

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2541 - L2 Version 3  
Chandra X-Ray Center

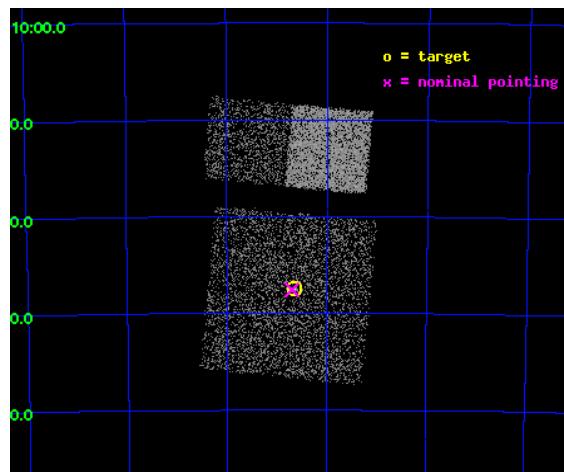
L2 Processing Date : Oct 14 2012

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# 1 Front

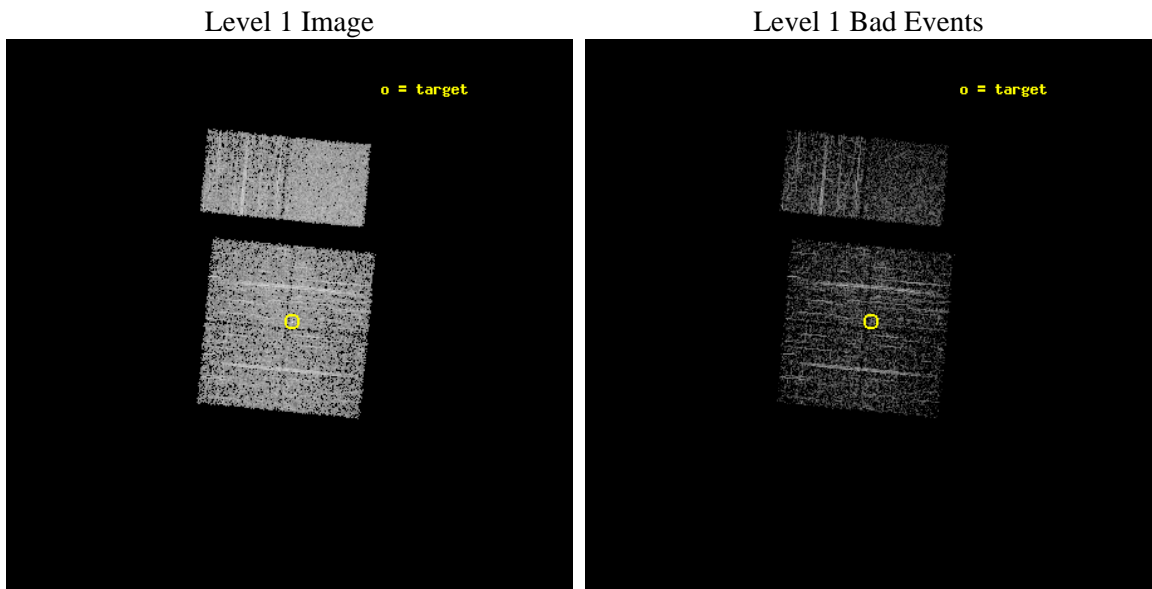
seq_num	200149	Sequence number
obs_id	2541	Observation id
title	ON THE ORIGIN OF THE X-RAY EMISSION IN LATE B-TYPE STARS	Proposal
observer	Dr. Nuria Huelamo	Principal investigator
object	HD1685	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.1625	Observer's specified target RA [deg]
dec_targ	-69.624917	Observer's specified target Dec [deg]
ra_nom	5.1753412281593	Nominal RA [deg]
dec_nom	-69.626293752379	Nominal Dec [deg]
roll_nom	5.4516599887524	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2364.7622720897	Sum of GTIs [s]
livetime	2334.8182283116	Livetime [s]
ontime0	2364.6391521096	Sum of GTIs [s]
ontime1	2364.6801920831	Sum of GTIs [s]
ontime2	2364.7212320864	Sum of GTIs [s]
ontime3	2364.7622720897	Sum of GTIs [s]
ontime6	2364.7999911904	Sum of GTIs [s]
ontime7	2364.7999911904	Sum of GTIs [s]
l2events	15323	Number of level 2 events



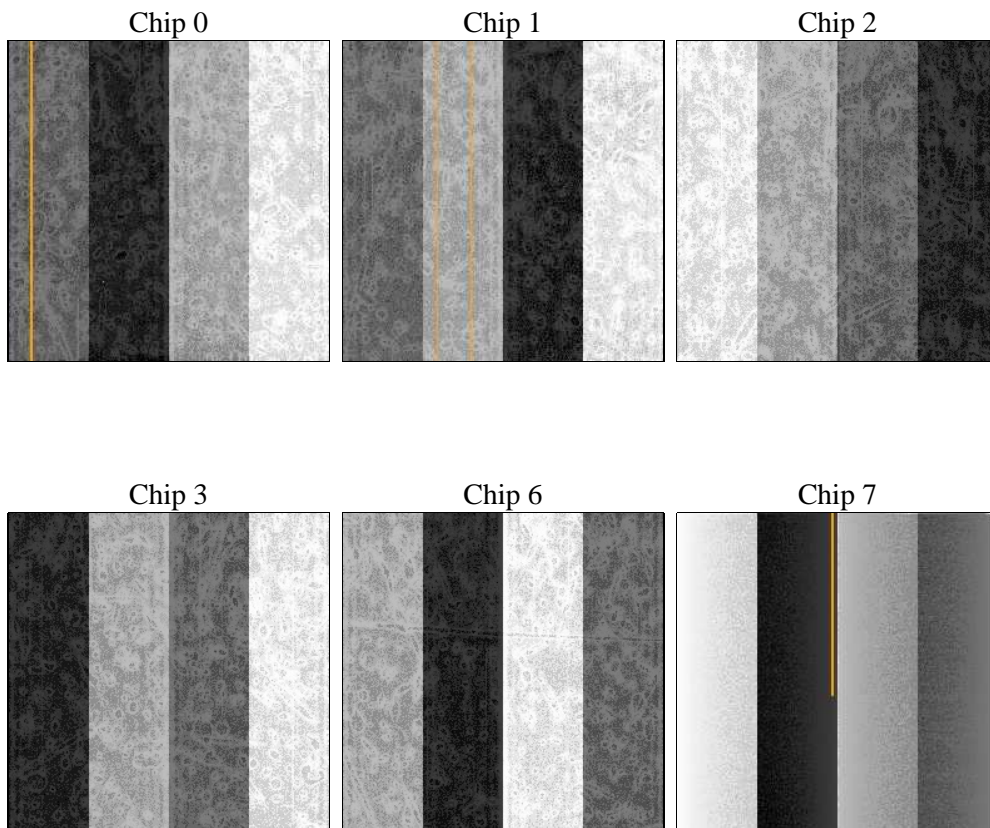
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	2400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2364.7622720897	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	2364.6391521096	Sum of GTIs [s]
date	2012-10-14T18:49:58	Date and time of file creation	ontime1	2364.6801920831	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2364.7212320864	Sum of GTIs [s]
			ontime3	2364.7622720897	Sum of GTIs [s]
			ontime6	2364.7999911904	Sum of GTIs [s]
			ontime7	2364.7999911904	Sum of GTIs [s]
			l1events	91612	Number of level 1 events

### 2.1.4 Events

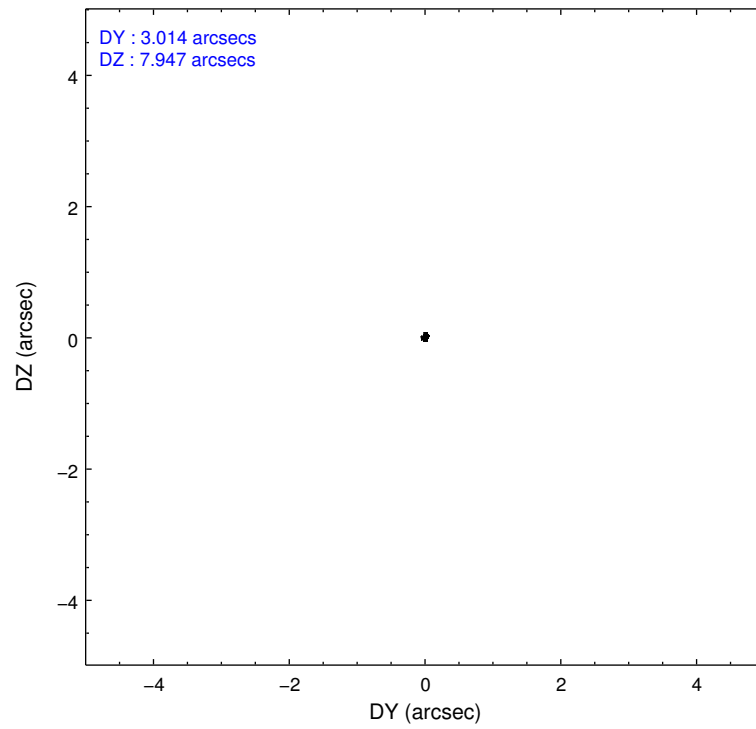
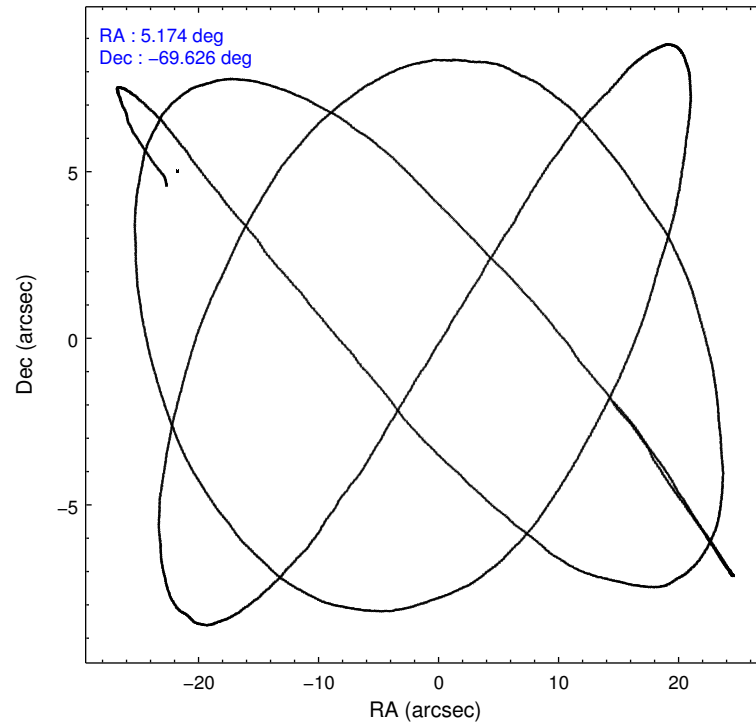
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	13694	12401	14933	15248	16397	18939
rejected events	11842	10630	13193	13459	14681	11109
rejected %	86%	85%	88%	88%	89%	58%

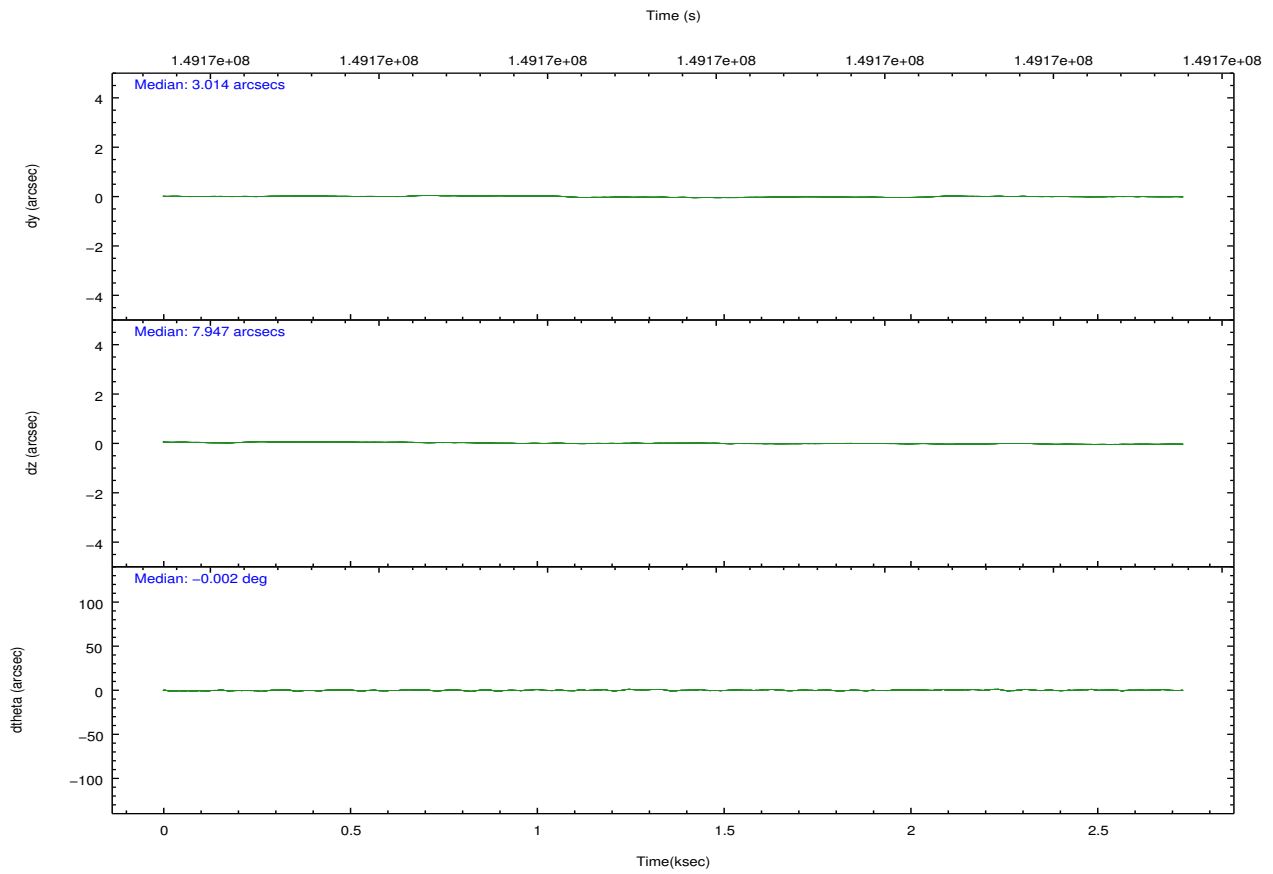
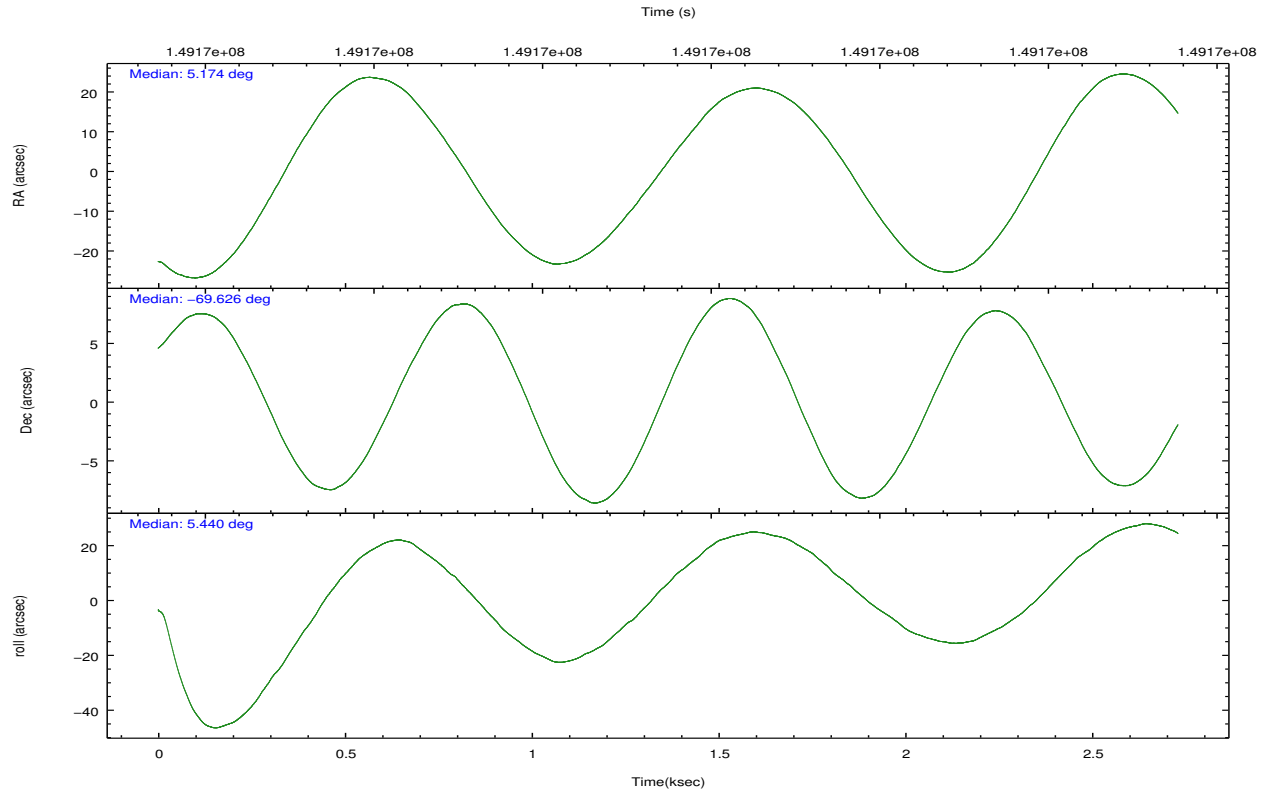
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	855	749	826	847	694	759
	6%	6%	5%	5%	4%	4%
grade 1 events	7	3	8	18	8	23
	0%	0%	0%	0%	0%	0%
grade 2 events	368	373	362	302	365	1523
	2%	3%	2%	1%	2%	8%
grade 3 events	192	175	148	202	176	680
	1%	1%	0%	1%	1%	3%
grade 4 events	156	149	147	175	167	699
	1%	1%	0%	1%	1%	3%
grade 5 events	597	574	532	577	647	1881
	4%	4%	3%	3%	3%	9%
grade 6 events	283	332	260	268	315	4186
	2%	2%	1%	1%	1%	22%
grade 7 events	11236	10046	12650	12859	14025	9188
	82%	81%	84%	84%	85%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	5.111253	5.175341228159269	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.642274	-69.62629375237924	Alternating exposures requested	N	N
[deg] Pointing Roll	5.182908	5.451659988752362	[s] Primary exposure time	0.000000	3.2
[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)	149167832.184000	149166798.92206			
Observation start date	2002-09-23T11:29:28	2002-09-23T11:13:18			
[s] Observation end time (MET)	149170232.184000	149170951.70973			
Observation end date	2002-09-23T12:09:28	2002-09-23T12:22:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect





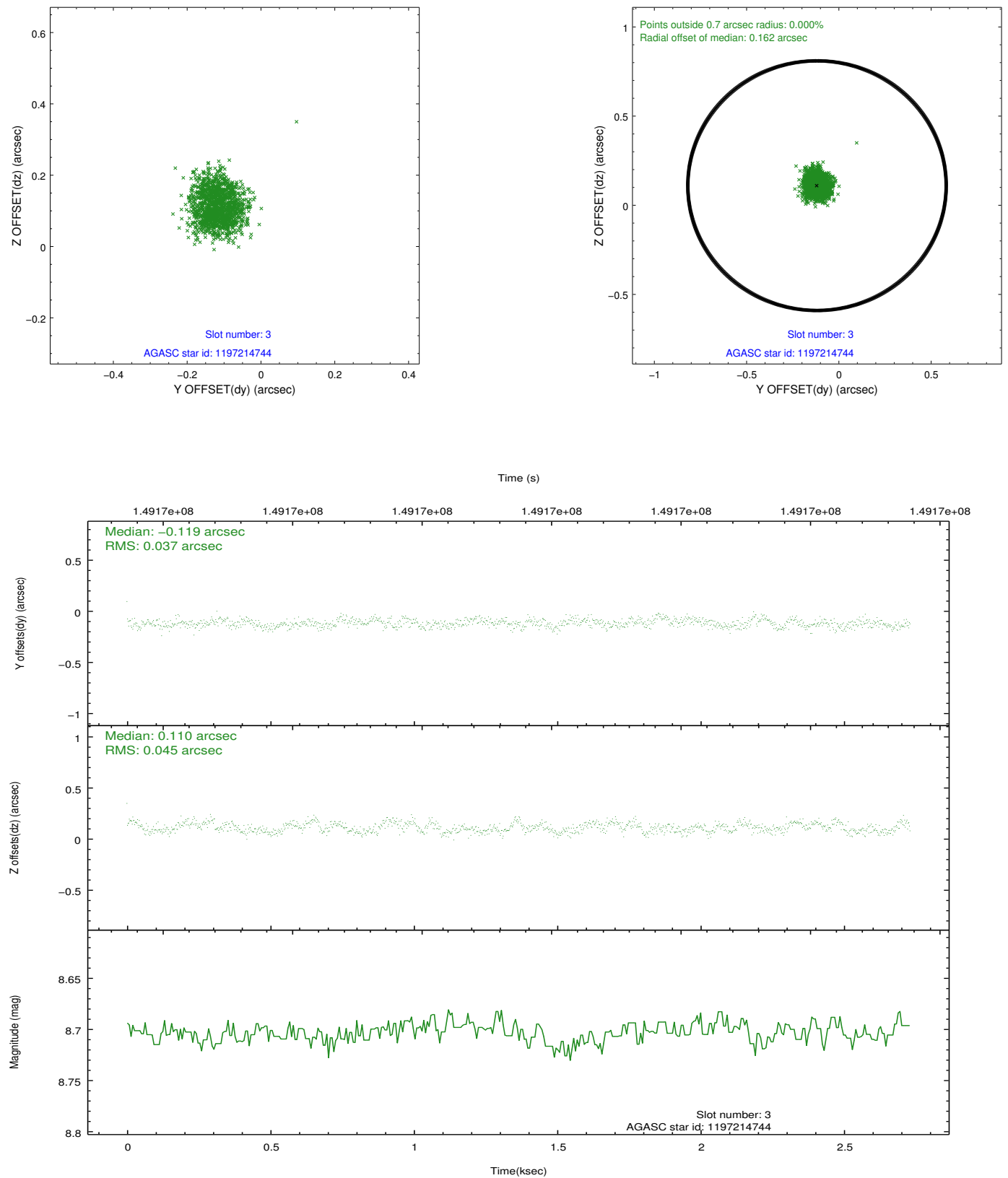
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	666	-0.007	0.045	0.006	0.010	0.000000	0.000000	936.77	-831.33
1	FID	ACIS-I-5	7.24	666	-0.071	0.045	0.006	0.011	0.000000	0.000000	-1810.07	1065.00
2	FID	ACIS-I-6	7.26	666	-0.013	-0.020	0.007	0.011	0.000000	0.000000	399.77	1712.10
3	GUIDE	1197214744	8.70	1333	-0.119	0.110	0.062	0.097	3.889100	-69.751477	-1552.03	-269.39
4	GUIDE	1197222968	8.48	1332	-0.033	-0.121	0.077	0.128	4.511611	-69.061766	-580.25	2146.73
5	GUIDE	1197213432	9.30	1333	0.179	0.169	0.092	0.146	7.085611	-69.674512	2445.28	-376.13
6	GUIDE	1197218552	9.37	1323	0.208	-0.139	0.089	0.145	6.393797	-69.933296	1485.05	-1203.22
7	GUIDE	1197615136	9.87	1332	-0.245	-0.020	0.103	0.162	3.360806	-70.250565	-2318.46	-2020.37

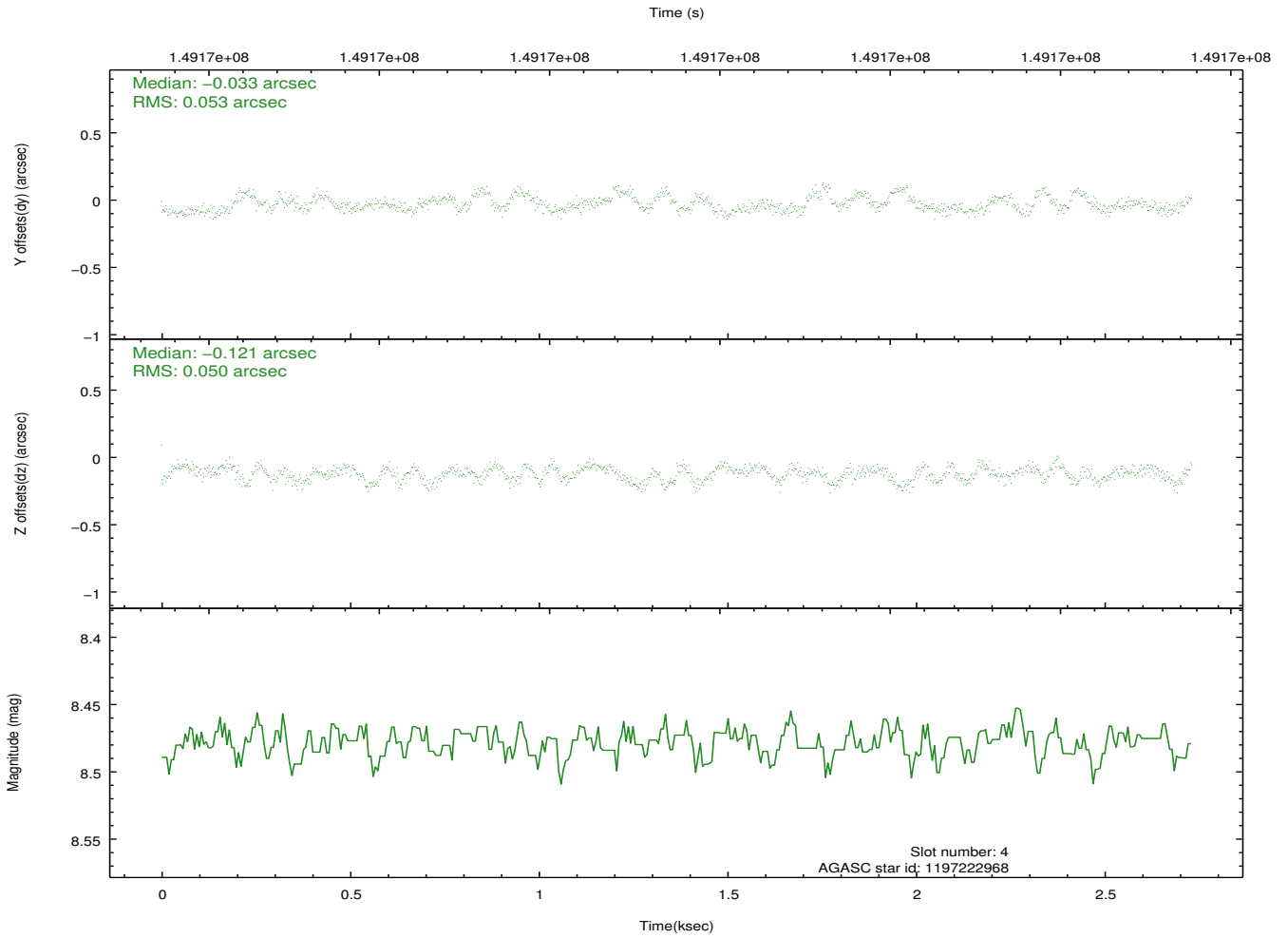
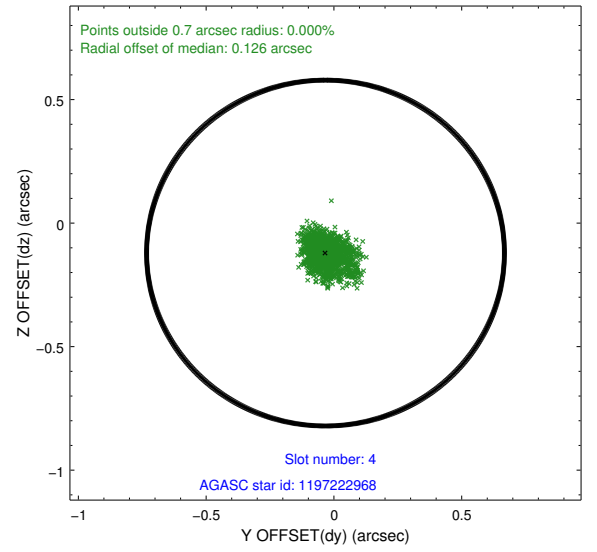
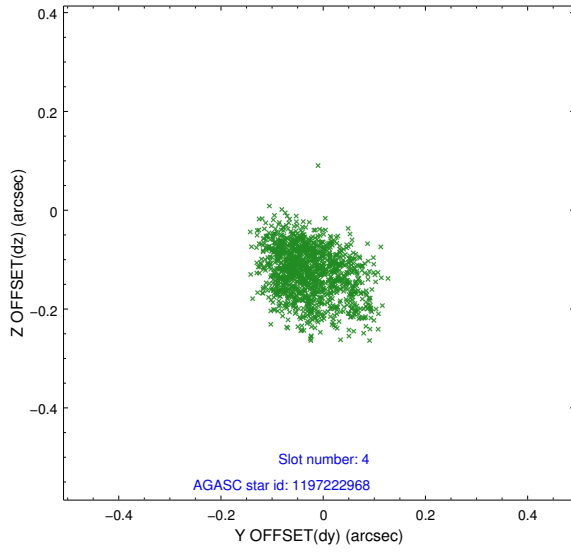


## 2.4 Star Slots

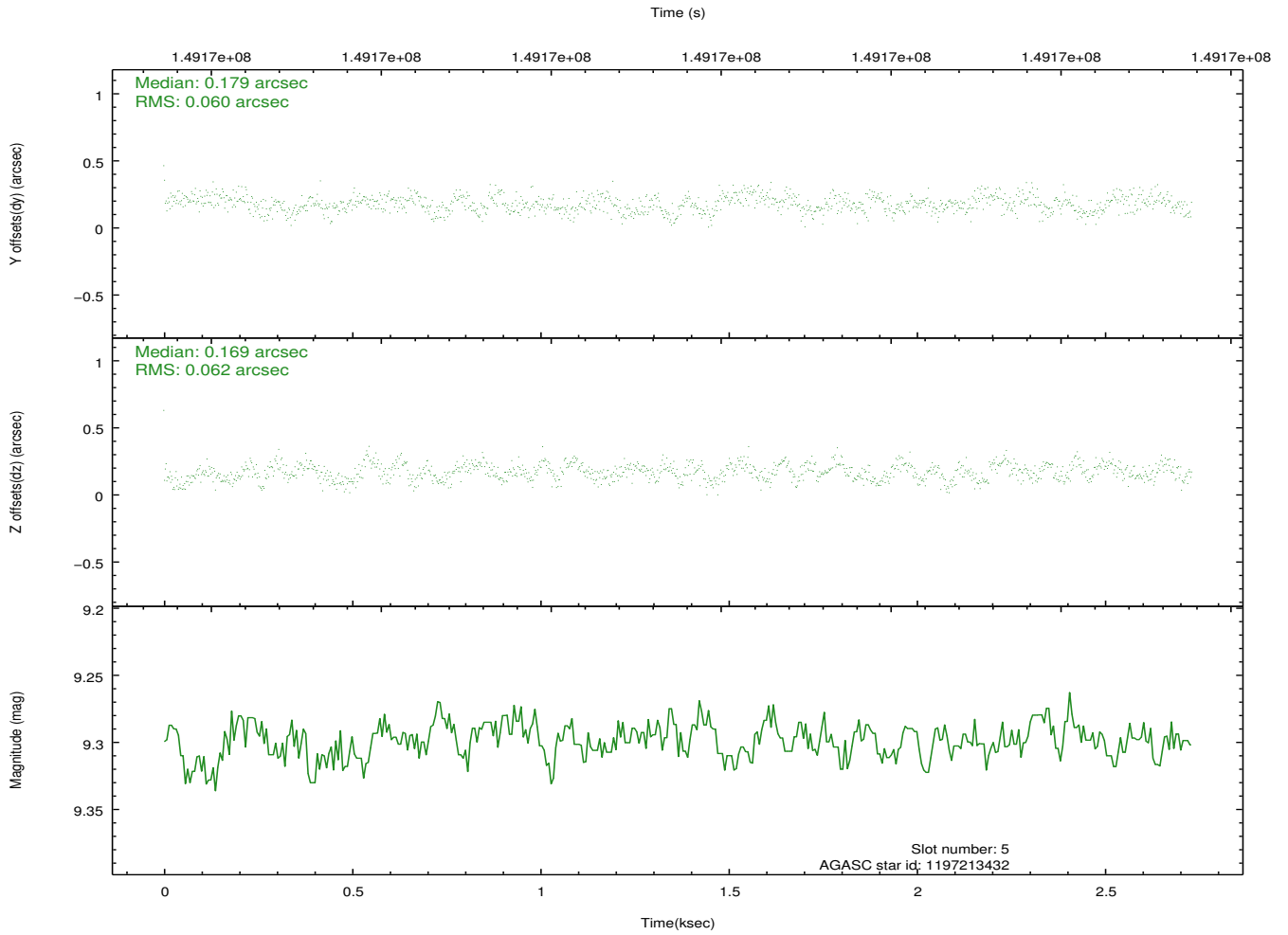
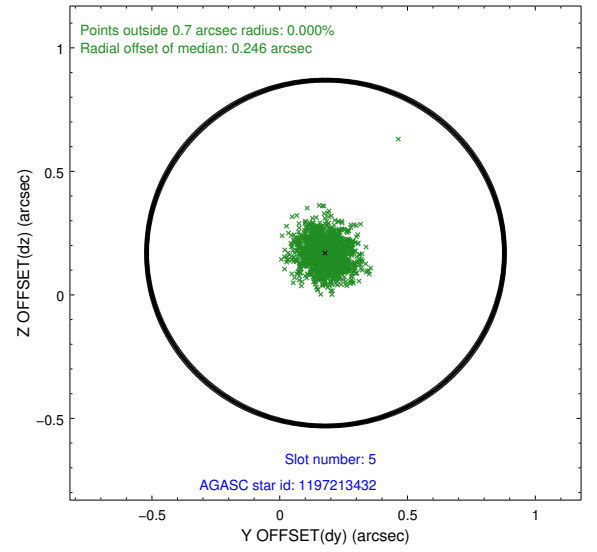
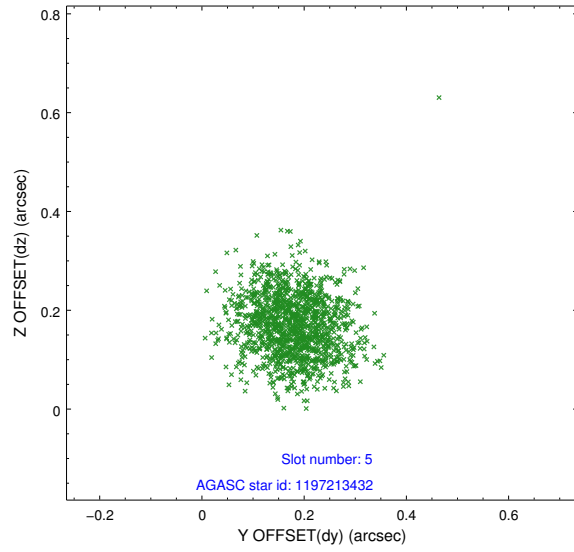
### 2.4.1 Slot 3



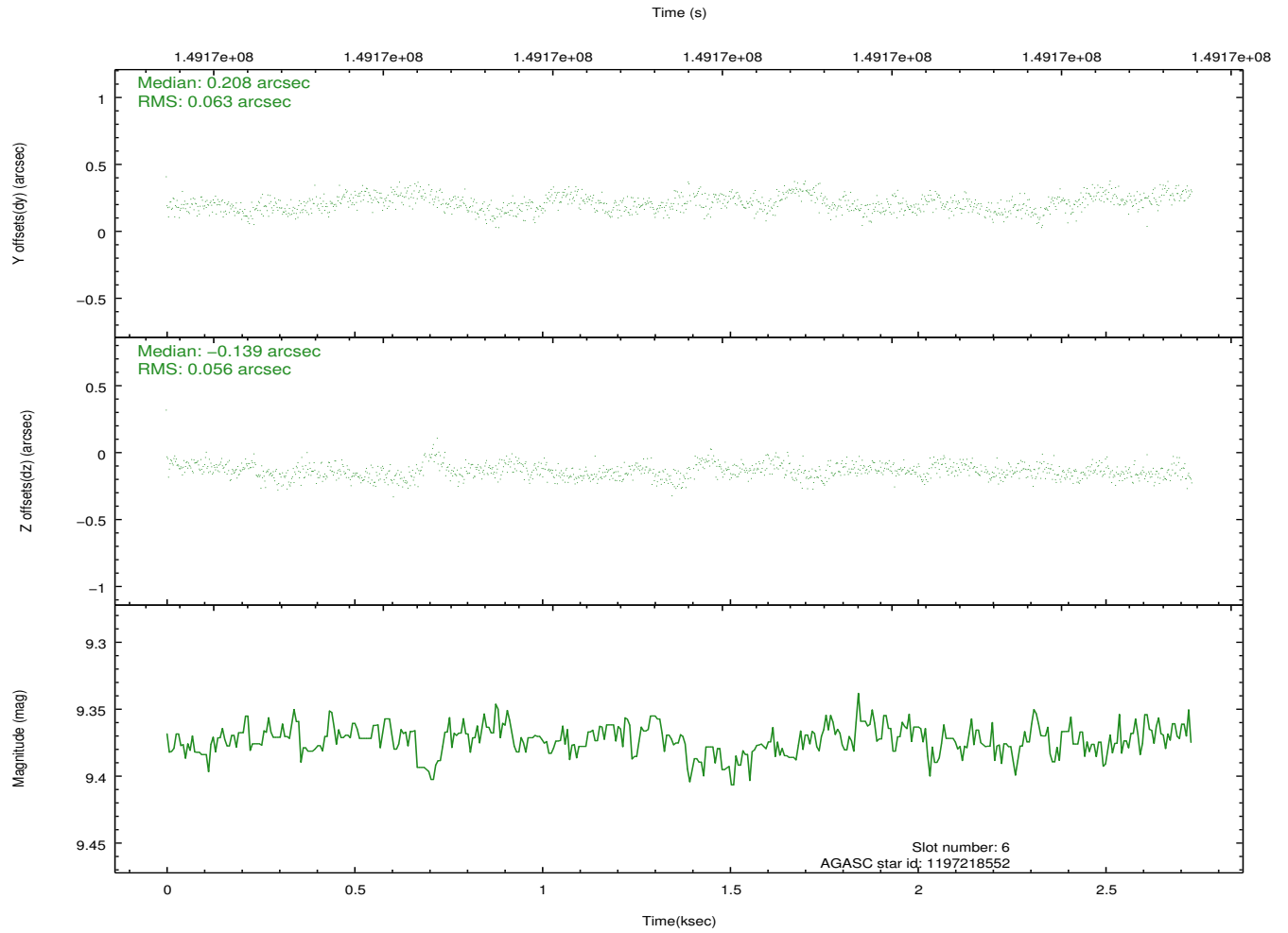
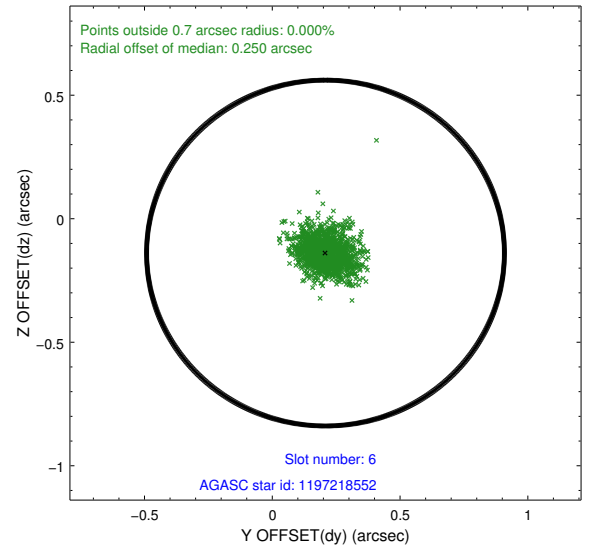
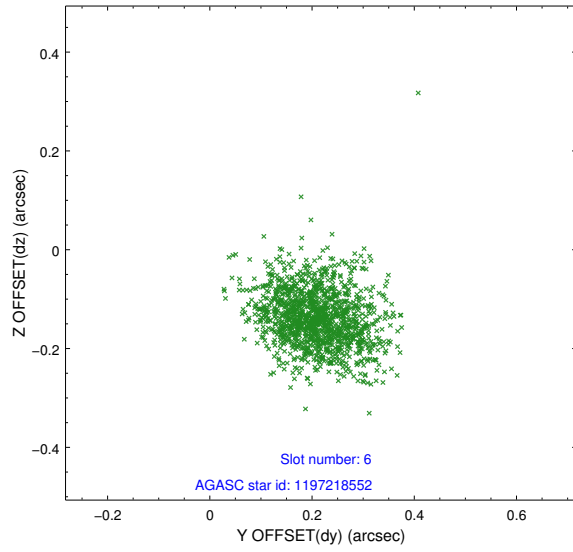
## 2.4.2 Slot 4



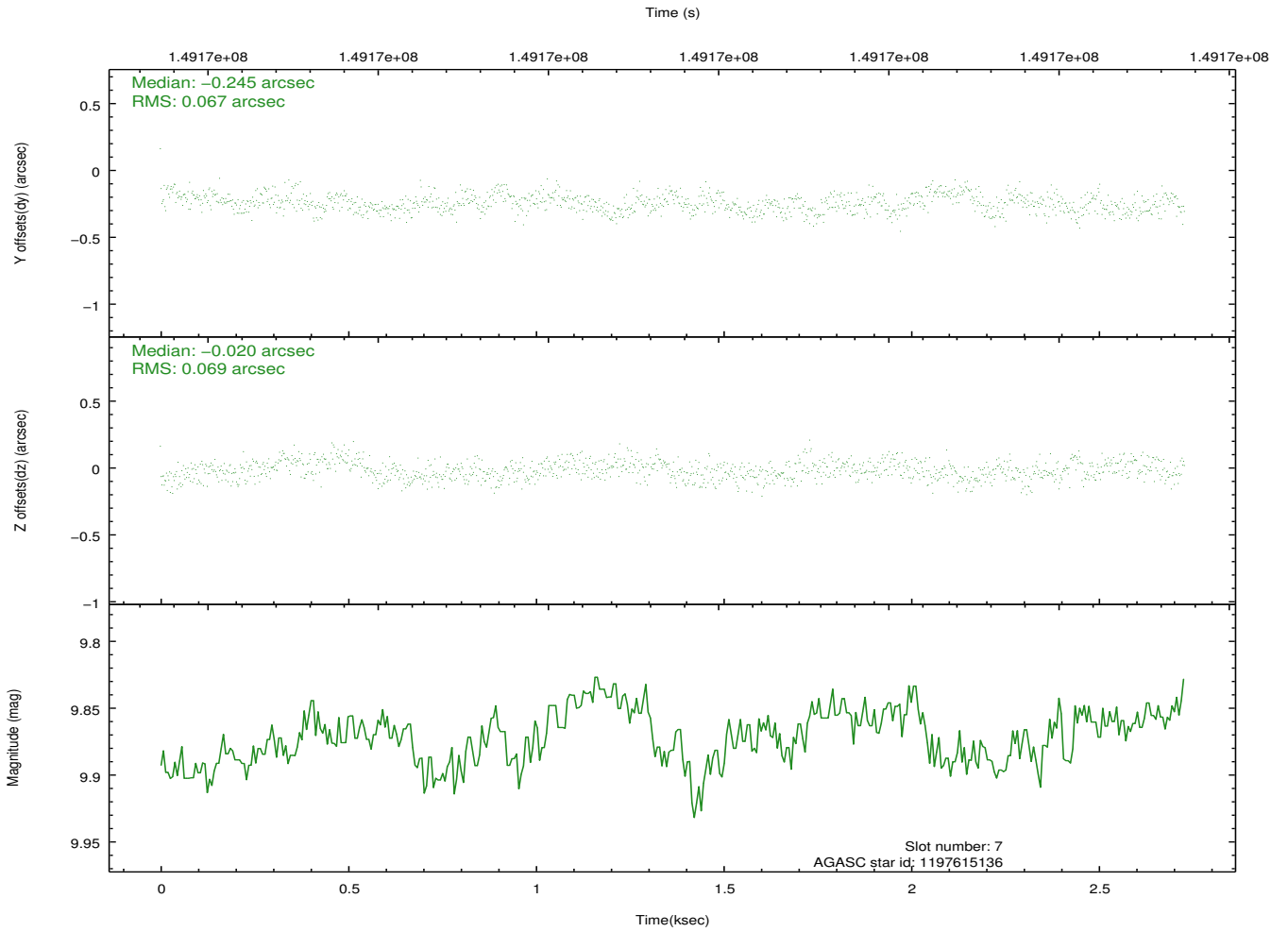
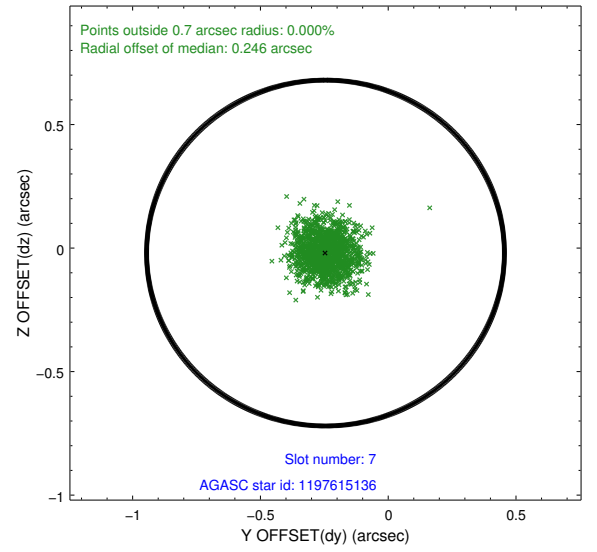
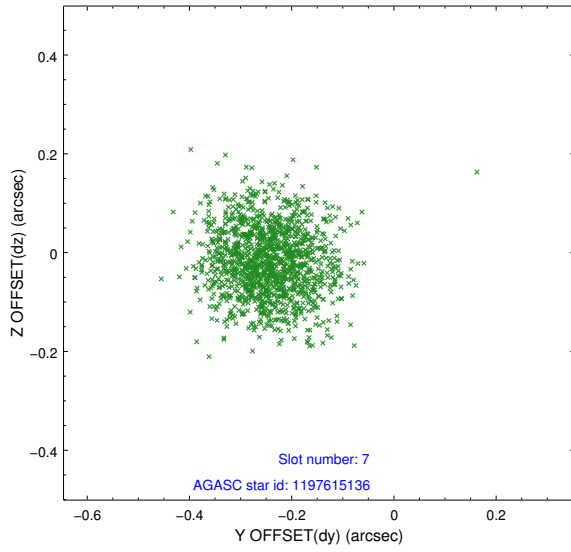
### 2.4.3 Slot 5



## 2.4.4 Slot 6

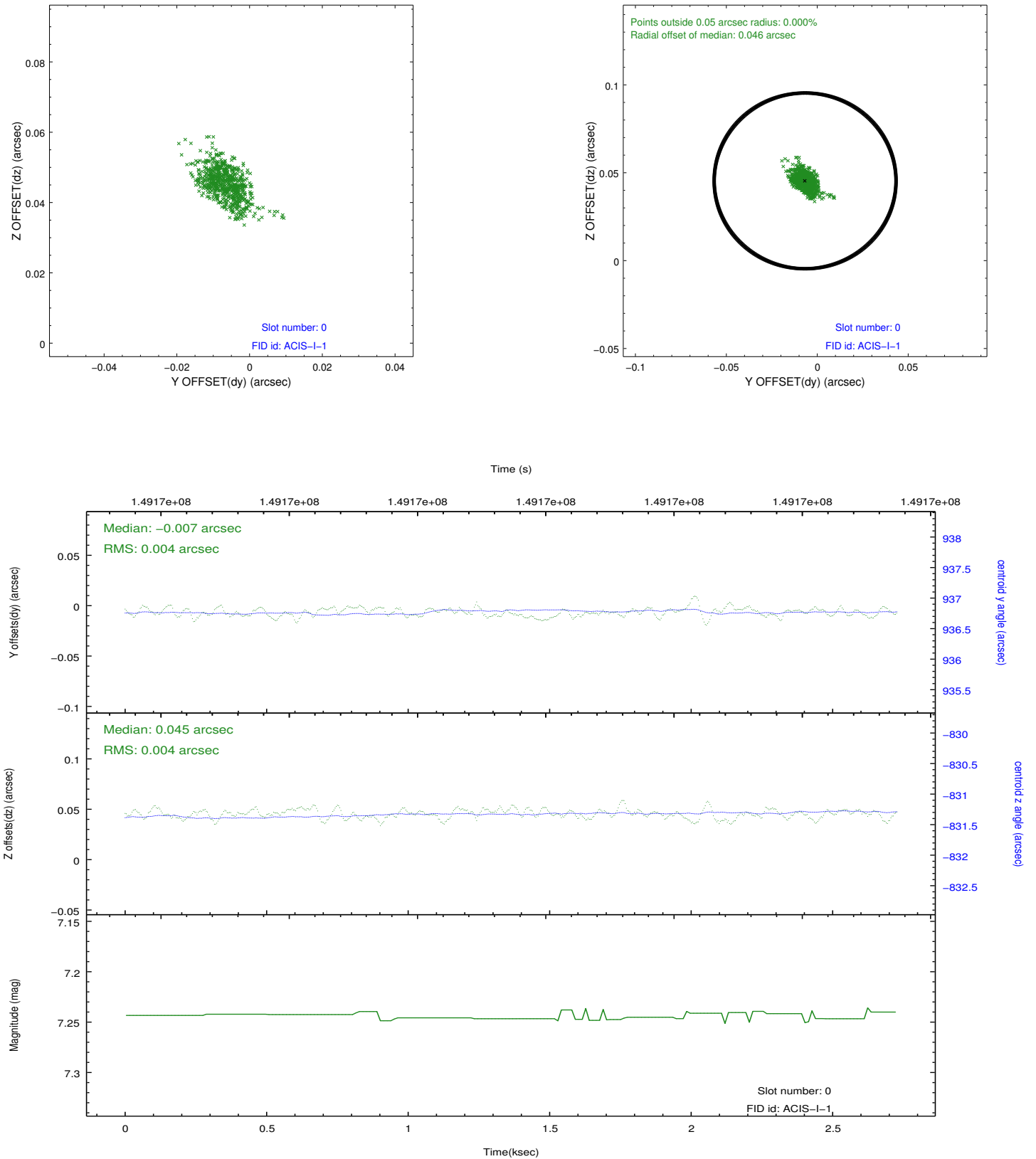


## 2.4.5 Slot 7

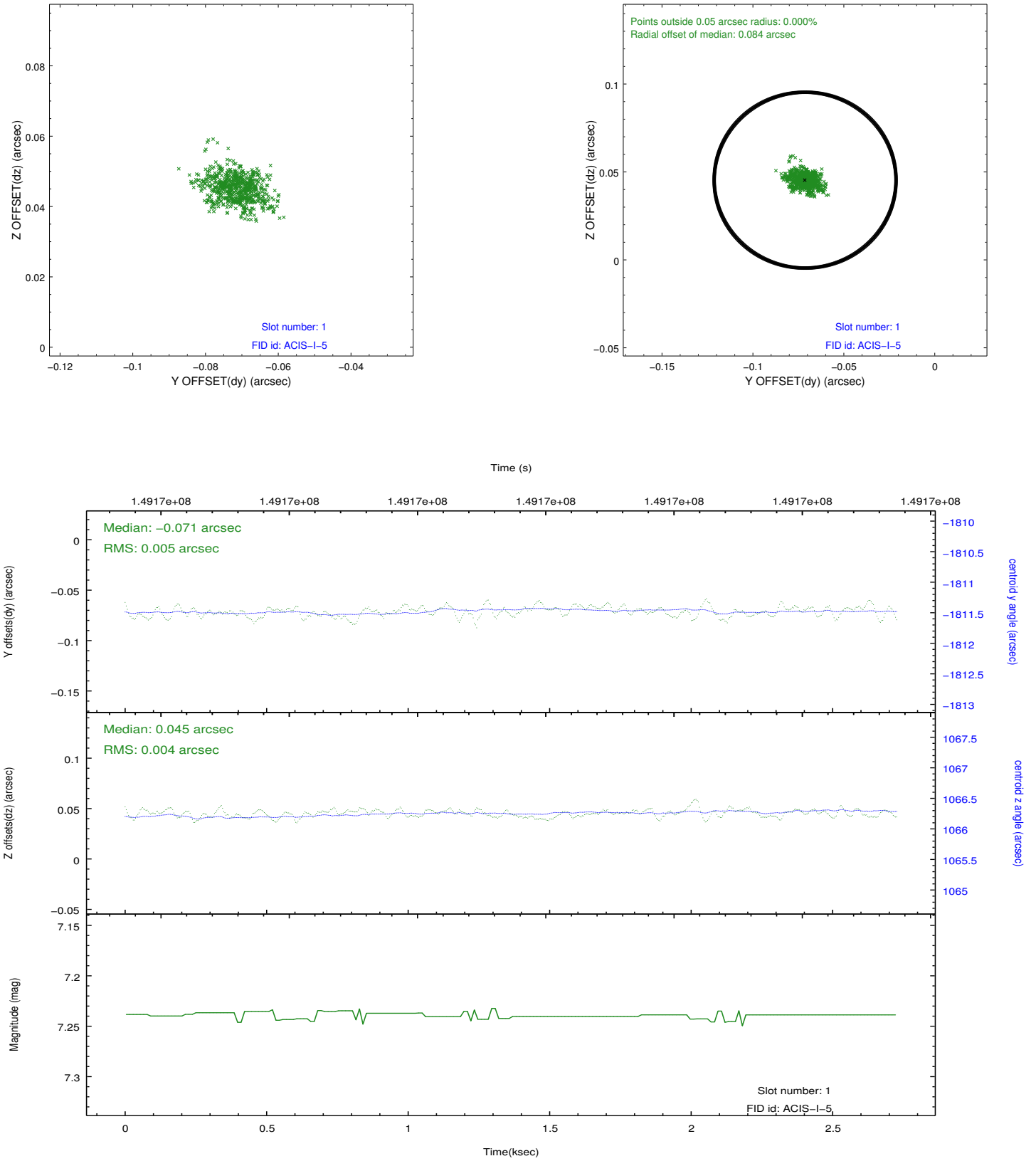


## 2.5 FID Slots

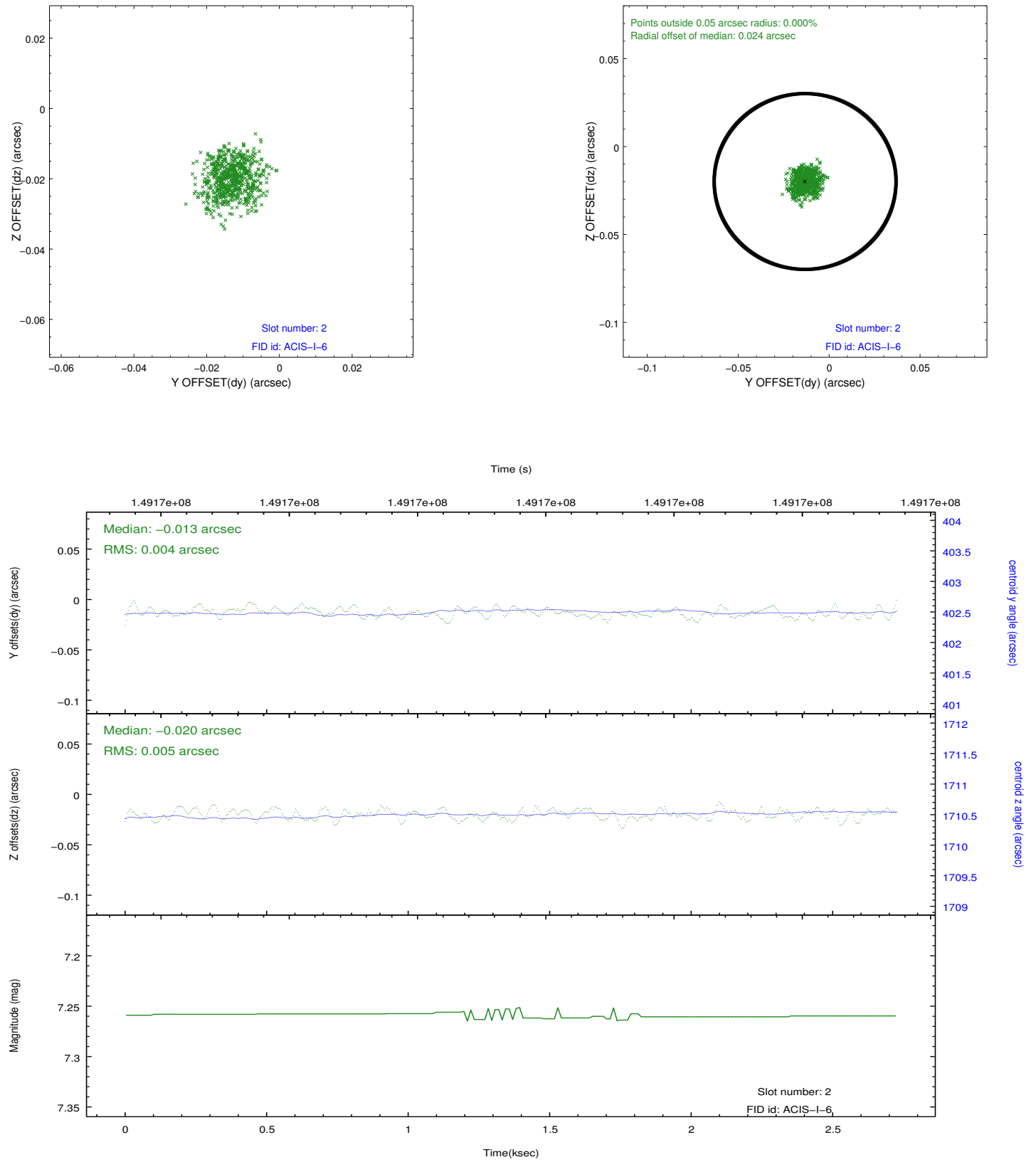
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.367

### **A.2 Comments**