

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12305 - L2 Version 2
Chandra X-Ray Center

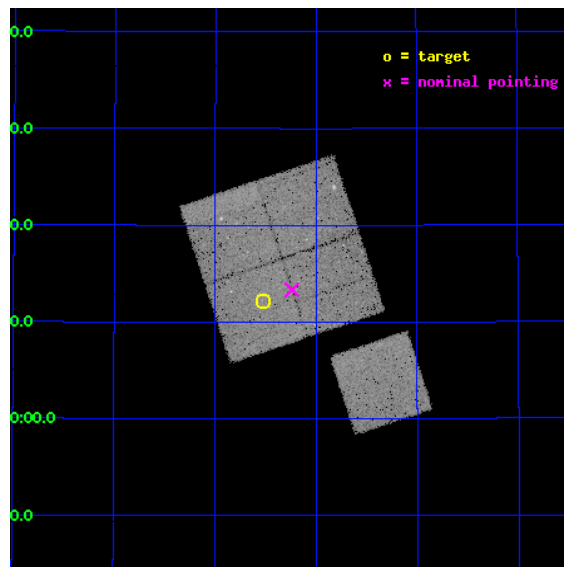
L2 Processing Date : Feb 2 2012

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1 Front

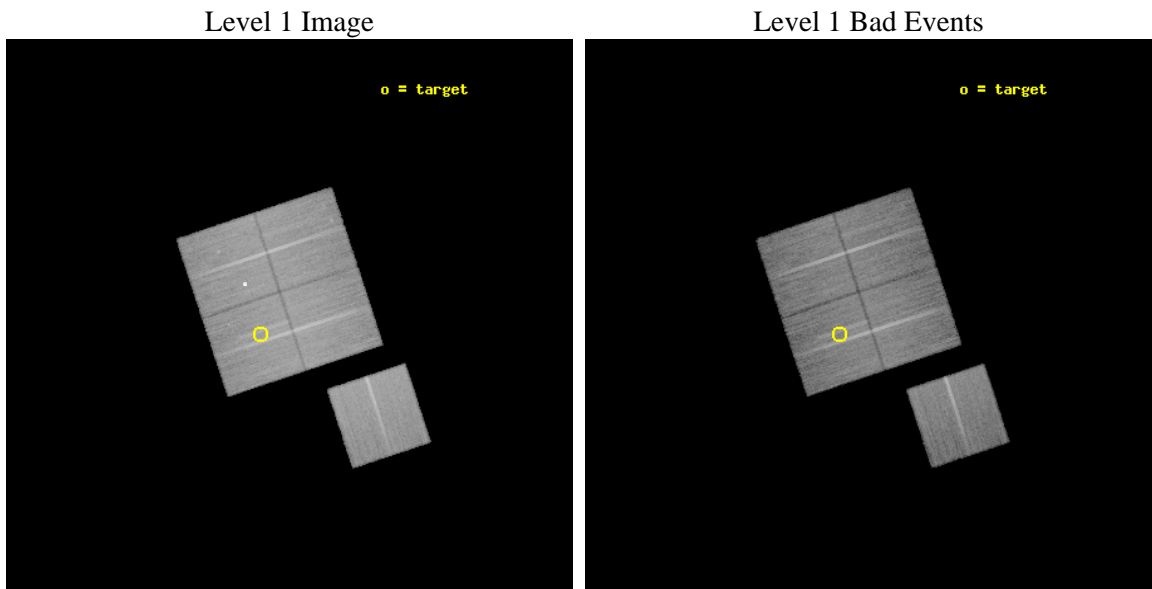
seq_num	801010	Sequence number
obs_id	12305	Observation id
title	The X-ray Properties of Weak-Lensing Selected Galaxy Clusters	Prop
observer	MR Paul Giles	Principal investigator
object	SLJ0850.5+4512	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	132.632083	Observer's specified target RA [deg]
dec_targ	45.203333	Observer's specified target Dec [deg]
ra_nom	132.55964848016	Nominal RA [deg]
dec_nom	45.222258883816	Nominal Dec [deg]
roll_nom	161.71381655603	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29050.059193075	Sum of GTIs [s]
livetime	28670.498783375	Livetime [s]
ontime0	29037.495061815	Sum of GTIs [s]
ontime1	29043.777122378	Sum of GTIs [s]
ontime2	29050.059193075	Sum of GTIs [s]
ontime3	29050.059193075	Sum of GTIs [s]
ontime6	29050.059193194	Sum of GTIs [s]
l2events	98260	Number of level 2 events



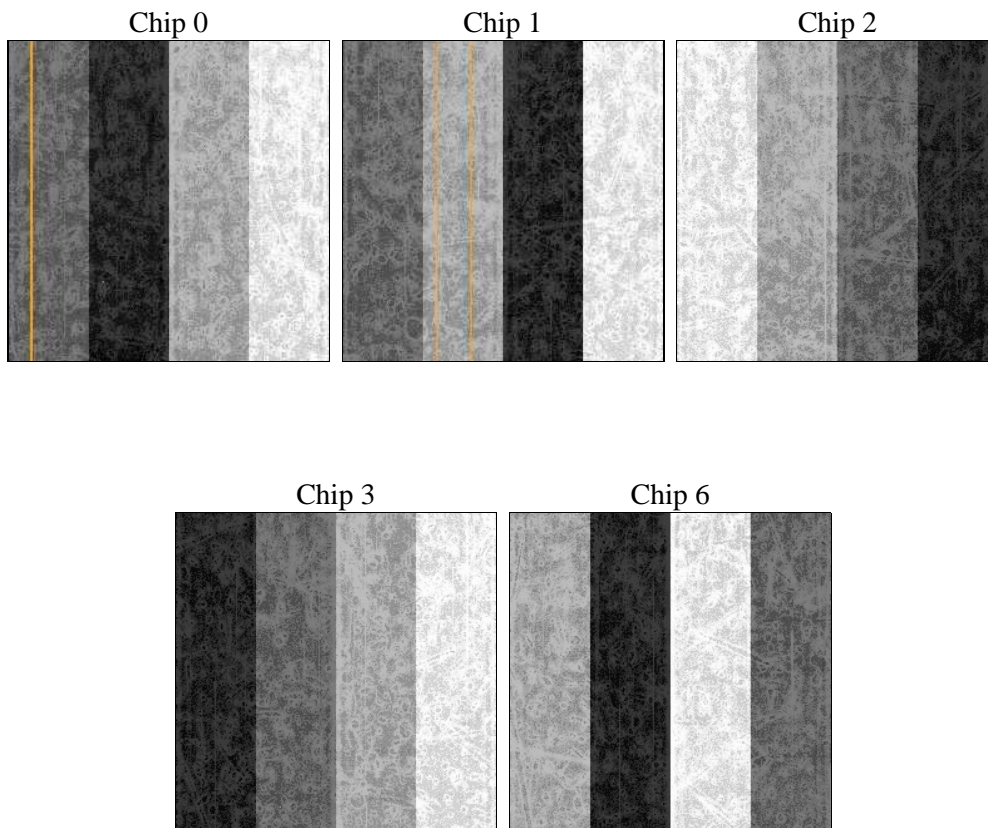
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	29050.059193075	Sum of GTIs [s]
caldbver	4.4.7	 	ontime0	29037.495061815	Sum of GTIs [s]
date	2012-02-02T23:15:54	Date and time of file creation	ontime1	29043.777122378	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	29050.059193075	Sum of GTIs [s]
			ontime3	29050.059193075	Sum of GTIs [s]
			ontime6	29050.059193194	Sum of GTIs [s]
			l1events	1025877	Number of level 1 events

2.1.4 Events

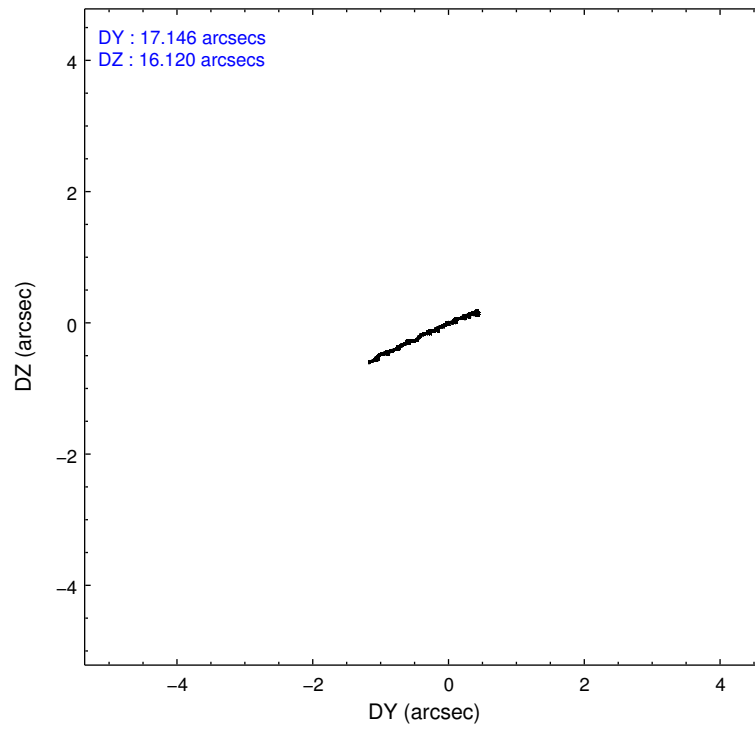
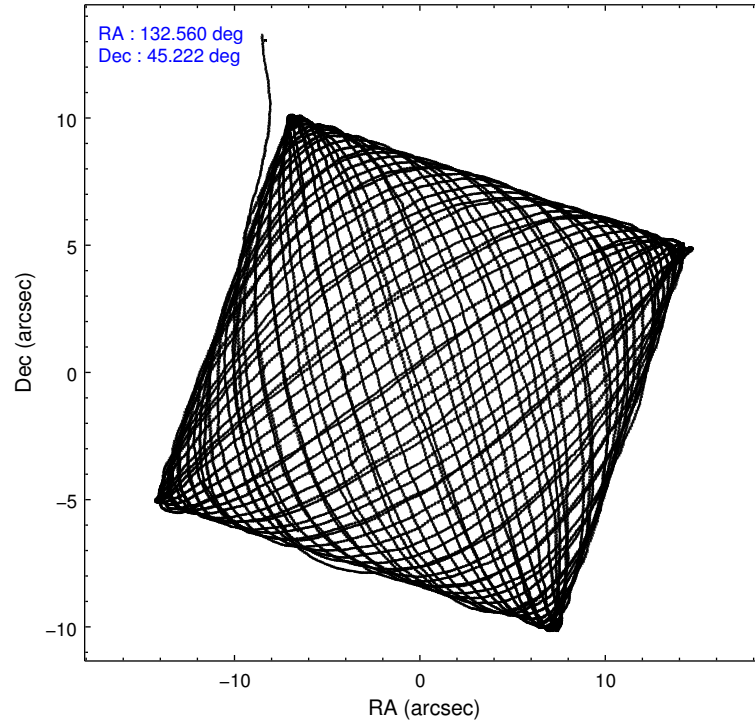
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	195038	210157	211456	203894	205332
rejected events	171634	175673	189096	181526	182206
rejected %	88%	83%	89%	89%	88%

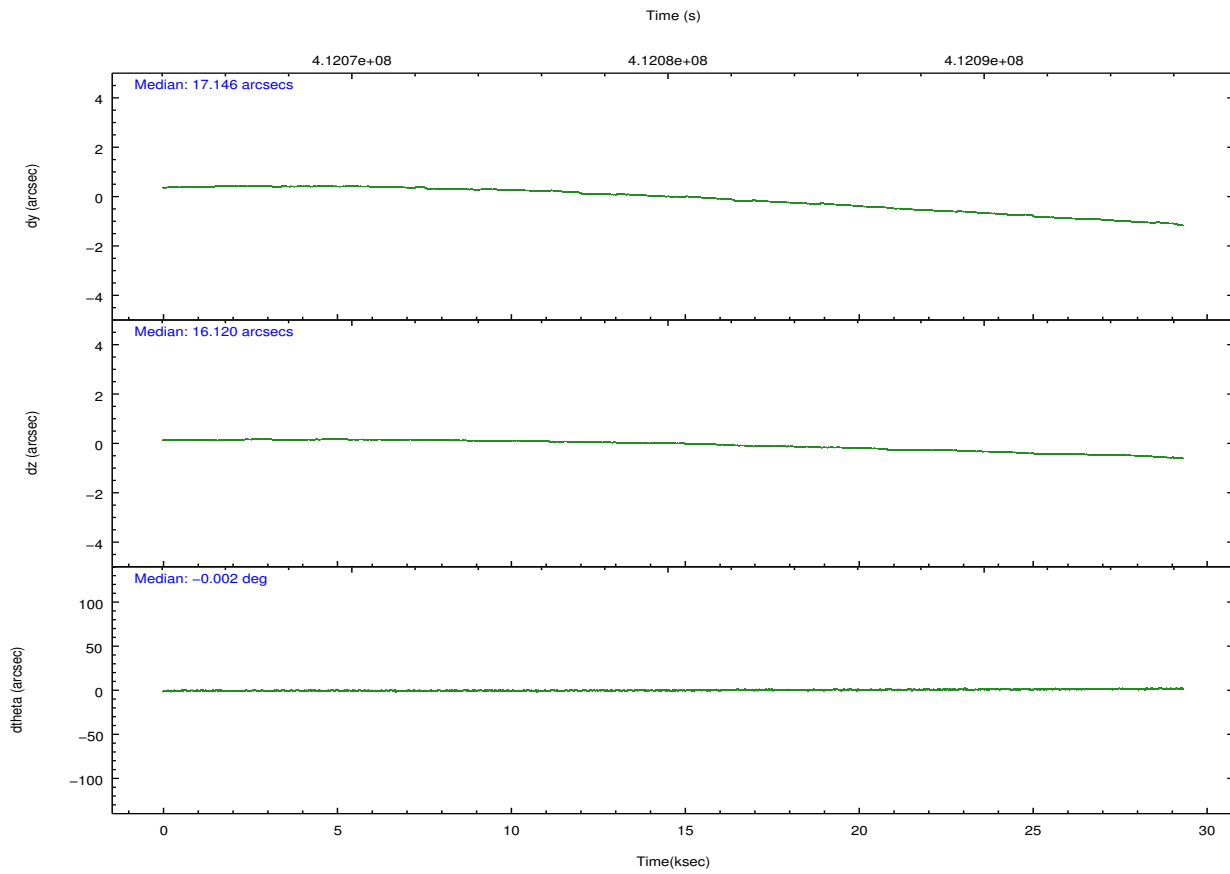
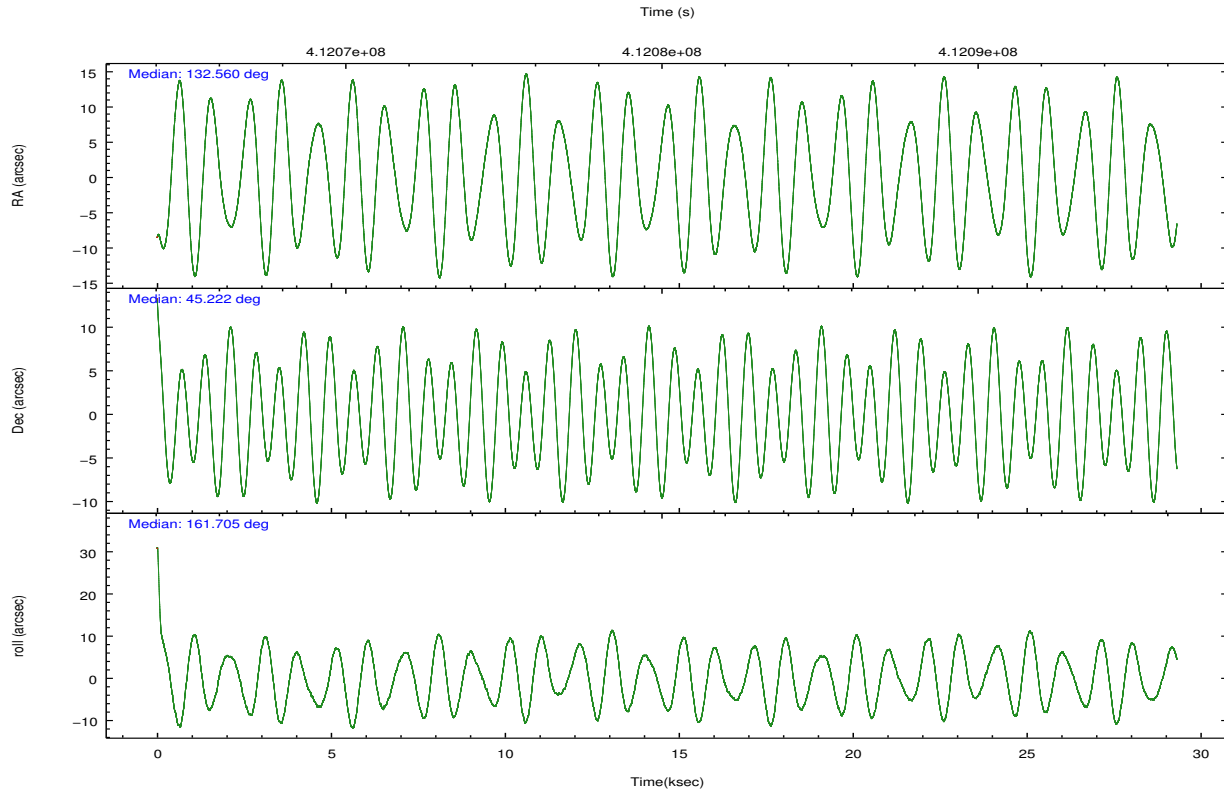
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8232	18017	8111	7922	8059
	4%	8%	3%	3%	3%
grade 1 events	127	133	127	108	98
	0%	0%	0%	0%	0%
grade 2 events	5696	6053	5337	4965	5116
	2%	2%	2%	2%	2%
grade 3 events	2489	2606	2251	2408	2367
	1%	1%	1%	1%	1%
grade 4 events	2358	2557	2413	2373	2386
	1%	1%	1%	1%	1%
grade 5 events	8822	9423	8449	9895	9535
	4%	4%	3%	4%	4%
grade 6 events	4632	5254	4251	4702	5201
	2%	2%	2%	2%	2%
grade 7 events	162682	166114	180517	171521	172570
	83%	79%	85%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	132.597874	132.5596484801594	Subarray requested	NONE	NONE
[deg] Pointing Dec	45.227933	45.22225888381619	Alternating exposures requested	N	N
[deg] Pointing Roll	161.477988	161.7138165560303	[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	-225.792463	-225.7880283953896			
[mm] SIM translation stage offset	-7.8	-7.804424607540113			
[s] Observation start time (MET)	412065809.184000	412064817.55504			
Observation start date	2011-01-22T06:42:23	2011-01-22T06:26:57			
[s] Observation end time (MET)	412094809.184000	412095611.63163			
Observation end date	2011-01-22T14:45:43	2011-01-22T15:00:11			
Read mode	TIMED	TIMED			

2.3 Aspect



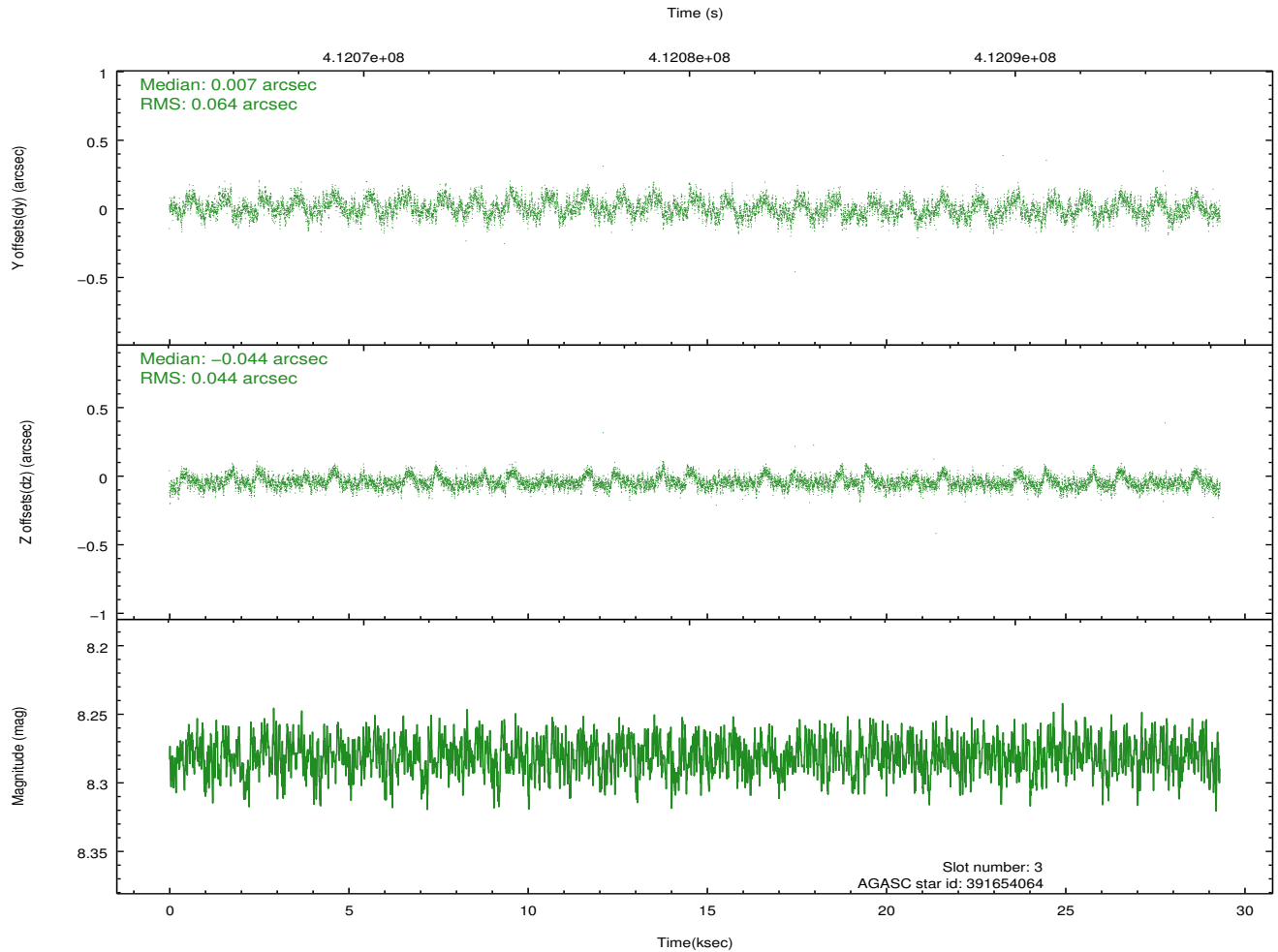
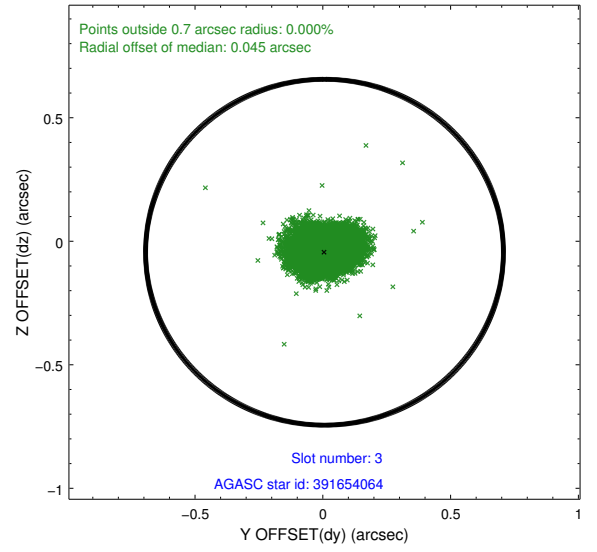
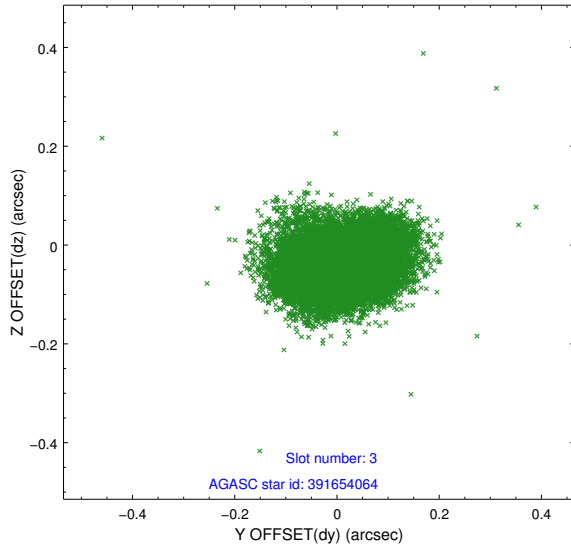


Slot Statistics

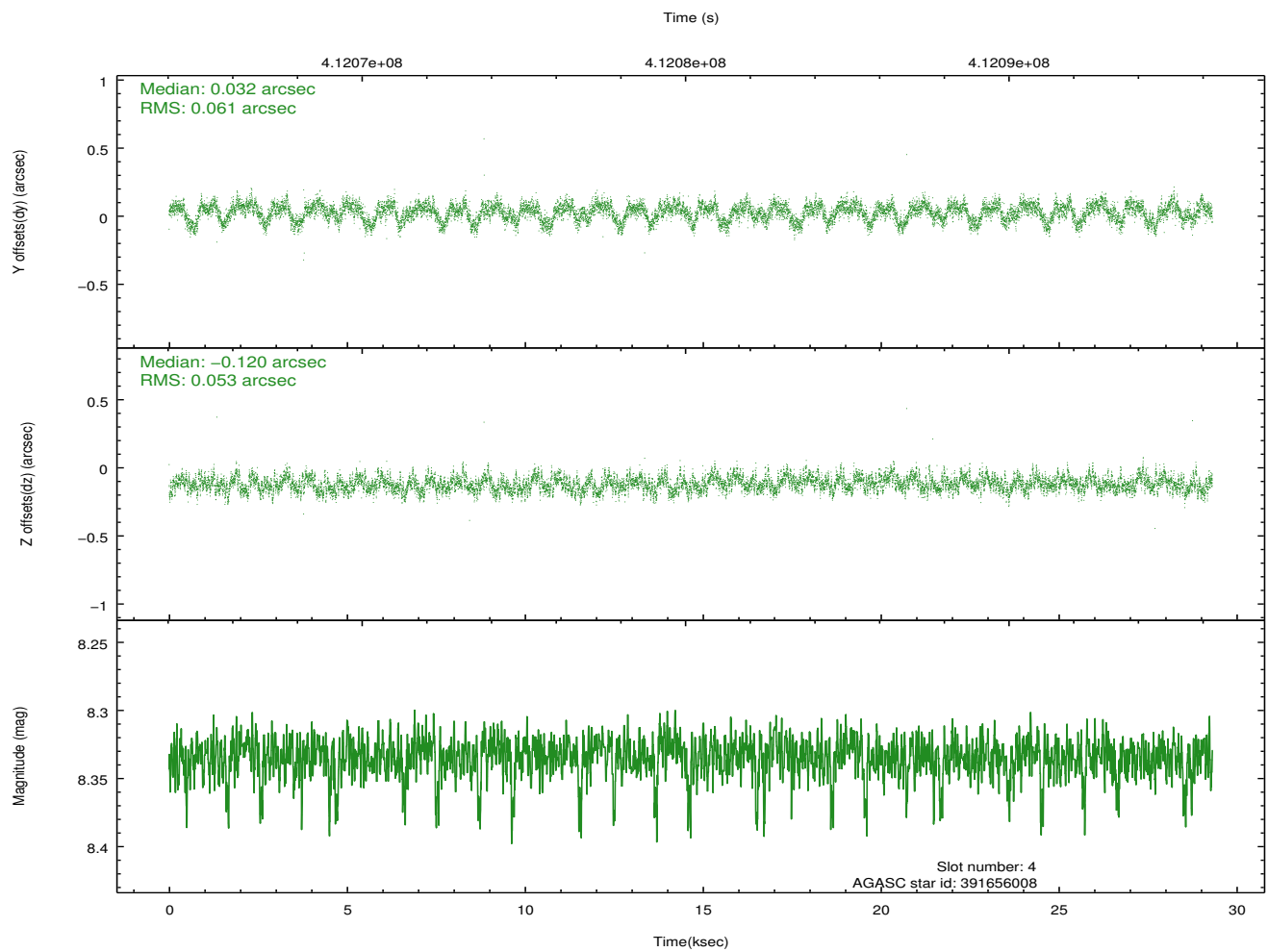
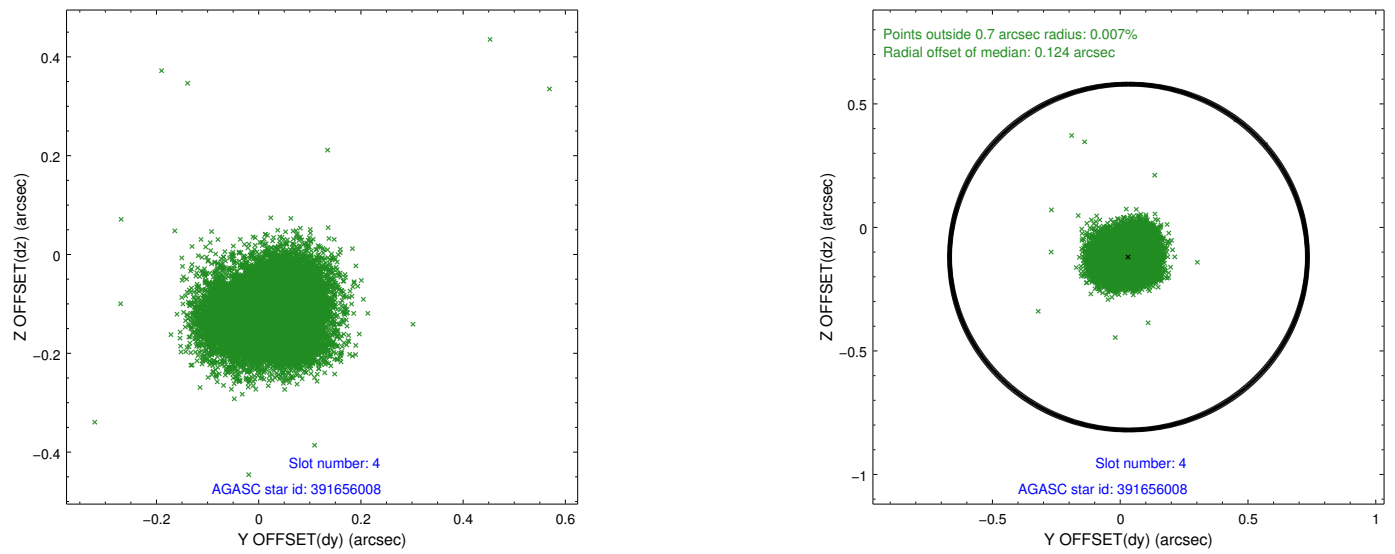
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	7151	0.159	-0.113	0.010	0.016	0.000000	0.000000	922.41	-999.98
1	FID	ACIS-I-5	7.10	7150	-0.277	0.137	0.007	0.012	0.000000	0.000000	-1826.11	897.67
2	FID	ACIS-I-6	7.11	7151	0.027	0.047	0.009	0.014	0.000000	0.000000	387.71	1542.20
3	GUIDE	391654064	8.28	14296	0.007	-0.044	0.082	0.134	133.090807	44.897628	-1568.13	724.89
4	GUIDE	391656008	8.33	14295	0.032	-0.120	0.086	0.137	132.447060	44.704271	-233.04	1910.03
5	GUIDE	447885680	8.80	14256	-0.072	-0.147	0.079	0.128	131.837092	45.058884	1643.52	1183.84
6	GUIDE	447885760	8.60	14291	0.089	0.171	0.064	0.103	132.398636	45.440027	720.28	-564.07
7	GUIDE	447890768	8.89	14297	-0.050	0.139	0.084	0.136	132.714185	45.915872	510.78	-2440.33

2.4 Star Slots

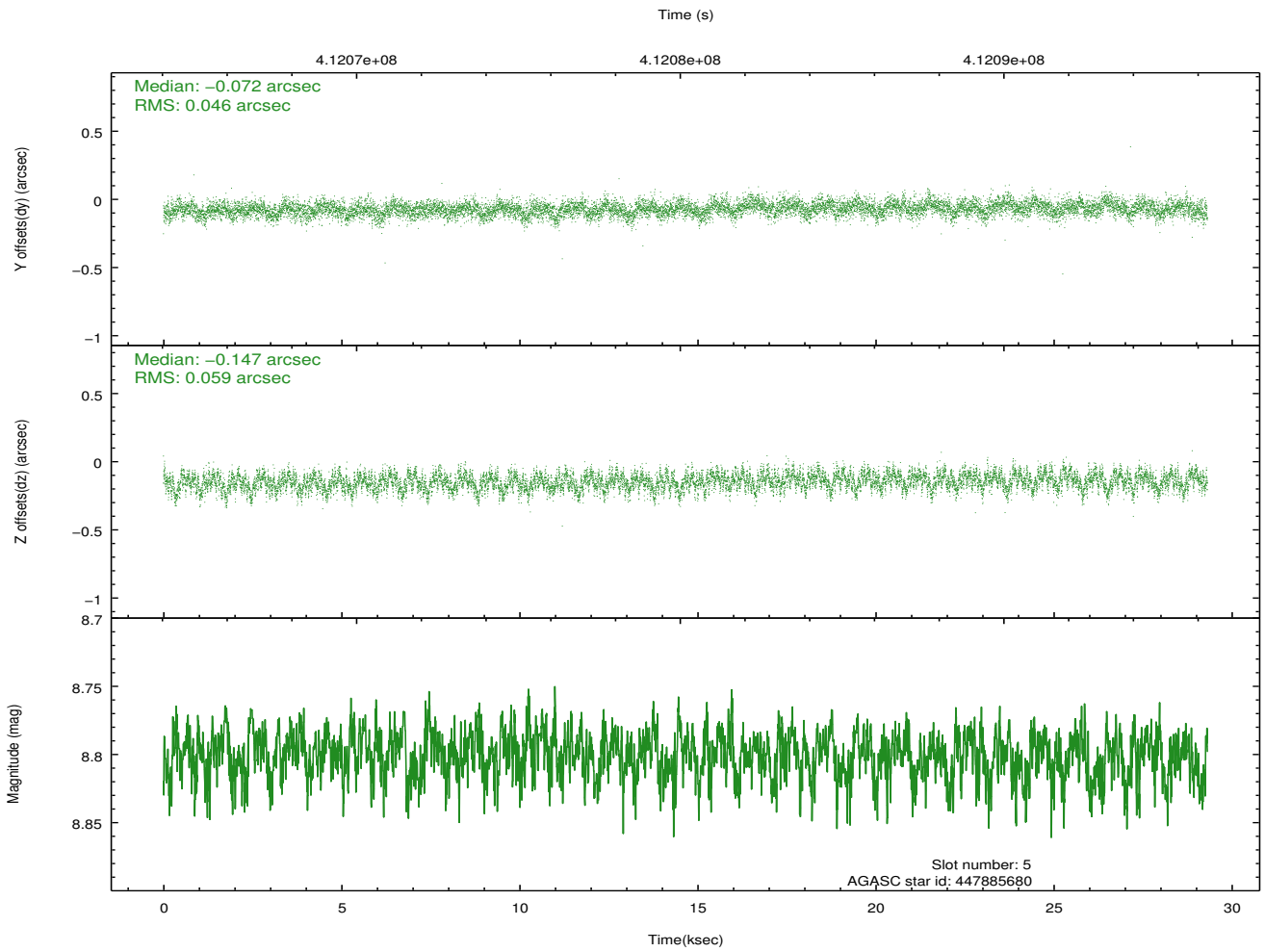
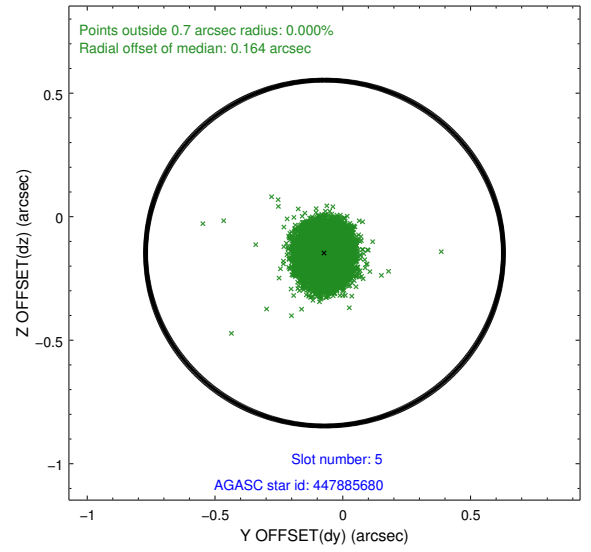
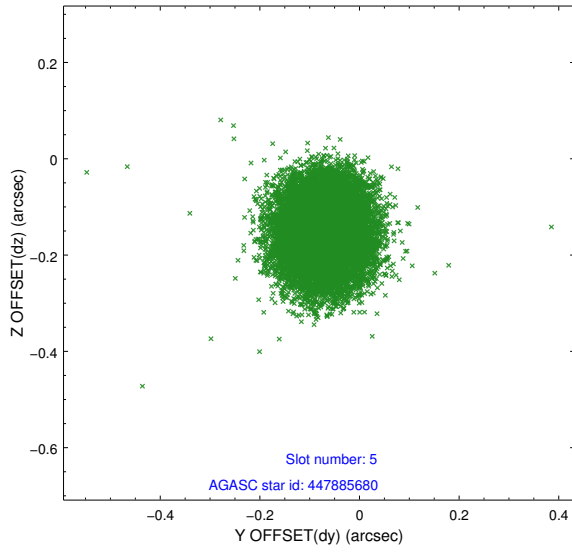
2.4.1 Slot 3



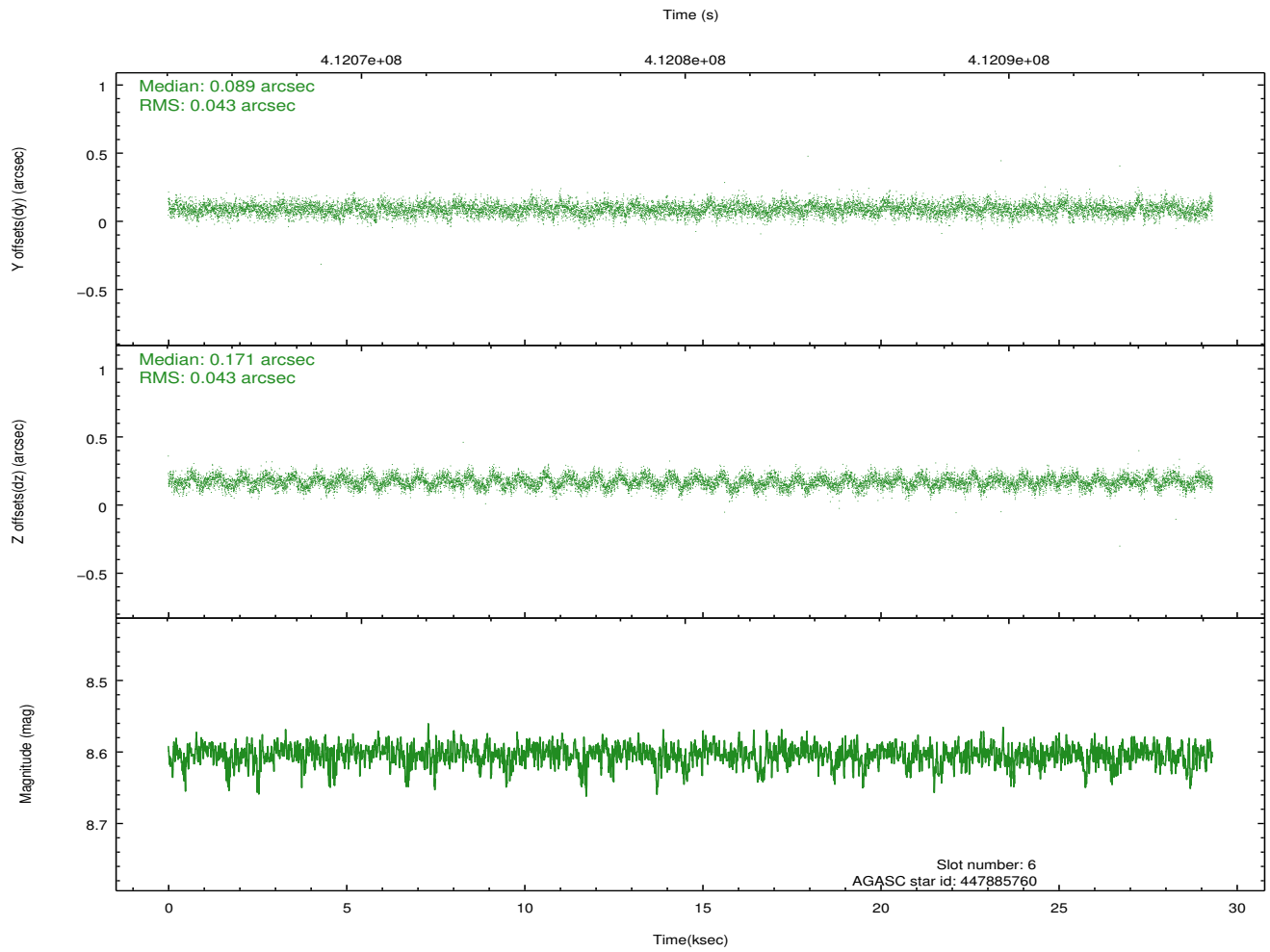
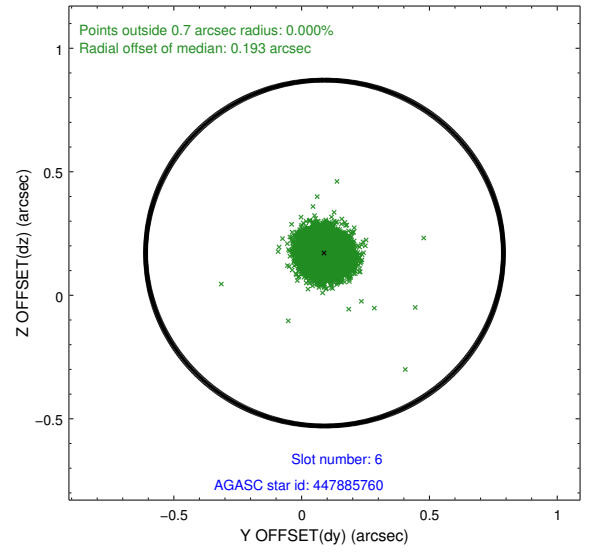
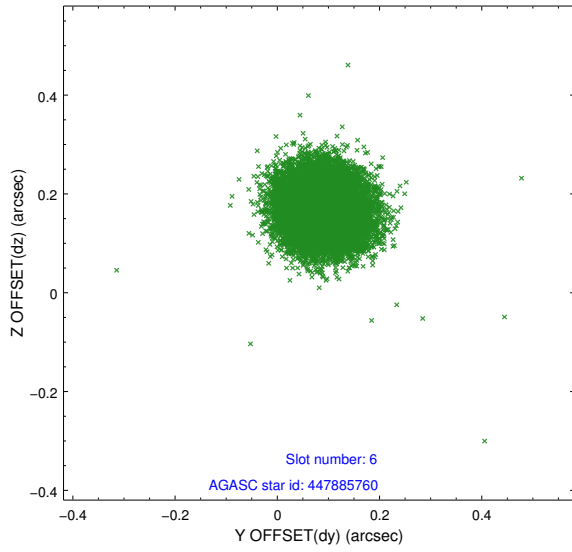
2.4.2 Slot 4



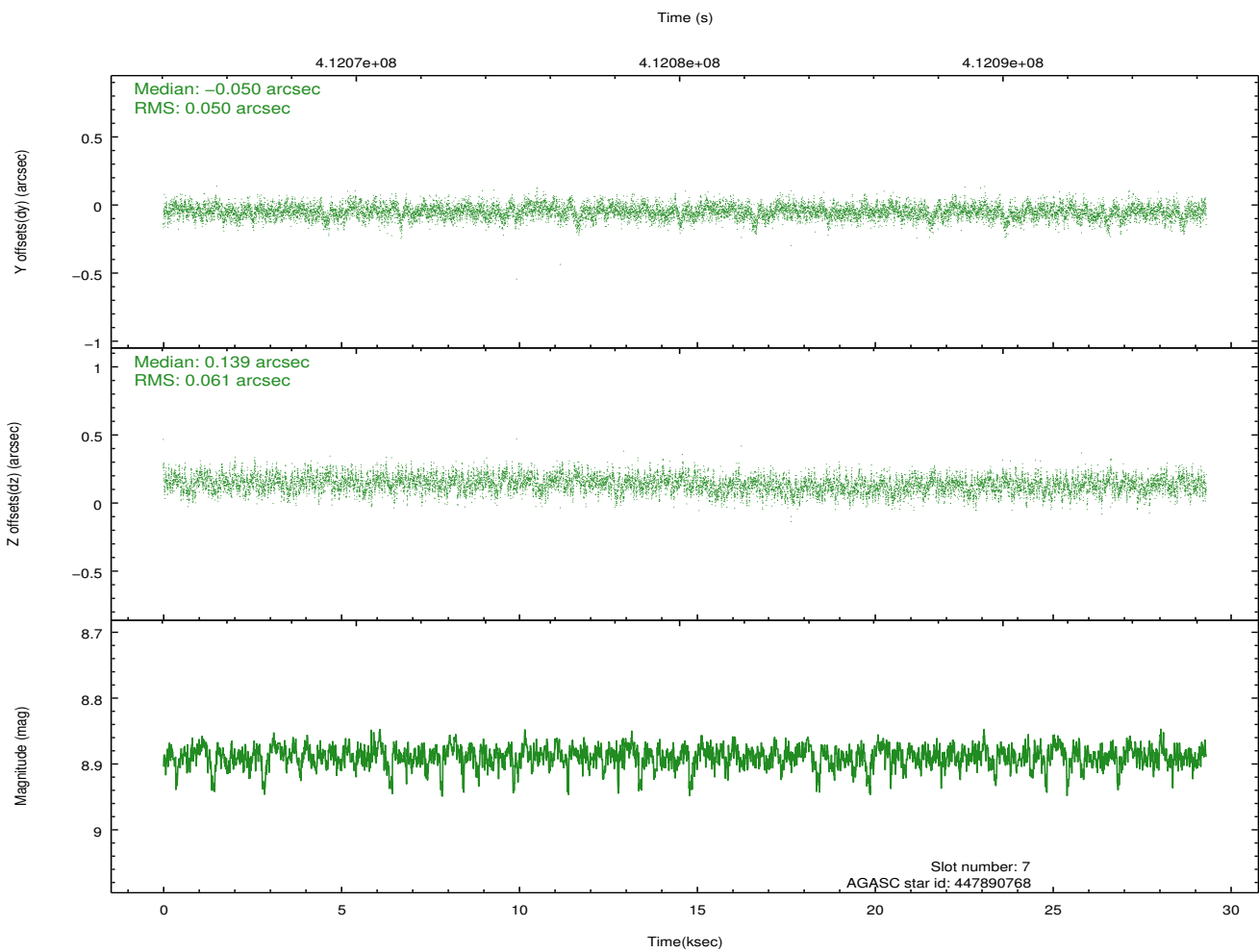
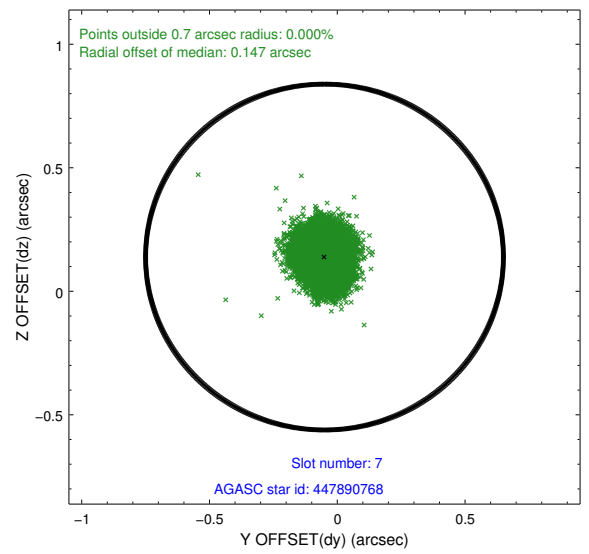
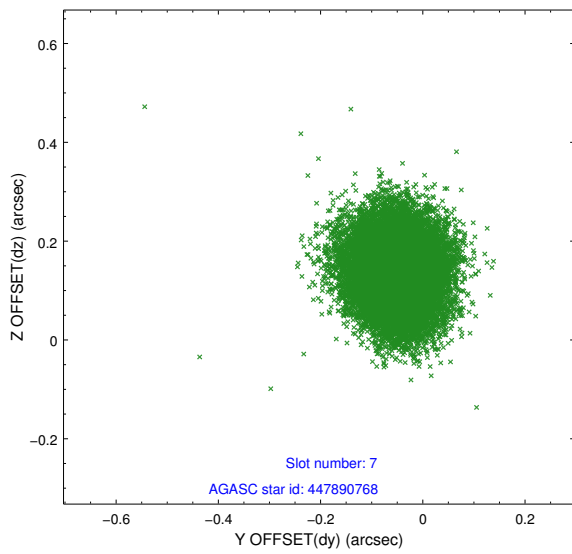
2.4.3 Slot 5



2.4.4 Slot 6

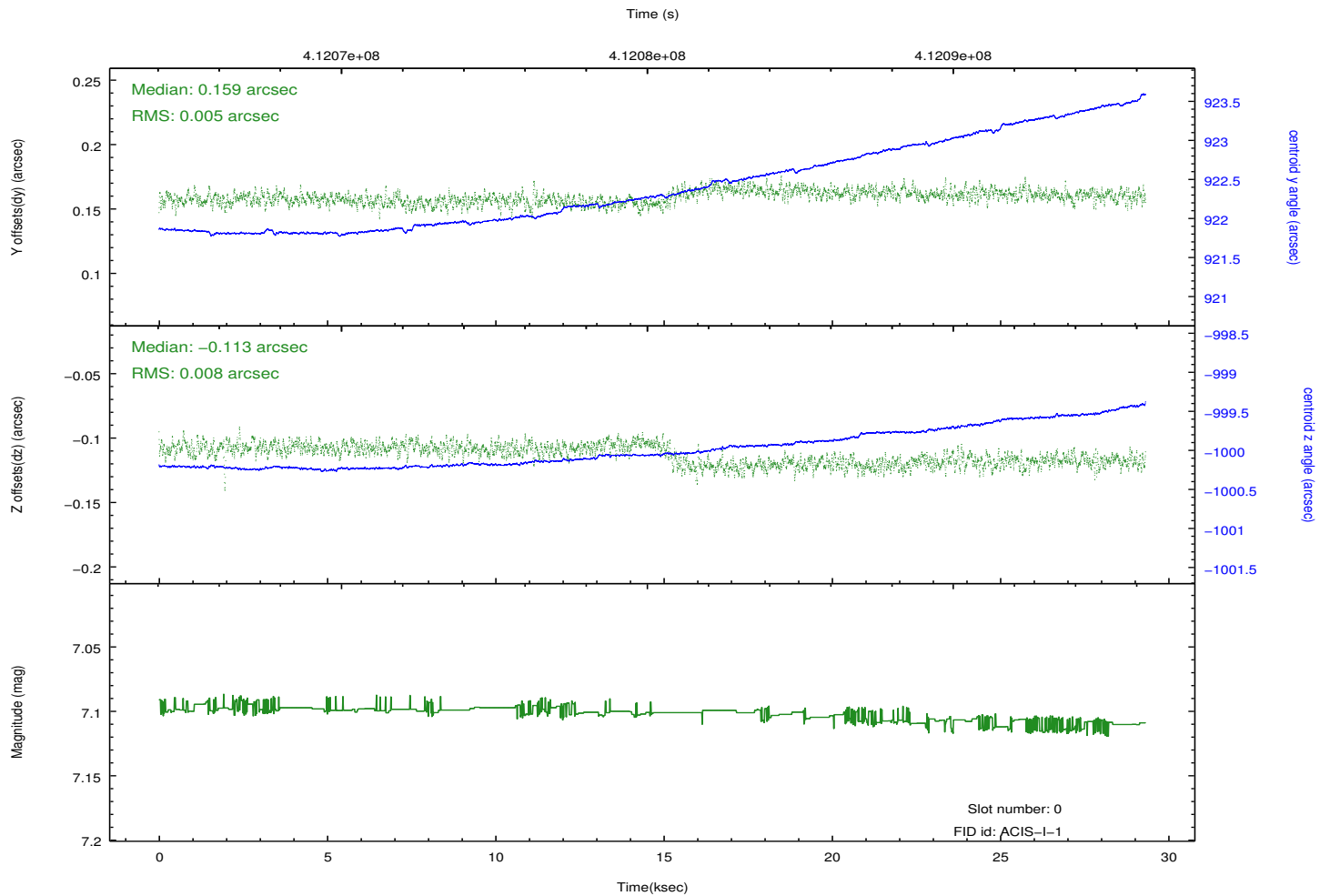
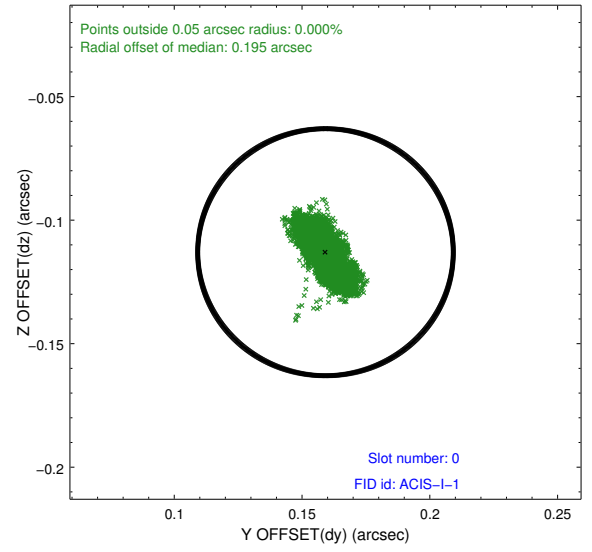
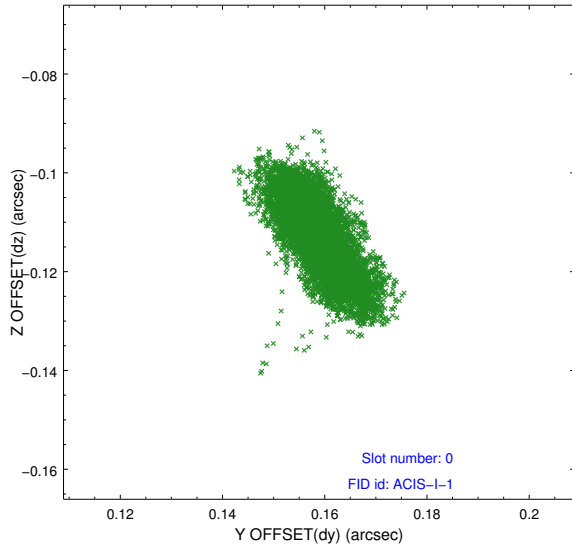


2.4.5 Slot 7

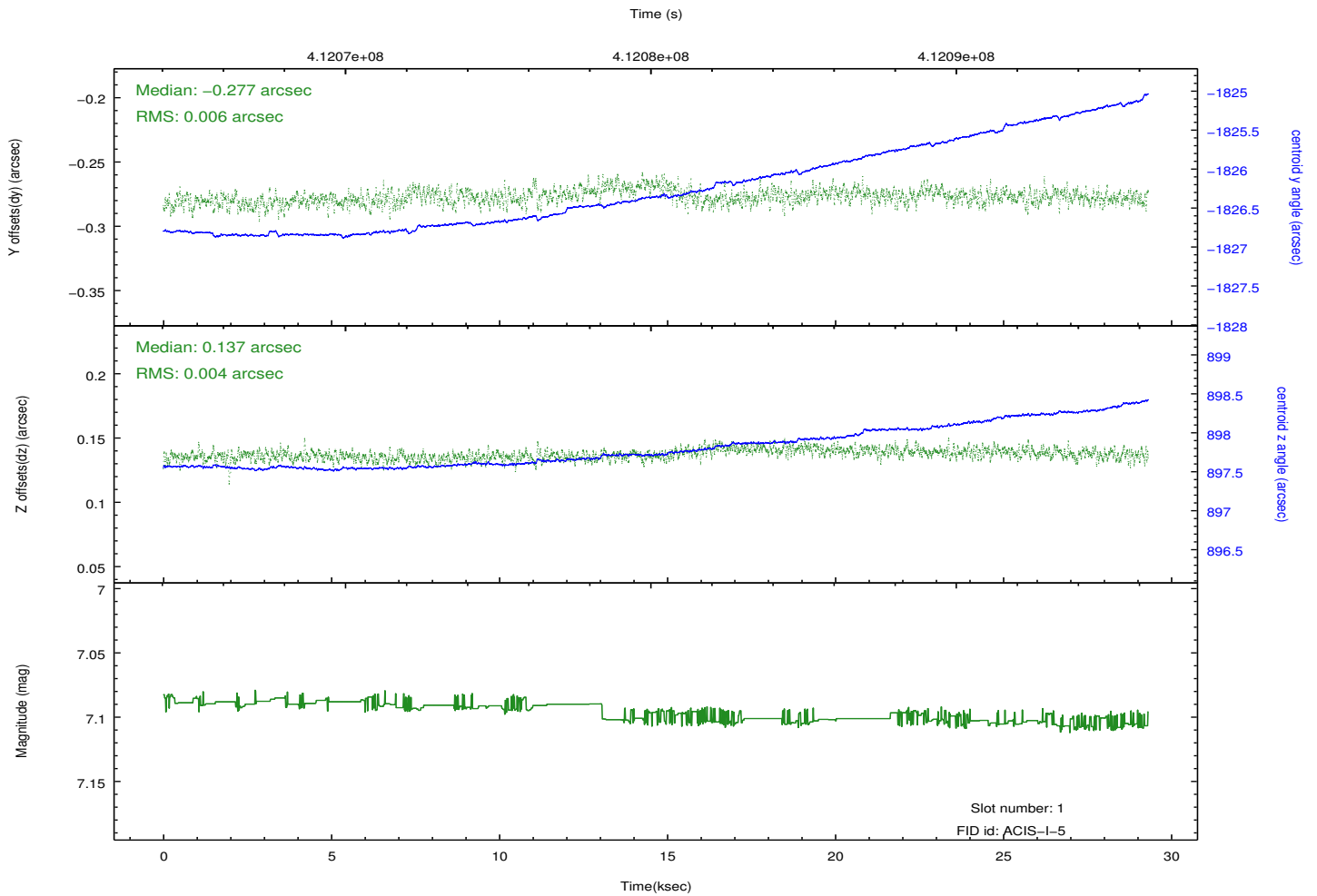
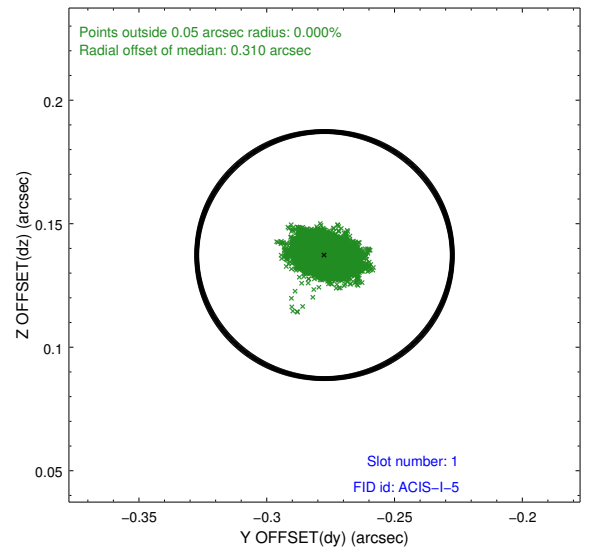
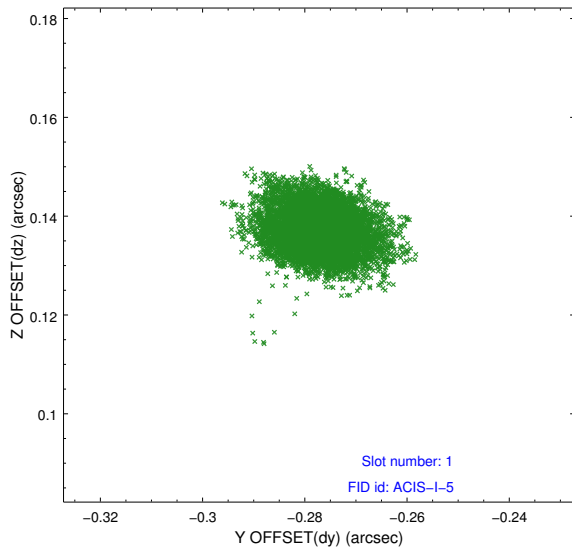


2.5 FID Slots

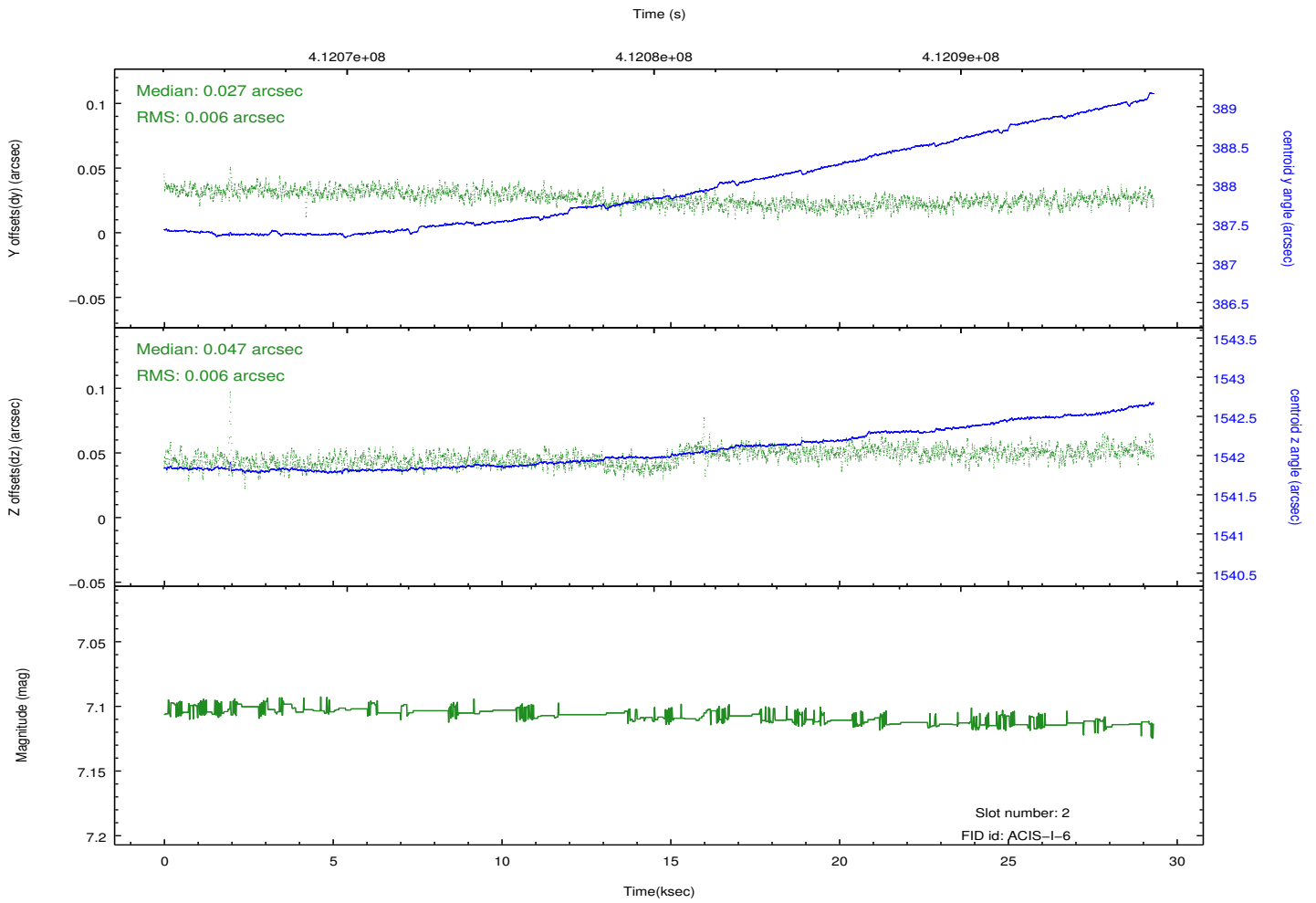
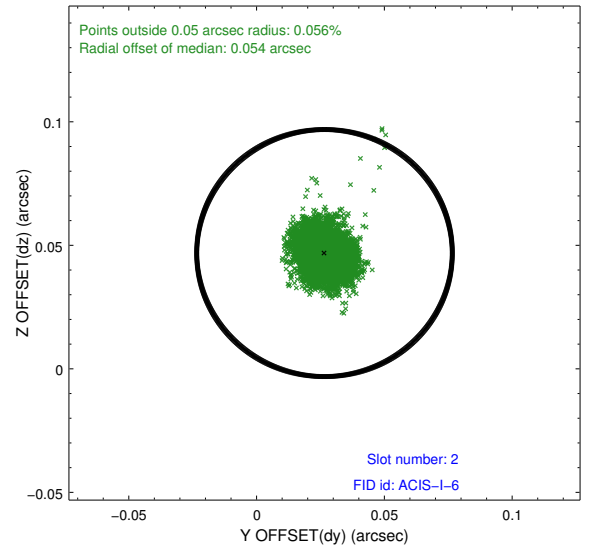
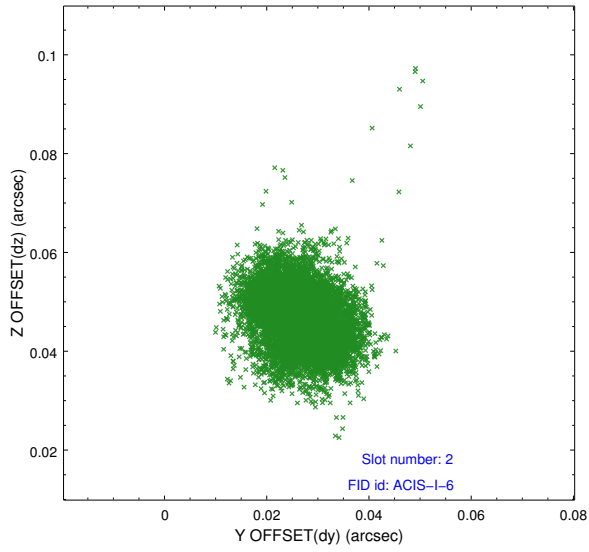
2.5.1 Slot 0



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)	2012.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.050059193134

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.