

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 894 - L2 Version 3  
Chandra X-Ray Center

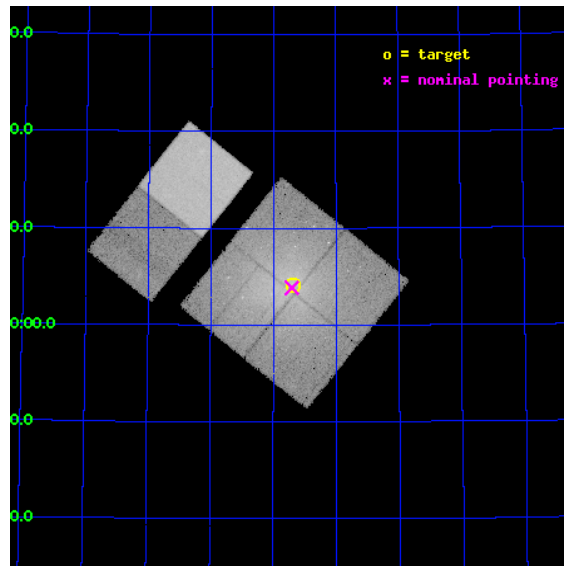
L2 Processing Date : Sep 2 2012

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# 1 Front

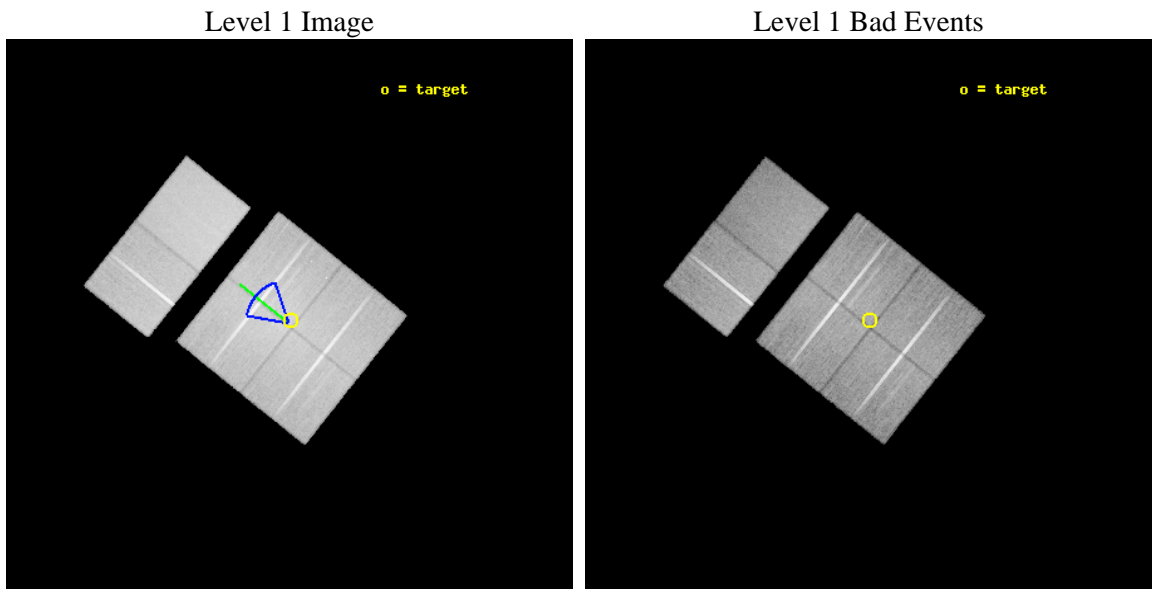
seq_num	800070	Sequence number
obs_id	894	Observation id
title	AXAF OBSERVATIONS OF CLUSTERS WITH RADIO HALOS	Proposal title
observer	Dr. David Davis	Principal investigator
object	ABELL 2255	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.172917	Observer's specified target RA [deg]
dec_targ	64.068889	Observer's specified target Dec [deg]
ra_nom	258.17589031393	Nominal RA [deg]
dec_nom	64.064212899267	Nominal Dec [deg]
roll_nom	308.68460082817	Nominal Roll [deg]
revision	3	Processing version of data
ontime	39935.959076941	Sum of GTIs [s]
livetime	39430.265916561	Livetime [s]
ontime0	39932.718146622	Sum of GTIs [s]
ontime1	39935.959106863	Sum of GTIs [s]
ontime2	39932.718096778	Sum of GTIs [s]
ontime3	39935.959076941	Sum of GTIs [s]
ontime6	39935.959106863	Sum of GTIs [s]
ontime7	39935.959076941	Sum of GTIs [s]
l2events	351369	Number of level 2 events



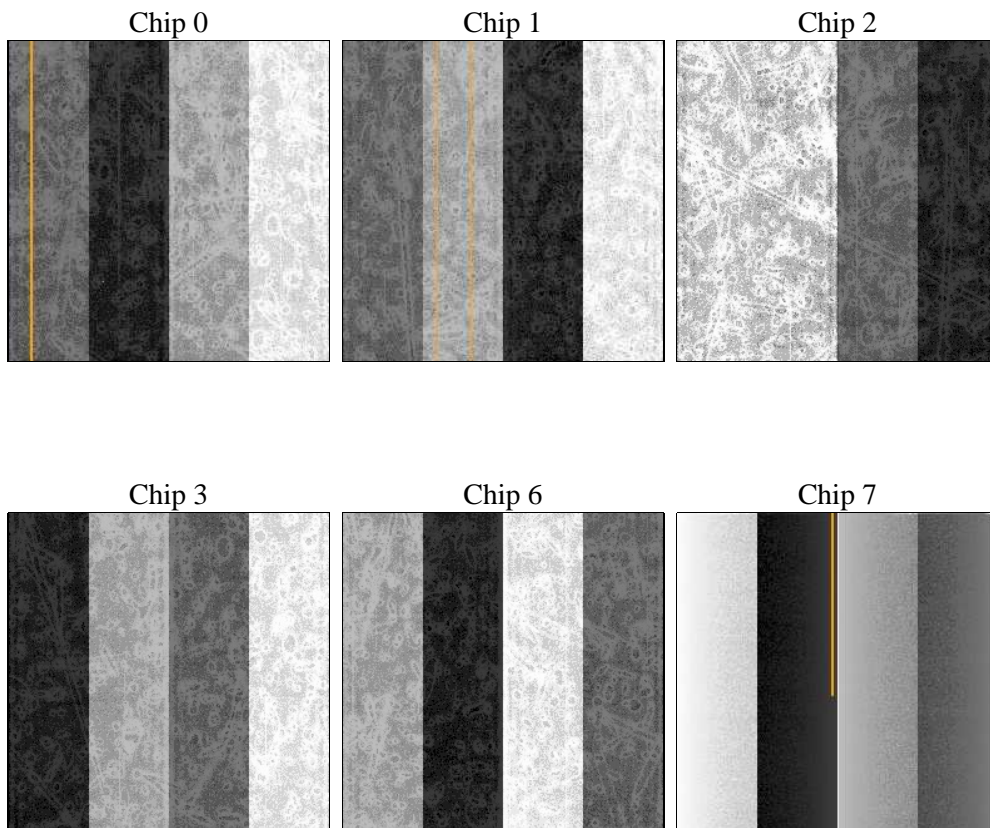
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39935.959076941	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime0	39932.718146622	Sum of GTIs [s]
date	2012-09-02T11:12:26	Date and time of file creation	ontime1	39935.959106863	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	39932.718096778	Sum of GTIs [s]
			ontime3	39935.959076941	Sum of GTIs [s]
			ontime6	39935.959106863	Sum of GTIs [s]
			ontime7	39935.959076941	Sum of GTIs [s]
			l1events	1670830	Number of level 1 events

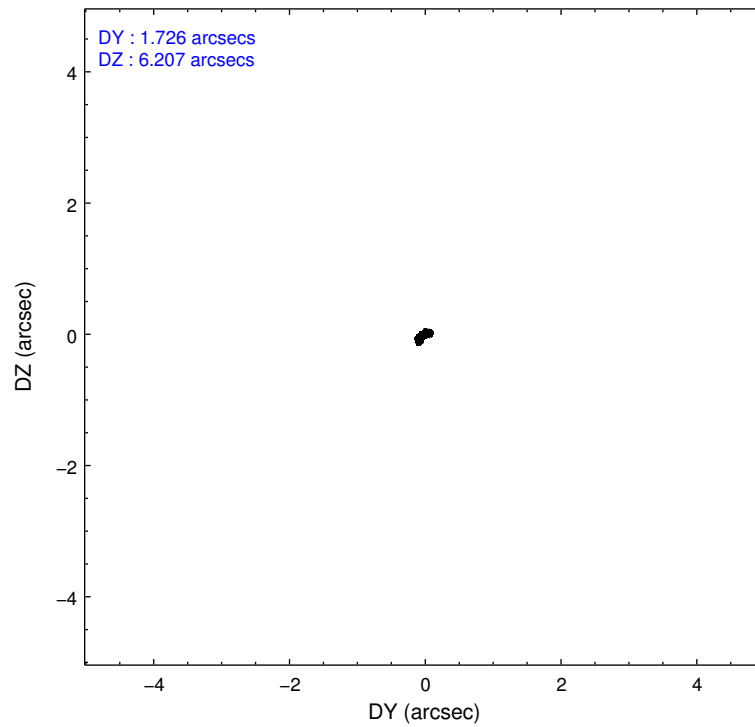
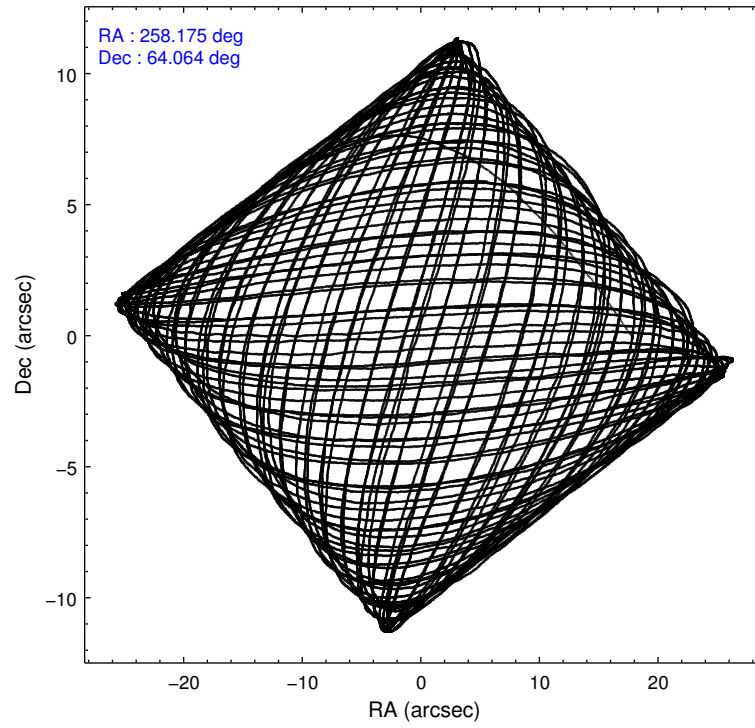
### 2.1.4 Events

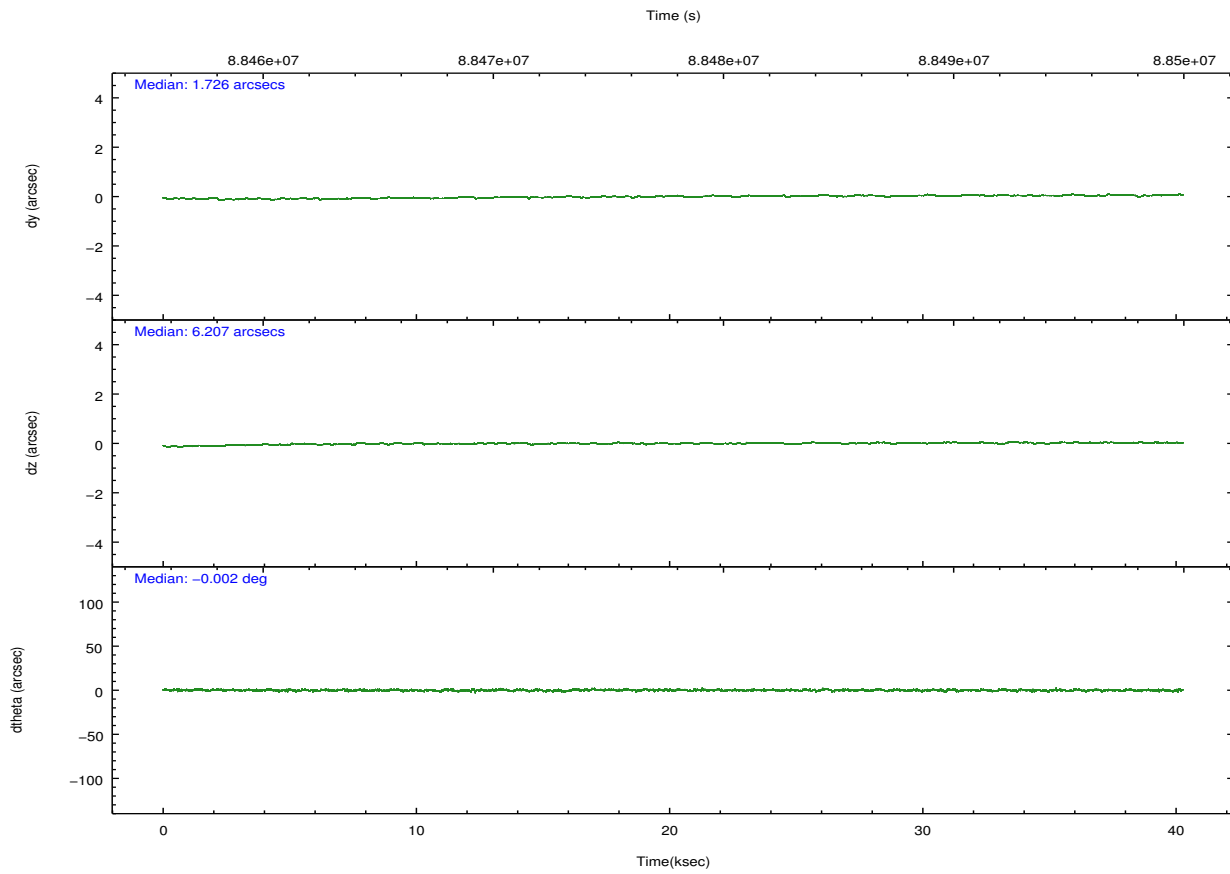
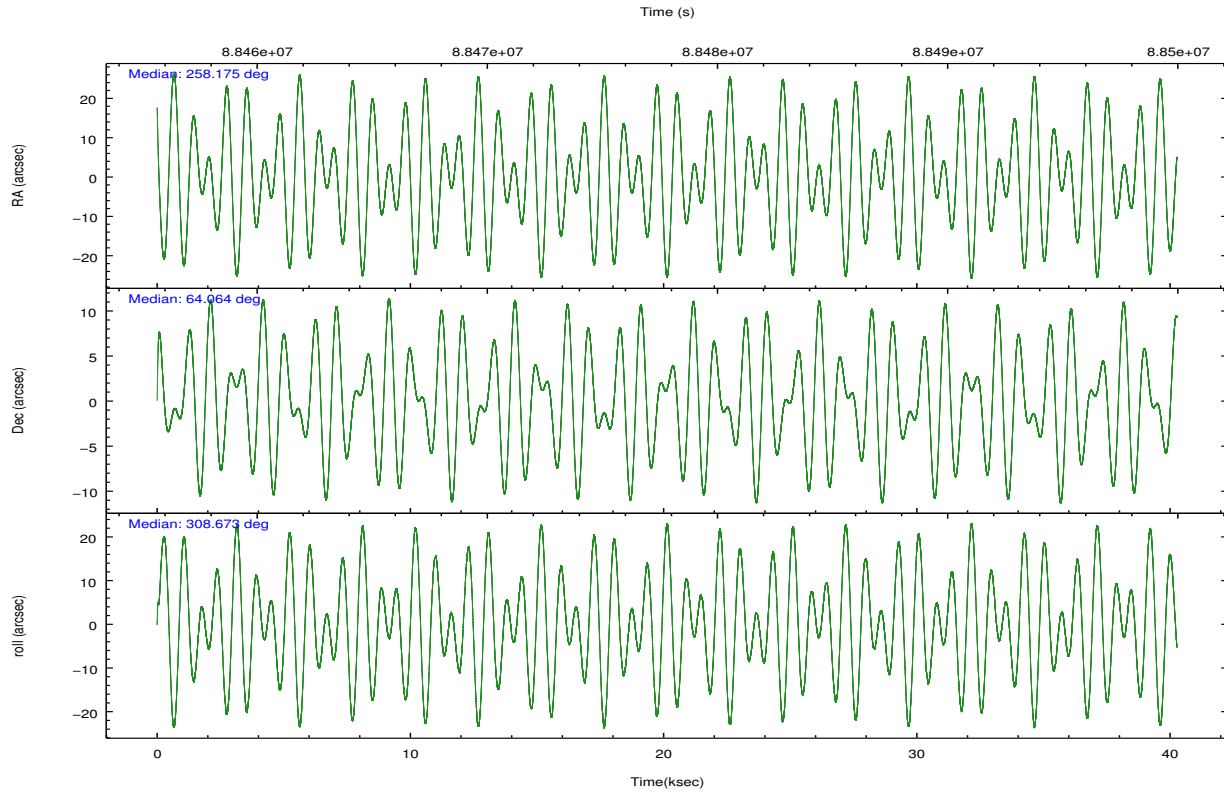
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	253429	251202	295249	283177	266161	321612	grade 0 events	26705	27732	42049	34950	12260	13720
rejected events	207158	202447	231163	227328	236594	184486		10%	11%	14%	12%	4%	4%
rejected %	81%	80%	78%	80%	88%	57%	grade 1 events	181	180	248	230	135	310
								0%	0%	0%	0%	0%	0%
							grade 2 events	7624	7861	9175	8247	5685	27117
								3%	3%	3%	2%	2%	8%
							grade 3 events	3363	3634	3719	3587	3025	12671
								1%	1%	1%	1%	1%	3%
							grade 4 events	3316	3497	3616	3408	2918	12515
								1%	1%	1%	1%	1%	3%
							grade 5 events	8705	9373	8596	9498	10533	30567
								3%	3%	2%	3%	3%	9%
							grade 6 events	5267	6042	5540	5663	5685	71120
								2%	2%	1%	1%	2%	22%
							grade 7 events	198268	192883	222306	217594	225920	153592
								78%	76%	75%	76%	84%	47%

## 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	258.117351	258.1758903139314	Subarray requested	NONE	NONE
[deg] Pointing Dec	64.074253	64.06421289926696	Alternating exposures requested	N	N
[deg] Pointing Roll	308.528559	308.6846008281697	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	310.000000	310.000000			
[deg] Roll tolerance	30.000000	30.000000			
Roll constraint allows 180D rotation	N	N			
[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)	88457943.184000	88456925.45119999			
Observation start date	2000-10-20T19:37:59	2000-10-20T19:22:05			
[s] Observation end time (MET)	88497943.184000	88498819.765285			
Observation end date	2000-10-21T06:44:39	2000-10-21T07:00:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



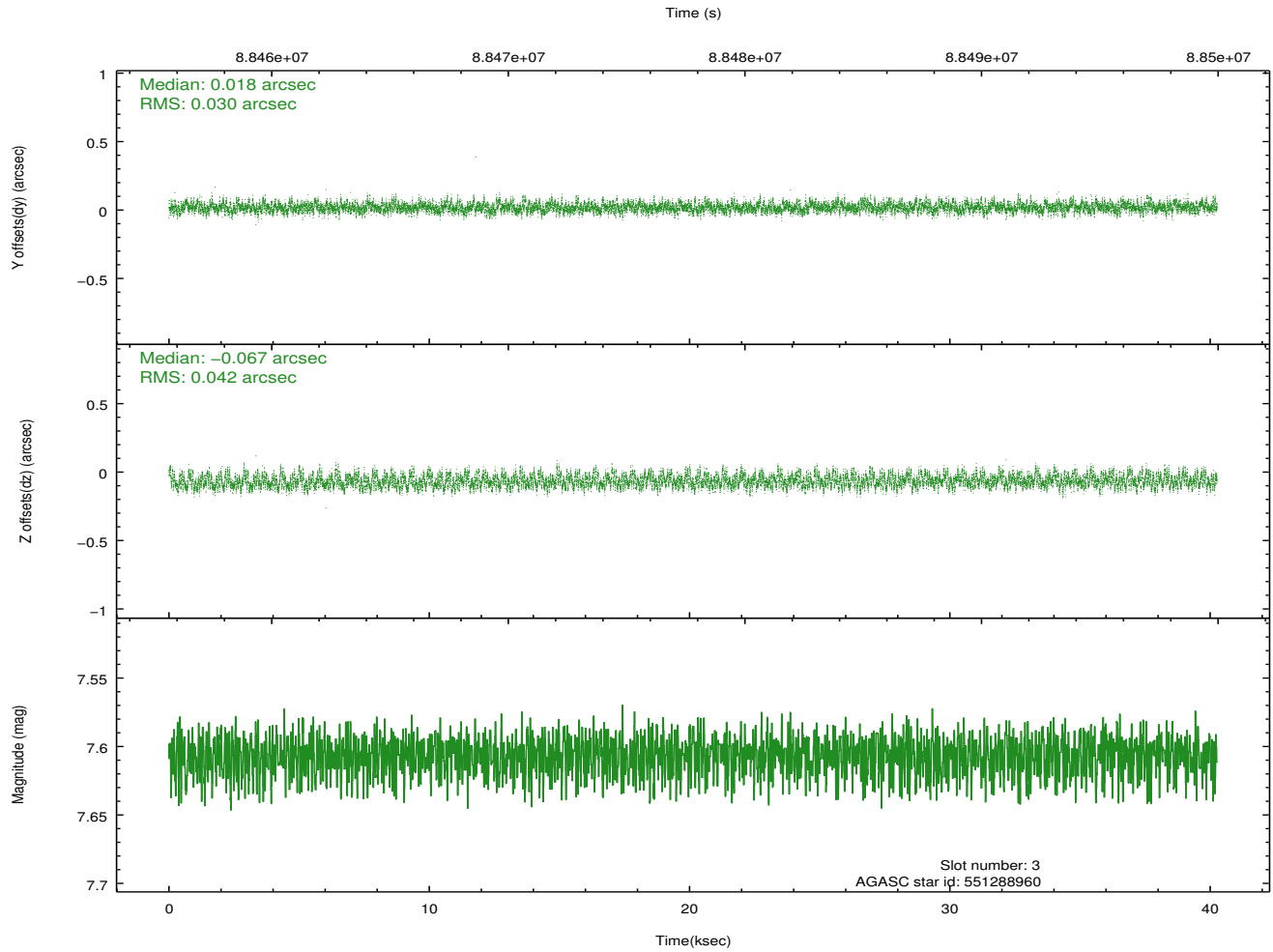
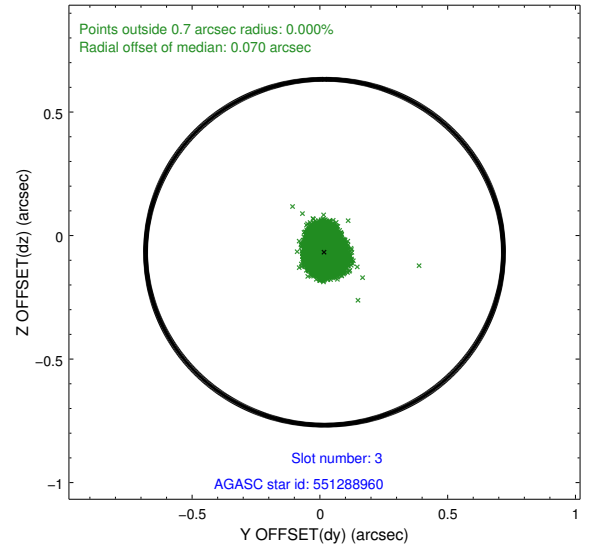
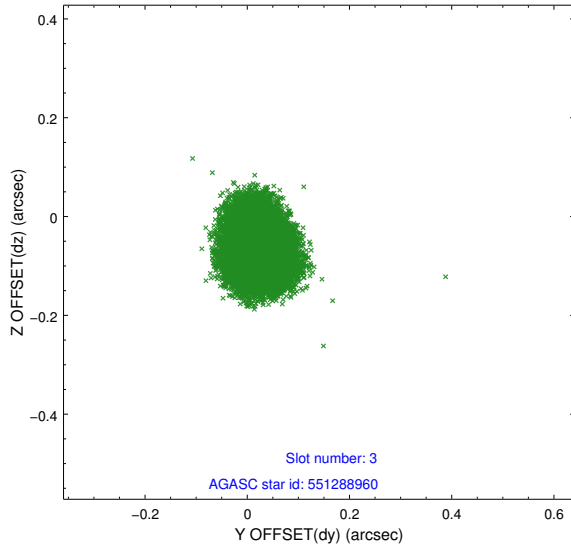


### Slot Statistics

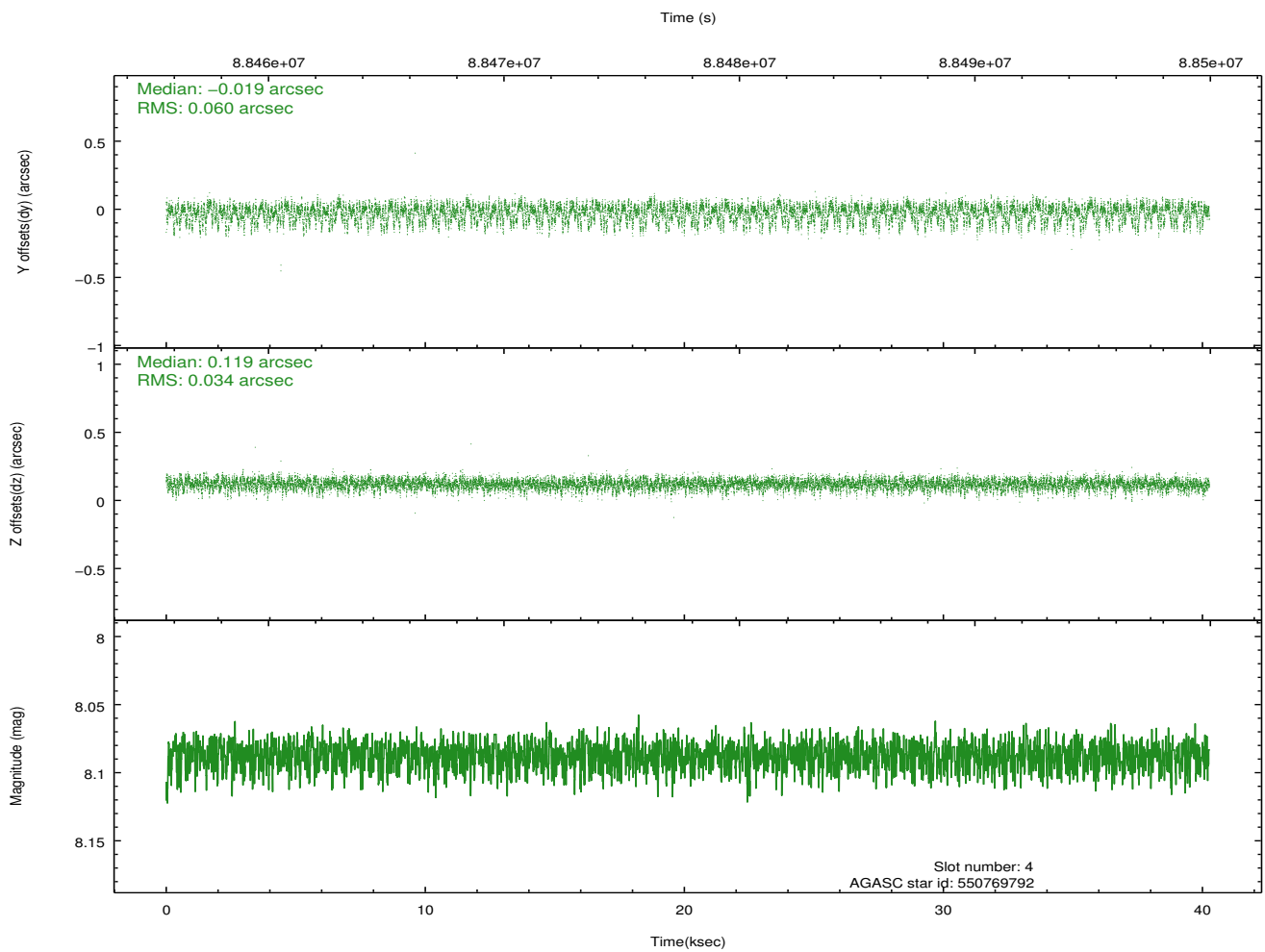
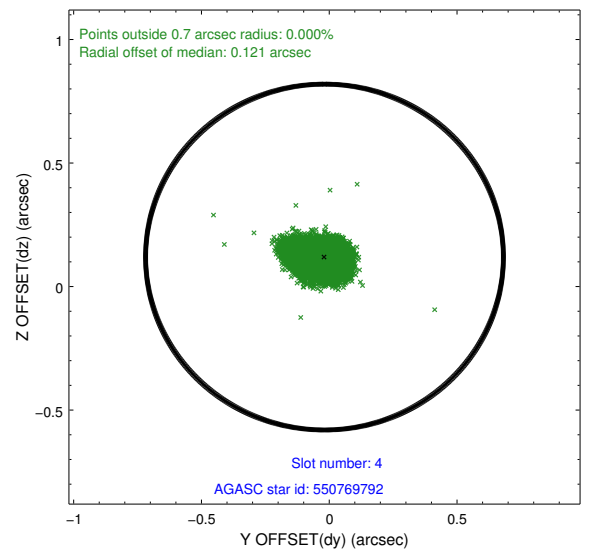
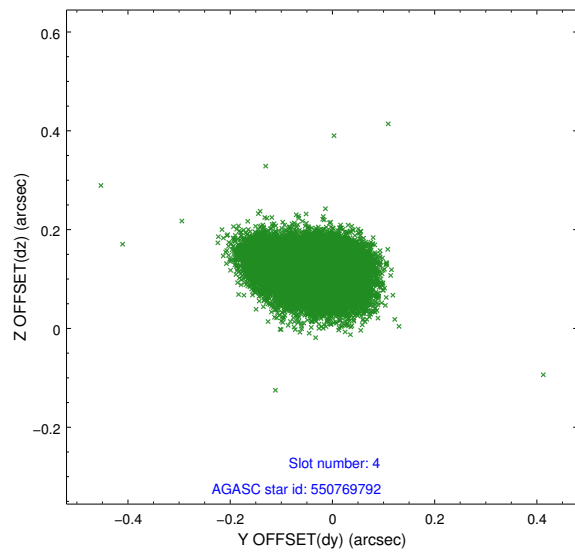
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.16	9821	-0.042	-0.067	0.009	0.015	0.000000	0.000000	-756.10	-836.00
1	FID	ACIS-I-4	7.18	9820	-0.034	0.049	0.007	0.013	0.000000	0.000000	2157.96	1070.29
2	FID	ACIS-I-5	7.23	9819	-0.025	0.086	0.009	0.016	0.000000	0.000000	-1809.89	1068.18
3	GUIDE	551288960	7.61	19640	0.018	-0.067	0.056	0.088	259.407558	64.033161	1367.37	1511.79
4	GUIDE	550769792	8.09	19641	-0.019	0.119	0.071	0.126	258.096675	63.352089	2014.78	-1644.97
5	GUIDE	551298432	8.47	19636	-0.015	-0.049	0.055	0.089	259.325450	64.084337	1142.58	1520.86
6	GUIDE	550769896	8.64	19636	-0.016	0.037	0.085	0.131	257.787710	63.467361	1379.68	-1774.41
7	GUIDE	551295424	8.95	19630	0.041	-0.041	0.083	0.135	258.816851	64.438065	-351.34	1669.36

## 2.4 Star Slots

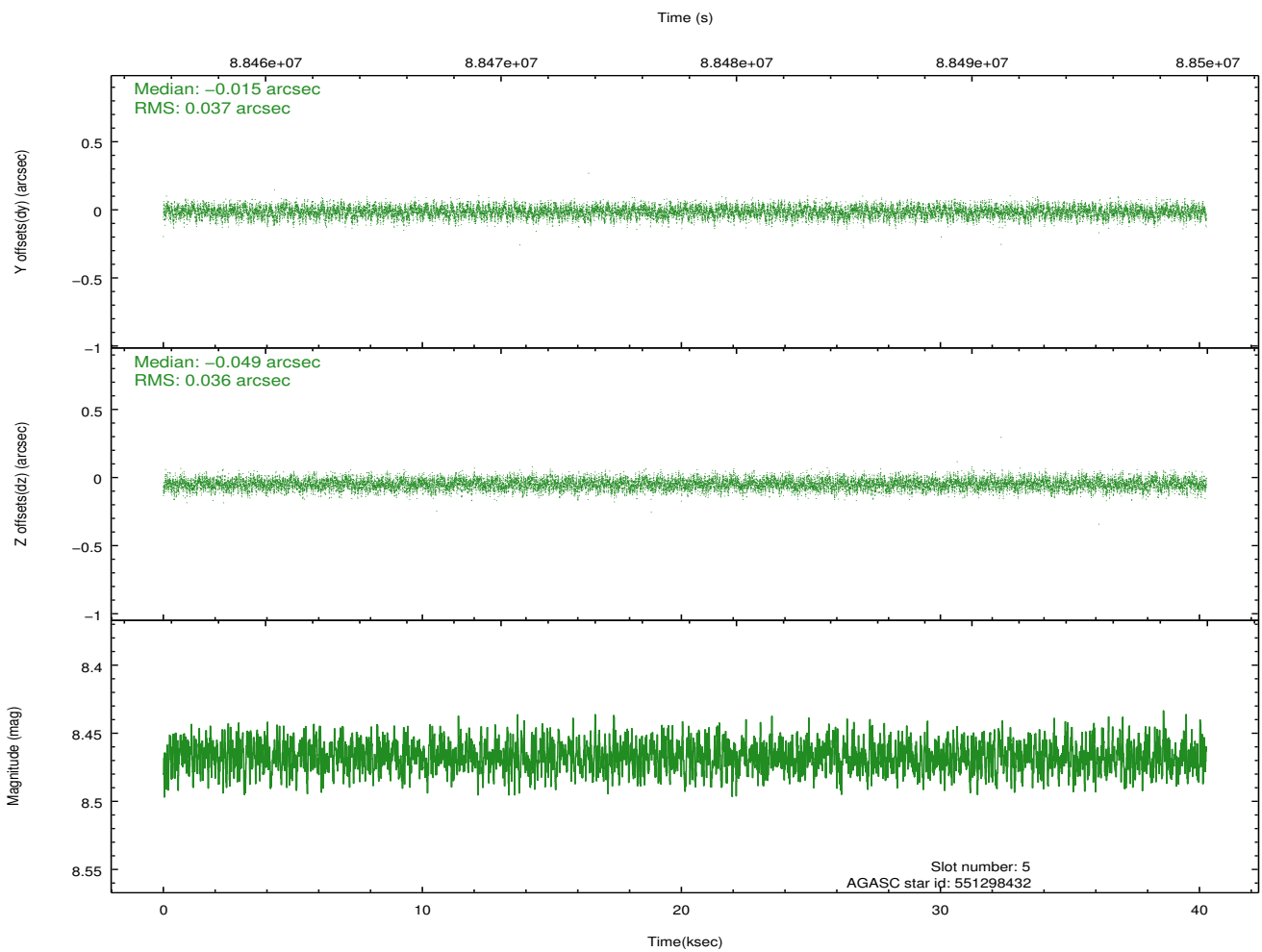
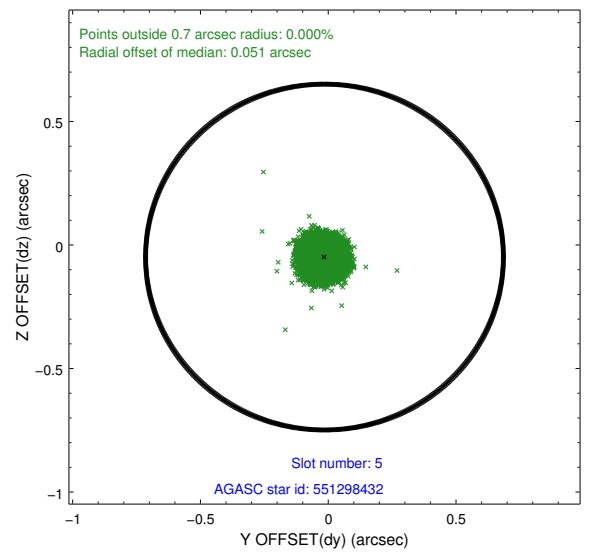
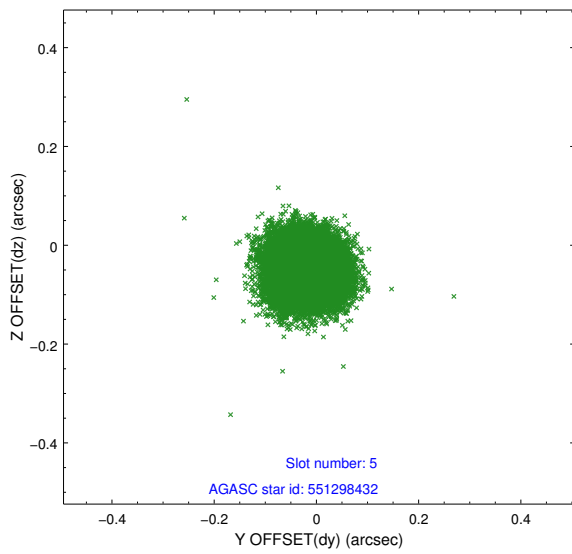
### 2.4.1 Slot 3



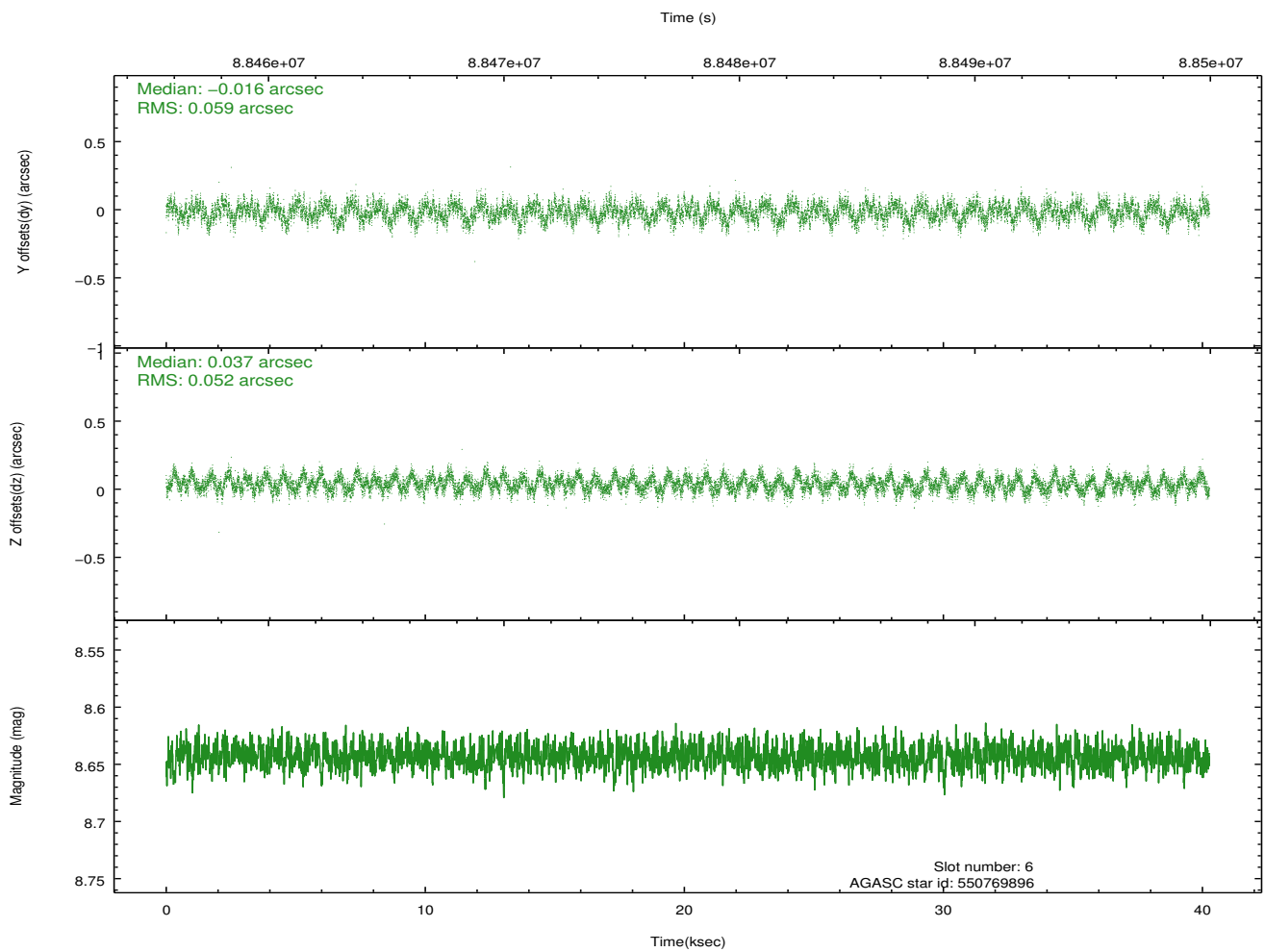
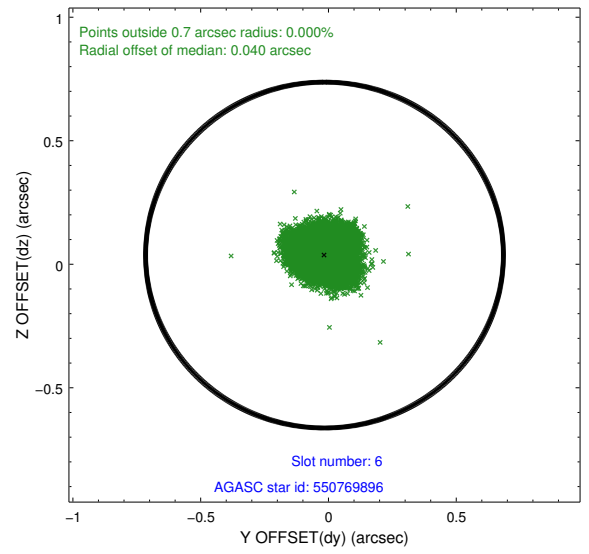
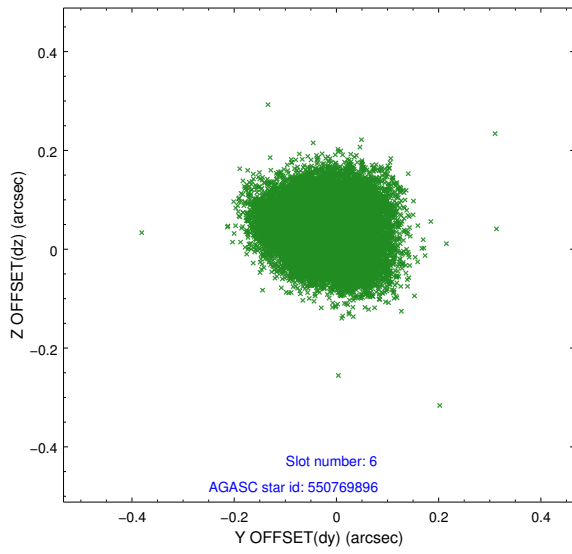
## 2.4.2 Slot 4



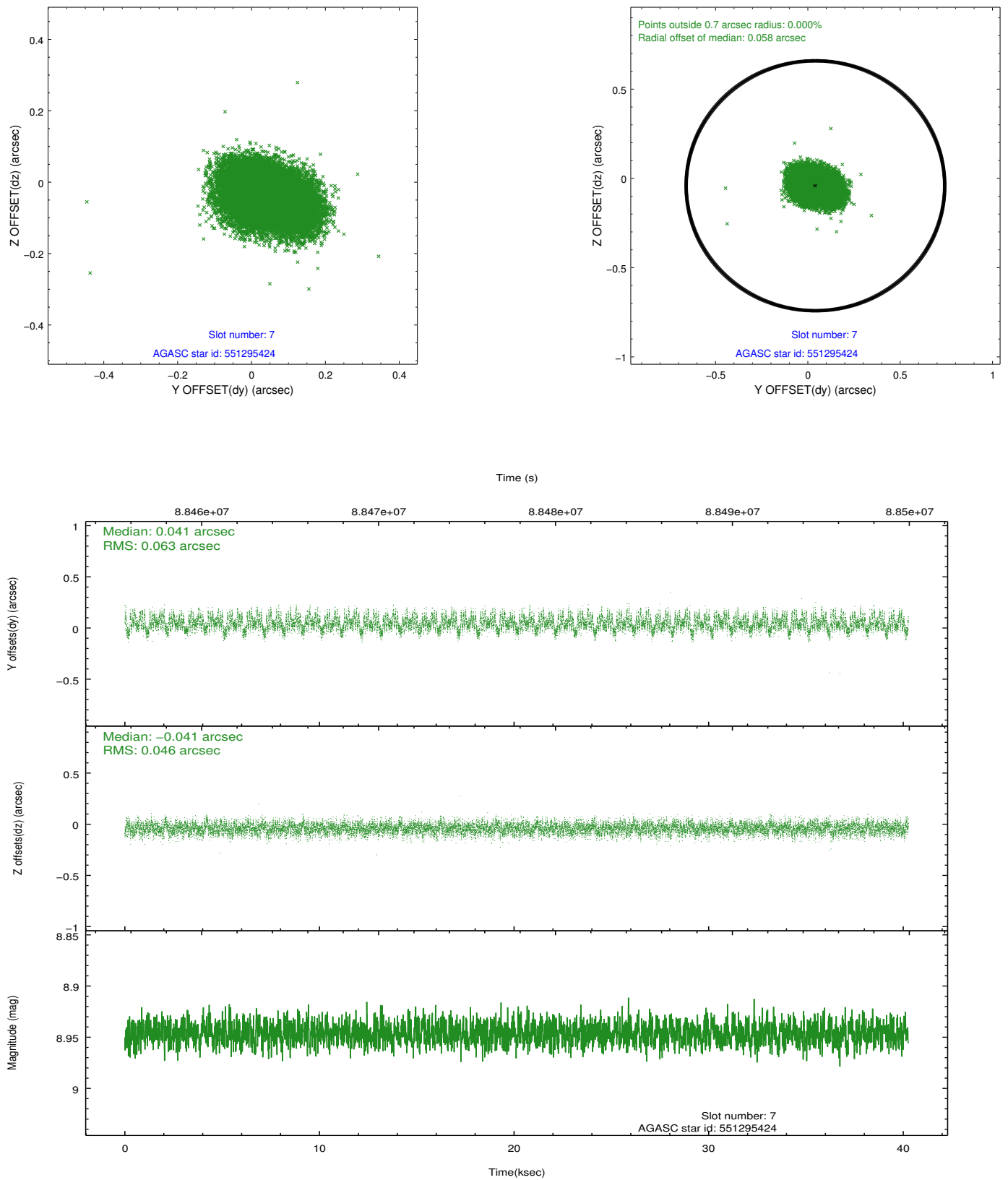
### 2.4.3 Slot 5



## 2.4.4 Slot 6

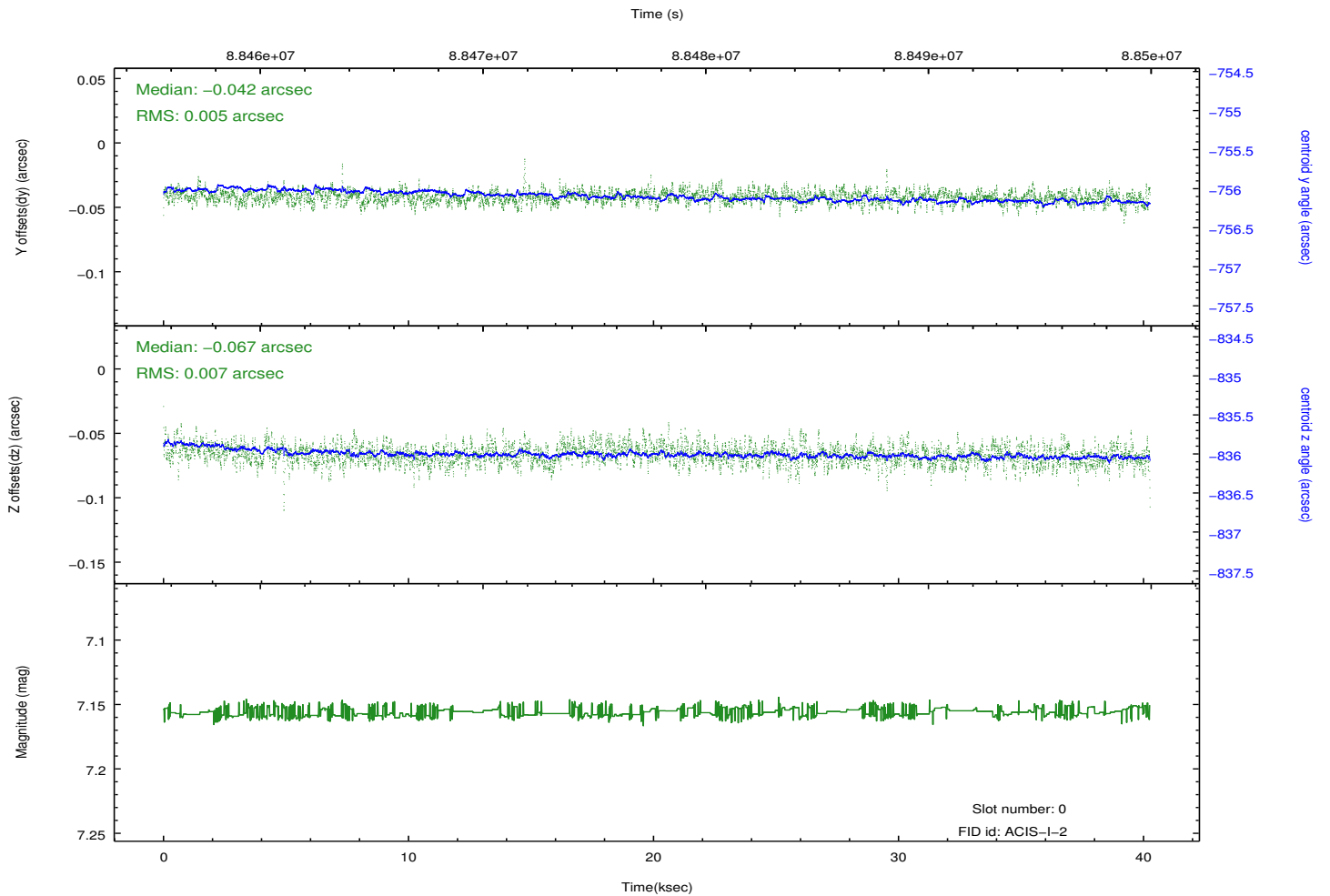
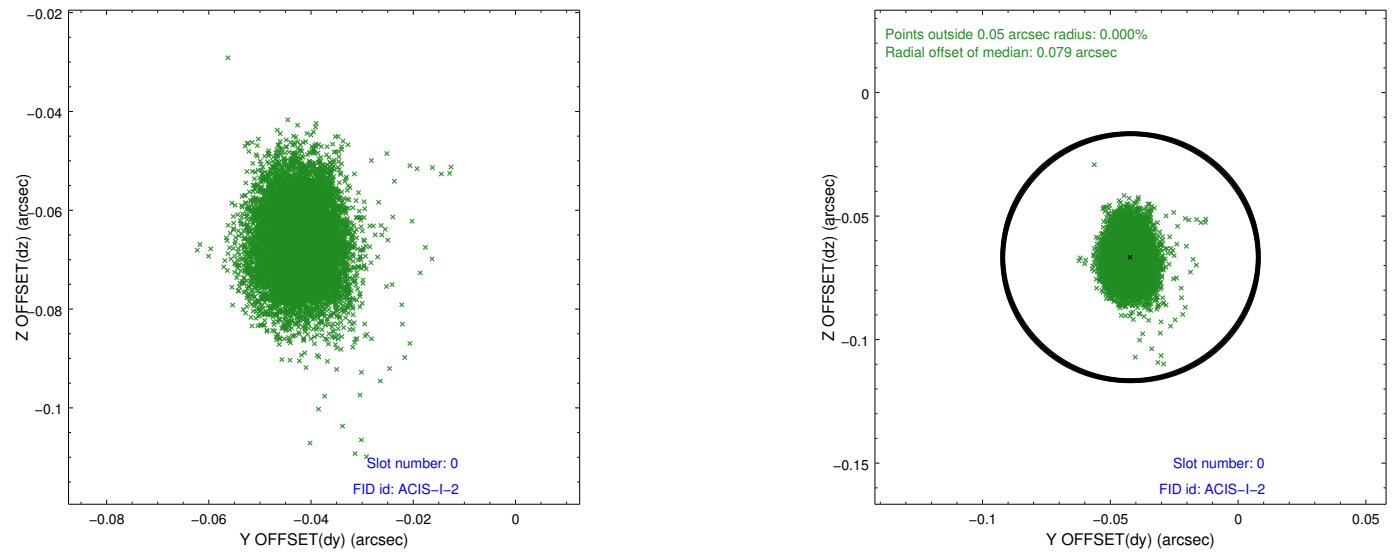


## 2.4.5 Slot 7

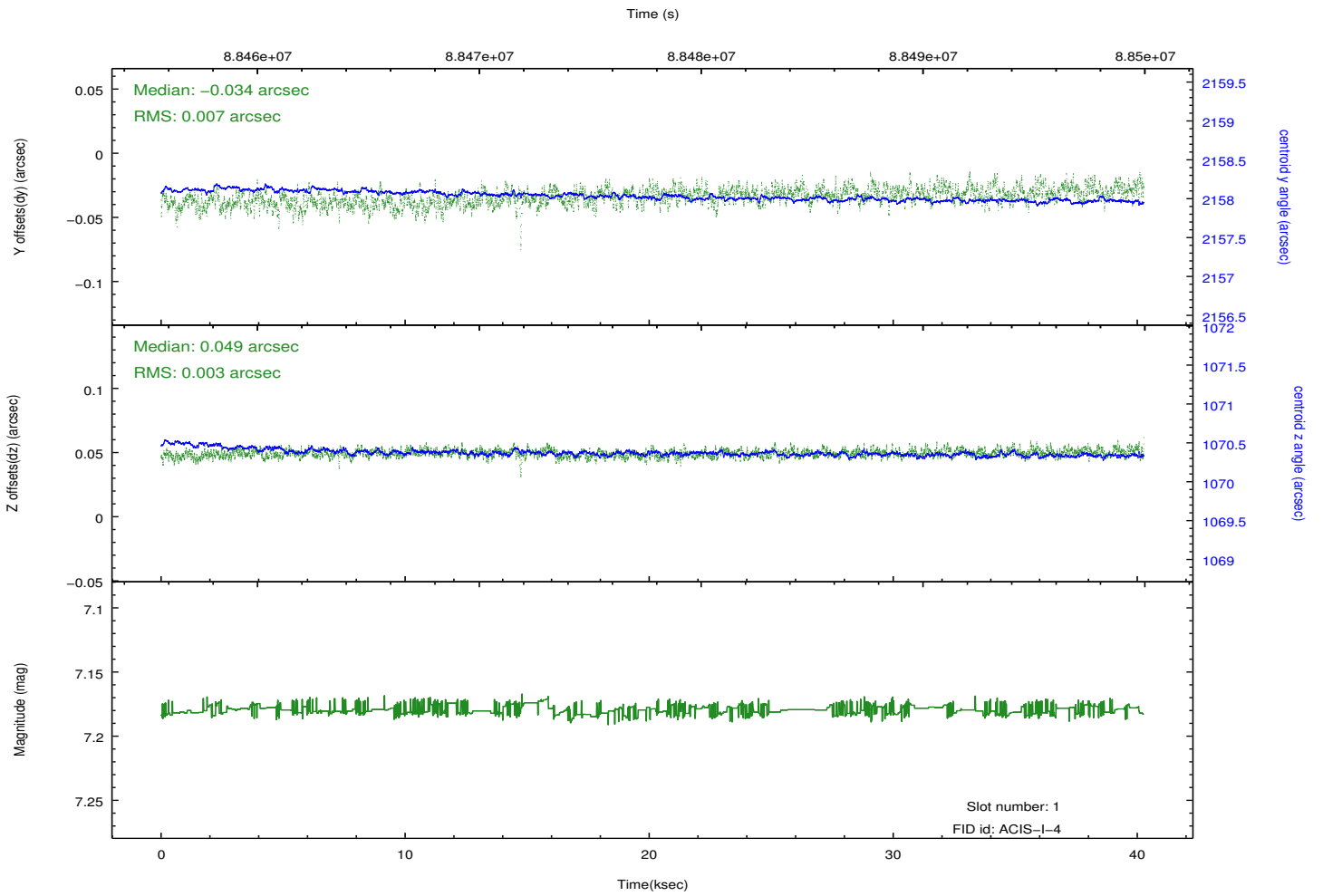
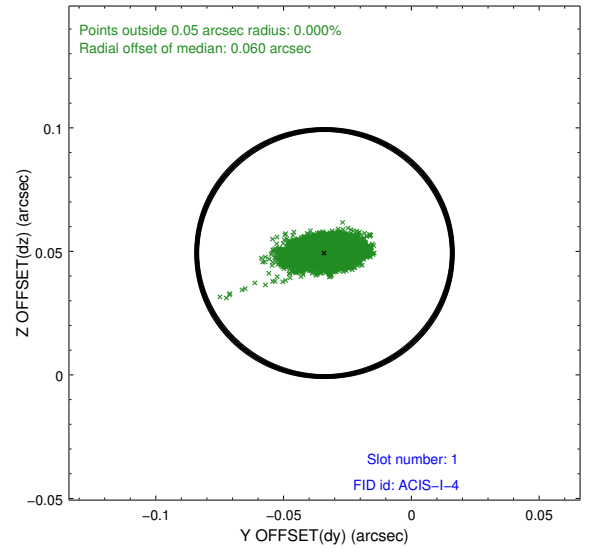
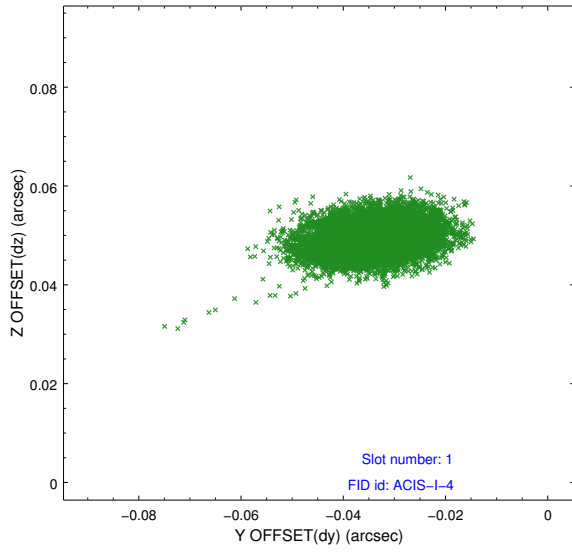


## 2.5 FID Slots

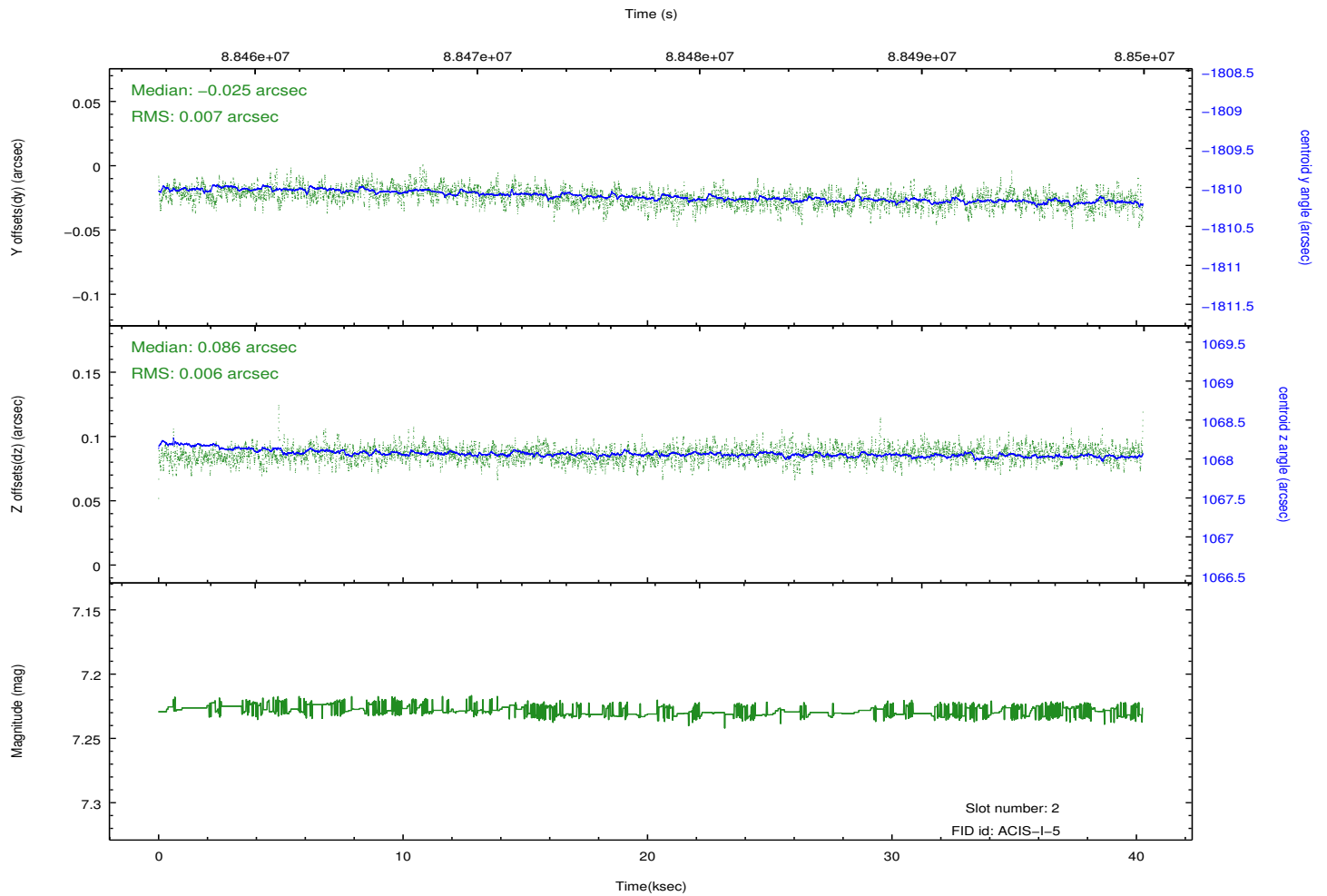
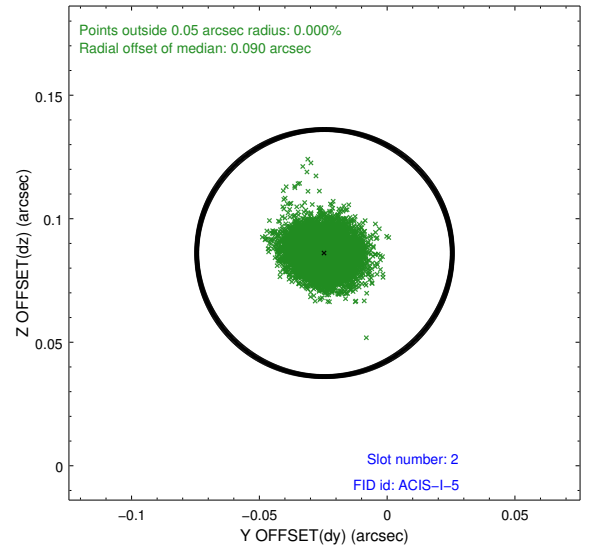
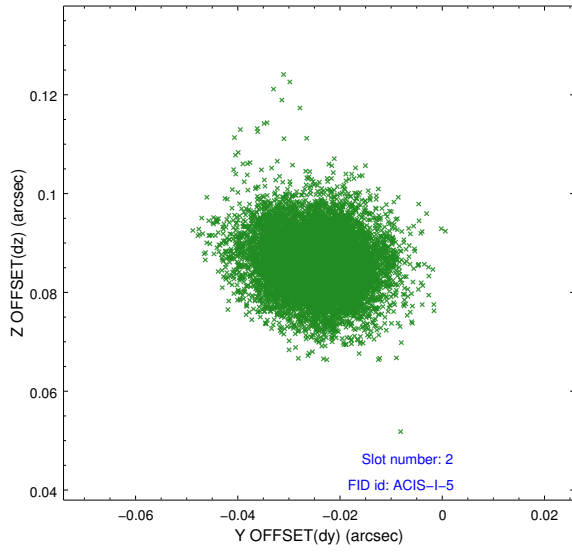
### 2.5.1 Slot 0



## 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)	2012.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.939

## A.2 Comments

Roll constraint met.