

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15329 - L2 Version 2
Chandra X-Ray Center

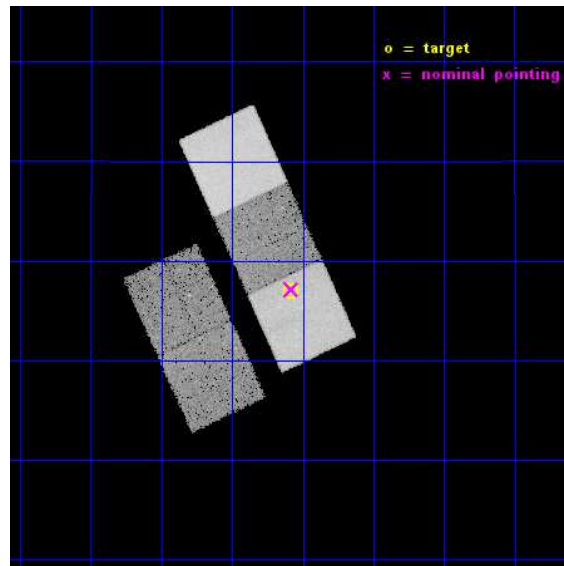
L2 Processing Date : Dec 1 2014

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1 Front

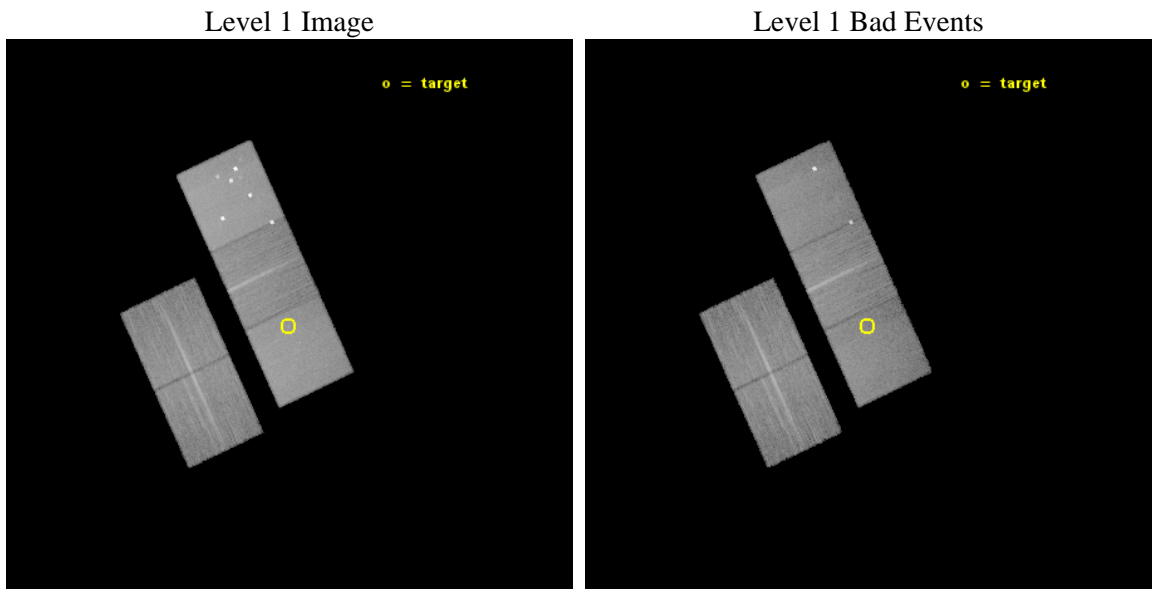
seq_num	601085	Sequence number
obs_id	15329	Observation id
title	NGC2940, a low stellar mass galaxy with unusually large velocity dispersion	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	NGC2940	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	144.521667	Observer's specified target RA [deg]
dec_targ	9.616667	Observer's specified target Dec [deg]
ra_nom	144.5199967158	Nominal RA [deg]
dec_nom	9.6192245832909	Nominal Dec [deg]
roll_nom	65.141995165416	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30069.070240557	Sum of GTIs [s]
livetime	29676.195701337	Livetime [s]
ontime2	30068.906080544	Sum of GTIs [s]
ontime3	30068.947120547	Sum of GTIs [s]
ontime5	30069.029200554	Sum of GTIs [s]
ontime6	30068.988160551	Sum of GTIs [s]
ontime7	30069.070240557	Sum of GTIs [s]
l2events	262323	Number of level 2 events



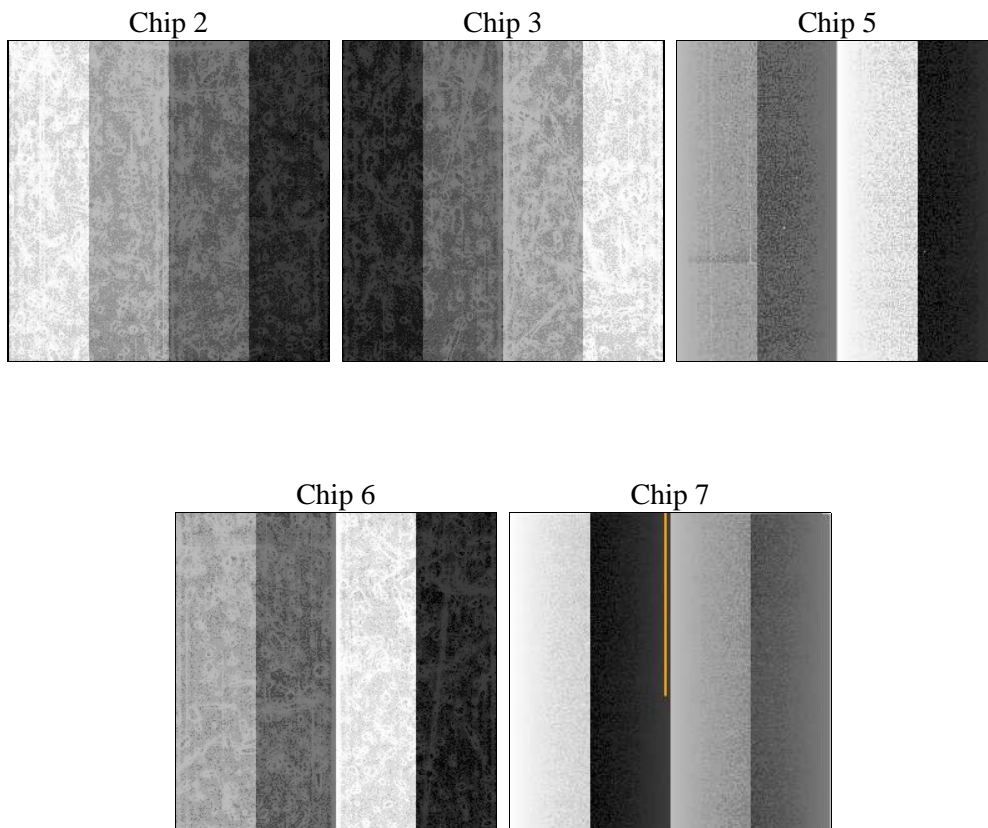
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	30069.070240557	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	30068.906080544	Sum of GTIs [s]
date	2014-12-01T07:22:45	Date and time of file creation	ontime3	30068.947120547	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	30069.029200554	Sum of GTIs [s]
			ontime6	30068.988160551	Sum of GTIs [s]
			ontime7	30069.070240557	Sum of GTIs [s]
			l1events	1010655	Number of level 1 events

2.1.4 Events

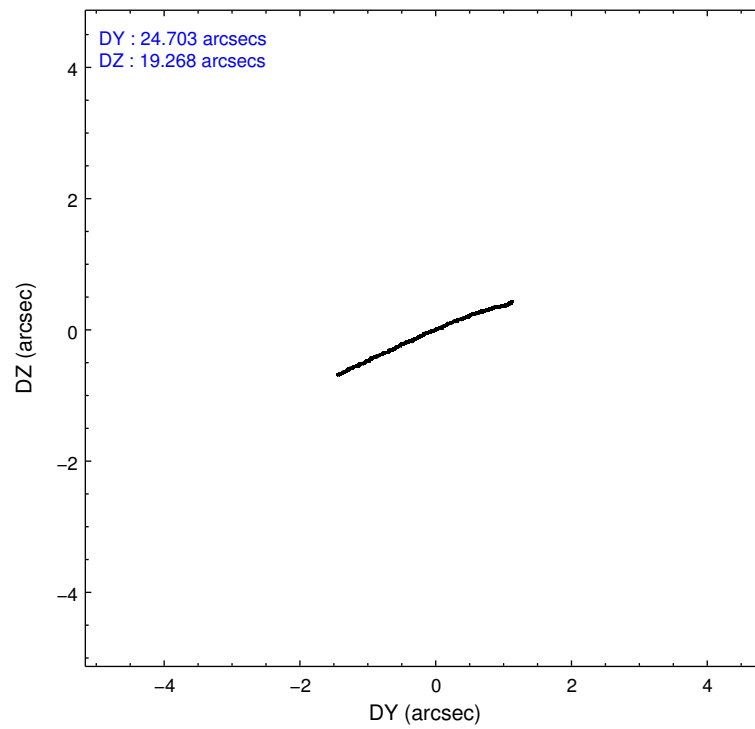
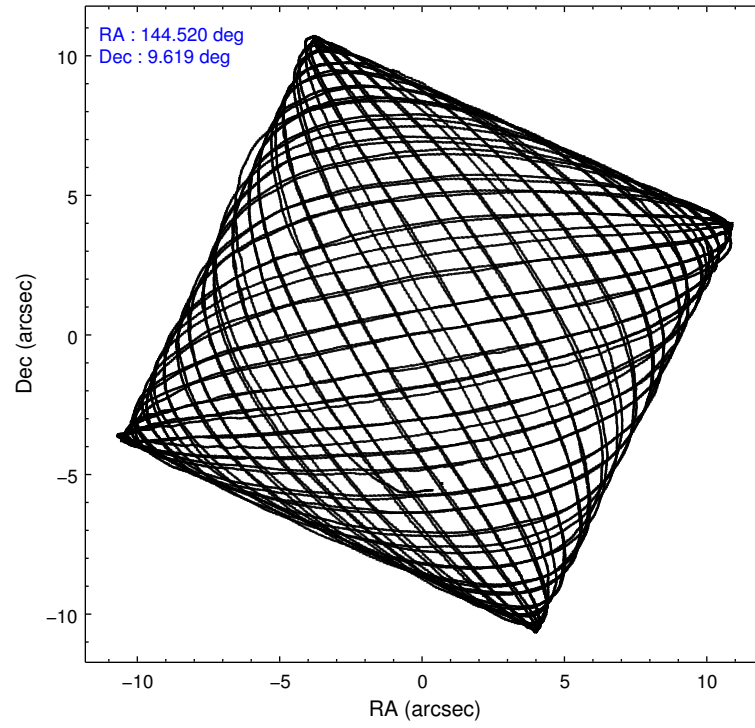
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	159259	155526	307032	168209	220629
rejected events	141555	137916	149040	148682	125349
rejected %	88%	88%	48%	88%	56%

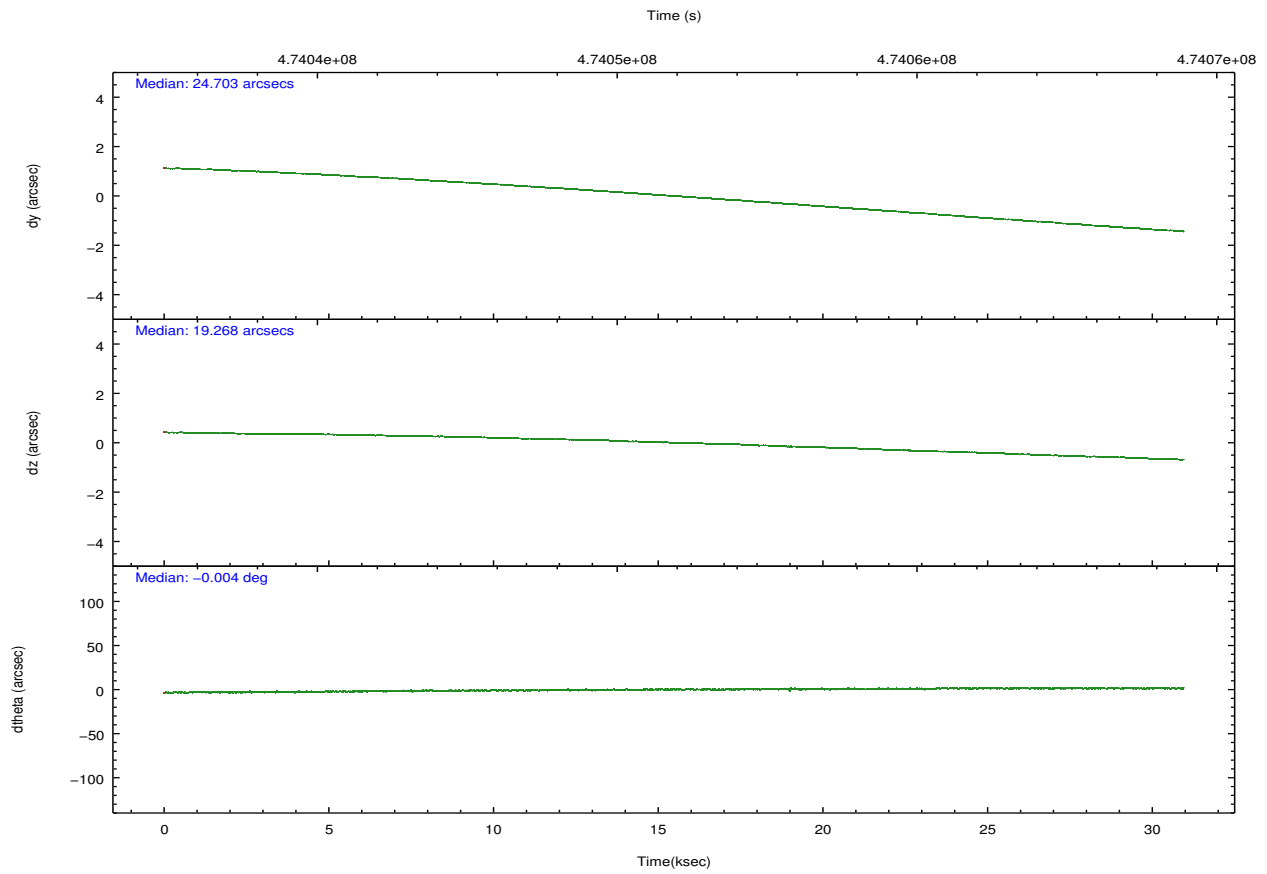
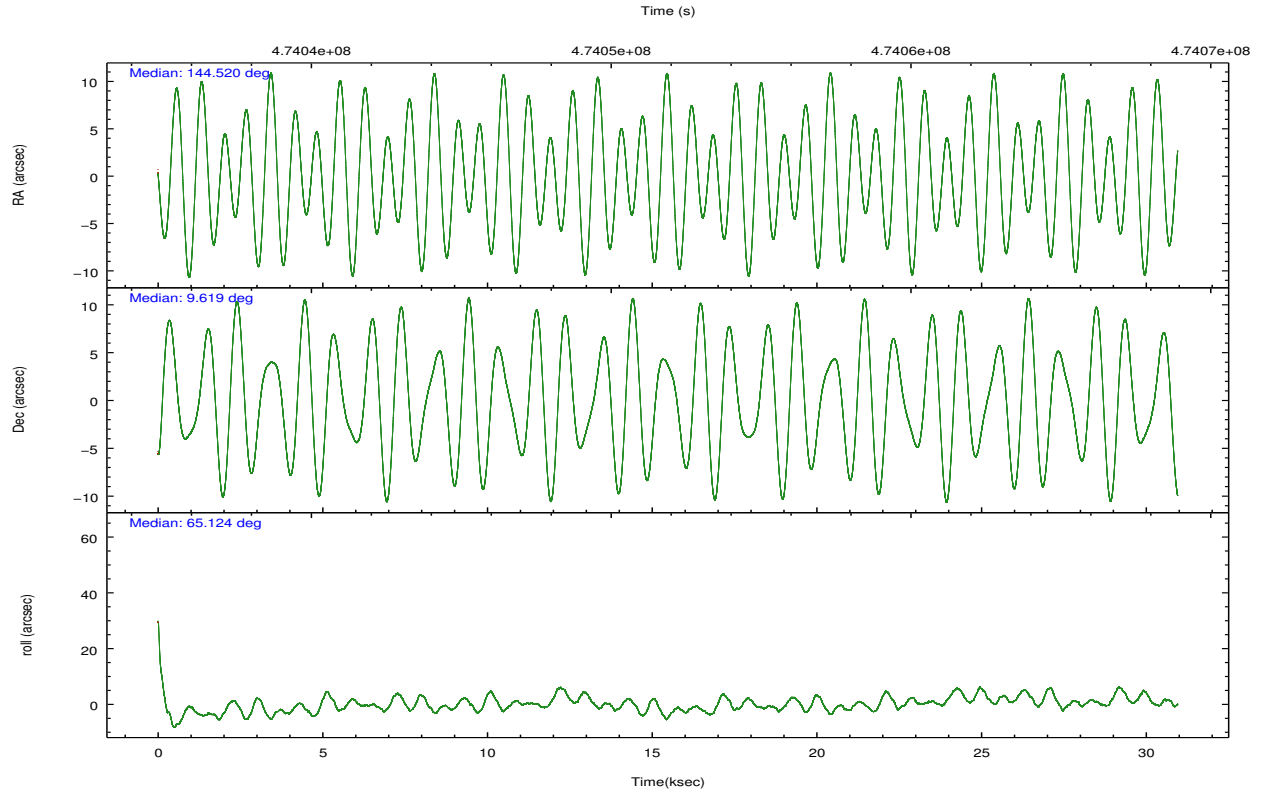
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	6135	6055	32812	6483	8225
	3%	3%	10%	3%	3%
grade 1 events	93	115	979	64	234
	0%	0%	0%	0%	0%
grade 2 events	4371	3917	42268	4586	19437
	2%	2%	13%	2%	8%
grade 3 events	1825	1960	5104	1849	7950
	1%	1%	1%	1%	3%
grade 4 events	1853	1889	4418	2004	7905
	1%	1%	1%	1%	3%
grade 5 events	6772	8425	21823	8371	22408
	4%	5%	7%	4%	10%
grade 6 events	3521	3791	73407	4608	51773
	2%	2%	23%	2%	23%
grade 7 events	134689	129374	126221	140244	102697
	84%	83%	41%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	144.522870	144.519996715803	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.592026	9.619224583290935	Alternating exposures requested	N	N
[deg] Pointing Roll	64.984875	65.14199516541646	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	474037368.184000	474036044.0013			
Observation start date	2013-01-08T13:01:41	2013-01-08T12:40:44			
[s] Observation end time (MET)	474067368.184000	474068160.32804			
Observation end date	2013-01-08T21:21:41	2013-01-08T21:36:00			
Read mode	TIMED	TIMED			

2.3 Aspect



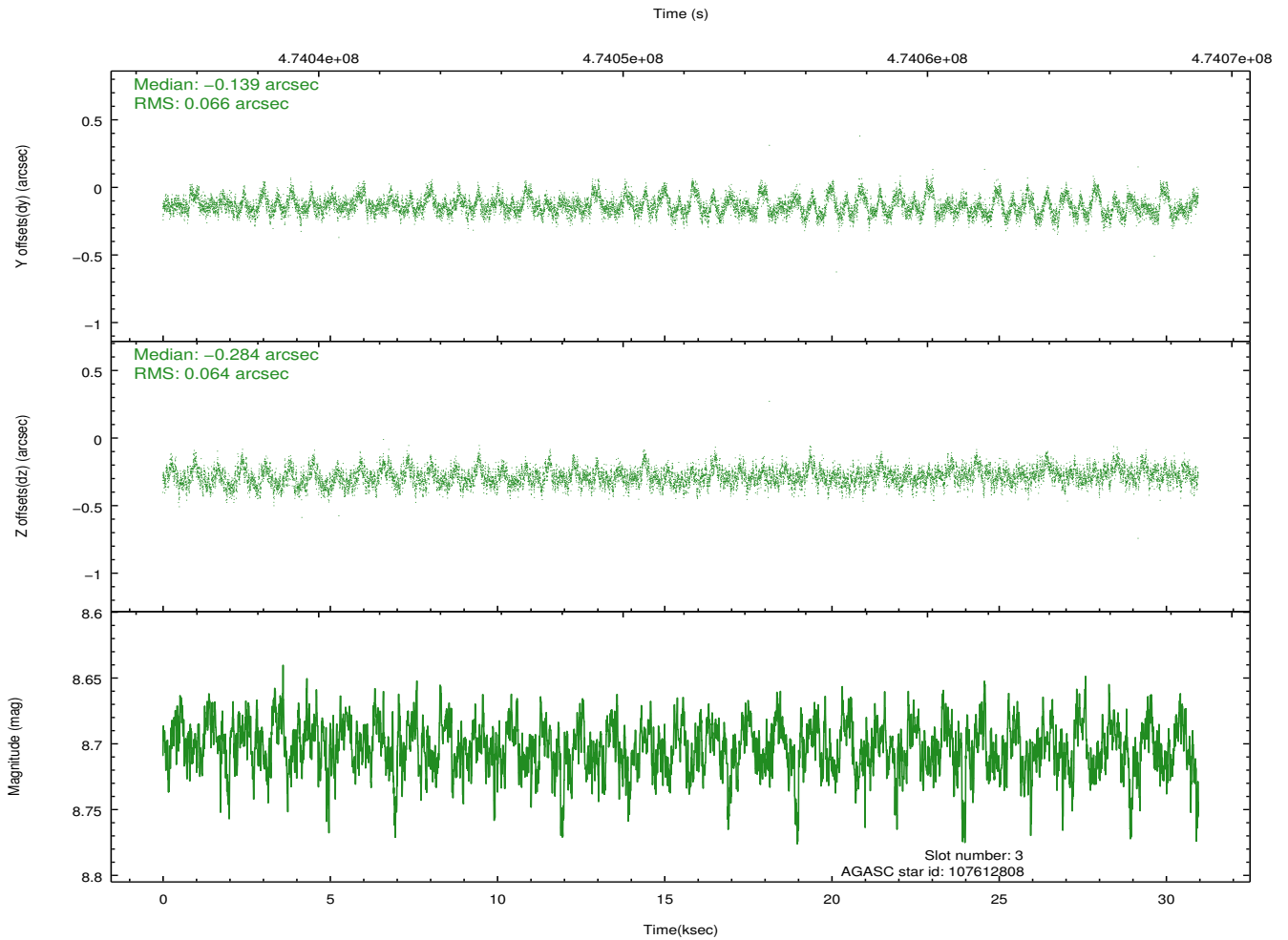
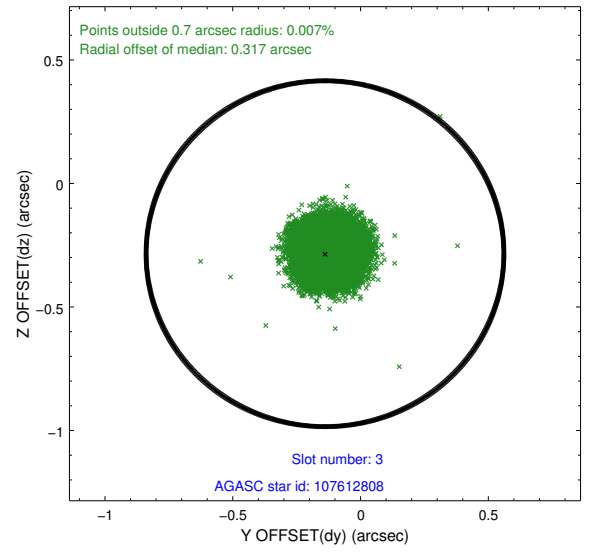
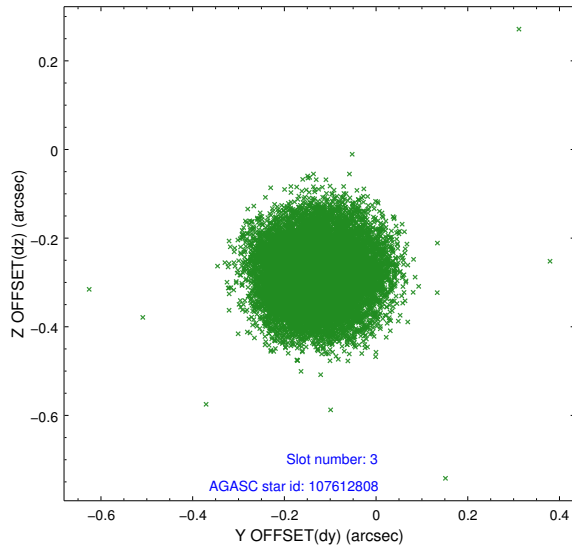


Slot Statistics

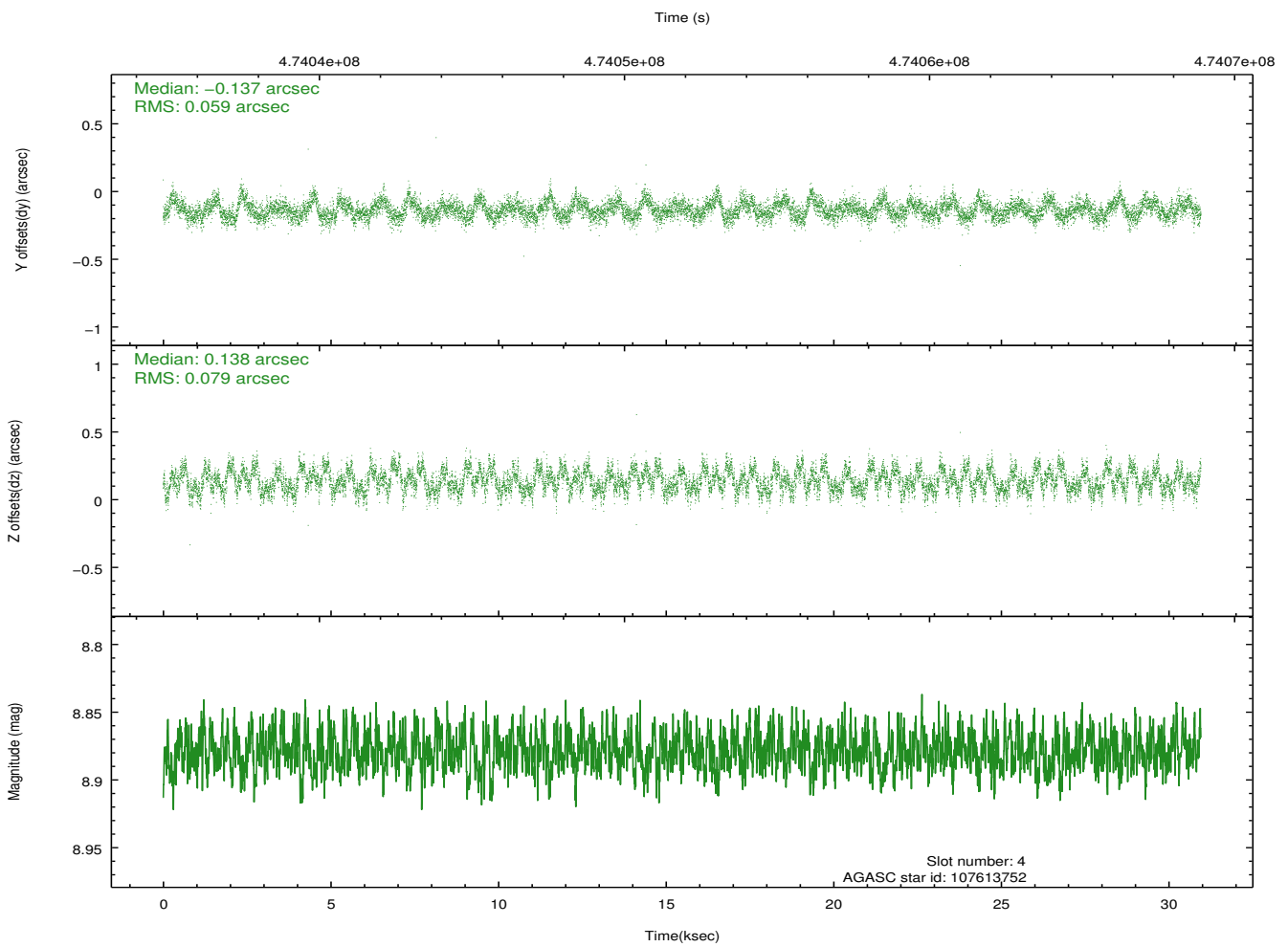
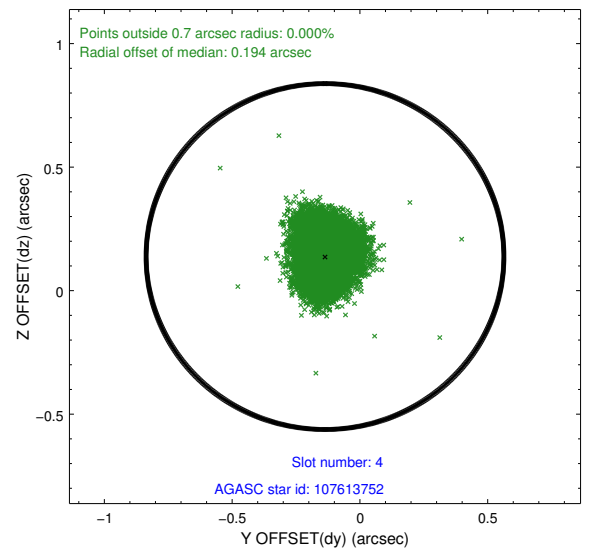
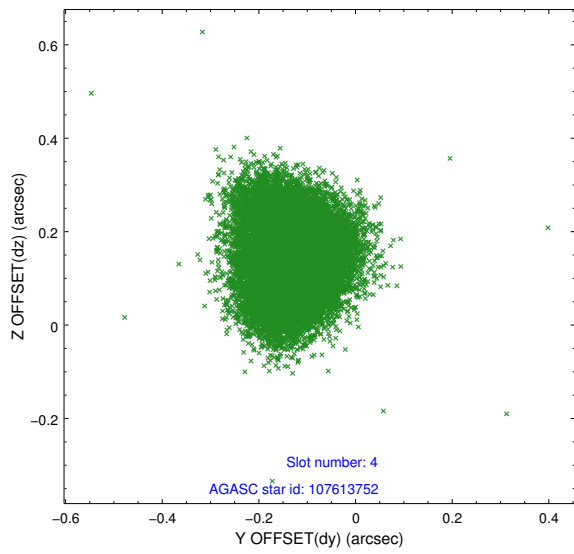
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	7549	-0.191	-0.062	0.031	0.066	0.000000	0.000000	-778.07	-1740.72
1	FID		ACIS-S-4	7.13	7552	0.391	0.106	0.011	0.037	0.000000	0.000000	2135.75	167.85
2	FID		ACIS-S-5	7.16	7552	-0.239	-0.038	0.032	0.054	0.000000	0.000000	-1830.88	161.47
3	GUIDE	used	107612808	8.70	15101	-0.139	-0.284	0.098	0.157	144.138269	9.673518	-310.91	1360.72
4	GUIDE	used	107613752	8.88	15090	-0.137	0.138	0.107	0.165	144.649189	9.626235	301.48	-353.97
5	GUIDE	used	107617024	8.33	15027	0.071	0.345	0.073	0.115	145.130994	9.426697	376.65	-2207.66
6	GUIDE	used	107618792	8.88	15095	0.065	0.168	0.080	0.128	144.990311	9.510841	438.53	-1627.28
7	GUIDE	used	108009480	9.41	14934	0.133	-0.377	0.138	0.229	144.547642	10.108214	1721.12	706.23

2.4 Star Slots

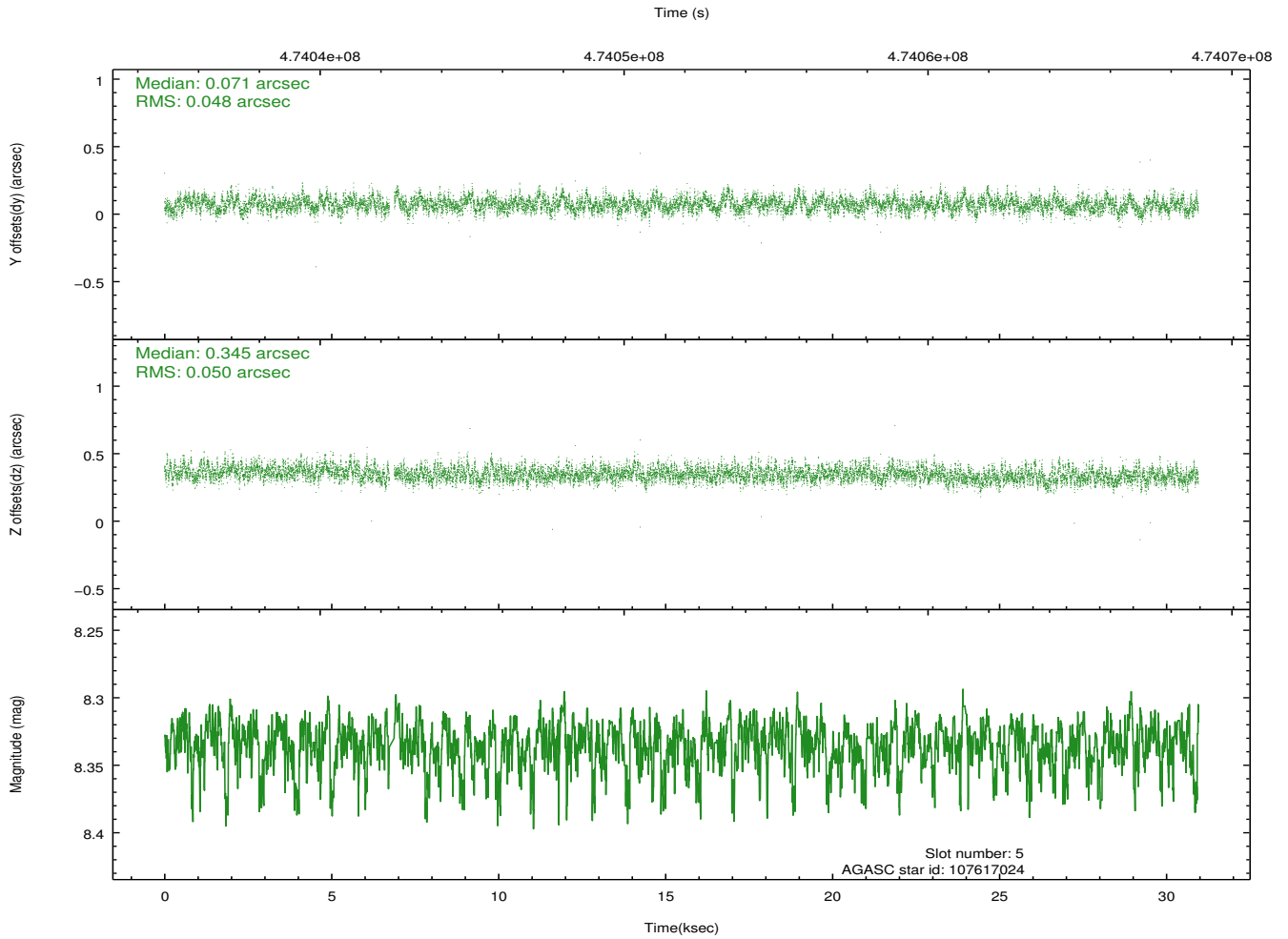
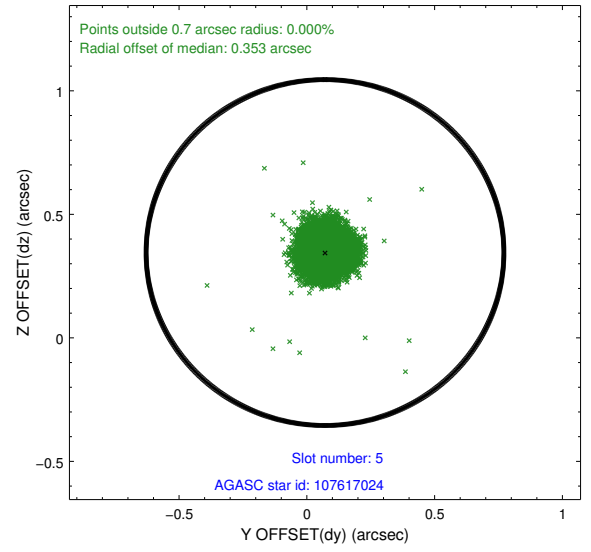
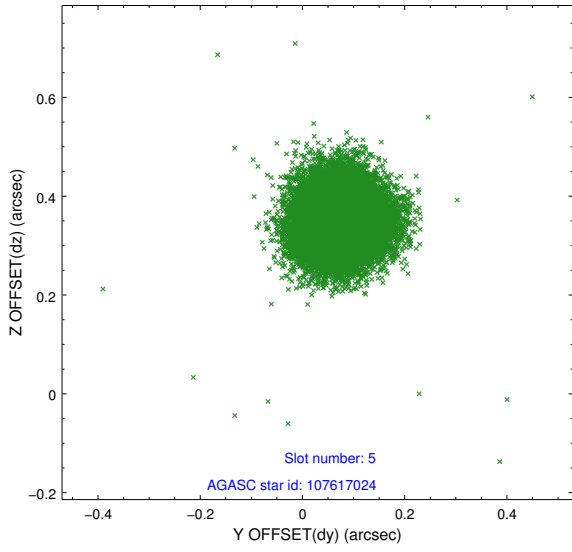
2.4.1 Slot 3



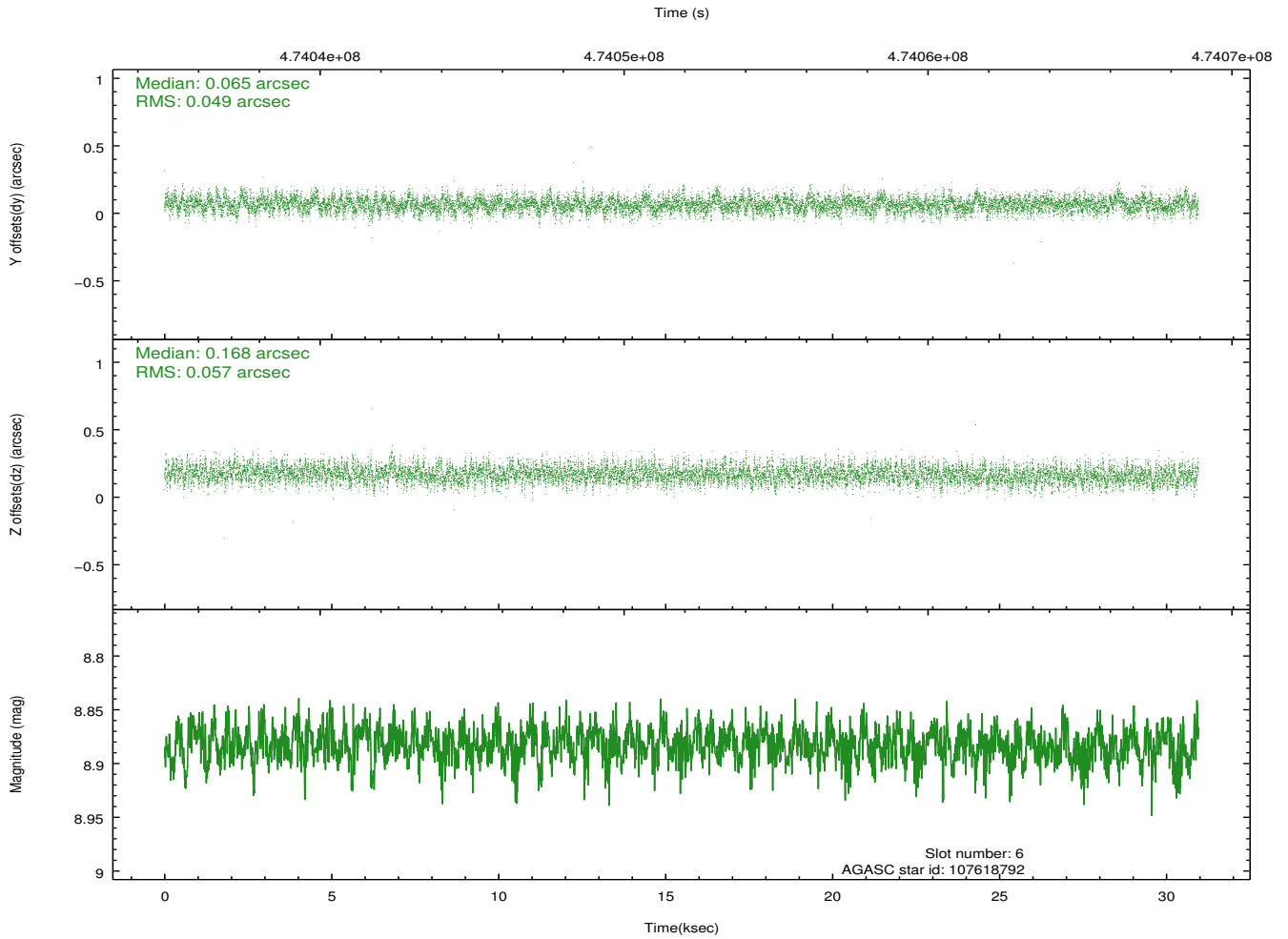
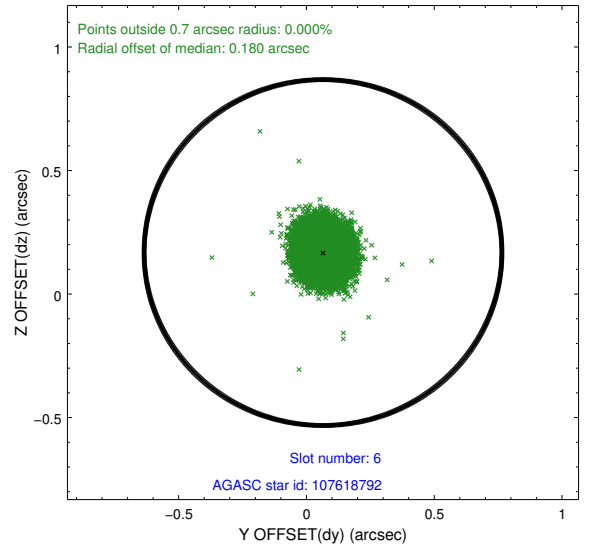
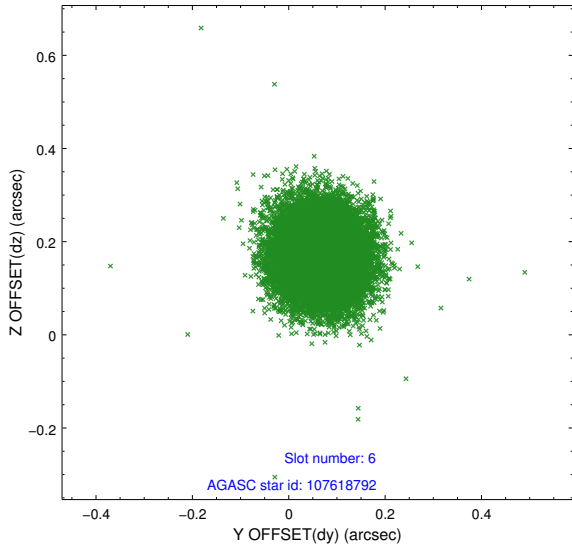
2.4.2 Slot 4



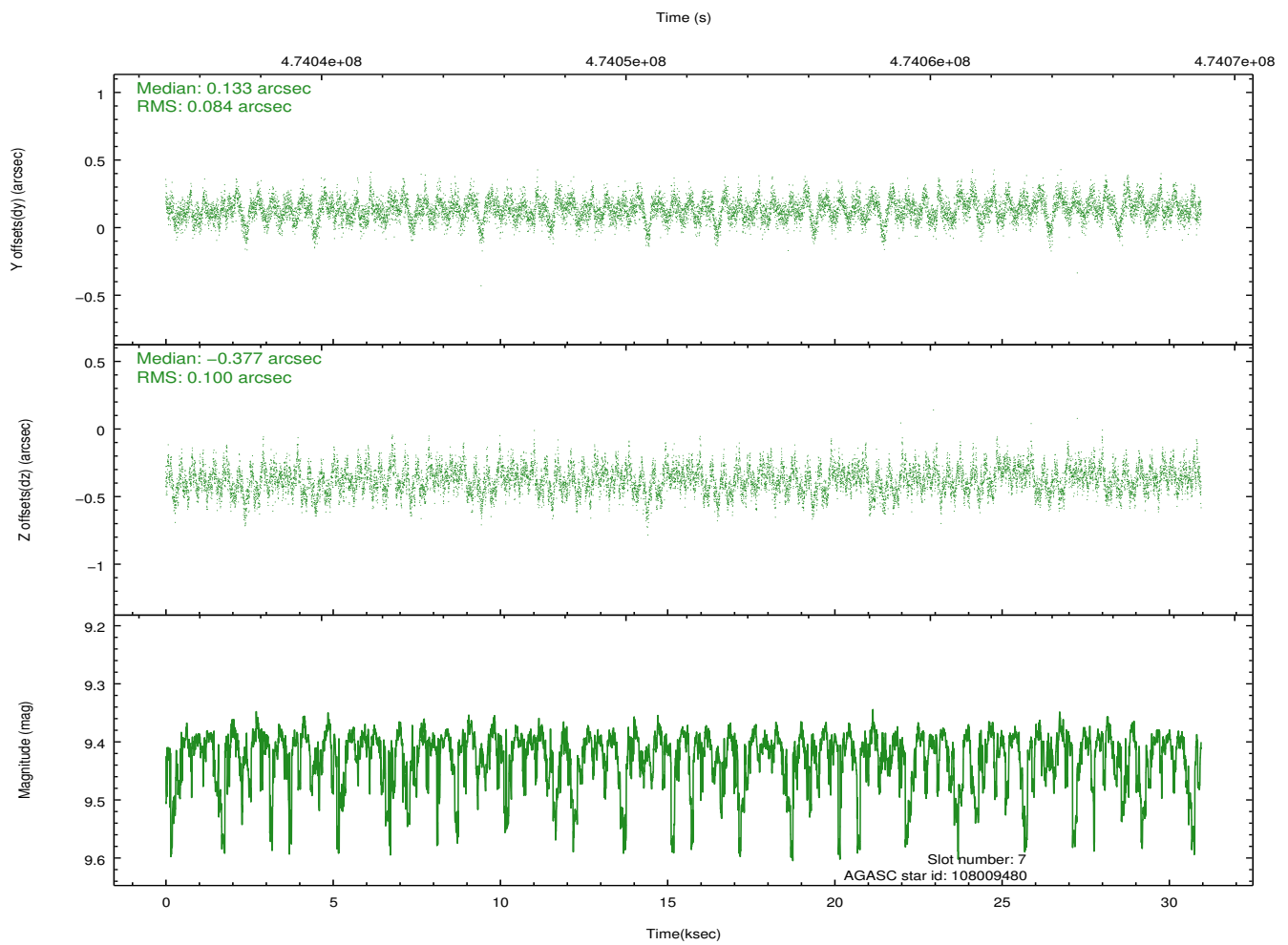
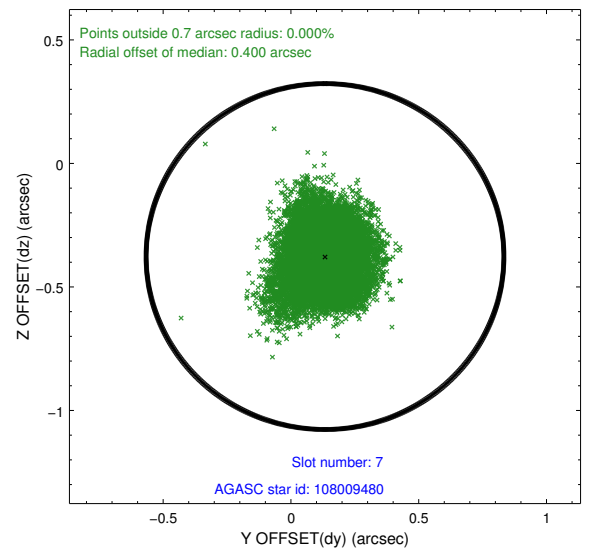
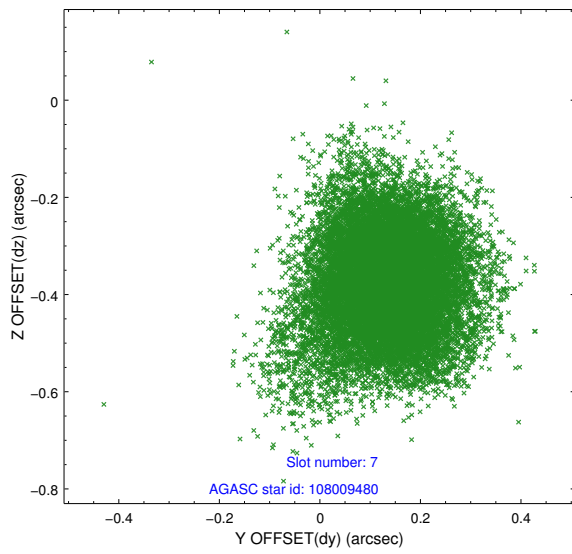
2.4.3 Slot 5



2.4.4 Slot 6

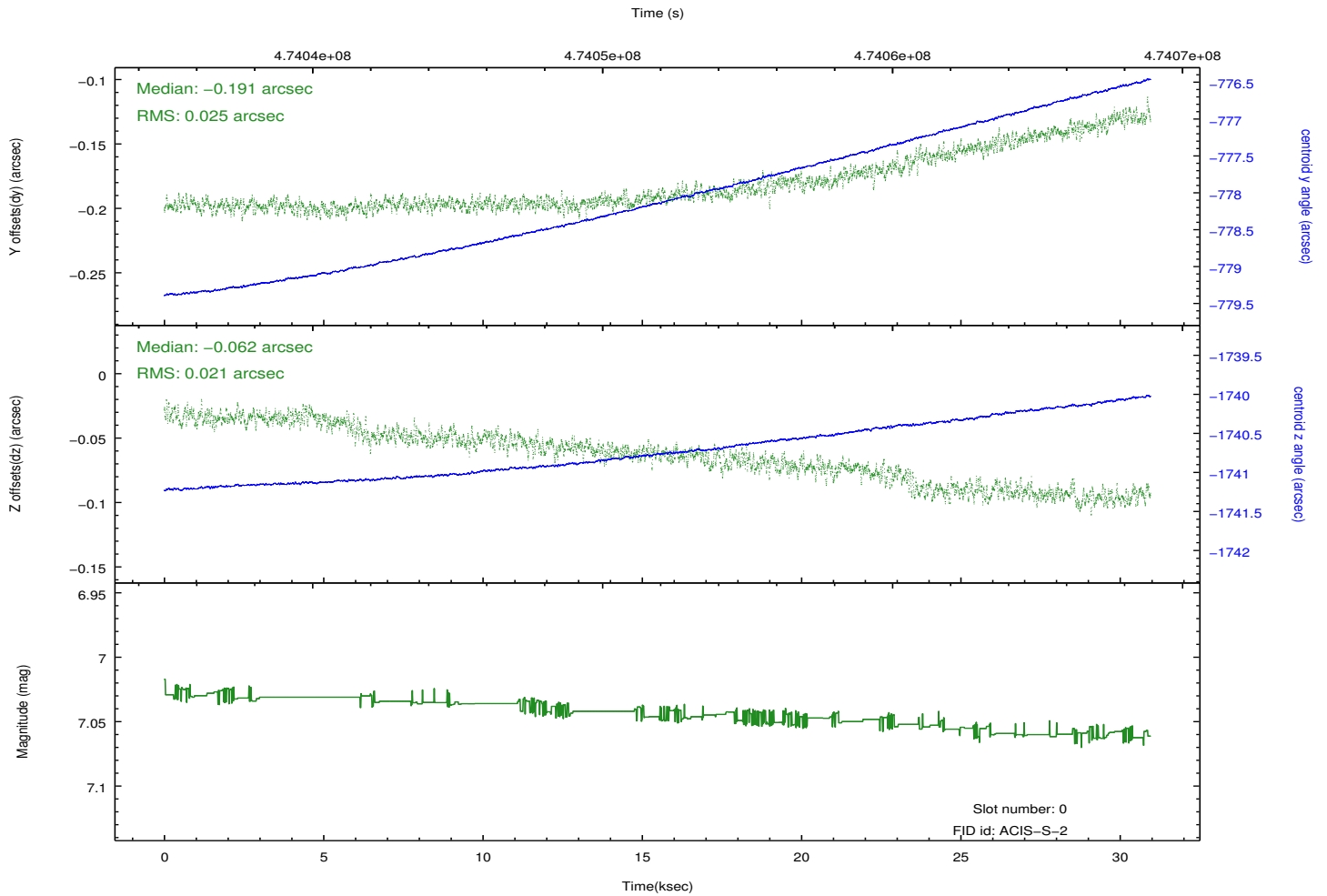
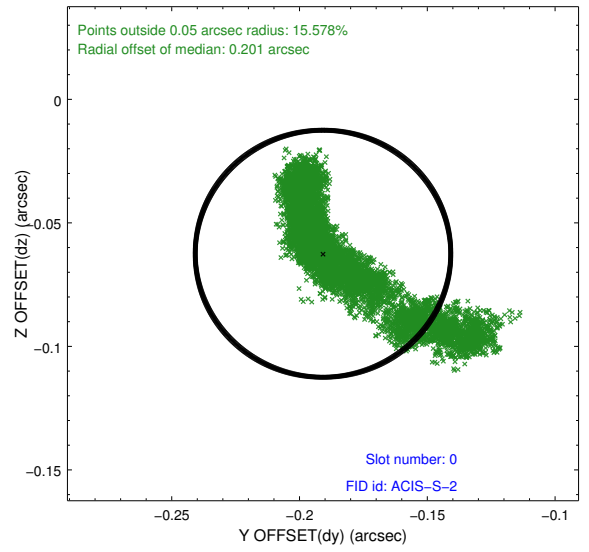
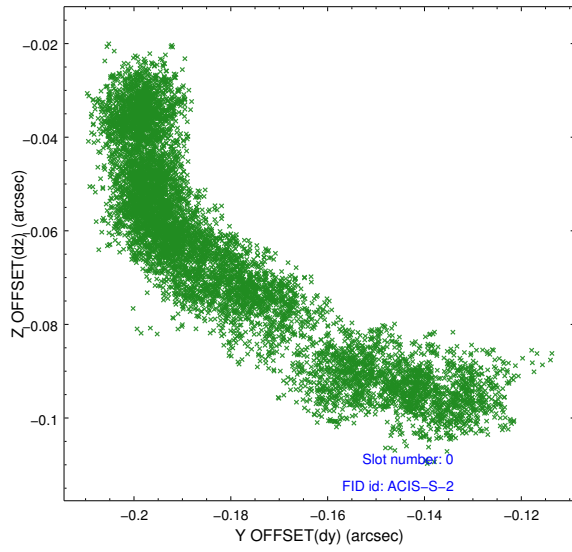


2.4.5 Slot 7

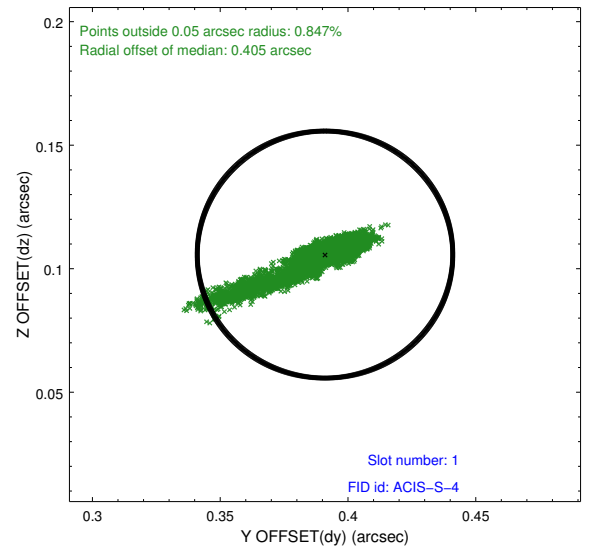
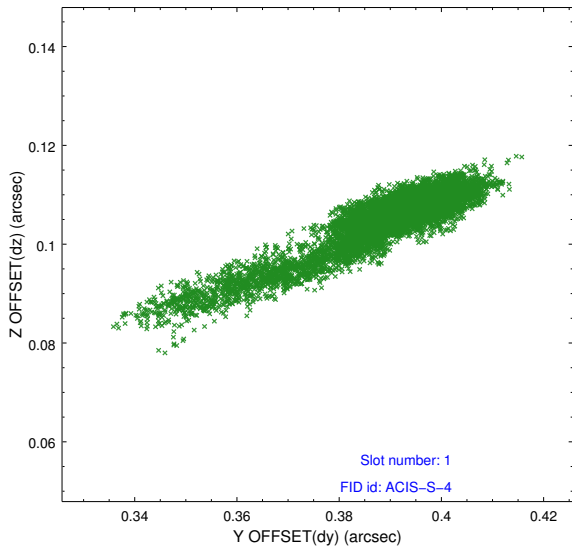


2.5 FID Slots

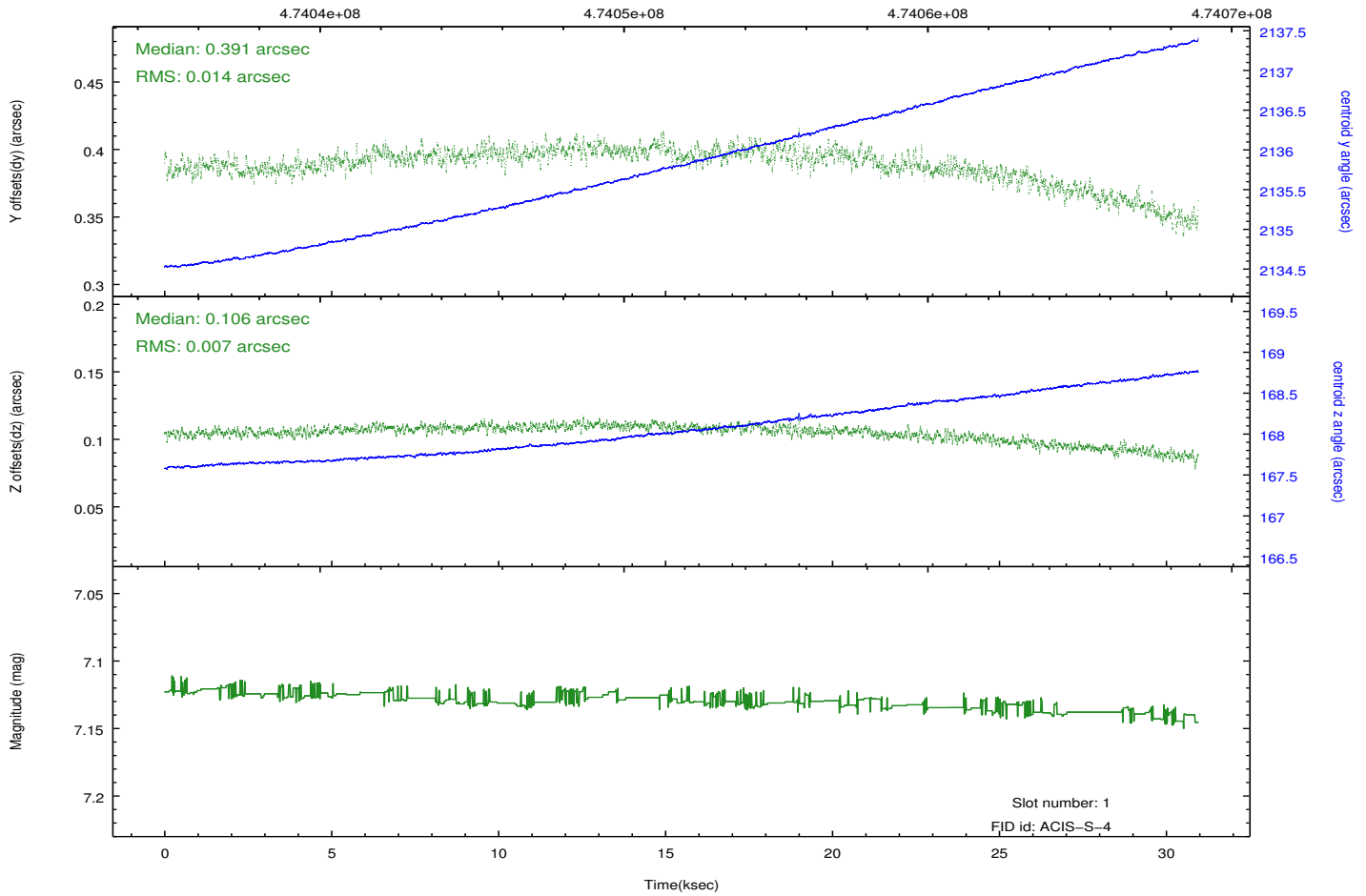
2.5.1 Slot 0



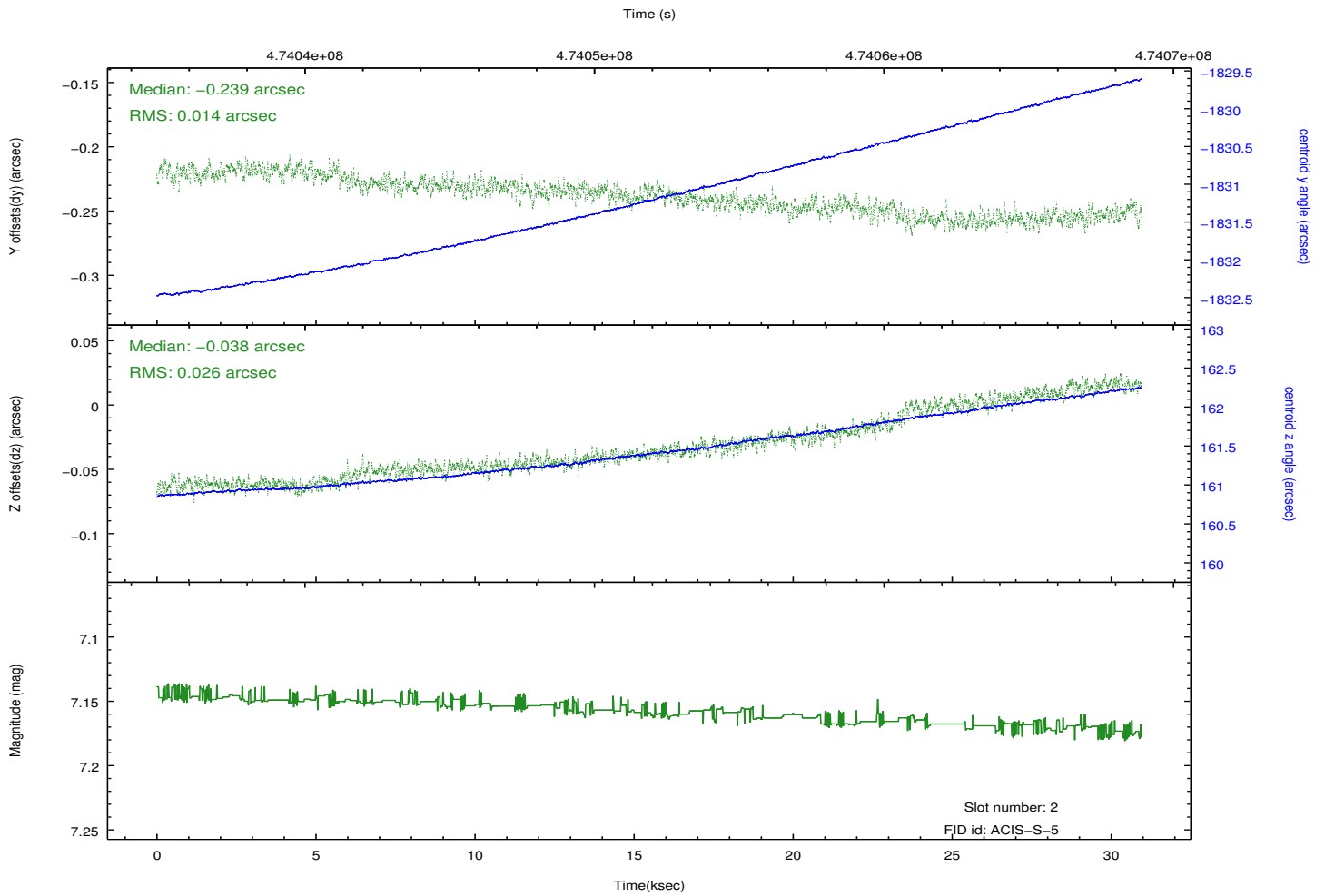
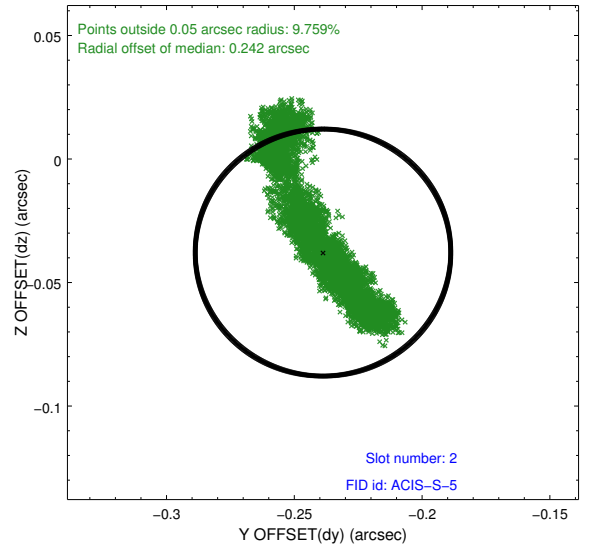
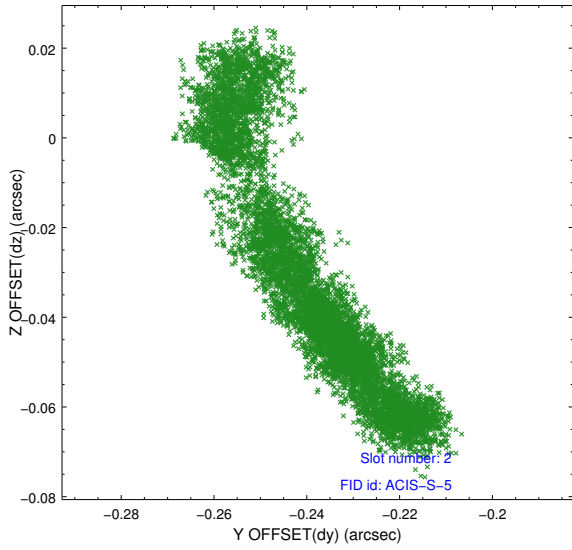
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.069070240557

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.