

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10016 - L2 Version 2  
Chandra X-Ray Center

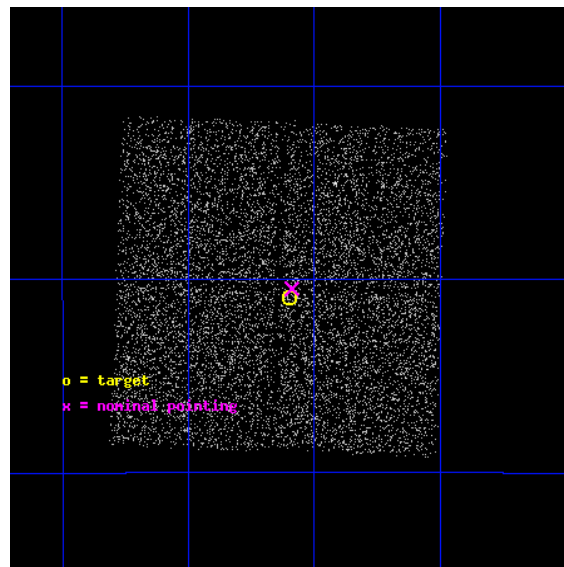
L2 Processing Date : Jun 1 2012

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# 1 Front

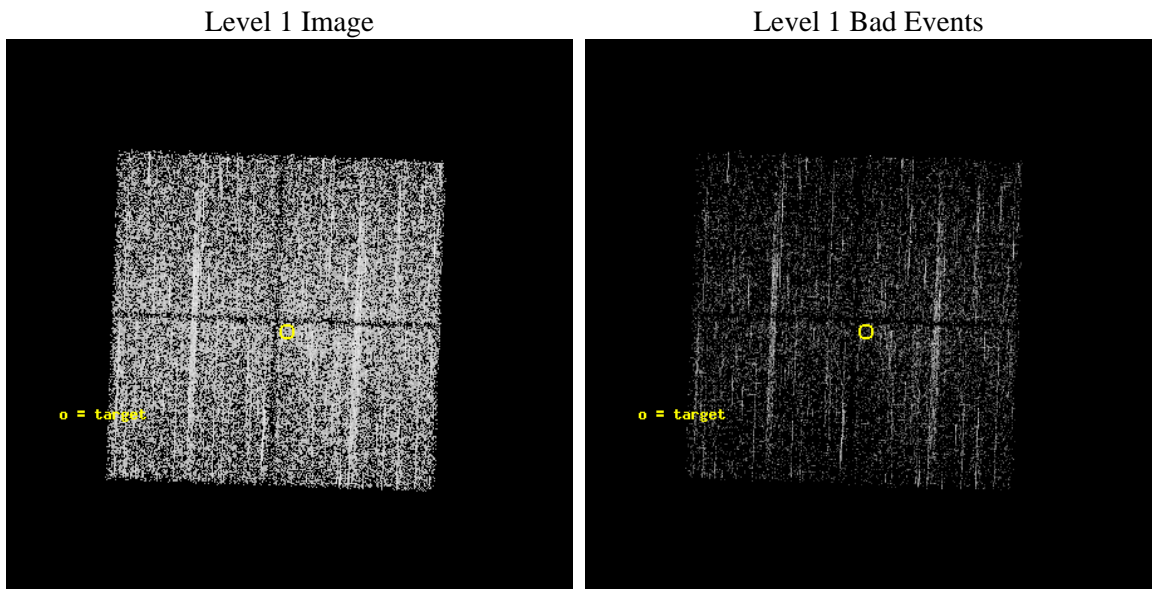
seq_num	400980	Sequence number
obs_id	10016	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS6-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.150417	Observer's specified target RA [deg]
dec_targ	-28.515861	Observer's specified target Dec [deg]
ra_nom	264.14739447226	Nominal RA [deg]
dec_nom	-28.508291420328	Nominal Dec [deg]
roll_nom	92.124399565261	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.3590564728	Sum of GTIs [s]
livetime	2153.8449287706	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2182.3590564728	Sum of GTIs [s]
l2events	10535	Number of level 2 events



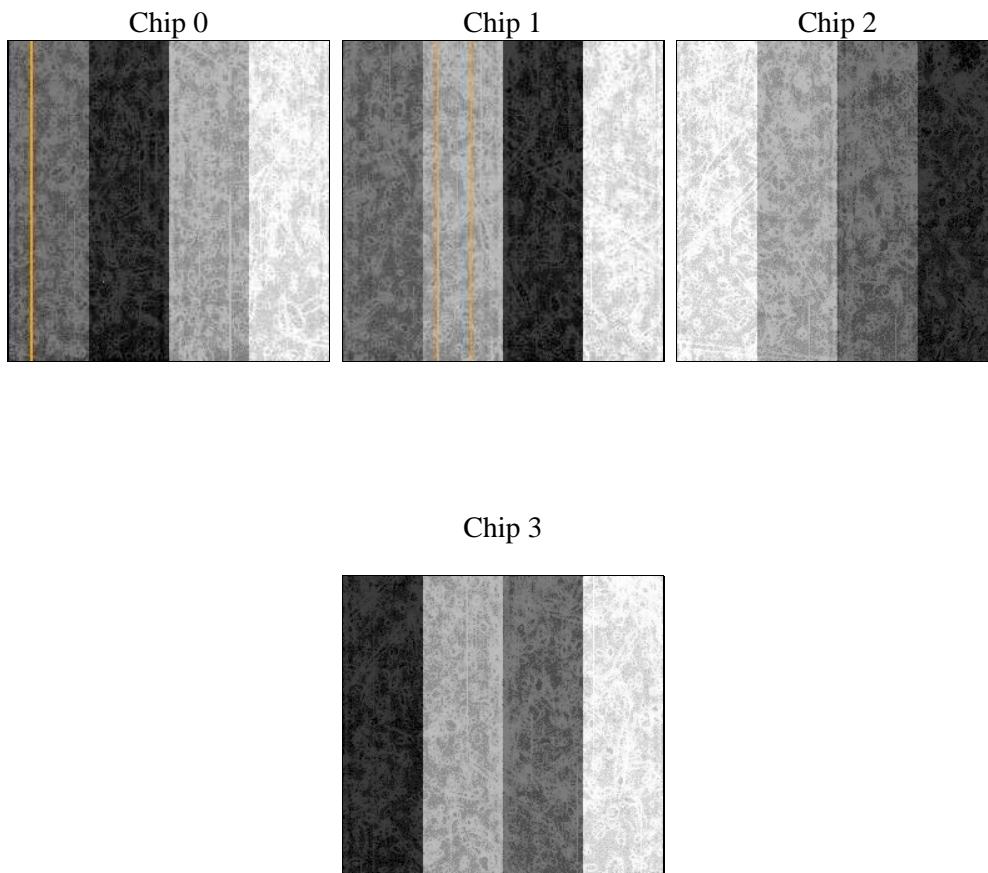
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2182.3590564728	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-06-01T05:59:33	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2182.3590564728	Sum of GTIs [s]
			l1events	98199	Number of level 1 events

### 2.1.4 Events

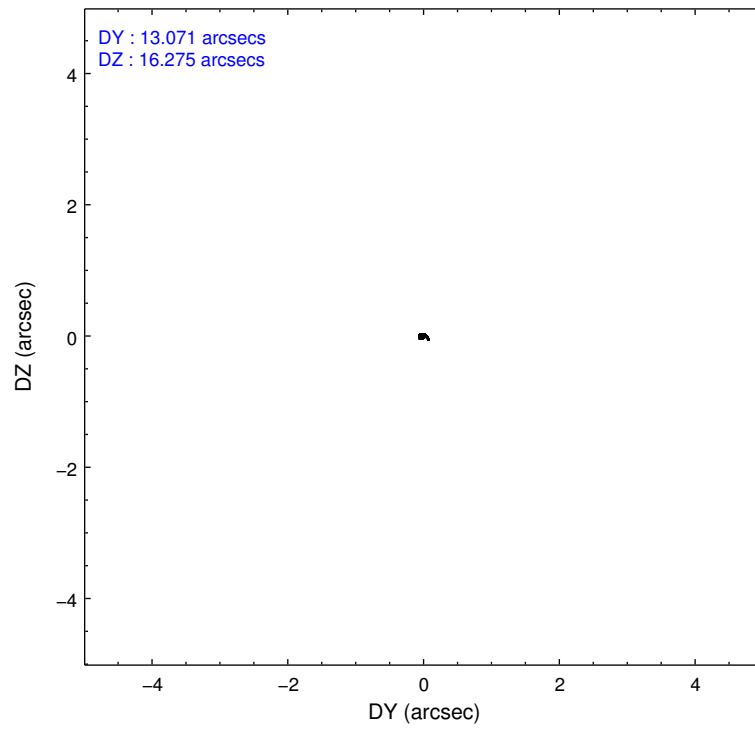
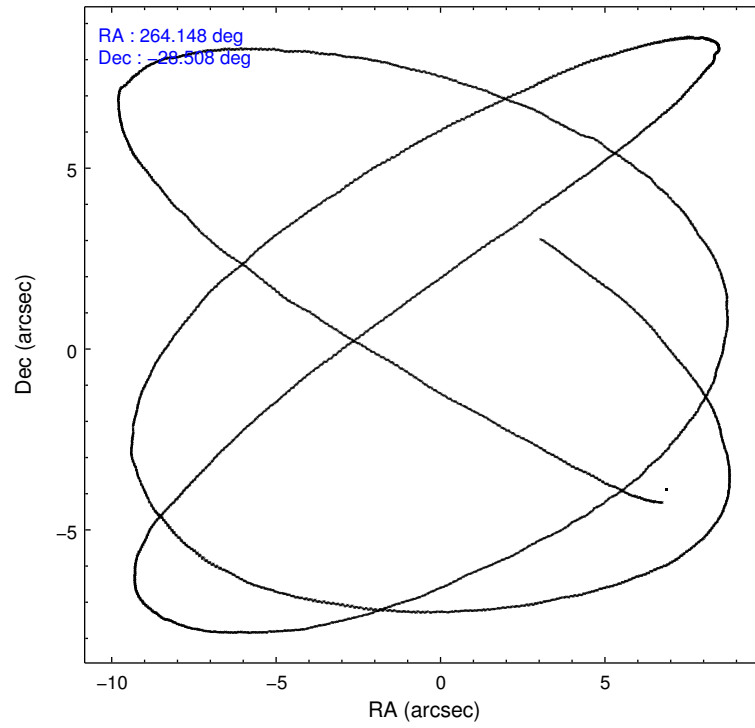
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	23030	24204	25182	25783
rejected events	20052	21033	22181	22788
rejected %	87%	86%	88%	88%

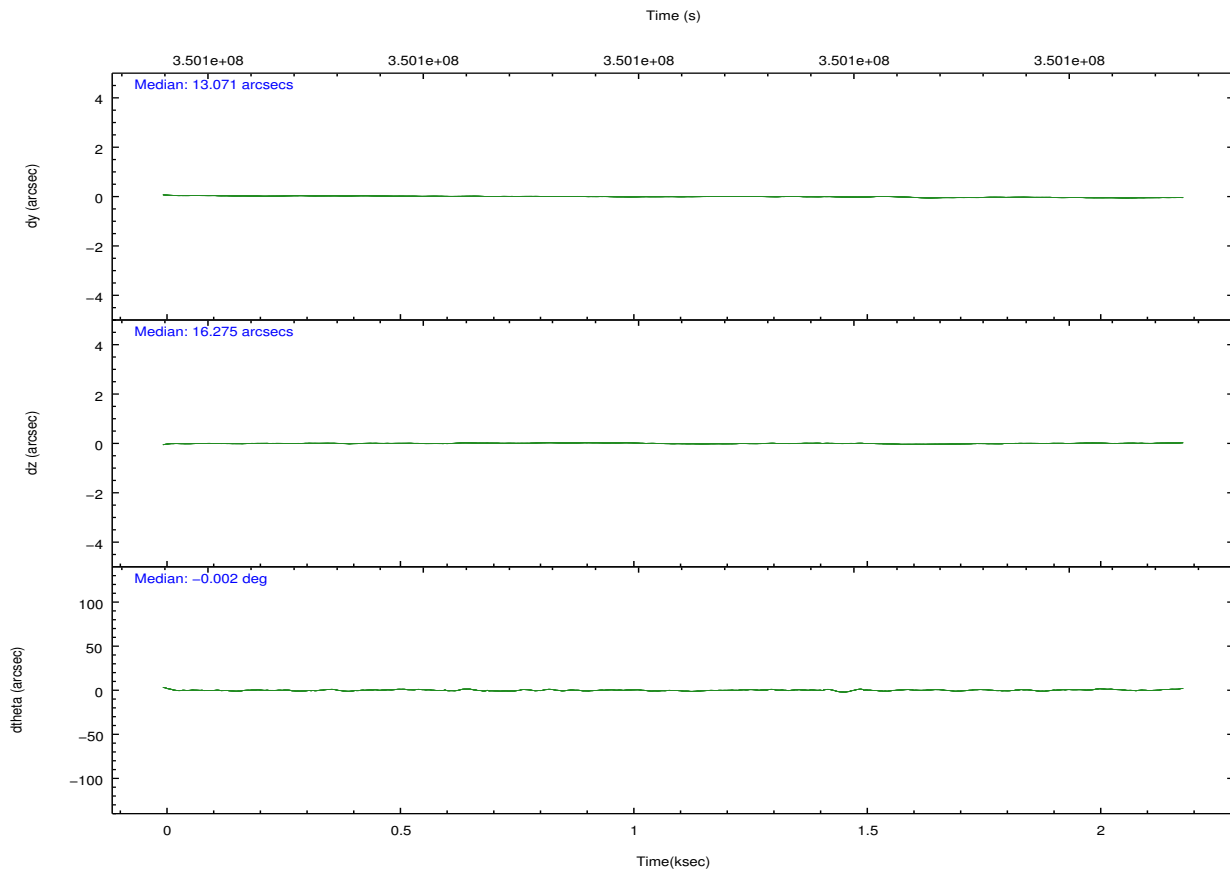
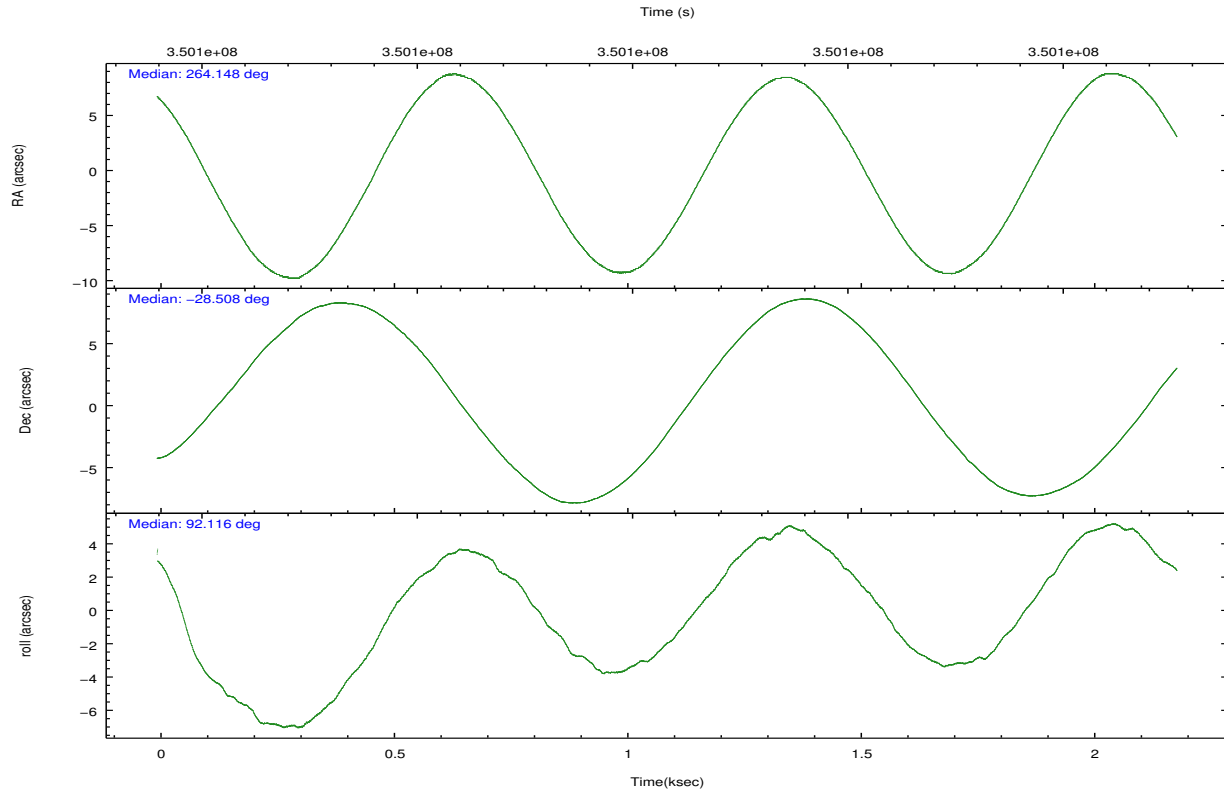
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1518	1546	1641	1633
	6%	6%	6%	6%
grade 1 events	19	15	16	15
	0%	0%	0%	0%
grade 2 events	769	792	684	634
	3%	3%	2%	2%
grade 3 events	310	332	269	283
	1%	1%	1%	1%
grade 4 events	296	329	331	329
	1%	1%	1%	1%
grade 5 events	1062	1178	1039	1218
	4%	4%	4%	4%
grade 6 events	529	628	507	570
	2%	2%	2%	2%
grade 7 events	18527	19384	20695	21101
	80%	80%	82%	81%

## 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	264.164110	264.1473944722582	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.531464	-28.50829142032848	Alternating exposures requested	N	N
[deg] Pointing Roll	91.923716	92.12439956526097	[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)	350097168.184000	350096792.24328			
Observation start date	2009-02-04T01:11:42	2009-02-04T01:06:32			
[s] Observation end time (MET)	350099168.184000	350099301.95591			
Observation end date	2009-02-04T01:45:02	2009-02-04T01:48:21			
Read mode	TIMED	TIMED			

## 2.3 Aspect



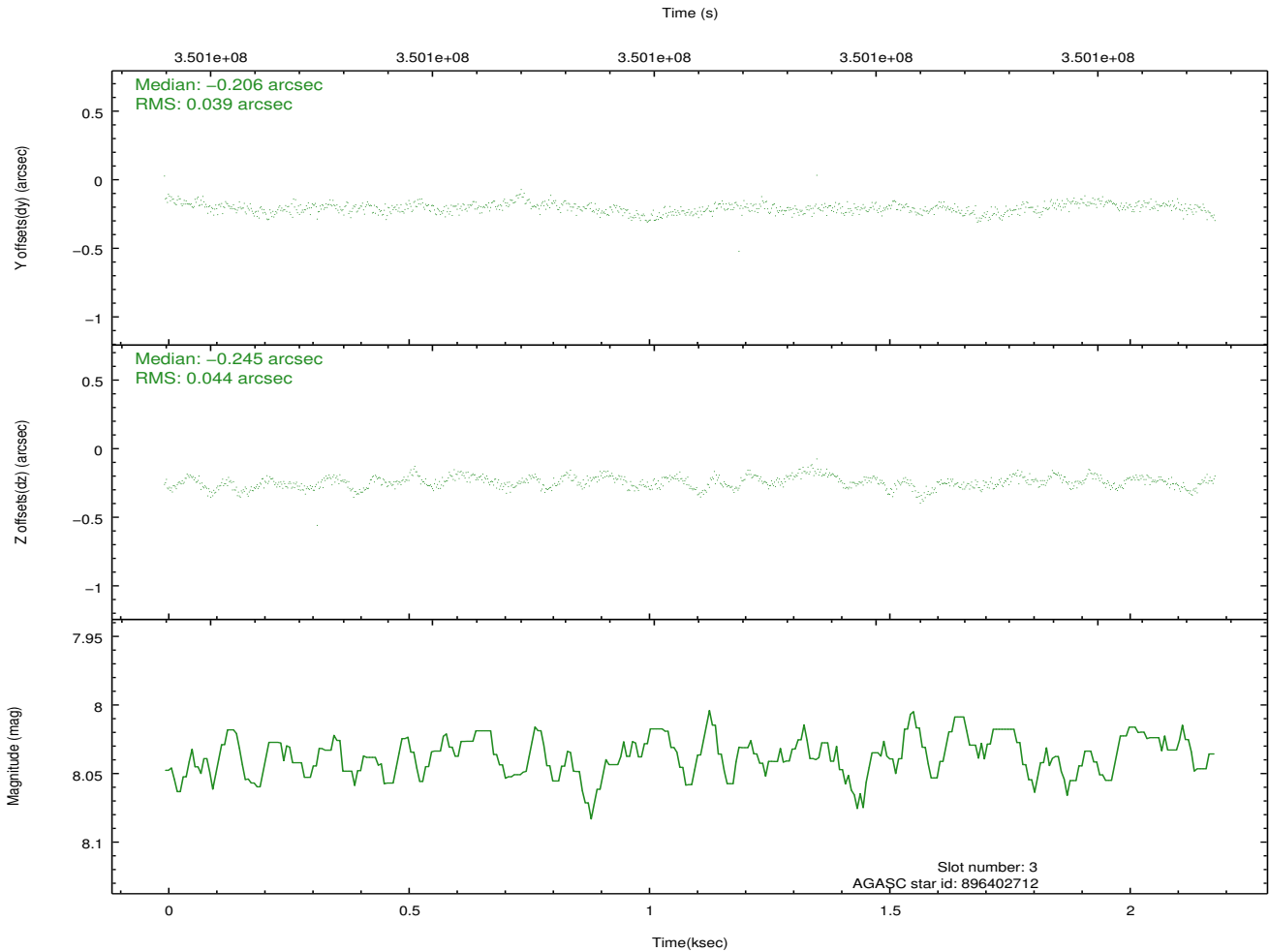
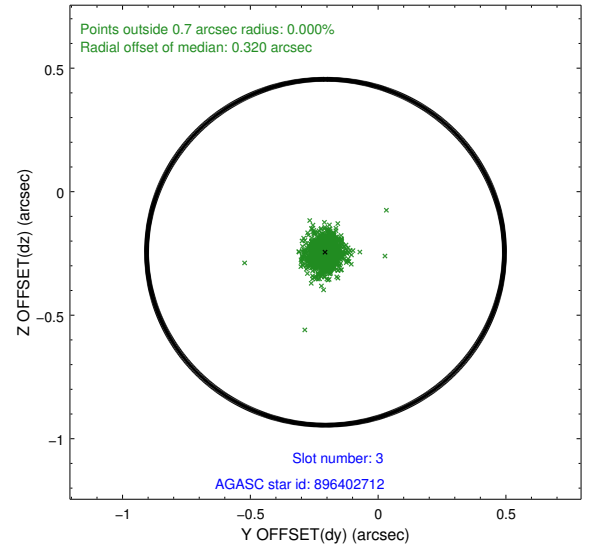
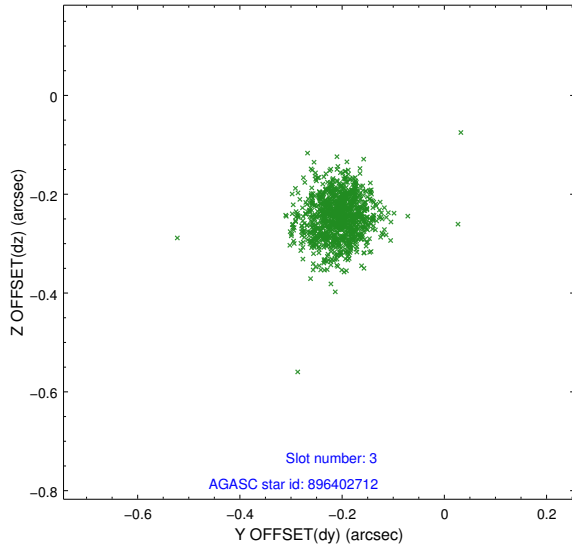


### Slot Statistics

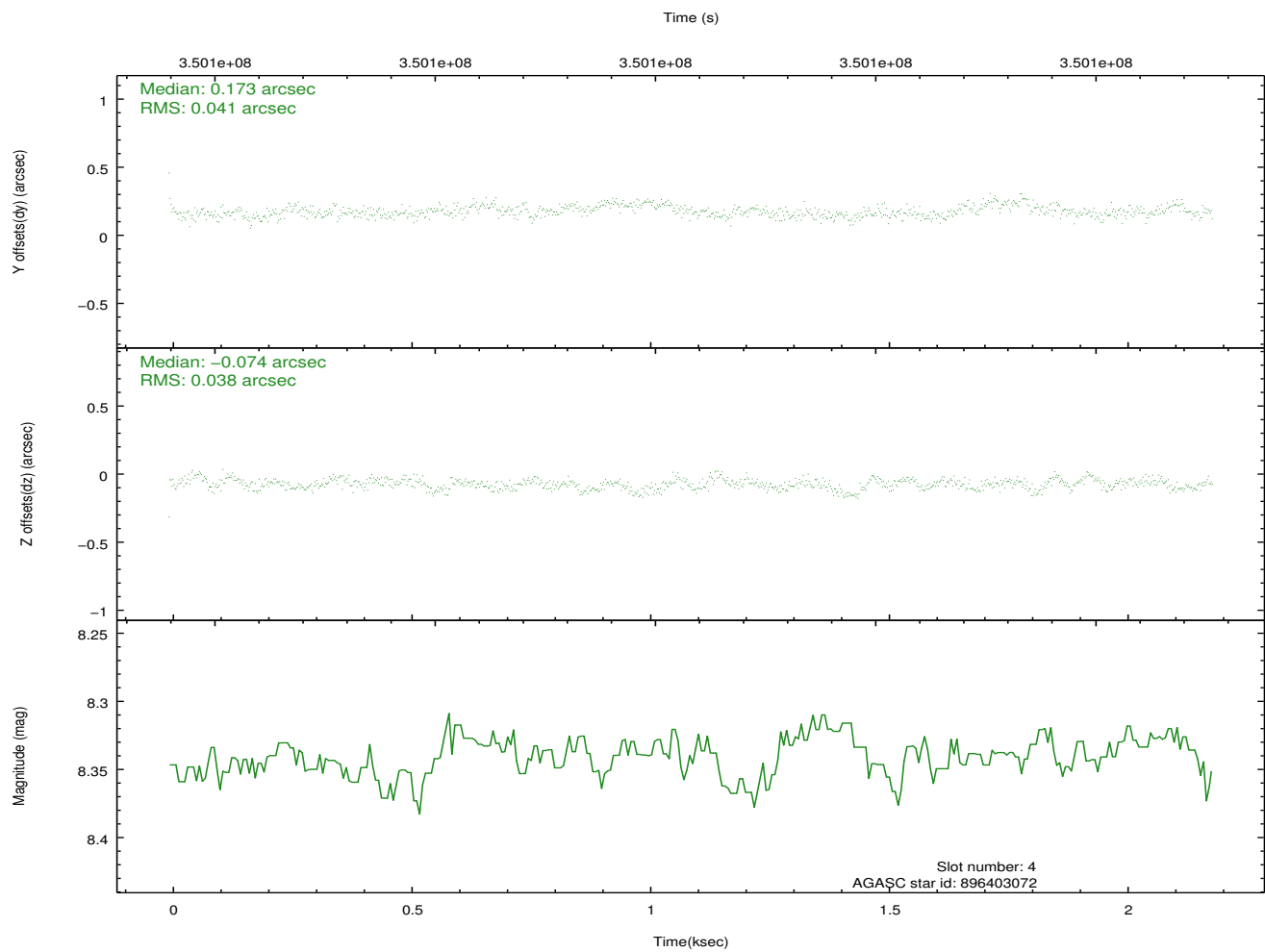
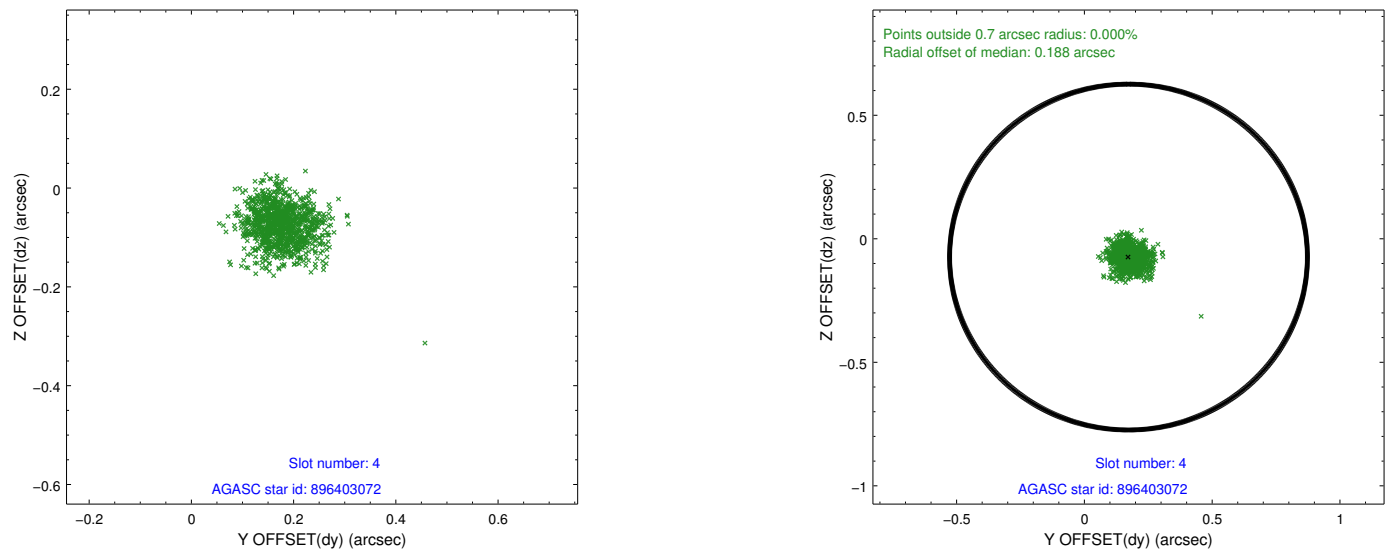
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.93	533	-0.081	-0.095	0.009	0.017	0.000000	0.000000	-767.81	-846.37
1	FID	ACIS-I-4	6.93	533	0.176	0.076	0.006	0.010	0.000000	0.000000	2145.13	1058.47
2	FID	ACIS-I-5	6.99	533	-0.196	0.088	0.008	0.016	0.000000	0.000000	-1817.93	1059.72
3	GUIDE	896402712	8.04	1067	-0.206	-0.245	0.060	0.096	263.793333	-28.203661	1217.23	1136.31
4	GUIDE	896403072	8.34	1067	0.173	-0.074	0.060	0.095	263.956439	-28.943077	-1457.88	704.68
5	GUIDE	896405048	8.28	1067	-0.068	-0.004	0.065	0.109	264.482575	-28.152230	1328.42	-1054.97
6	GUIDE	896405616	7.84	1064	-0.016	0.168	0.073	0.117	264.752771	-28.412560	362.01	-1876.89
7	GUIDE	896405976	9.09	1064	0.111	0.154	0.090	0.144	264.638127	-28.604395	-314.50	-1489.82

## 2.4 Star Slots

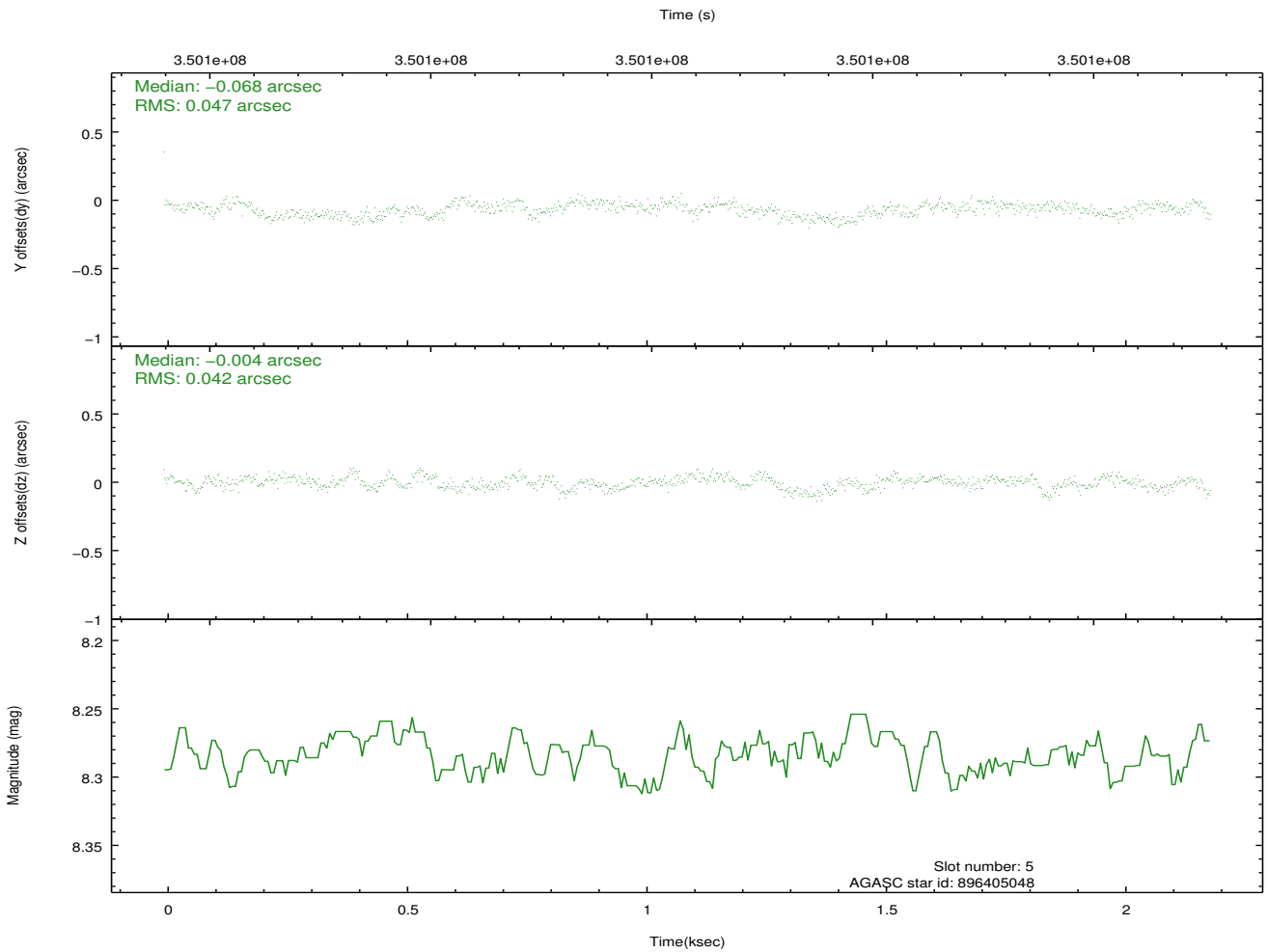
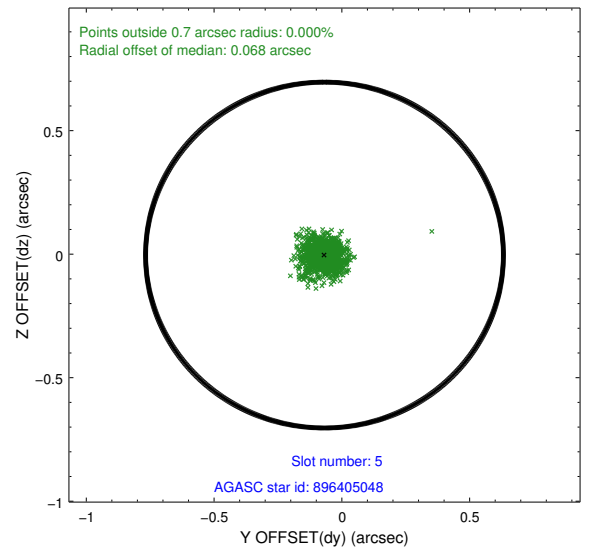
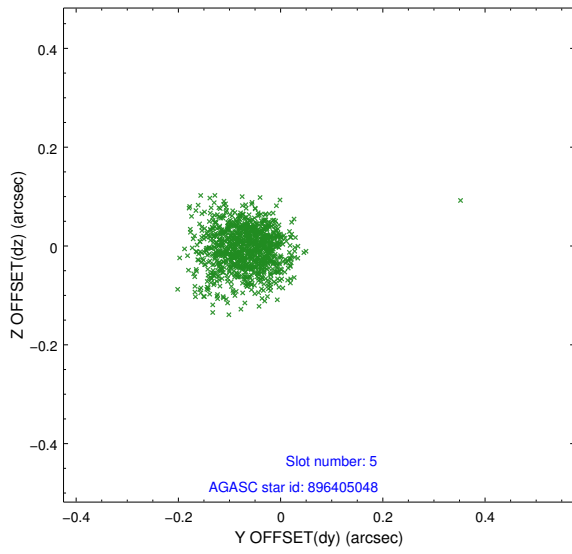
### 2.4.1 Slot 3



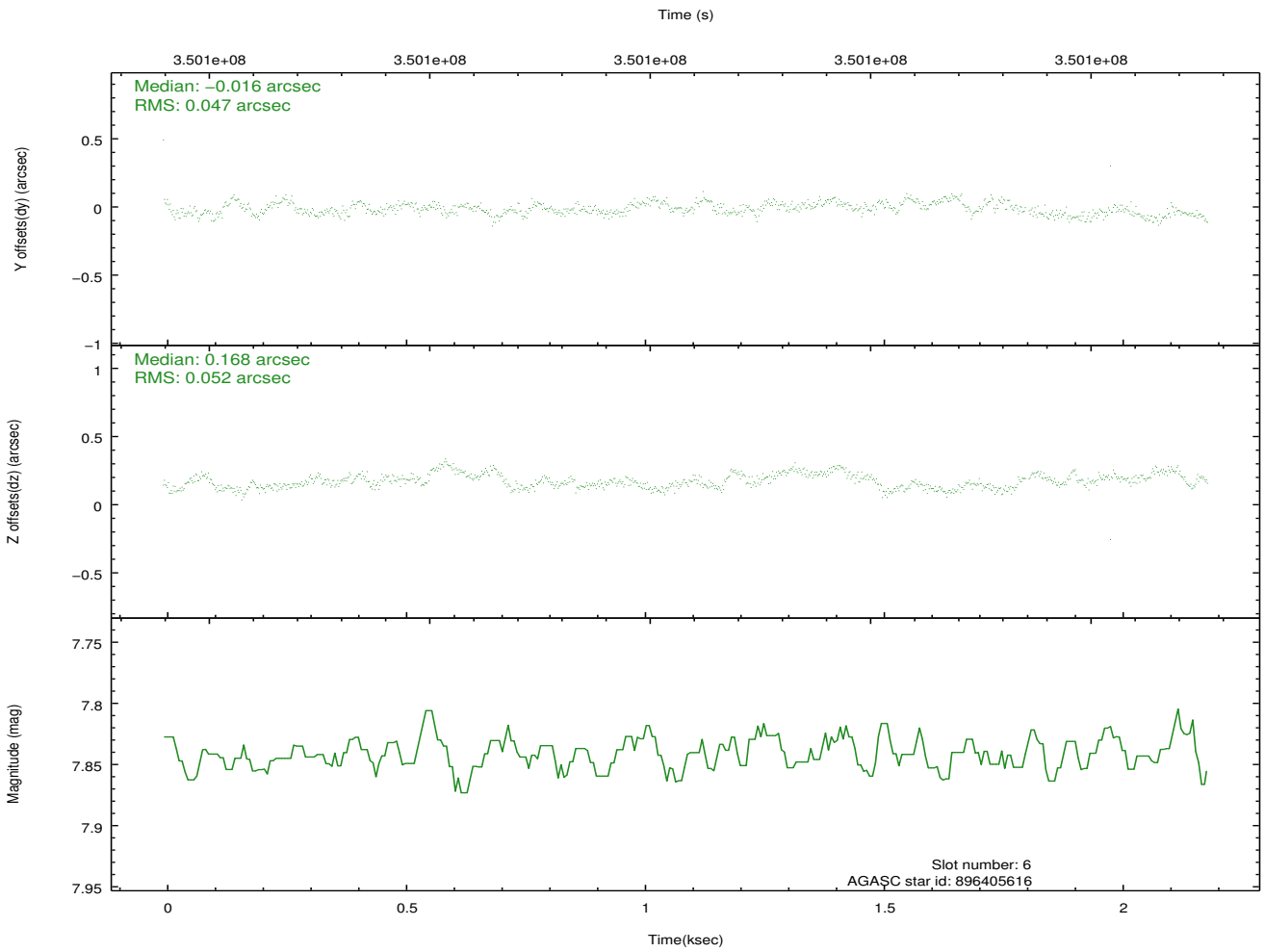
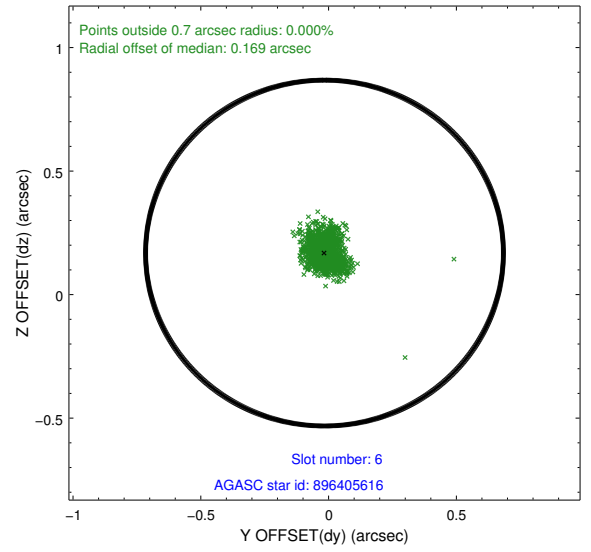
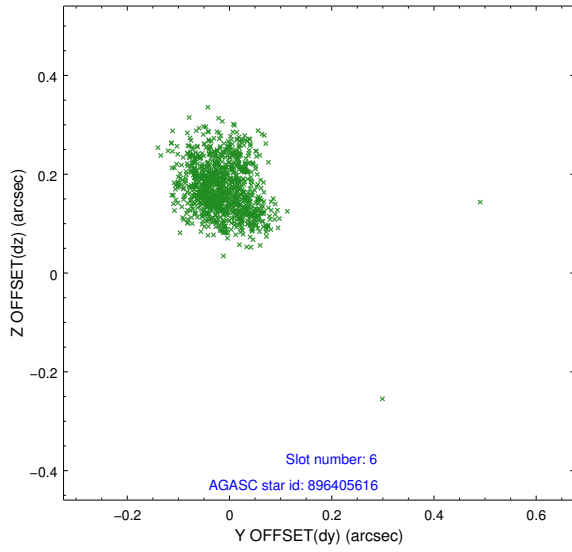
## 2.4.2 Slot 4



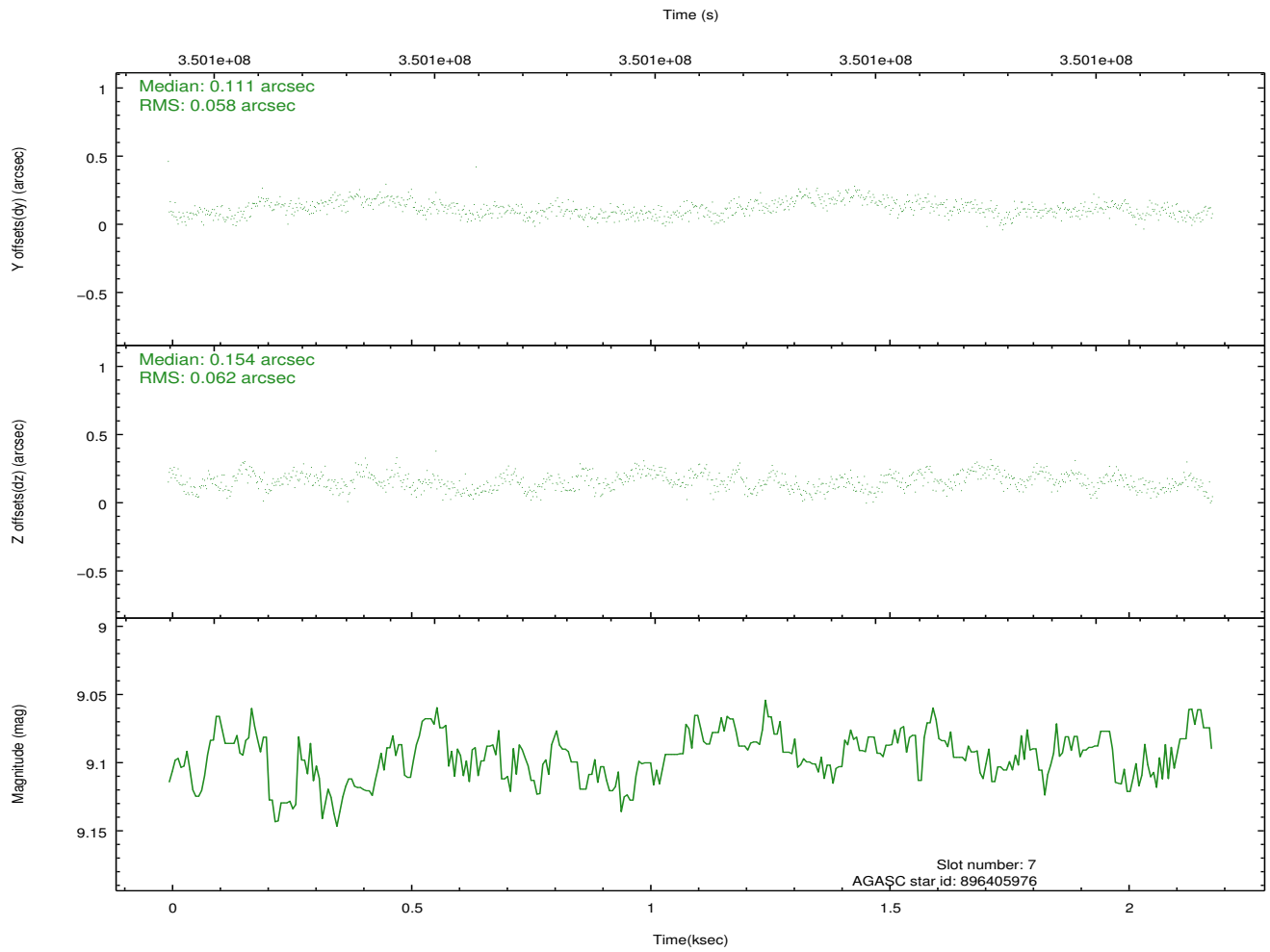
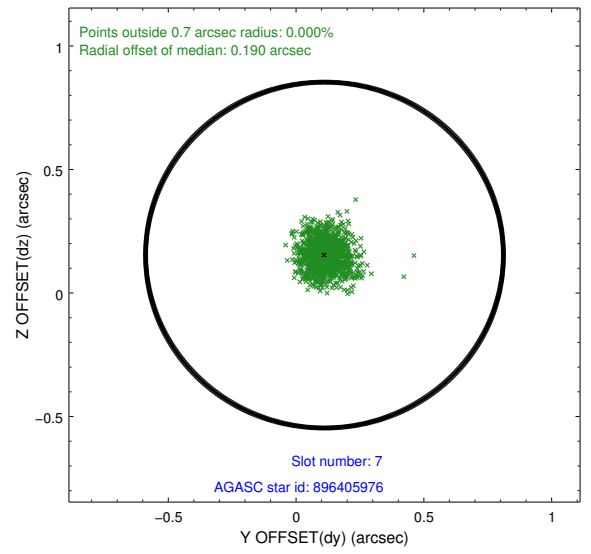
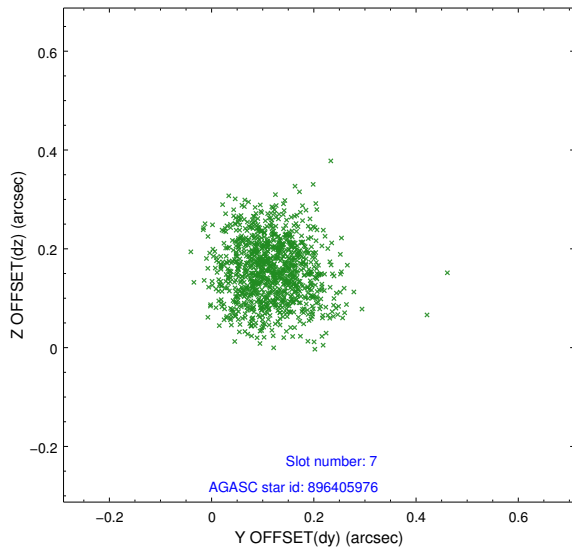
### 2.4.3 Slot 5



### 2.4.4 Slot 6

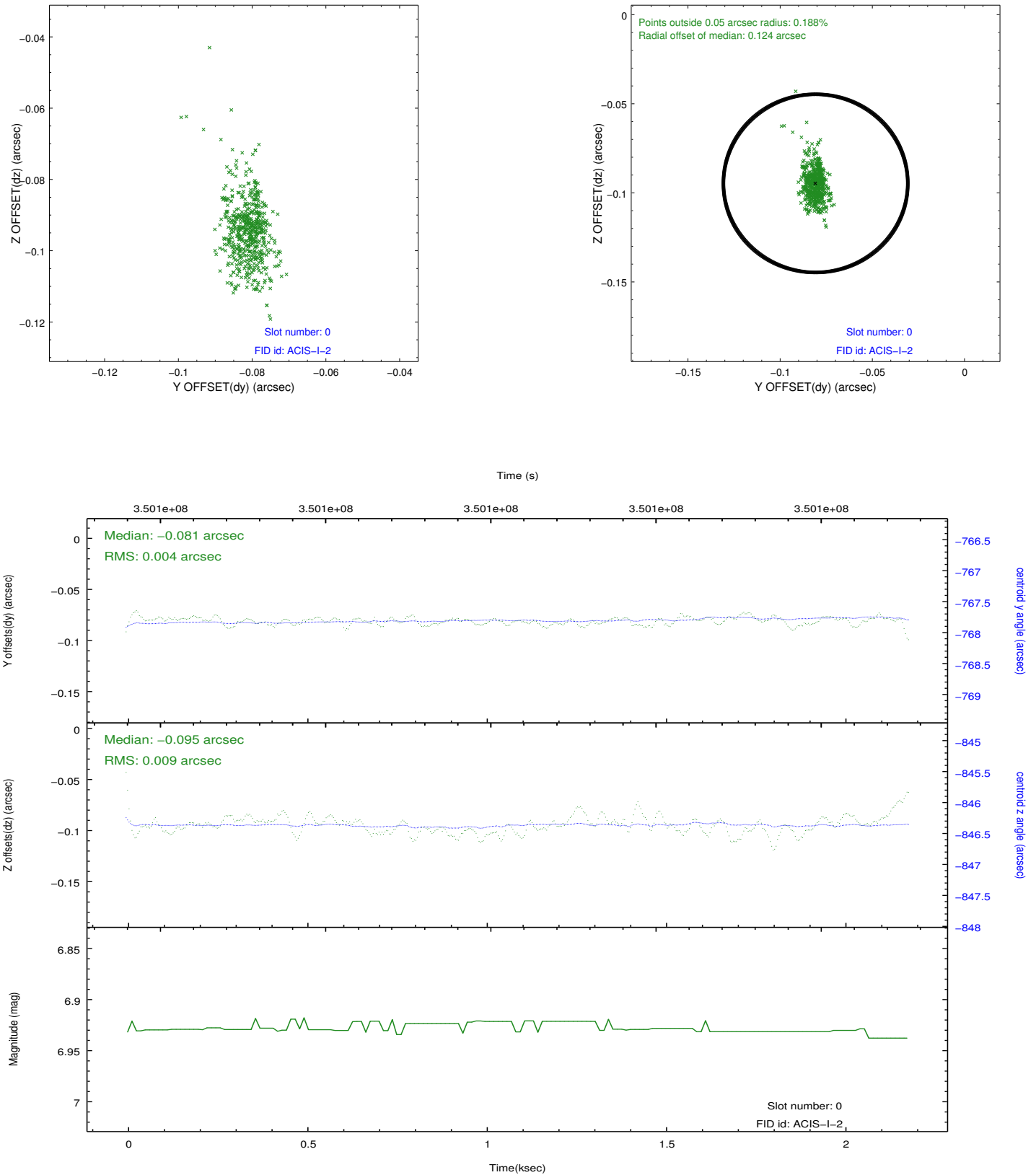


### 2.4.5 Slot 7

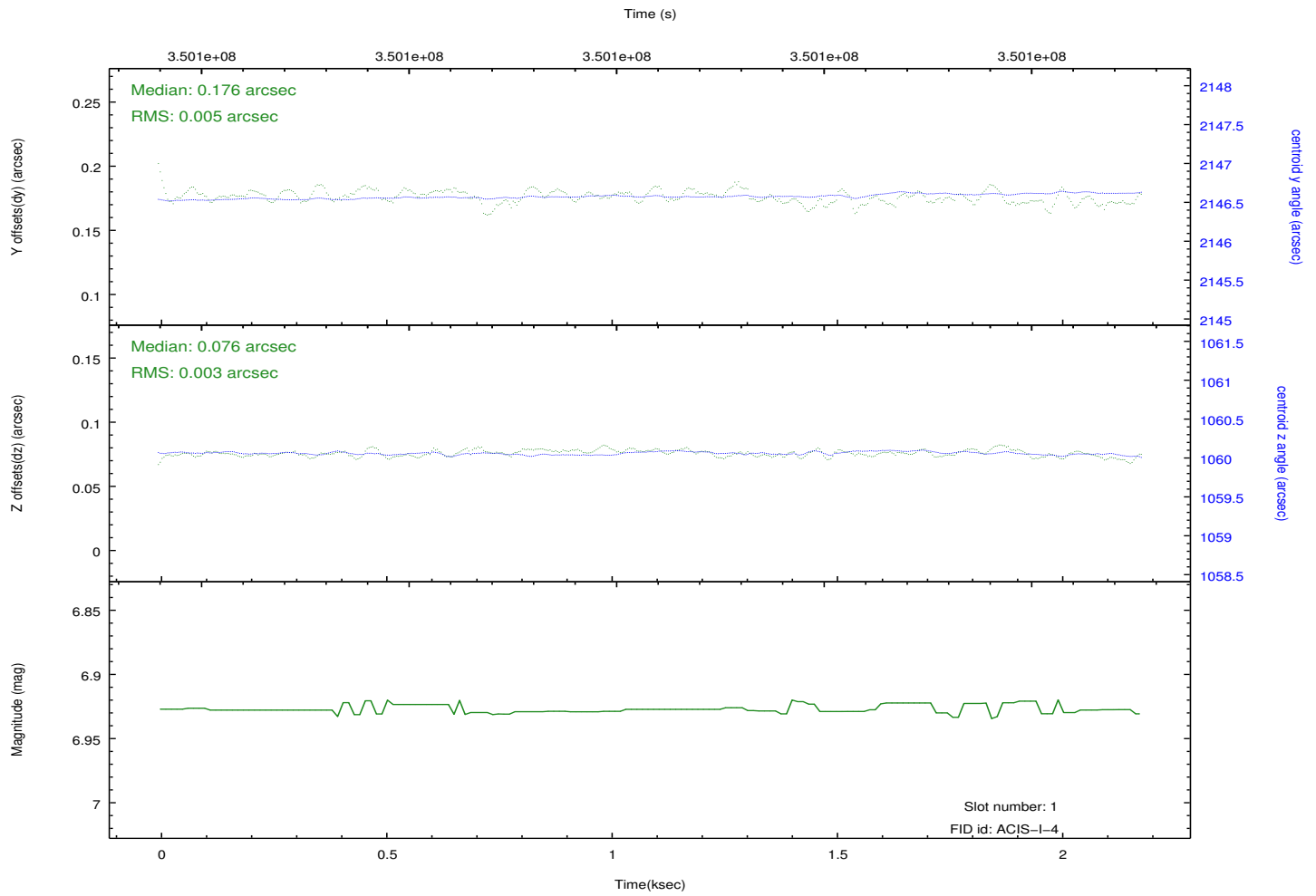
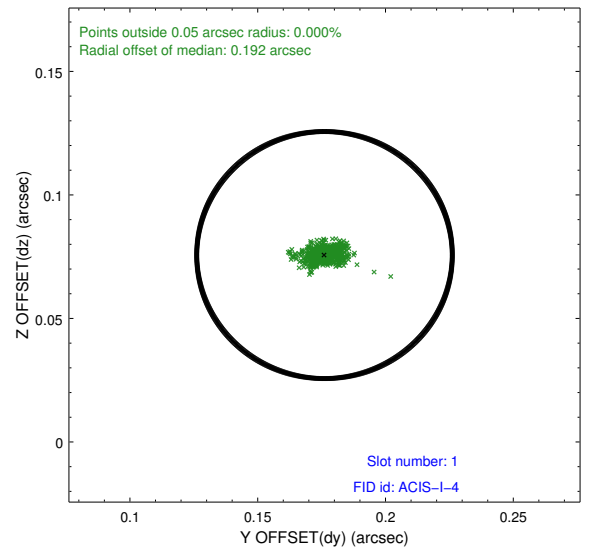
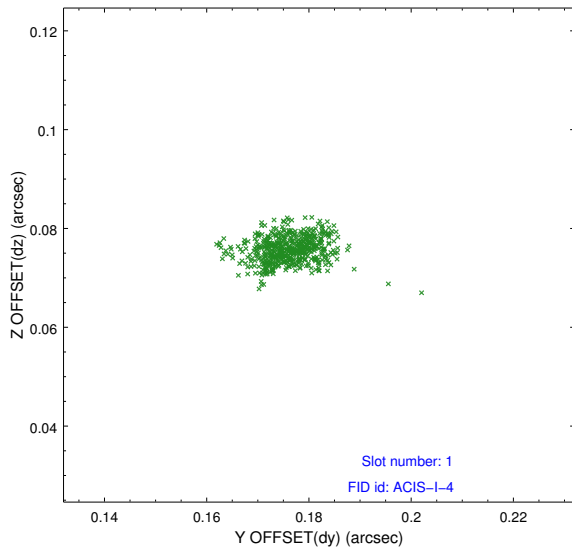


## 2.5 FID Slots

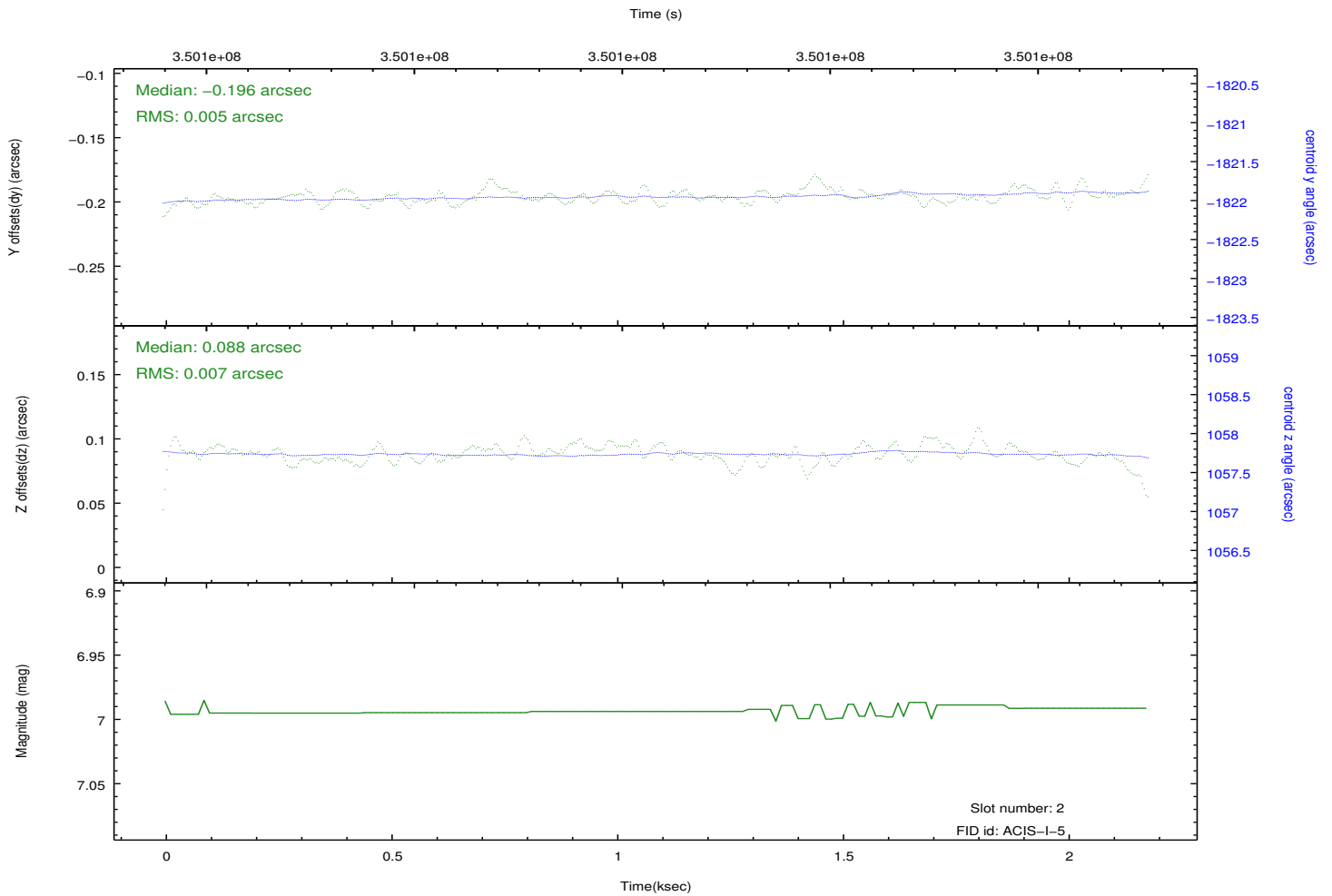
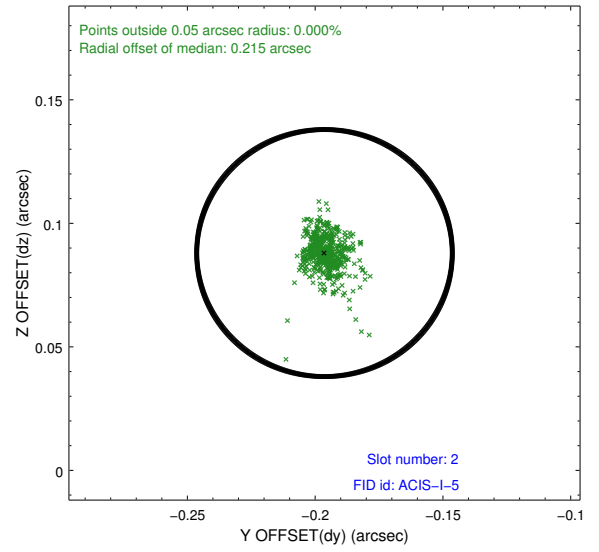
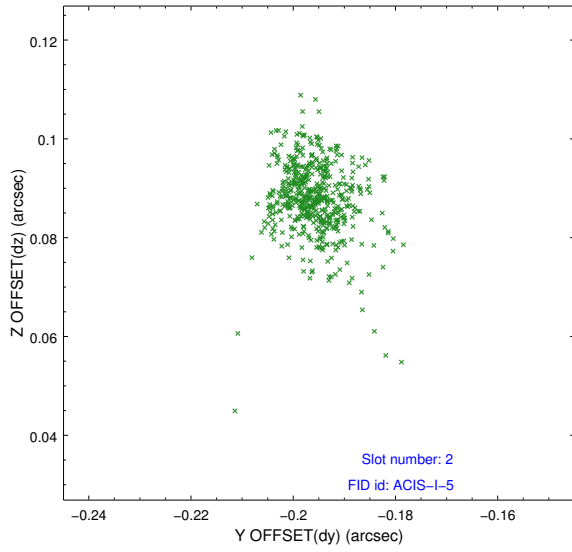
### 2.5.1 Slot 0



## 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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18235905

## A.2 Comments

Joint Proposal: NOAO