

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13971 - L2 Version 2
Chandra X-Ray Center

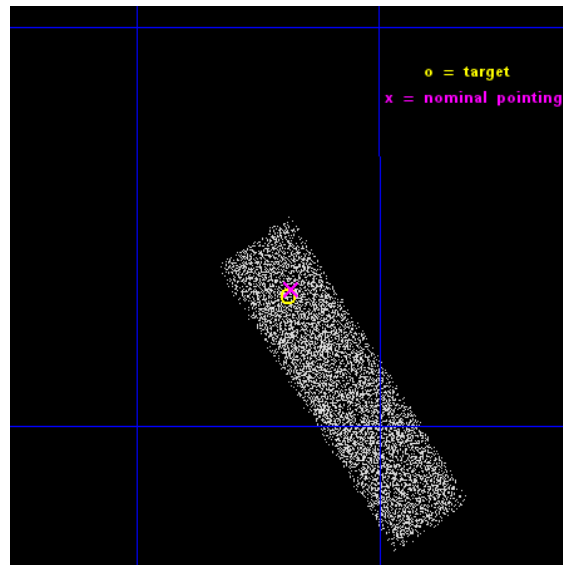
L2 Processing Date : Nov 27 2014

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1 Front

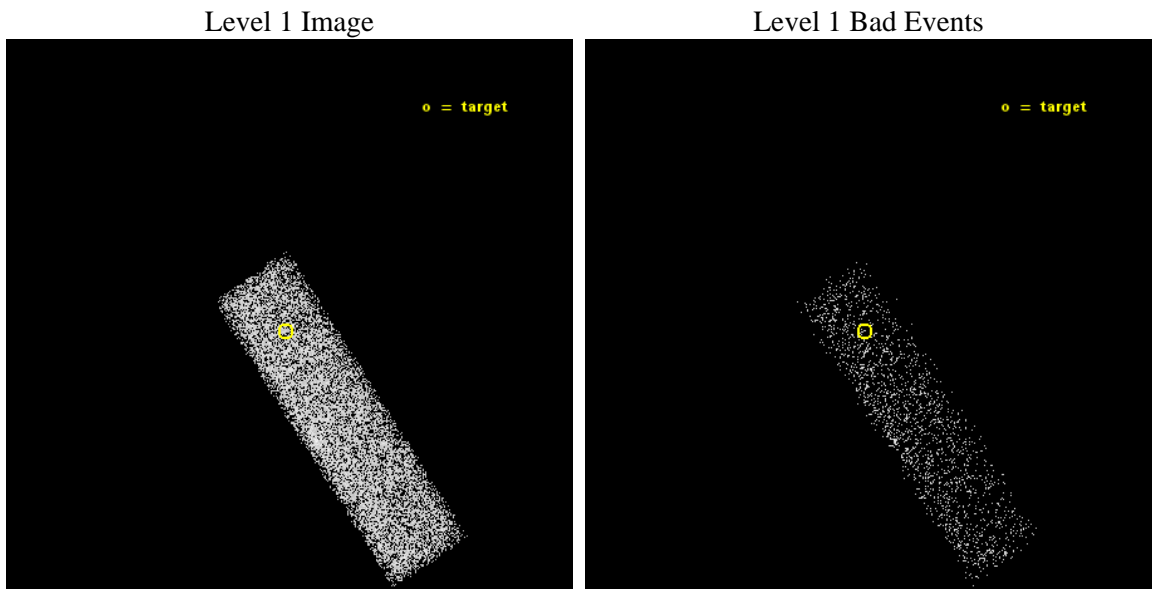
seq_num	702692	Sequence number
obs_id	13971	Observation id
title	Black Holes at the Centers of Nearby Dwarf Galaxies	Proposal title
observer	Dr. Edward Moran	Principal investigator
object	J0949+3213	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	147.421667	Observer's specified target RA [deg]
dec_targ	32.221111	Observer's specified target Dec [deg]
ra_nom	147.42024653258	Nominal RA [deg]
dec_nom	32.223880775174	Nominal Dec [deg]
roll_nom	56.795264771952	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10060.800149977	Sum of GTIs [s]
livetime	9569.8660229975	Livetime [s]
ontime7	10060.800149977	Sum of GTIs [s]
l2events	8931	Number of level 2 events



2 OBI

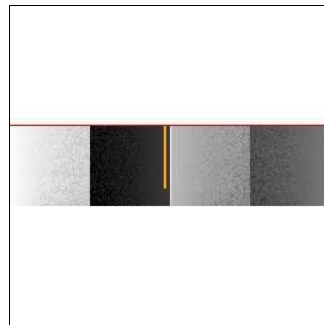
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10060.800149977	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	10060.800149977	Sum of GTIs [s]
date	2014-11-27T22:47:03	Date and time of file creation	l1events	18817	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

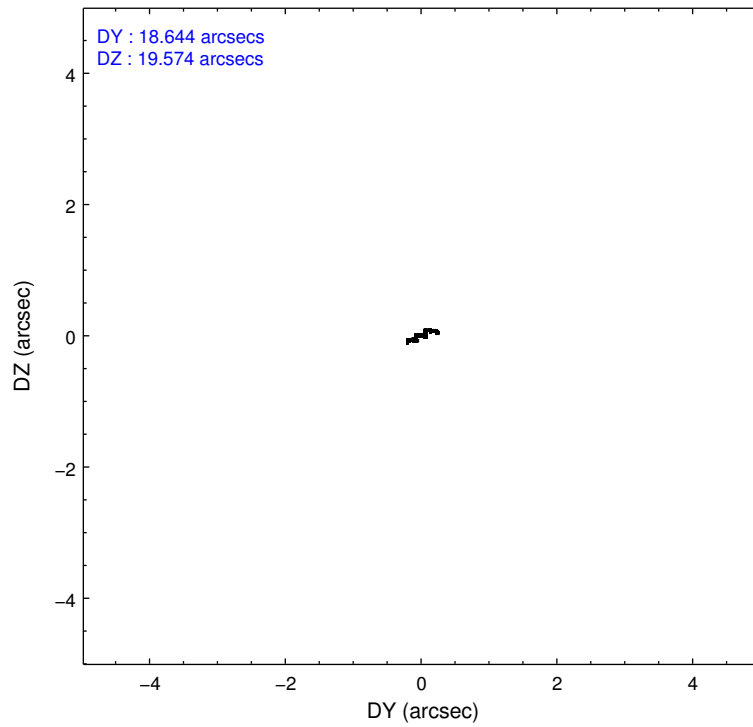
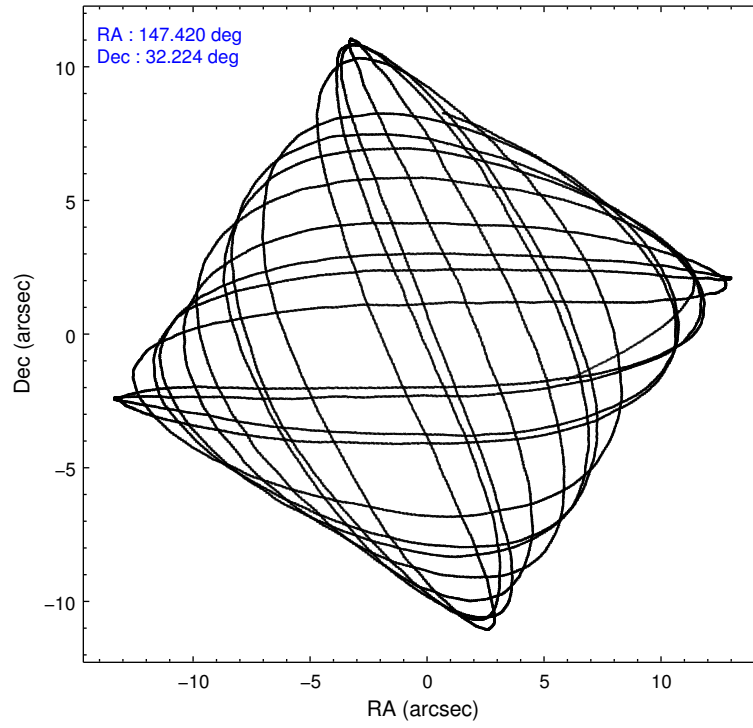
	ccd 7
level 1 events	18817
rejected events	9600
rejected %	51%

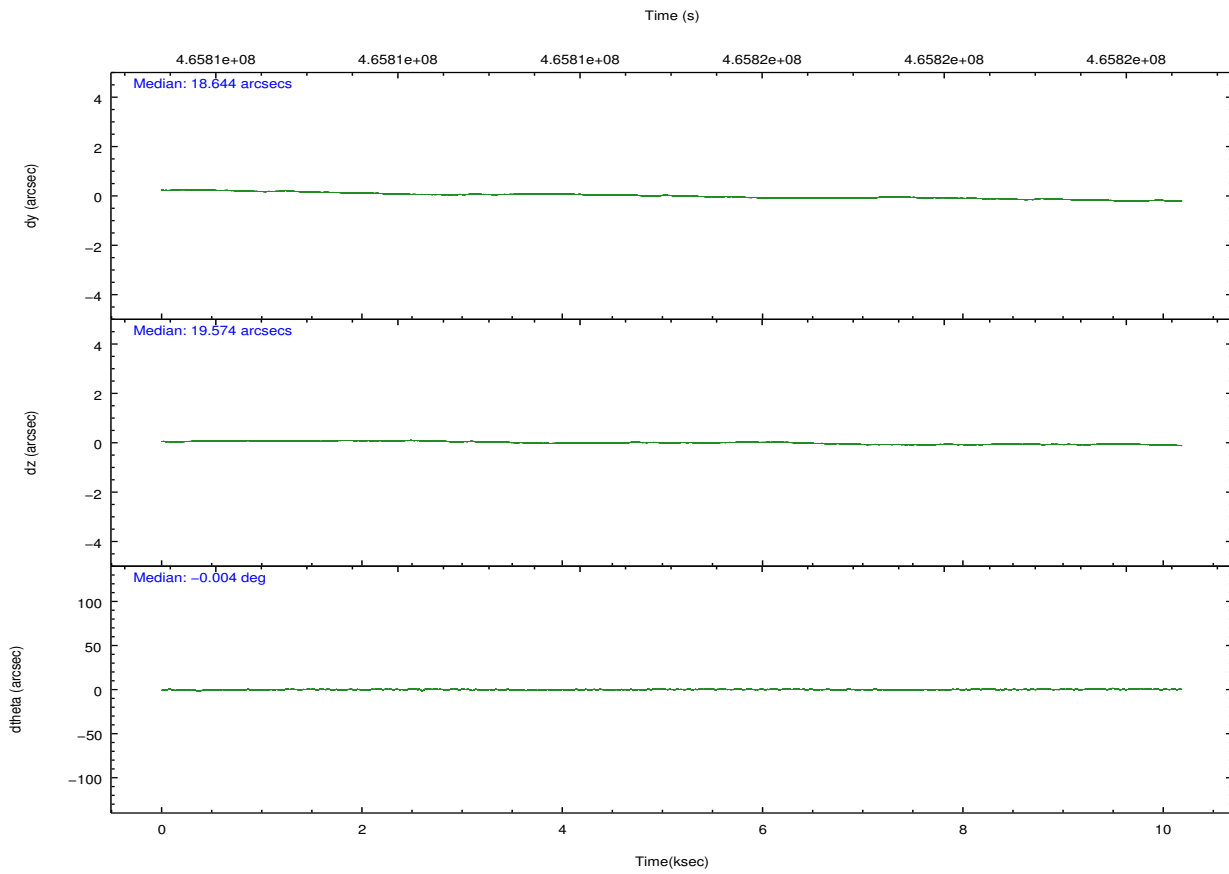
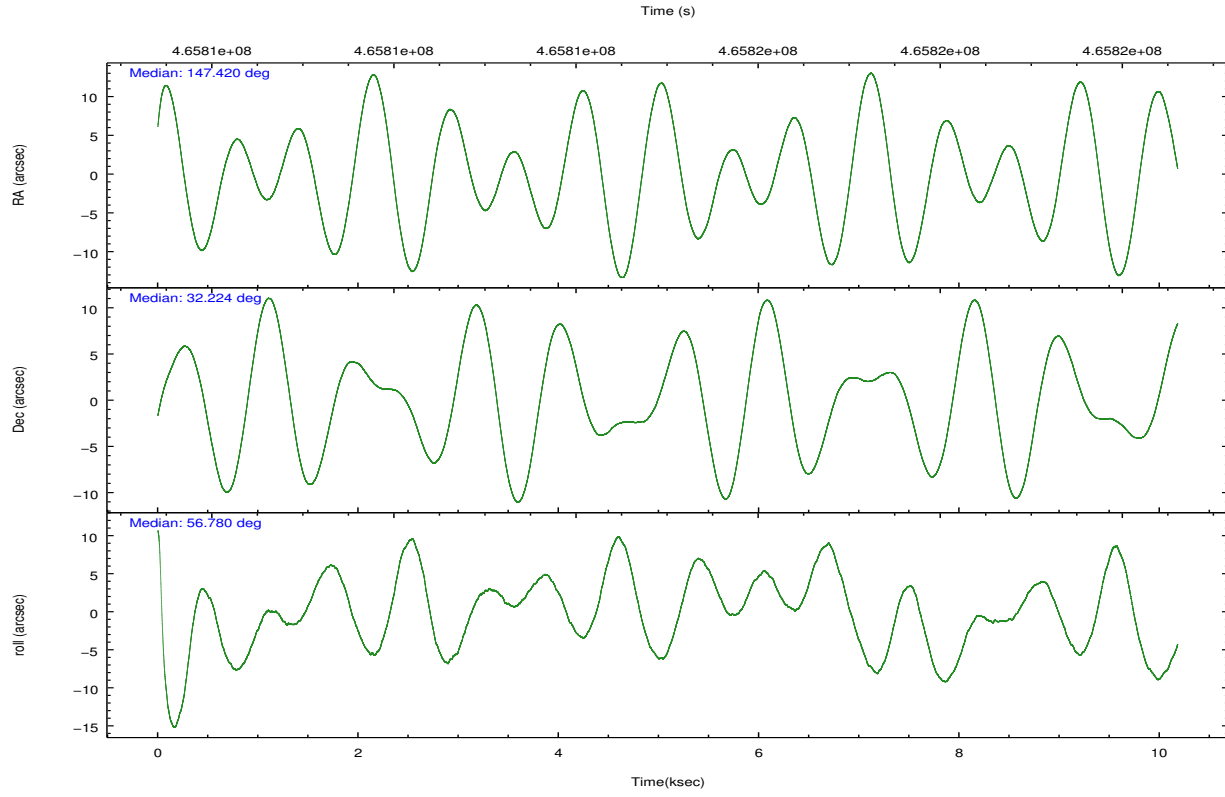
	ccd 7
grade 0 events	980
	5%
grade 1 events	21
	0%
grade 2 events	1858
	9%
grade 3 events	1026
	5%
grade 4 events	996
	5%
grade 5 events	1902
	10%
grade 6 events	4357
	23%
grade 7 events	7677
	40%

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	147.418826	147.4202465325822	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	32.196545	32.22388077517416	Subarray start row	385	385
[deg] Pointing Roll	56.639372	56.7952647719522	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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	465810105.184000	465809464.2839			
Observation start date	2012-10-05T07:40:38	2012-10-05T07:31:04			
[s] Observation end time (MET)	465820105.184000	465820926.85952			
Observation end date	2012-10-05T10:27:18	2012-10-05T10:42:06			
Read mode	TIMED	TIMED			

2.3 Aspect





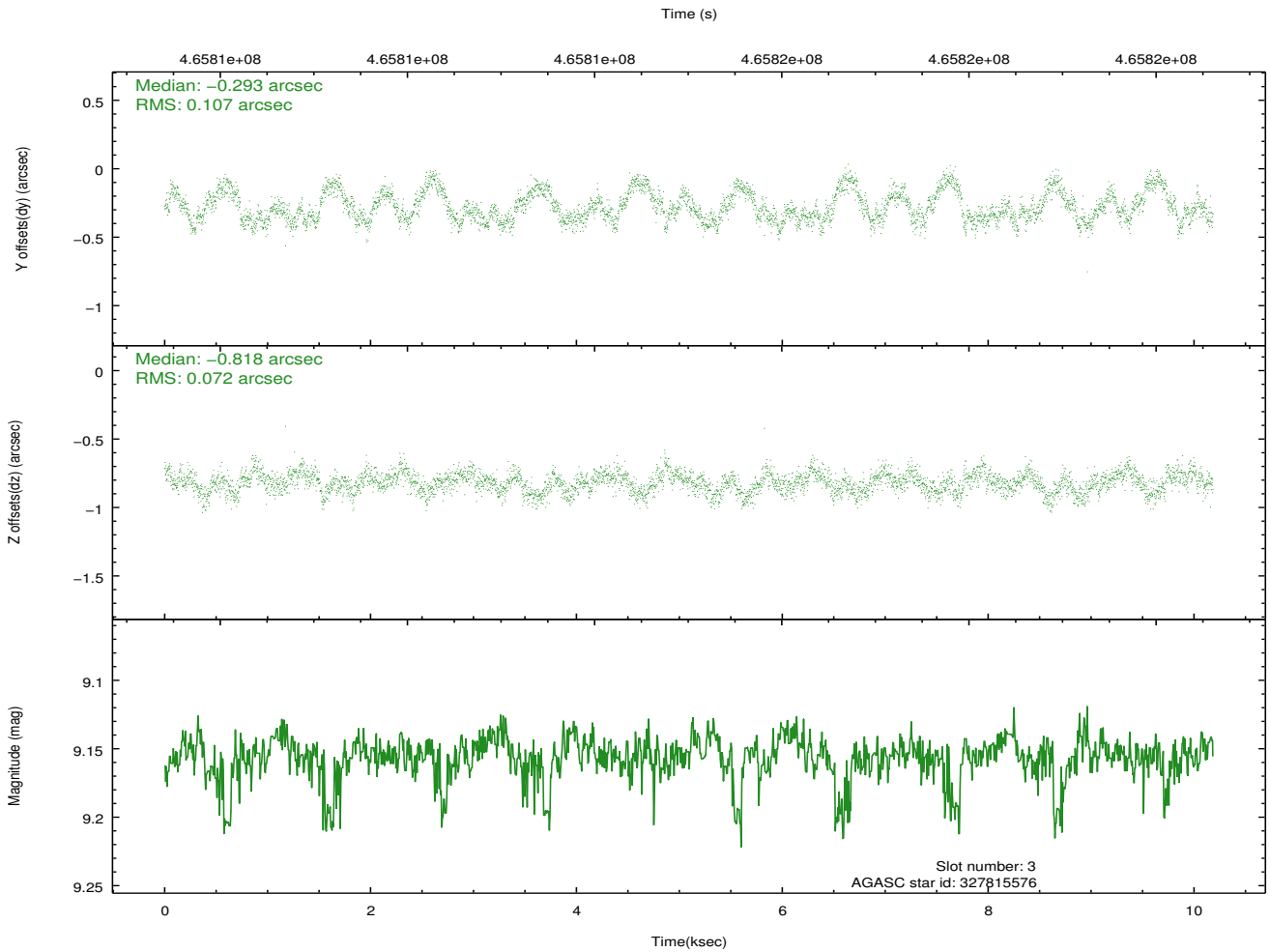
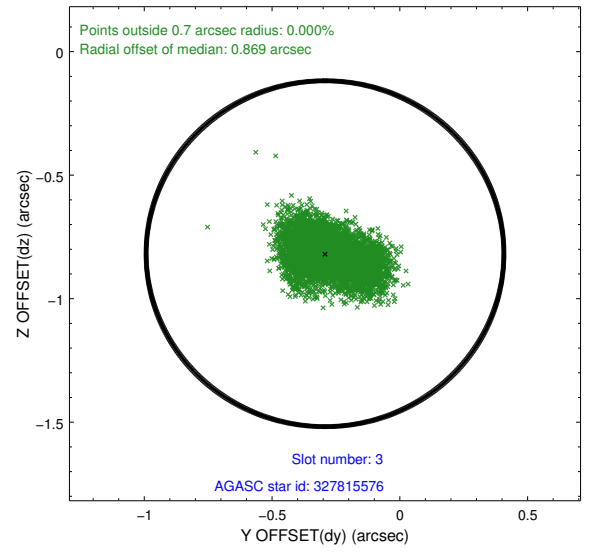
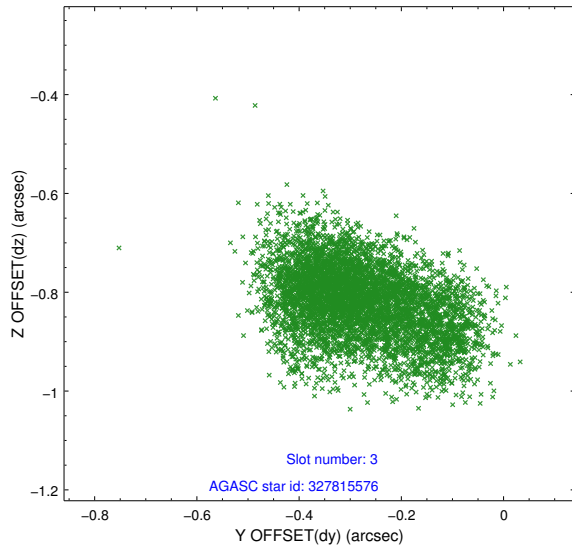
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	2484	-0.108	-0.023	0.007	0.011	0.000000	0.000000	-771.83	-1740.99
1	FID		ACIS-S-4	7.00	2484	0.251	0.058	0.008	0.013	0.000000	0.000000	2141.57	167.02
2	FID		ACIS-S-5	7.03	2484	-0.174	-0.027	0.007	0.011	0.000000	0.000000	-1824.07	161.22
3	GUIDE	used	327815576	9.16	4963	-0.293	-0.818	0.137	0.224	146.573244	32.078653	-1765.36	1925.74
4	GUIDE	used	327944672	9.90	4962	0.362	0.165	0.231	0.377	147.291271	31.847601	-1263.98	-364.27
5	GUIDE	used	327945680	9.15	4963	0.124	-0.119	0.117	0.181	147.036442	32.114549	-886.45	812.73
6	GUIDE	used	327942424	8.03	4967	-0.187	0.776	0.092	0.137	147.736012	31.385852	-1900.26	-2417.45
7	UNUSED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

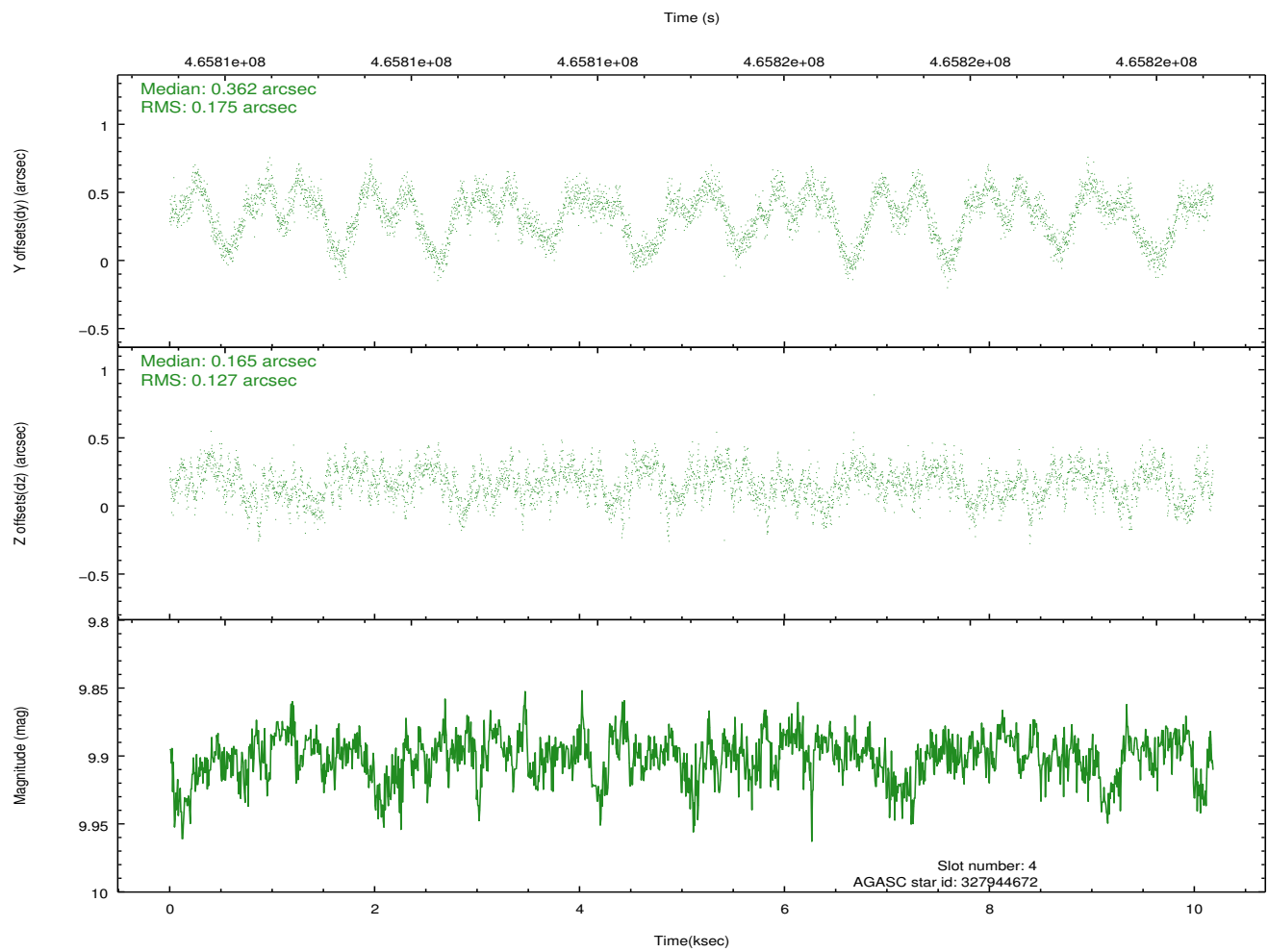
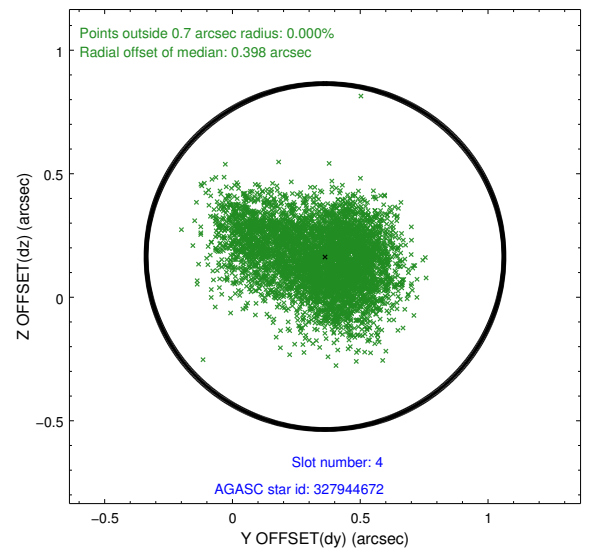
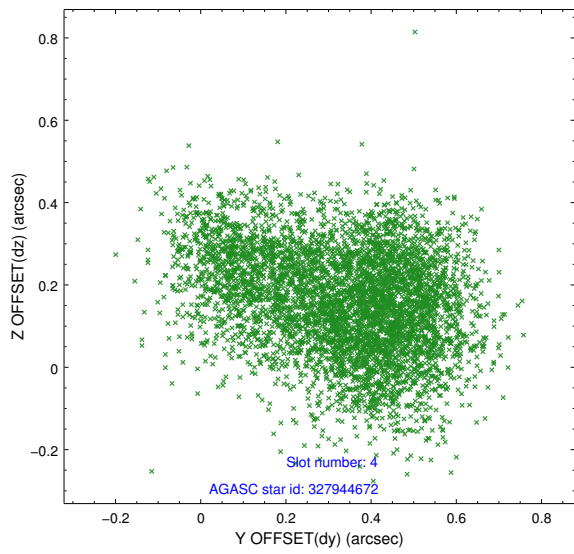
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2.4 Star Slots

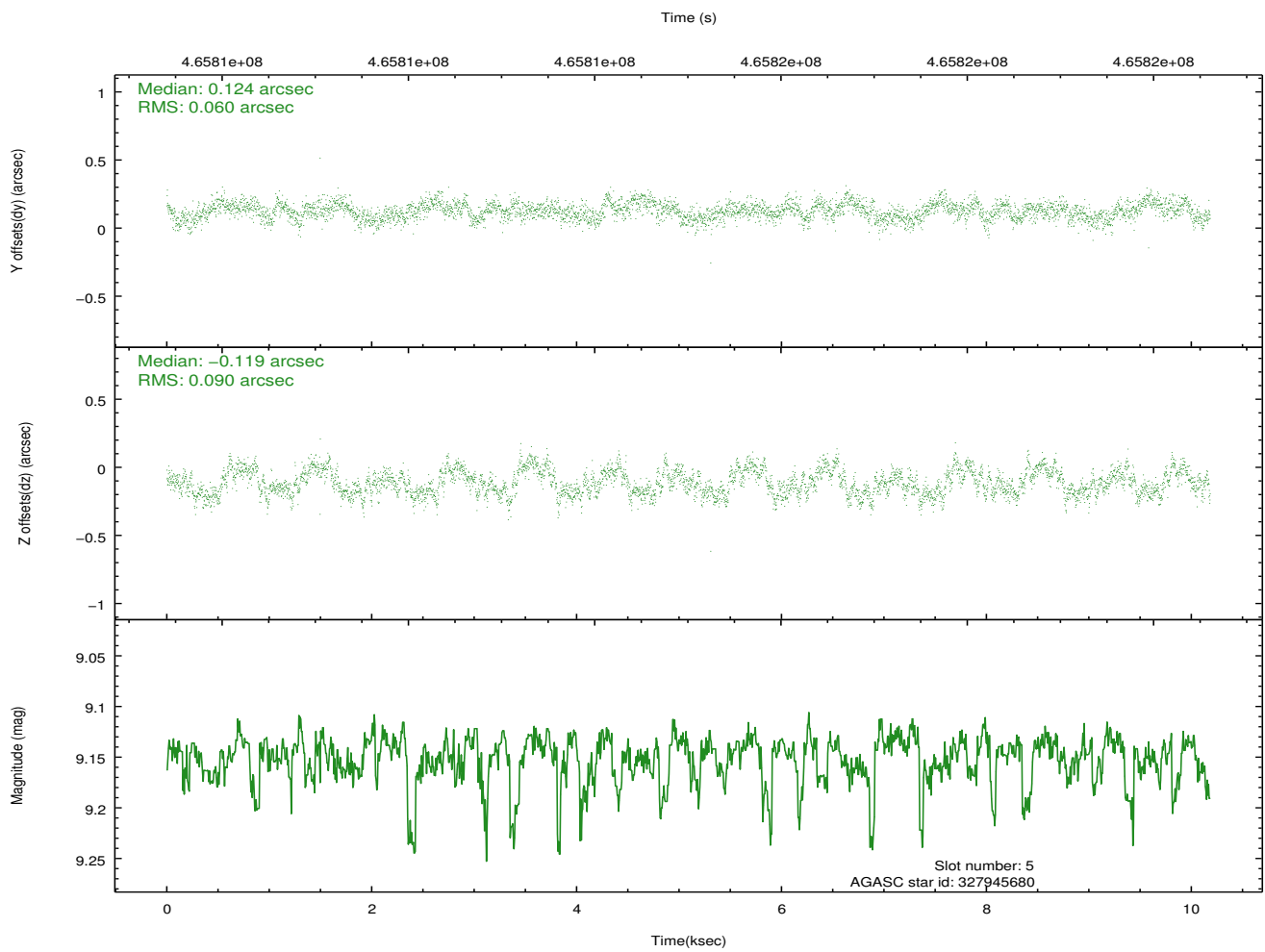
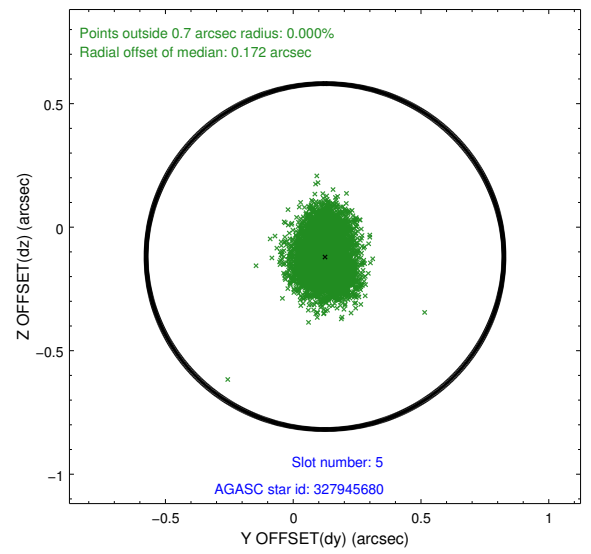
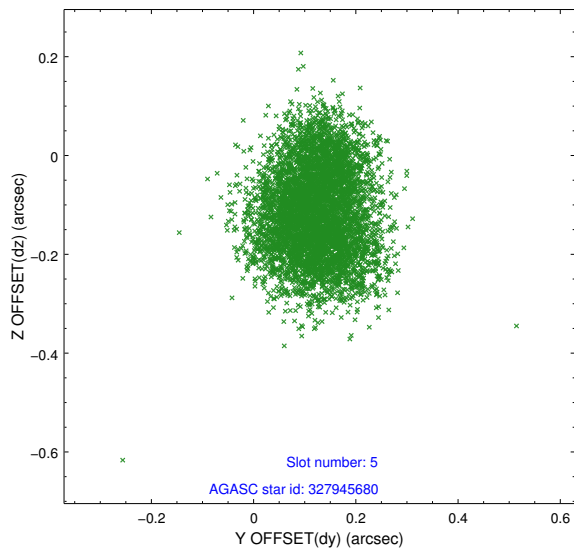
2.4.1 Slot 3



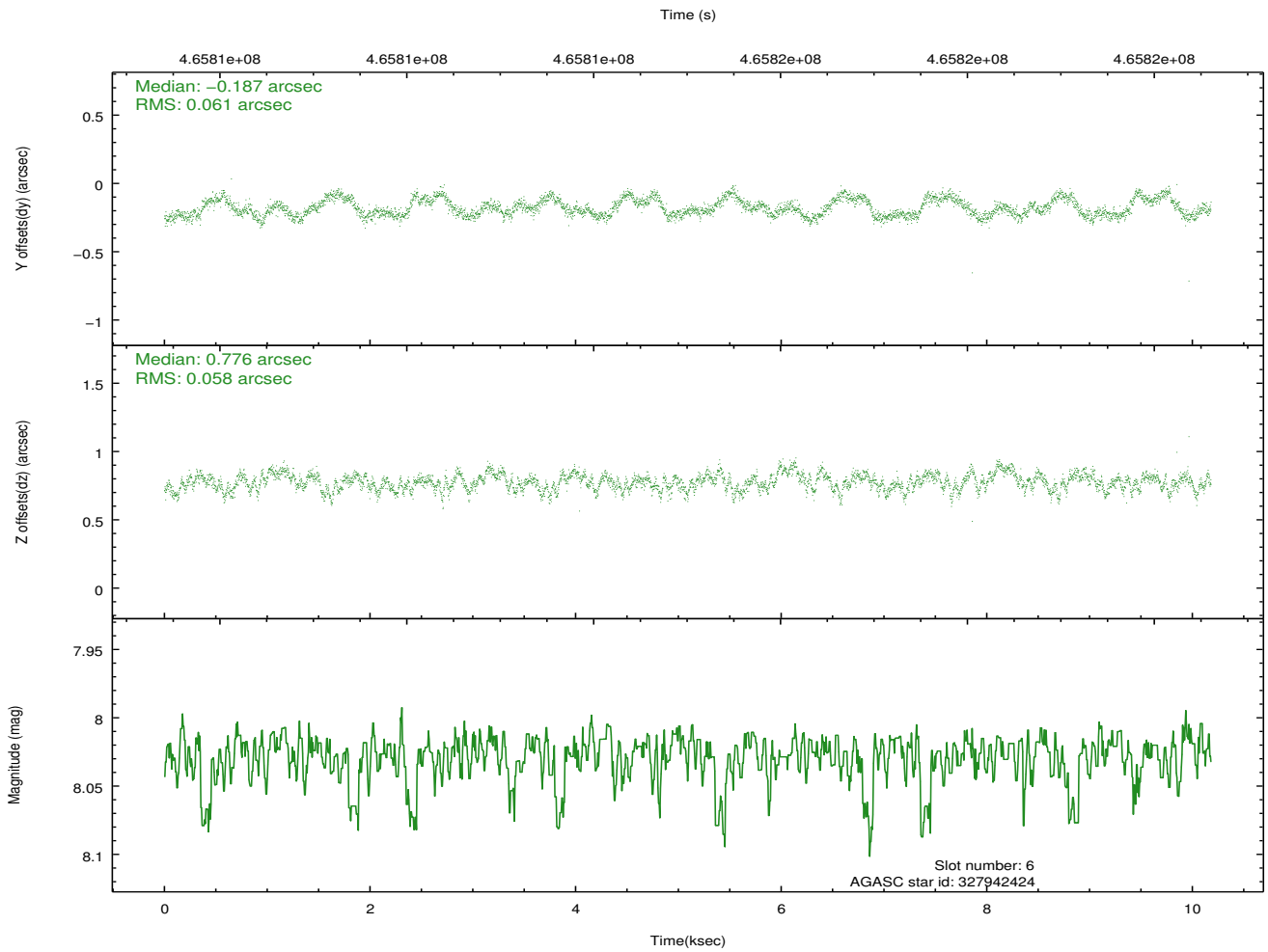
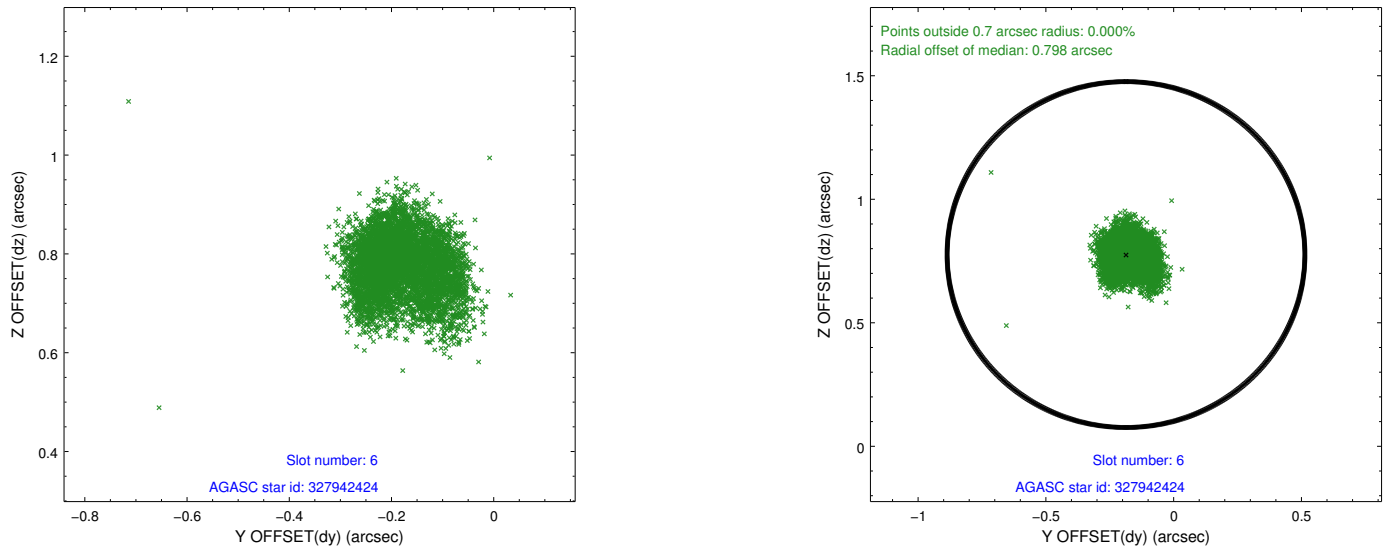
2.4.2 Slot 4



2.4.3 Slot 5

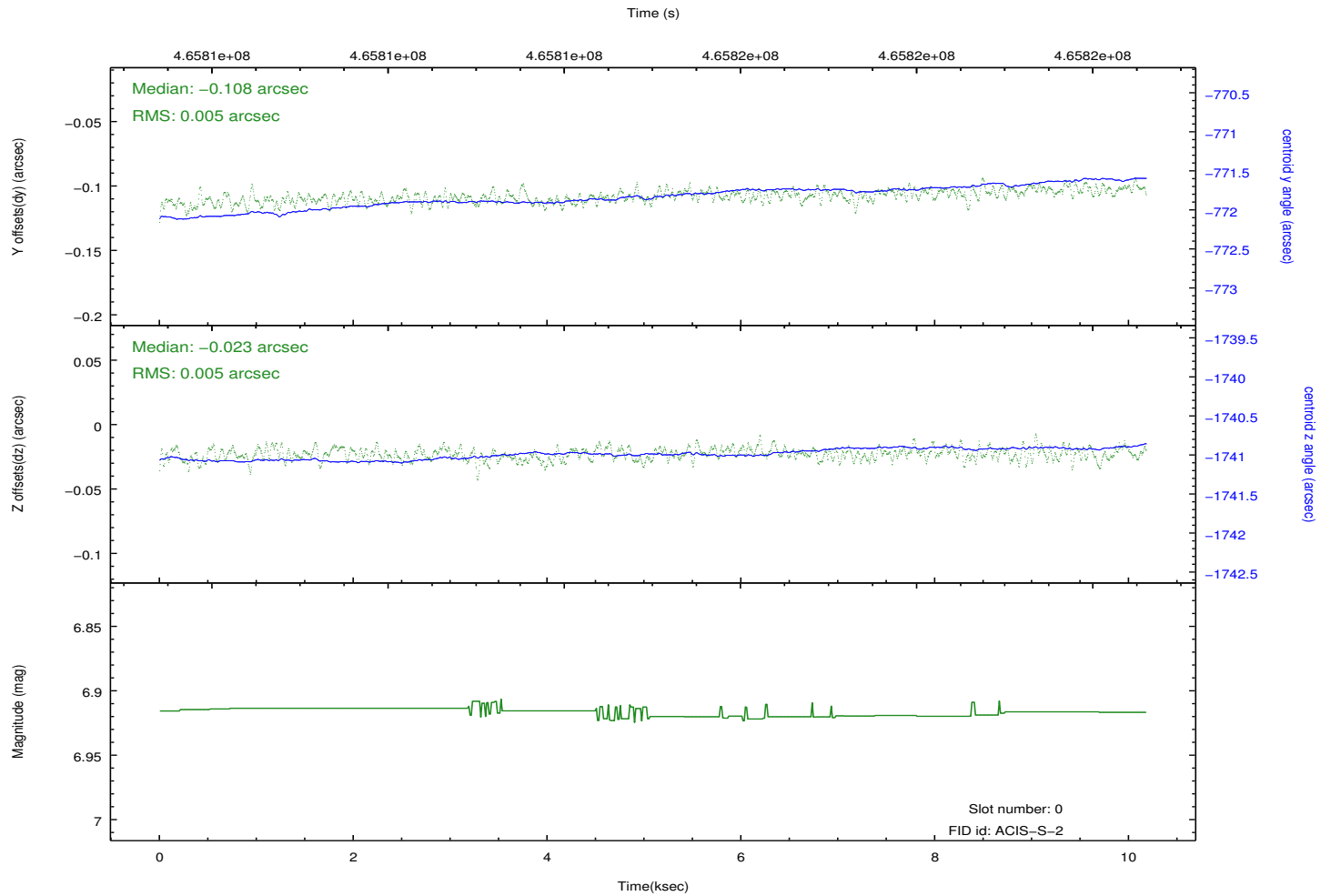
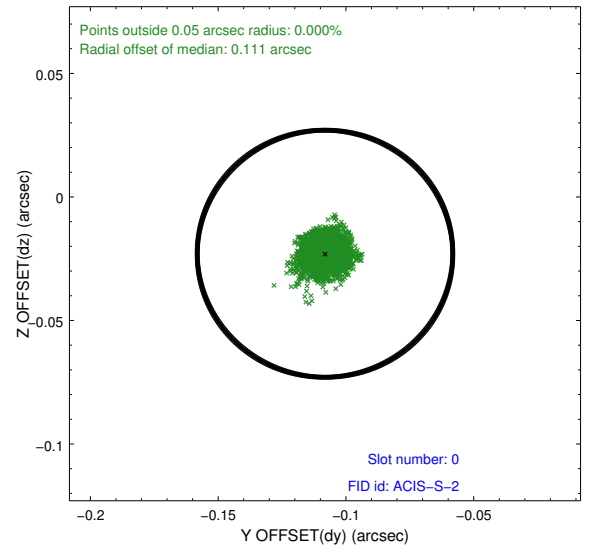
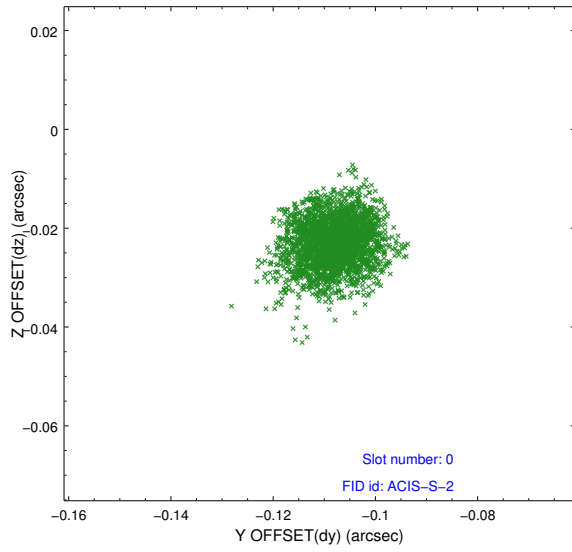


2.4.4 Slot 6

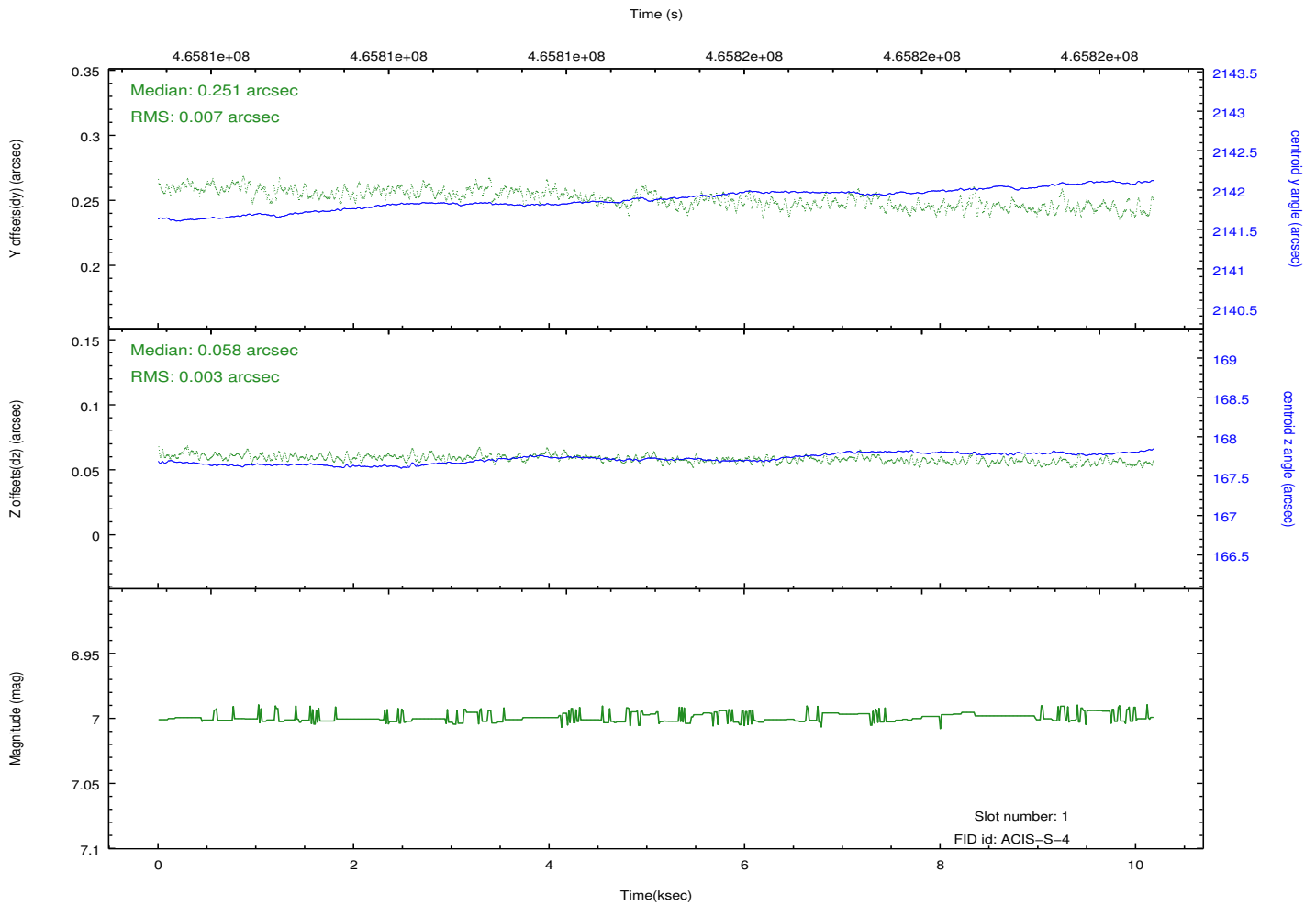
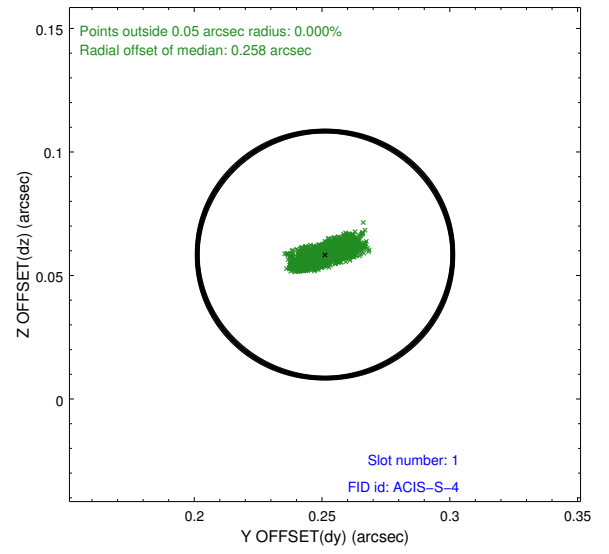
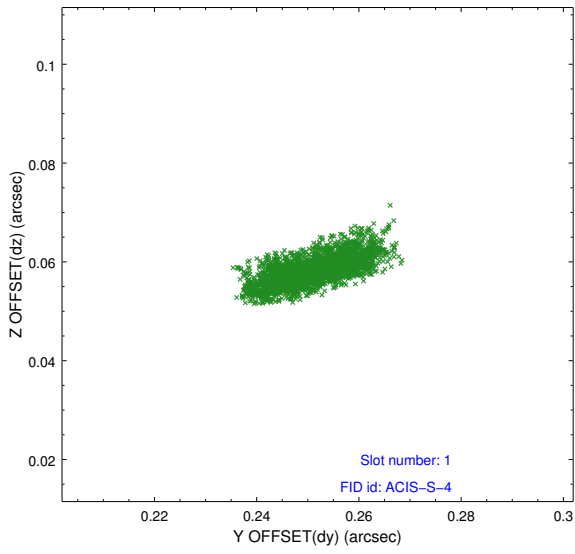


2.5 FID Slots

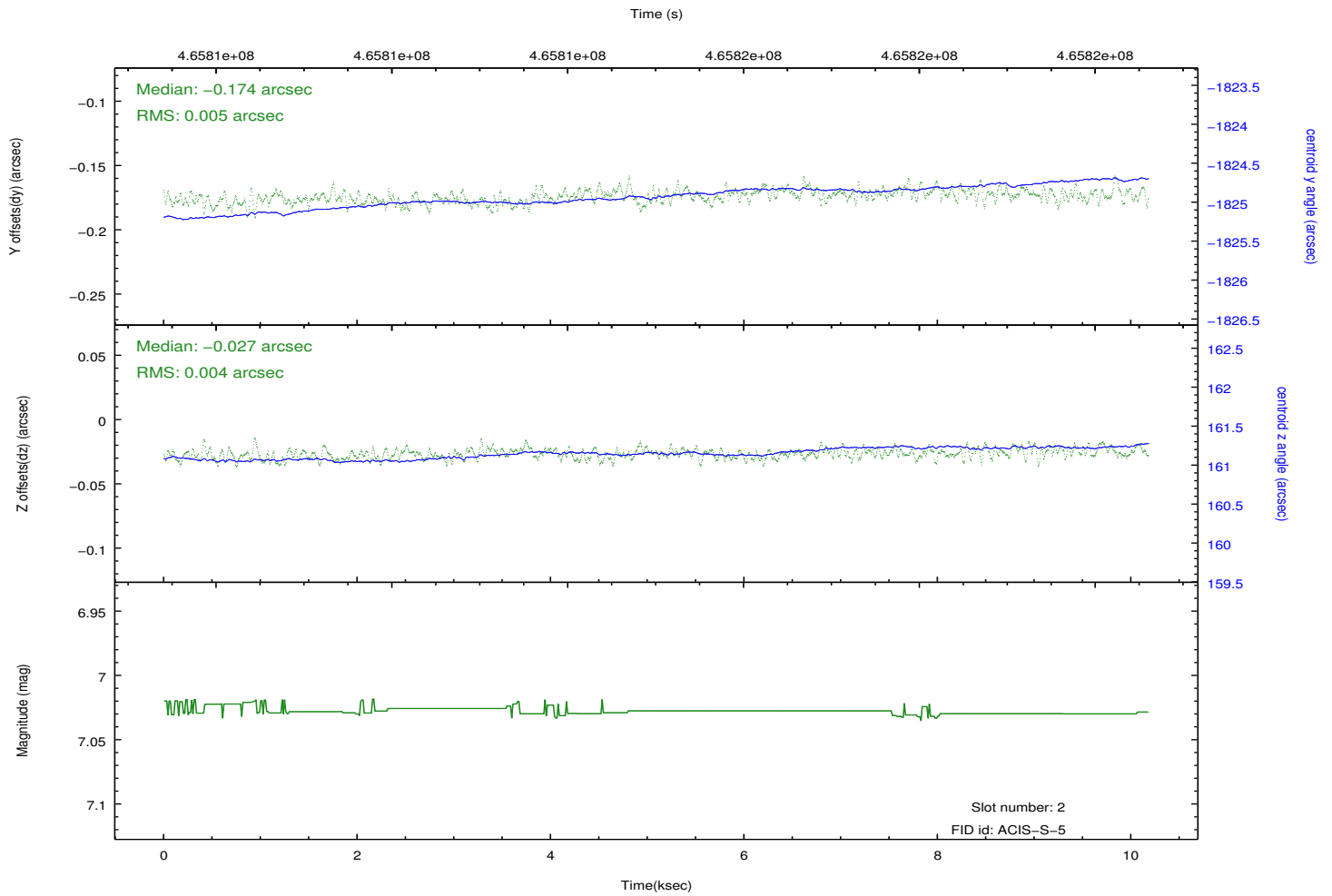
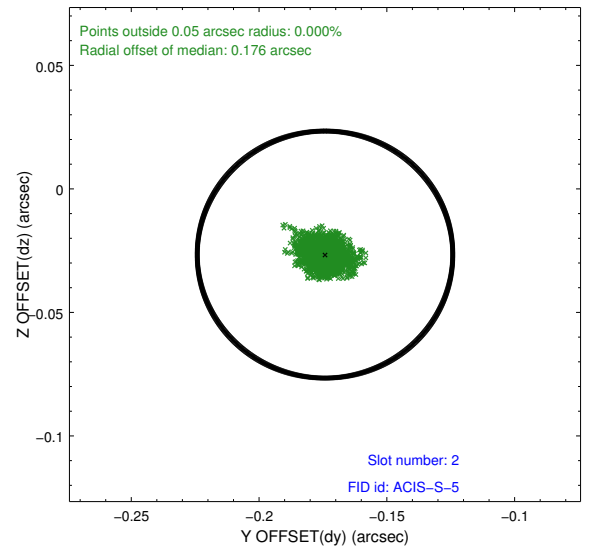
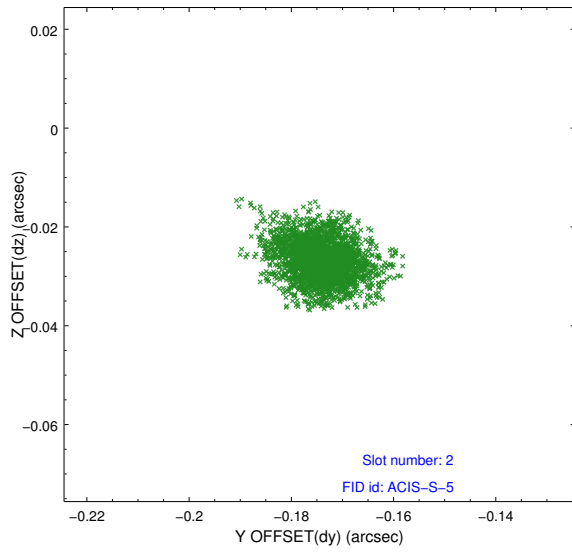
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.060800149977

A.2 Comments

Guide star in slot 7 was neither found nor tracked. Aspect solution is not considered to be degraded by the loss of one guide star.

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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.