

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12945 - L2 Version 2
Chandra X-Ray Center

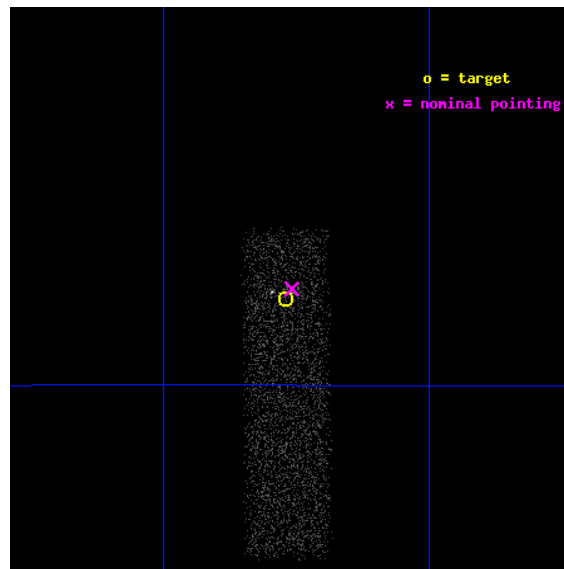
L2 Processing Date : Feb 8 2012

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1 Front

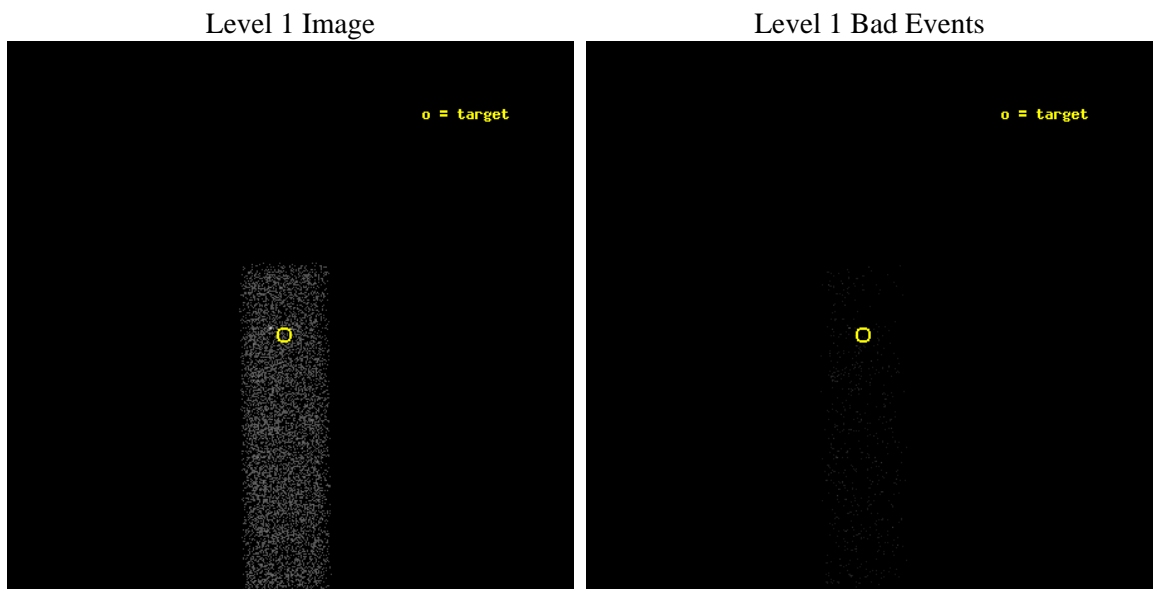
seq_num	900977	Sequence number
obs_id	12945	Observation id
title	Chandra Studies of Unidentified X-ray Sources in the Galactic Bulge	
observer	Dr. Hideyuki Mori	Principal investigator
object	1RXS J173916.2-214746	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.8175	Observer's specified target RA [deg]
dec_targ	-21.796111	Observer's specified target Dec [deg]
ra_nom	264.81473447213	Nominal RA [deg]
dec_nom	-21.791867589033	Nominal Dec [deg]
roll_nom	89.388852221829	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4026.3030082583	Sum of GTIs [s]
livetime	3829.8325960795	Livetime [s]
ontime7	4026.3030082583	Sum of GTIs [s]
l2events	4803	Number of level 2 events



2 OBI

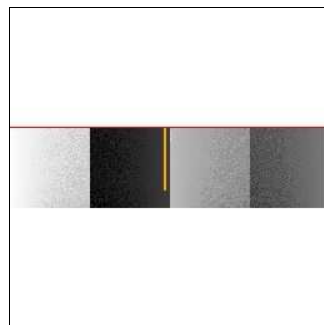
2.1 OBI

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	4026.3030082583	Sum of GTIs [s]
caldsver	4.4.7	 	ontime7	4026.3030082583	Sum of GTIs [s]
date	2012-02-08T21:57:49	Date and time of file creation	l1events	9381	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

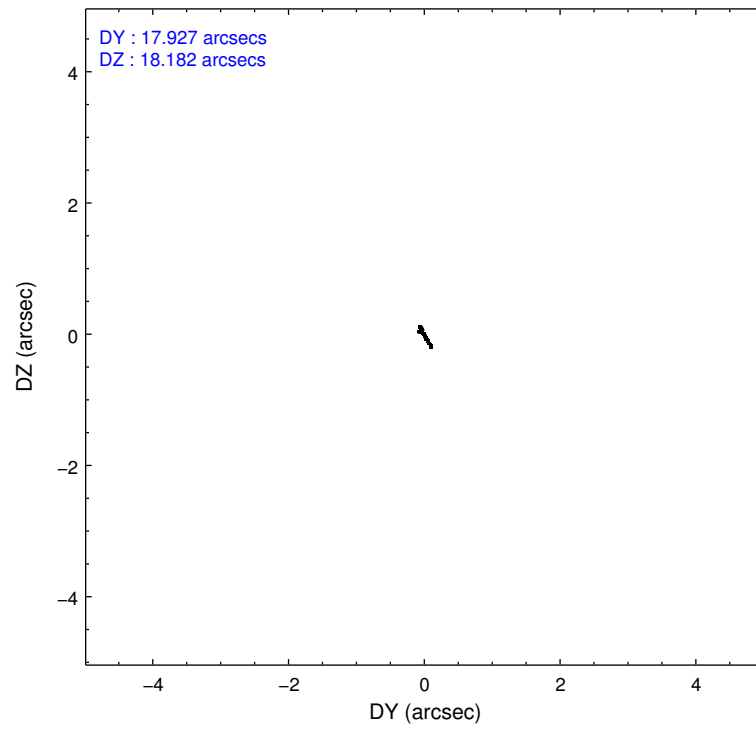
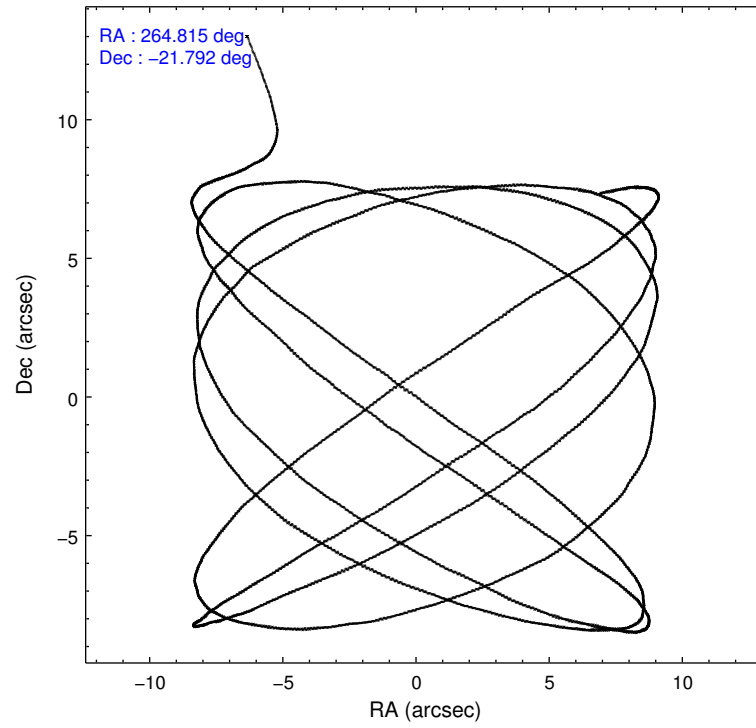
	ccd 7
level 1 events	9381
rejected events	4423
rejected %	47%

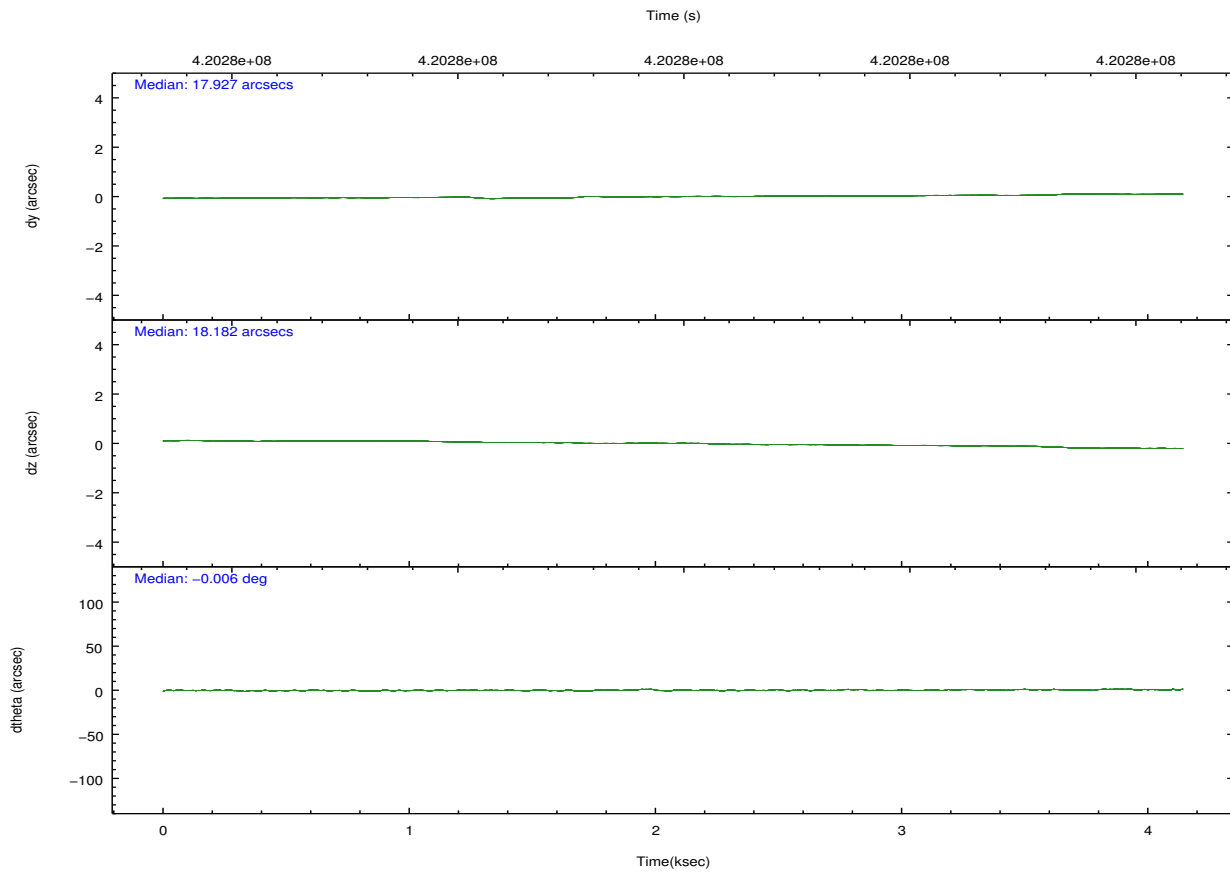
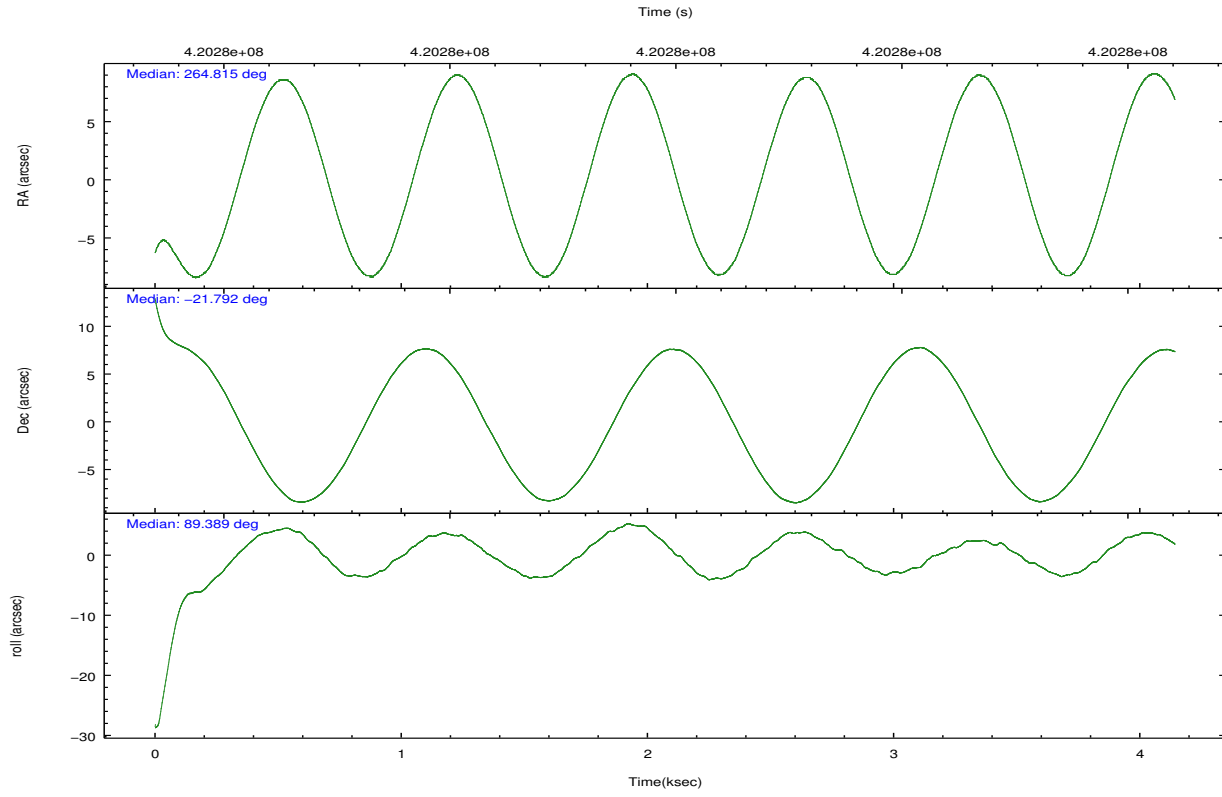
	ccd 7
grade 0 events	595
	6%
grade 1 events	10
	0%
grade 2 events	1055
	11%
grade 3 events	608
	6%
grade 4 events	564
	6%
grade 5 events	943
	10%
grade 6 events	2142
	22%
grade 7 events	3464
	36%

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	264.829612	264.8147344721253	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-21.815595	-21.79186758903332	Subarray start row	385	385
[deg] Pointing Roll	89.237803	89.38885222182866	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)	420278031.184000	420277056.48046			
Observation start date	2011-04-27T07:52:45	2011-04-27T07:37:36			
[s] Observation end time (MET)	420282031.184000	420283184.44327			
Observation end date	2011-04-27T08:59:25	2011-04-27T09:19:44			
Read mode	TIMED	TIMED			

2.3 Aspect



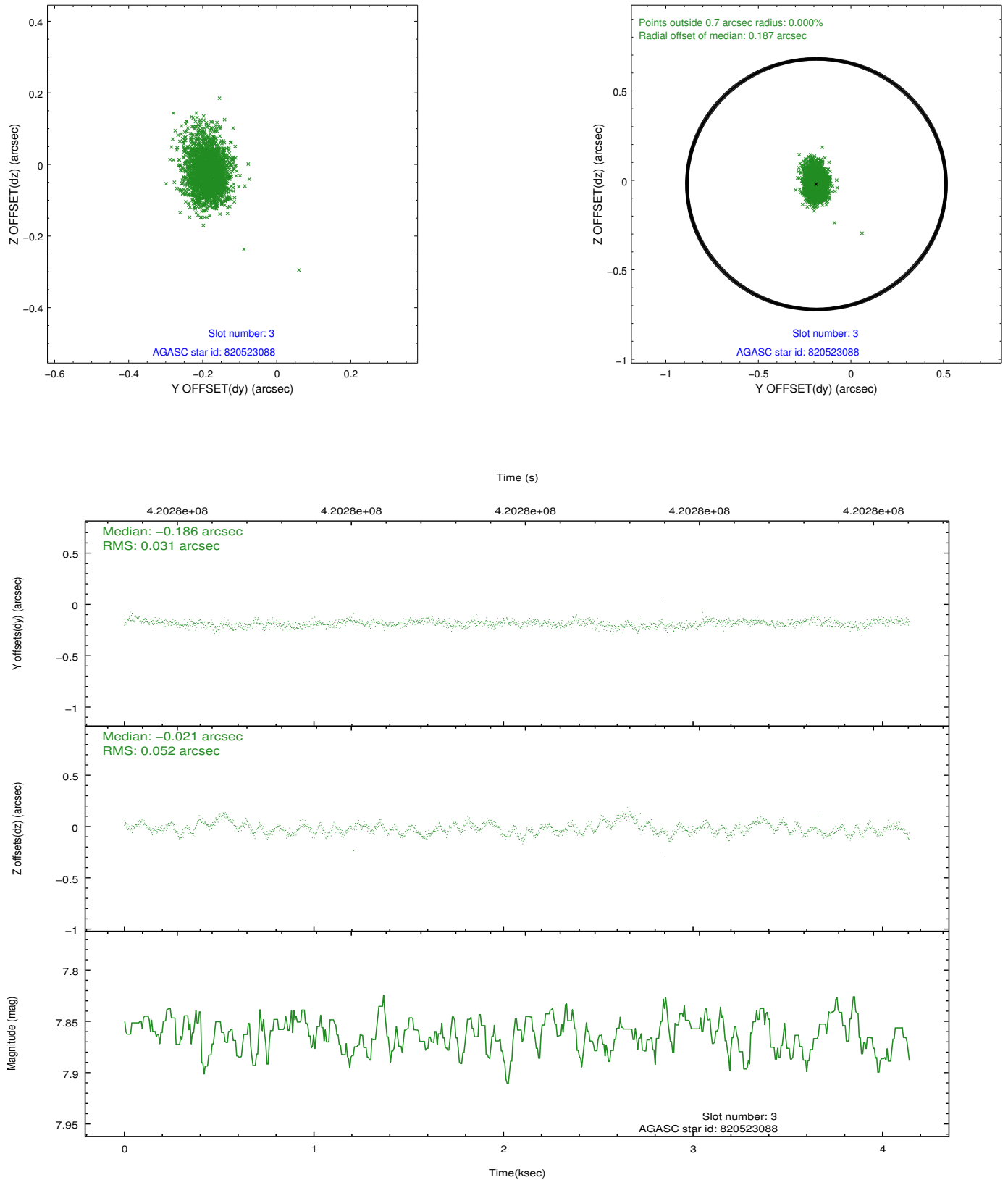


Slot Statistics

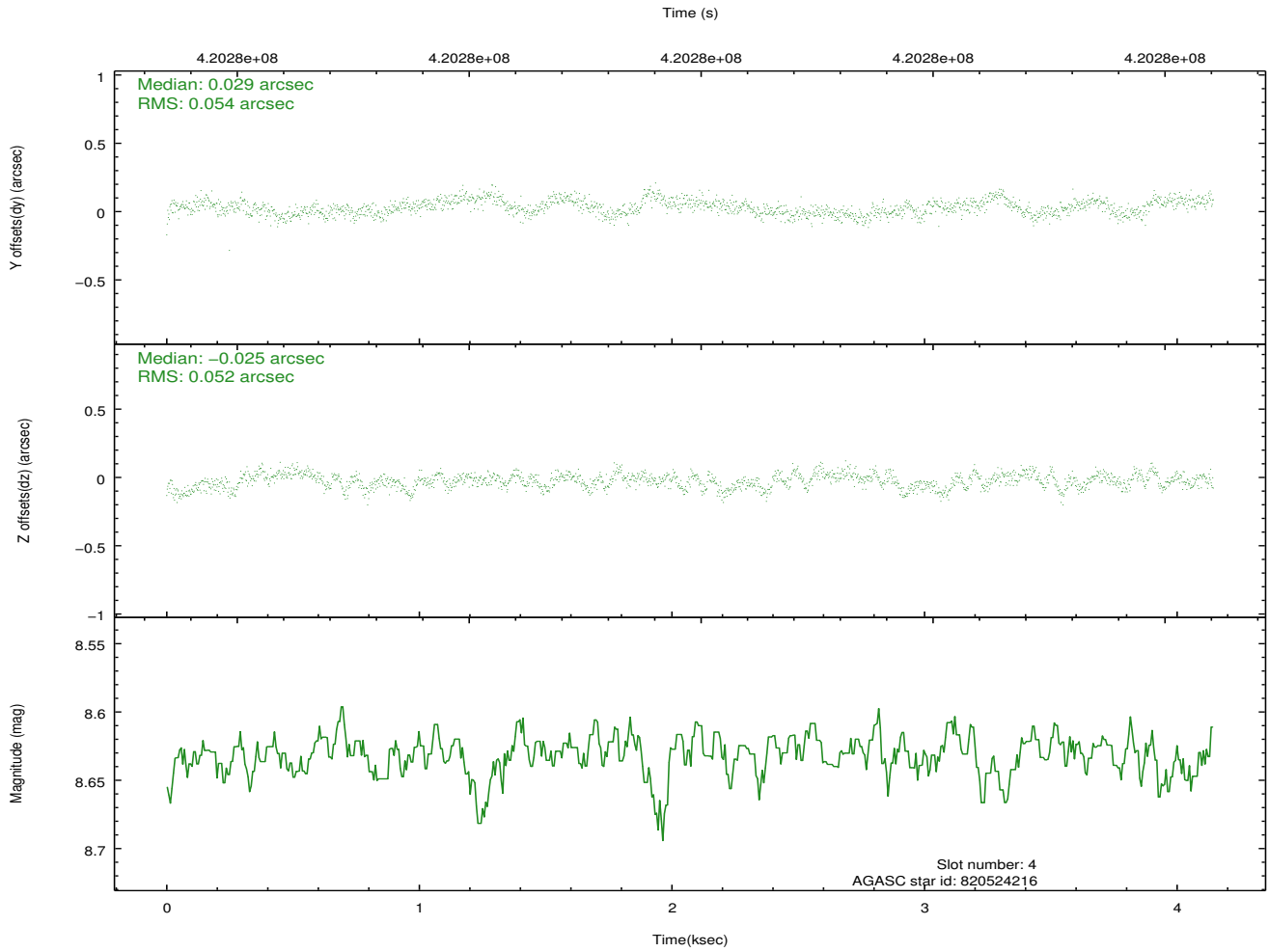
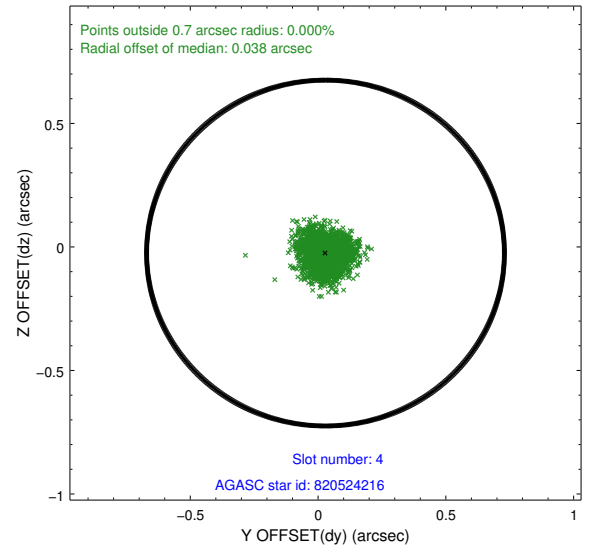
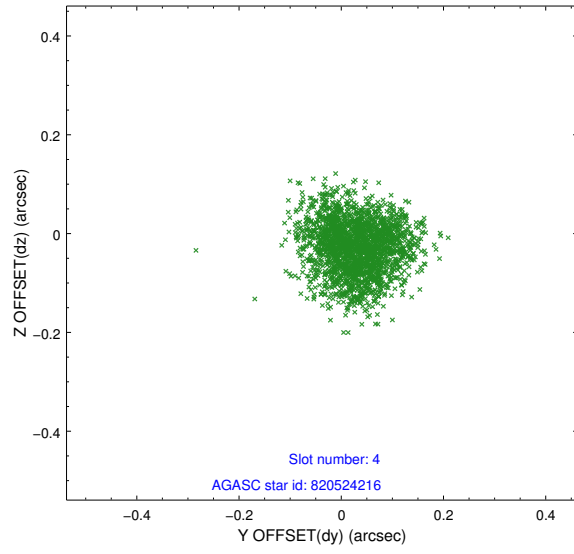
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.00	1011	0.112	-0.035	0.008	0.015	0.000000	0.000000	925.20	-1735.28
1	FID	ACIS-S-5	7.05	1010	-0.136	0.093	0.007	0.012	0.000000	0.000000	-1823.24	160.81
2	FID	ACIS-S-6	7.16	1011	0.003	-0.047	0.007	0.012	0.000000	0.000000	388.97	806.36
3	GUIDE	820523088	7.86	2022	-0.186	-0.021	0.062	0.108	264.598441	-21.521282	1048.10	788.00
4	GUIDE	820524216	8.63	2022	0.029	-0.025	0.081	0.124	264.706905	-21.656011	568.92	418.46
5	GUIDE	820524840	9.23	2017	0.049	0.102	0.119	0.194	264.533990	-21.576308	847.41	1001.39
6	GUIDE	820526048	8.72	2014	0.008	0.002	0.071	0.113	264.425334	-21.256370	1993.45	1383.41
7	GUIDE	820526624	9.10	2020	0.103	-0.045	0.104	0.166	264.120973	-22.441088	-2287.70	2328.23

2.4 Star Slots

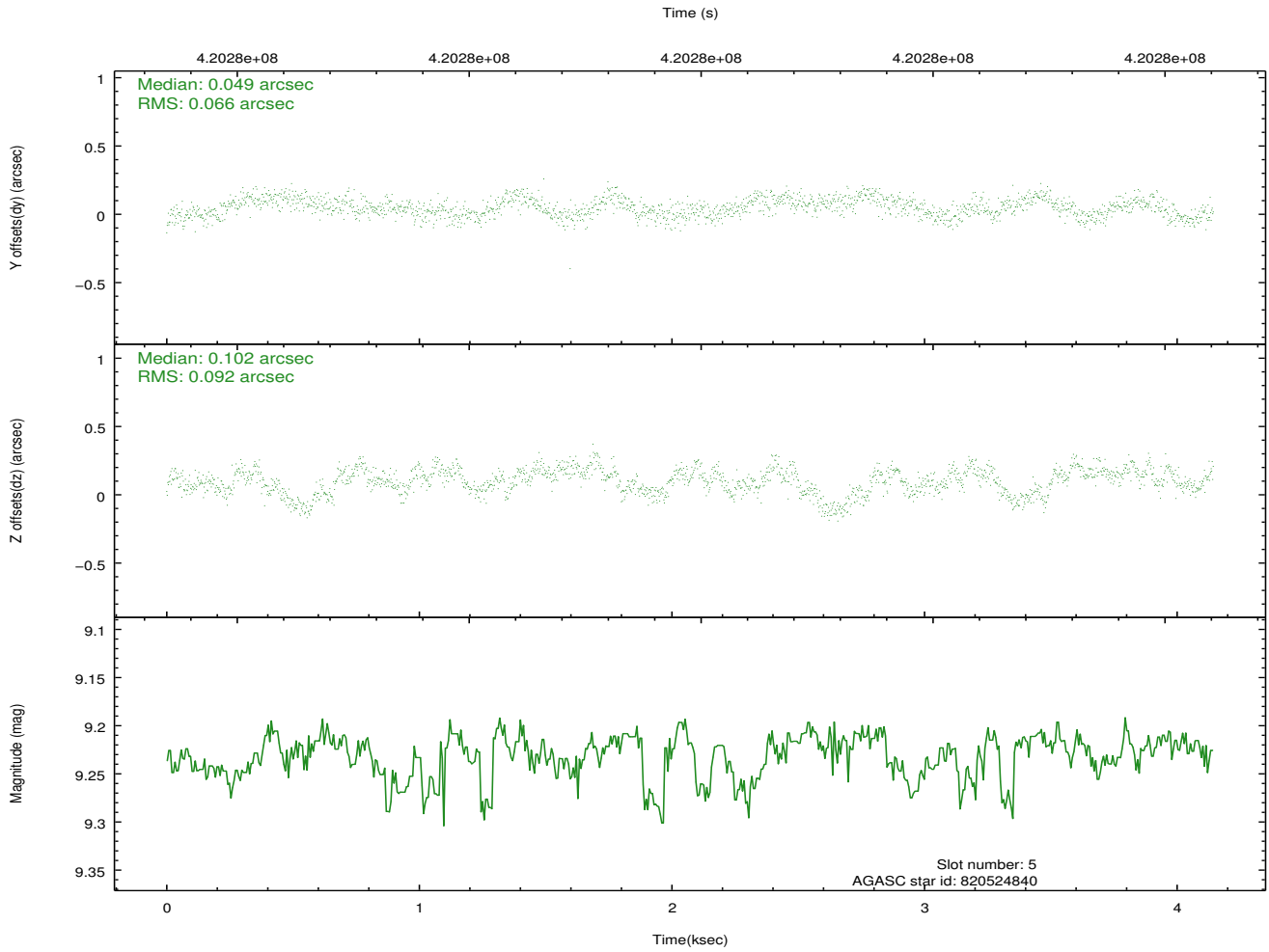
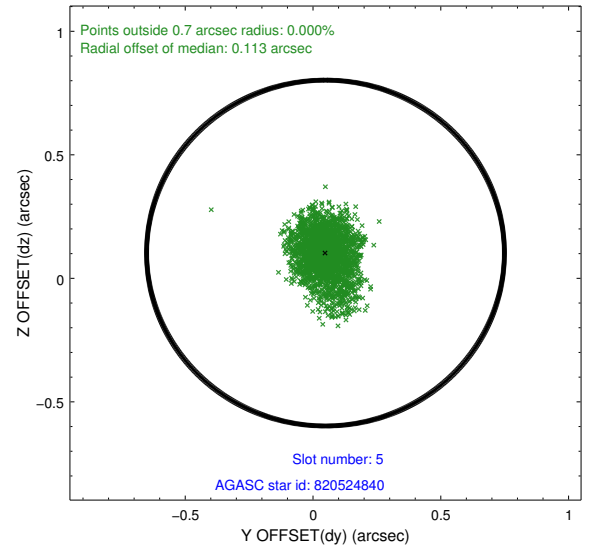
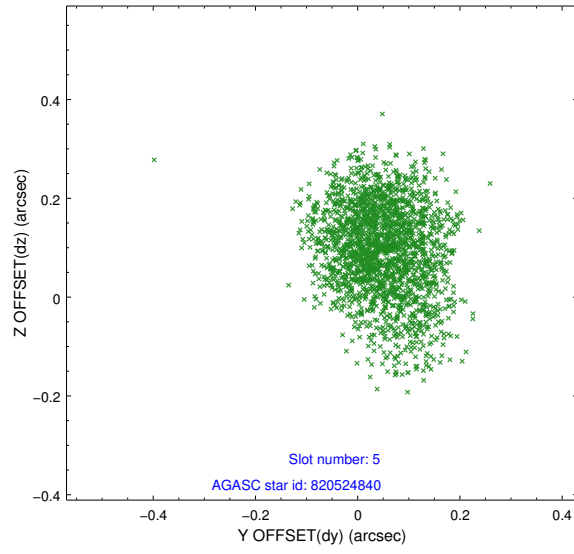
2.4.1 Slot 3



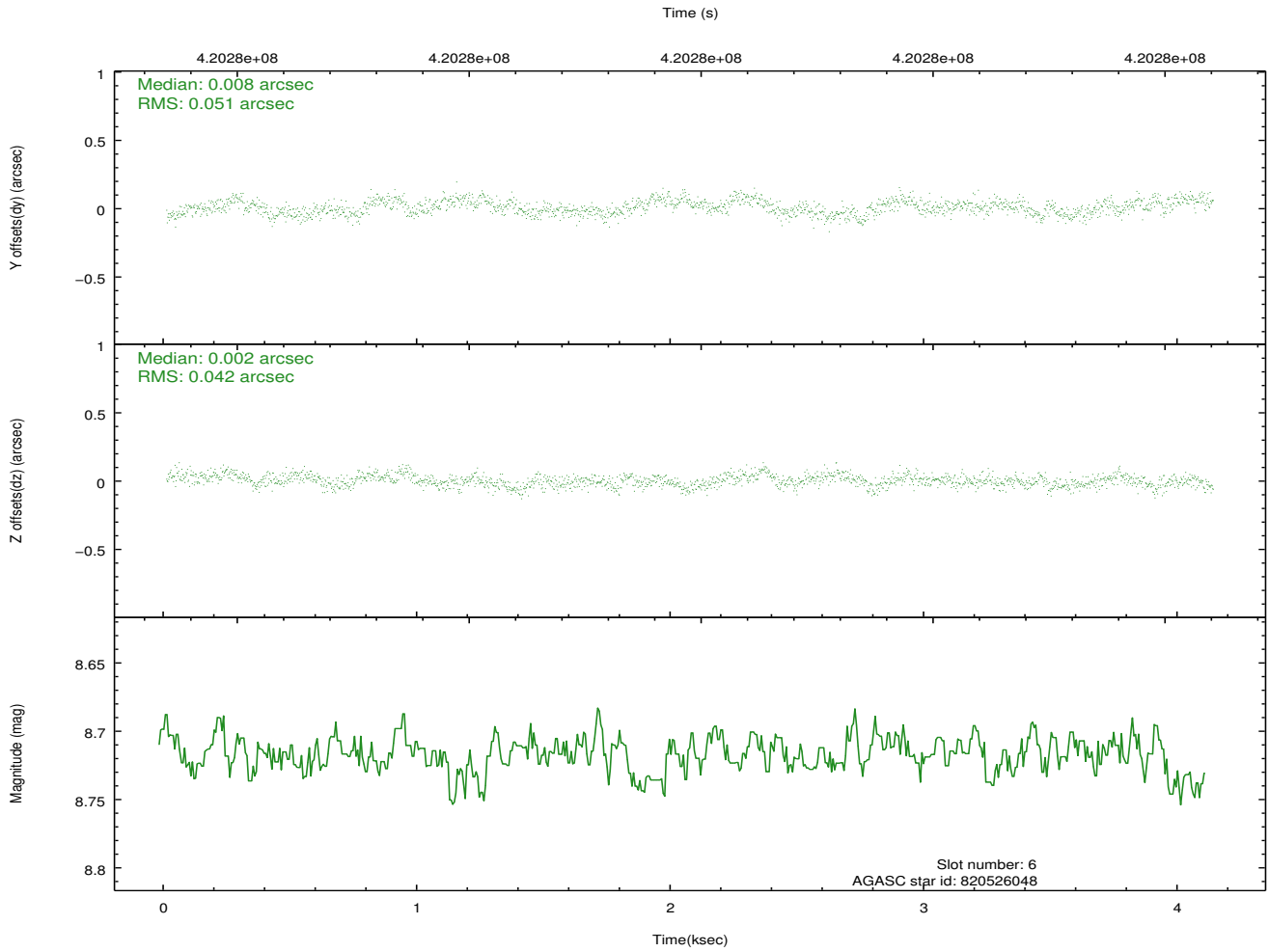
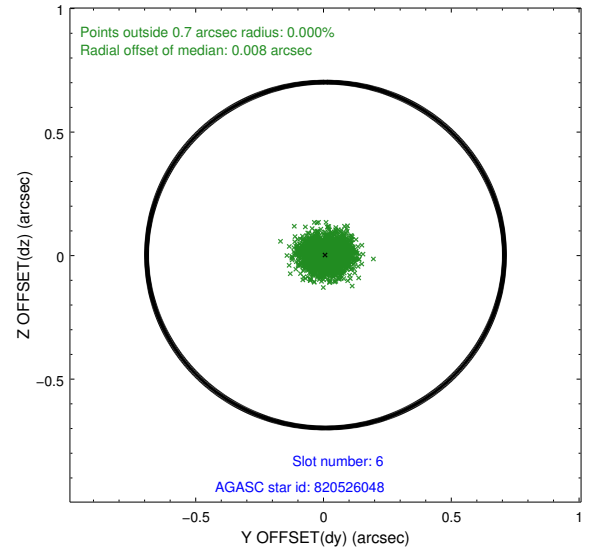
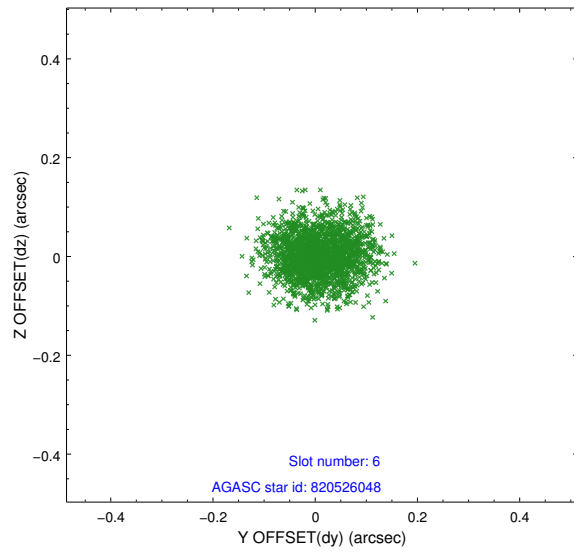
2.4.2 Slot 4



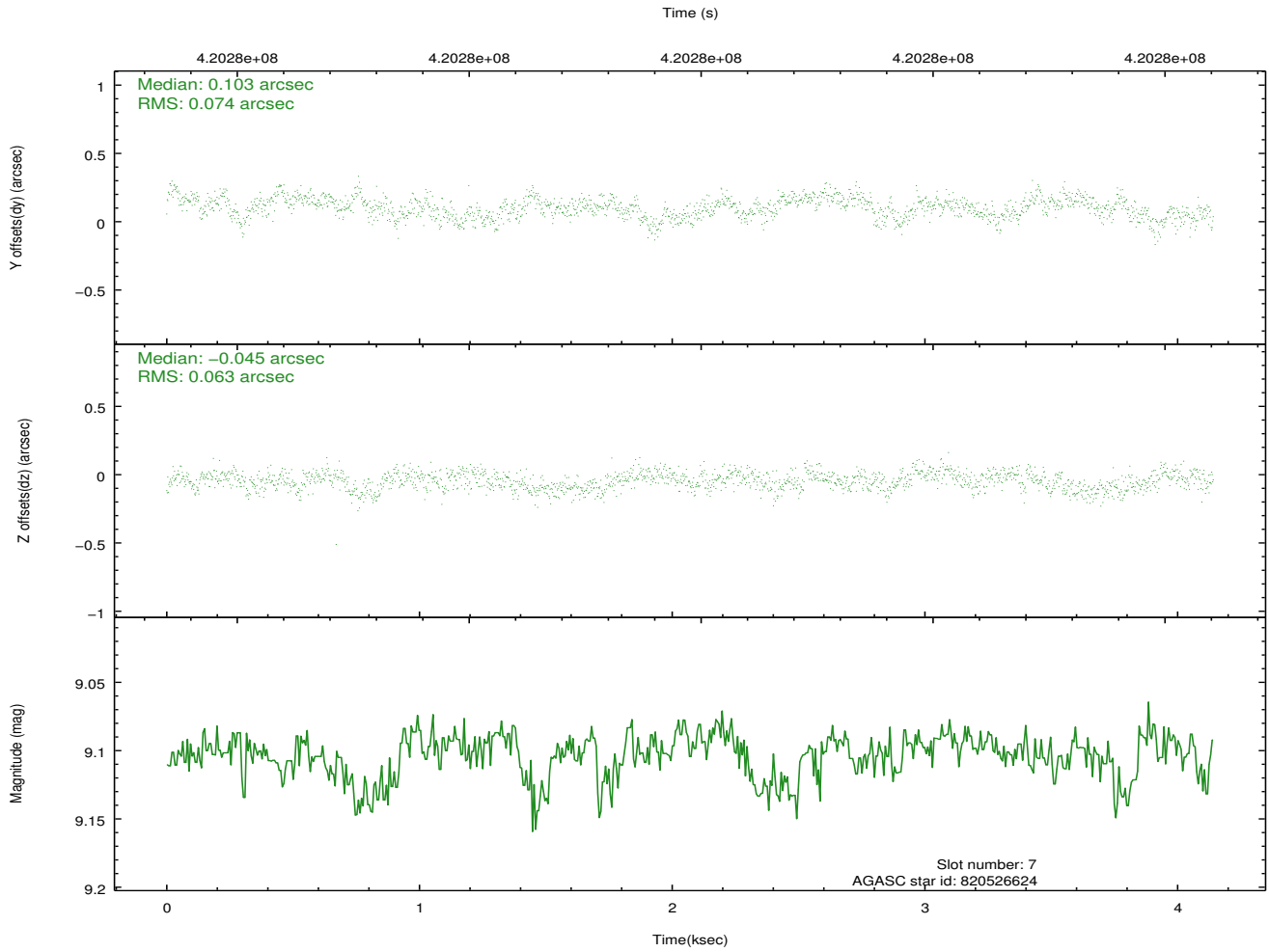
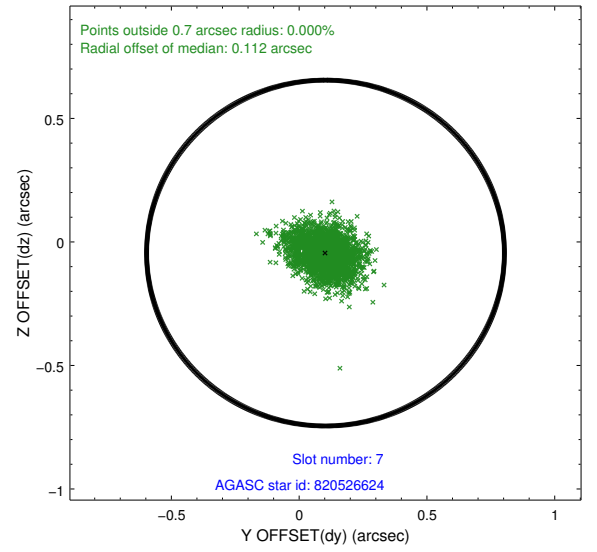
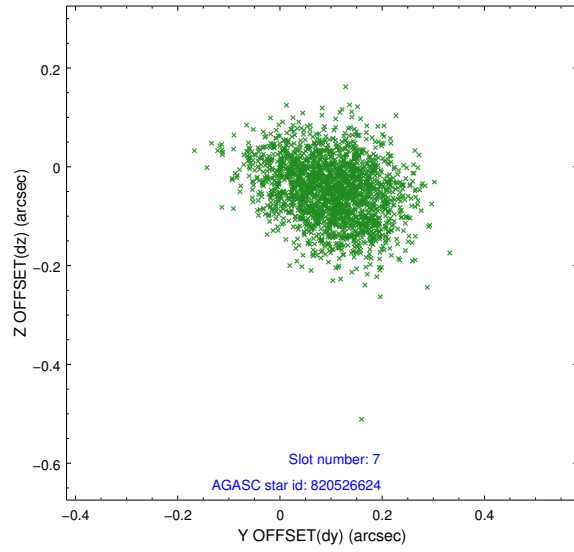
2.4.3 Slot 5



2.4.4 Slot 6

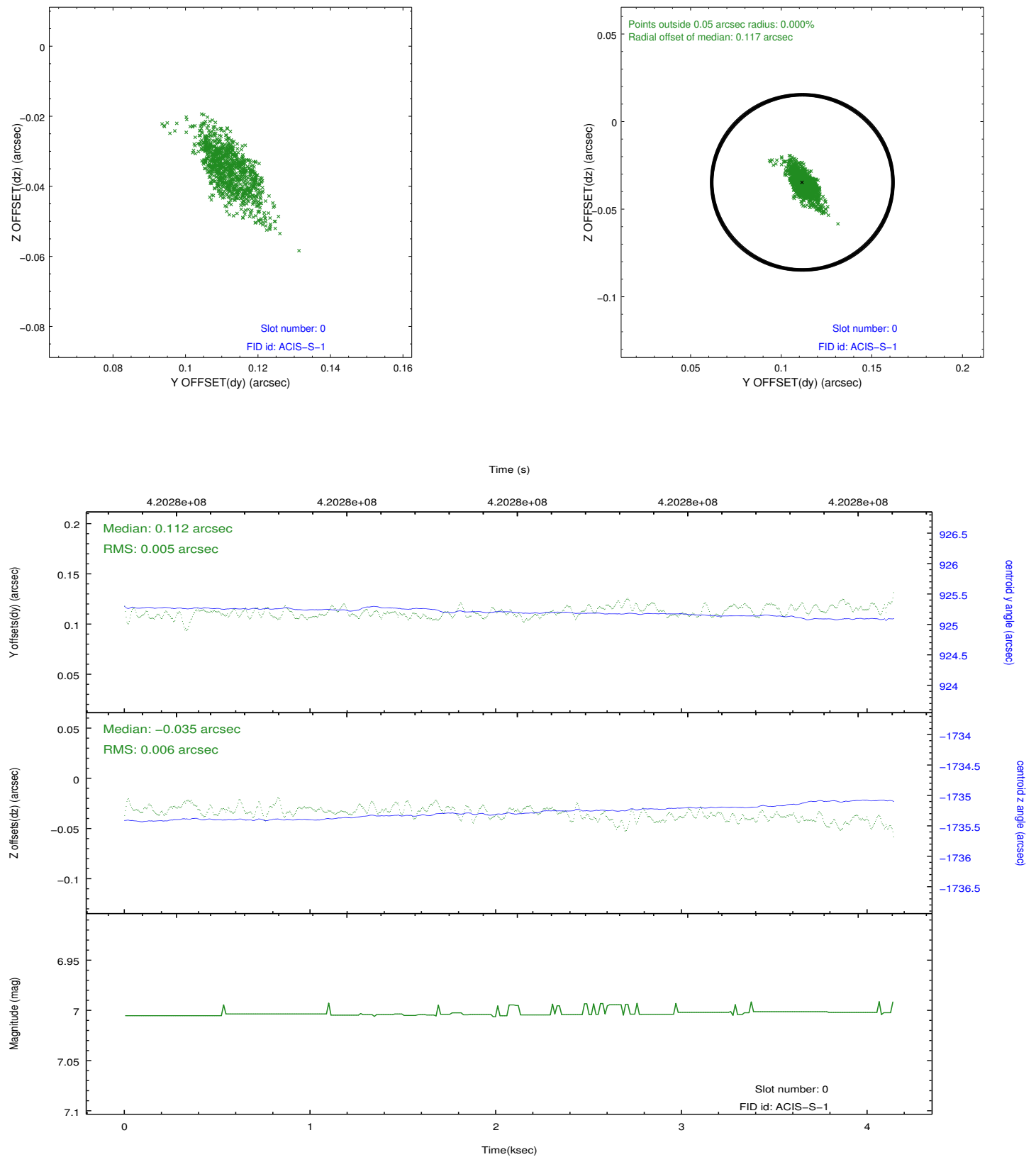


2.4.5 Slot 7

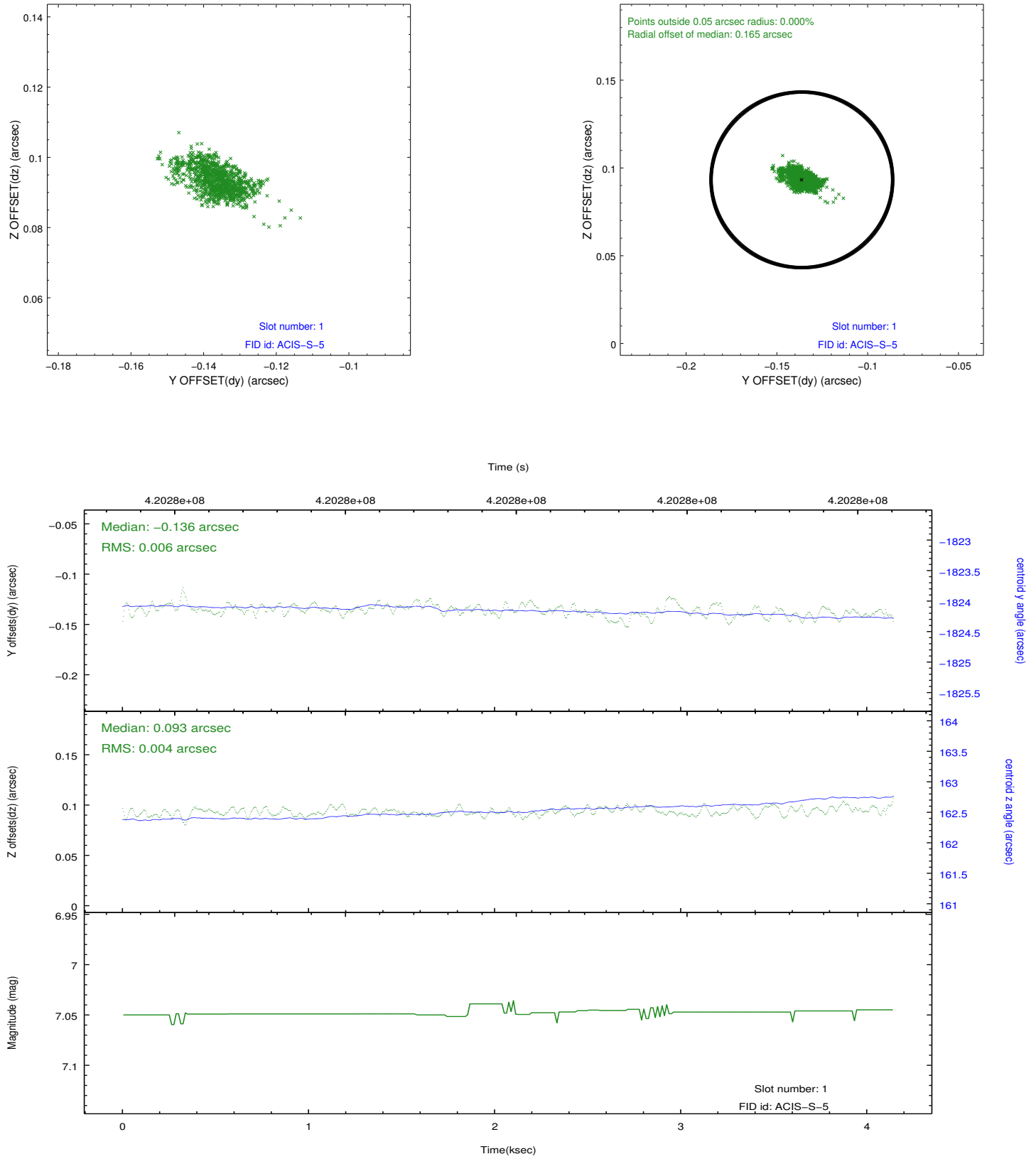


2.5 FID Slots

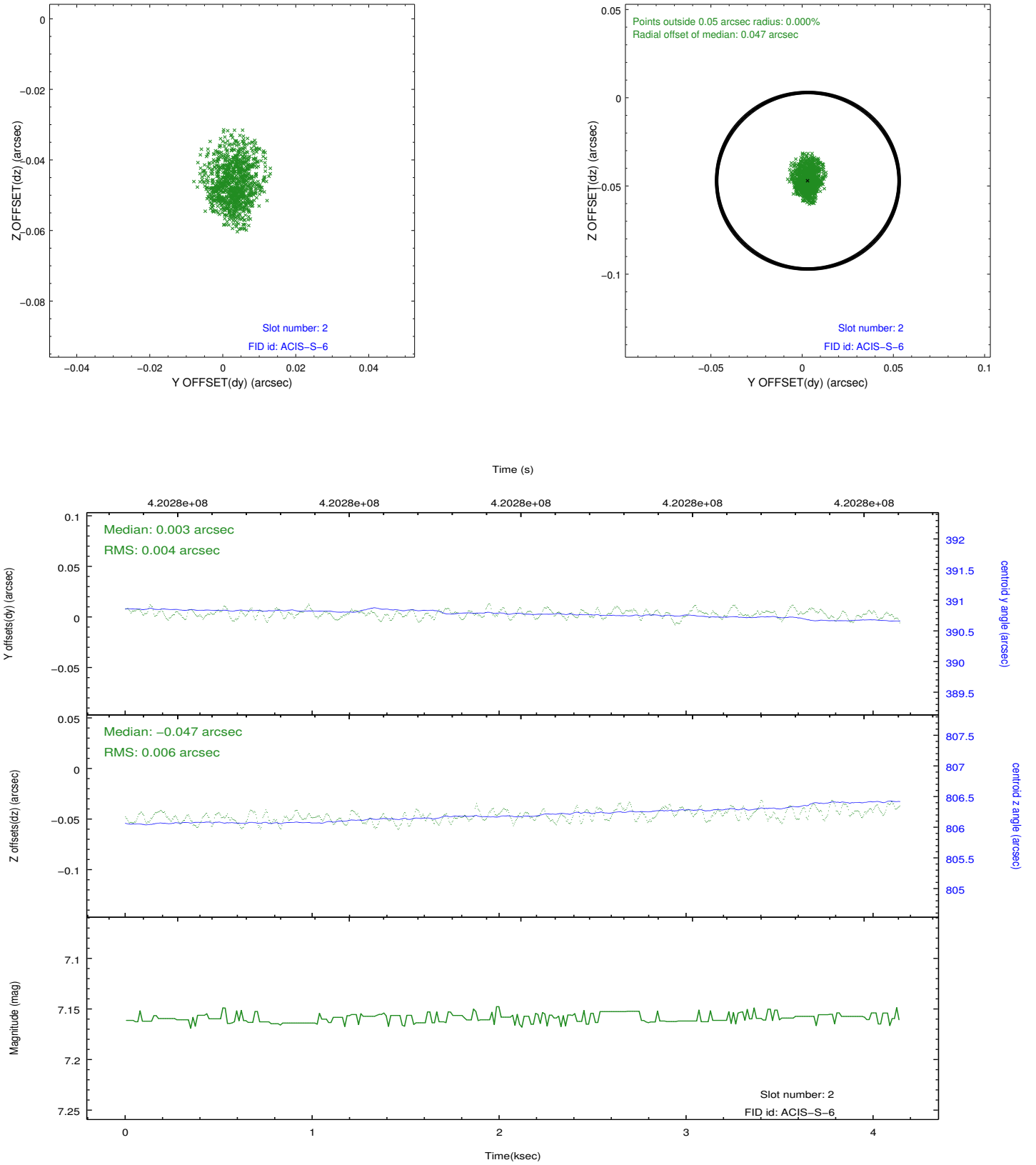
2.5.1 Slot 0



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	4.026303001523

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.