

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13412 - L2 Version 2
Chandra X-Ray Center

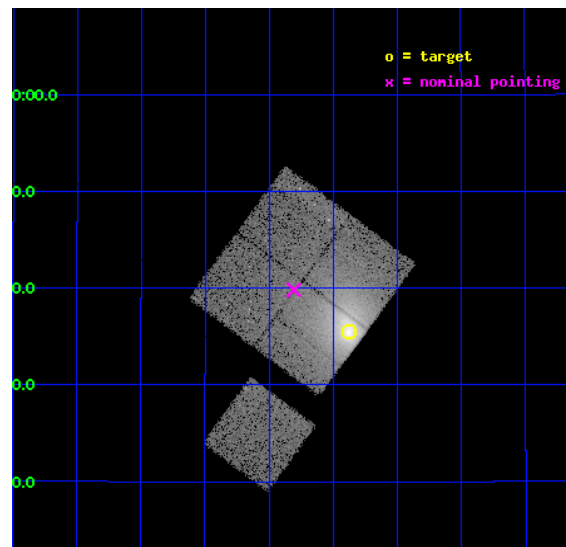
L2 Processing Date : Feb 10 2012

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1 Front

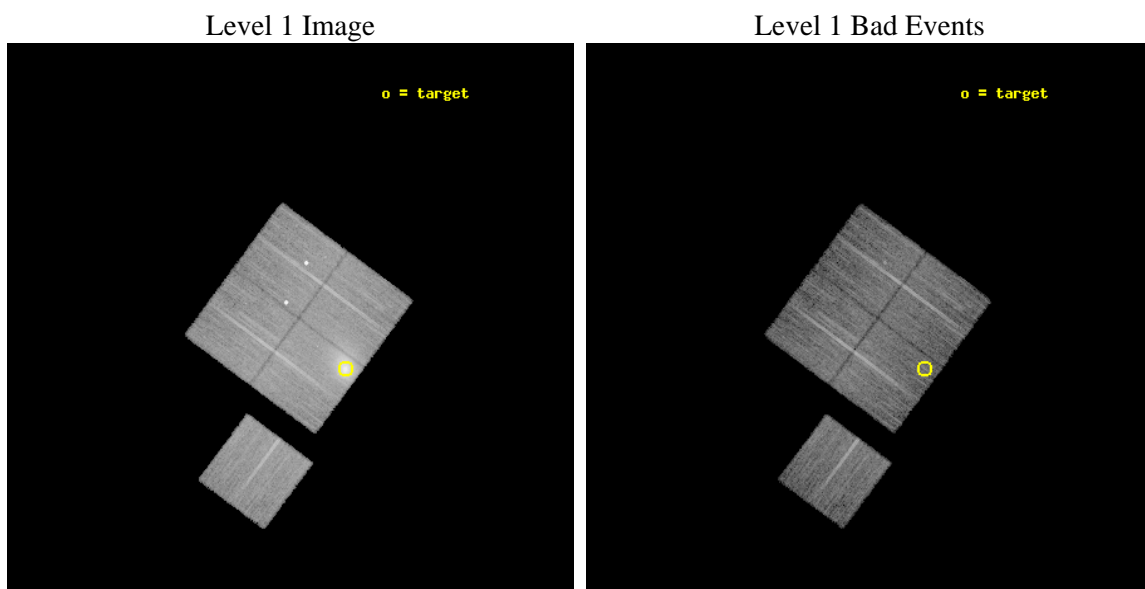
seq_num	890057	Sequence number
obs_id	13412	Observation id
title	Mapping the Spatial Distribution of the ACIS Contaminant	Proposal
observer	Dr. CXC Calibration	Principal investigator
object	Abell 1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219	Observer's specified target RA [deg]
dec_targ	26.591	Observer's specified target Dec [deg]
ra_nom	207.32653979083	Nominal RA [deg]
dec_nom	26.663912954266	Nominal Dec [deg]
roll_nom	216.55469924202	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15052.258301914	Sum of GTIs [s]
livetime	14855.589465888	Livetime [s]
ontime0	15052.176221907	Sum of GTIs [s]
ontime1	15052.21726191	Sum of GTIs [s]
ontime2	15052.258301914	Sum of GTIs [s]
ontime3	15052.299341917	Sum of GTIs [s]
ontime6	15048.994171679	Sum of GTIs [s]
l2events	131189	Number of level 2 events



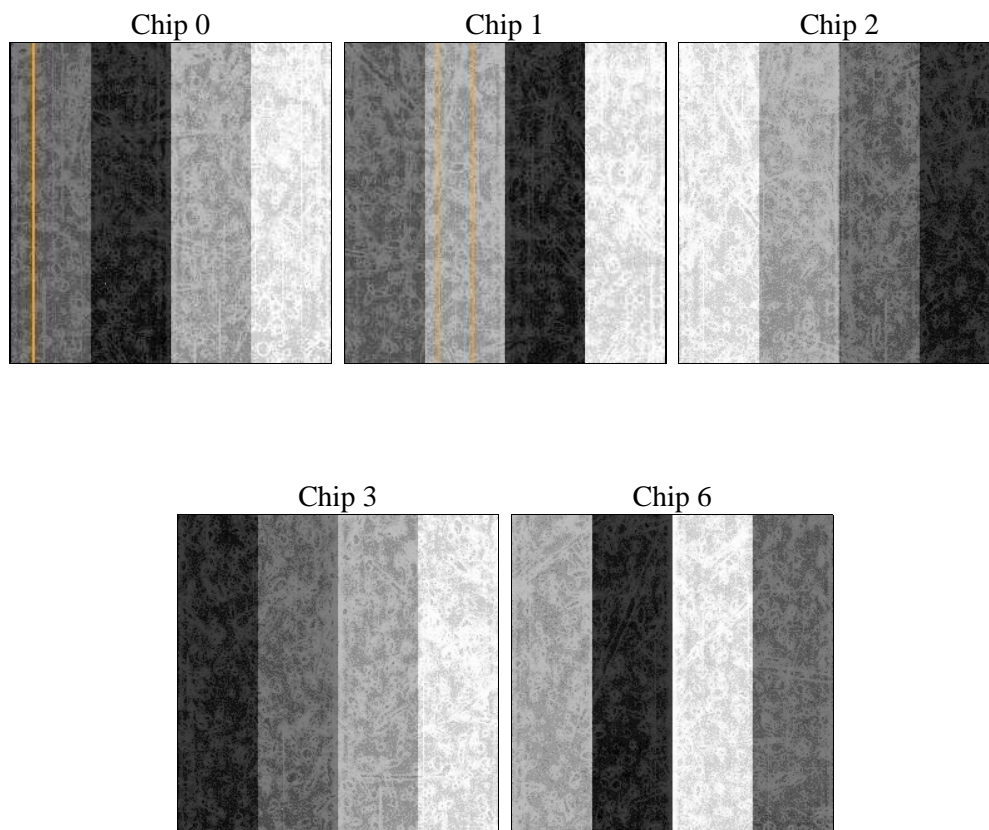
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	15052.258301914	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	15052.176221907	Sum of GTIs [s]
date	2012-02-11T00:19:08	Date and time of file creation	ontime1	15052.21726191	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	15052.258301914	Sum of GTIs [s]
			ontime3	15052.299341917	Sum of GTIs [s]
			ontime6	15048.994171679	Sum of GTIs [s]
			l1events	604232	Number of level 1 events

2.1.4 Events

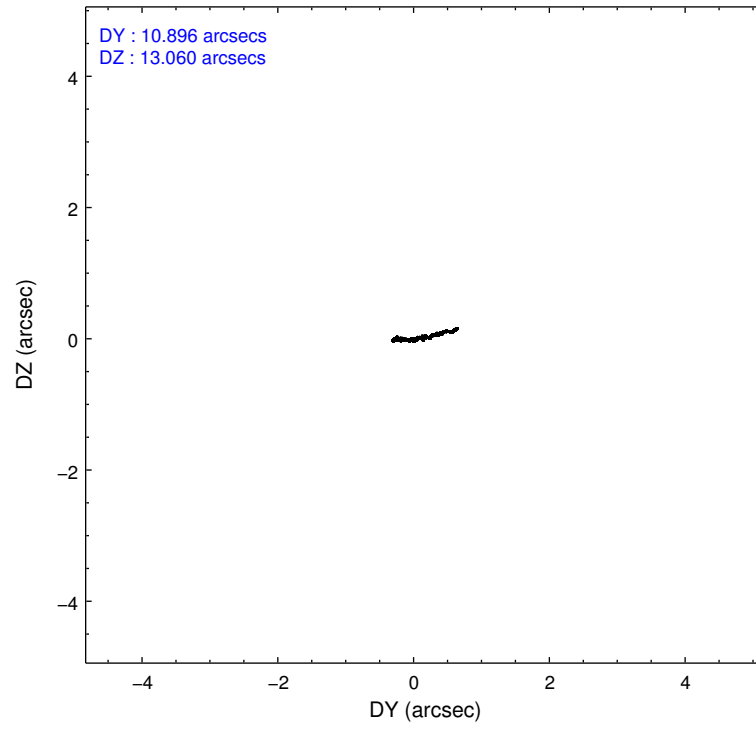
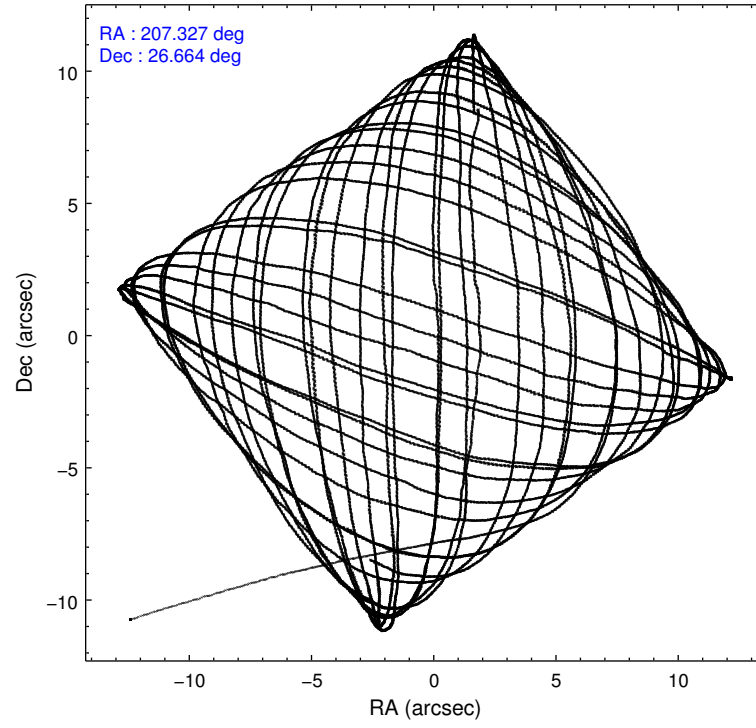
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	117502	107355	174910	103438	101027
rejected events	87035	84361	95069	91354	89585
rejected %	74%	78%	54%	88%	88%

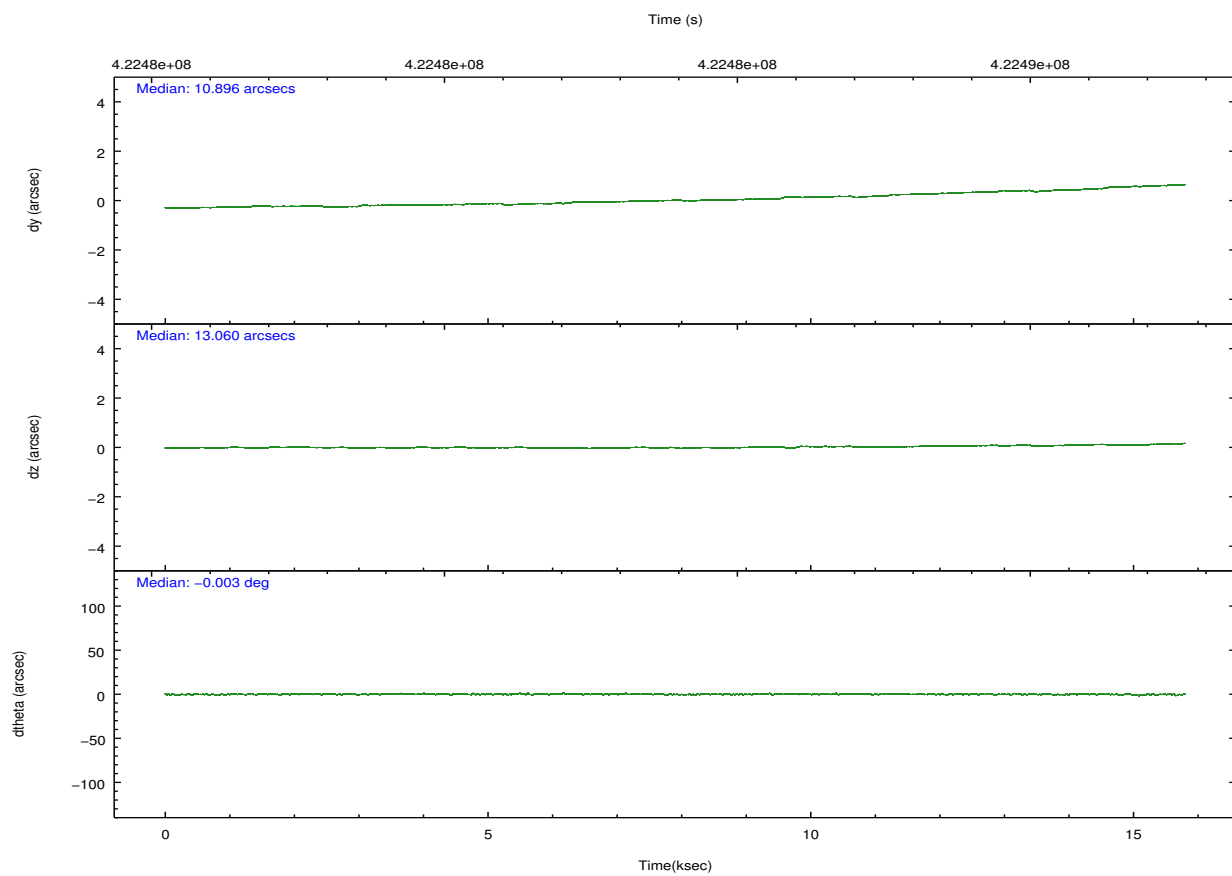
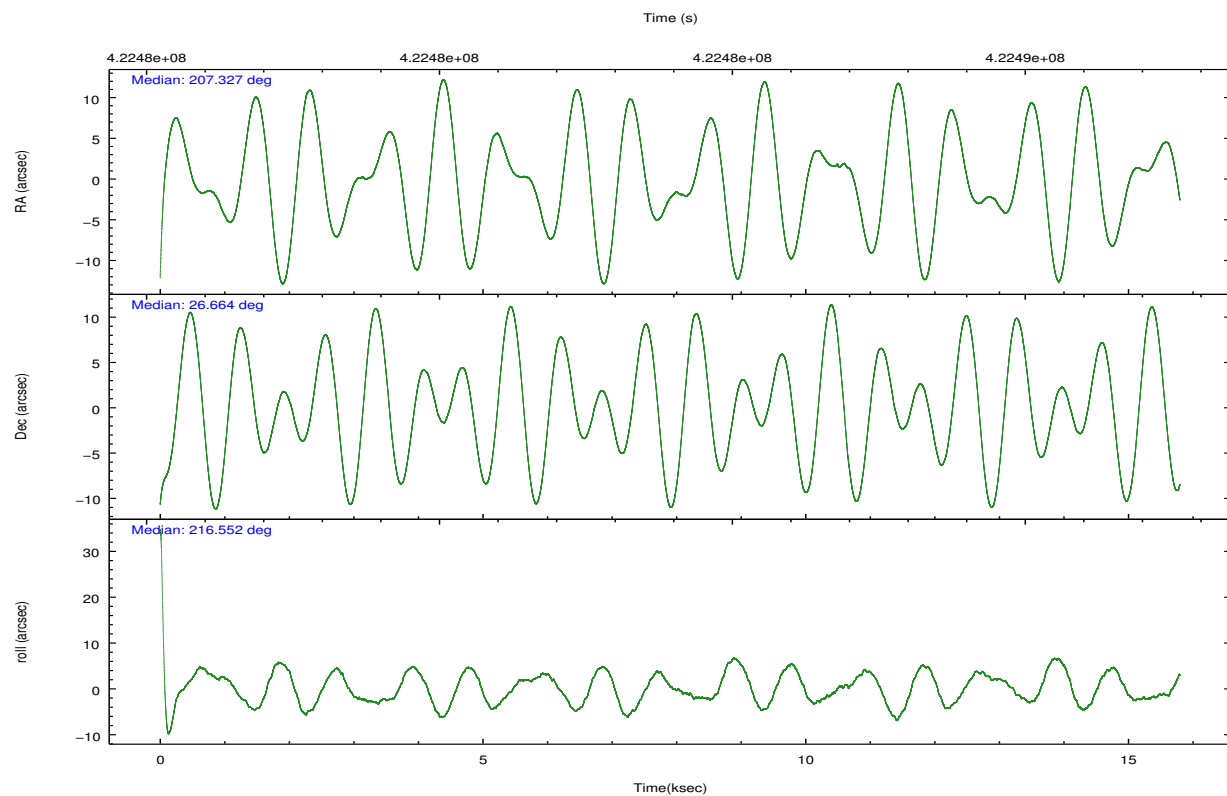
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	19393	9987	59437	4976	3992
	16%	9%	33%	4%	3%
grade 1 events	104	65	312	66	46
	0%	0%	0%	0%	0%
grade 2 events	4794	7776	9795	2474	2554
	4%	7%	5%	2%	2%
grade 3 events	1805	1290	3335	1195	1108
	1%	1%	1%	1%	1%
grade 4 events	1705	1248	3388	1199	1134
	1%	1%	1%	1%	1%
grade 5 events	4085	4246	4022	4761	4224
	3%	3%	2%	4%	4%
grade 6 events	2784	2699	3923	2247	2661
	2%	2%	2%	2%	2%
grade 7 events	82832	80044	90698	86520	85308
	70%	74%	51%	83%	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	207.338631	207.3265397908299	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.689202	26.66391295426586	Alternating exposures requested	N	N
[deg] Pointing Roll	216.340546	216.5546992420228	[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	-231.837463	-231.8374710109429			
[mm] SIM translation stage offset	-1.755	-1.754981991986767			
[s] Observation start time (MET)	422476828.184000	422475306.44463			
Observation start date	2011-05-22T18:39:22	2011-05-22T18:15:06			
[s] Observation end time (MET)	422491828.184000	422492441.88302			
Observation end date	2011-05-22T22:49:22	2011-05-22T23:00:41			
Read mode	TIMED	TIMED			

2.3 Aspect



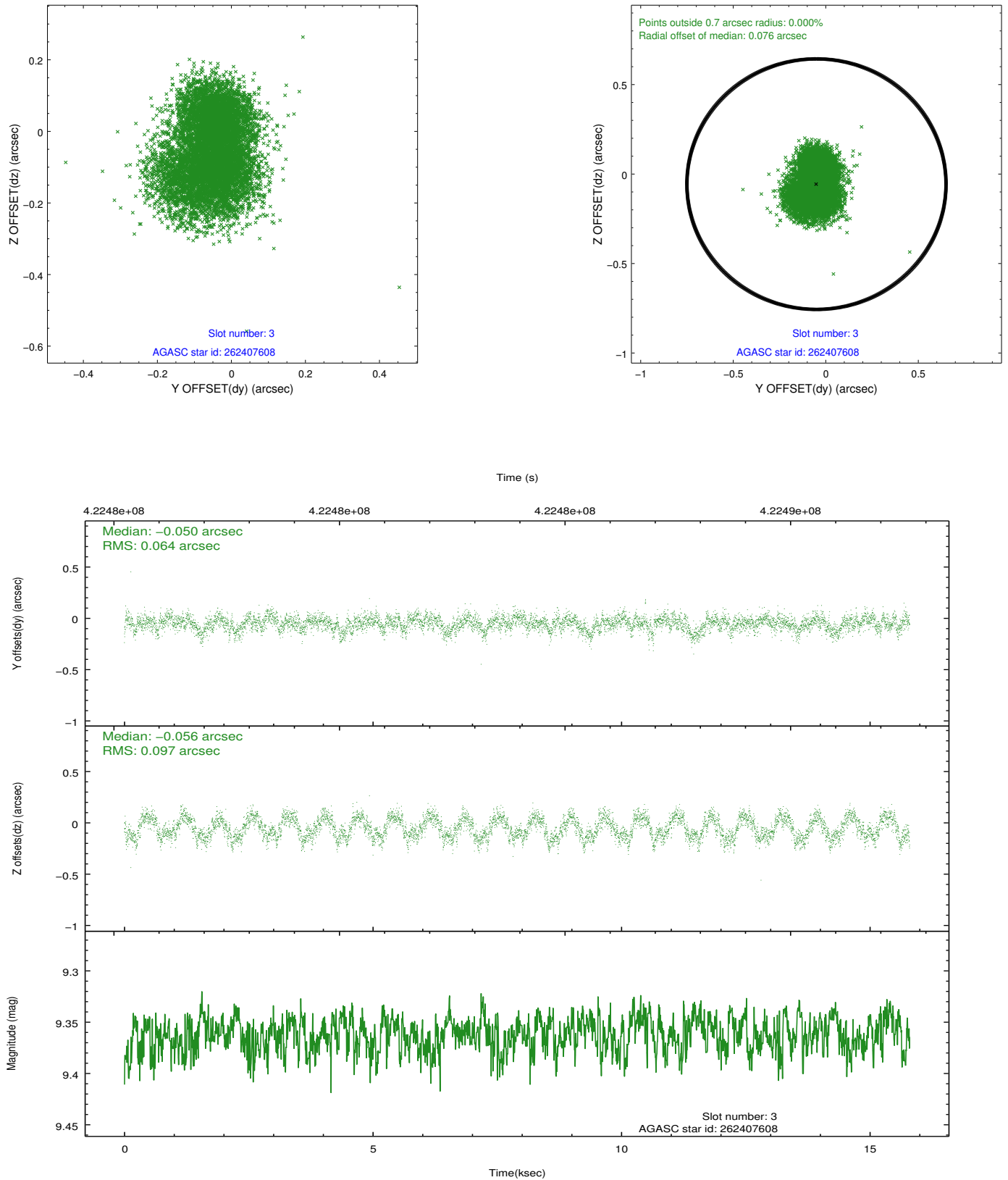


Slot Statistics

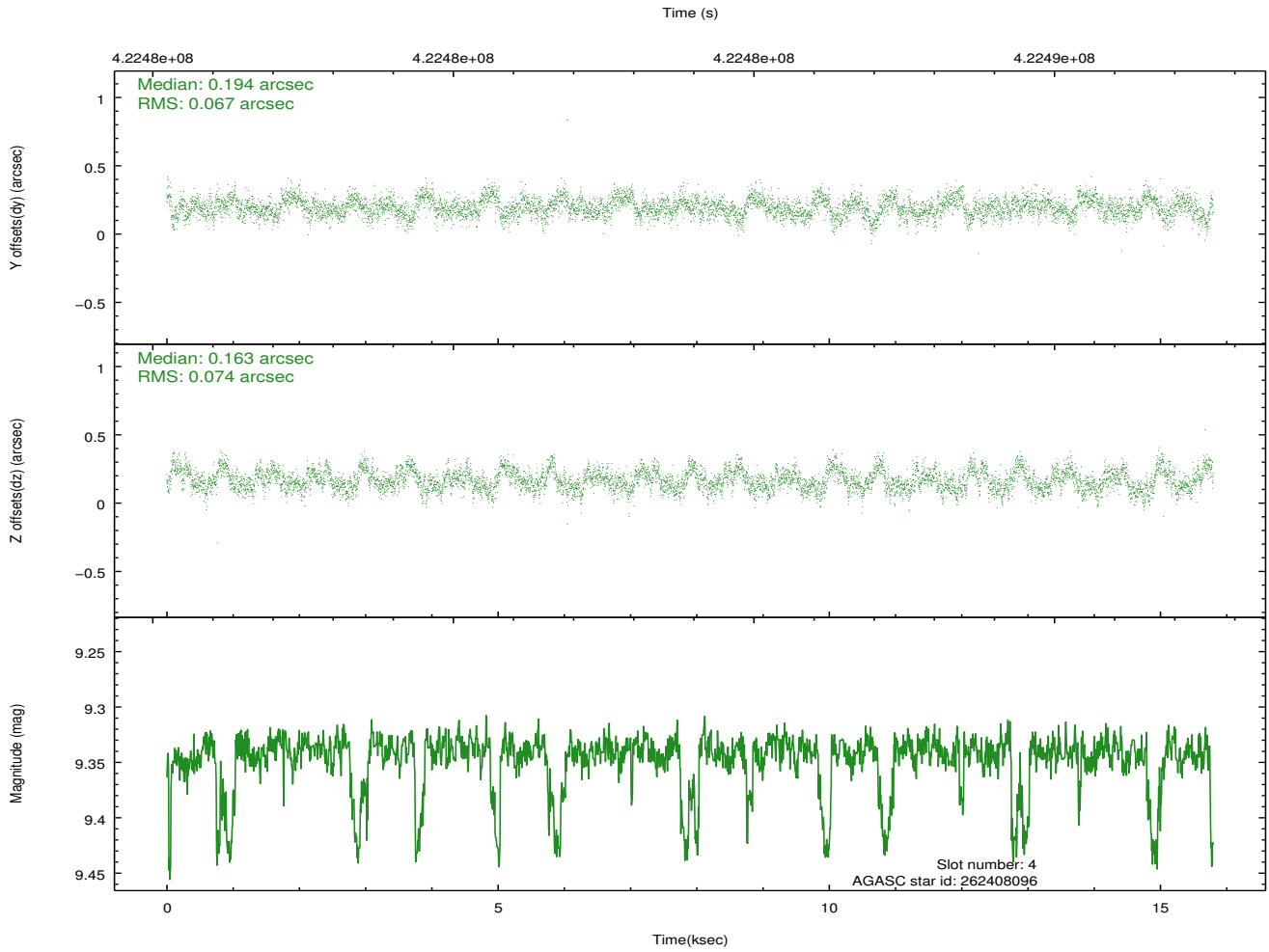
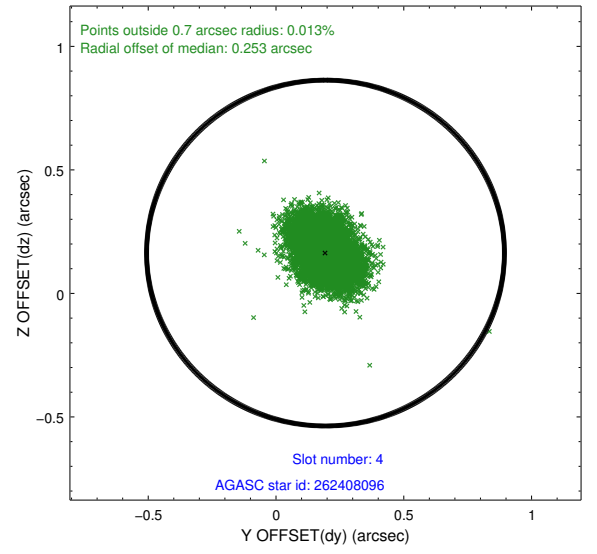
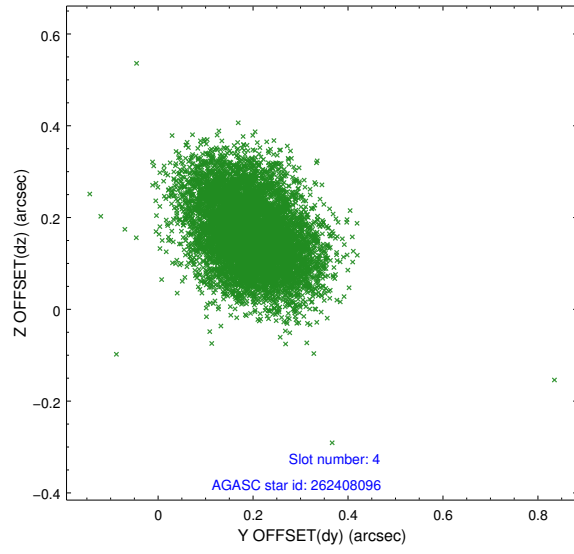
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.11	3854	0.053	0.002	0.010	0.016	0.000000	0.000000	928.65	-872.56
1	FID	ACIS-I-5	7.08	3854	-0.238	0.055	0.012	0.018	0.000000	0.000000	-1819.62	1024.79
2	FID	ACIS-I-6	7.09	3854	0.094	0.013	0.009	0.015	0.000000	0.000000	393.90	1669.60
3	GUIDE	262407608	9.36	7694	-0.050	-0.056	0.127	0.191	207.378401	26.435507	438.04	811.75
4	GUIDE	262408096	9.34	7669	0.194	0.163	0.106	0.173	207.011678	26.515421	1219.06	-121.29
5	GUIDE	262408512	7.99	7705	-0.149	0.006	0.075	0.120	207.800210	27.128796	-2130.34	-400.66
6	GUIDE	262800360	8.57	7705	-0.103	-0.143	0.089	0.140	207.437814	27.569136	-2132.29	-2364.68
7	GUIDE	262411960	9.65	7697	0.119	0.024	0.112	0.179	207.327895	25.881727	1750.69	2320.80

2.4 Star Slots

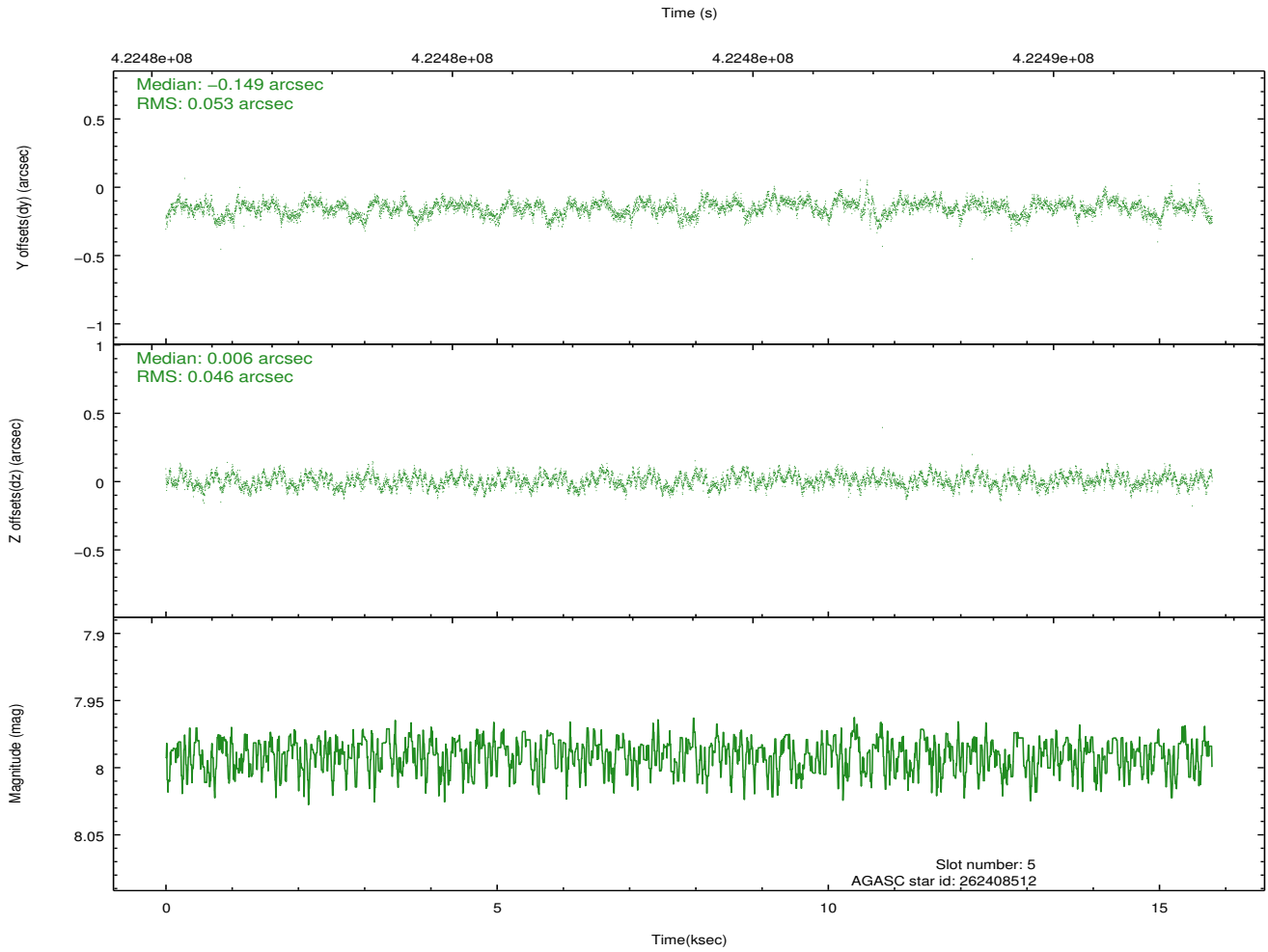
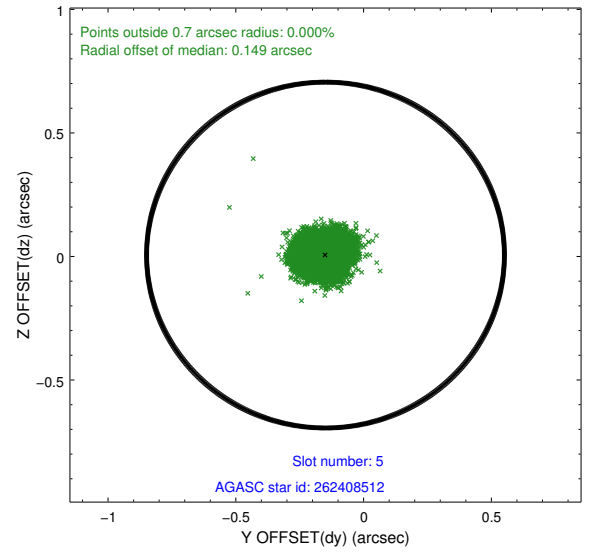
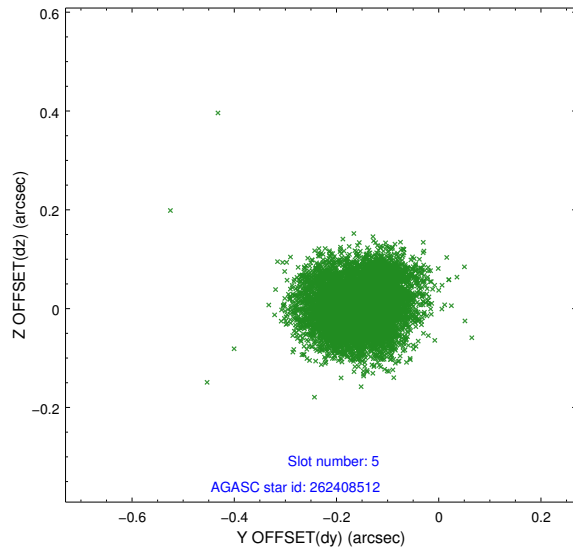
2.4.1 Slot 3



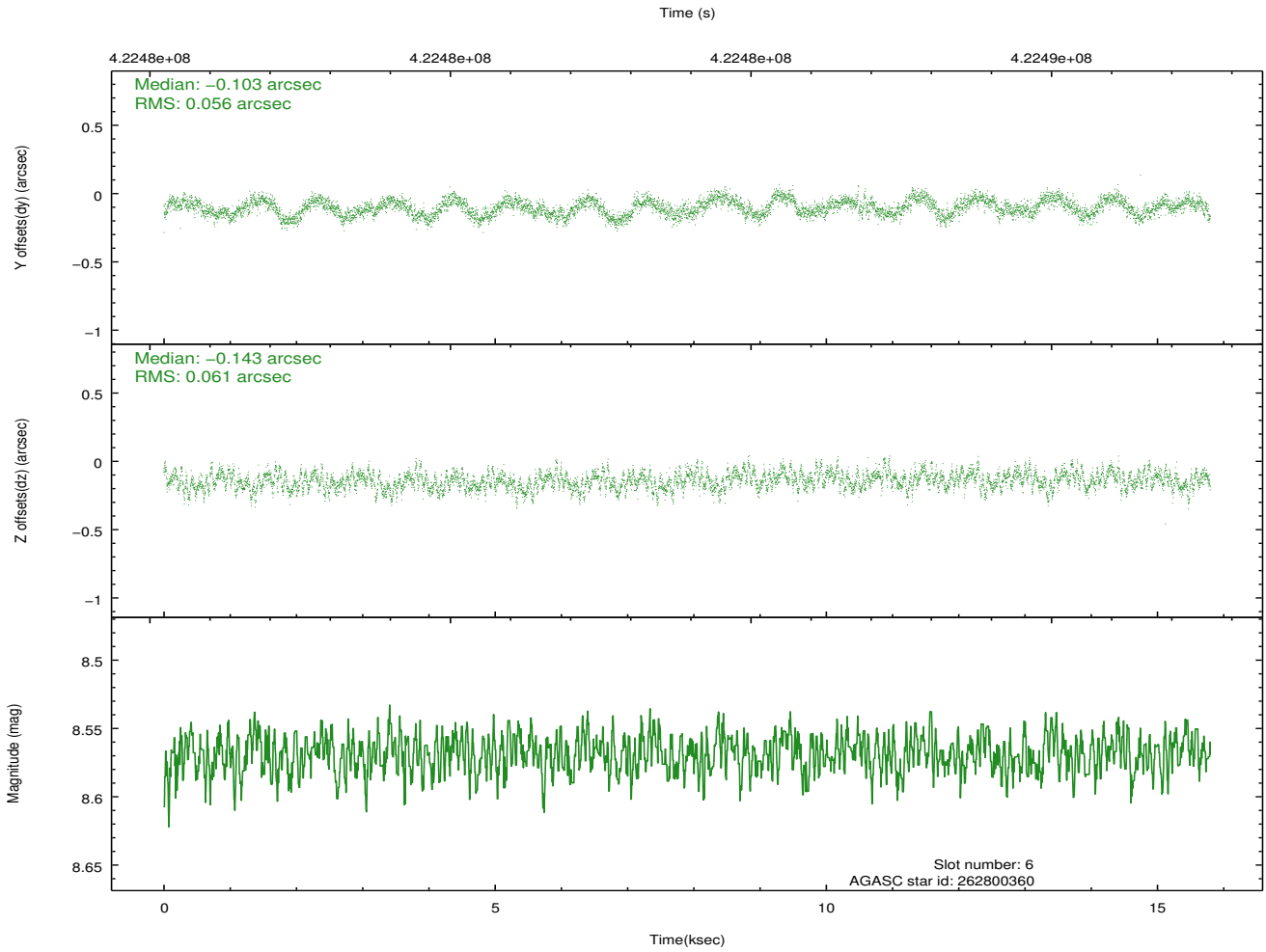
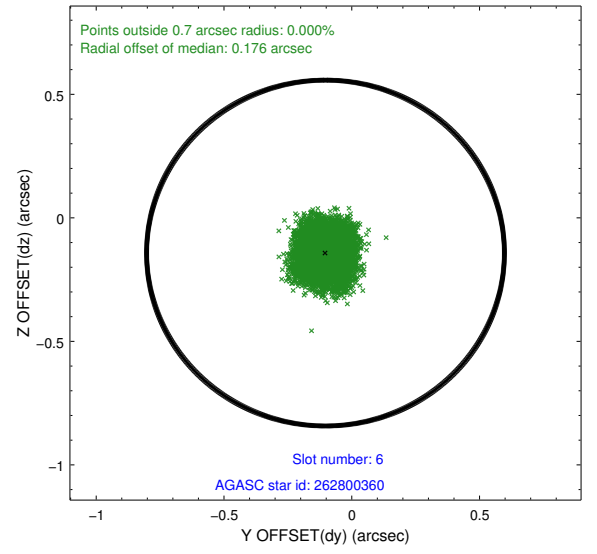
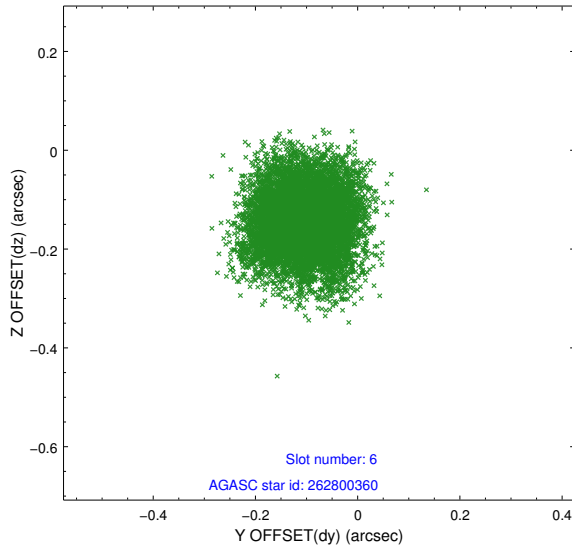
2.4.2 Slot 4



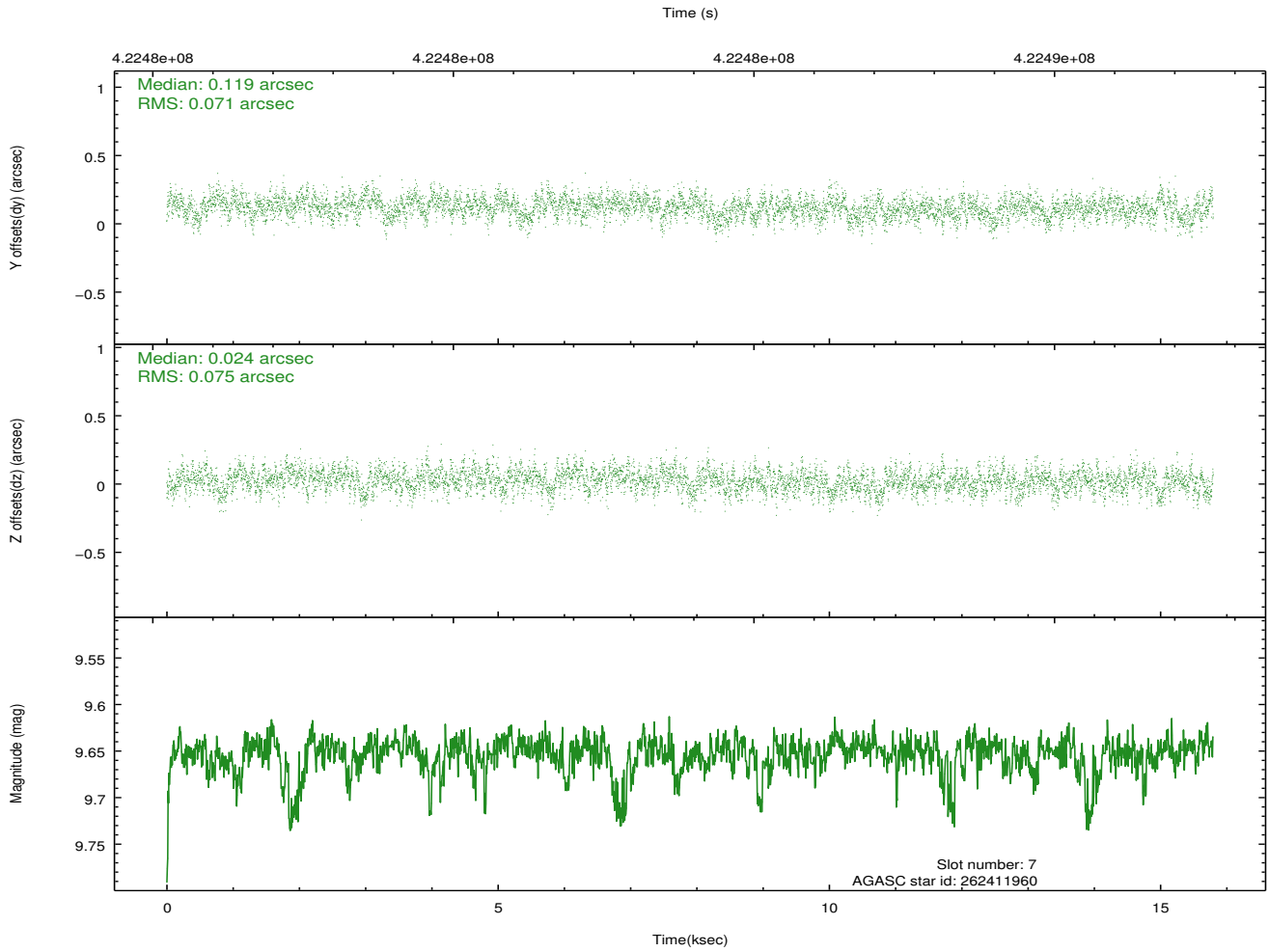
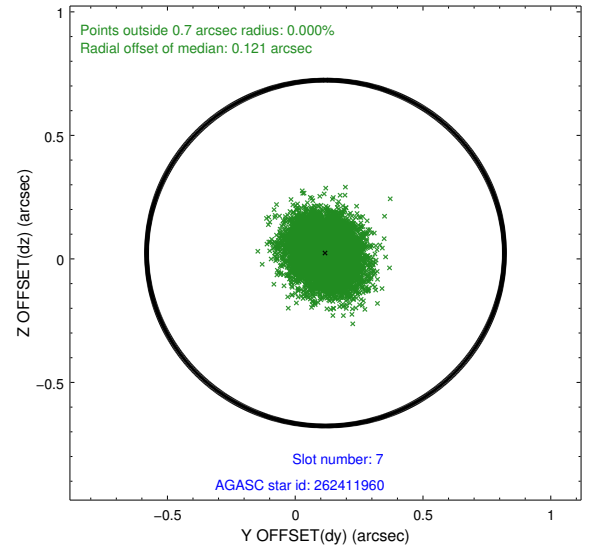
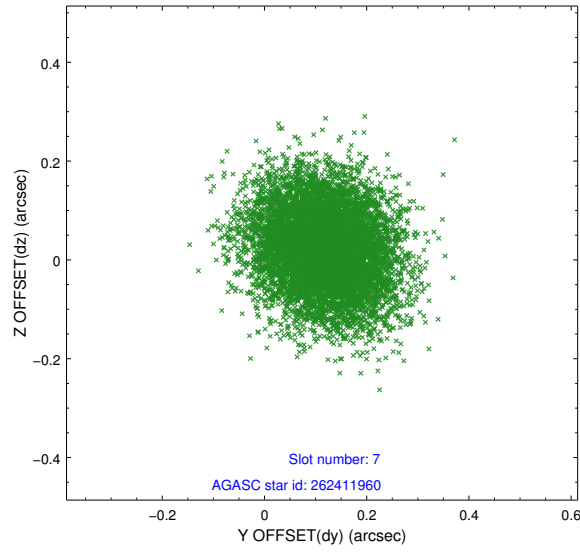
2.4.3 Slot 5



2.4.4 Slot 6

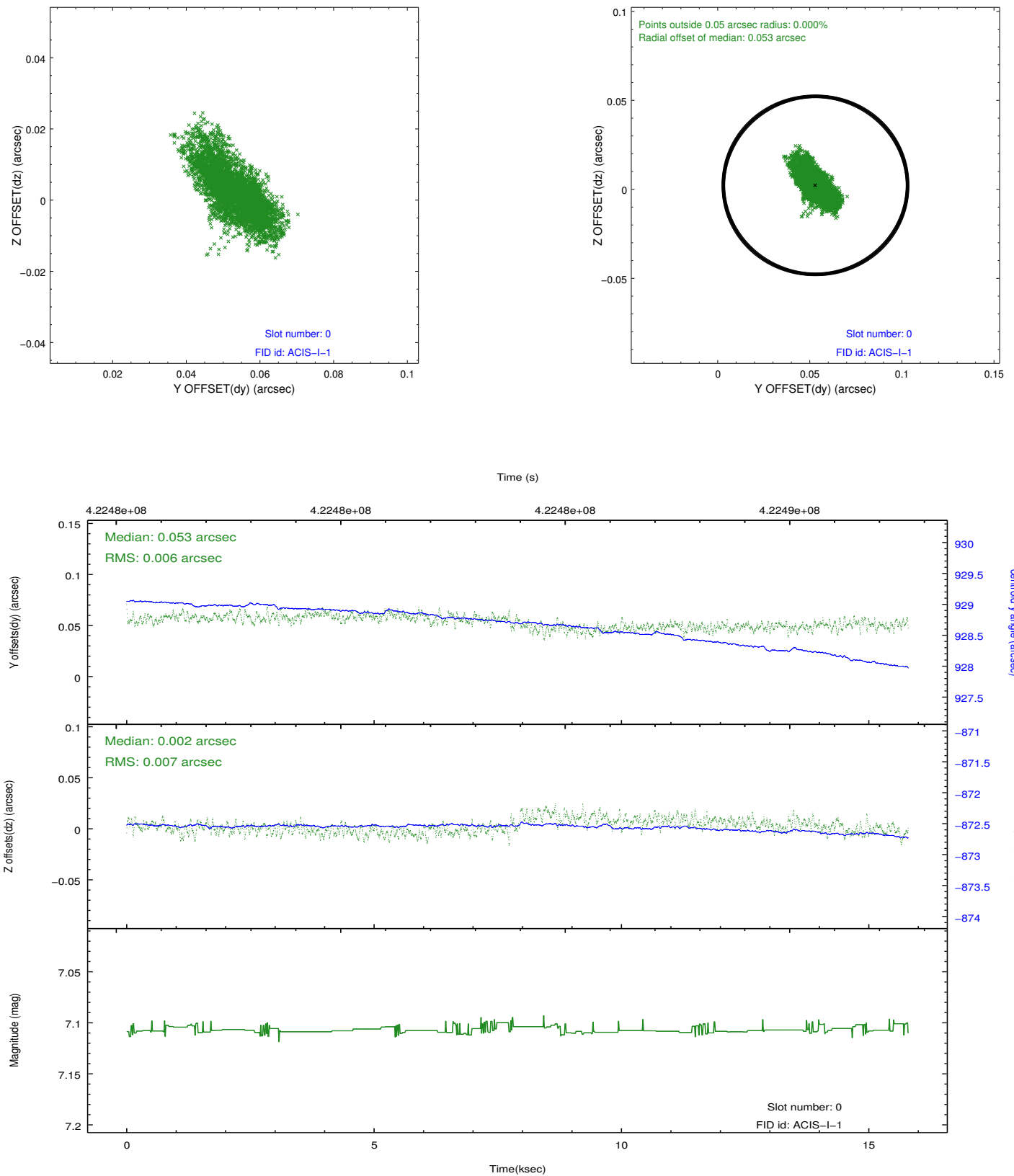


2.4.5 Slot 7

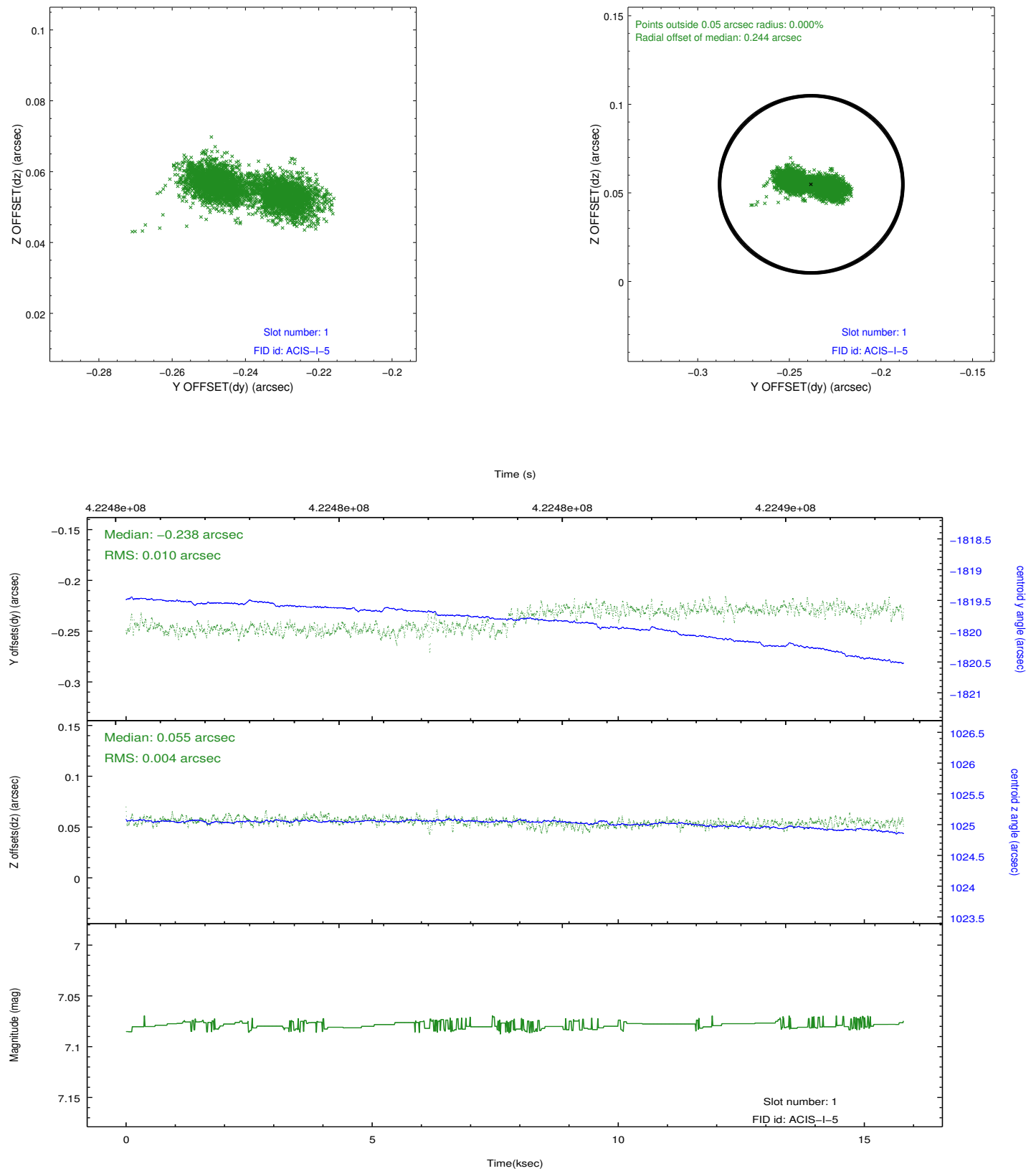


2.5 FID Slots

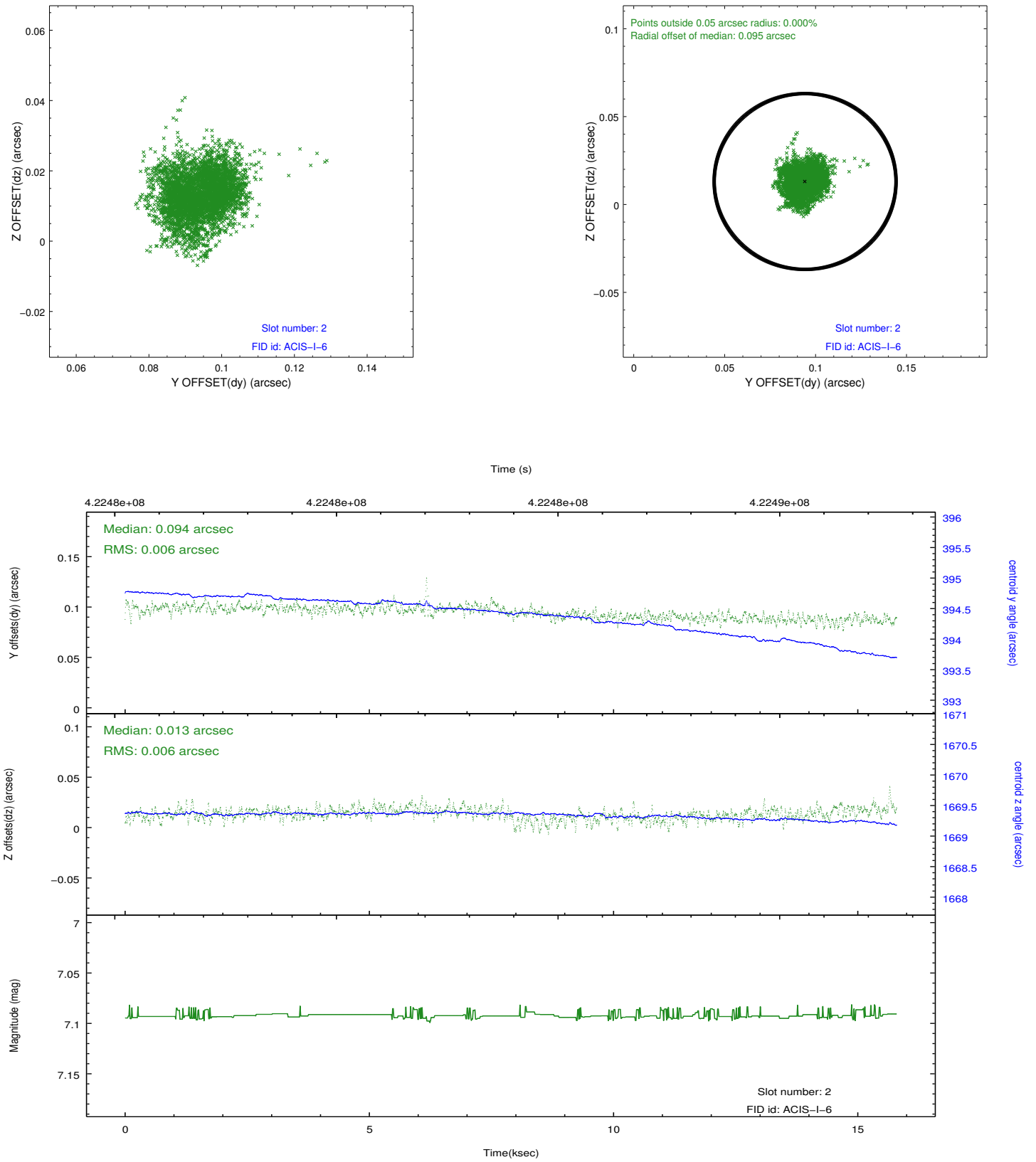
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.052258301497

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.

=====

Target is very off-axis.