

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 14039 - L2 Version 1  
Chandra X-Ray Center

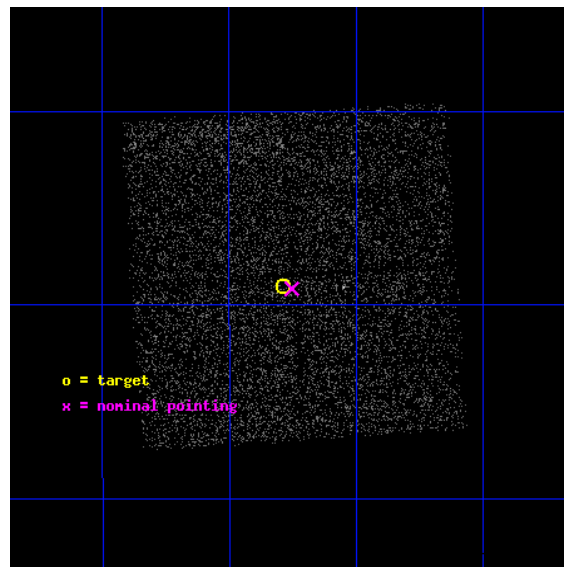
L2 Processing Date : Jun 20 2012

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# 1 Front

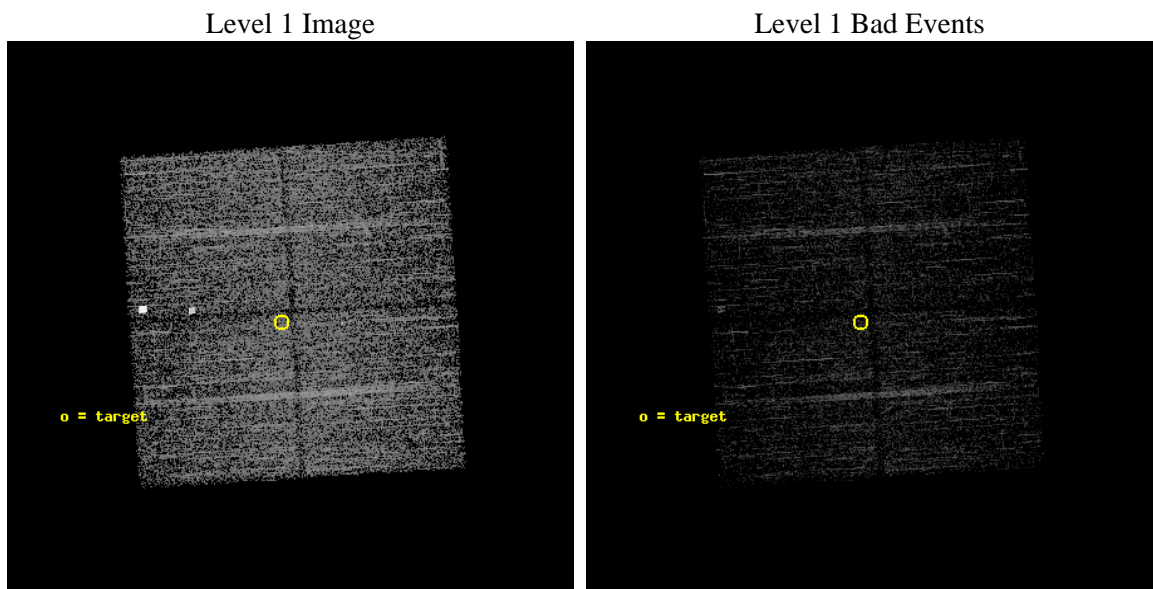
seq_num	901005	Sequence number
obs_id	14039	Observation id
title	BAT, Chandra, NuSTAR and The origin of the Cosmic X-ray Background	&#160
observer	Dr. Marco Ajello	Principal investigator
object	J0543.7-2739	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	85.947083	Observer's specified target RA [deg]
dec_targ	-27.651	Observer's specified target Dec [deg]
ra_nom	85.93831082765	Nominal RA [deg]
dec_nom	-27.652877548252	Nominal Dec [deg]
roll_nom	176.48065657453	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5089.6380290985	Sum of GTIs [s]
livetime	5023.1381613113	Livetime [s]
ontime0	5089.5149090886	Sum of GTIs [s]
ontime1	5089.5559490919	Sum of GTIs [s]
ontime2	5089.5969890952	Sum of GTIs [s]
ontime3	5089.6380290985	Sum of GTIs [s]
l2events	11535	Number of level 2 events



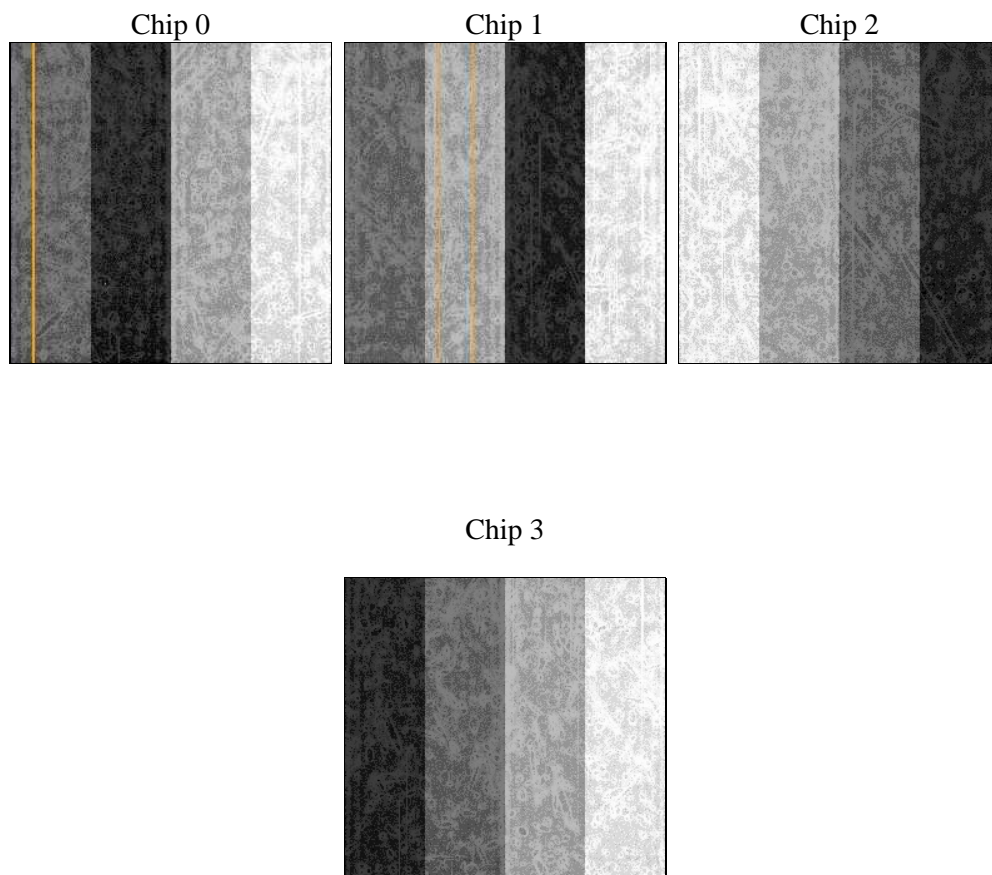
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	5089.6380290985	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	5089.5149090886	Sum of GTIs [s]
date	2012-06-21T01:06:32	Date and time of file creation	ontime1	5089.5559490919	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5089.5969890952	Sum of GTIs [s]
			ontime3	5089.6380290985	Sum of GTIs [s]
			l1events	120708	Number of level 1 events

### 2.1.4 Events

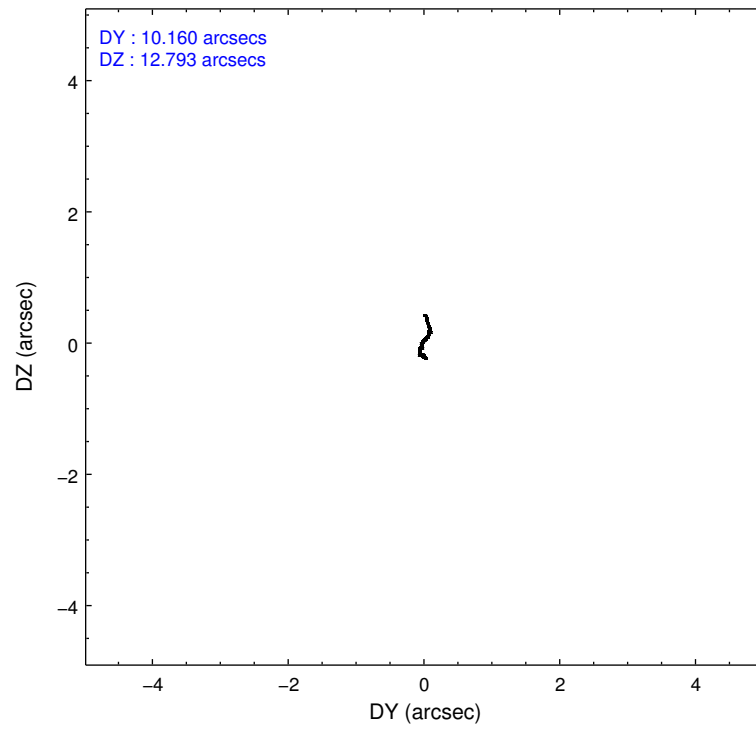
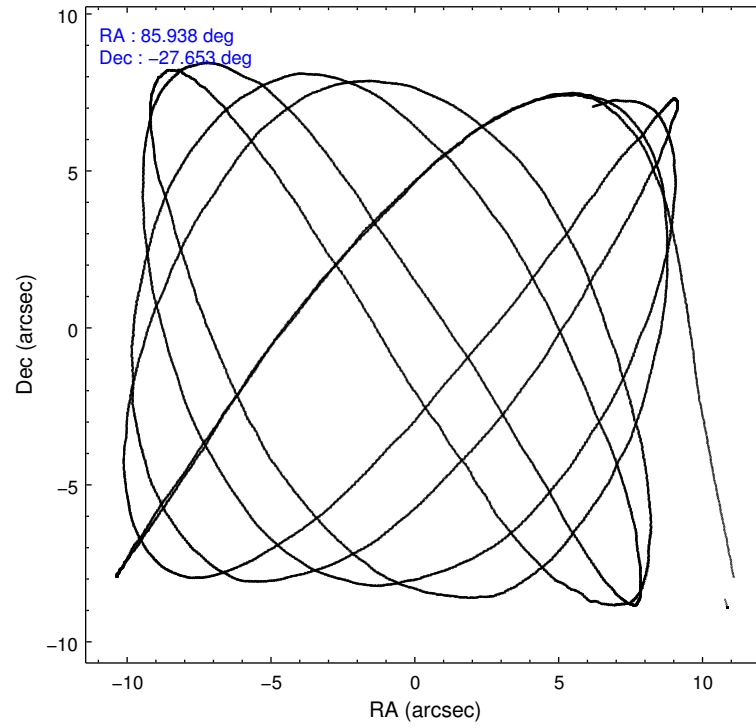
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	27070	36705	29733	27200
rejected events	23736	24646	26237	24086
rejected %	87%	67%	88%	88%

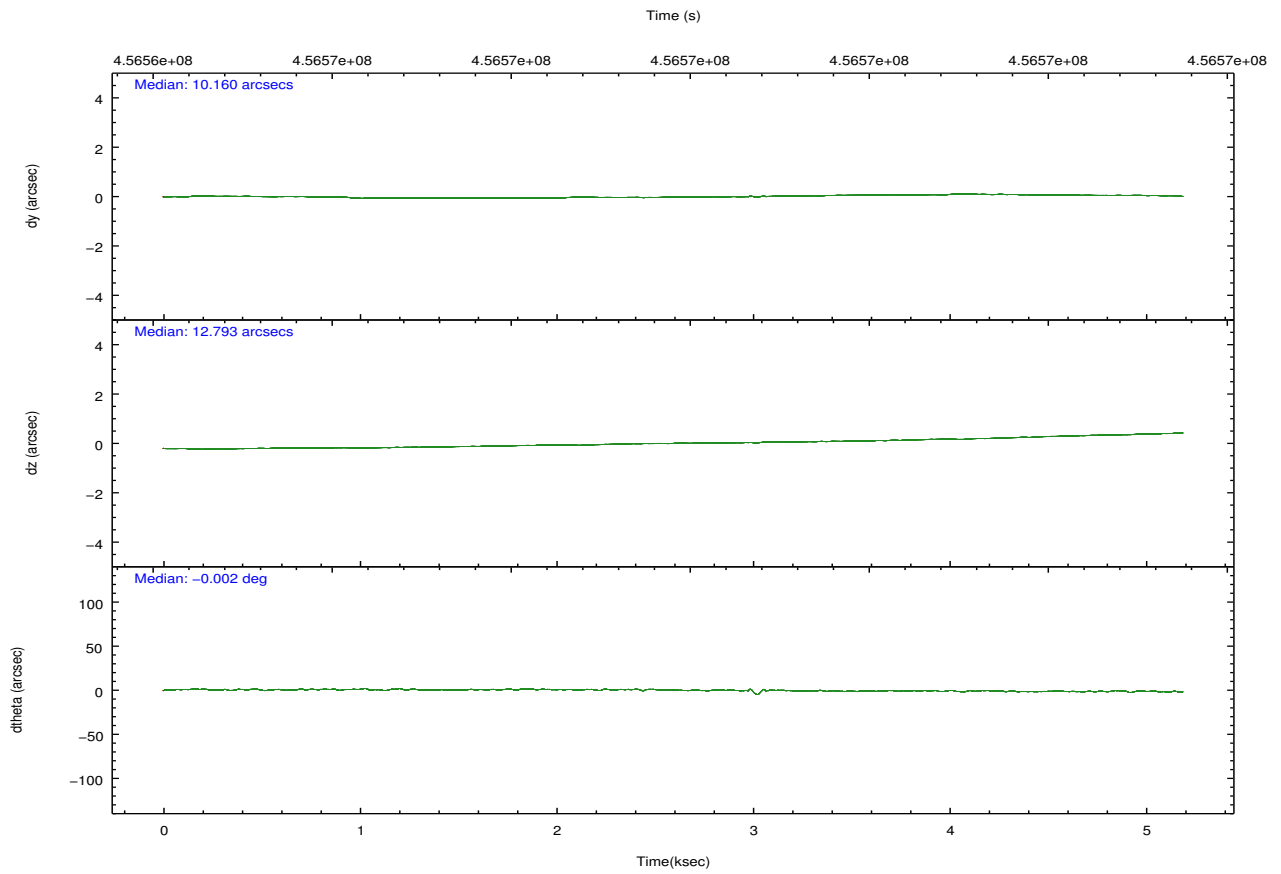
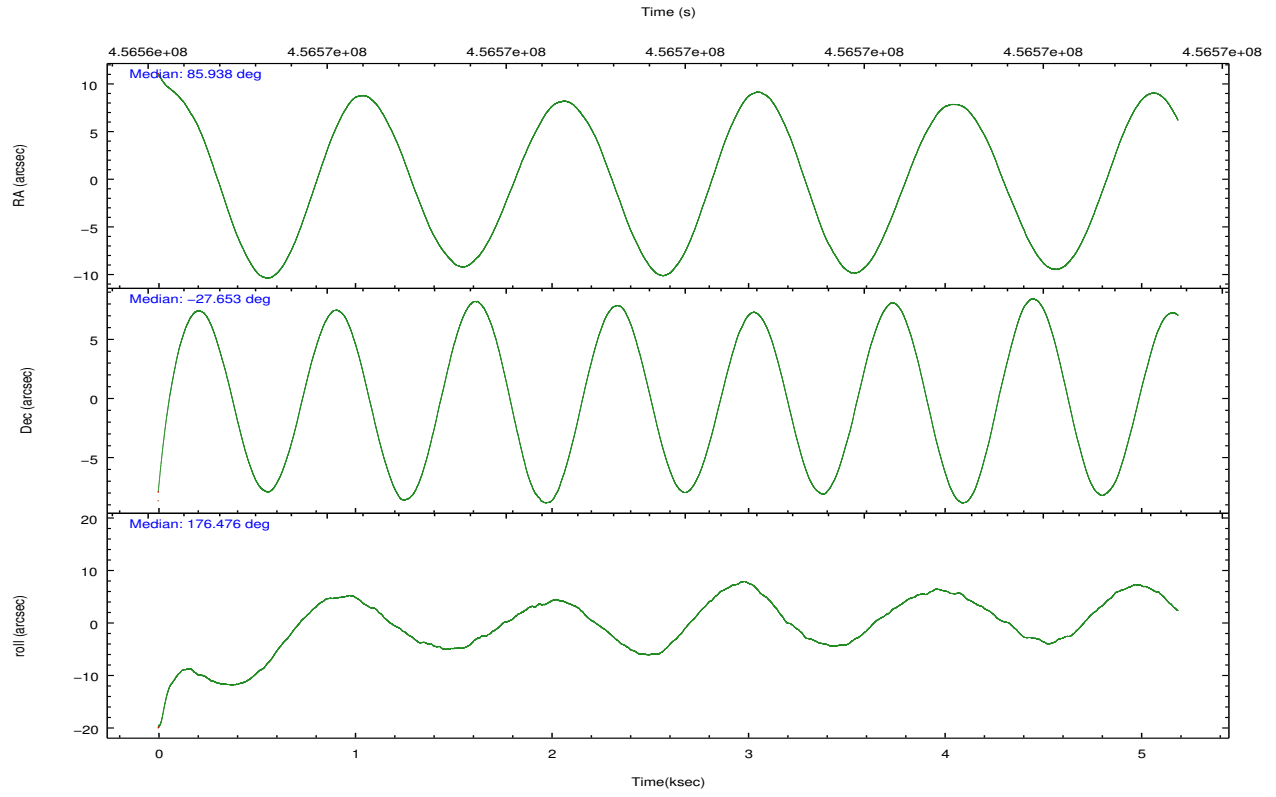
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1189	8099	1317	1040
	4%	22%	4%	3%
grade 1 events	12	38	23	26
	0%	0%	0%	0%
grade 2 events	852	2438	823	729
	3%	6%	2%	2%
grade 3 events	324	327	366	356
	1%	0%	1%	1%
grade 4 events	324	380	372	358
	1%	1%	1%	1%
grade 5 events	1274	1378	1179	1395
	4%	3%	3%	5%
grade 6 events	647	827	621	636
	2%	2%	2%	2%
grade 7 events	22448	23218	25032	22660
	82%	63%	84%	83%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	85.965942	85.9383108276499	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.640561	-27.65287754825166	Alternating exposures requested	N	N
[deg] Pointing Roll	176.284819	176.4806565745322	[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)	456565497.184000	456564181.60204			
Observation start date	2012-06-20T07:43:51	2012-06-20T07:23:01			
[s] Observation end time (MET)	456570497.184000	456571534.43994			
Observation end date	2012-06-20T09:07:11	2012-06-20T09:25:34			
Read mode	TIMED	TIMED			

## 2.3 Aspect



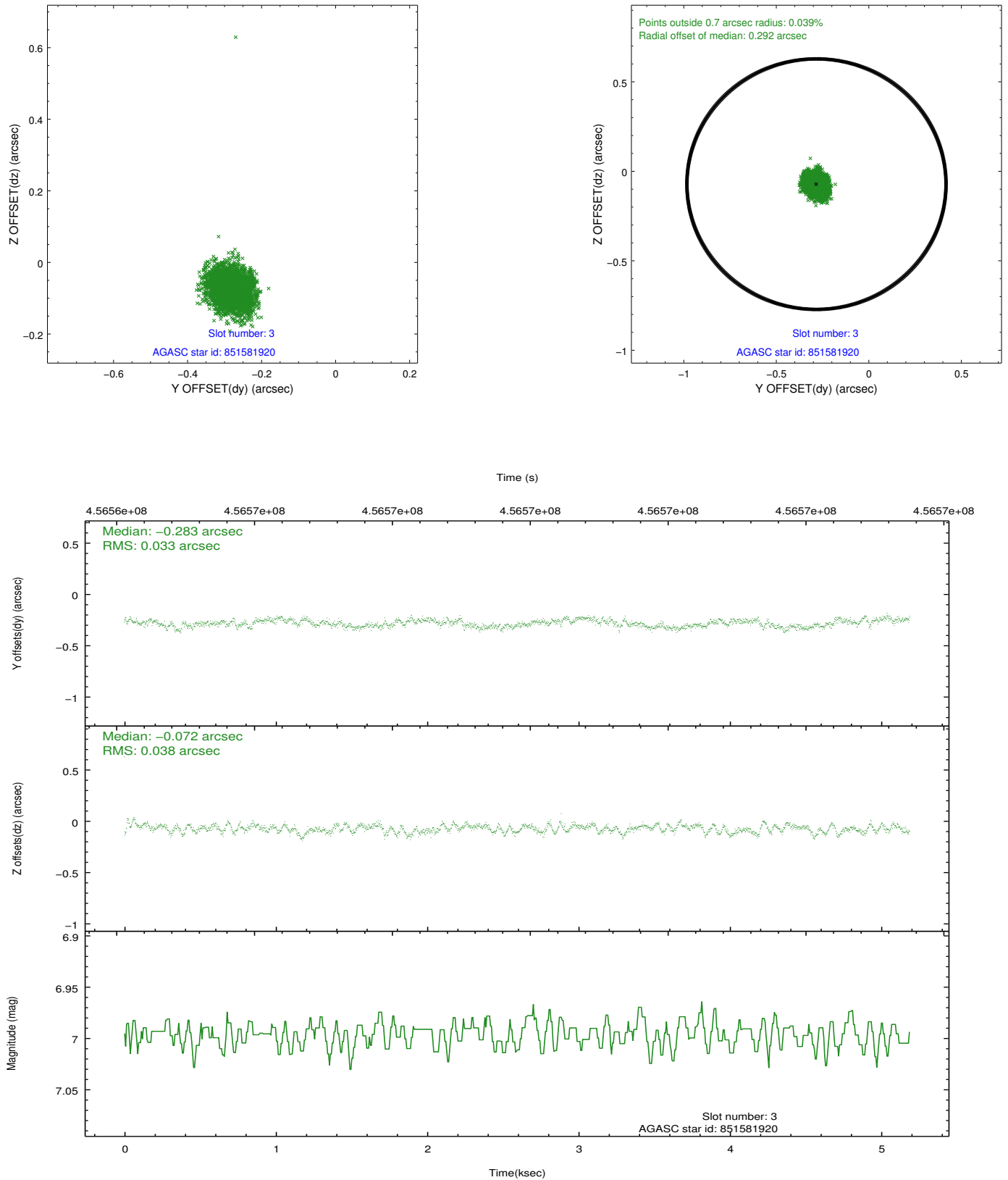


### Slot Statistics

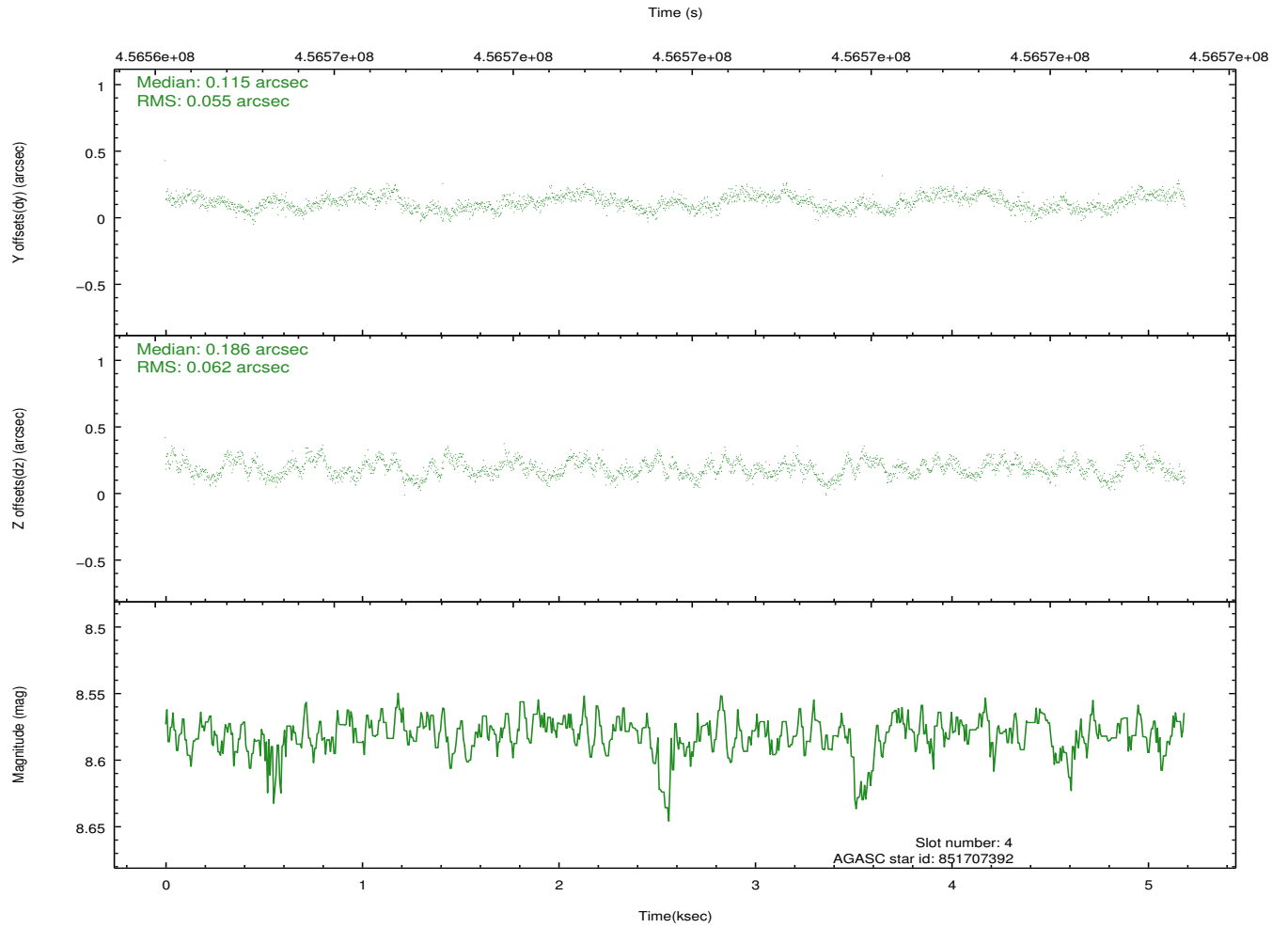
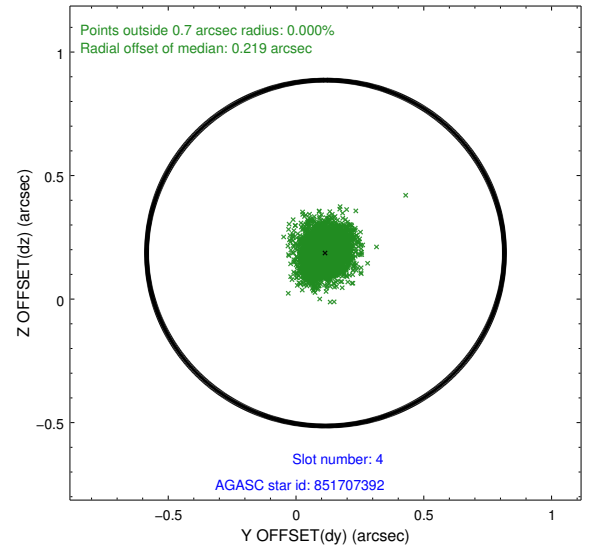
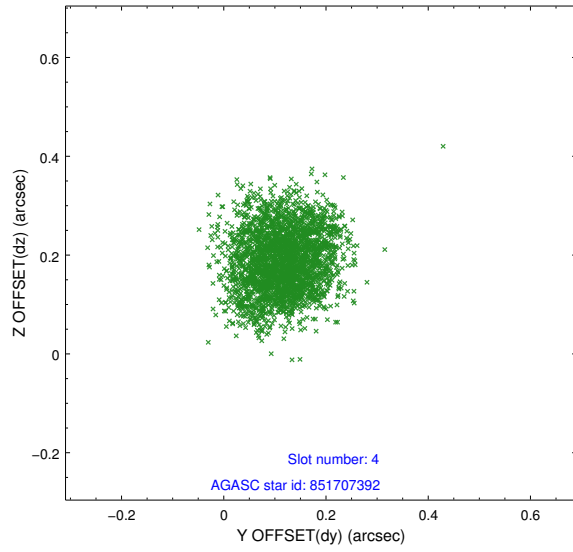
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	1266	0.100	-0.046	0.012	0.021	0.000000	0.000000	929.52	-836.40
1	FID	ACIS-I-5	7.08	1266	-0.235	0.097	0.006	0.012	0.000000	0.000000	-1818.27	1060.65
2	FID	ACIS-I-6	7.09	1266	0.045	0.019	0.010	0.016	0.000000	0.000000	393.75	1706.39
3	GUIDE	851581920	7.00	2532	-0.283	-0.072	0.052	0.081	85.244897	-27.952156	2215.01	1275.19
4	GUIDE	851707392	8.58	2530	0.115	0.186	0.090	0.140	86.461475	-27.397981	-1522.83	-969.88
5	GUIDE	851709296	8.92	2531	0.099	0.212	0.108	0.166	86.240344	-27.416008	-822.81	-862.40
6	GUIDE	852231416	7.68	2531	-0.045	-0.169	0.094	0.153	86.032638	-28.227026	-348.09	2093.03
7	GUIDE	851583008	9.13	2527	0.109	-0.148	0.129	0.231	85.274865	-26.921332	2381.66	-2432.77

## 2.4 Star Slots

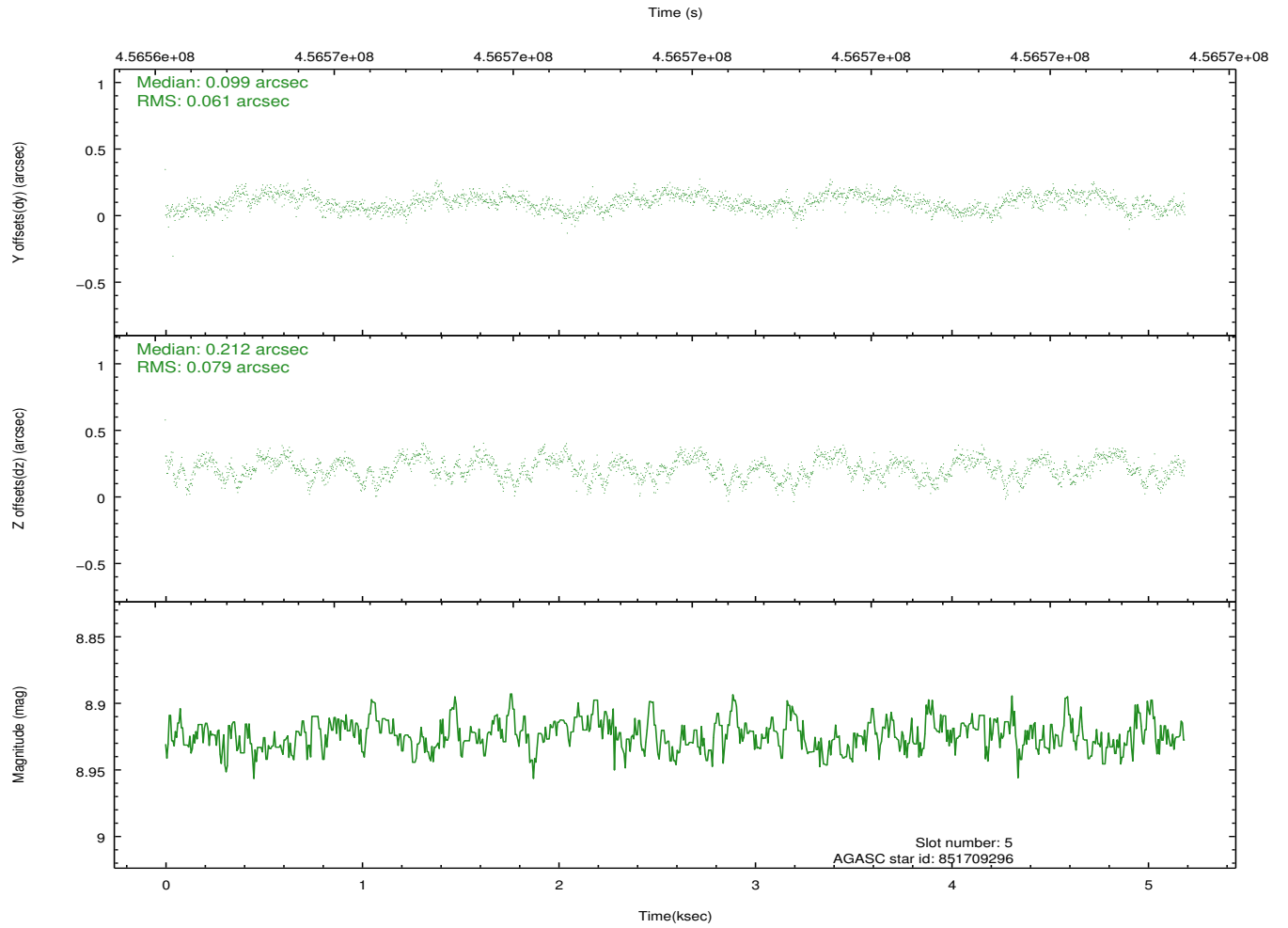
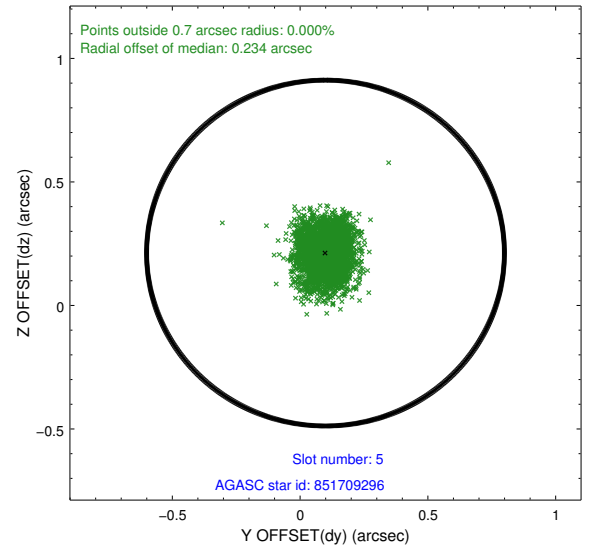
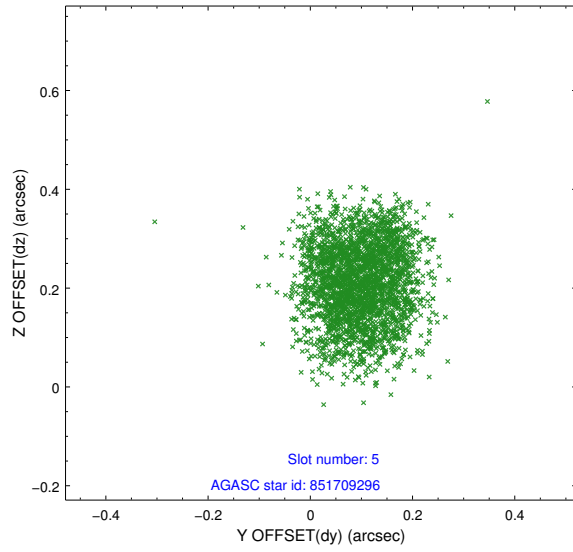
### 2.4.1 Slot 3



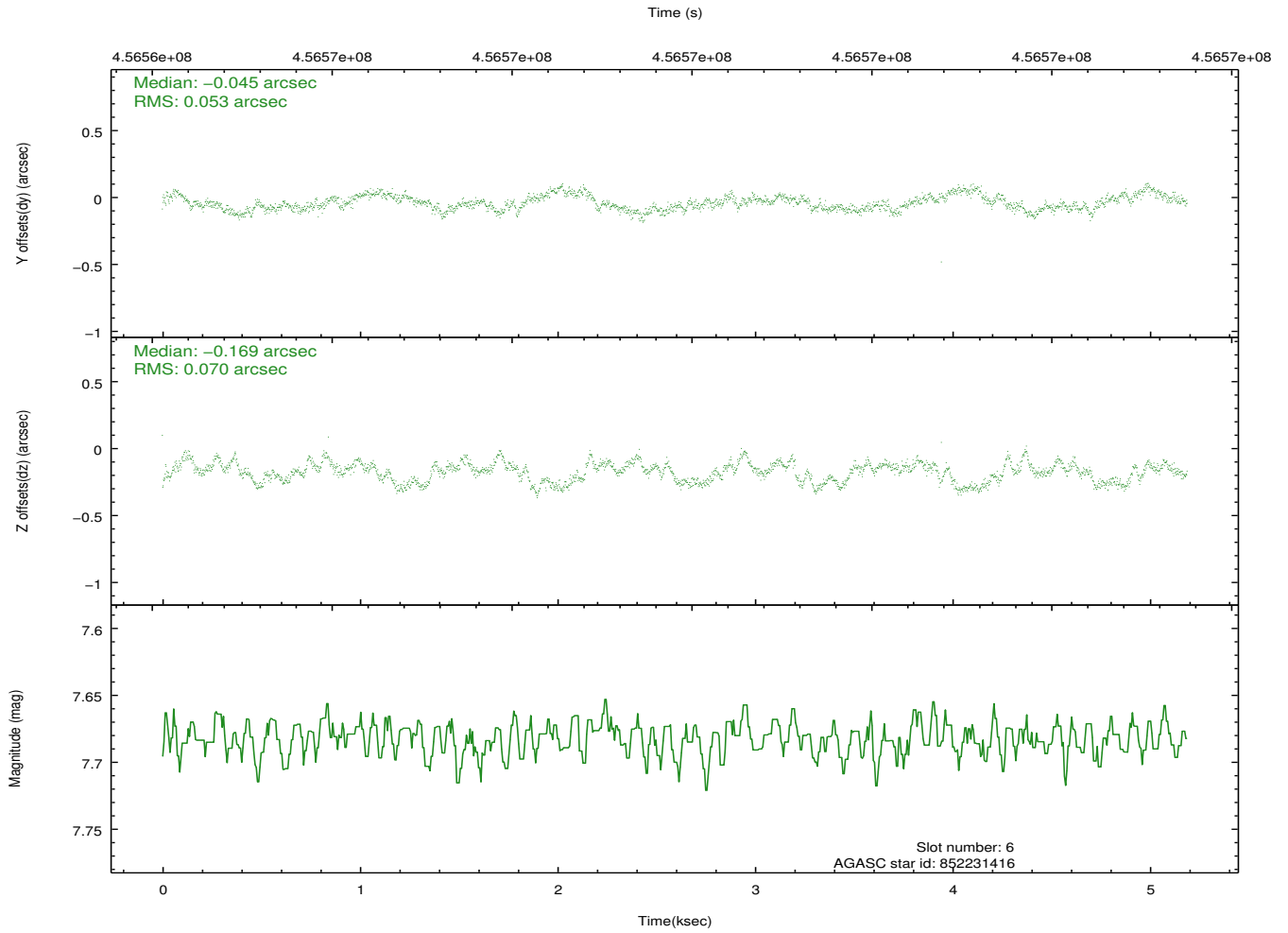
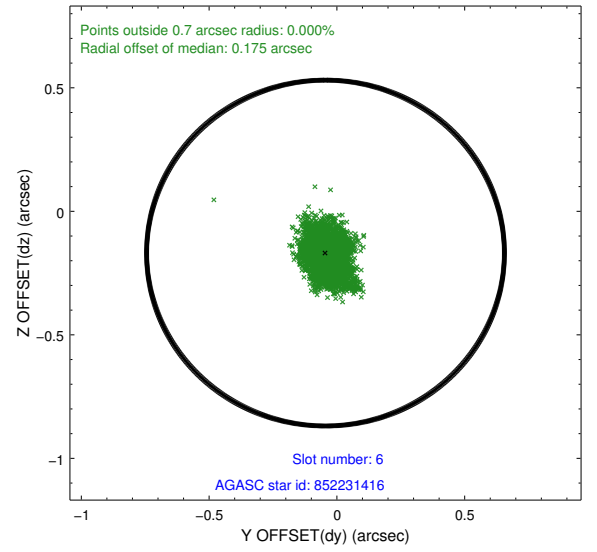
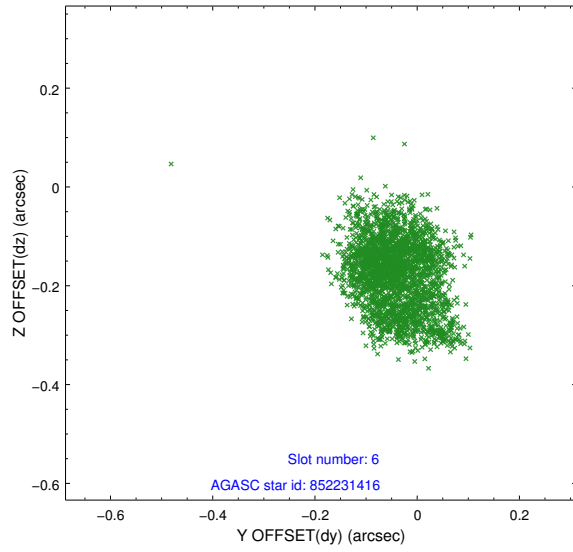
## 2.4.2 Slot 4



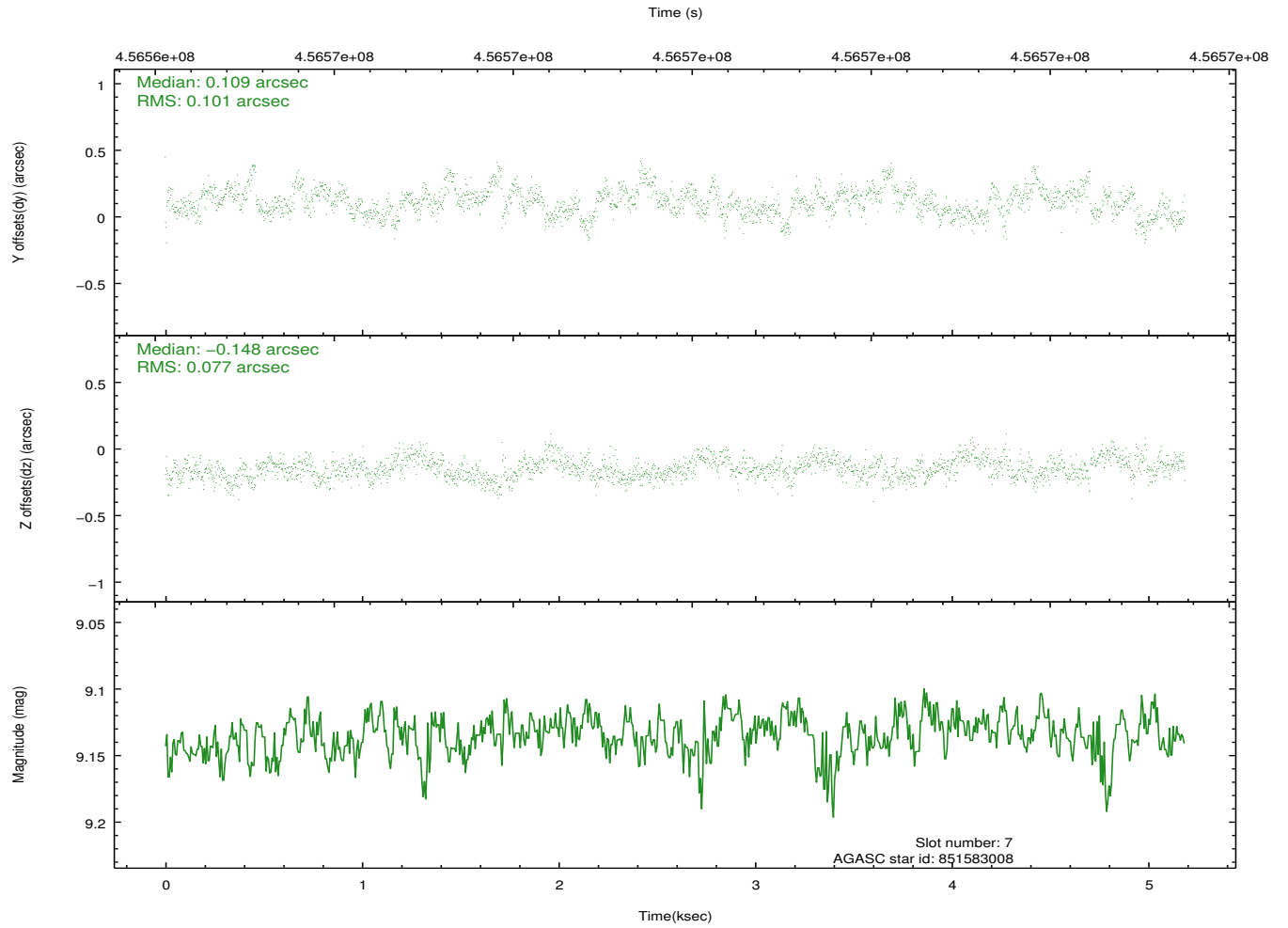
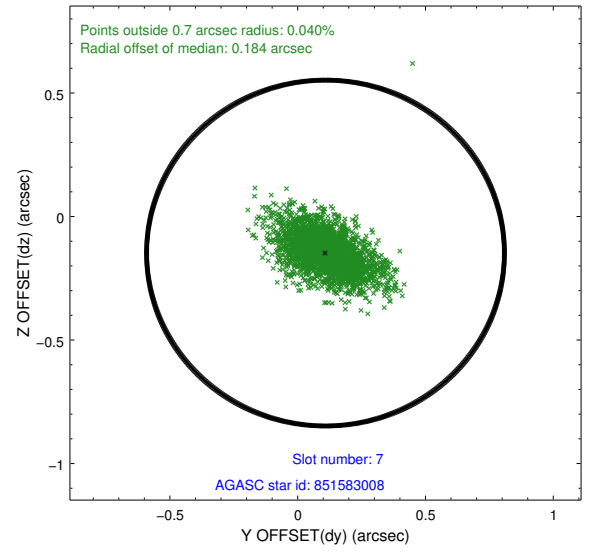
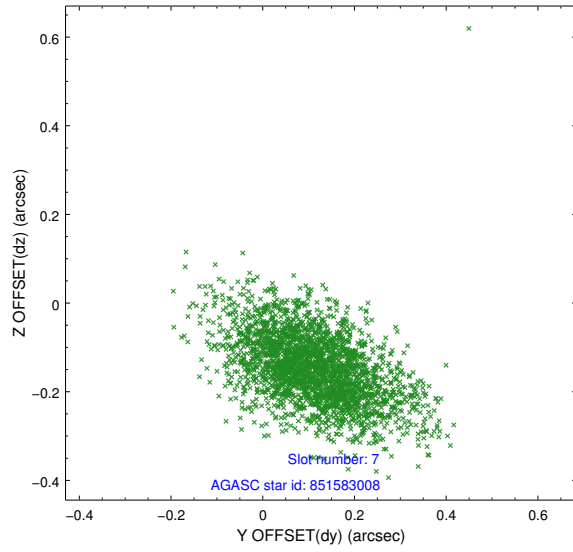
### 2.4.3 Slot 5



## 2.4.4 Slot 6

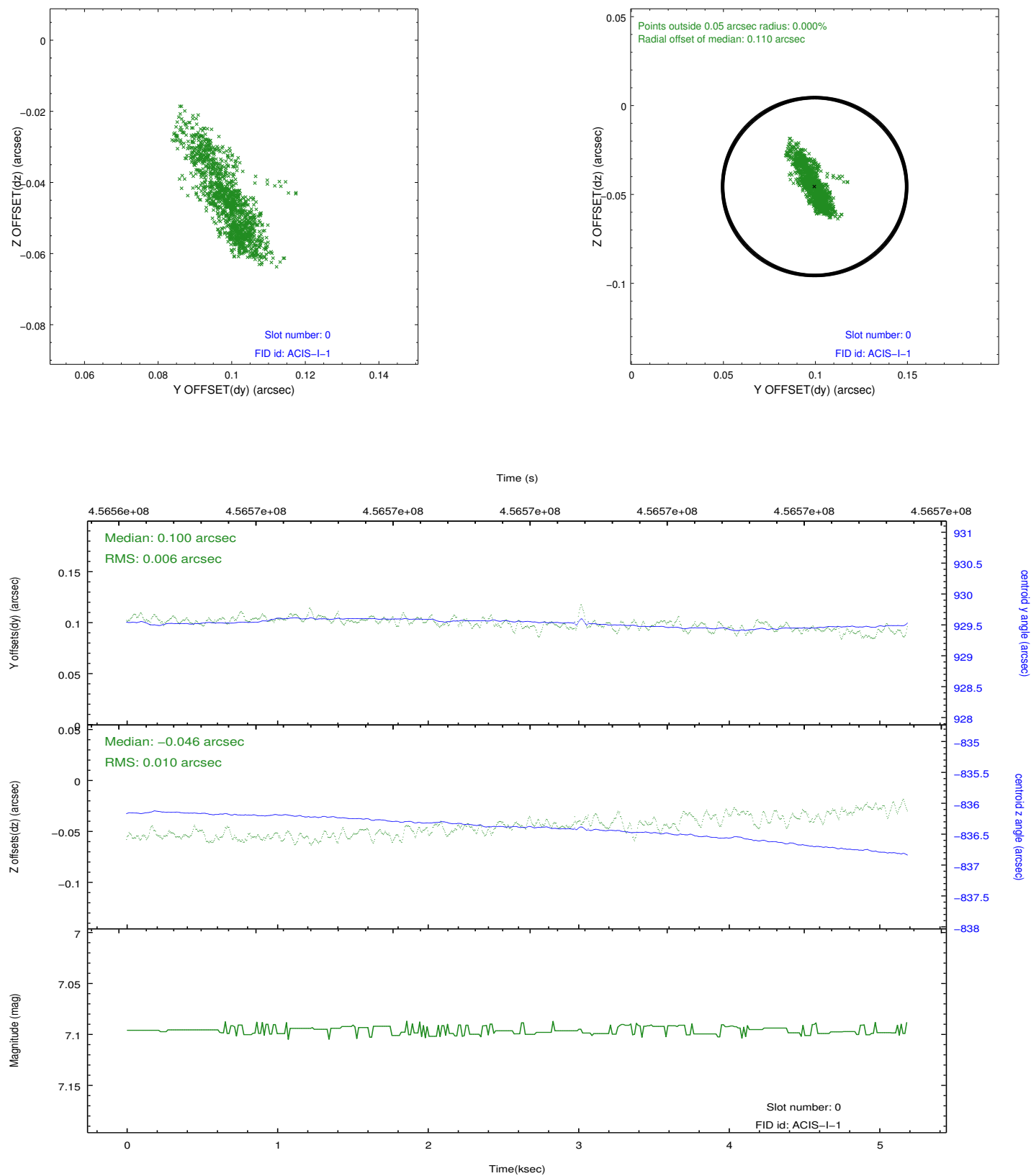


## 2.4.5 Slot 7

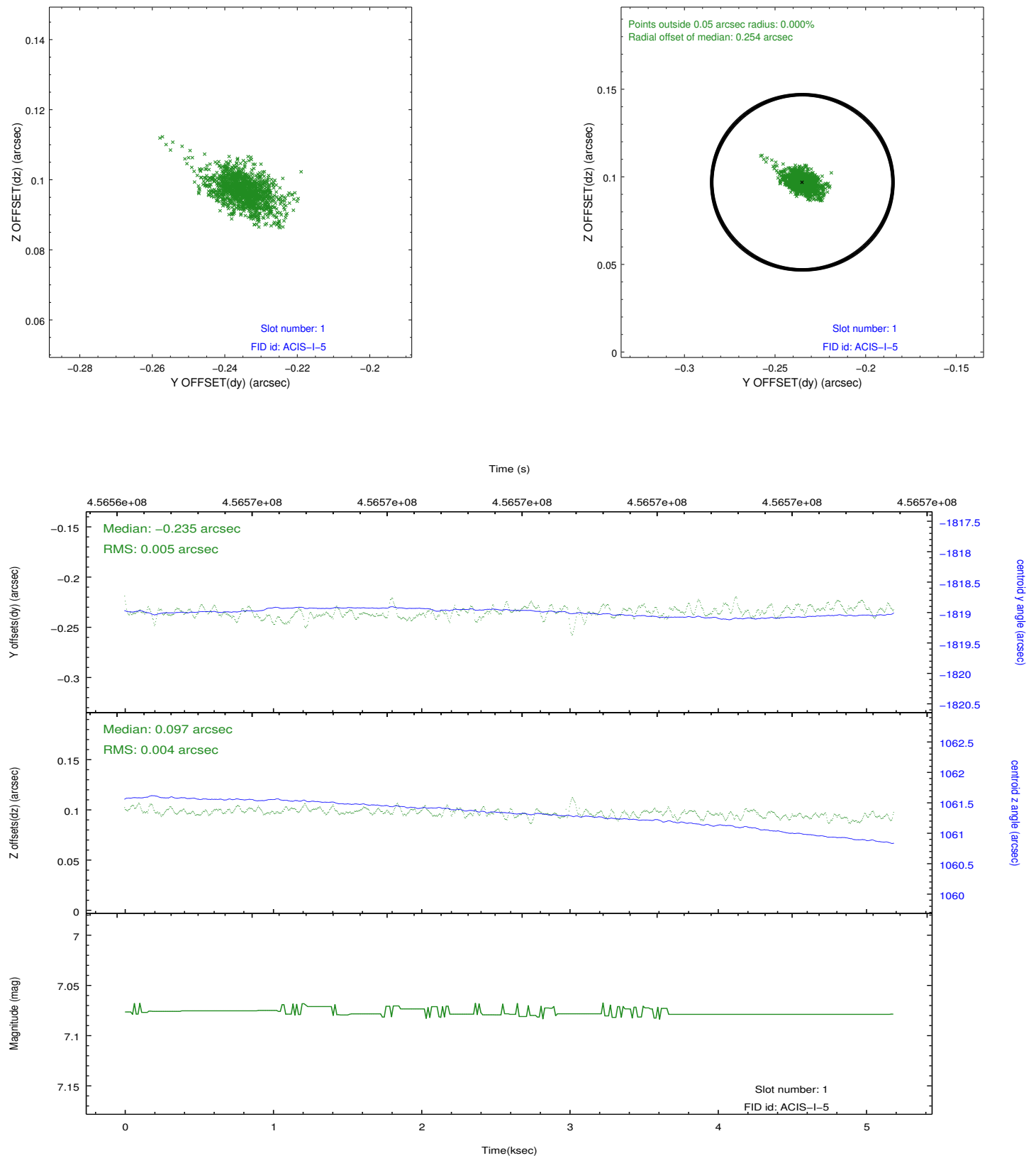


## 2.5 FID Slots

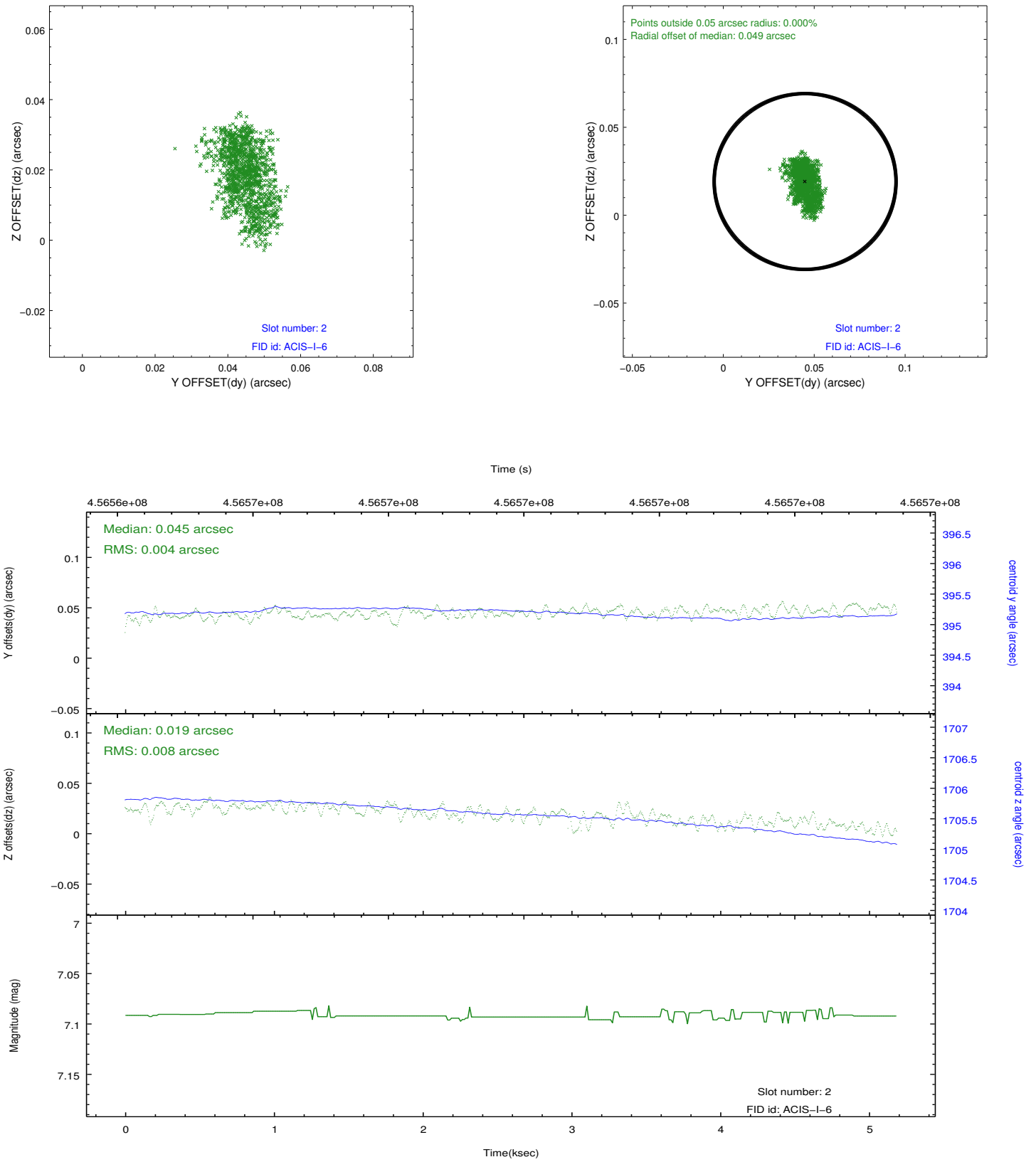
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0896380290985

### A.2 Comments