

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15244 - L2 Version 2
Chandra X-Ray Center

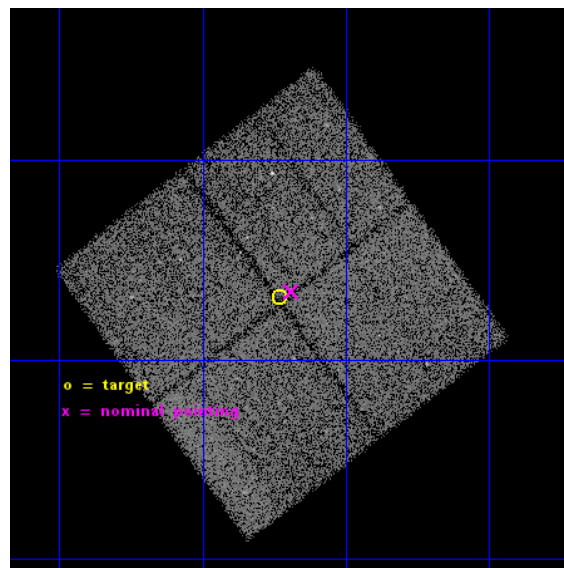
L2 Processing Date : Dec 9 2014

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1 Front

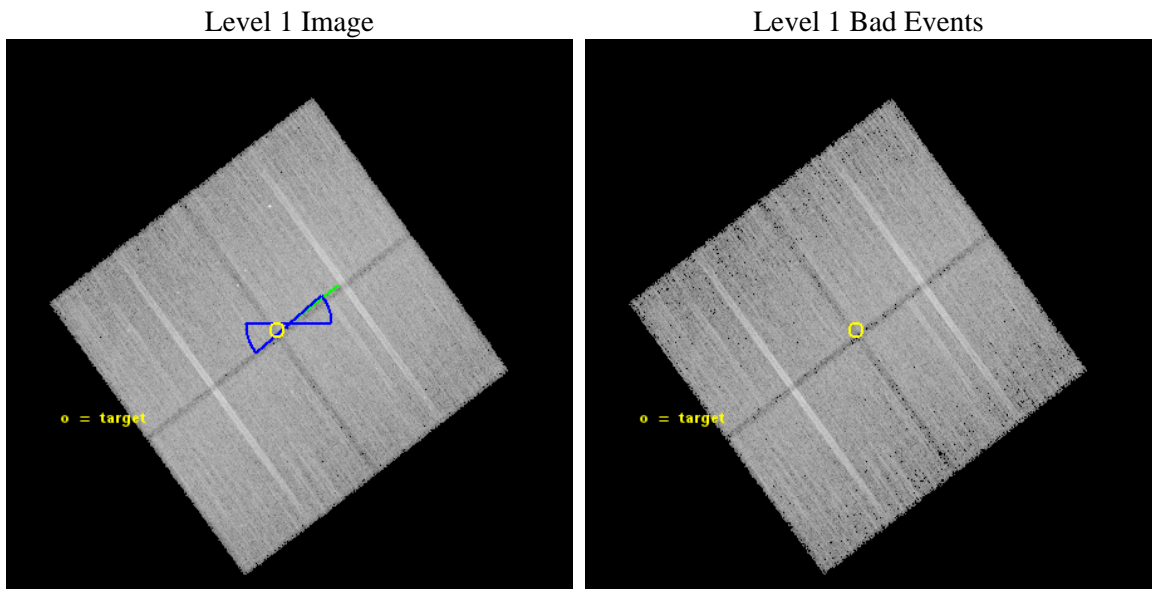
seq_num	901074	Sequence number
obs_id	15244	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.55809	Observer's specified target RA [deg]
dec_targ	1.718611	Observer's specified target Dec [deg]
ra_nom	149.54744280124	Nominal RA [deg]
dec_nom	1.7237597261028	Nominal Dec [deg]
roll_nom	53.209003590212	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48089.73722446	Sum of GTIs [s]
livetime	47461.409404473	Livetime [s]
ontime0	48086.555133581	Sum of GTIs [s]
ontime1	48089.73722446	Sum of GTIs [s]
ontime2	48092.919294834	Sum of GTIs [s]
ontime3	48089.819304466	Sum of GTIs [s]
l2events	92130	Number of level 2 events



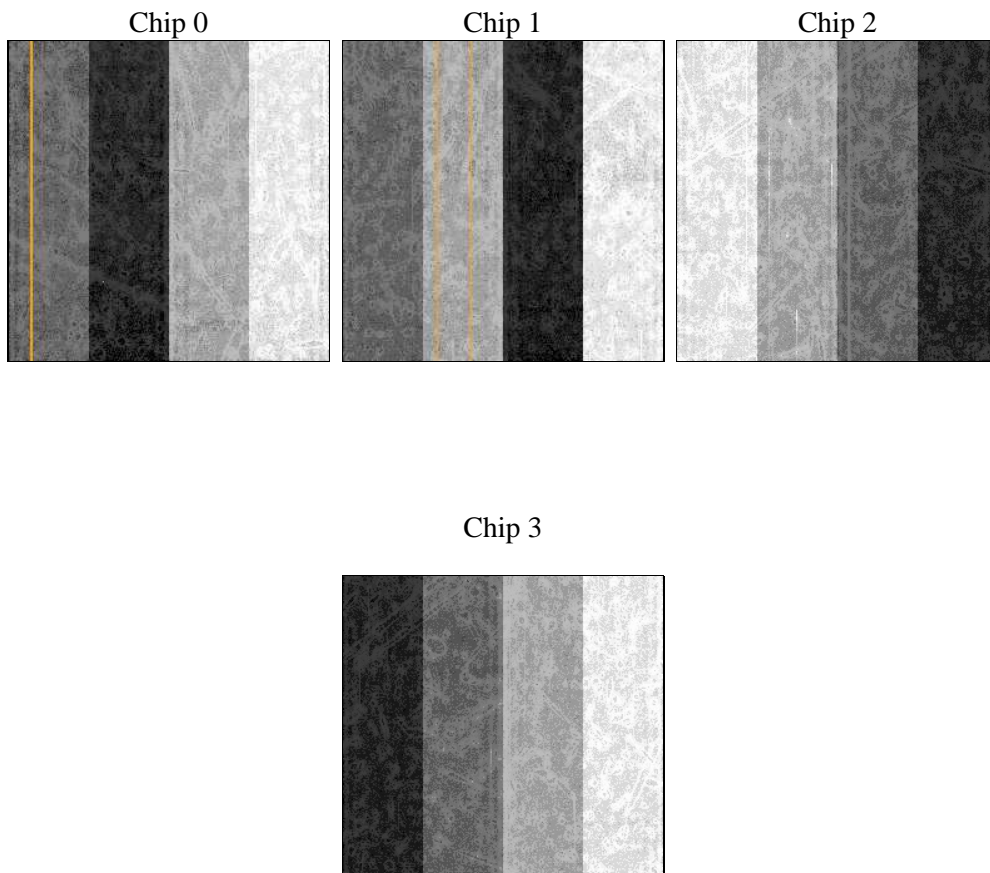
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	48089.73722446	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	48086.555133581	Sum of GTIs [s]
date	2014-12-10T00:31:39	Date and time of file creation	ontime1	48089.73722446	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	48092.919294834	Sum of GTIs [s]
			ontime3	48089.819304466	Sum of GTIs [s]
			l1events	871000	Number of level 1 events

2.1.4 Events

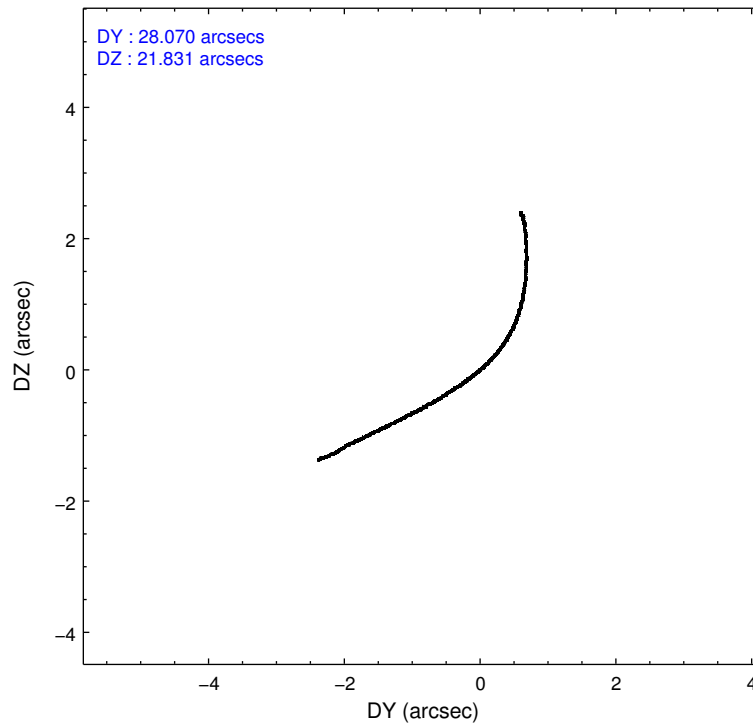
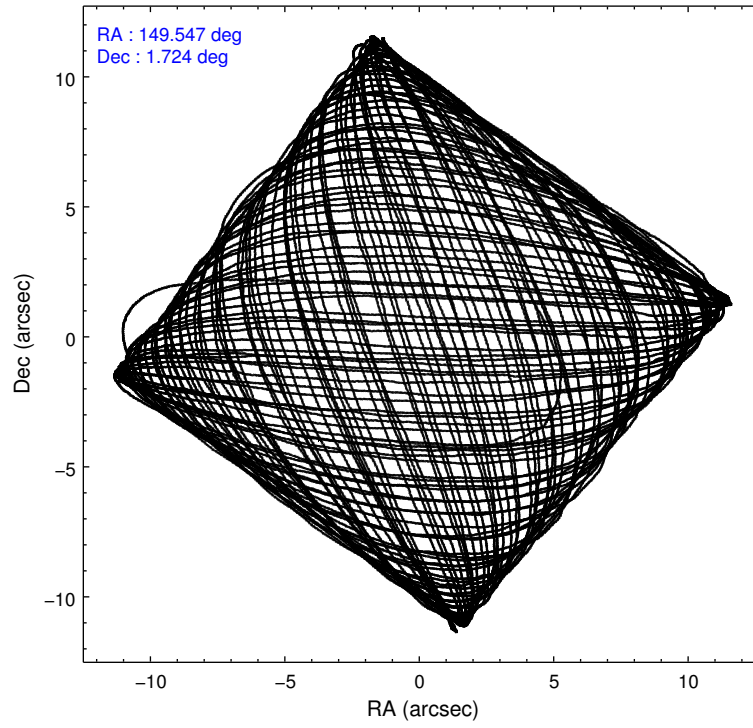
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	202960	213856	234577	219607
rejected events	175949	183901	207650	193761
rejected %	86%	85%	88%	88%

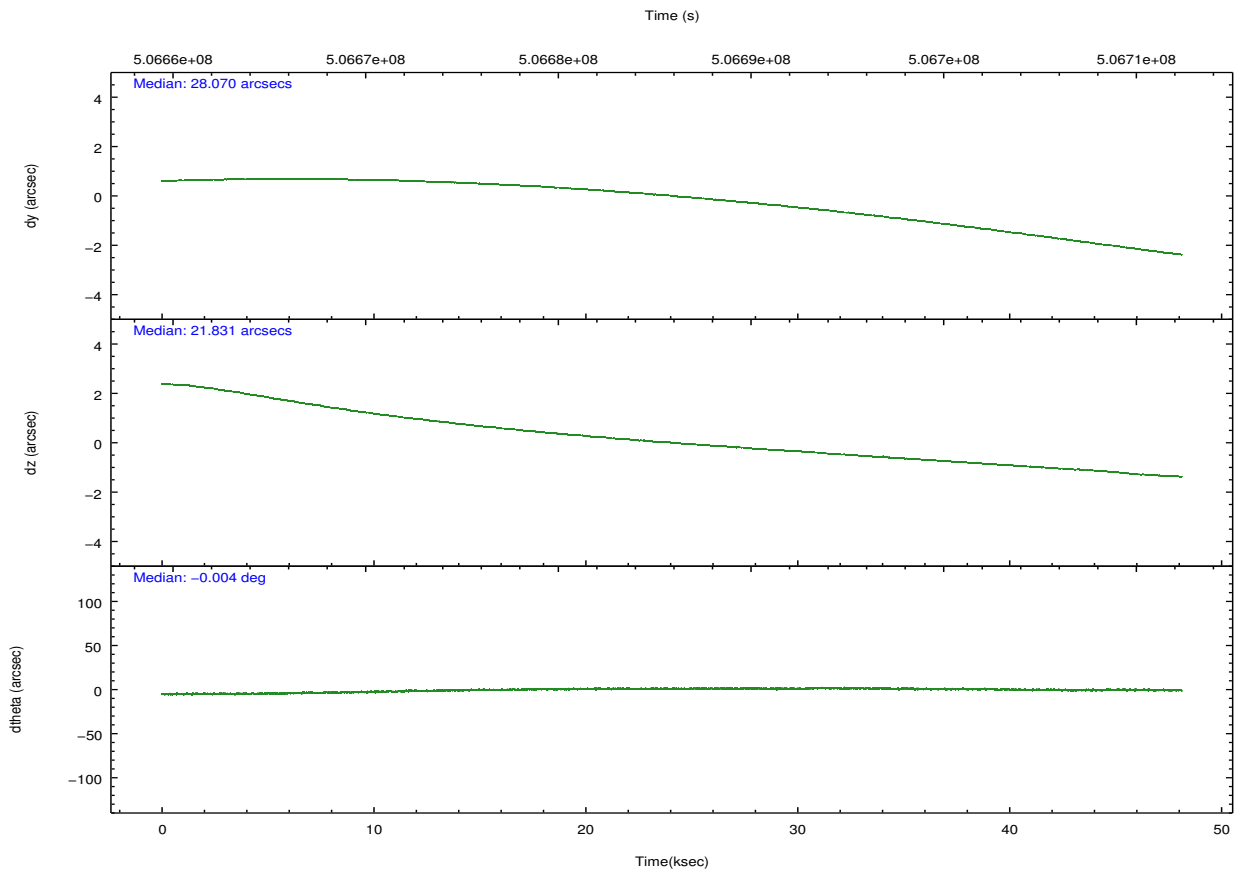
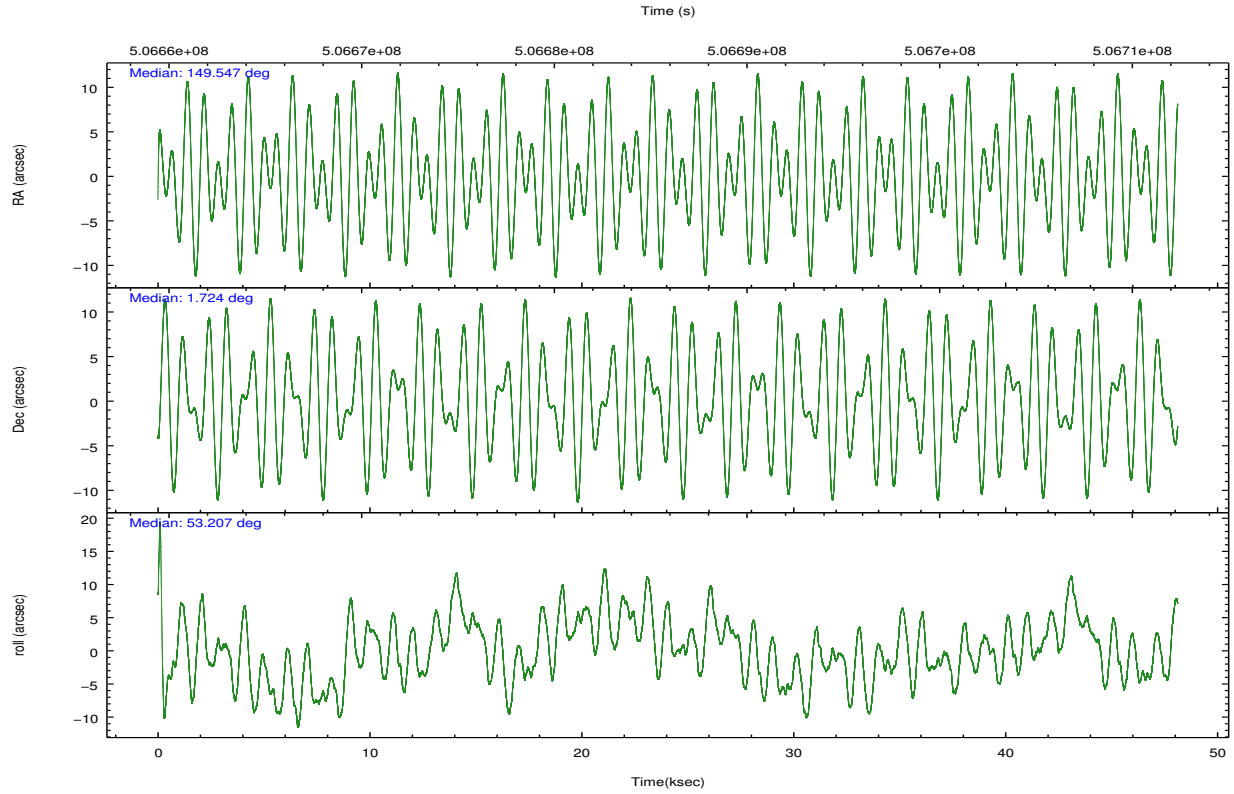
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8890	10109	9486	8725
	4%	4%	4%	3%
grade 1 events	114	113	132	143
	0%	0%	0%	0%
grade 2 events	6762	7204	6592	5957
	3%	3%	2%	2%
grade 3 events	2967	2839	2777	2701
	1%	1%	1%	1%
grade 4 events	2684	2888	2719	2911
	1%	1%	1%	1%
grade 5 events	11290	11984	10422	12646
	5%	5%	4%	5%
grade 6 events	5711	6918	5358	5553
	2%	3%	2%	2%
grade 7 events	164542	171801	197091	180971
	81%	80%	84%	82%

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	149.544298	149.547442801242	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.696442	1.723759726102787	Alternating exposures requested	N	N
[deg] Pointing Roll	53.000412	53.20900359021169	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	250.000000	250.000000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
[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)	506661941.184000	506660711.83958			
Observation start date	2014-01-21T03:24:34	2014-01-21T03:05:11			
[s] Observation end time (MET)	506709941.184000	506710975.79235			
Observation end date	2014-01-21T16:44:34	2014-01-21T17:02:55			
Read mode	TIMED	TIMED			

2.3 Aspect



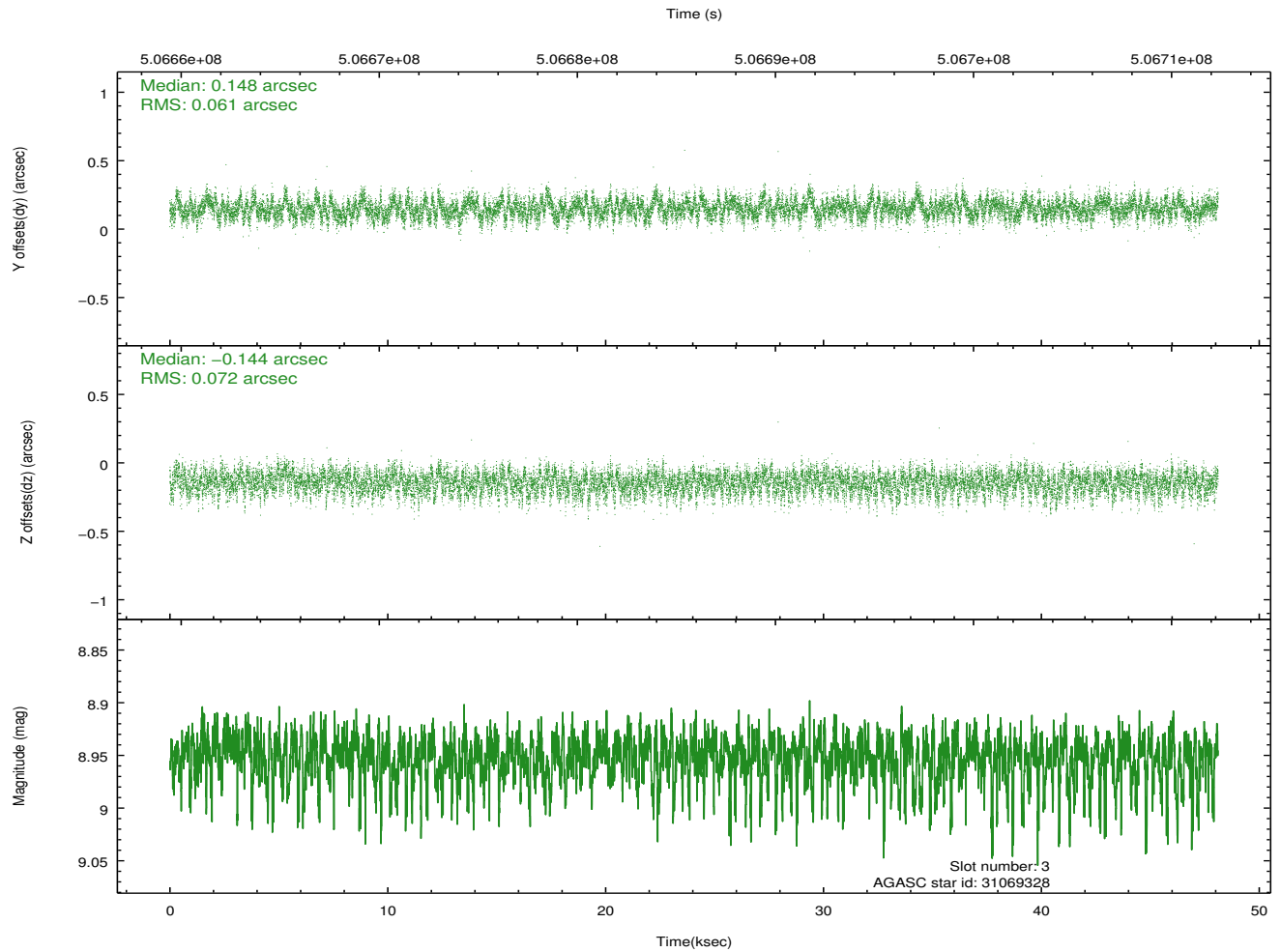
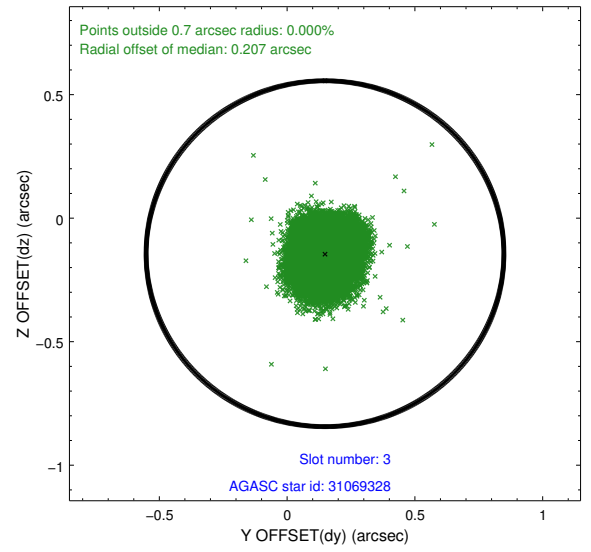
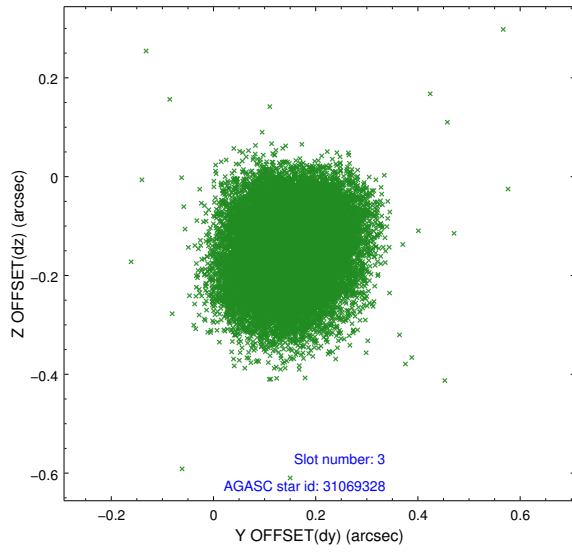


Slot Statistics

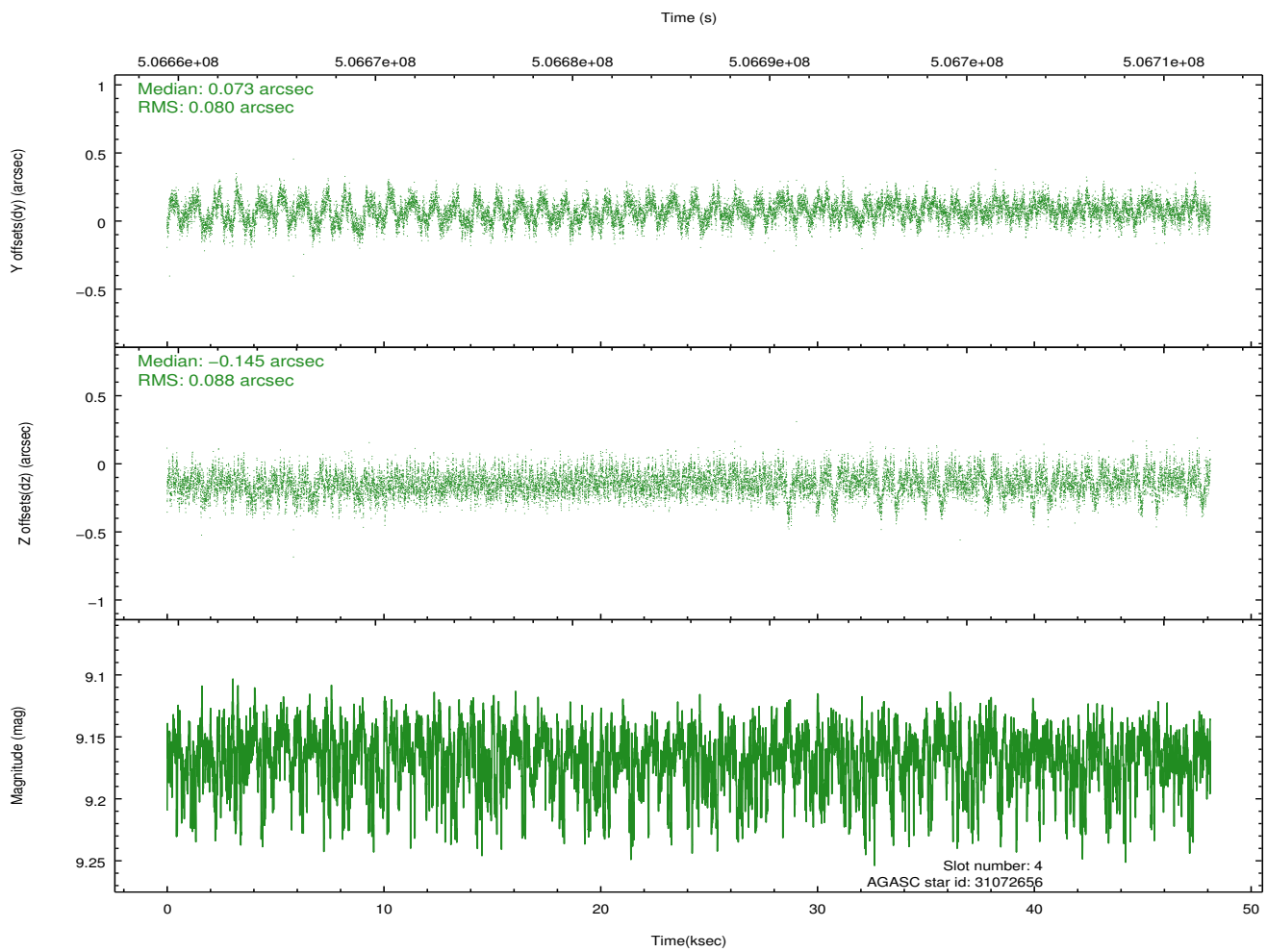
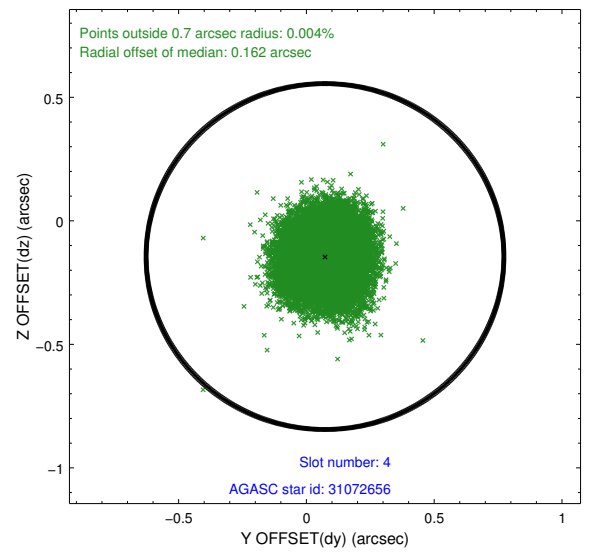
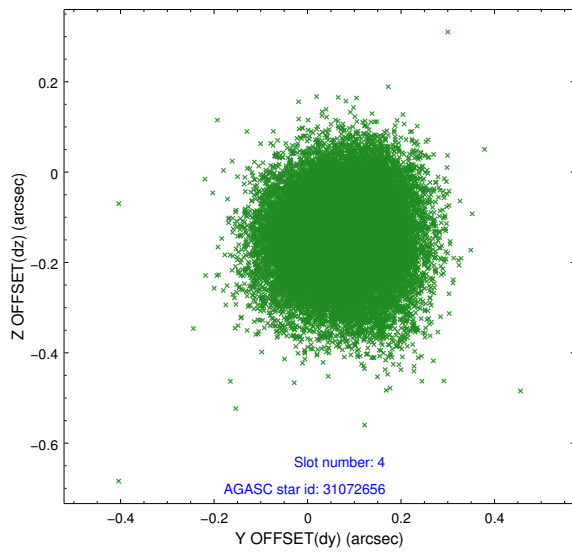
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	11737	0.052	-0.013	0.034	0.073	0.000000	0.000000	911.41	-845.77
1	FID		ACIS-I-5	7.12	11737	-0.291	0.035	0.011	0.020	0.000000	0.000000	-1837.10	1051.67
2	FID		ACIS-I-6	7.13	11738	0.149	0.044	0.034	0.056	0.000000	0.000000	376.99	1696.23
3	GUIDE	used	31069328	8.95	23458	0.148	-0.144	0.100	0.161	149.407760	1.639418	-458.88	269.17
4	GUIDE	used	31072656	9.17	23460	0.073	-0.145	0.127	0.204	149.313368	1.815013	-158.71	920.16
5	GUIDE	used	31073624	8.40	23466	0.256	0.301	0.097	0.160	149.328165	1.228123	-1814.03	-392.91
6	GUIDE	used	31075128	9.30	23457	-0.411	-0.124	0.125	0.200	149.584516	2.364347	2007.41	1331.59
7	GUIDE	used	31076560	9.64	23437	-0.085	0.111	0.196	0.366	149.884782	2.009277	1637.01	-300.70

2.4 Star Slots

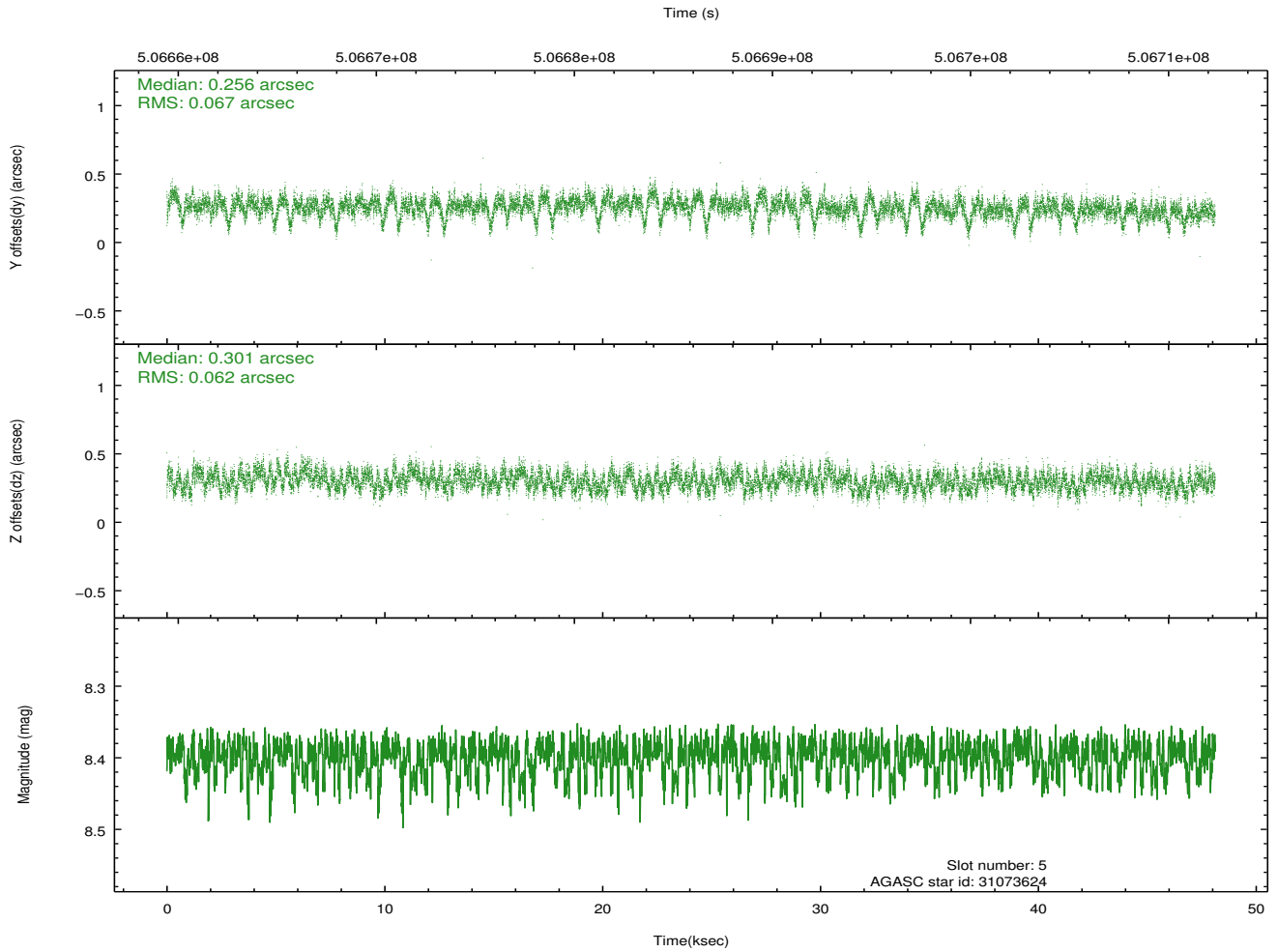
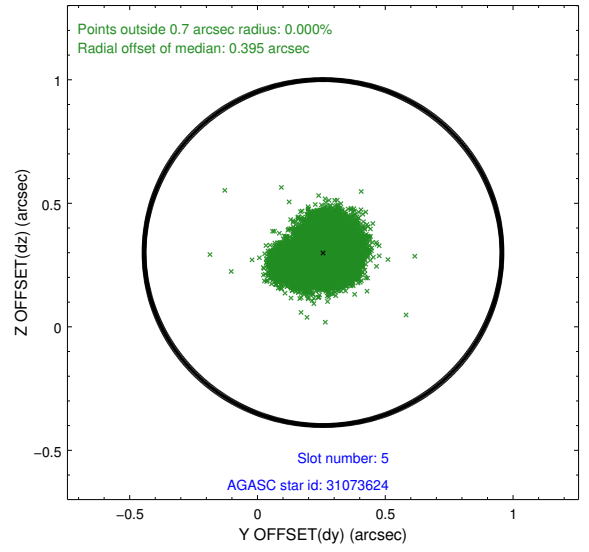
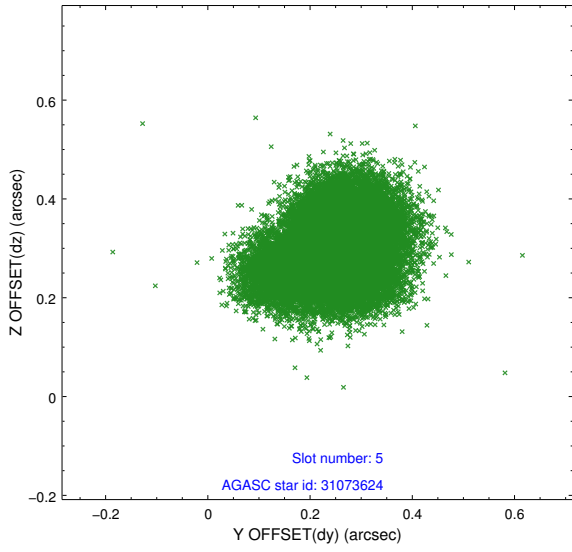
2.4.1 Slot 3



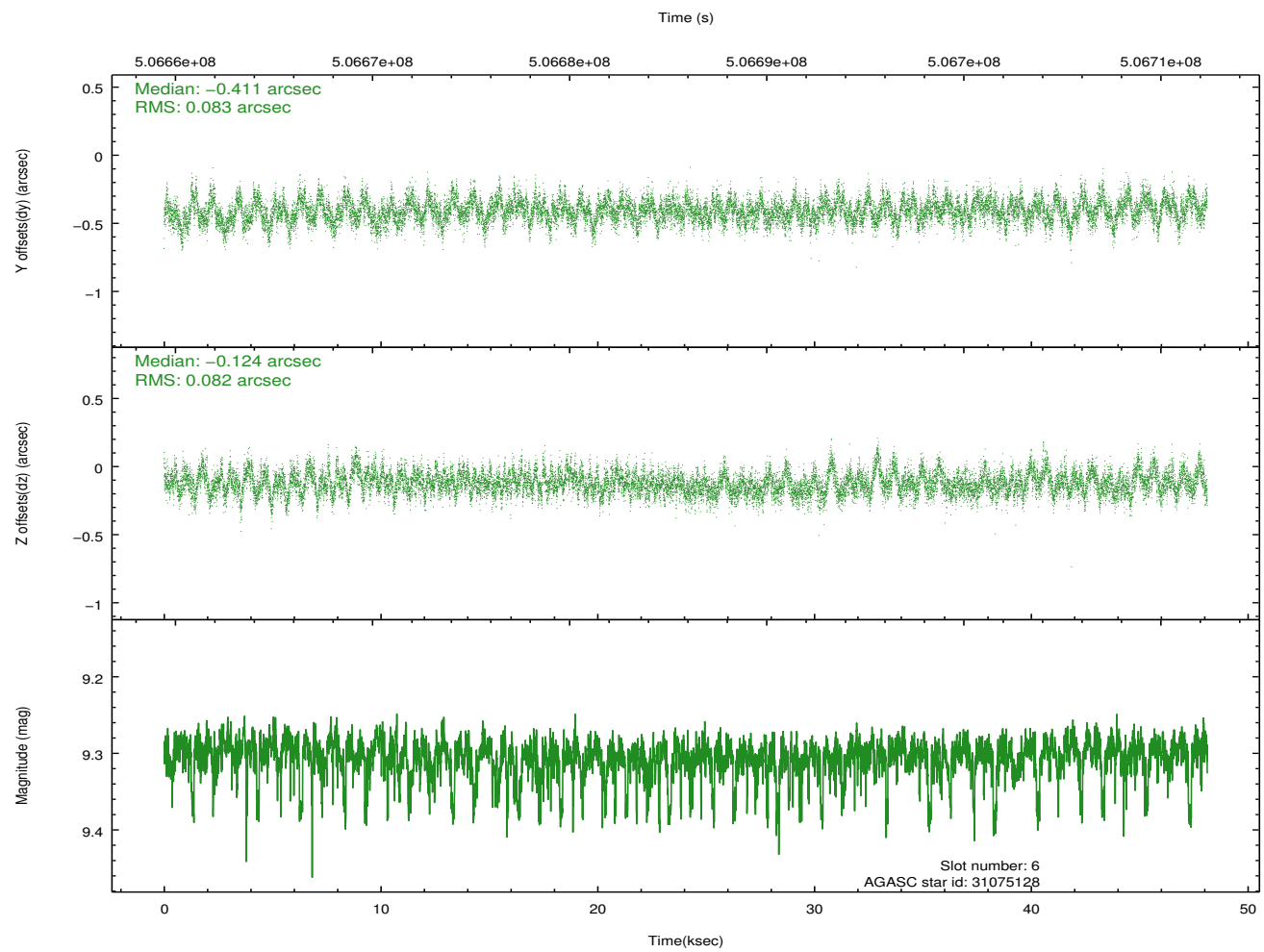
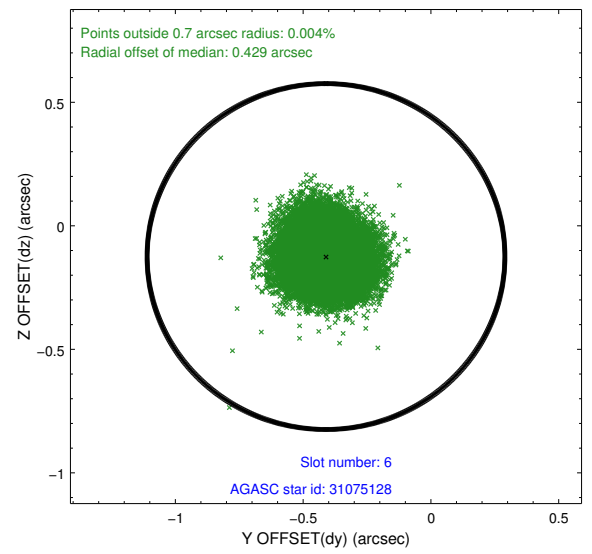
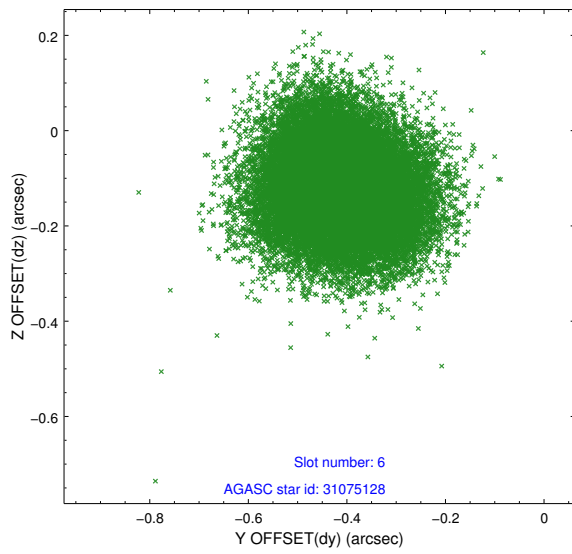
2.4.2 Slot 4



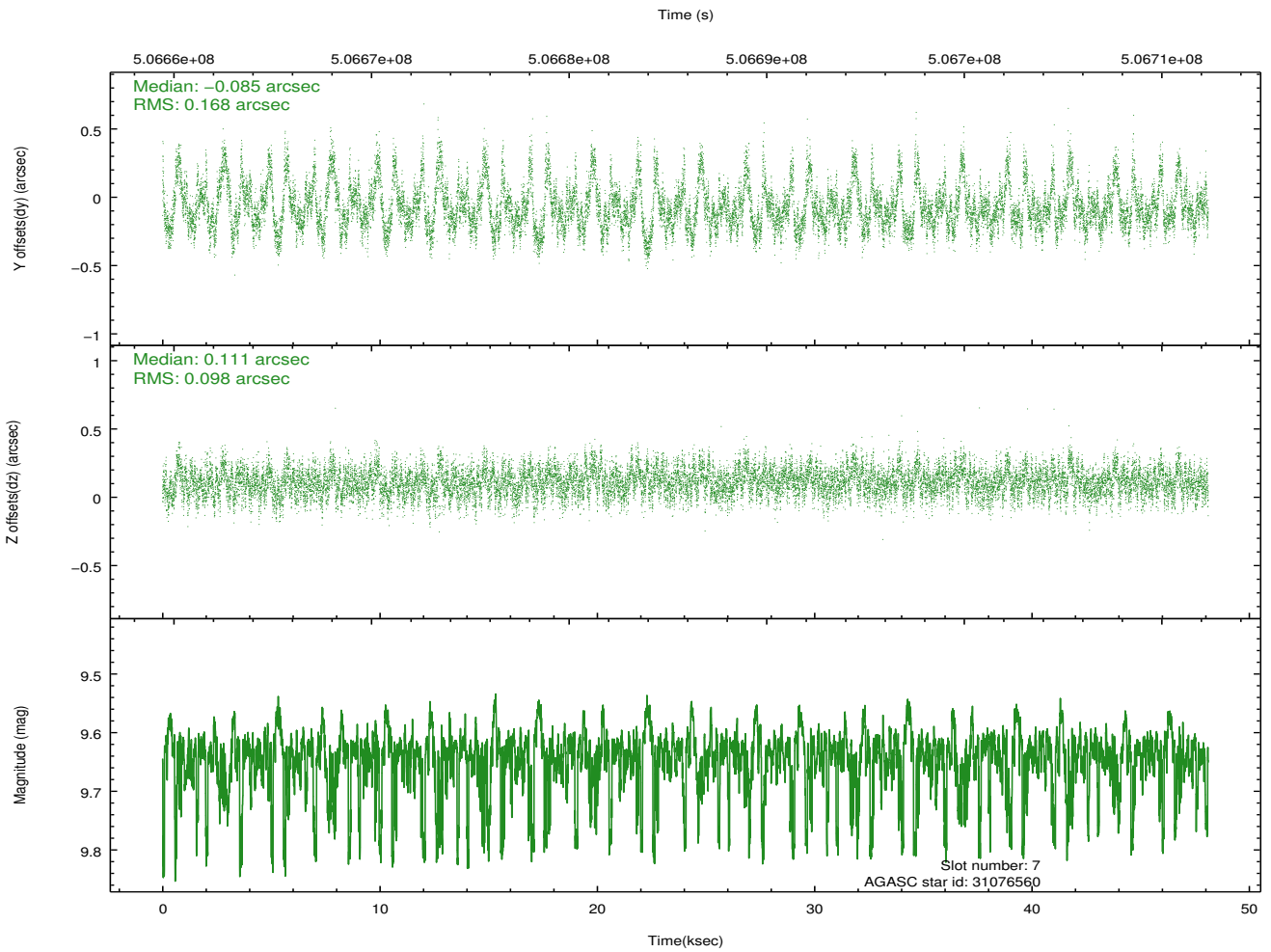
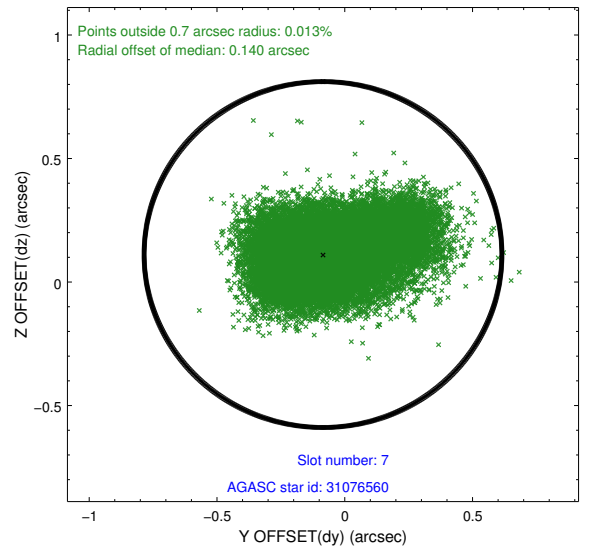
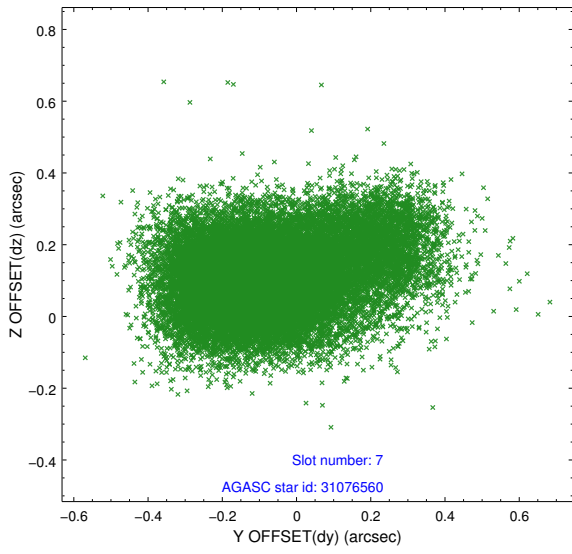
2.4.3 Slot 5



2.4.4 Slot 6

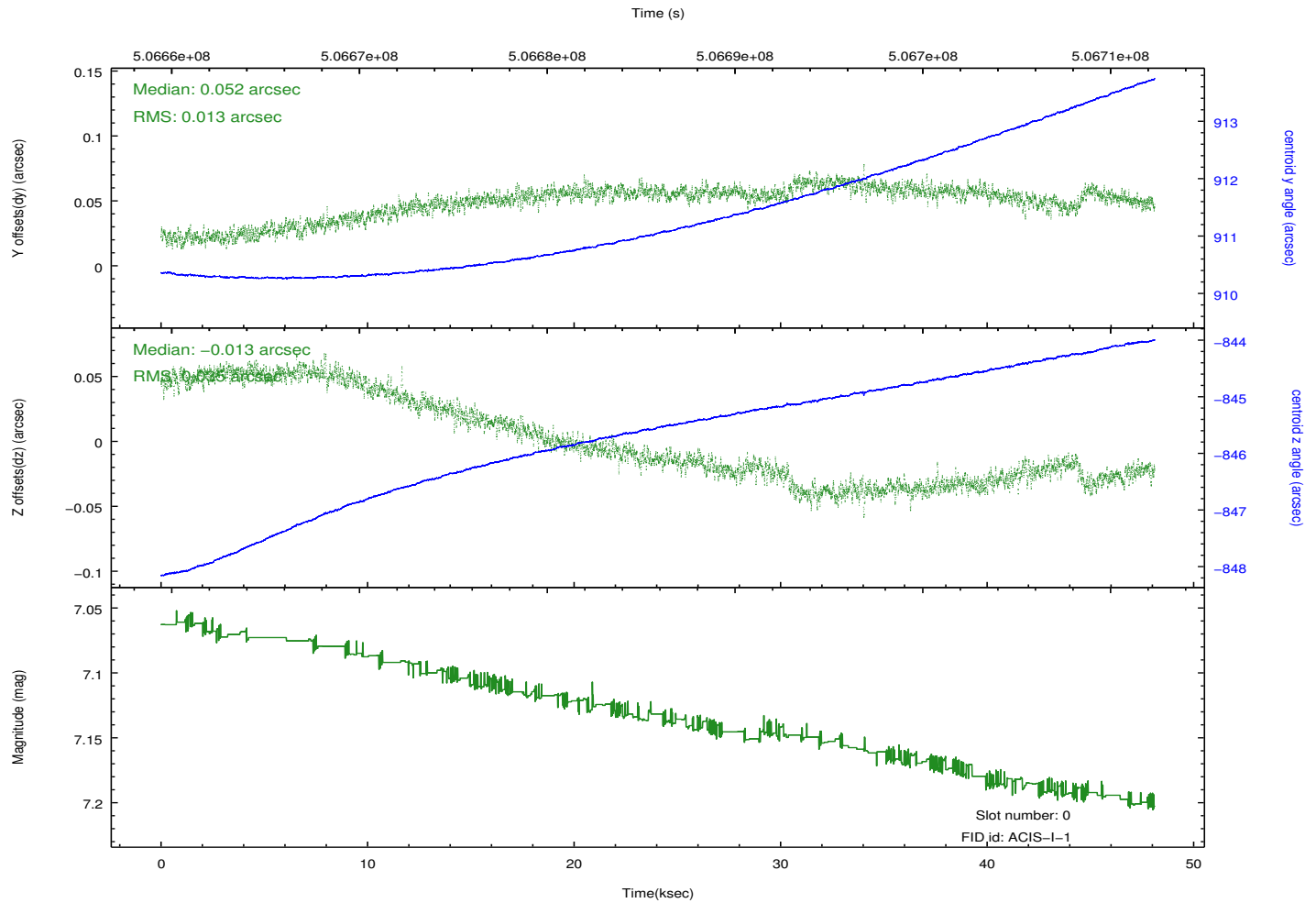
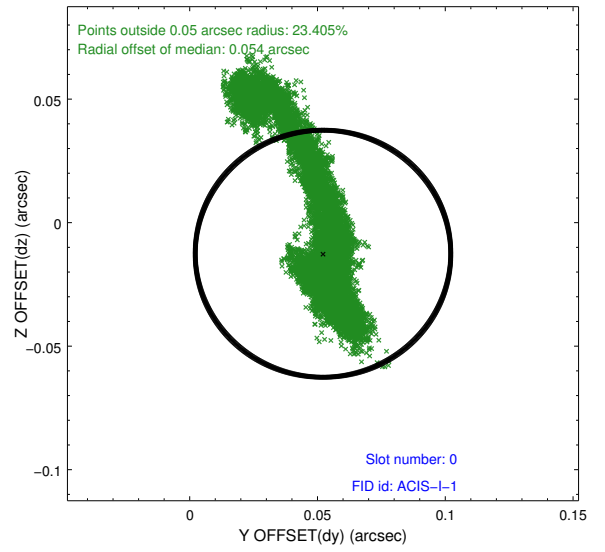
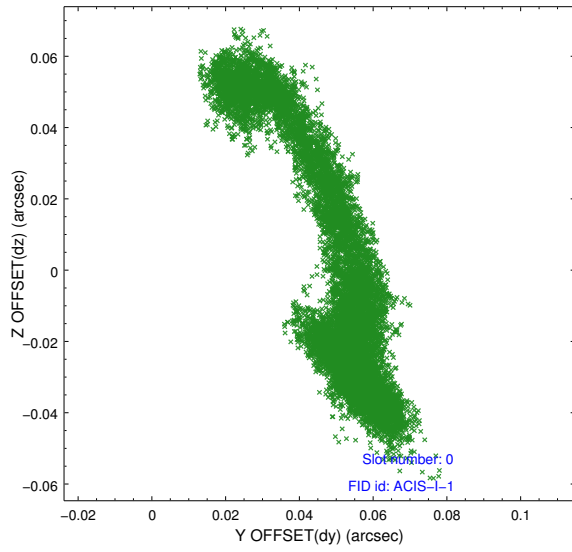


2.4.5 Slot 7

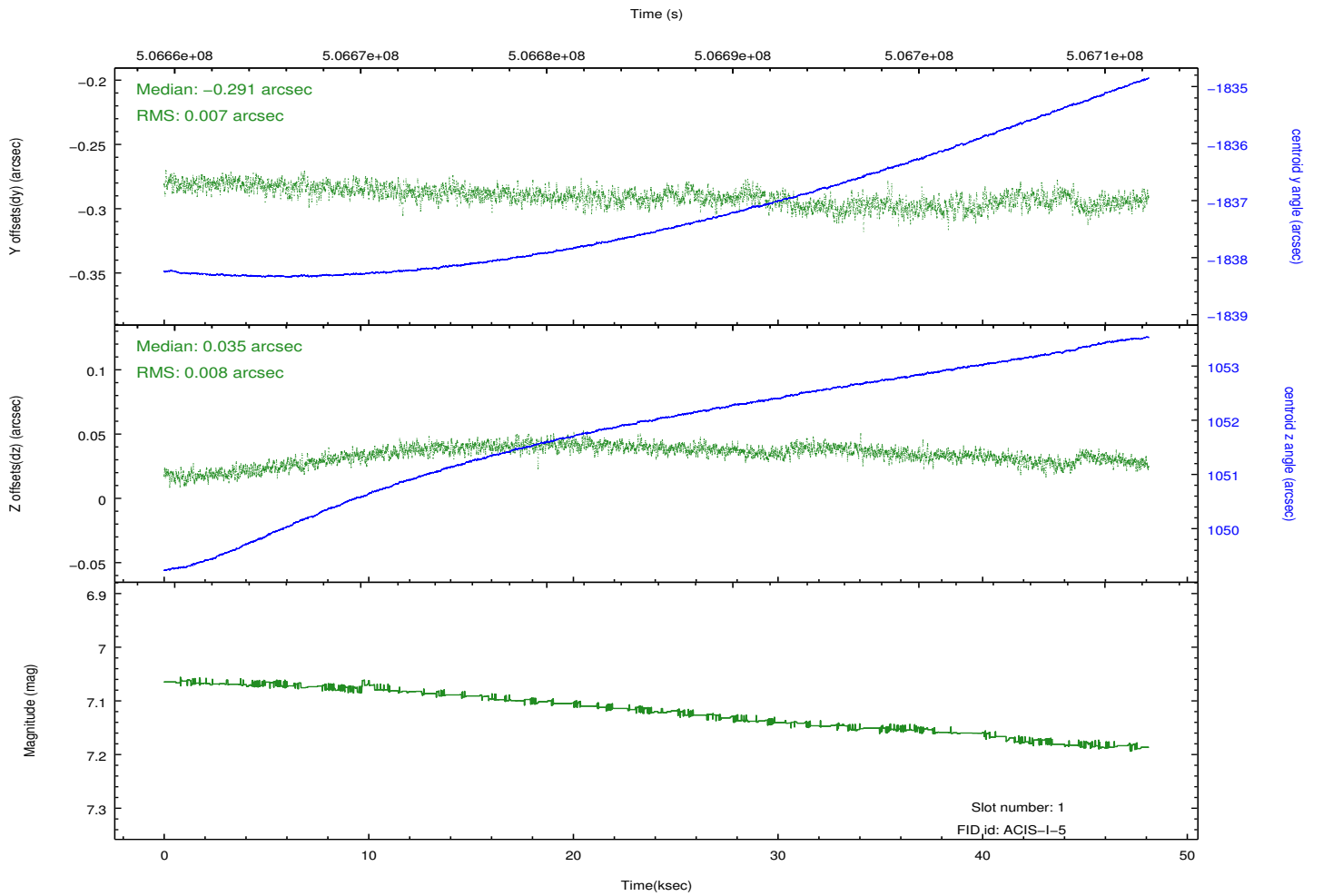
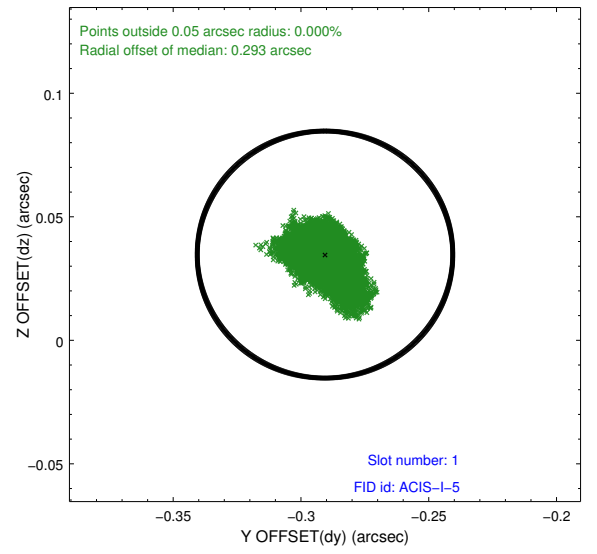
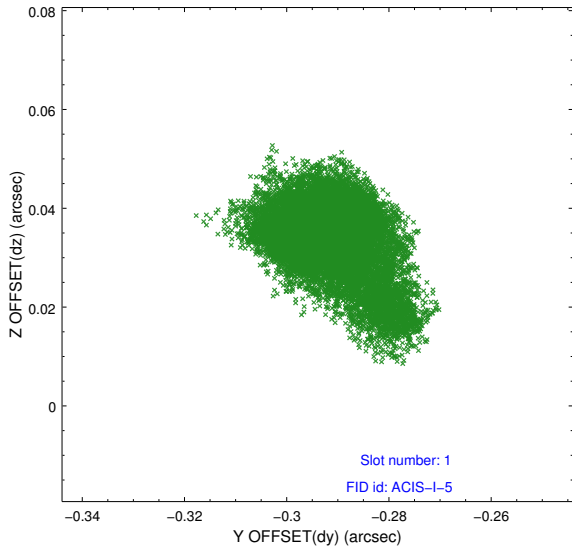


2.5 FID Slots

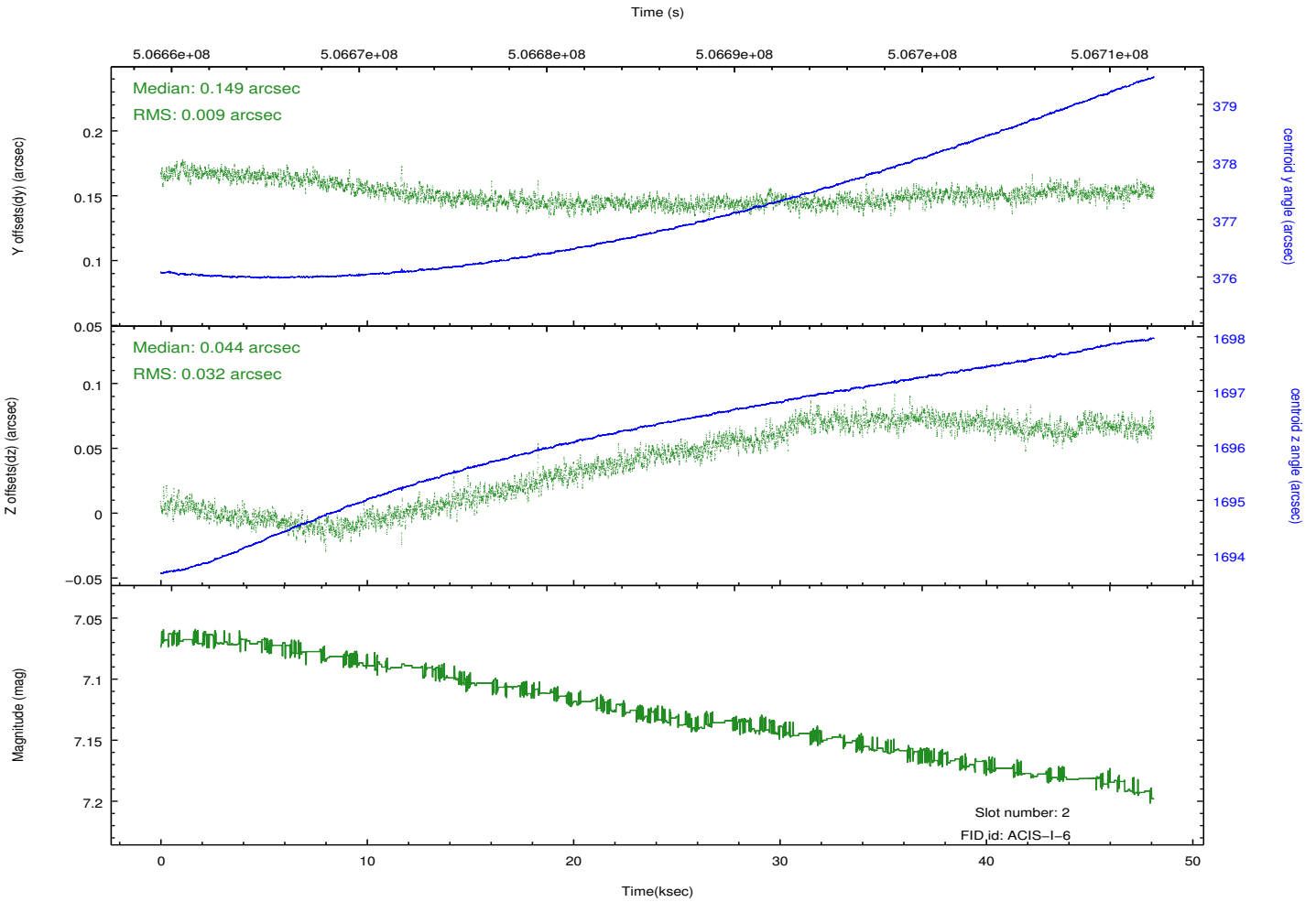
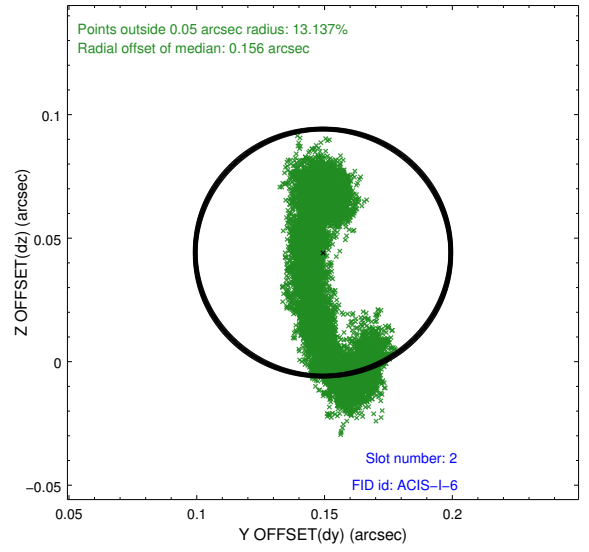
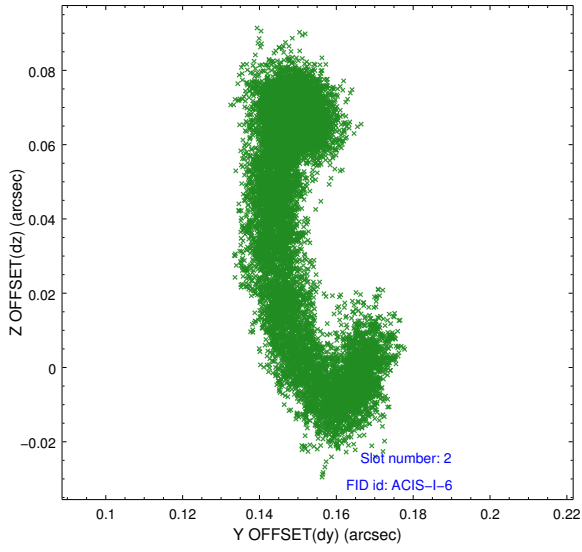
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.08973722446

A.2 Comments

Roll preference met.

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.