

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15345 - L2 Version 2
Chandra X-Ray Center

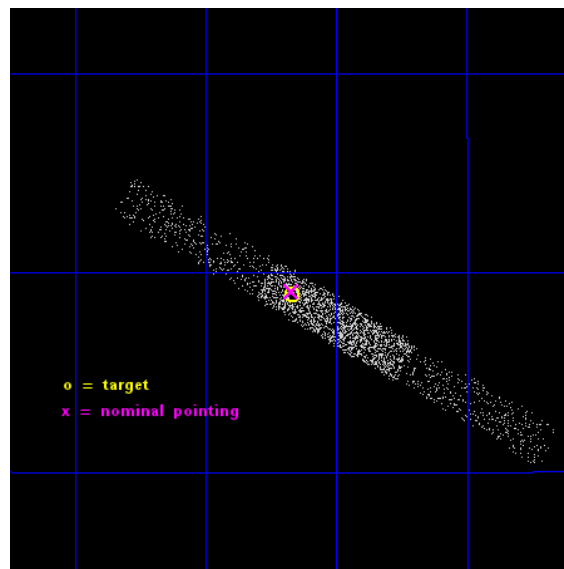
L2 Processing Date : Nov 29 2014

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1 Front

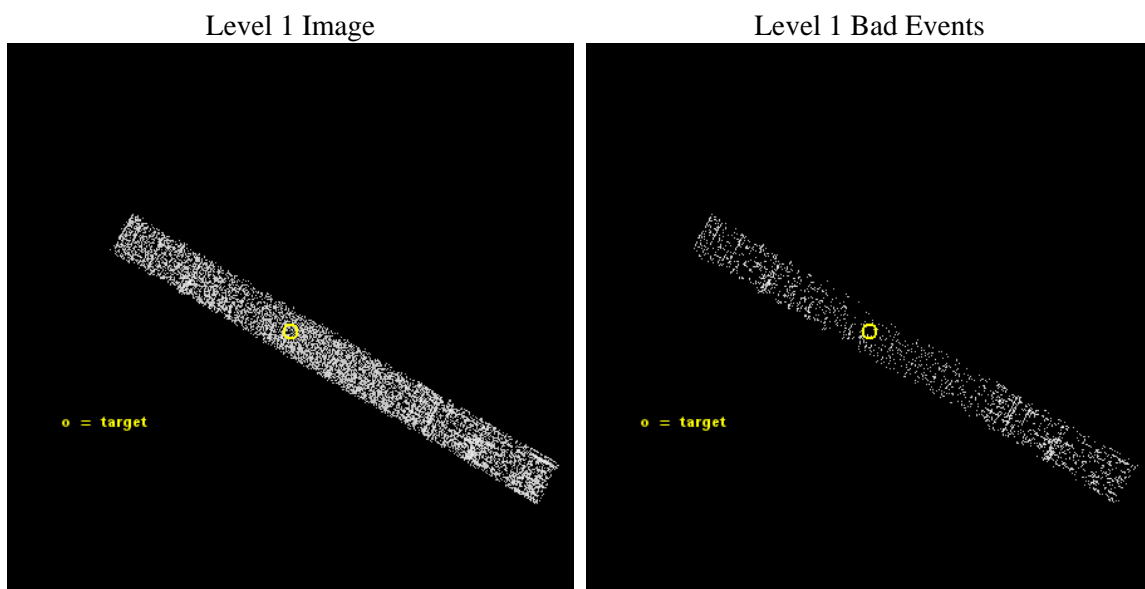
seq_num	702905	Sequence number
obs_id	15345	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1407+2418	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	211.792917	Observer's specified target RA [deg]
dec_targ	24.314889	Observer's specified target Dec [deg]
ra_nom	211.79307091199	Nominal RA [deg]
dec_nom	24.317792733412	Nominal Dec [deg]
roll_nom	29.60036993912	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2593.7999312878	Sum of GTIs [s]
livetime	2480.680883022	Livetime [s]
ontime6	2593.7999312878	Sum of GTIs [s]
ontime7	2593.7999312878	Sum of GTIs [s]
ontime8	2593.7999312878	Sum of GTIs [s]
l2events	2698	Number of level 2 events



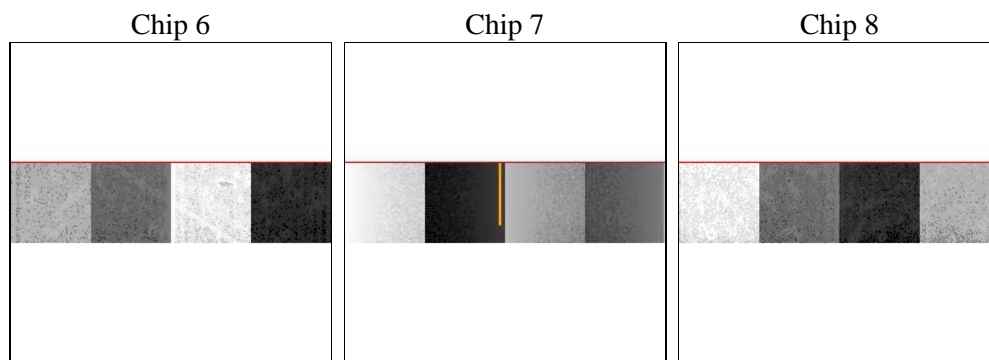
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2593.7999312878	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	2593.7999312878	Sum of GTIs [s]
date	2014-11-29T15:02:01	Date and time of file creation	ontime7	2593.7999312878	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	2593.7999312878	Sum of GTIs [s]
			l1events	12071	Number of level 1 events

2.1.4 Events

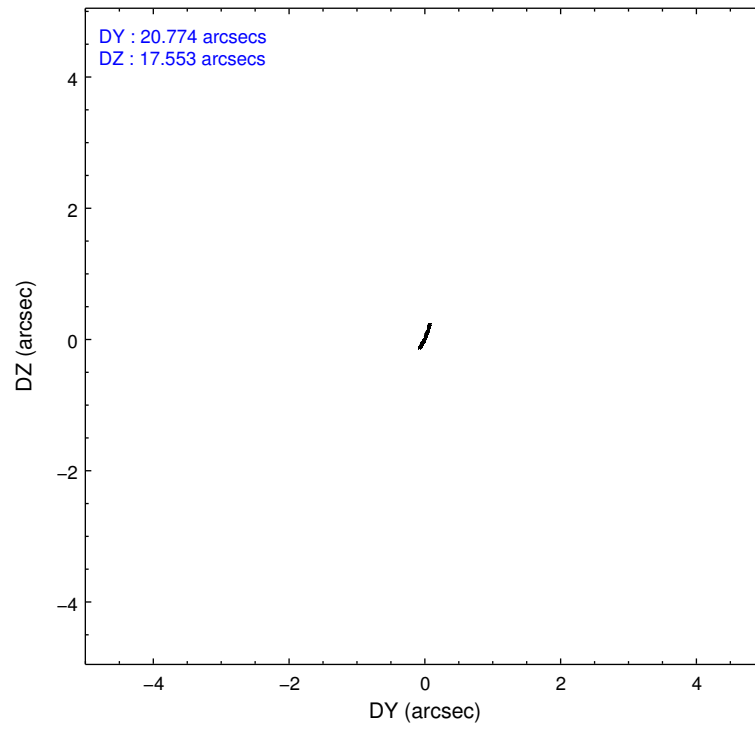
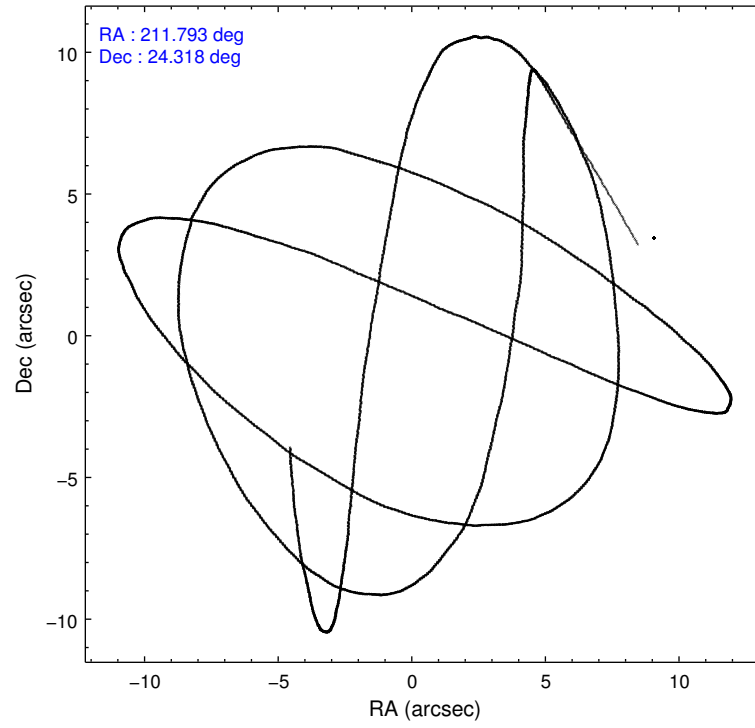
	ccd 6	ccd 7	ccd 8
level 1 events	3389	4072	4610
rejected events	2933	2059	3581
rejected %	86%	50%	77%

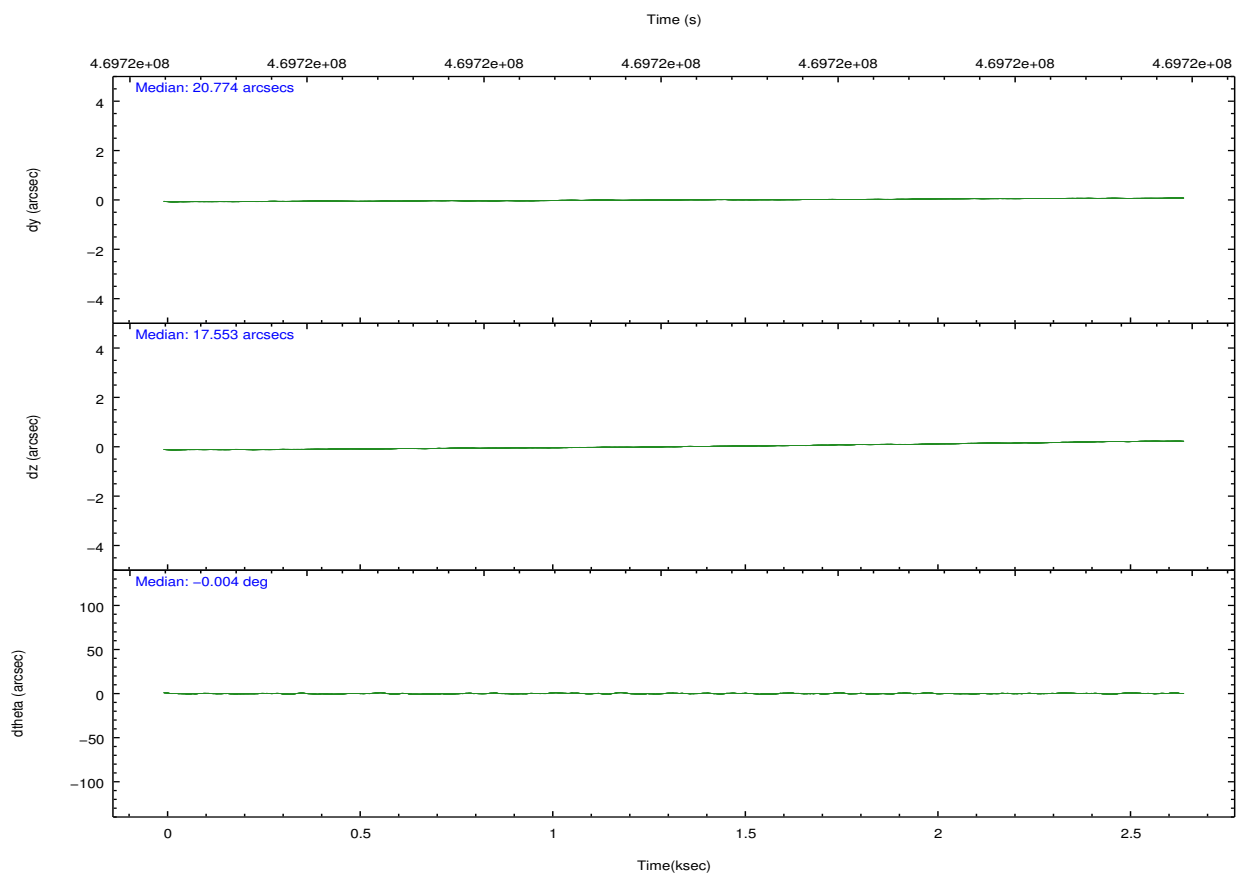
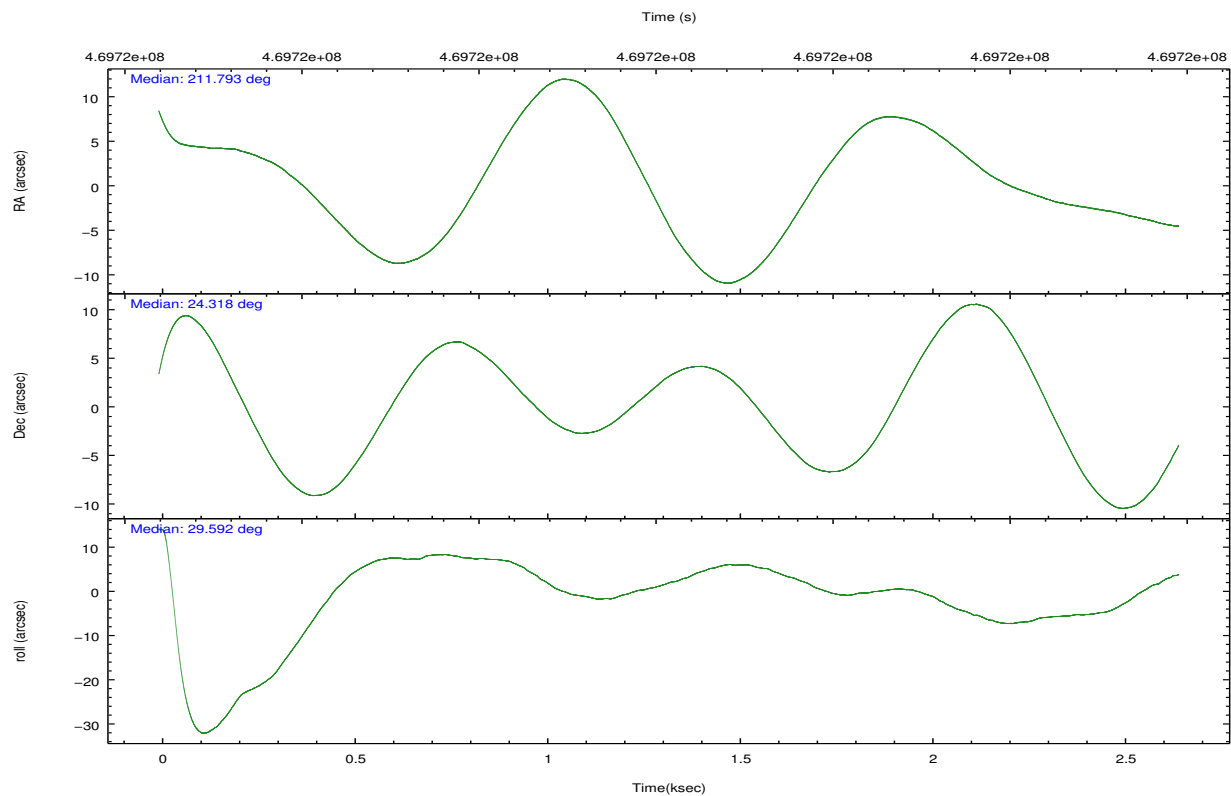
	ccd 6	ccd 7	ccd 8
grade 0 events	144	211	280
	4%	5%	6%
grade 1 events	2	4	1
	0%	0%	0%
grade 2 events	84	464	245
	2%	11%	5%
grade 3 events	74	242	108
	2%	5%	2%
grade 4 events	63	227	117
	1%	5%	2%
grade 5 events	137	423	214
	4%	10%	4%
grade 6 events	91	869	280
	2%	21%	6%
grade 7 events	2794	1632	3365
	82%	40%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	211.778267	211.7930709119935	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	24.294140	24.31779273341231	Subarray start row	385	385
[deg] Pointing Roll	29.449648	29.60036993912032	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	0.9
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	469716363.184000	469715303.86869			
Observation start date	2012-11-19T12:44:56	2012-11-19T12:28:23			
[s] Observation end time (MET)	469718863.184000	469720396.06896			
Observation end date	2012-11-19T13:26:36	2012-11-19T13:53:16			
Read mode	TIMED	TIMED			

2.3 Aspect



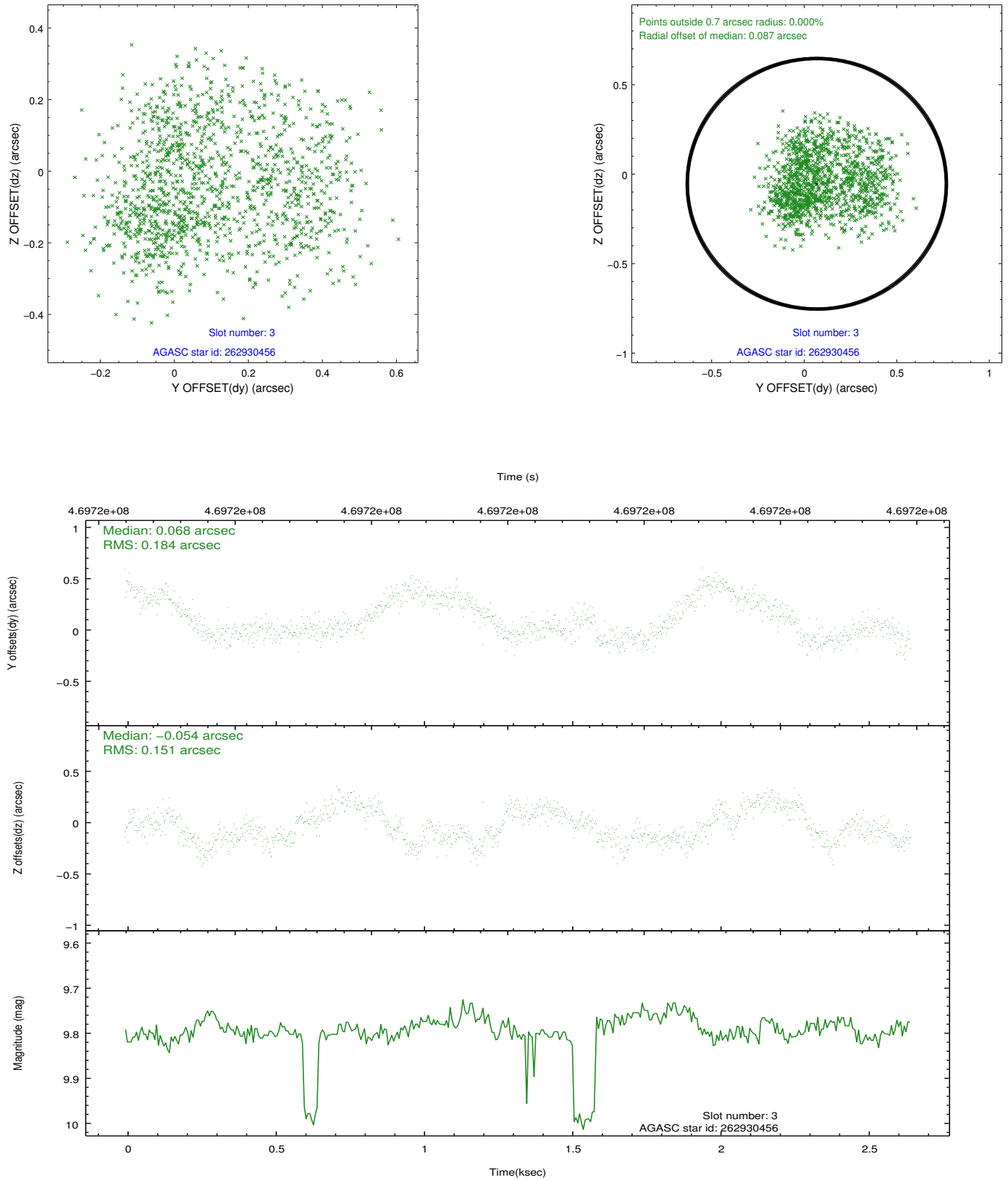


Slot Statistics

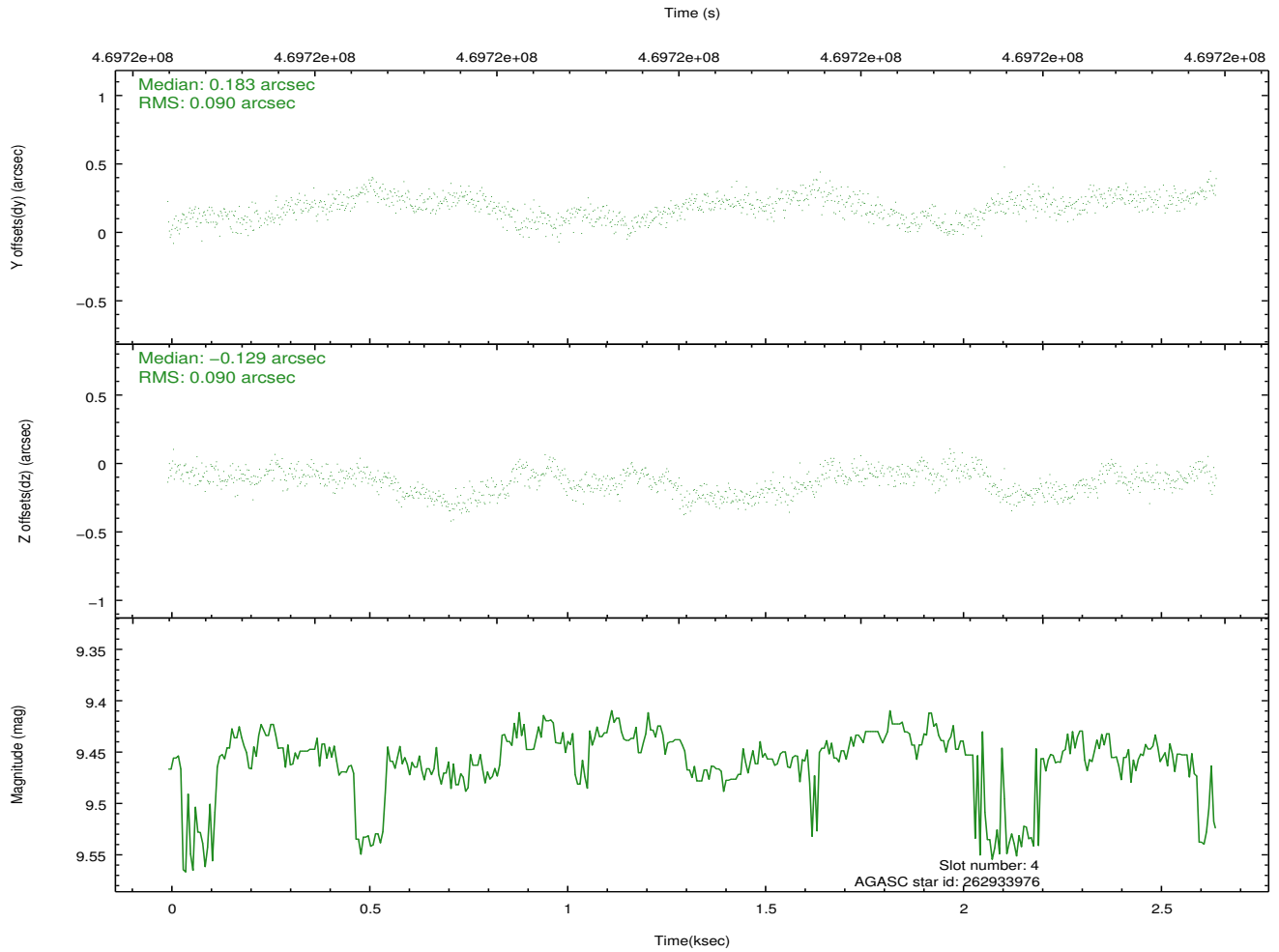
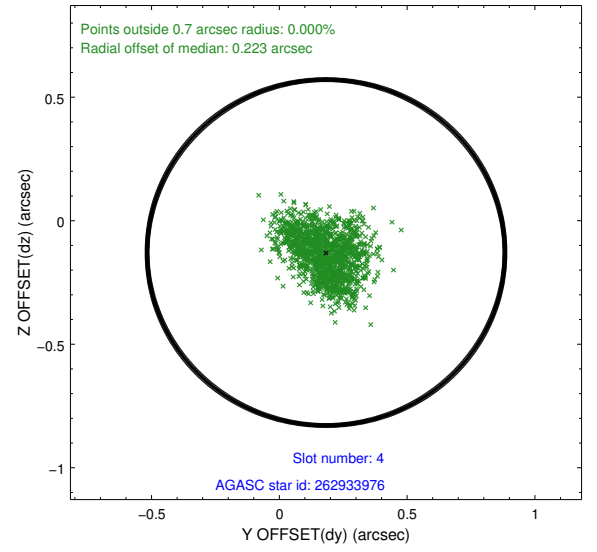
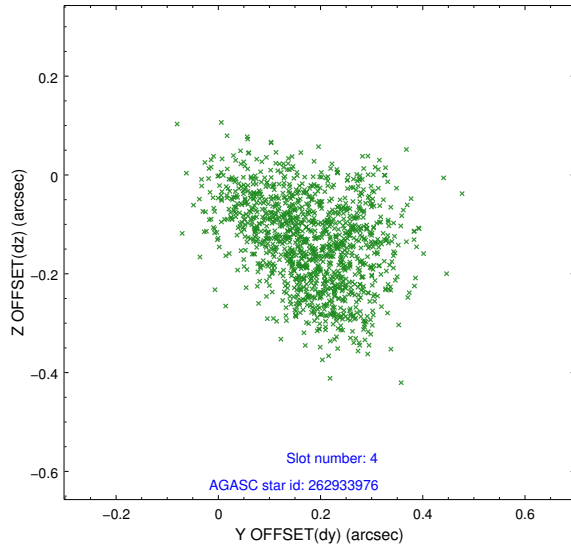
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.11	646	0.044	-0.047	0.008	0.013	0.000000	0.000000	922.14	-1734.61
1	FID		ACIS-S-4	7.12	646	0.197	0.016	0.007	0.011	0.000000	0.000000	2141.08	167.06
2	FID		ACIS-S-5	7.15	646	-0.268	0.044	0.005	0.009	0.000000	0.000000	-1823.89	163.51
3	GUIDE	used	262930456	9.79	1281	0.068	-0.054	0.261	0.391	211.159180	24.077951	-2151.86	327.29
4	GUIDE	used	262933976	9.45	1283	0.183	-0.129	0.139	0.212	211.210557	24.283592	-1640.56	887.16
5	GUIDE	used	262934928	8.71	1293	0.035	0.167	0.095	0.154	211.926351	23.737233	-561.13	-1984.07
6	GUIDE	used	262936584	9.57	1290	0.184	0.027	0.132	0.198	211.711061	23.977527	-752.28	-884.78
7	GUIDE	used	262939328	6.09	1292	-0.492	-0.013	0.096	0.169	212.066085	24.315049	859.41	-397.78

2.4 Star Slots

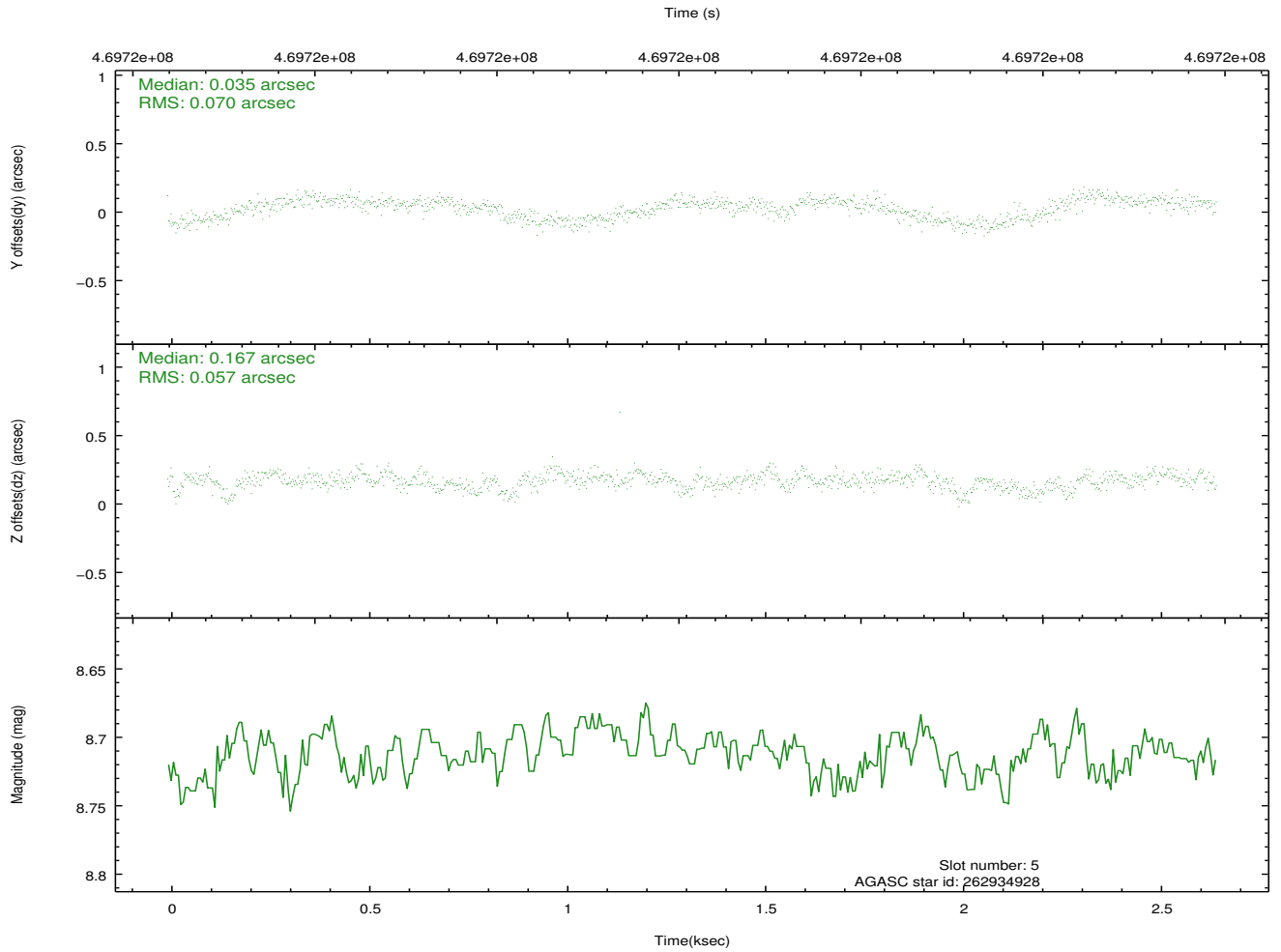
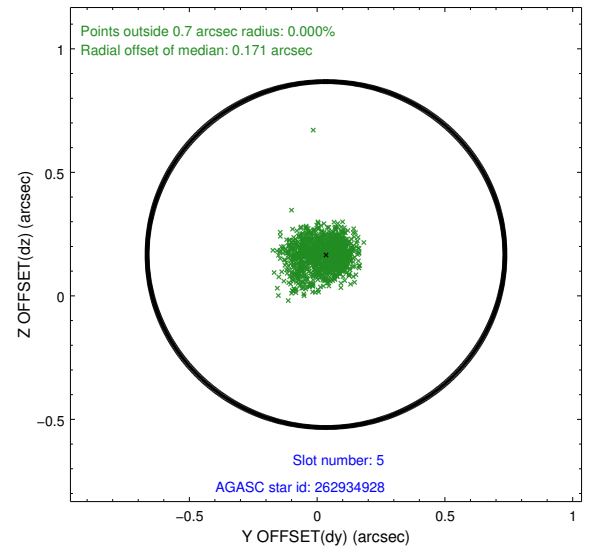
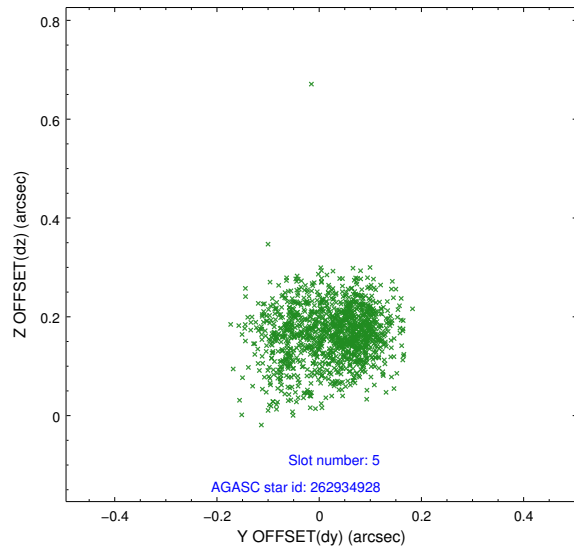
2.4.1 Slot 3



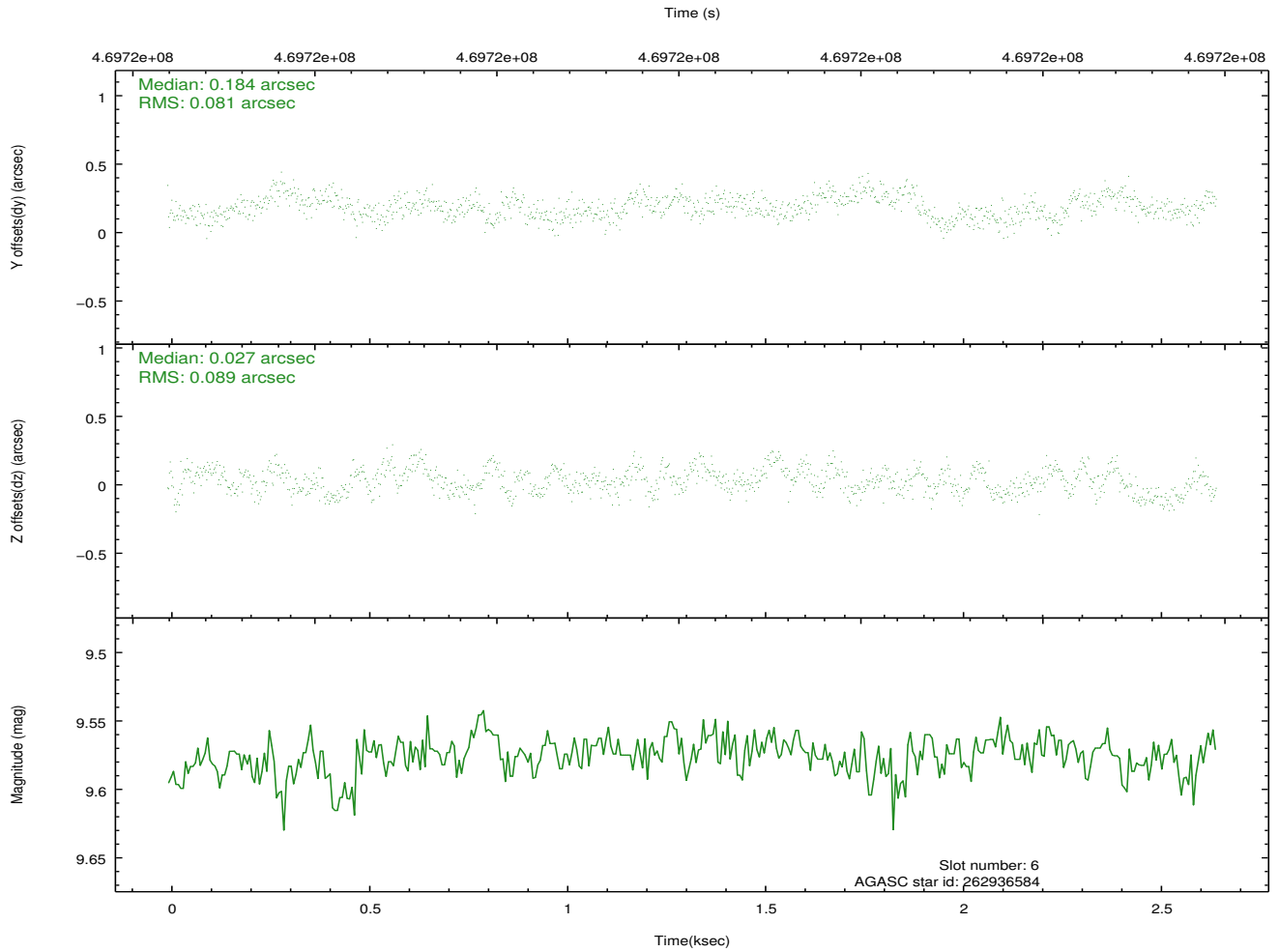
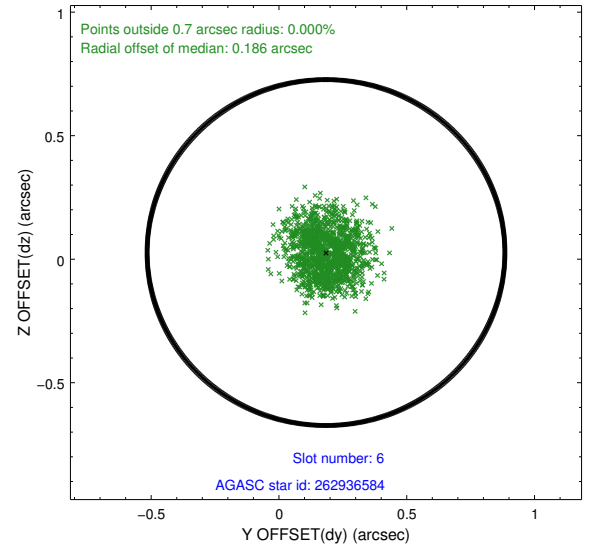
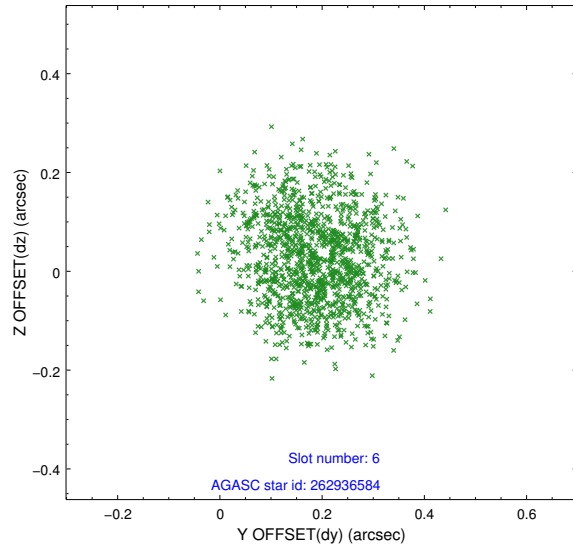
2.4.2 Slot 4



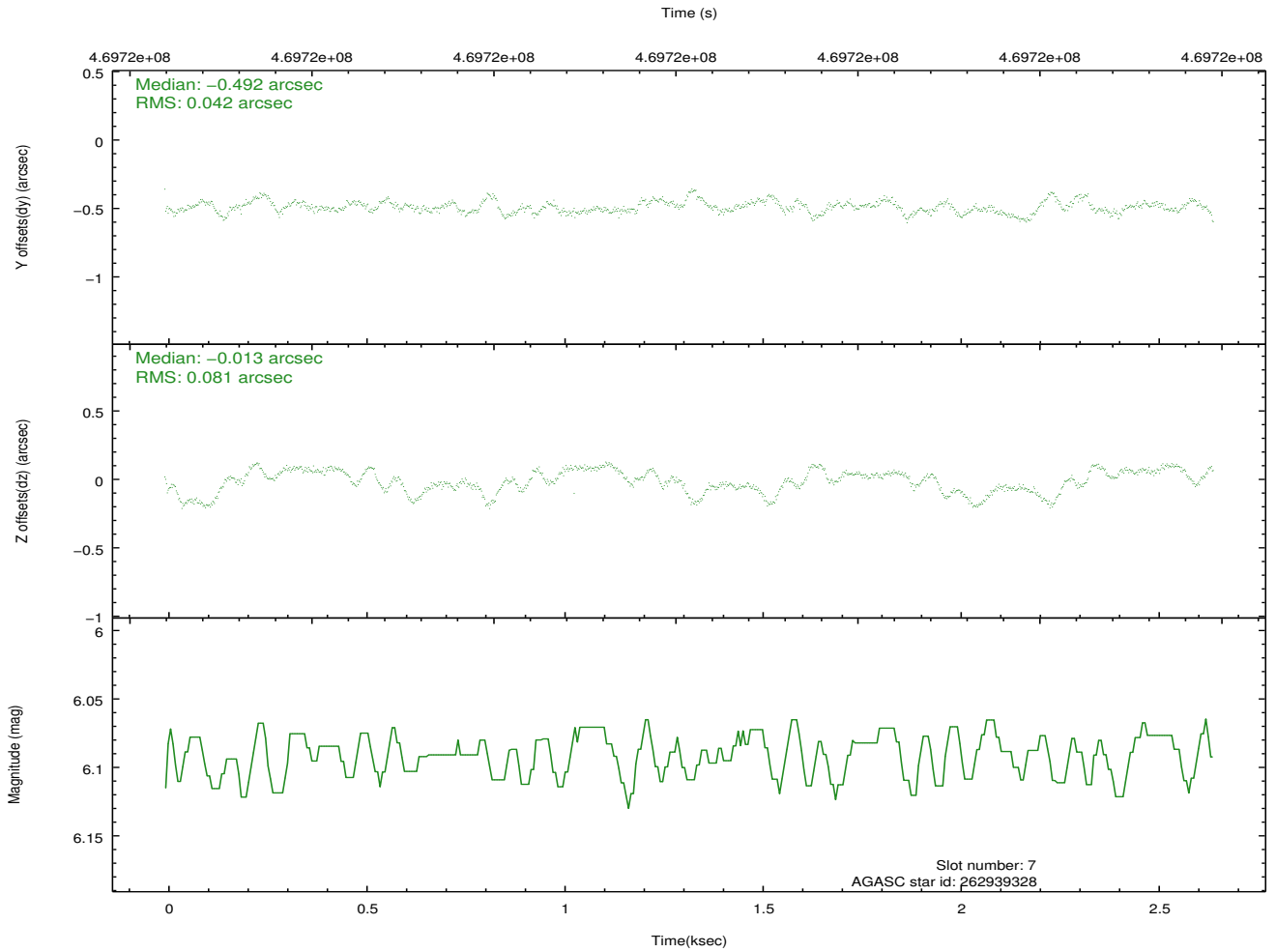
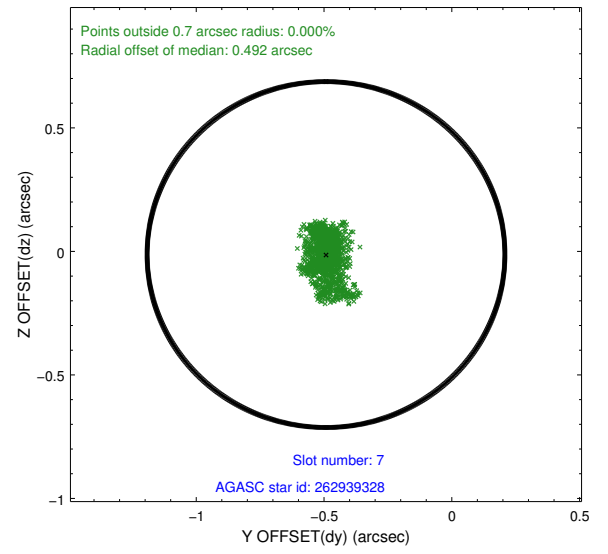
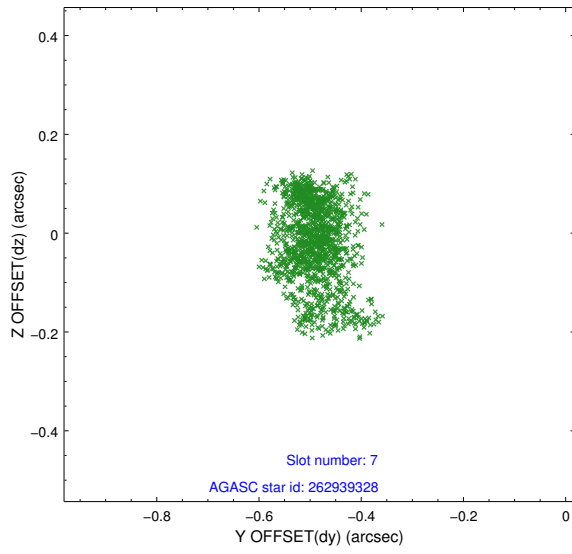
2.4.3 Slot 5



2.4.4 Slot 6

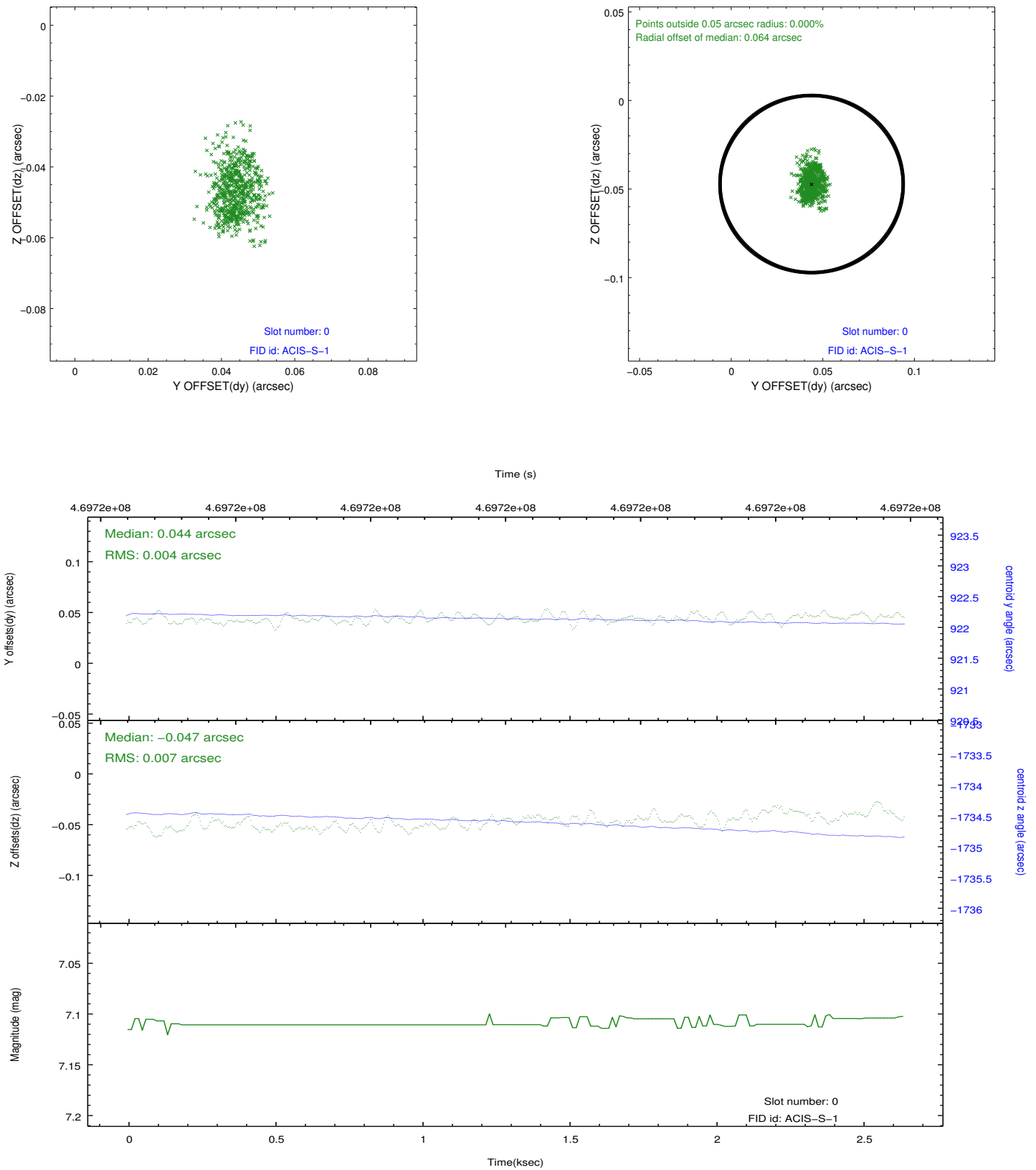


2.4.5 Slot 7

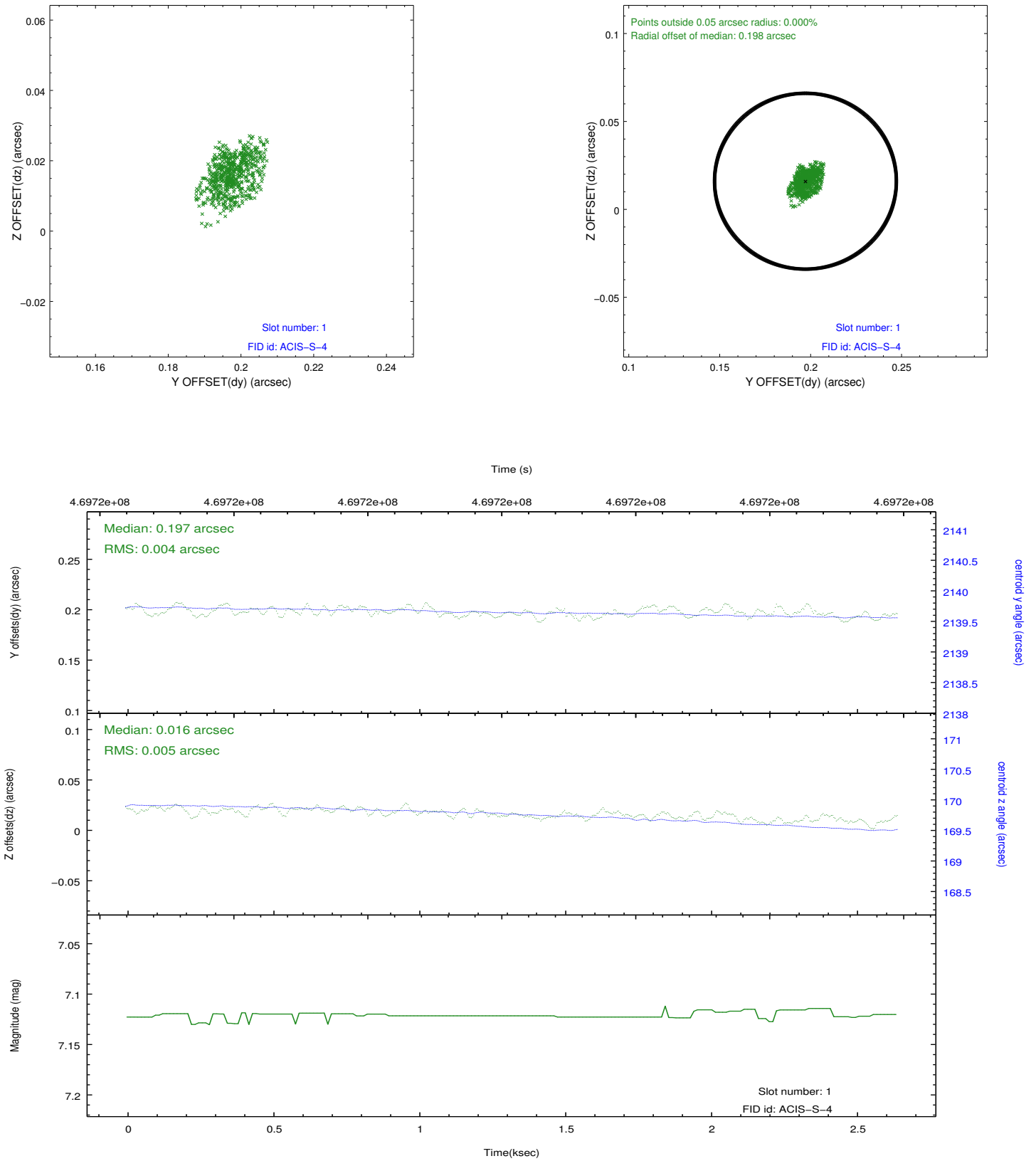


2.5 FID Slots

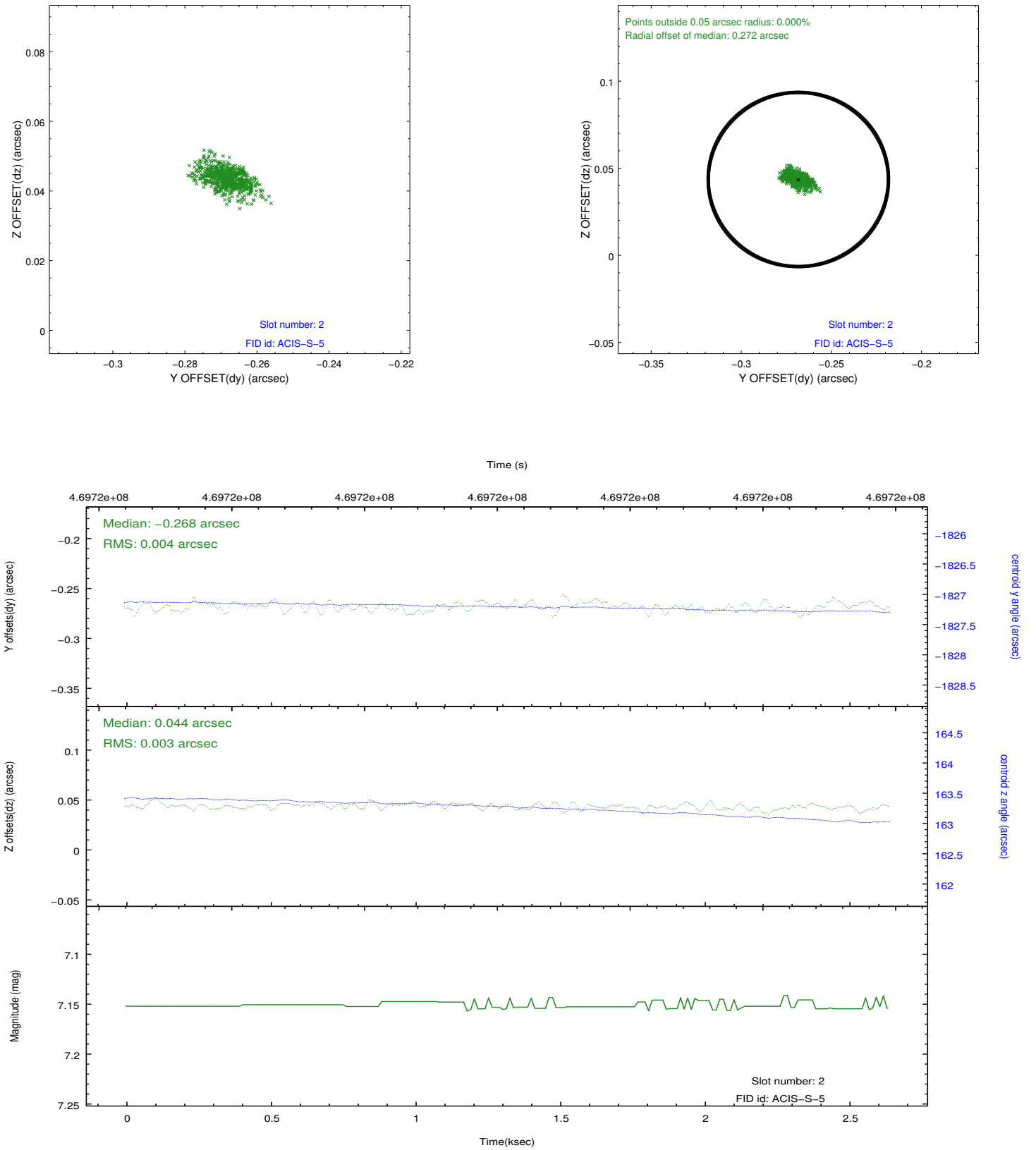
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5937999312878

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.