

V&V Reference Report

L2 ASCDS Version : 10

Observation 14946 - L2 Version 2
Chandra X-Ray Center

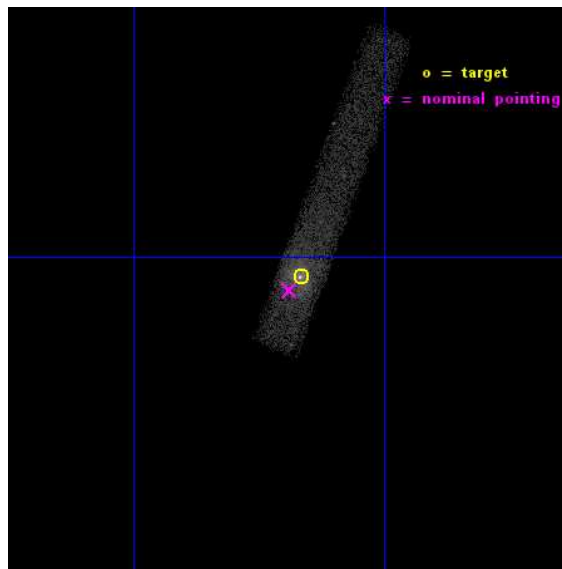
L2 Processing Date : Dec 3 2014

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1 Front

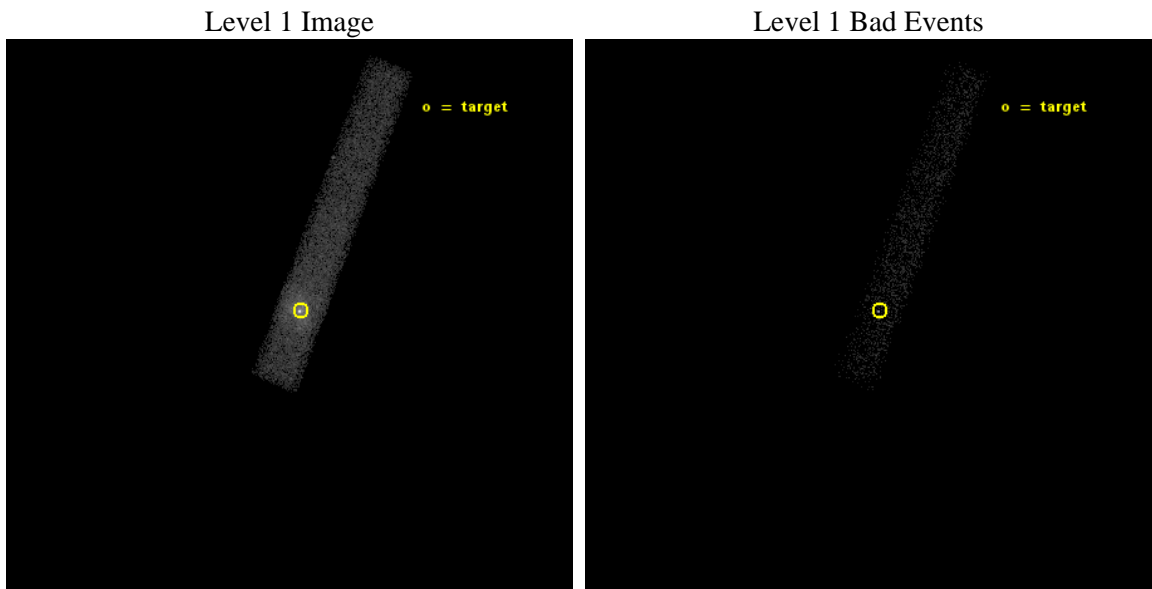
seq_num	601076	Sequence number
obs_id	14946	Observation id
title	Monitoring the Tidal Disruption of a Gas Cloud Approaching Sgr A*	
observer	Dr. Frederick Baganoff	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007806	Observer's specified target Dec [deg]
ra_nom	266.4224105013	Nominal RA [deg]
dec_nom	-29.013872418874	Nominal Dec [deg]
roll_nom	290.91440612041	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20069.848595858	Sum of GTIs [s]
lifetime	18202.293302973	Lifetime [s]
ontime7	20069.848595858	Sum of GTIs [s]
l2events	26736	Number of level 2 events



2 OBI

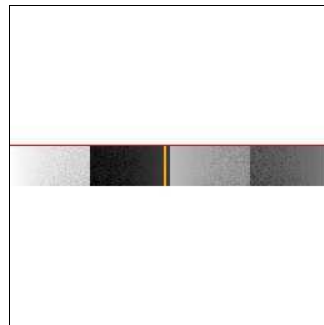
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.311000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20069.848595858	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	20069.848595858	Sum of GTIs [s]
date	2014-12-04T00:55:13	Date and time of file creation	l1events	36623	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

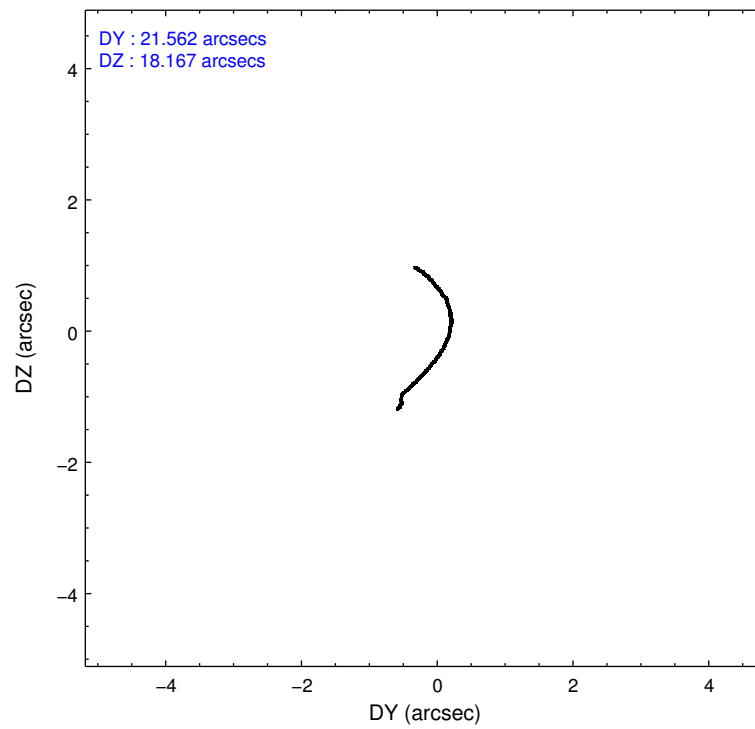
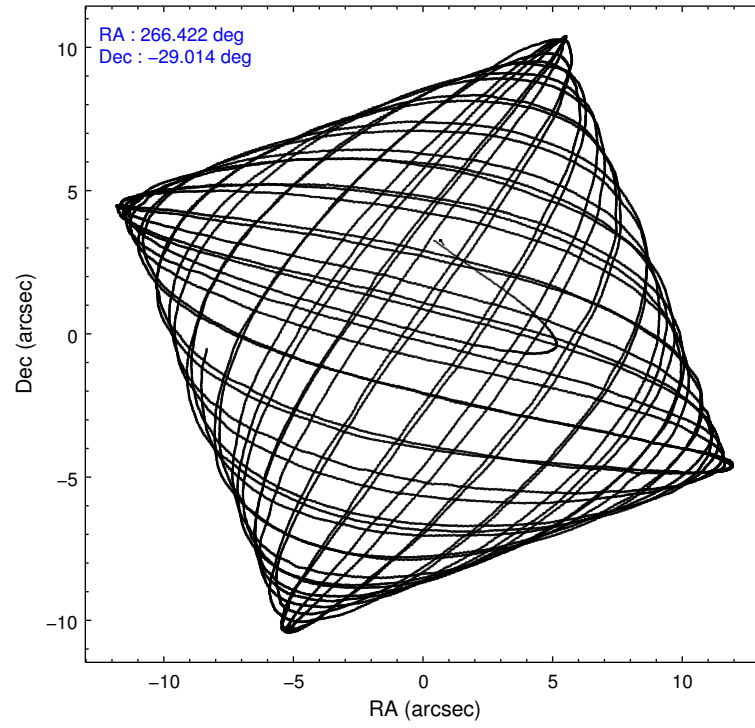
	ccd 7
level 1 events	36623
rejected events	9381
rejected %	25%

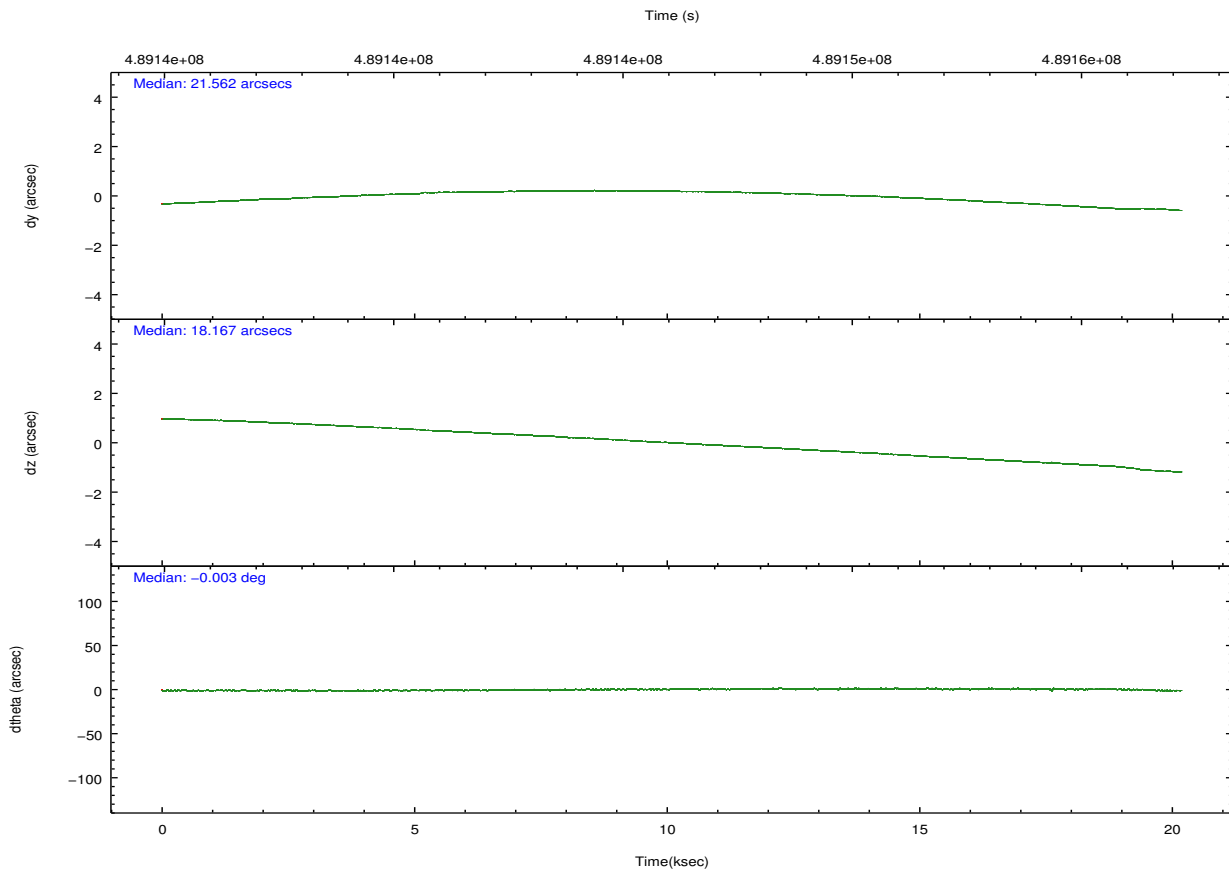
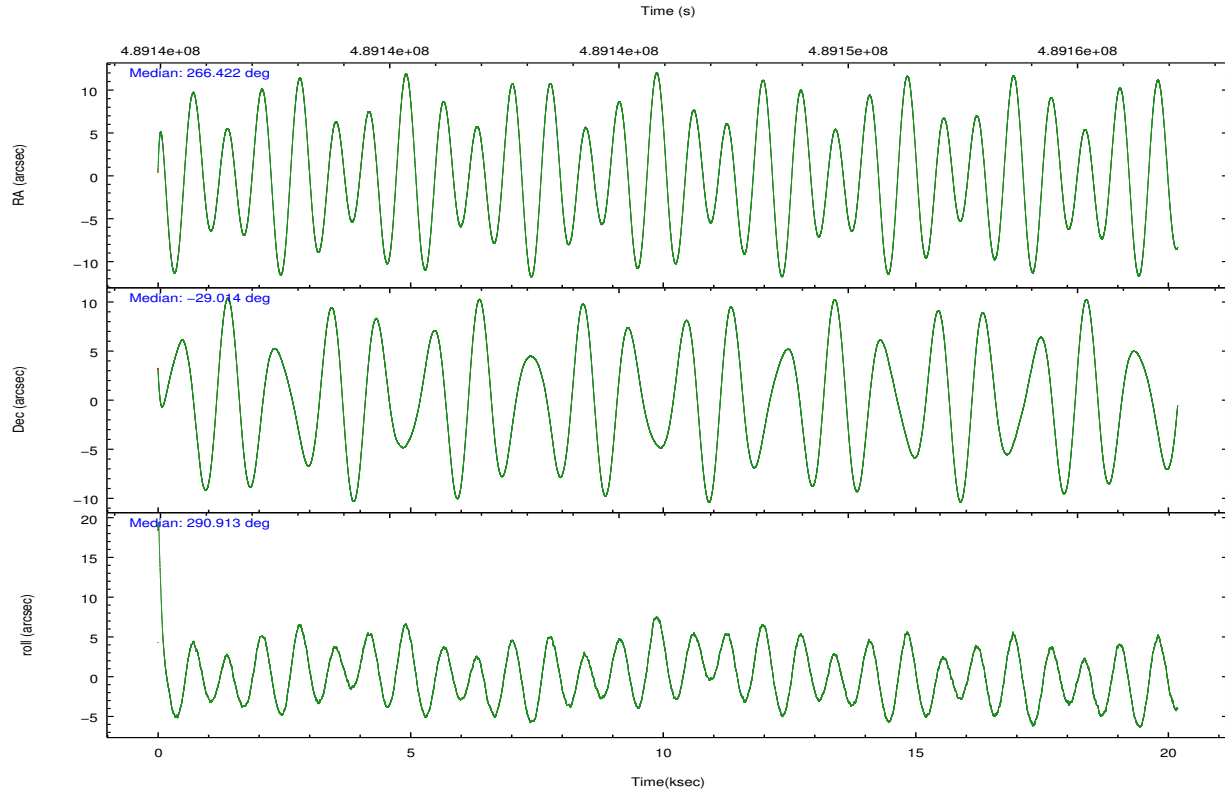
	ccd 7
grade 0 events	4484
	12%
grade 1 events	50
	0%
grade 2 events	6162
	16%
grade 3 events	3160
	8%
grade 4 events	3108
	8%
grade 5 events	1986
	5%
grade 6 events	10329
	28%
grade 7 events	7344
	20%

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	266.397884	266.422410501303	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.996923	-29.01387241887367	Subarray start row	449	449
[deg] Pointing Roll	290.745878	290.9144061204091	Subarray row count	128	128
[s] Window start time (MET)	488160067.184000	488160067.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	490320067.184000	490320067.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	489136153.184000	489134984.64365			
Observation start date	2013-07-02T07:08:06	2013-07-02T06:49:44			
[s] Observation end time (MET)	489156153.184000	489156378.95732			
Observation end date	2013-07-02T12:41:26	2013-07-02T12:46:18			
Read mode	TIMED	TIMED			

2.3 Aspect





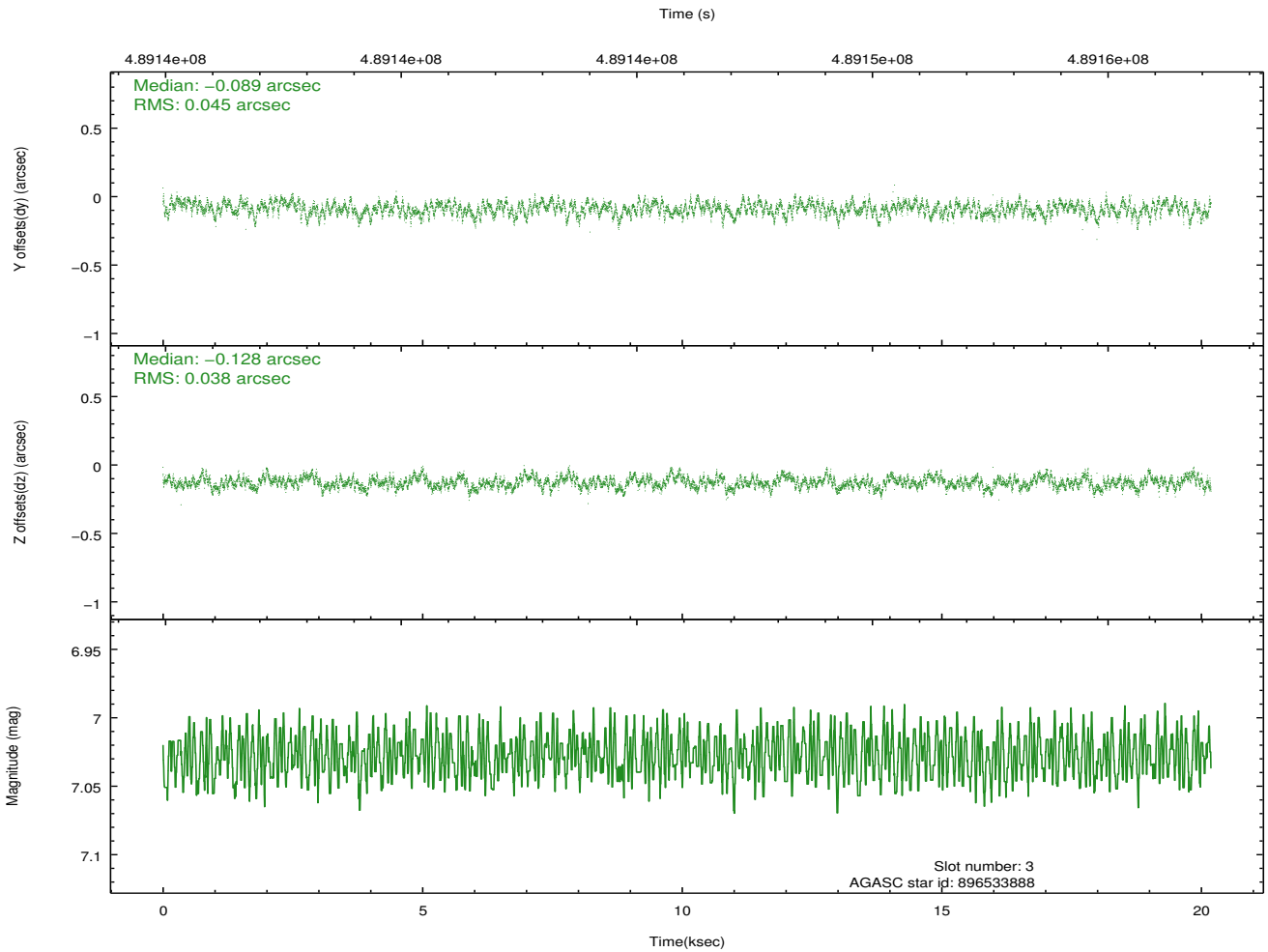
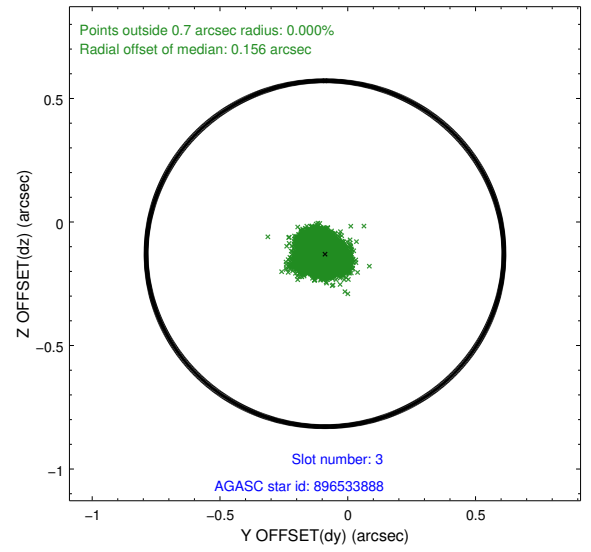
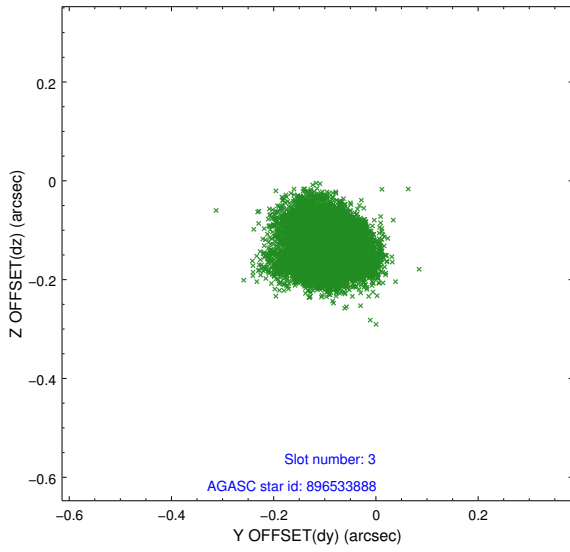
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	4925	-0.099	-0.035	0.012	0.026	0.000000	0.000000	-774.78	-1739.58
1	FID		ACIS-S-4	7.02	4925	0.214	0.057	0.006	0.012	0.000000	0.000000	2138.76	168.76
2	FID		ACIS-S-5	7.05	4925	-0.146	-0.014	0.013	0.026	0.000000	0.000000	-1827.40	162.62
3	GUIDE	used	896533888	7.03	9845	-0.089	-0.128	0.062	0.101	266.666434	-29.392757	1632.10	282.64
4	GUIDE	used	896537176	8.02	9848	0.058	-0.020	0.075	0.119	266.498272	-28.678259	-959.85	702.94
5	GUIDE	used	896540808	7.48	9849	0.117	0.292	0.104	0.162	265.985401	-29.308604	593.12	-1608.67
6	GUIDE	used	896541360	7.72	9849	-0.080	-0.130	0.053	0.087	266.684478	-29.453744	1857.46	257.09
7	GUIDE	used	896538696	6.83	9848	-0.009	-0.020	0.059	0.090	266.298470	-28.325572	-2371.16	561.55

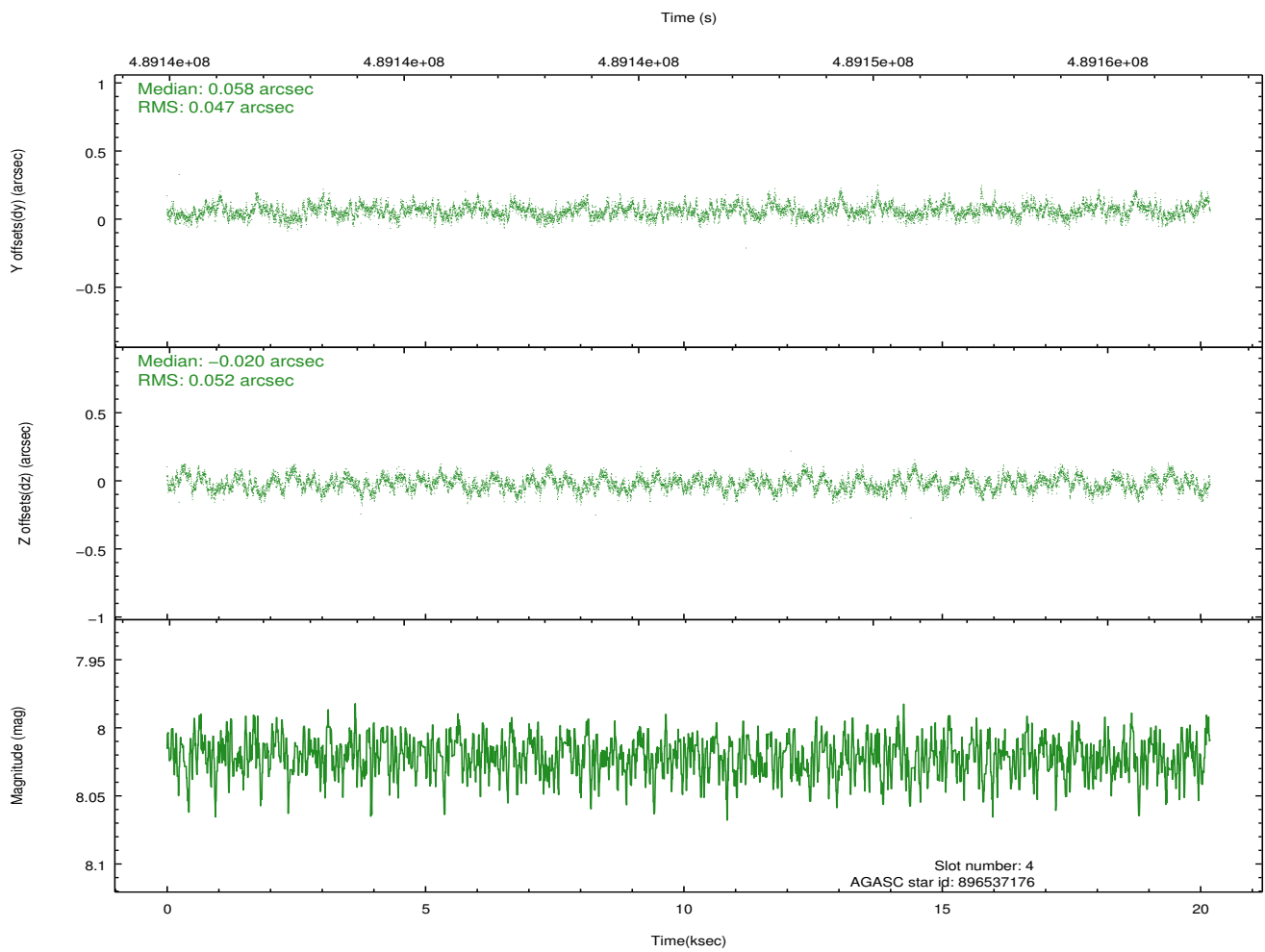
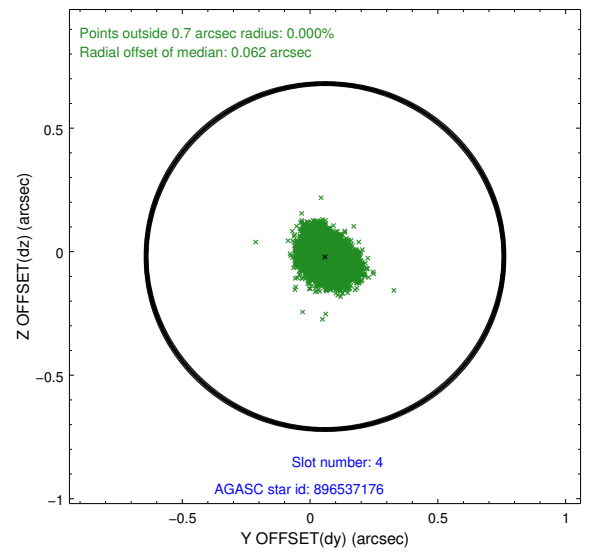
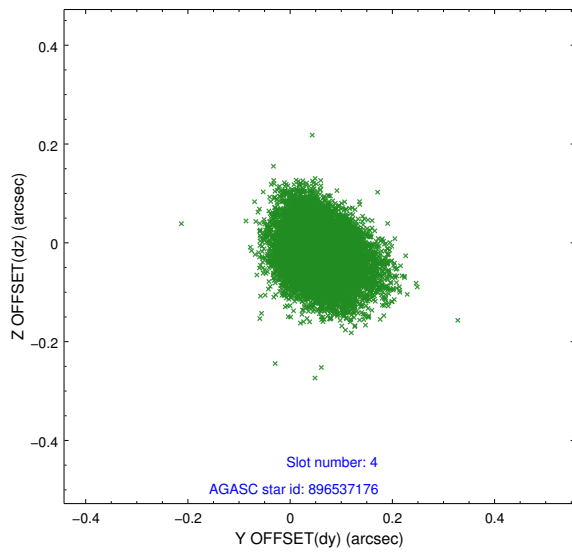
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2.4 Star Slots

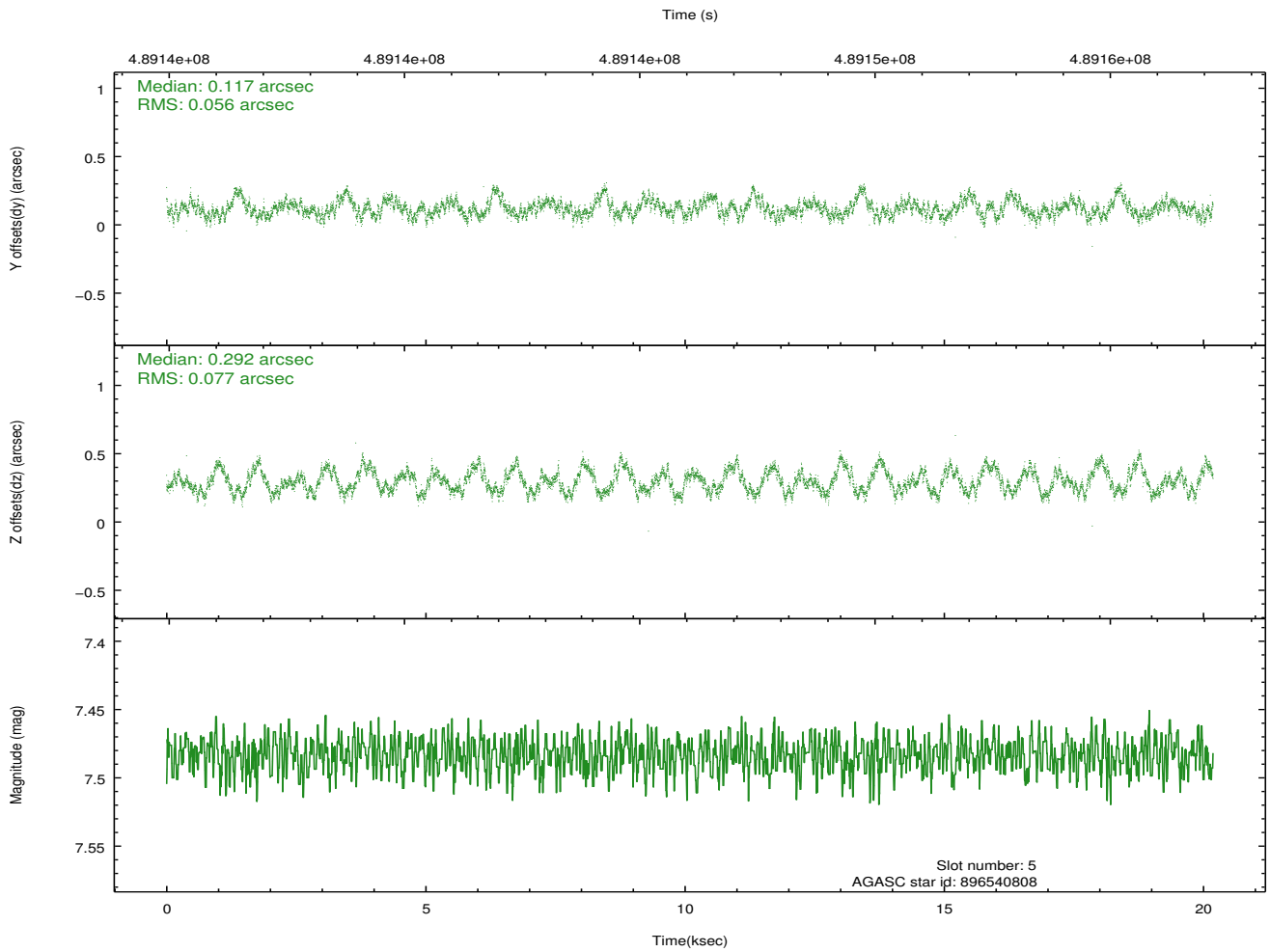
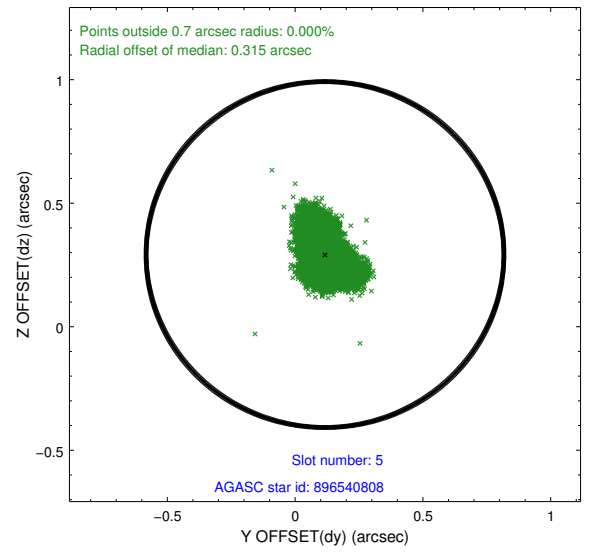
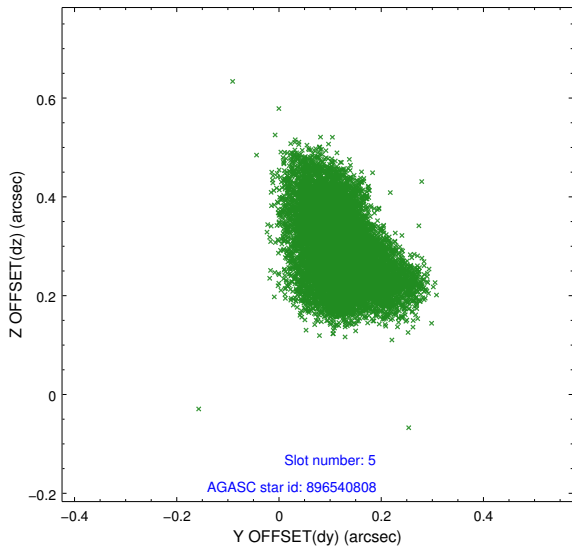
2.4.1 Slot 3



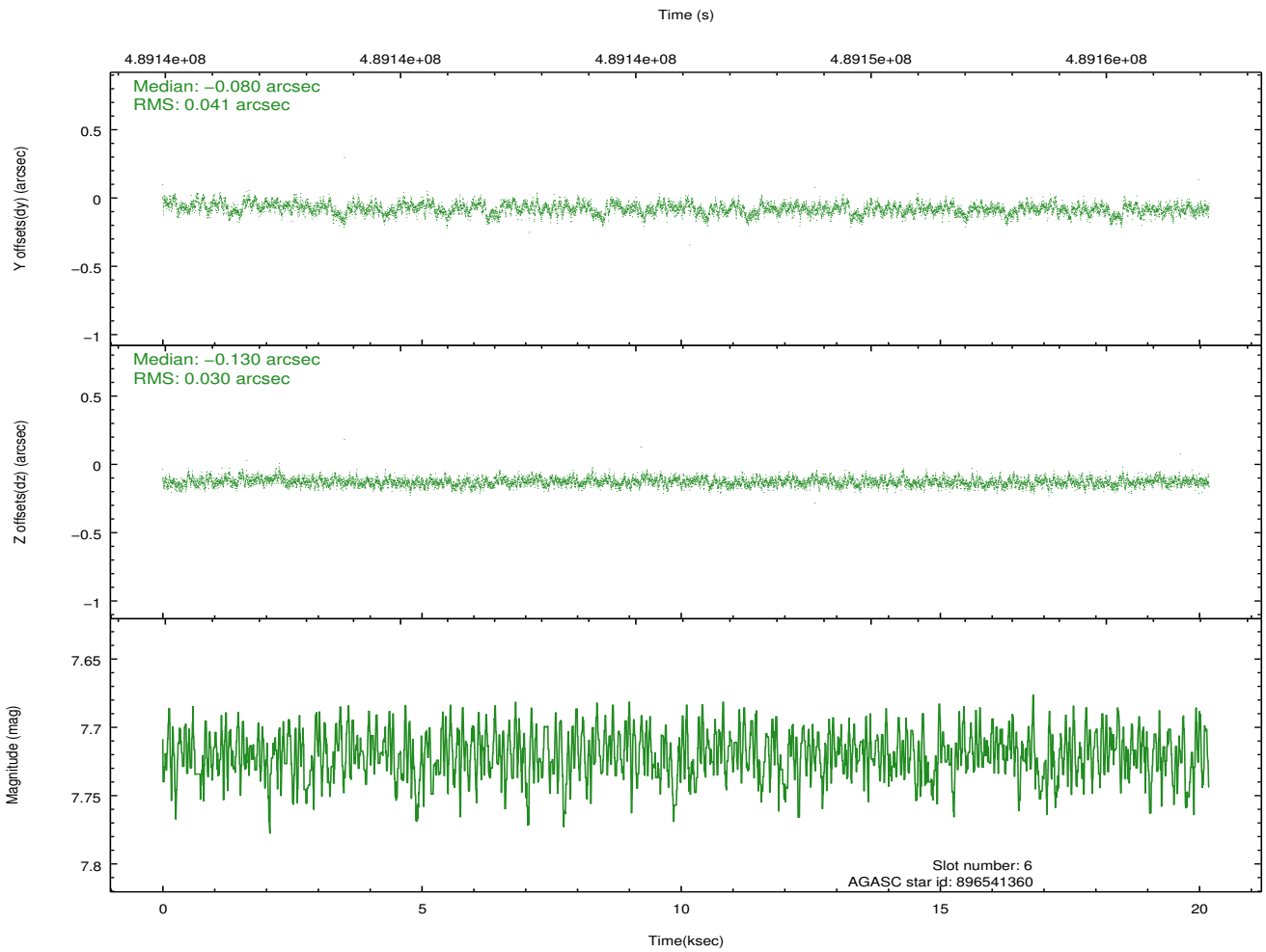
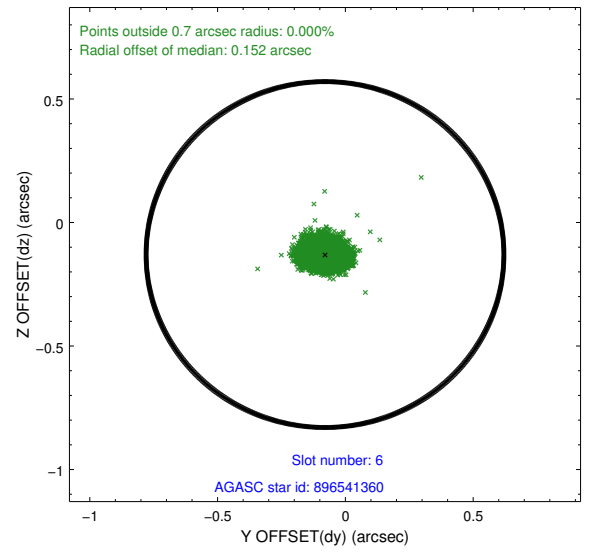
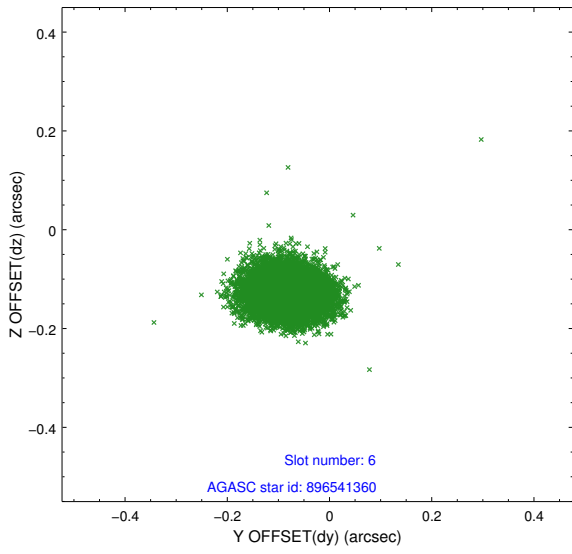
2.4.2 Slot 4



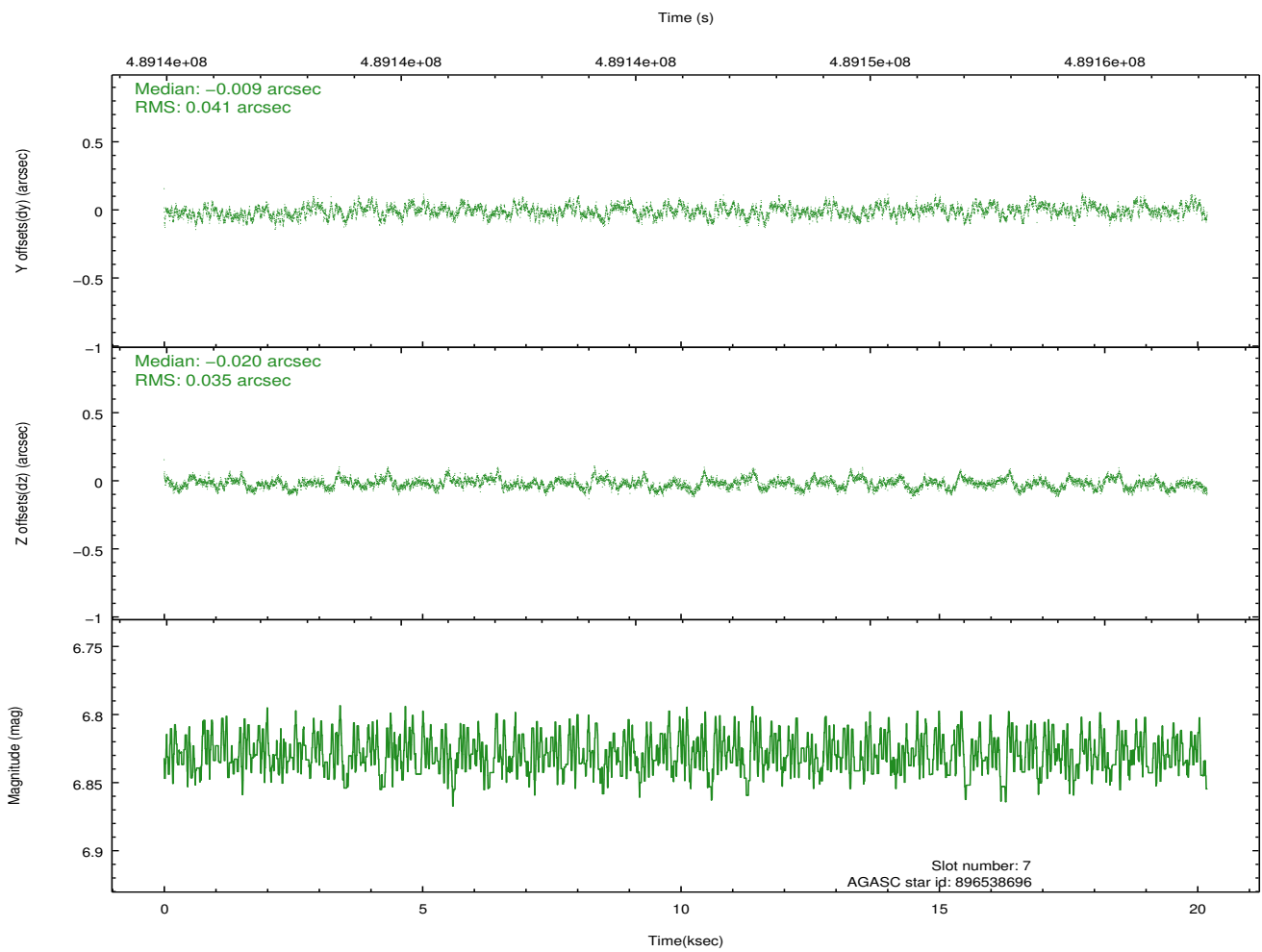
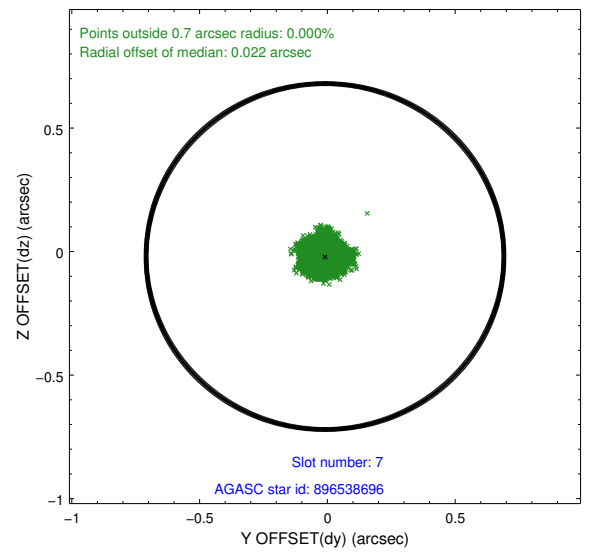
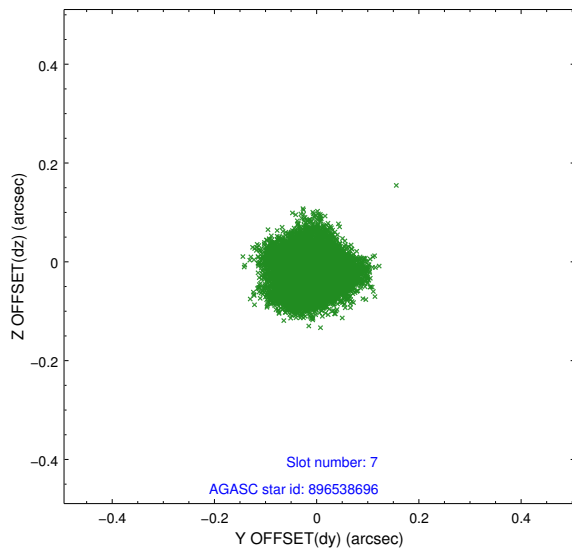
2.4.3 Slot 5



2.4.4 Slot 6

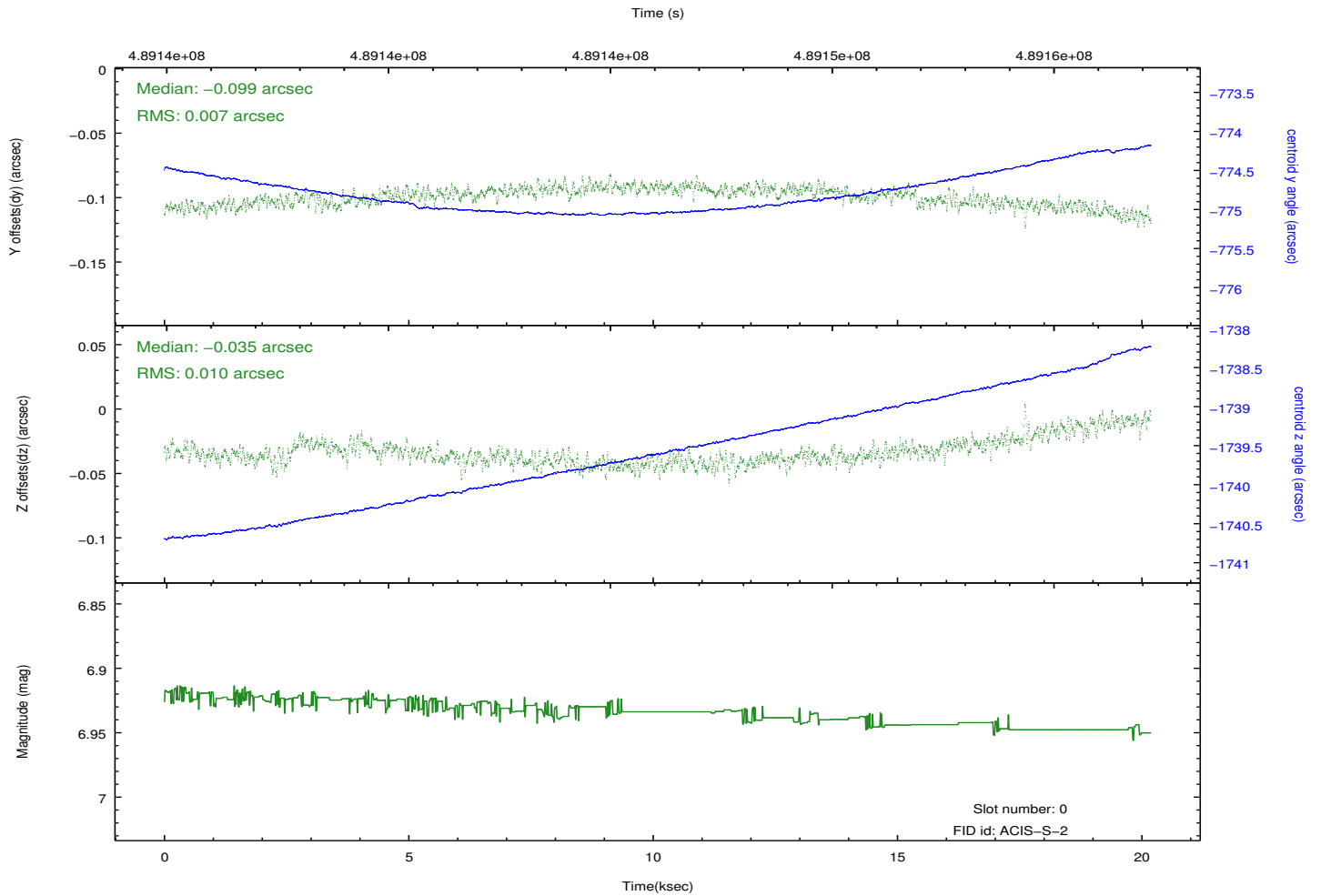
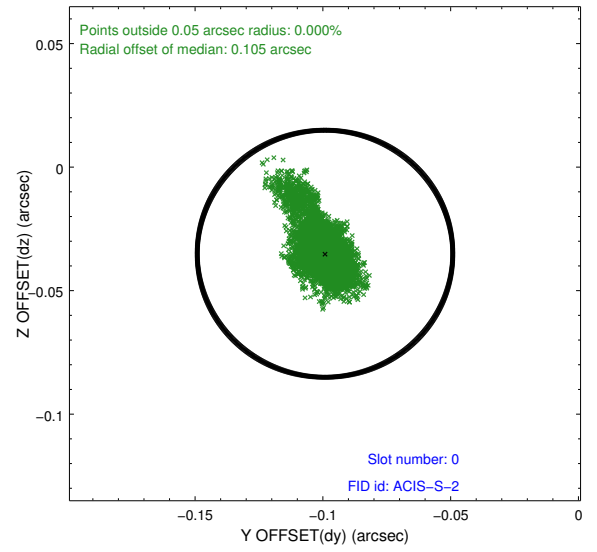
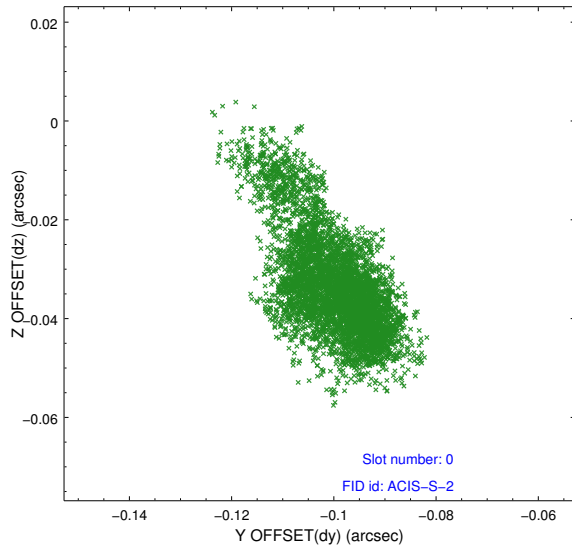


2.4.5 Slot 7

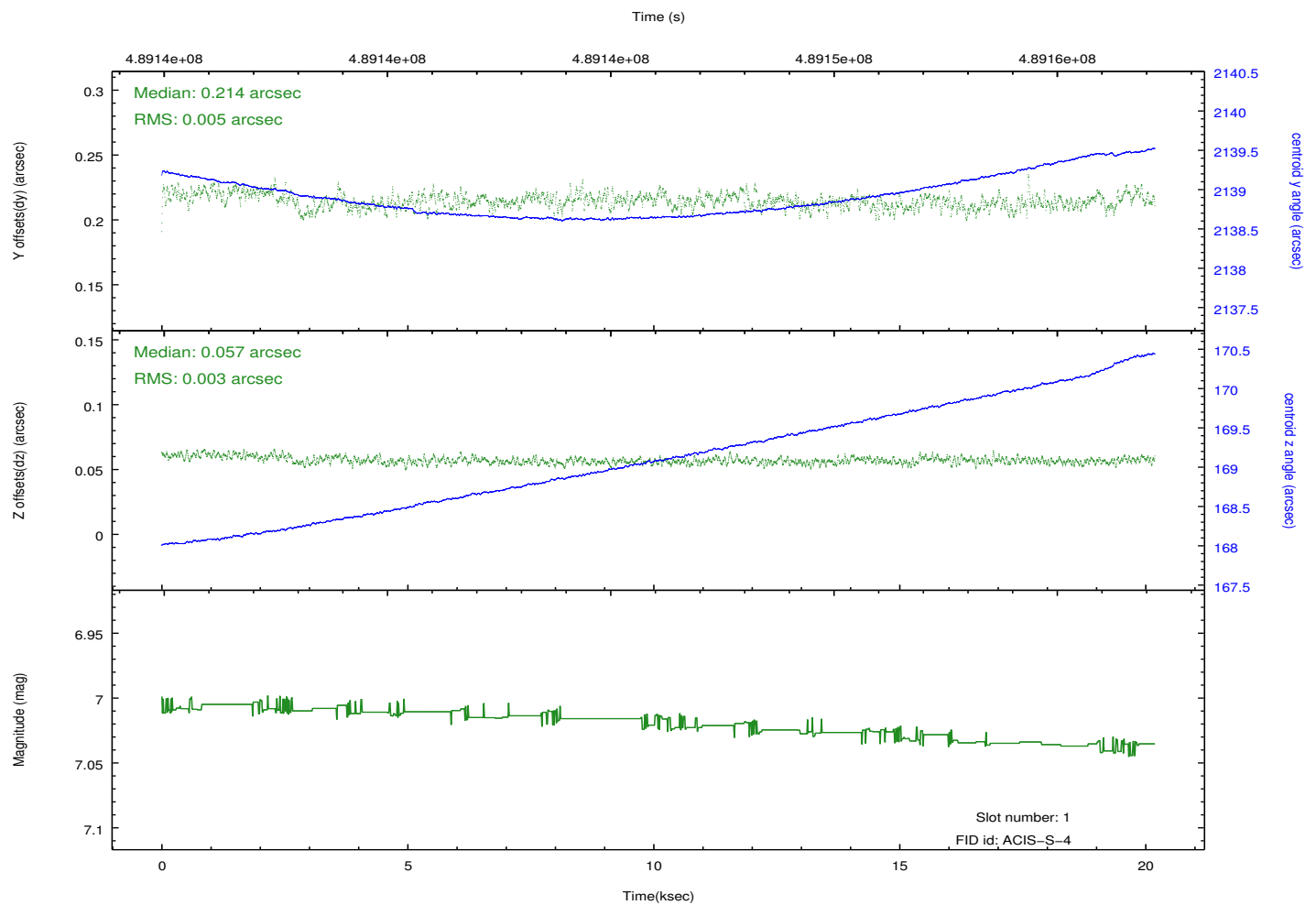
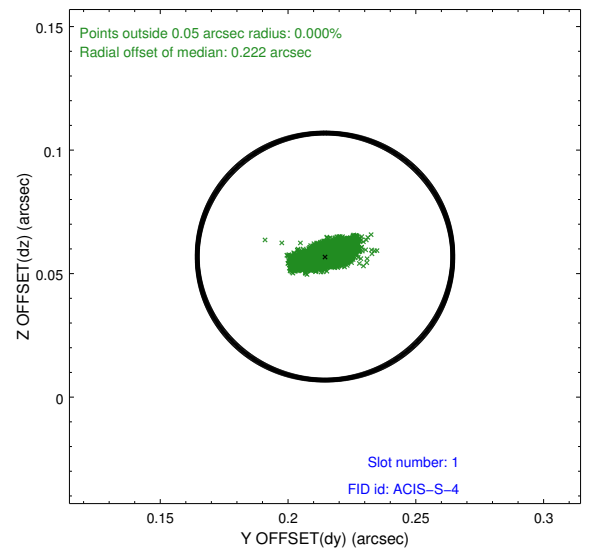
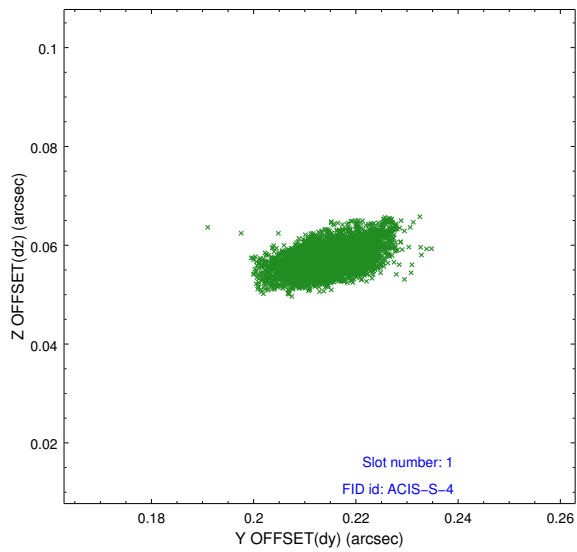


2.5 FID Slots

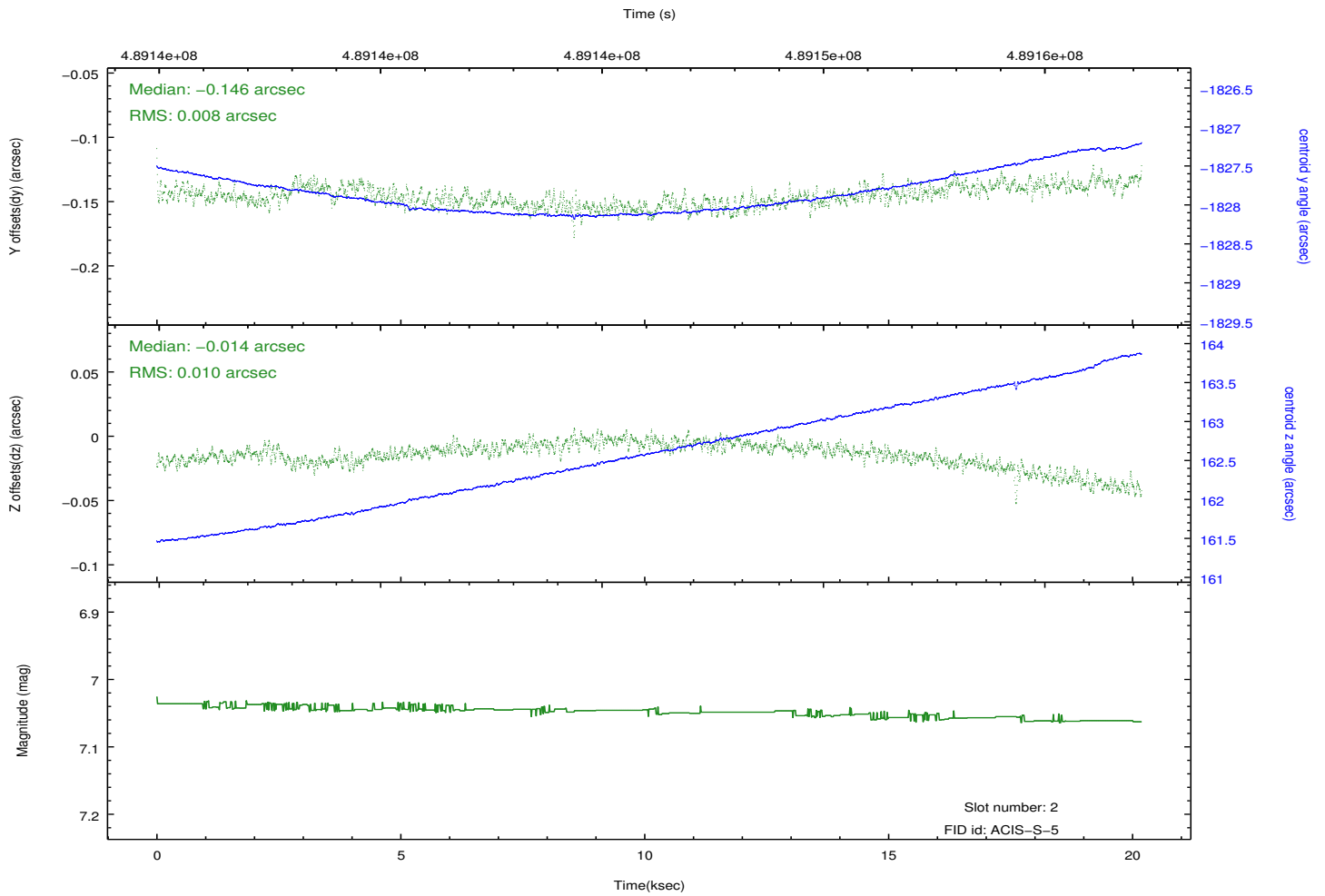
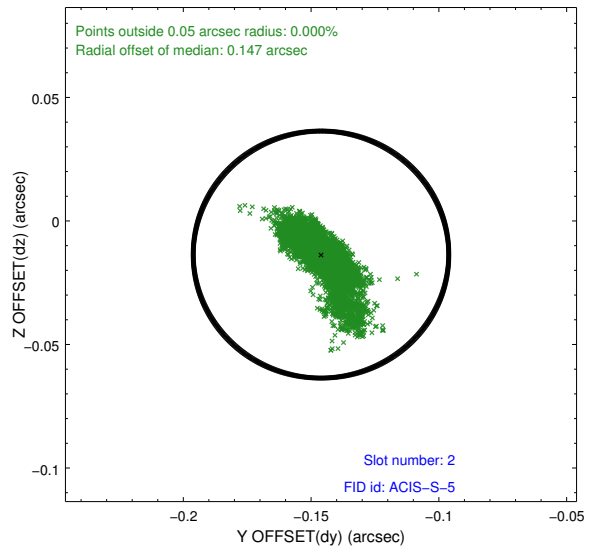
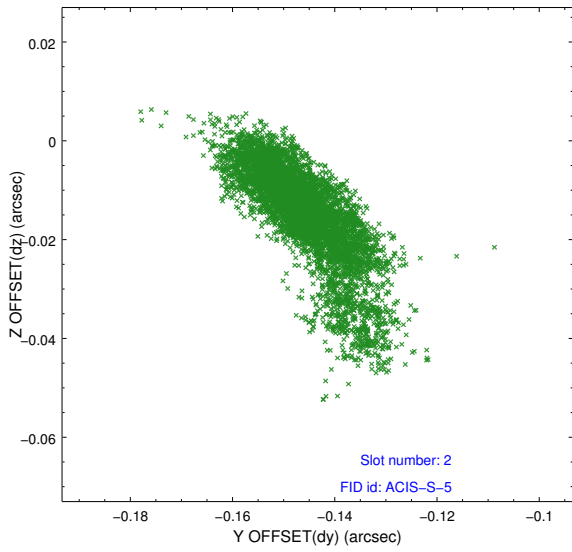
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069848595858

A.2 Comments

Window 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.