

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14475 - L2 Version 2
Chandra X-Ray Center

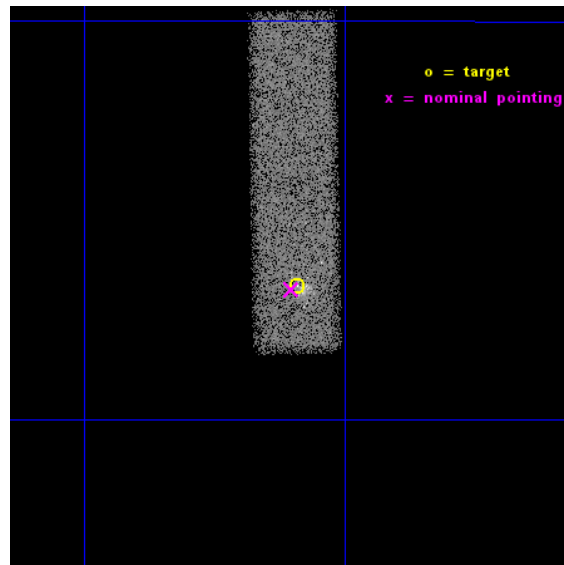
L2 Processing Date : Nov 27 2014

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1 Front

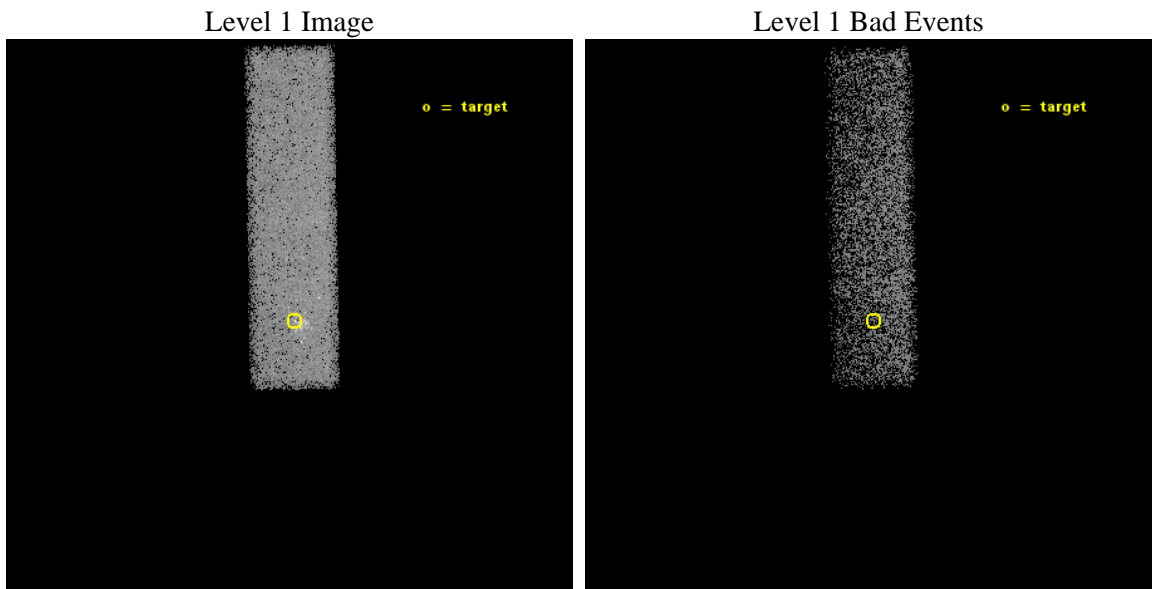
seq_num	401437	Sequence number
obs_id	14475	Observation id
title	Crust cooling of accretion heated neutron stars	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	Swift J174805.3-244637	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.022554	Observer's specified target RA [deg]
dec_targ	-24.777131	Observer's specified target Dec [deg]
ra_nom	267.02532890319	Nominal RA [deg]
dec_nom	-24.778794677593	Nominal Dec [deg]
roll_nom	269.04151061297	Nominal Roll [deg]
revision	2	Processing version of data
ontime	32064.00047785	Sum of GTIs [s]
livetime	30499.382172406	Livetime [s]
ontime7	32064.00047785	Sum of GTIs [s]
l2events	31105	Number of level 2 events



2 OBI

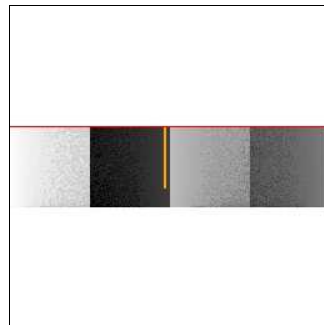
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	32064.00047785	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	32064.00047785	Sum of GTIs [s]
date	2014-11-27T04:28:58	Date and time of file creation	l1events	62529	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

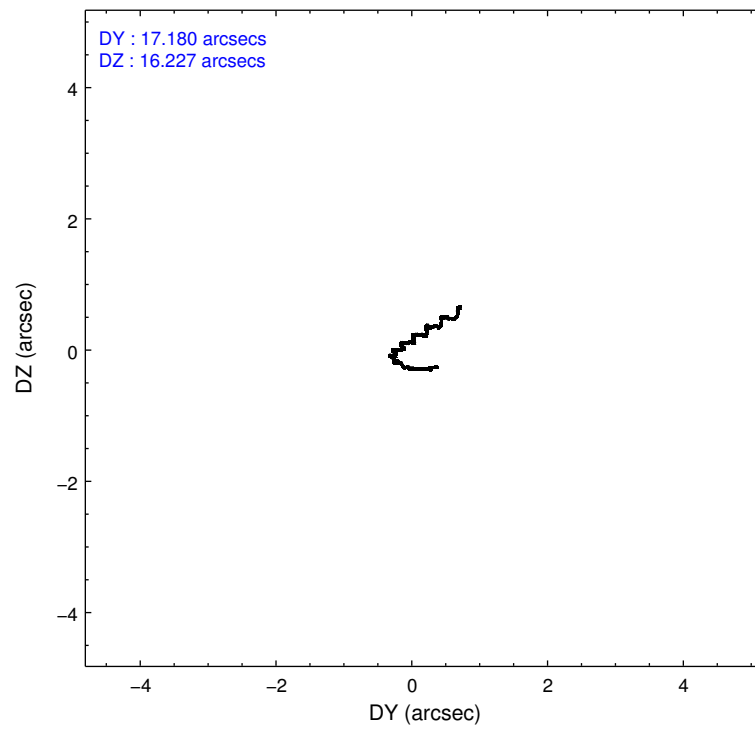
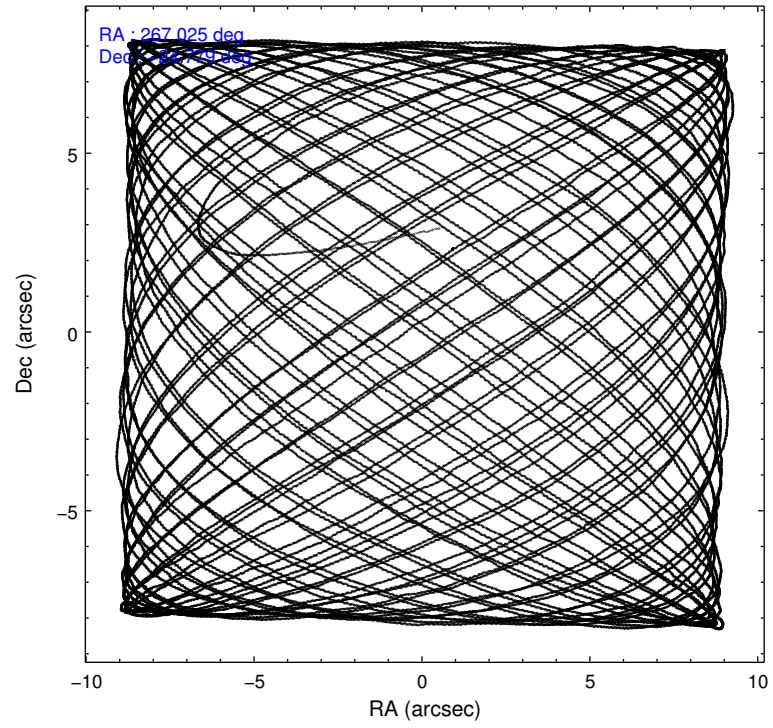
	ccd 7
level 1 events	62529
rejected events	30503
rejected %	48%

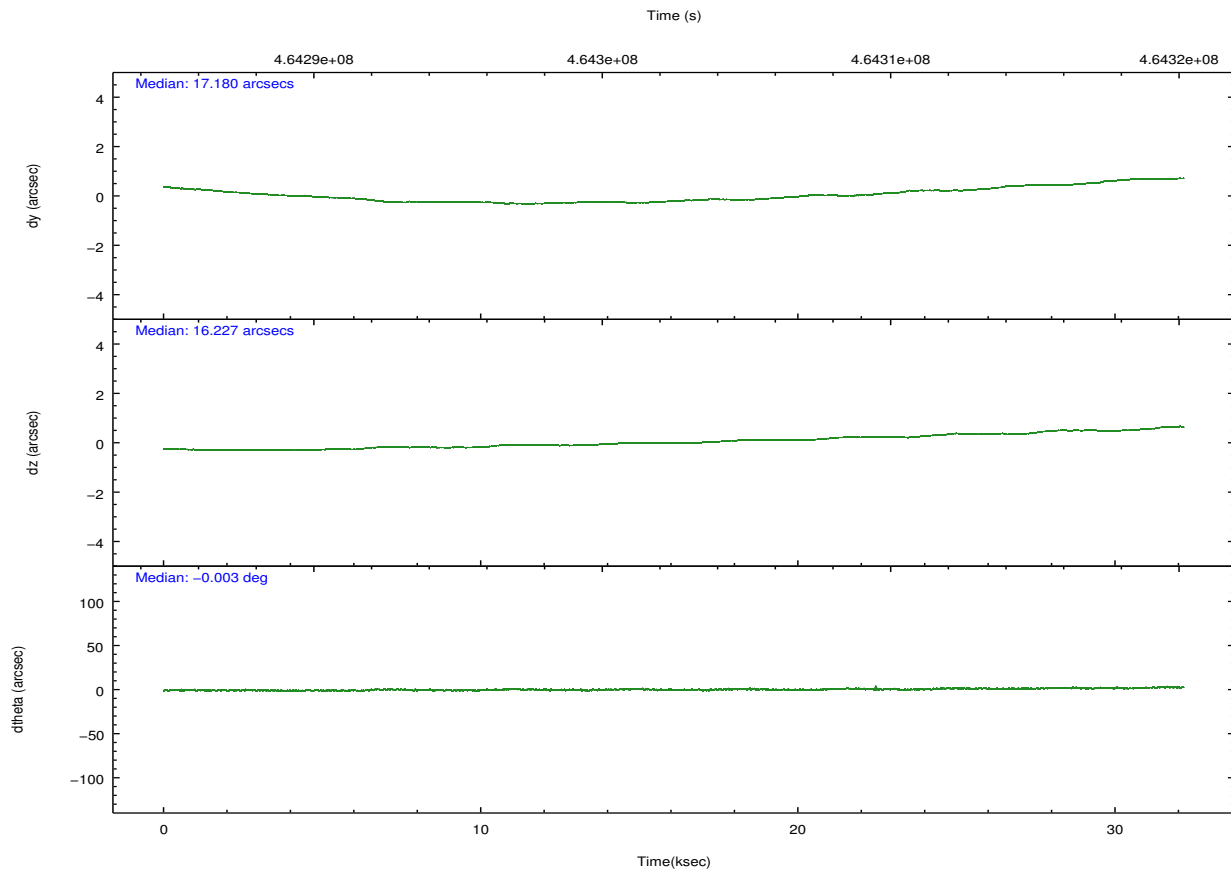
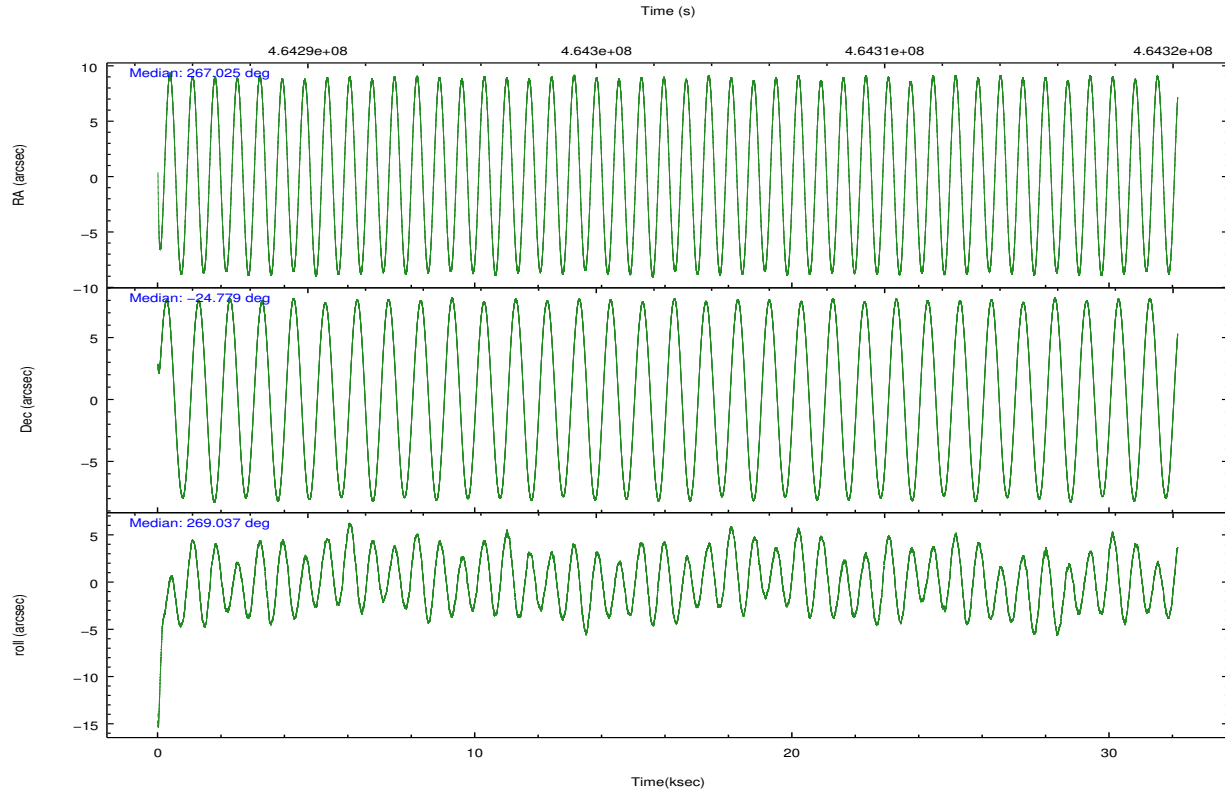
	ccd 7
grade 0 events	3687
	5%
grade 1 events	76
	0%
grade 2 events	6668
	10%
grade 3 events	3611
	5%
grade 4 events	3613
	5%
grade 5 events	6381
	10%
grade 6 events	14449
	23%
grade 7 events	24044
	38%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	267.010362	267.0253289031915	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-24.755080	-24.77879467759252	Subarray start row	384	384
[deg] Pointing Roll	268.878617	269.0415106129664	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	464286566.184000	464285491.63956			
Observation start date	2012-09-17T16:28:19	2012-09-17T16:11:31			
[s] Observation end time (MET)	464318566.184000	464319376.09137			
Observation end date	2012-09-18T01:21:39	2012-09-18T01:36:16			
Read mode	TIMED	TIMED			

2.3 Aspect



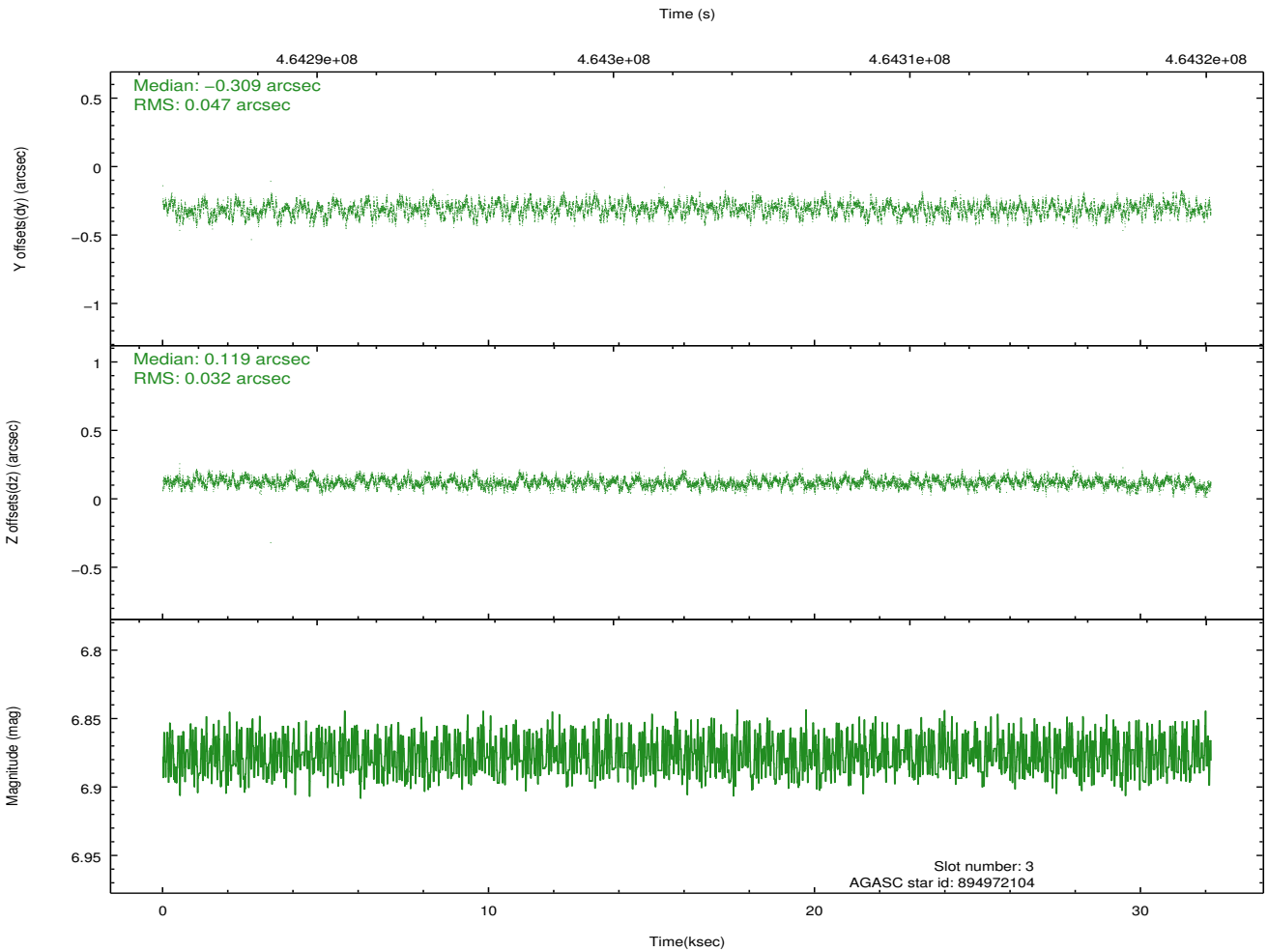
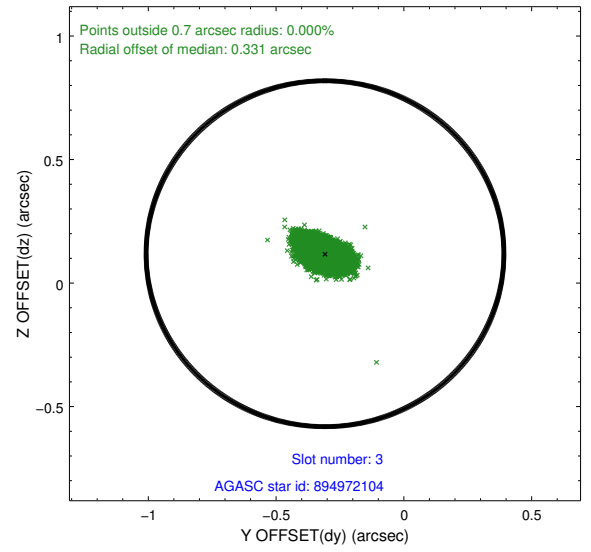
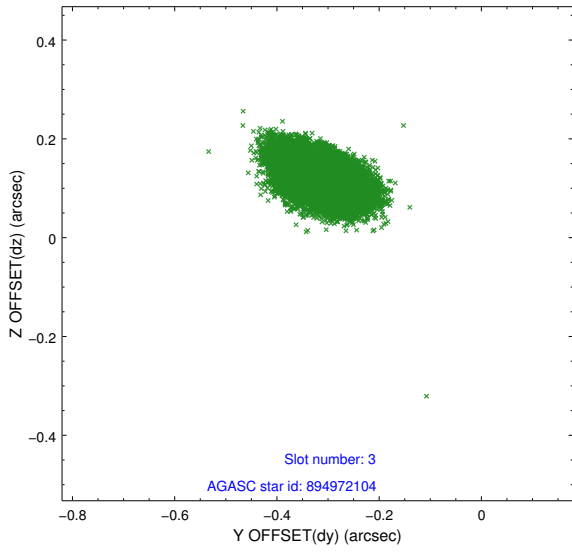


Slot Statistics

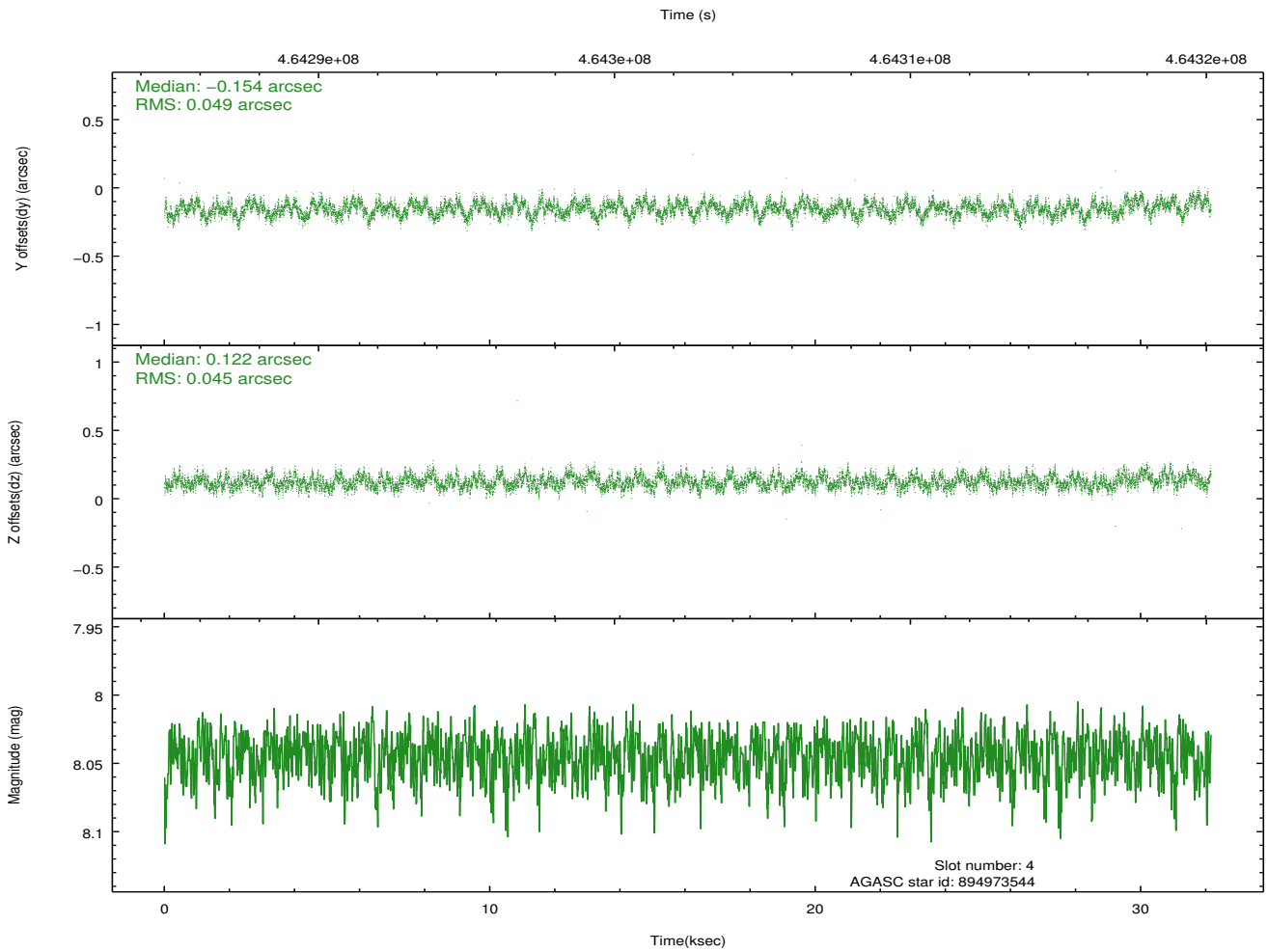
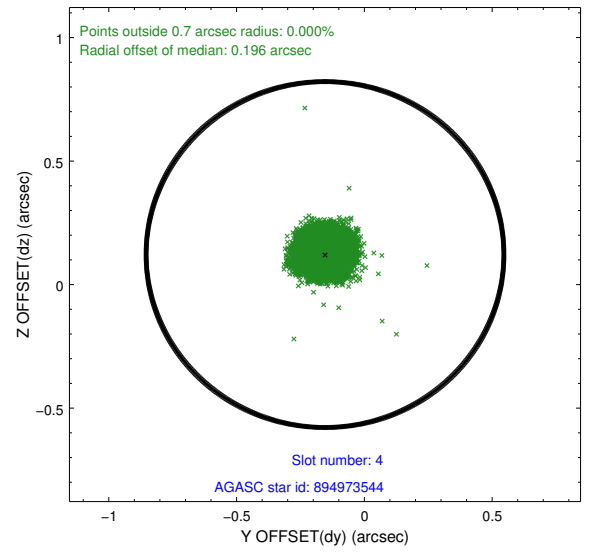
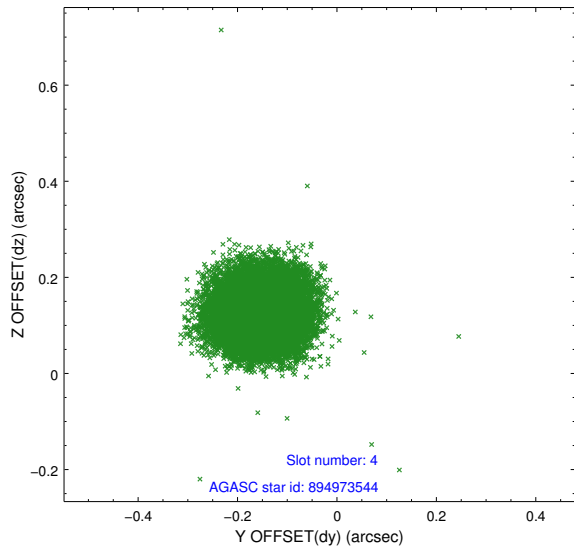
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	7843	-0.124	-0.083	0.006	0.012	0.000000	0.000000	-770.42	-1737.77
1	FID		ACIS-S-4	7.02	7843	0.168	0.053	0.007	0.012	0.000000	0.000000	2143.16	170.74
2	FID		ACIS-S-6	7.14	7842	-0.071	0.037	0.008	0.013	0.000000	0.000000	391.74	808.21
3	GUIDE	used	894972104	6.88	15686	-0.309	0.119	0.059	0.100	267.489380	-24.207054	-2000.26	1533.56
4	GUIDE	used	894973544	8.04	15684	-0.154	0.122	0.072	0.112	266.605572	-24.141151	-2181.38	-1372.74
5	GUIDE	used	895485920	8.66	15682	0.288	0.104	0.085	0.132	266.932426	-25.188840	1566.75	-222.92
6	GUIDE	used	895489704	8.79	15680	0.279	-0.337	0.096	0.164	266.328076	-25.361339	2232.98	-2176.09
7	GUIDE	used	895486672	9.01	15669	-0.106	-0.010	0.114	0.183	267.522168	-25.216127	1630.72	1699.14

2.4 Star Slots

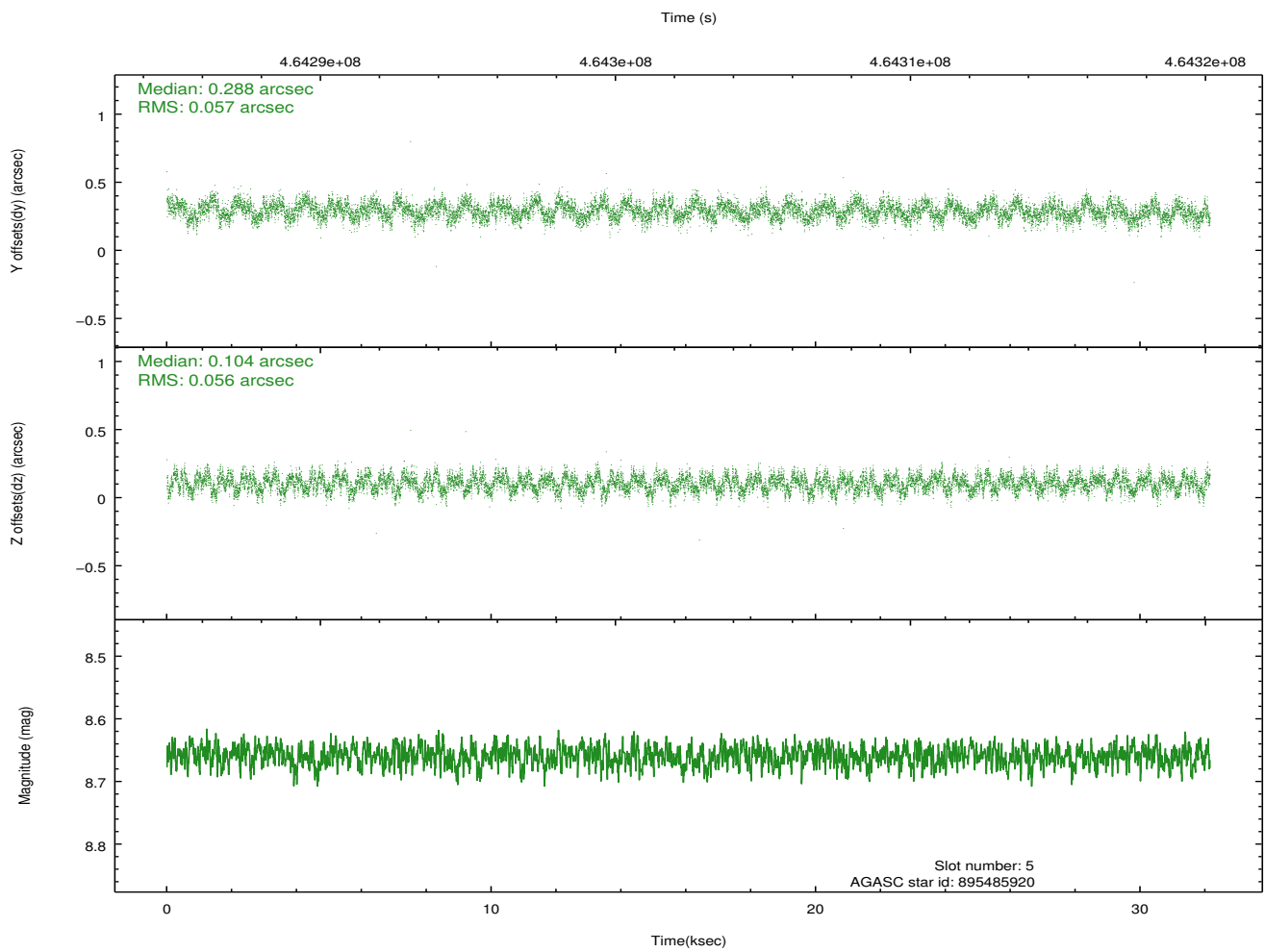
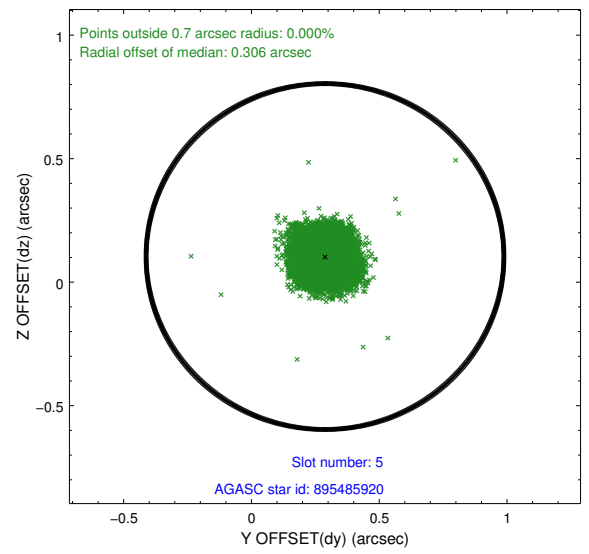
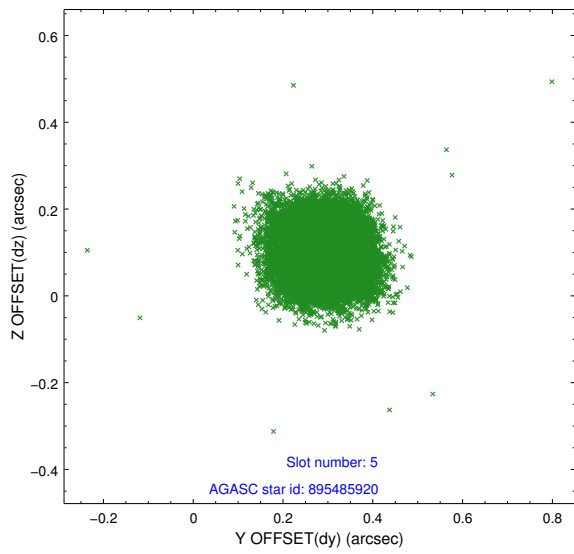
2.4.1 Slot 3



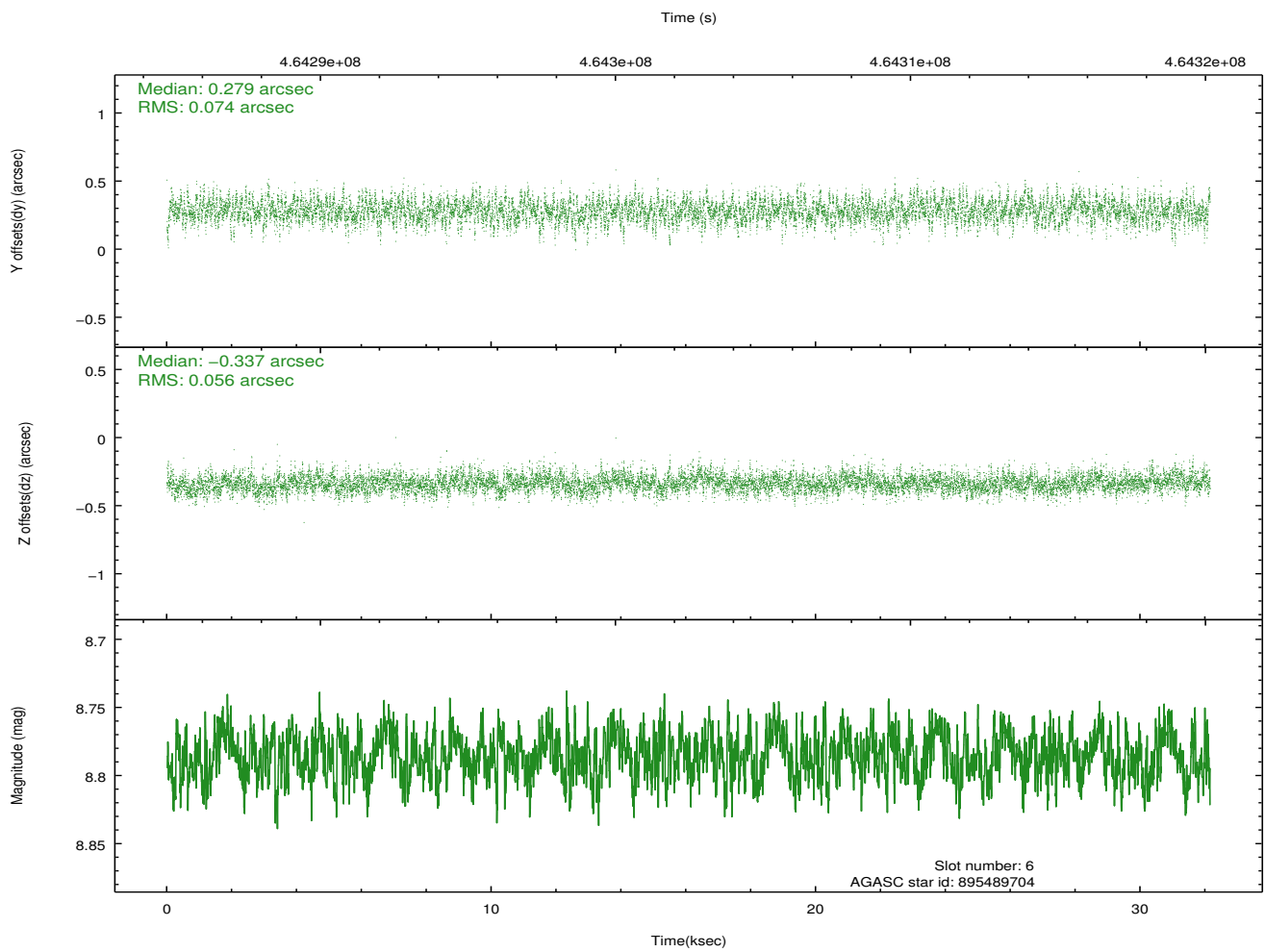
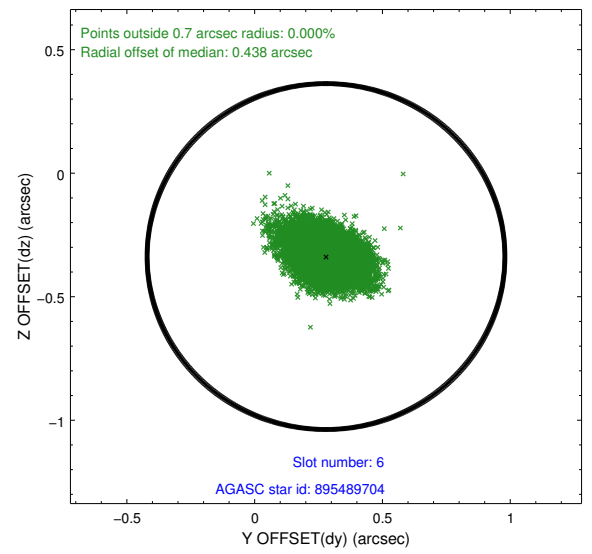
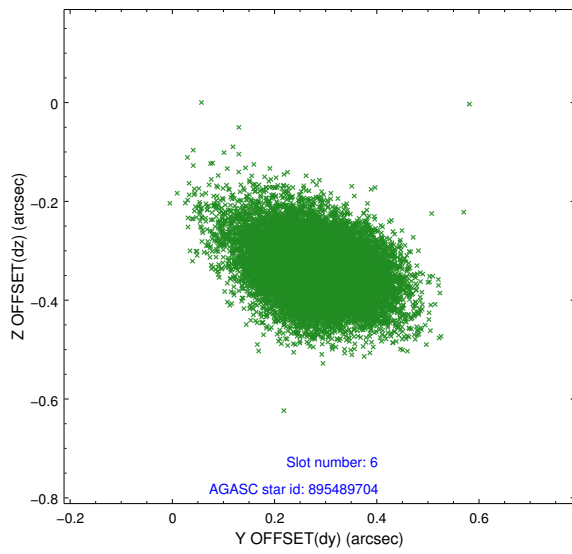
2.4.2 Slot 4



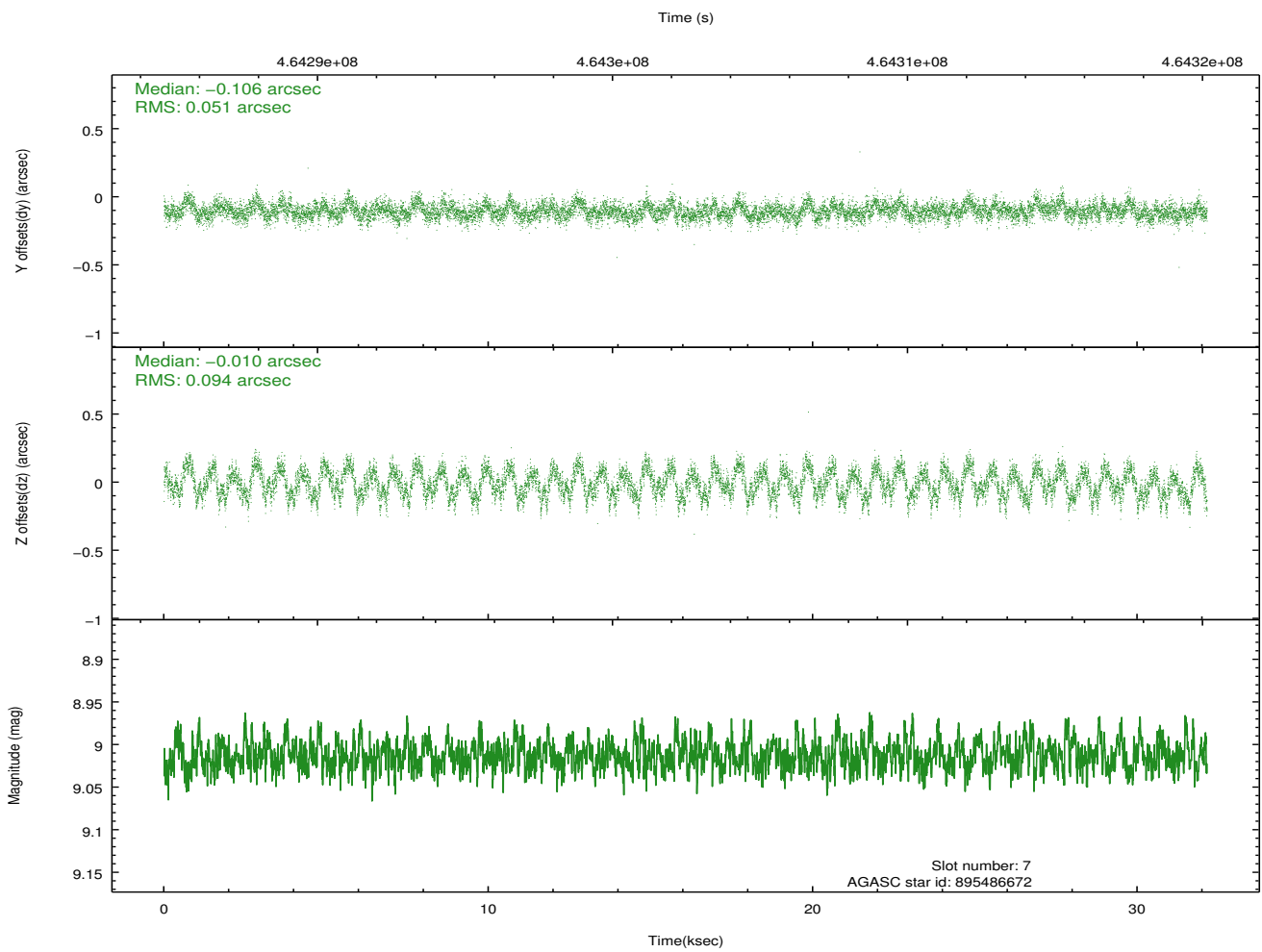
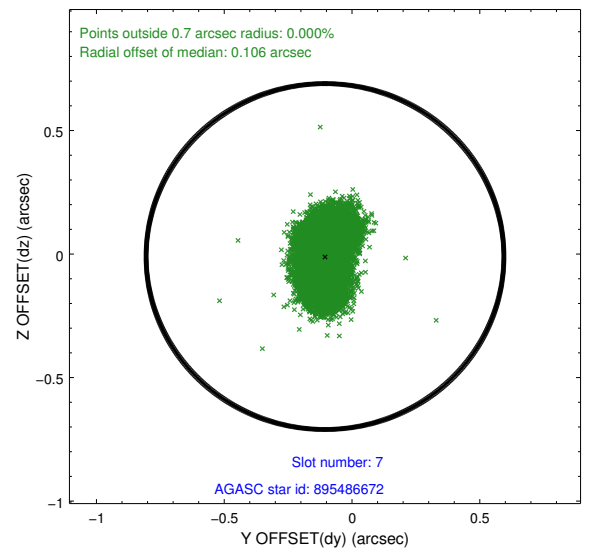
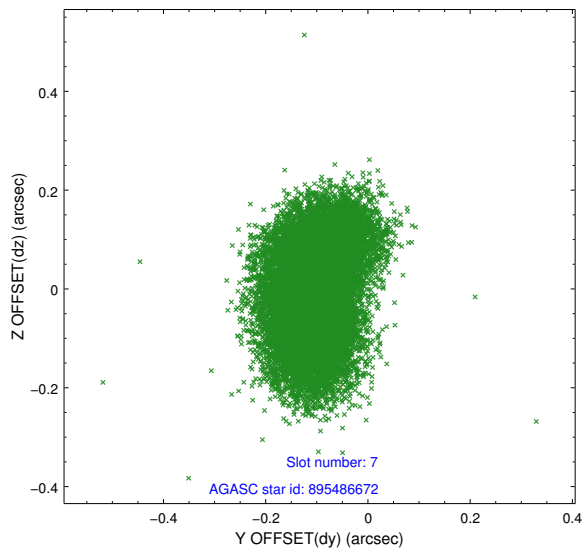
2.4.3 Slot 5



2.4.4 Slot 6

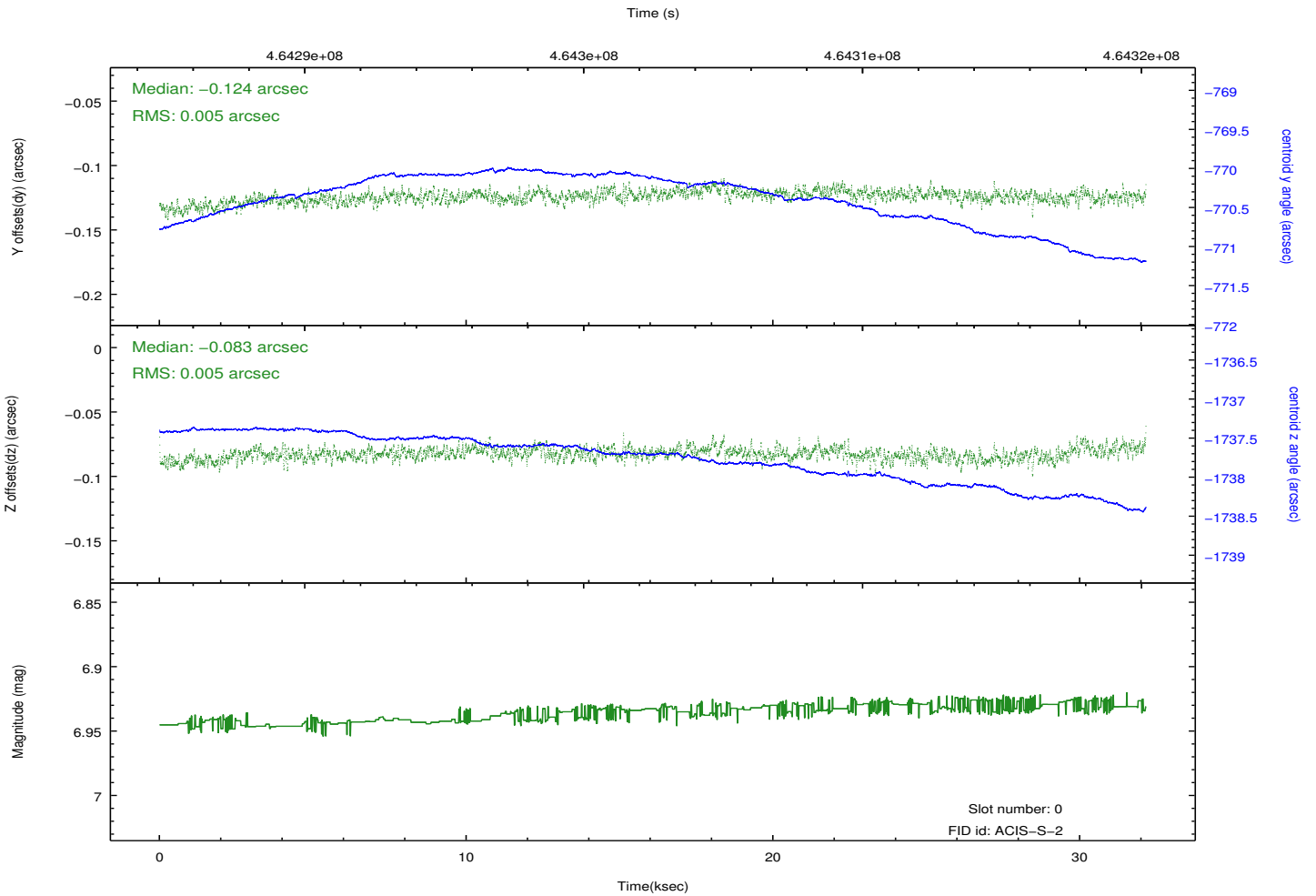
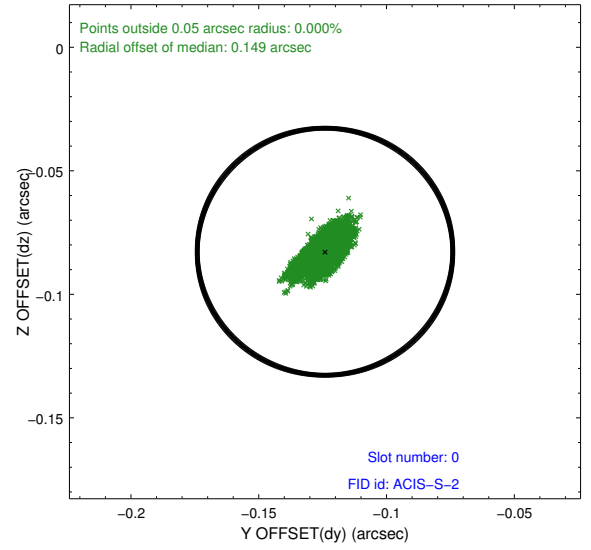
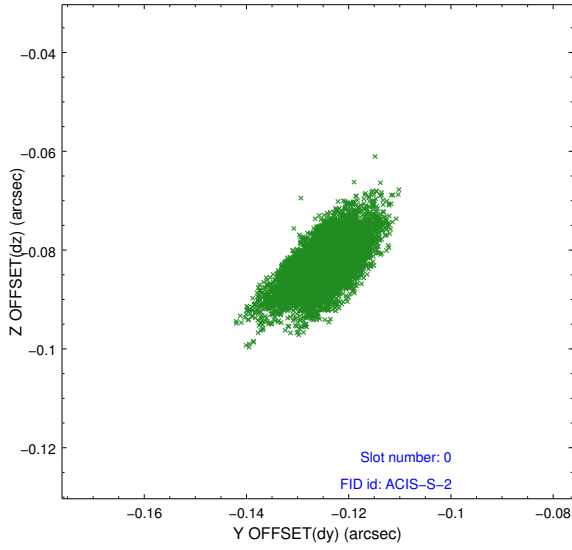


2.4.5 Slot 7

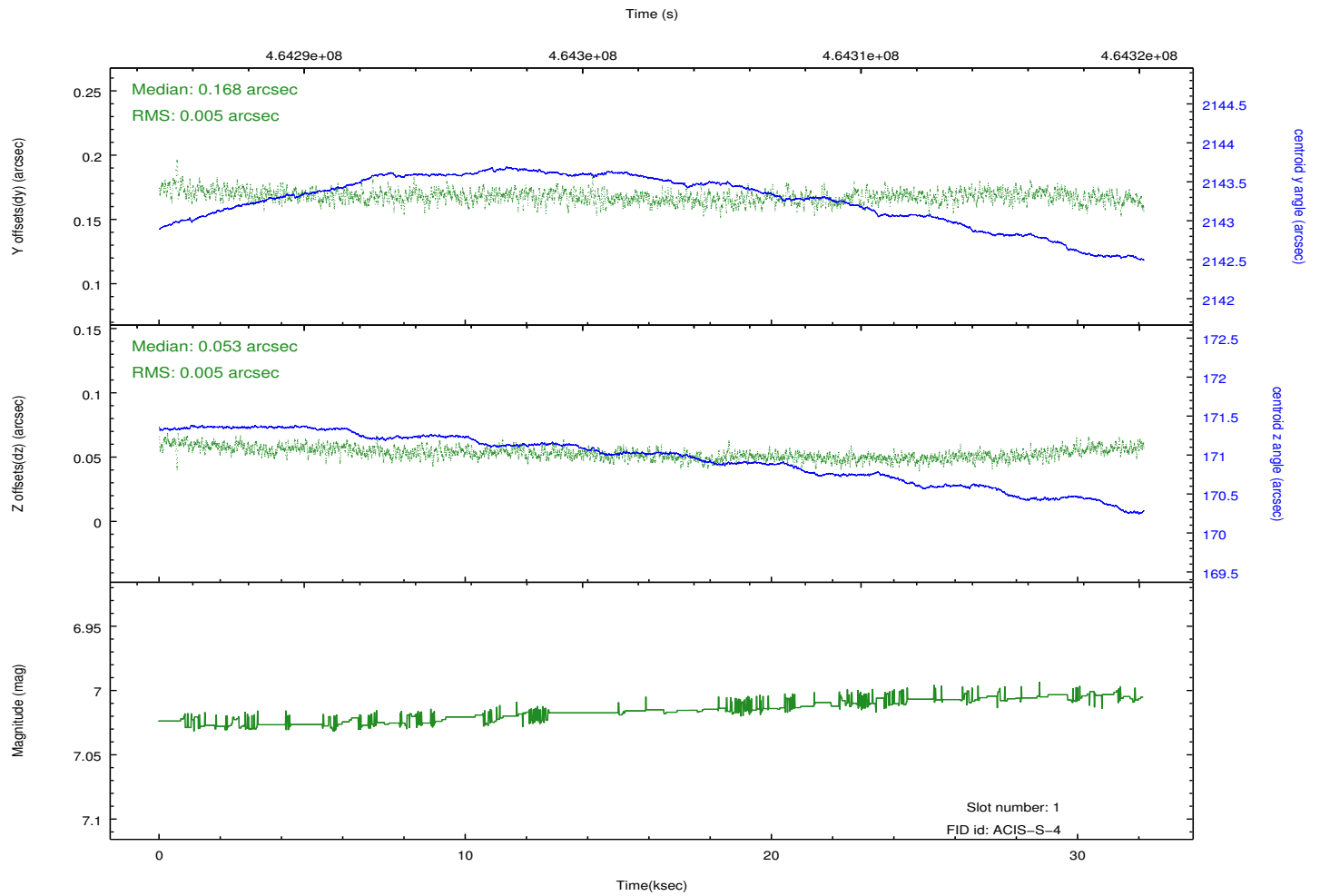
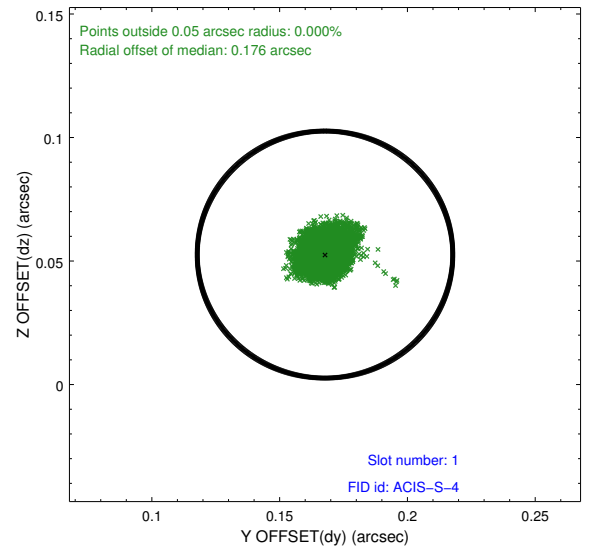
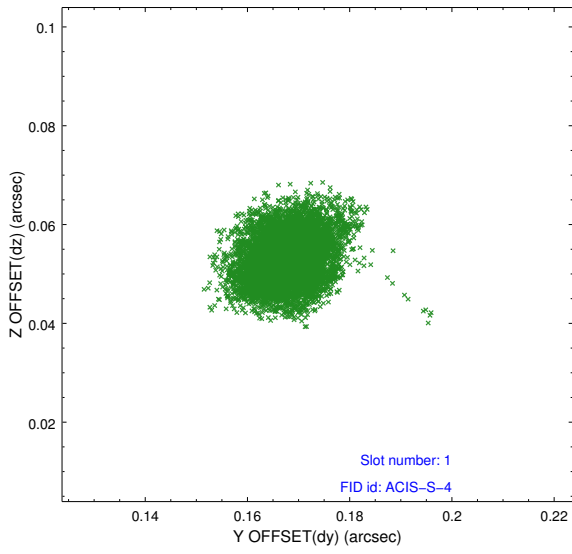


2.5 FID Slots

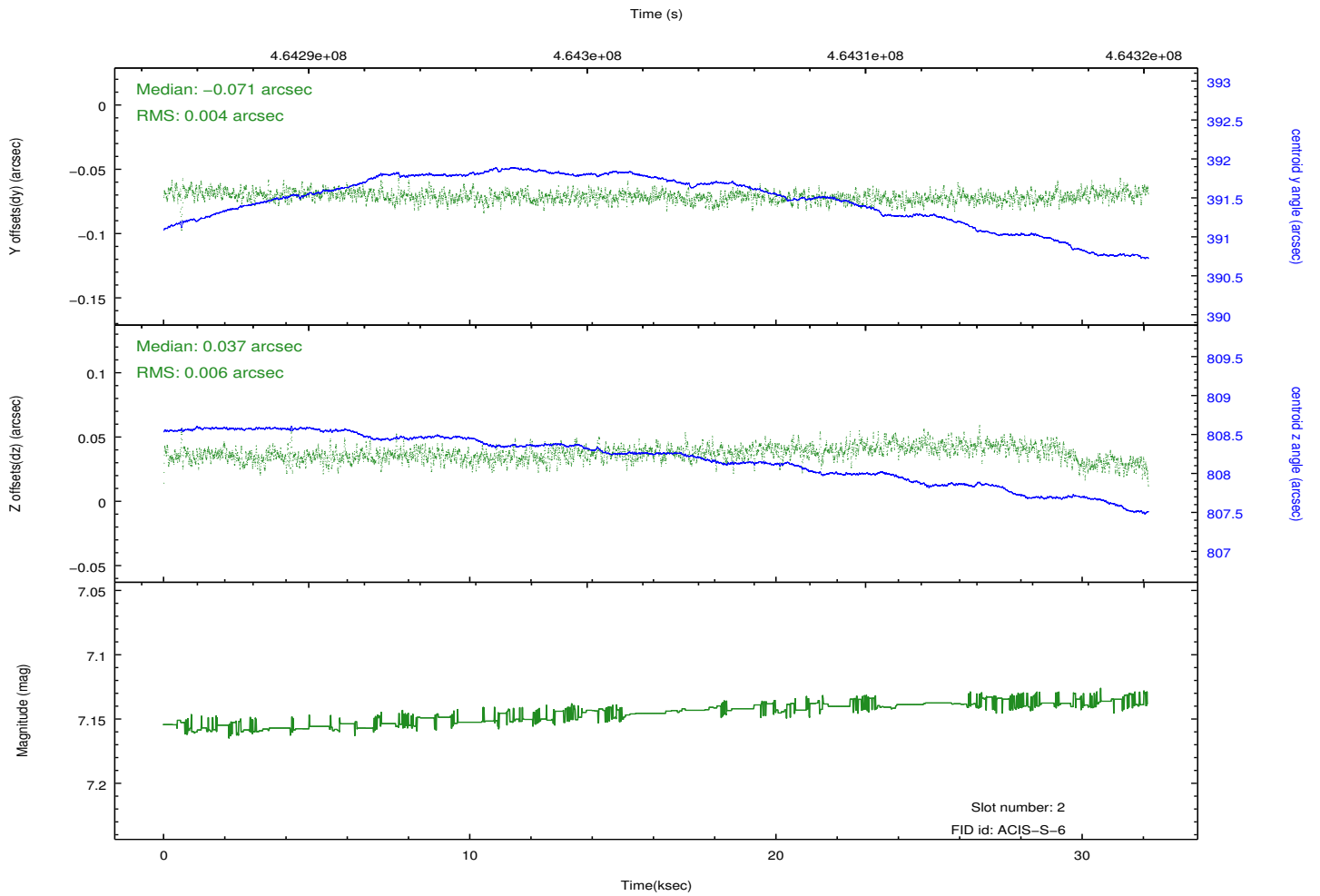
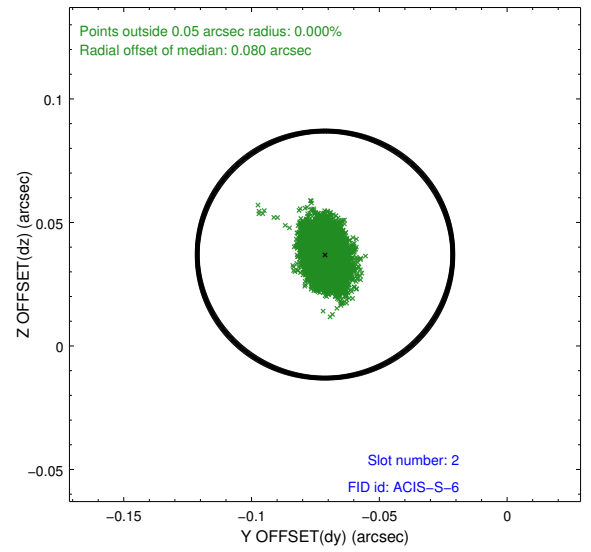
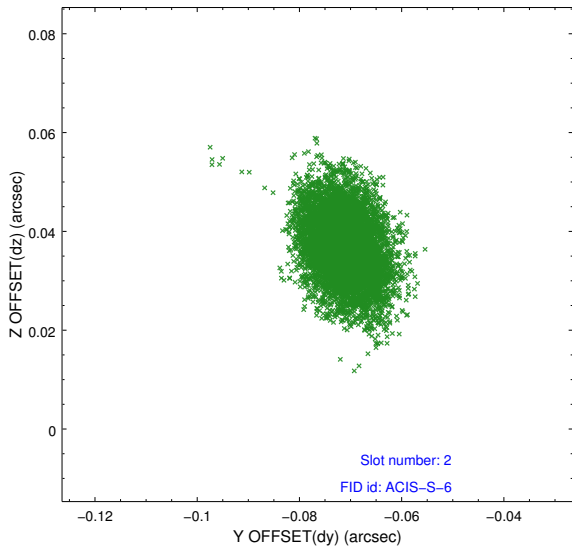
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.06400047785

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.