

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9233 - L2 Version 2  
Chandra X-Ray Center

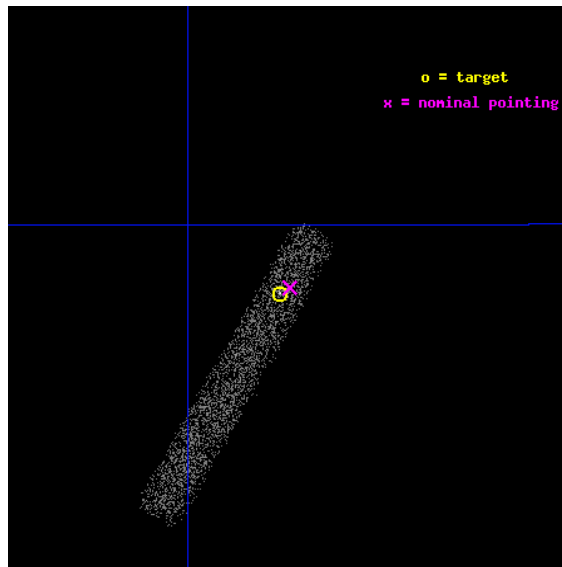
L2 Processing Date : Feb 14 2013

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# 1 Front

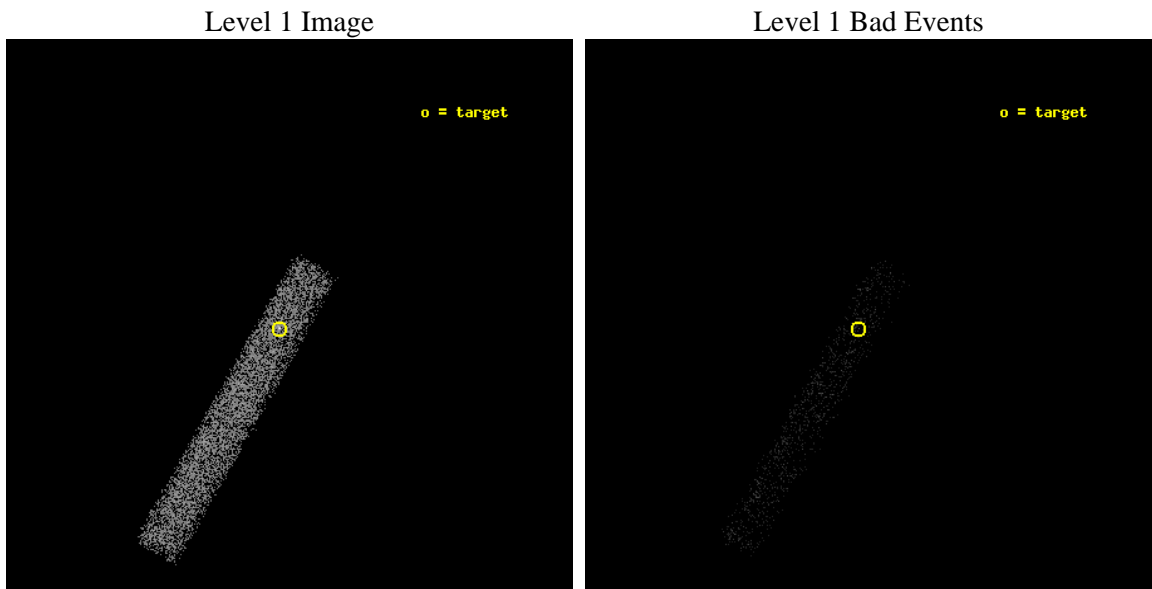
seq_num	701674	Sequence number
obs_id	9233	Observation id
title	A Chandra survey of IMBH AGNs with low Eddington ratios	Proposal t
observer	Dr Weimin Yuan	Principal investigator
object	074345.47+480813.5	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	115.939583	Observer's specified target RA [deg]
dec_targ	48.137	Observer's specified target Dec [deg]
ra_nom	115.93307993107	Nominal RA [deg]
dec_nom	48.139352937495	Nominal Dec [deg]
roll_nom	119.59282922118	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4872.7997095585	Sum of GTIs [s]
livetime	4419.3721291116	Livetime [s]
ontime7	4872.7997095585	Sum of GTIs [s]
l2events	4005	Number of level 2 events



## 2 OBI

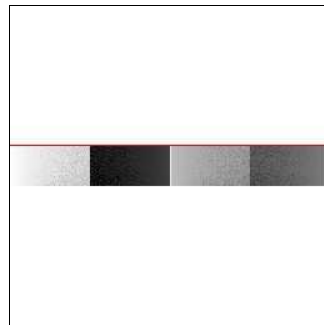
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	4872.7997095585	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime7	4872.7997095585	Sum of GTIs [s]
date	2013-02-14T23:30:50	Date and time of file creation	l1events	10564	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

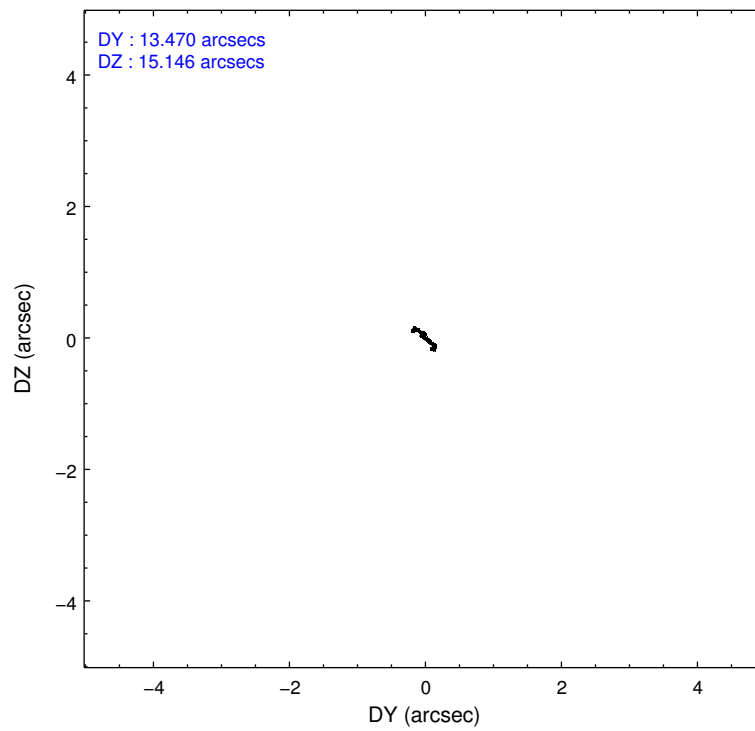
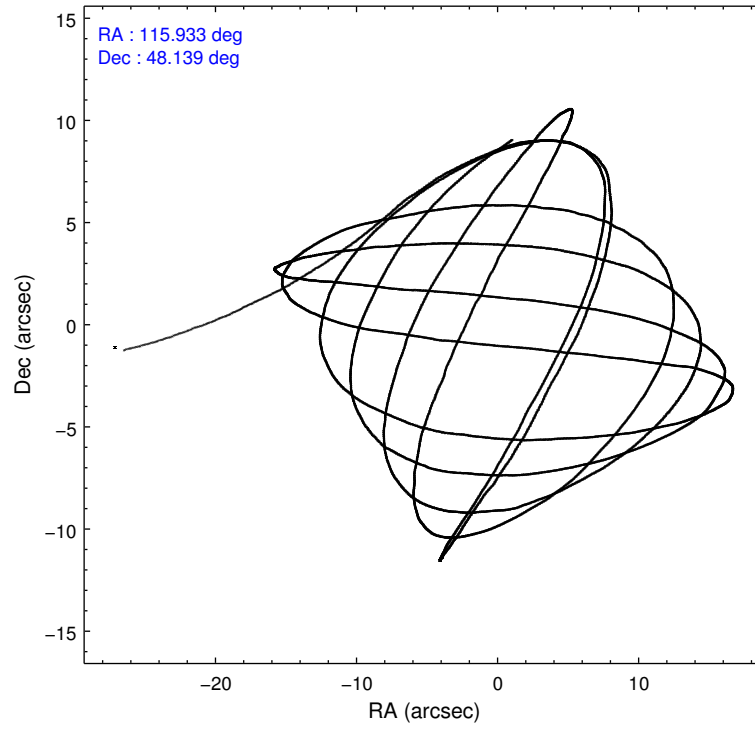
	<b>ccd 7</b>
level 1 events	10564
rejected events	6395
rejected %	60%

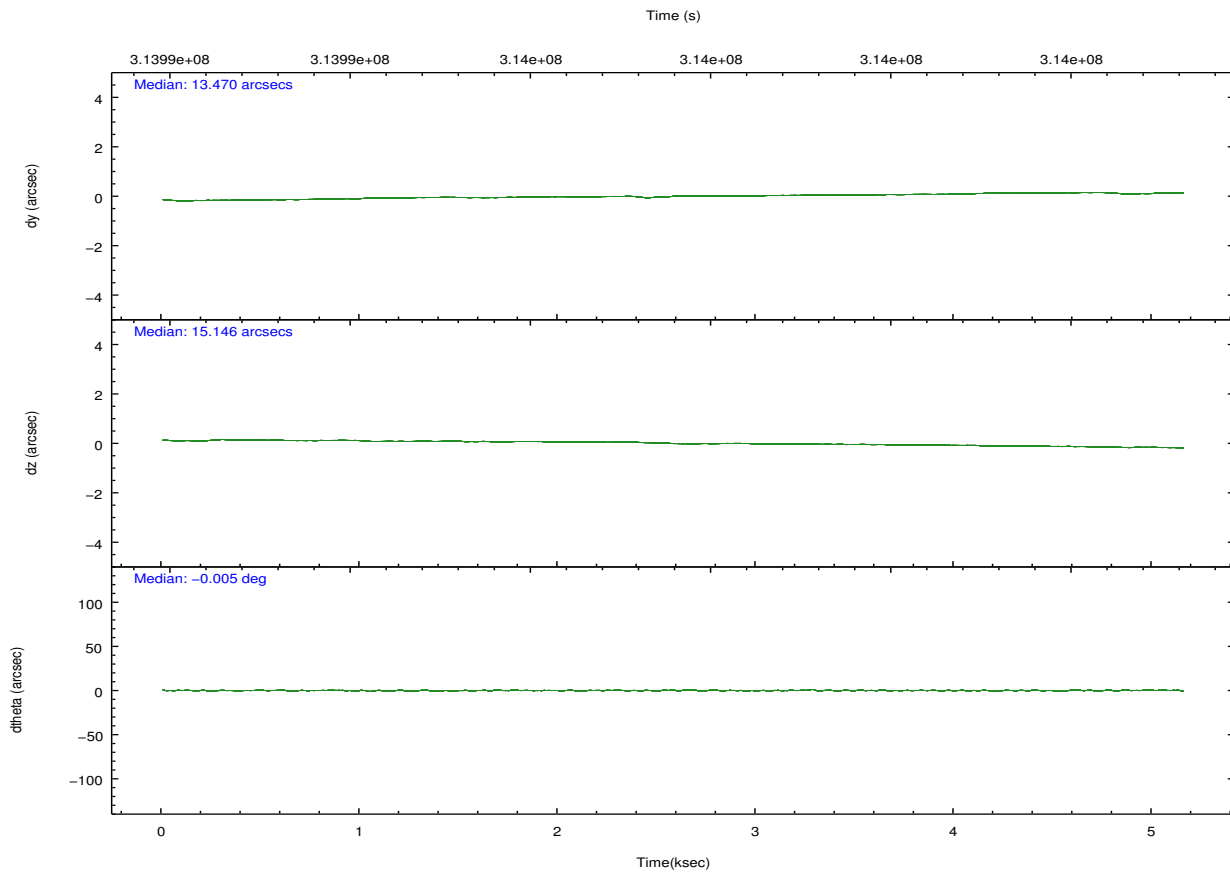
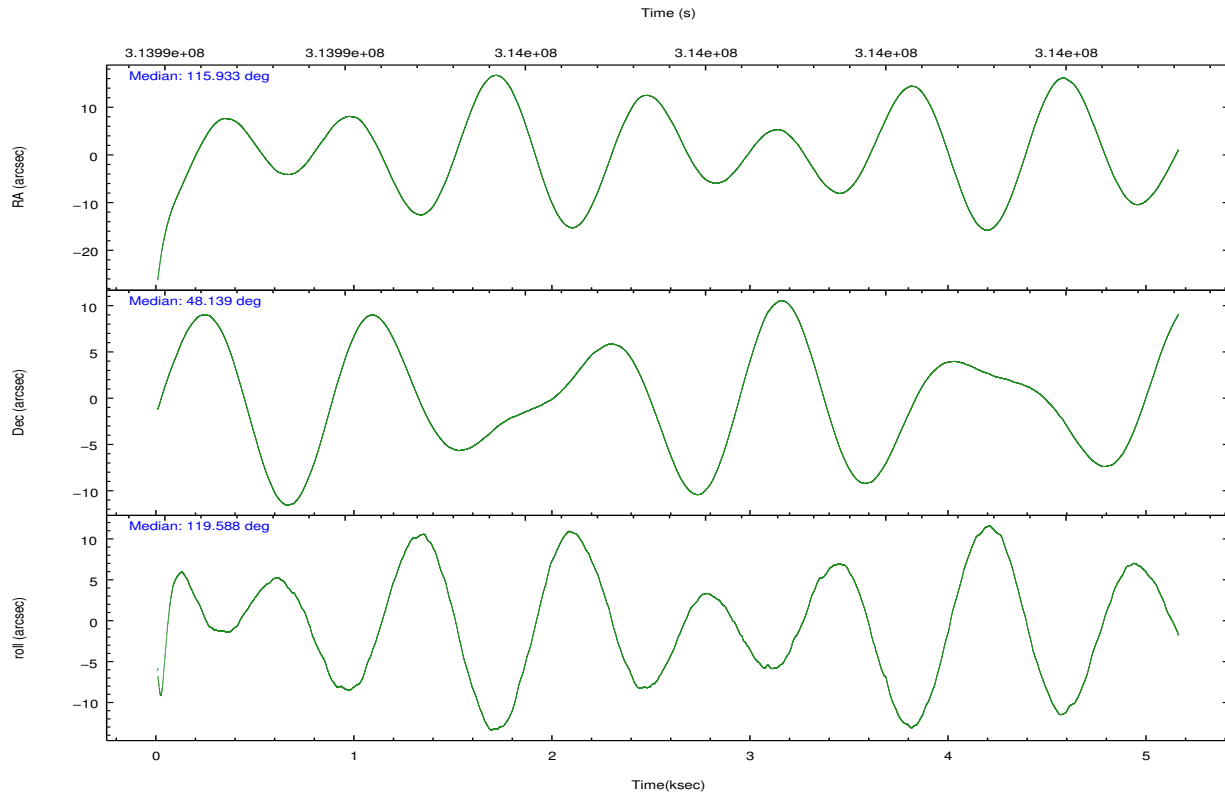
	<b>ccd 7</b>
grade 0 events	508
	4%
grade 1 events	10
	0%
grade 2 events	967
	9%
grade 3 events	627
	5%
grade 4 events	635
	6%
grade 5 events	955
	9%
grade 6 events	2277
	21%
grade 7 events	4585
	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	115.968814	115.9330799310714	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	48.125815	48.13935293749487	Subarray start row	449	449
[deg] Pointing Roll	119.409648	119.5928292211785	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	313993381.184000	313992408.00336			
Observation start date	2007-12-14T04:21:56	2007-12-14T04:06:48			
[s] Observation end time (MET)	313998381.184000	313999023.35368			
Observation end date	2007-12-14T05:45:16	2007-12-14T05:57:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect



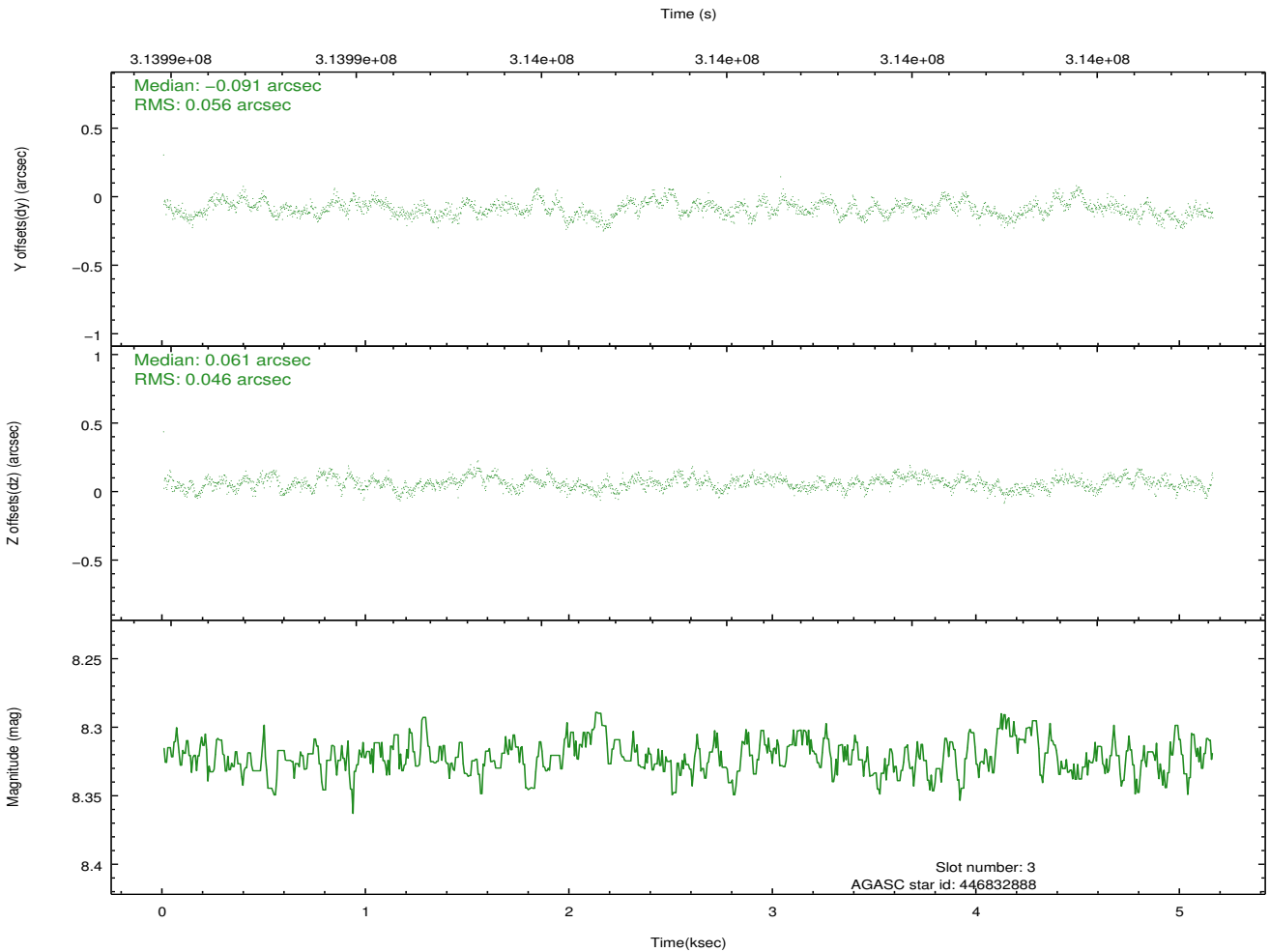
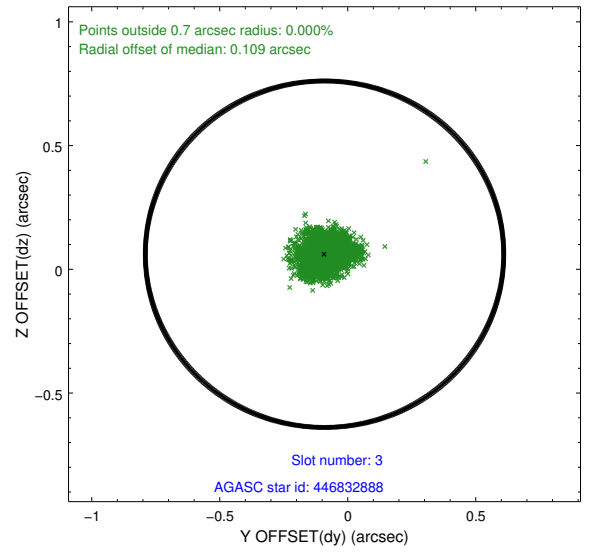
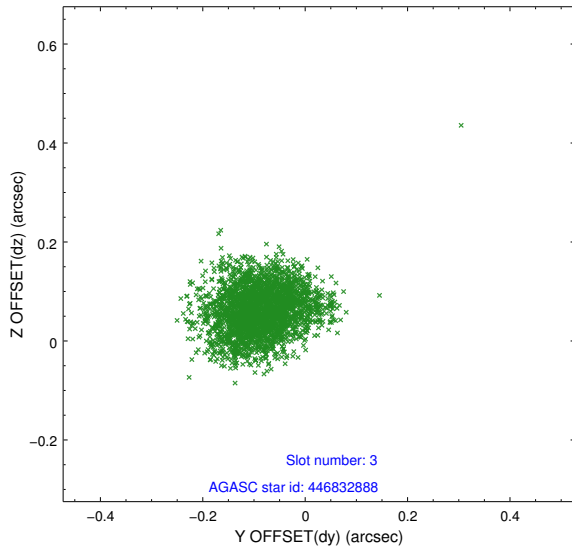


### Slot Statistics

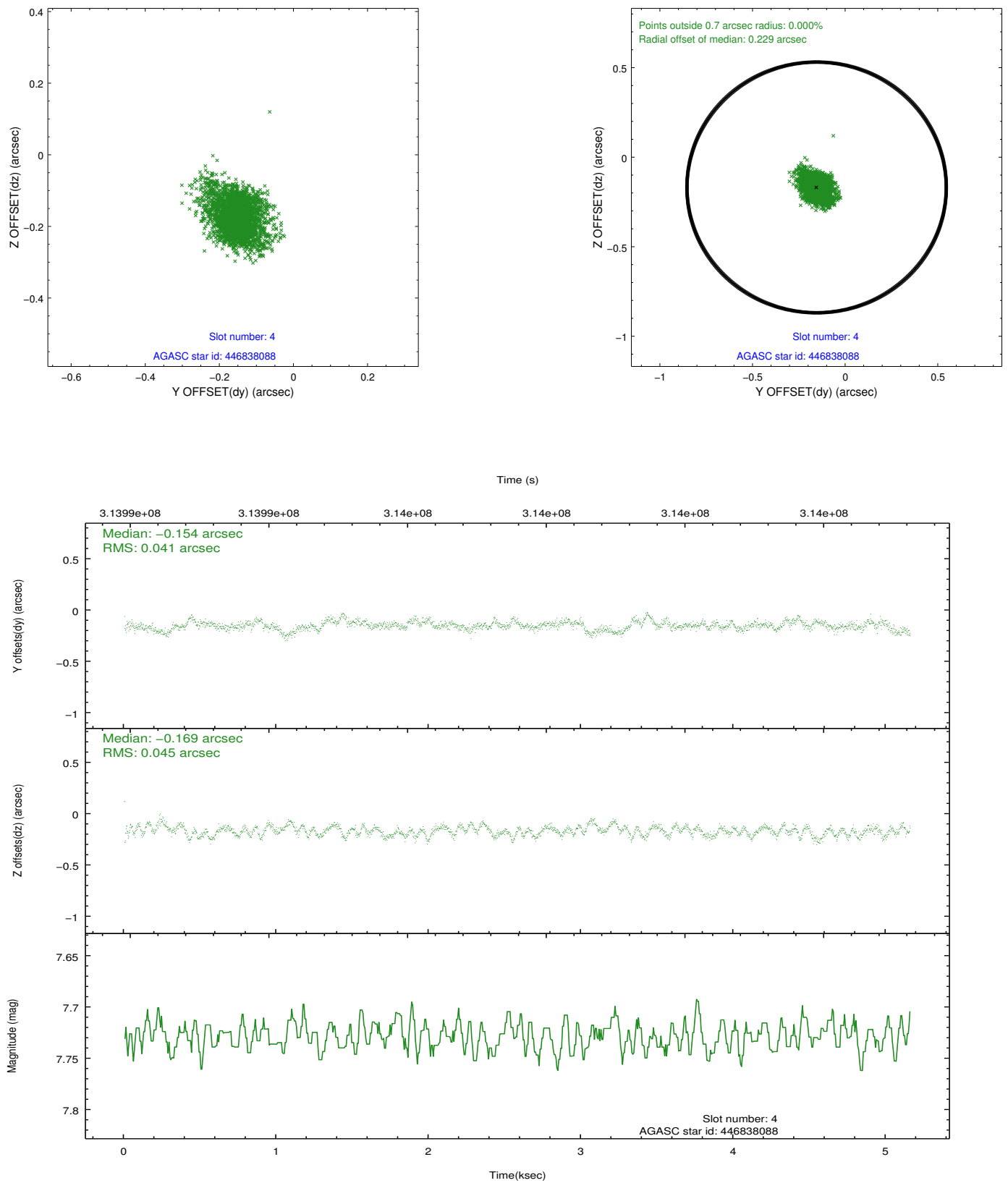
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1257	-0.059	-0.033	0.008	0.013	0.000000	0.000000	-766.43	-1736.53
1	FID	ACIS-S-4	7.19	1258	0.188	0.038	0.008	0.016	0.000000	0.000000	2146.53	170.85
2	FID	ACIS-S-5	7.22	1258	-0.159	0.004	0.007	0.014	0.000000	0.000000	-1817.89	165.77
3	GUIDE	446832888	8.32	2516	-0.091	0.061	0.077	0.123	116.222552	48.728234	1594.34	-1589.76
4	GUIDE	446838088	7.73	2516	-0.154	-0.169	0.063	0.109	115.286419	48.447607	1816.06	846.55
5	GUIDE	446960848	9.40	2513	0.054	0.139	0.100	0.157	117.022074	47.879513	-2005.14	-1788.07
6	GUIDE	446432016	8.42	2513	0.050	-0.155	0.065	0.105	115.720372	47.392952	-2001.19	1821.59
7	GUIDE	446964176	9.32	2512	0.141	0.125	0.109	0.175	117.066819	48.174060	-1127.16	-2389.94

## 2.4 Star Slots

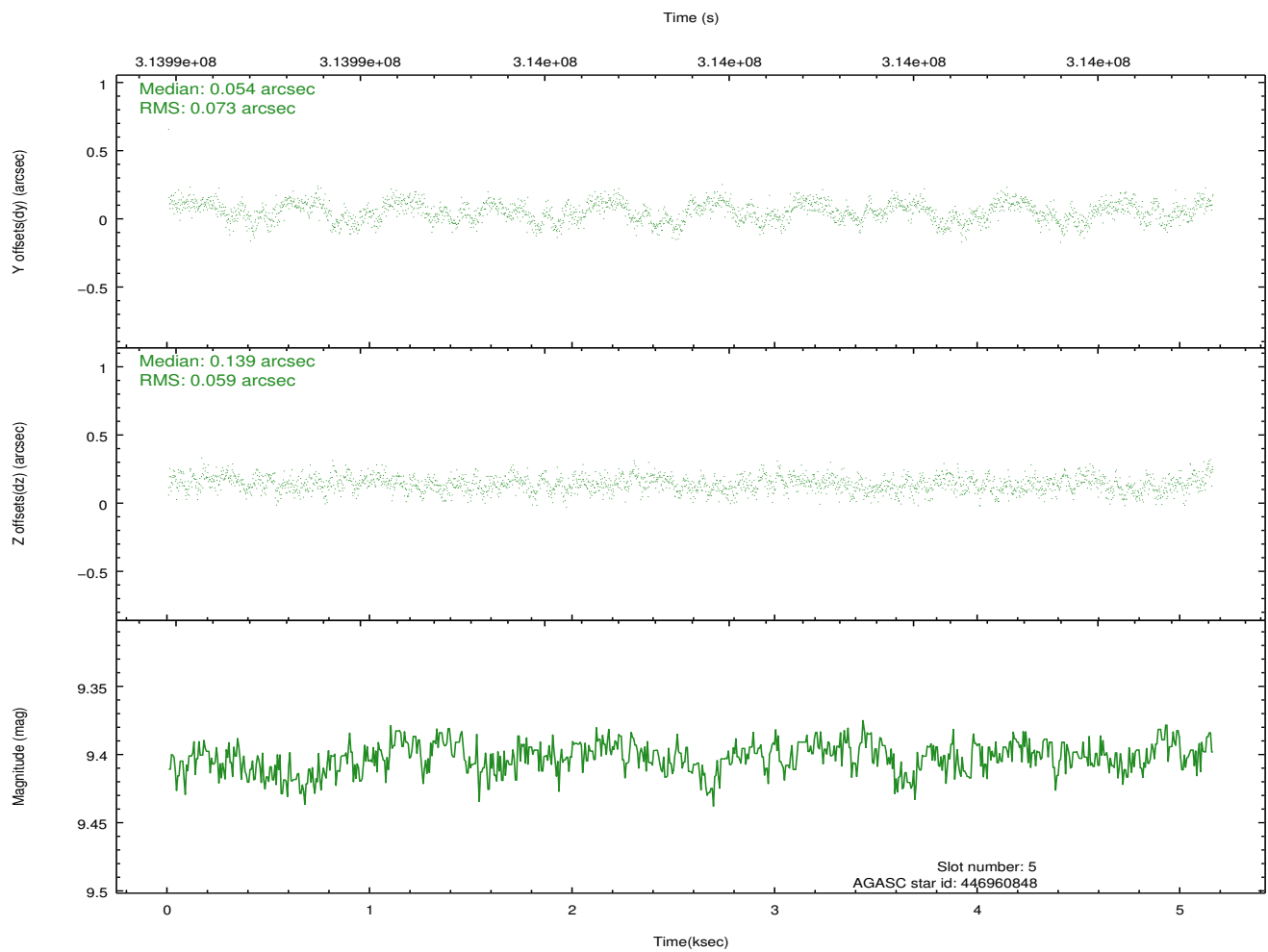
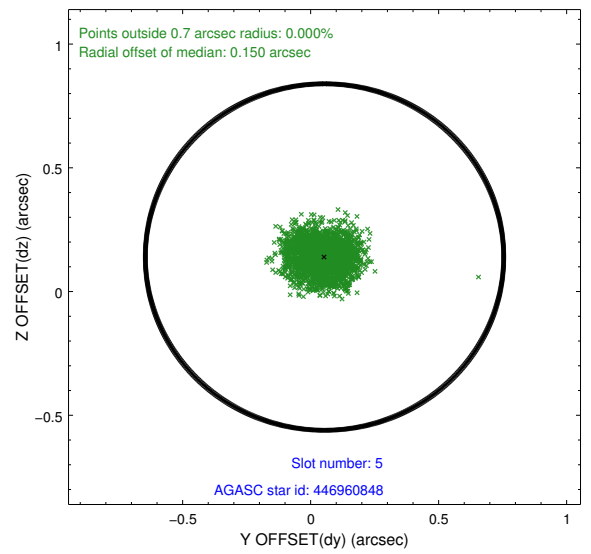
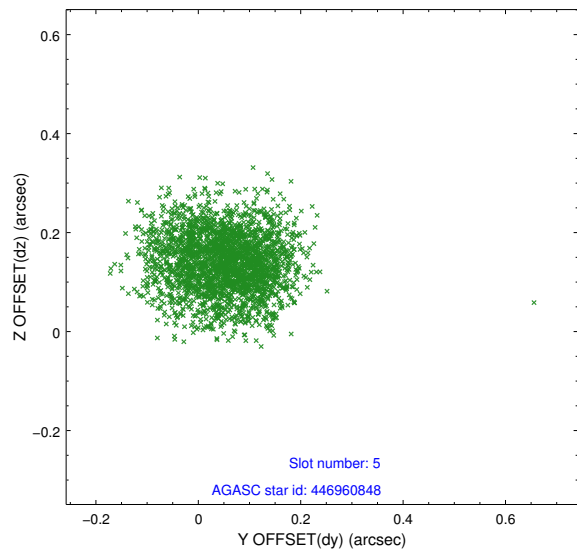
### 2.4.1 Slot 3



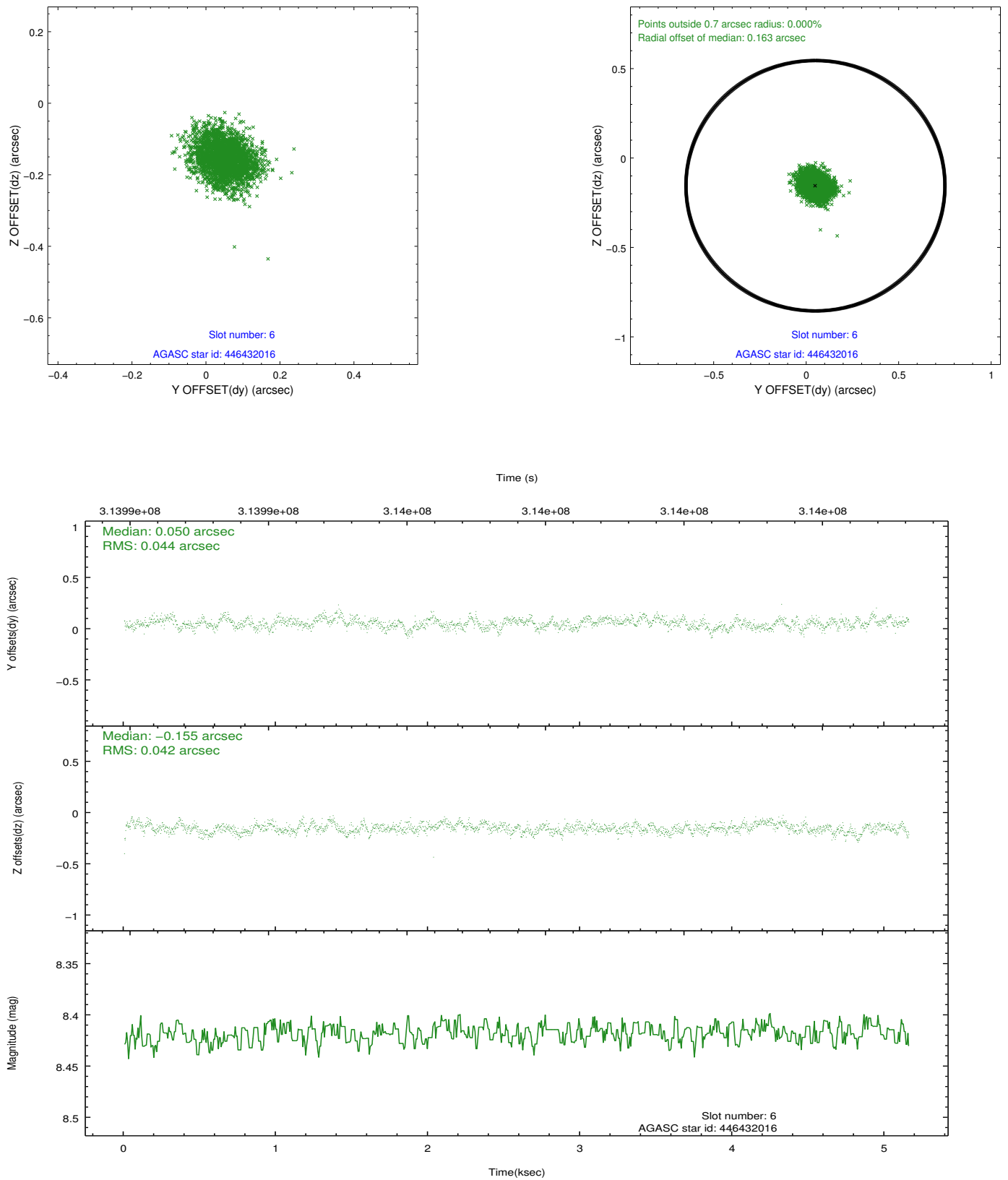
## 2.4.2 Slot 4



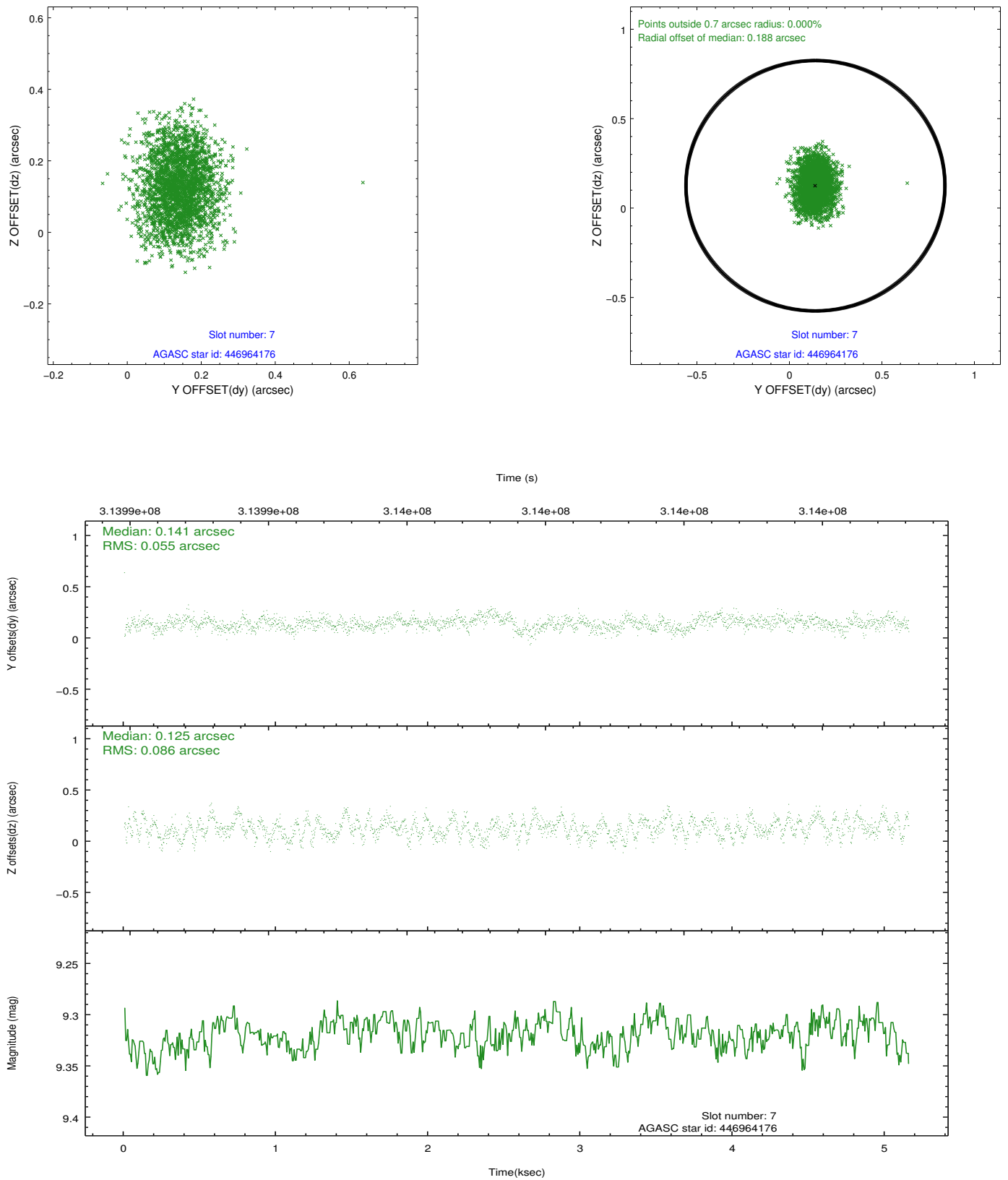
### 2.4.3 Slot 5



## 2.4.4 Slot 6

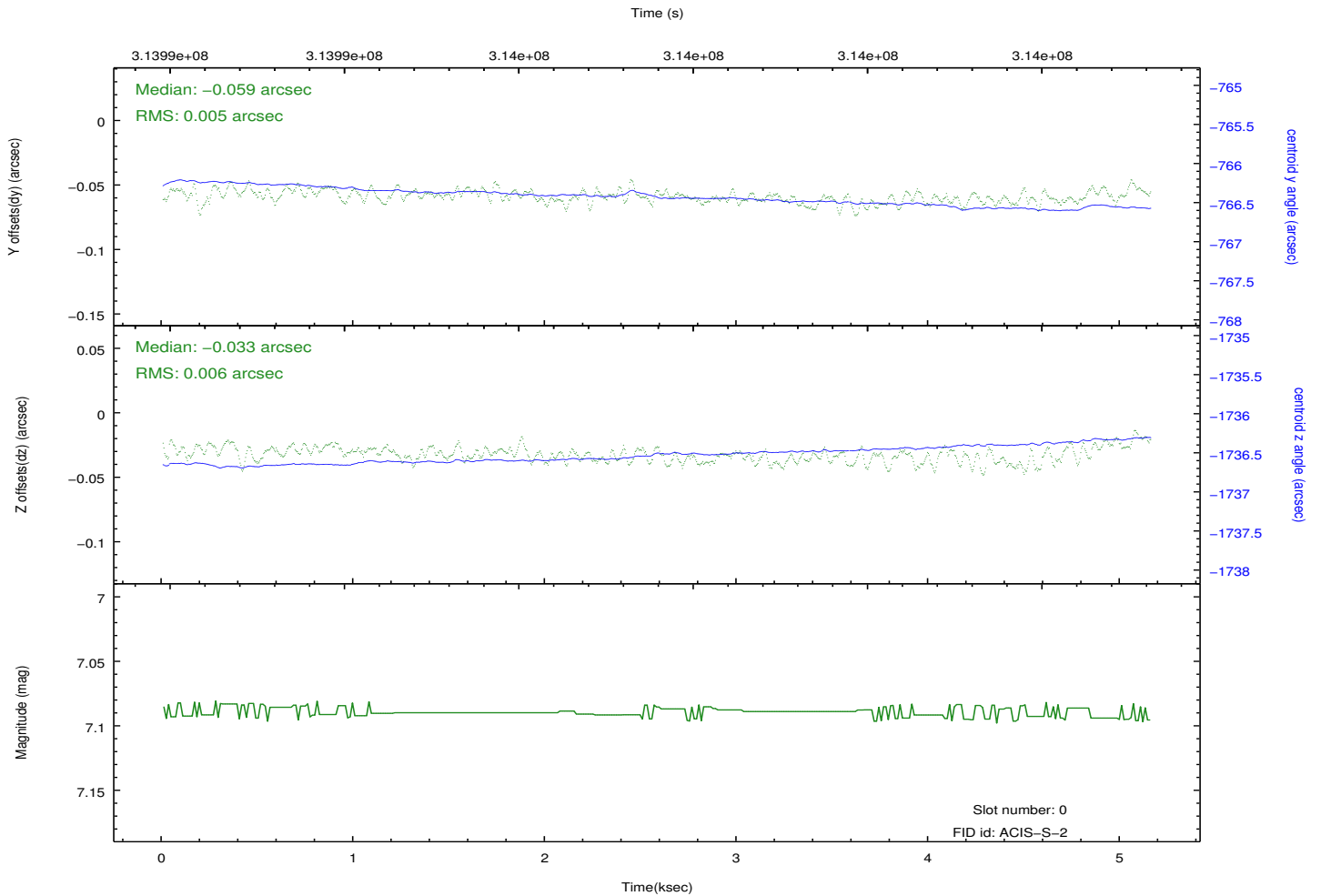
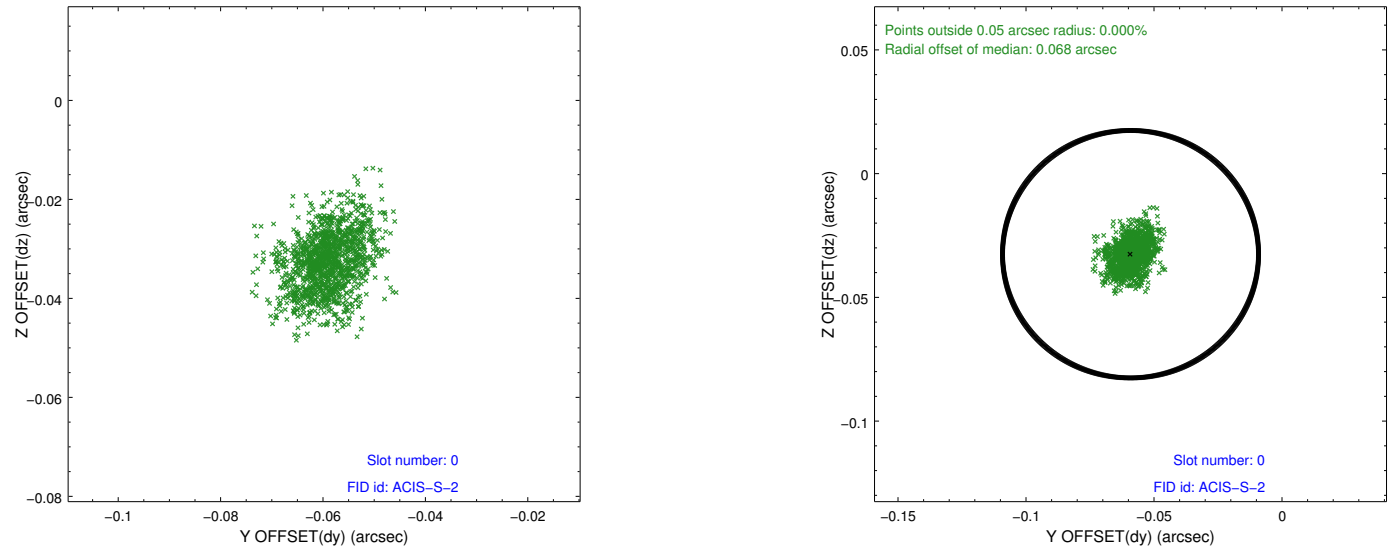


## 2.4.5 Slot 7

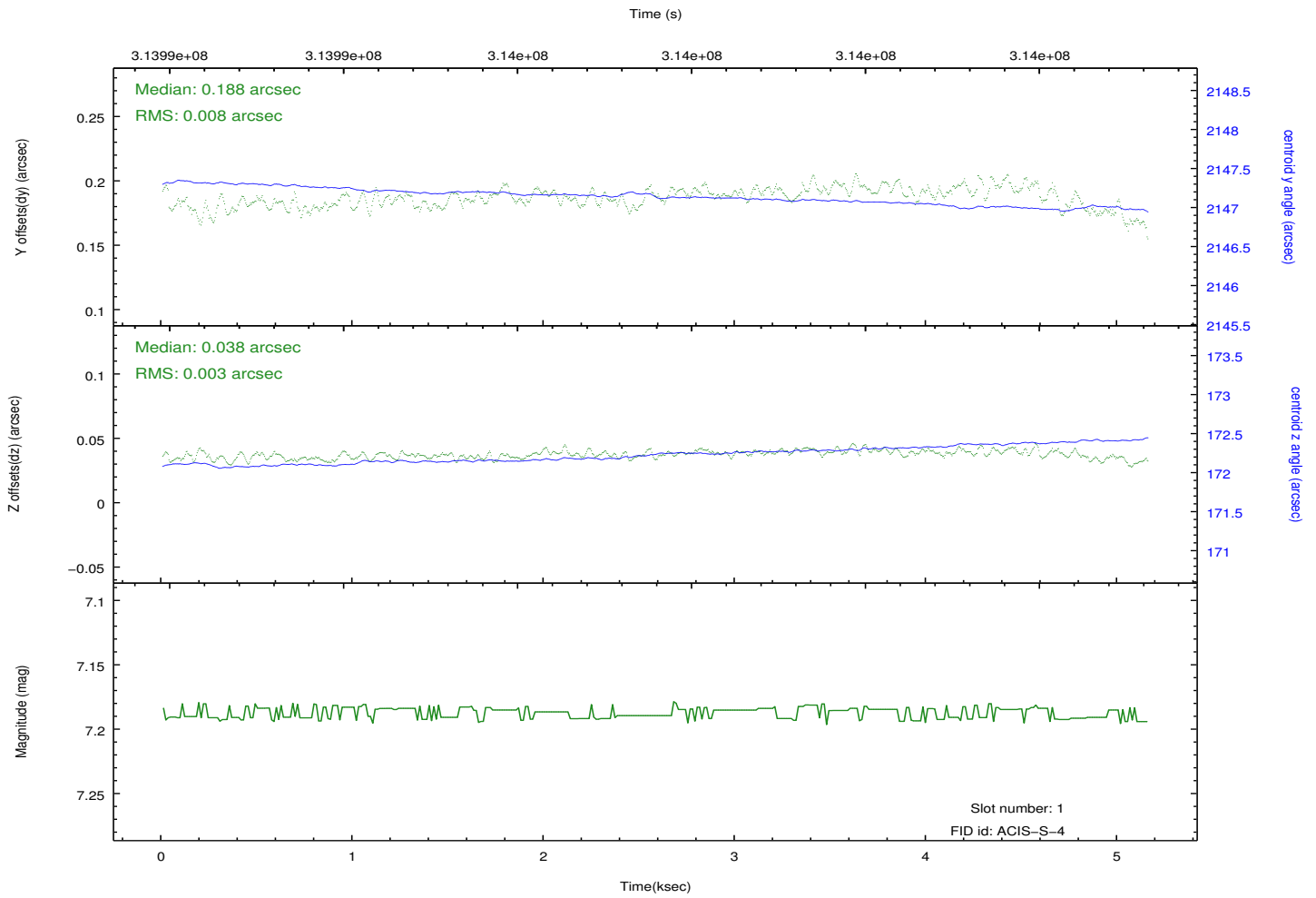
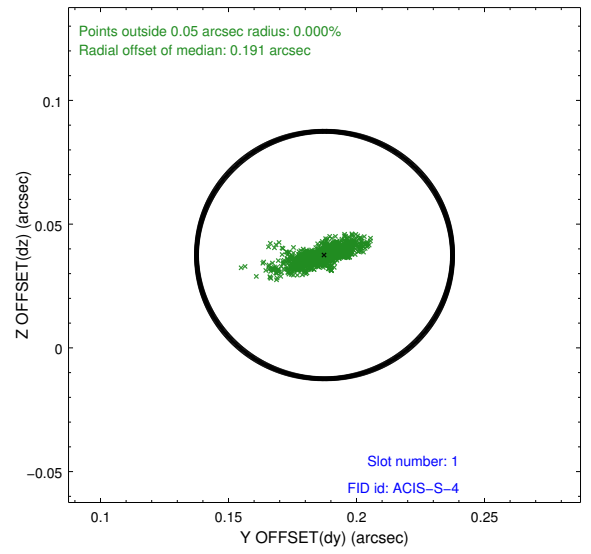
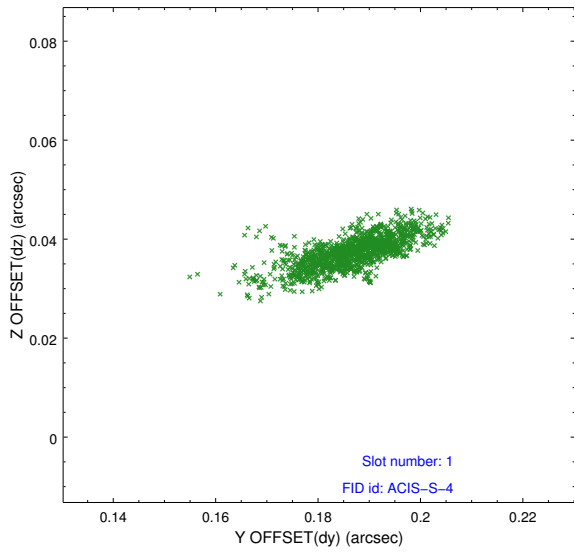


## 2.5 FID Slots

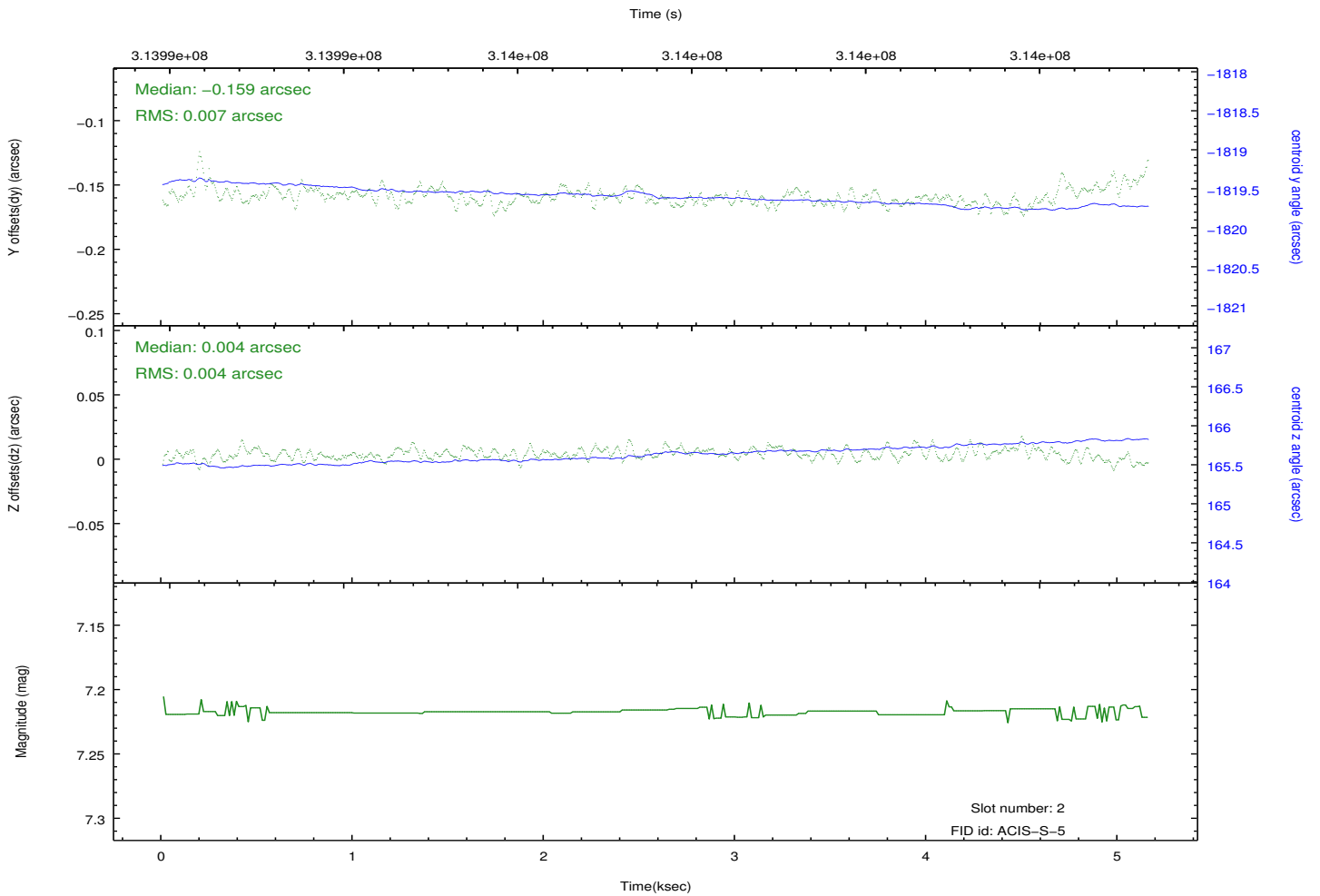
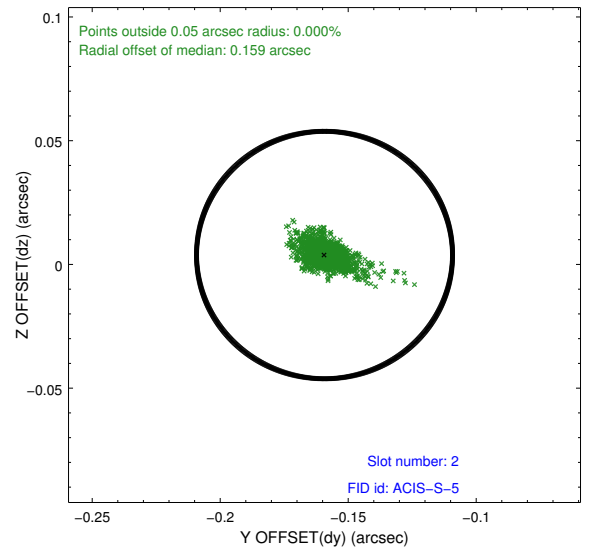
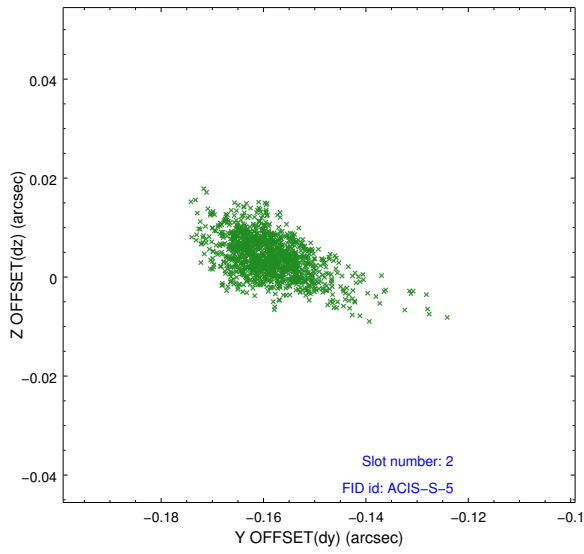
### 2.5.1 Slot 0



## 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)	2013.02.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1552

## A.2 Comments

Charge time for this ObsId remains at previous value of 5.1552 ks, although with the current processing the charge time would be 4.8728 ks.

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No ACIS housekeeping data were collected and downlinked for this observation, due to an unexpected shutdown of DPA side B. The only negative impact on the observation is the lack of an accurate focal plane temperature which is used for instrument calibration. In order to process the data, ACIS housekeeping files were constructed that assumed a focal plane temperature of -118.96 degrees C. This value was determined by interpolating between the FP temp values before the anomaly and after DPA side B was turned back on. Data for the analysis was obtained from MTA group in dataseeker. Details of workaround procedure are documented in log file for ACIS level 1 processing.