

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14477 - L2 Version 2
Chandra X-Ray Center

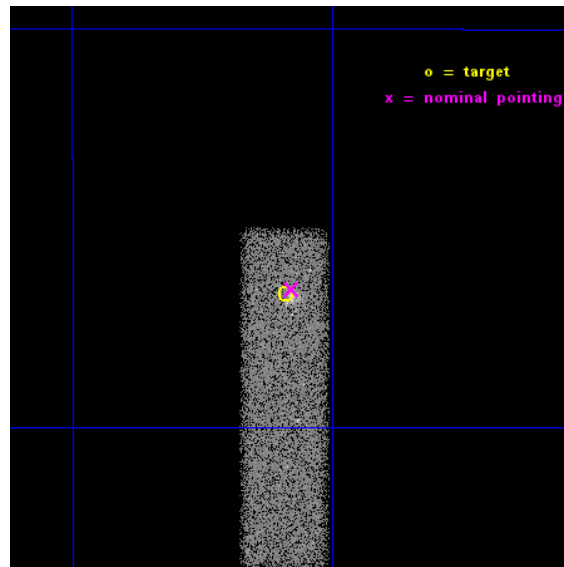
L2 Processing Date : Dec 1 2014

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1 Front

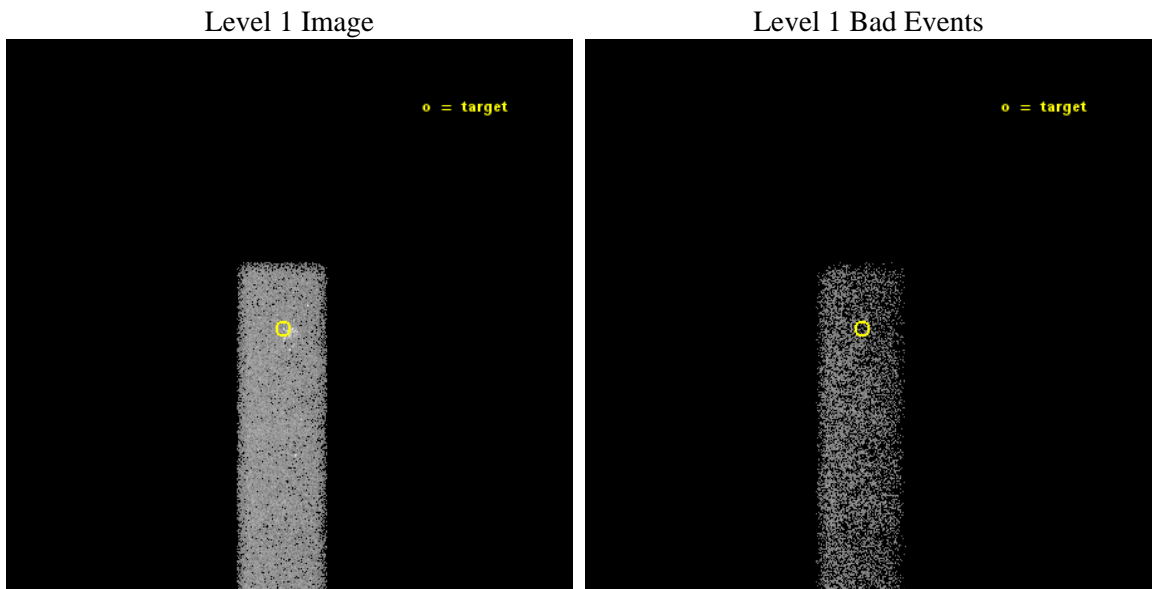
seq_num	401439	Sequence number
obs_id	14477	Observation id
title	Crust cooling of accretion heated neutron stars	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	Swift J174805.3-244637	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.022554	Observer's specified target RA [deg]
dec_targ	-24.777131	Observer's specified target Dec [deg]
ra_nom	267.01973331914	Nominal RA [deg]
dec_nom	-24.775506166154	Nominal Dec [deg]
roll_nom	90.13502235427	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30064.000448048	Sum of GTIs [s]
livetime	28596.97559978	Livetime [s]
ontime7	30064.000448048	Sum of GTIs [s]
l2events	30100	Number of level 2 events



2 OBI

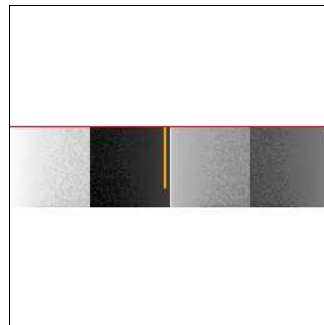
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	30064.000448048	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	30064.000448048	Sum of GTIs [s]
date	2014-12-01T08:47:12	Date and time of file creation	l1events	60563	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

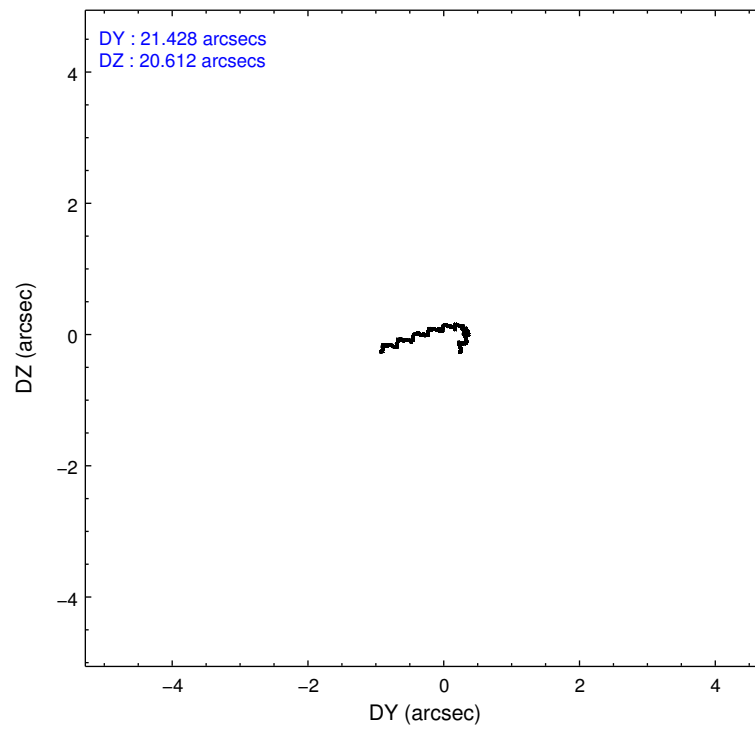
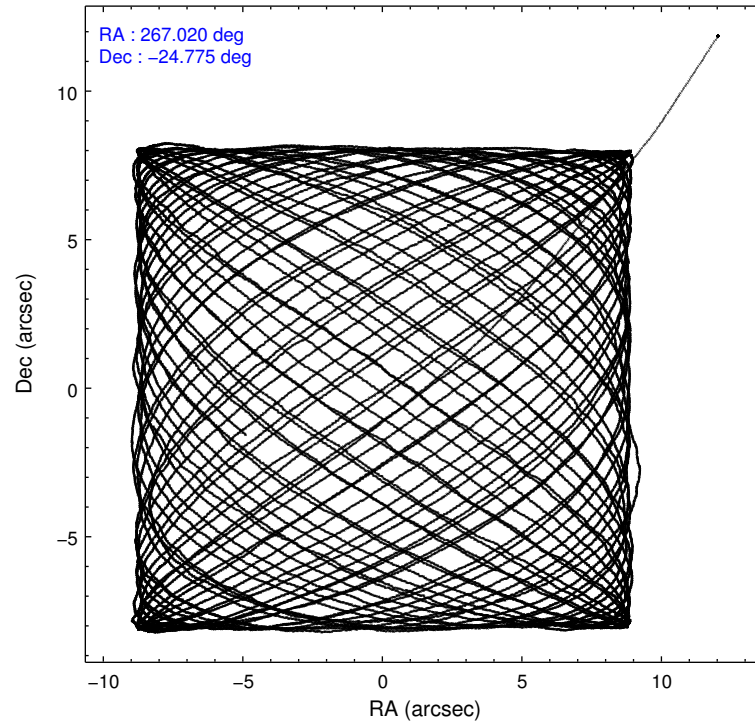
	ccd 7
level 1 events	60563
rejected events	29502
rejected %	48%

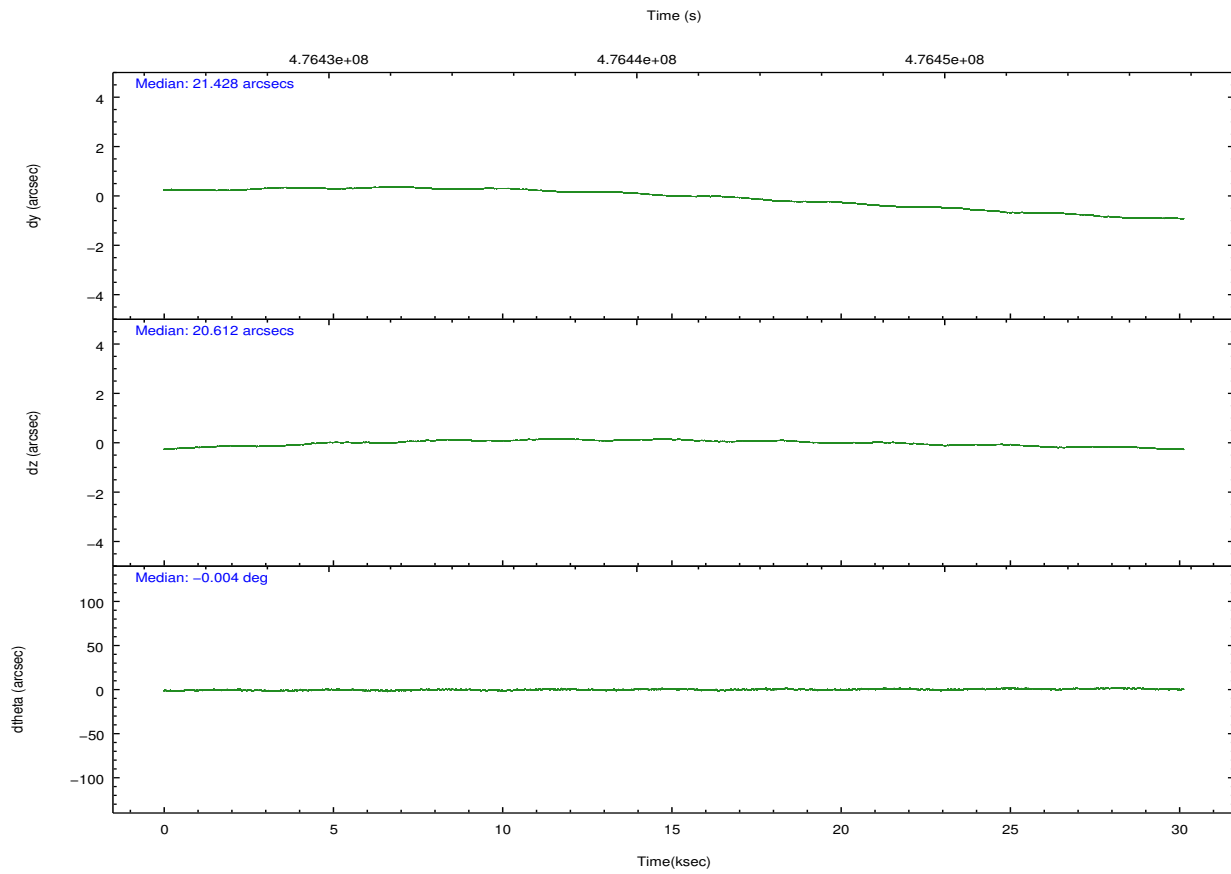
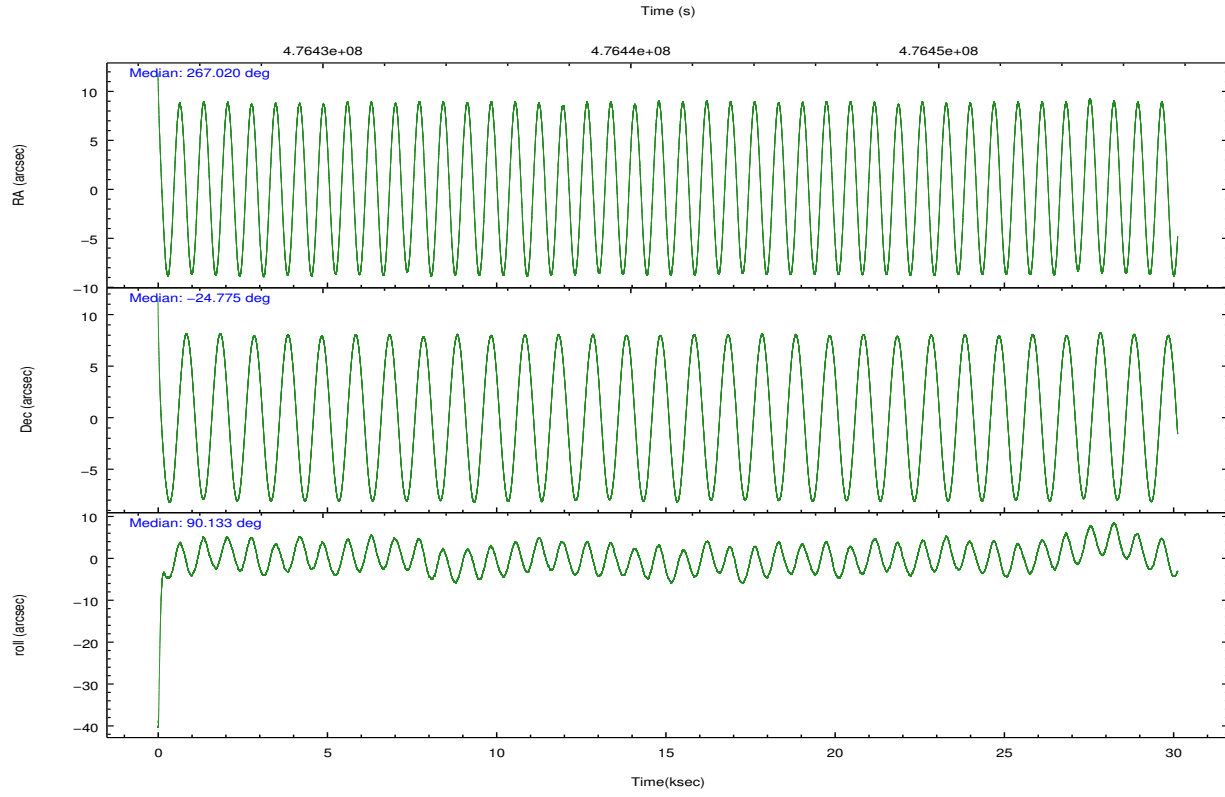
	ccd 7
grade 0 events	3724
	6%
grade 1 events	84
	0%
grade 2 events	6414
	10%
grade 3 events	3528
	5%
grade 4 events	3407
	5%
grade 5 events	6034
	9%
grade 6 events	13988
	23%
grade 7 events	23384
	38%

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	267.035219	267.019733319135	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-24.798970	-24.77550616615407	Subarray start row	384	384
[deg] Pointing Roll	89.984905	90.13502235426958	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)	476426263.184000	476425085.94268			
Observation start date	2013-02-05T04:36:36	2013-02-05T04:18:05			
[s] Observation end time (MET)	476456263.184000	476456955.2444			
Observation end date	2013-02-05T12:56:36	2013-02-05T13:09:15			
Read mode	TIMED	TIMED			

2.3 Aspect



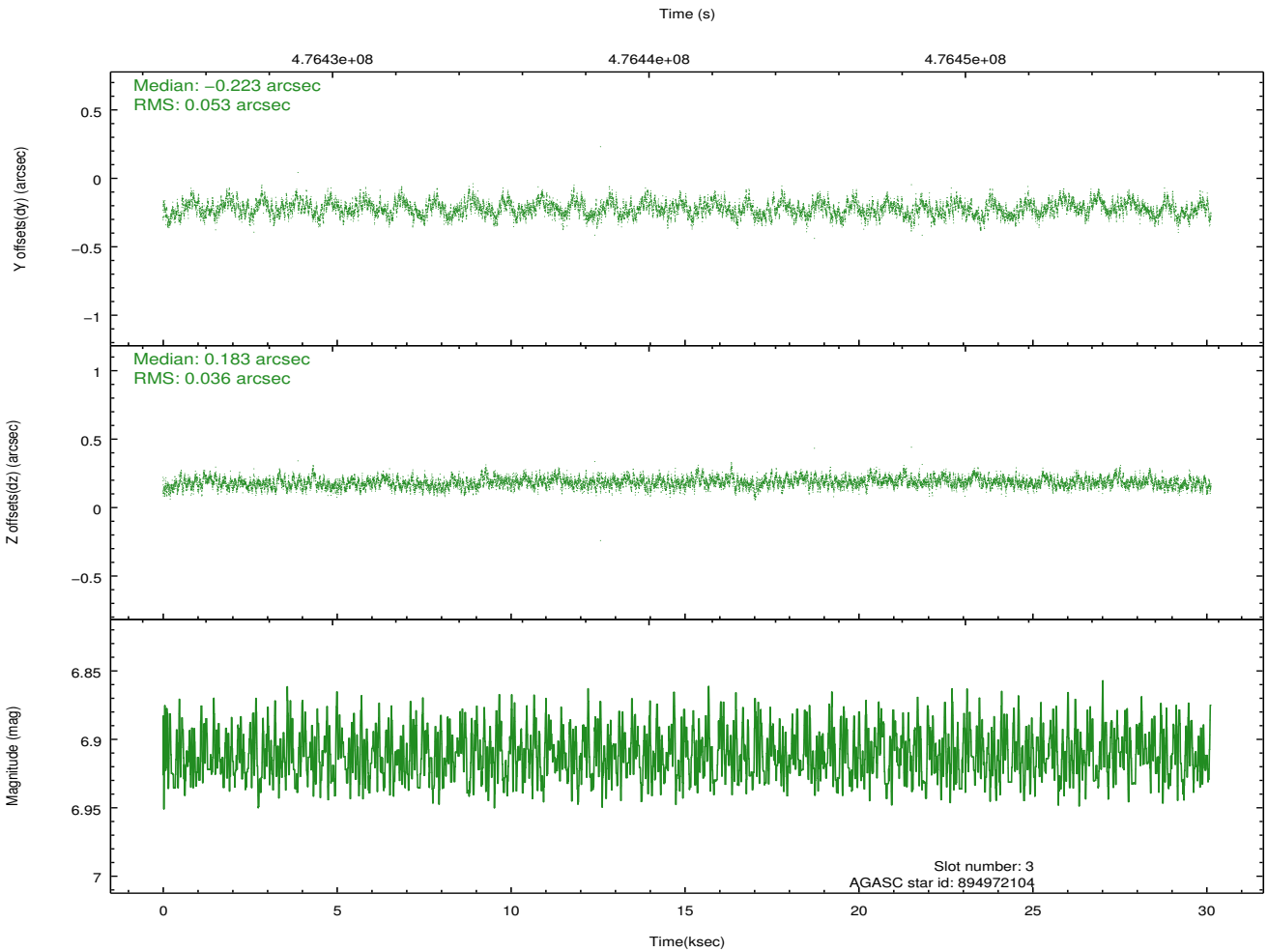
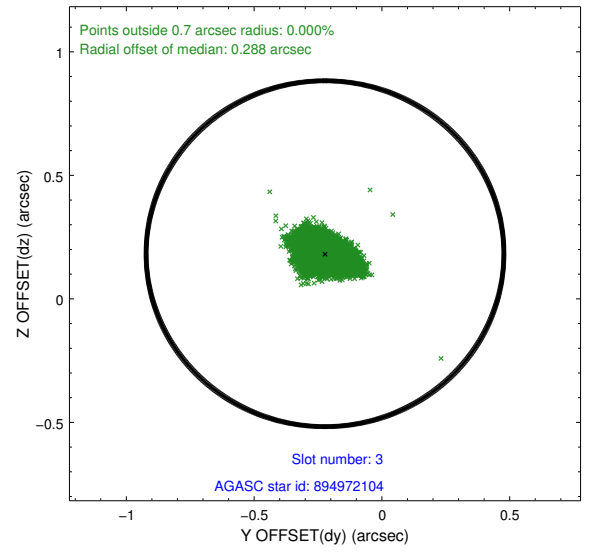
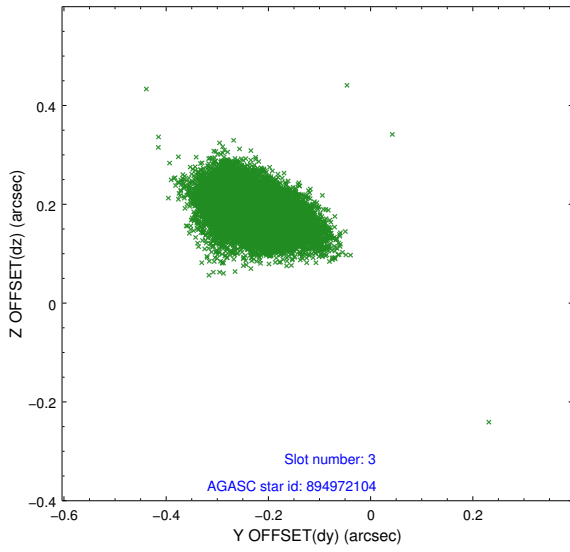


Slot Statistics

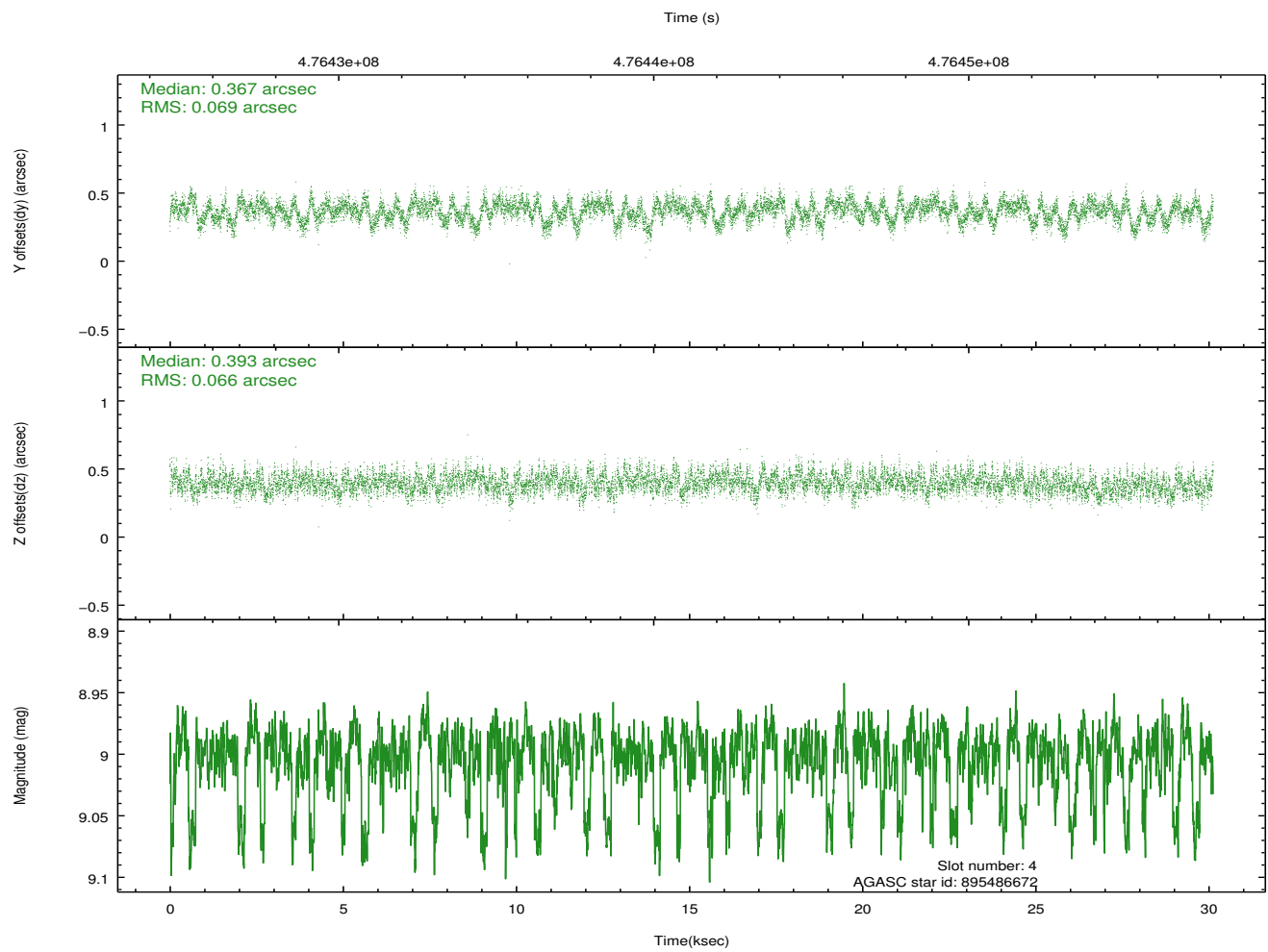
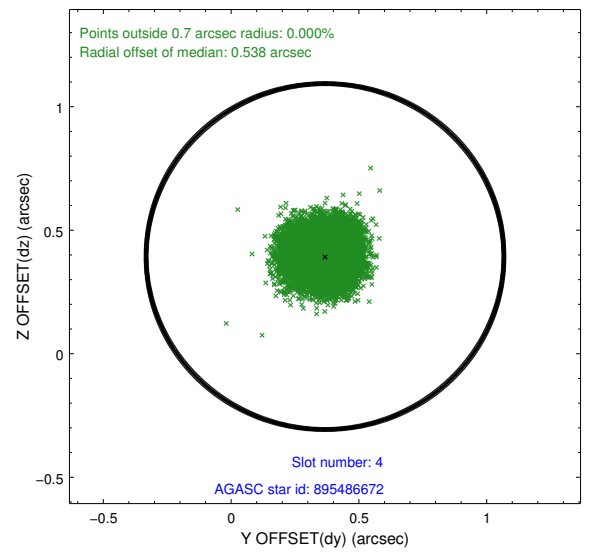
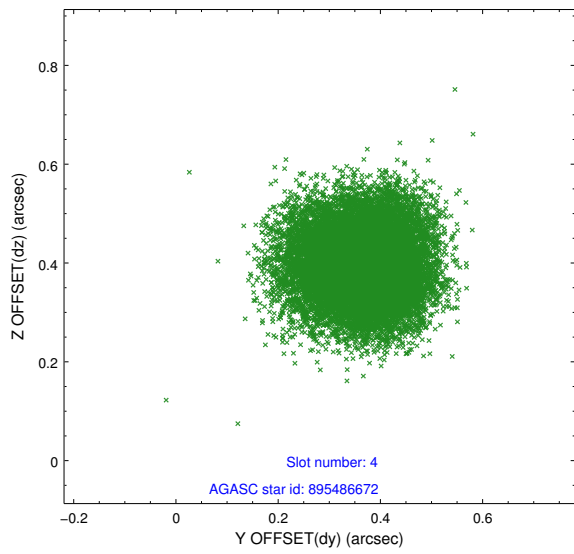
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	7348	-0.108	-0.002	0.011	0.016	0.000000	0.000000	-774.56	-1742.12
1	FID		ACIS-S-4	7.02	7349	0.205	0.053	0.009	0.016	0.000000	0.000000	2138.99	166.35
2	FID		ACIS-S-5	7.05	7349	-0.128	-0.042	0.012	0.021	0.000000	0.000000	-1827.34	159.99
3	GUIDE	used	894972104	6.91	14697	-0.223	0.183	0.067	0.115	267.489380	-24.207054	2128.44	-1489.55
4	GUIDE	used	895486672	9.00	14626	0.367	0.393	0.103	0.162	267.522168	-25.216127	-1503.95	-1585.70
5	GUIDE	used	895489704	8.78	14687	0.180	-0.204	0.085	0.143	266.328076	-25.361339	-2032.01	2299.49
6	GUIDE	used	894973544	8.06	14660	-0.442	-0.308	0.069	0.112	266.605572	-24.141151	2364.89	1412.52
7	GUIDE	used	895485920	8.66	14693	0.125	-0.068	0.103	0.171	266.932426	-25.188840	-1403.29	334.66

2.4 Star Slots

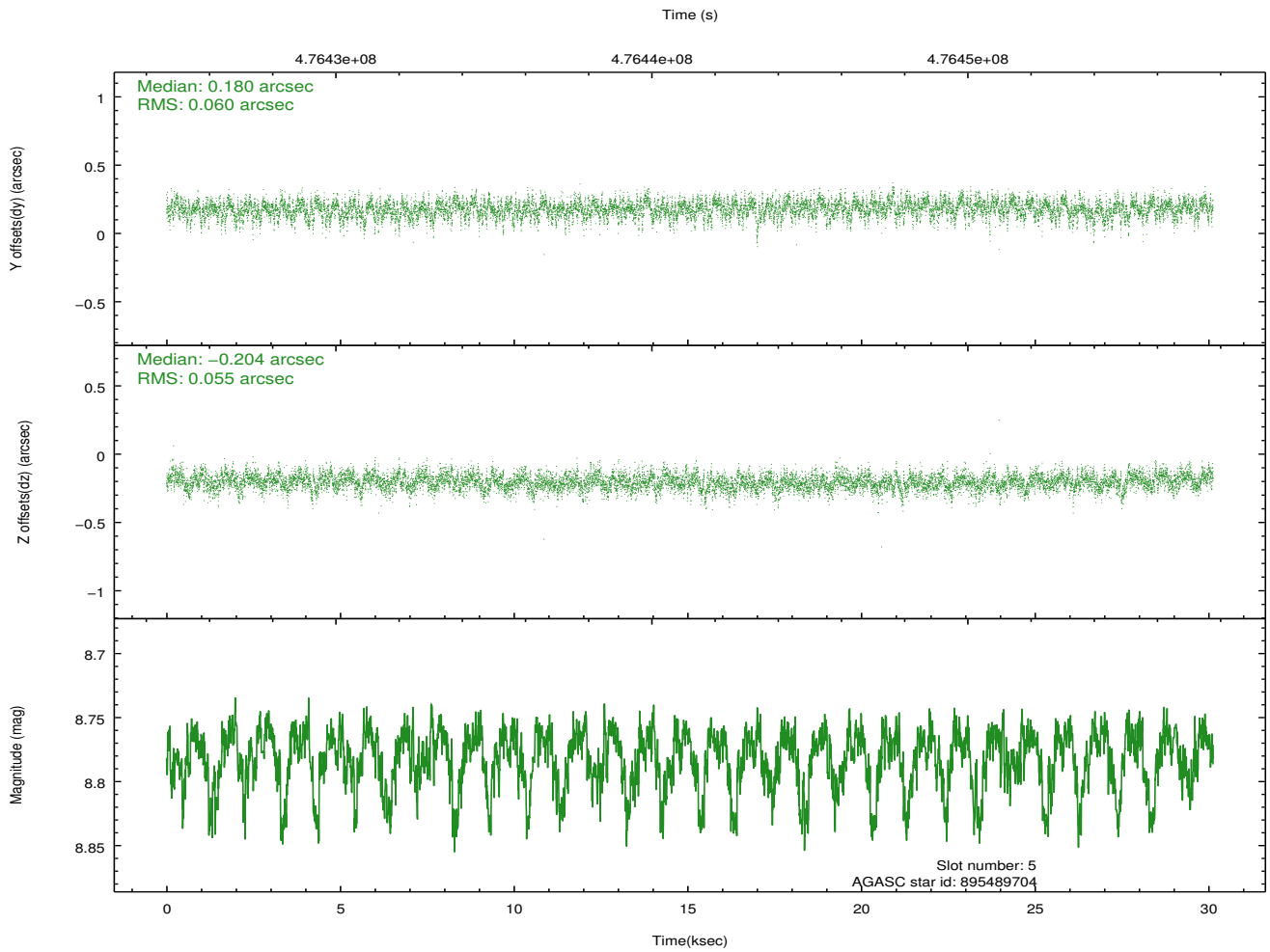
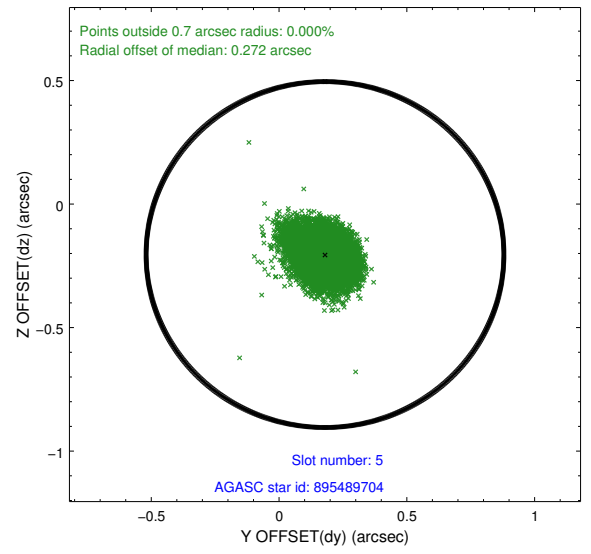
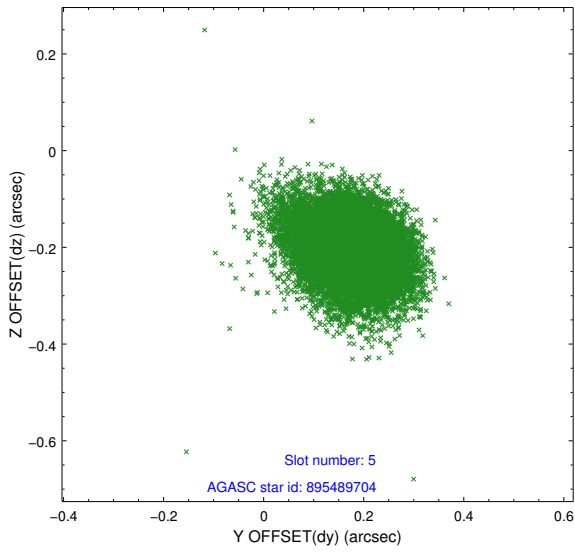
2.4.1 Slot 3



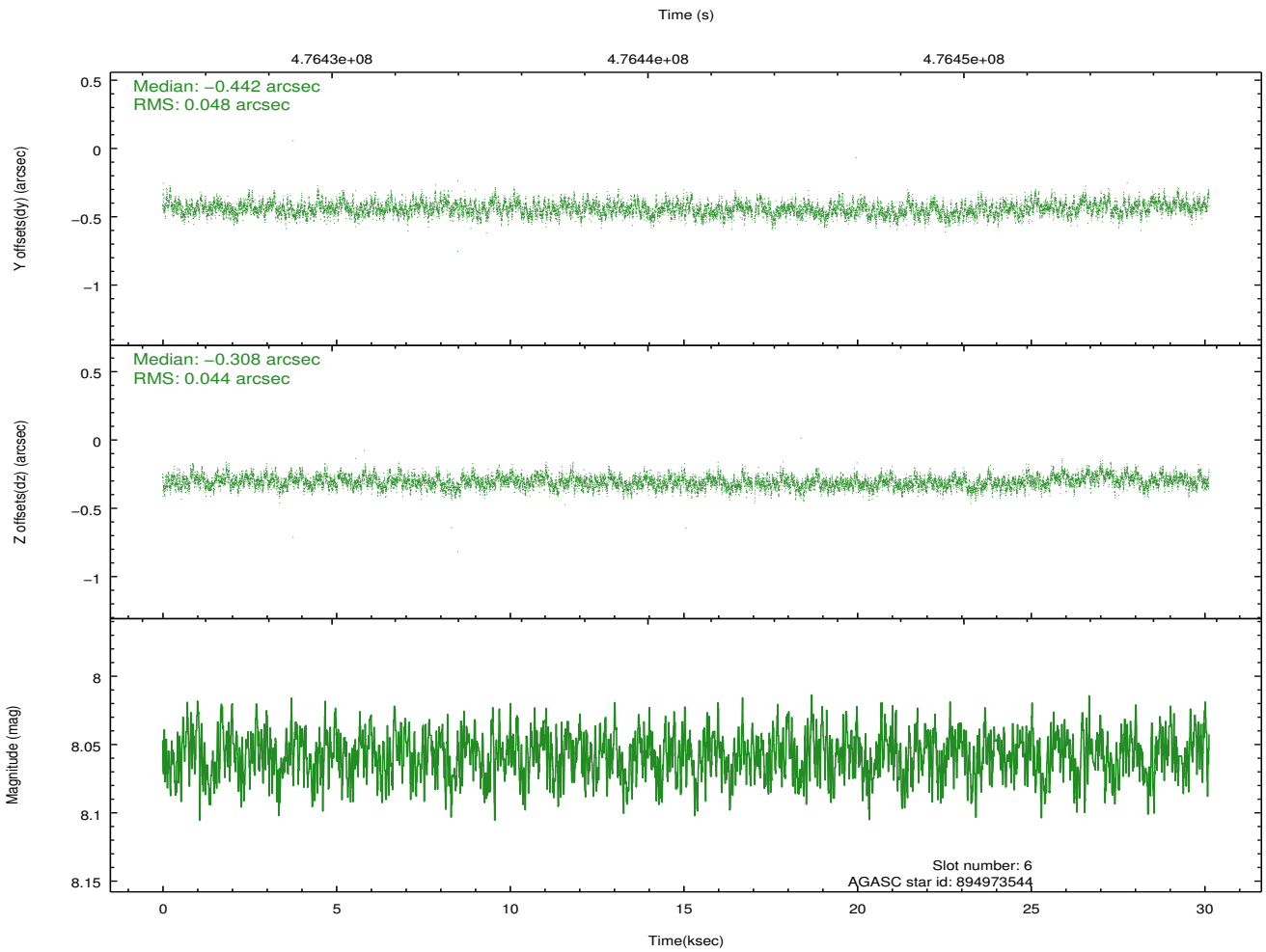
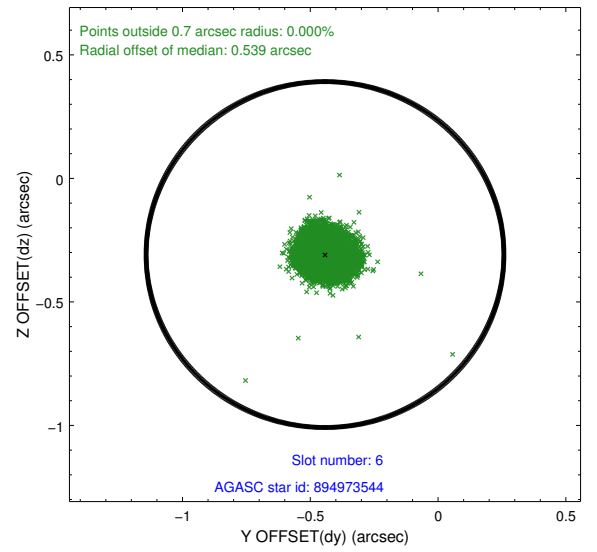
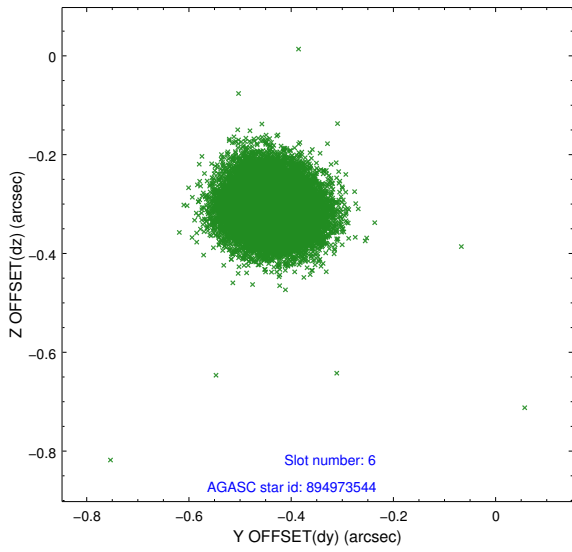
2.4.2 Slot 4



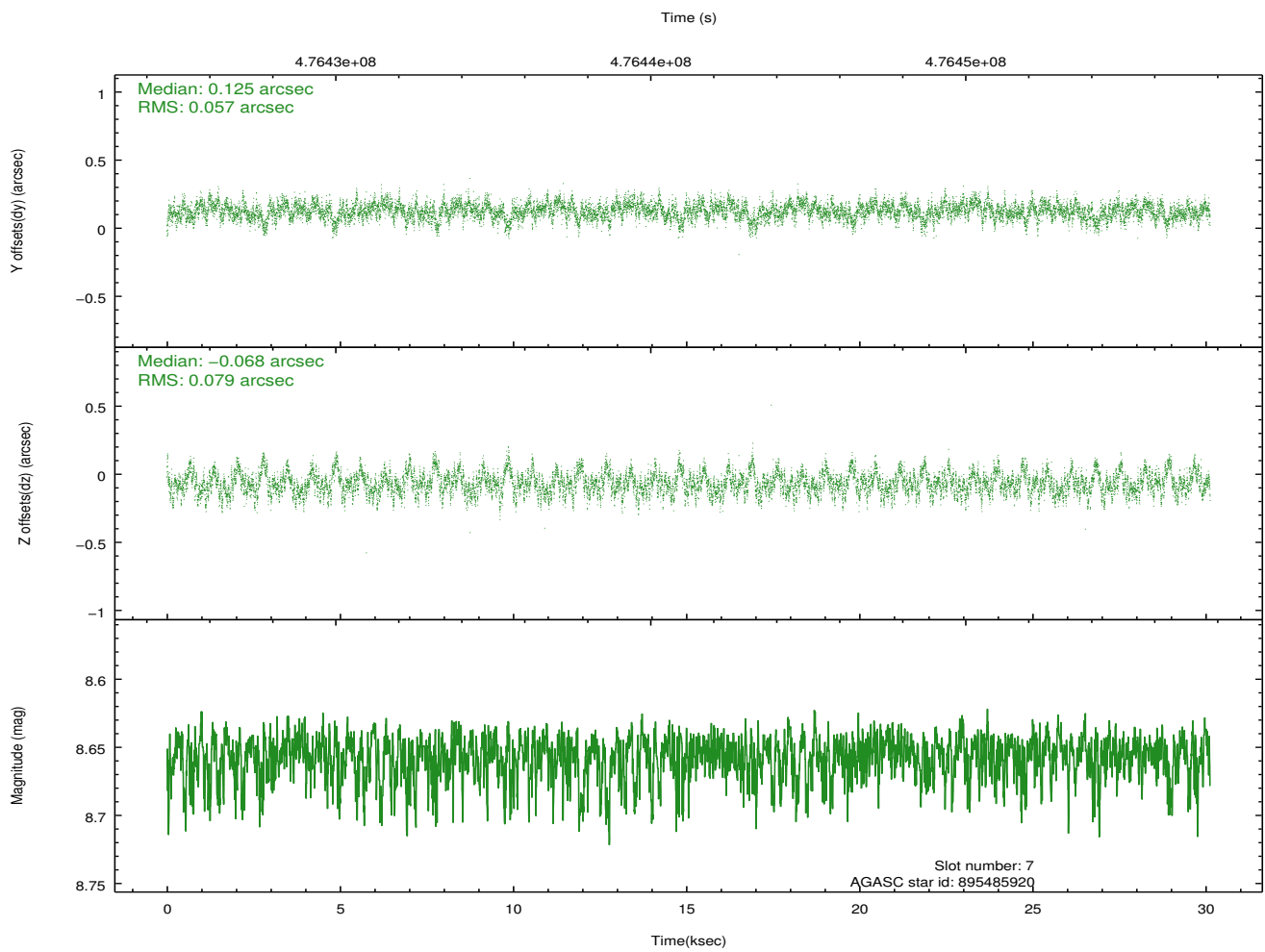
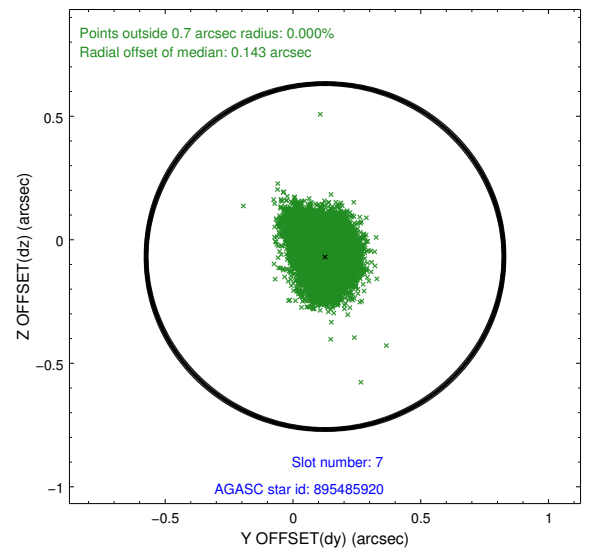
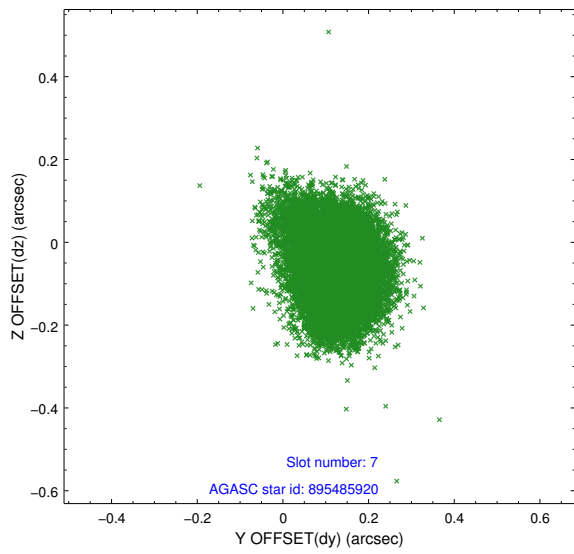
2.4.3 Slot 5



2.4.4 Slot 6

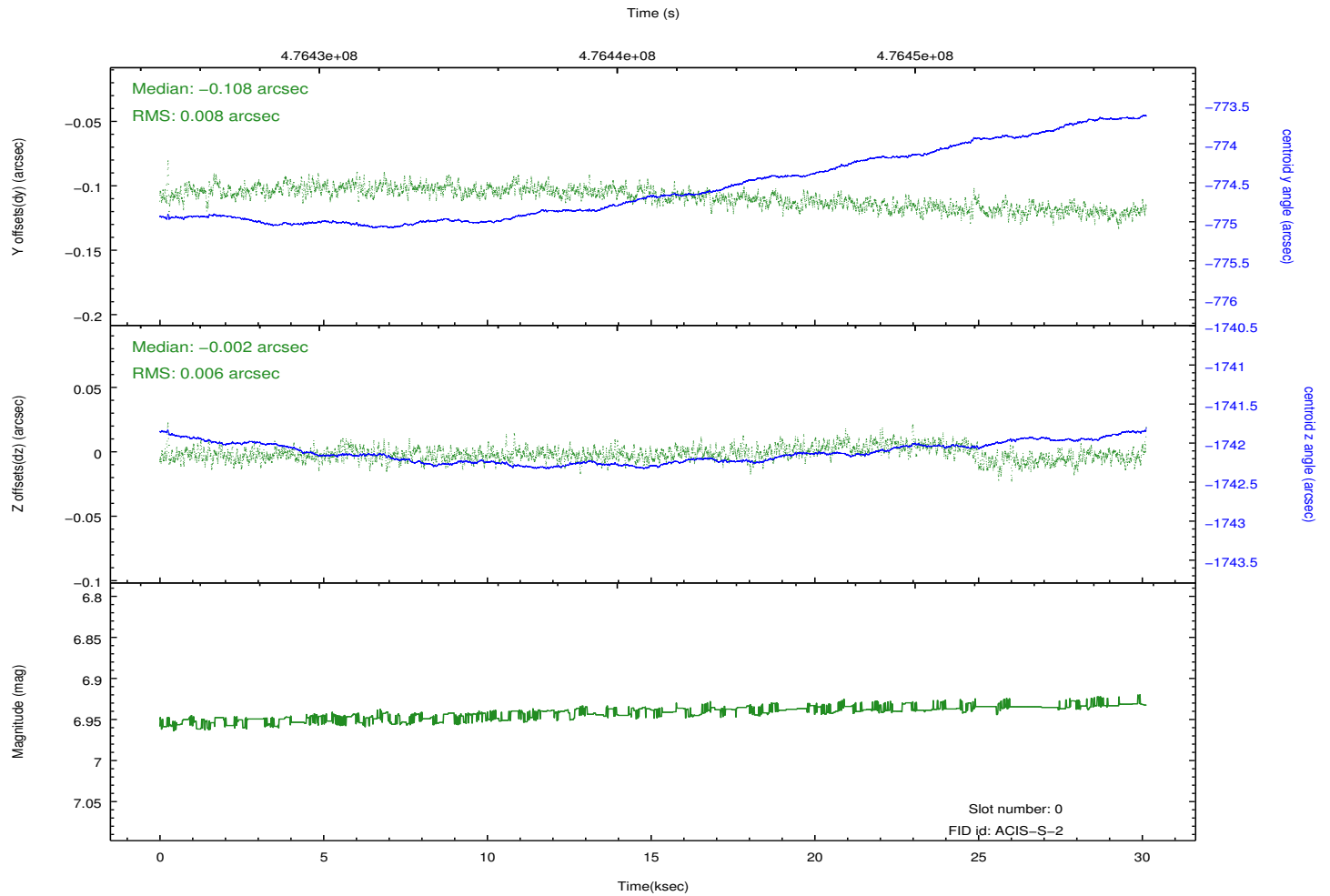
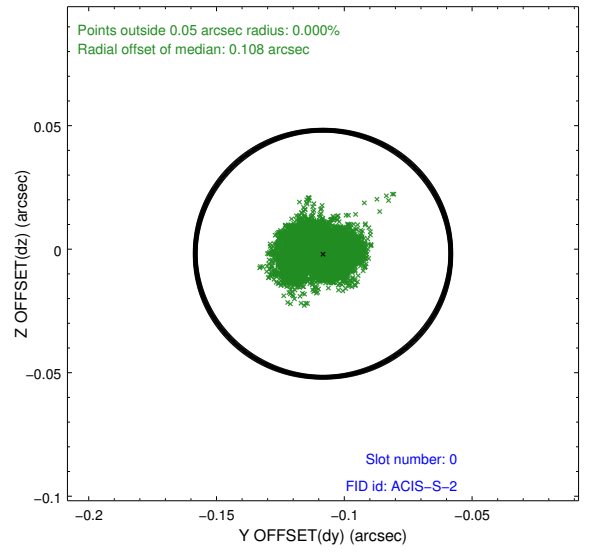
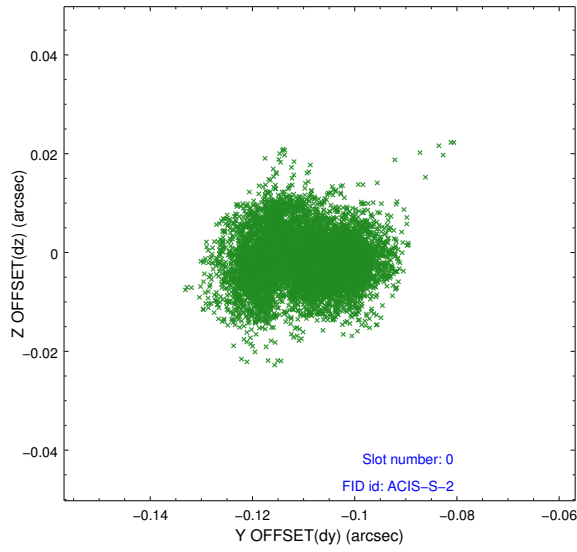


2.4.5 Slot 7

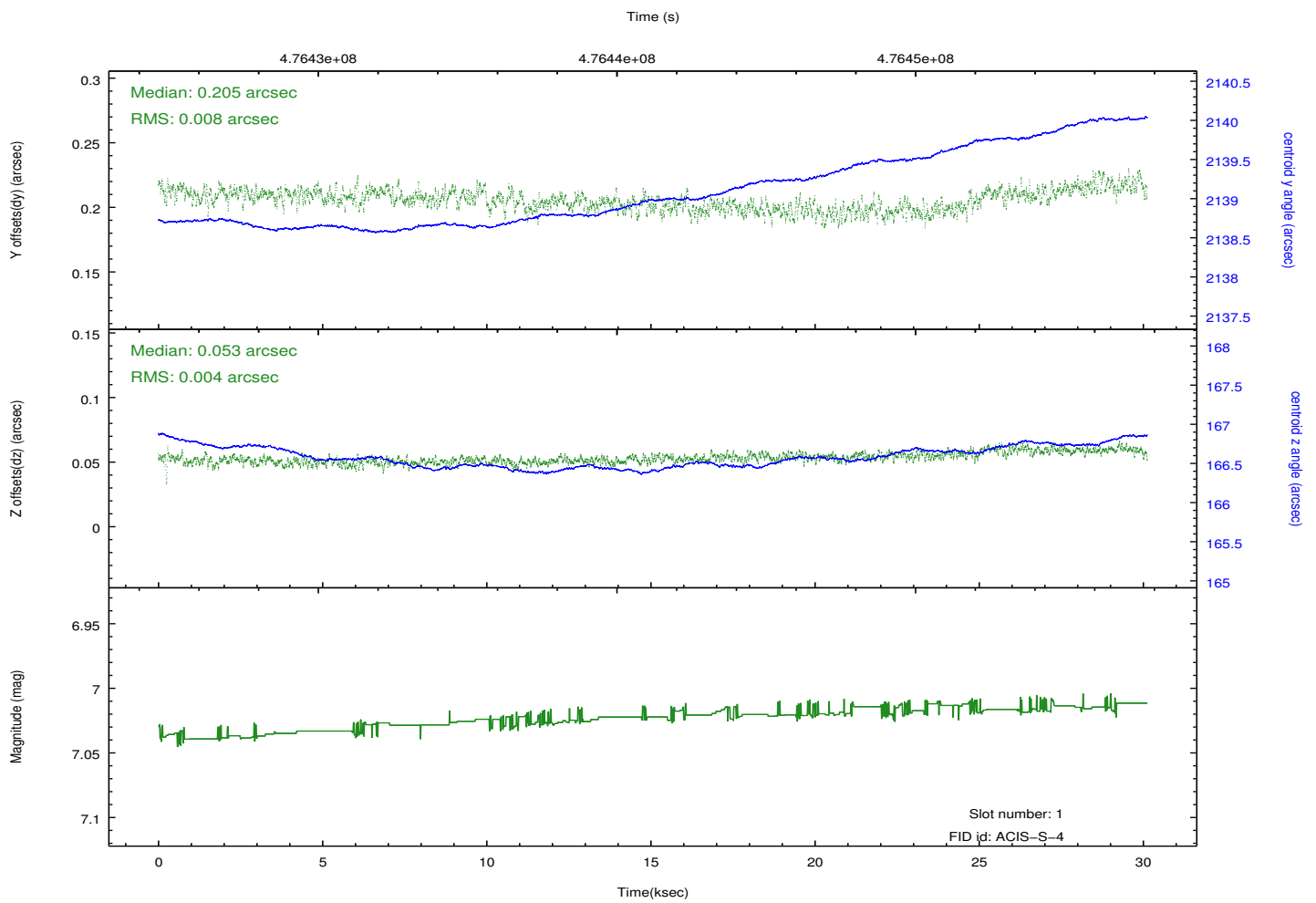
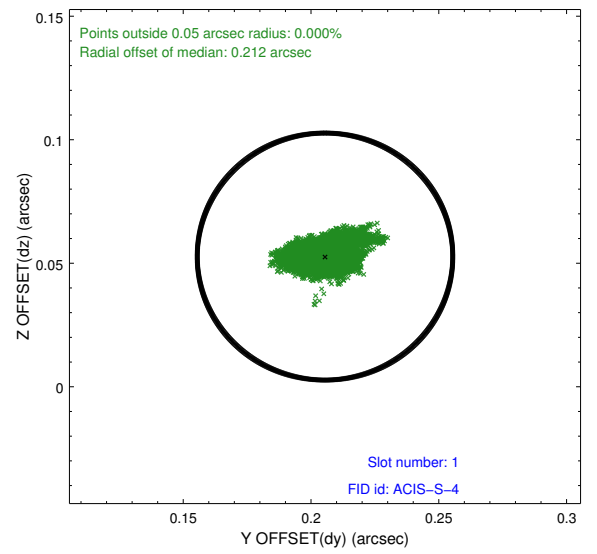
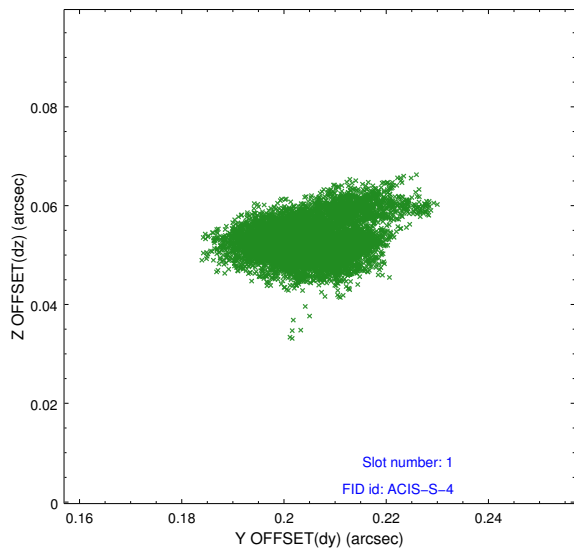


2.5 FID Slots

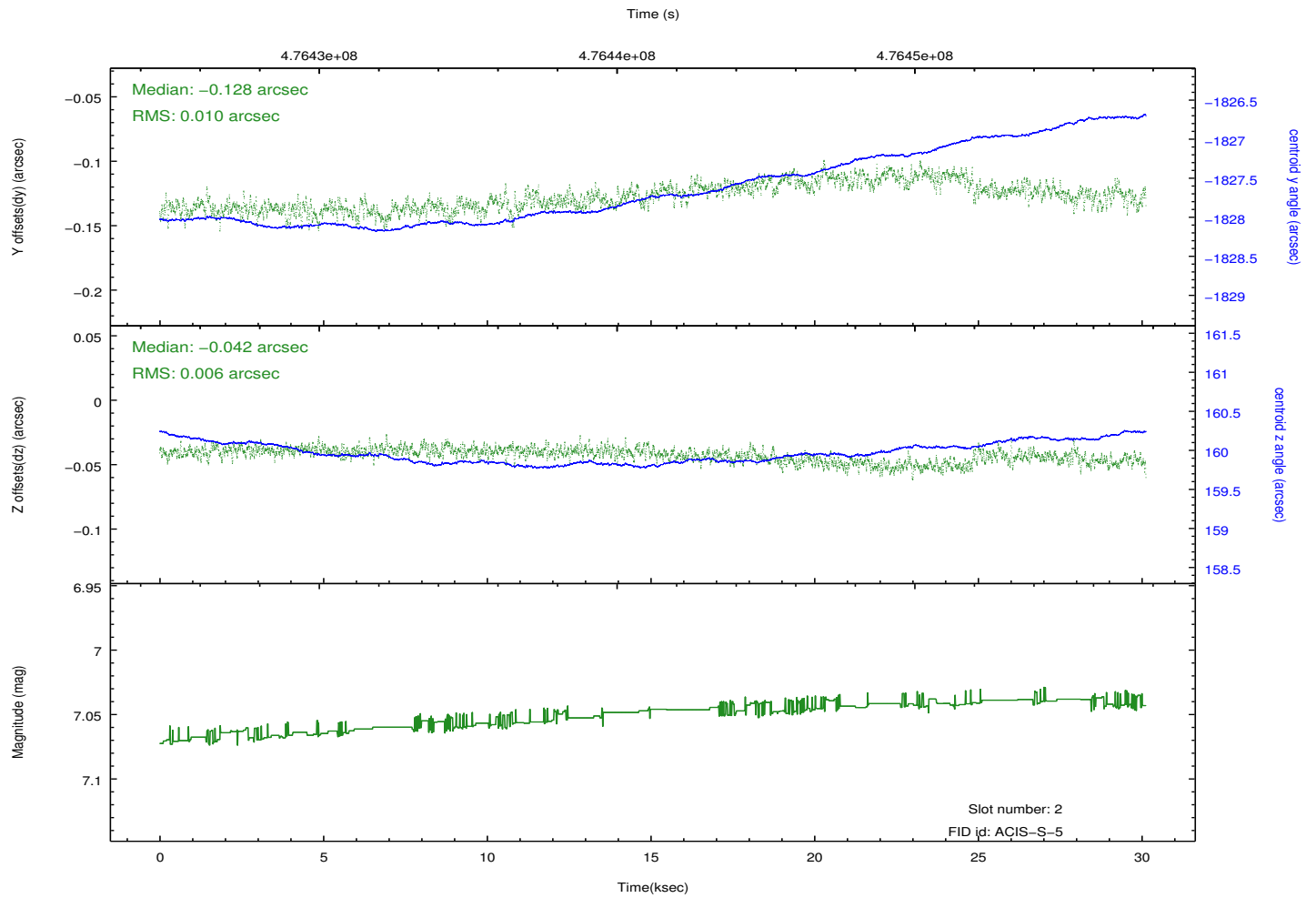
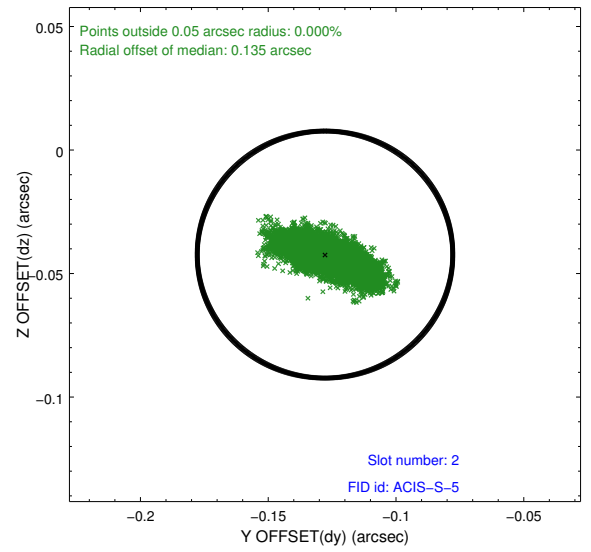
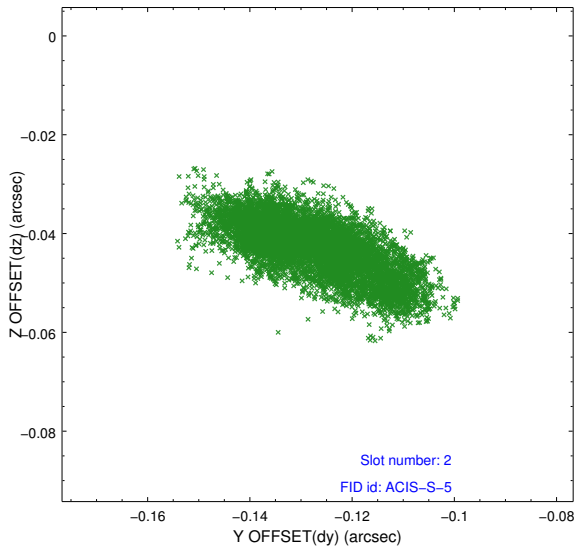
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.064000448048

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.