

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12174 - L2 Version 2
Chandra X-Ray Center

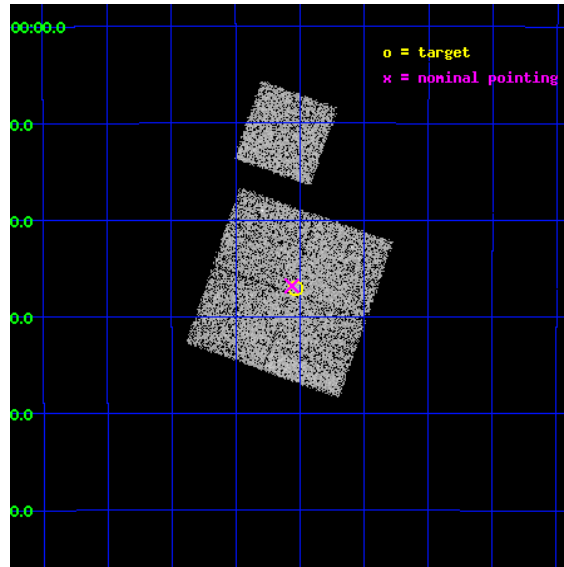
L2 Processing Date : Feb 6 2012

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1 Front

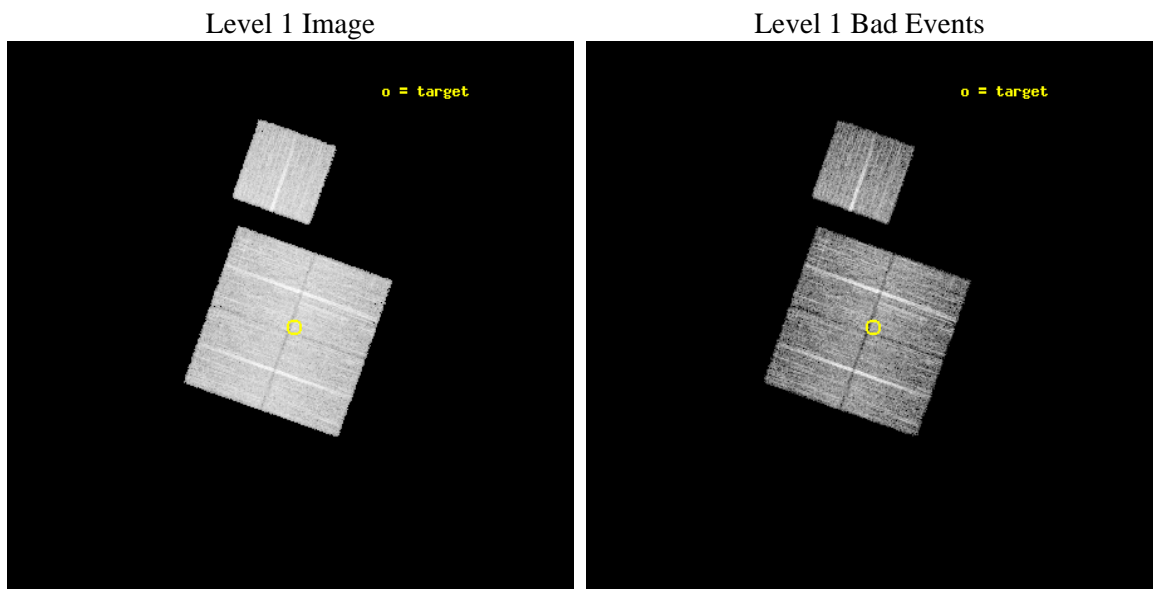
seq_num	800940	Sequence number
obs_id	12174	Observation id
title	CLoGS I. - A Complete Local-volume Group Survey	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	LGG310	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	192.883333	Observer's specified target RA [deg]
dec_targ	-26.451667	Observer's specified target Dec [deg]
ra_nom	192.89059065654	Nominal RA [deg]
dec_nom	-26.446824314904	Nominal Dec [deg]
roll_nom	19.430039046002	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10051.968182802	Sum of GTIs [s]
livetime	9920.6318183426	Livetime [s]
ontime0	10051.845062792	Sum of GTIs [s]
ontime1	10051.886102796	Sum of GTIs [s]
ontime2	10051.927142799	Sum of GTIs [s]
ontime3	10051.968182802	Sum of GTIs [s]
ontime6	10051.804022789	Sum of GTIs [s]
l2events	33005	Number of level 2 events



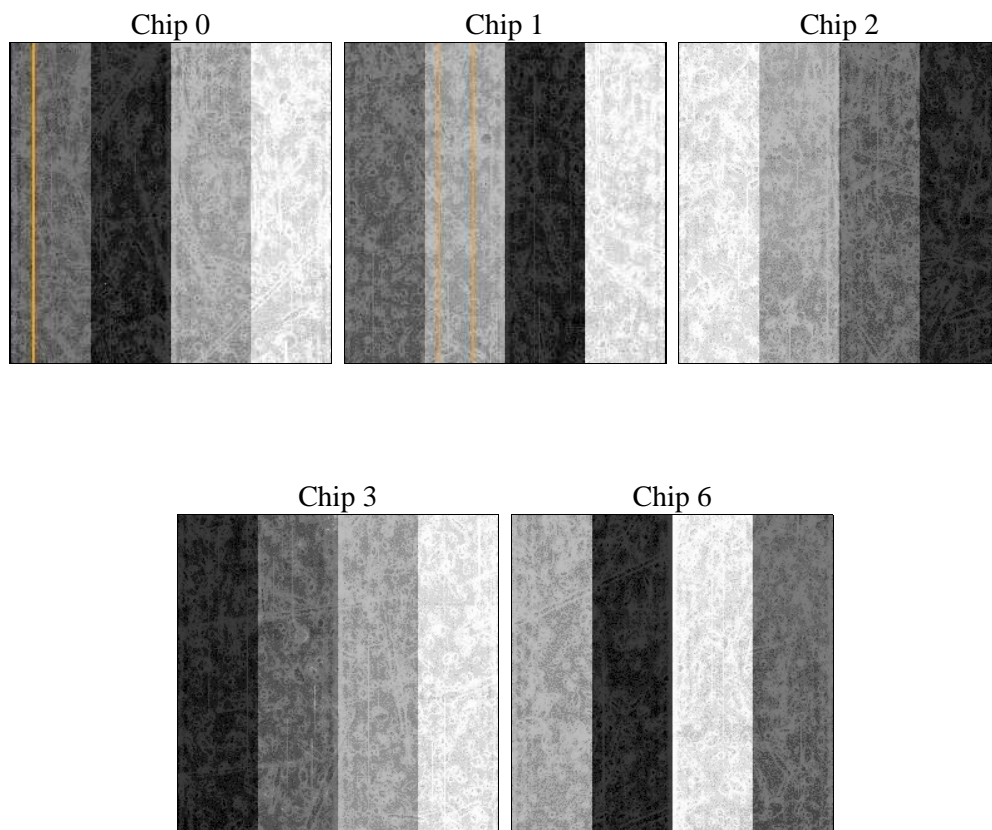
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10051.968182802	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	10051.845062792	Sum of GTIs [s]
date	2012-02-06T21:40:49	Date and time of file creation	ontime1	10051.886102796	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10051.927142799	Sum of GTIs [s]
			ontime3	10051.968182802	Sum of GTIs [s]
			ontime6	10051.804022789	Sum of GTIs [s]
			l1events	328718	Number of level 1 events

2.1.4 Events

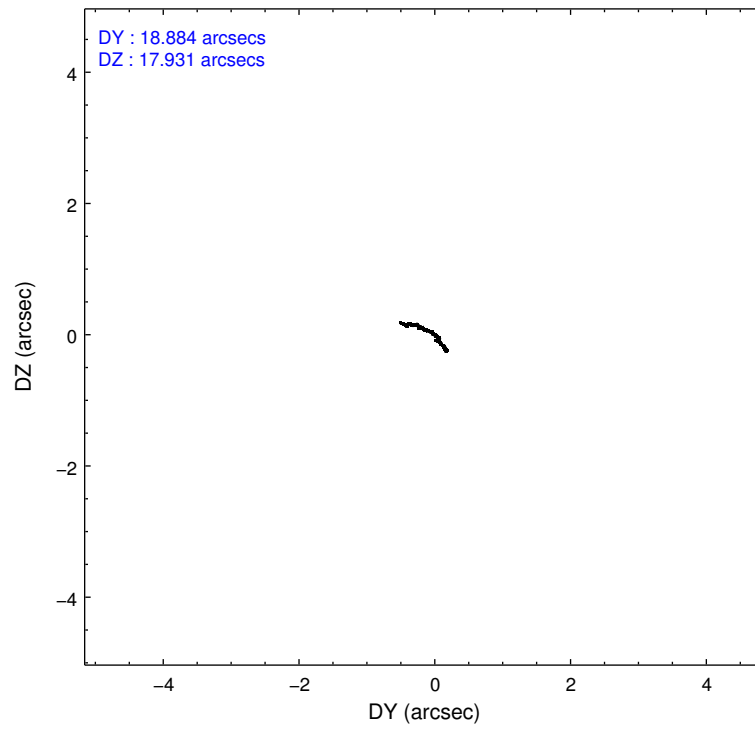
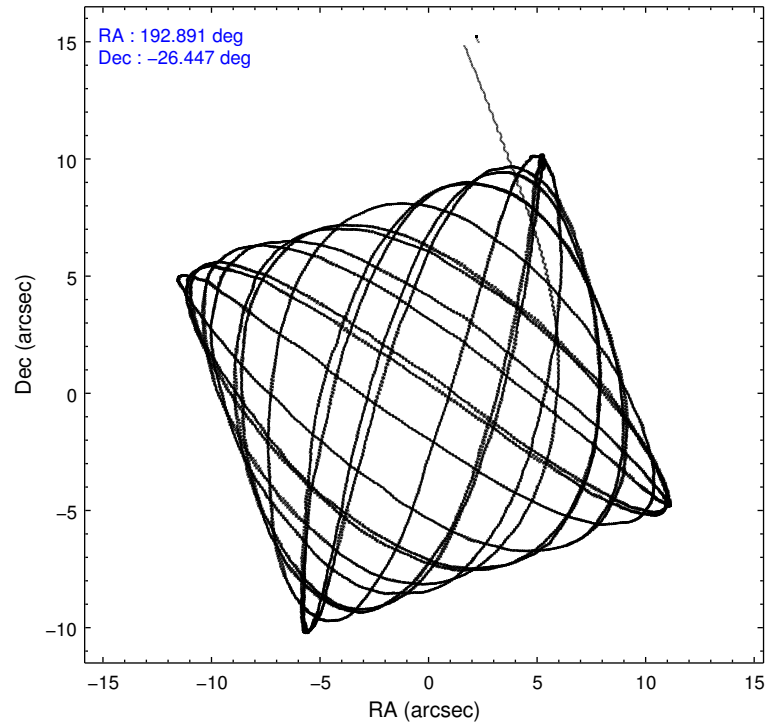
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	62097	63941	68662	67037	66981
rejected events	54327	55443	60907	59676	59226
rejected %	87%	86%	88%	89%	88%

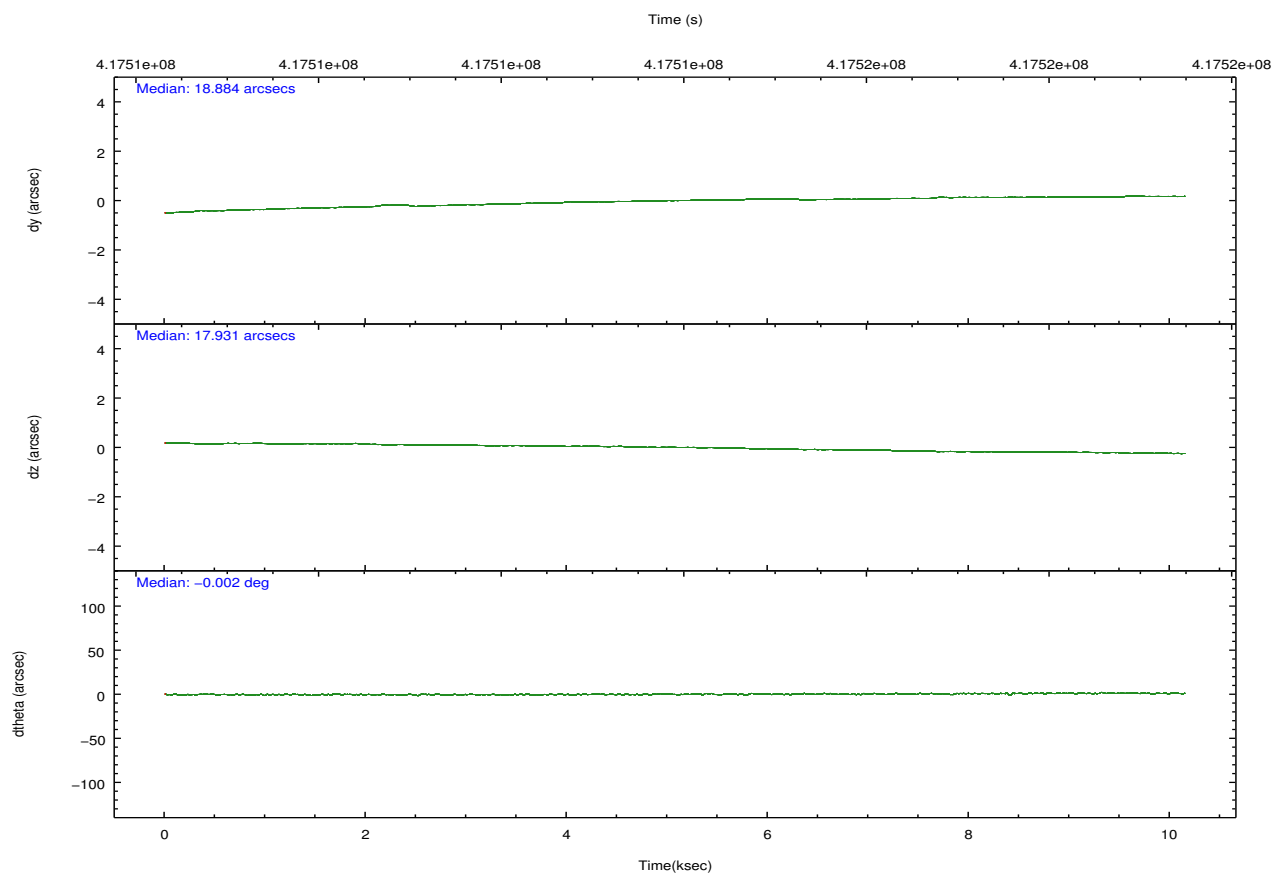
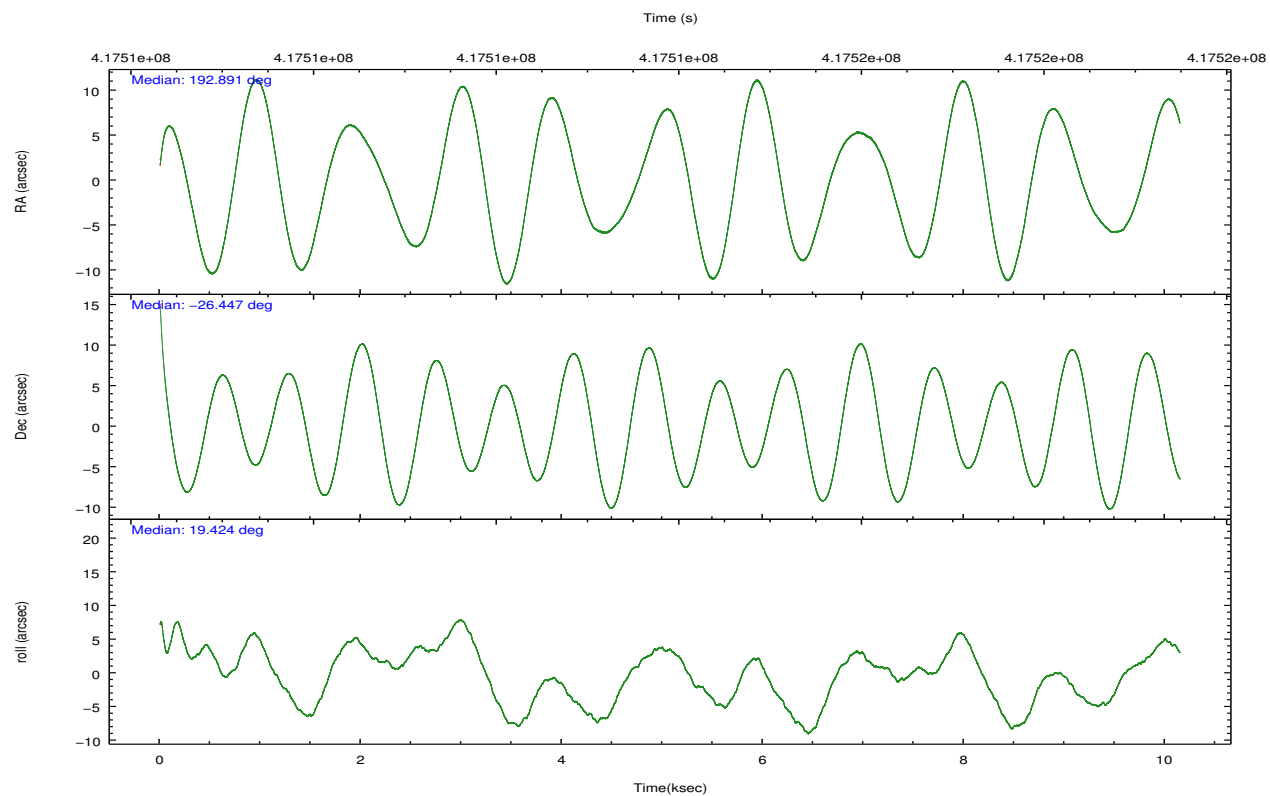
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2727	3078	2901	2609	2715
	4%	4%	4%	3%	4%
grade 1 events	37	41	43	46	28
	0%	0%	0%	0%	0%
grade 2 events	1925	1988	1844	1634	1674
	3%	3%	2%	2%	2%
grade 3 events	847	884	818	770	824
	1%	1%	1%	1%	1%
grade 4 events	732	859	792	790	805
	1%	1%	1%	1%	1%
grade 5 events	2867	3068	2761	3232	3124
	4%	4%	4%	4%	4%
grade 6 events	1542	1696	1409	1560	1744
	2%	2%	2%	2%	2%
grade 7 events	51420	52327	58094	56396	56067
	82%	81%	84%	84%	83%

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	192.870680	192.8905906565371	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.467794	-26.44682431490377	Alternating exposures requested	N	N
[deg] Pointing Roll	19.212470	19.43003904600206	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	417508988.184000	417507903.52433			
Observation start date	2011-03-26T06:42:02	2011-03-26T06:25:03			
[s] Observation end time (MET)	417518988.184000	417519836.06245			
Observation end date	2011-03-26T09:28:42	2011-03-26T09:43:56			
Read mode	TIMED	TIMED			

2.3 Aspect



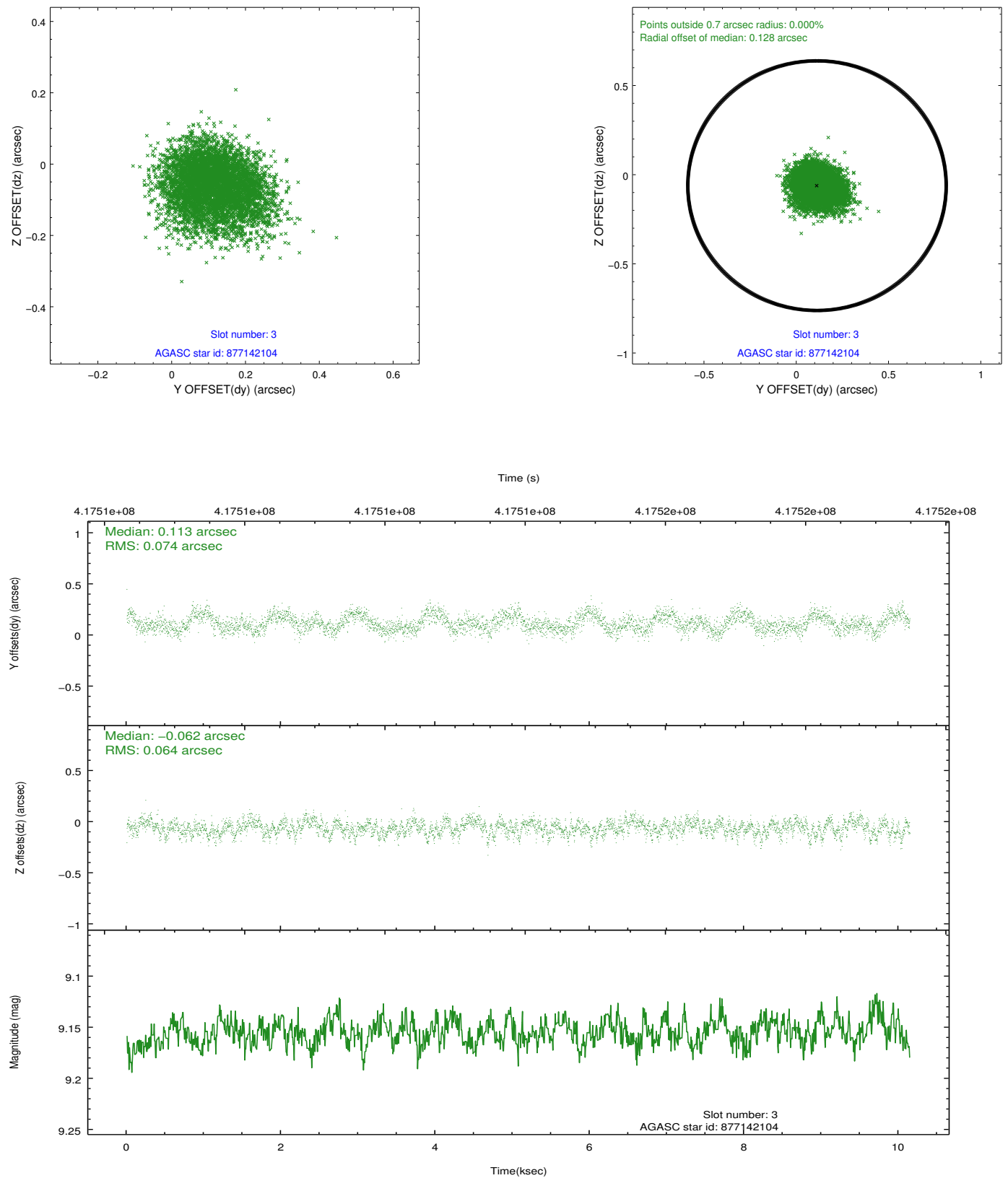


Slot Statistics

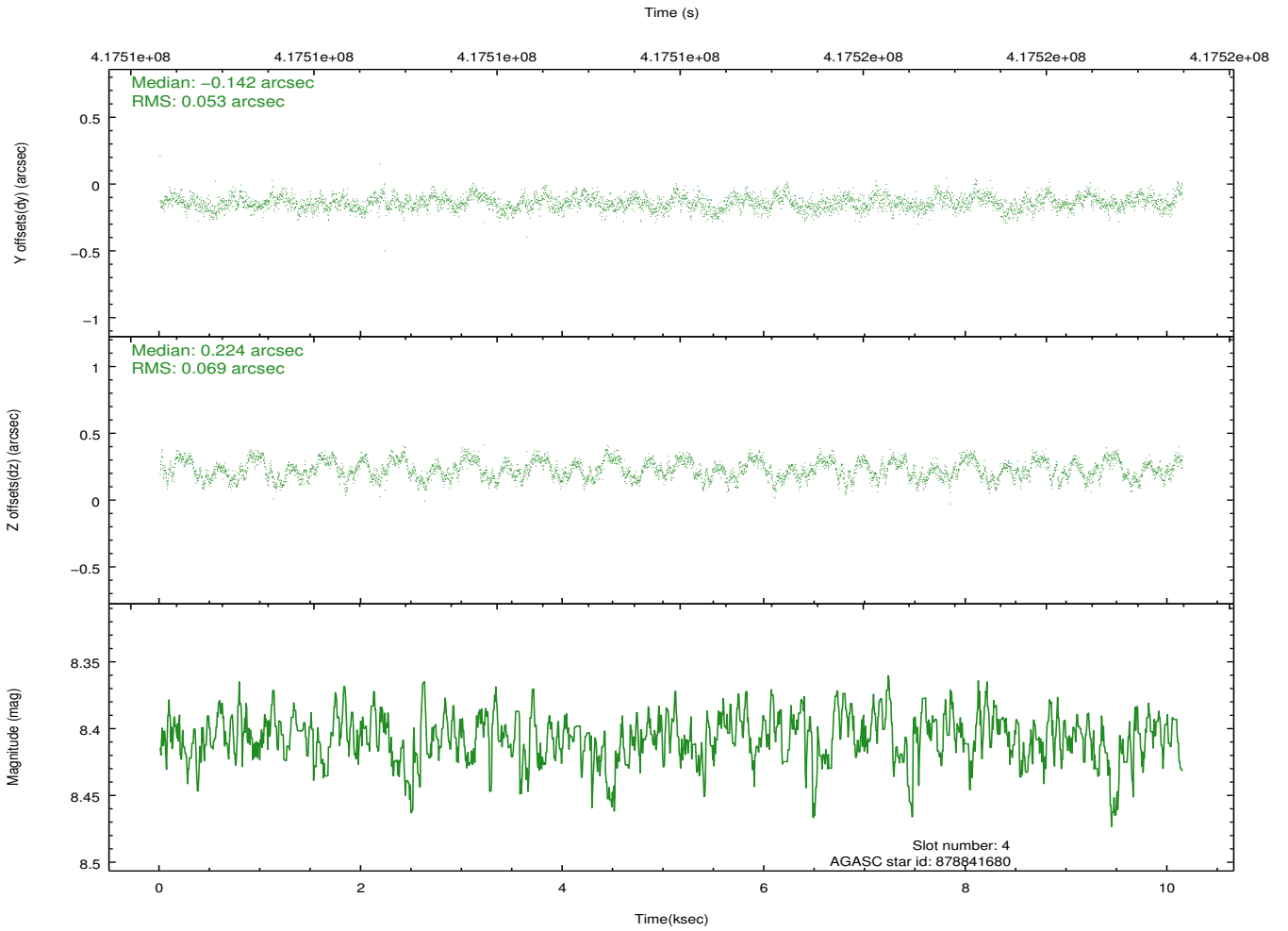
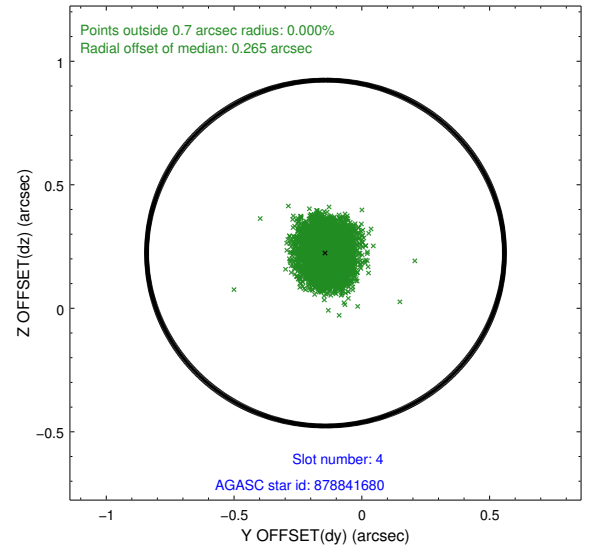
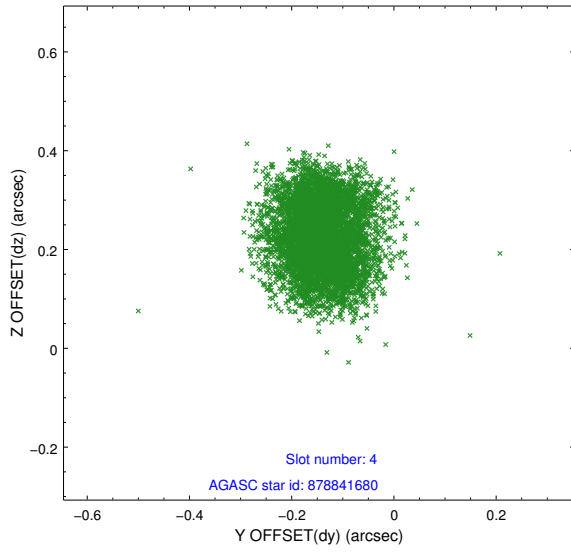
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	2475	0.051	0.022	0.010	0.018	0.000000	0.000000	920.58	-841.56
1	FID	ACIS-I-5	6.98	2475	-0.239	0.057	0.008	0.013	0.000000	0.000000	-1827.54	1055.69
2	FID	ACIS-I-6	7.01	2475	0.096	-0.008	0.008	0.012	0.000000	0.000000	385.59	1700.73
3	GUIDE	877142104	9.16	4948	0.113	-0.062	0.105	0.165	192.316683	-26.527205	-1756.38	381.49
4	GUIDE	878841680	8.41	4945	-0.142	0.224	0.095	0.144	193.031066	-26.461482	494.10	-149.73
5	GUIDE	878842496	8.91	4950	0.161	-0.022	0.094	0.150	192.769111	-26.451473	-290.12	163.56
6	GUIDE	878320032	9.18	4928	-0.035	-0.282	0.112	0.179	192.907446	-25.832351	864.84	2120.98
7	GUIDE	878844176	9.58	4944	-0.101	0.141	0.118	0.190	193.334899	-26.697179	1138.17	-1273.32

2.4 Star Slots

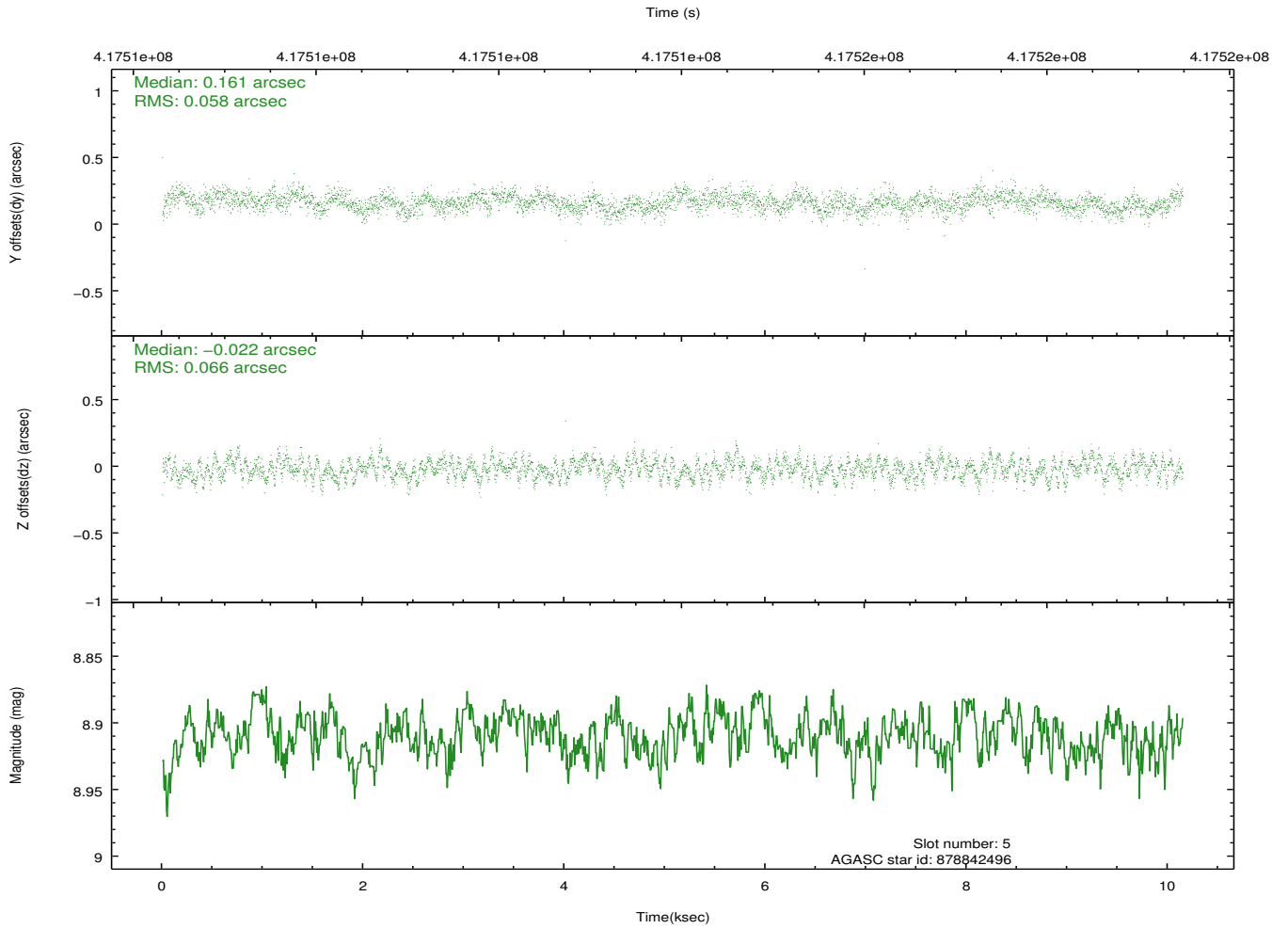
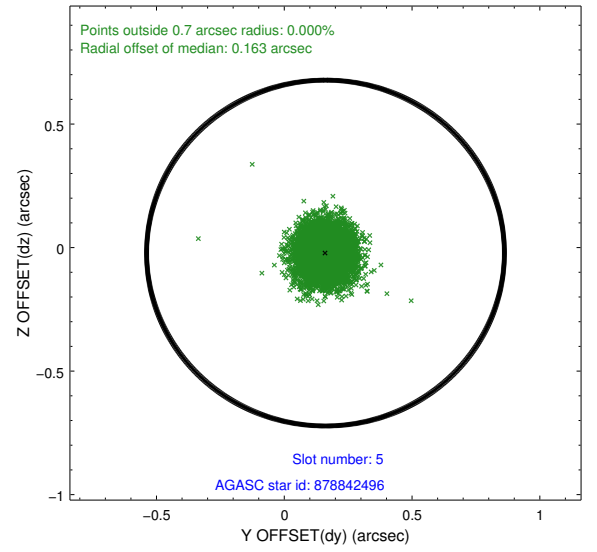
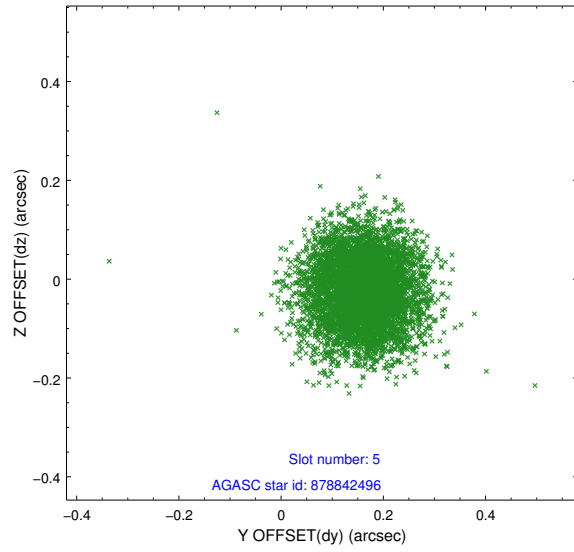
2.4.1 Slot 3



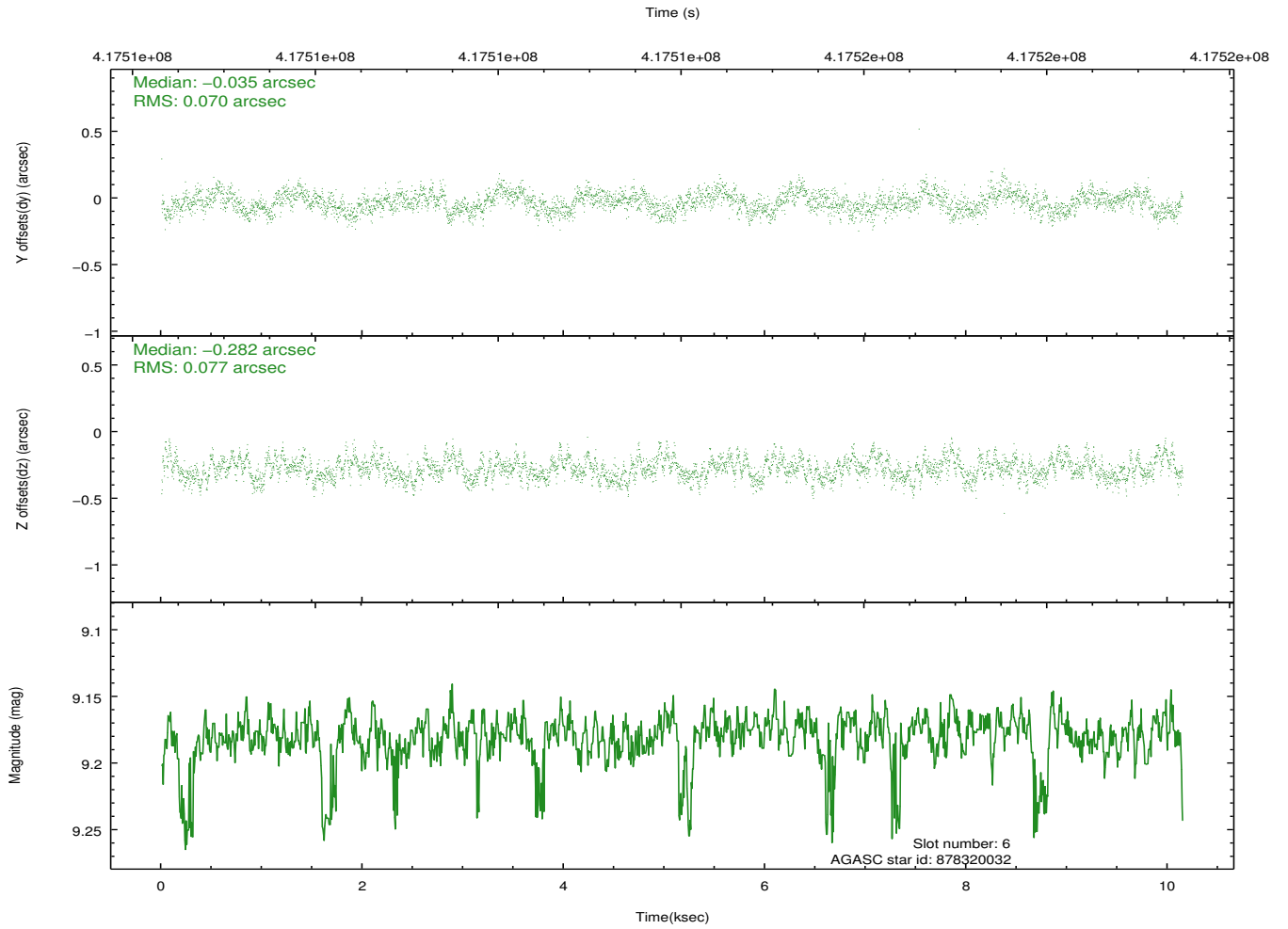
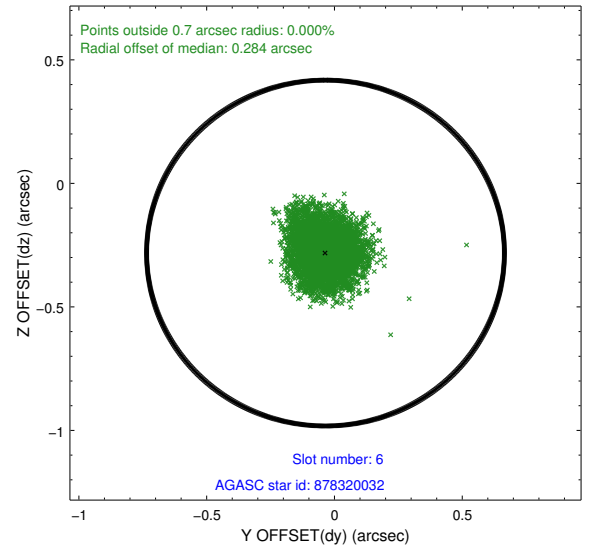
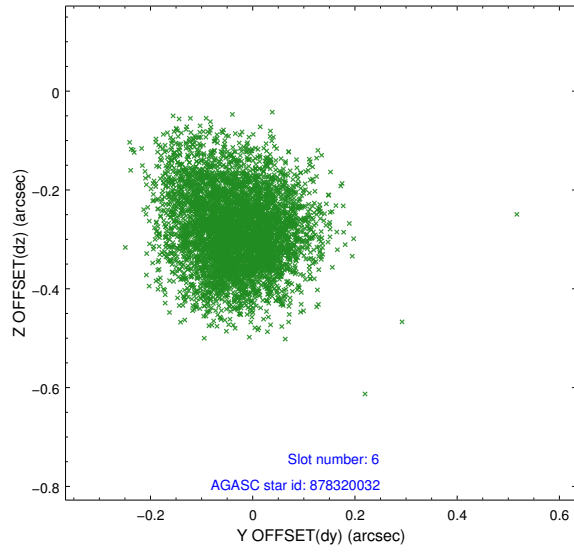
2.4.2 Slot 4



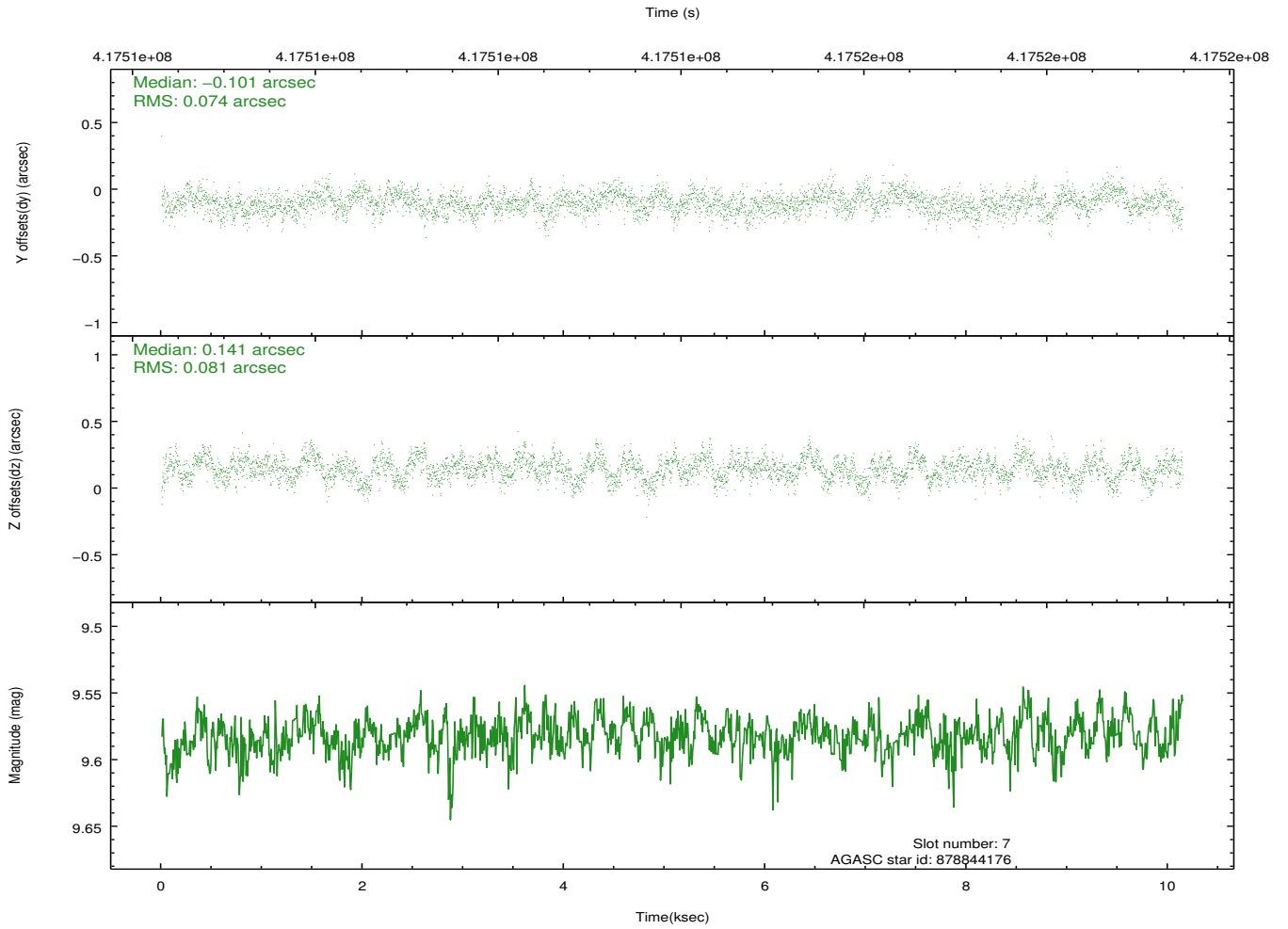
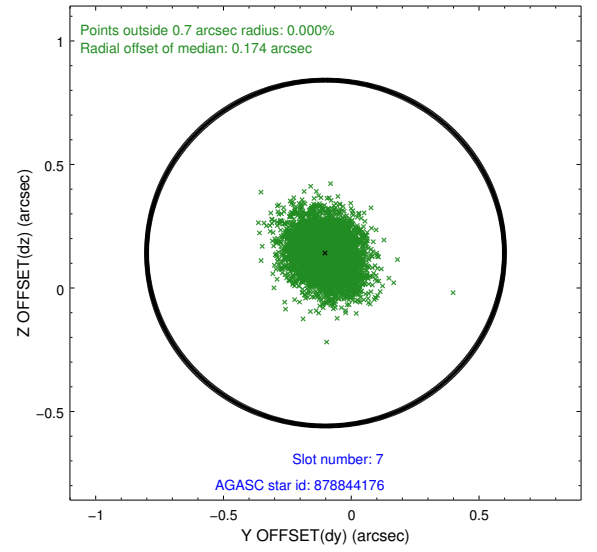
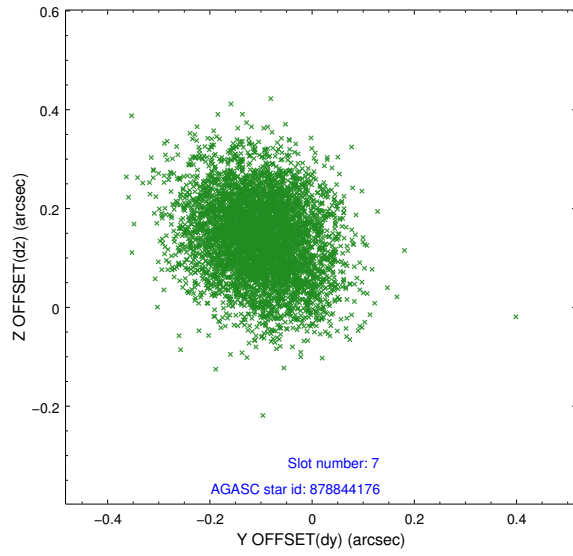
2.4.3 Slot 5



2.4.4 Slot 6

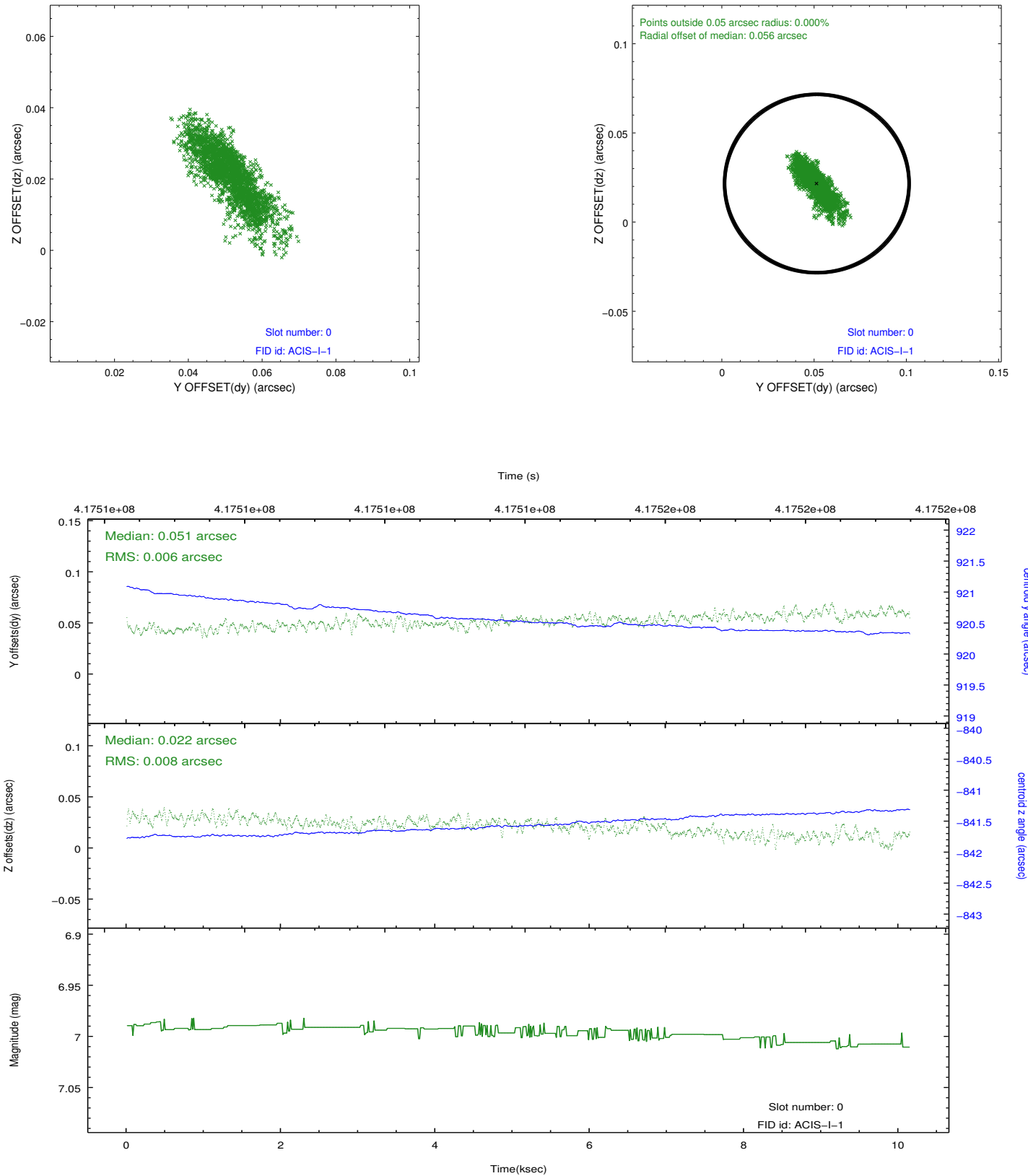


2.4.5 Slot 7

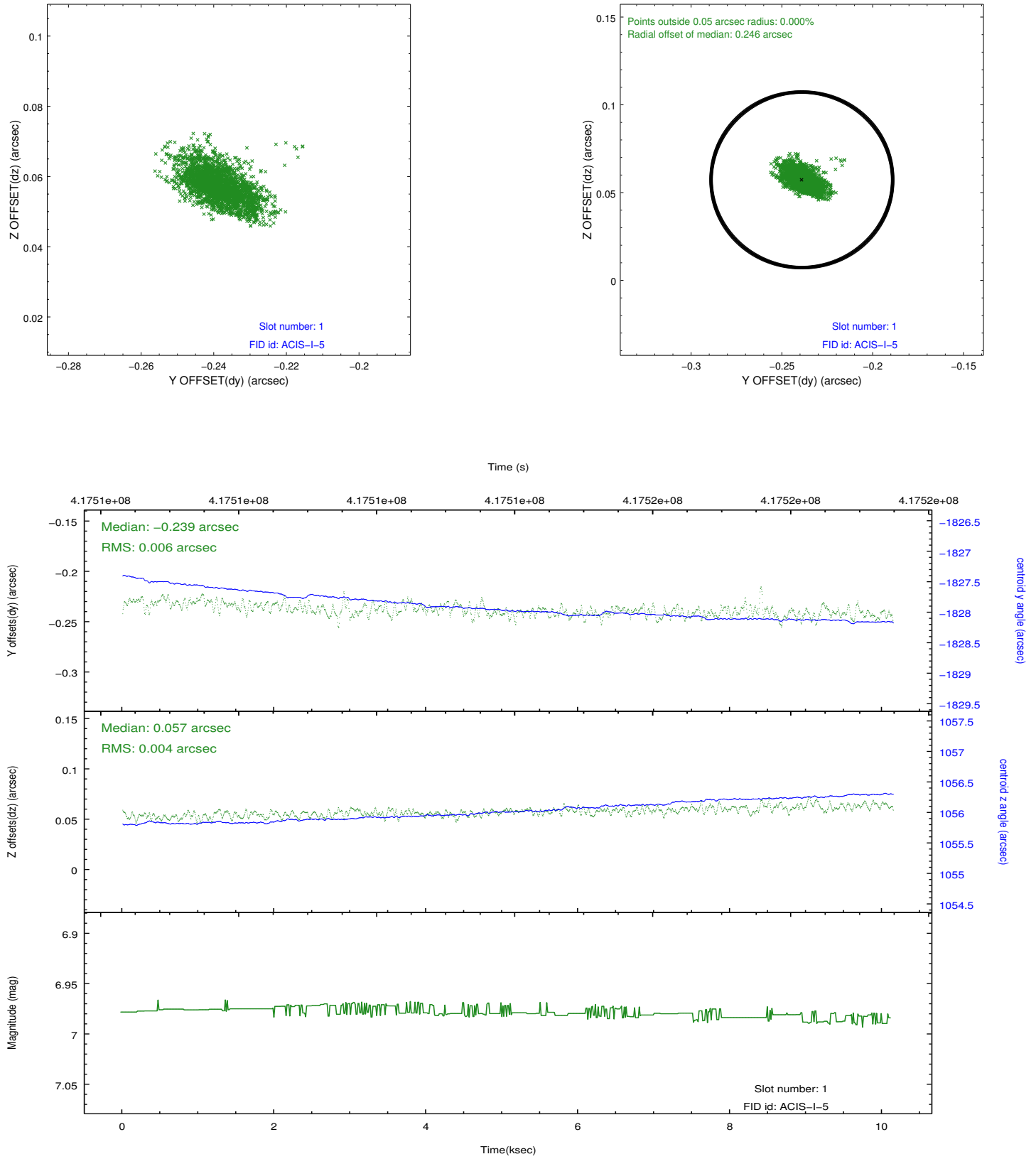


2.5 FID Slots

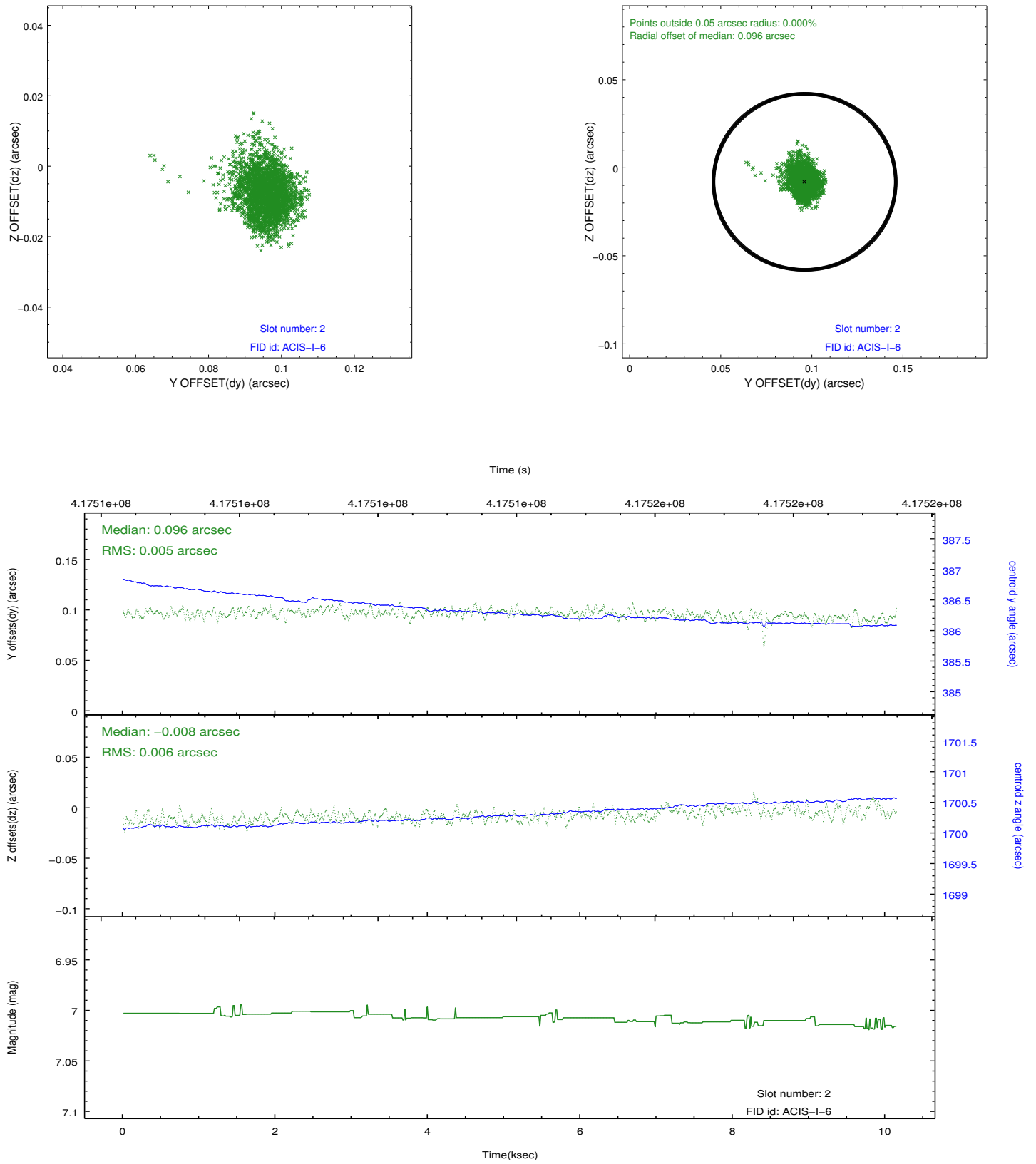
2.5.1 Slot 0



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)	2012.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.051968178988

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.