

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13417 - L2 Version 2
Chandra X-Ray Center

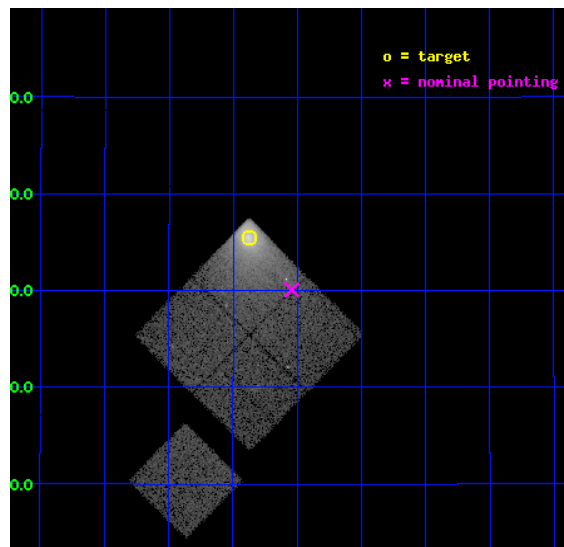
L2 Processing Date : Feb 11 2012

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1 Front

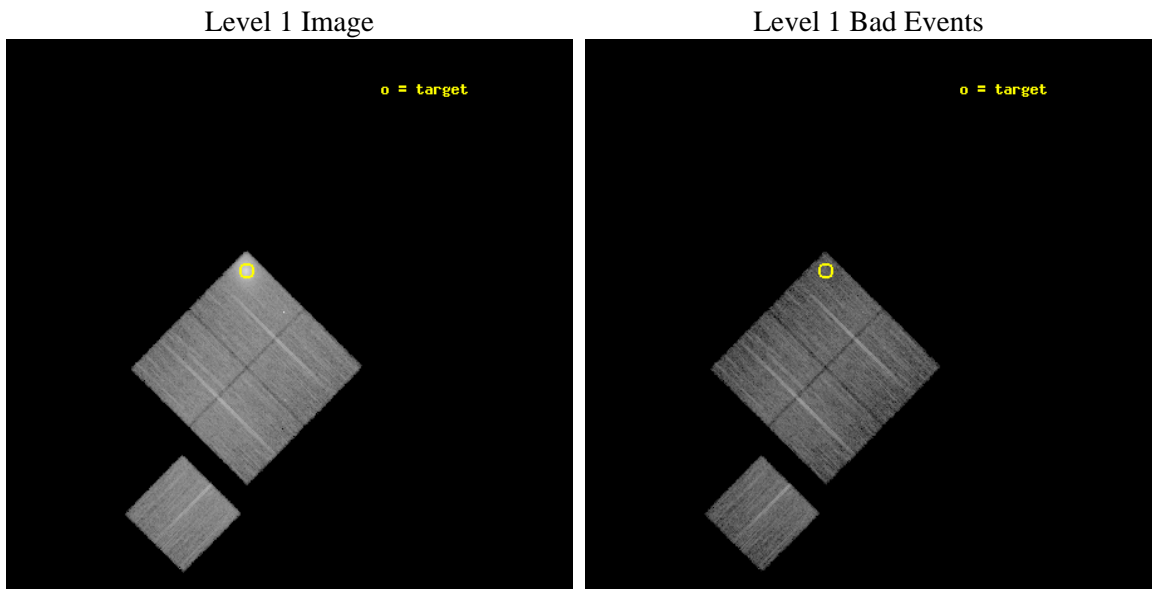
seq_num	890062	Sequence number
obs_id	13417	Observation id
title	Mapping the Spatial Distribution of the ACIS Contaminant	Proposal
observer	Dr. CXC Calibration	Principal investigator
object	Abell 1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219	Observer's specified target RA [deg]
dec_targ	26.591	Observer's specified target Dec [deg]
ra_nom	207.13534414693	Nominal RA [deg]
dec_nom	26.501520292524	Nominal Dec [deg]
roll_nom	224.60023855697	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15053.140762091	Sum of GTIs [s]
livetime	14856.460396073	Livetime [s]
ontime0	15053.099722087	Sum of GTIs [s]
ontime1	15053.140762091	Sum of GTIs [s]
ontime2	15053.181802094	Sum of GTIs [s]
ontime3	15053.222842097	Sum of GTIs [s]
ontime6	15049.917731702	Sum of GTIs [s]
l2events	115045	Number of level 2 events



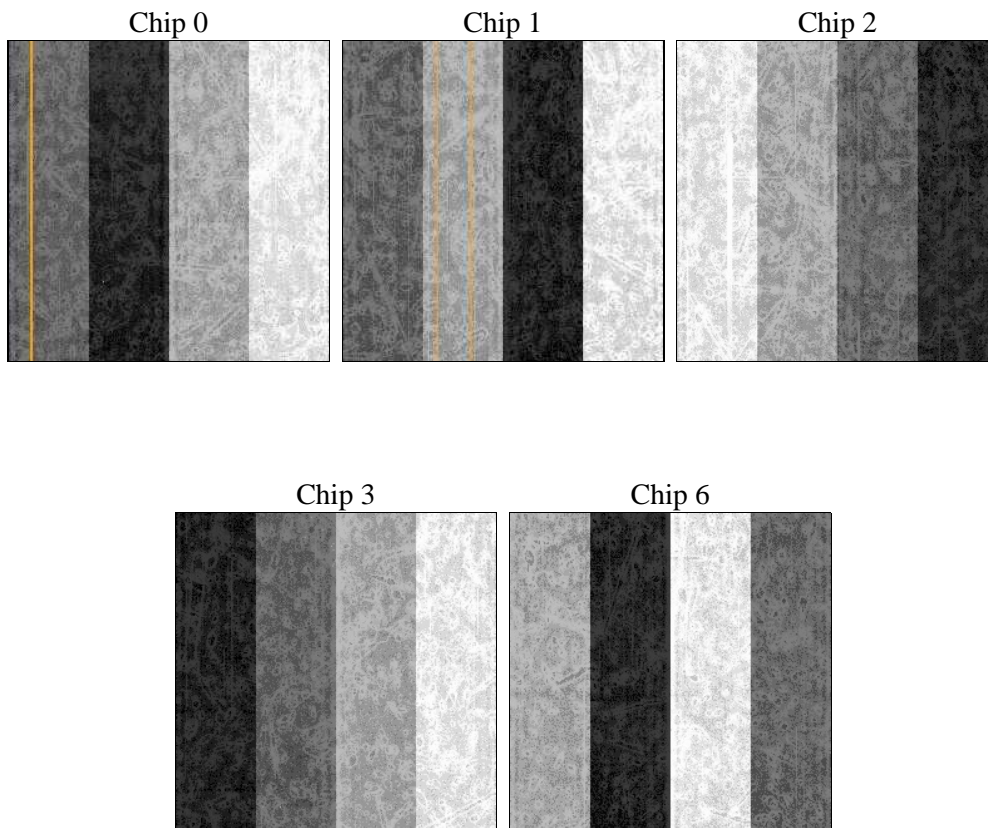
2 OBI

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	15053.140762091	Sum of GTIs [s]
caldbver	4.4.7	 	ontime0	15053.099722087	Sum of GTIs [s]
date	2012-02-11T16:51:34	Date and time of file creation	ontime1	15053.140762091	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	15053.181802094	Sum of GTIs [s]
			ontime3	15053.222842097	Sum of GTIs [s]
			ontime6	15049.917731702	Sum of GTIs [s]
			l1events	547240	Number of level 1 events

2.1.4 Events

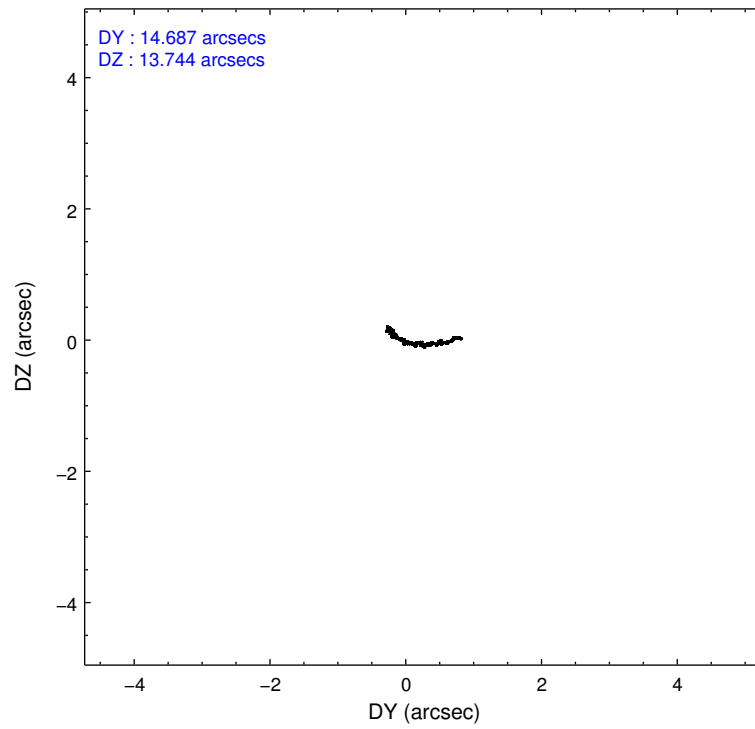
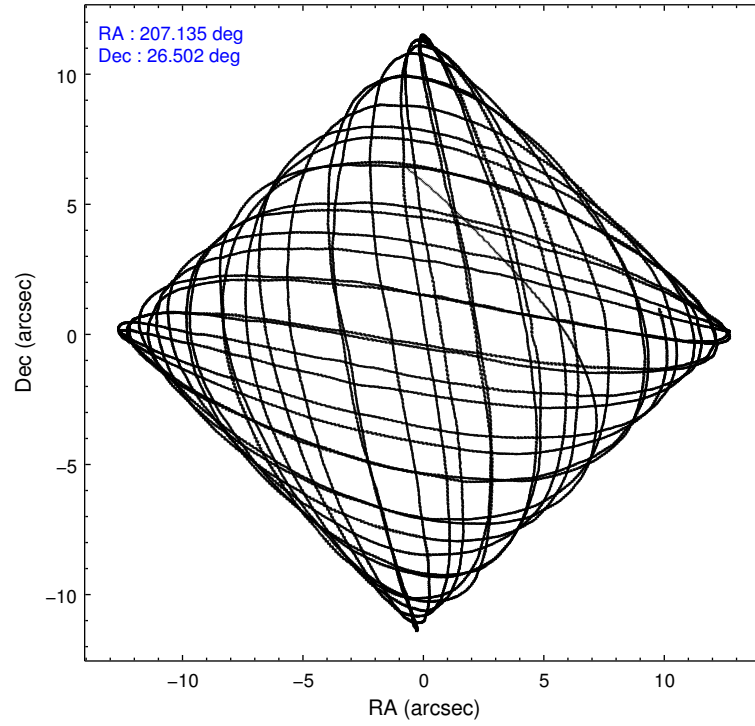
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	91895	160448	98507	97699	98691
rejected events	79377	79844	87290	86635	87457
rejected %	86%	49%	88%	88%	88%

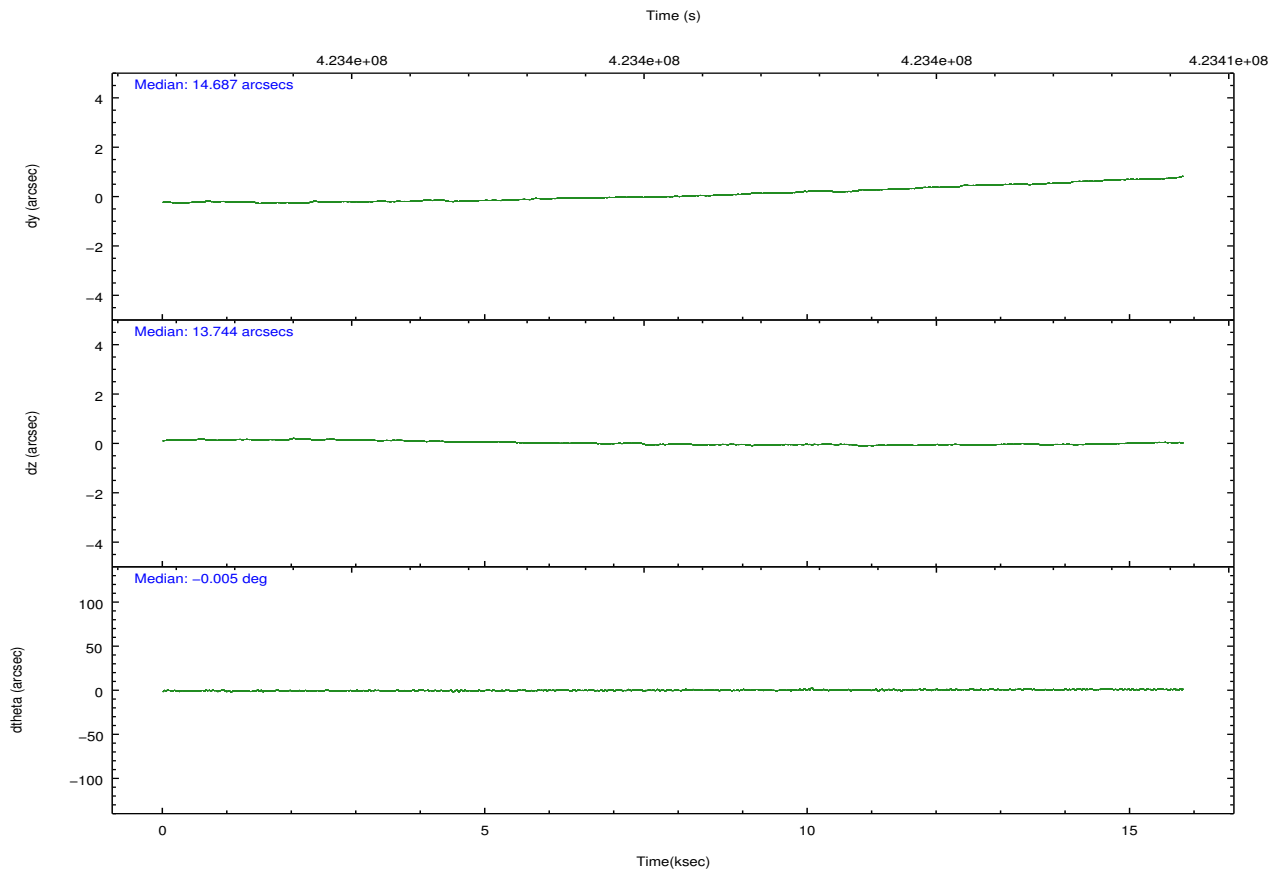
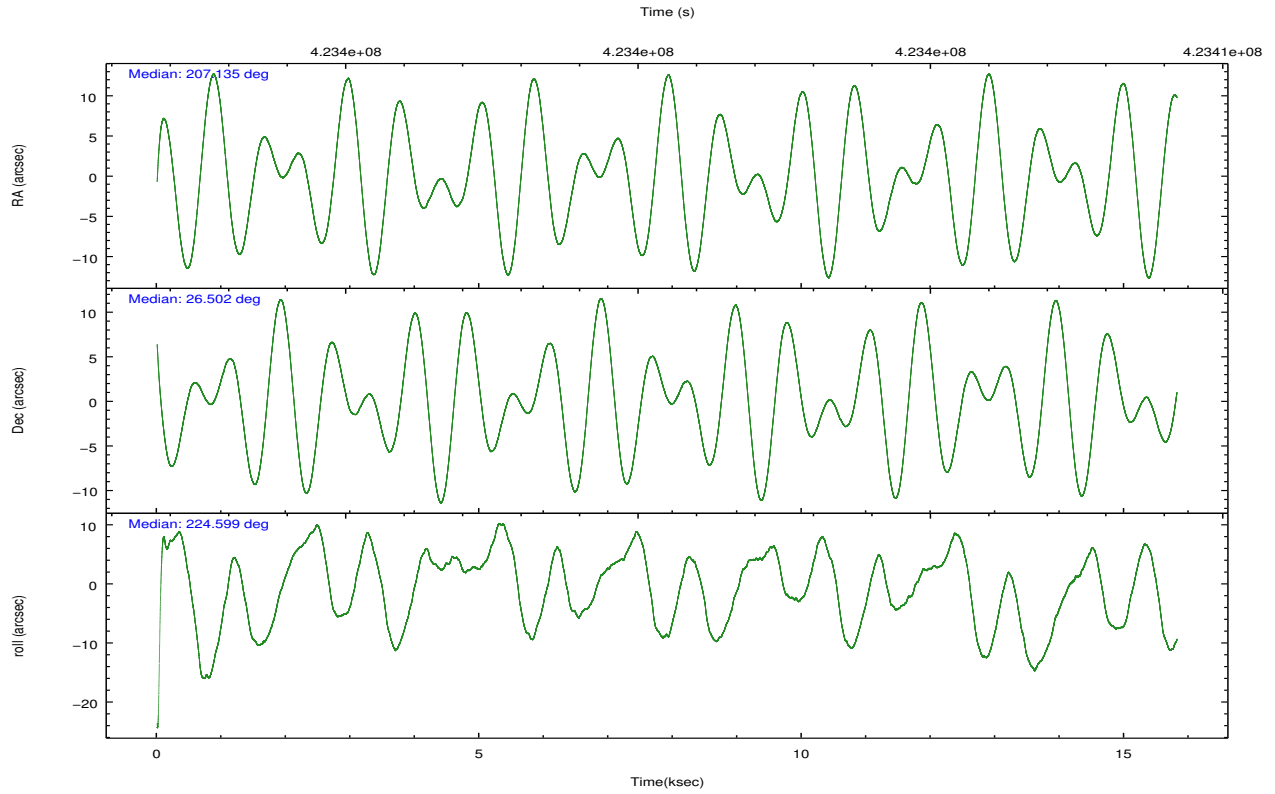
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5232	58642	4313	4340	3971
	5%	36%	4%	4%	4%
grade 1 events	54	315	66	57	51
	0%	0%	0%	0%	0%
grade 2 events	2800	10394	2566	2314	2523
	3%	6%	2%	2%	2%
grade 3 events	1184	3568	1153	1183	1170
	1%	2%	1%	1%	1%
grade 4 events	1119	3476	1180	1054	1134
	1%	2%	1%	1%	1%
grade 5 events	4070	4450	3860	4538	4426
	4%	2%	3%	4%	4%
grade 6 events	2187	4554	2013	2178	2440
	2%	2%	2%	2%	2%
grade 7 events	75249	75049	83356	82035	82976
	81%	46%	84%	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	207.143387	207.1353441469292	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.528104	26.50152029252396	Alternating exposures requested	N	N
[deg] Pointing Roll	224.387988	224.6002385569704	[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	-254.359963	-254.3657361129205			
[mm] SIM translation stage offset	20.7675	20.77328310999084			
[s] Observation start time (MET)	423393404.184000	423391464.30473			
Observation start date	2011-06-02T09:15:38	2011-06-02T08:44:24			
[s] Observation end time (MET)	423408404.184000	423409498.66817			
Observation end date	2011-06-02T13:25:38	2011-06-02T13:44:58			
Read mode	TIMED	TIMED			

2.3 Aspect



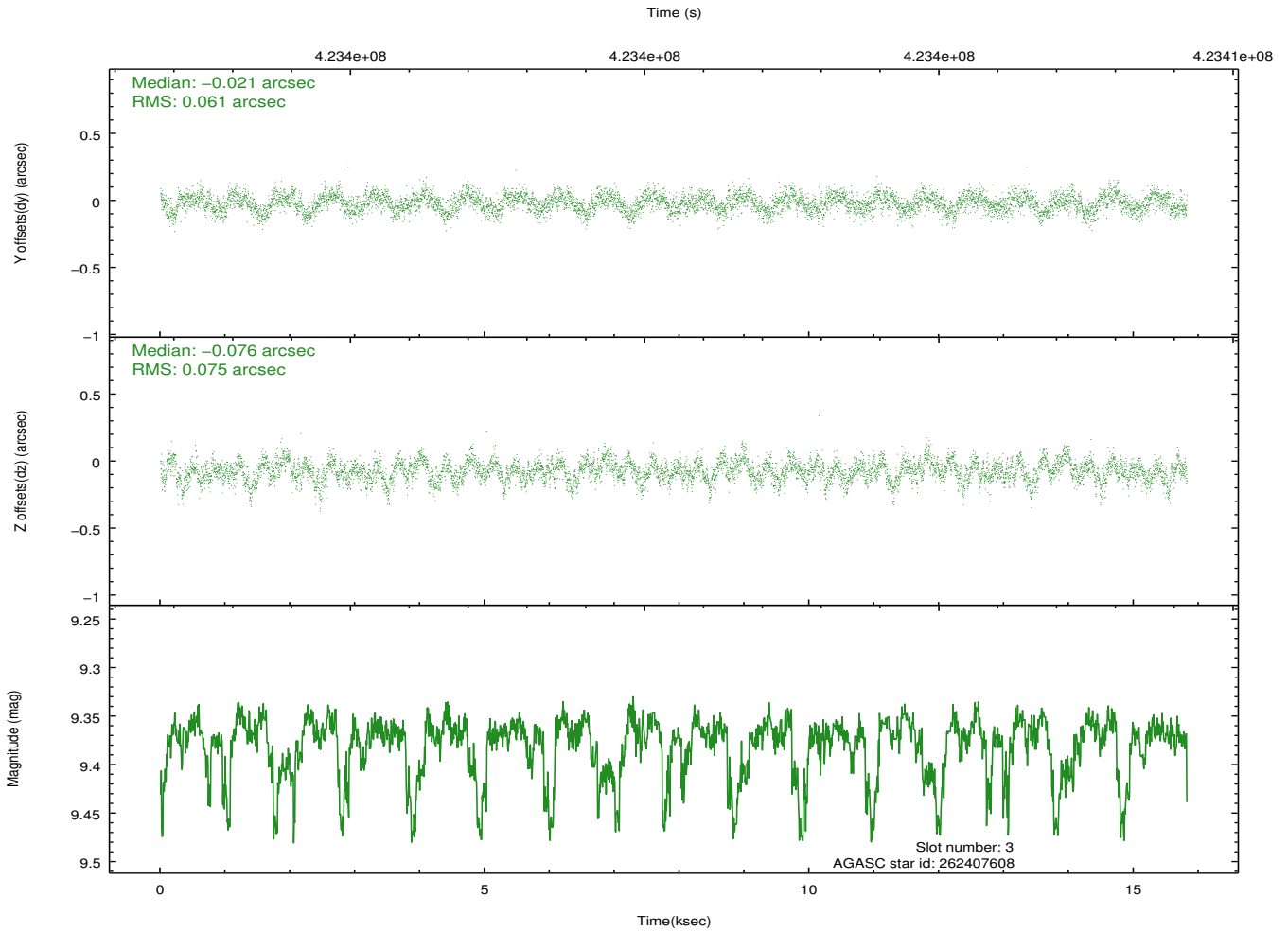
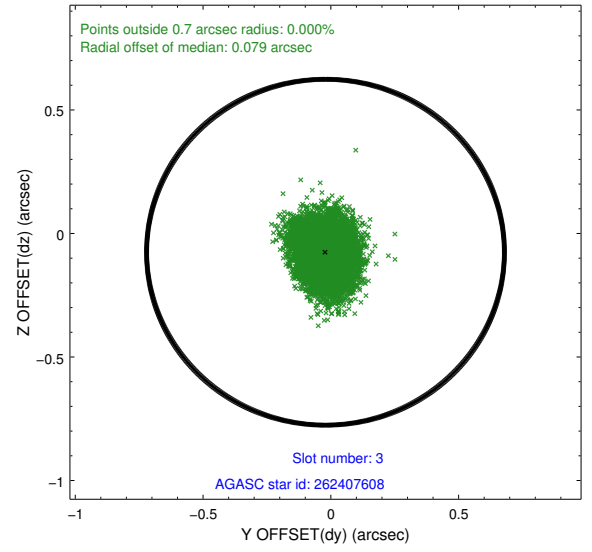
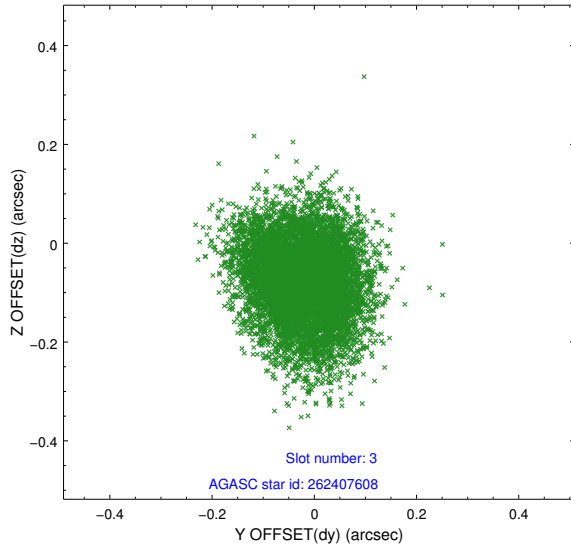


Slot Statistics

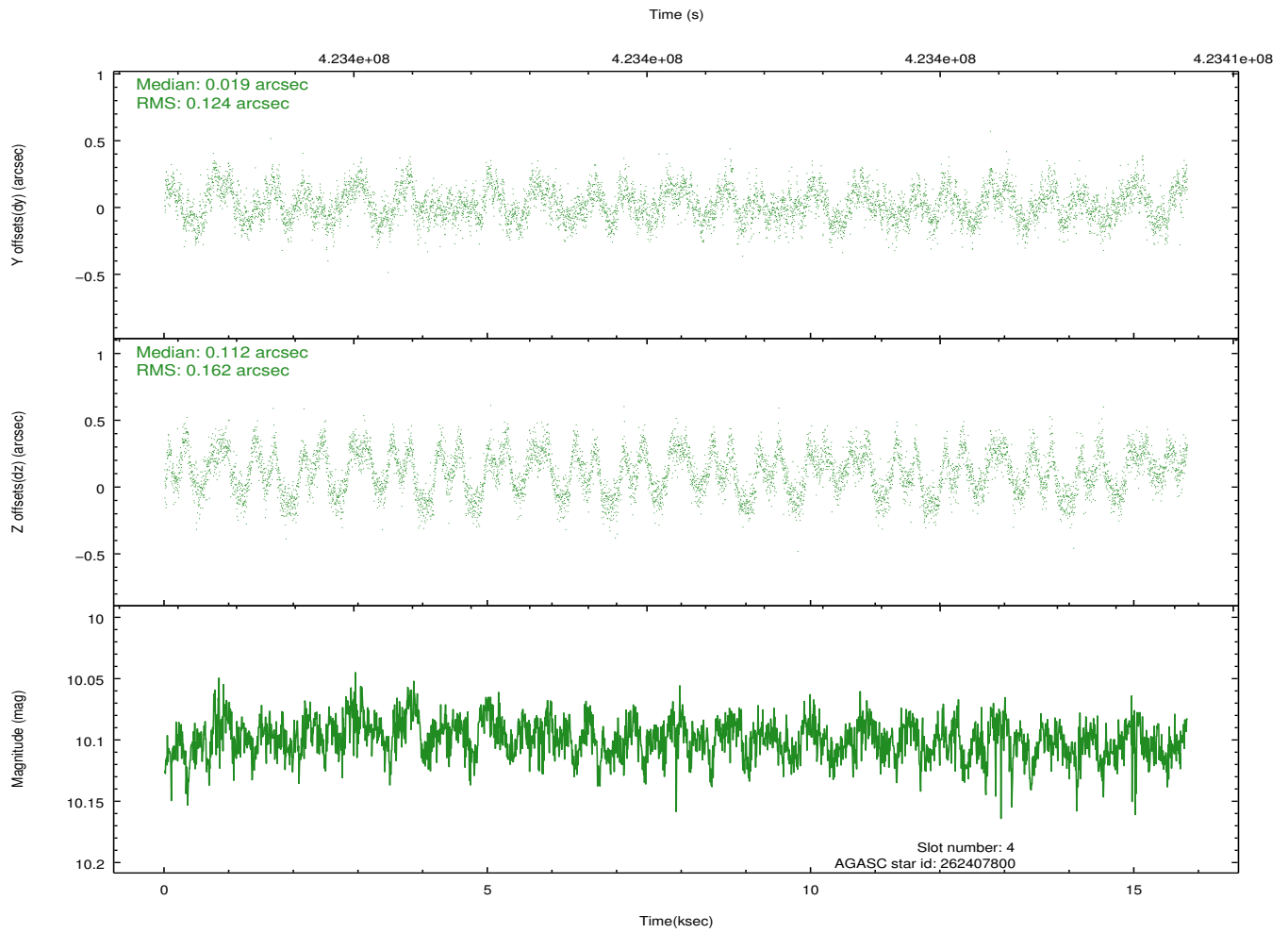
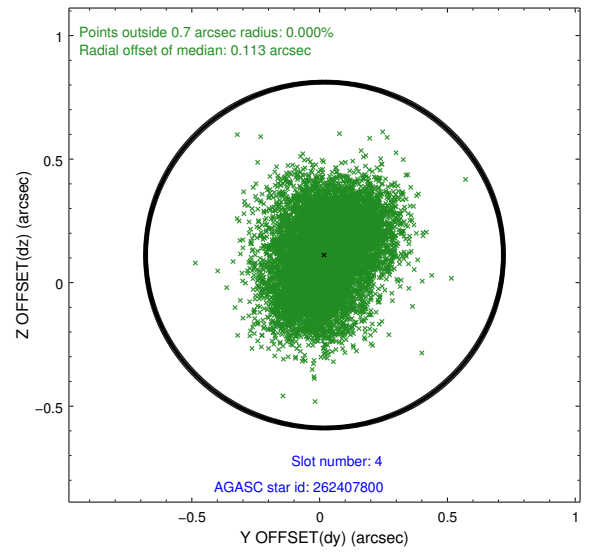
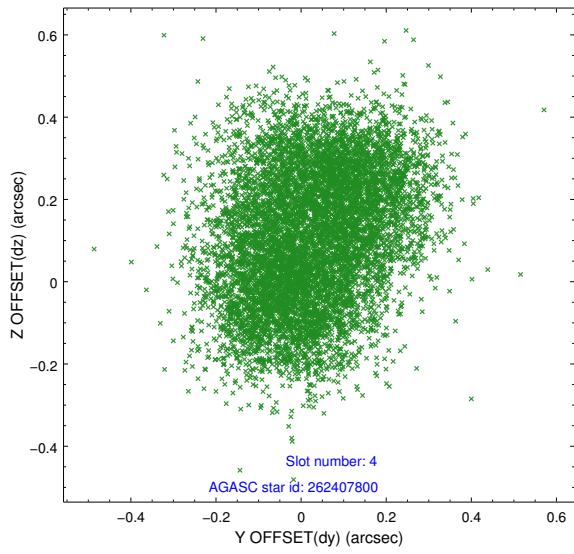
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.17	3858	-0.097	0.199	0.007	0.017	0.000000	0.000000	924.99	-410.25
1	FID	ACIS-I-5	7.07	3858	-0.053	-0.016	0.017	0.026	0.000000	0.000000	-1823.02	1486.84
2	FID	ACIS-I-6	7.04	3858	0.058	-0.115	0.016	0.025	0.000000	0.000000	390.25	2131.66
3	GUIDE	262407608	9.37	7680	-0.021	-0.076	0.103	0.167	207.378401	26.435507	-308.60	767.75
4	GUIDE	262407800	10.10	7702	0.019	0.112	0.223	0.333	207.321181	27.251762	-2227.28	-1465.07
5	GUIDE	262408096	9.35	7713	-0.001	0.066	0.111	0.176	207.011678	26.515421	335.06	-264.81
6	GUIDE	262408936	9.66	7705	0.097	-0.020	0.171	0.257	207.154731	26.726554	-525.51	-484.82
7	GUIDE	262411960	9.66	7707	-0.106	-0.092	0.147	0.233	207.327895	25.881727	1200.36	2080.55

2.4 Star Slots

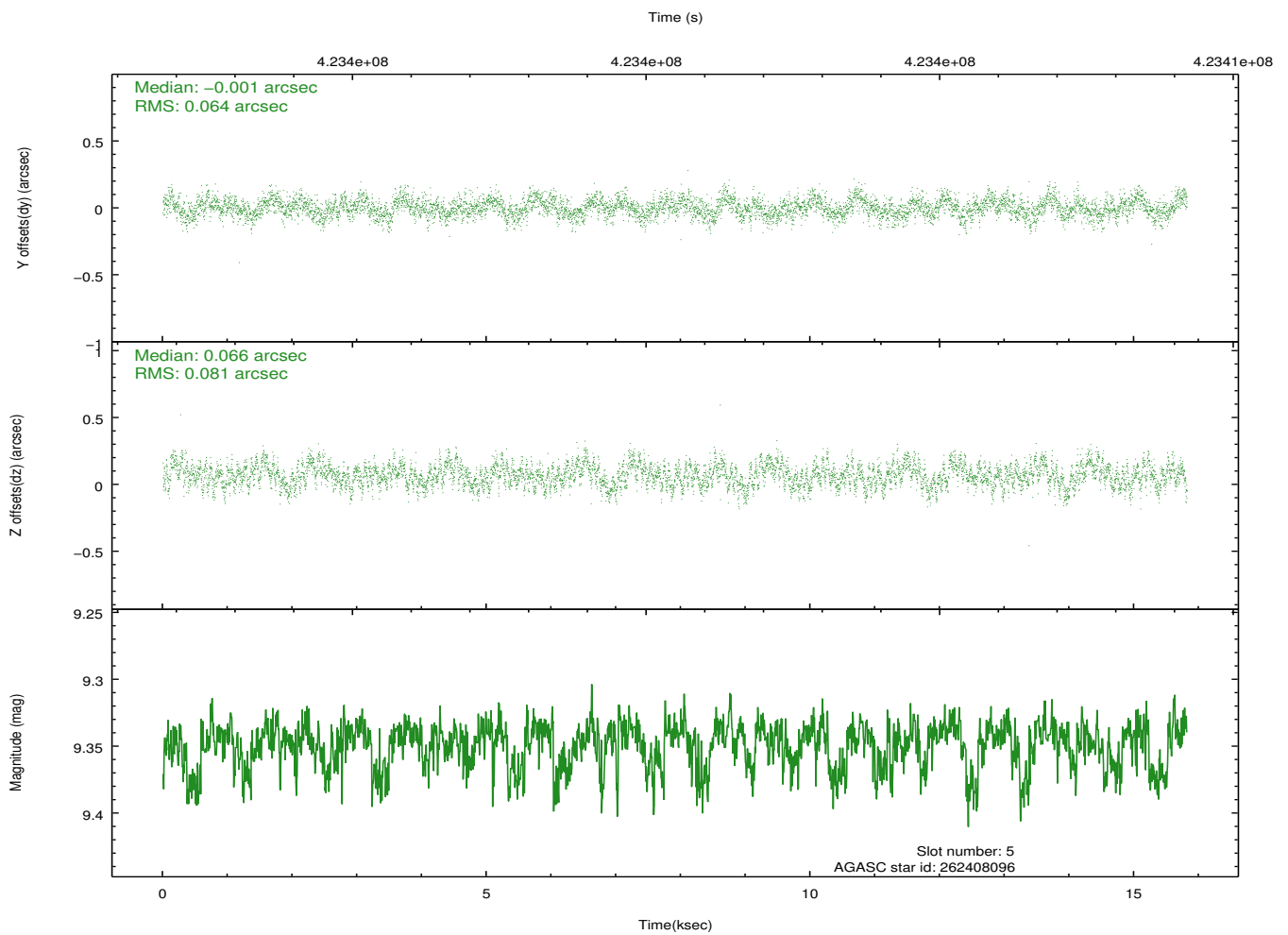
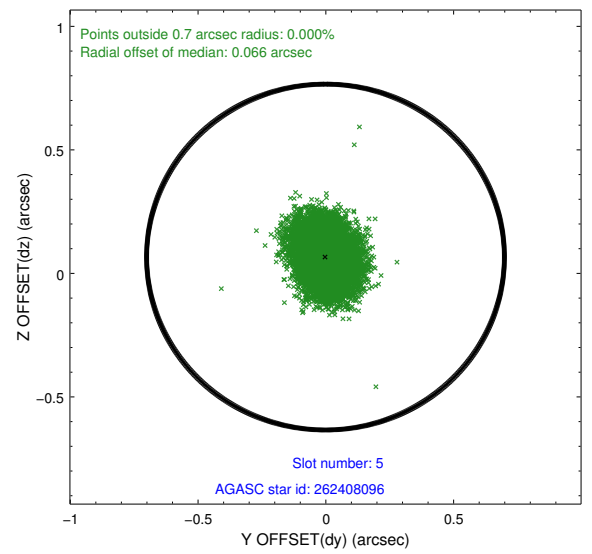
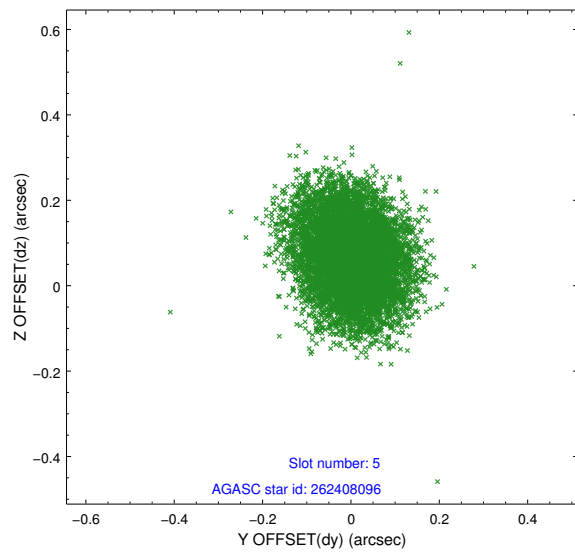
2.4.1 Slot 3



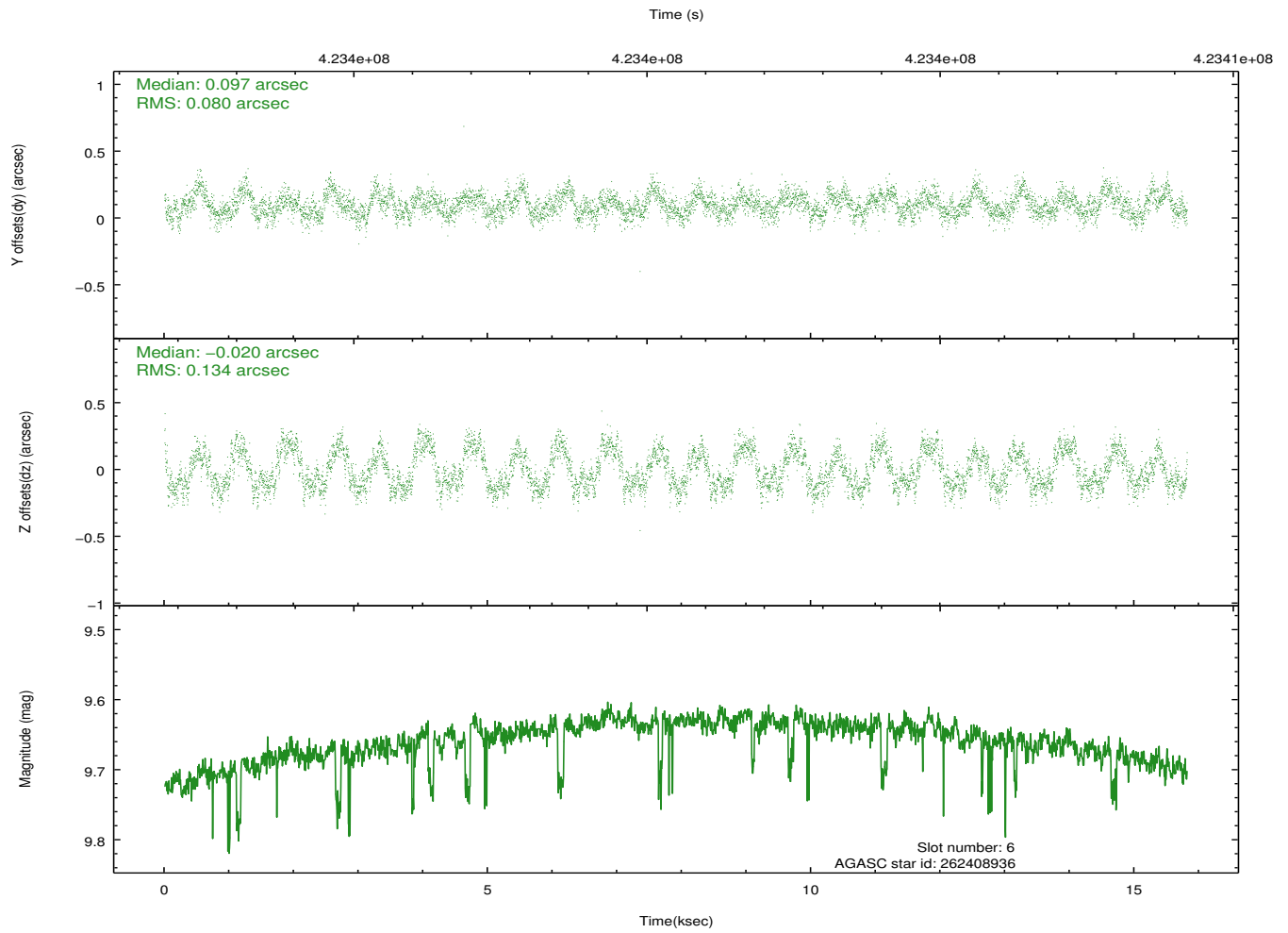
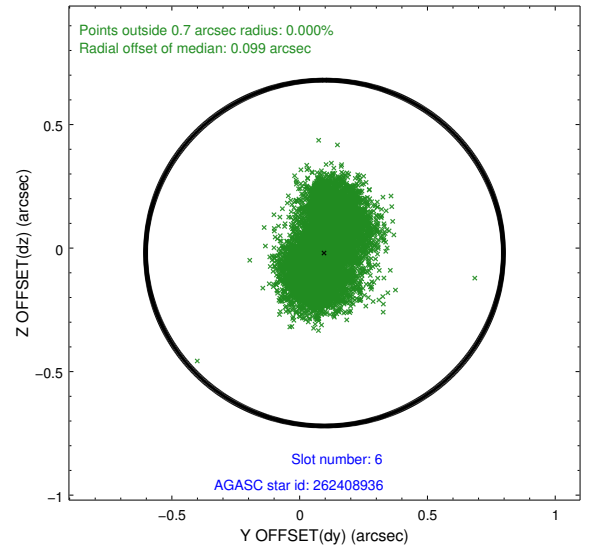
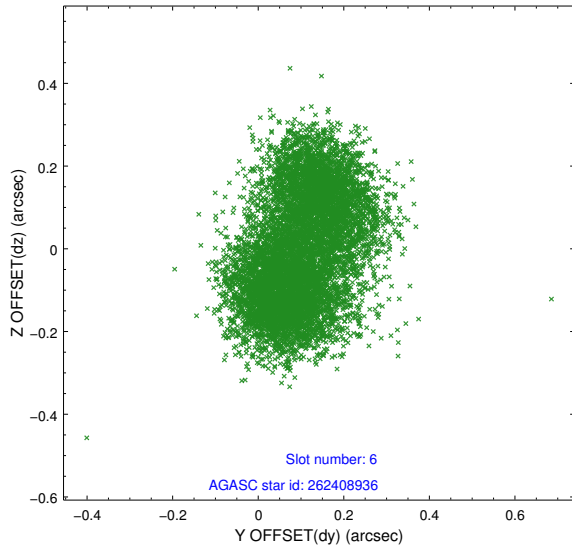
2.4.2 Slot 4



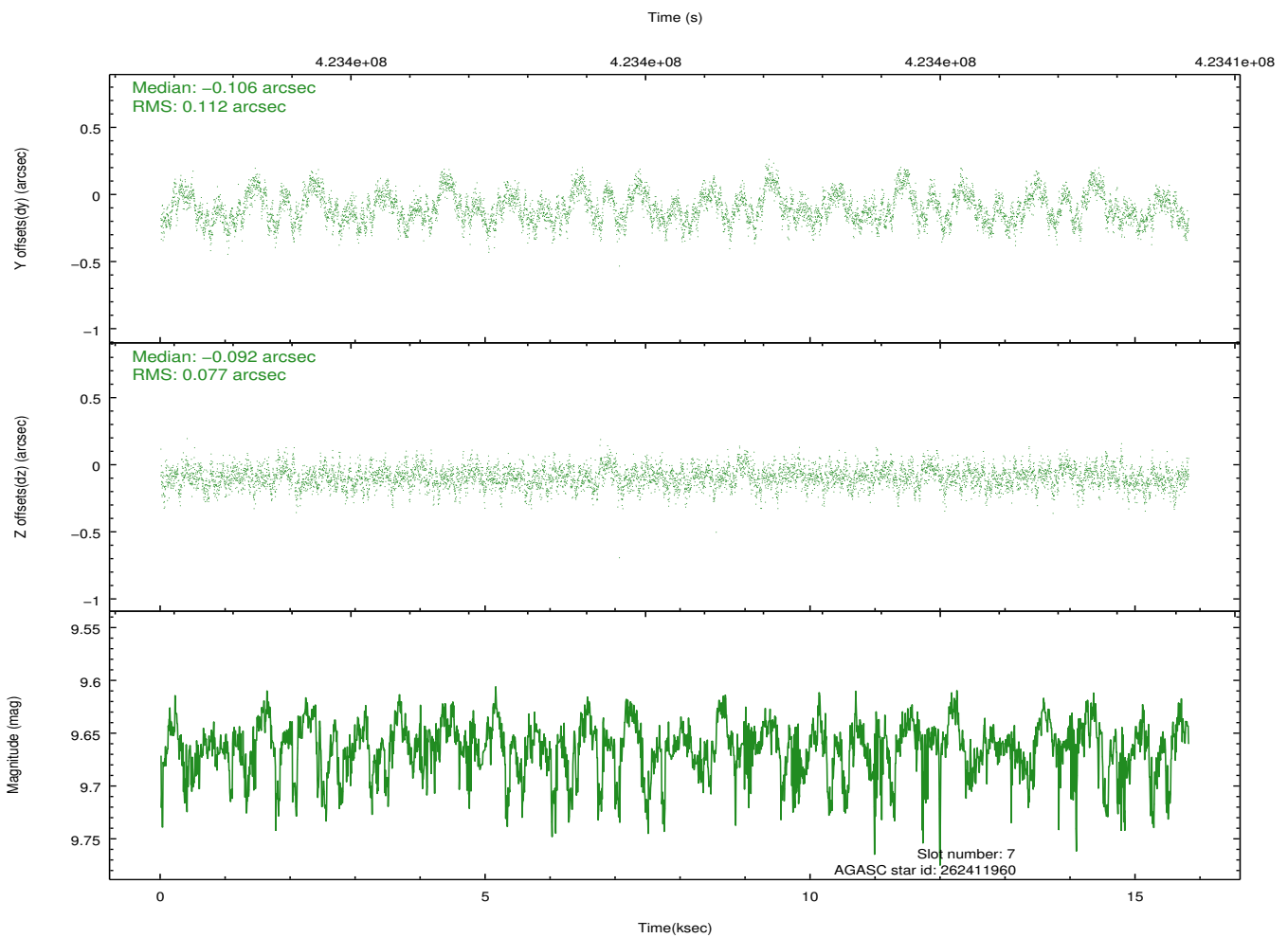
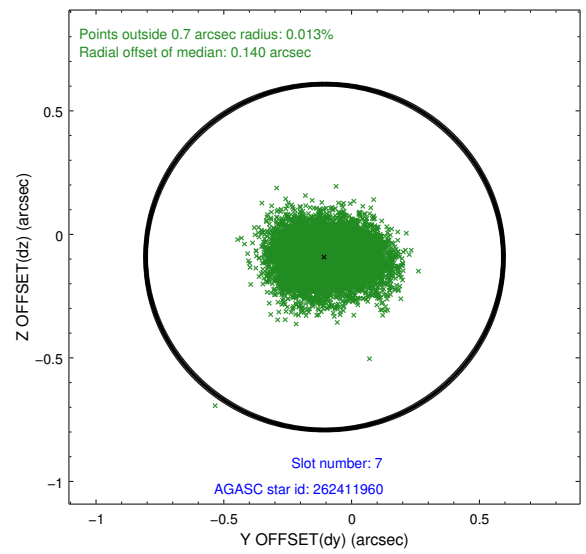
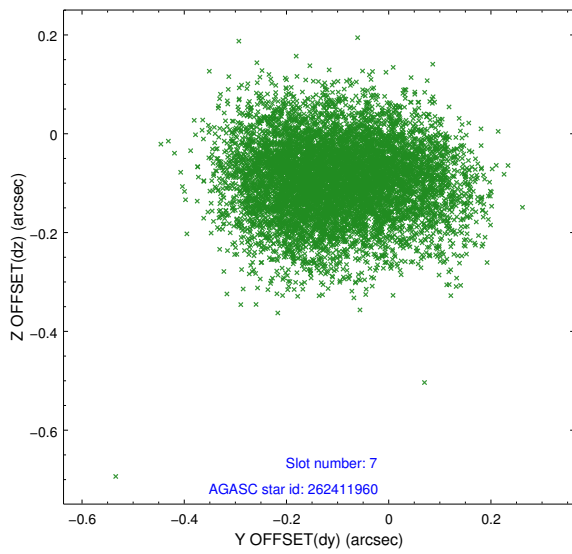
2.4.3 Slot 5



2.4.4 Slot 6

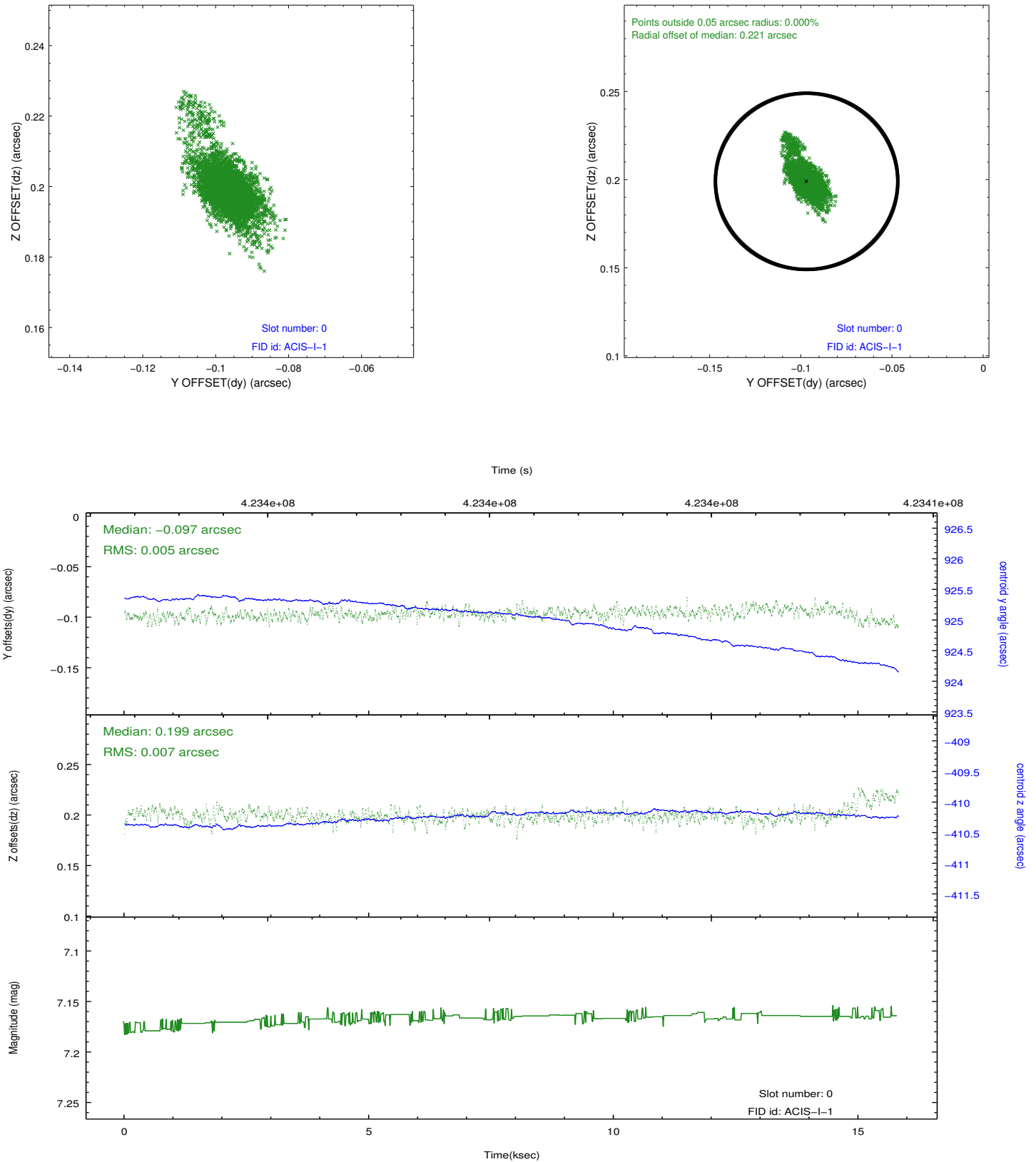


2.4.5 Slot 7

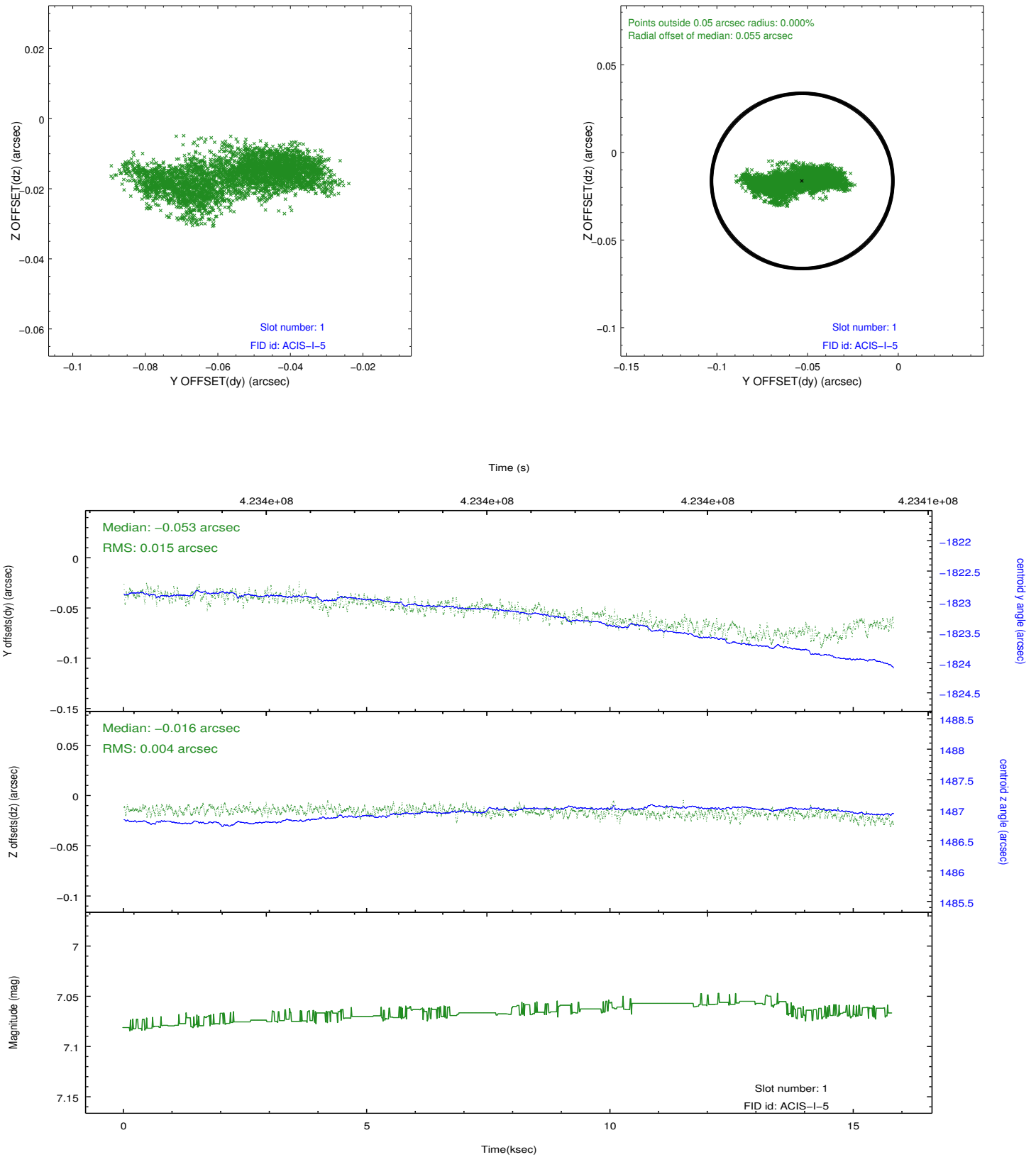


2.5 FID Slots

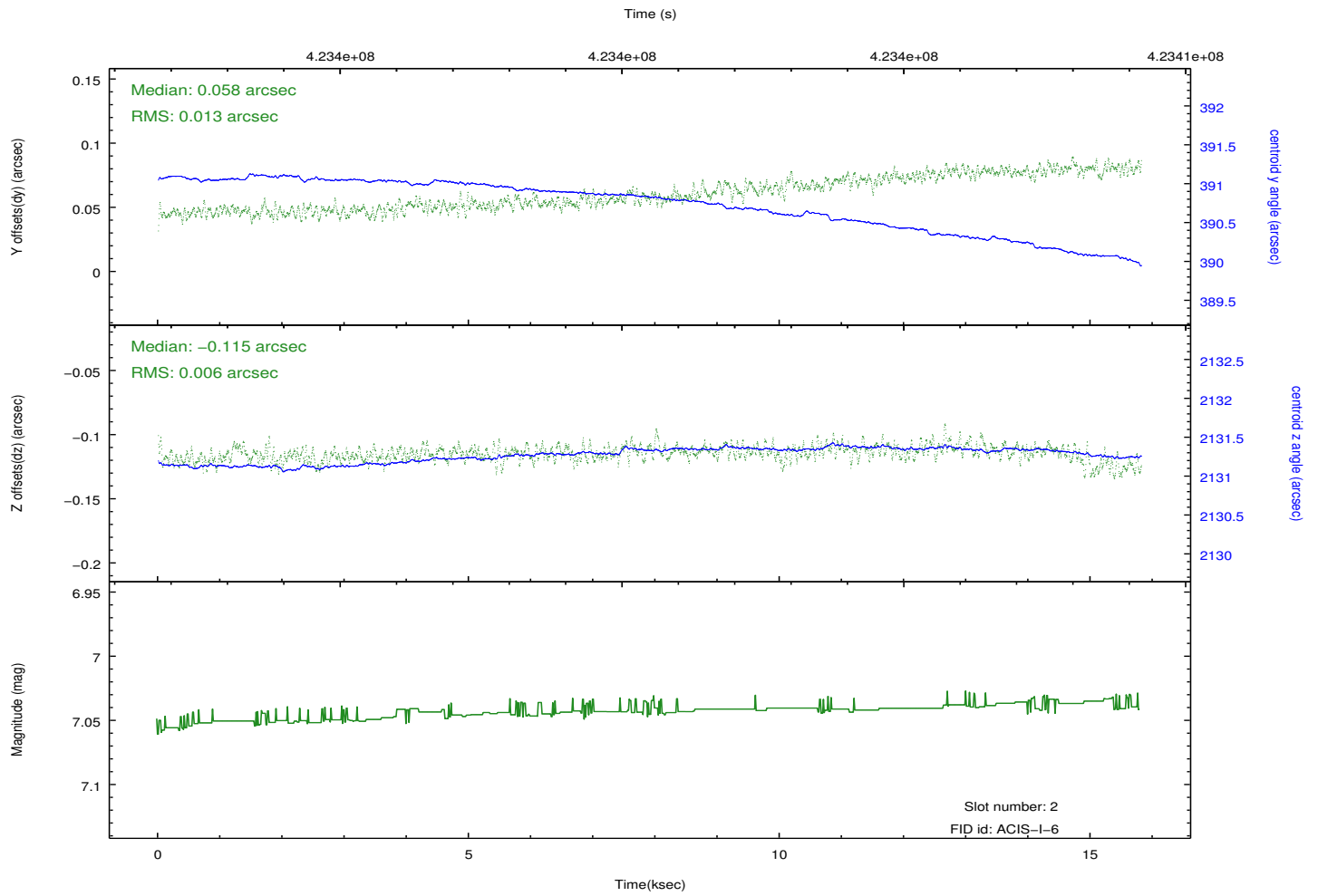
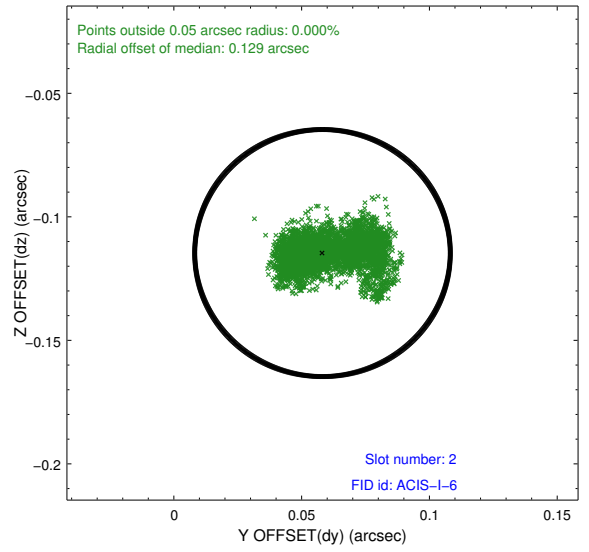
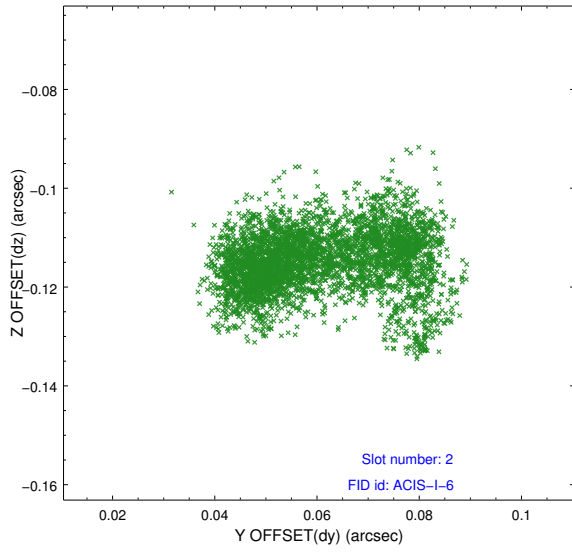
2.5.1 Slot 0



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)	2012.02.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.053140761197

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.