

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 983 - L2 Version 3  
Chandra X-Ray Center

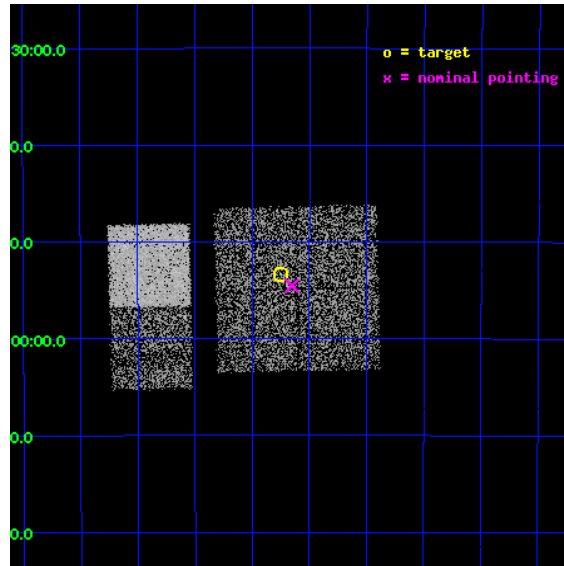
L2 Processing Date : Sep 22 2012

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# 1 Front

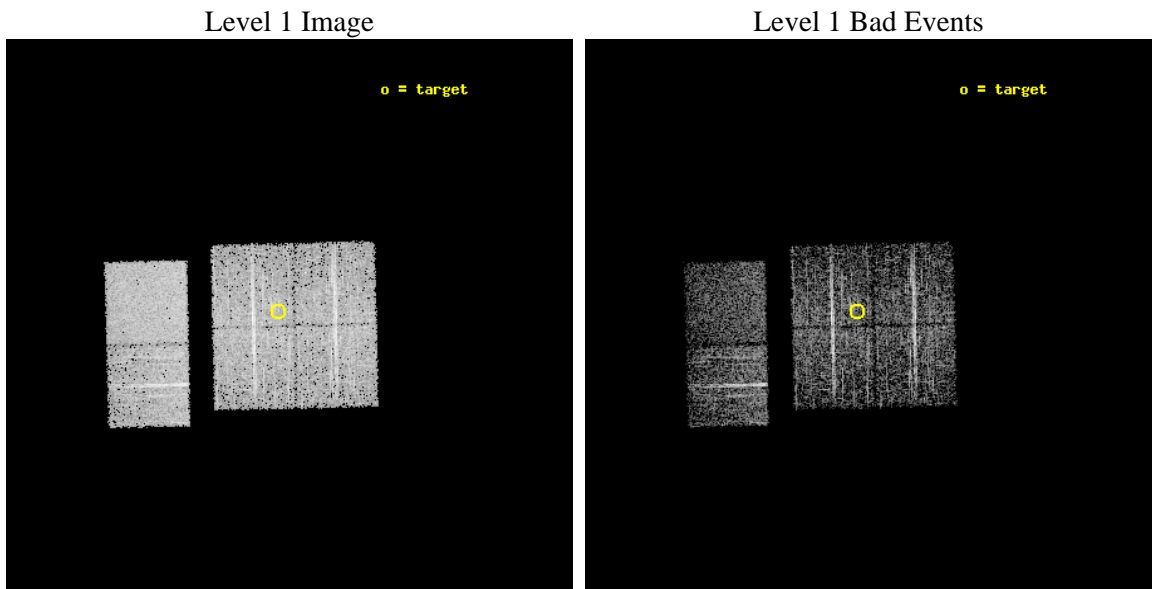
seq_num	200090	Sequence number
obs_id	983	Observation id
title	OBSERVATION OF SCO-CEN OUTLYERS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	HD 152404	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	253.687083	Observer's specified target RA [deg]
dec_targ	-36.888611	Observer's specified target Dec [deg]
ra_nom	253.66332556525	Nominal RA [deg]
dec_nom	-36.909106859648	Nominal Dec [deg]
roll_nom	268.70375778665	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3148.8000029176	Sum of GTIs [s]
livetime	3108.928001301	Livetime [s]
ontime0	3148.8000029176	Sum of GTIs [s]
ontime1	3148.8000029176	Sum of GTIs [s]
ontime2	3148.8000029176	Sum of GTIs [s]
ontime3	3148.8000029176	Sum of GTIs [s]
ontime6	3145.5590426624	Sum of GTIs [s]
ontime7	3148.8000029176	Sum of GTIs [s]
l2events	25335	Number of level 2 events



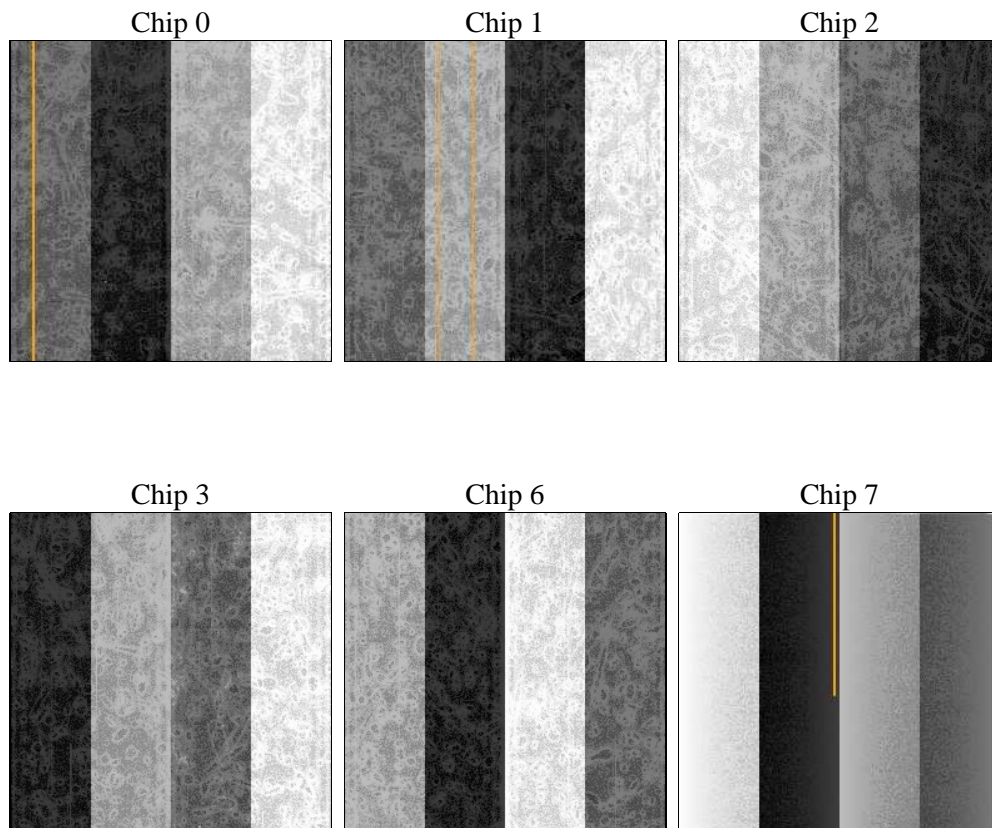
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3148.8000029176	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	3148.8000029176	Sum of GTIs [s]
date	2012-09-22T07:25:20	Date and time of file creation	ontime1	3148.8000029176	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3148.8000029176	Sum of GTIs [s]
			ontime3	3148.8000029176	Sum of GTIs [s]
			ontime6	3145.5590426624	Sum of GTIs [s]
			ontime7	3148.8000029176	Sum of GTIs [s]
			l1events	137373	Number of level 1 events

### 2.1.4 Events

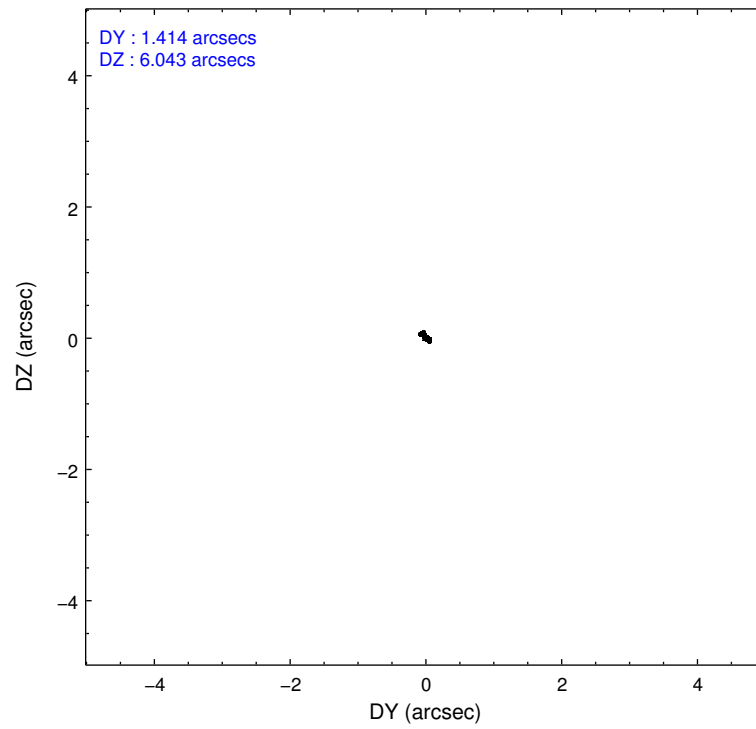
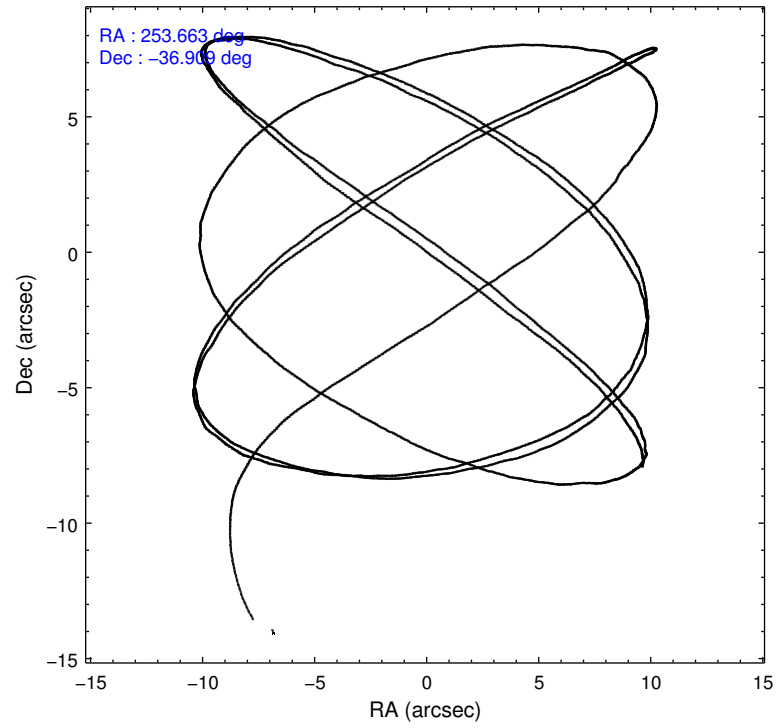
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	21170	20928	22115	21995	23216	27949	grade 0 events	1473	1476	1446	1379	1321	1289
rejected events	18030	17701	19093	19122	20289	15352		6%	7%	6%	6%	5%	4%
rejected %	85%	84%	86%	86%	87%	54%	grade 1 events	12	11	16	11	13	36
								0%	0%	0%	0%	0%	0%
							grade 2 events	607	595	574	543	602	2573
								2%	2%	2%	2%	2%	9%
							grade 3 events	284	302	260	278	238	1170
								1%	1%	1%	1%	1%	4%
							grade 4 events	261	289	294	240	237	1209
								1%	1%	1%	1%	1%	4%
							grade 5 events	697	823	697	845	860	2515
								3%	3%	3%	3%	3%	8%
							grade 6 events	518	567	451	436	532	6362
								2%	2%	2%	1%	2%	22%
							grade 7 events	17318	16865	18377	18263	19413	12795
								81%	80%	83%	83%	83%	45%

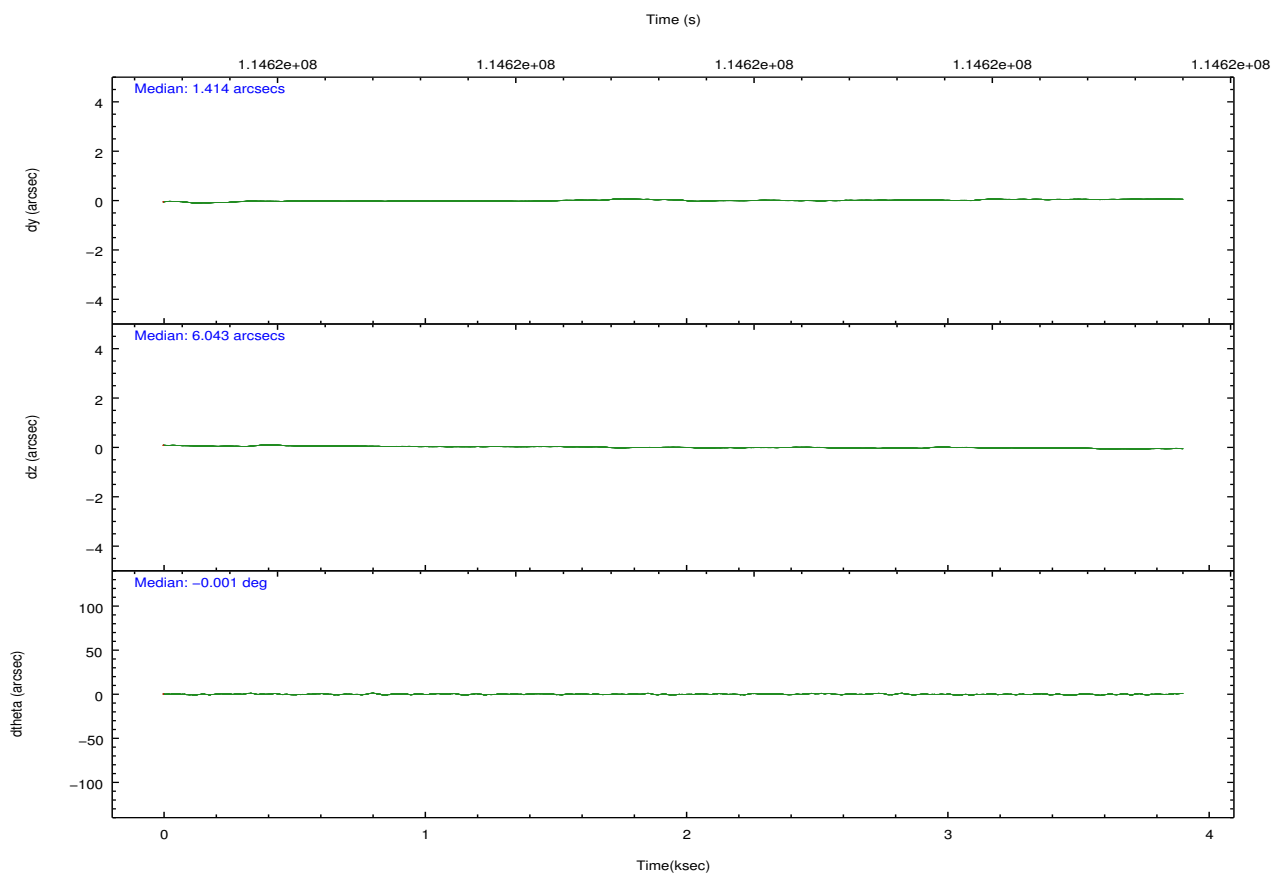
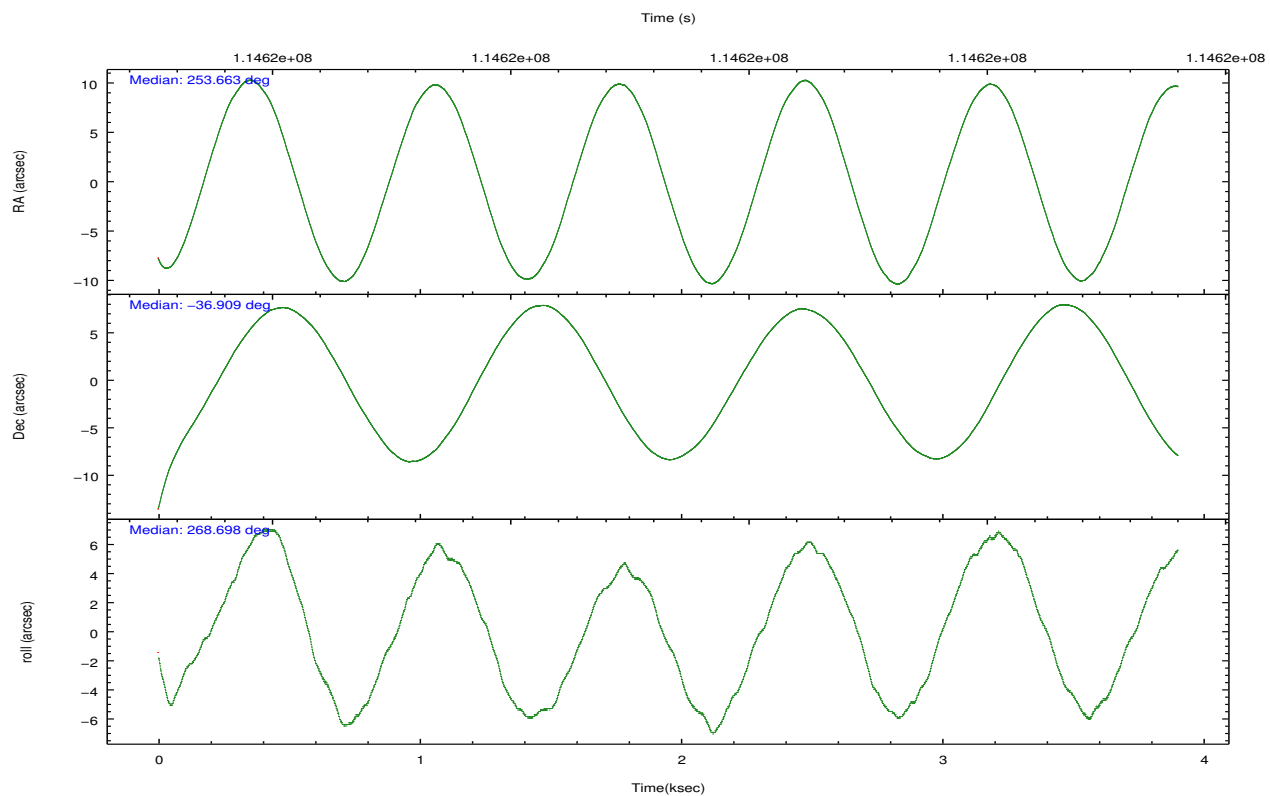


## 2.2 Compared Parameters

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	253.646765	253.6633255652456	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.885099	-36.90910685964778	Alternating exposures requested	N	N
[deg] Pointing Roll	268.485115	268.7037577866486	[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)	114621413.184000	114620198.54993			
Observation start date	2001-08-19T15:15:49	2001-08-19T14:56:38			
[s] Observation end time (MET)	114624613.184000	114624991.96262			
Observation end date	2001-08-19T16:09:09	2001-08-19T16:16:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect



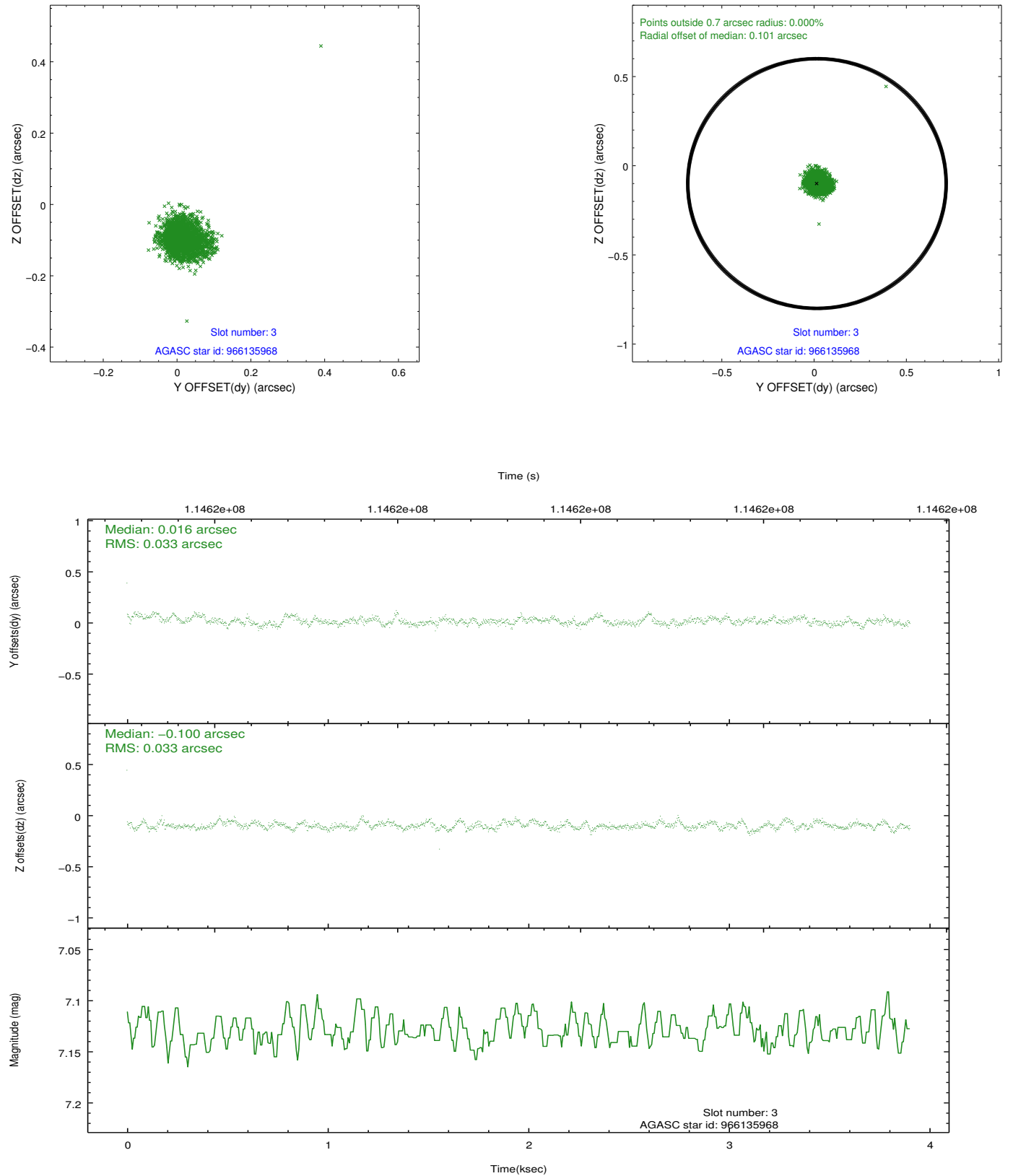


### Slot Statistics

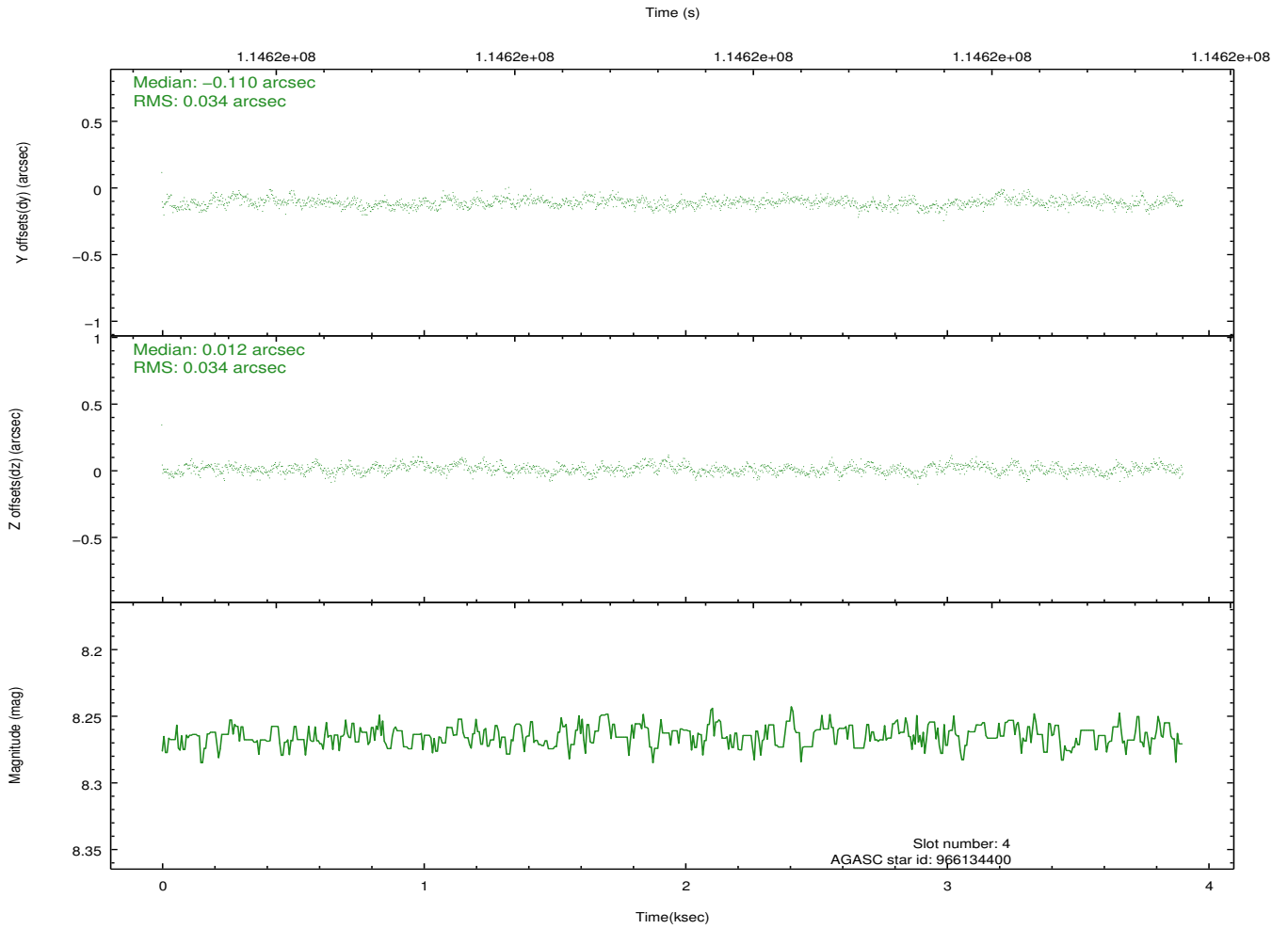
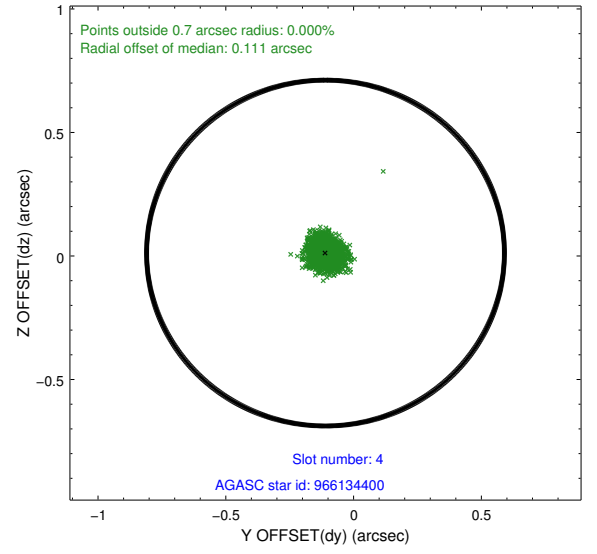
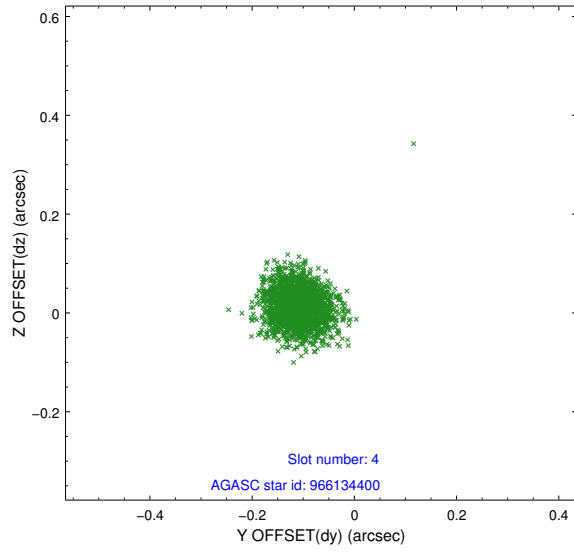
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	953	-0.009	0.015	0.006	0.011	0.000000	0.000000	938.40	-829.42
1	FID	ACIS-I-5	7.23	953	-0.054	0.040	0.006	0.010	0.000000	0.000000	-1808.83	1067.34
2	FID	ACIS-I-6	7.27	953	-0.029	0.015	0.007	0.011	0.000000	0.000000	402.23	1713.60
3	GUIDE	966135968	7.13	1905	0.016	-0.100	0.047	0.076	253.203661	-37.012422	496.17	-1260.78
4	GUIDE	966134400	8.26	1905	-0.110	0.012	0.051	0.084	253.756019	-36.335662	-1984.30	264.01
5	GUIDE	966133872	8.34	1904	0.008	-0.041	0.056	0.093	253.026517	-37.207397	1212.89	-1746.31
6	GUIDE	966134408	8.57	1904	0.045	0.053	0.055	0.088	253.510089	-37.014704	478.91	-380.81
7	GUIDE	966137216	8.81	1903	0.040	0.075	0.061	0.101	253.980001	-37.098541	745.74	977.26

## 2.4 Star Slots

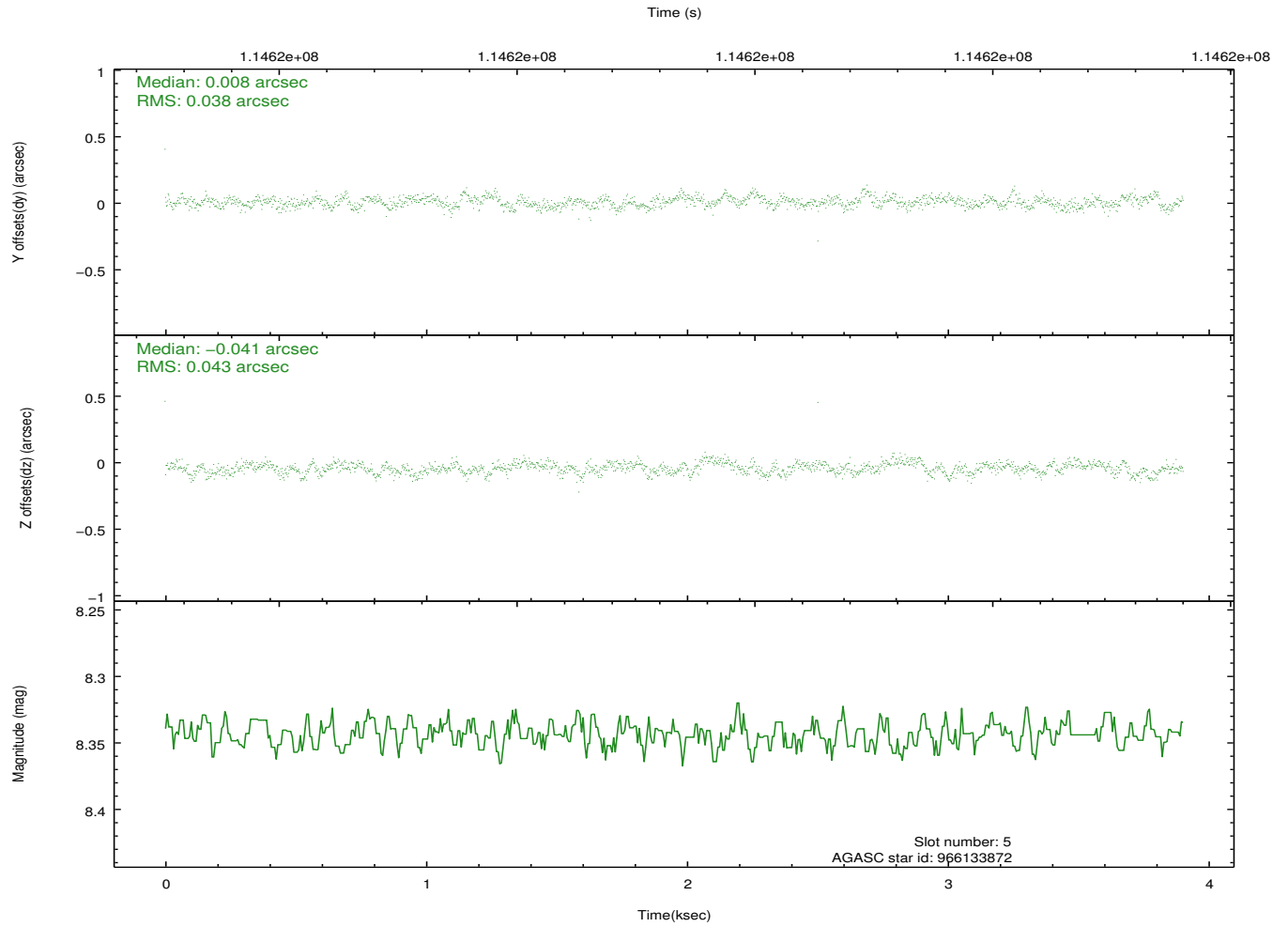
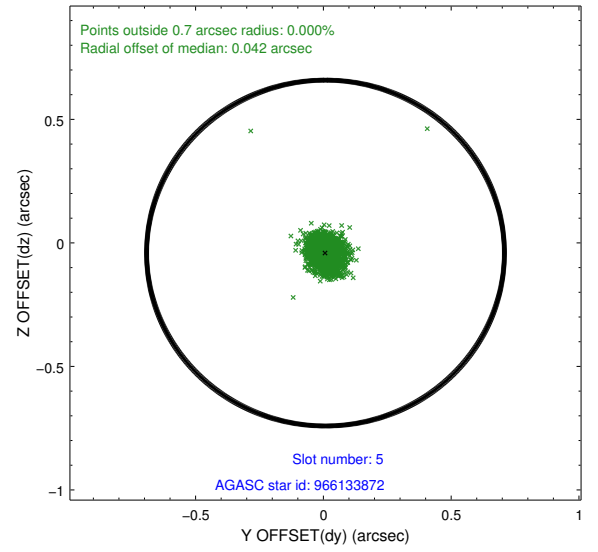
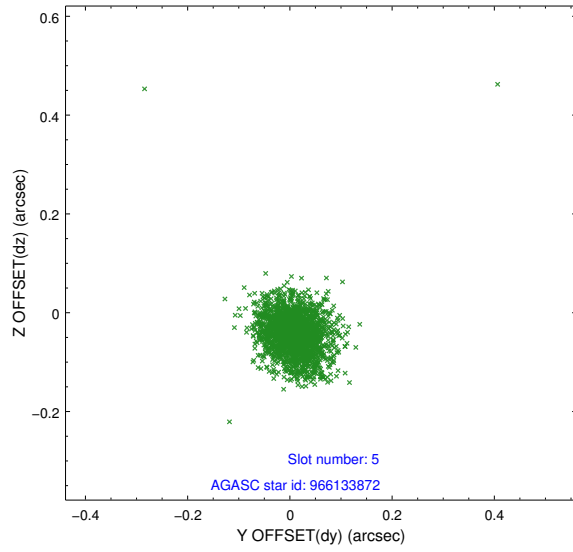
### 2.4.1 Slot 3



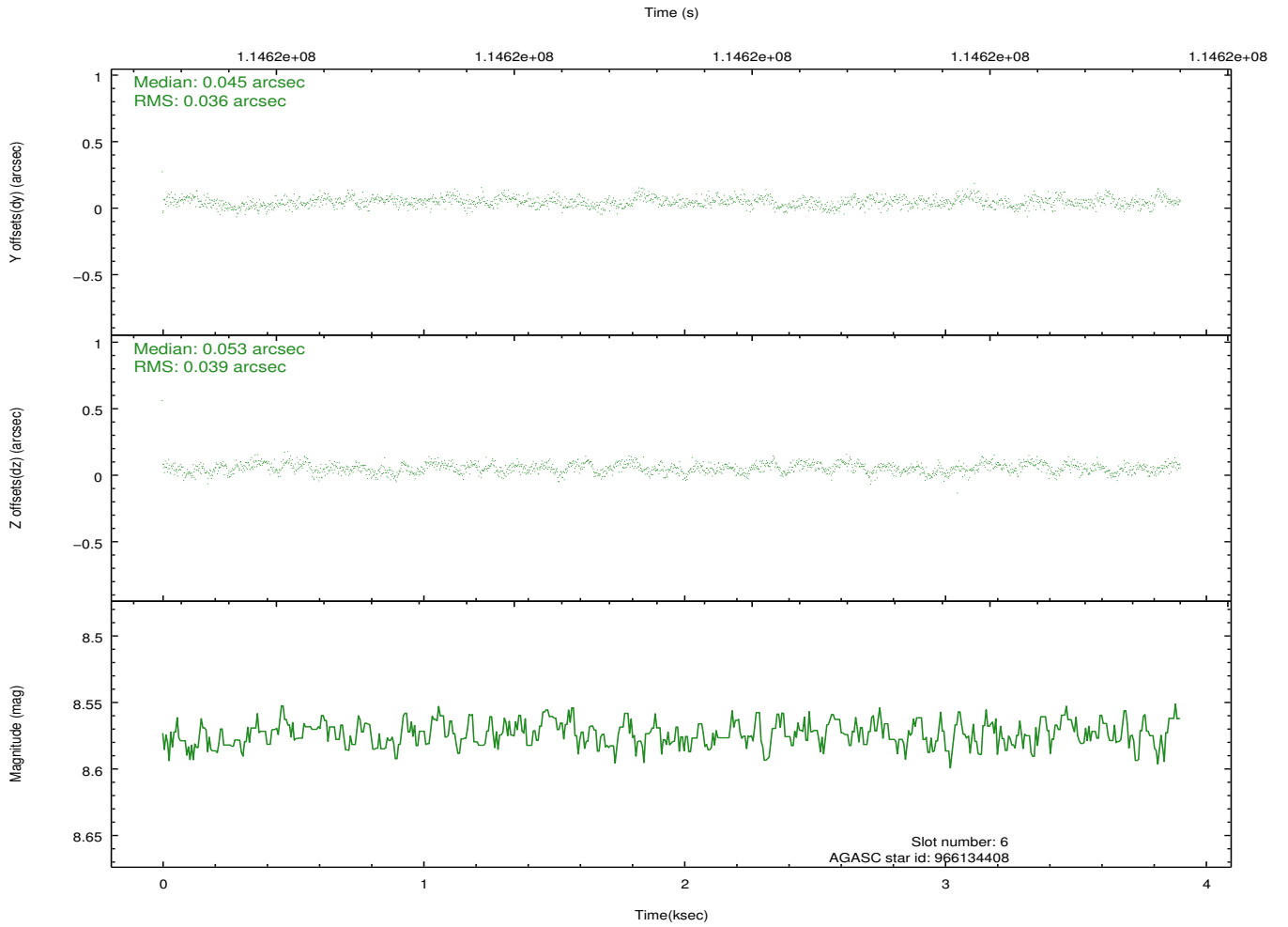
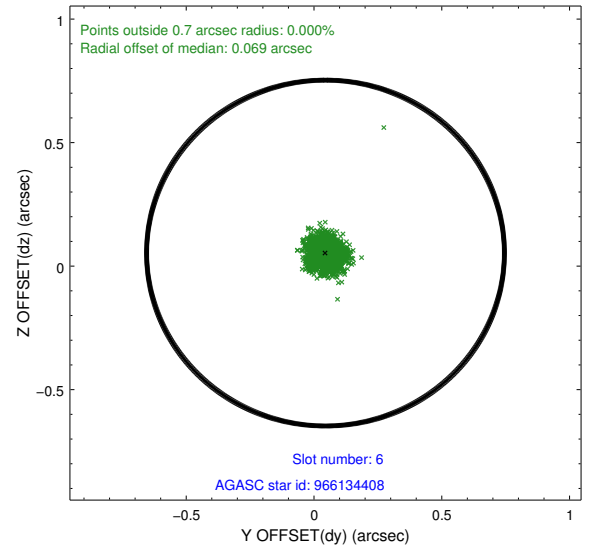
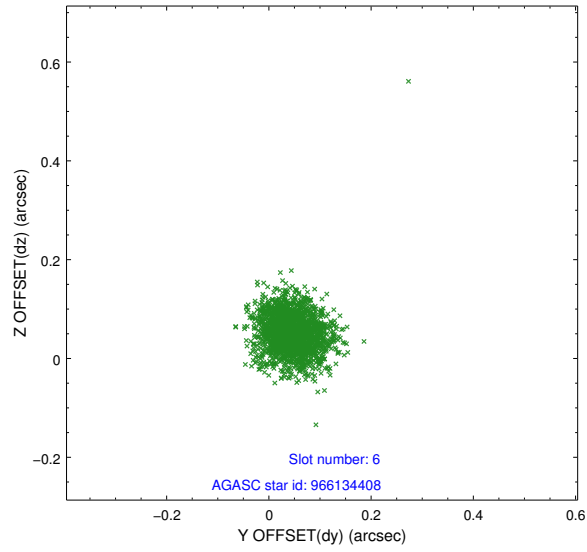
## 2.4.2 Slot 4



### 2.4.3 Slot 5

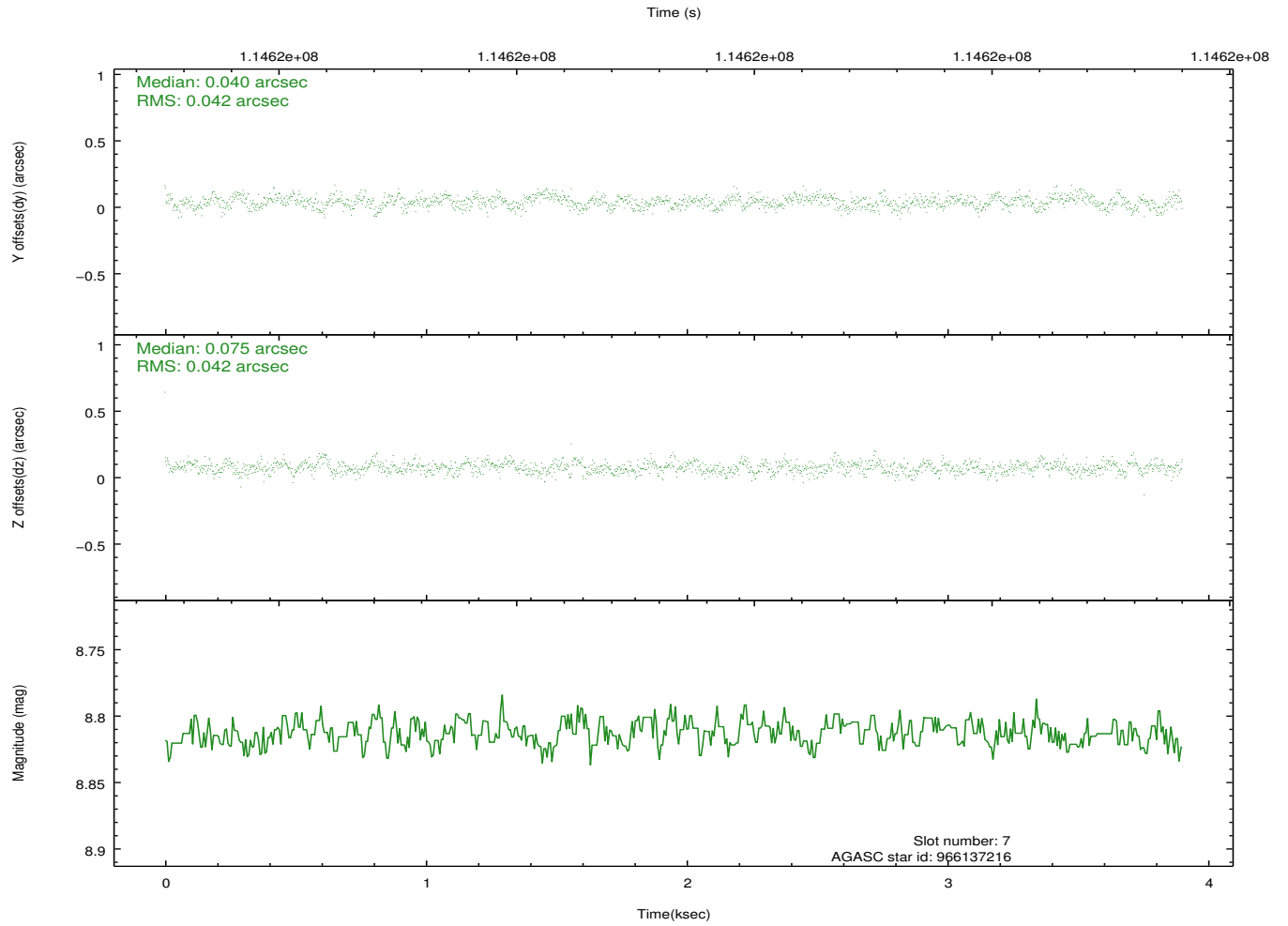
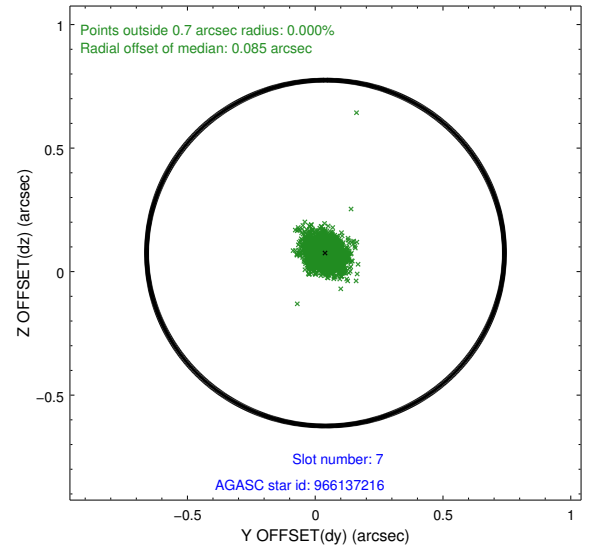
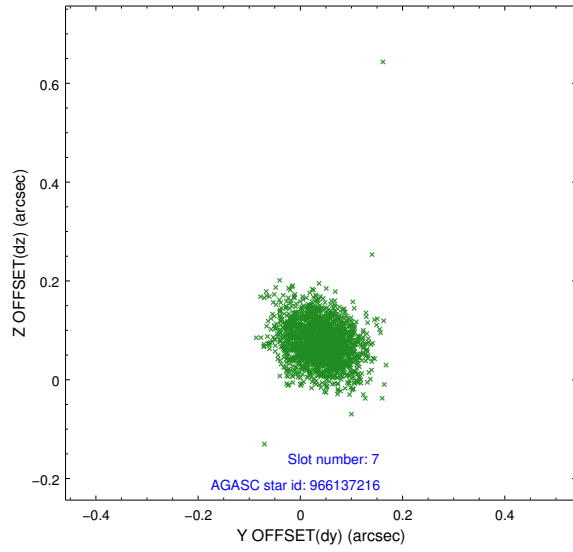


## 2.4.4 Slot 6



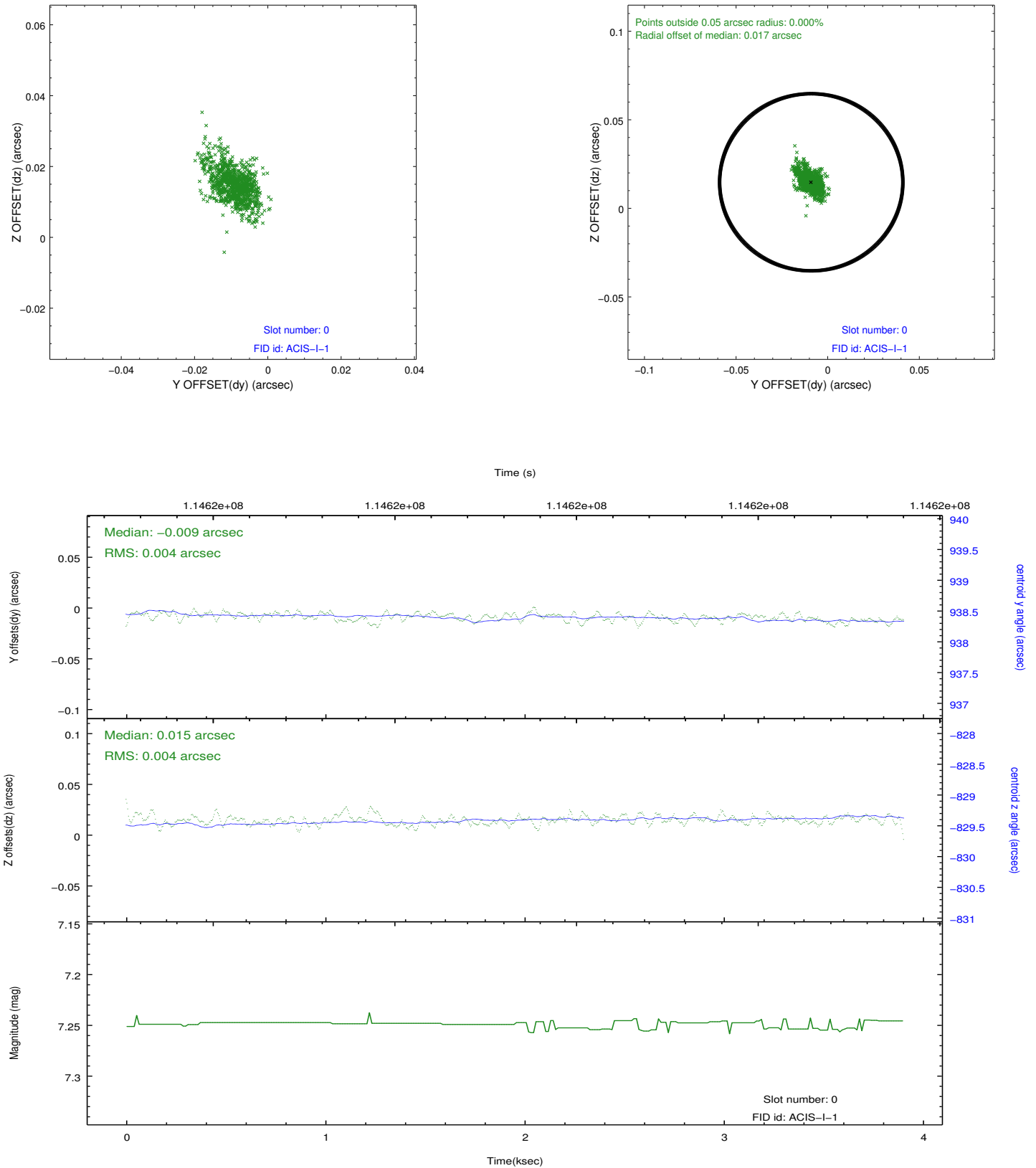


## 2.4.5 Slot 7

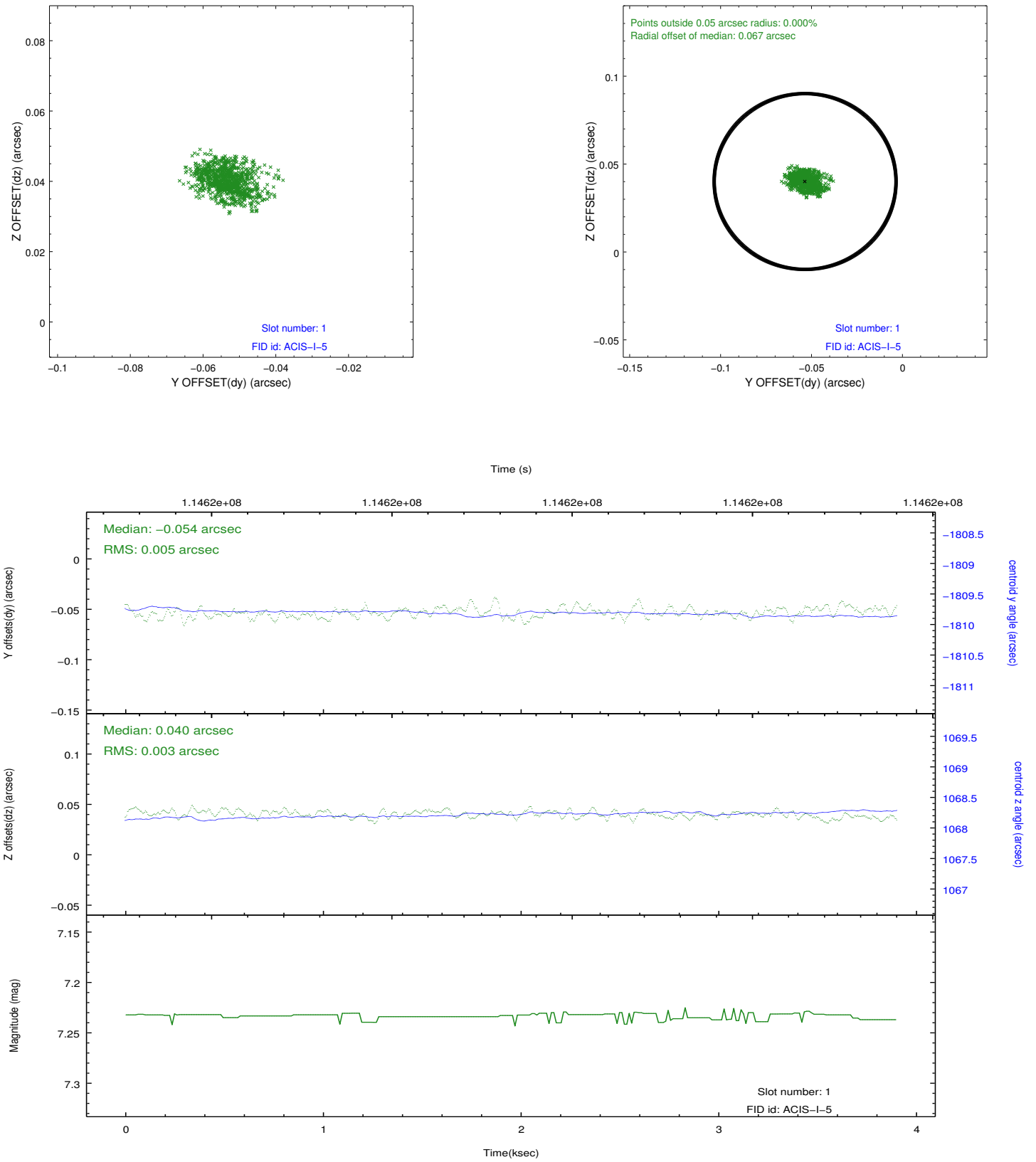


## 2.5 FID Slots

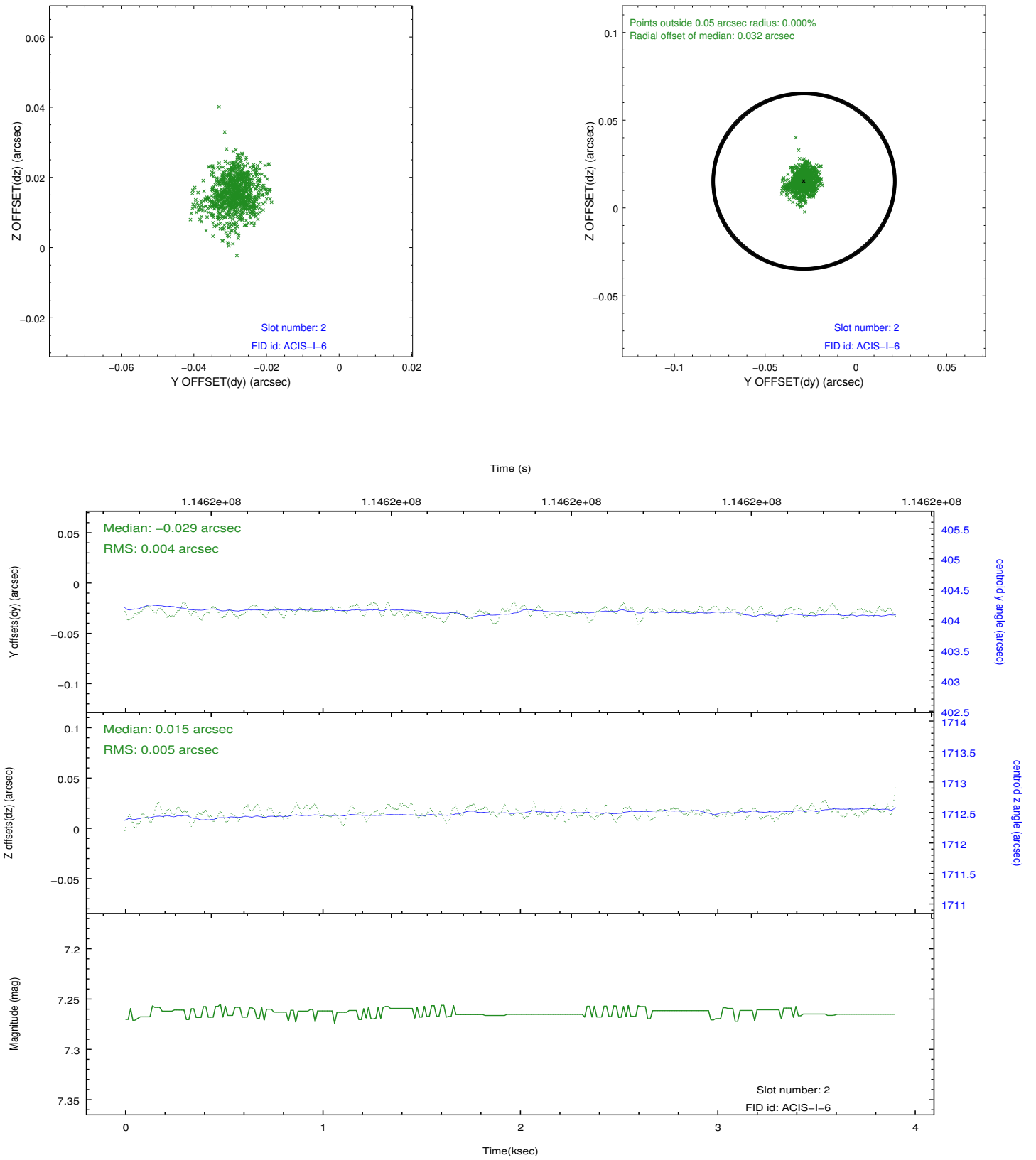
### 2.5.1 Slot 0



## 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)	2012.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.152

### **A.2 Comments**