

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16562 - L2 Version 2
Chandra X-Ray Center

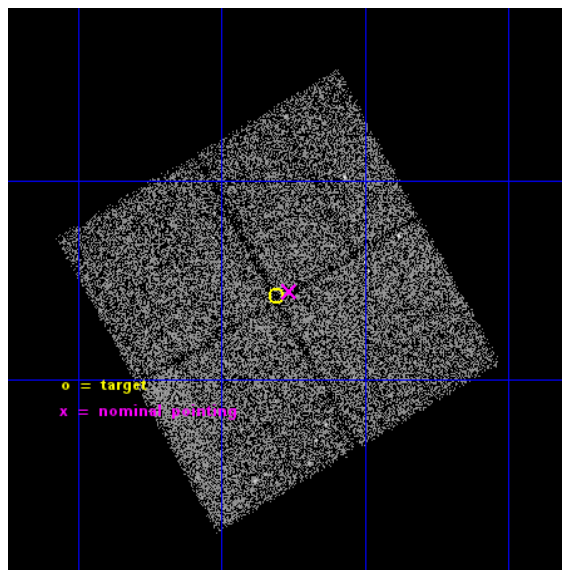
L2 Processing Date : Dec 9 2014

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1 Front

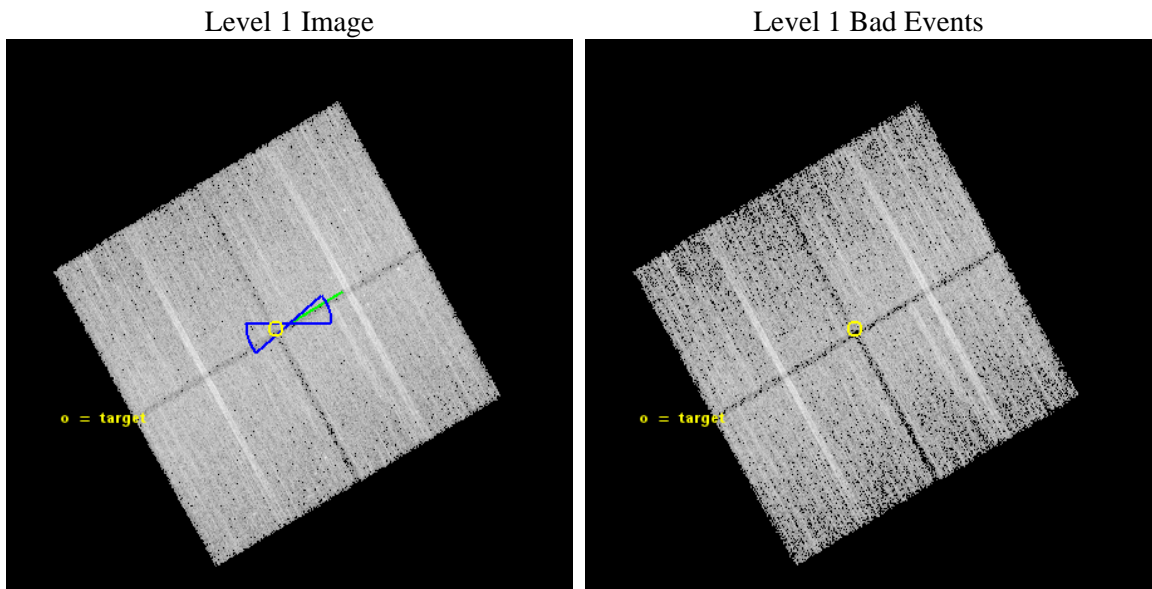
seq_num	901090	Sequence number
obs_id	16562	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.70184	Observer's specified target RA [deg]
dec_targ	1.736936	Observer's specified target Dec [deg]
ra_nom	150.69092135889	Nominal RA [deg]
dec_nom	1.7405767012509	Nominal Dec [deg]
roll_nom	60.20903243853	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27090.014717102	Sum of GTIs [s]
livetime	26736.063731444	Livetime [s]
ontime0	27093.11467731	Sum of GTIs [s]
ontime1	27090.014717102	Sum of GTIs [s]
ontime2	27093.196757317	Sum of GTIs [s]
ontime3	27090.096806943	Sum of GTIs [s]
l2events	51512	Number of level 2 events



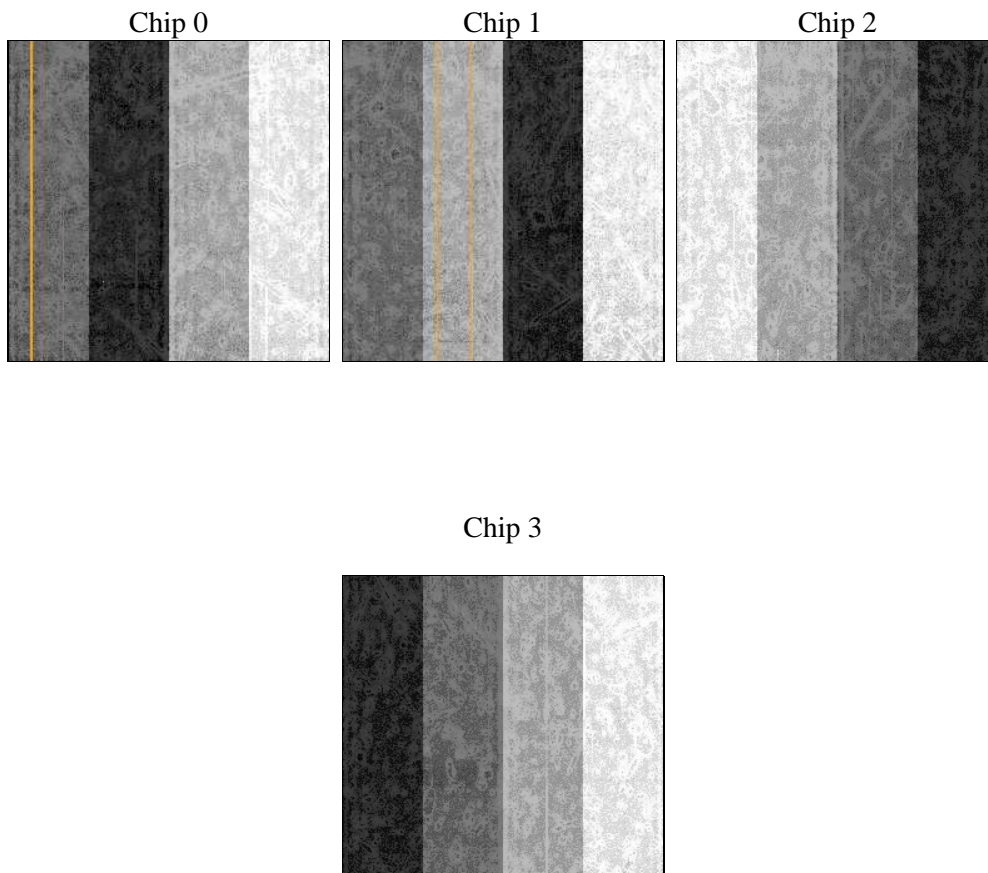
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	27090.014717102	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	27093.11467731	Sum of GTIs [s]
date	2014-12-10T02:43:11	Date and time of file creation	ontime1	27090.014717102	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	27093.196757317	Sum of GTIs [s]
			ontime3	27090.096806943	Sum of GTIs [s]
			l1events	483833	Number of level 1 events

2.1.4 Events

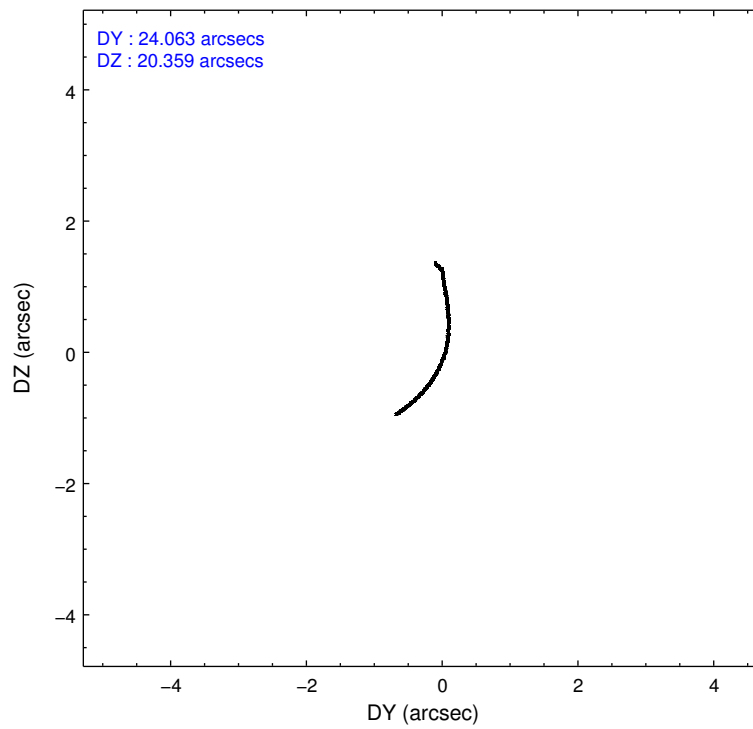
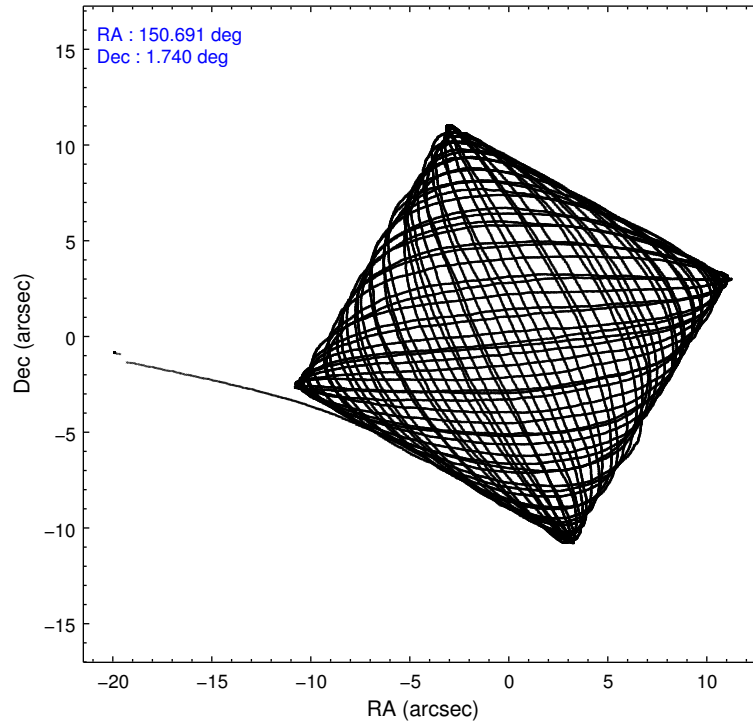
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	113862	119099	129787	121085
rejected events	99014	102194	114794	106587
rejected %	86%	85%	88%	88%

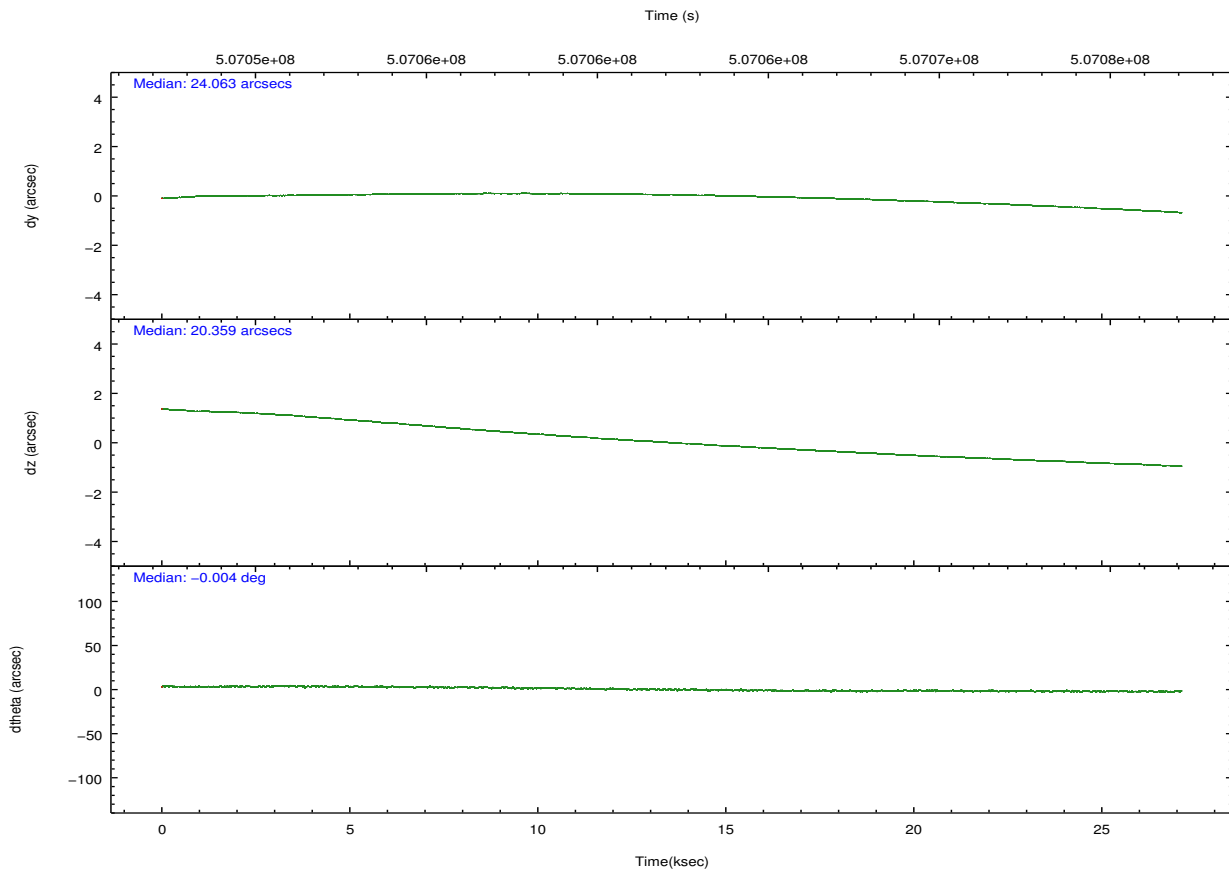
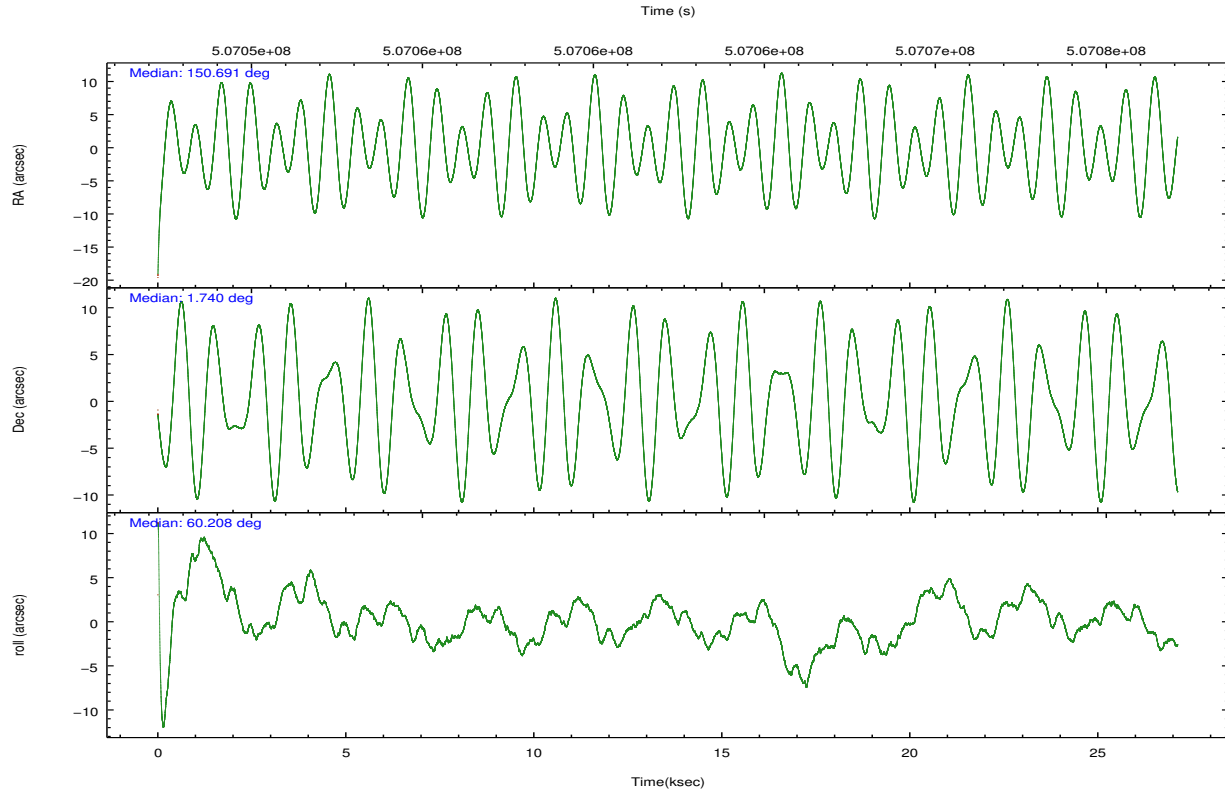
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4898	5850	5280	5019
	4%	4%	4%	4%
grade 1 events	60	70	70	63
	0%	0%	0%	0%
grade 2 events	3747	4068	3742	3242
	3%	3%	2%	2%
grade 3 events	1642	1627	1509	1526
	1%	1%	1%	1%
grade 4 events	1467	1644	1479	1566
	1%	1%	1%	1%
grade 5 events	6139	6522	5696	6955
	5%	5%	4%	5%
grade 6 events	3095	3716	2985	3147
	2%	3%	2%	2%
grade 7 events	92814	95602	109026	99567
	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	150.691145	150.6909213588887	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.713079	1.740576701250855	Alternating exposures requested	N	N
[deg] Pointing Roll	60.000332	60.20903243853043	[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)	507048733.184000	507047522.77337			
Observation start date	2014-01-25T14:51:06	2014-01-25T14:32:02			
[s] Observation end time (MET)	507075733.184000	507076682.99997			
Observation end date	2014-01-25T22:21:06	2014-01-25T22:38:02			
Read mode	TIMED	TIMED			

2.3 Aspect



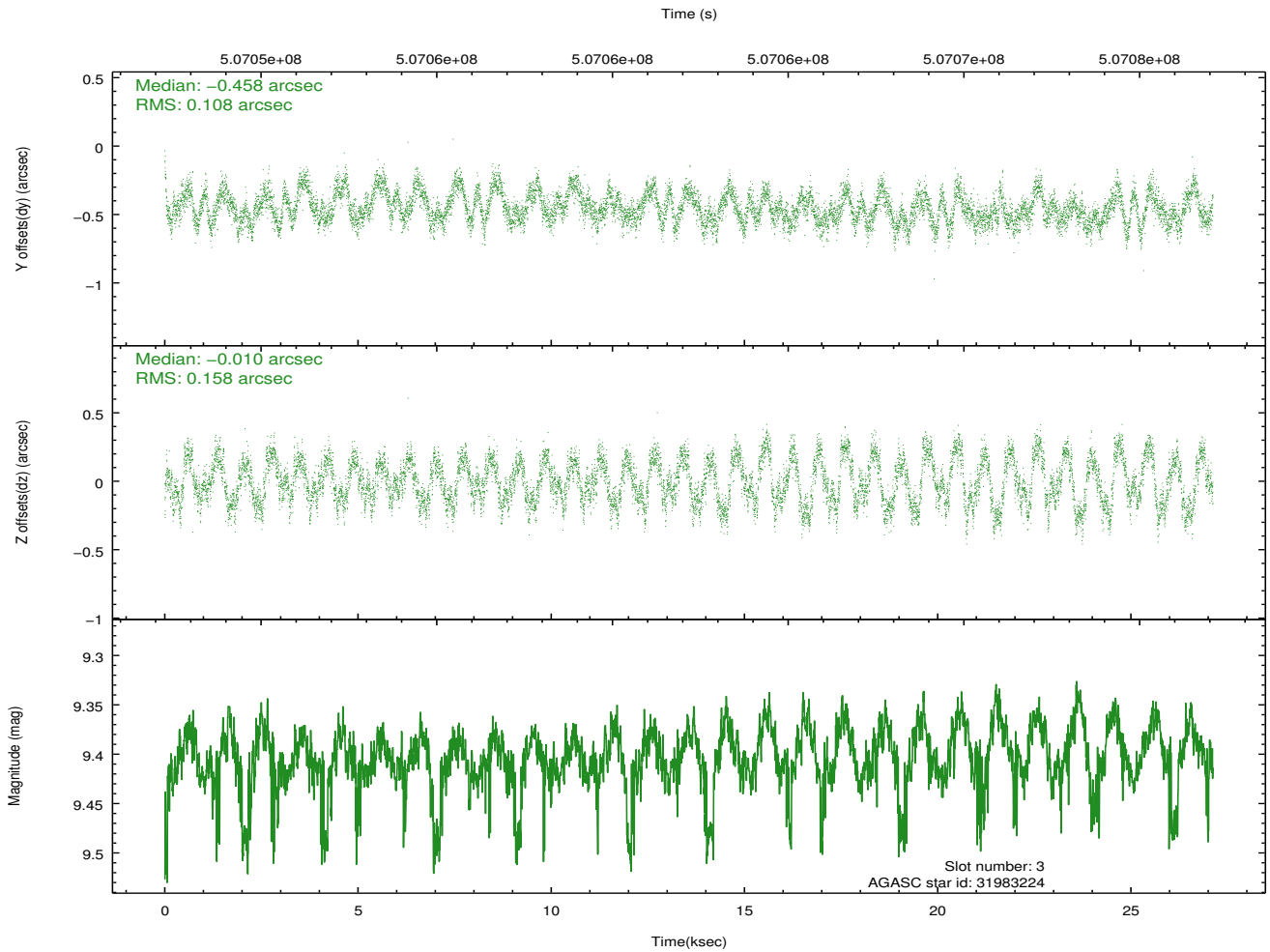
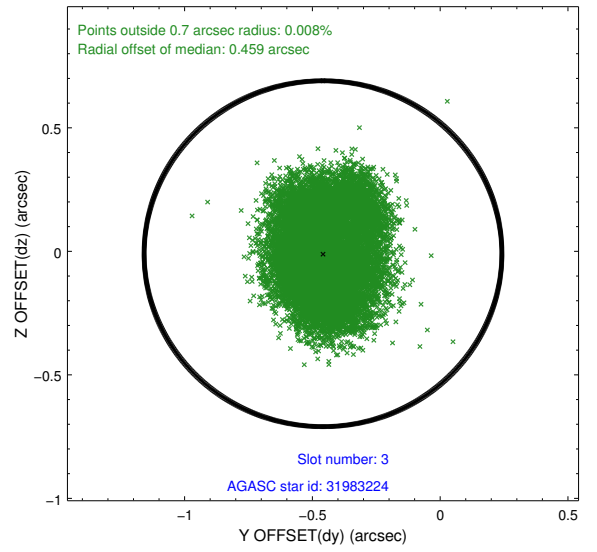
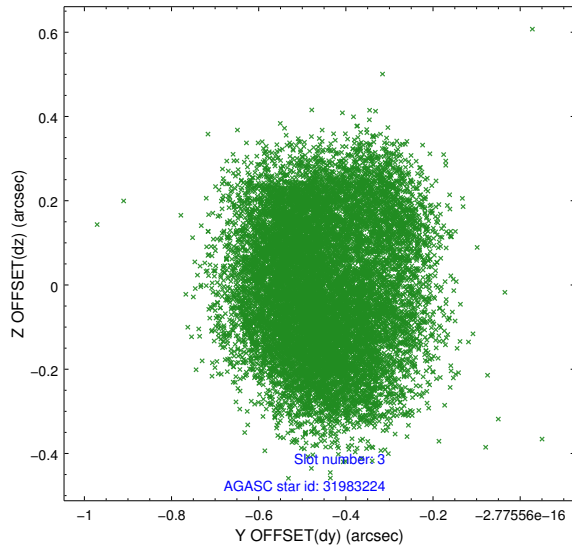


Slot Statistics

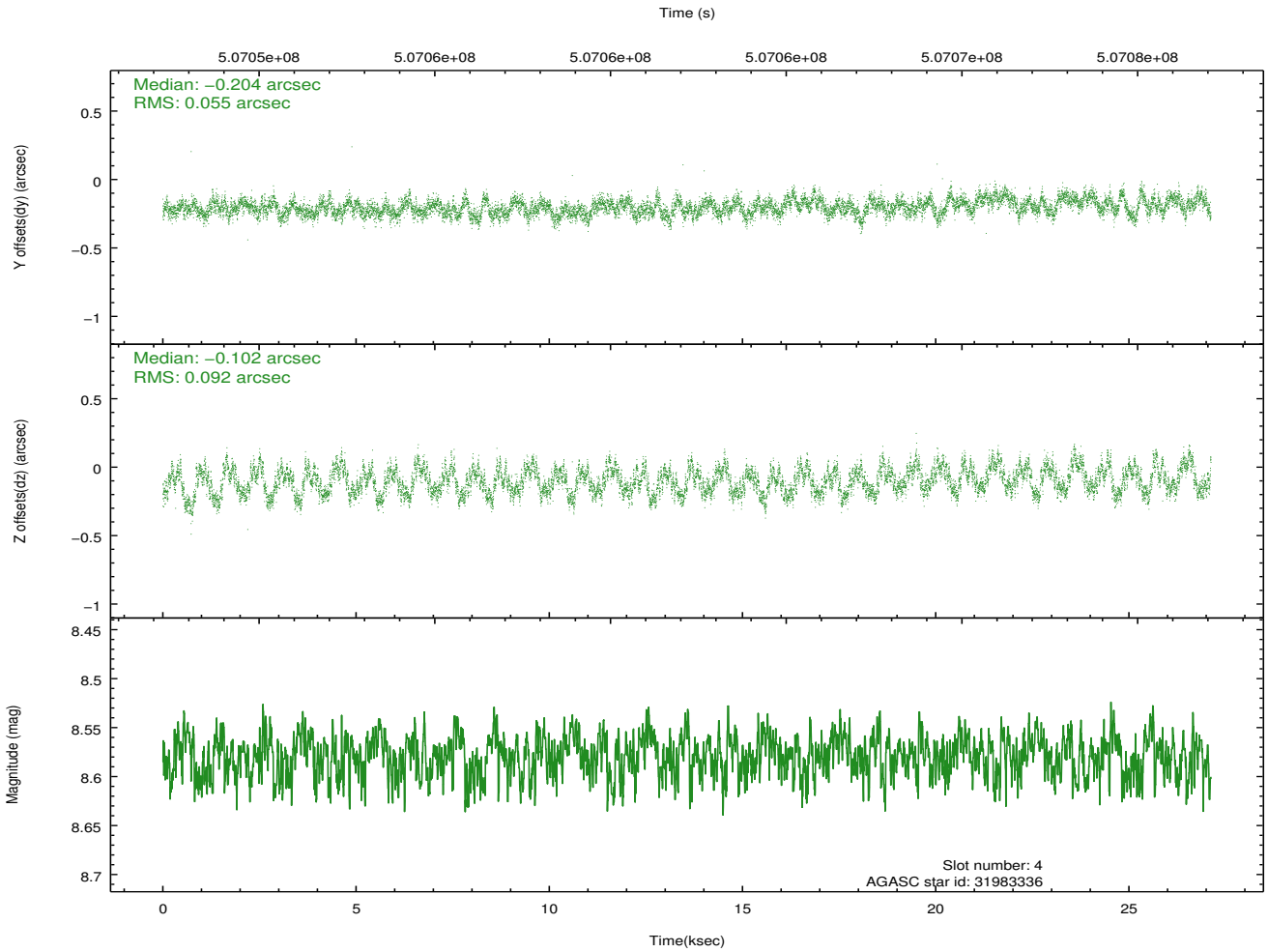
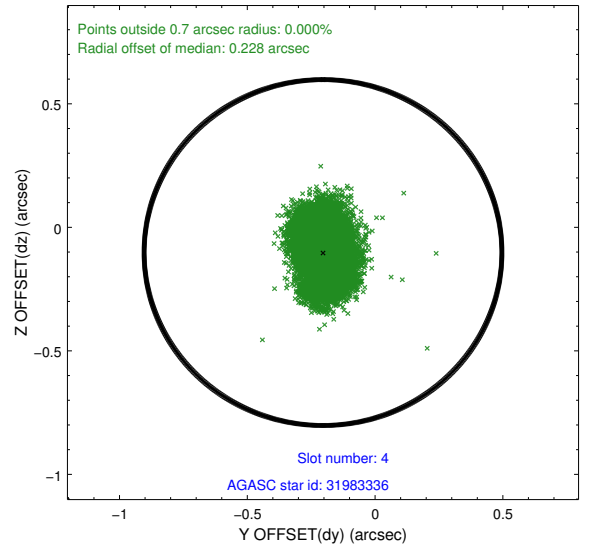
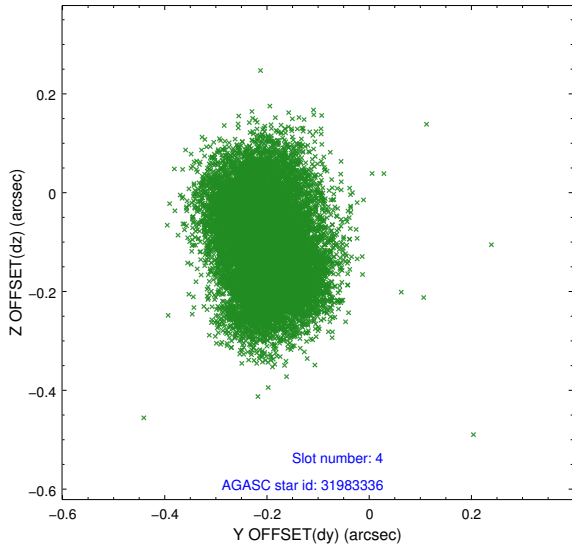
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	6616	0.053	-0.016	0.029	0.041	0.000000	0.000000	915.33	-844.19
1	FID		ACIS-I-5	7.11	6616	-0.291	0.037	0.014	0.031	0.000000	0.000000	-1833.12	1053.23
2	FID		ACIS-I-6	7.11	6616	0.144	0.045	0.020	0.027	0.000000	0.000000	380.78	1697.91
3	GUIDE	used	31983224	9.40	13213	-0.458	-0.010	0.211	0.310	150.543757	1.869948	224.03	741.81
4	GUIDE	used	31983336	8.58	13223	-0.204	-0.102	0.116	0.180	150.429924	2.291234	1333.14	1854.64
5	GUIDE	used	31986152	8.99	13157	-0.186	-0.477	0.115	0.178	150.840314	2.057585	1342.47	155.72
6	GUIDE	used	31991816	8.67	13229	0.564	0.416	0.153	0.278	150.917113	1.006843	-1793.99	-1974.85
7	GUIDE	used	31989744	8.93	13224	0.266	0.187	0.111	0.179	150.416962	1.131114	-2307.22	-192.58

2.4 Star Slots

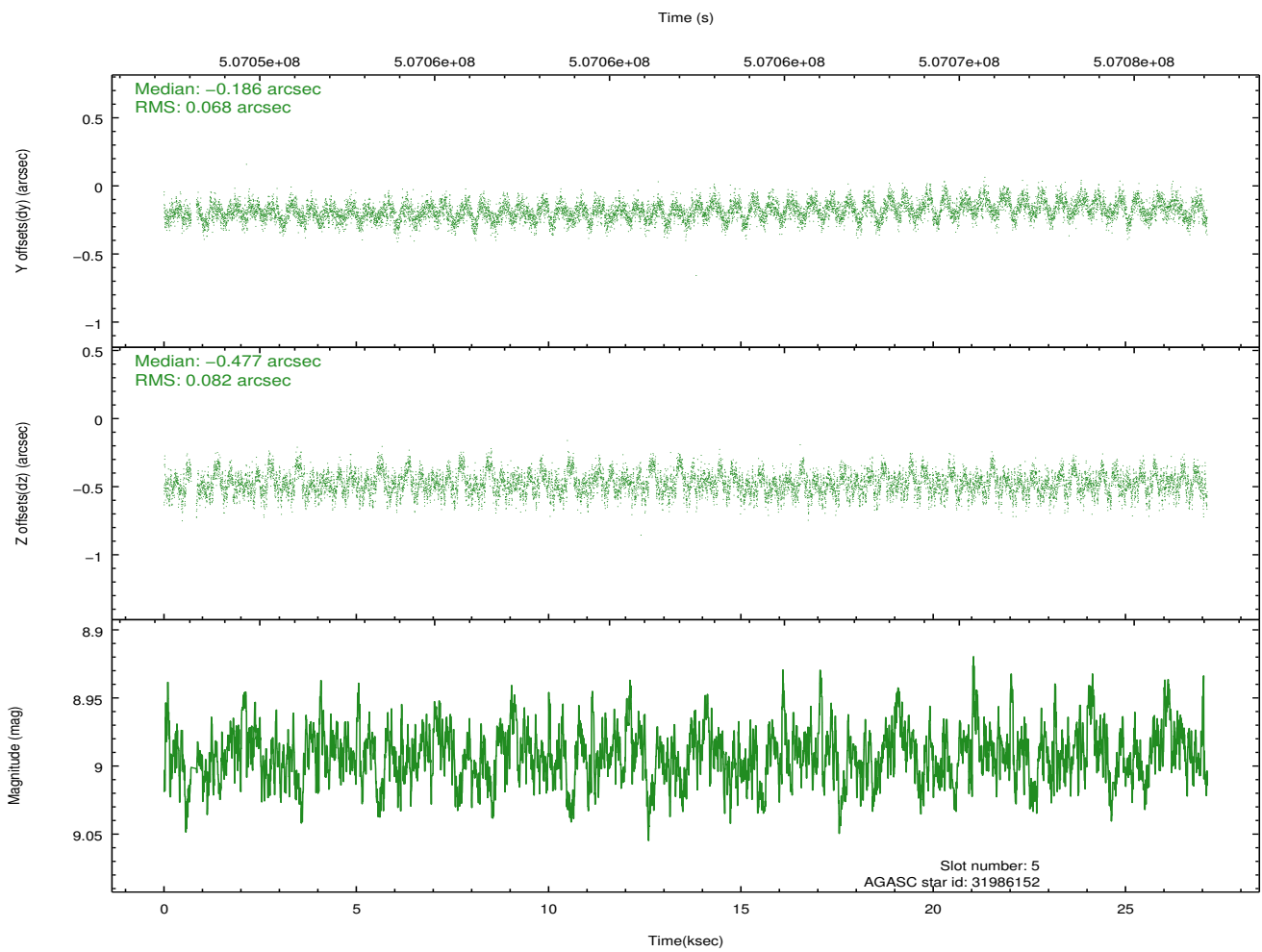
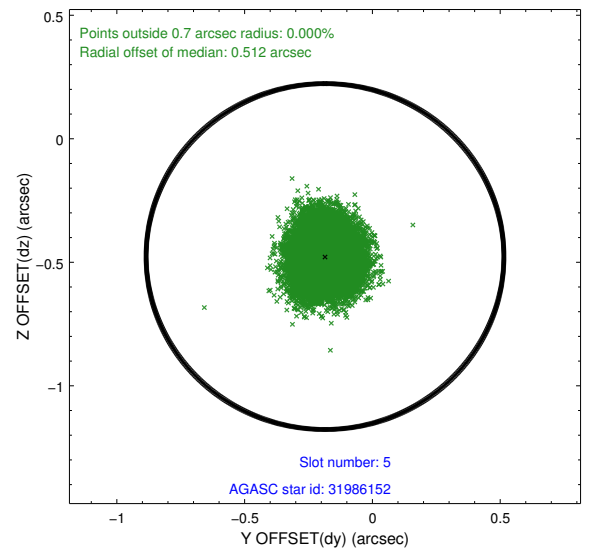
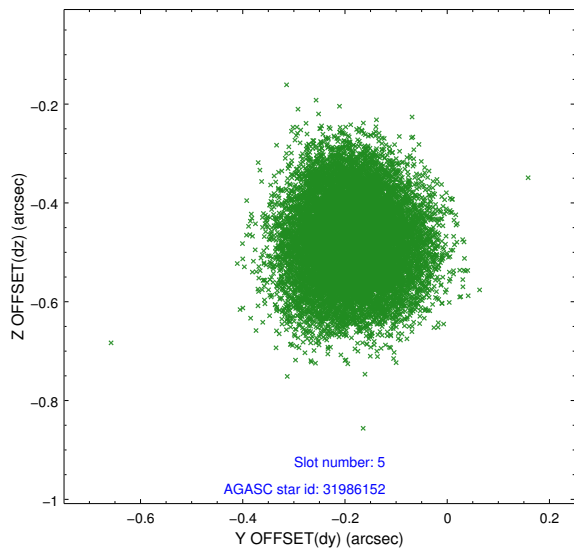
2.4.1 Slot 3



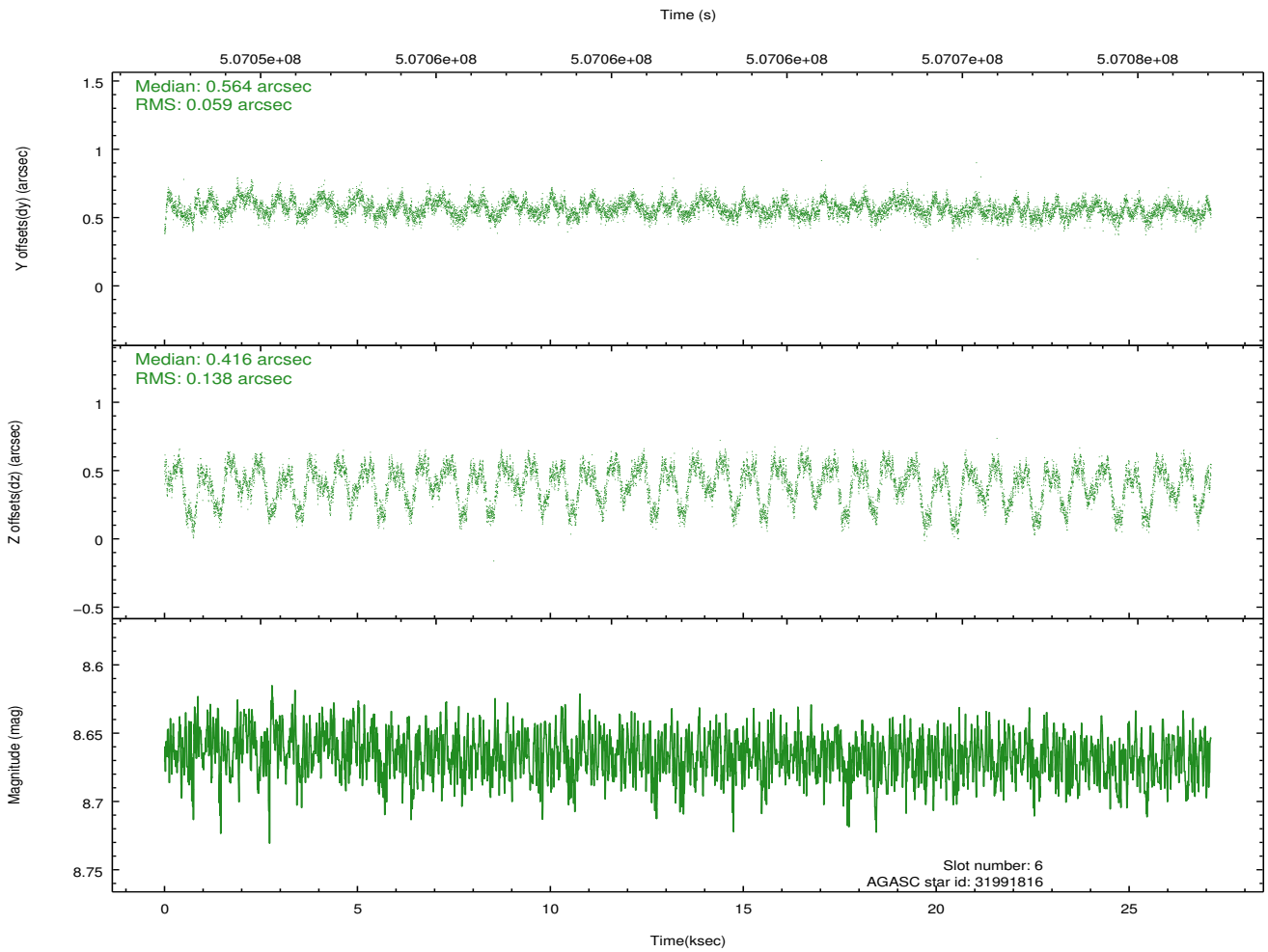
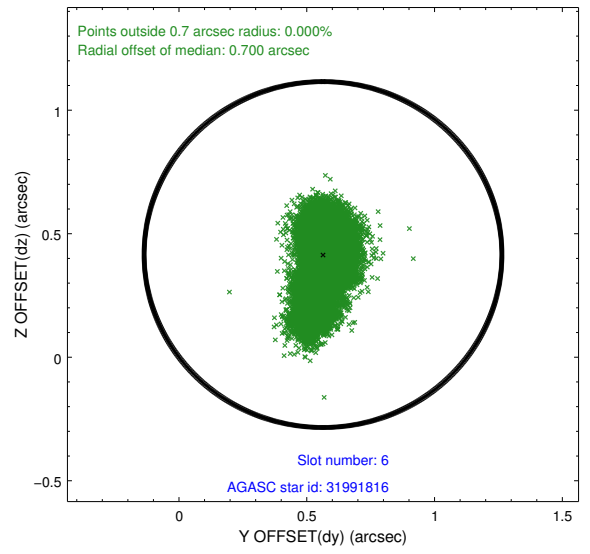
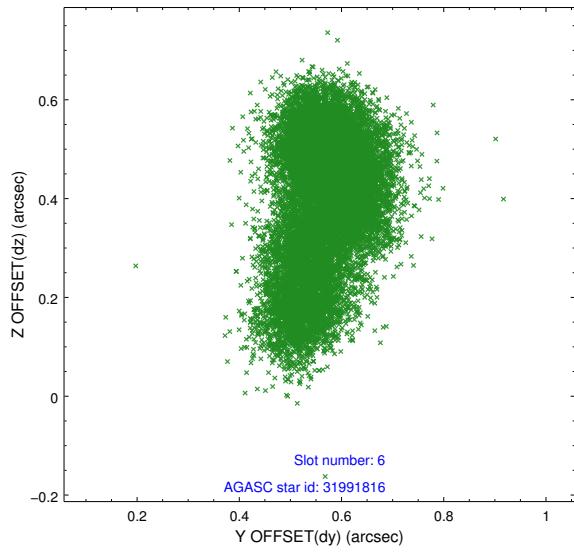
2.4.2 Slot 4



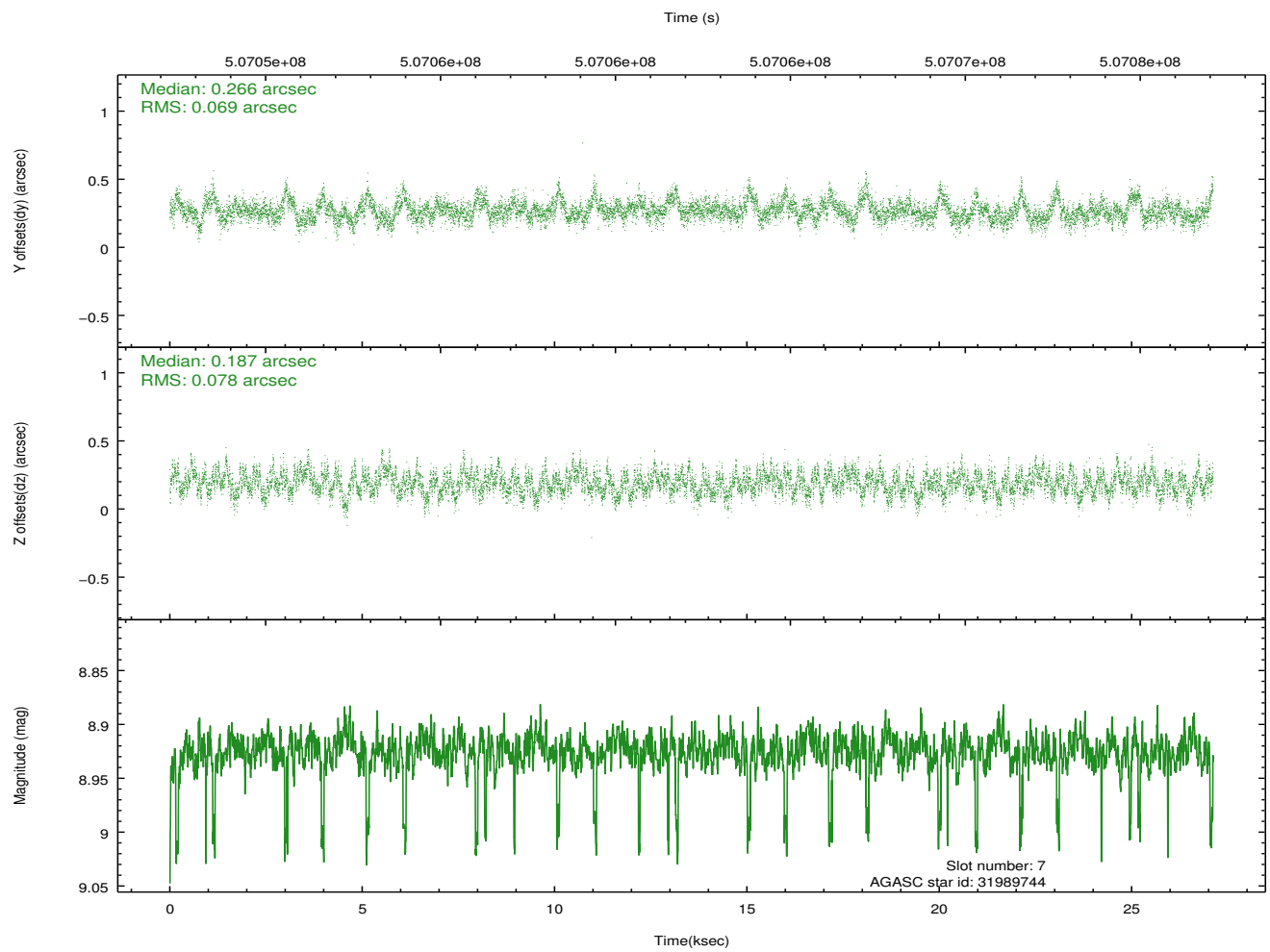
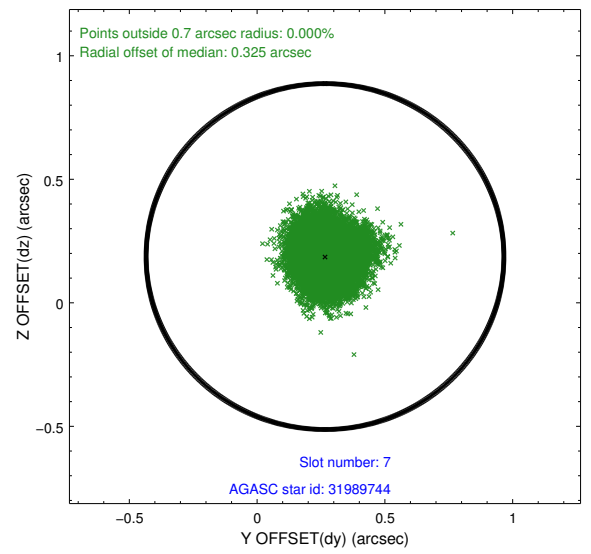
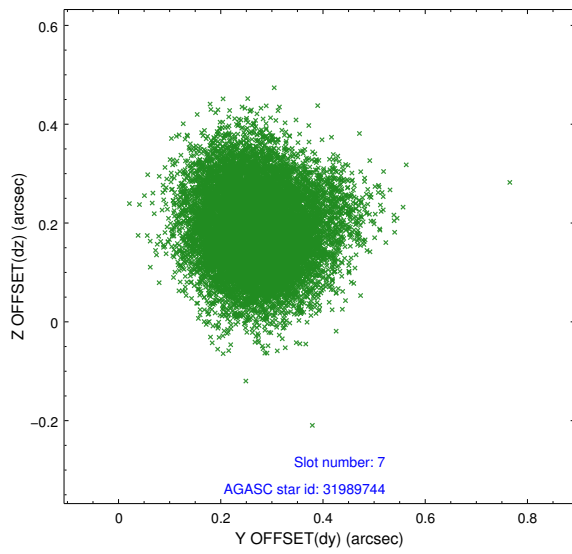
2.4.3 Slot 5



2.4.4 Slot 6

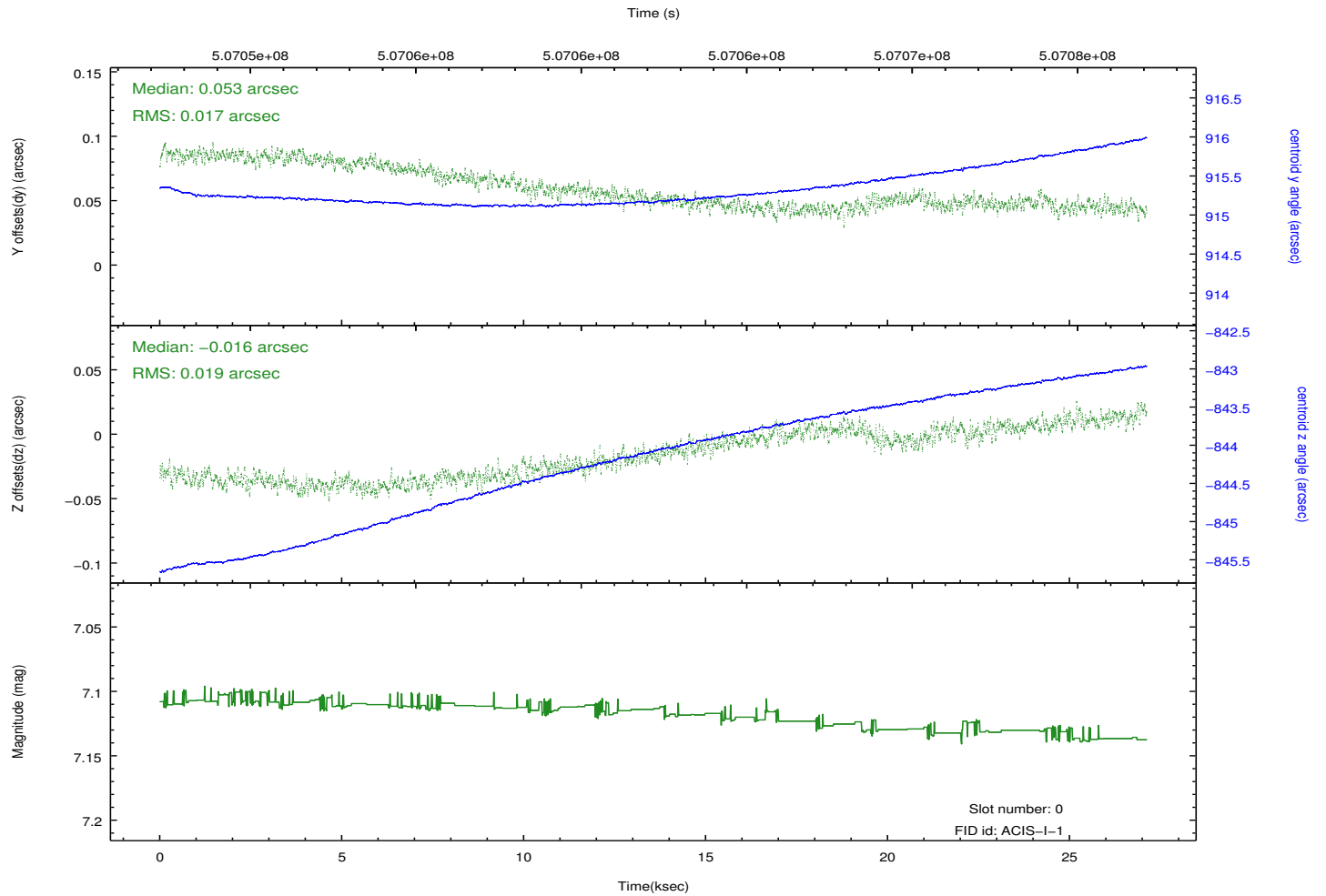
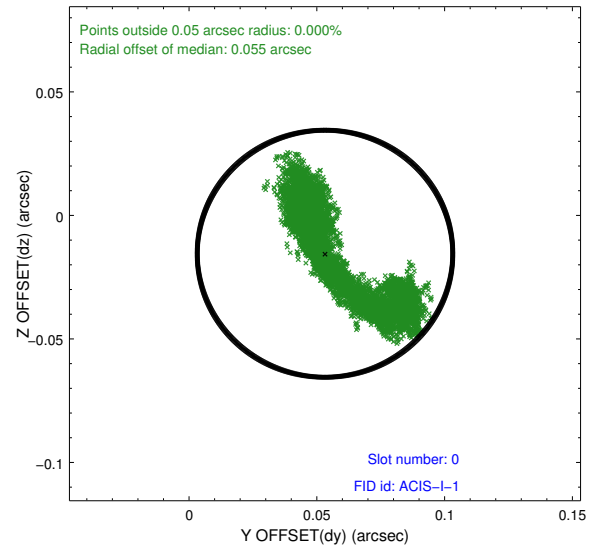
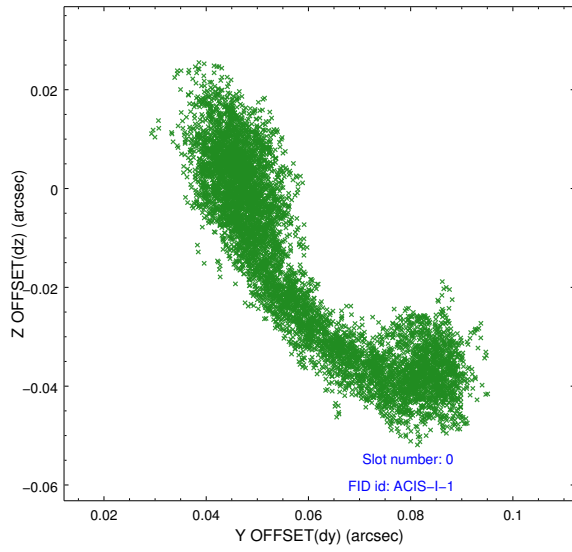


2.4.5 Slot 7

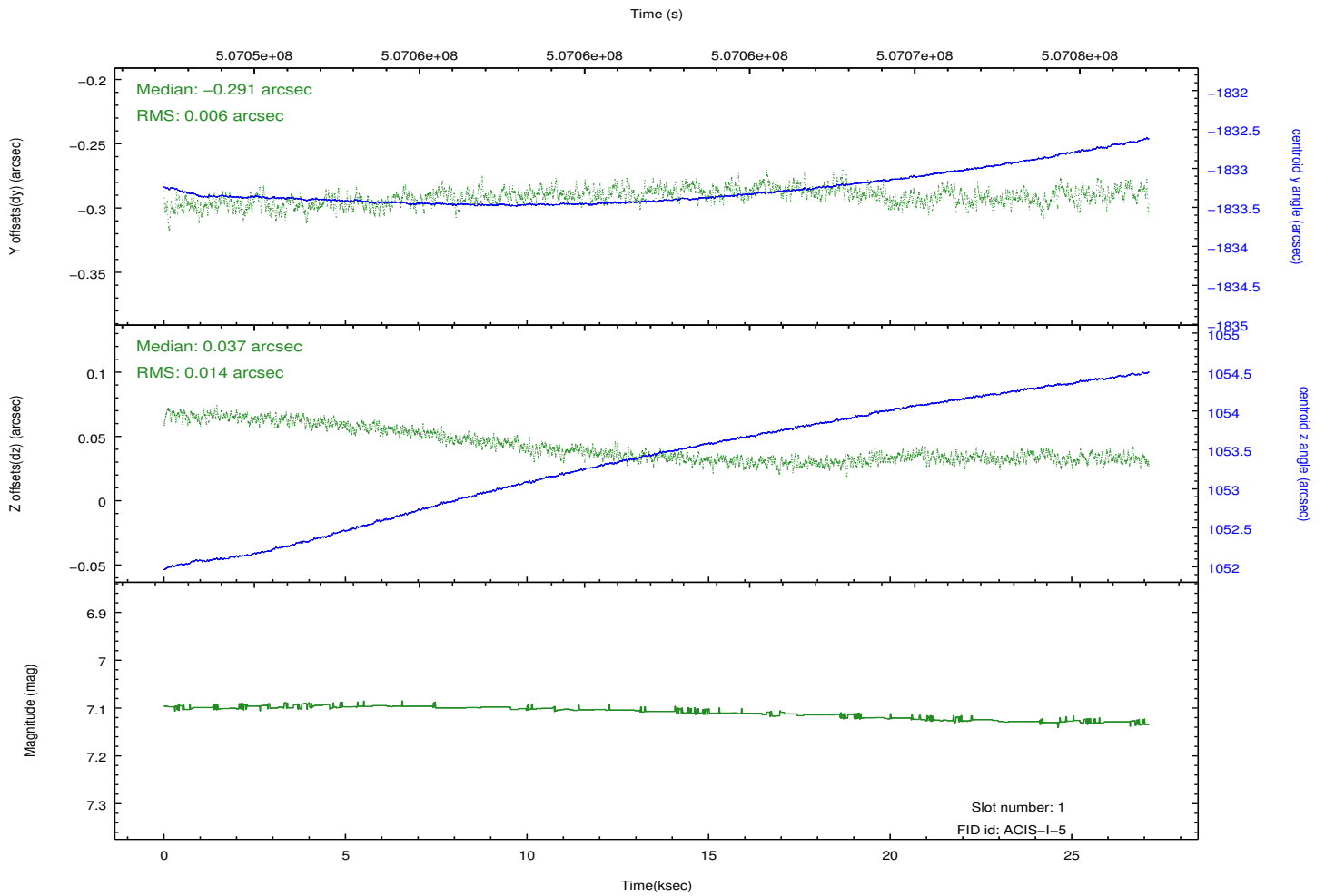
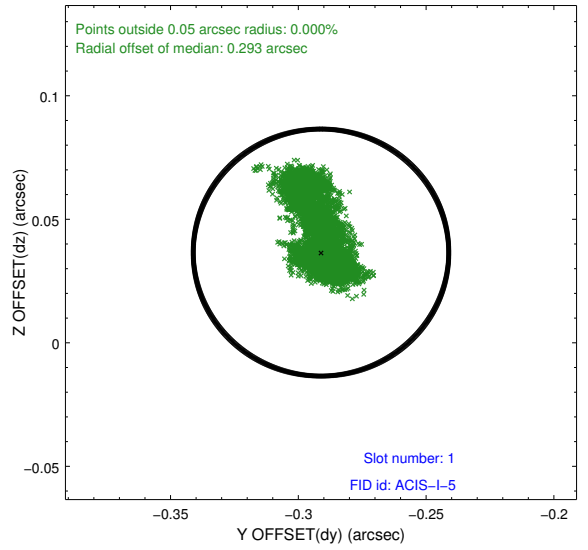
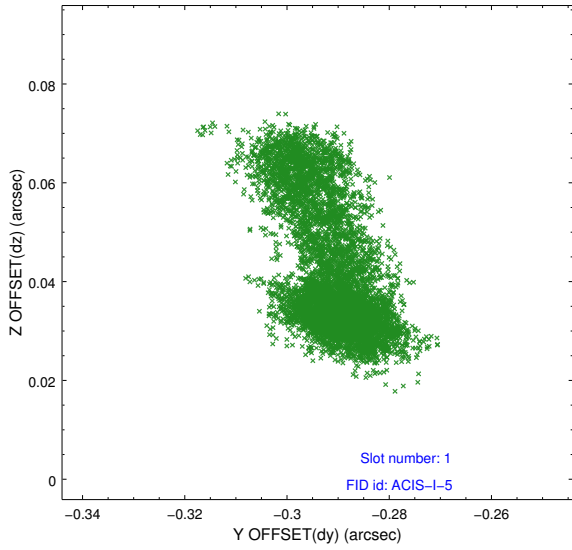


2.5 FID Slots

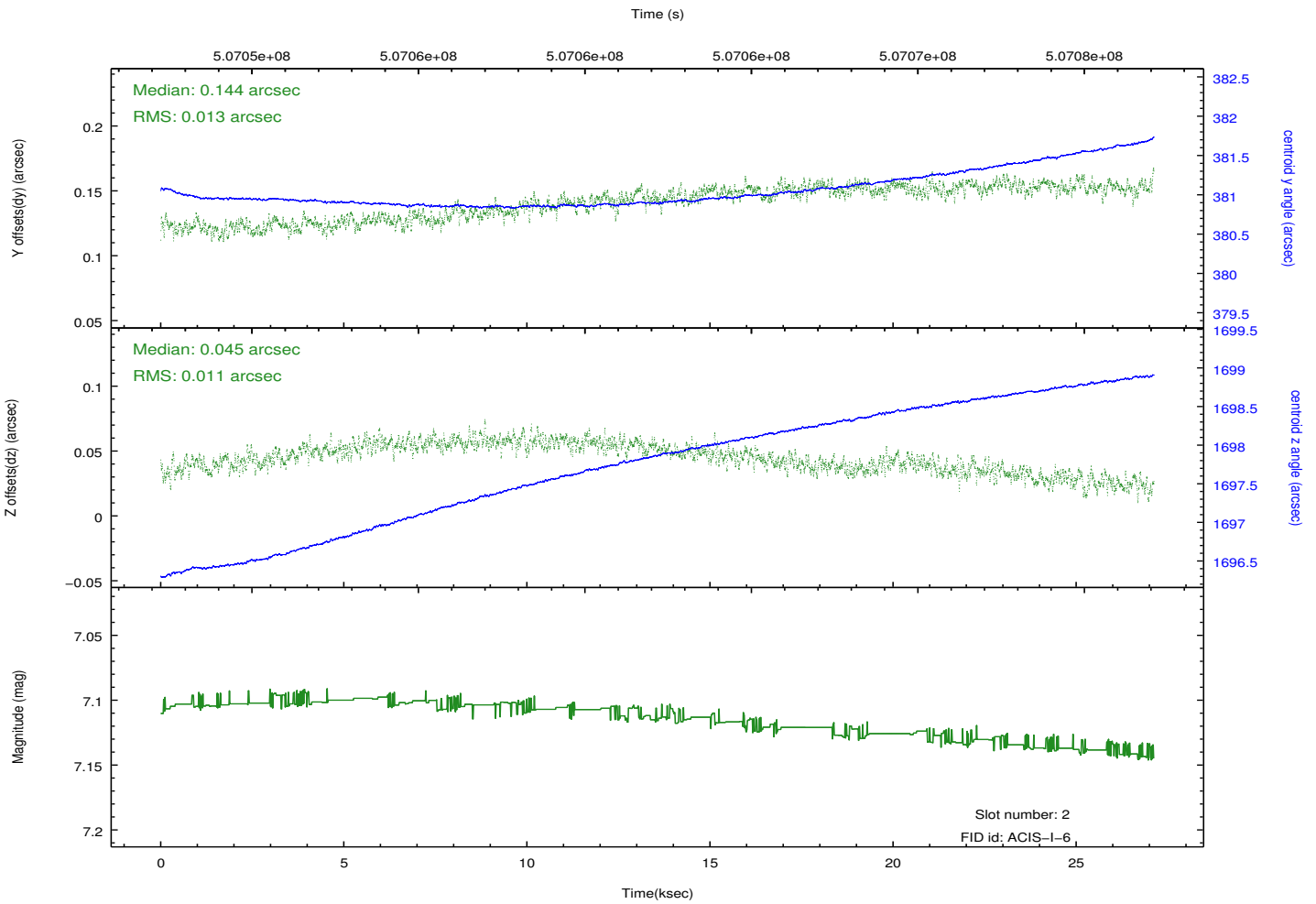
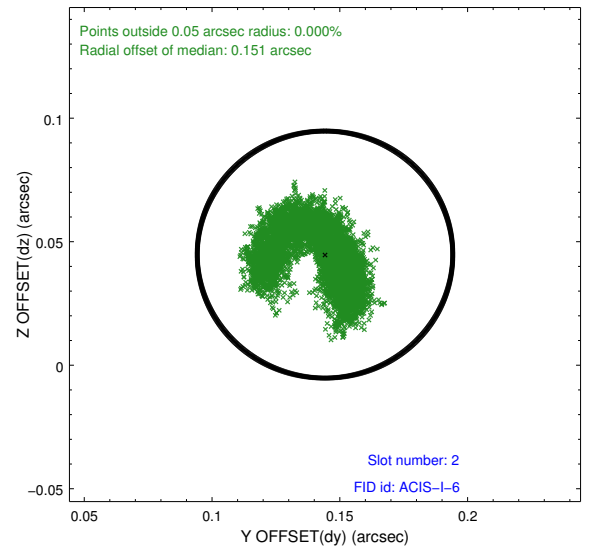
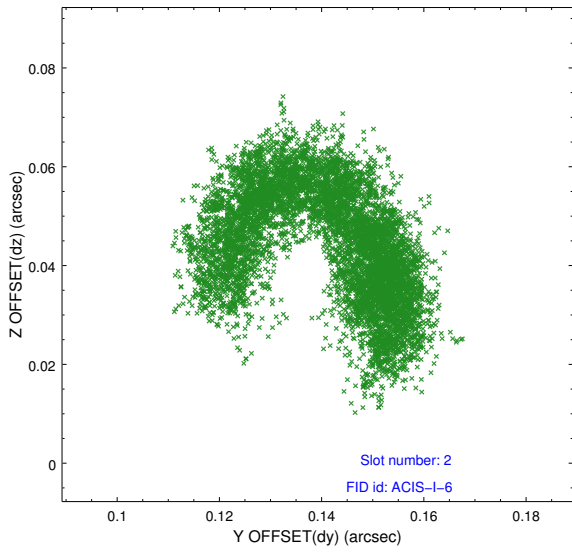
2.5.1 Slot 0



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)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.090014717102

A.2 Comments

Roll constraint met.

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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.