

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2135 - L2 Version 4  
Chandra X-Ray Center

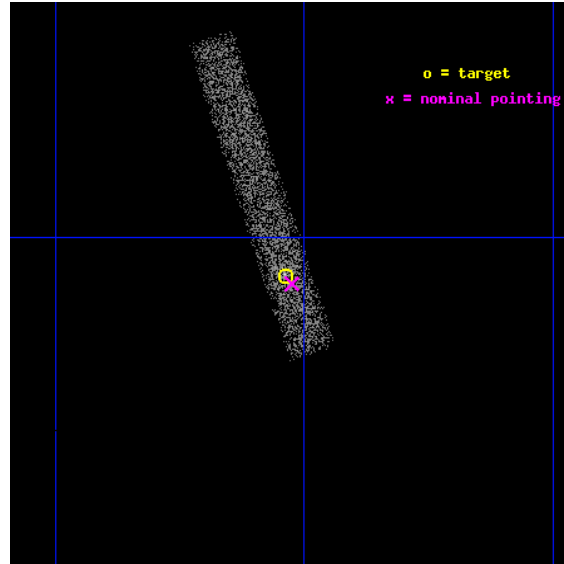
L2 Processing Date : Oct 4 2012

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# 1 Front

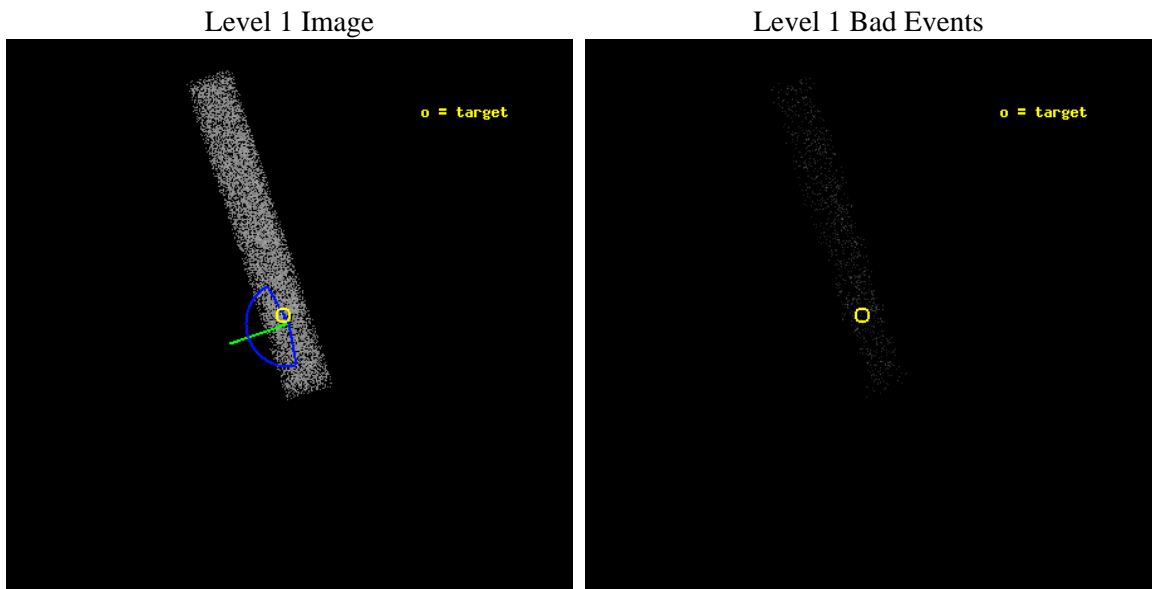
seq_num	700325	Sequence number
obs_id	2135	Observation id
title	AN UNBIASED SURVEY OF X-RAY AND OPTICAL EMISSION FROM EXTENDED RADIO JETS IN AGN	Proposal title
observer	Dr. Rita Sambruna	Principal investigator
object	0836+299	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.009583	Observer's specified target RA [deg]
dec_targ	29.816667	Observer's specified target Dec [deg]
ra_nom	130.00622436541	Nominal RA [deg]
dec_nom	29.813279122096	Nominal Dec [deg]
roll_nom	251.84887613195	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8265.1590831876	Sum of GTIs [s]
livetime	7496.0630175835	Livetime [s]
ontime7	8265.1590831876	Sum of GTIs [s]
l2events	5922	Number of level 2 events



## 2 OBI

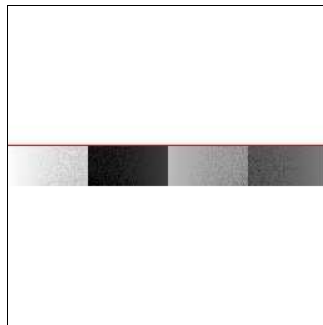
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8265.1590831876	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime7	8265.1590831876	Sum of GTIs [s]
date	2012-10-04T13:53:12	Date and time of file creation	l1events	11391	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

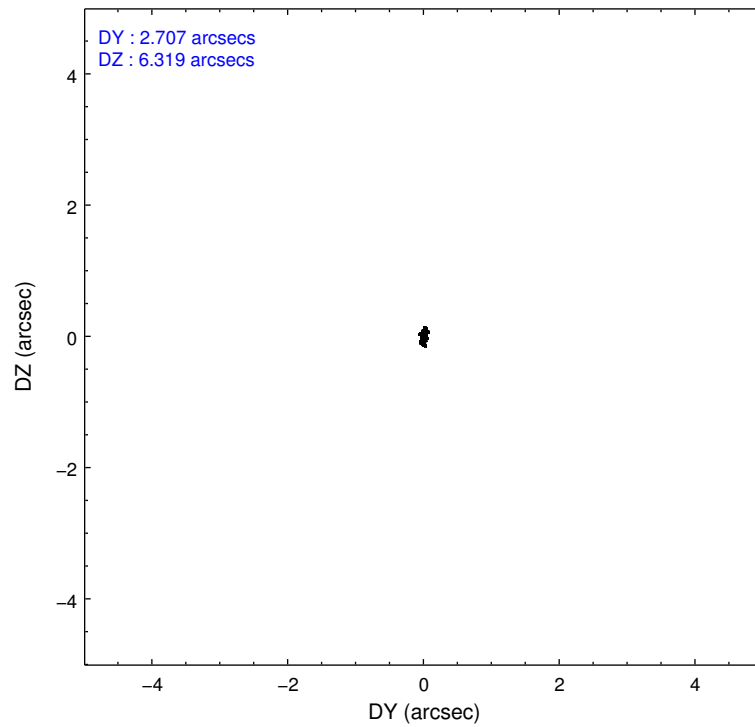
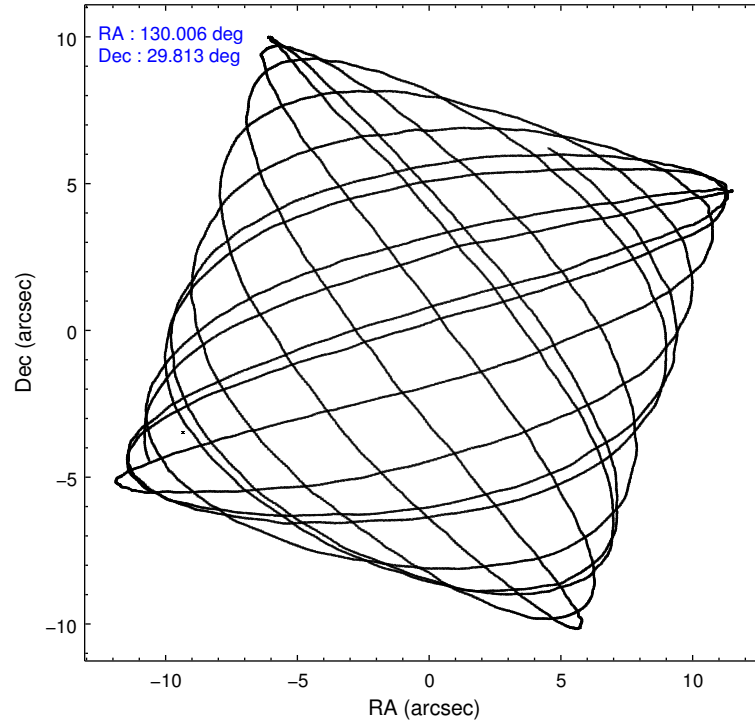
	<b>ccd 7</b>
level 1 events	11391
rejected events	5238
rejected %	45%

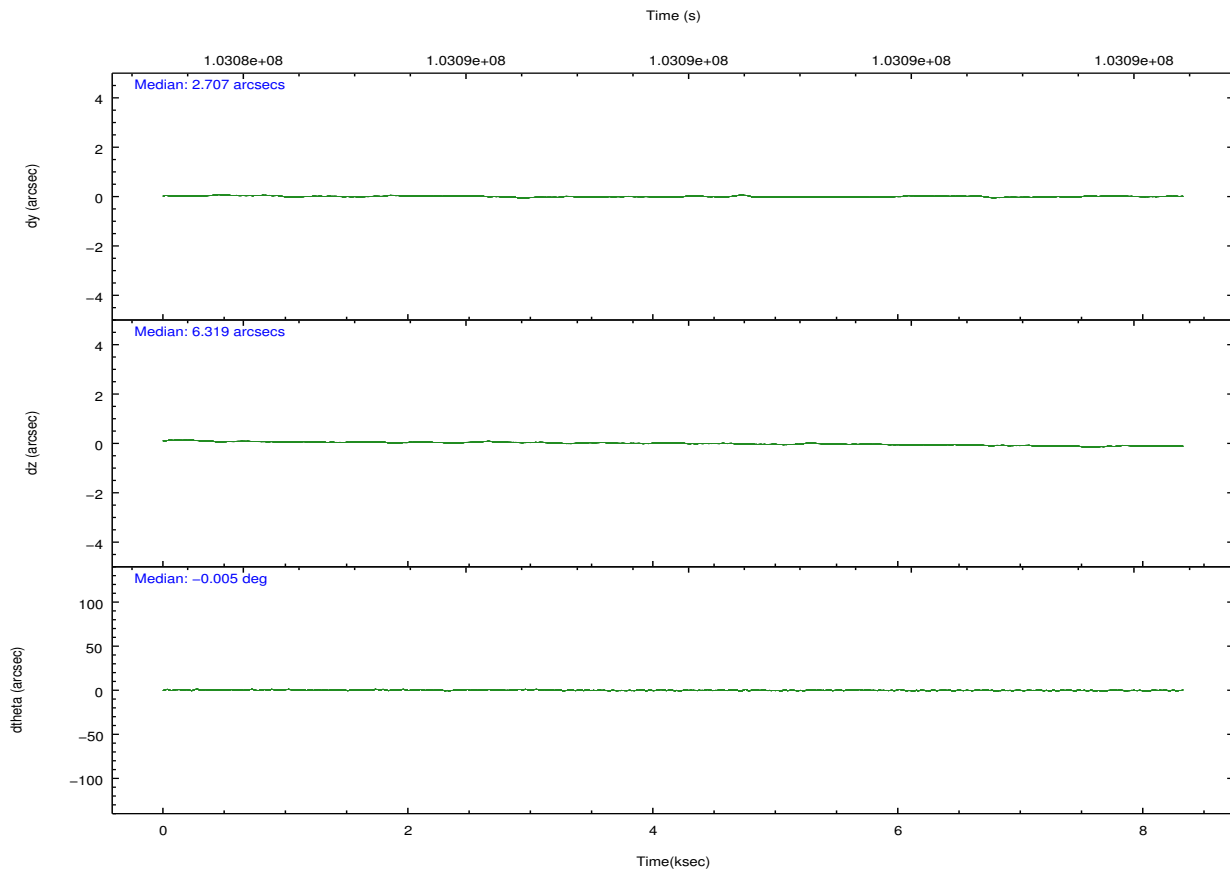
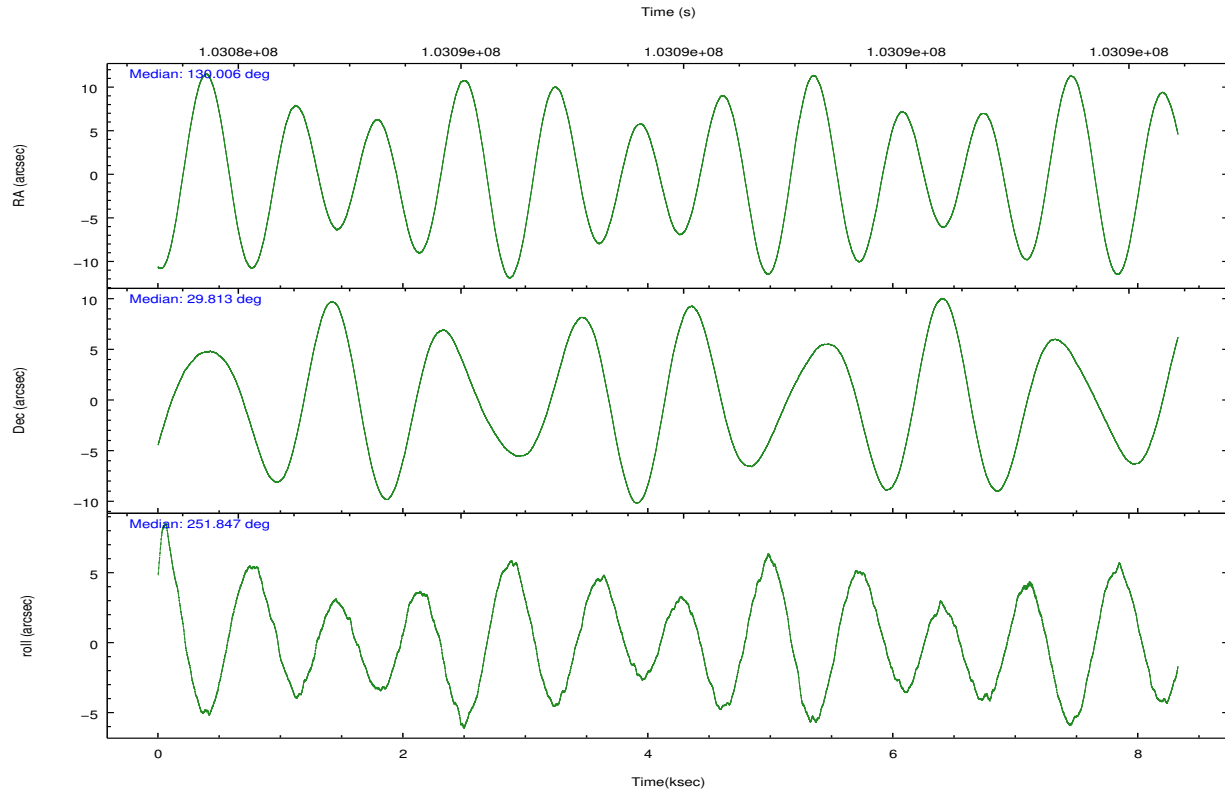
	<b>ccd 7</b>
grade 0 events	737
	6%
grade 1 events	18
	0%
grade 2 events	1226
	10%
grade 3 events	671
	5%
grade 4 events	767
	6%
grade 5 events	951
	8%
grade 6 events	2782
	24%
grade 7 events	4239
	37%

## 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	OVERRIDE	OVERRIDE
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	129.999434	130.0062243654119	Subarray requested	1/8	1/8
[deg] Pointing Dec	29.839947	29.8132791220965	Subarray start row	449	449
[deg] Pointing Roll	251.695642	251.8488761319505	Subarray row count	128	128
[deg] Roll angle	250.000000	250.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	79.000000	79.000000	[s] Primary exposure time	0.4	0.4
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1400660498719	-190.1400660498719			
[mm] SIM translation stage offset	0.007542945904702947	0.007542945904702947			
[s] Observation start time (MET)	103083697.184000	103083697.184			
Observation start date	2001-04-08T02:20:33	2001-04-08T02:21:37			
[s] Observation end time (MET)	103092025.000000	103092025			
Observation end date	2001-04-08T04:40:25	2001-04-08T04:40:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect



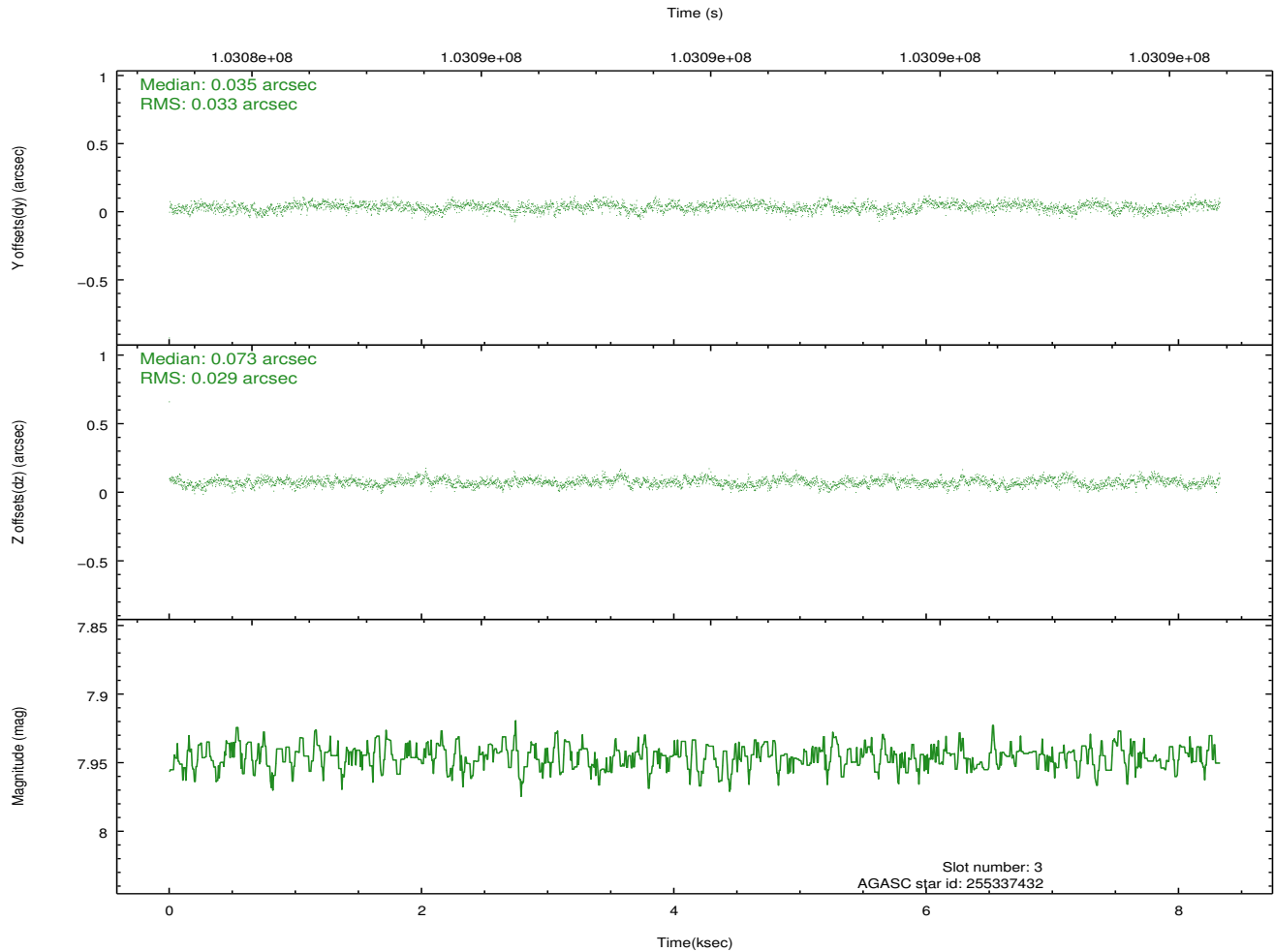
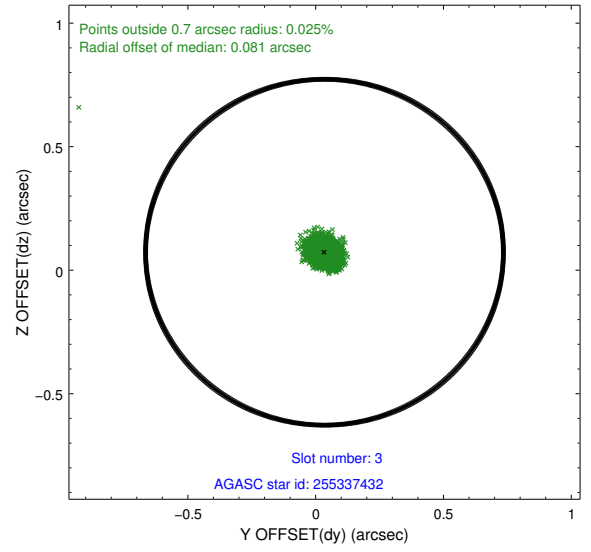
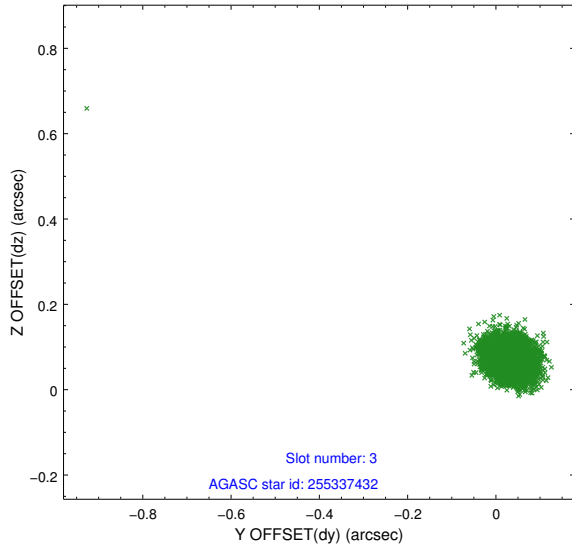


### Slot Statistics

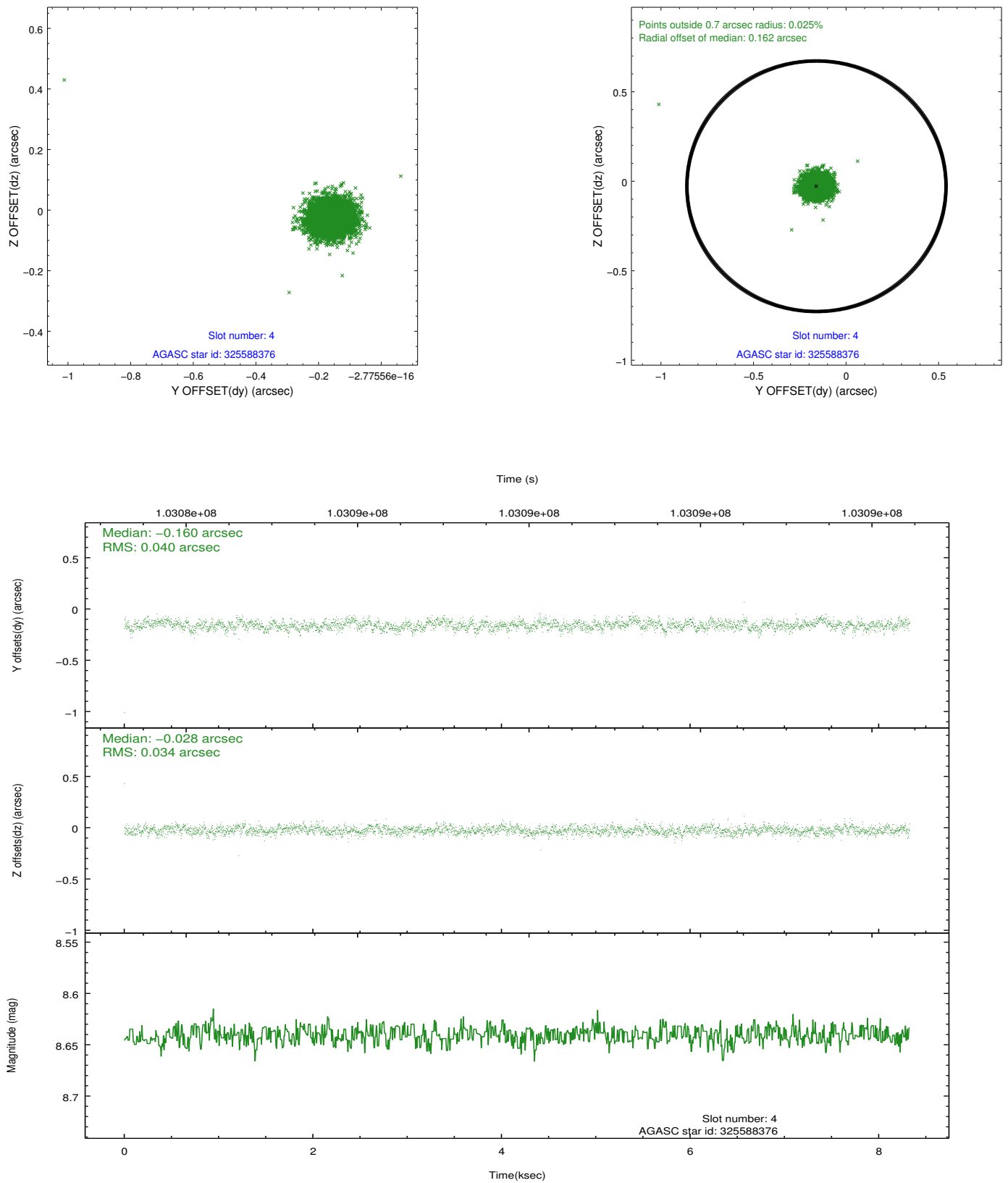
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2031	-0.020	0.016	0.007	0.011	0.000000	0.000000	-755.33	-1727.46
1	FID	ACIS-S-4	7.19	2031	-0.061	0.006	0.005	0.010	0.000000	0.000000	2157.57	180.38
2	FID	ACIS-S-5	7.23	2032	0.050	-0.013	0.007	0.011	0.000000	0.000000	-1807.28	174.72
3	GUIDE	255337432	7.95	4060	0.035	0.073	0.043	0.069	130.226540	29.206439	1939.27	1394.24
4	GUIDE	325588376	8.64	4059	-0.160	-0.028	0.053	0.086	129.822047	30.497908	-2077.22	-1265.82
5	GUIDE	255333696	8.49	4060	-0.114	0.129	0.060	0.099	130.413204	29.994468	-937.31	1049.56
6	GUIDE	255332544	8.65	4061	0.163	0.010	0.050	0.082	130.024735	29.283160	1876.79	705.76
7	GUIDE	325597432	9.06	4059	0.075	-0.186	0.071	0.115	129.545418	30.018886	-170.31	-1546.38

## 2.4 Star Slots

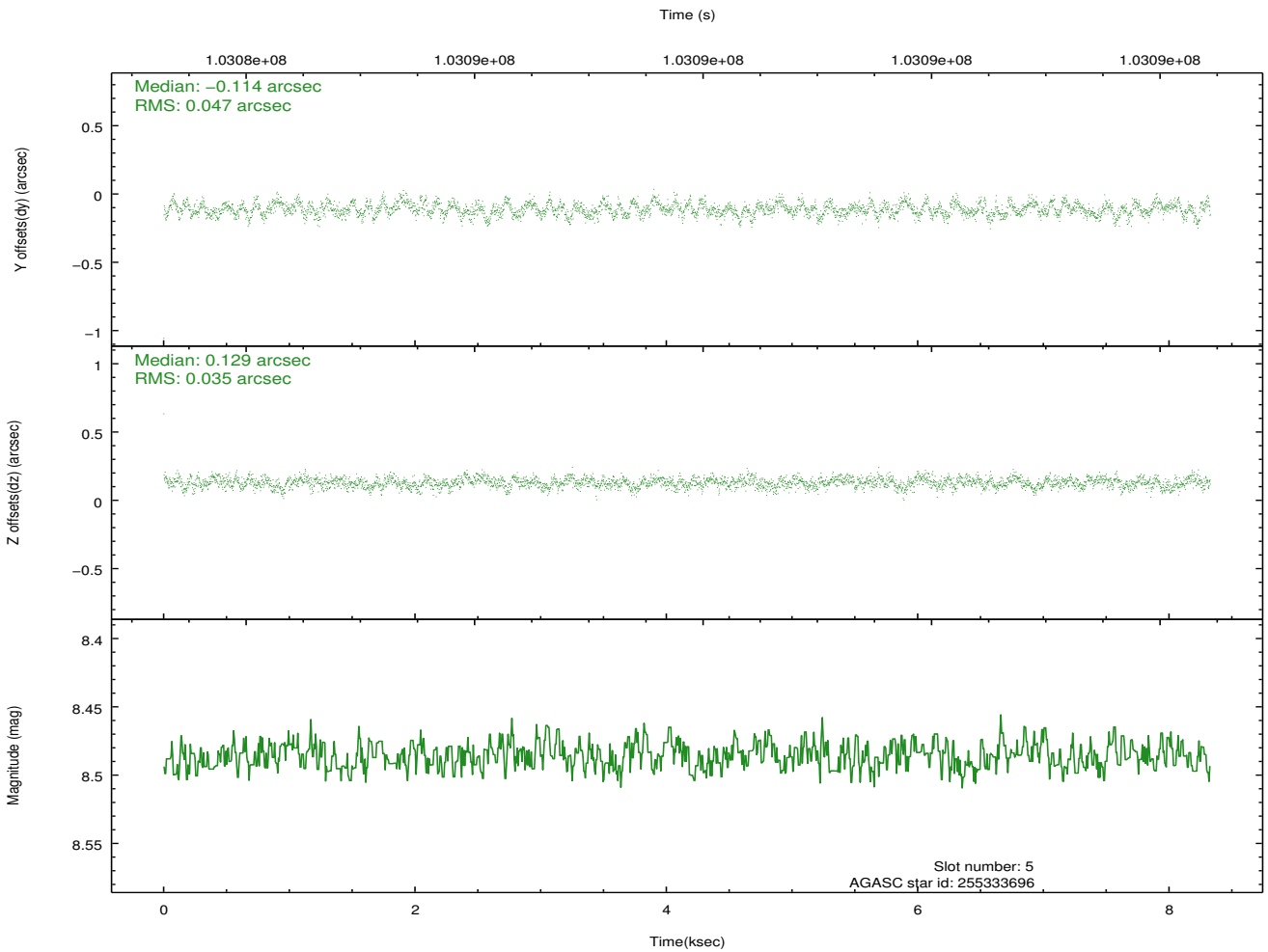
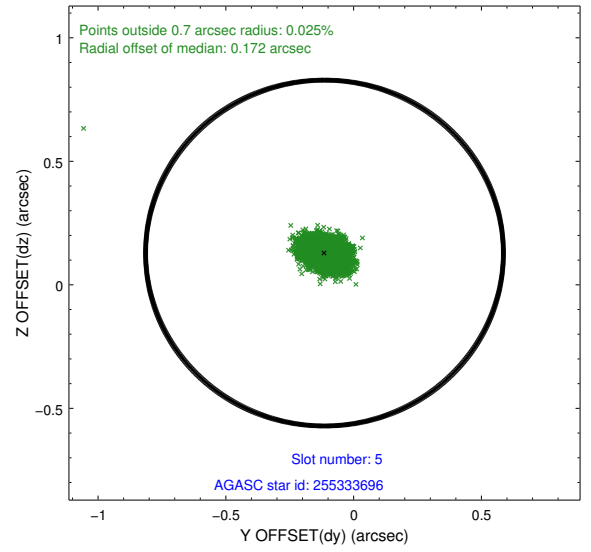
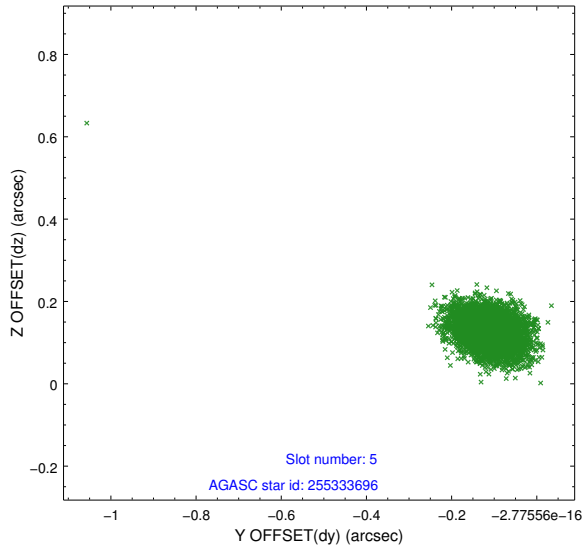
### 2.4.1 Slot 3



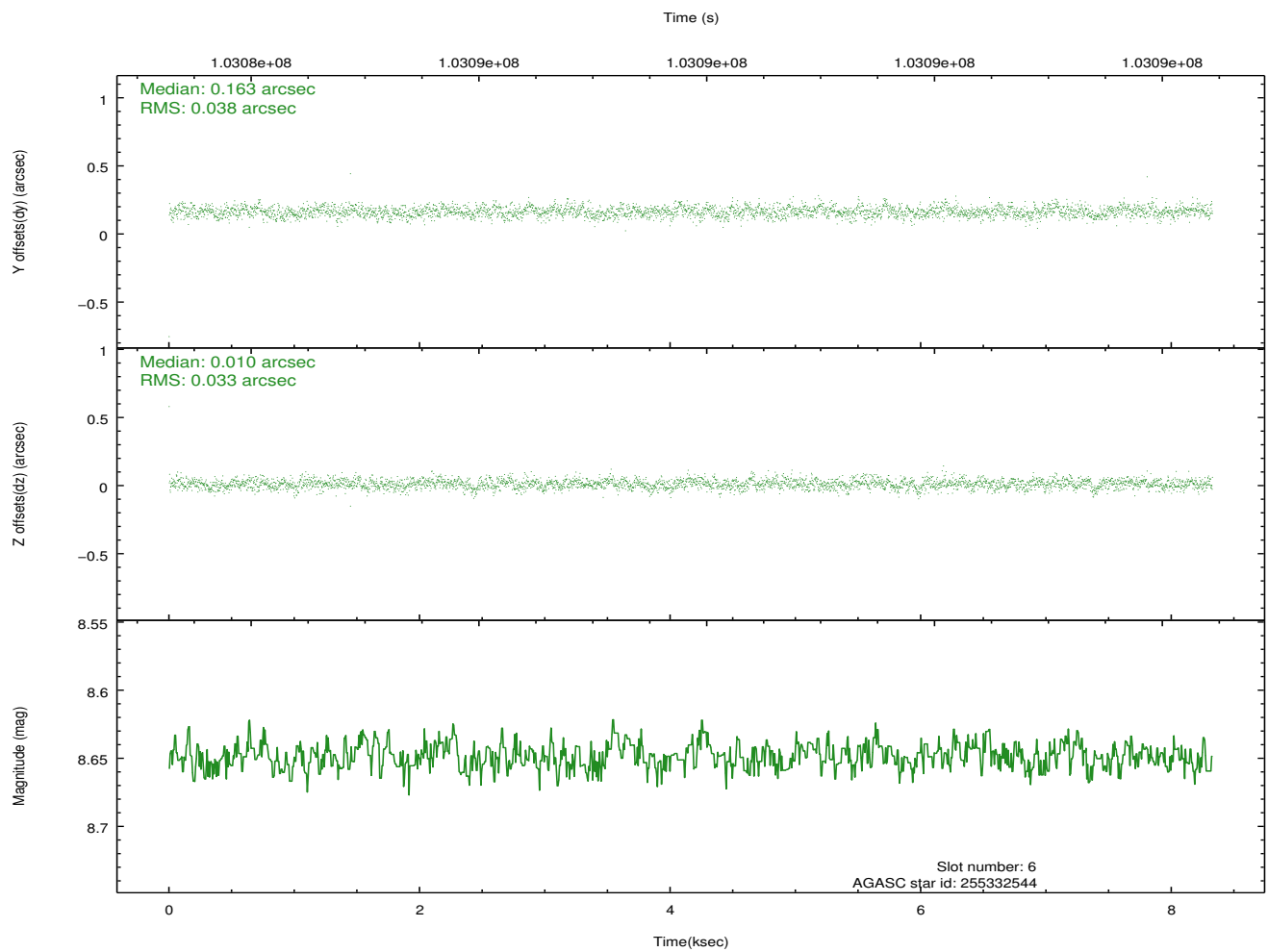
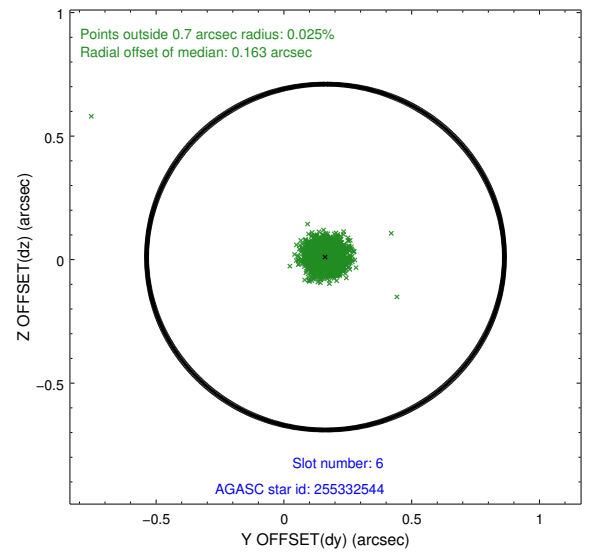
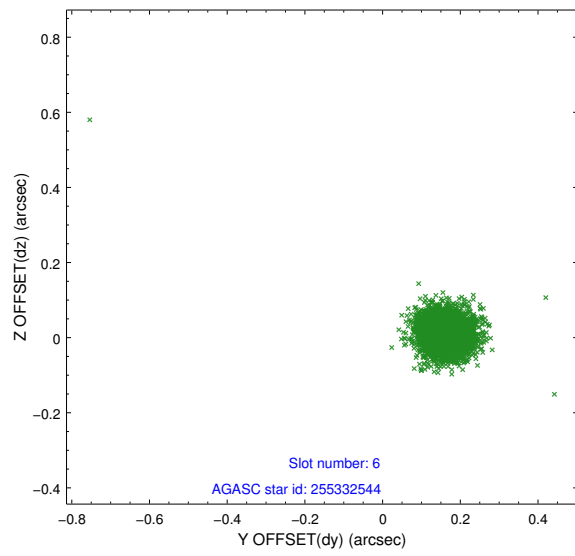
## 2.4.2 Slot 4



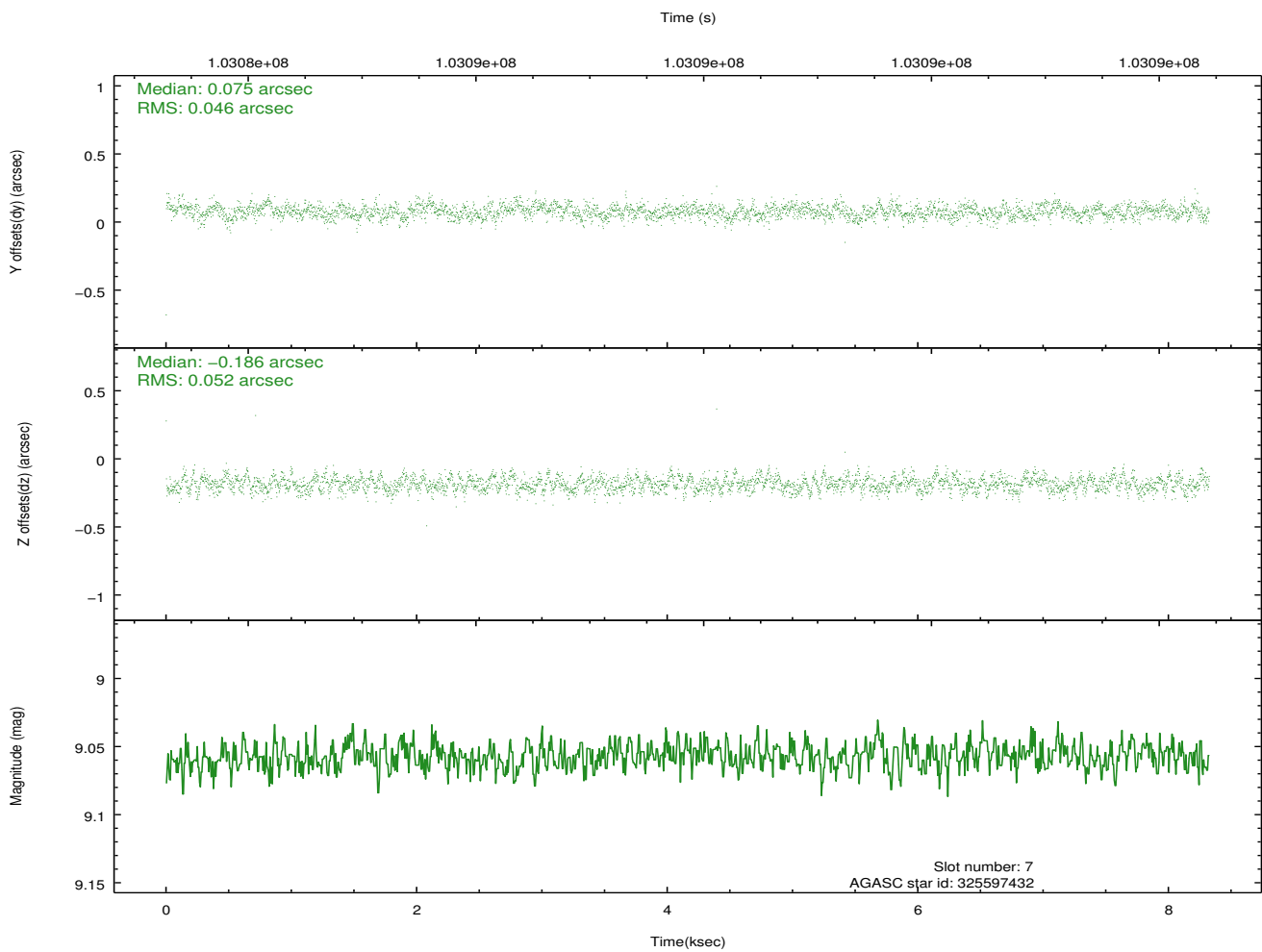
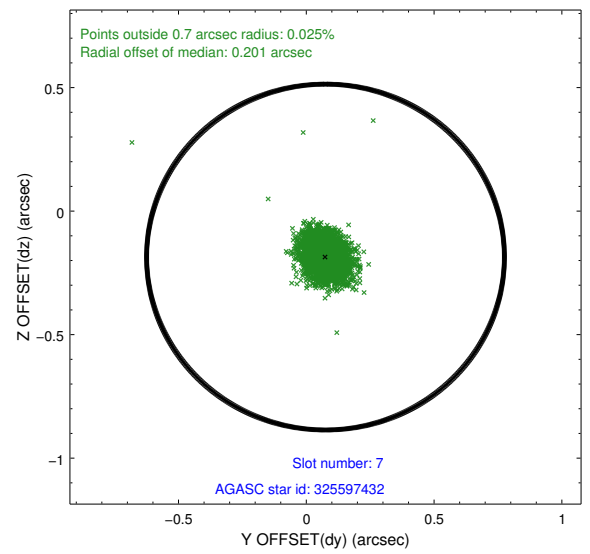
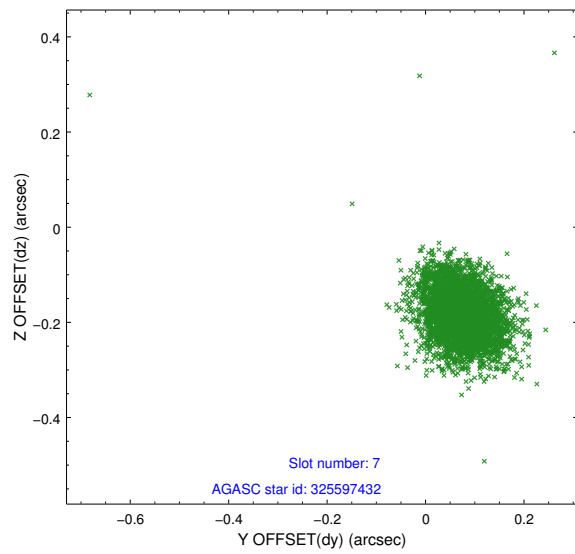
### 2.4.3 Slot 5



## 2.4.4 Slot 6

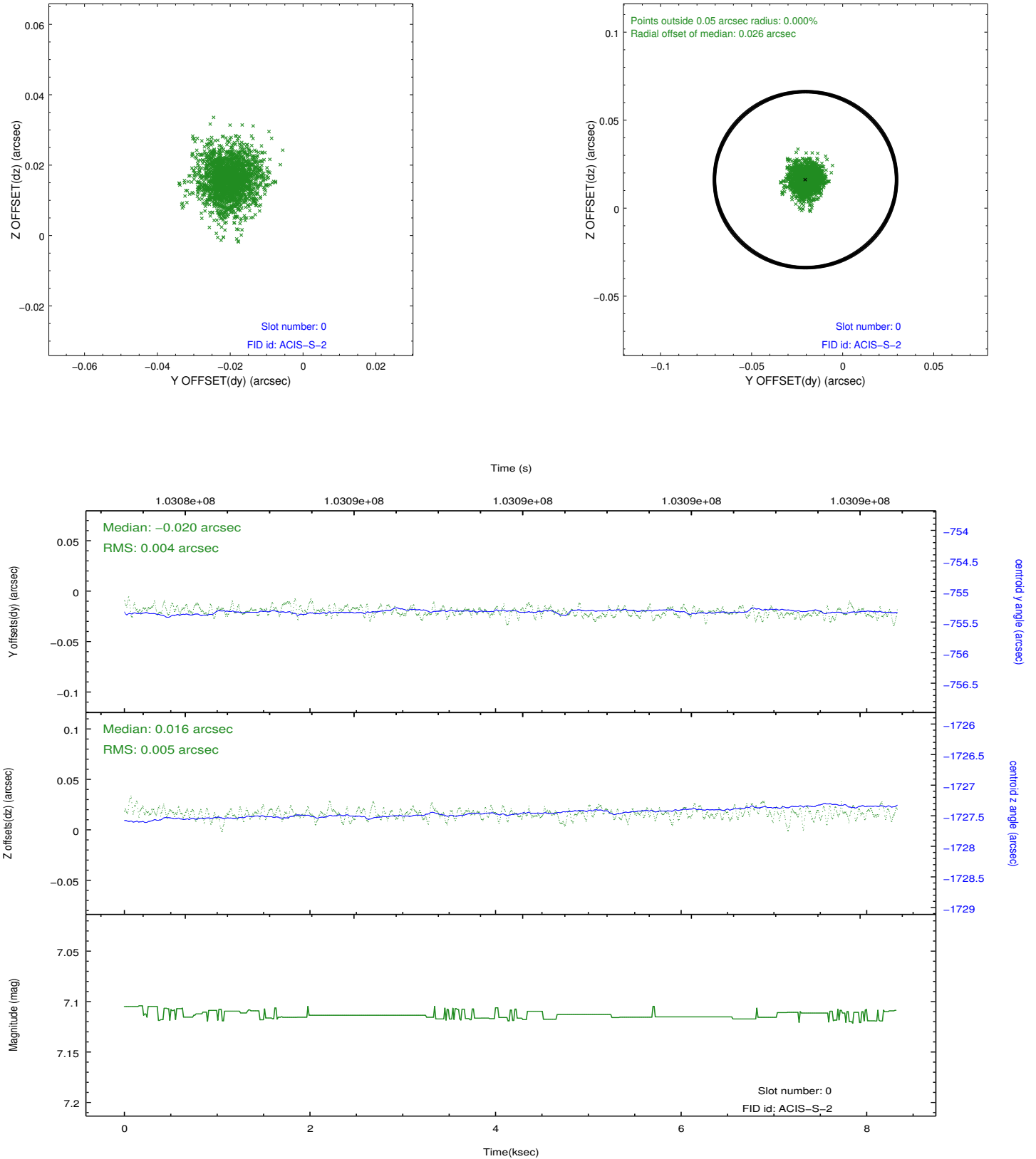


## 2.4.5 Slot 7

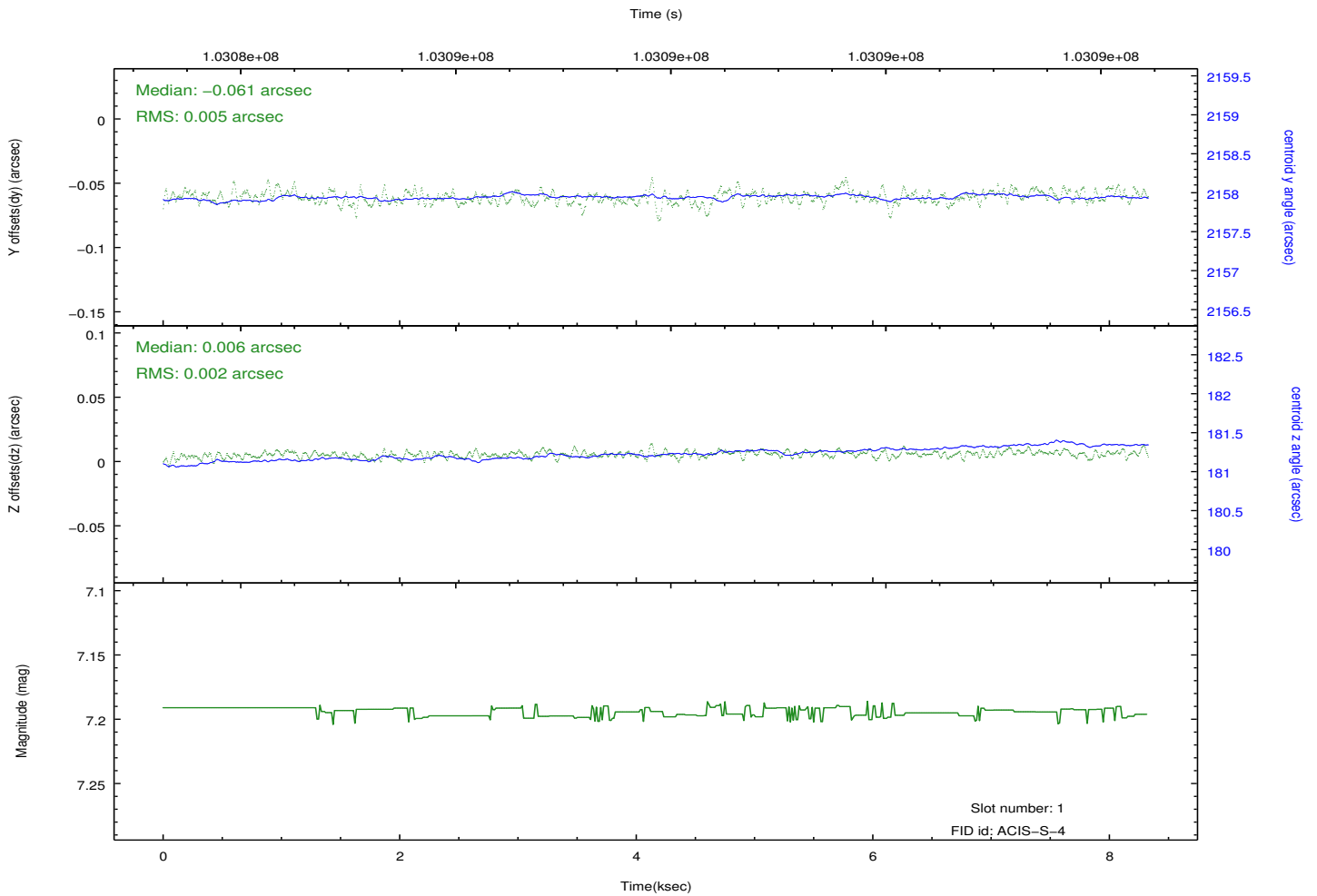
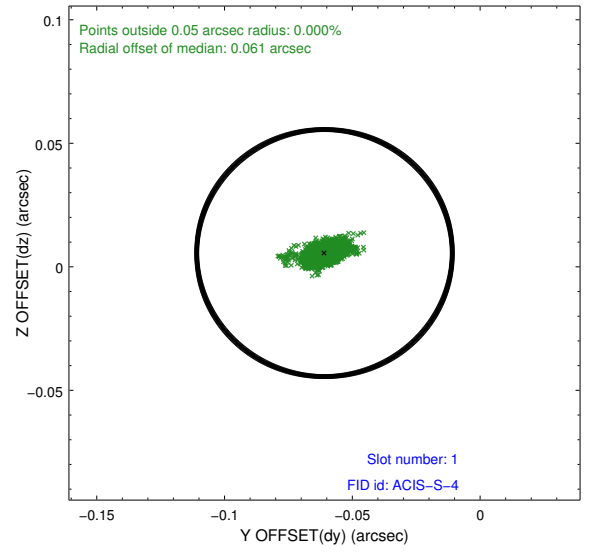
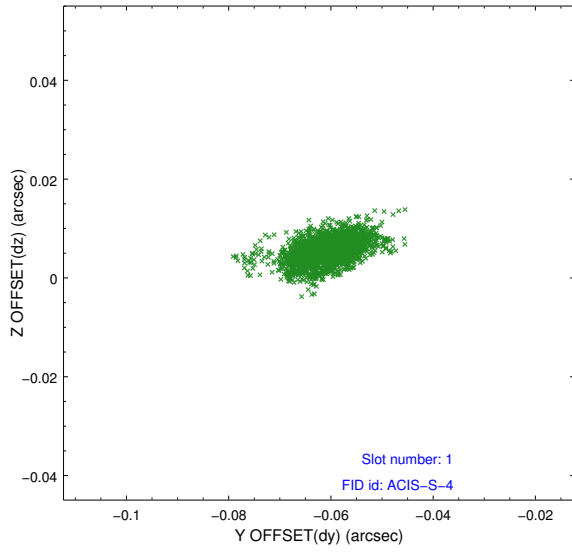


## 2.5 FID Slots

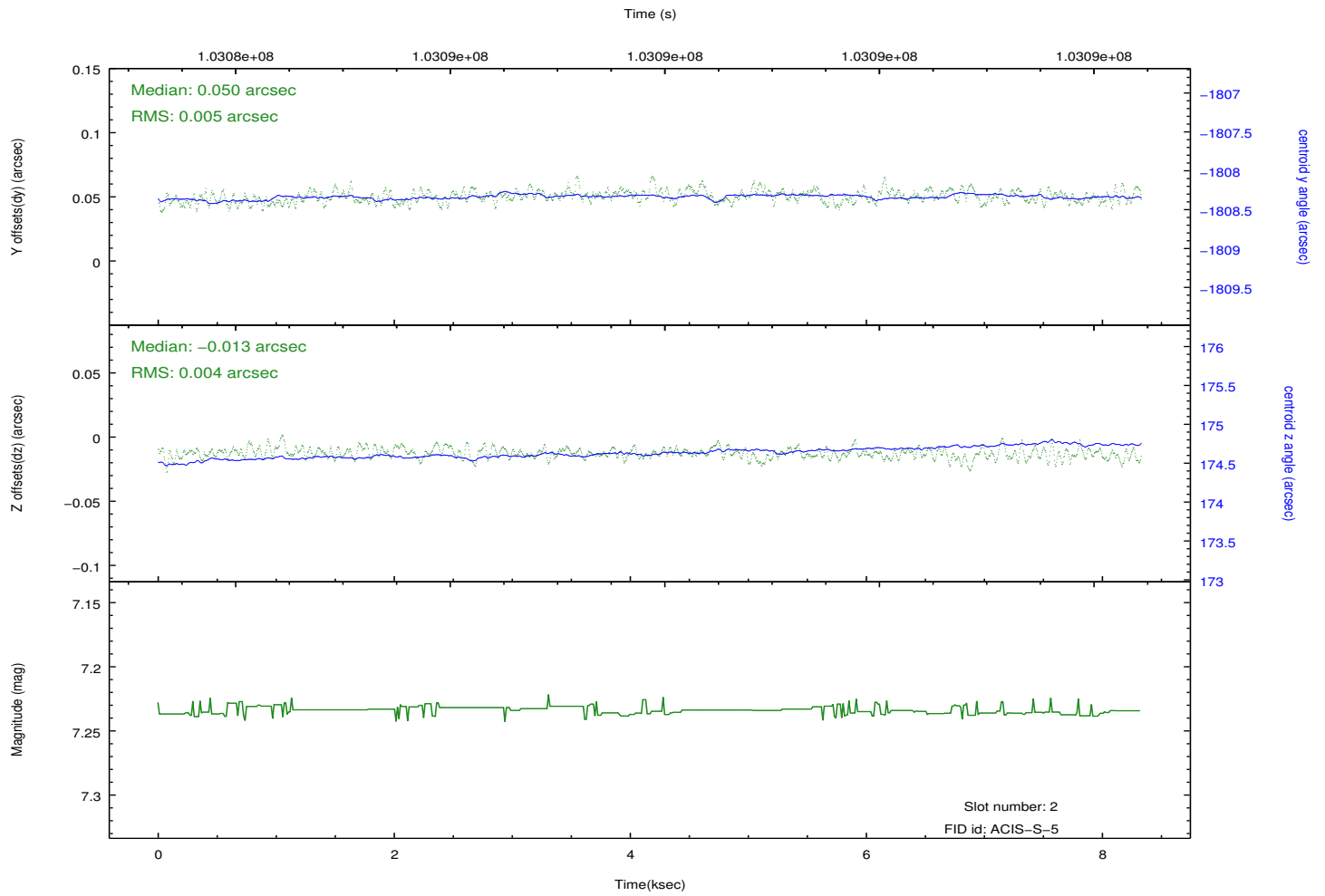
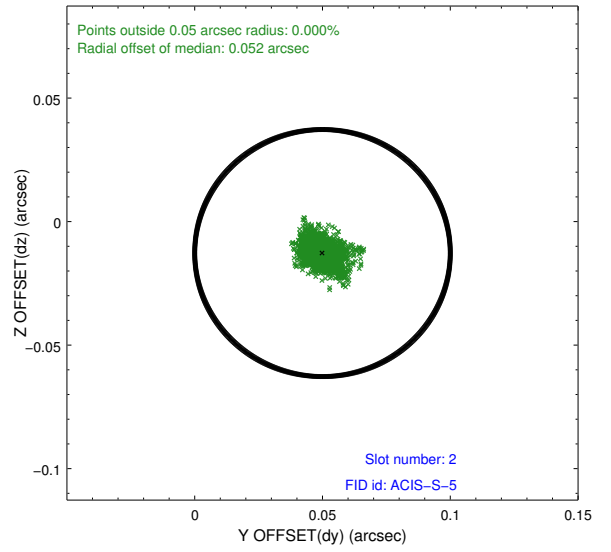
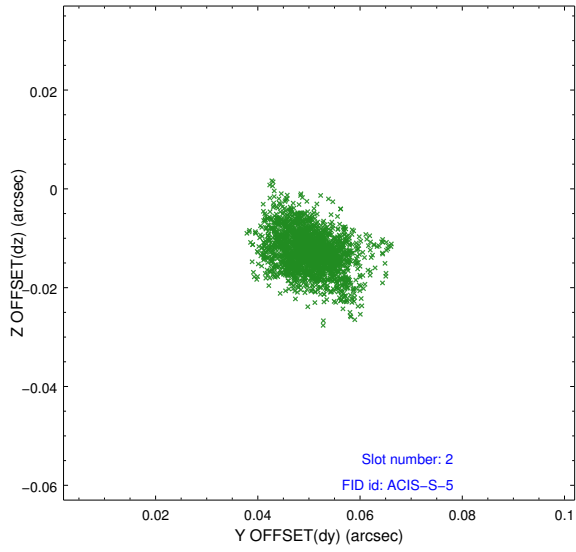
### 2.5.1 Slot 0



## 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)	2012.10.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.48

## A.2 Comments

Roll constraint met.

===

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. Due to a high radiation environment, the instruments were safed and the observation terminated early. This observation has been reprocessed so that the aspect solution correctly handles the instrument safing and maneuver activities at the end of the observation.

===

Charge time for this ObsId remains at previous value of 8.48 ks, although with the current processing the charge time would be 8.265 ks.