

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16644 - L2 Version 1
Chandra X-Ray Center

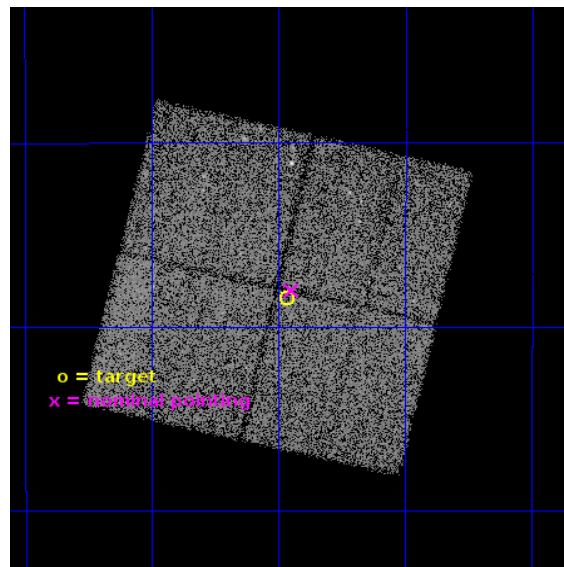
L2 Processing Date : Aug 7 2014

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1 Front

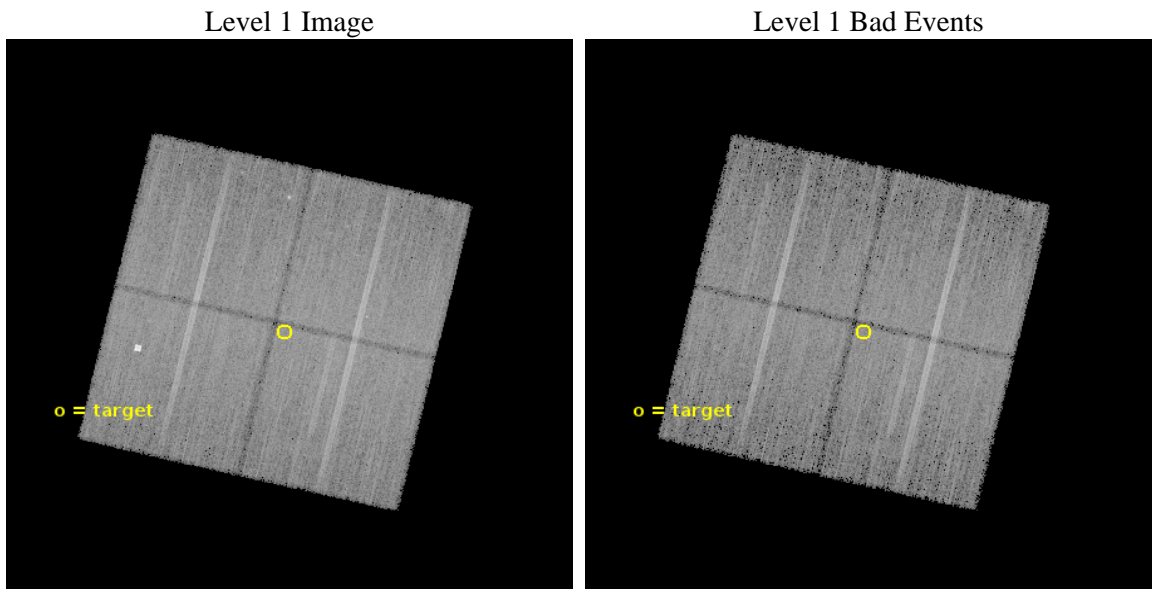
seq_num	901115	Sequence number
obs_id	16644	Observation id
title	The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe	Proposal title
observer	Prof. W.N. Brandt	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.117083	Observer's specified target RA [deg]
dec_targ	-27.807333	Observer's specified target Dec [deg]
ra_nom	53.112384335496	Nominal RA [deg]
dec_nom	-27.800293582636	Nominal Dec [deg]
roll_nom	103.20648527441	Nominal Roll [deg]
revision	1	Processing version of data
ontime	44590.400342941	Sum of GTIs [s]
livetime	44007.793935486	Livetime [s]
ontime0	44590.400342941	Sum of GTIs [s]
ontime1	44587.259382486	Sum of GTIs [s]
ontime2	44587.259382546	Sum of GTIs [s]
ontime3	44590.400342941	Sum of GTIs [s]
l2events	86999	Number of level 2 events



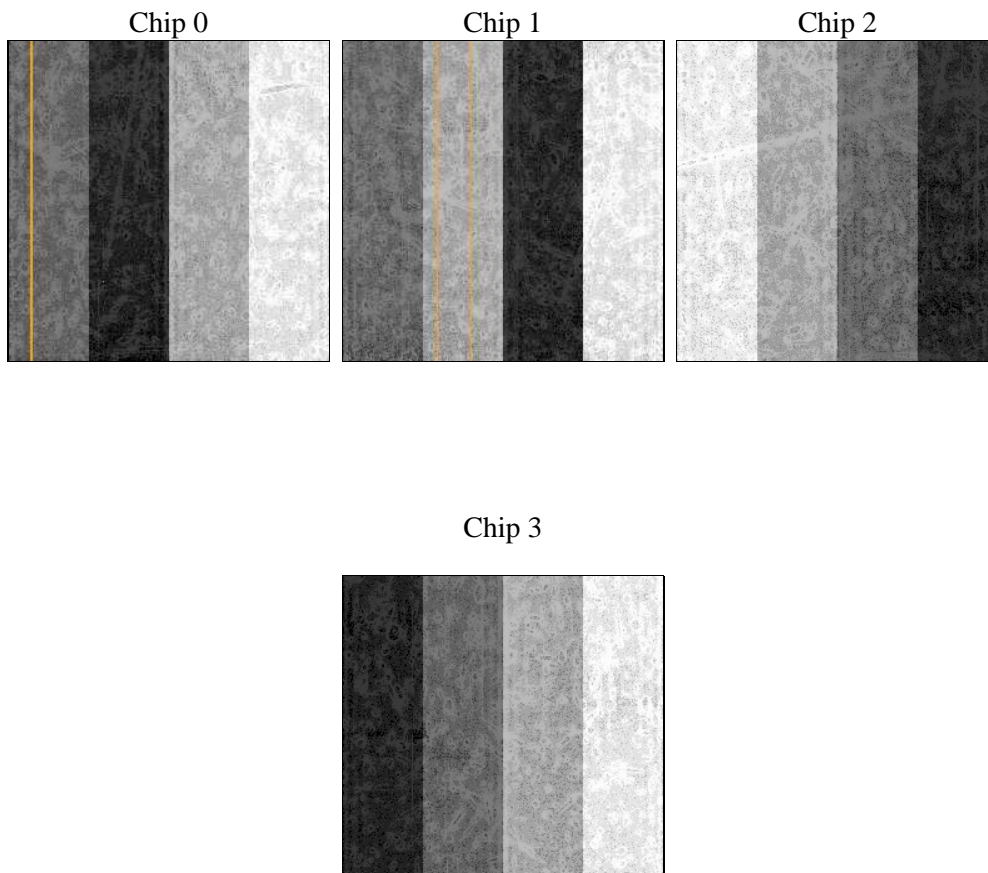
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44500.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	44590.400342941	Sum of GTIs [s]
caldbver	4.6.2	 	ontime0	44590.400342941	Sum of GTIs [s]
date	2014-08-07T04:52:15	Date and time of file creation	ontime1	44587.259382486	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	44587.259382546	Sum of GTIs [s]
			ontime3	44590.400342941	Sum of GTIs [s]
			l1events	829245	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	195834	209961	214764	208686
rejected events	169197	174989	189464	184948
rejected %	86%	83%	88%	88%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9473	15993	8893	7815
	4%	7%	4%	3%
grade 1 events	107	147	115	126
	0%	0%	0%	0%
grade 2 events	6651	7083	6281	5453
	3%	3%	2%	2%
grade 3 events	2766	2834	2515	2620
	1%	1%	1%	1%
grade 4 events	2489	2807	2690	2641
	1%	1%	1%	1%
grade 5 events	10321	11011	9888	11526
	5%	5%	4%	5%
grade 6 events	5263	6262	4923	5211
	2%	2%	2%	2%
grade 7 events	158764	163824	179459	173294
	81%	78%	83%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	53.133819	53.11238433549571	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.820332	-27.80029358263622	Alternating exposures requested	N	N
[deg] Pointing Roll	103.007815	103.2064852744103	[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)	523705801.184000	523704229.30541			
Observation start date	2014-08-06T09:48:54	2014-08-06T09:23:49			
[s] Observation end time (MET)	523750301.184000	523751149.70801			
Observation end date	2014-08-06T22:10:34	2014-08-06T22:25:49			
Read mode	TIMED	TIMED			

2.3 Aspect

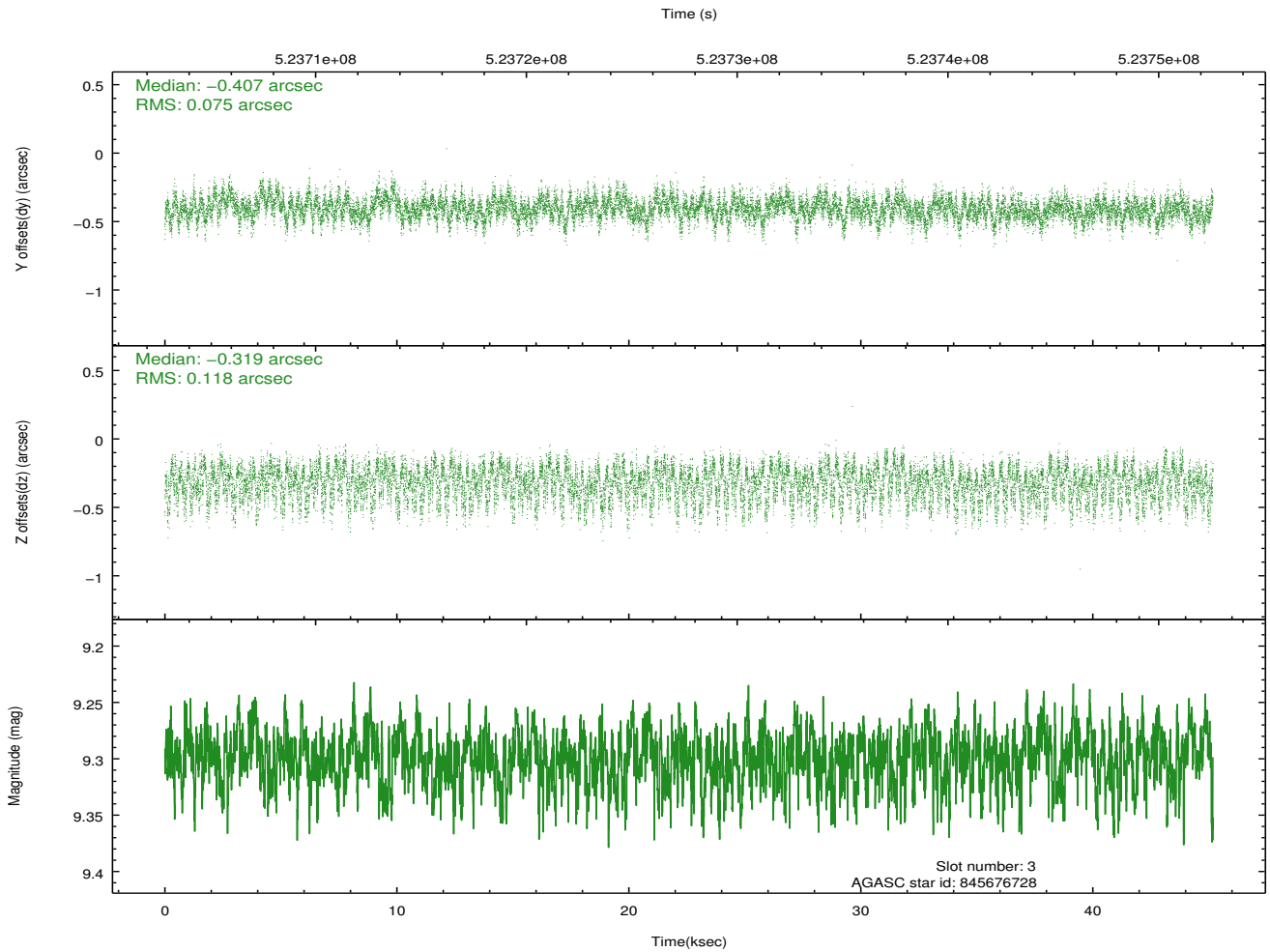
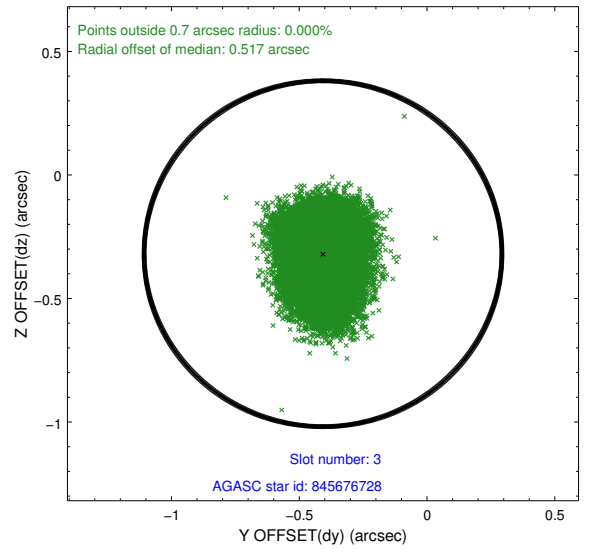
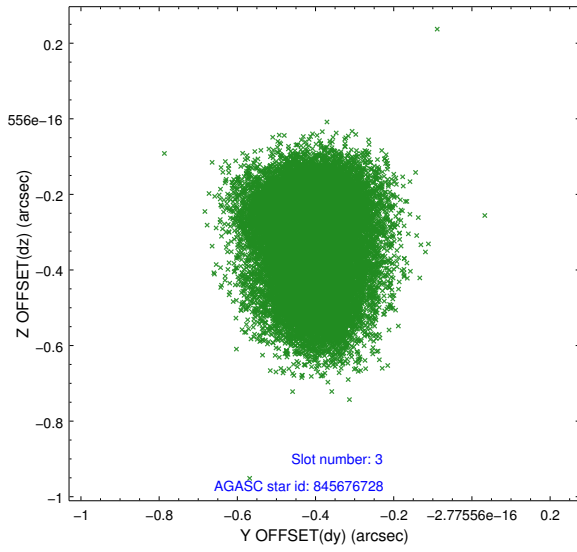
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.98	11020	-0.104	-0.071	0.016	0.034	0.000000	0.000000	-775.86	-850.07
1	FID	ACIS-I-4	7.01	11020	0.265	0.079	0.015	0.054	0.000000	0.000000	2138.50	1056.37
2	FID	ACIS-I-5	7.07	11020	-0.264	0.060	0.018	0.031	0.000000	0.000000	-1829.92	1054.04
3	GUIDE	845676728	9.30	22024	-0.407	-0.319	0.151	0.241	52.877179	-27.664318	730.47	671.03
4	GUIDE	845807880	8.81	22031	0.081	-0.029	0.105	0.168	53.382027	-27.886093	-408.75	-715.81
5	GUIDE	845808496	10.17	21823	0.237	0.071	0.233	0.367	53.777917	-27.725281	-133.14	-2075.41
6	BAD	845813656	10.15	21050	-0.204	0.000	0.248	0.378	53.922767	-28.083703	-1494.72	-2225.80
7	GUIDE	845814592	9.01	22021	0.303	0.283	0.126	0.194	53.853010	-28.336603	-2332.12	-1801.67

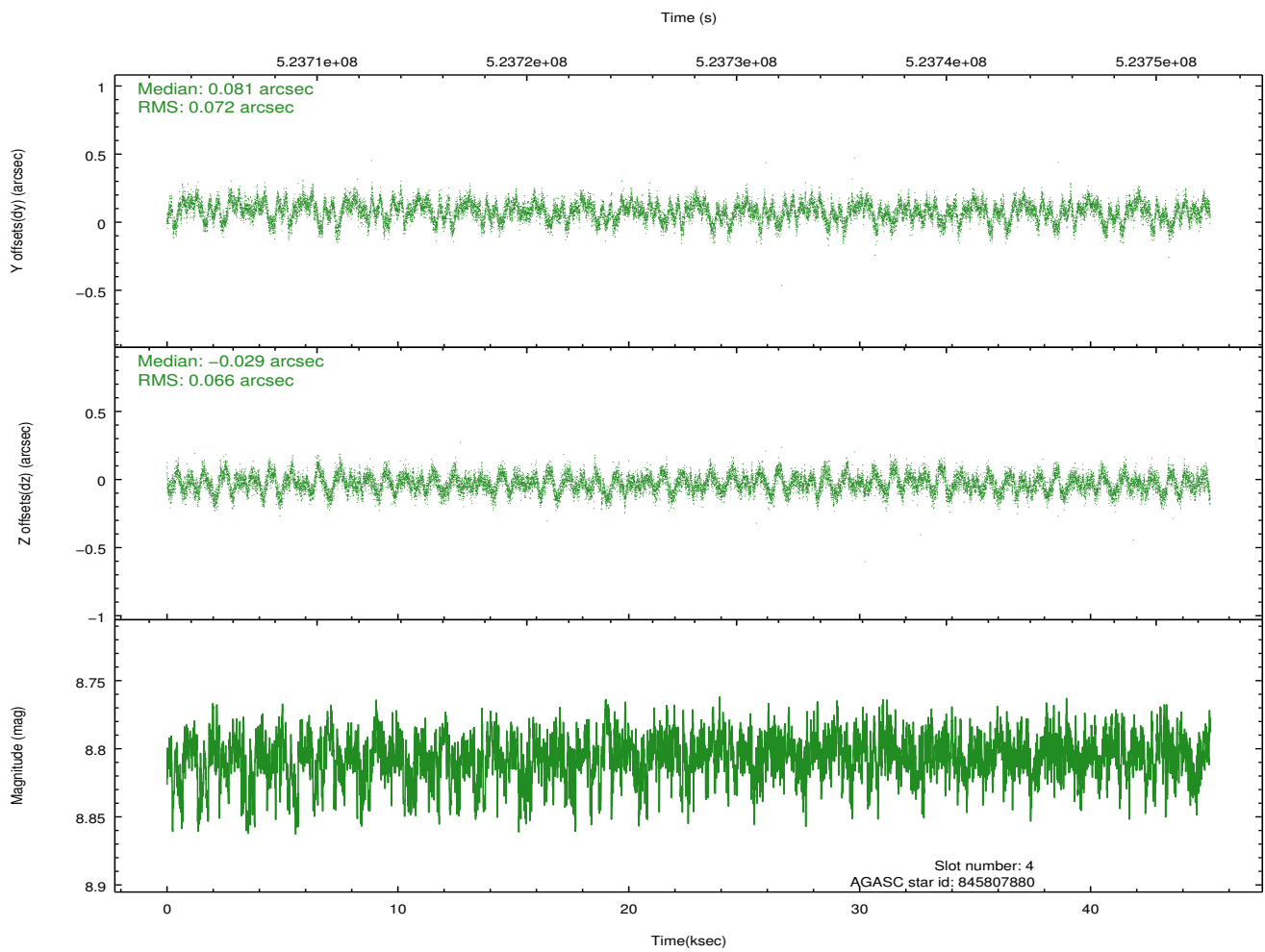
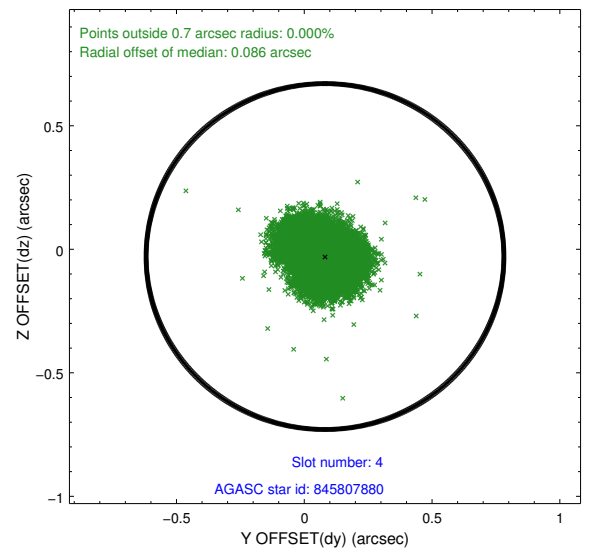
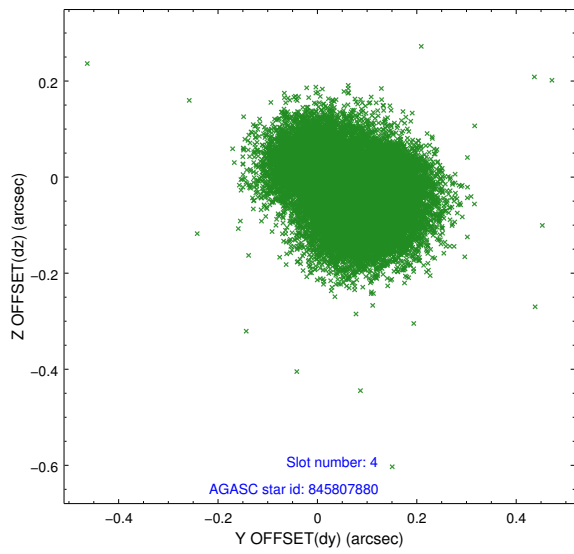
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2.4 Star Slots

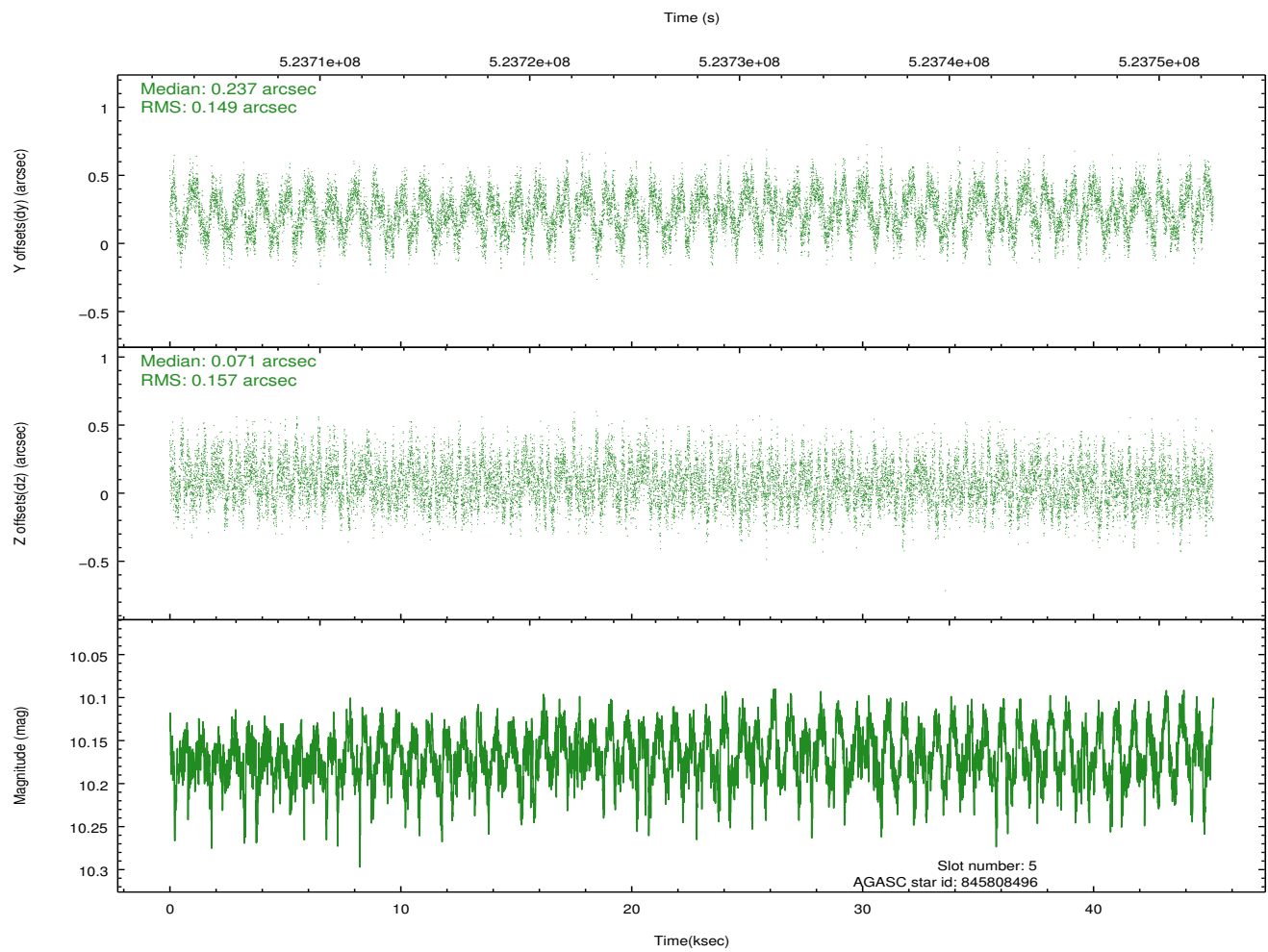
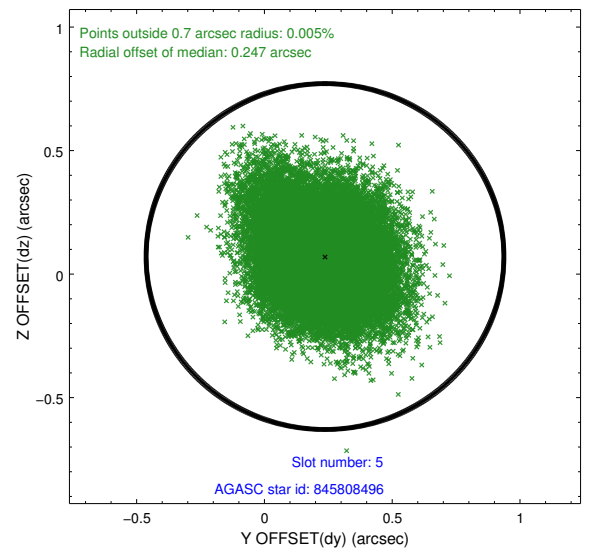
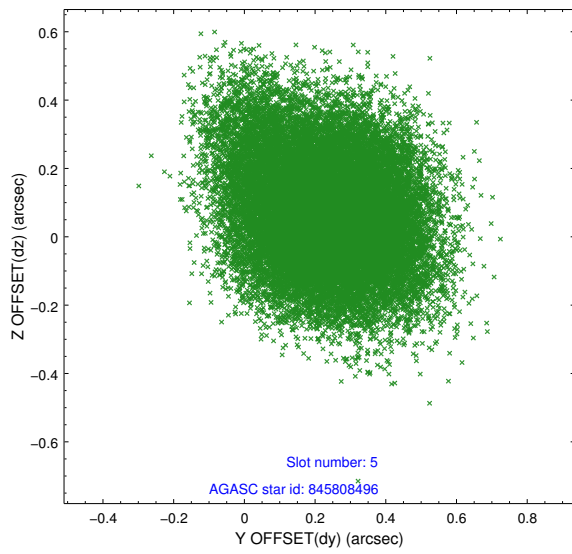
2.4.1 Slot 3



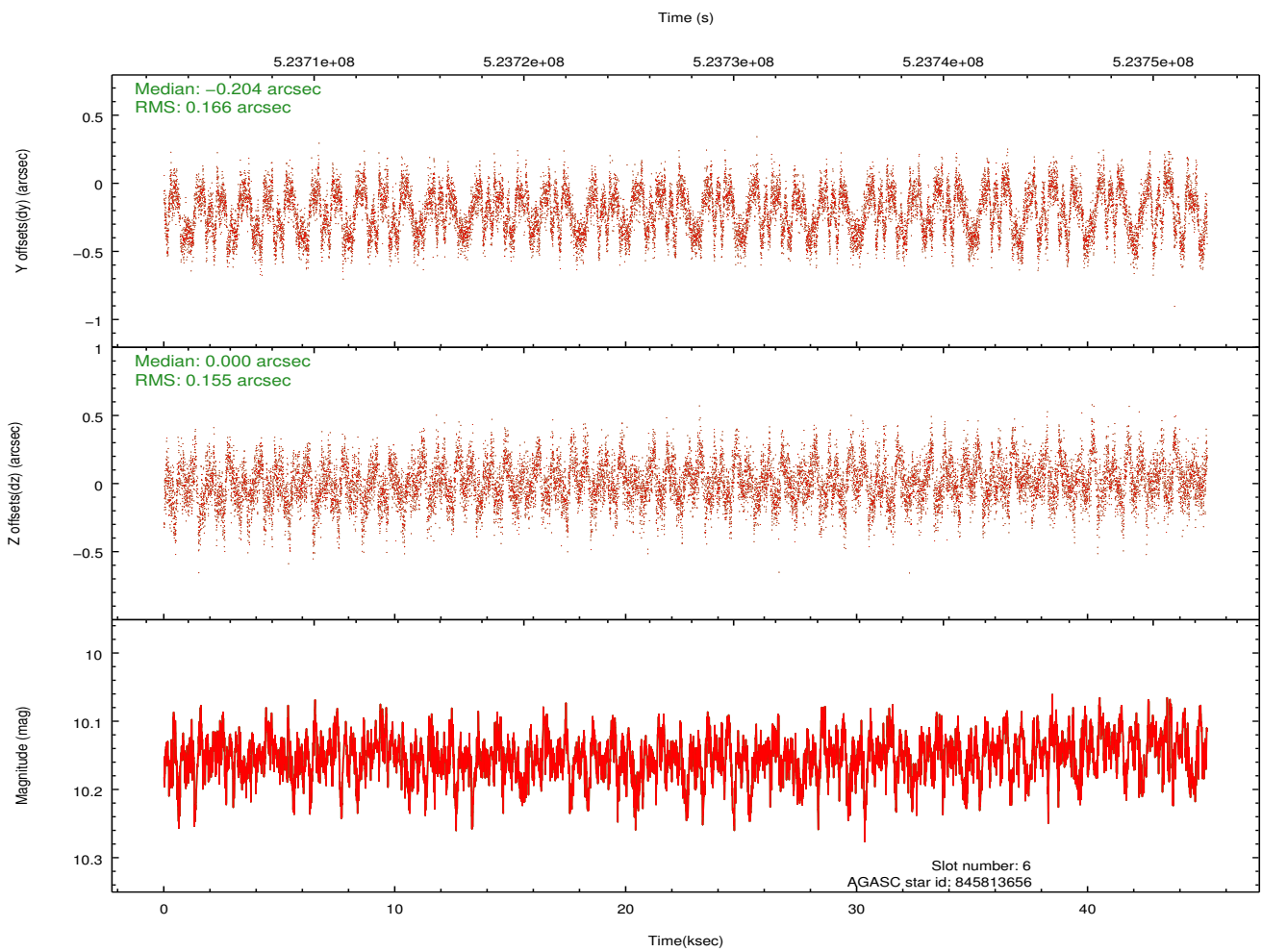
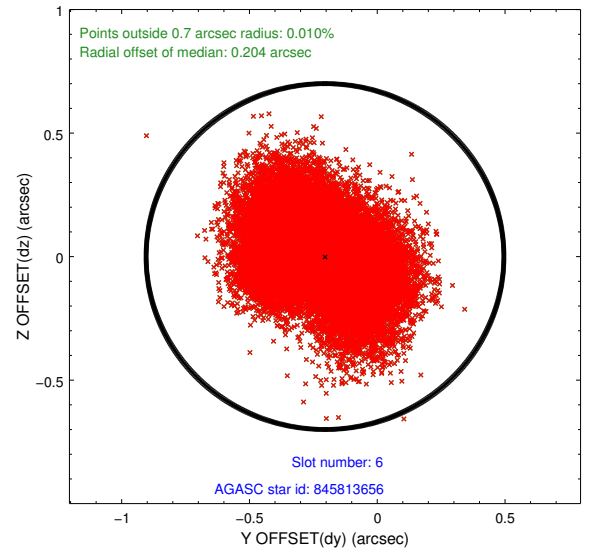
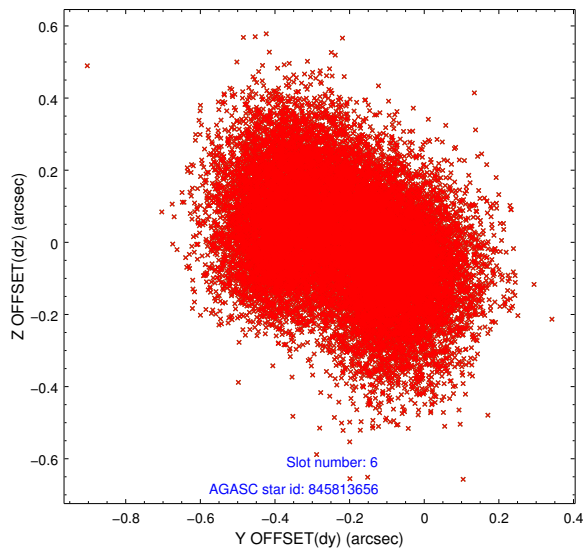
2.4.2 Slot 4



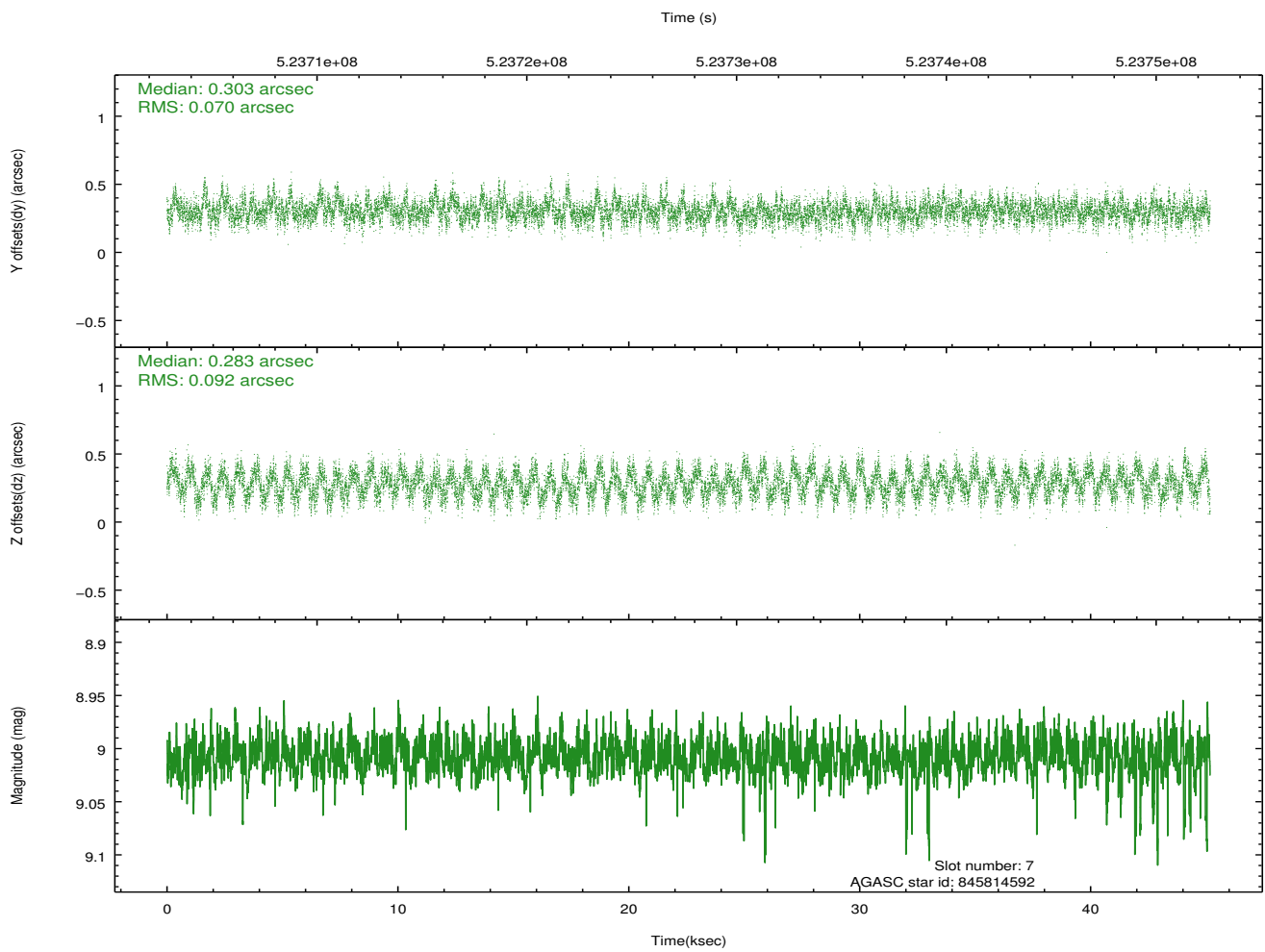
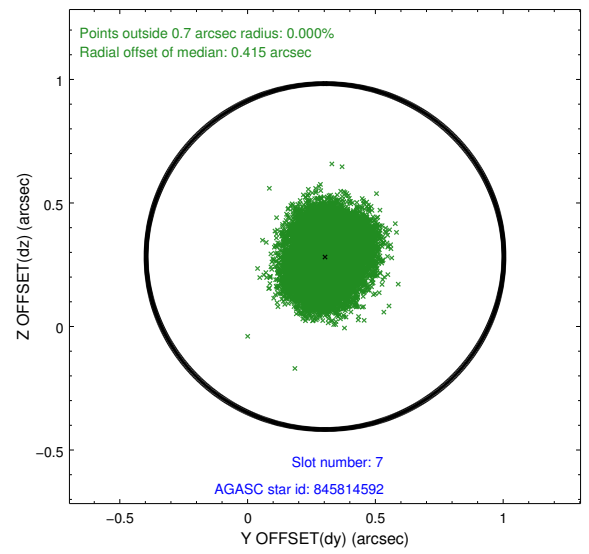
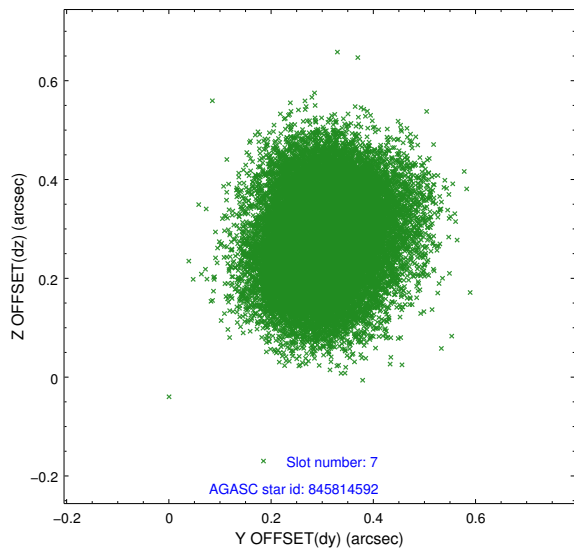
2.4.3 Slot 5



2.4.4 Slot 6

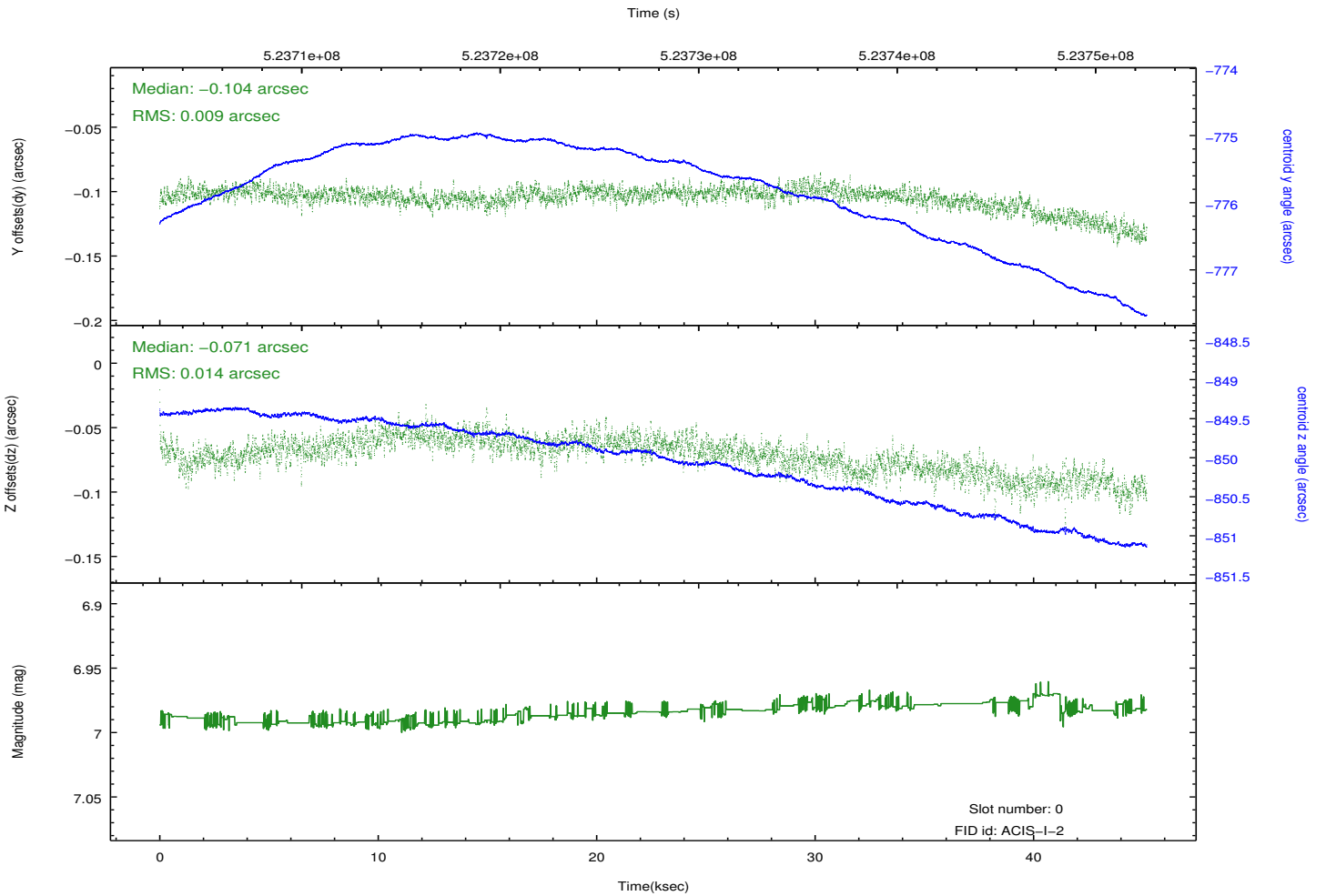
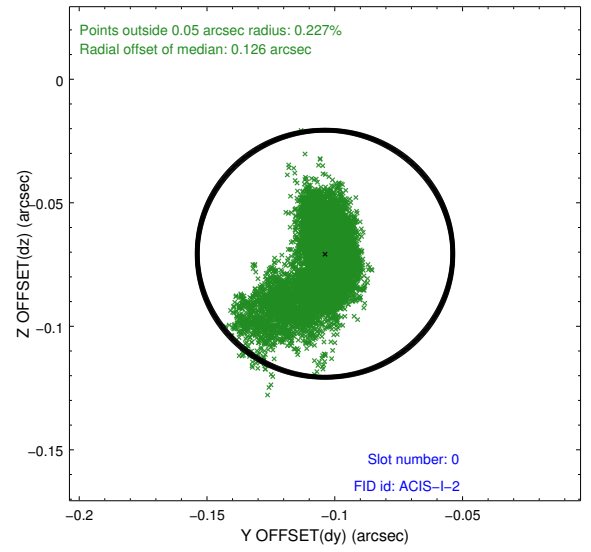
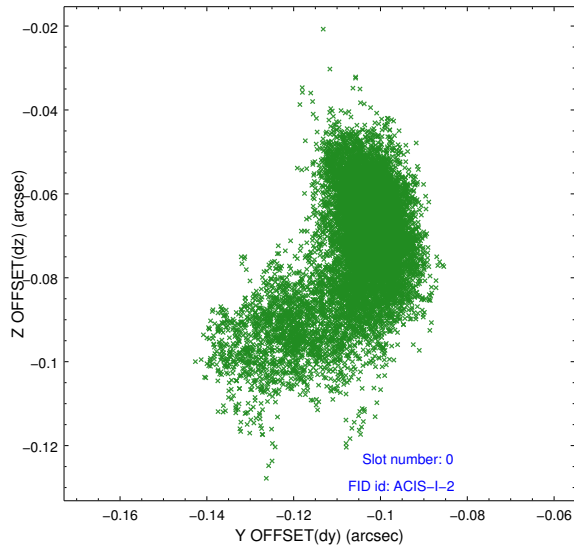


2.4.5 Slot 7

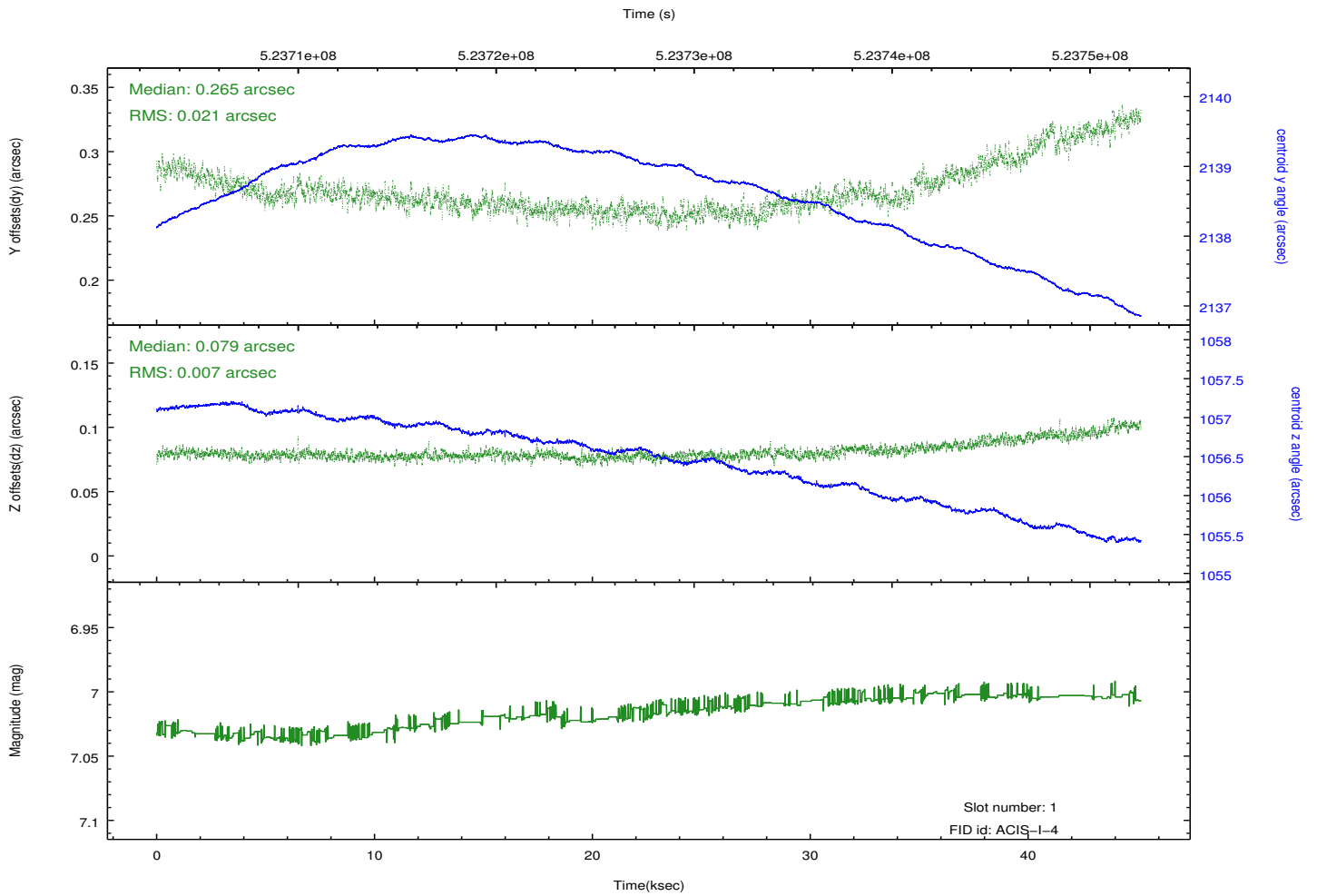
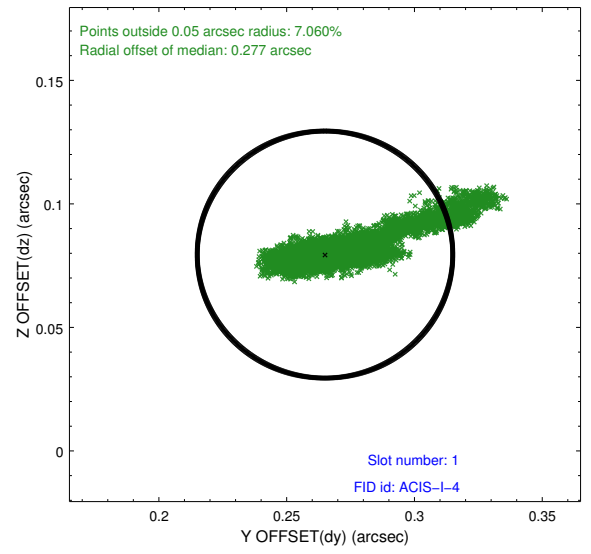
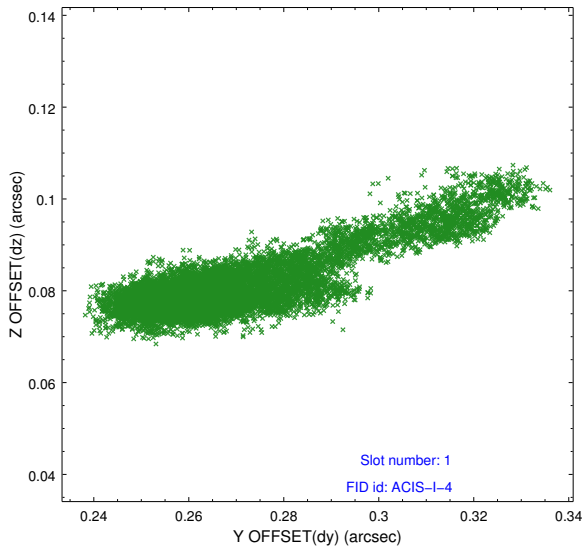


2.5 FID Slots

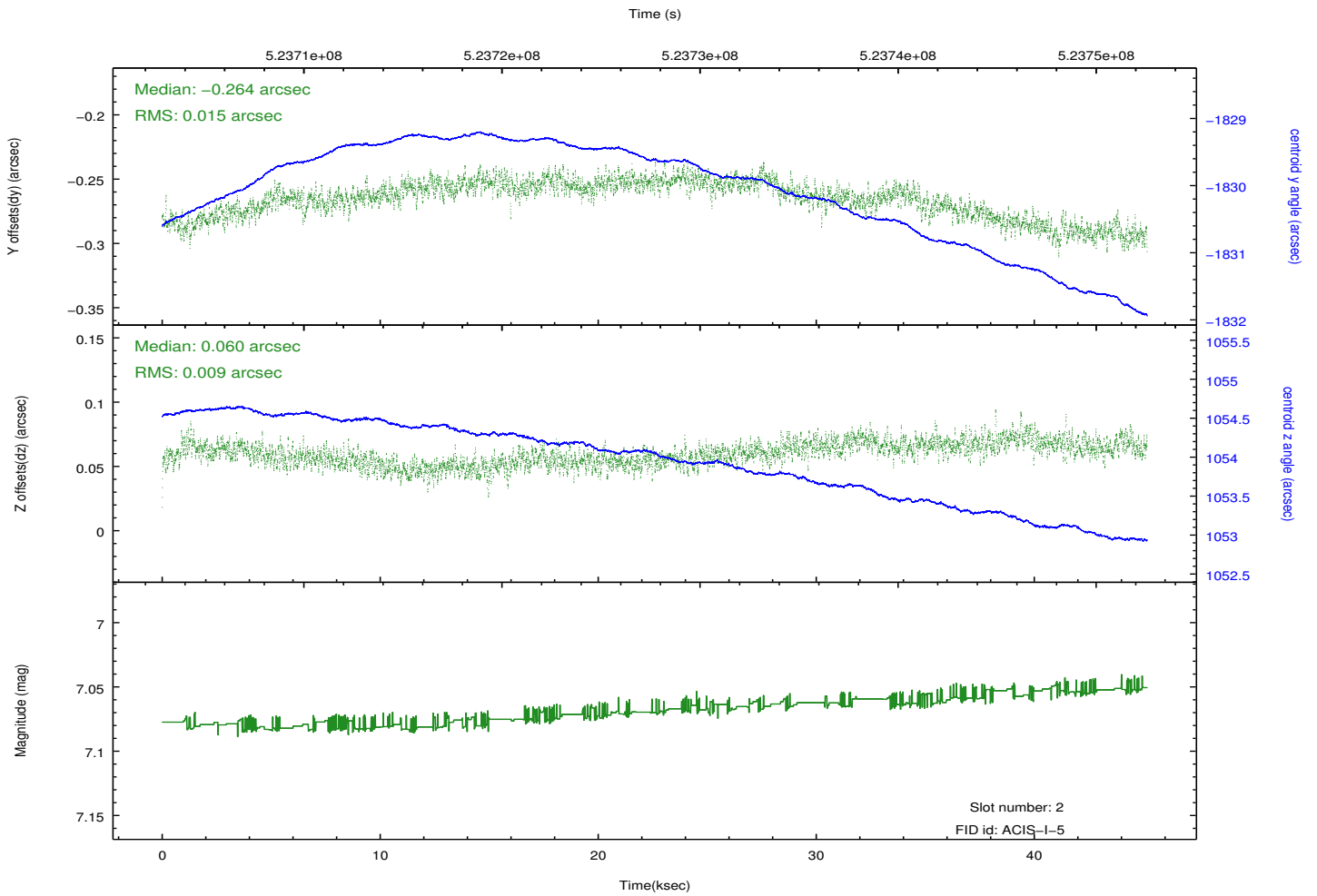
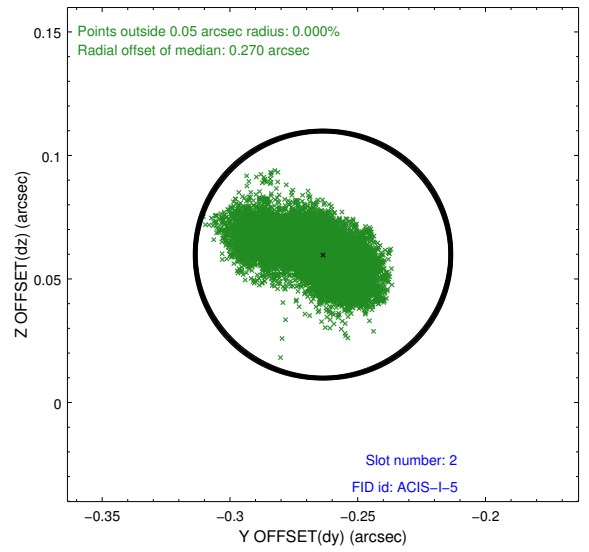
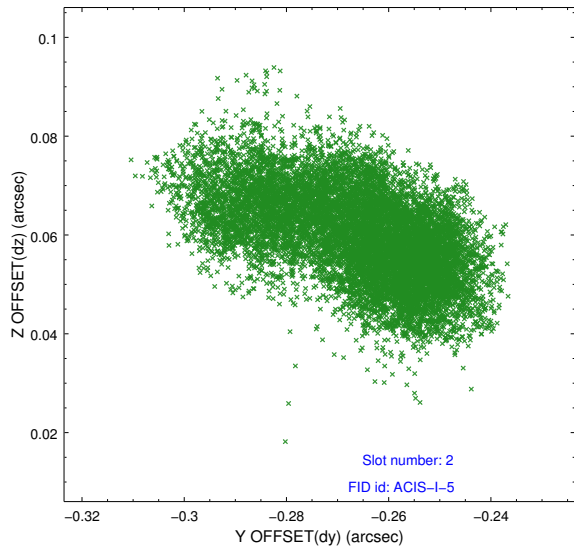
2.5.1 Slot 0



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)	2014.08.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	44.590400342941

A.2 Comments

Guide star in slot 6 was tracked 94% of the time, which is acceptable for aspect solution.