

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12805 - L2 Version 2
Chandra X-Ray Center

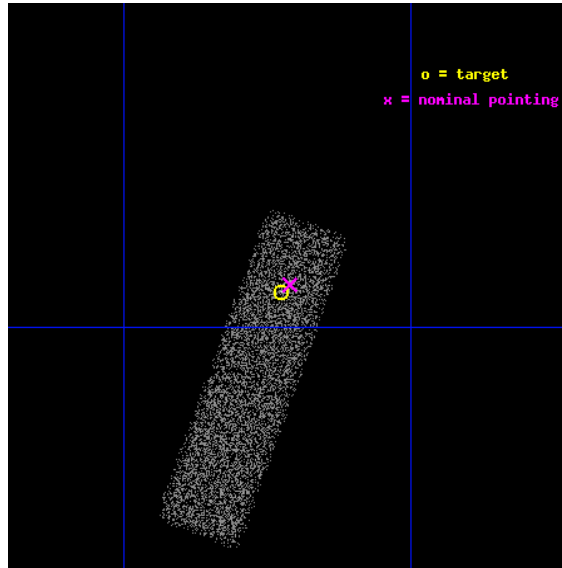
L2 Processing Date : Feb 10 2012

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1 Front

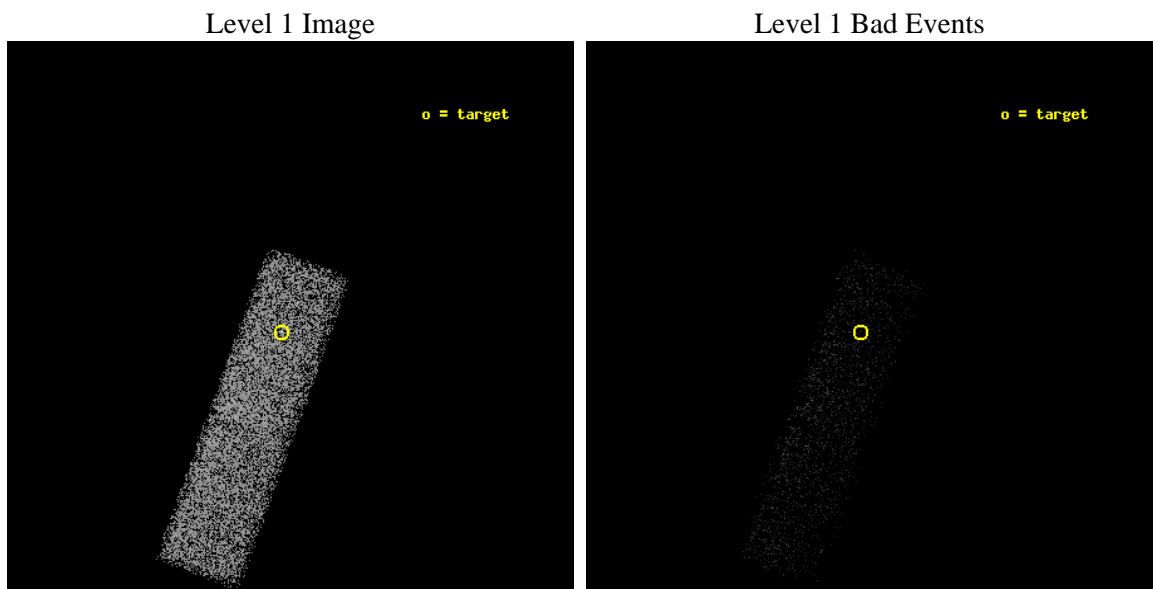
seq_num	702441	Sequence number
obs_id	12805	Observation id
title	Exploring the X-ray Properties of the Highest-Luminosity Double-Peaked Emitters	Proposal title
observer	Bin Luo	Principal investigator
object	SDSS J214843.56+001054.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	327.181667	Observer's specified target RA [deg]
dec_targ	0.181806	Observer's specified target Dec [deg]
ra_nom	327.17785776443	Nominal RA [deg]
dec_nom	0.18484243205521	Nominal Dec [deg]
roll_nom	110.01624420155	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9026.8848563433	Sum of GTIs [s]
livetime	8586.4024125781	Livetime [s]
ontime7	9026.8848563433	Sum of GTIs [s]
l2events	8996	Number of level 2 events



2 OBI

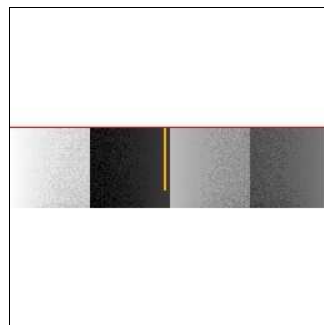
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	9026.8848563433	Sum of GTIs [s]
caldsver	4.4.7	 	ontime7	9026.8848563433	Sum of GTIs [s]
date	2012-02-10T06:27:33	Date and time of file creation	l1events	18980	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

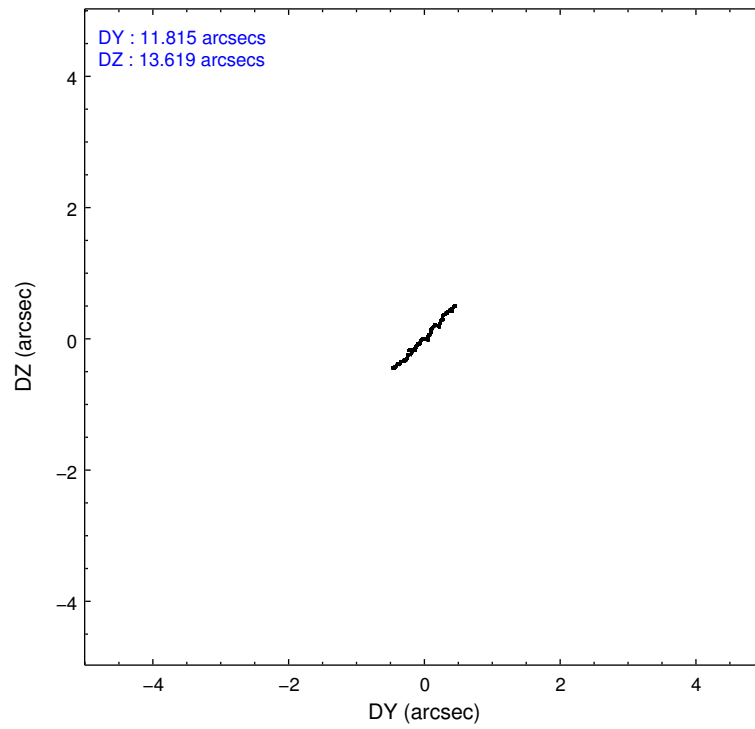
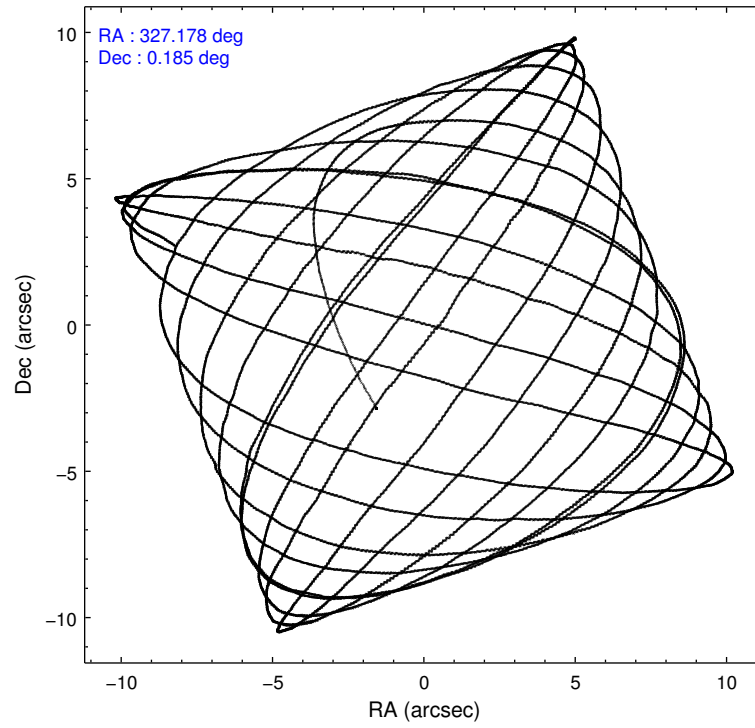
	ccd 7
level 1 events	18980
rejected events	9654
rejected %	50%

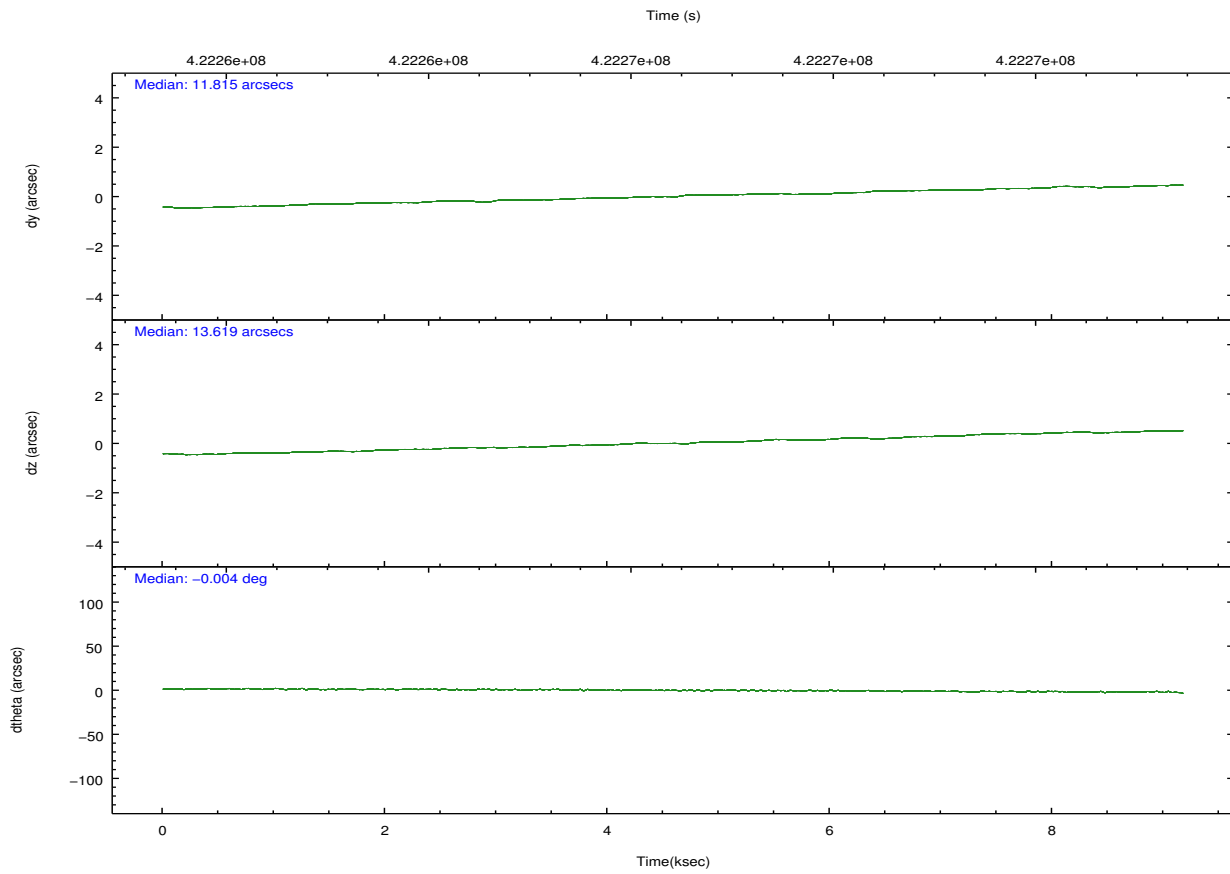
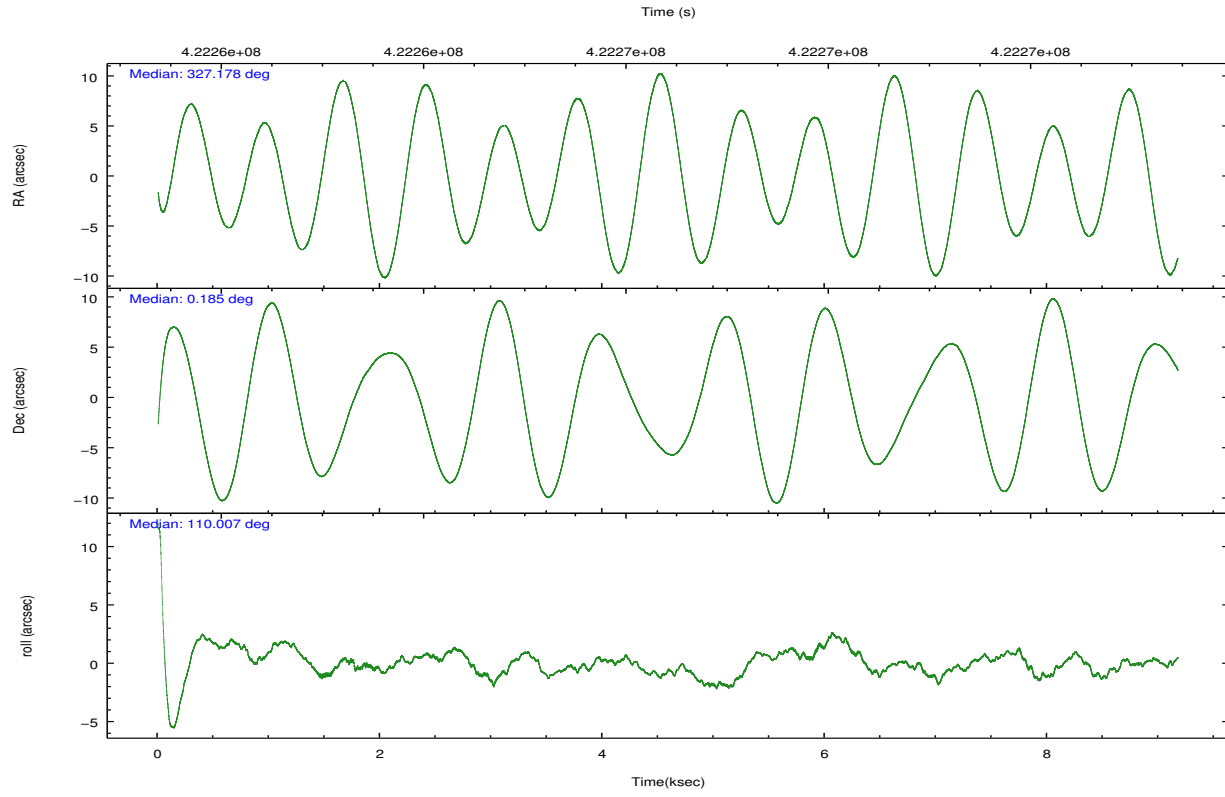
	ccd 7
grade 0 events	928
	4%
grade 1 events	25
	0%
grade 2 events	1833
	9%
grade 3 events	1101
	5%
grade 4 events	1085
	5%
grade 5 events	1988
	10%
grade 6 events	4383
	23%
grade 7 events	7637
	40%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	327.199052	327.1778577644253	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	0.167533	0.1848424320552096	Subarray start row	385	385
[deg] Pointing Roll	109.859530	110.0162442015521	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	422262006.184000	422261160.87101			
Observation start date	2011-05-20T06:59:00	2011-05-20T06:46:00			
[s] Observation end time (MET)	422271006.184000	422271784.99656			
Observation end date	2011-05-20T09:29:00	2011-05-20T09:43:04			
Read mode	TIMED	TIMED			

2.3 Aspect



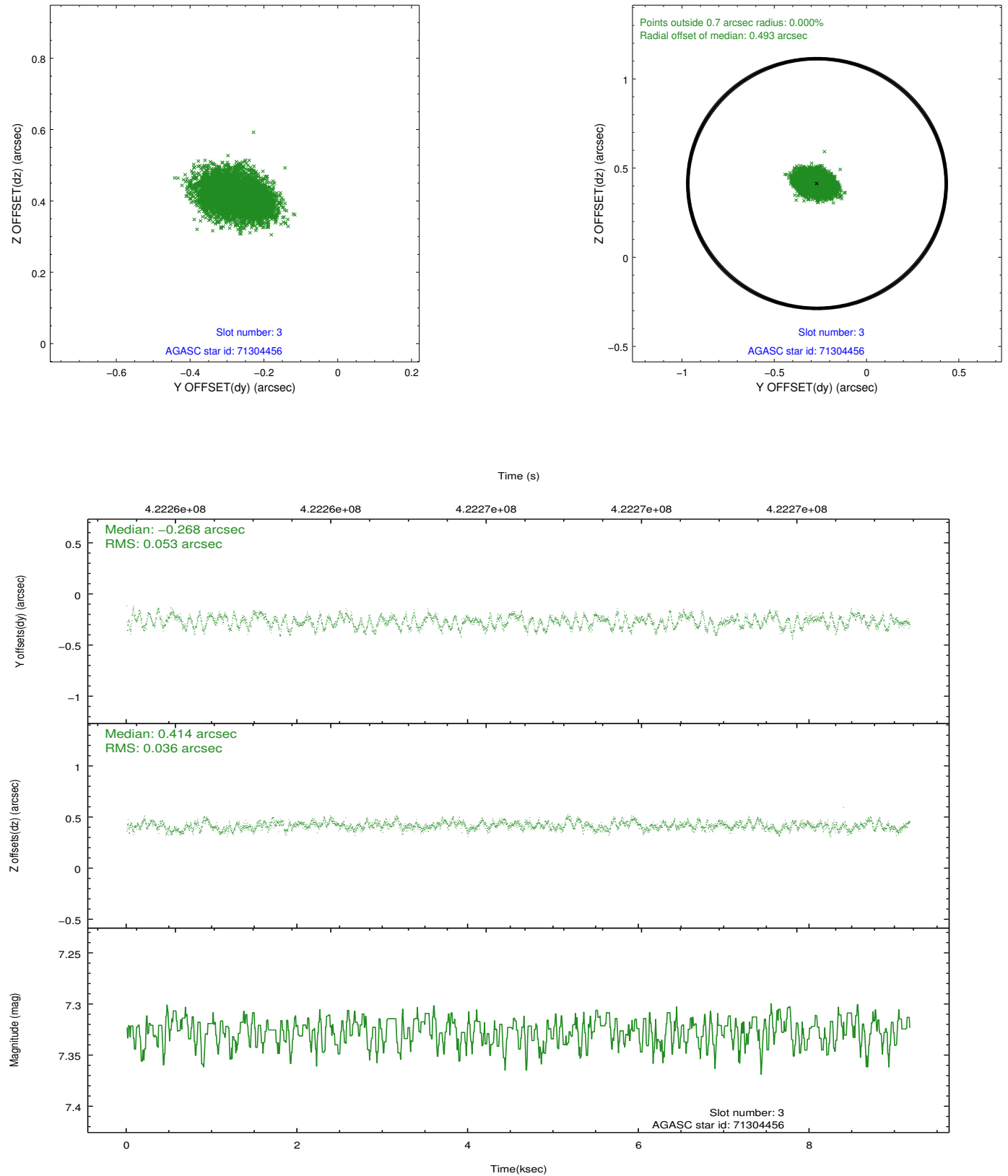


Slot Statistics

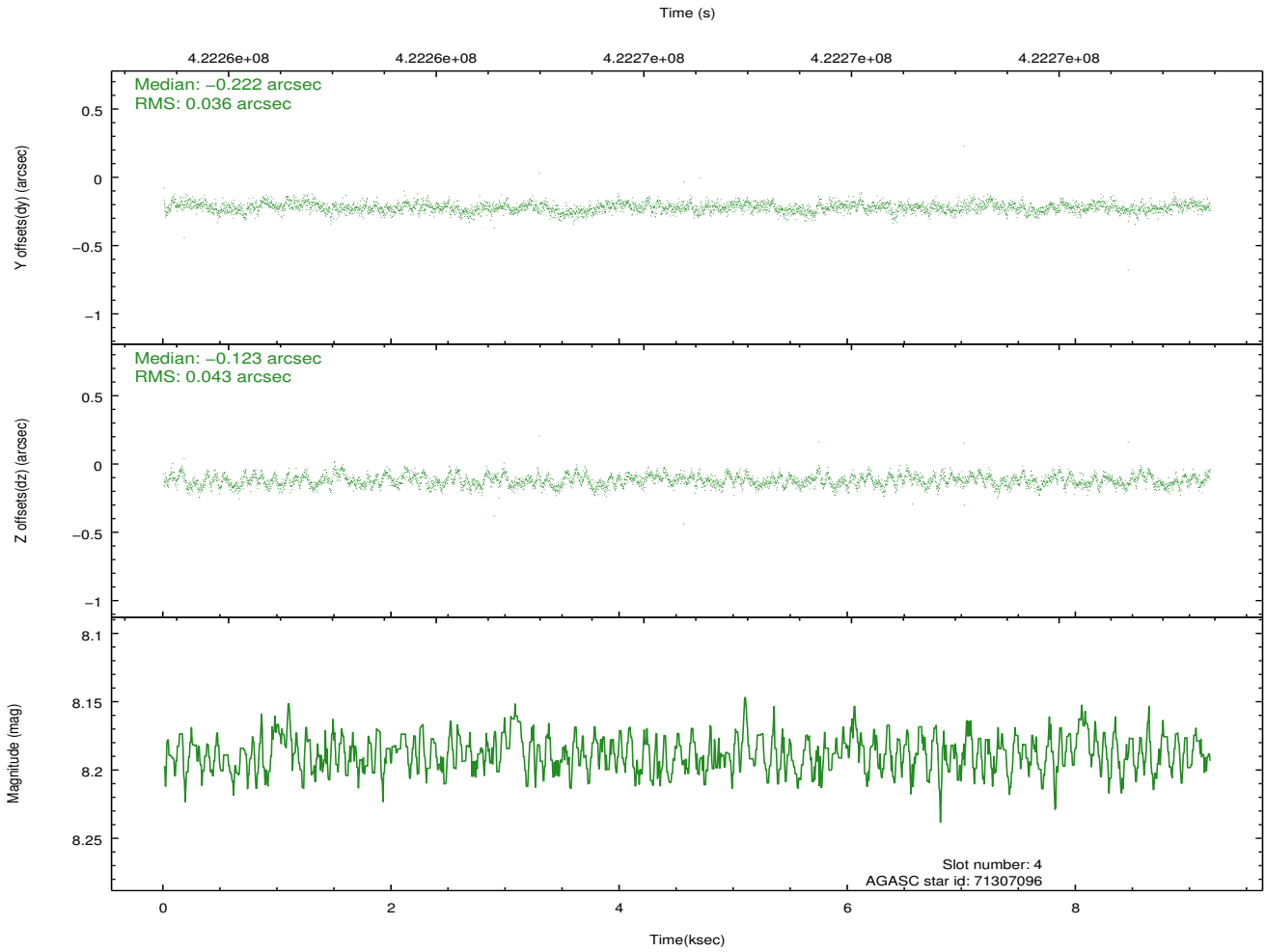
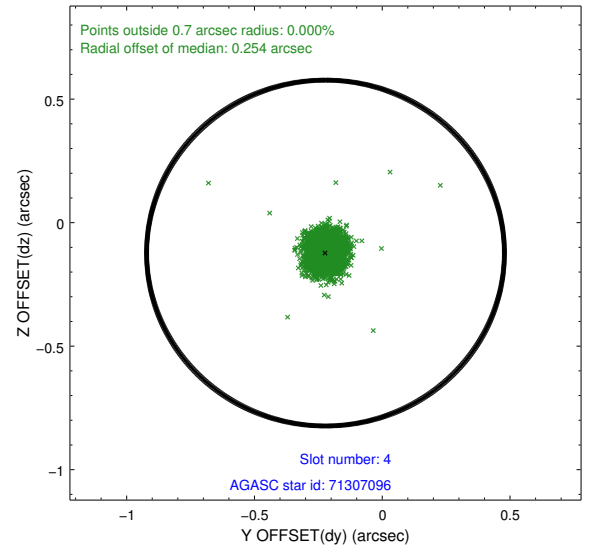
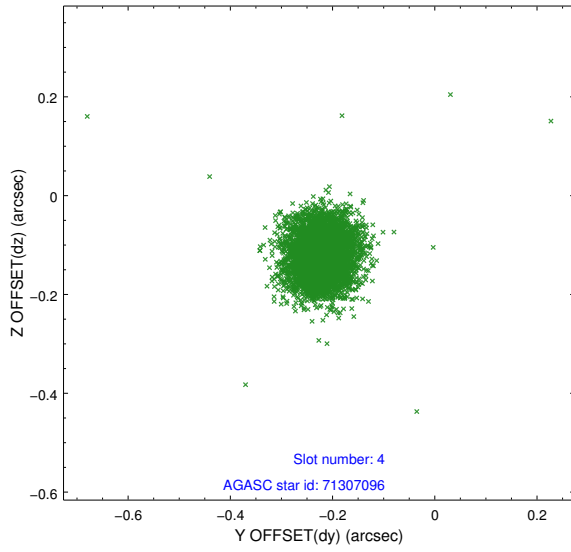
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.95	2238	-0.025	-0.035	0.008	0.015	0.000000	0.000000	-764.73	-1734.96
1	FID	ACIS-S-4	7.04	2238	0.115	0.021	0.012	0.021	0.000000	0.000000	2148.42	172.95
2	FID	ACIS-S-5	7.07	2238	-0.120	0.023	0.010	0.016	0.000000	0.000000	-1816.90	167.31
3	GUIDE	71304456	7.33	4476	-0.268	0.414	0.070	0.107	327.636323	0.752937	1447.20	-2195.77
4	GUIDE	71307096	8.19	4473	-0.222	-0.123	0.057	0.094	327.095175	0.200785	239.41	310.87
5	GUIDE	682891736	9.17	4472	0.198	0.304	0.082	0.129	327.459172	-0.321691	-1974.58	-282.06
6	GUIDE	682890960	9.03	4458	0.195	-0.359	0.093	0.148	326.811452	-0.526105	-1875.08	2160.41
7	GUIDE	682893048	9.21	4472	0.101	-0.239	0.089	0.143	326.835994	-0.531926	-1925.04	2085.24

2.4 Star Slots

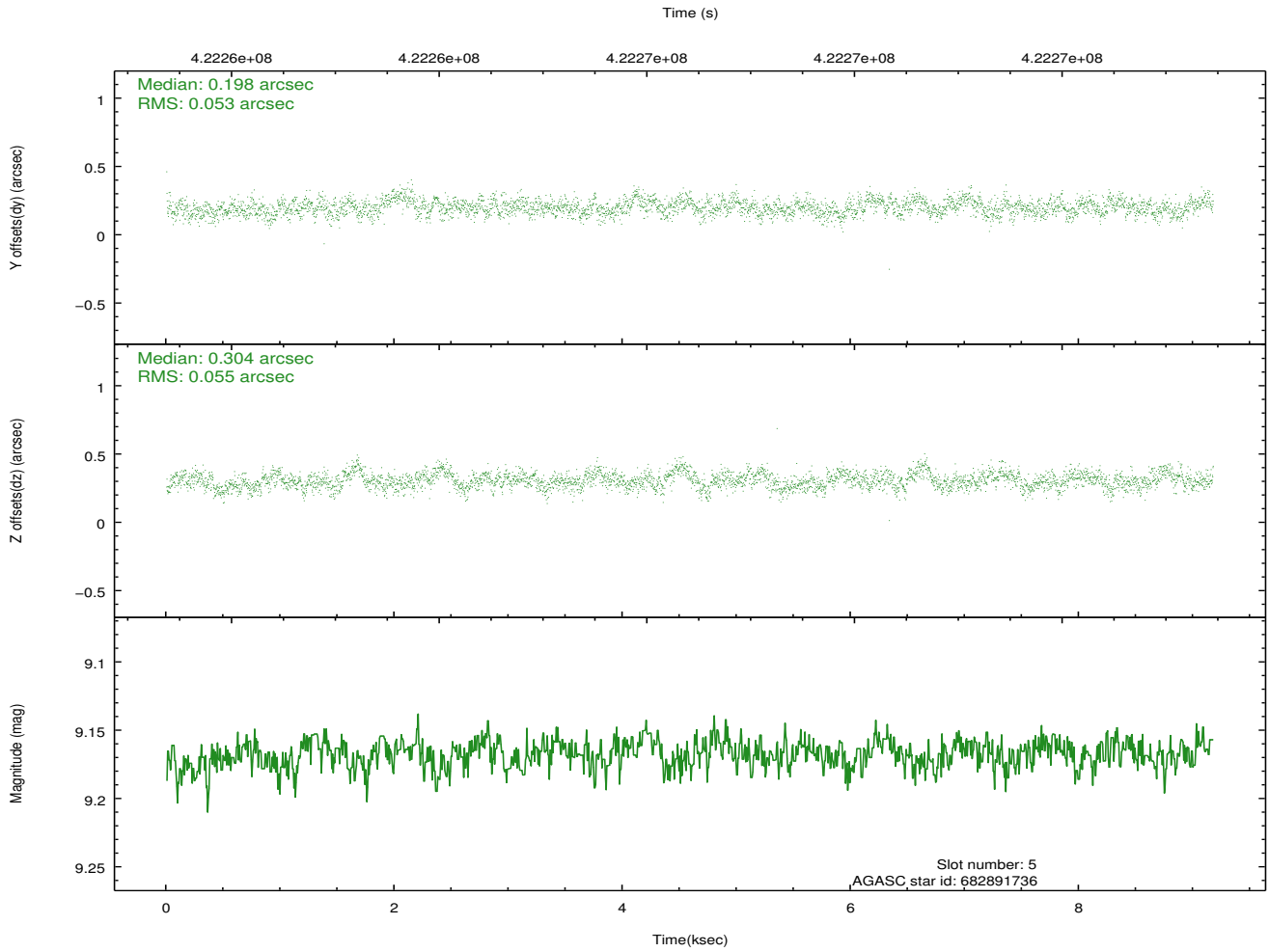
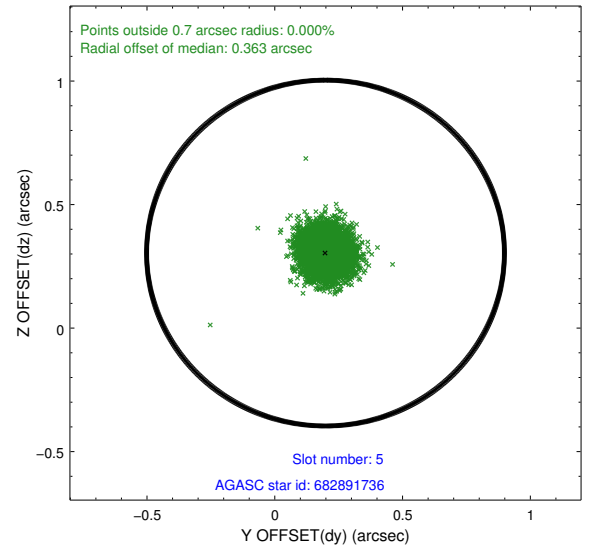
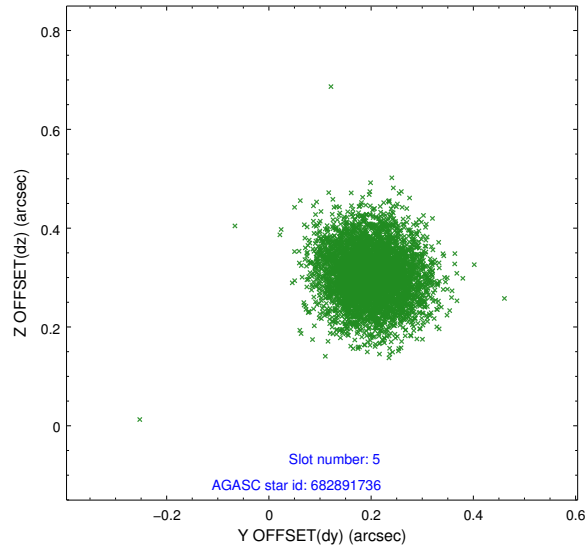
2.4.1 Slot 3



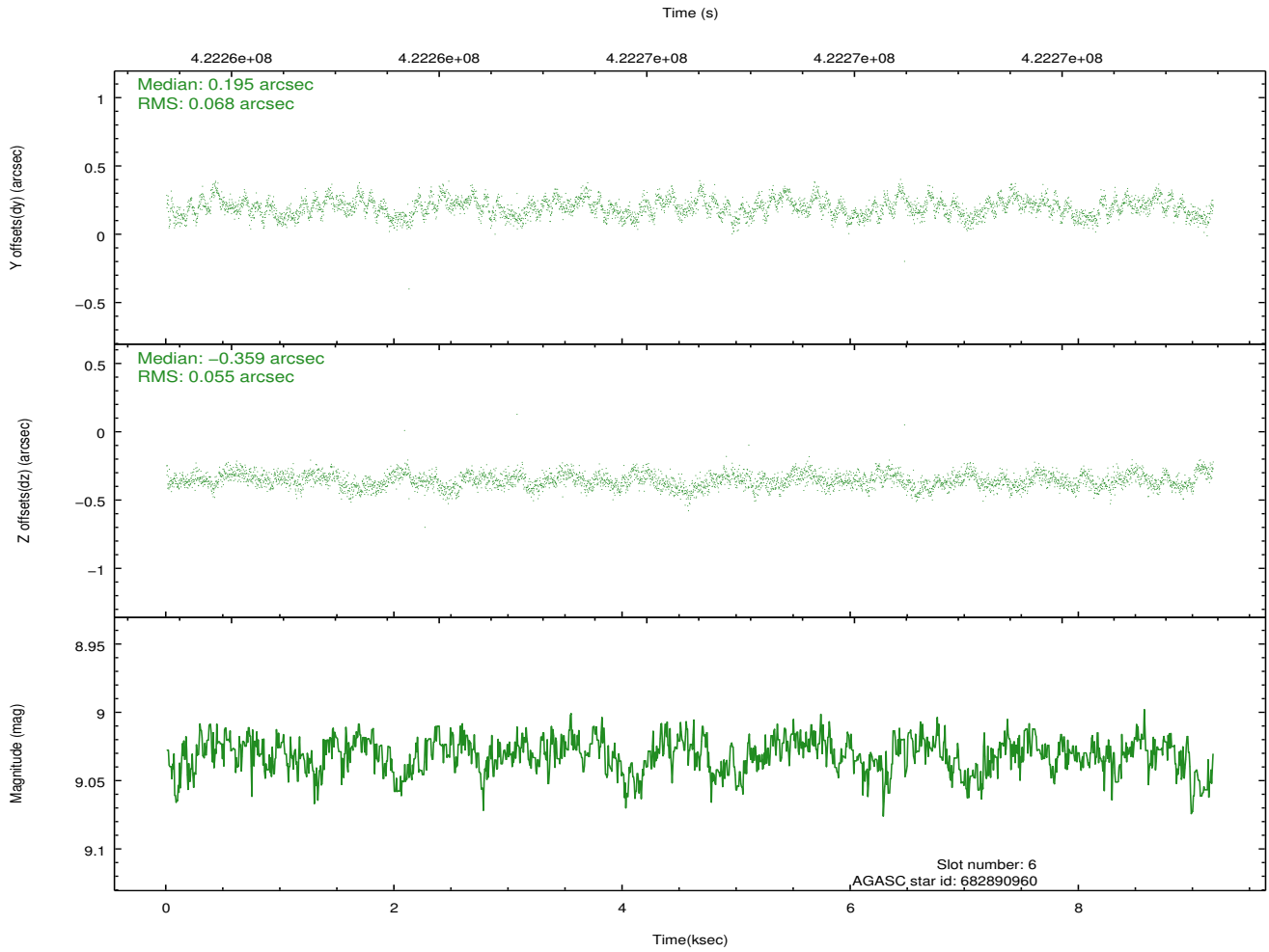
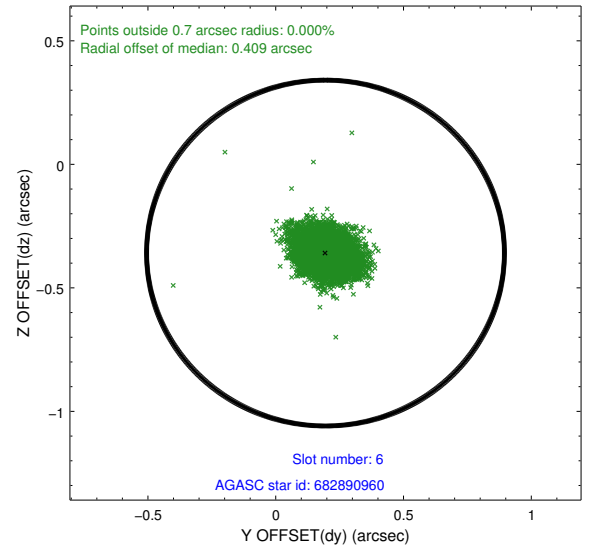
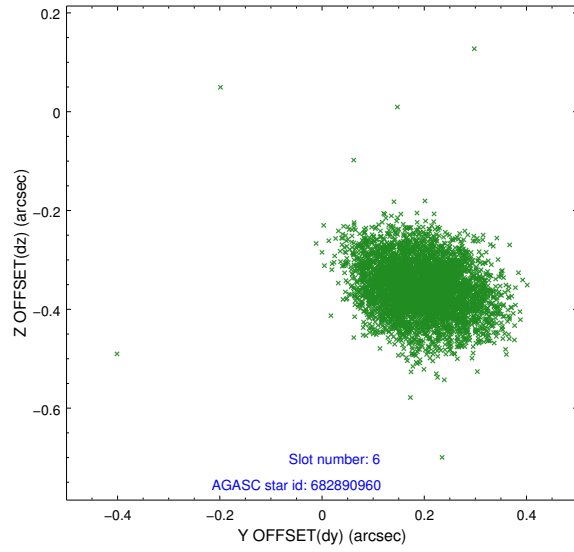
2.4.2 Slot 4



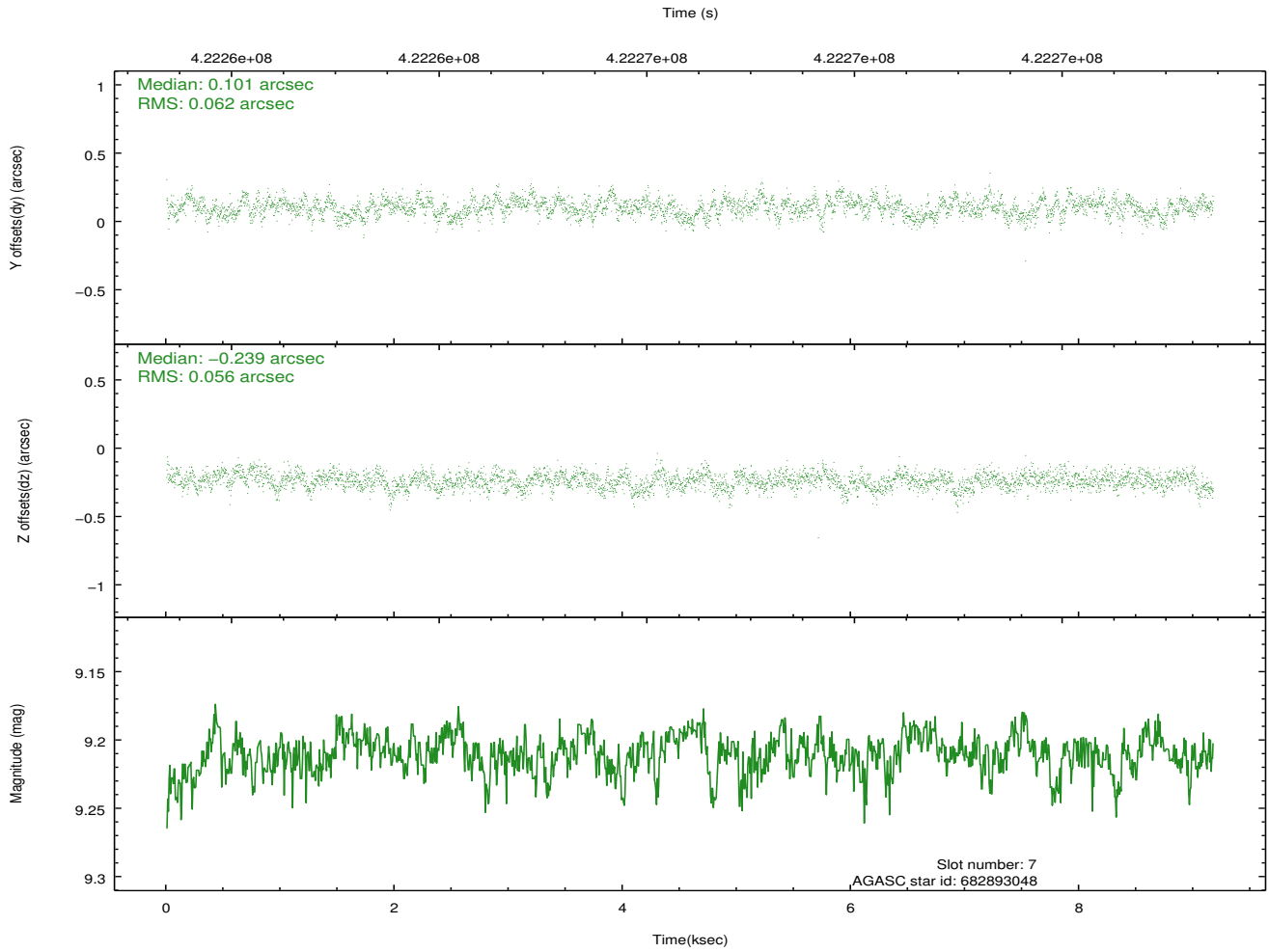
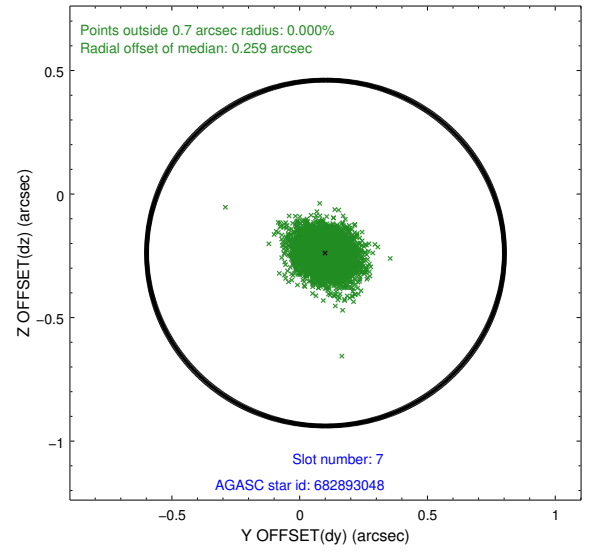
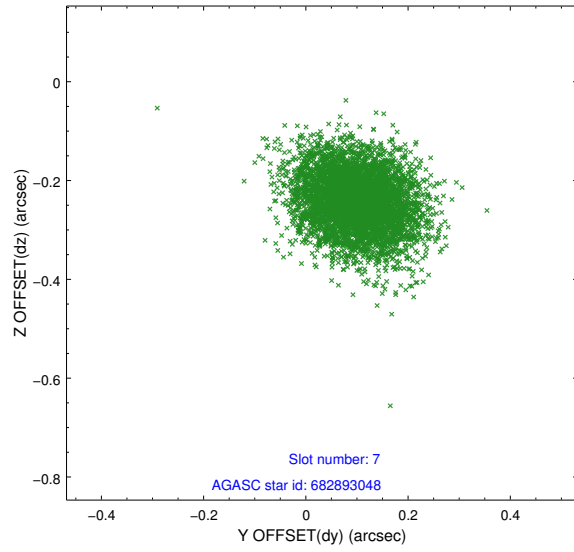
2.4.3 Slot 5



2.4.4 Slot 6

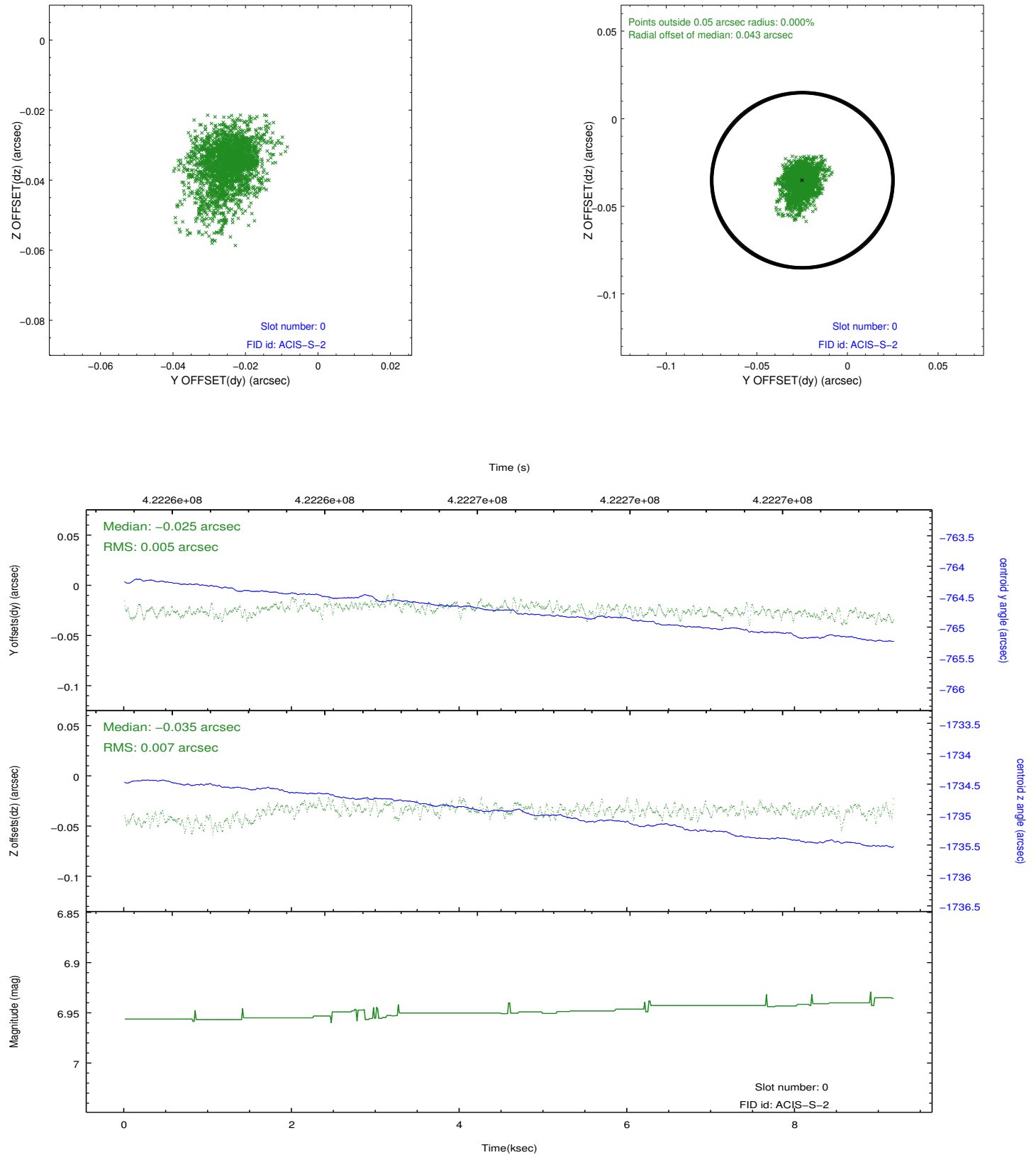


2.4.5 Slot 7

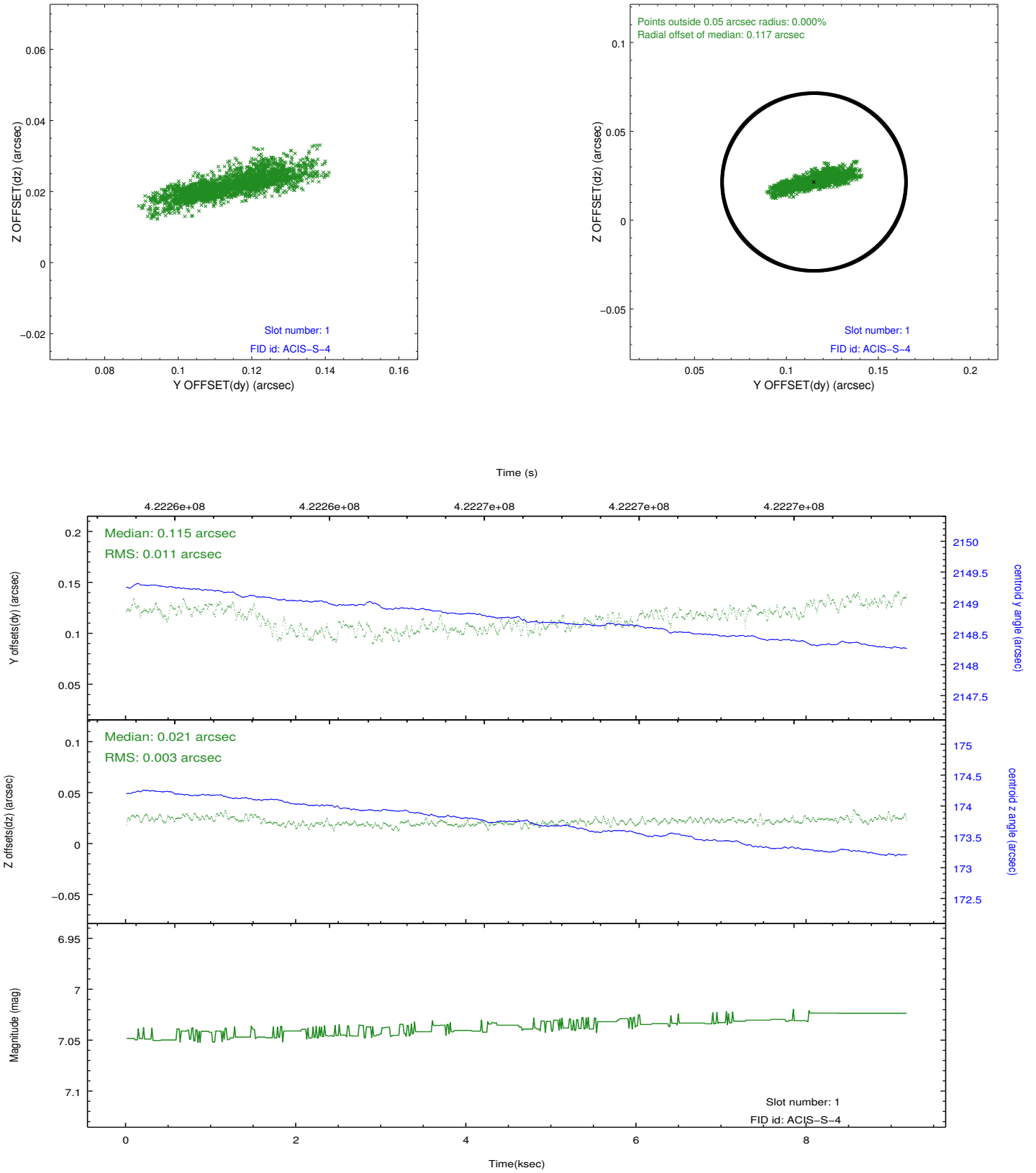


2.5 FID Slots

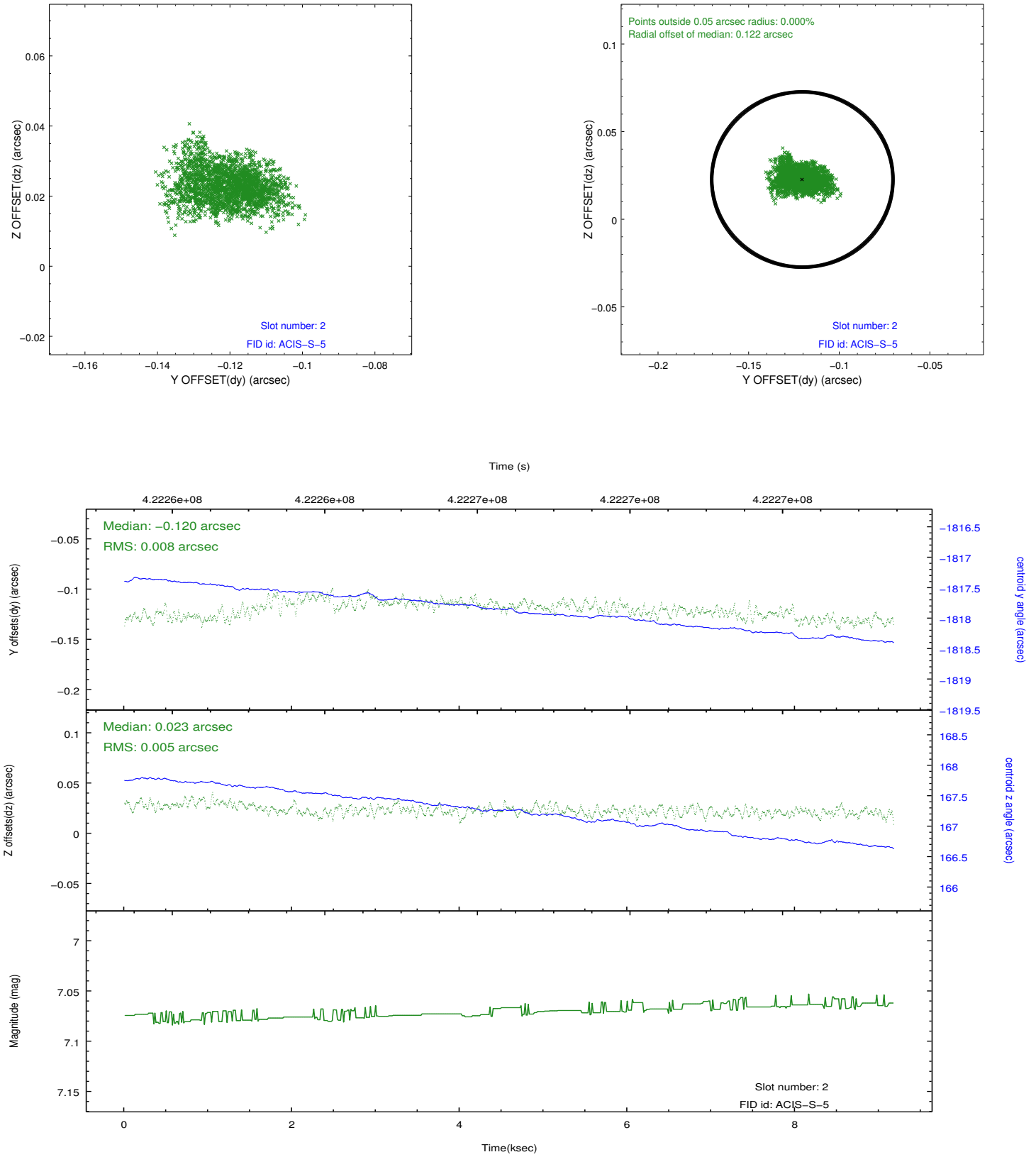
2.5.1 Slot 0



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	9.0268848559856

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.