

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15233 - L2 Version 2
Chandra X-Ray Center

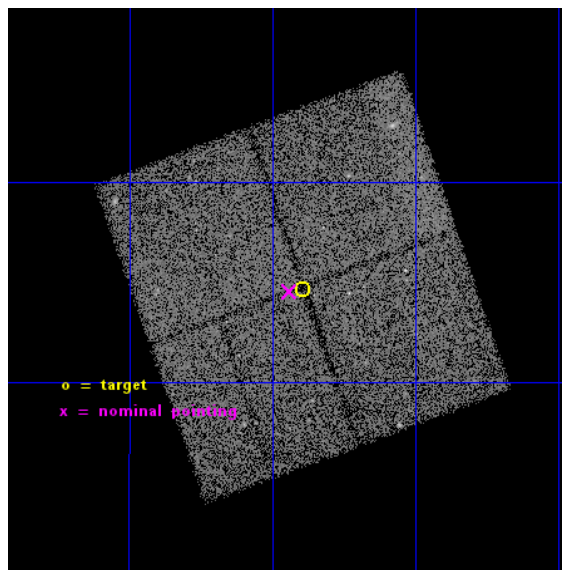
L2 Processing Date : Dec 3 2014

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1 Front

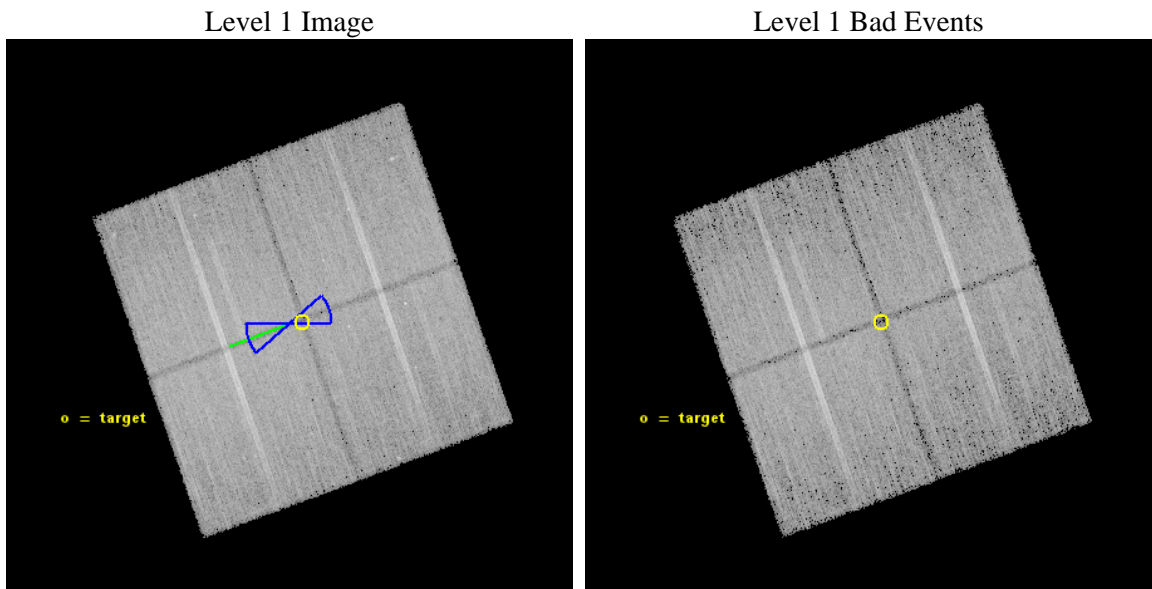
seq_num	901063	Sequence number
obs_id	15233	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.72354	Observer's specified target RA [deg]
dec_targ	2.577568	Observer's specified target Dec [deg]
ra_nom	150.73492465381	Nominal RA [deg]
dec_nom	2.5758753048134	Nominal Dec [deg]
roll_nom	250.20817941569	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47091.479679644	Sum of GTIs [s]
livetime	46476.194829387	Livetime [s]
ontime0	47091.438619852	Sum of GTIs [s]
ontime1	47091.479679644	Sum of GTIs [s]
ontime2	47088.379729509	Sum of GTIs [s]
ontime3	47094.70273006	Sum of GTIs [s]
l2events	89194	Number of level 2 events



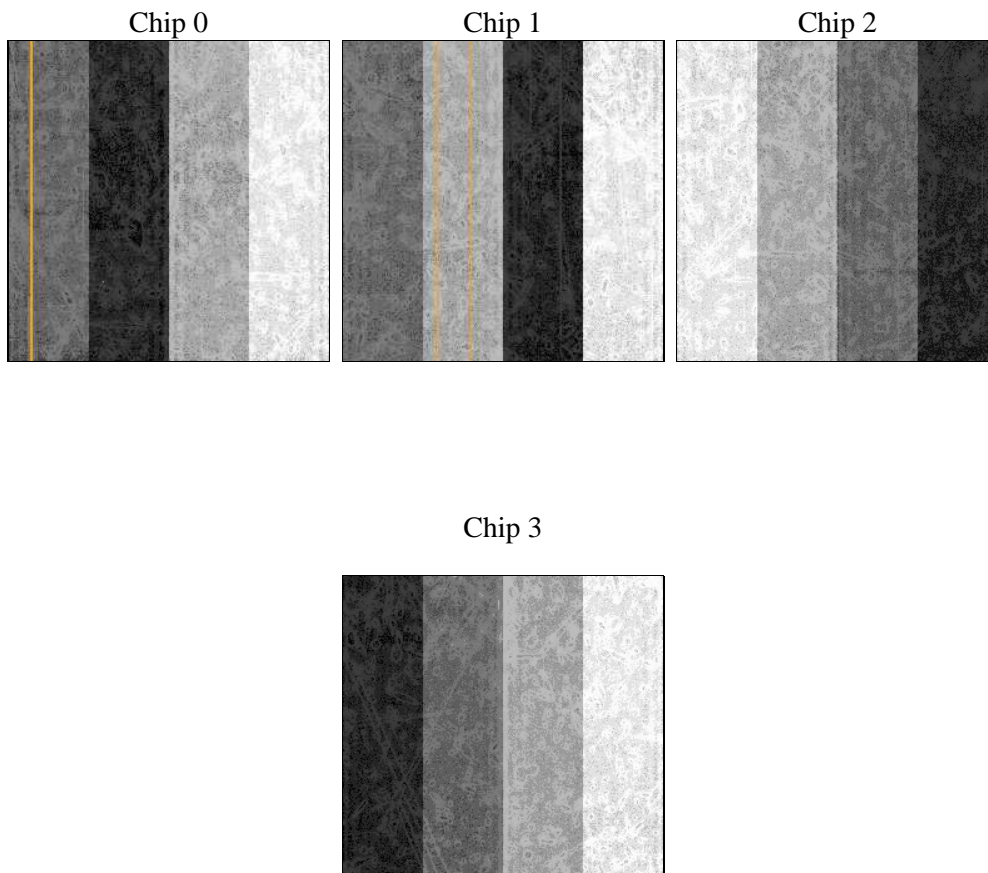
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	47091.479679644	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	47091.438619852	Sum of GTIs [s]
date	2014-12-03T09:10:27	Date and time of file creation	ontime1	47091.479679644	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	47088.379729509	Sum of GTIs [s]
			ontime3	47094.70273006	Sum of GTIs [s]
			l1events	803042	Number of level 1 events

2.1.4 Events

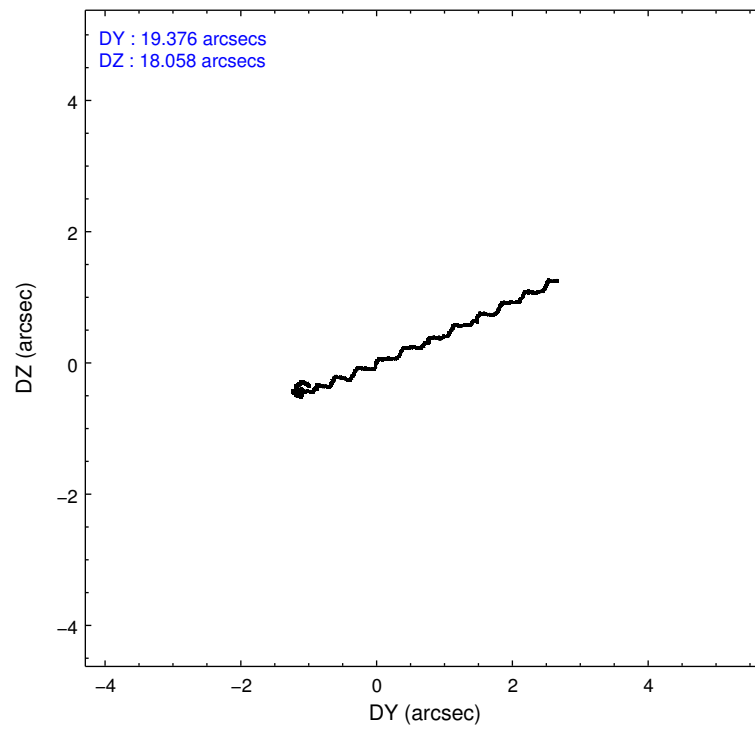
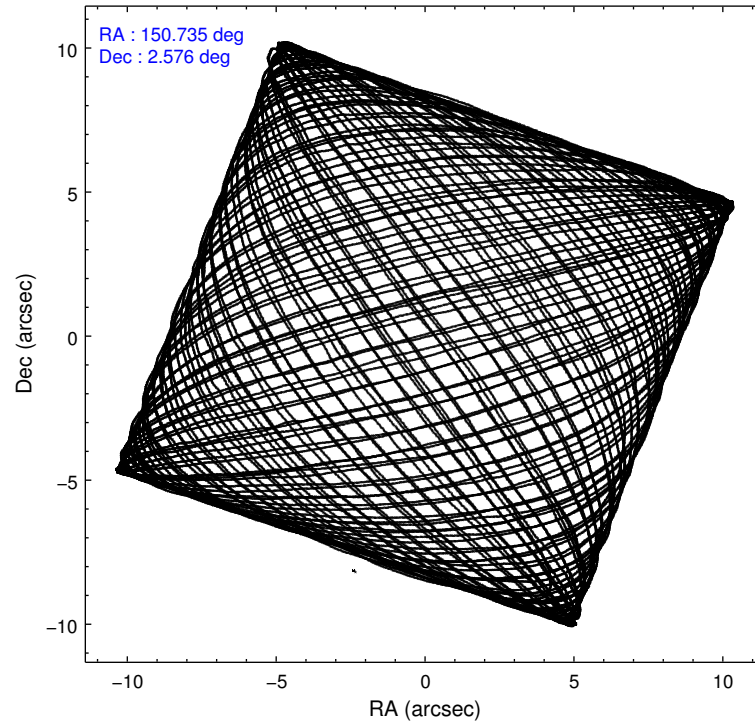
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	191552	193101	212277	206112
rejected events	164719	164107	186329	181165
rejected %	85%	84%	87%	87%

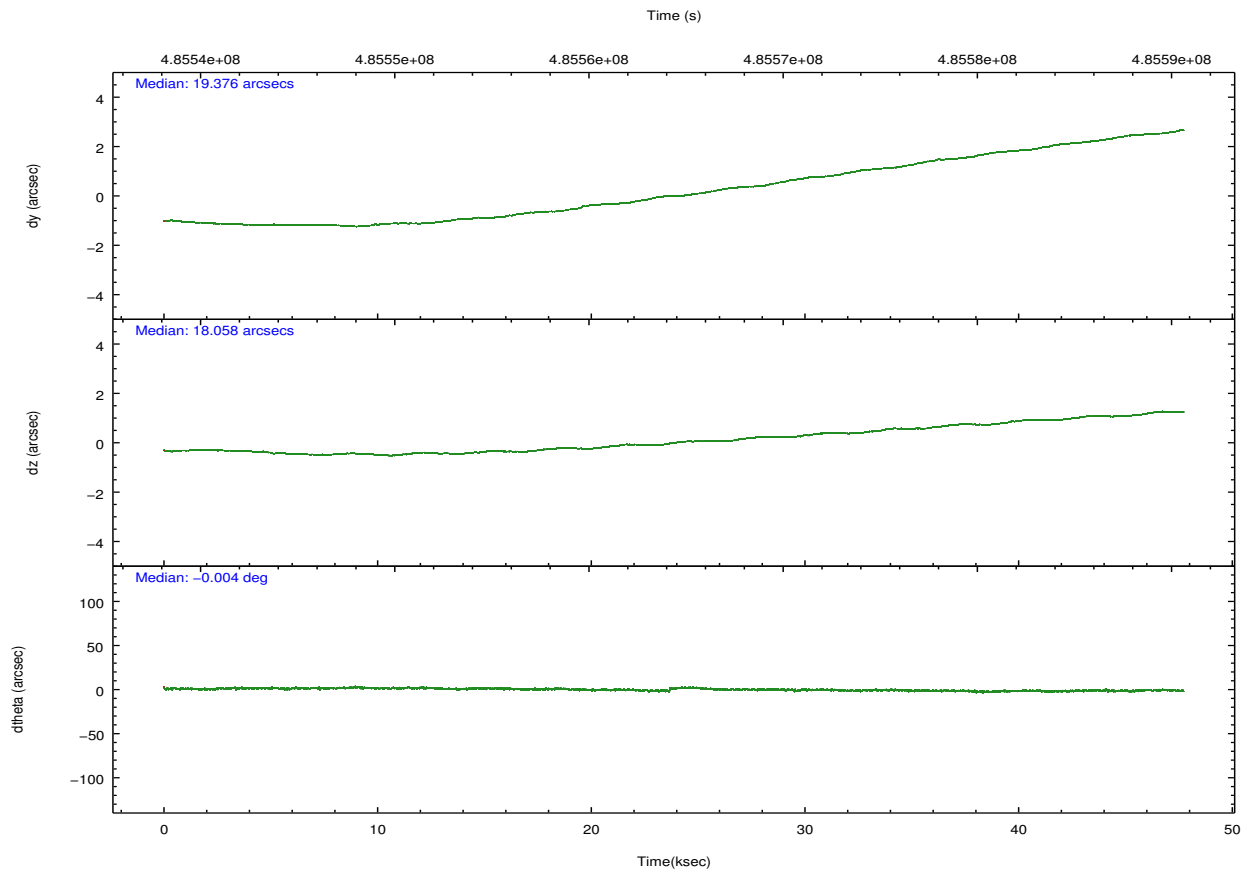
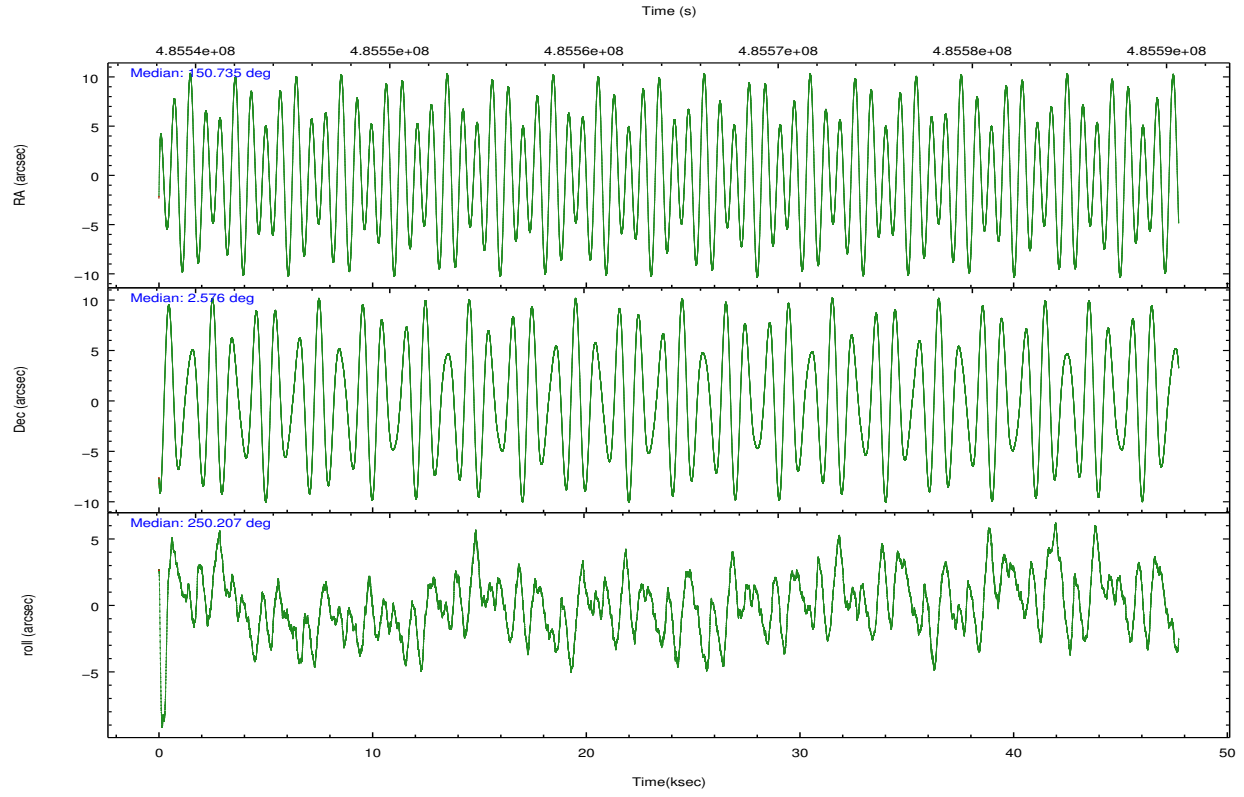
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9561	10204	9398	8918
	4%	5%	4%	4%
grade 1 events	122	125	119	131
	0%	0%	0%	0%
grade 2 events	6643	6989	6353	5572
	3%	3%	2%	2%
grade 3 events	2771	2795	2539	2635
	1%	1%	1%	1%
grade 4 events	2553	2816	2567	2578
	1%	1%	1%	1%
grade 5 events	10041	10744	9562	11466
	5%	5%	4%	5%
grade 6 events	5310	6195	5092	5245
	2%	3%	2%	2%
grade 7 events	154551	153233	176647	169567
	80%	79%	83%	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	150.729930	150.7349246538131	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.602914	2.575875304813366	Alternating exposures requested	N	N
[deg] Pointing Roll	249.999713	250.2081794156896	[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)	485541237.184000	485539846.66098			
Observation start date	2013-05-21T16:32:50	2013-05-21T16:10:46			
[s] Observation end time (MET)	485588237.184000	485589052.81365			
Observation end date	2013-05-22T05:36:10	2013-05-22T05:50:52			
Read mode	TIMED	TIMED			

2.3 Aspect





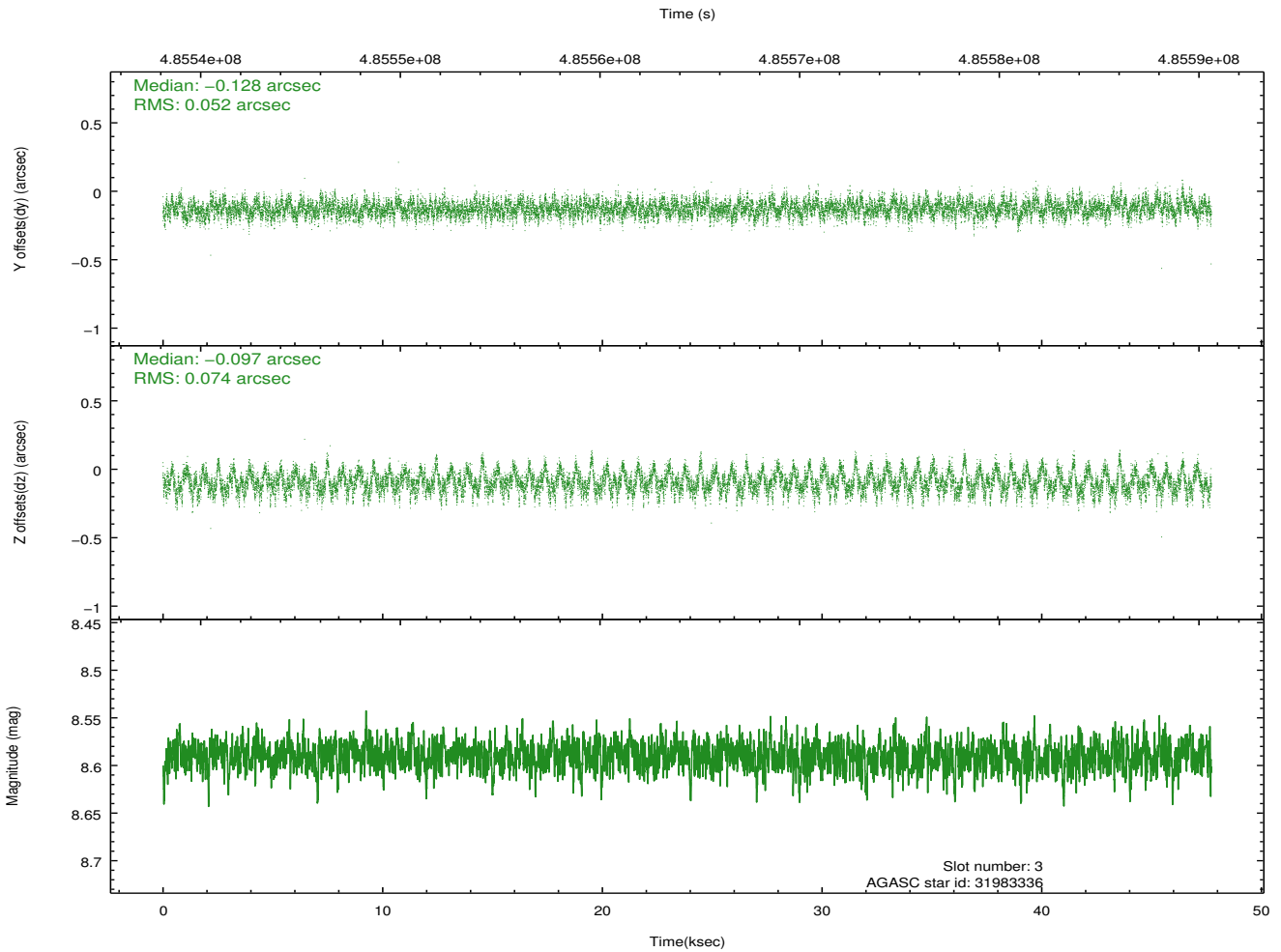
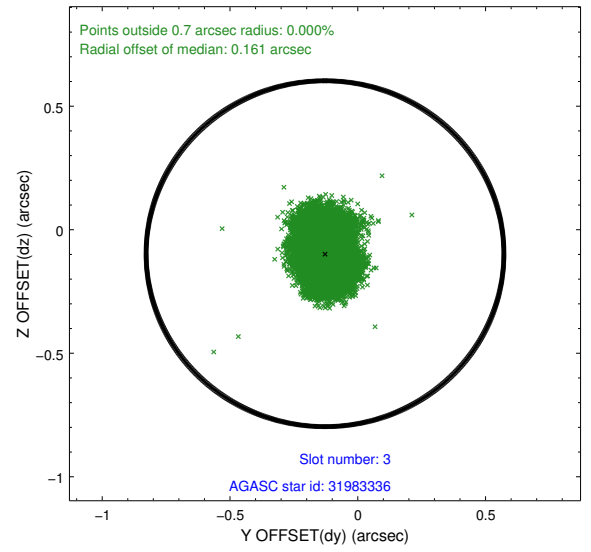
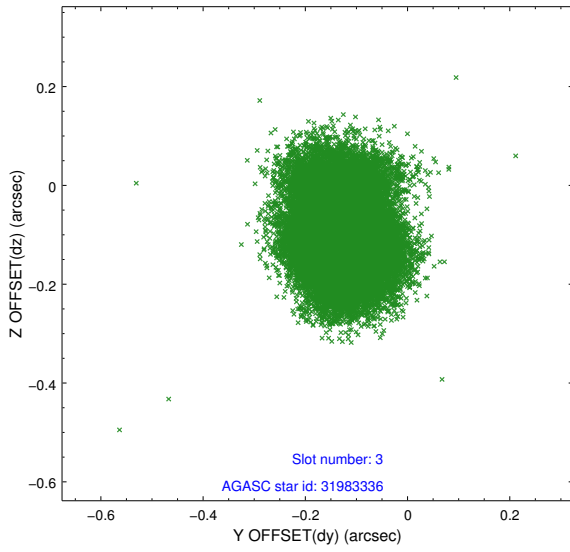
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	11641	-0.025	-0.041	0.047	0.059	0.000000	0.000000	919.72	-841.89
1	FID		ACIS-I-4	6.96	11640	0.254	0.057	0.036	0.045	0.000000	0.000000	2139.97	1058.07
2	FID		ACIS-I-5	7.01	11641	-0.326	0.052	0.026	0.041	0.000000	0.000000	-1828.65	1055.75
3	GUIDE	used	31983336	8.59	23270	-0.128	-0.097	0.097	0.155	150.429924	2.291234	1423.61	-630.25
4	GUIDE	used	31985760	8.44	23276	-0.178	-0.018	0.105	0.160	150.924581	2.094394	1481.38	1284.20
5	GUIDE	used	31986152	8.99	23266	0.142	0.096	0.122	0.190	150.840314	2.057585	1709.83	1044.48
6	GUIDE	used	32375384	9.95	23152	0.136	-0.105	0.236	0.353	150.238117	2.622063	540.49	-1686.17
7	GUIDE	used	32386456	9.21	23259	0.032	0.125	0.126	0.201	150.309862	3.285518	-1792.67	-2259.17

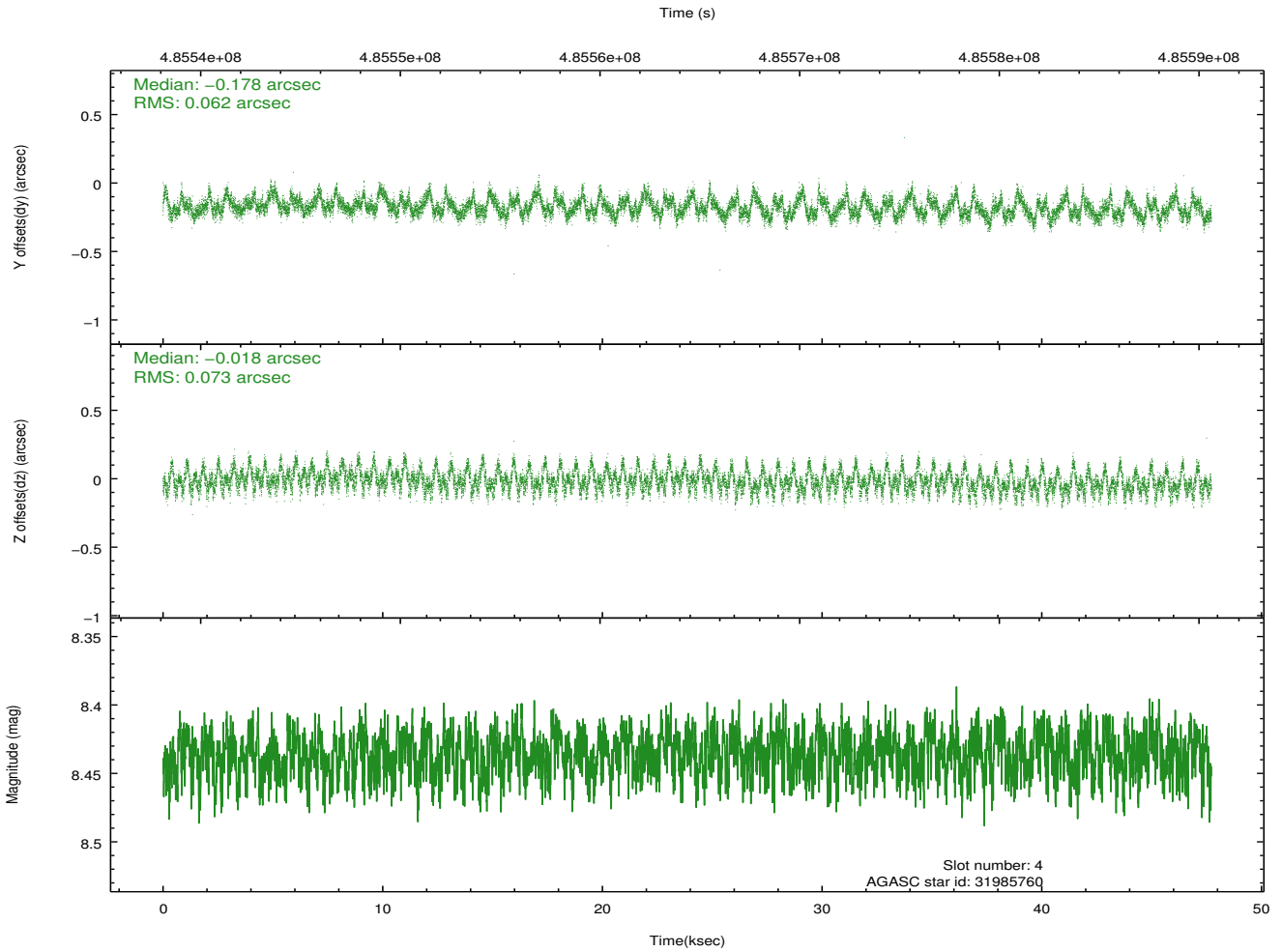
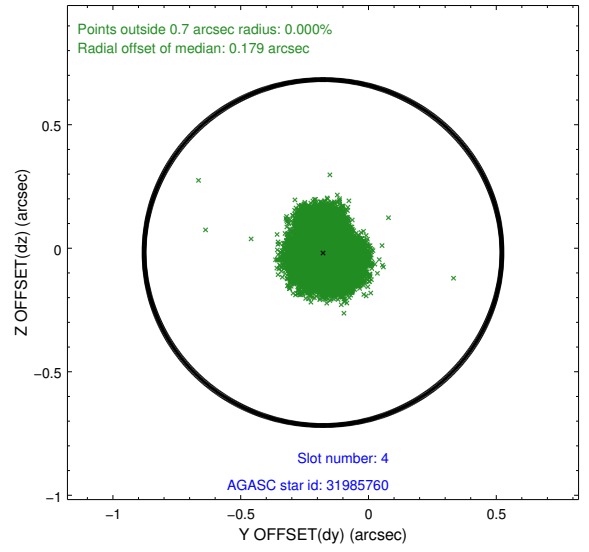
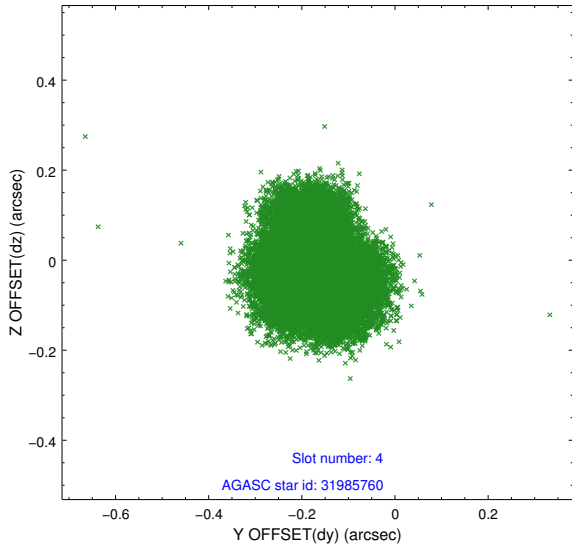
∞

2.4 Star Slots

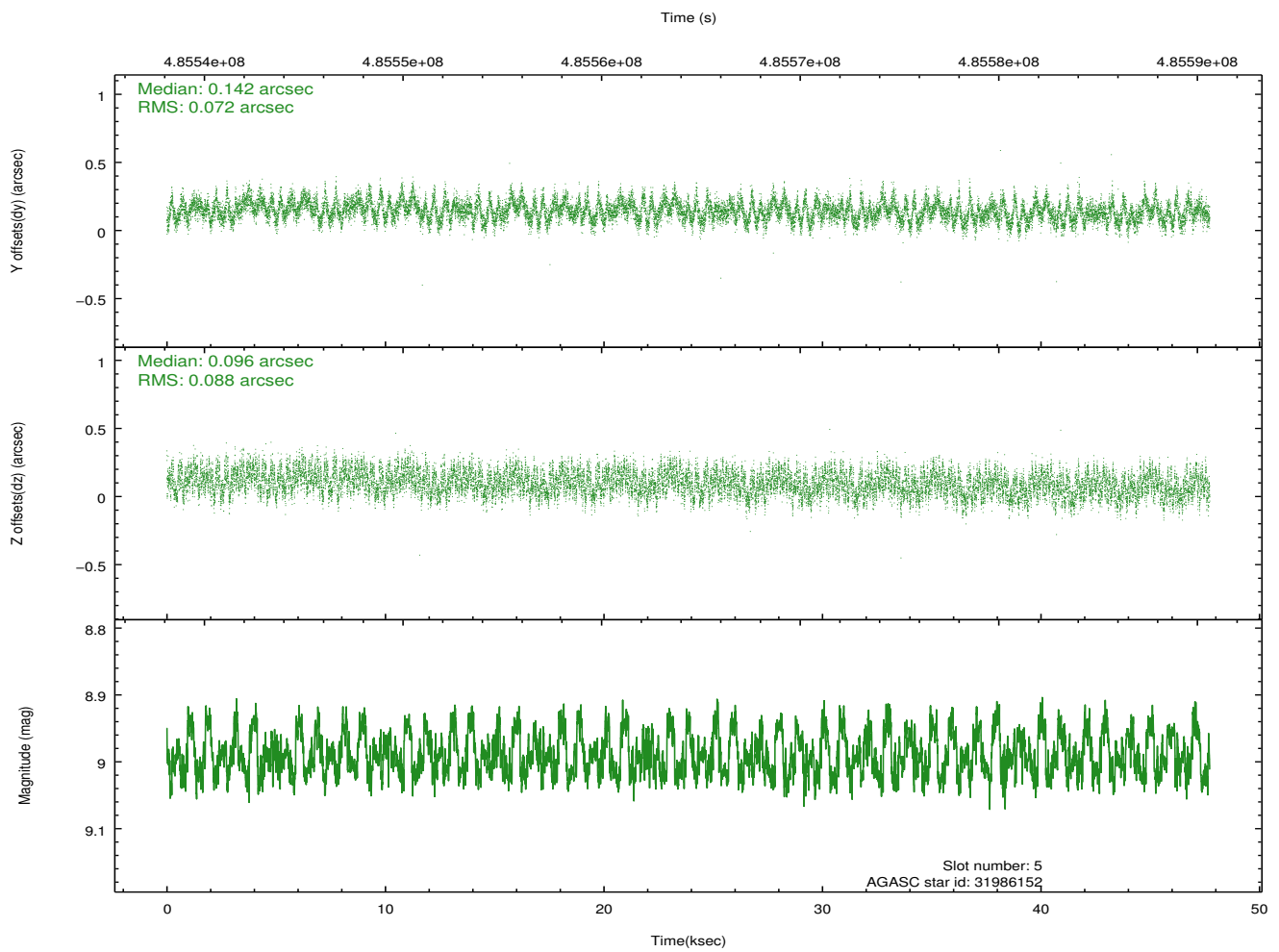
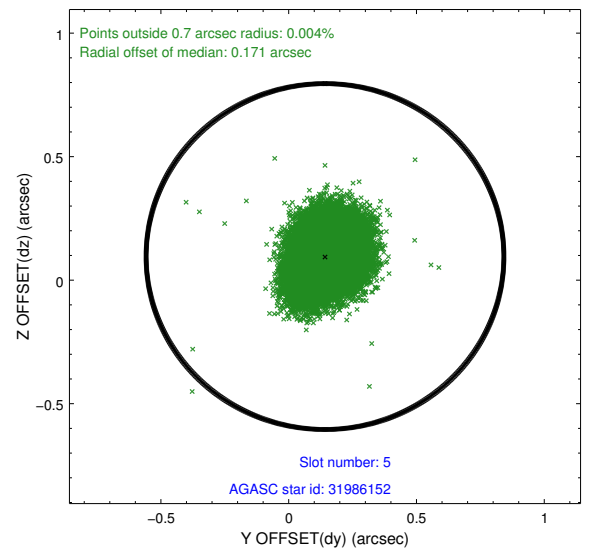
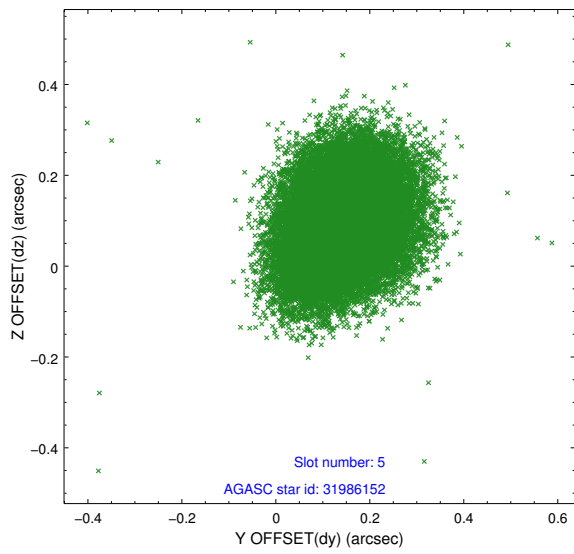
2.4.1 Slot 3



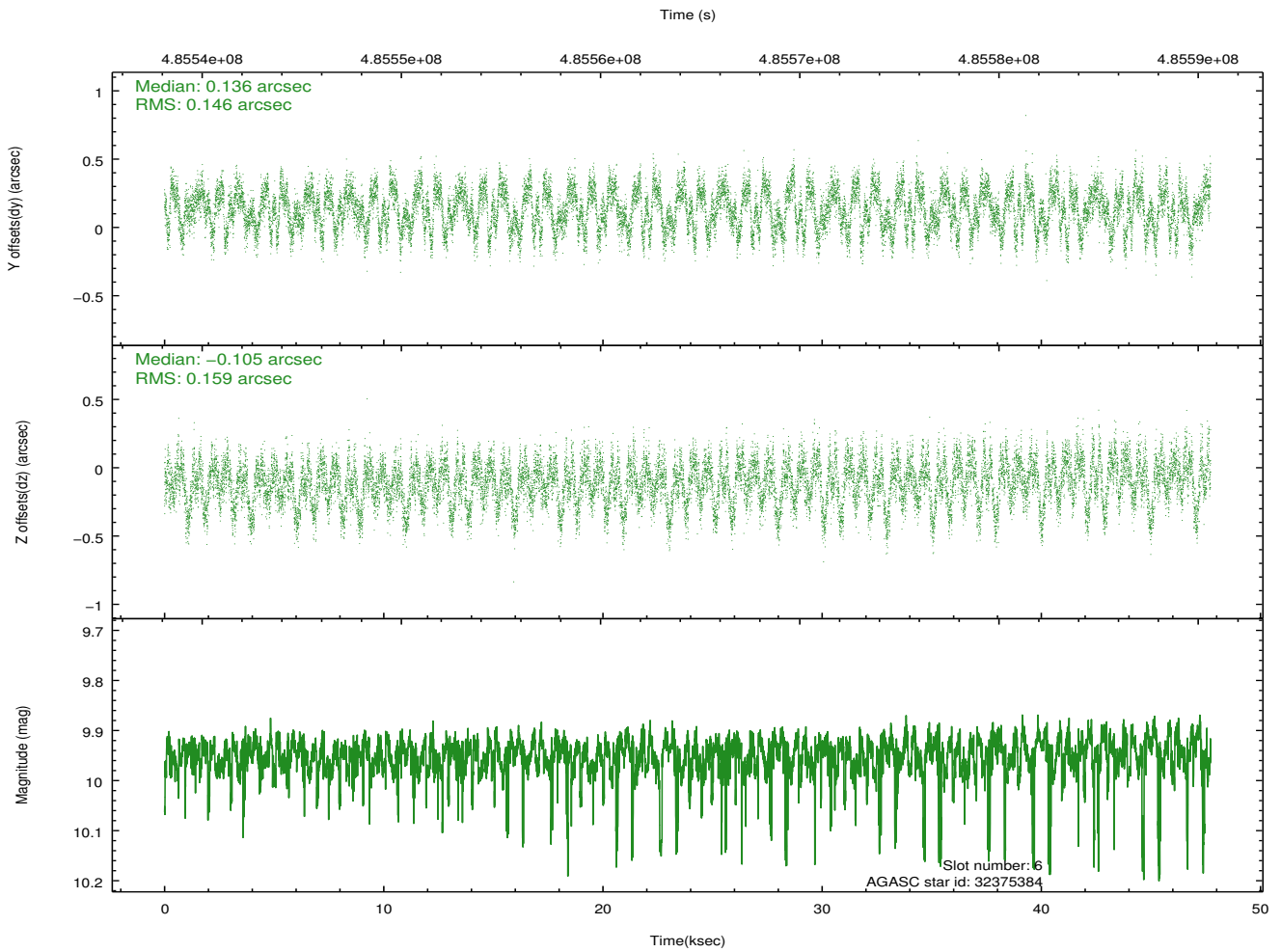
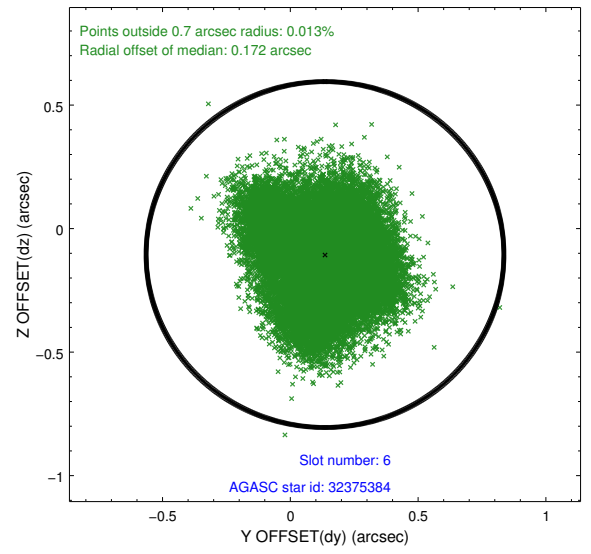
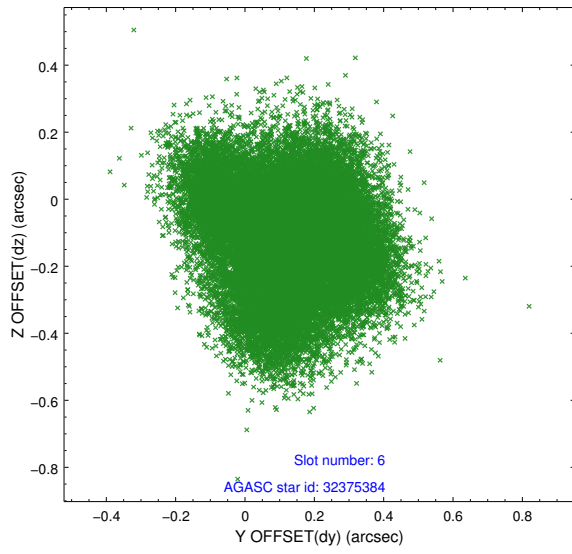
2.4.2 Slot 4



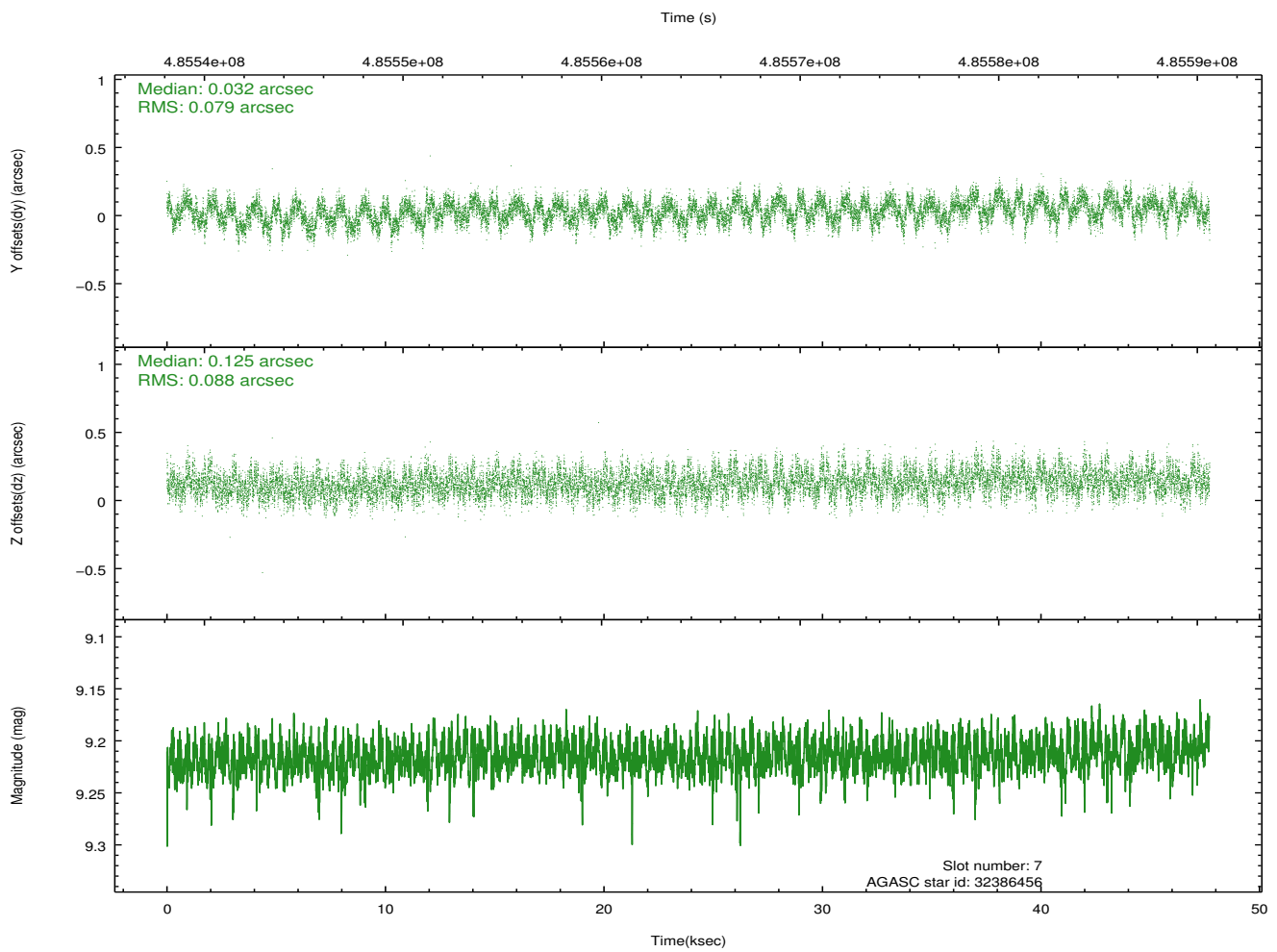
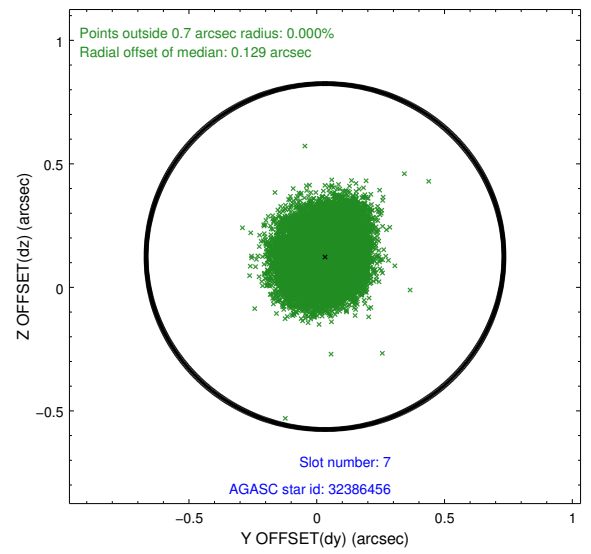
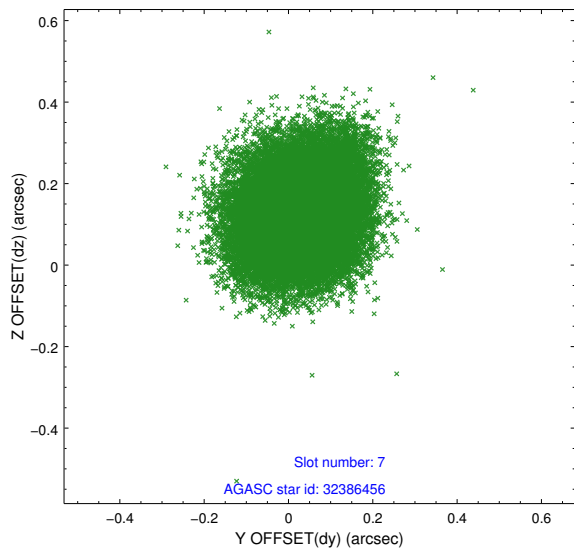
2.4.3 Slot 5



2.4.4 Slot 6

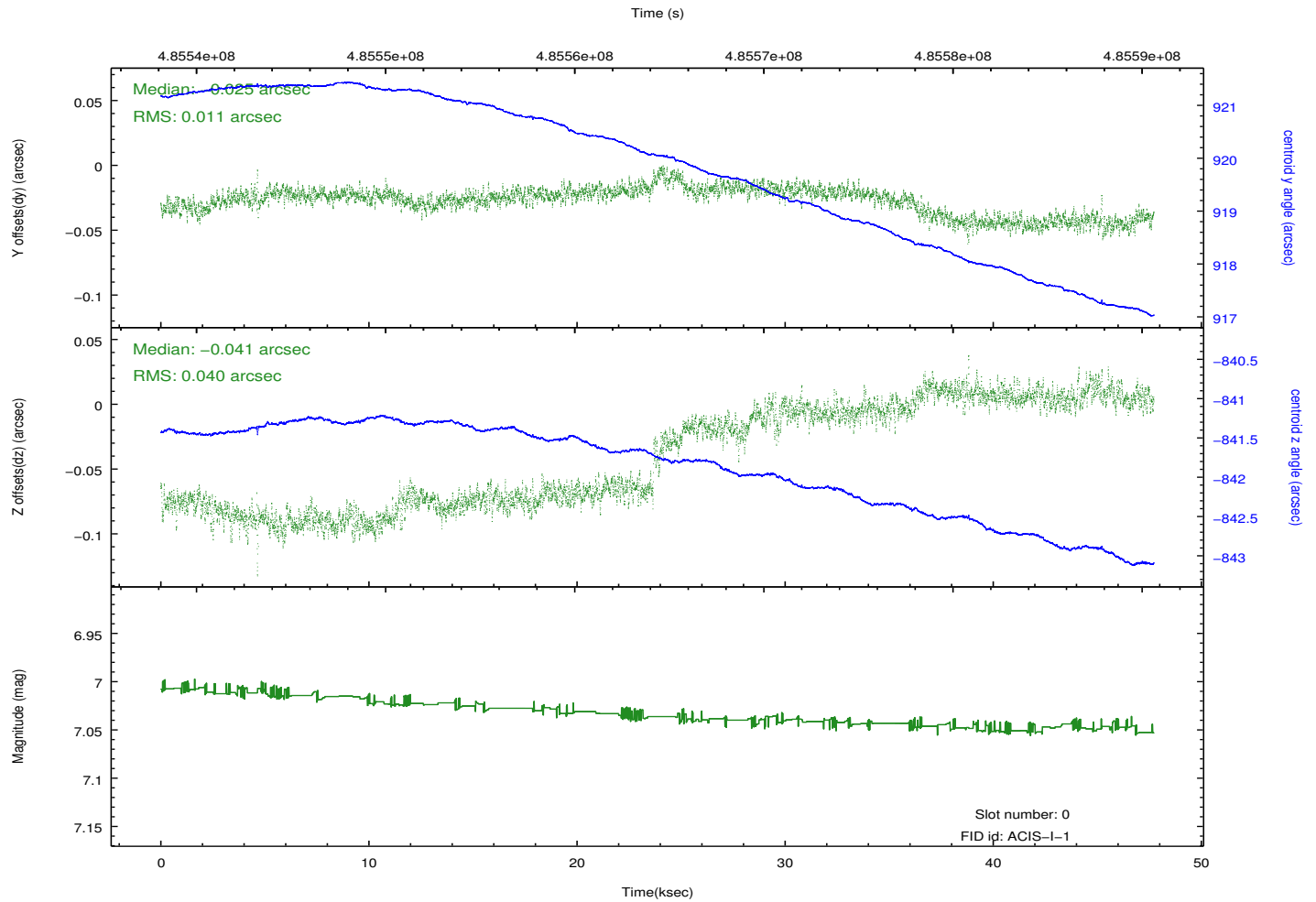
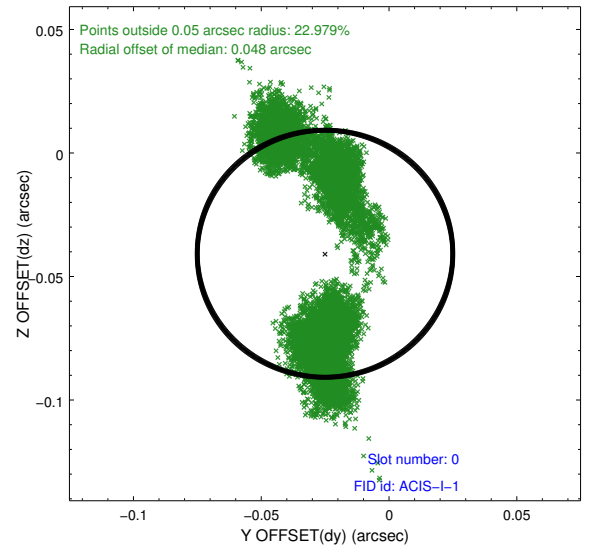
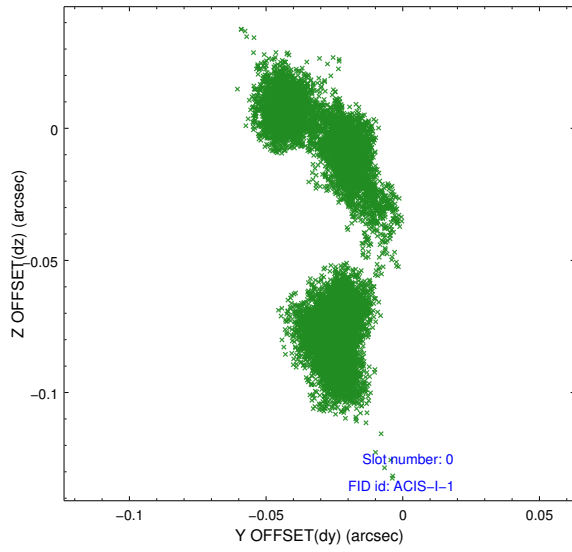


2.4.5 Slot 7

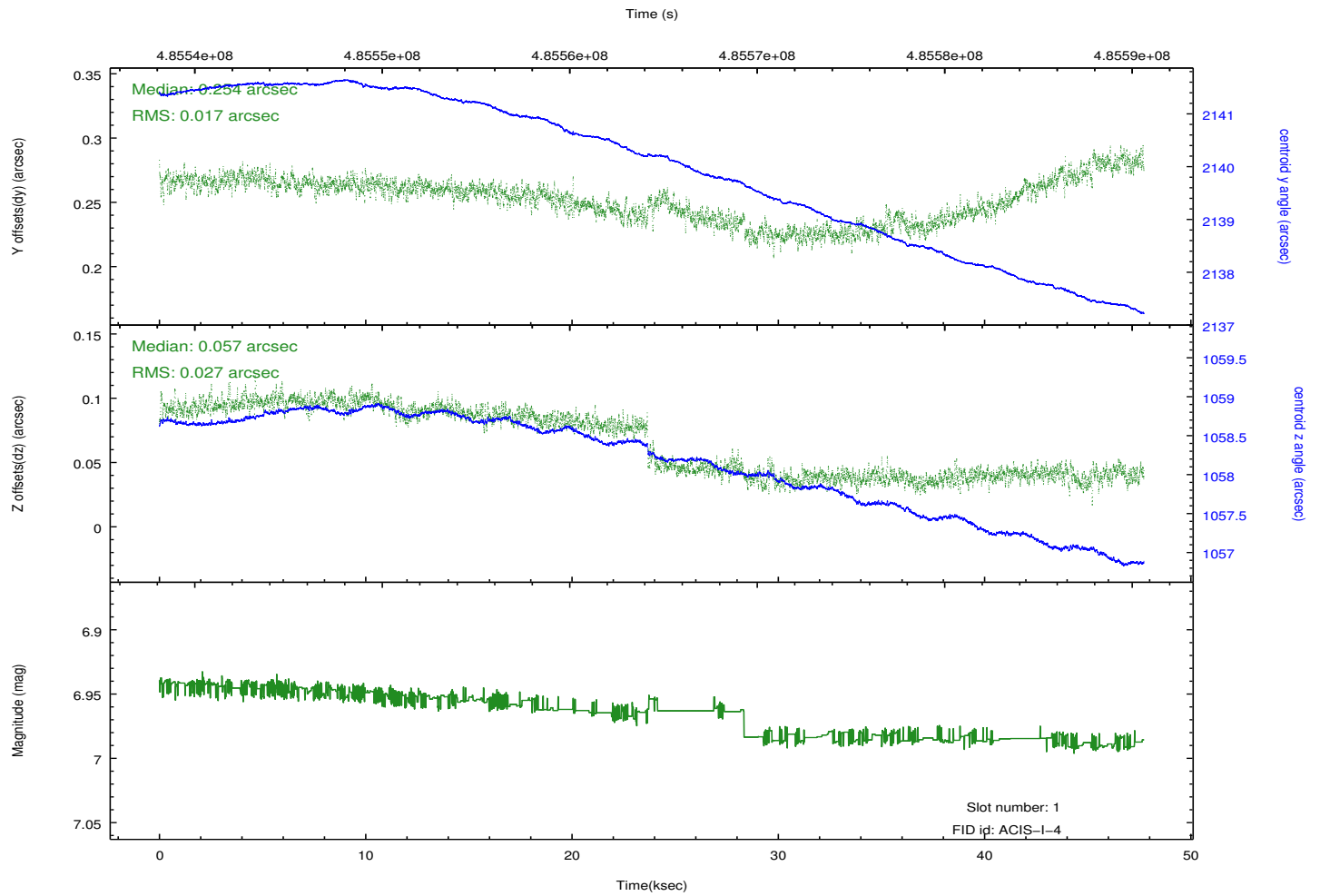
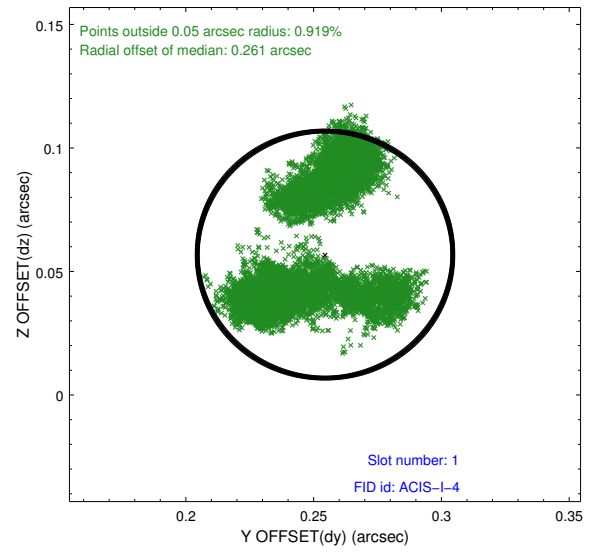
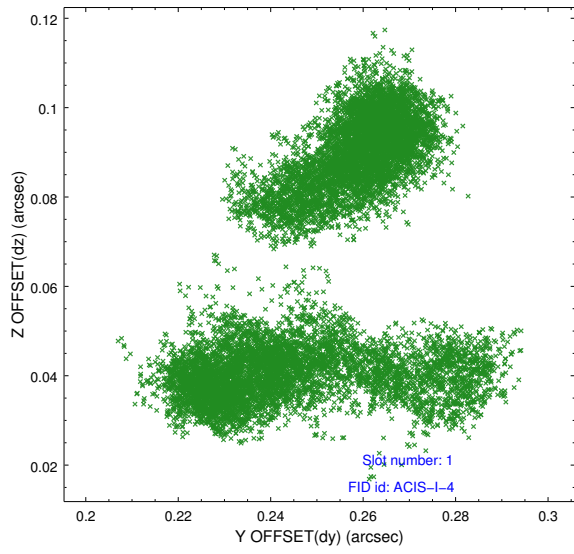


2.5 FID Slots

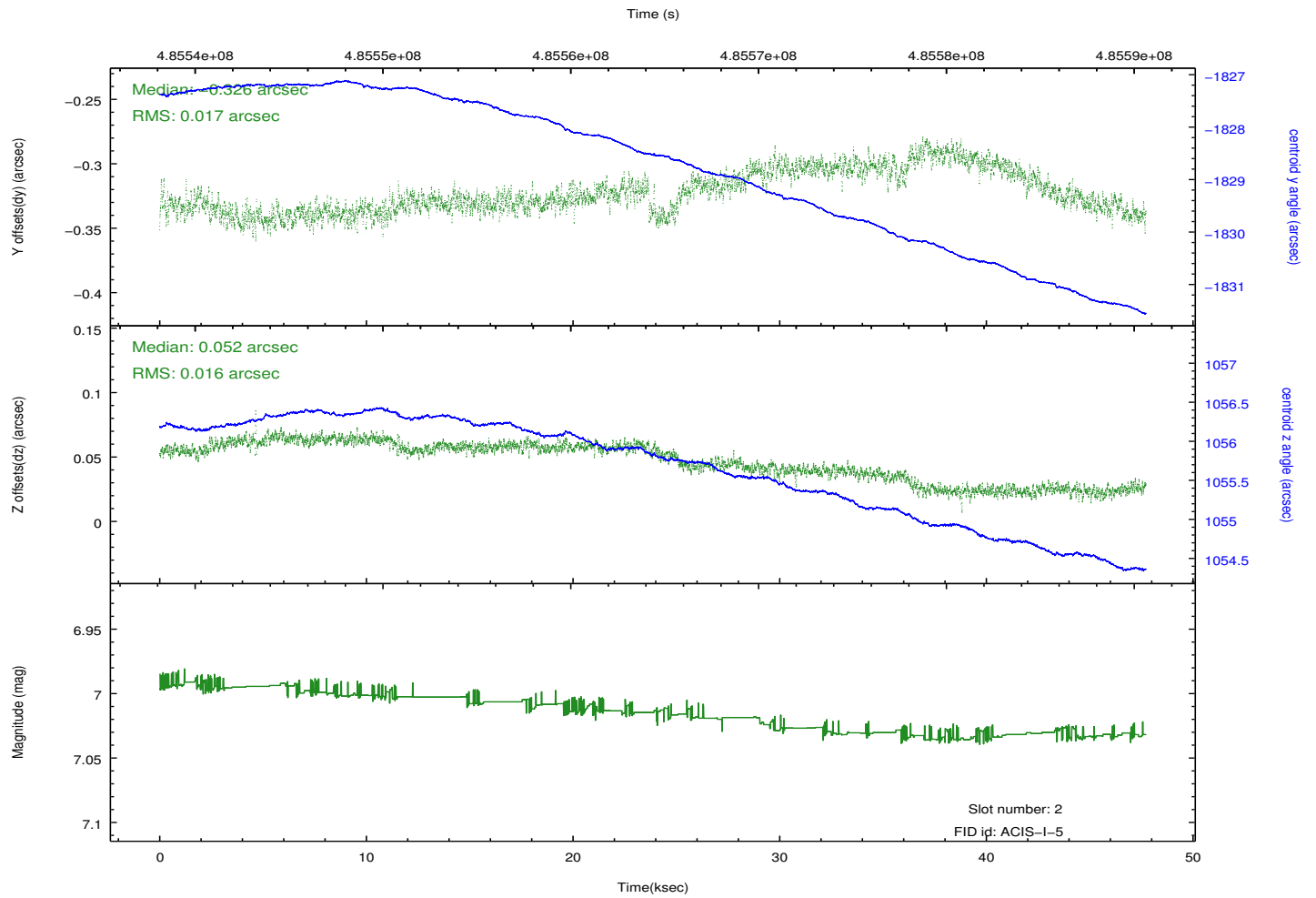
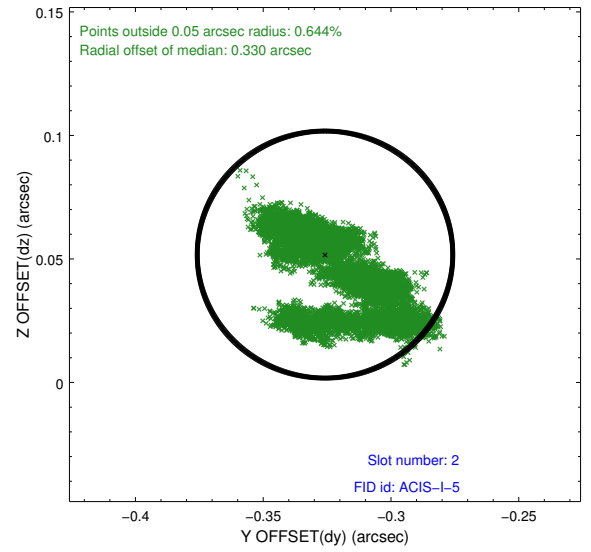
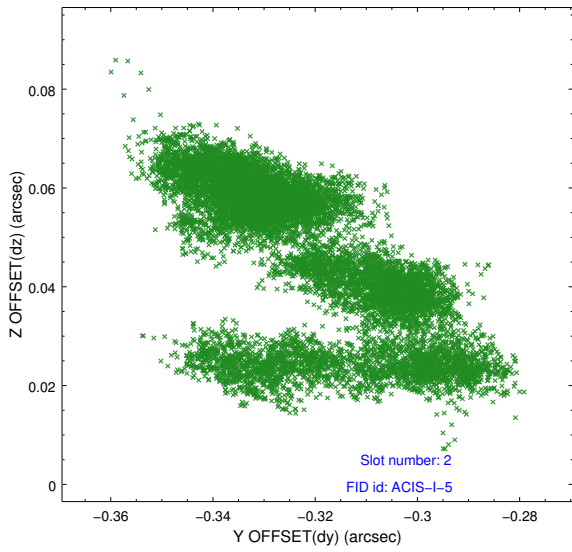
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.091479679644

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.