

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12944 - L2 Version 2
Chandra X-Ray Center

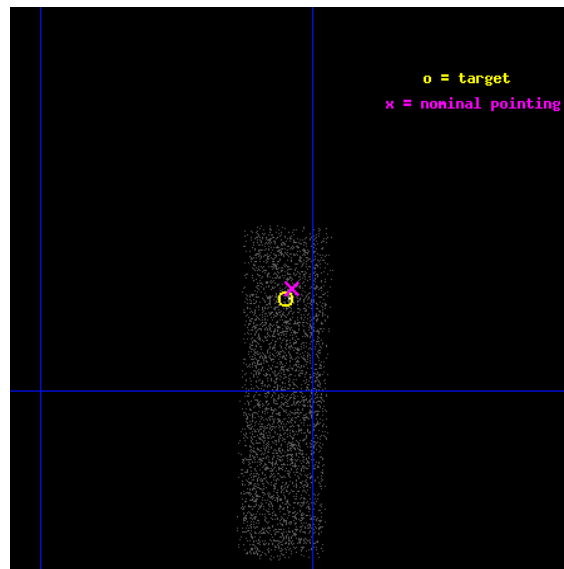
L2 Processing Date : Feb 8 2012

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1 Front

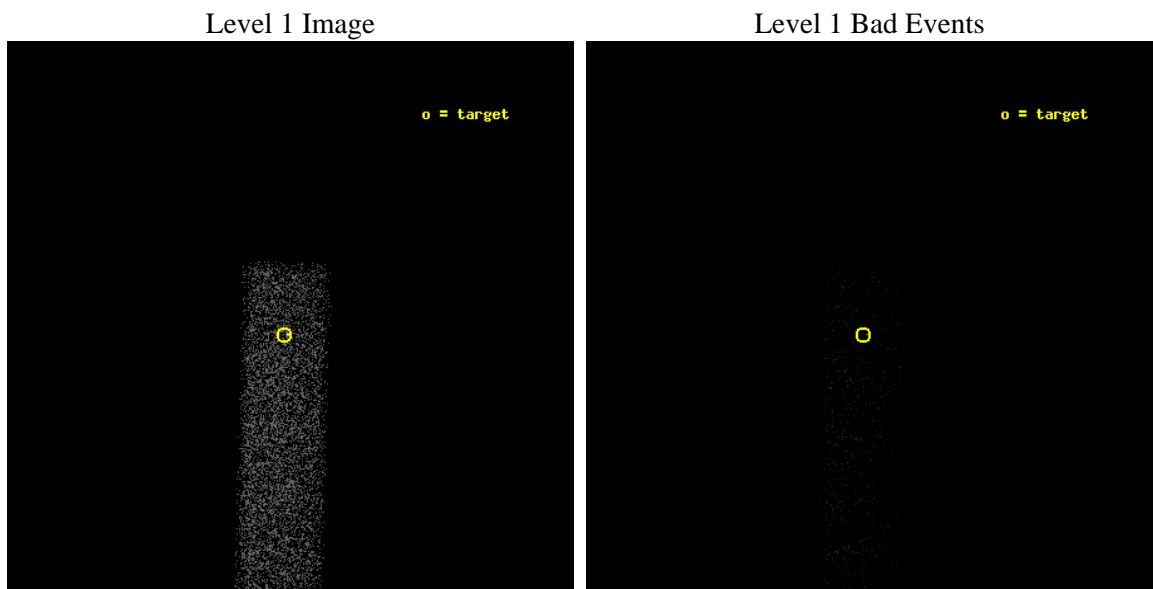
seq_num	900976	Sequence number
obs_id	12944	Observation id
title	Chandra Studies of Unidentified X-ray Sources in the Galactic Bulge	
observer	Dr. Hideyuki Mori	Principal investigator
object	1RXS J173333.0-181736	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.3875	Observer's specified target RA [deg]
dec_targ	-18.293333	Observer's specified target Dec [deg]
ra_nom	263.38469118795	Nominal RA [deg]
dec_nom	-18.289194216082	Nominal Dec [deg]
roll_nom	91.569135364603	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4026.9177446365	Sum of GTIs [s]
livetime	3830.4173353339	Livetime [s]
ontime7	4026.9177446365	Sum of GTIs [s]
l2events	4578	Number of level 2 events



2 OBI

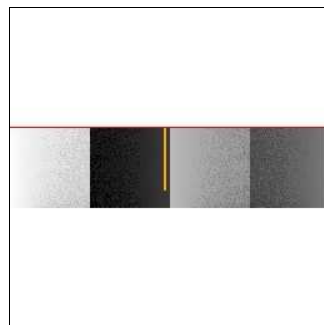
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4026.9177446365	Sum of GTIs [s]
caldsver	4.4.7	 	ontime7	4026.9177446365	Sum of GTIs [s]
date	2012-02-08T21:45:38	Date and time of file creation	l1events	8819	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

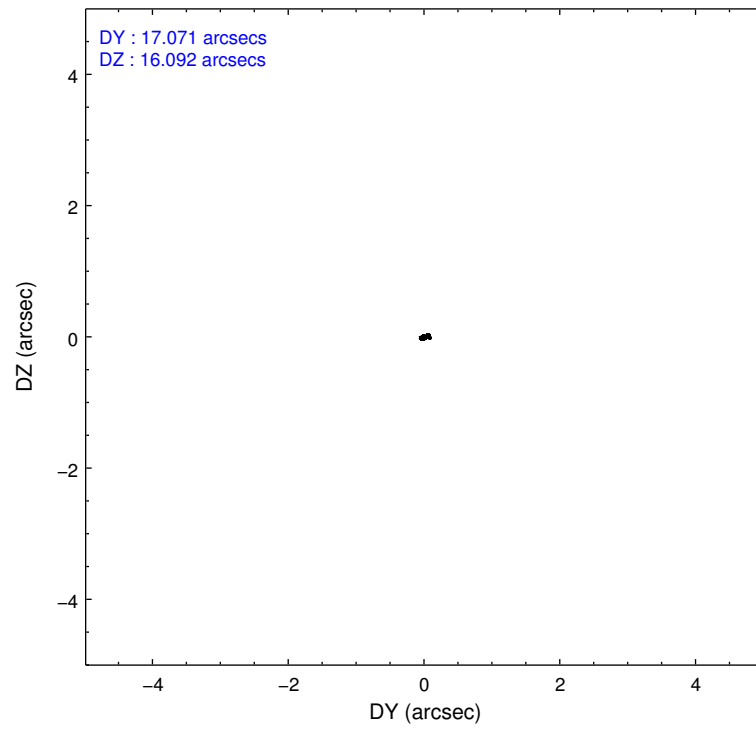
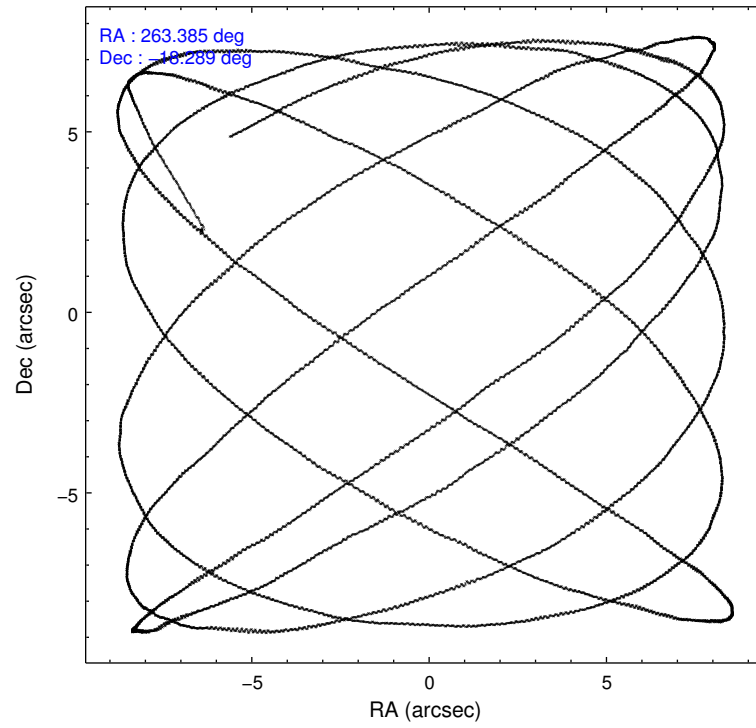
	ccd 7
level 1 events	8819
rejected events	4080
rejected %	46%

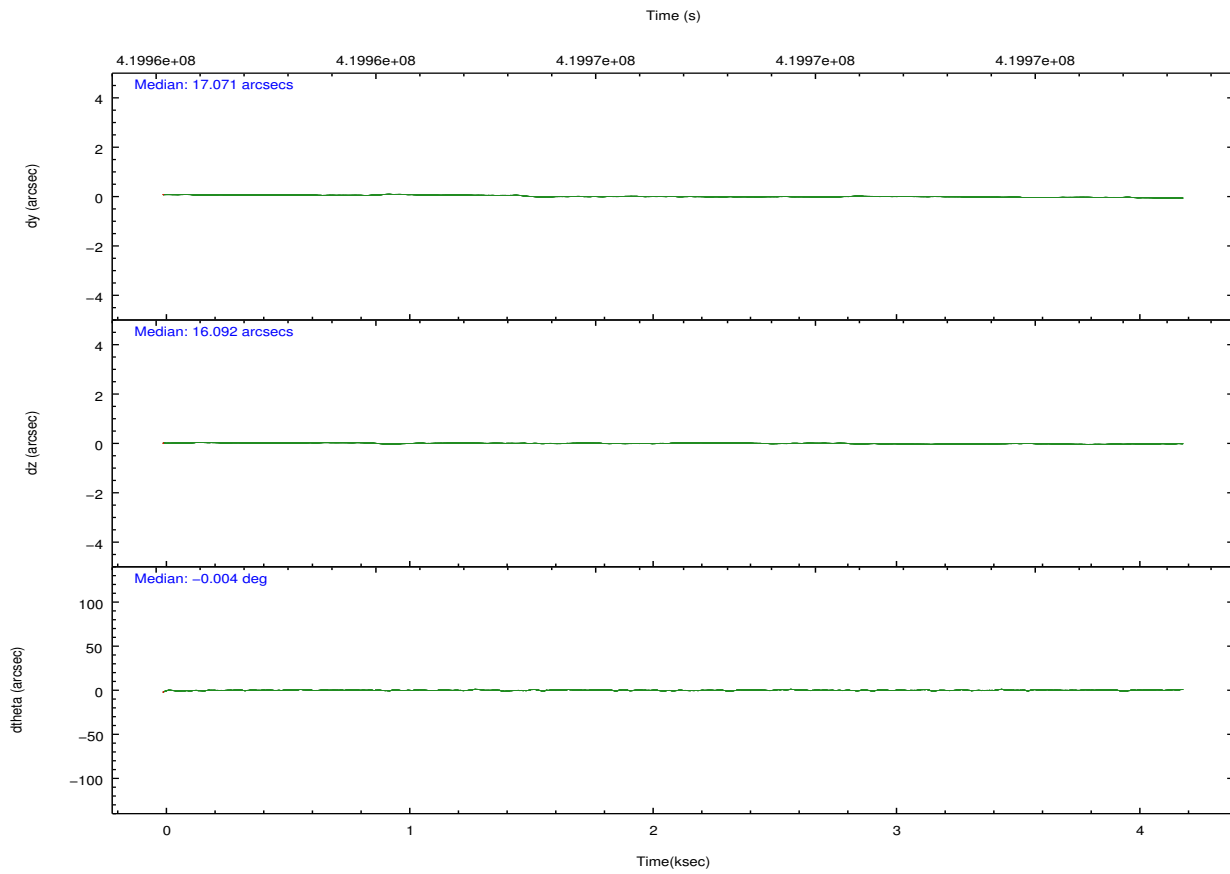
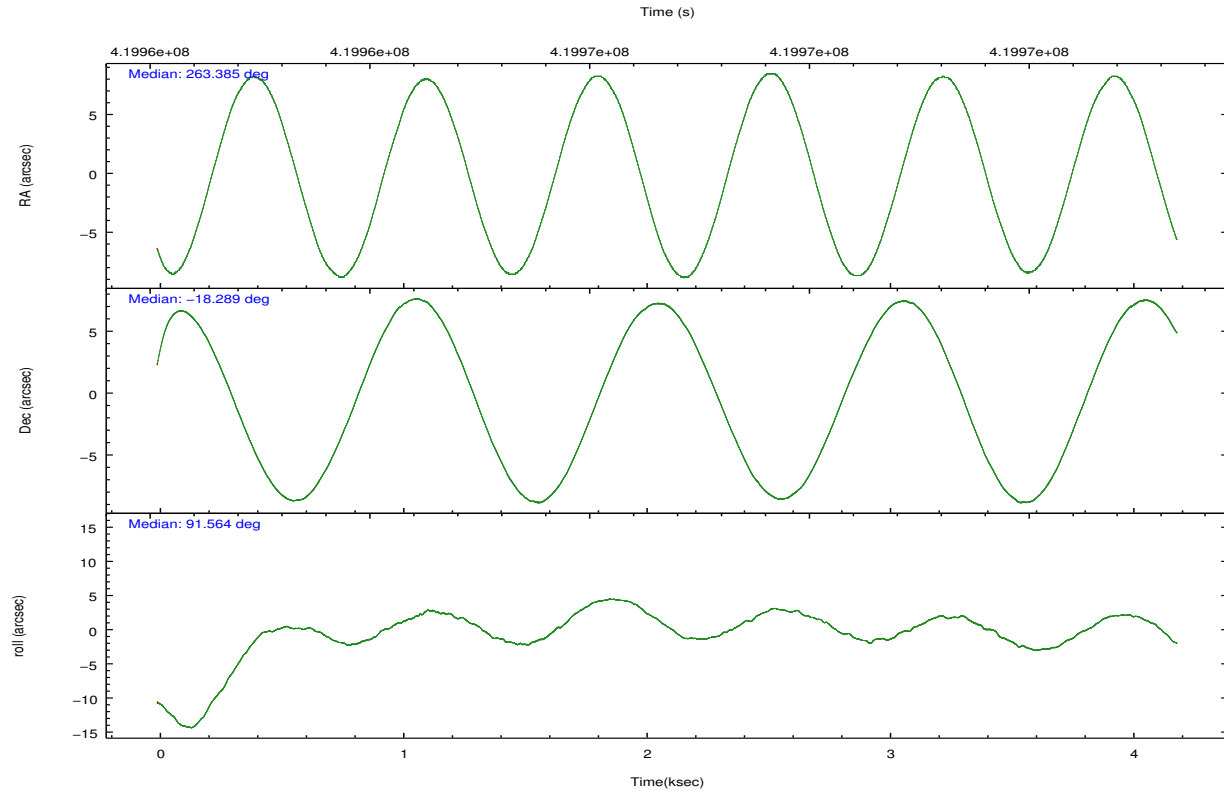
	ccd 7
grade 0 events	579
	6%
grade 1 events	9
	0%
grade 2 events	971
	11%
grade 3 events	528
	5%
grade 4 events	542
	6%
grade 5 events	864
	9%
grade 6 events	2121
	24%
grade 7 events	3205
	36%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	263.400107	263.384691187946	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-18.312379	-18.28919421608208	Subarray start row	385	385
[deg] Pointing Roll	91.417337	91.56913536460308	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	419964433.184000	419963705.76419			
Observation start date	2011-04-23T16:46:07	2011-04-23T16:35:05			
[s] Observation end time (MET)	419968433.184000	419968751.83945			
Observation end date	2011-04-23T17:52:47	2011-04-23T17:59:11			
Read mode	TIMED	TIMED			

2.3 Aspect



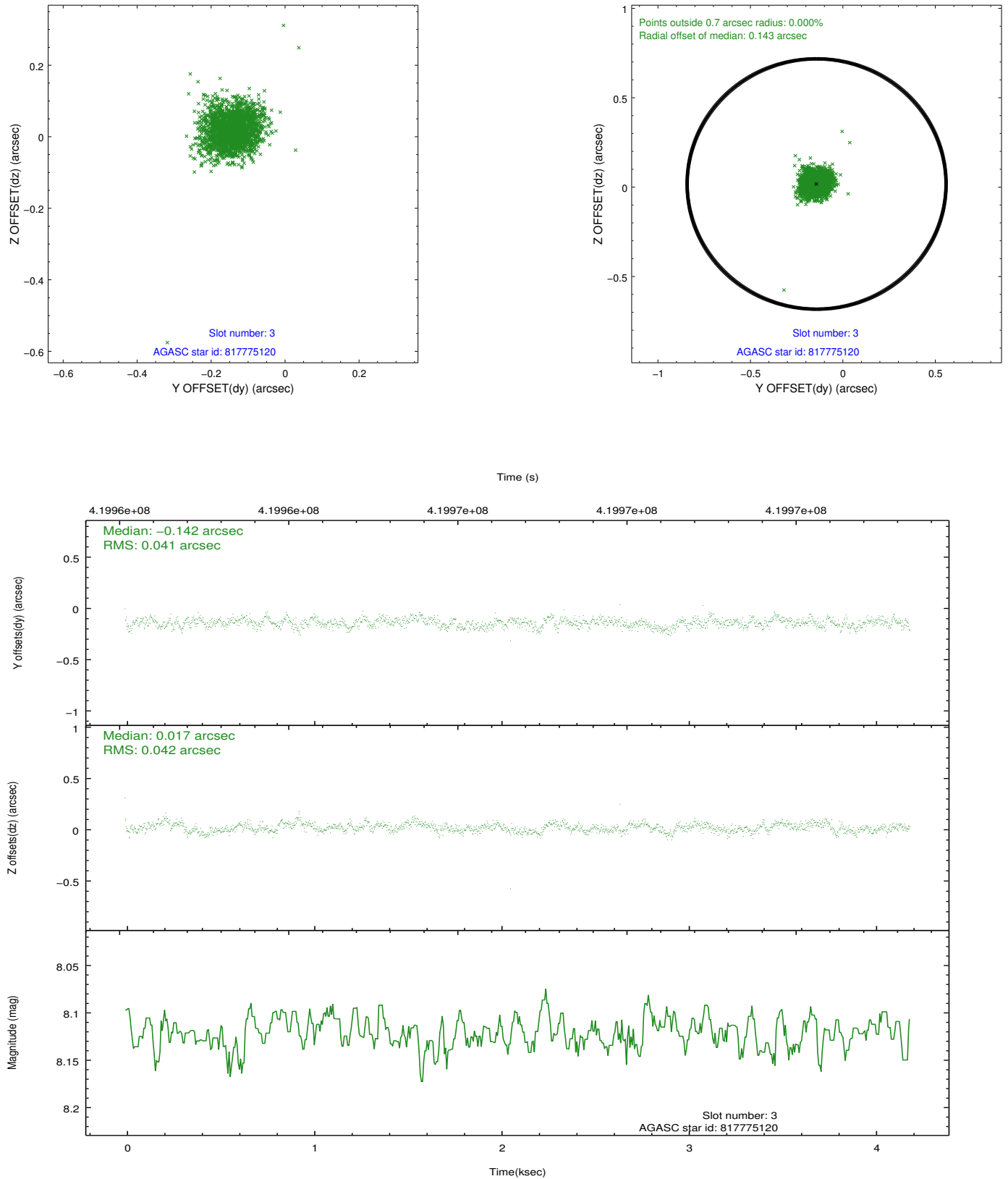


Slot Statistics

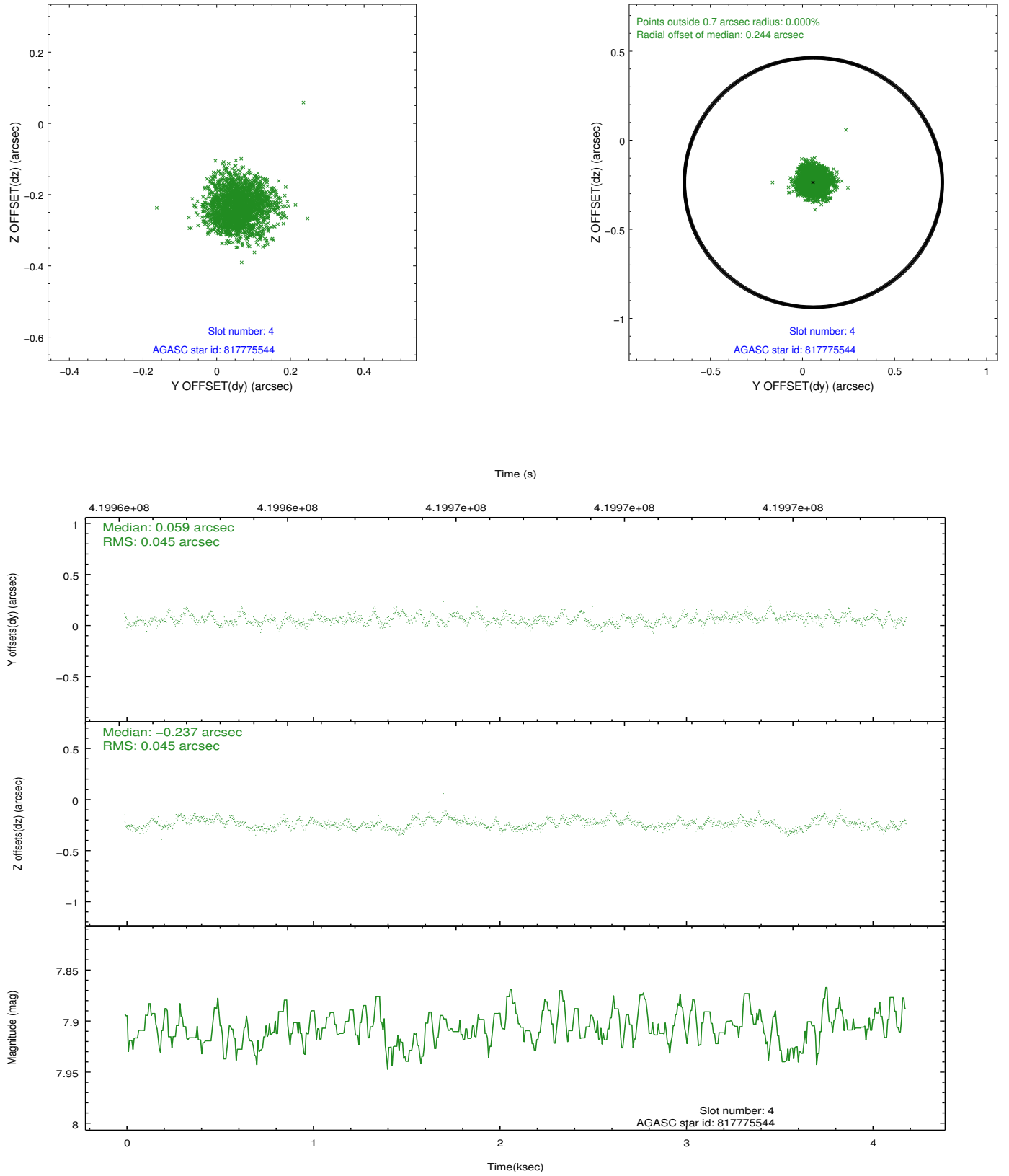
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	1023	-0.093	-0.018	0.007	0.011	0.000000	0.000000	-770.19	-1737.52
1	FID	ACIS-S-4	7.04	1022	0.202	0.050	0.006	0.009	0.000000	0.000000	2142.69	169.51
2	FID	ACIS-S-5	7.07	1023	-0.140	-0.023	0.007	0.012	0.000000	0.000000	-1821.20	164.77
3	GUIDE	817775120	8.12	2045	-0.142	0.017	0.060	0.097	263.495564	-17.836290	1704.99	-368.74
4	GUIDE	817775544	7.91	2045	0.059	-0.237	0.068	0.107	263.362492	-18.339790	-94.80	130.79
5	GUIDE	817775552	8.93	2043	0.050	0.218	0.087	0.138	263.990271	-18.642292	-1240.63	-1982.93
6	GUIDE	817776152	9.14	2042	0.105	0.131	0.116	0.172	263.850027	-18.676152	-1349.68	-1502.08
7	GUIDE	817775128	9.49	2042	-0.068	-0.136	0.134	0.208	263.178552	-18.644281	-1177.04	784.31

2.4 Star Slots

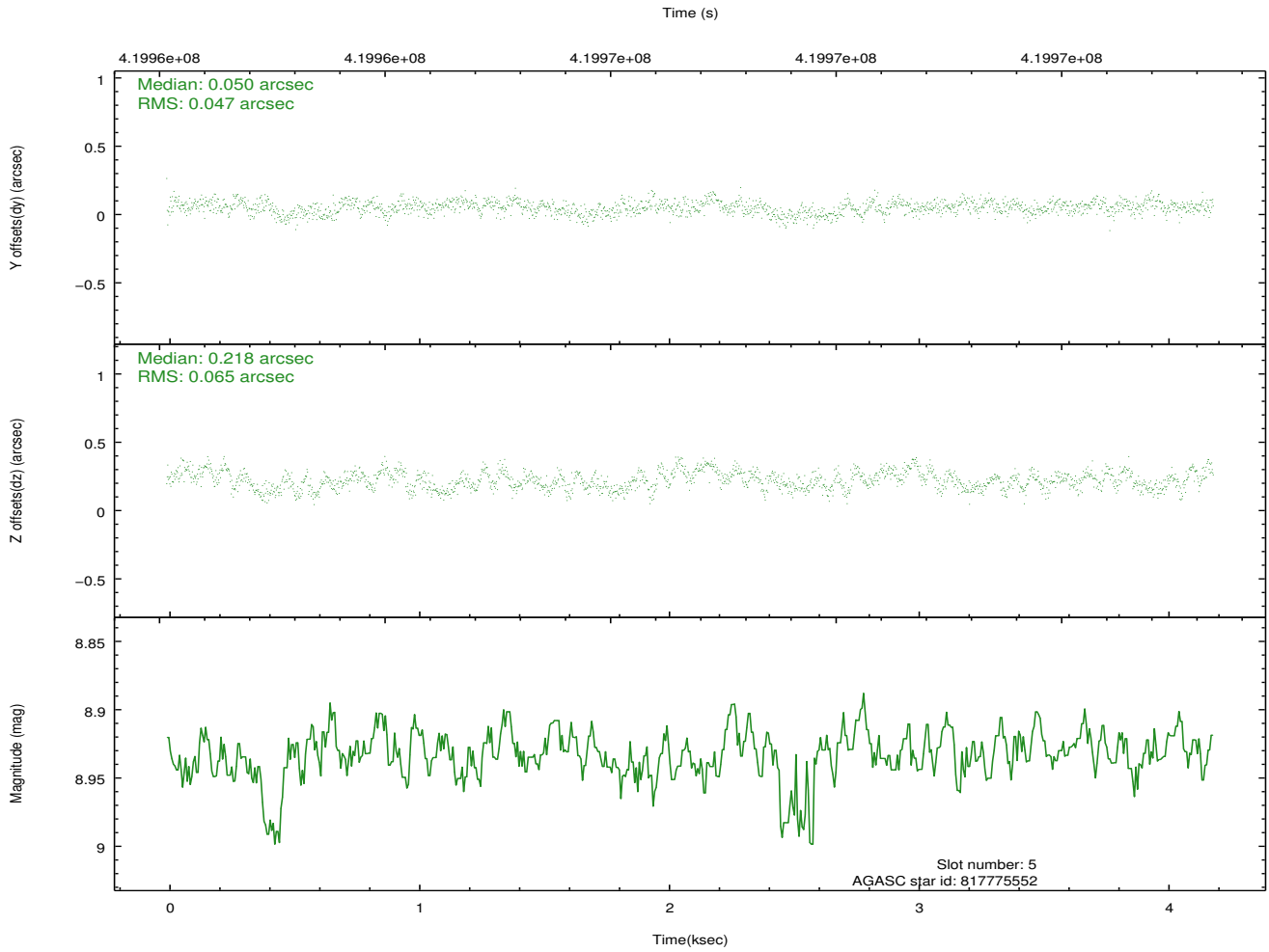
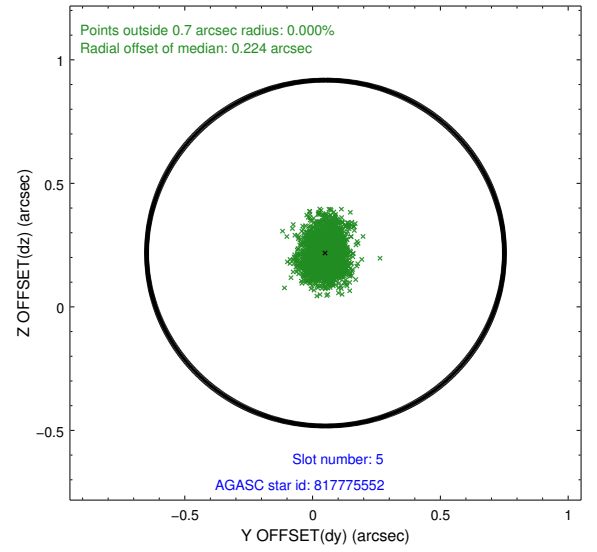
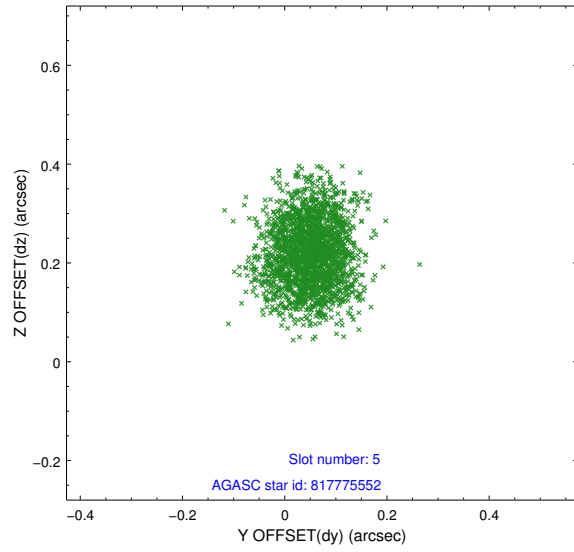
2.4.1 Slot 3



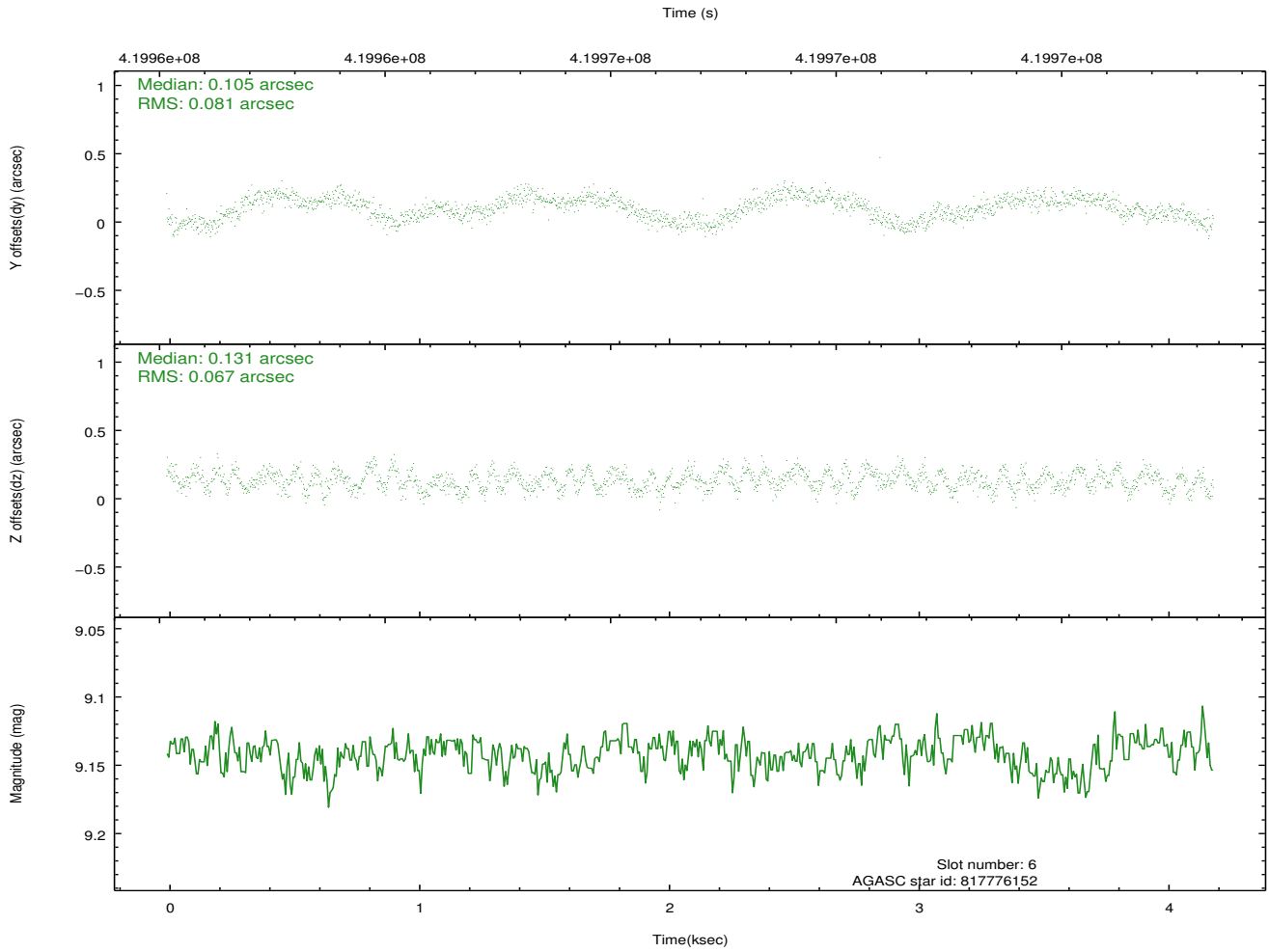
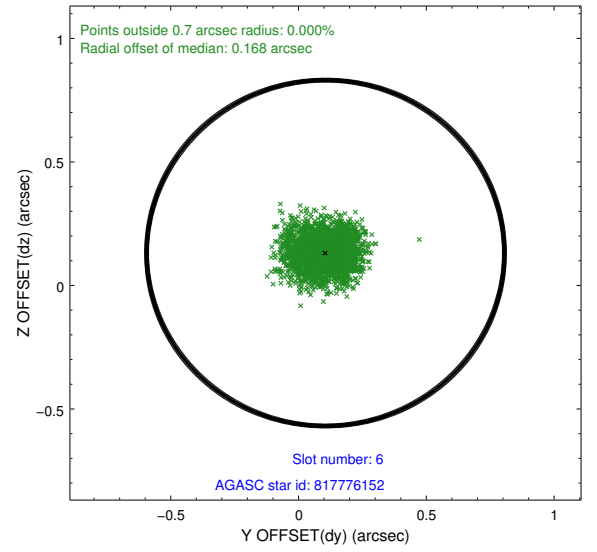
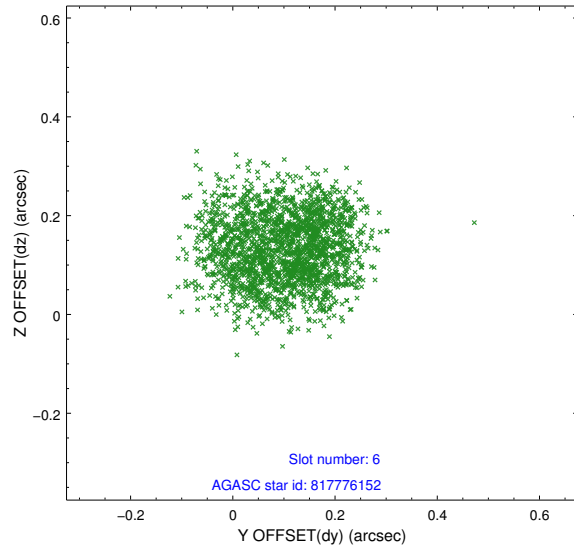
2.4.2 Slot 4



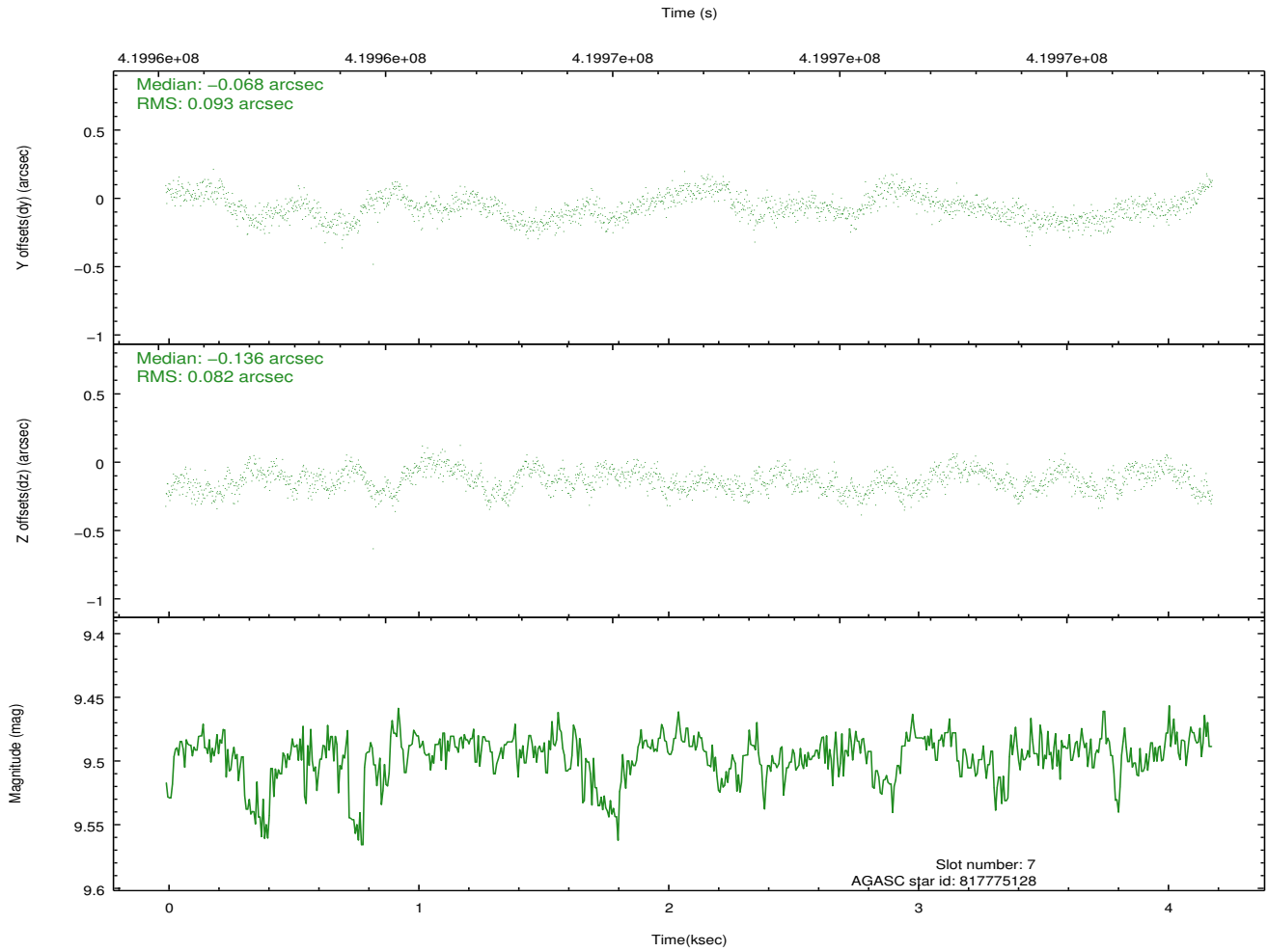
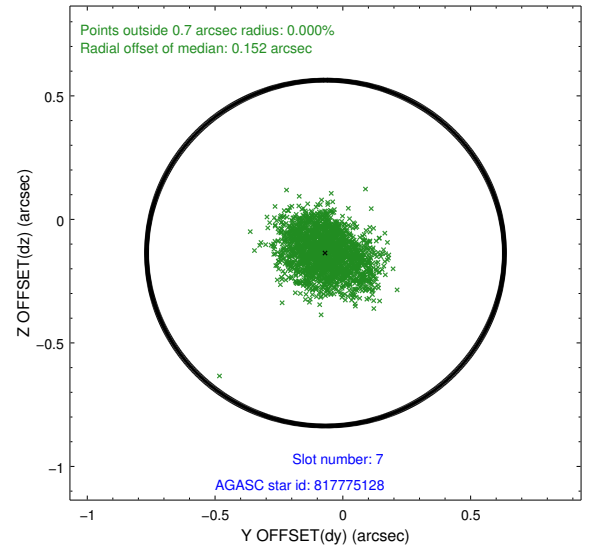
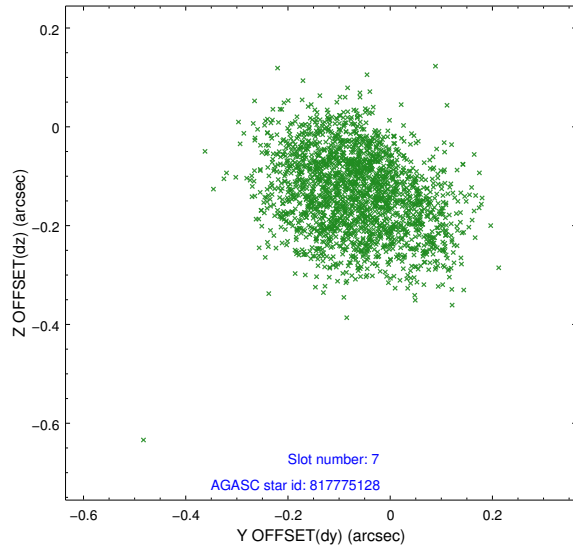
2.4.3 Slot 5



2.4.4 Slot 6

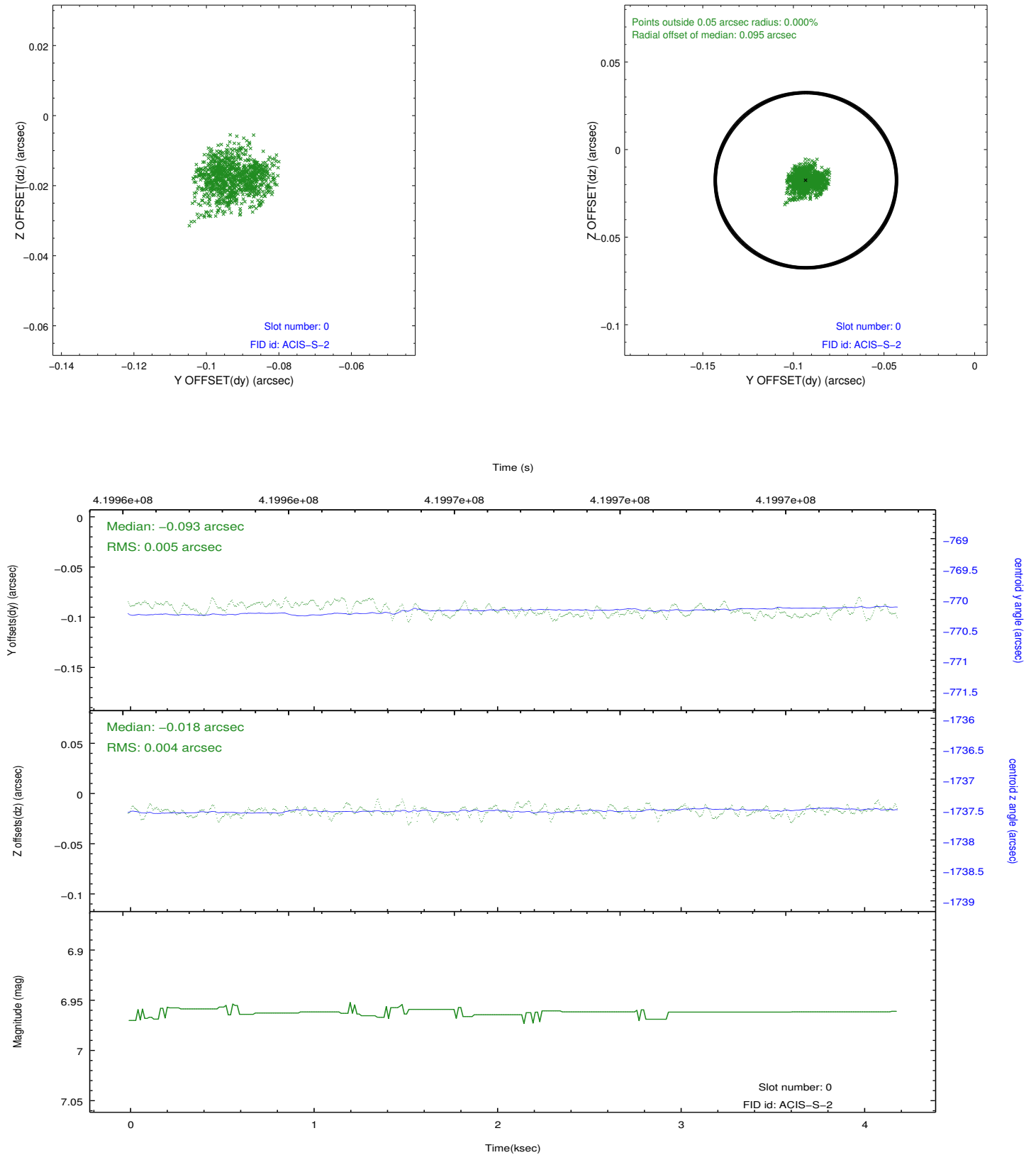


2.4.5 Slot 7

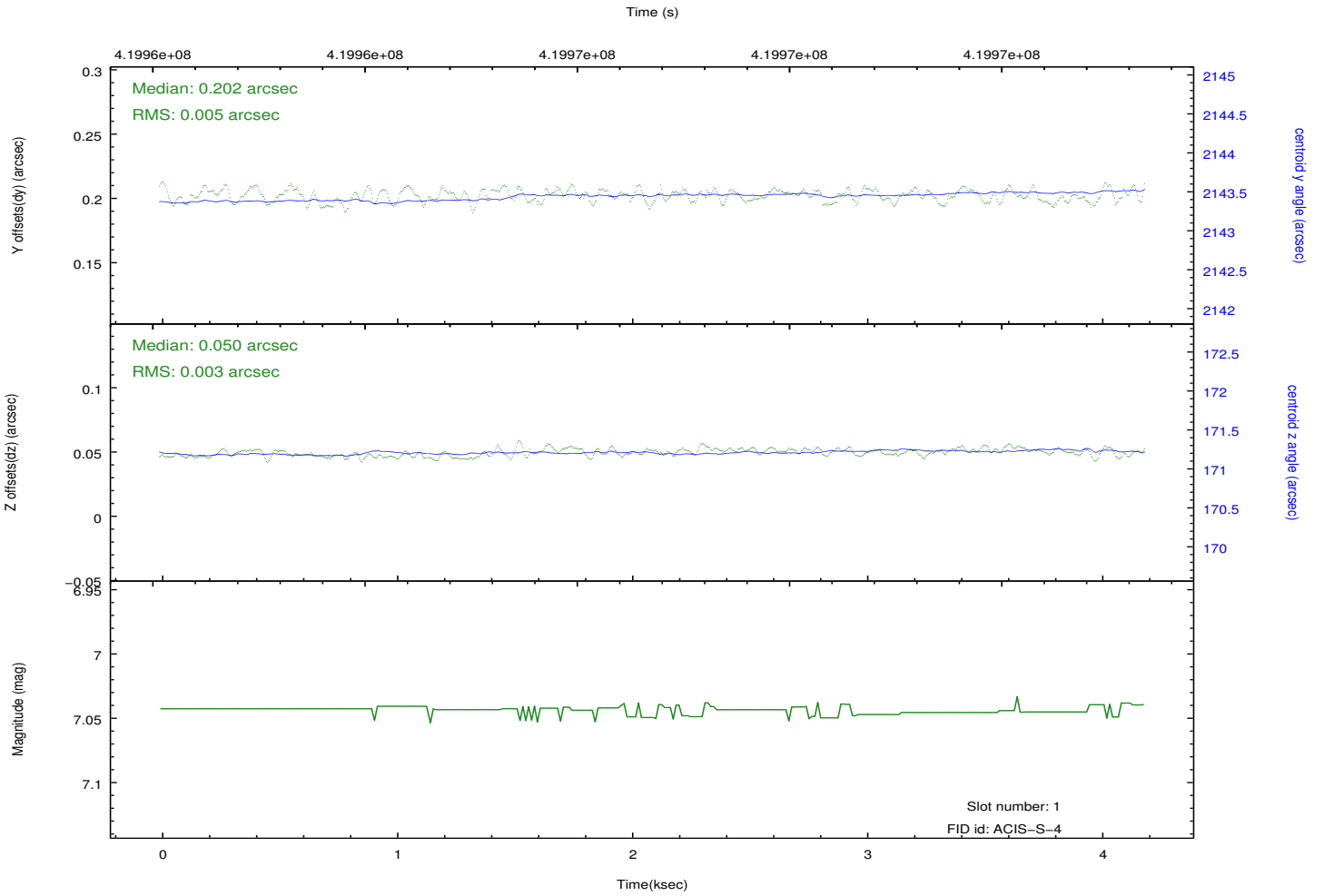
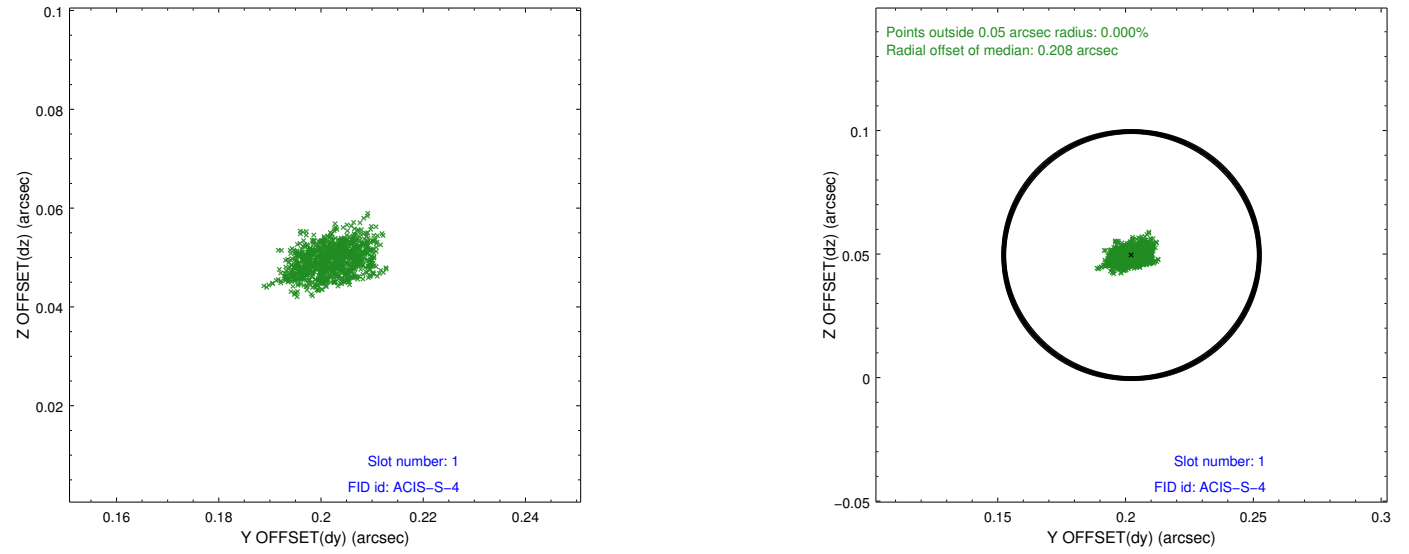


2.5 FID Slots

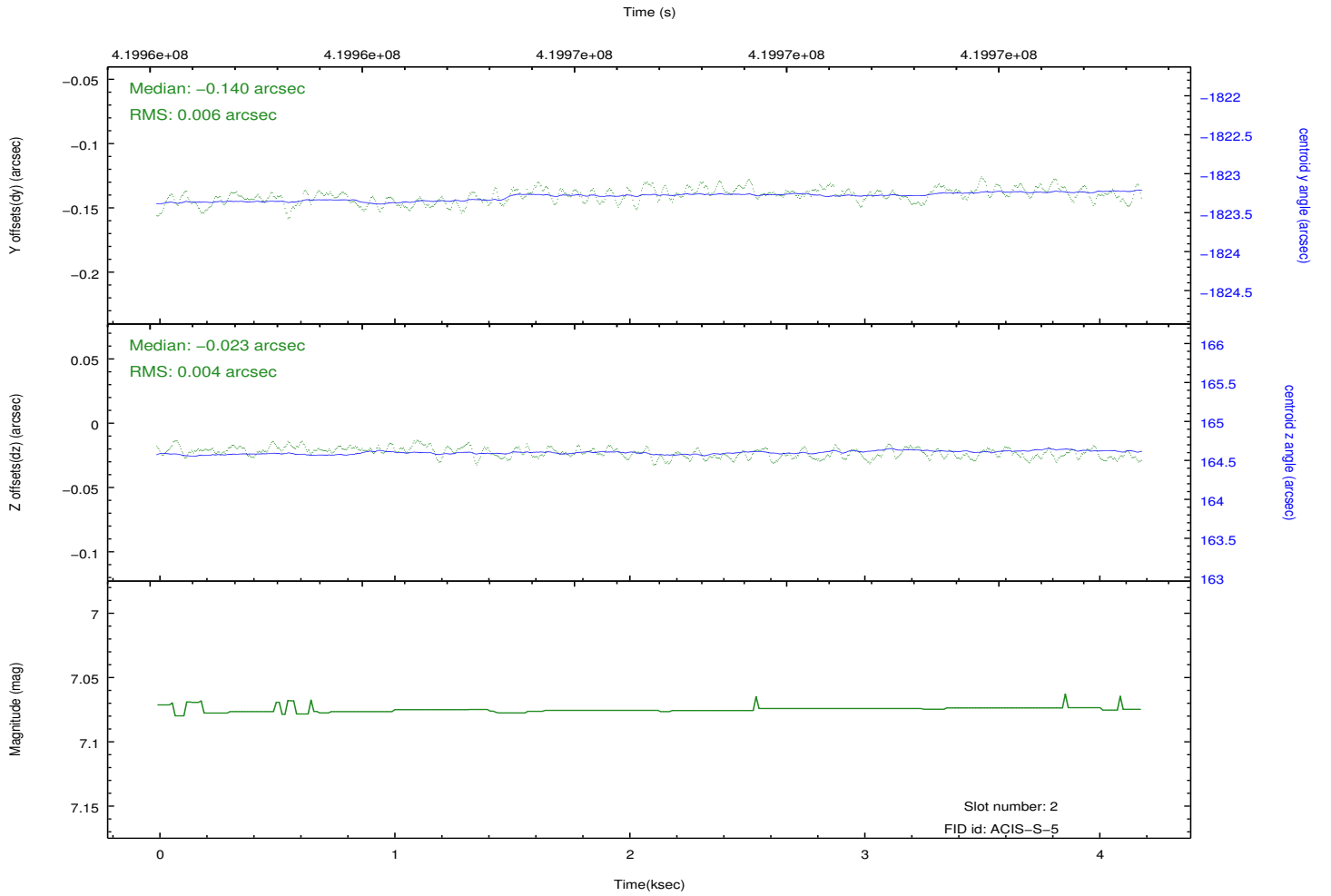
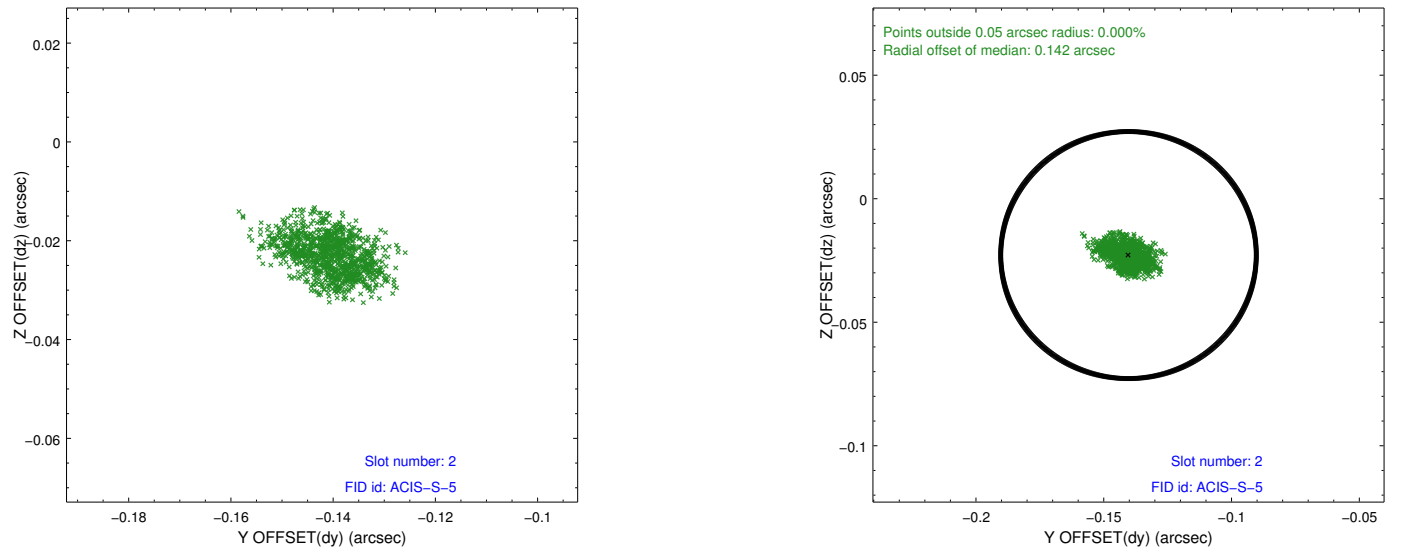
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0269177424908

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.