

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7689 - L2 Version 2  
Chandra X-Ray Center

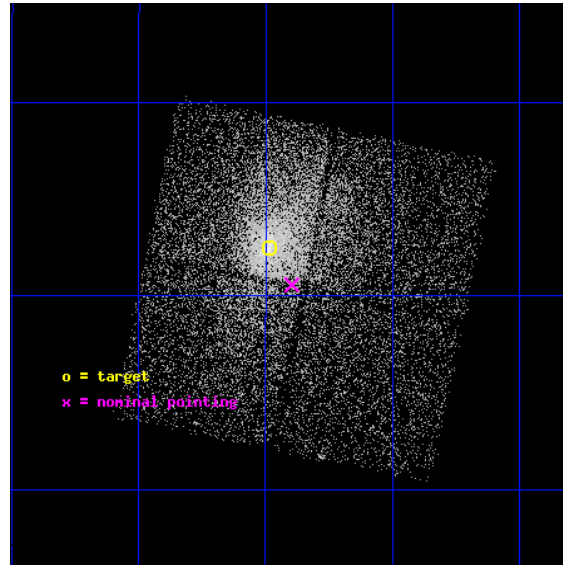
L2 Processing Date : May 1 2012

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# 1 Front

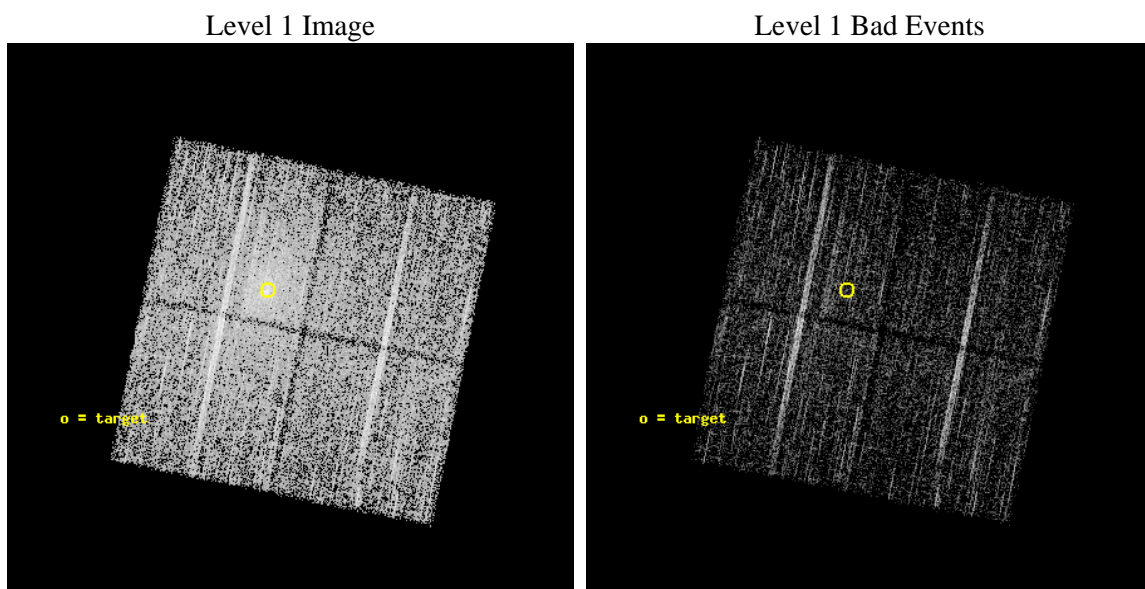
seq_num	701357	Sequence number
obs_id	7689	Observation id
title	Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies	P
observer	Professor Gordon Garmire	Principal investigator
object	A2065	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.620833	Observer's specified target RA [deg]
dec_targ	27.708306	Observer's specified target Dec [deg]
ra_nom	230.59917040093	Nominal RA [deg]
dec_nom	27.676242150885	Nominal Dec [deg]
roll_nom	281.40771553582	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5133.5590791702	Sum of GTIs [s]
livetime	5066.4853505297	Livetime [s]
ontime0	5133.5590492487	Sum of GTIs [s]
ontime1	5136.700039506	Sum of GTIs [s]
ontime2	5136.700039506	Sum of GTIs [s]
ontime3	5133.5590791702	Sum of GTIs [s]
l2events	25151	Number of level 2 events



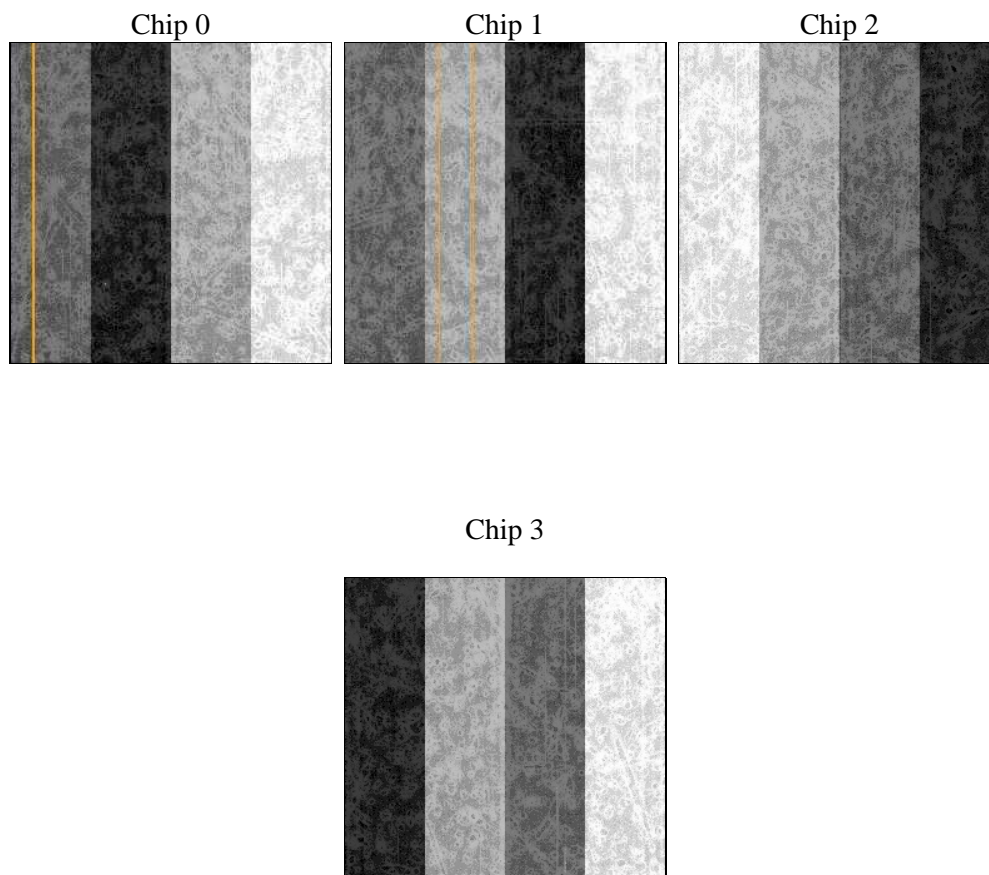
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	5133.5590791702	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	5133.5590492487	Sum of GTIs [s]
date	2012-05-01T04:11:57	Date and time of file creation	ontime1	5136.700039506	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5136.700039506	Sum of GTIs [s]
			ontime3	5133.5590791702	Sum of GTIs [s]
			l1events	211433	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	46389	45085	57428	62531
rejected events	42389	39464	51702	49364
rejected %	91%	87%	90%	78%

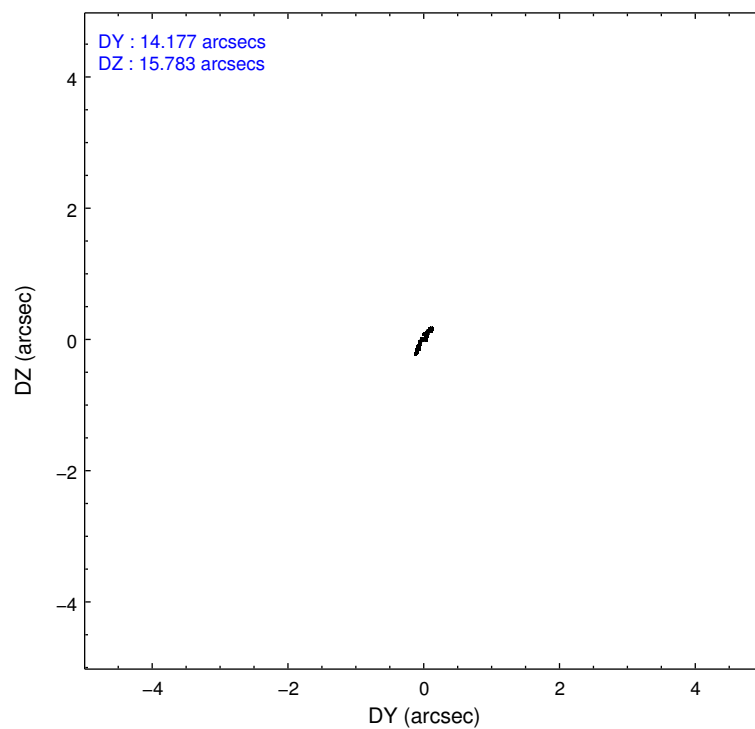
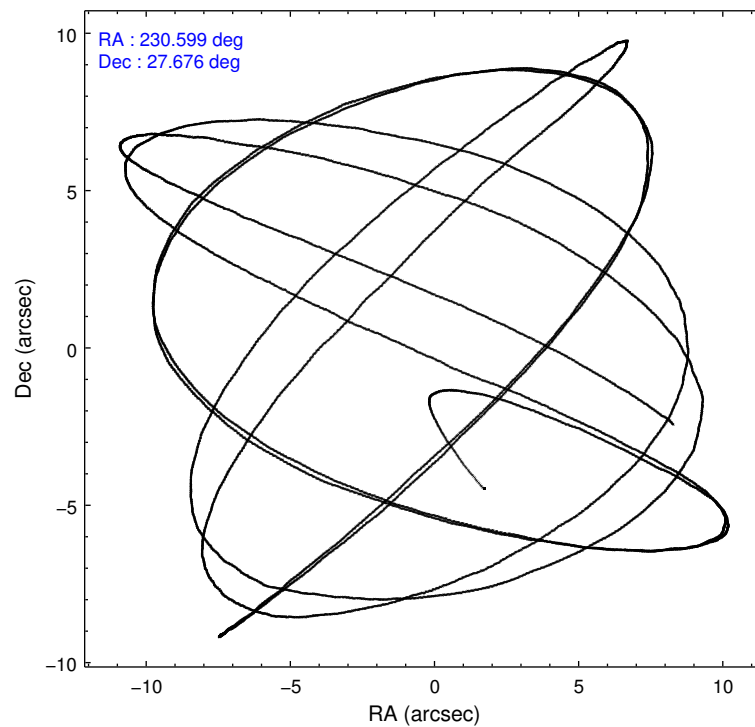
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2363	3657	3977	10366
	5%	8%	6%	16%
grade 1 events	34	35	37	92
	0%	0%	0%	0%
grade 2 events	1225	1299	1307	1933
	2%	2%	2%	3%
grade 3 events	524	612	534	721
	1%	1%	0%	1%
grade 4 events	487	586	546	758
	1%	1%	0%	1%
grade 5 events	816	944	766	1011
	1%	2%	1%	1%
grade 6 events	629	807	626	903
	1%	1%	1%	1%
grade 7 events	40311	37145	49635	46747
	86%	82%	86%	74%

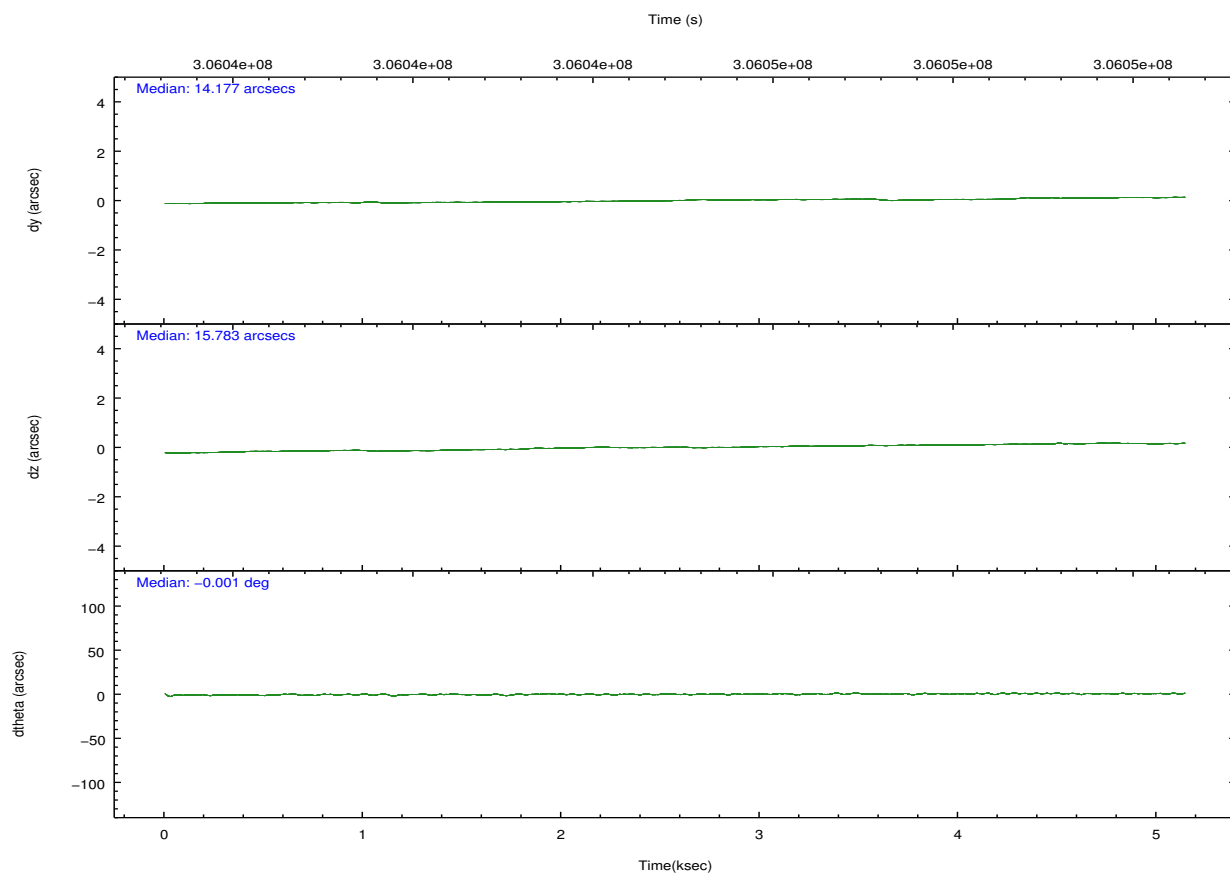
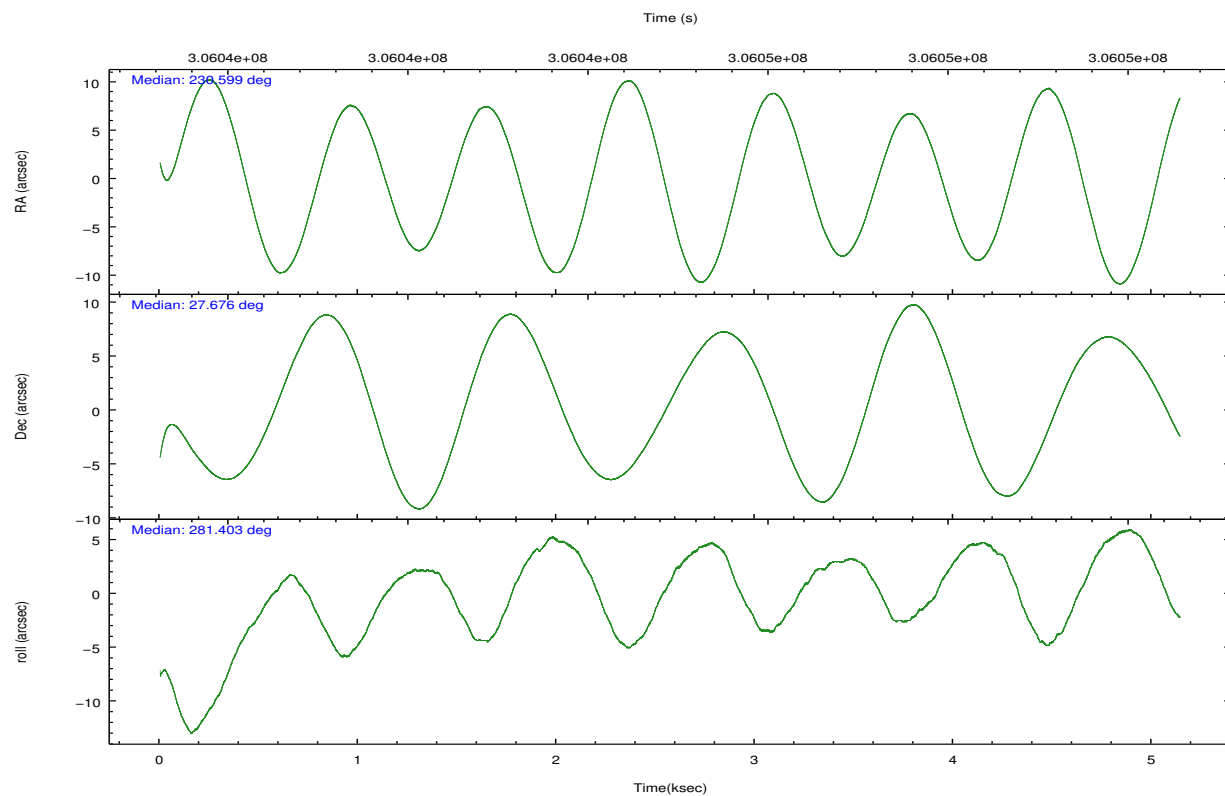


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	230.578502	230.59917040093	Subarray requested	NONE	NONE
[deg] Pointing Dec	27.696806	27.67624215088471	Alternating exposures requested	N	N
[deg] Pointing Roll	281.208639	281.4077155358212	[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)	306043027.184000	306040968.06975			
Observation start date	2007-09-13T03:56:02	2007-09-13T03:22:48			
[s] Observation end time (MET)	306048027.184000	306049228.03264			
Observation end date	2007-09-13T05:19:22	2007-09-13T05:40:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



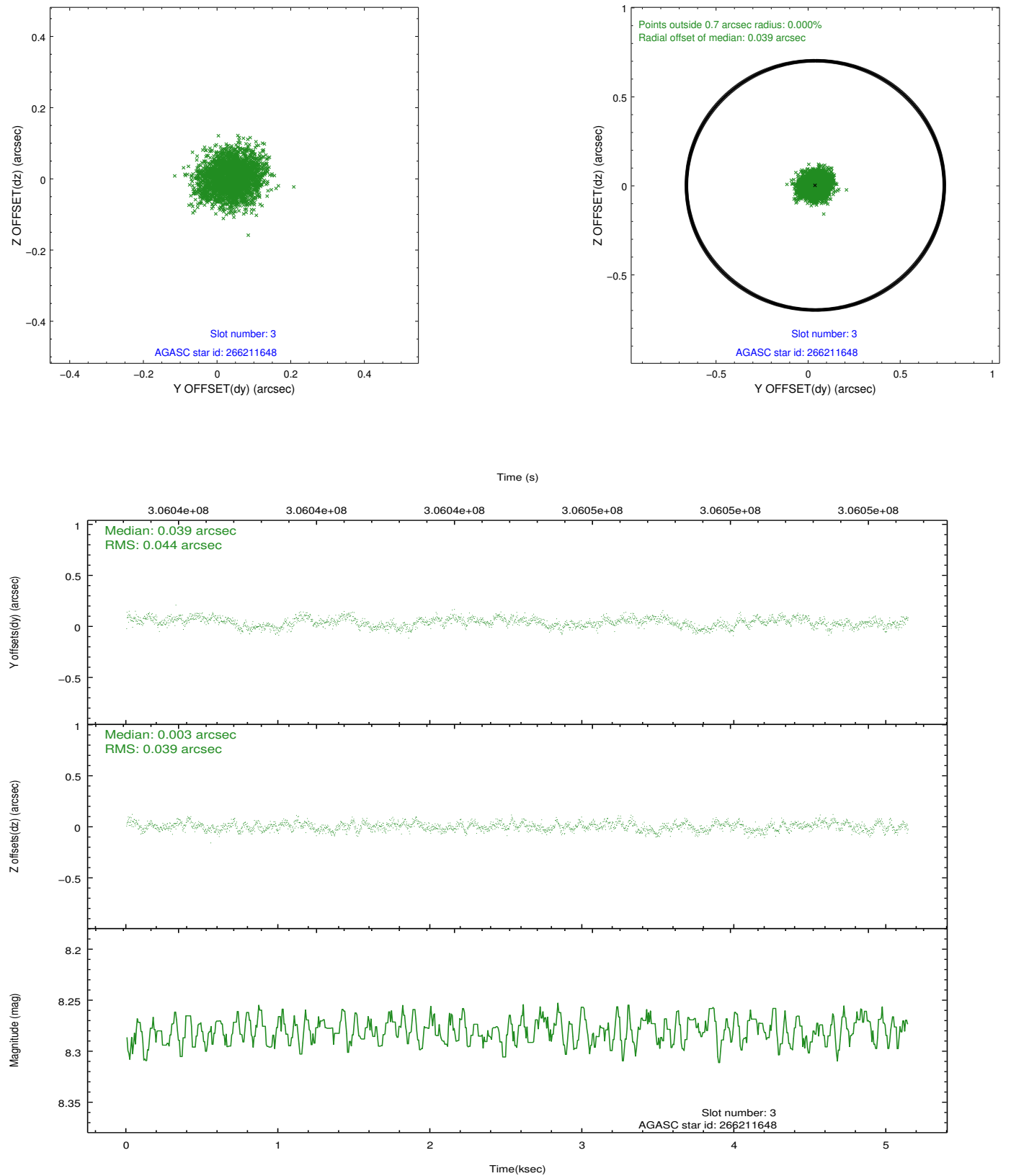


### Slot Statistics

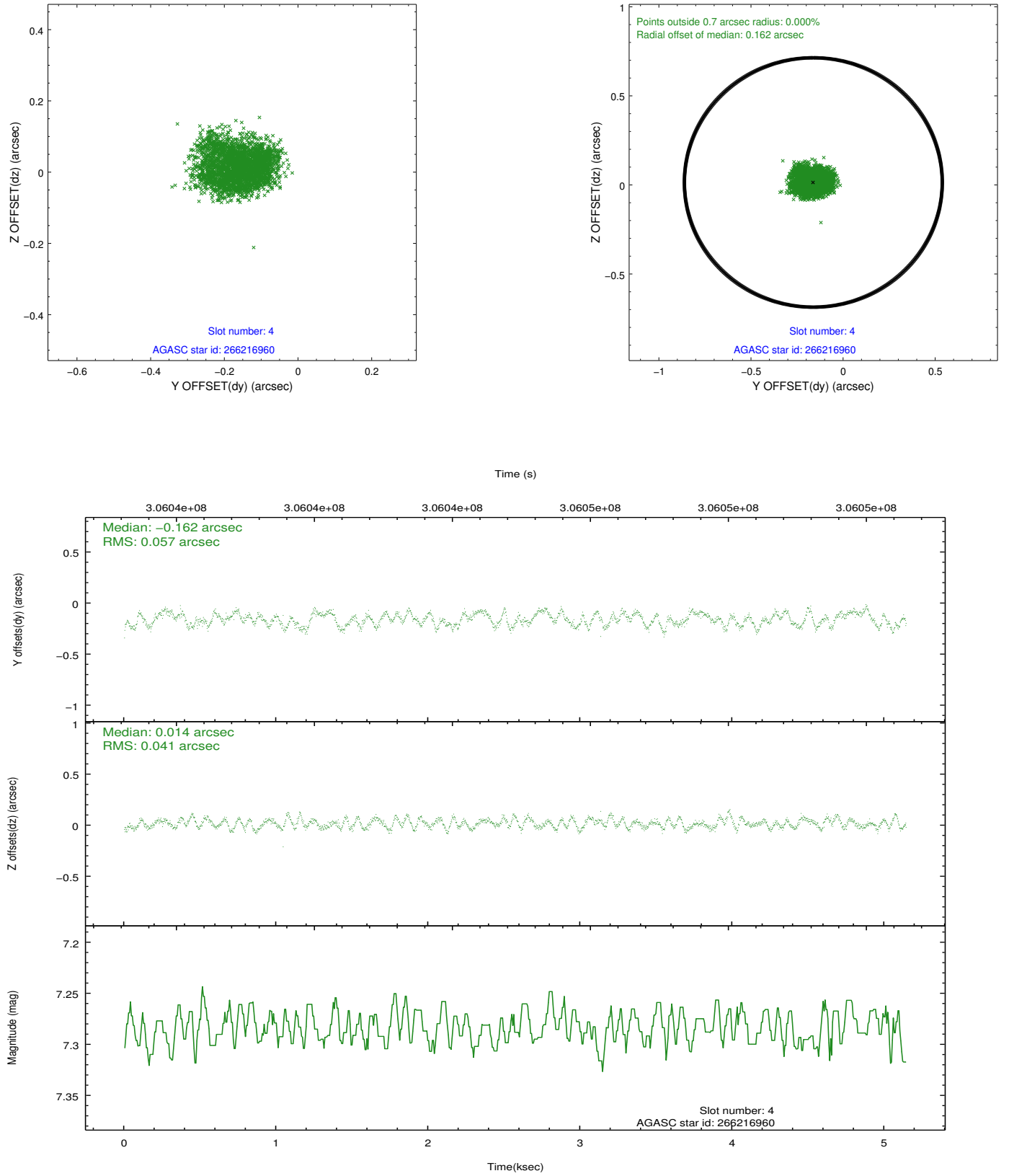
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1254	0.058	-0.052	0.008	0.014	0.000000	0.000000	925.35	-839.46
1	FID	ACIS-I-5	7.22	1255	-0.225	0.051	0.007	0.011	0.000000	0.000000	-1822.36	1057.58
2	FID	ACIS-I-6	7.23	1254	0.076	0.072	0.008	0.013	0.000000	0.000000	389.67	1703.41
3	GUIDE	266211648	8.28	2509	0.039	0.003	0.064	0.097	230.073423	27.749704	-502.34	-1540.73
4	GUIDE	266216960	7.28	2509	-0.162	0.014	0.077	0.116	230.691743	28.057036	-1202.40	604.45
5	GUIDE	266217224	9.30	2508	-0.041	0.095	0.085	0.137	230.998646	27.912725	-505.30	1462.95
6	GUIDE	265824048	8.45	2509	-0.061	0.073	0.061	0.097	230.460647	27.398792	979.18	-577.26
7	GUIDE	265822376	9.73	2502	0.223	-0.191	0.147	0.237	230.365718	26.976877	2410.11	-1173.51

## 2.4 Star Slots

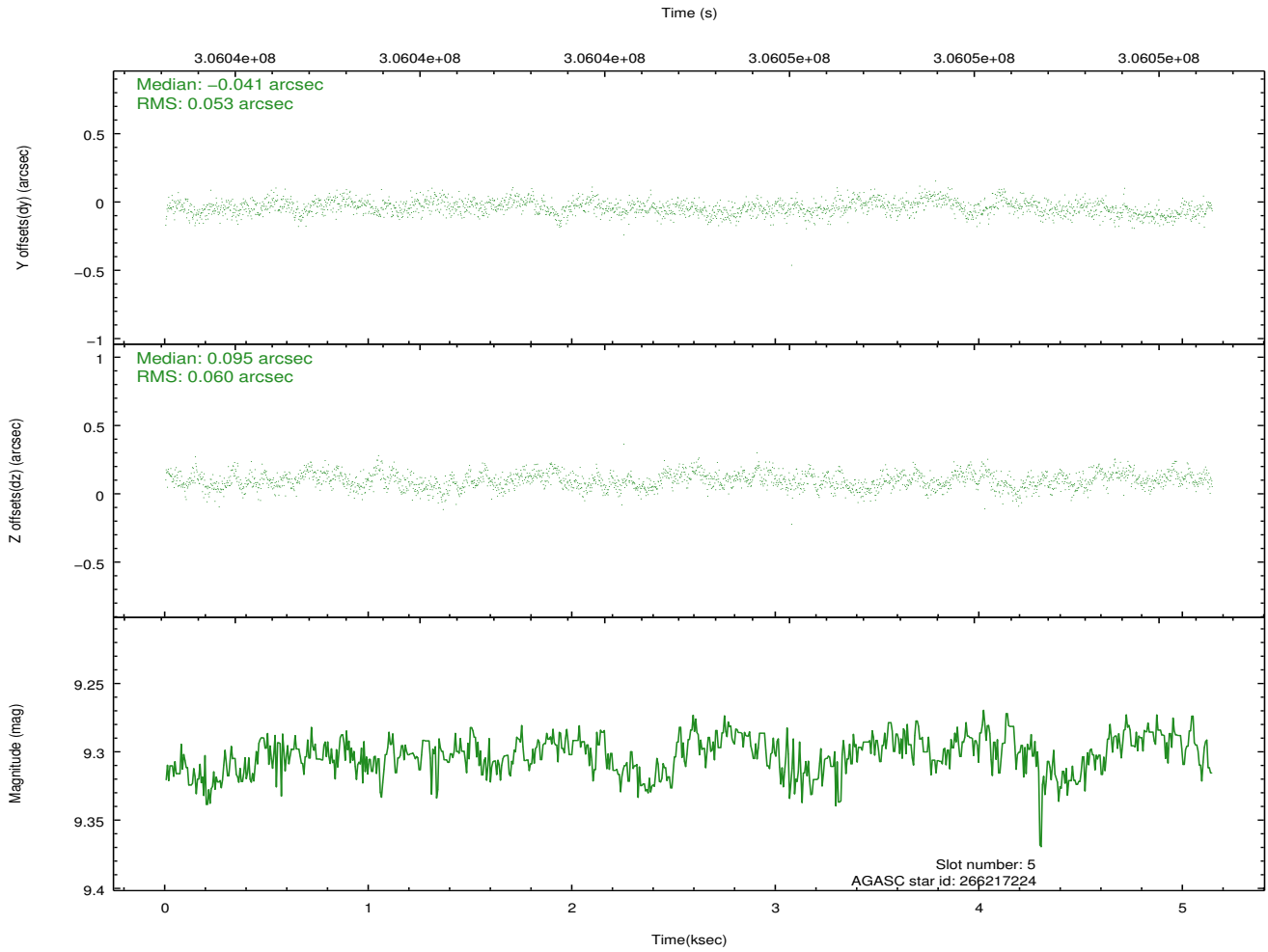
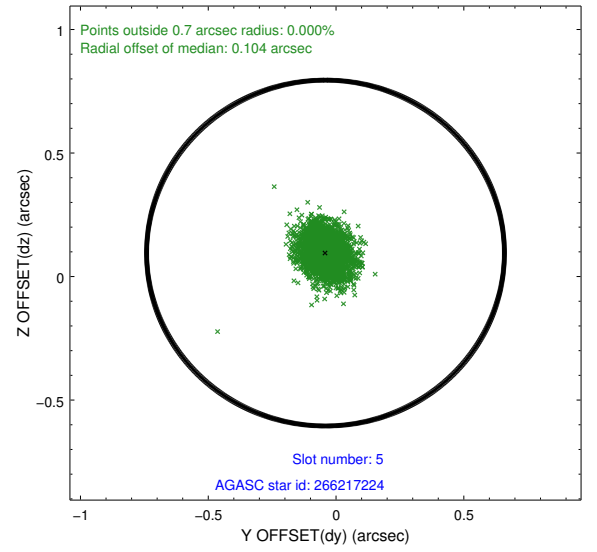
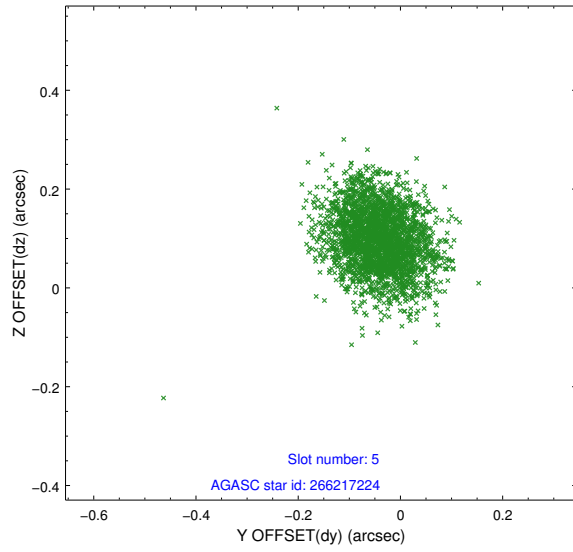
### 2.4.1 Slot 3



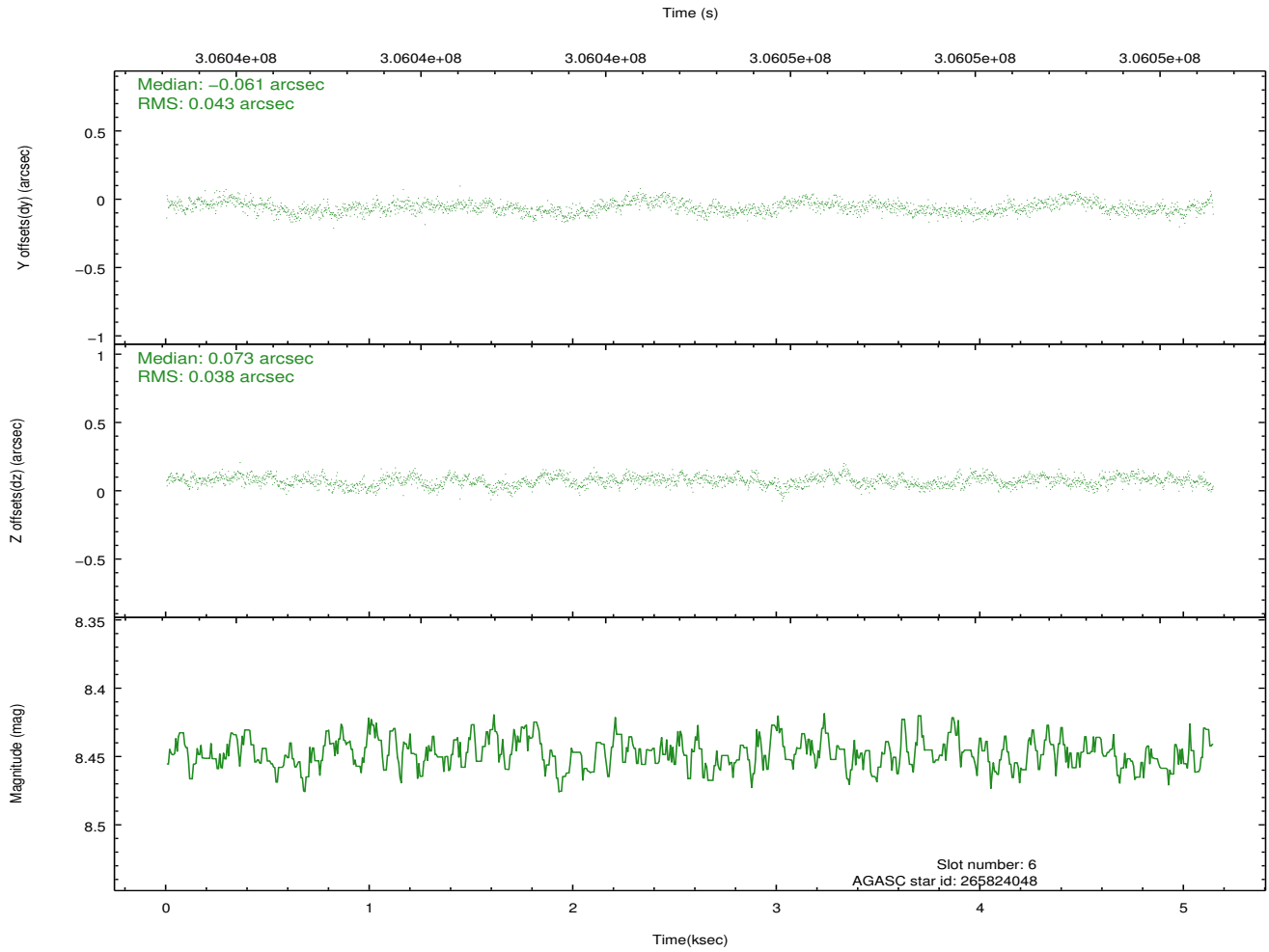
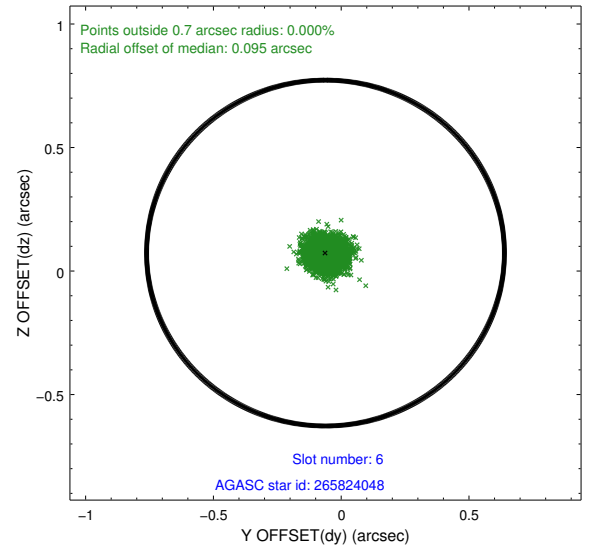
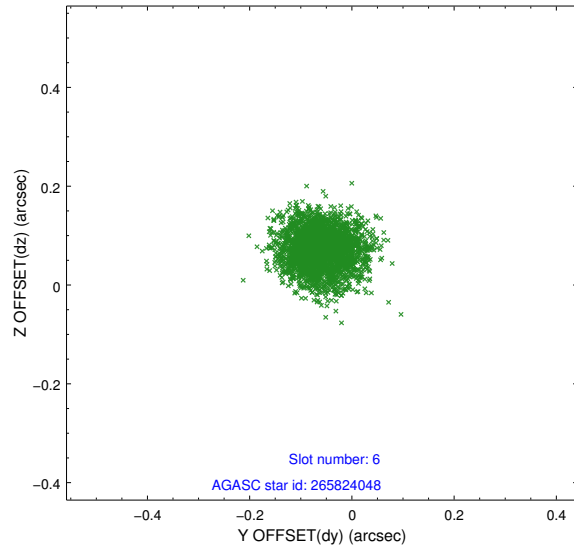
## 2.4.2 Slot 4



### 2.4.3 Slot 5

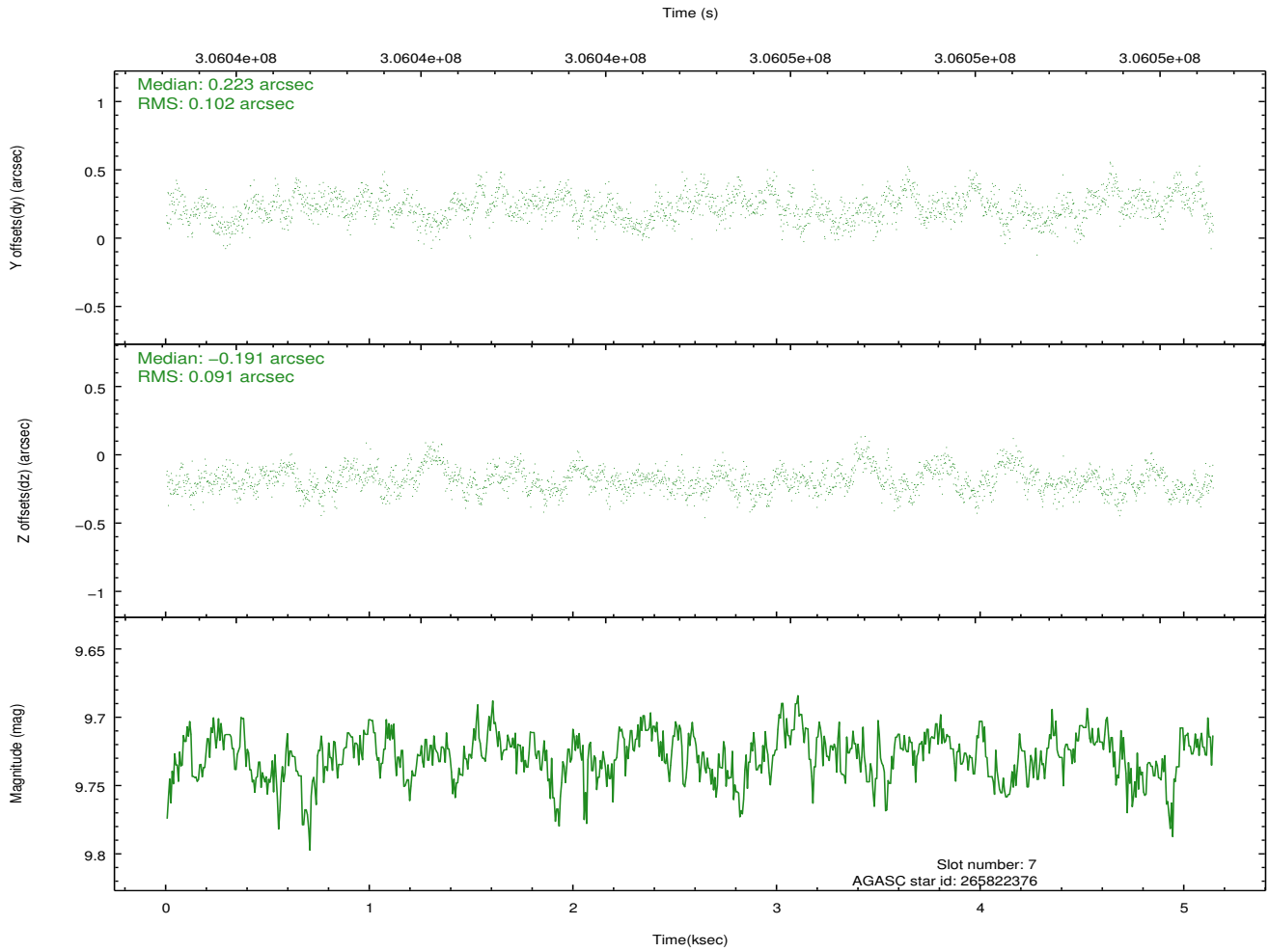
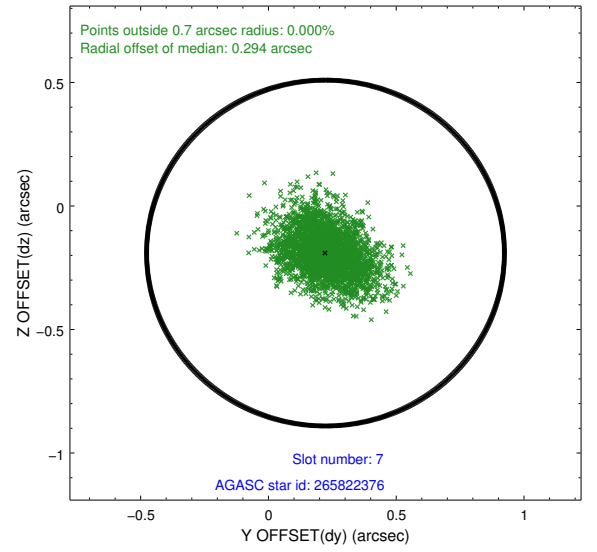
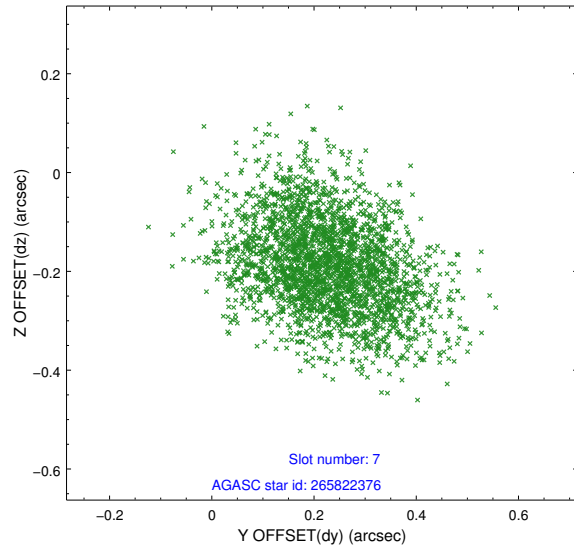


## 2.4.4 Slot 6



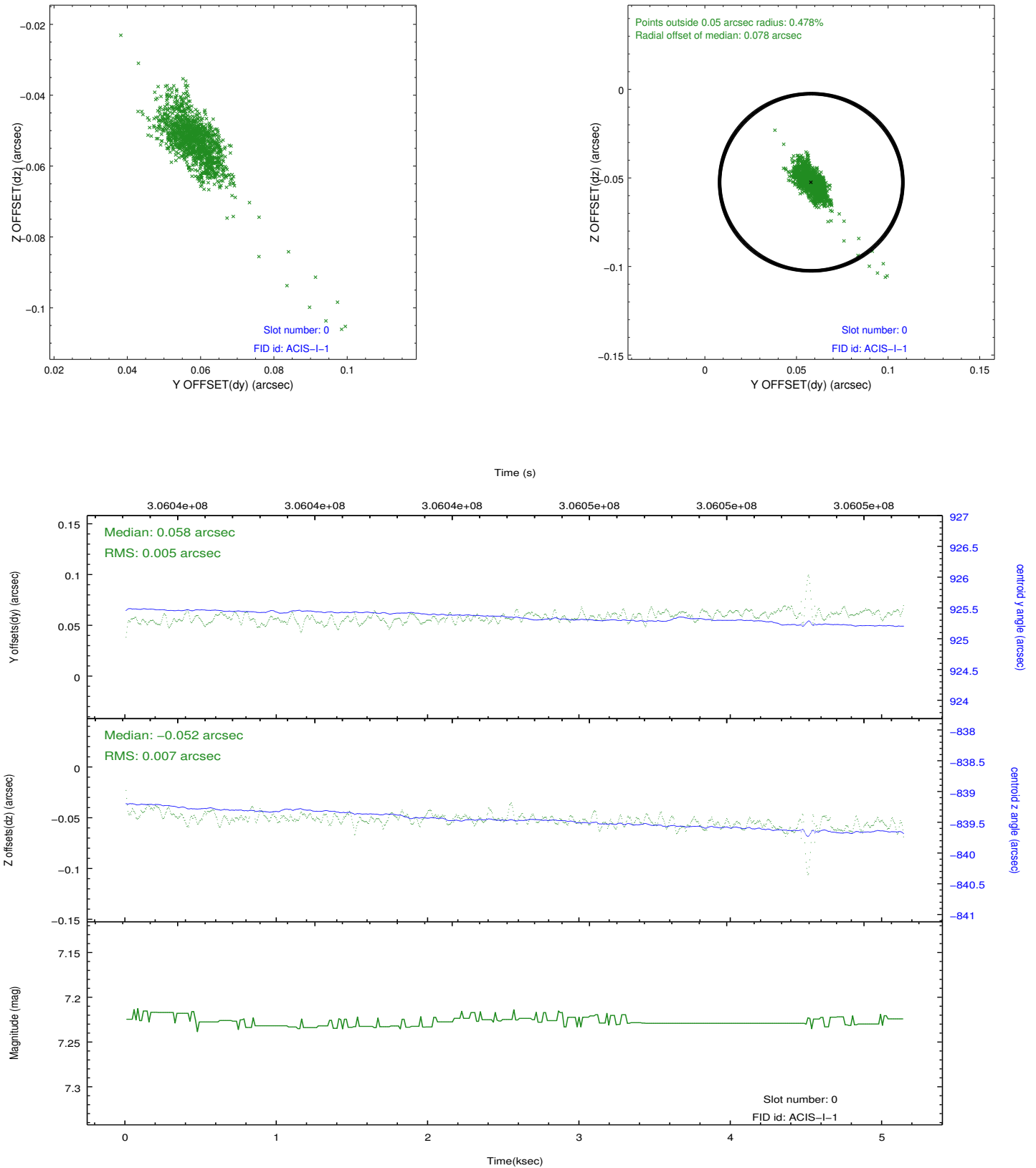


## 2.4.5 Slot 7

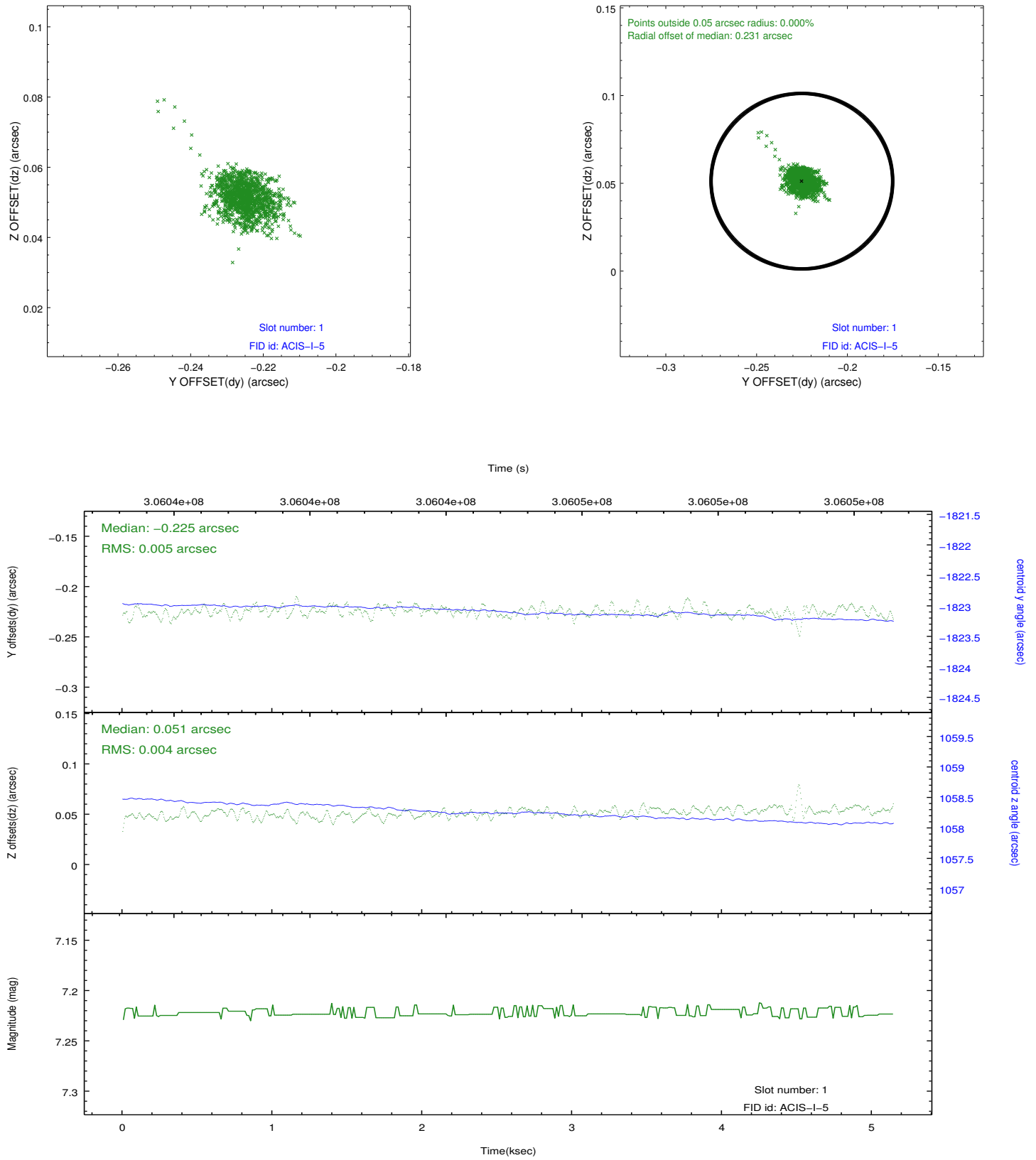


## 2.5 FID Slots

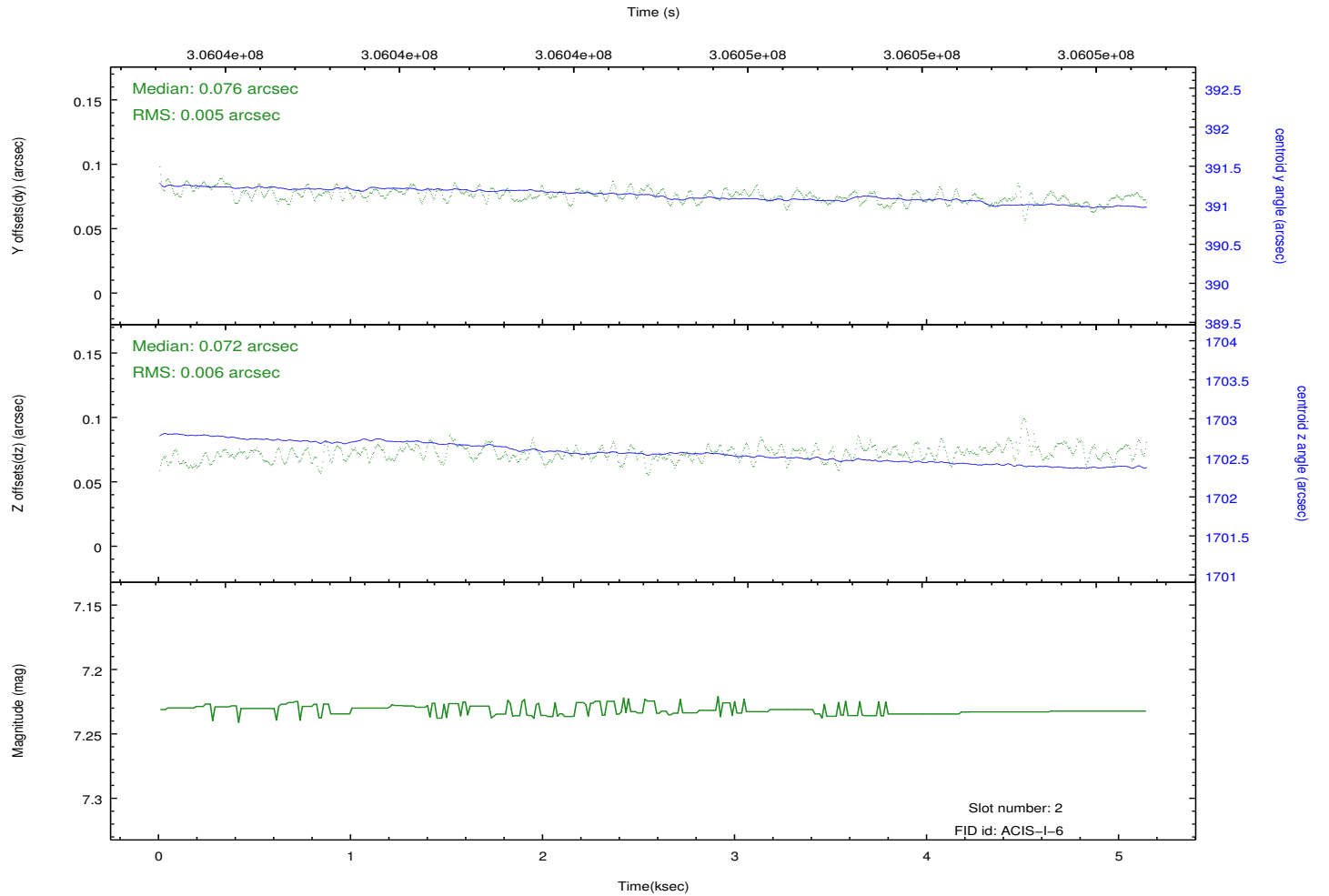
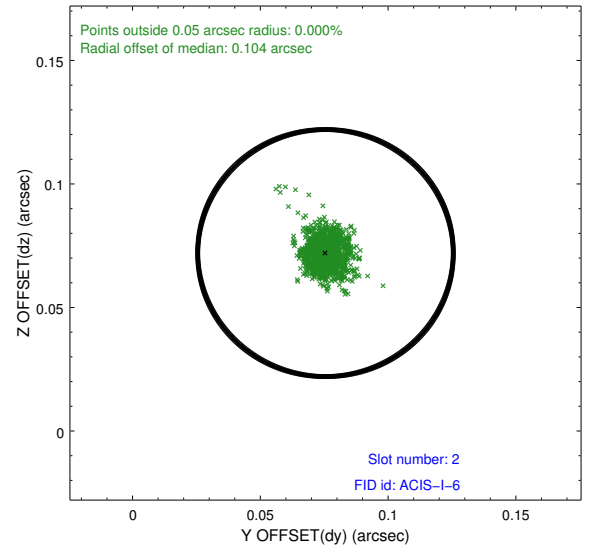
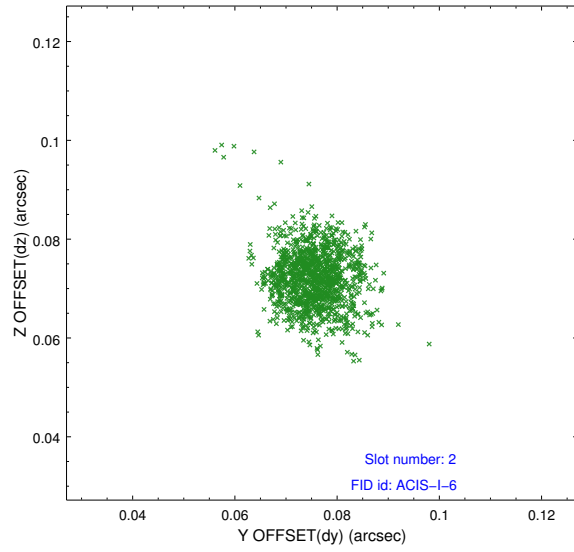
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.13355907

### A.2 Comments