

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15203 - L2 Version 2
Chandra X-Ray Center

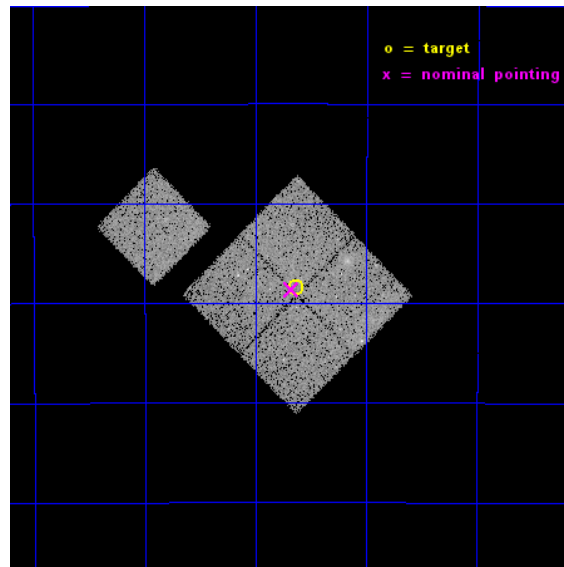
L2 Processing Date : Dec 3 2014

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1 Front

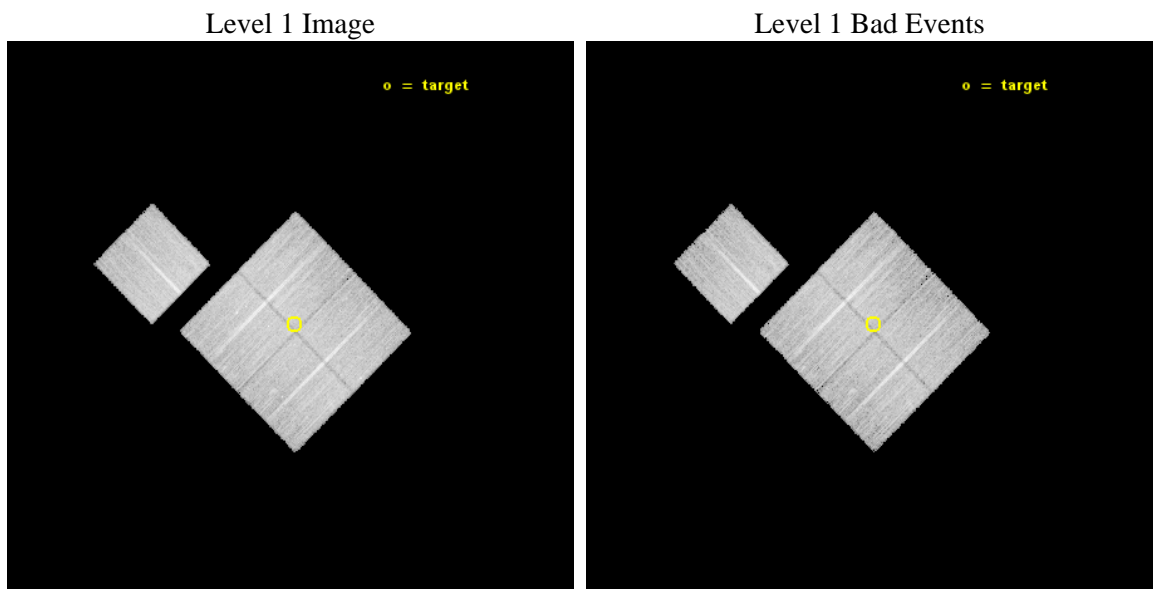
seq_num	901033	Sequence number
obs_id	15203	Observation id
title	Studying Giant Filamentary Lobes of Centaurus A	Proposal title
observer	Dr. Yasuyuki Tanaka	Principal investigator
object	Cen A Northern Lobe 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.1597	Observer's specified target RA [deg]
dec_targ	-39.3069	Observer's specified target Dec [deg]
ra_nom	201.16895902351	Nominal RA [deg]
dec_nom	-39.310610399696	Nominal Dec [deg]
roll_nom	315.2145512804	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20078.201996565	Sum of GTIs [s]
livetime	19815.865506122	Livetime [s]
ontime0	20081.219926775	Sum of GTIs [s]
ontime1	20081.260966778	Sum of GTIs [s]
ontime2	20078.160935998	Sum of GTIs [s]
ontime3	20078.201996565	Sum of GTIs [s]
ontime6	20081.178886771	Sum of GTIs [s]
l2events	55565	Number of level 2 events



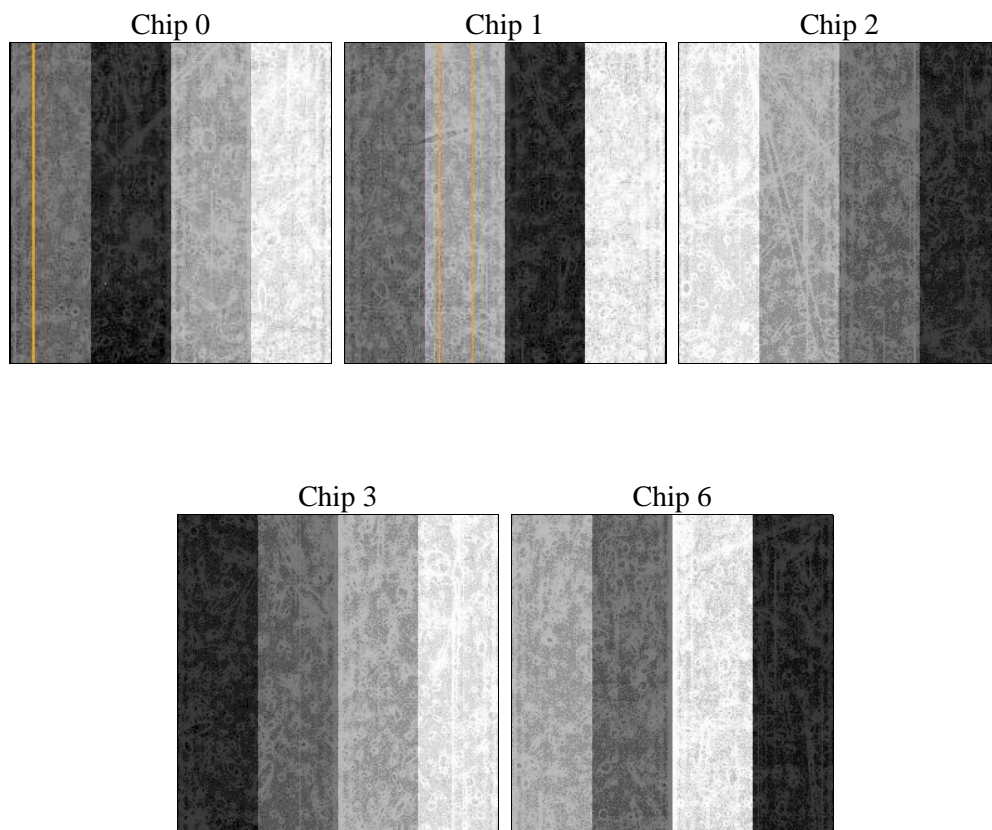
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20078.201996565	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	20081.219926775	Sum of GTIs [s]
date	2014-12-03T06:36:32	Date and time of file creation	ontime1	20081.260966778	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20078.160935998	Sum of GTIs [s]
			ontime3	20078.201996565	Sum of GTIs [s]
			ontime6	20081.178886771	Sum of GTIs [s]
			l1events	519213	Number of level 1 events

2.1.4 Events

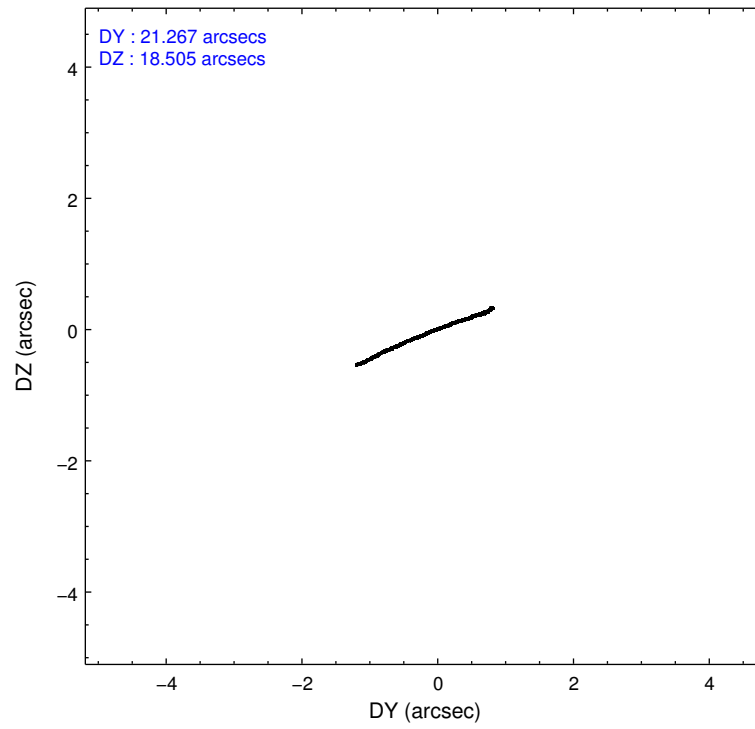
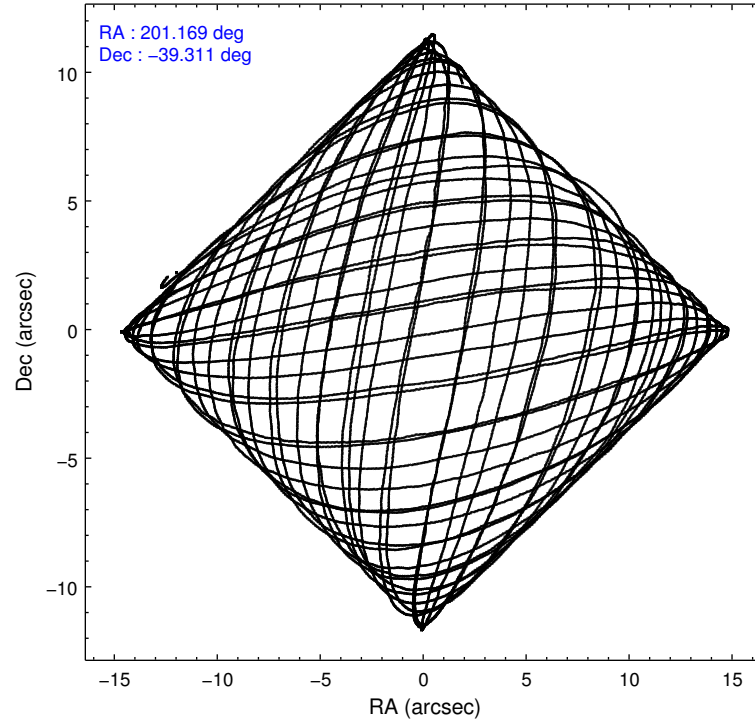
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	100023	98337	110006	104500	106347
rejected events	87326	83687	97293	92314	93427
rejected %	87%	85%	88%	88%	87%

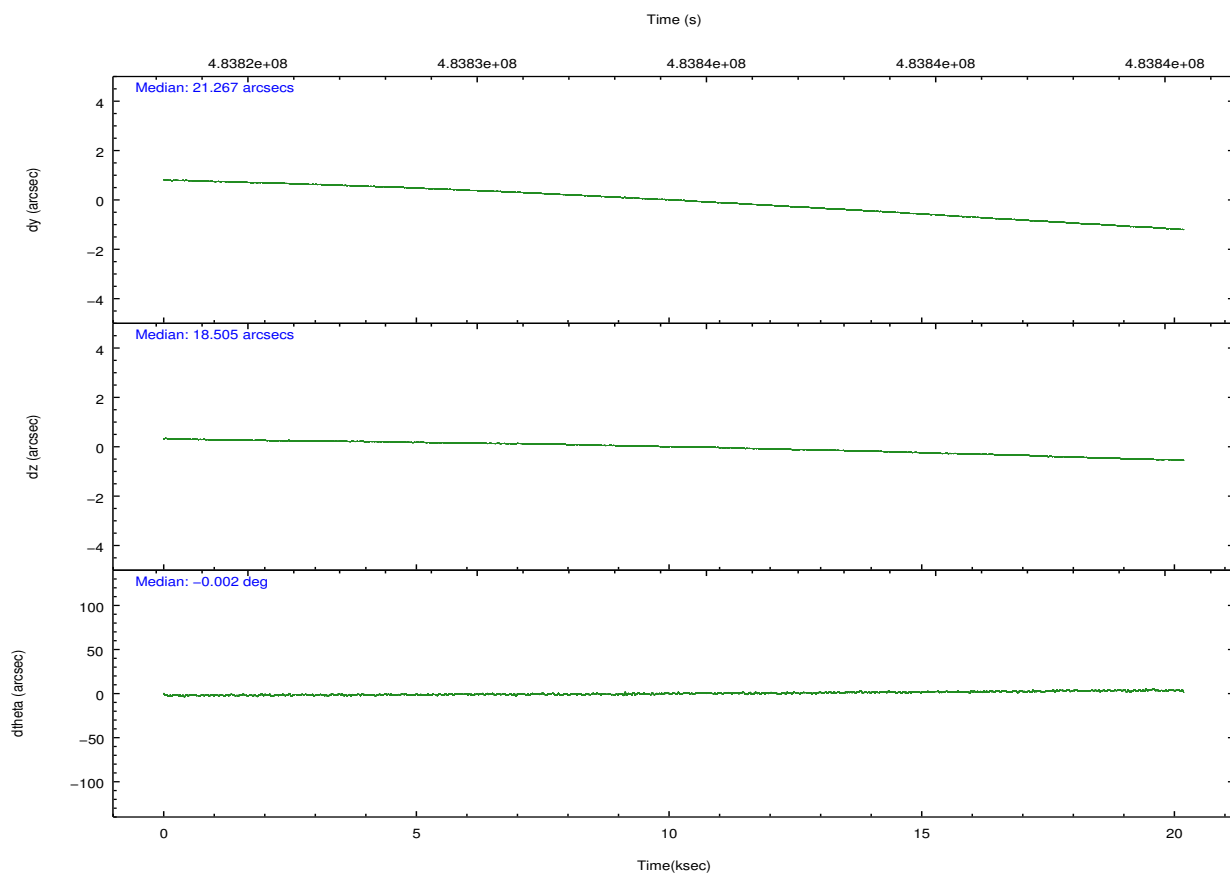
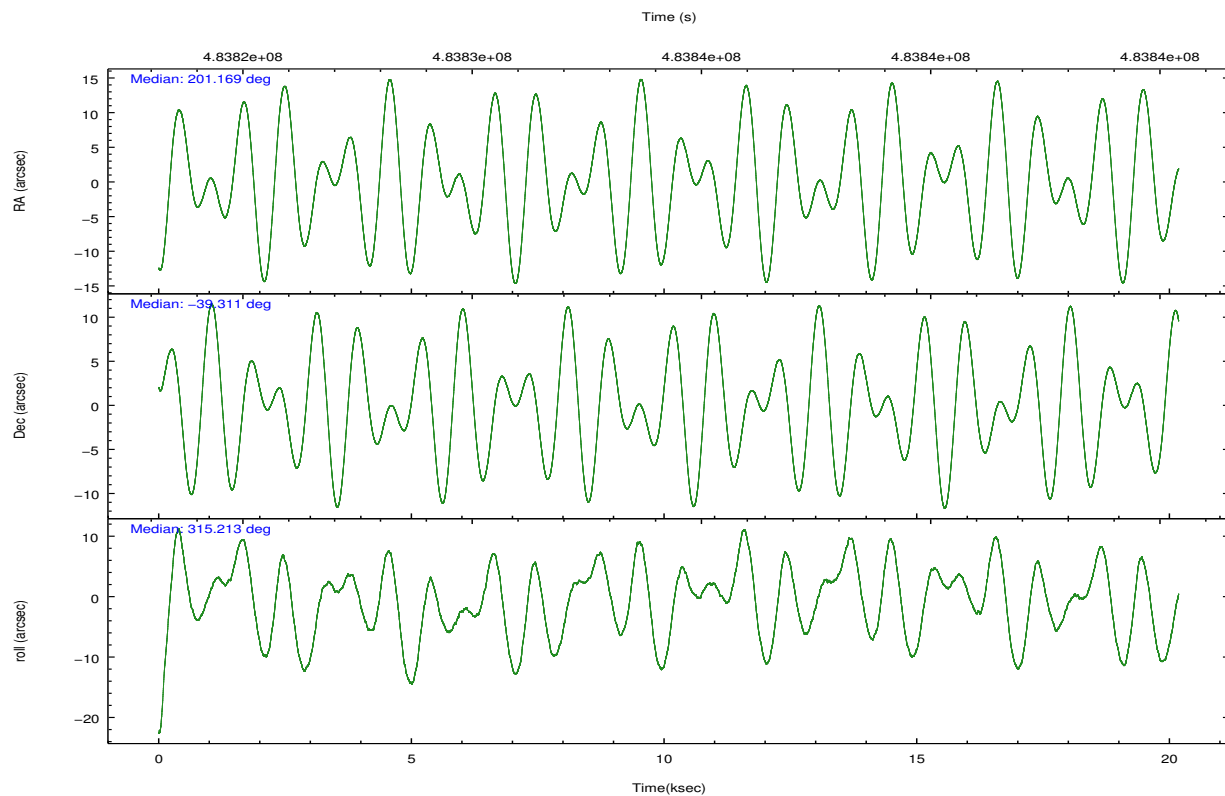
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4511	5804	4800	4443	4533
	4%	5%	4%	4%	4%
grade 1 events	62	60	68	67	50
	0%	0%	0%	0%	0%
grade 2 events	3163	3163	3058	2712	2791
	3%	3%	2%	2%	2%
grade 3 events	1340	1398	1225	1264	1334
	1%	1%	1%	1%	1%
grade 4 events	1150	1353	1258	1280	1345
	1%	1%	1%	1%	1%
grade 5 events	4928	5334	4523	5541	5252
	4%	5%	4%	5%	4%
grade 6 events	2538	2938	2375	2490	2921
	2%	2%	2%	2%	2%
grade 7 events	82331	78287	92699	86703	88121
	82%	79%	84%	82%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	201.134573	201.1689590235143	Subarray requested	NONE	NONE
[deg] Pointing Dec	-39.303723	-39.31061039969551	Alternating exposures requested	N	N
[deg] Pointing Roll	314.984082	315.2145512803954	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	483824376.184000	483822928.00541			
Observation start date	2013-05-01T19:38:29	2013-05-01T19:15:28			
[s] Observation end time (MET)	483844376.184000	483845227.90662			
Observation end date	2013-05-02T01:11:49	2013-05-02T01:27:07			
Read mode	TIMED	TIMED			

2.3 Aspect



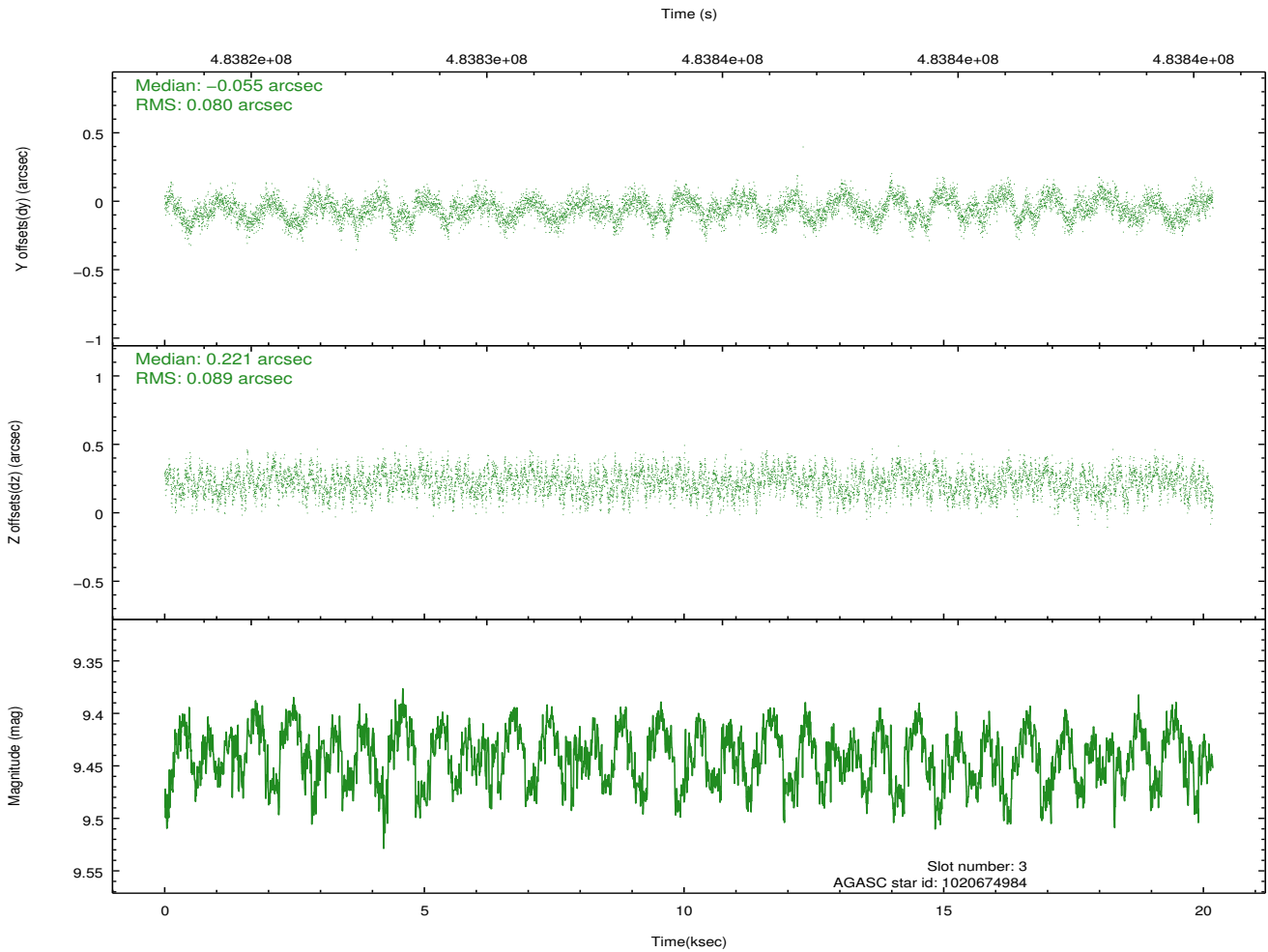
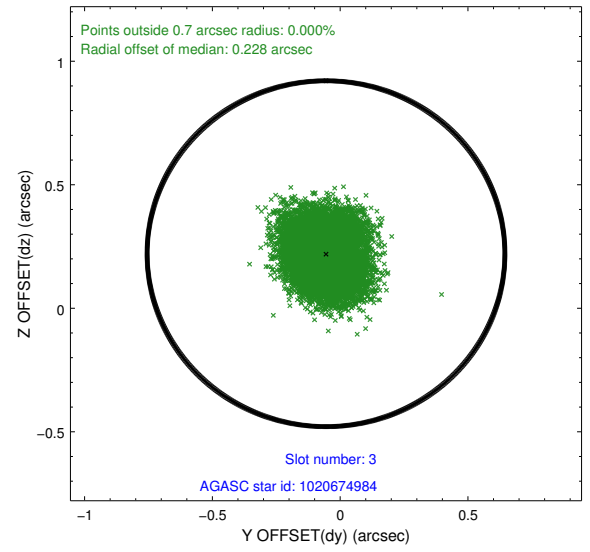
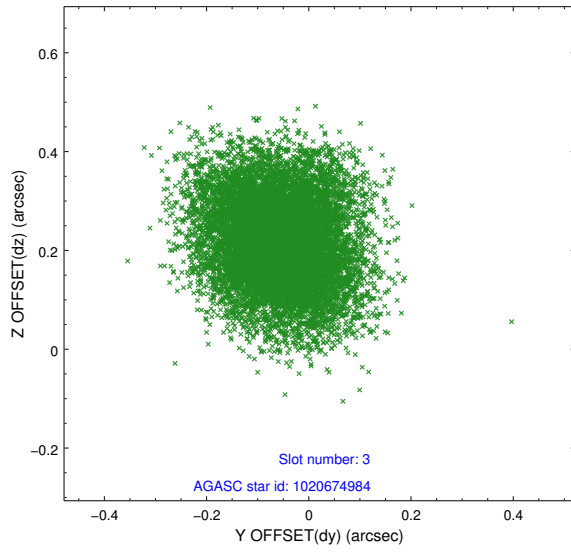


Slot Statistics

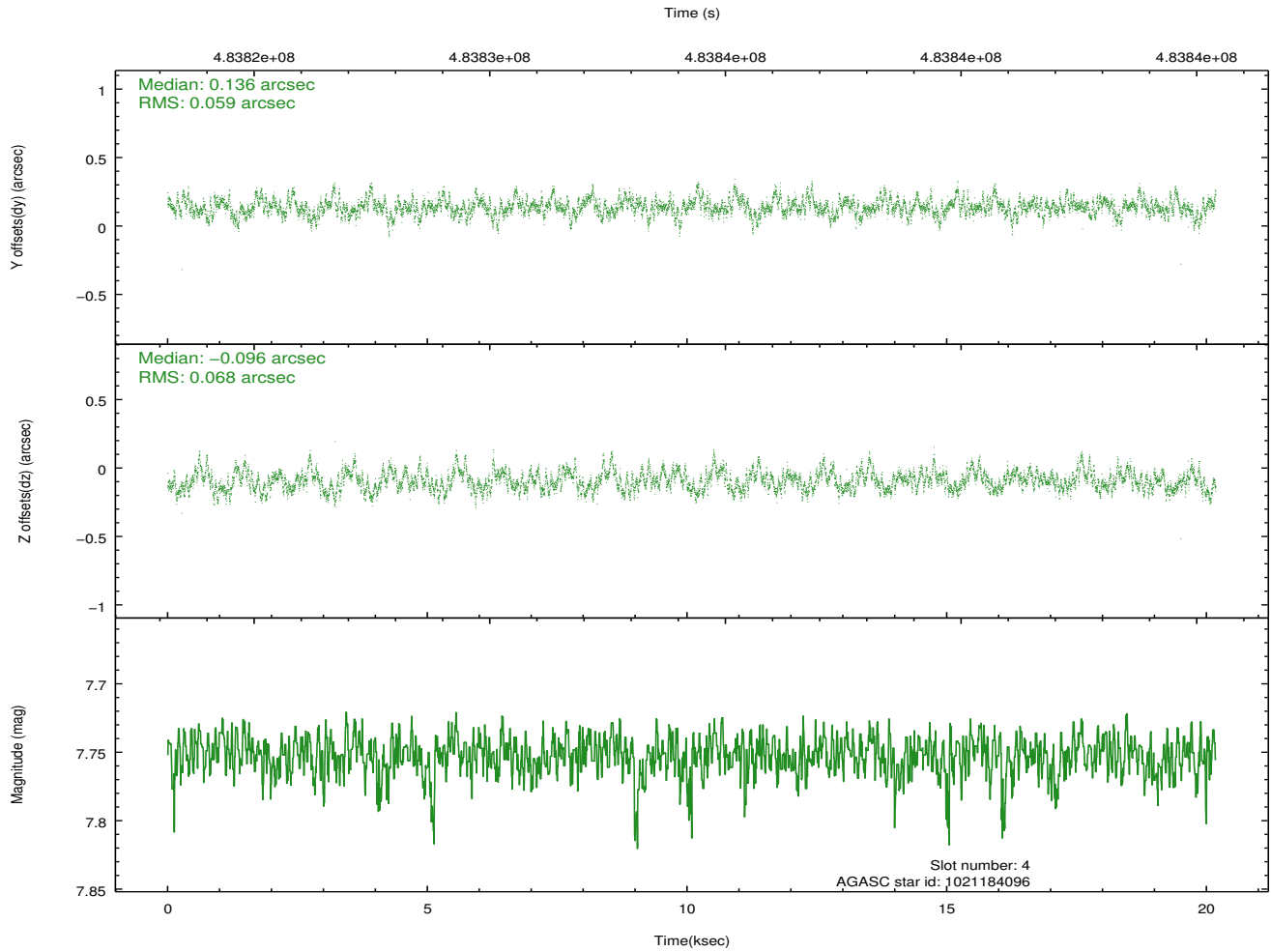
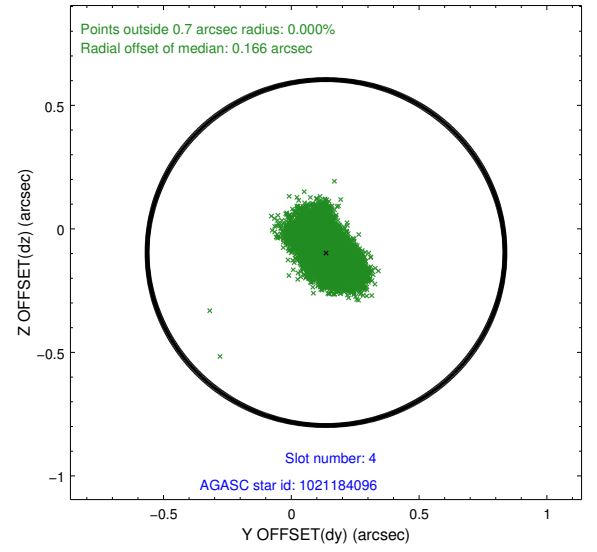
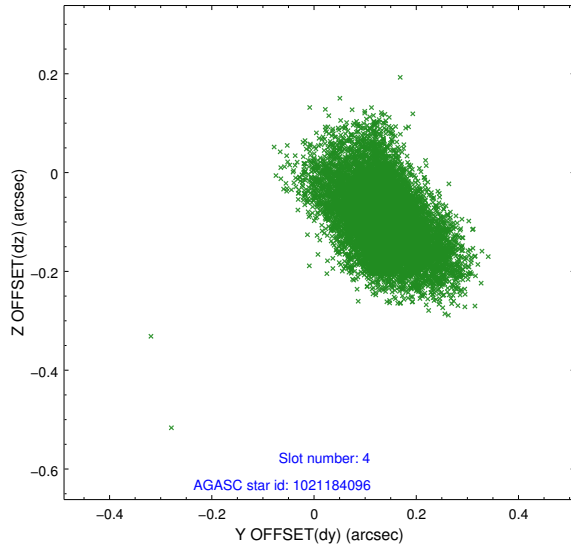
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.05	4921	0.015	-0.077	0.011	0.022	0.000000	0.000000	-776.07	-848.58
1	FID		ACIS-I-5	7.15	4922	-0.252	0.068	0.009	0.015	0.000000	0.000000	-1830.51	1055.32
2	FID		ACIS-I-6	7.15	4922	0.143	0.078	0.009	0.015	0.000000	0.000000	383.58	1700.04
3	GUIDE	used	1020674984	9.44	9835	-0.055	0.221	0.129	0.203	201.228908	-38.866476	-926.12	1299.89
4	GUIDE	used	1021184096	7.75	9845	0.136	-0.096	0.094	0.164	200.846796	-39.627951	262.85	-1390.32
5	GUIDE	used	1021189536	9.63	9773	-0.031	0.039	0.187	0.295	201.369493	-39.932662	2060.91	-1142.53
6	GUIDE	used	1021192800	9.22	9827	0.122	-0.005	0.109	0.173	201.897023	-39.498018	1998.86	996.53
7	GUIDE	used	1020668224	8.74	9835	-0.174	-0.155	0.118	0.197	201.999569	-39.291136	1680.08	1728.56

2.4 Star Slots

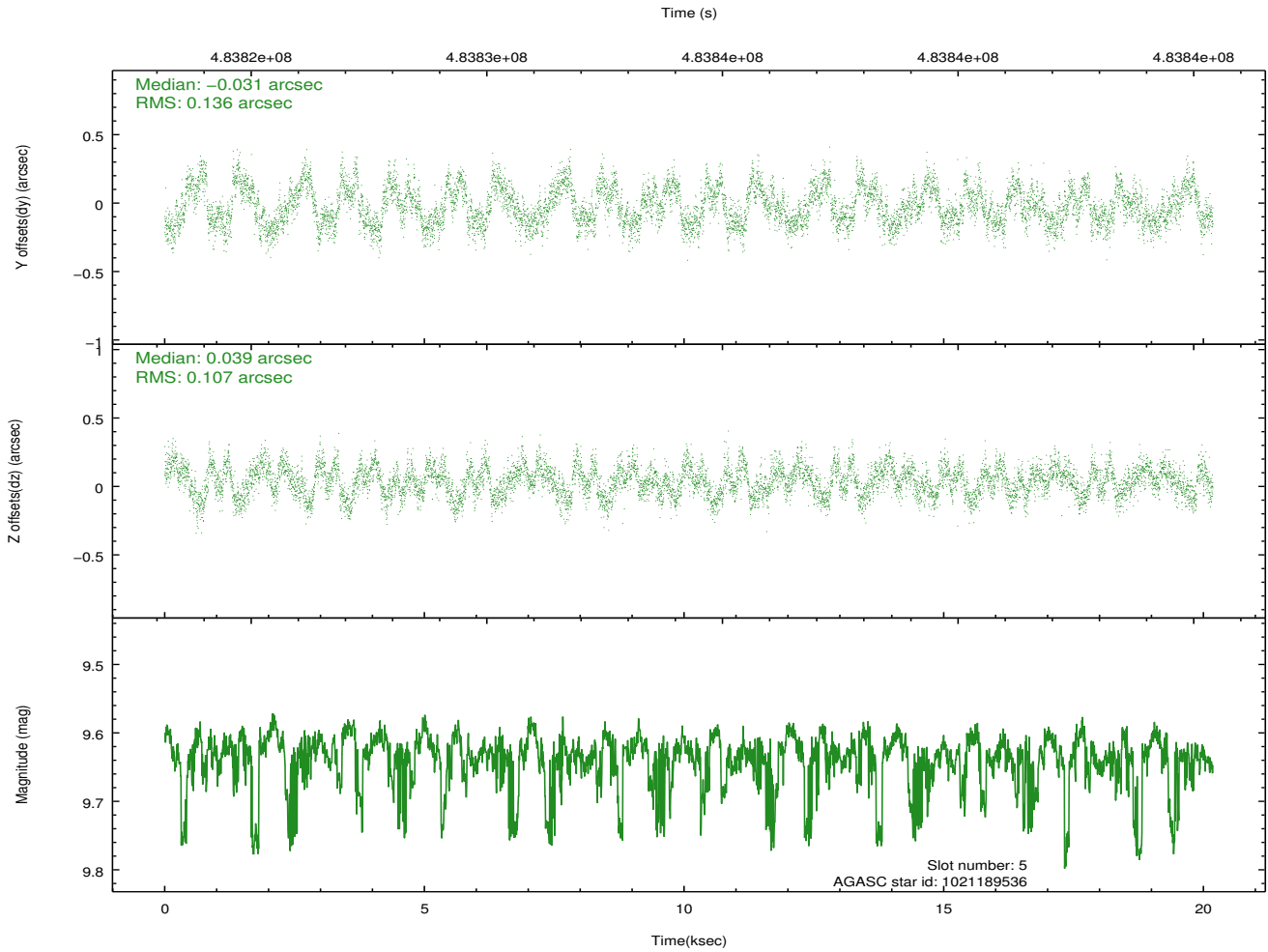
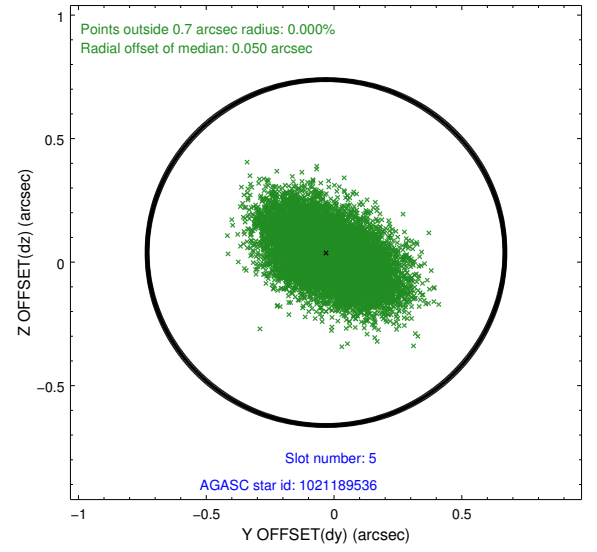
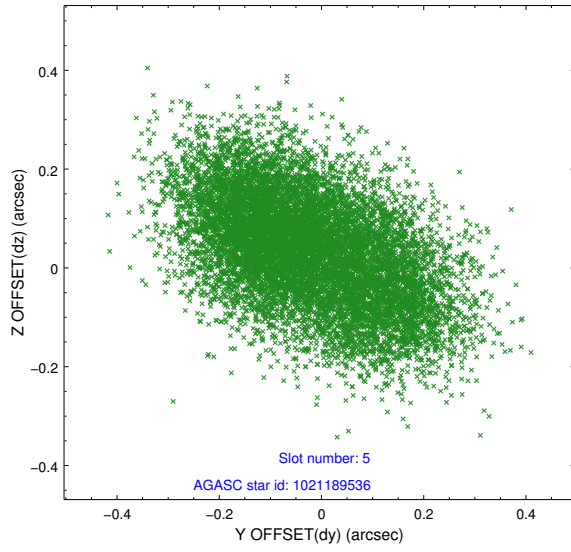
2.4.1 Slot 3



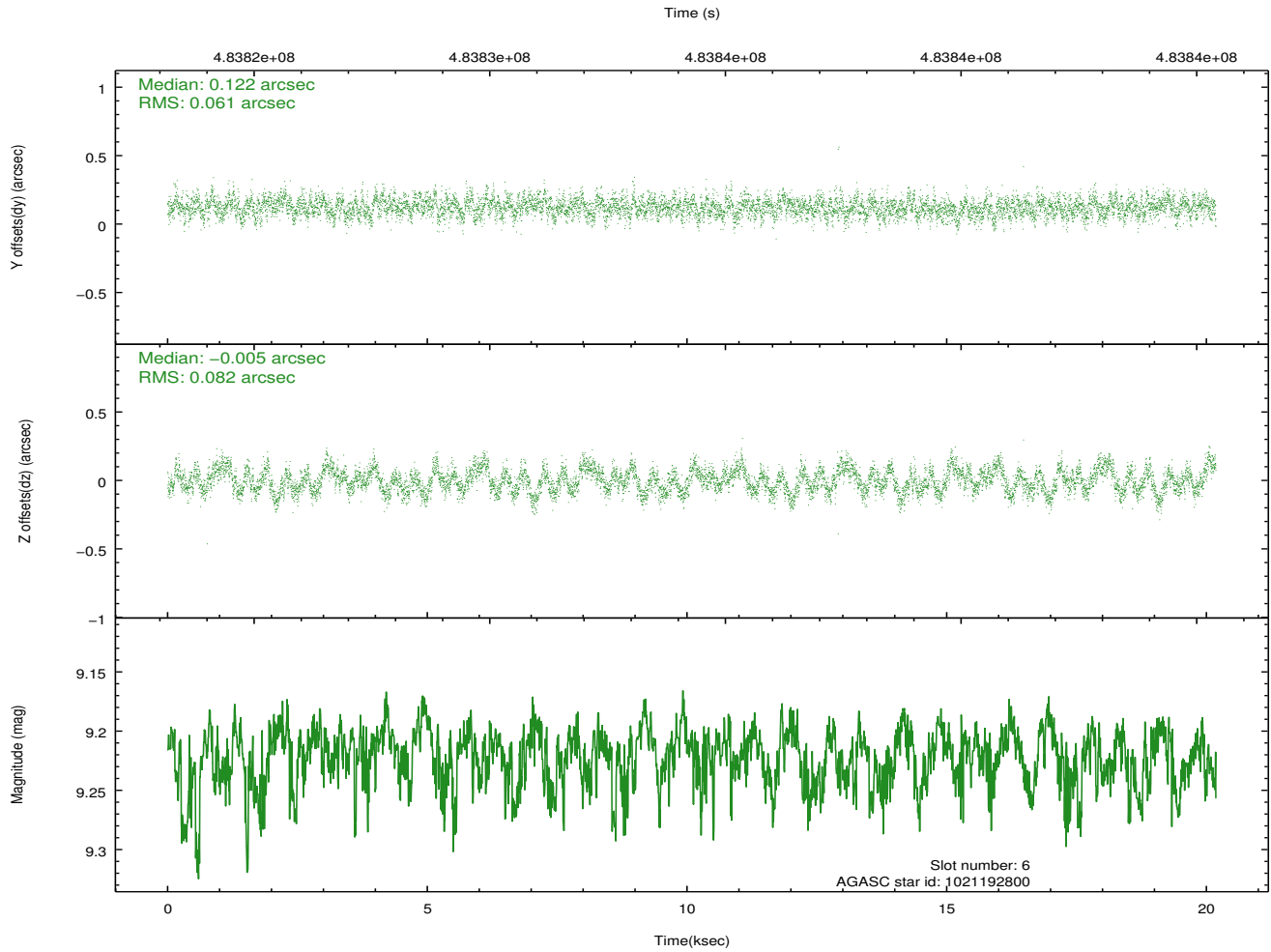
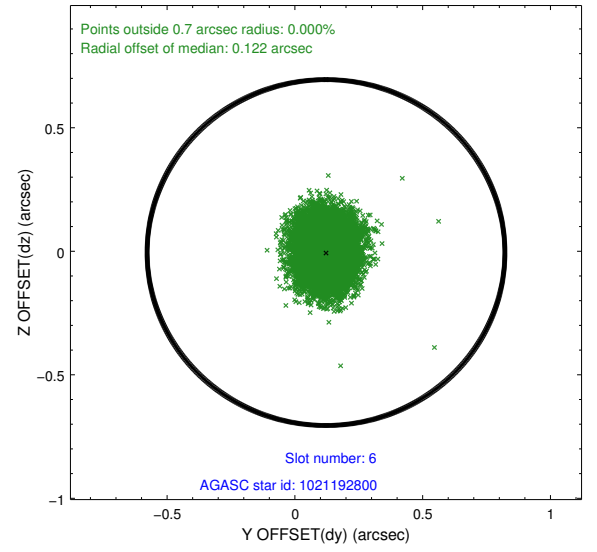
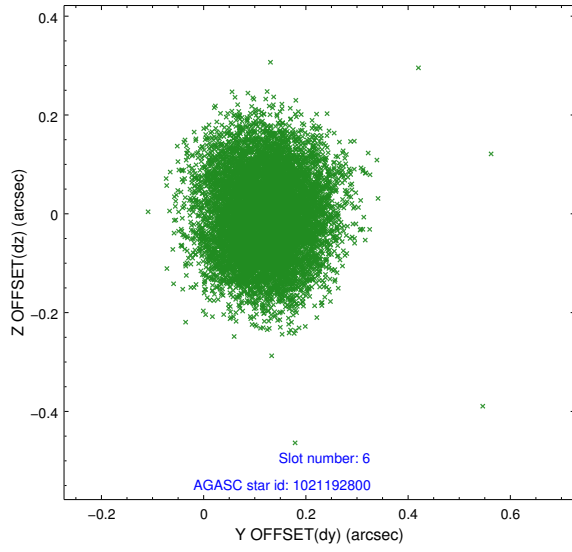
2.4.2 Slot 4



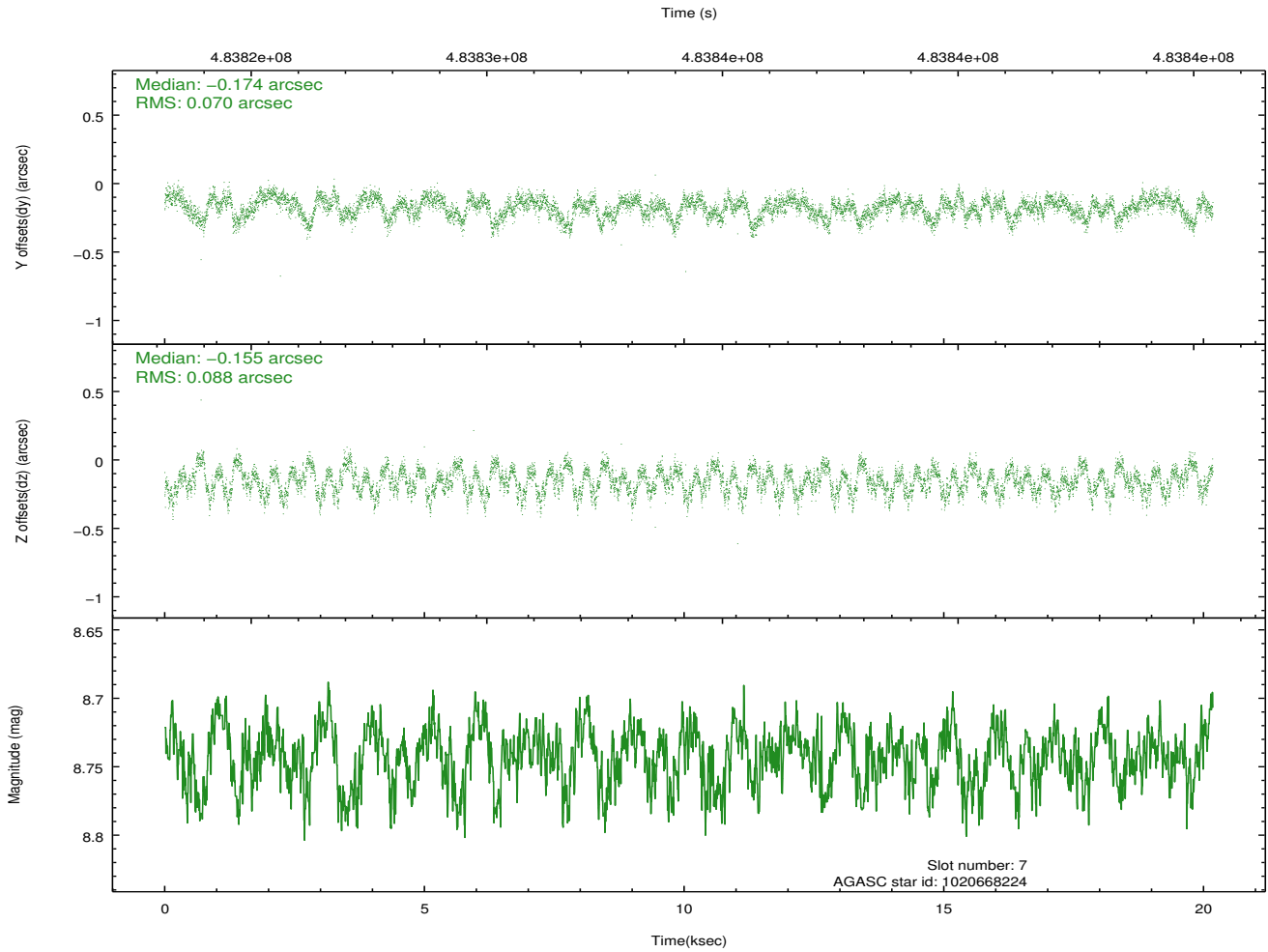
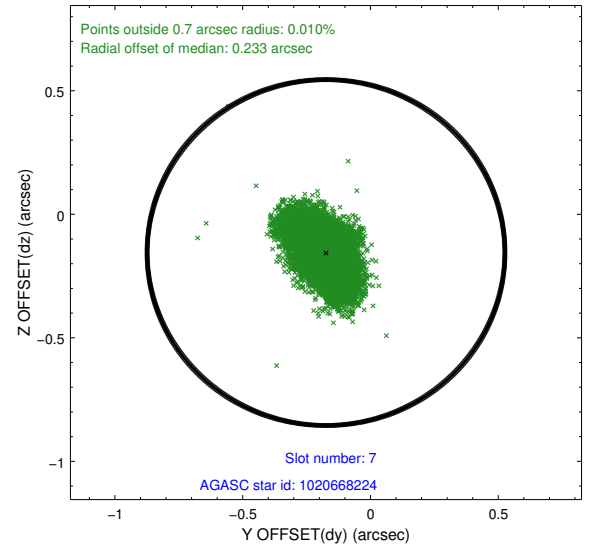
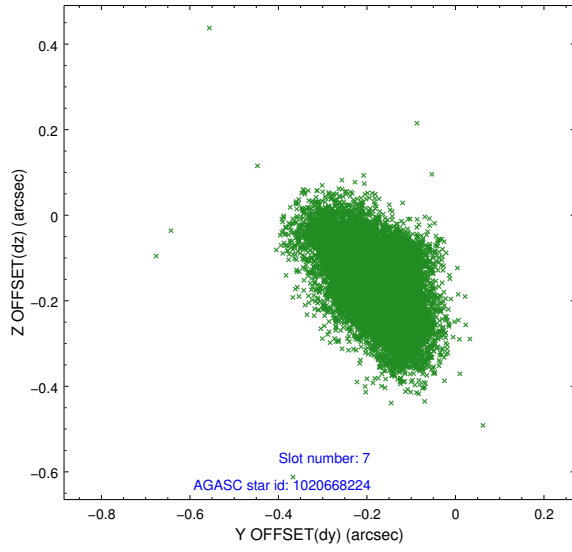
2.4.3 Slot 5



2.4.4 Slot 6

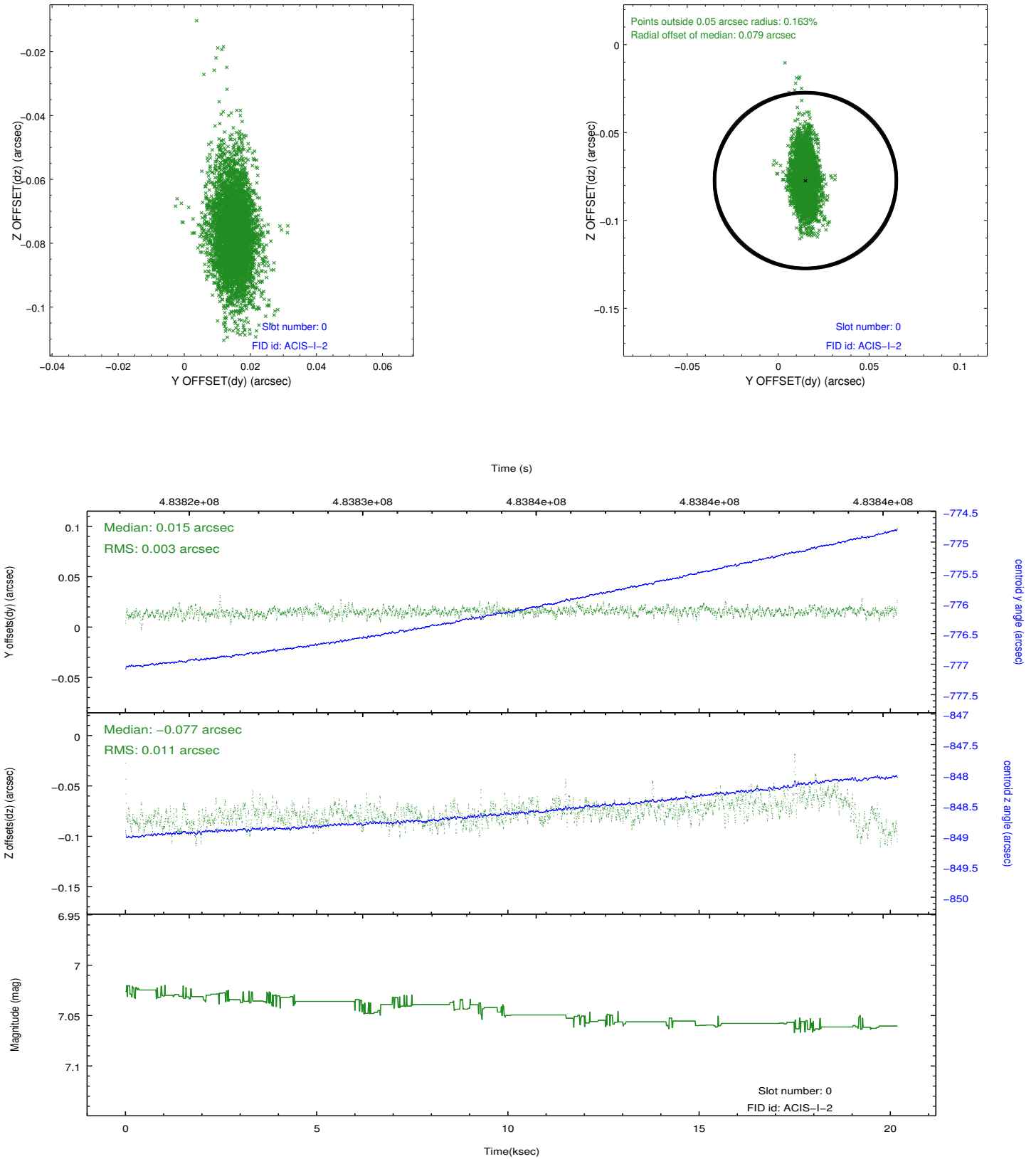


2.4.5 Slot 7

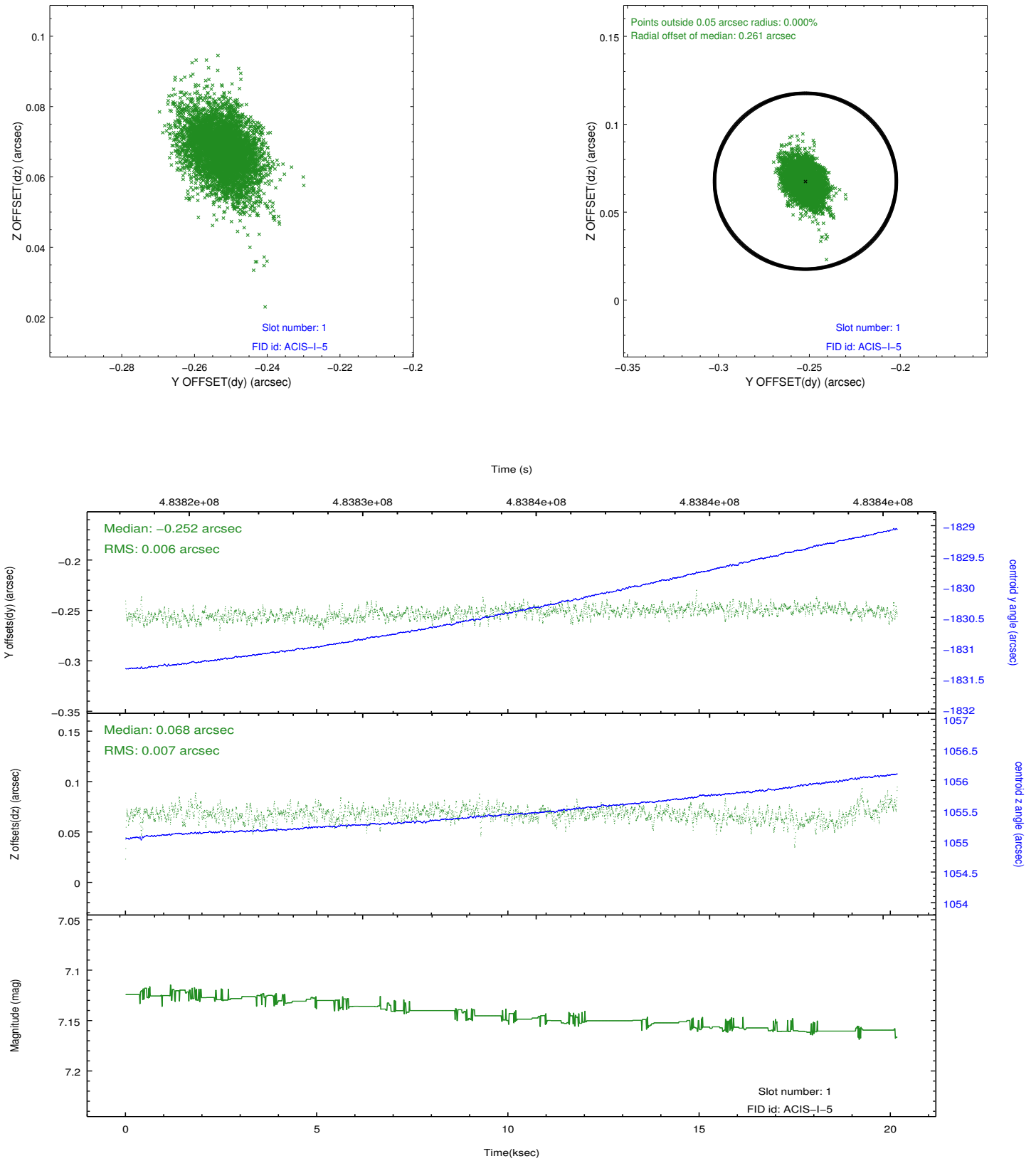


2.5 FID Slots

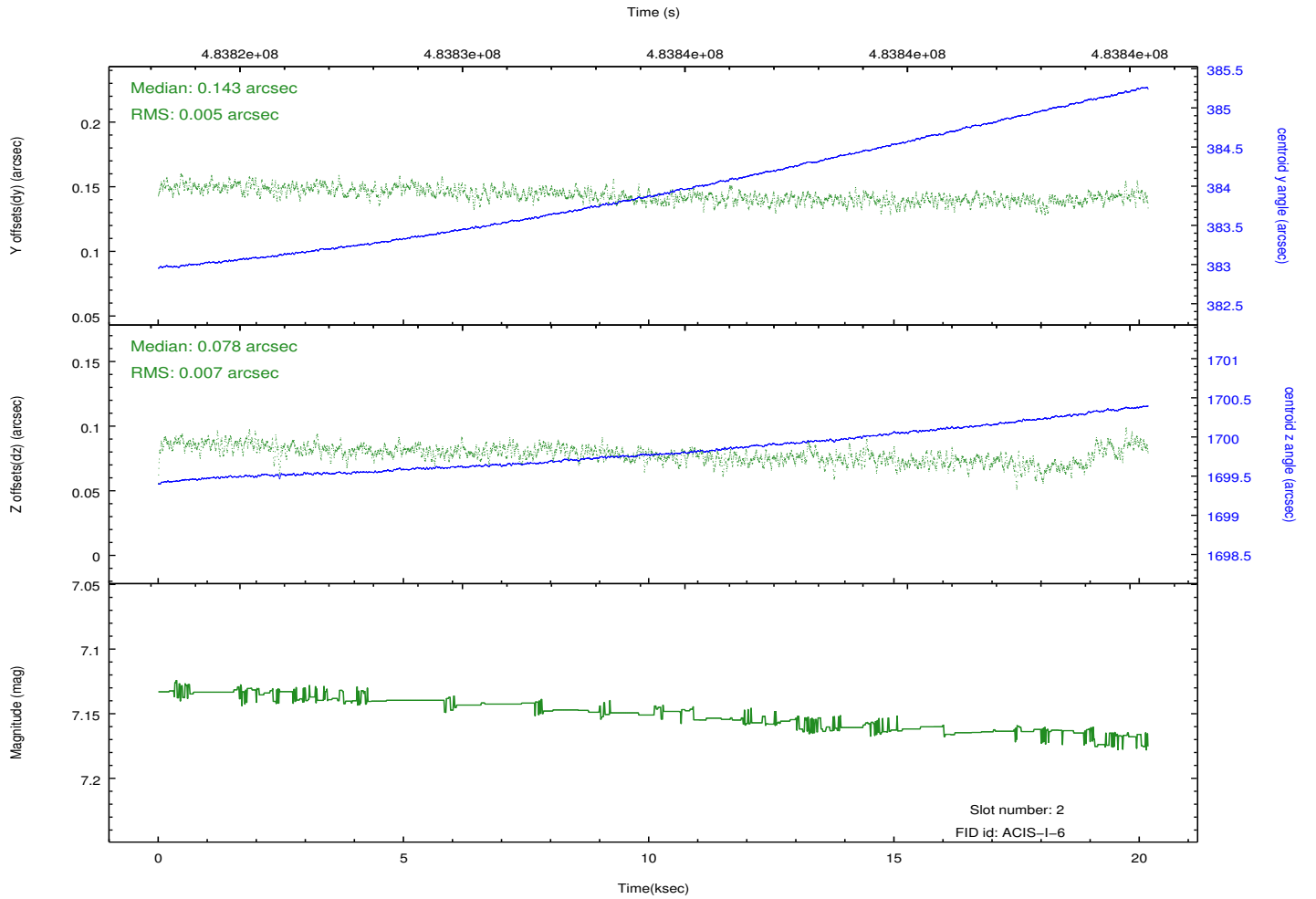
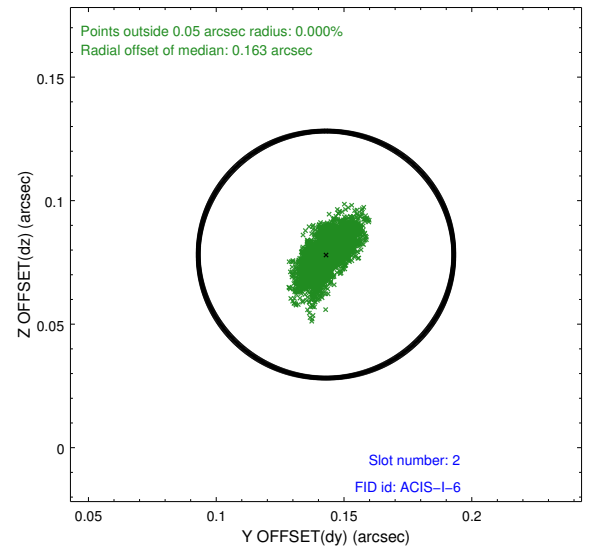
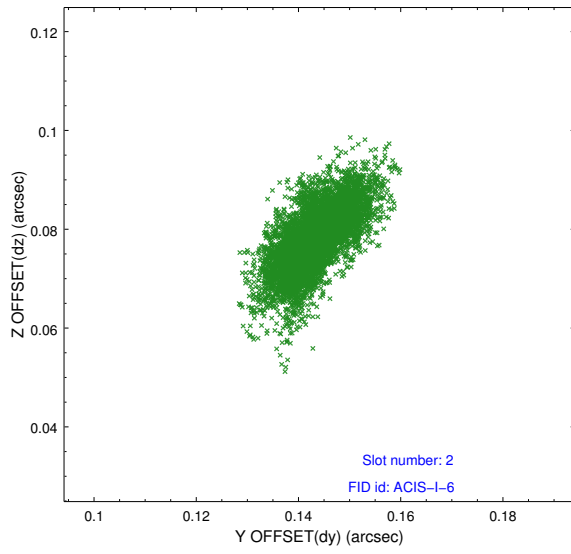
2.5.1 Slot 0



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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.078201996565

A.2 Comments

Joint proposal with Suzaku.

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.