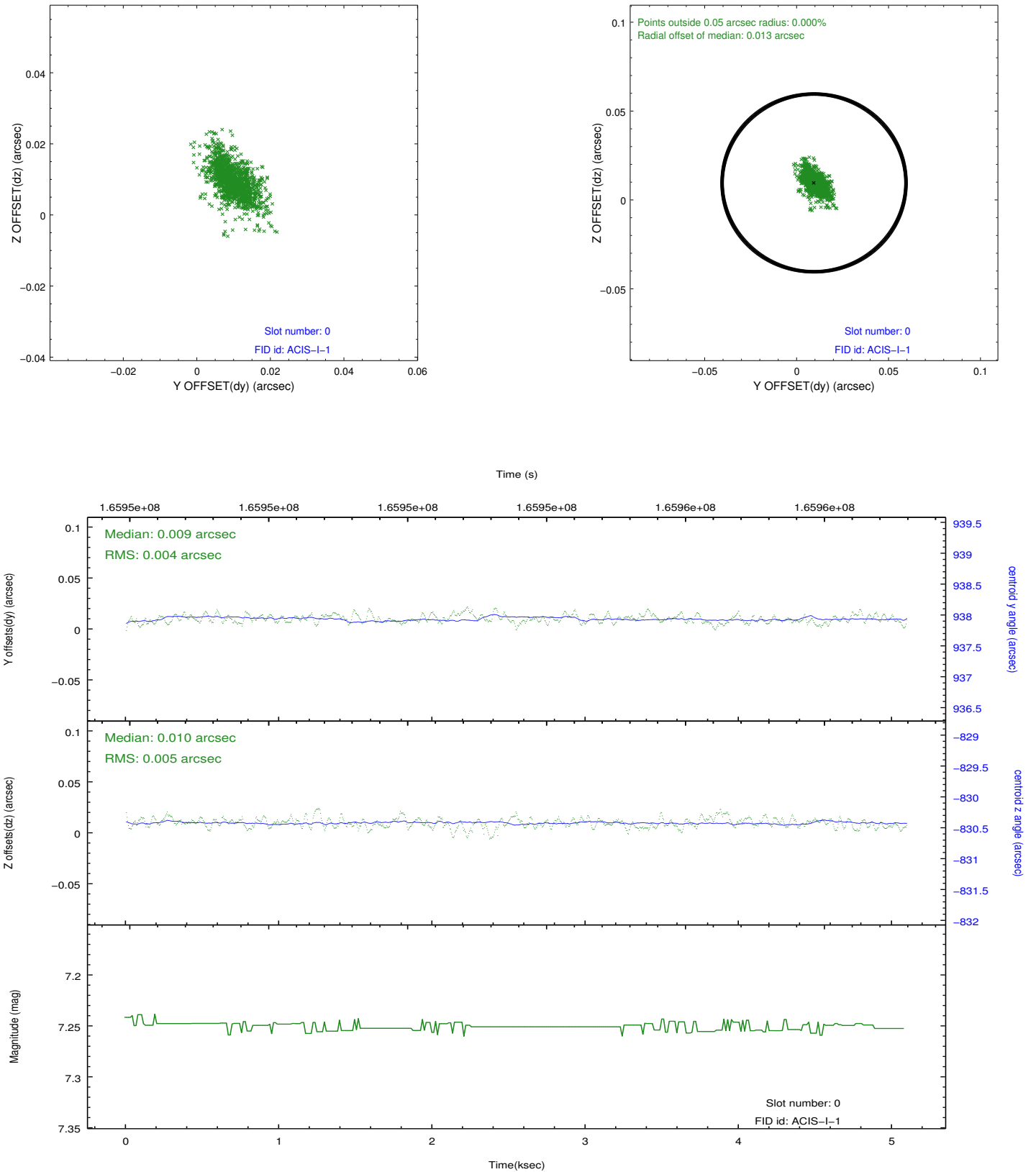


## 2.4.5 Slot 7

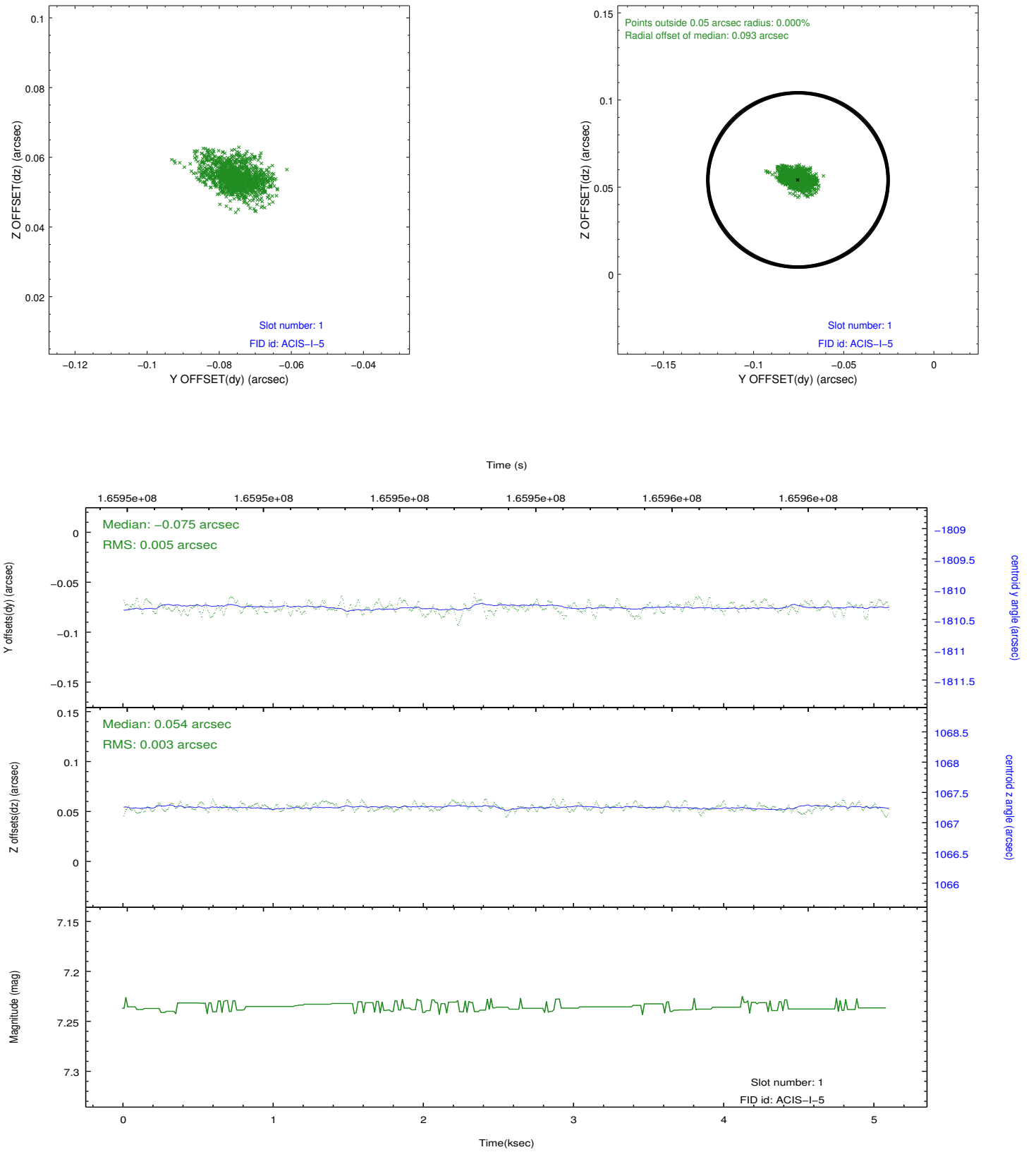


## 2.5 FID Slots

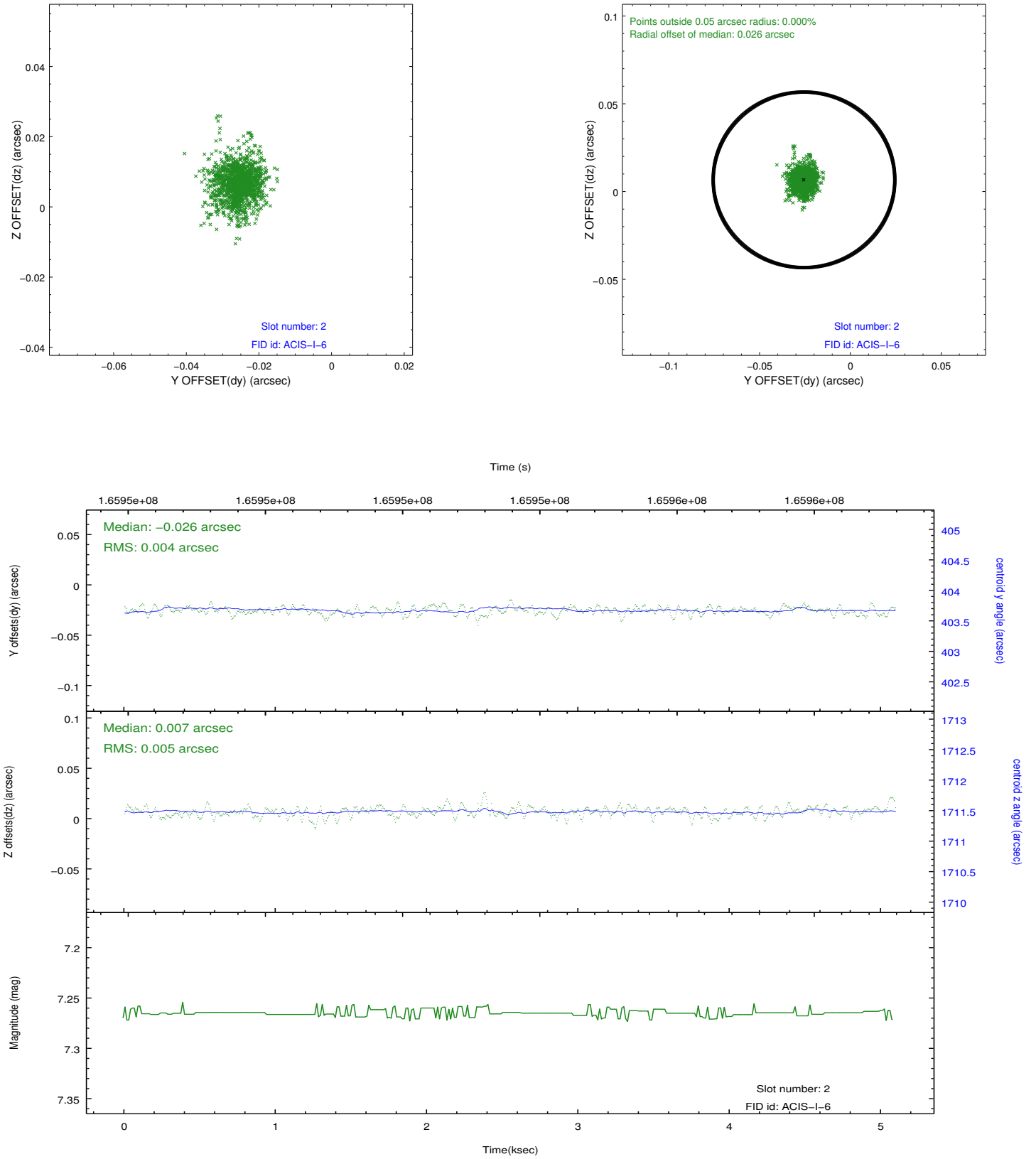
### 2.5.1 Slot 0



## 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	4.672

### **A.2 Comments**