

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10275 - L2 Version 2  
Chandra X-Ray Center

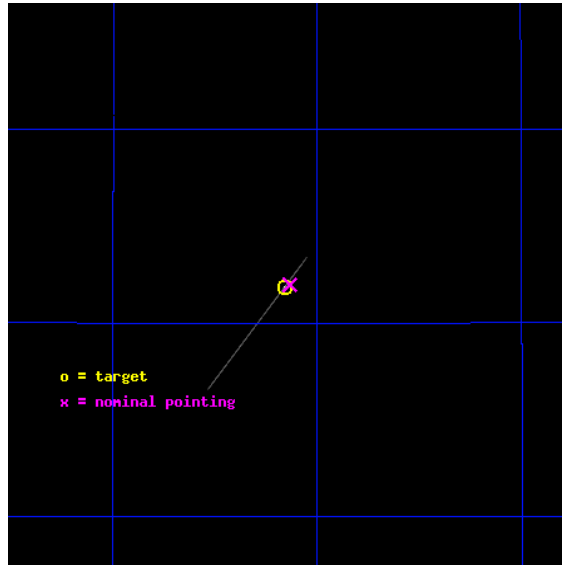
L2 Processing Date : May 30 2012

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# 1 Front

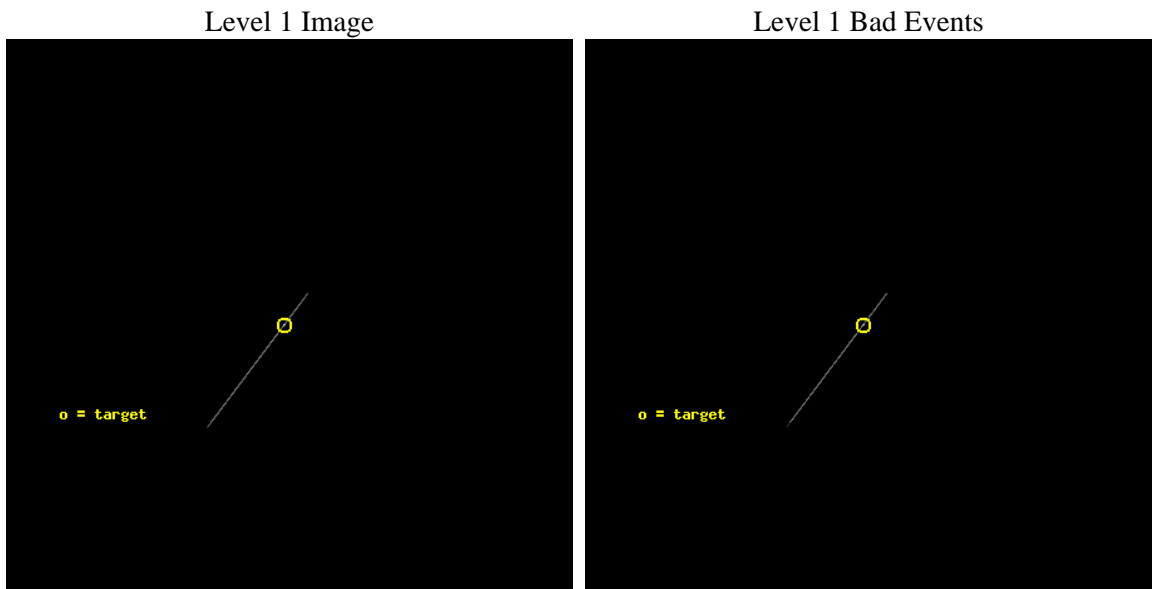
seq_num	701818	Sequence number
obs_id	10275	Observation id
title	The Disk-Jet Connection in Seyfert-1 AGN	Proposal title
observer	Dr Jon Miller	Principal investigator
object	NGC 4051	Source name
ra_targ	180.79	Observer's specified target RA [deg]
dec_targ	44.531333	Observer's specified target Dec [deg]
ra_nom	180.78360803757	Nominal RA [deg]
dec_nom	44.533087027142	Nominal Dec [deg]
roll_nom	127.1611297525	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1071.75	Sum of GTIs [s]
livetime	1067.5634765625	Livetime [s]
ontime7	1071.75	Sum of GTIs [s]
l2events	25334	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1071.75	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	1071.75	Sum of GTIs [s]
date	2012-05-30T23:42:46	Date and time of file creation	l1events	39459	Number of level 1 events
revision	2	Processing version of data			

### 2.1.3 Events

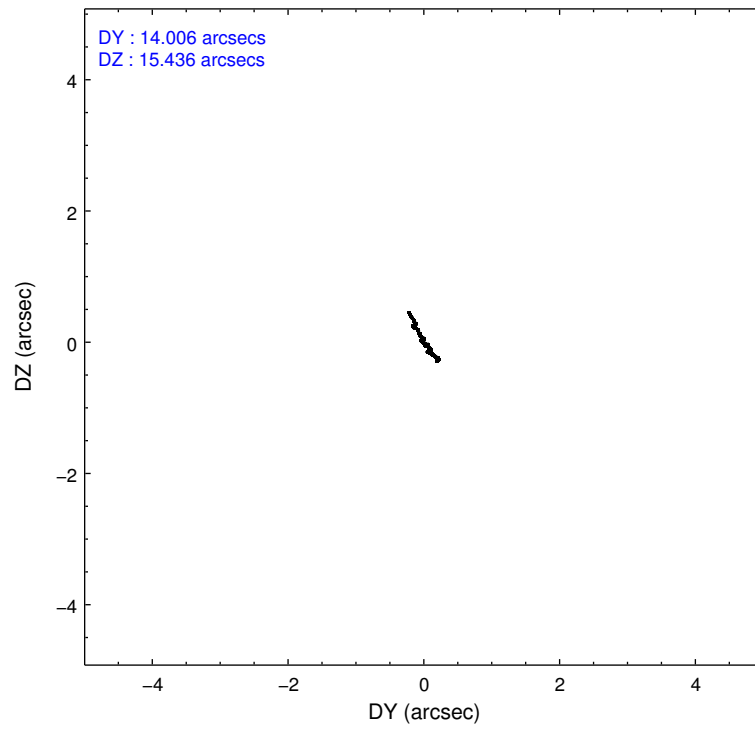
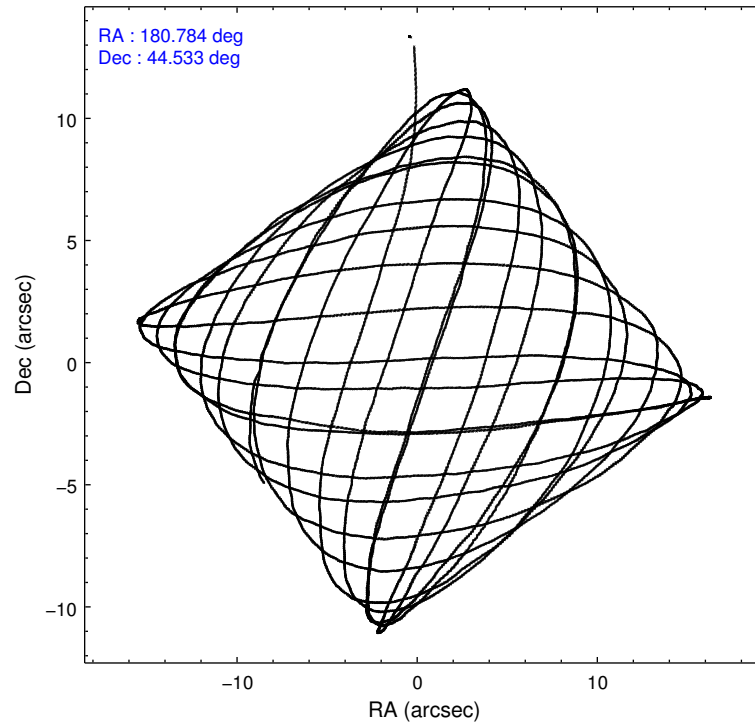
	<b>ccd 7</b>
level 1 events	39459
rejected events	13795
rejected %	<b>34%</b>

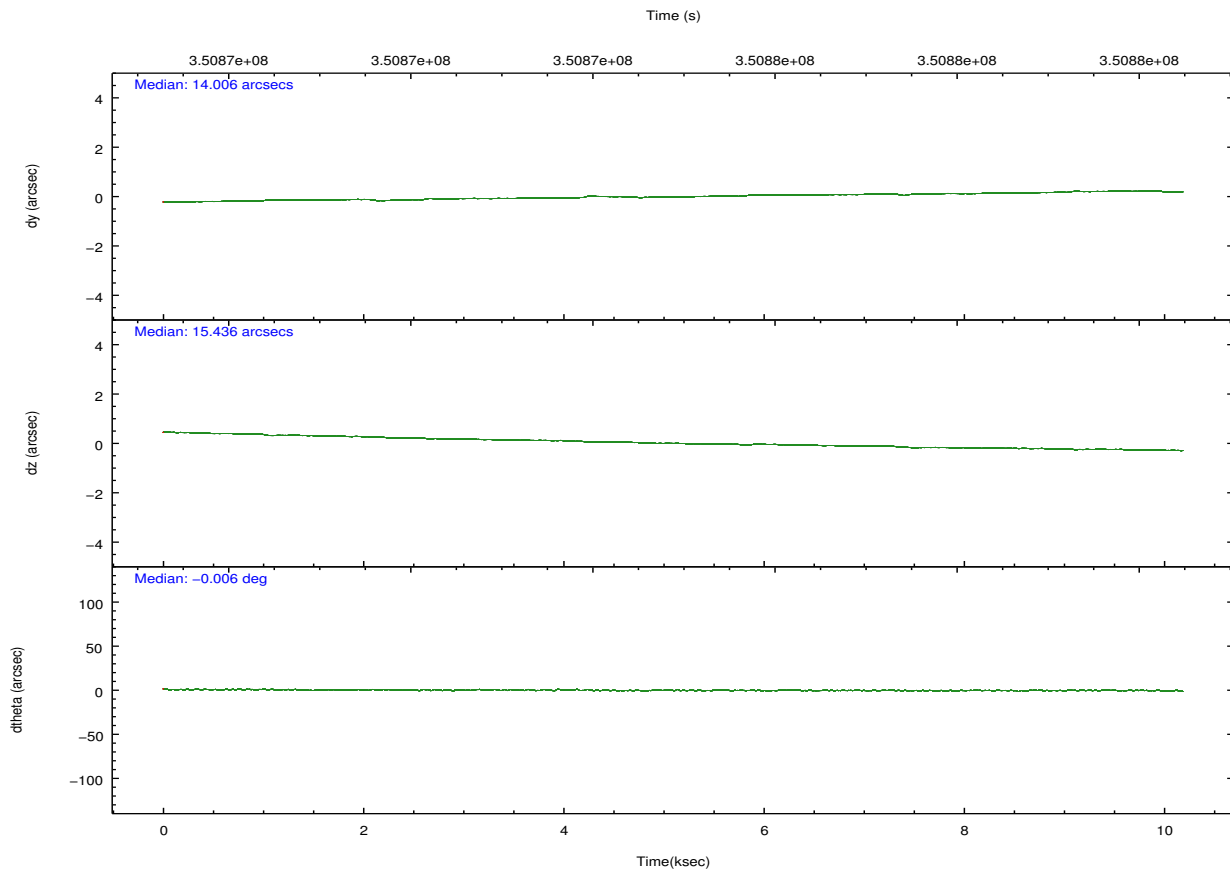
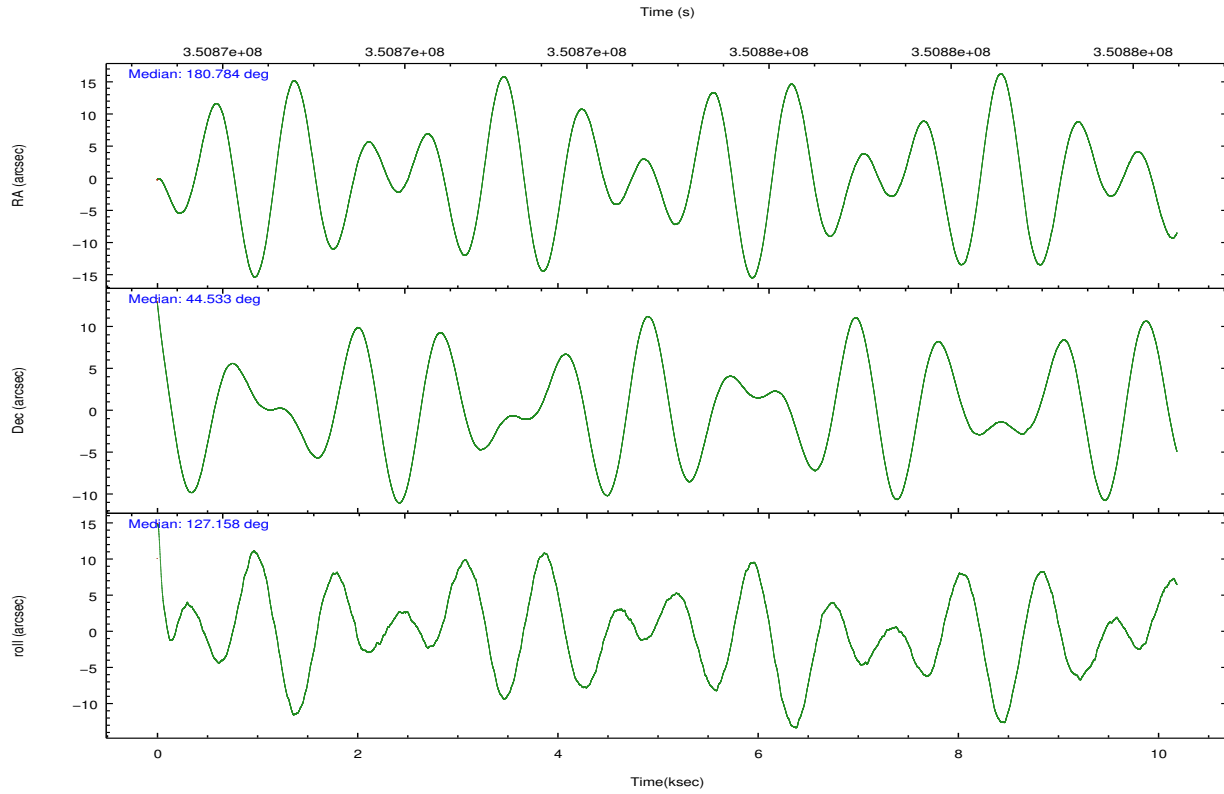
	<b>ccd 7</b>
grade 0 events	9060
	22%
grade 1 events	216
	0%
grade 2 events	10037
	25%
grade 3 events	2601
	6%
grade 4 events	2645
	6%
grade 5 events	2722
	6%
grade 6 events	12178
	30%
grade 7 events	0
	0%

## 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	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	180.819205	180.7836080375652	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.522817	44.5330870271421	Alternating exposures requested	N	N
[deg] Pointing Roll	126.979521	127.1611297525048	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	350869976.184000	350868593.19406			
Observation start date	2009-02-12T23:51:50	2009-02-12T23:29:53			
[s] Observation end time (MET)	350879976.184000	350880767.63217			
Observation end date	2009-02-13T02:38:30	2009-02-13T02:52:47			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect





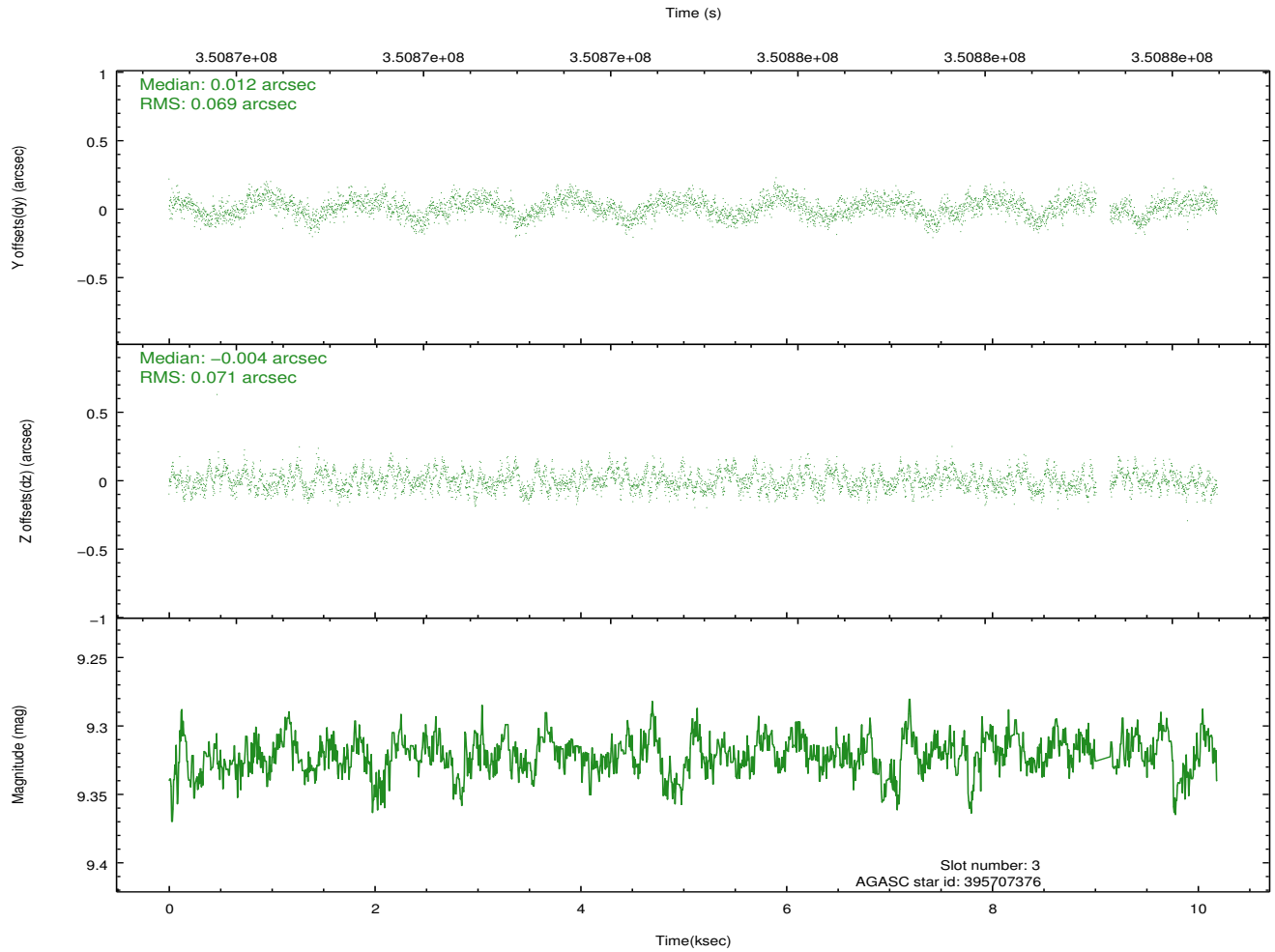
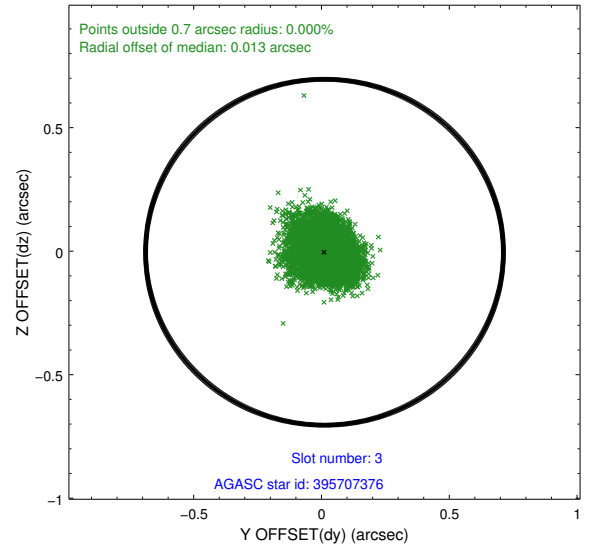
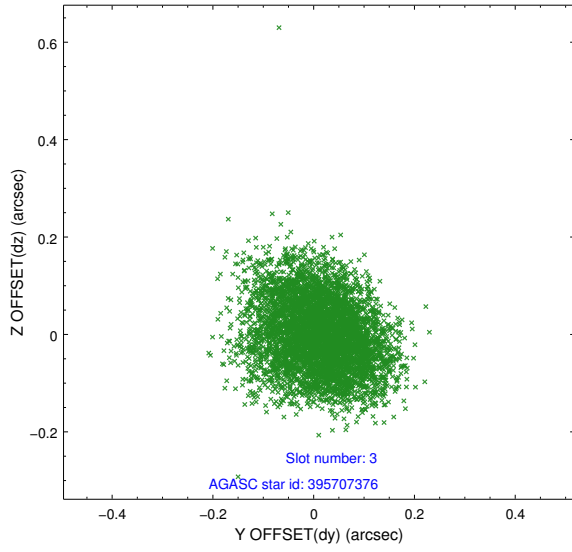
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.00	2484	0.071	-0.062	0.016	0.024	0.000000	0.000000	929.17	-1732.55
1	FID	ACIS-S-5	7.03	2485	-0.151	0.035	0.007	0.012	0.000000	0.000000	-1819.77	164.55
2	FID	ACIS-S-6	7.14	2485	0.060	0.039	0.011	0.018	0.000000	0.000000	394.13	809.11
3	GUIDE	395707376	9.32	4904	0.012	-0.004	0.106	0.166	180.967983	44.858789	738.18	-1030.70
4	GUIDE	395708616	7.98	4967	-0.118	0.001	0.082	0.123	180.101872	44.630343	1421.28	1230.25
5	GUIDE	395708696	8.86	4965	0.112	-0.037	0.080	0.128	180.383726	44.624291	965.92	670.16
6	GUIDE	395709608	8.37	4970	0.004	0.010	0.074	0.118	181.055130	44.450389	-571.92	-327.83
7	GUIDE	395710032	8.79	4963	-0.007	0.028	0.074	0.118	181.512910	44.376001	-1489.81	-1112.61

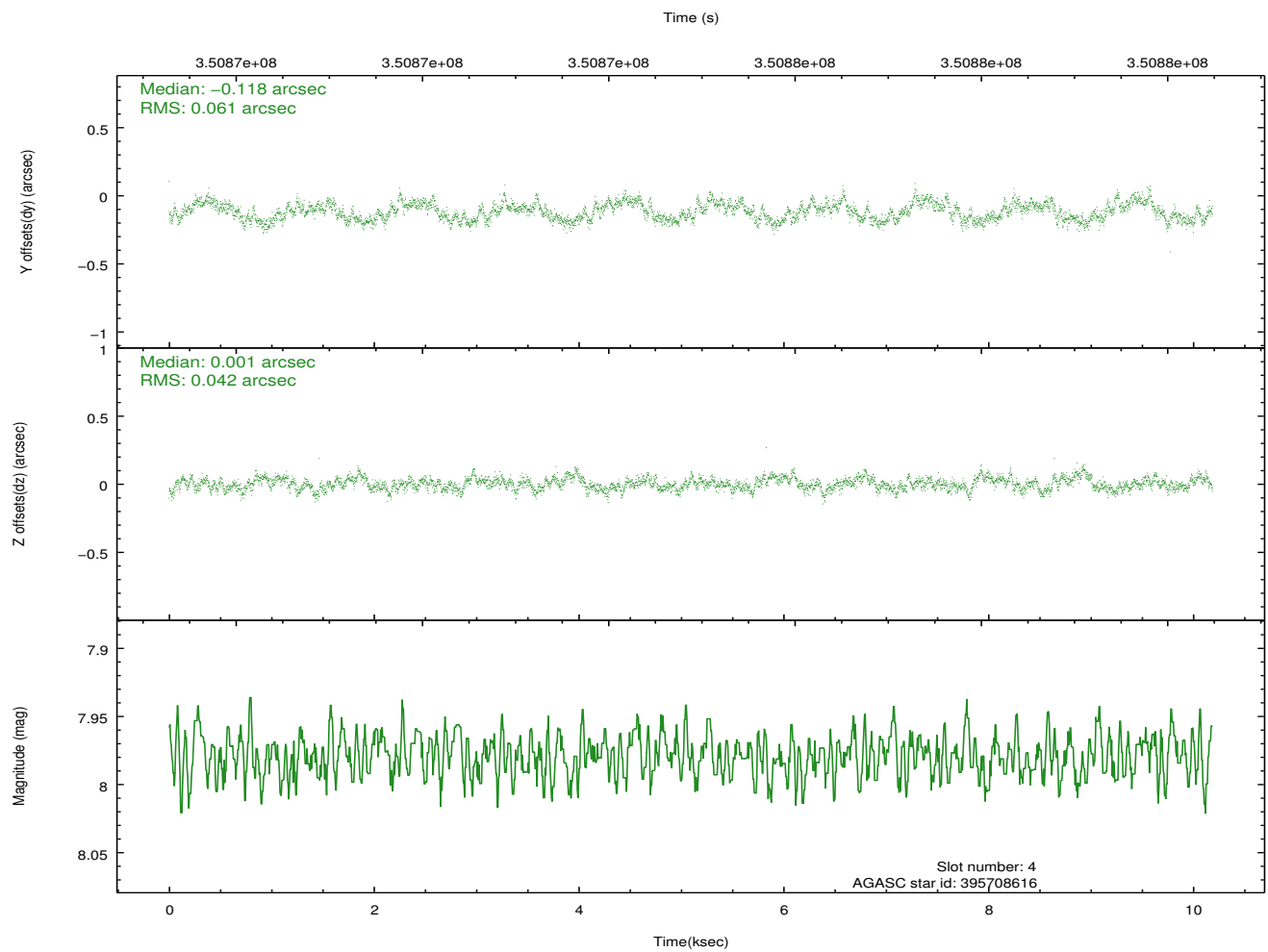
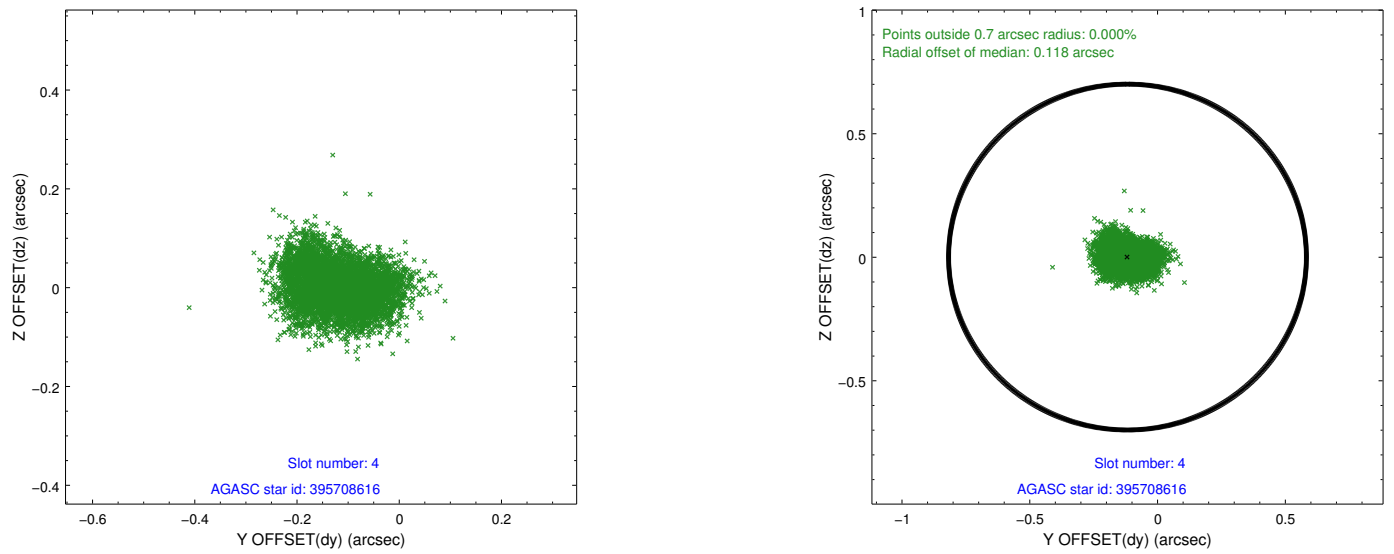
∞

## 2.4 Star Slots

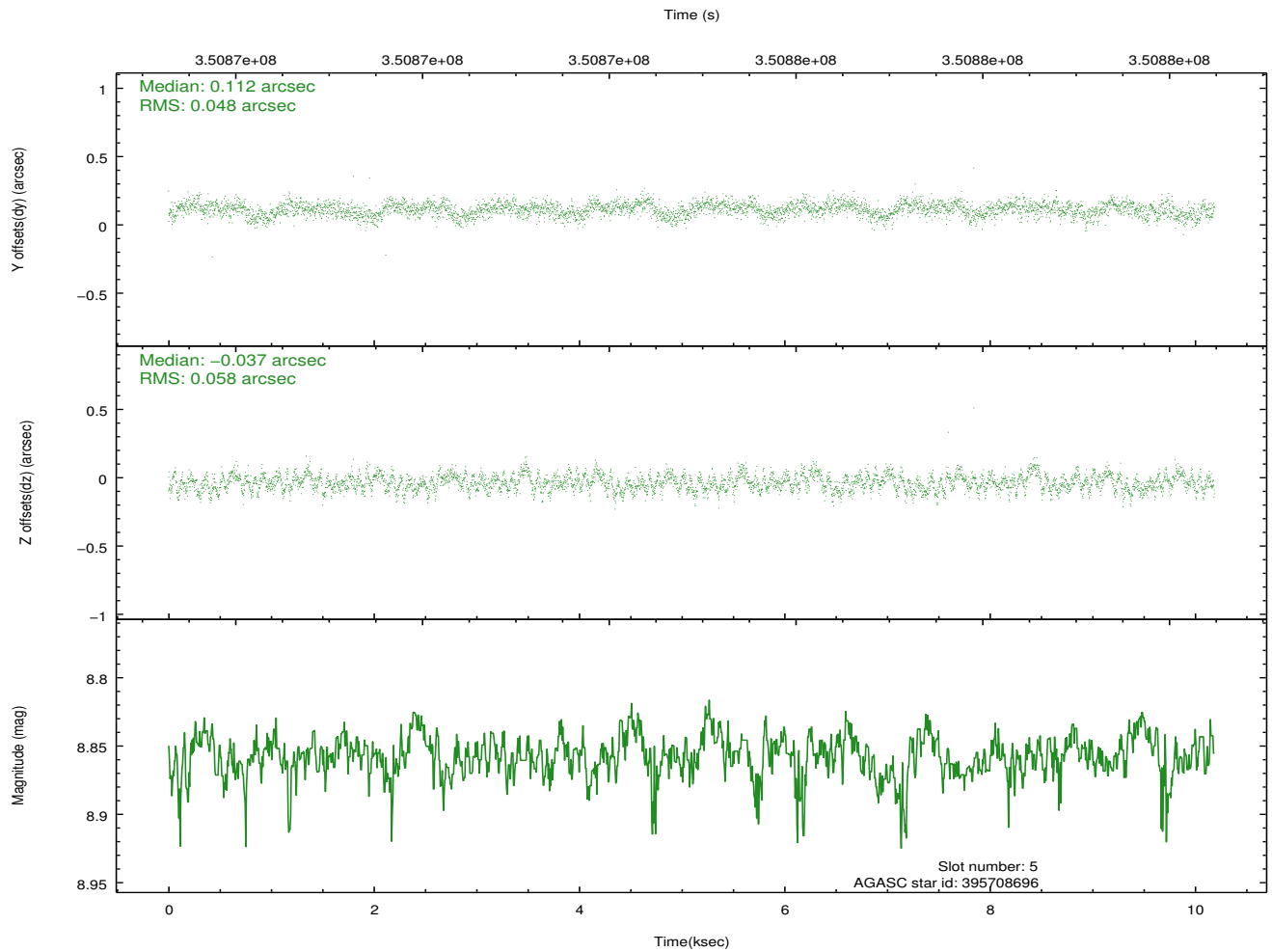
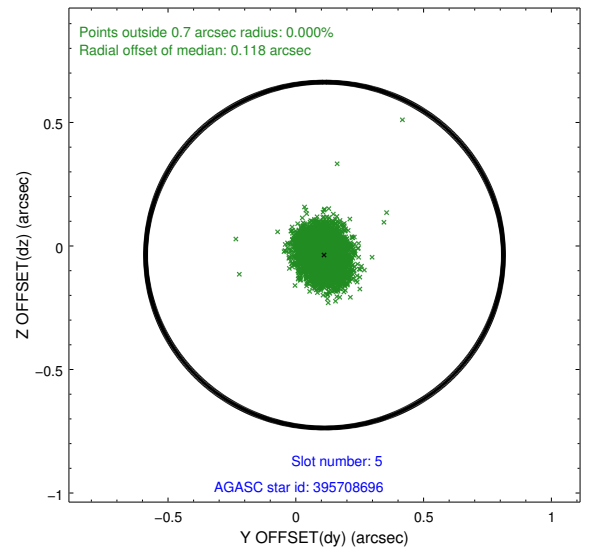
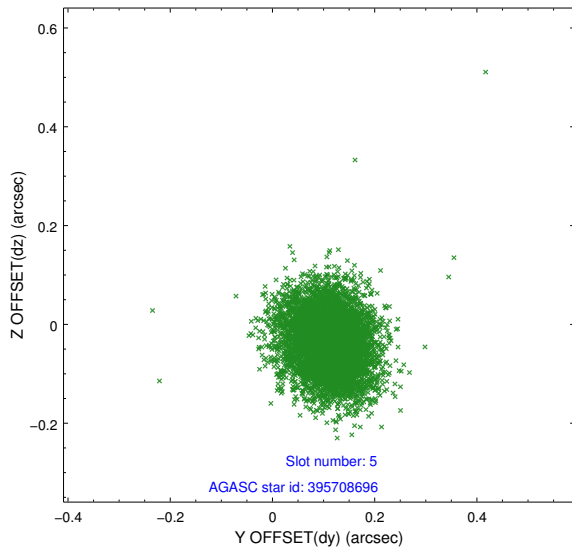
### 2.4.1 Slot 3



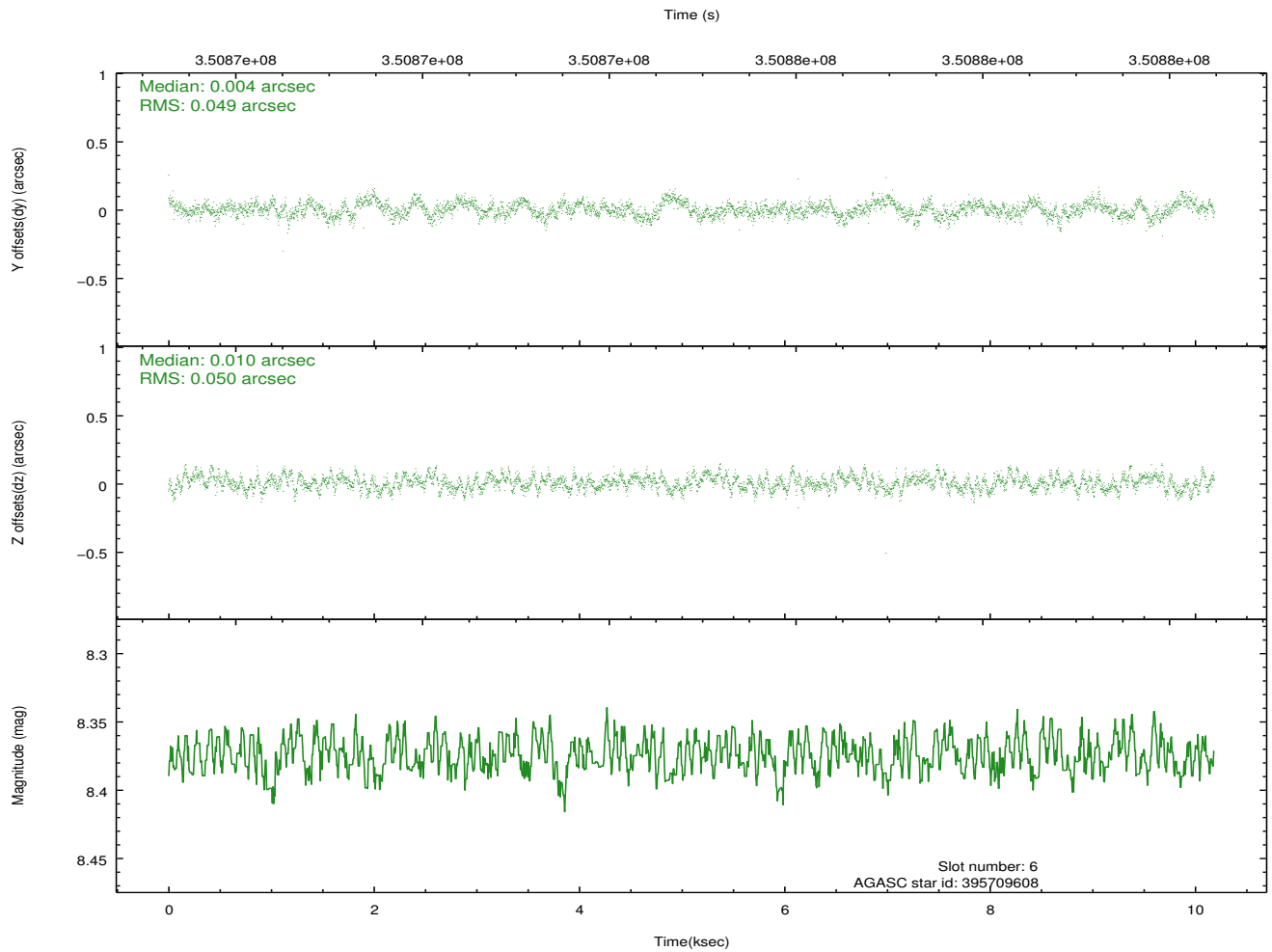
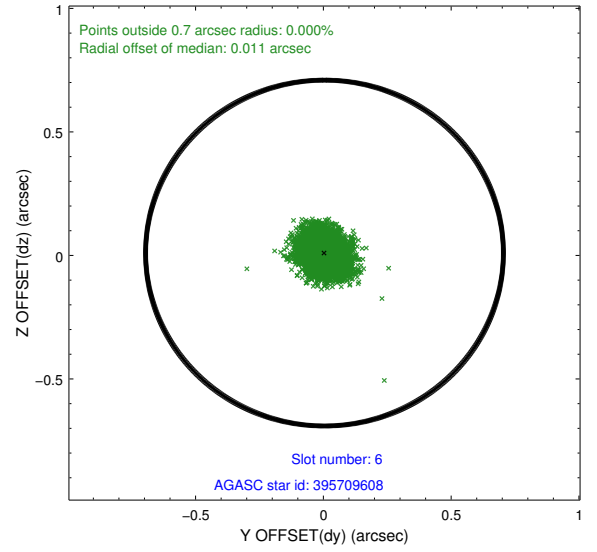
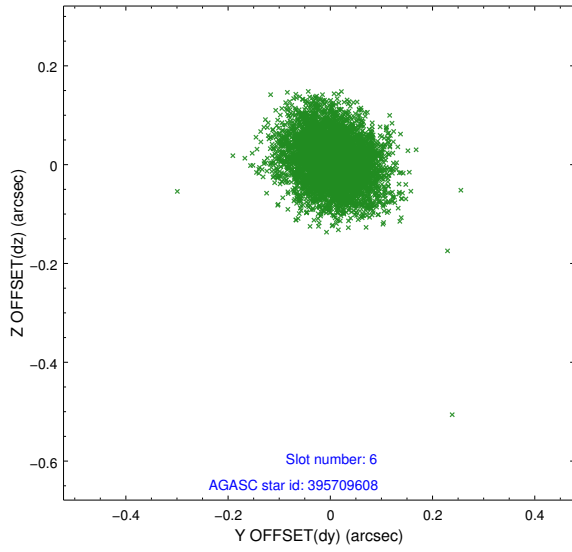
## 2.4.2 Slot 4



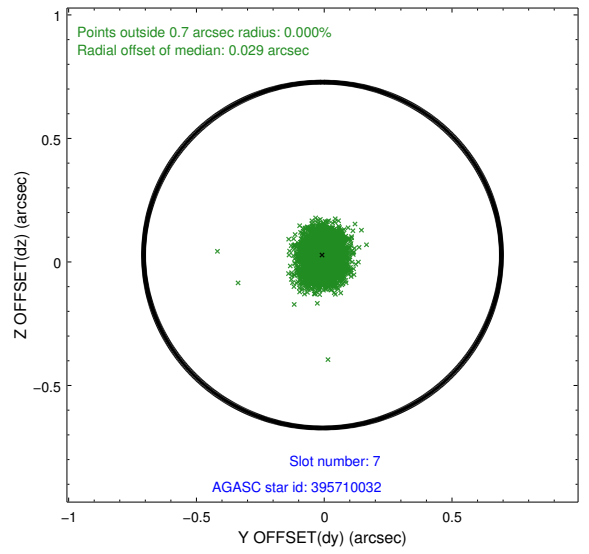
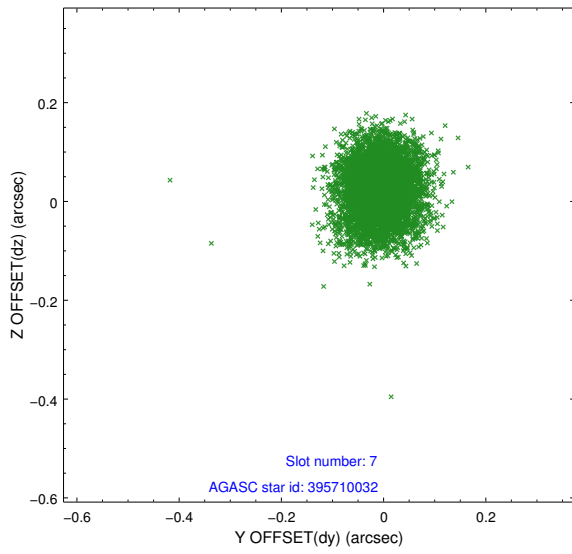
### 2.4.3 Slot 5



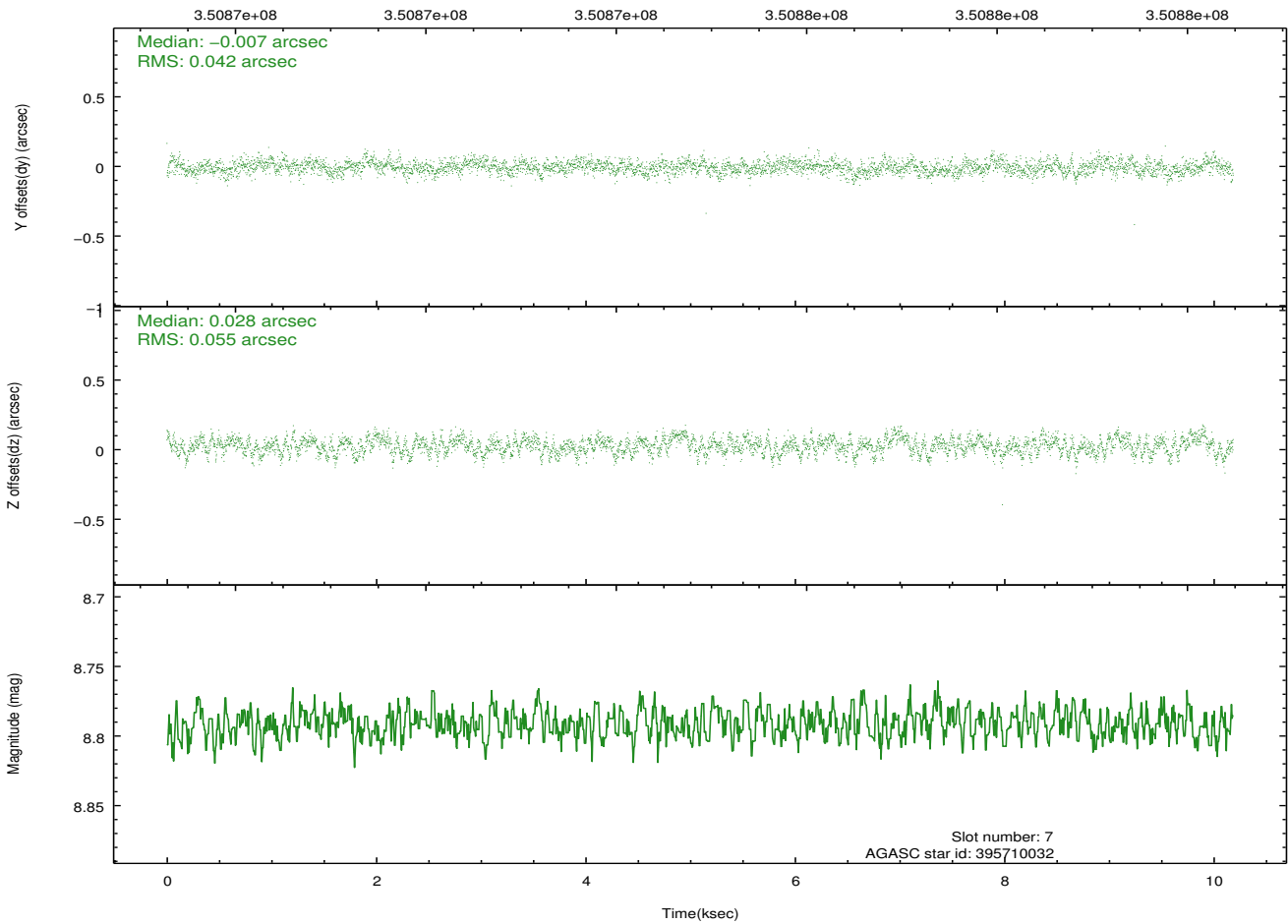
### 2.4.4 Slot 6



### 2.4.5 Slot 7

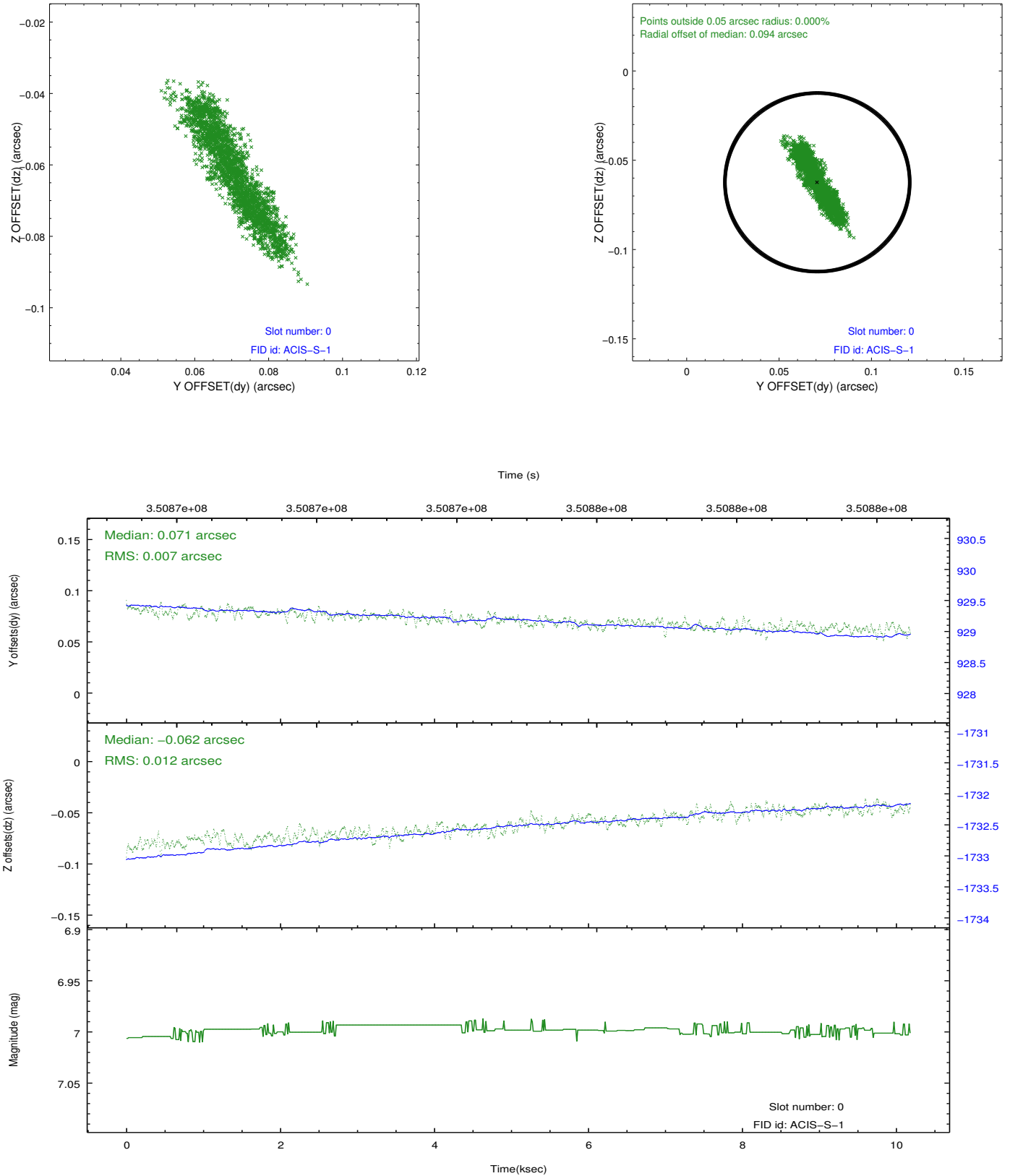


Time (s)

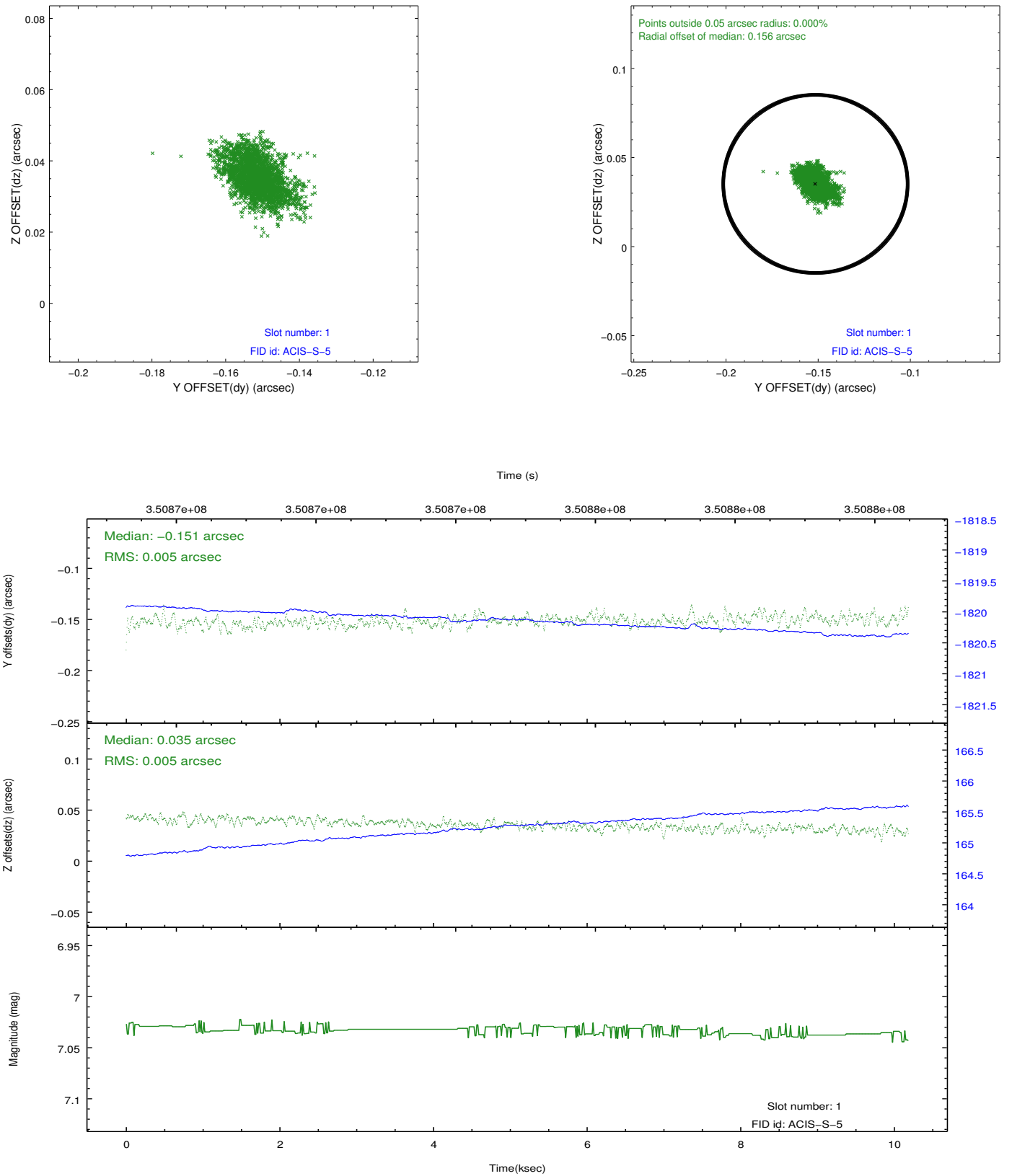


## 2.5 FID Slots

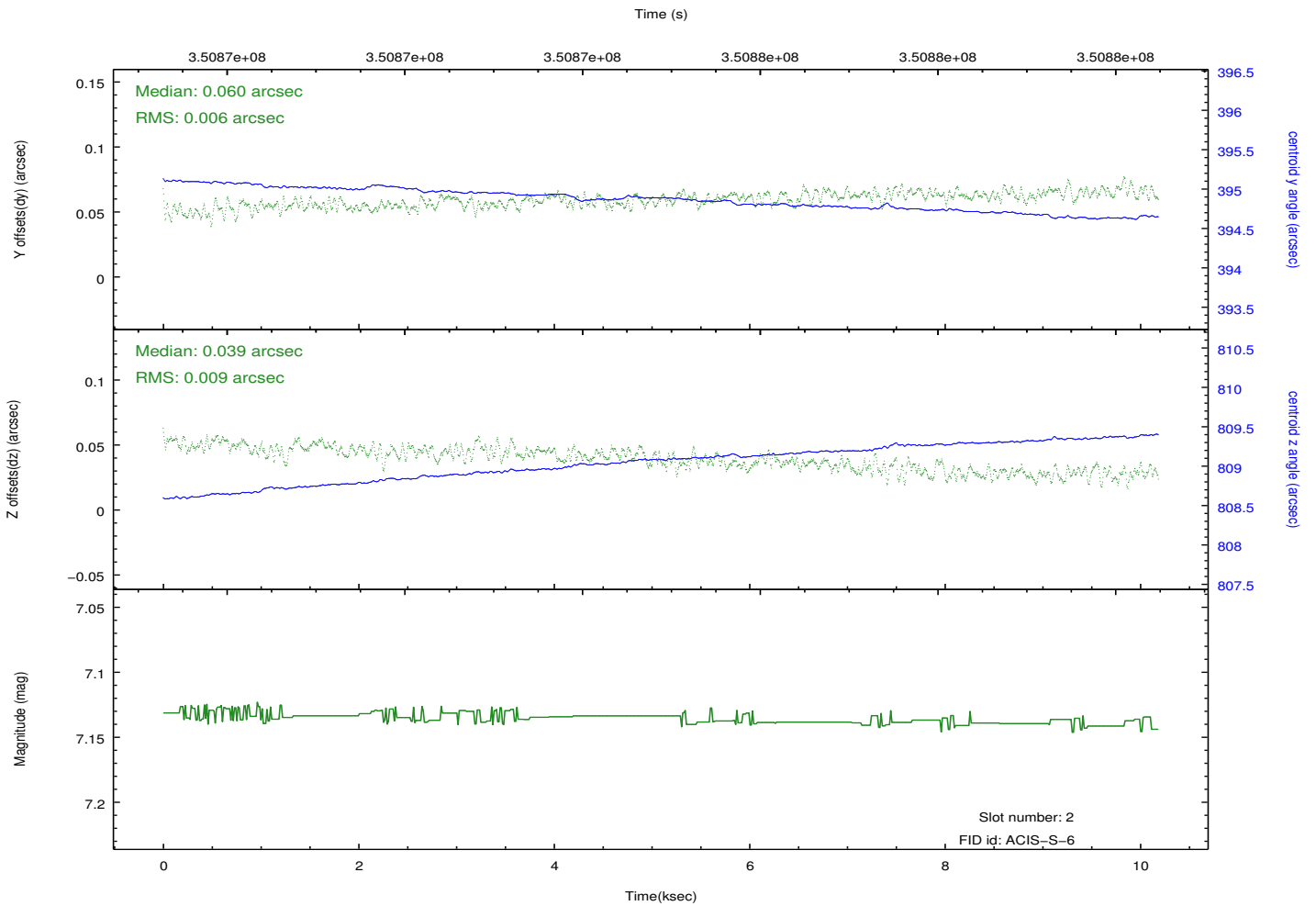
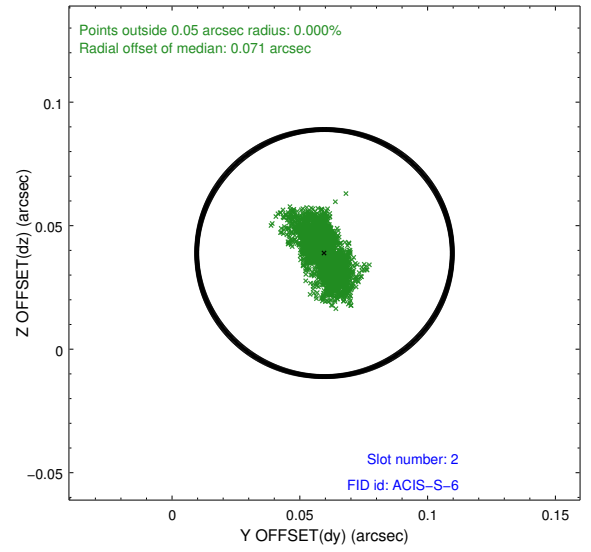
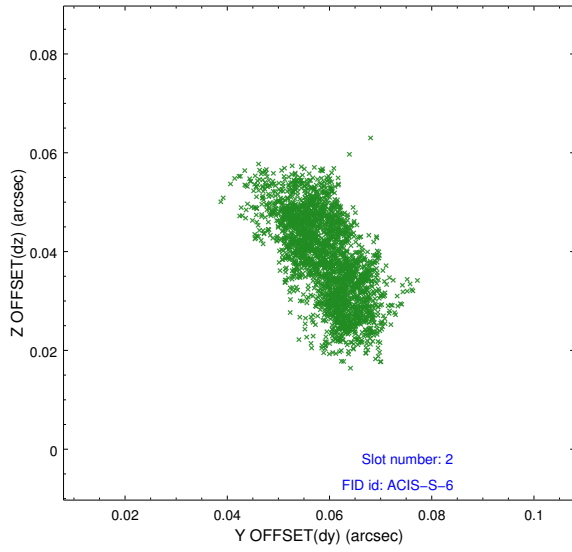
### 2.5.1 Slot 0



## 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)	2012.05.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.07175

## A.2 Comments

Joint proposal with VLA.=====Charge time: ONTIME of 1071.75 seconds is less than 85% of expected scheduled time of 10 ksec.

===== The ACIS instrument unexpectedly stopped collecting data during this observation at 2/23/09, 00:07. While the observation did not receive as much time as originally planned, the data that were collected are of good quality and appropriate for scientific analysis.