

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16016 - L2 Version 2
Chandra X-Ray Center

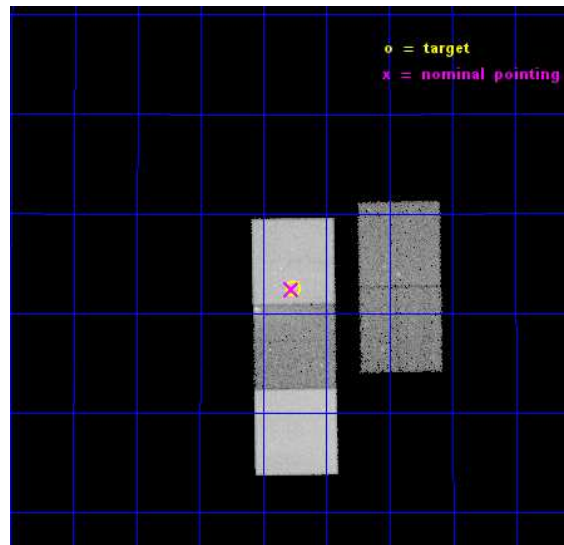
L2 Processing Date : Dec 8 2014

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1 Front

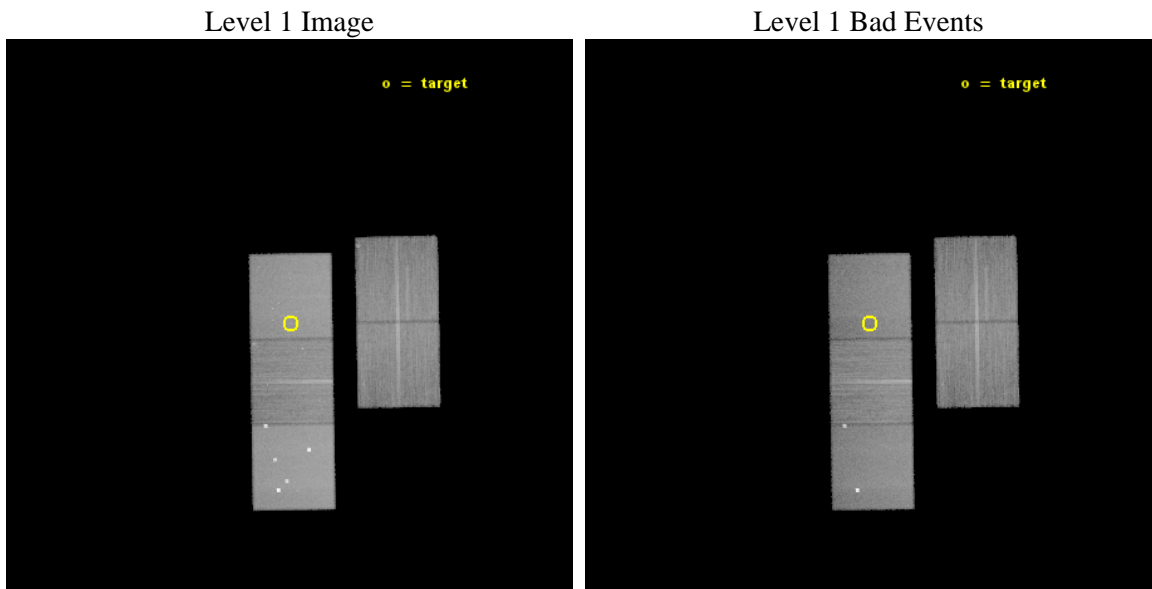
seq_num	601104	Sequence number
obs_id	16016	Observation id
title	A First Look at Giant Bulge-Dominated Low-Surface Brightness Galaxies	Proposal title
observer	Professor Jimmy Irwin	Principal investigator
object	UGC 1922	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.94125	Observer's specified target RA [deg]
dec_targ	28.208889	Observer's specified target Dec [deg]
ra_nom	36.944124153044	Nominal RA [deg]
dec_nom	28.207219485731	Nominal Dec [deg]
roll_nom	269.02246296092	Nominal Roll [deg]
revision	2	Processing version of data
ontime	43976.600338221	Sum of GTIs [s]
livetime	43402.0136797	Livetime [s]
ontime2	43967.177207232	Sum of GTIs [s]
ontime3	43967.177157164	Sum of GTIs [s]
ontime5	43976.600338221	Sum of GTIs [s]
ontime6	43976.600338221	Sum of GTIs [s]
ontime7	43976.600338221	Sum of GTIs [s]
l2events	356413	Number of level 2 events



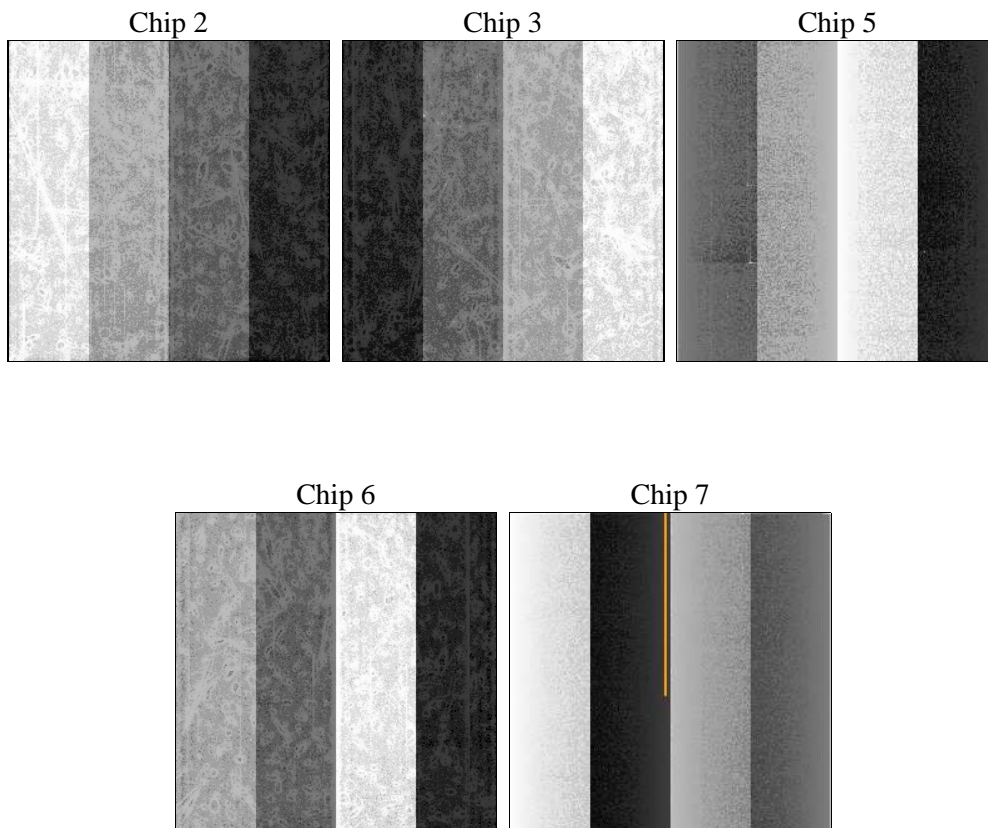
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	43976.600338221	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	43967.177207232	Sum of GTIs [s]
date	2014-12-08T08:50:04	Date and time of file creation	ontime3	43967.177157164	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	43976.600338221	Sum of GTIs [s]
			ontime6	43976.600338221	Sum of GTIs [s]
			ontime7	43976.600338221	Sum of GTIs [s]
			l1events	1305420	Number of level 1 events

2.1.4 Events

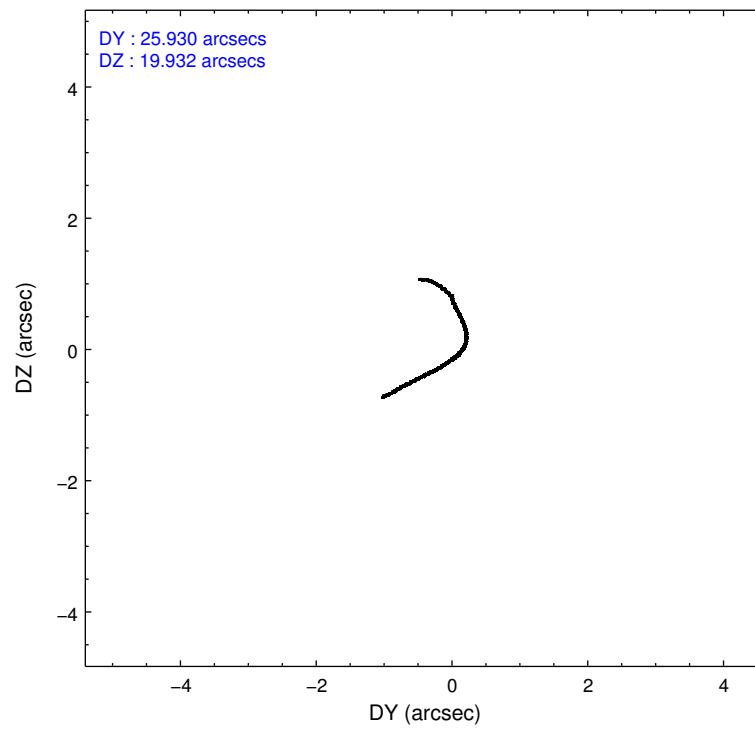
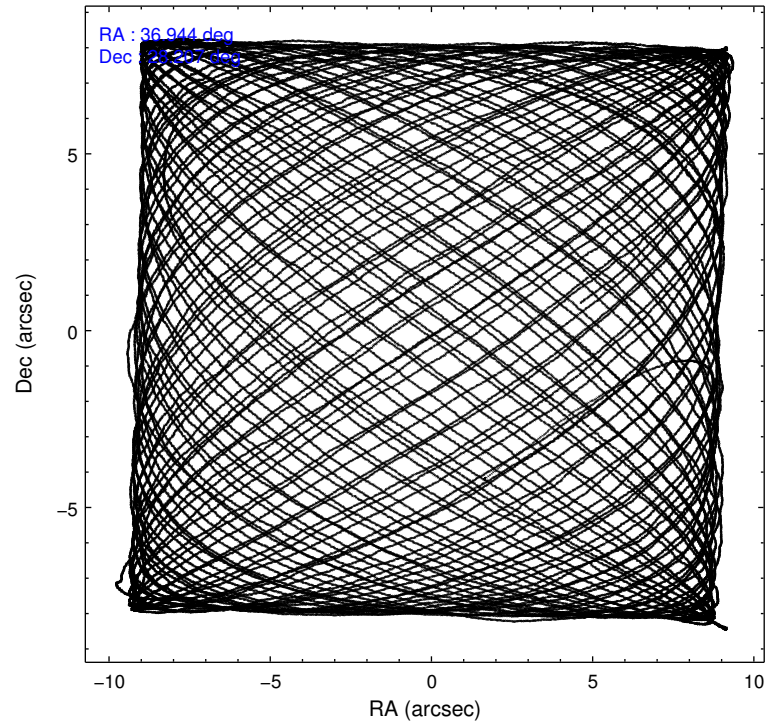
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	201434	196985	387751	220956	298294
rejected events	178026	173102	197764	189369	165809
rejected %	88%	87%	51%	85%	55%

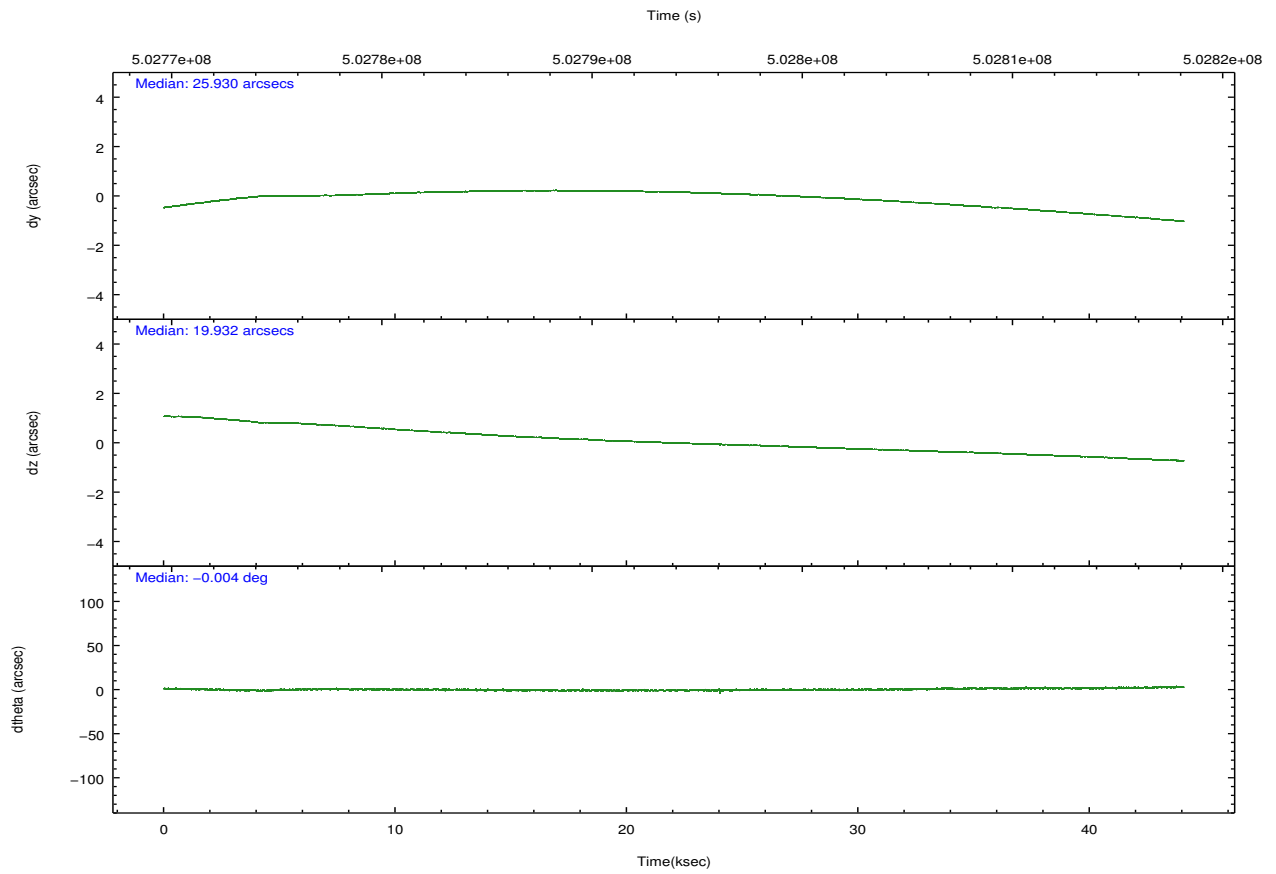
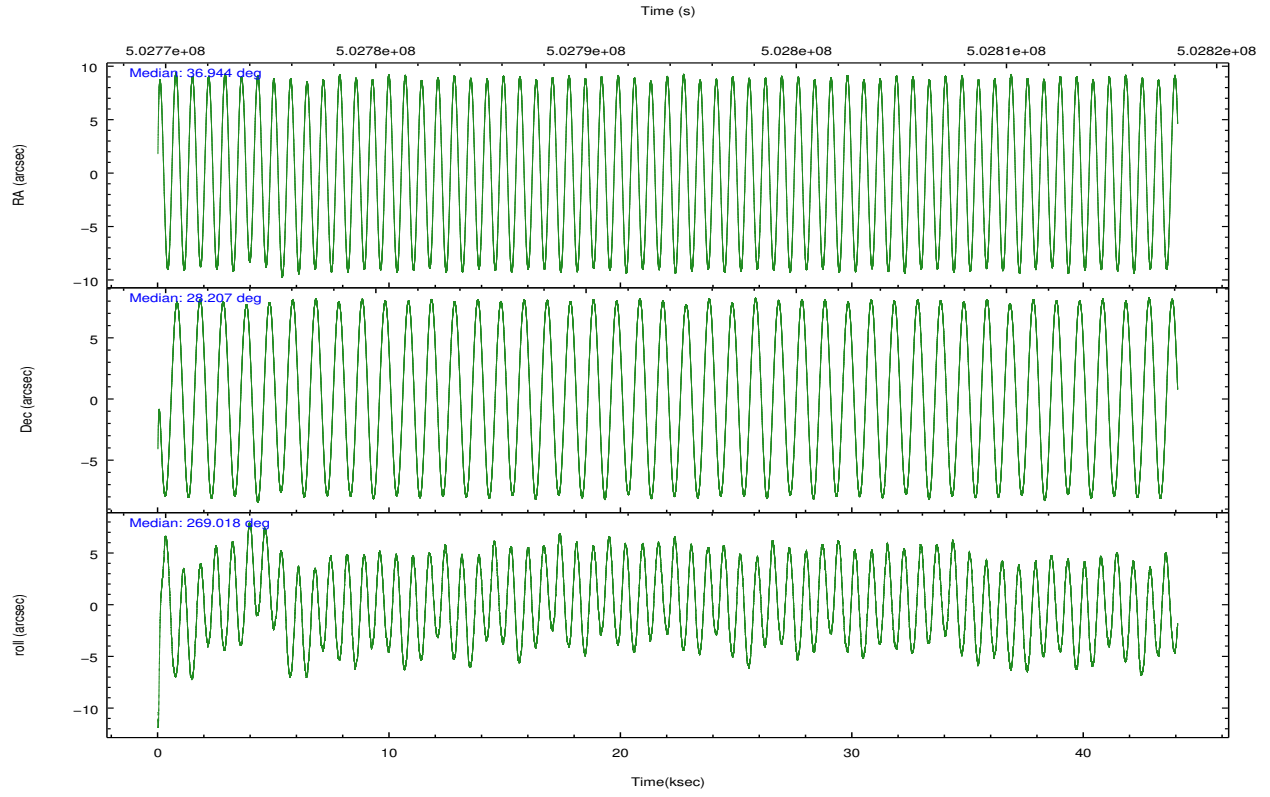
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	8263	8603	34340	13471	12951
	4%	4%	8%	6%	4%
grade 1 events	126	123	2753	126	330
	0%	0%	0%	0%	0%
grade 2 events	5756	5236	52698	6513	27769
	2%	2%	13%	2%	9%
grade 3 events	2426	2510	5683	2747	11470
	1%	1%	1%	1%	3%
grade 4 events	2429	2508	5609	2777	11478
	1%	1%	1%	1%	3%
grade 5 events	8952	11345	26374	11206	30077
	4%	5%	6%	5%	10%
grade 6 events	4537	5027	91697	6082	68841
	2%	2%	23%	2%	23%
grade 7 events	168945	161633	168597	178034	135378
	83%	82%	43%	80%	45%

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	36.928692	36.94412415304379	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.230948	28.20721948573143	Alternating exposures requested	N	N
[deg] Pointing Roll	268.873139	269.0224629609215	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	502772014.184000	502770884.28844			
Observation start date	2013-12-07T02:52:27	2013-12-07T02:34:44			
[s] Observation end time (MET)	502817014.184000	502817023.64097			
Observation end date	2013-12-07T15:22:27	2013-12-07T15:23:43			
Read mode	TIMED	TIMED			

2.3 Aspect





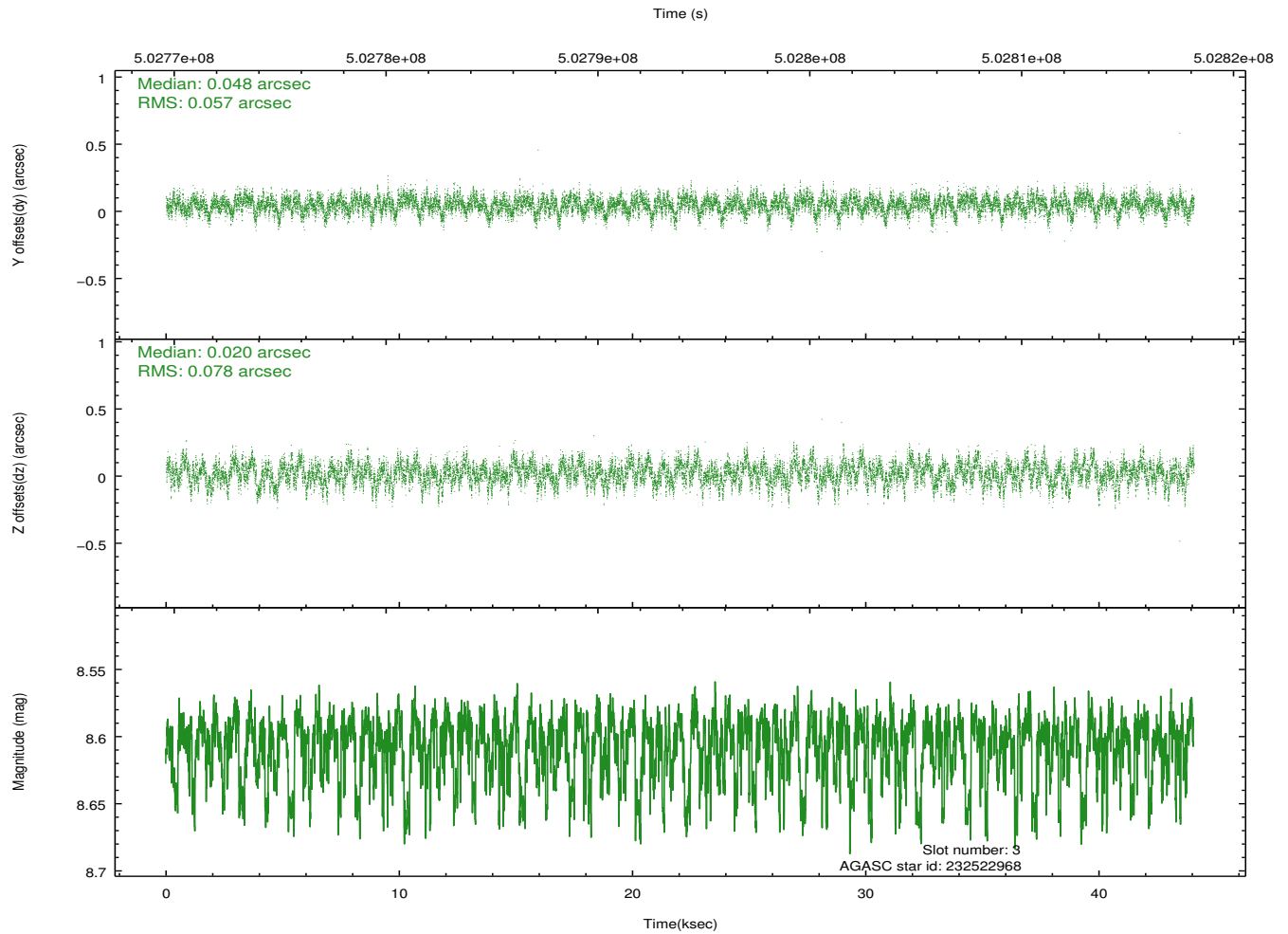
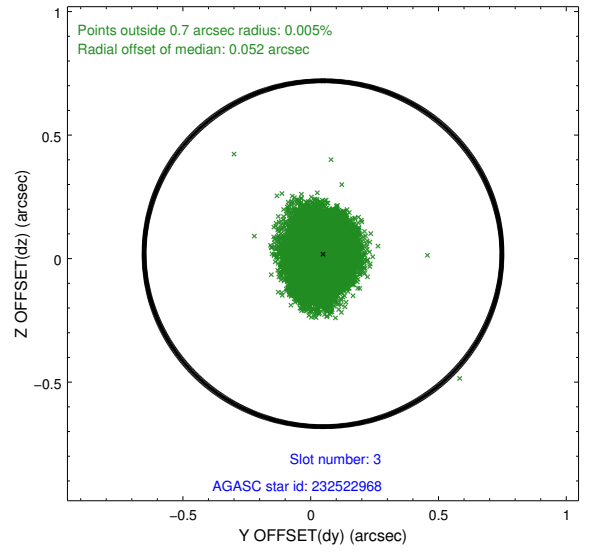
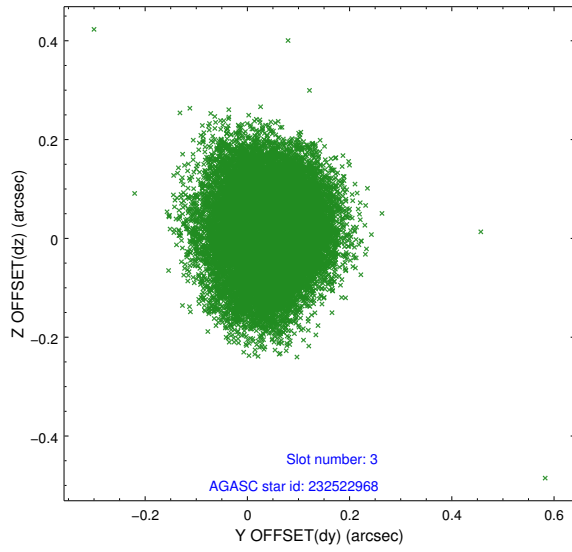
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	10748	-0.194	-0.004	0.011	0.023	0.000000	0.000000	-779.24	-1741.53
1	FID		ACIS-S-4	7.03	10746	0.355	0.095	0.008	0.014	0.000000	0.000000	2134.58	167.07
2	FID		ACIS-S-5	7.05	10749	-0.191	-0.082	0.012	0.020	0.000000	0.000000	-1832.09	160.54
3	GUIDE	used	232522968	8.60	21489	0.048	0.020	0.102	0.169	36.345484	27.993449	887.58	-1836.63
4	GUIDE	used	232524184	8.05	21496	0.008	-0.039	0.069	0.110	36.673123	28.048850	671.09	-799.03
5	GUIDE	used	233049480	8.65	21494	0.056	0.106	0.106	0.169	36.232345	28.822690	-2092.18	-2237.50
6	GUIDE	used	232524392	8.14	21489	-0.313	-0.364	0.086	0.137	37.657371	27.800075	1498.27	2350.22
7	GUIDE	used	233046320	8.86	21487	0.205	0.268	0.085	0.137	36.417403	28.766127	-1895.93	-1648.44

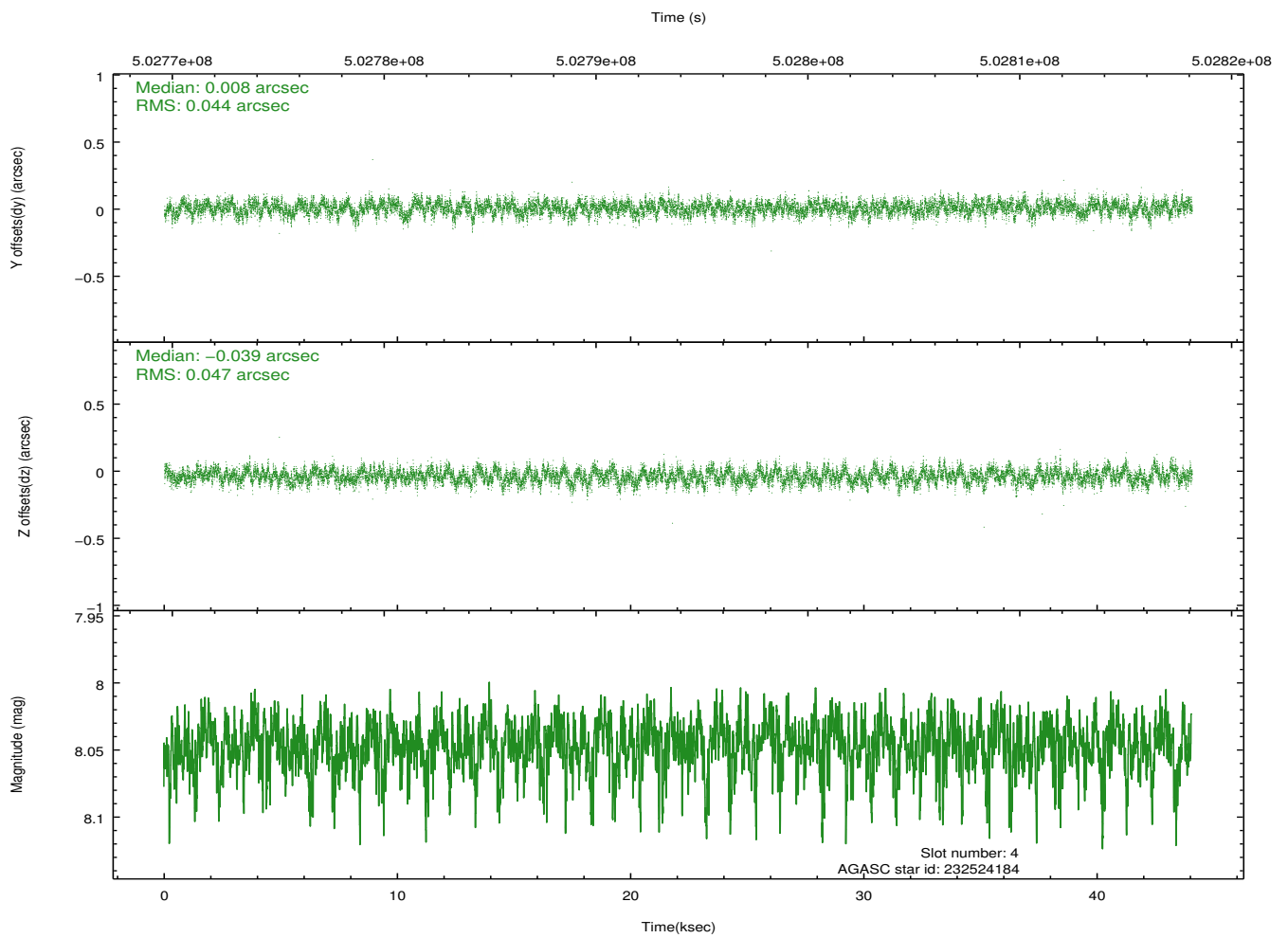
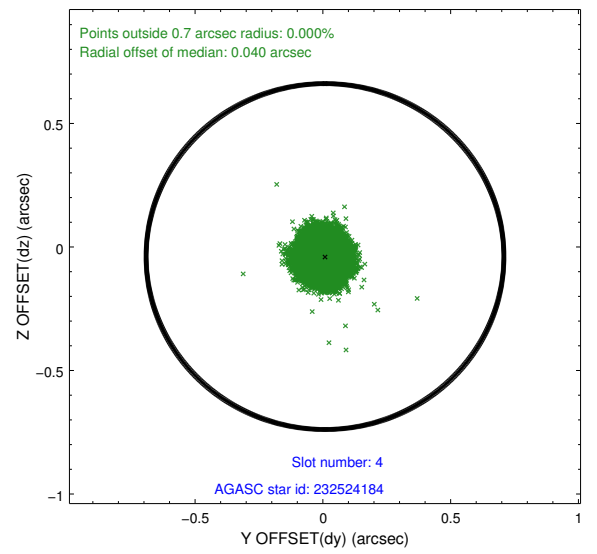
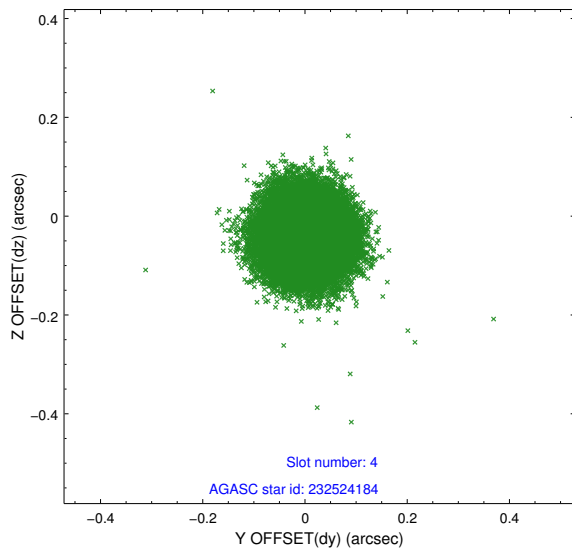
∞

2.4 Star Slots

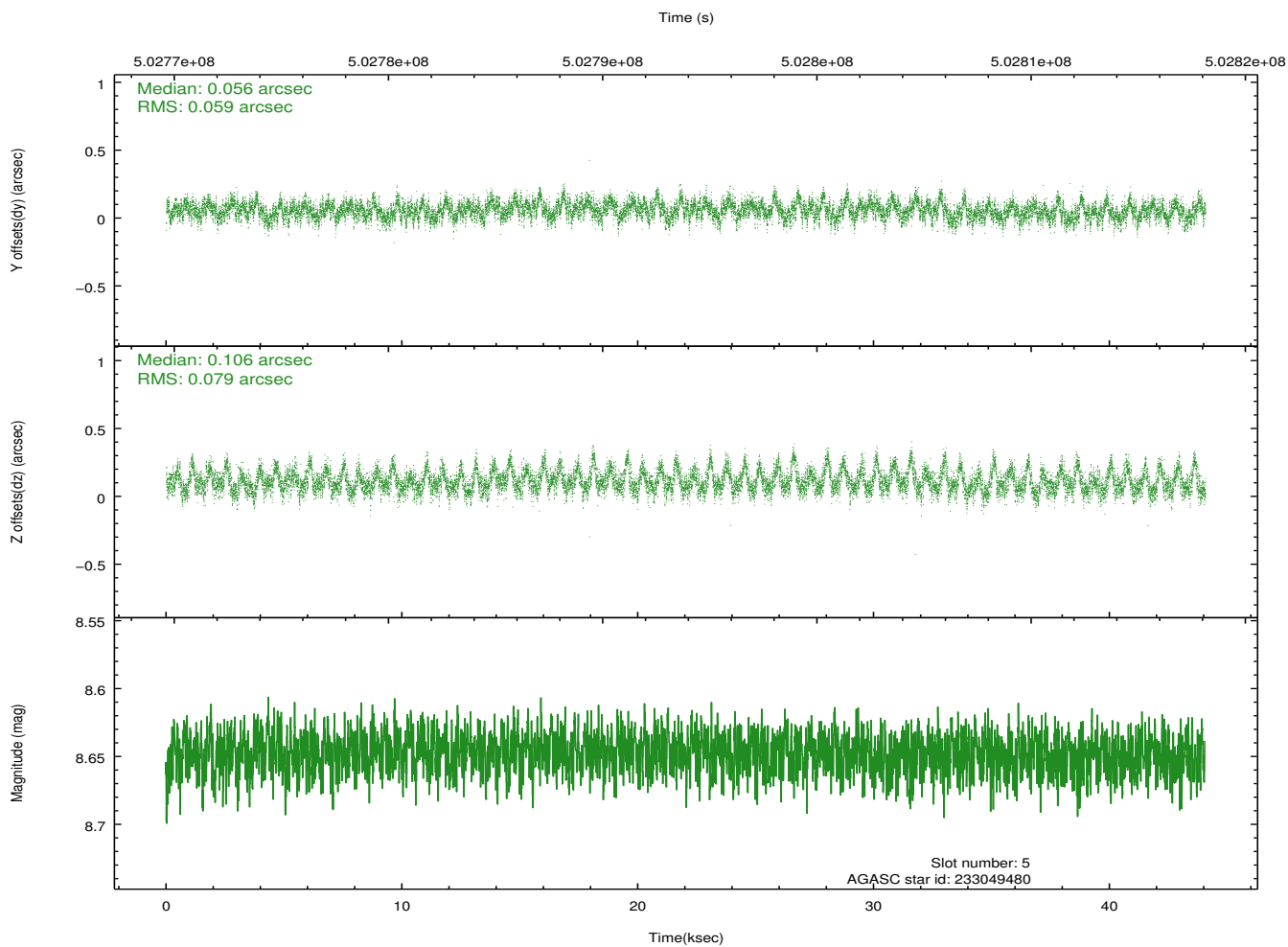
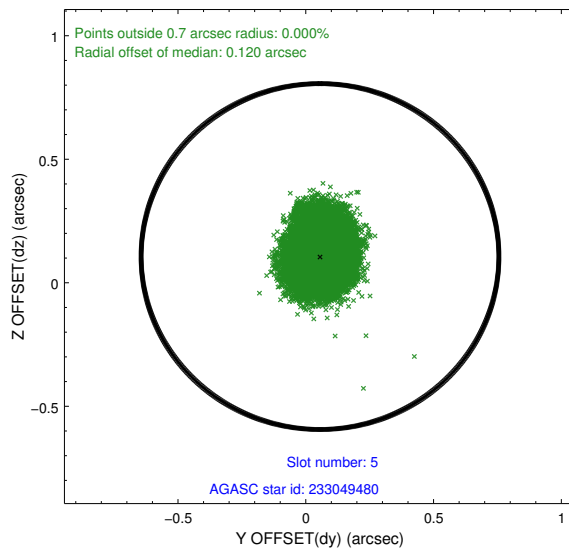
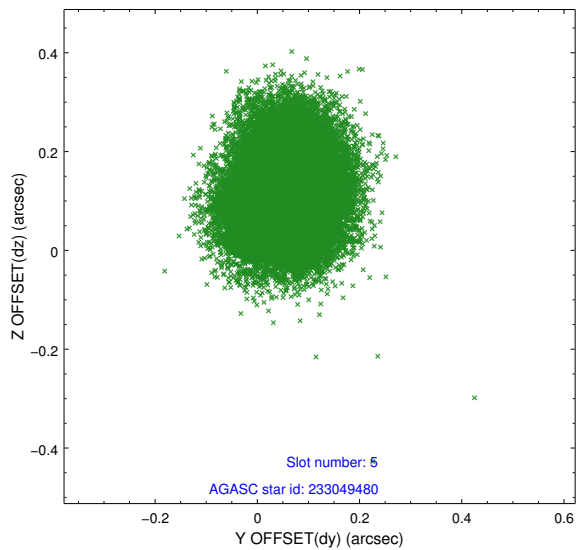
2.4.1 Slot 3



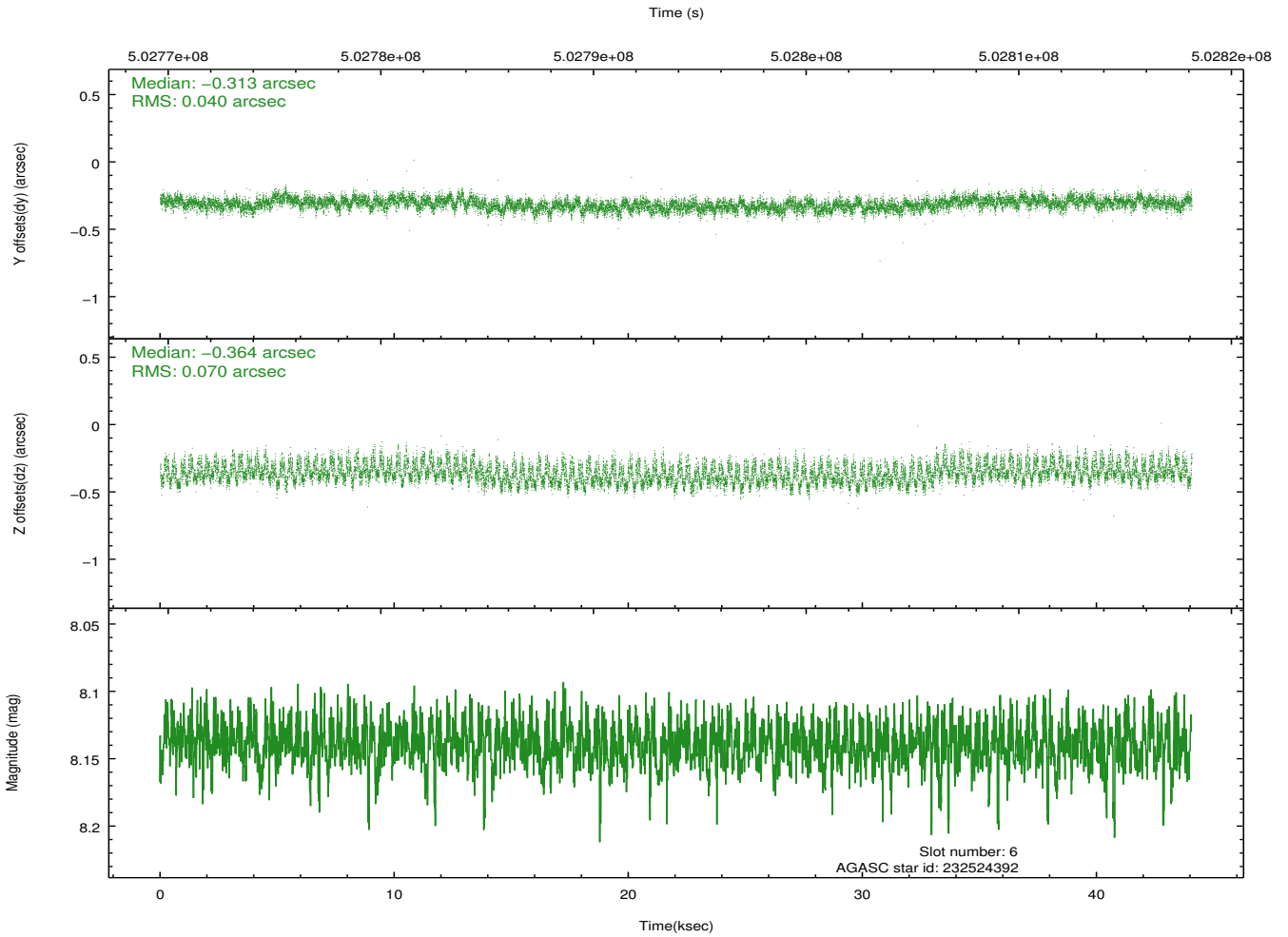
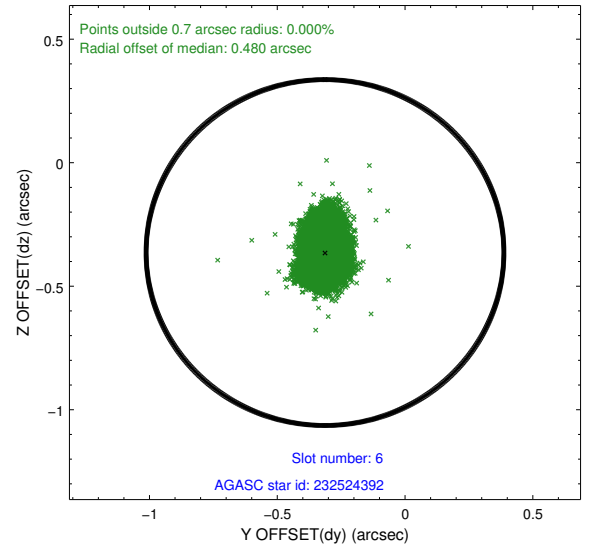
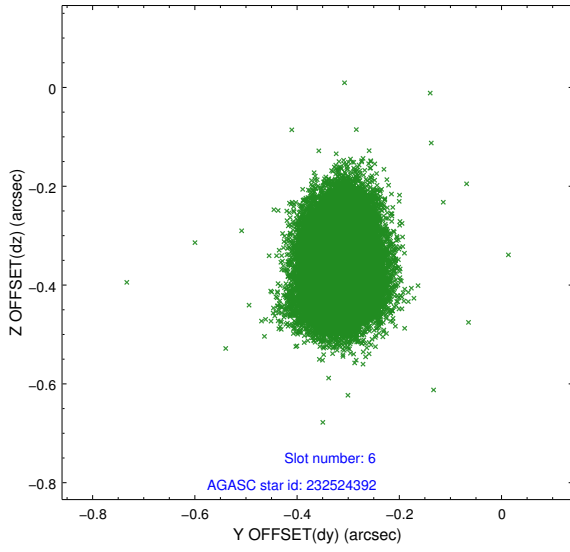
2.4.2 Slot 4



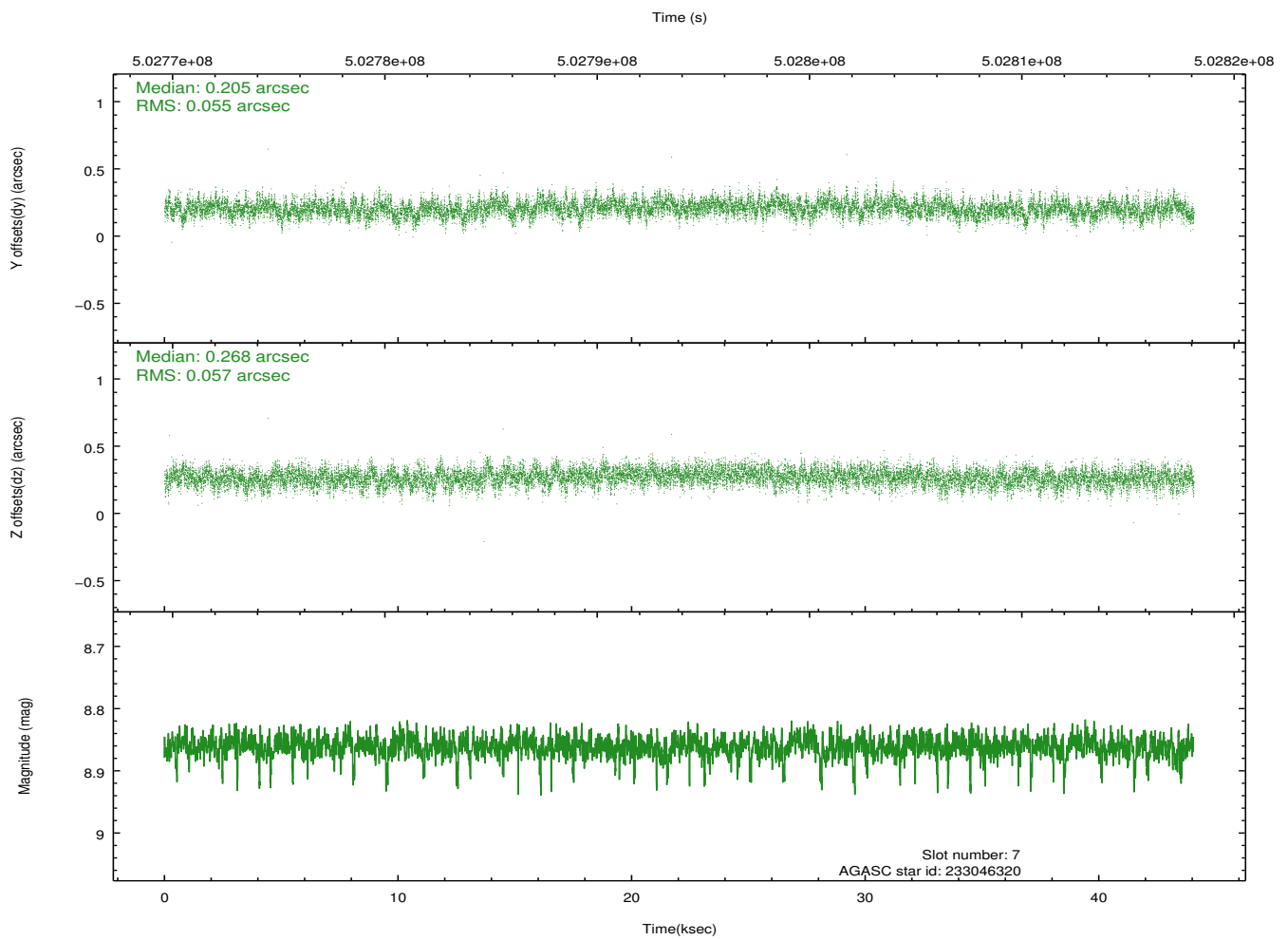
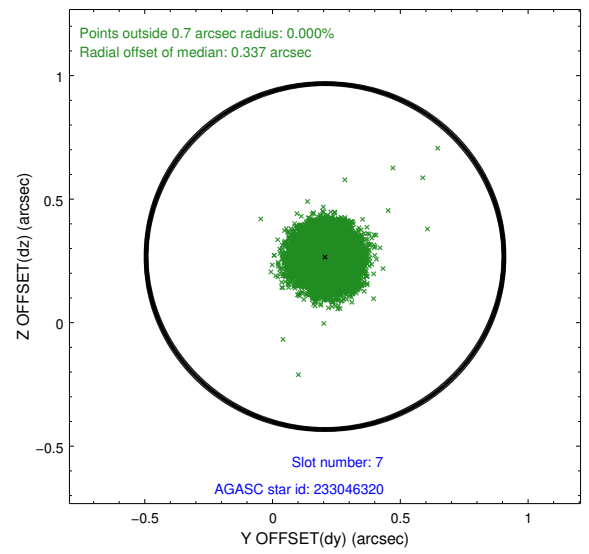
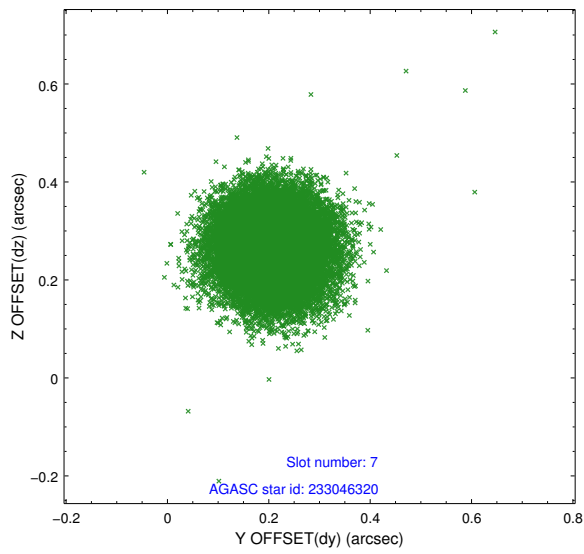
2.4.3 Slot 5



2.4.4 Slot 6

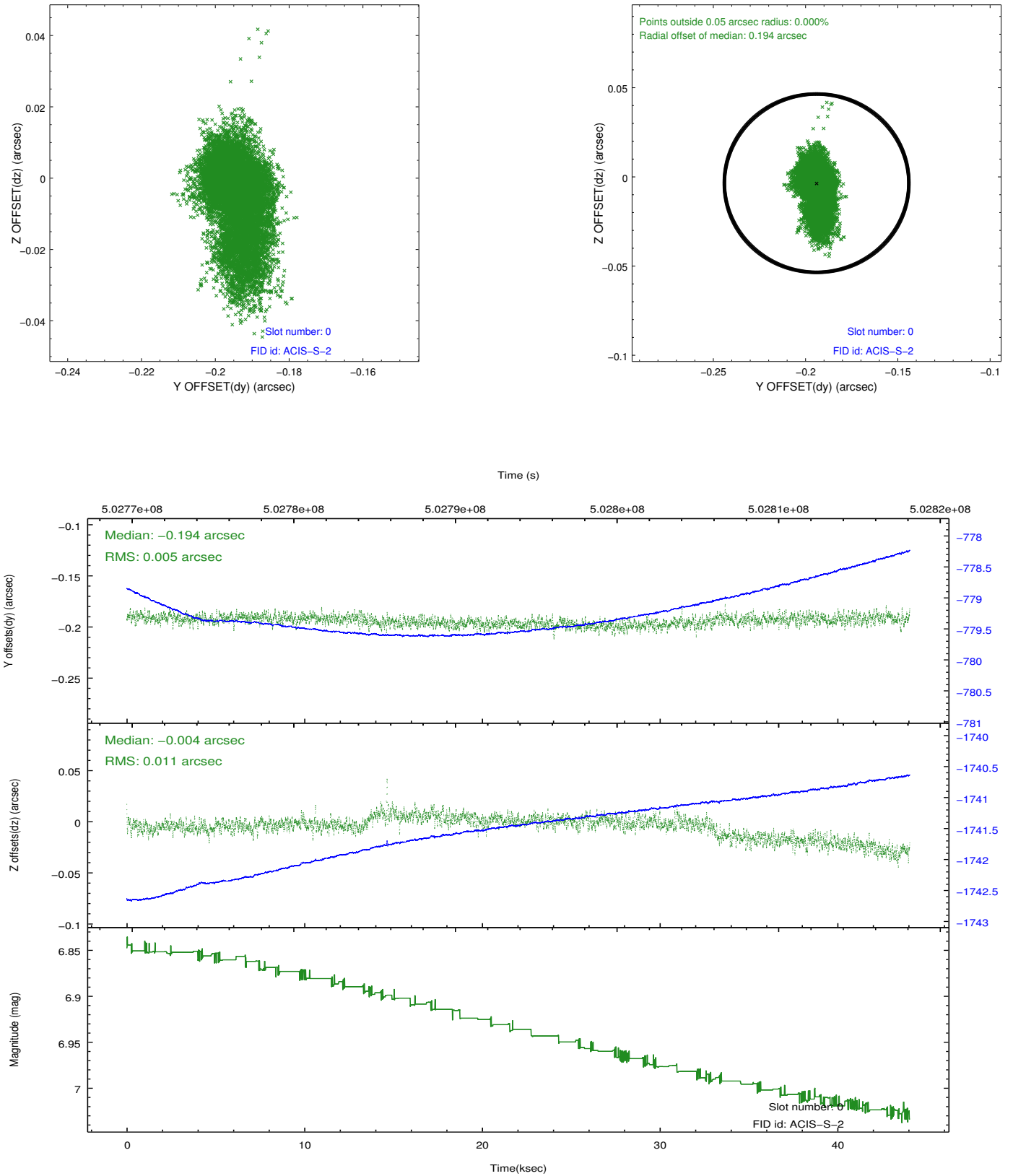


2.4.5 Slot 7

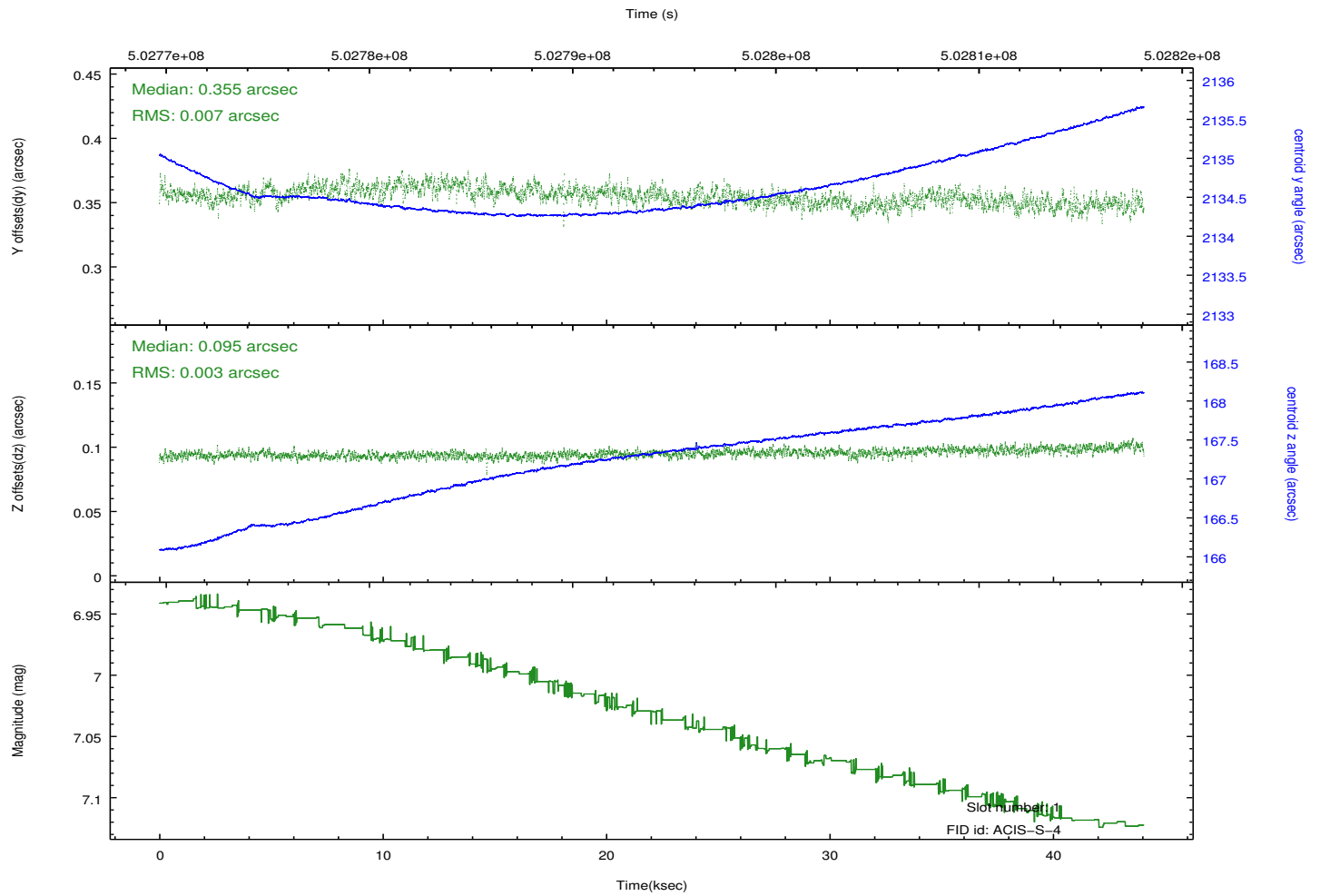
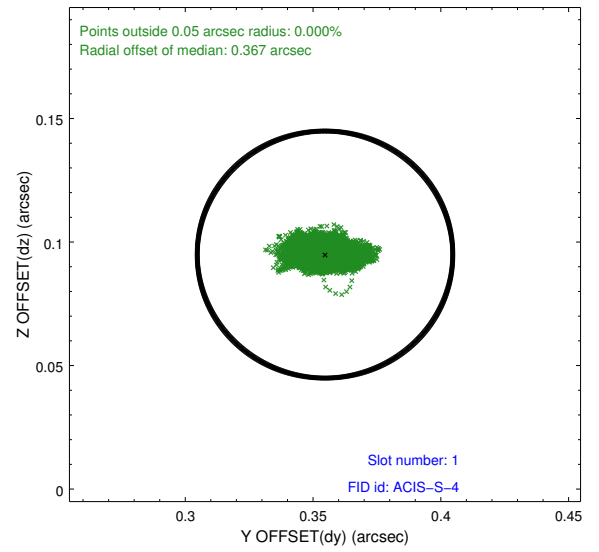
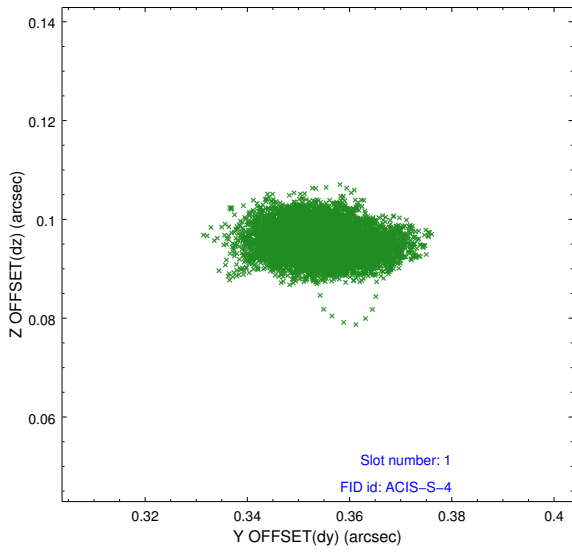


2.5 FID Slots

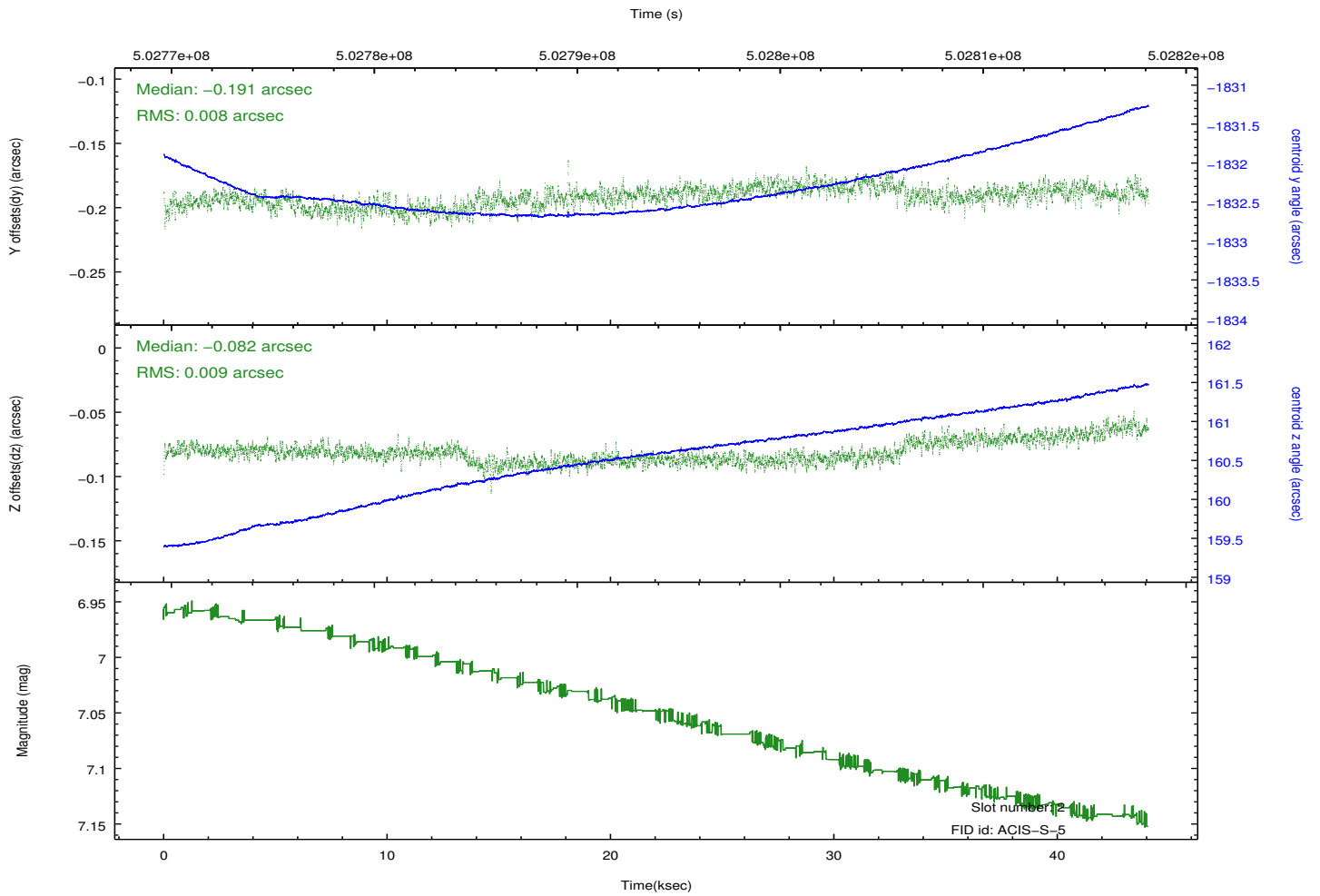
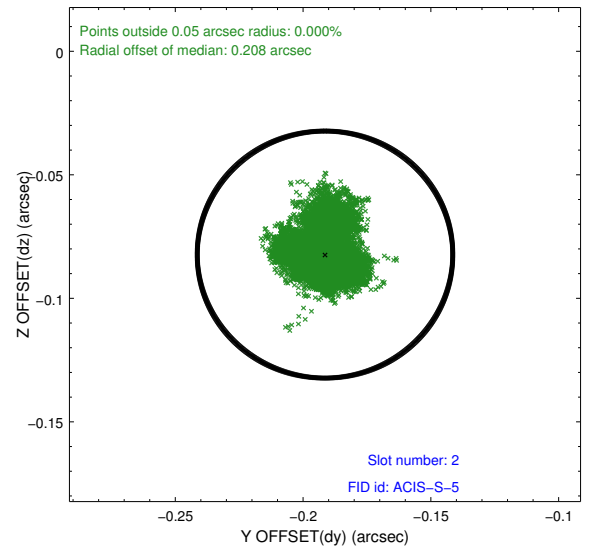
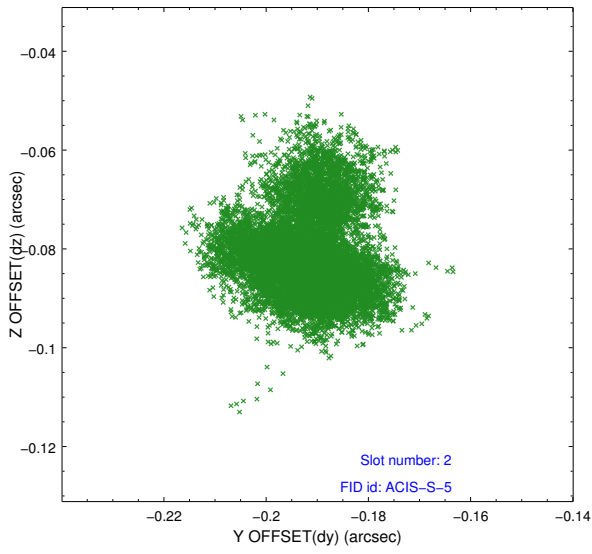
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.976600338221

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.