

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 15356 - L2 Version 2
Chandra X-Ray Center

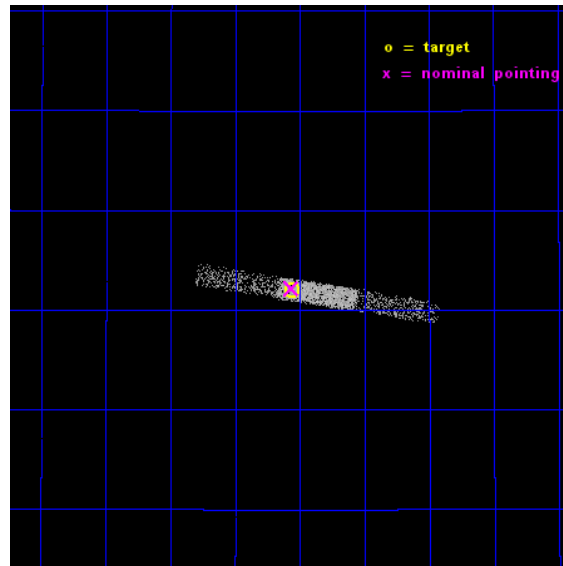
L2 Processing Date : Nov 30 2014

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1 Front

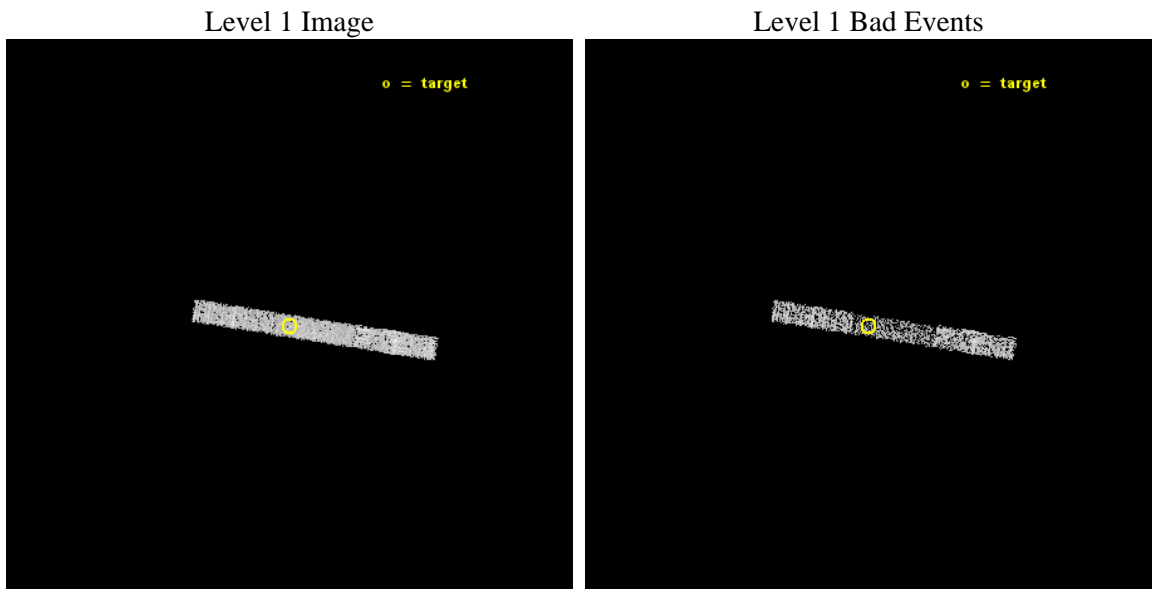
seq_num	702916	Sequence number
obs_id	15356	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1629+2532	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	247.39	Observer's specified target RA [deg]
dec_targ	25.5335	Observer's specified target Dec [deg]
ra_nom	247.39139277827	Nominal RA [deg]
dec_nom	25.536376803306	Nominal Dec [deg]
roll_nom	8.7731471469309	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3093.2999180555	Sum of GTIs [s]
livetime	2958.3970142077	Livetime [s]
ontime6	3093.2999180555	Sum of GTIs [s]
ontime7	3093.2999180555	Sum of GTIs [s]
ontime8	3093.2999180555	Sum of GTIs [s]
l2events	3245	Number of level 2 events



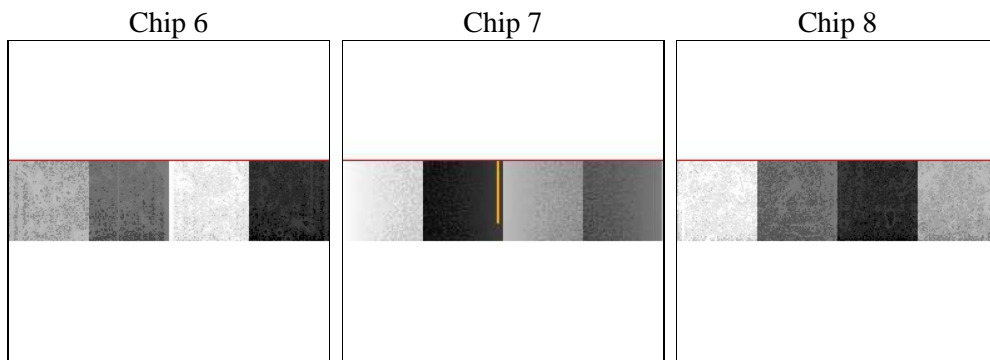
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	3093.2999180555	Sum of GTIs [s]
caldbver	4.6.4	 	ontime6	3093.2999180555	Sum of GTIs [s]
date	2014-11-30T02:37:11	Date and time of file creation	ontime7	3093.2999180555	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	3093.2999180555	Sum of GTIs [s]
			l1events	15557	Number of level 1 events

2.1.4 Events

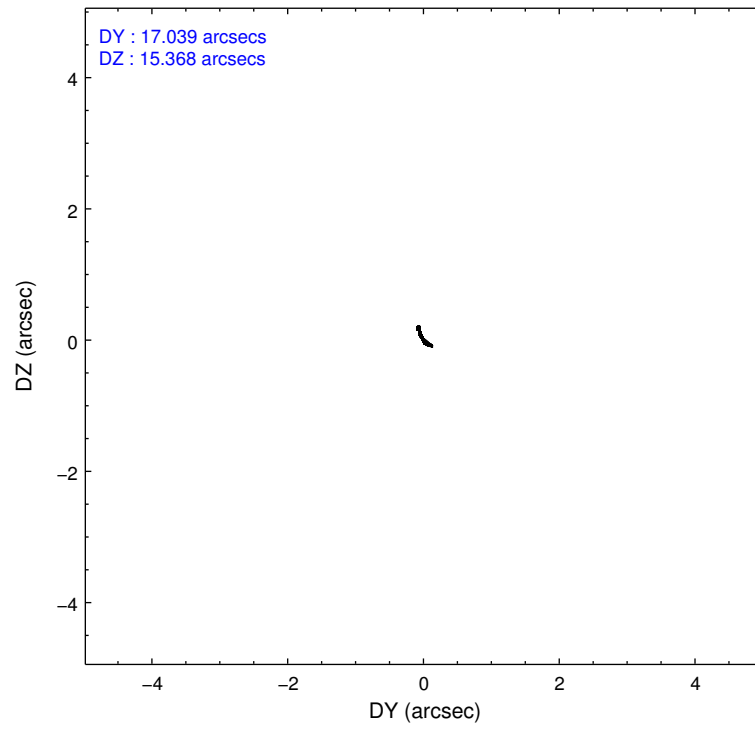
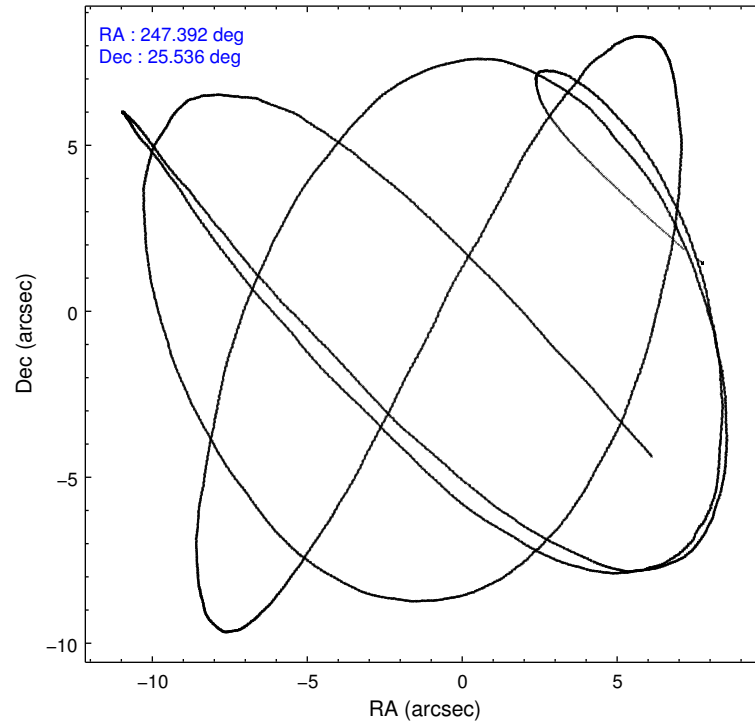
	ccd 6	ccd 7	ccd 8
level 1 events	4662	4685	6210
rejected events	4106	2280	4712
rejected %	88%	48%	75%

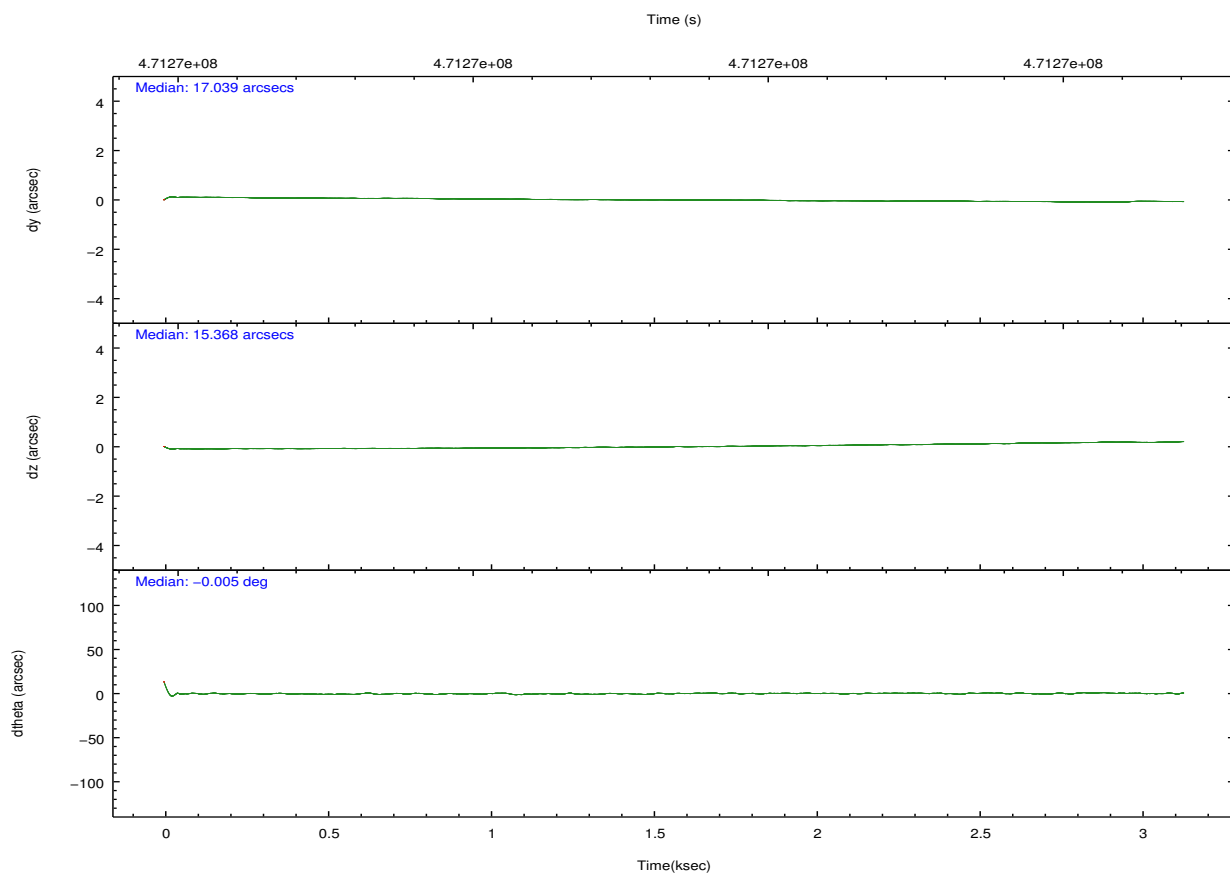
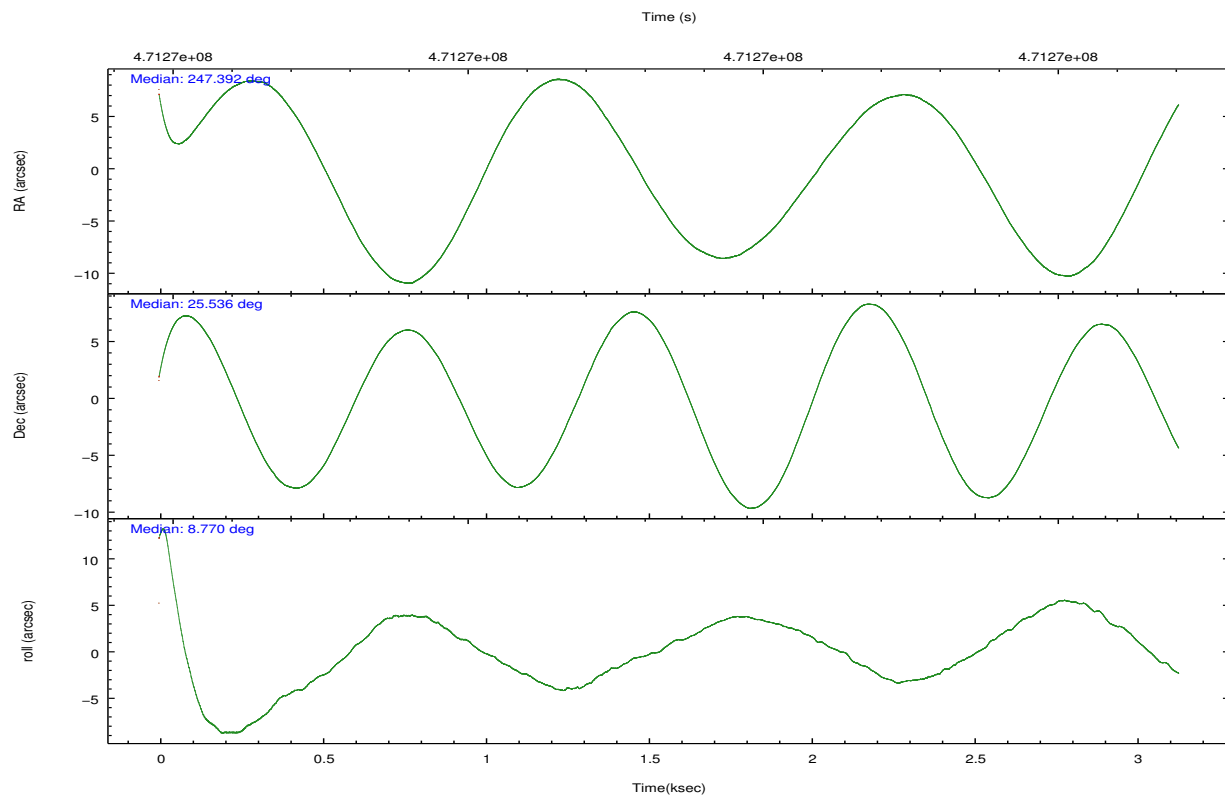
	ccd 6	ccd 7	ccd 8
grade 0 events	156	239	337
	3%	5%	5%
grade 1 events	4	8	0
	0%	0%	0%
grade 2 events	110	514	341
	2%	10%	5%
grade 3 events	81	287	180
	1%	6%	2%
grade 4 events	103	263	158
	2%	5%	2%
grade 5 events	152	525	249
	3%	11%	4%
grade 6 events	106	1103	482
	2%	23%	7%
grade 7 events	3950	1746	4463
	84%	37%	71%

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	247.367992	247.3913927782693	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	25.518862	25.53637680330611	Subarray start row	385	385
[deg] Pointing Roll	8.626554	8.773147146930862	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	471270238.184000	471268970.25226			
Observation start date	2012-12-07T12:22:51	2012-12-07T12:02:50			
[s] Observation end time (MET)	471273238.184000	471274240.29004			
Observation end date	2012-12-07T13:12:51	2012-12-07T13:30:40			
Read mode	TIMED	TIMED			

2.3 Aspect



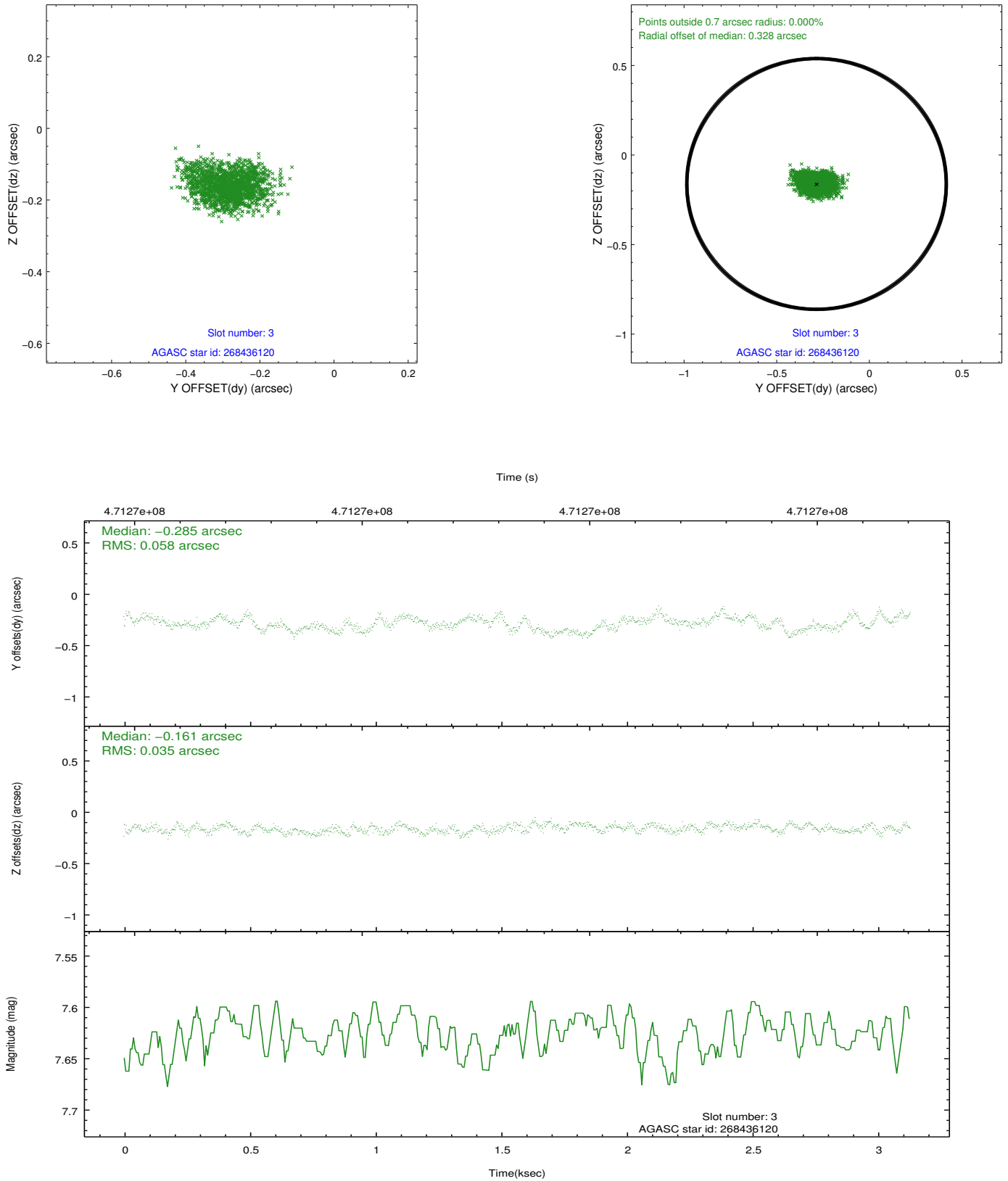


Slot Statistics

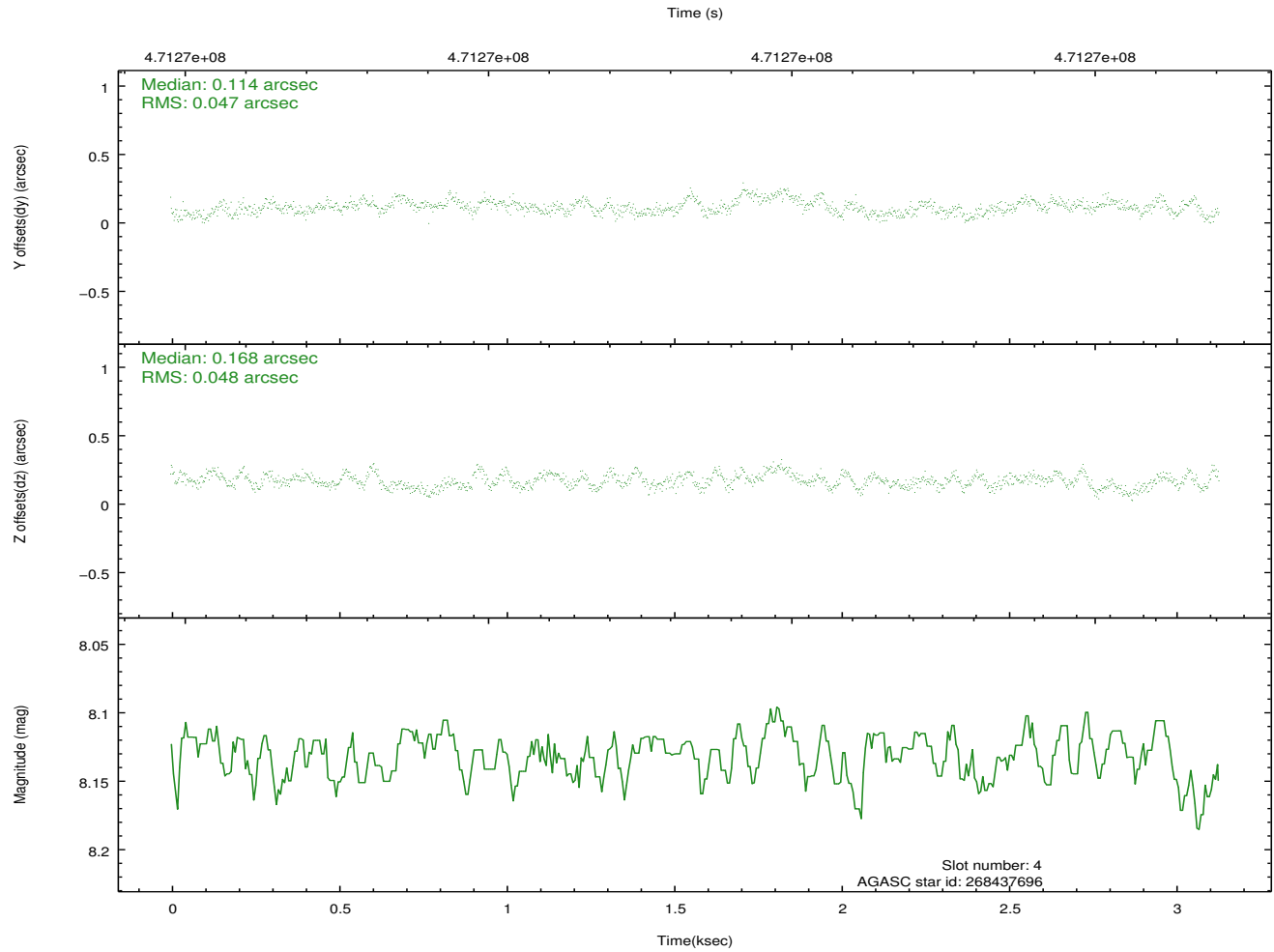
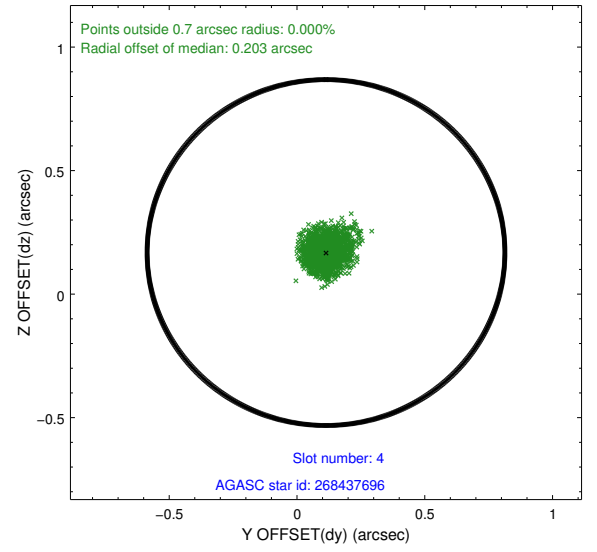
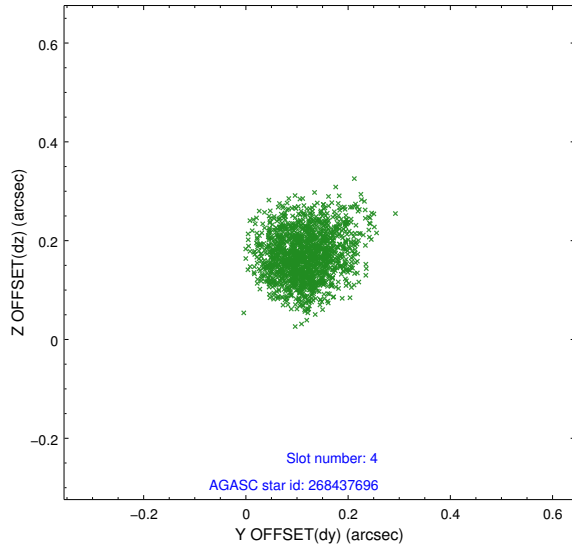
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.07	764	-0.118	-0.008	0.008	0.015	0.000000	0.000000	-770.16	-1736.74
1	FID		ACIS-S-4	7.16	764	0.243	0.059	0.007	0.013	0.000000	0.000000	2142.52	169.73
2	FID		ACIS-S-5	7.19	764	-0.157	-0.042	0.009	0.016	0.000000	0.000000	-1820.46	165.57
3	GUIDE	used	268436120	7.63	1528	-0.285	-0.161	0.073	0.116	247.976339	26.031901	2222.88	1534.26
4	GUIDE	used	268437696	8.13	1528	0.114	0.168	0.072	0.113	246.988359	25.193680	-1396.20	-970.10
5	GUIDE	used	268438952	7.83	1528	-0.161	-0.198	0.066	0.105	247.853836	25.841532	1730.26	913.68
6	GUIDE	used	268444776	8.78	1526	0.181	0.334	0.085	0.146	247.214335	24.864988	-847.88	-2251.35
7	GUIDE	used	268443752	9.08	1524	0.150	-0.147	0.106	0.171	247.082481	25.515400	-919.21	125.66

2.4 Star Slots

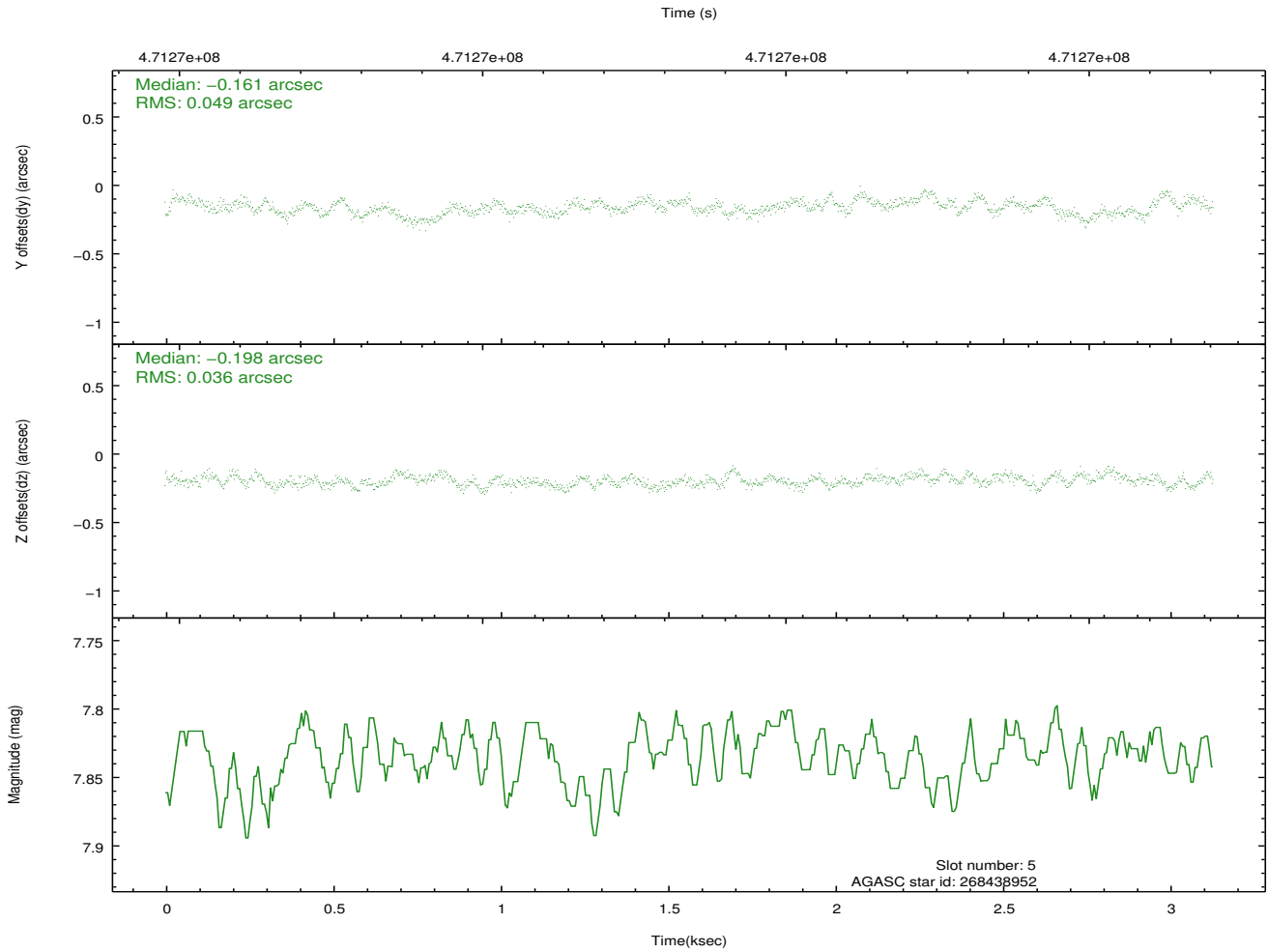
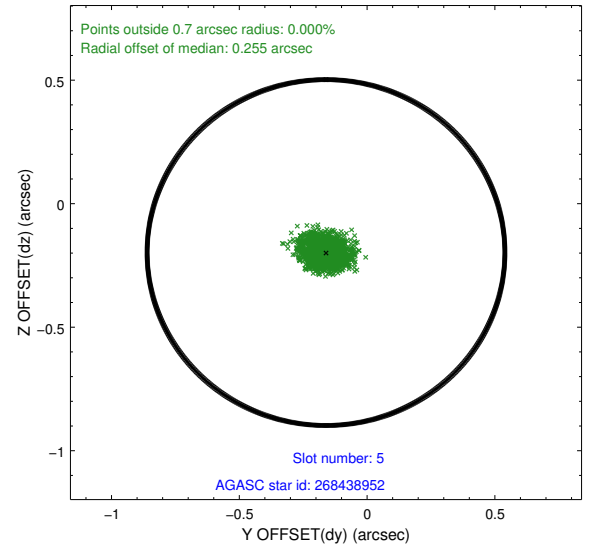
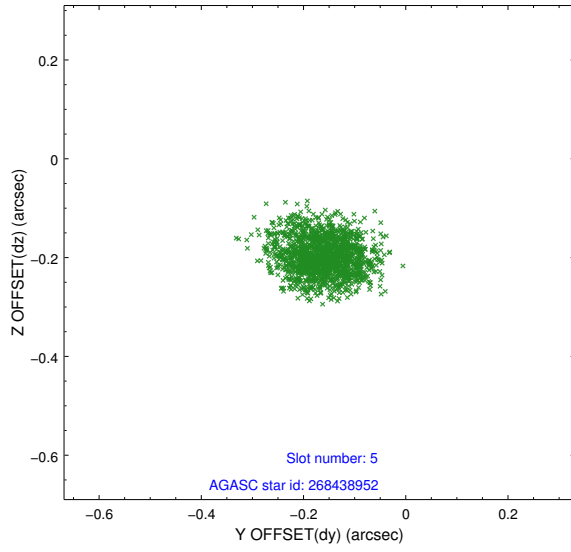
2.4.1 Slot 3



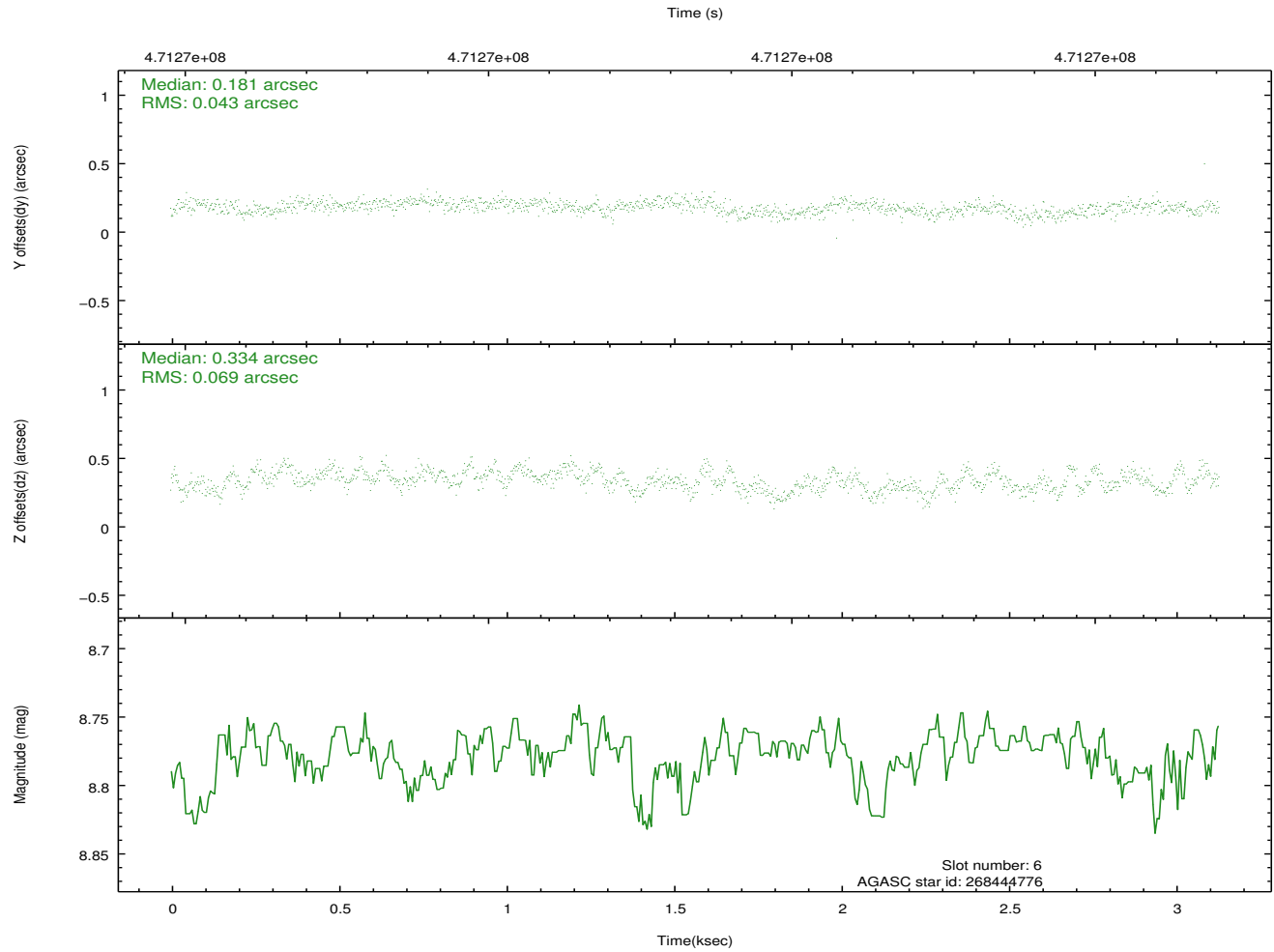
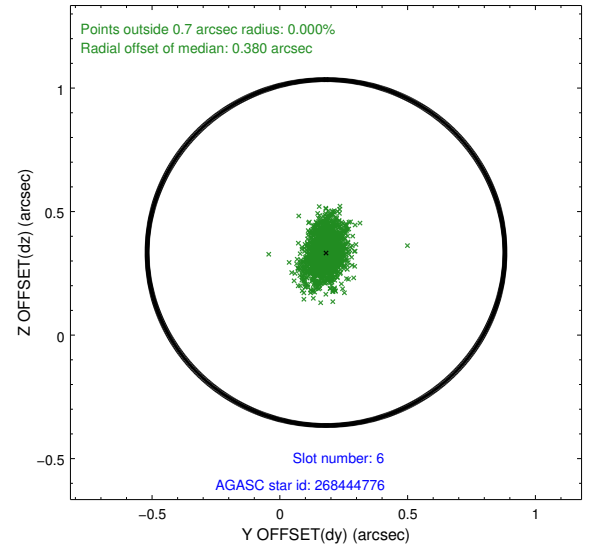
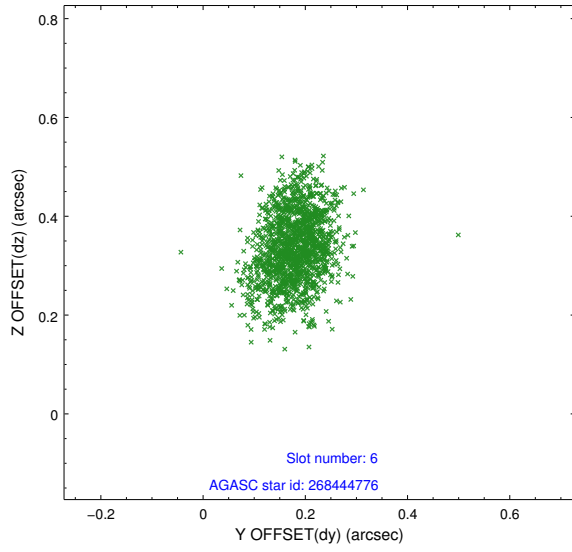
2.4.2 Slot 4



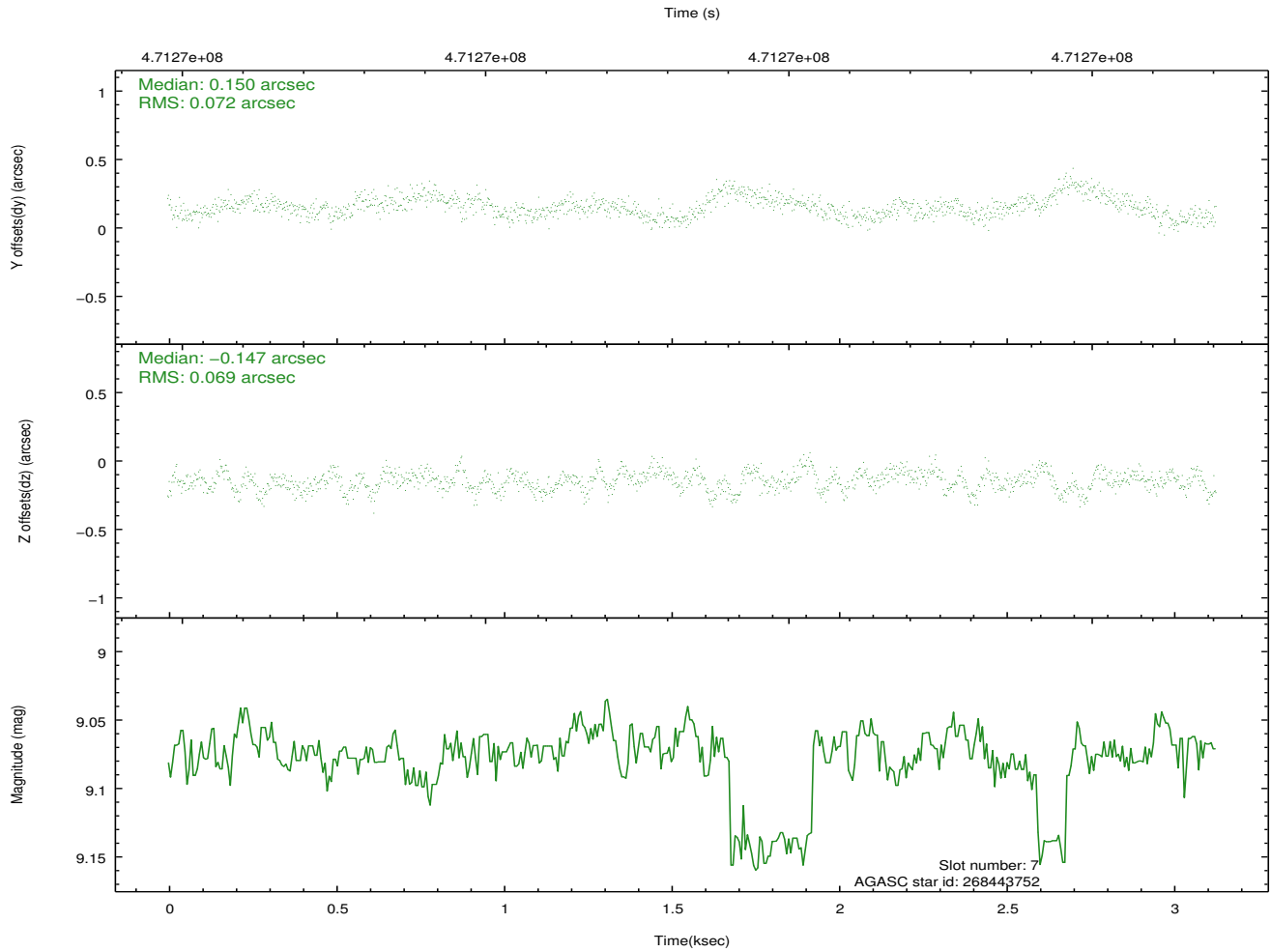
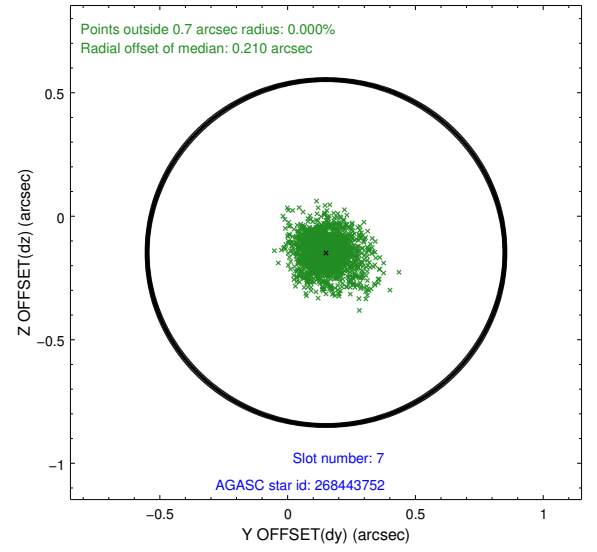
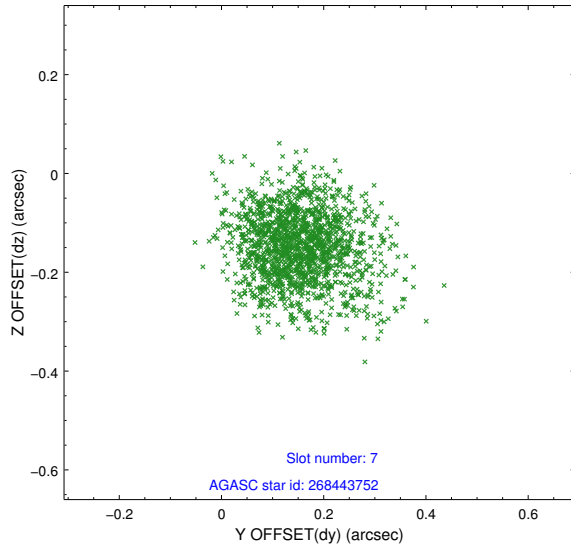
2.4.3 Slot 5



2.4.4 Slot 6

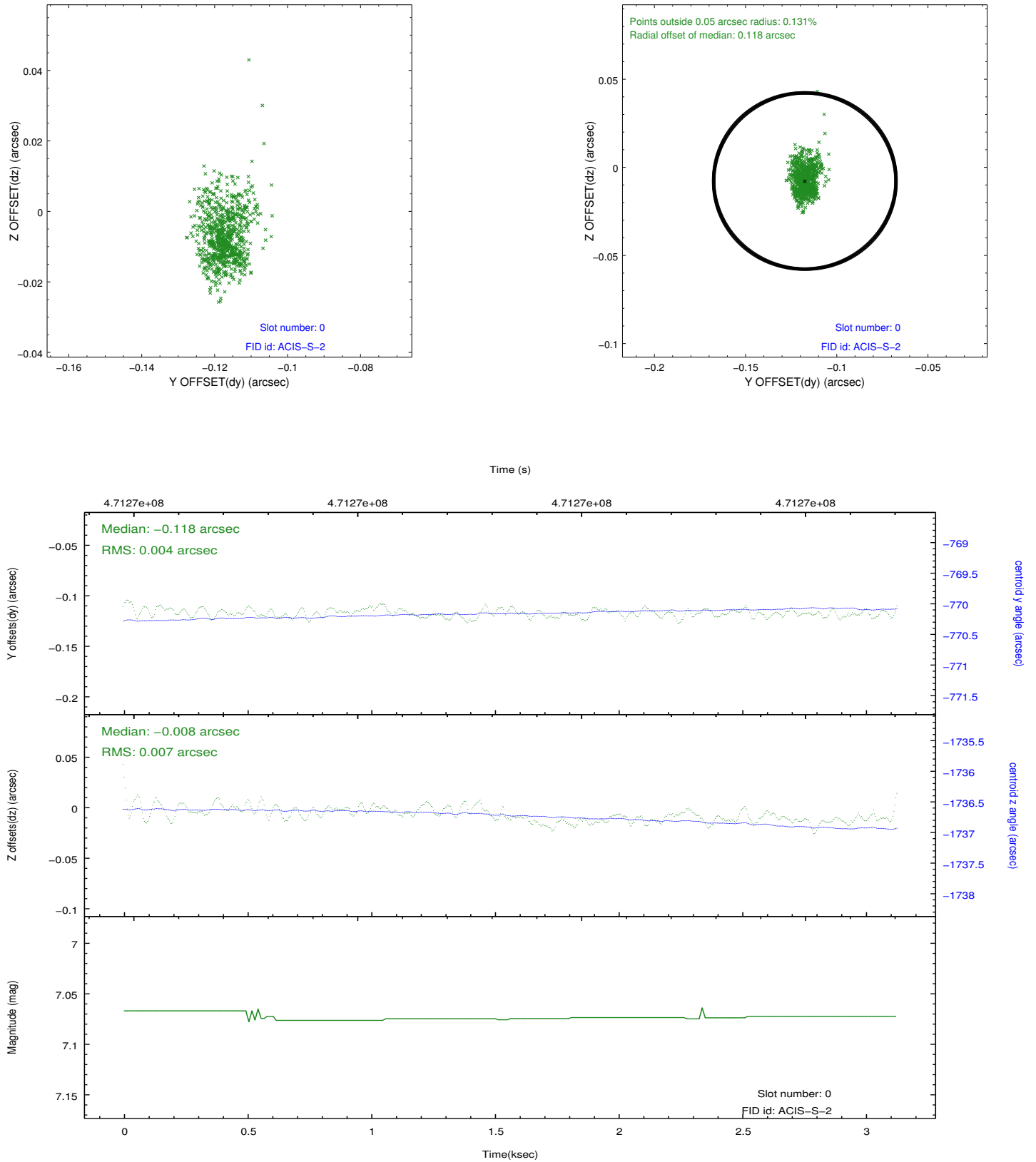


2.4.5 Slot 7

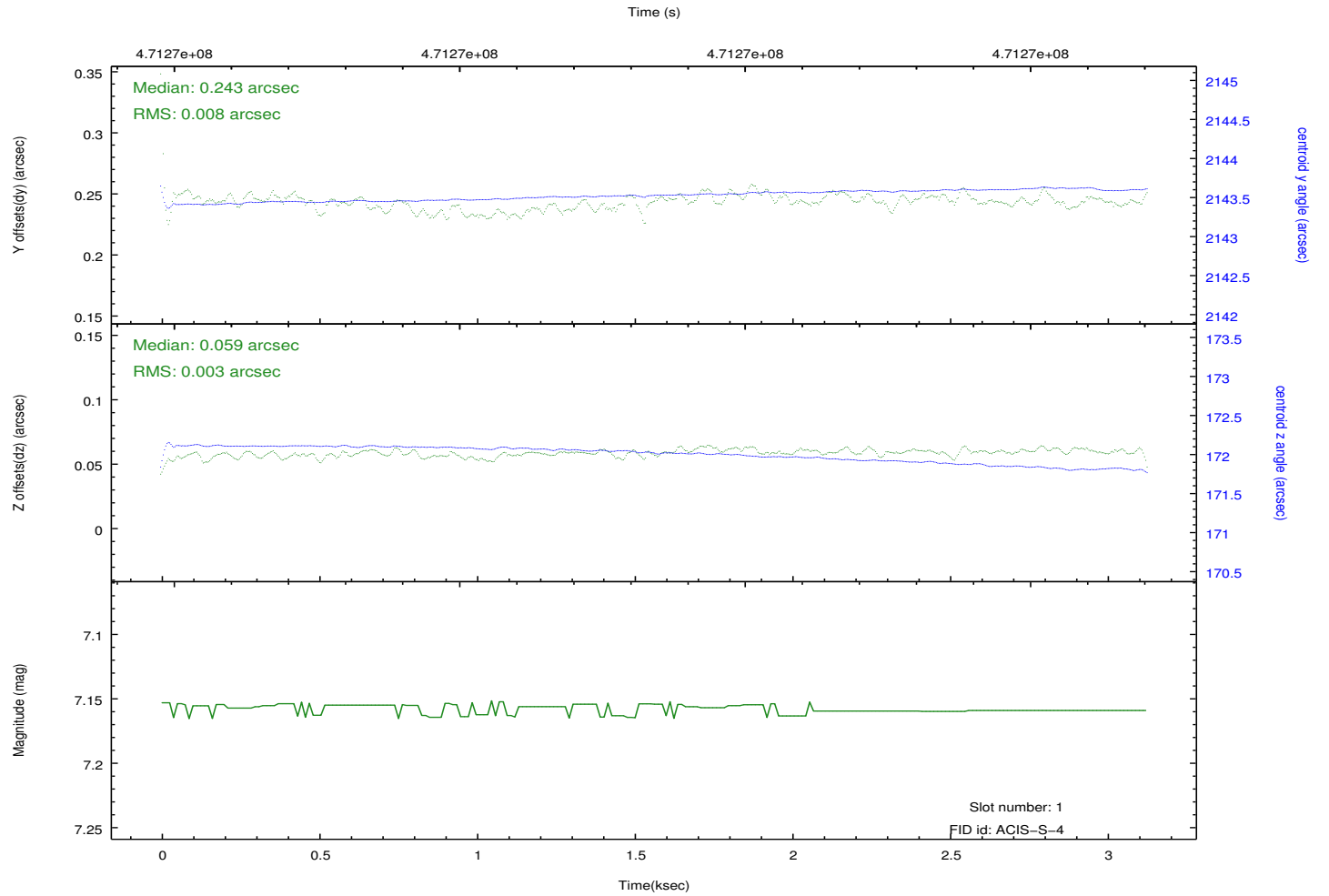
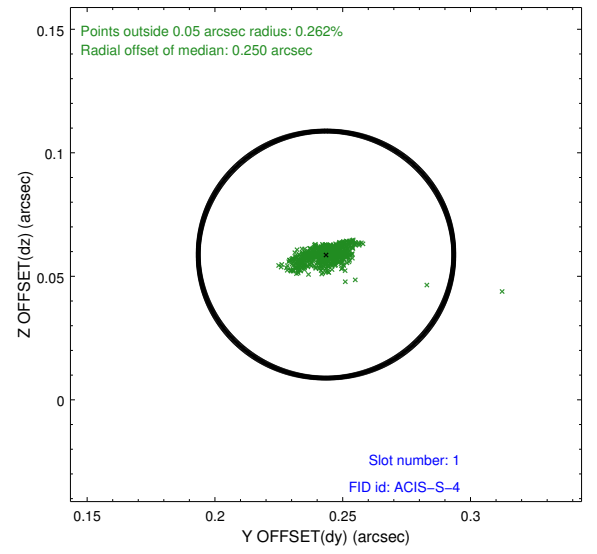
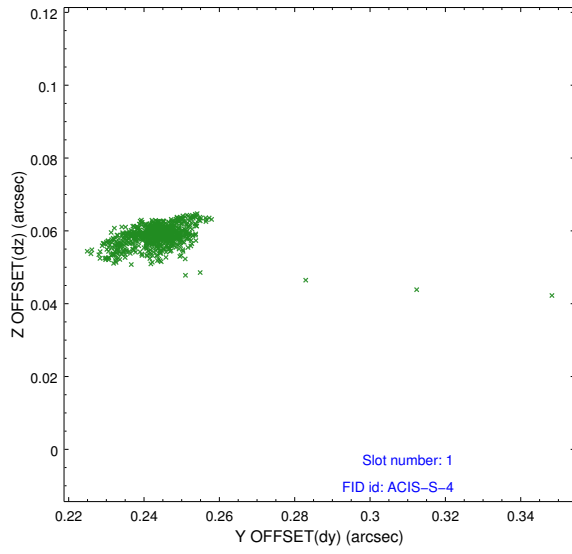


2.5 FID Slots

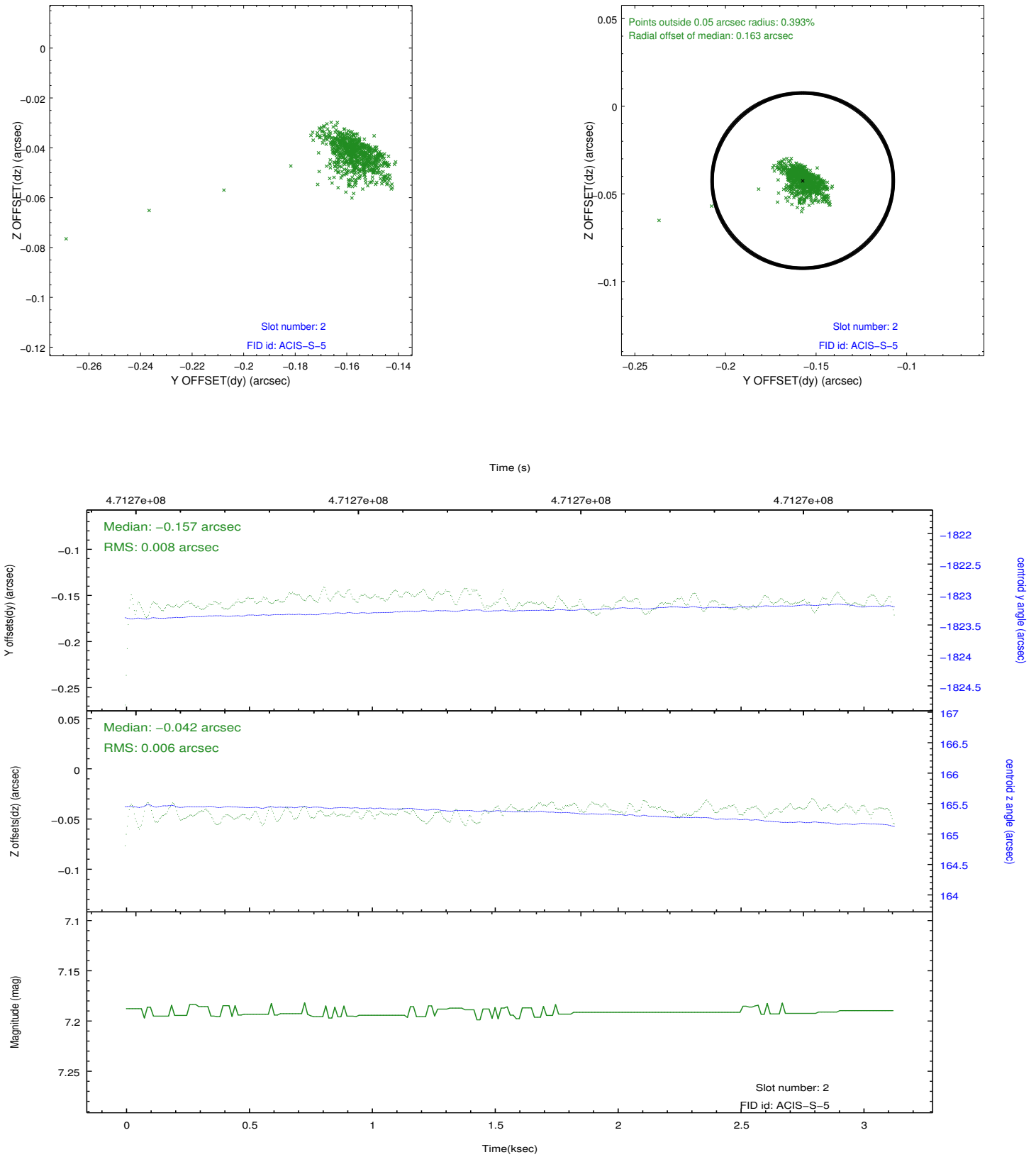
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0932999180555

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.