

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16325 - L2 Version 2
Chandra X-Ray Center

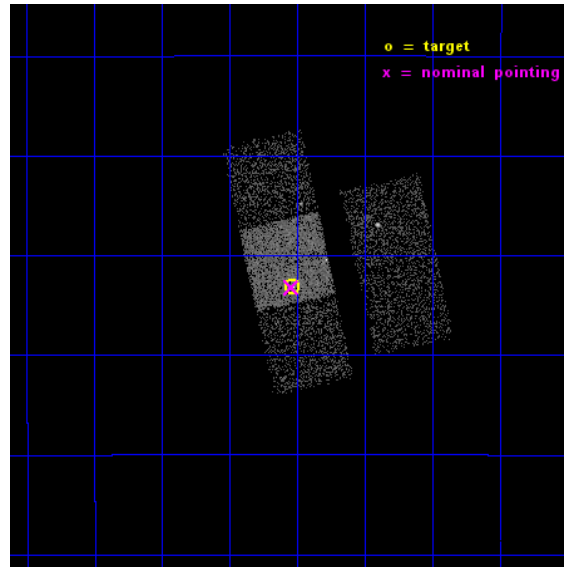
L2 Processing Date : Dec 12 2014

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1 Front

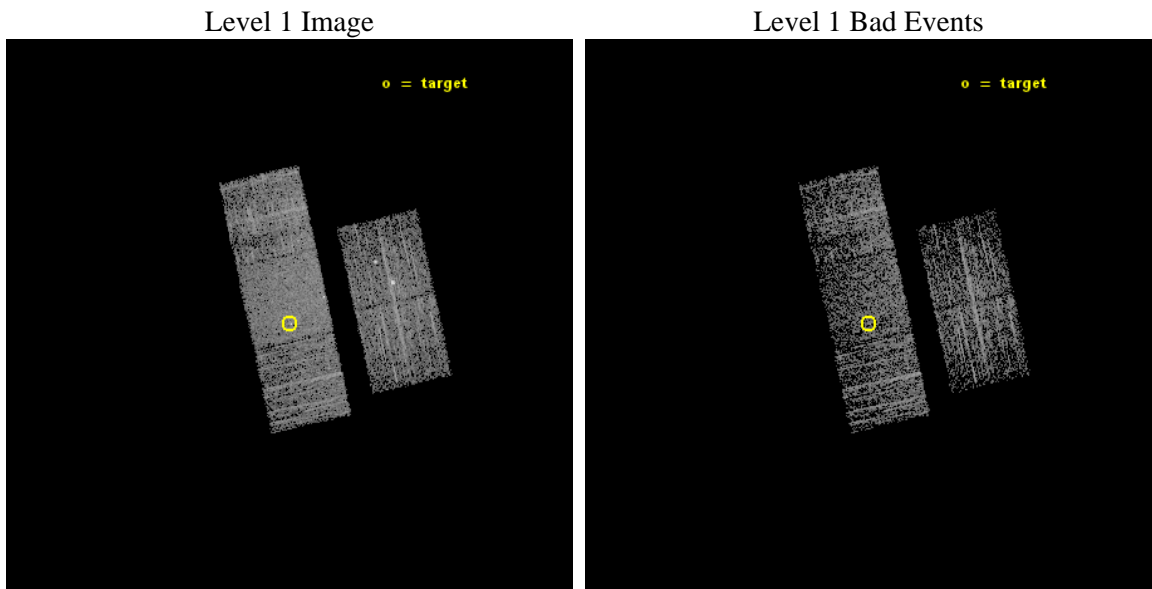
seq_num	200951	Sequence number
obs_id	16325	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16103196-1913062	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.633333	Observer's specified target RA [deg]
dec_targ	-19.218389	Observer's specified target Dec [deg]
ra_nom	242.63563957364	Nominal RA [deg]
dec_nom	-19.220488383981	Nominal Dec [deg]
roll_nom	257.49776611321	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3065.9000235796	Sum of GTIs [s]
livetime	3025.8417826888	Livetime [s]
ontime2	3065.9000235796	Sum of GTIs [s]
ontime3	3065.9000235796	Sum of GTIs [s]
ontime6	3065.9000235796	Sum of GTIs [s]
ontime7	3065.9000235796	Sum of GTIs [s]
ontime8	3065.9000235796	Sum of GTIs [s]
l2events	15893	Number of level 2 events



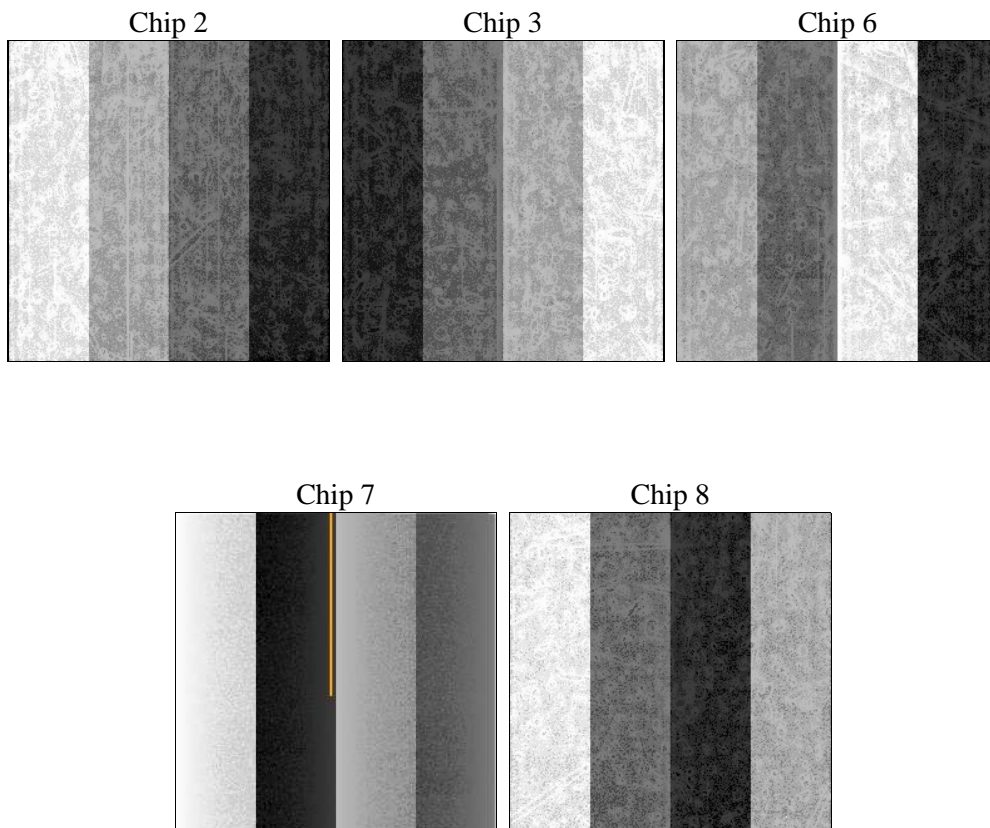
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3065.9000235796	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3065.9000235796	Sum of GTIs [s]
date	2014-12-12T20:24:37	Date and time of file creation	ontime3	3065.9000235796	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3065.9000235796	Sum of GTIs [s]
			ontime7	3065.9000235796	Sum of GTIs [s]
			ontime8	3065.9000235796	Sum of GTIs [s]
			l1events	85492	Number of level 1 events

2.1.4 Events

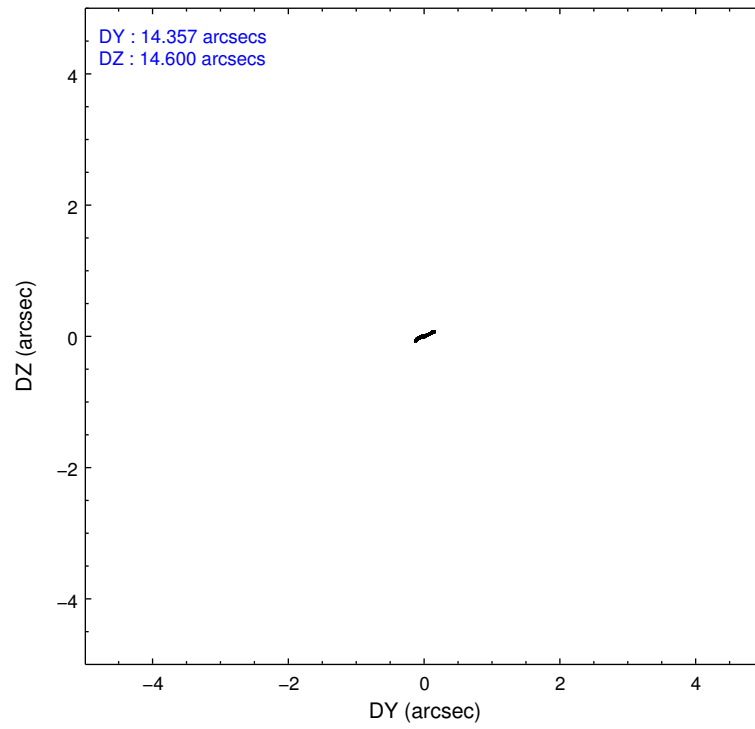
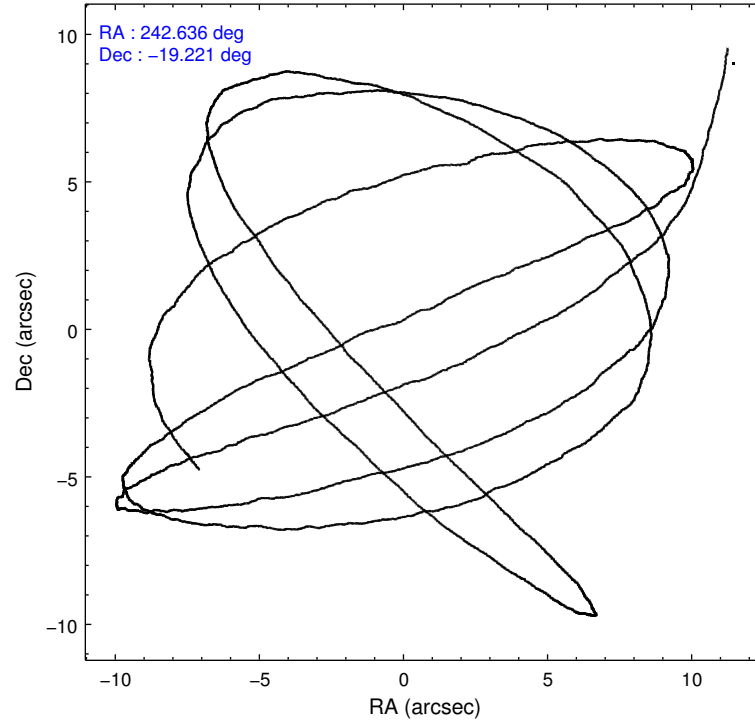
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	14820	14976	15464	21474	18758
rejected events	13208	11921	13596	12002	14265
rejected %	89%	79%	87%	55%	76%

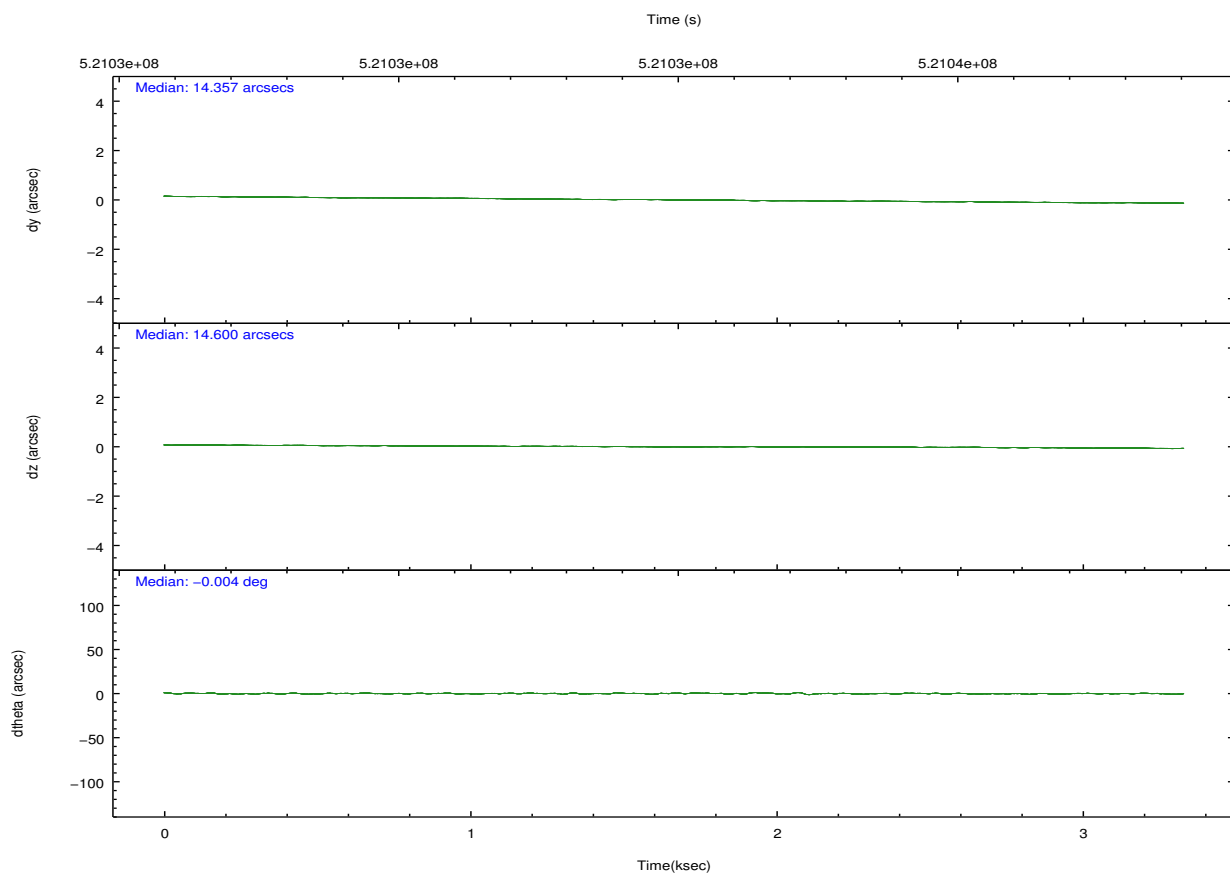
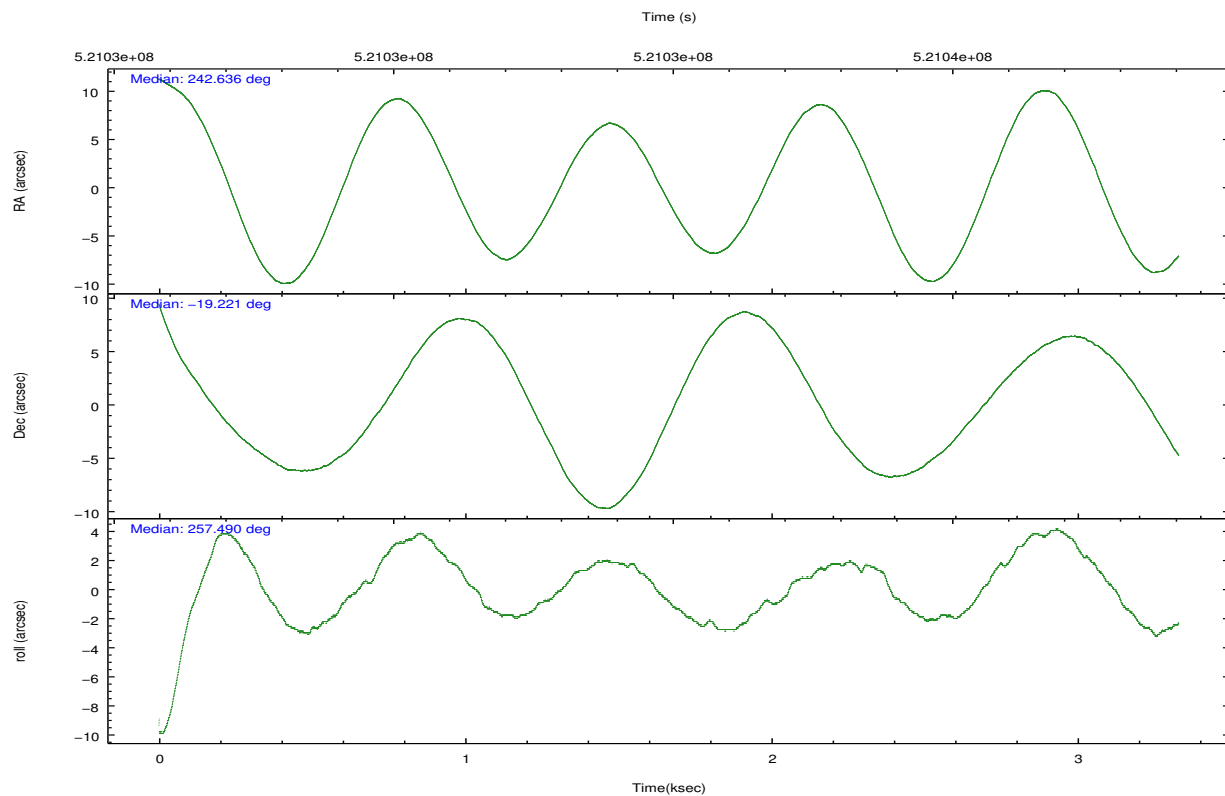
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	577	1891	639	959	1286
	3%	12%	4%	4%	6%
grade 1 events	7	13	9	25	15
	0%	0%	0%	0%	0%
grade 2 events	386	415	408	2016	1114
	2%	2%	2%	9%	5%
grade 3 events	178	200	186	754	422
	1%	1%	1%	3%	2%
grade 4 events	159	189	172	750	418
	1%	1%	1%	3%	2%
grade 5 events	647	837	743	2086	1097
	4%	5%	4%	9%	5%
grade 6 events	315	365	465	5014	1257
	2%	2%	3%	23%	6%
grade 7 events	12551	11066	12842	9870	13149
	84%	73%	83%	45%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	242.626517	242.6356395736412	Subarray requested	NONE	NONE
[deg] Pointing Dec	-19.194565	-19.22048838398138	Alternating exposures requested	N	N
[deg] Pointing Roll	257.338134	257.4977661132092	[s] Primary exposure time	0.000000	3.1
[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)	521032647.184000	521031634.41986			
Observation start date	2014-07-06T11:16:20	2014-07-06T11:00:34			
[s] Observation end time (MET)	521035647.184000	521036492.40763			
Observation end date	2014-07-06T12:06:20	2014-07-06T12:21:32			
Read mode	TIMED	TIMED			

2.3 Aspect



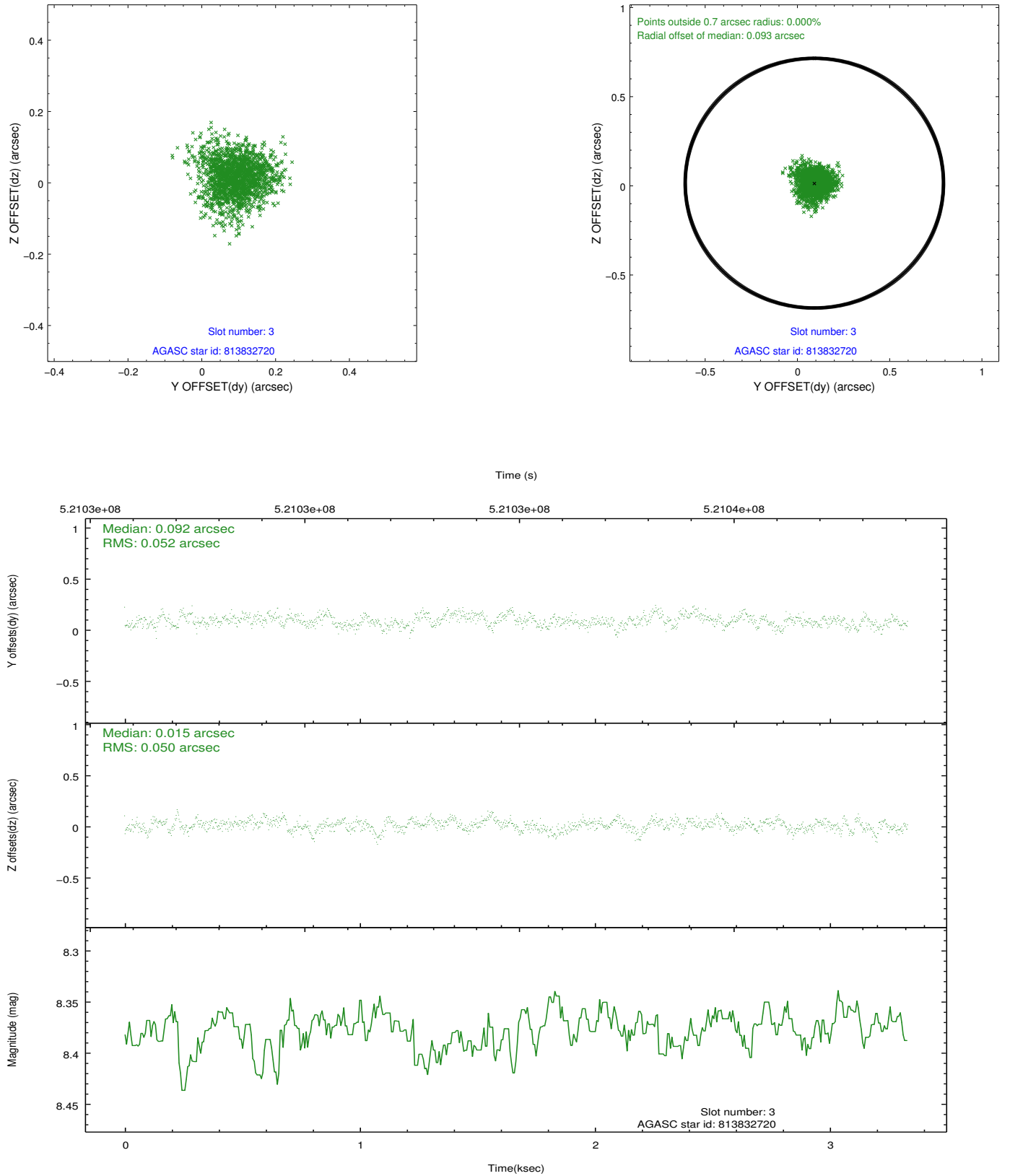


Slot Statistics

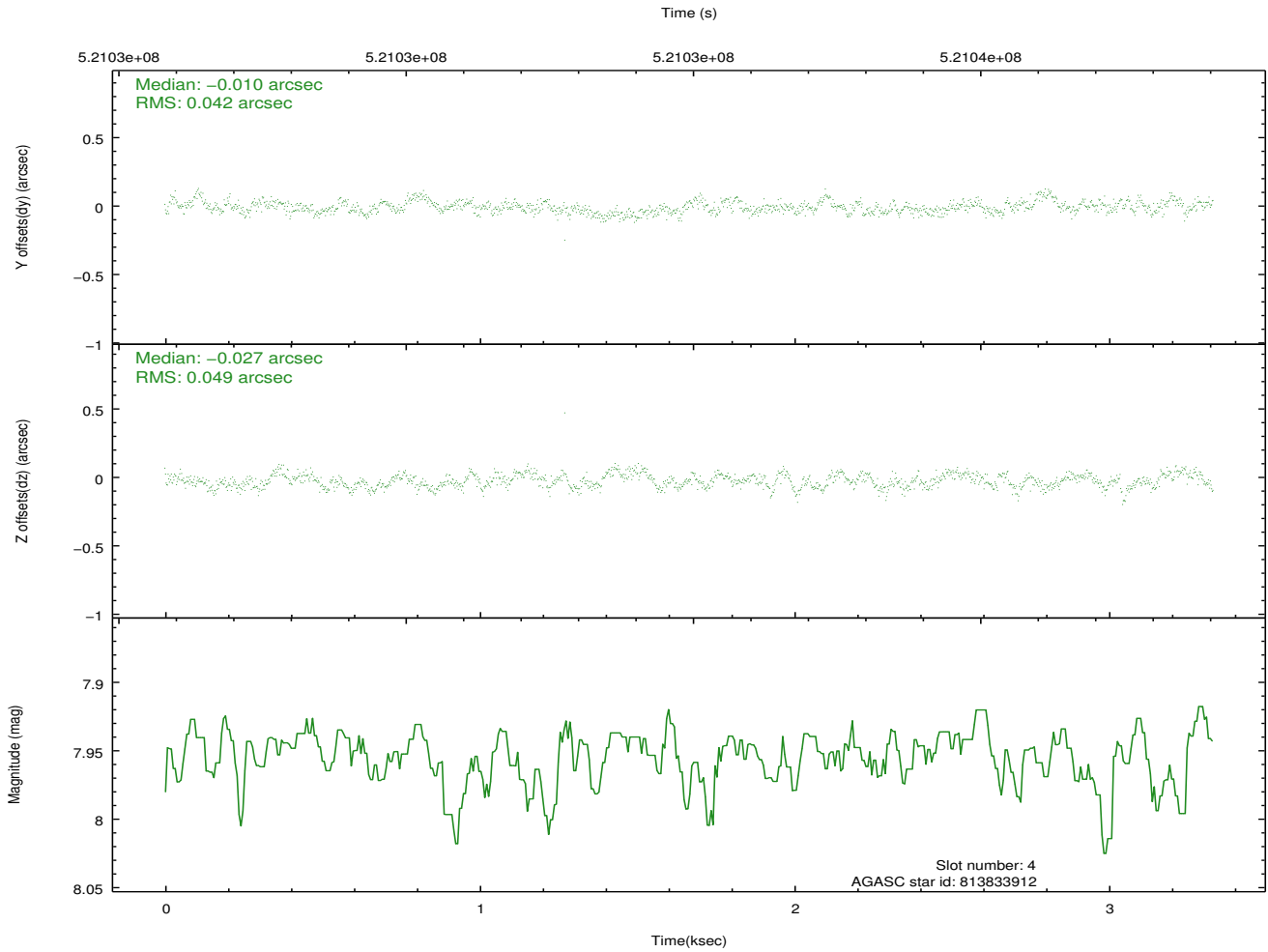
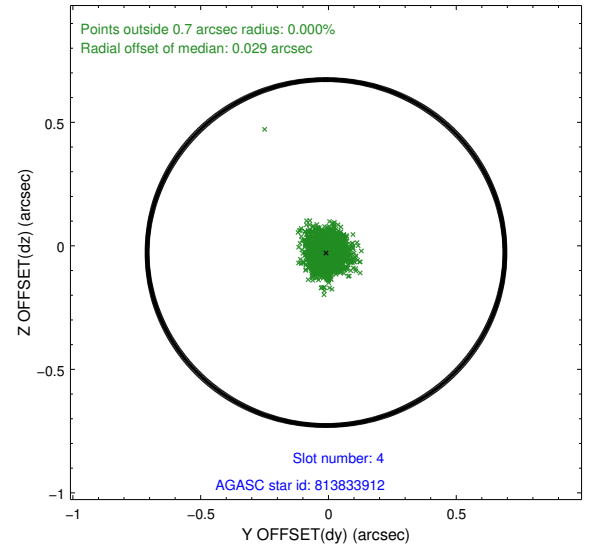
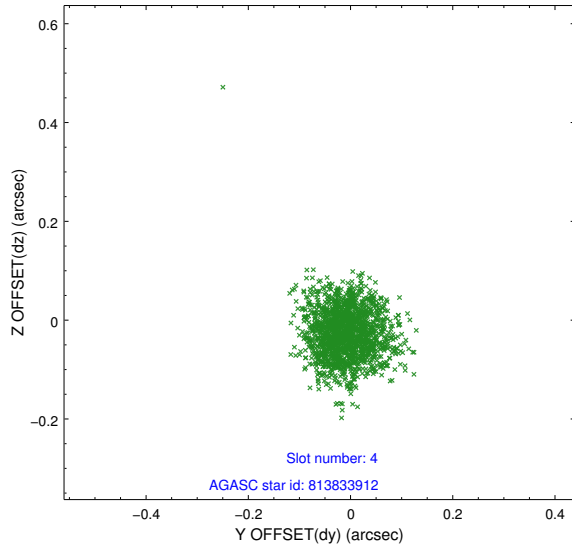
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	813	-0.106	-0.037	0.008	0.012	0.000000	0.000000	-767.42	-1735.96
1	FID		ACIS-S-4	7.14	813	0.271	0.061	0.007	0.012	0.000000	0.000000	2145.37	170.65
2	FID		ACIS-S-5	7.16	813	-0.196	-0.015	0.007	0.013	0.000000	0.000000	-1817.91	166.41
3	GUIDE	used	813832720	8.38	1625	0.092	0.015	0.076	0.125	242.337034	-19.457210	1139.72	-751.22
4	GUIDE	used	813833912	7.95	1626	-0.010	-0.027	0.068	0.106	243.090962	-19.579045	1008.55	1840.44
5	GUIDE	used	813834112	8.20	1626	-0.021	0.117	0.083	0.128	243.024975	-19.062329	-758.85	1219.91
6	GUIDE	used	813836488	8.08	1626	-0.012	0.019	0.071	0.113	242.260837	-18.995570	-424.30	-1370.58
7	GUIDE	used	813838352	7.91	1624	-0.049	-0.126	0.073	0.112	243.183752	-19.502876	671.69	2088.02

2.4 Star Slots

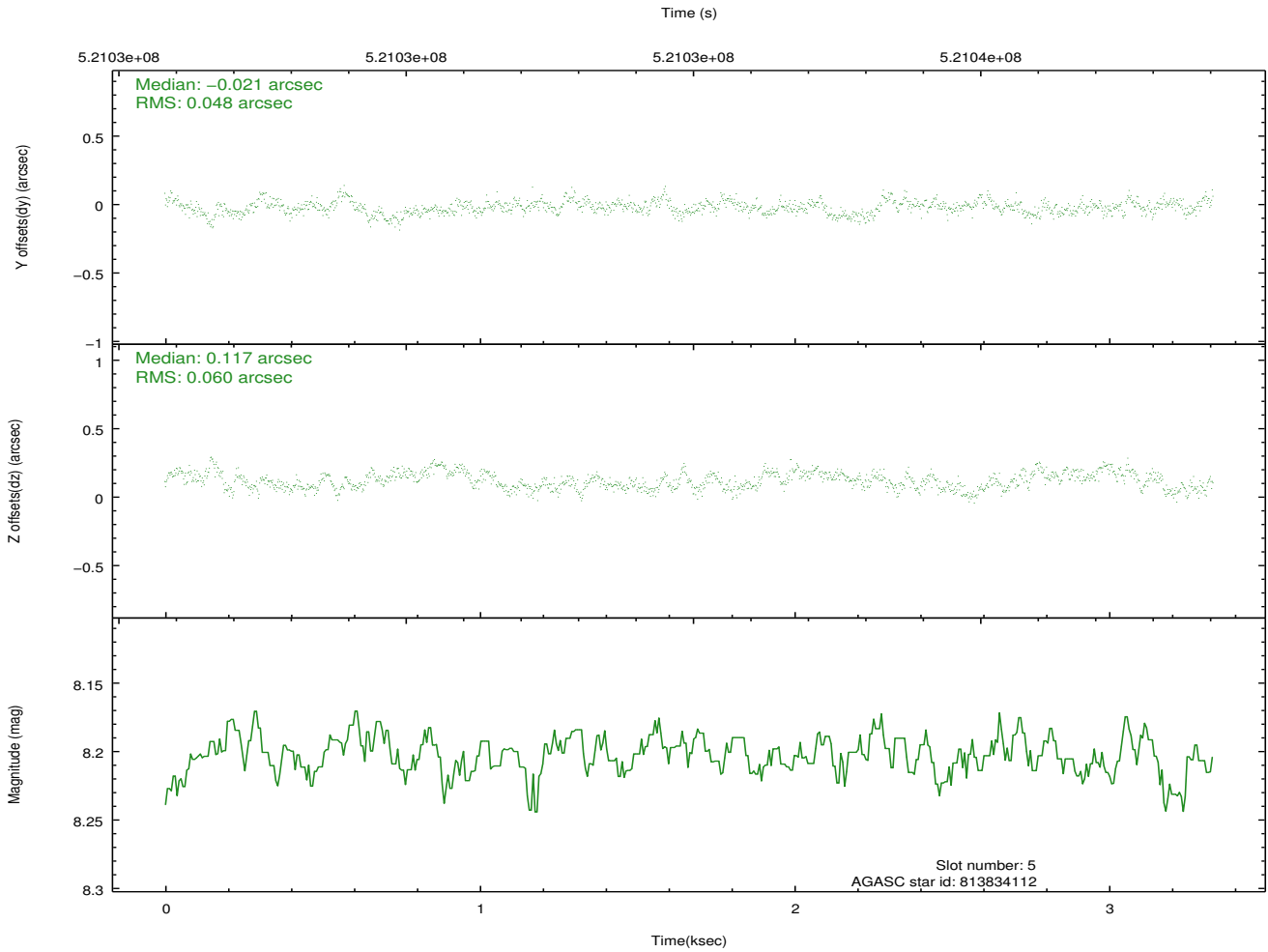
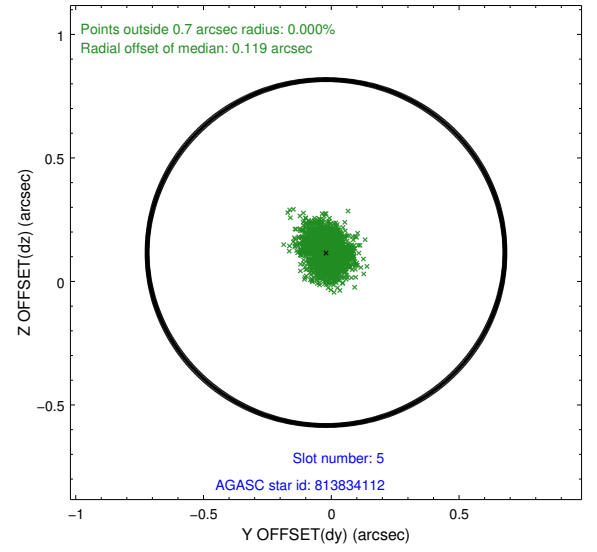
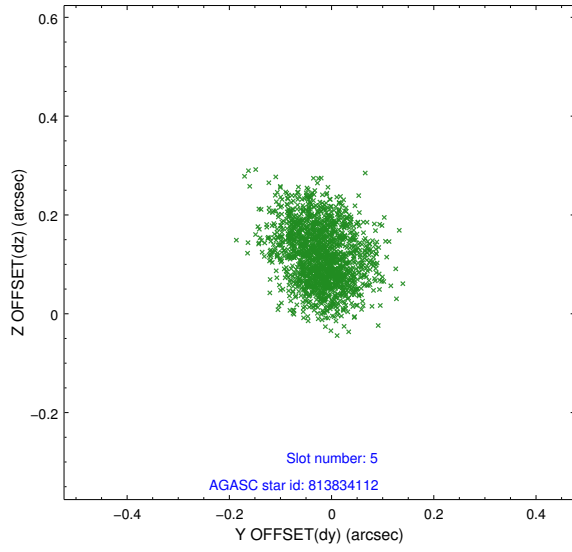
2.4.1 Slot 3



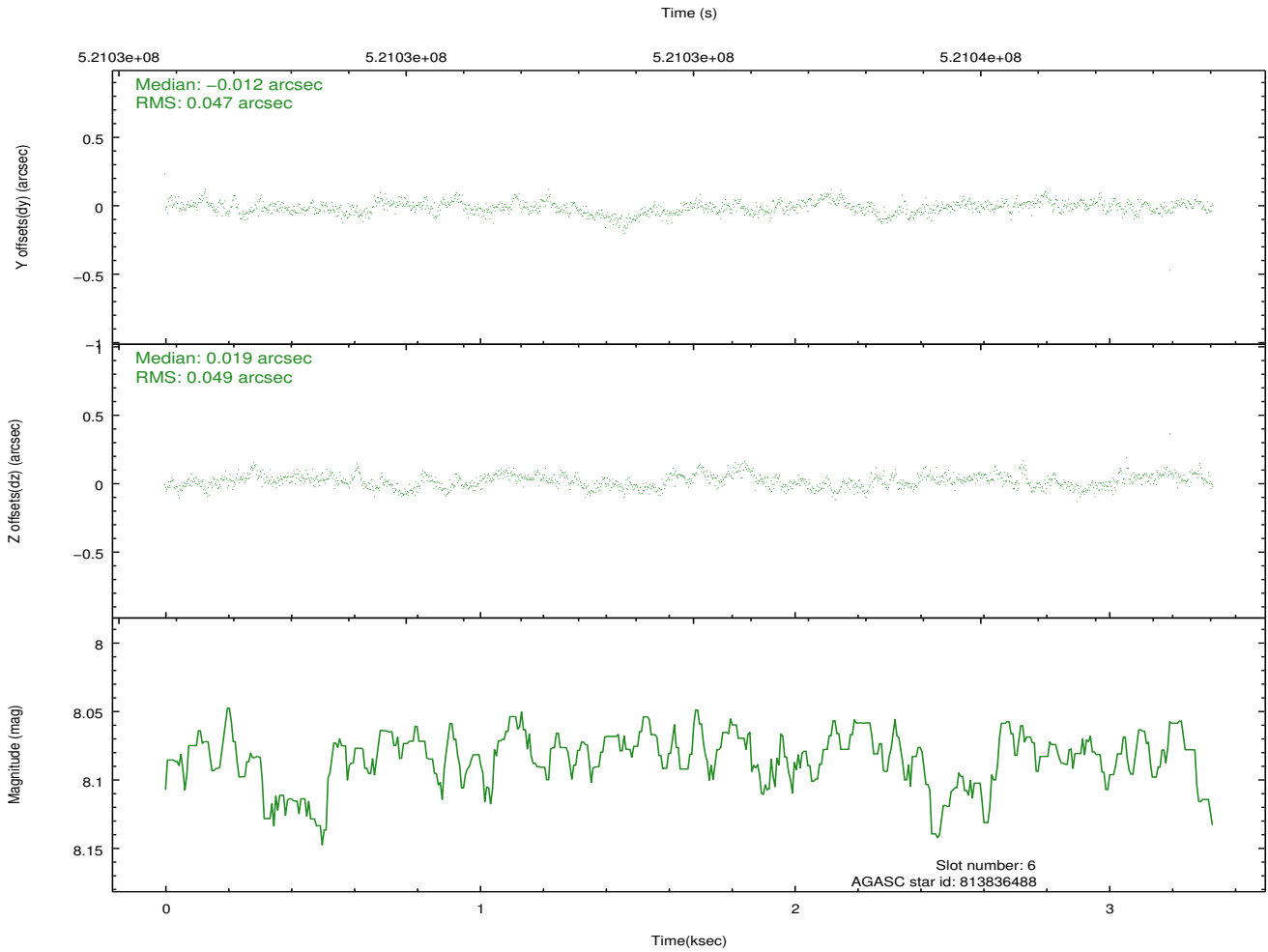
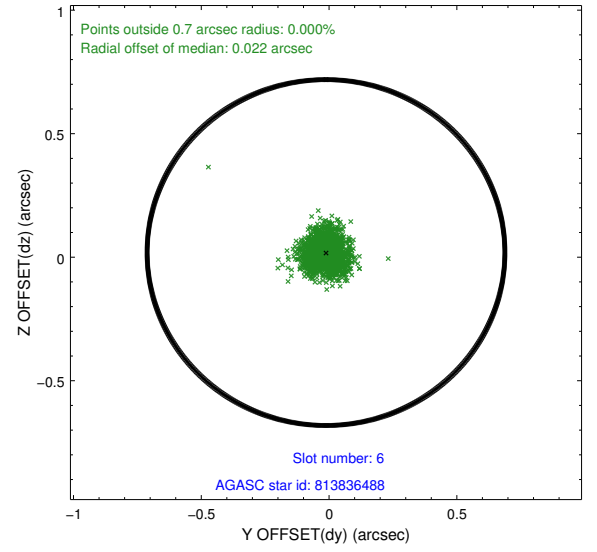
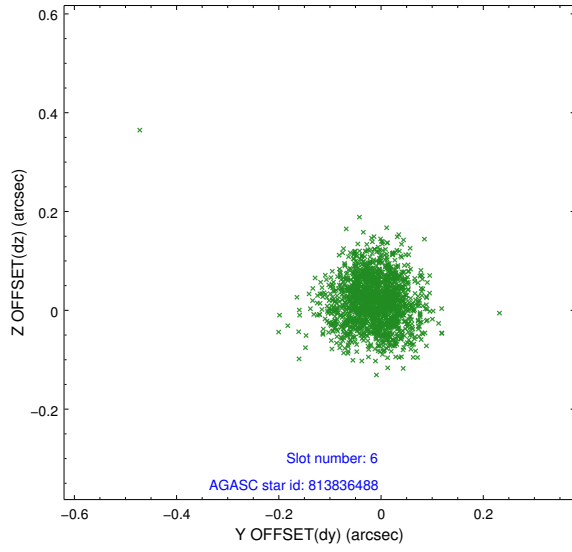
2.4.2 Slot 4



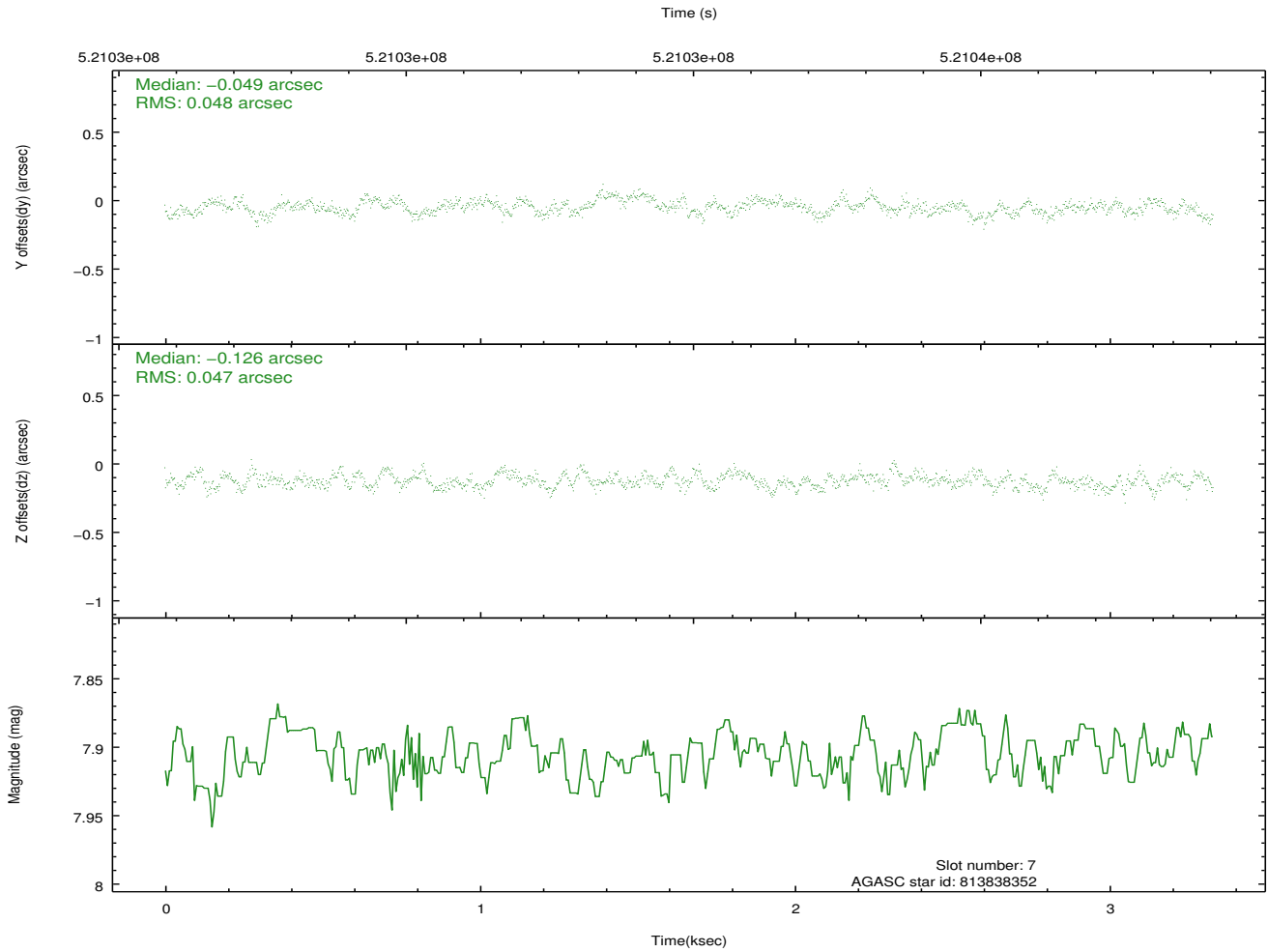
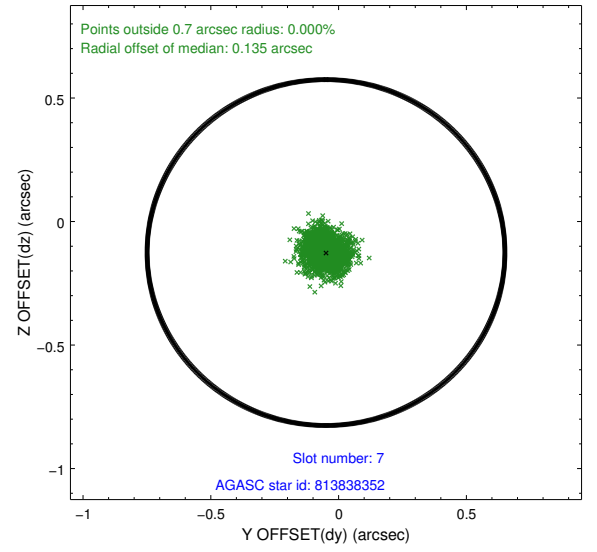
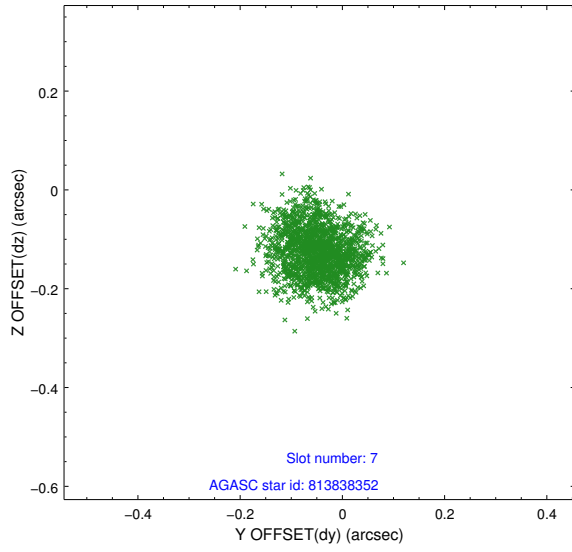
2.4.3 Slot 5



2.4.4 Slot 6

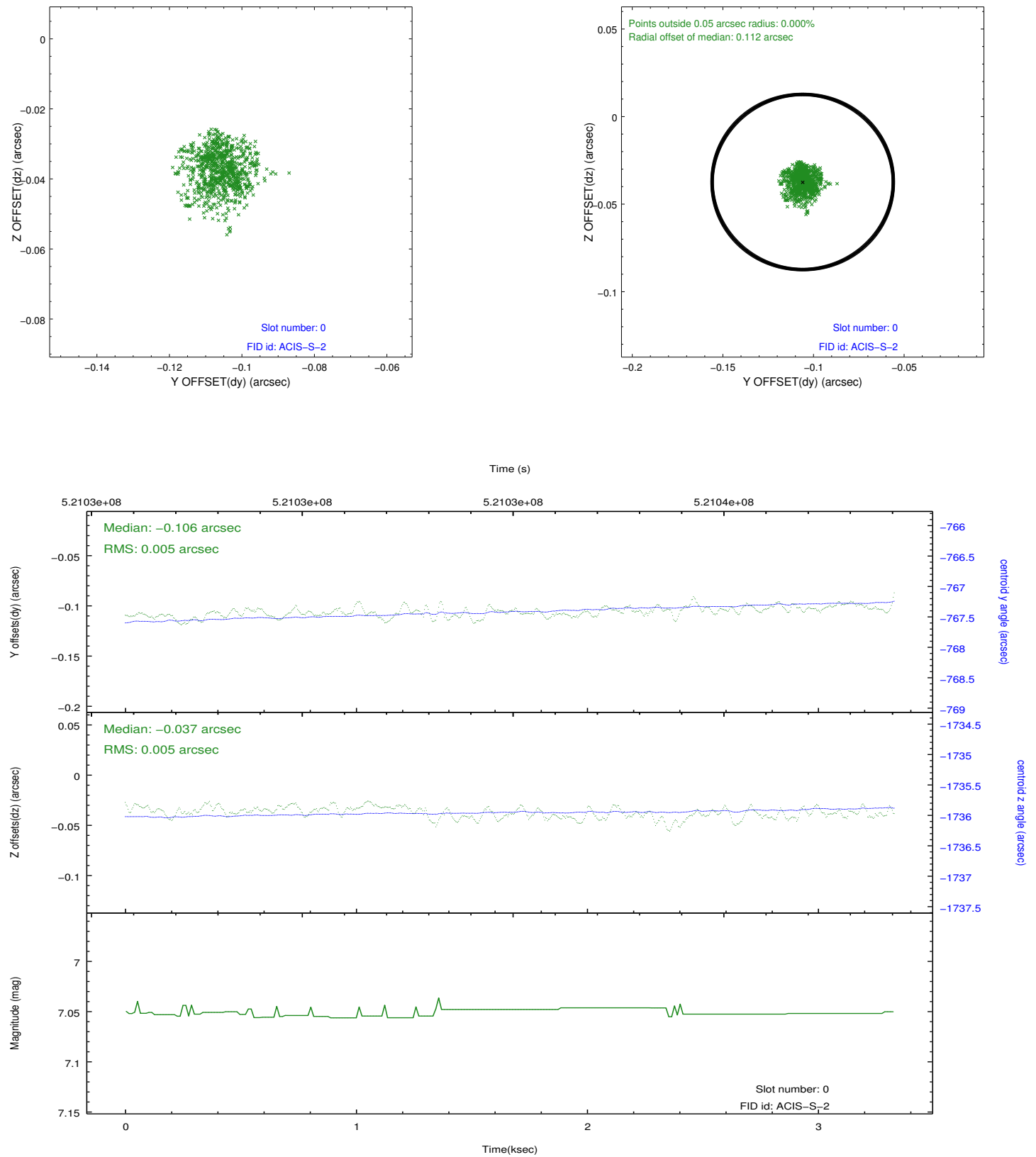


2.4.5 Slot 7

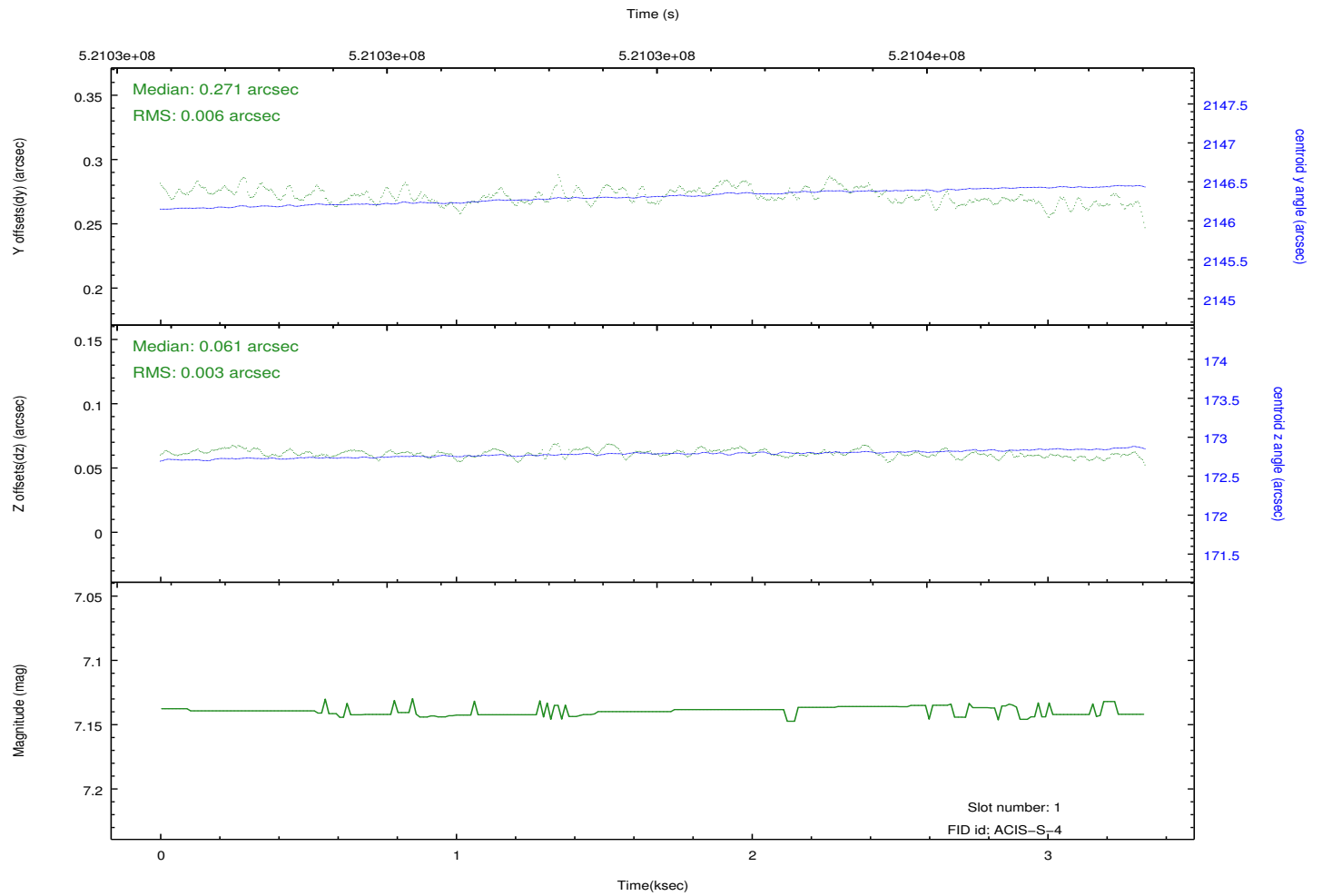
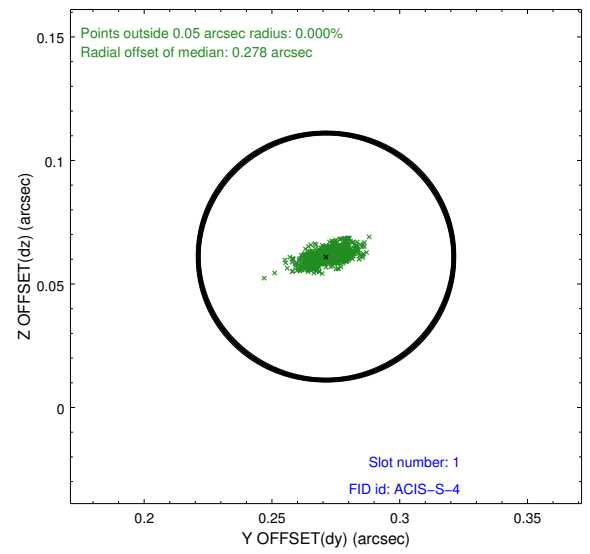
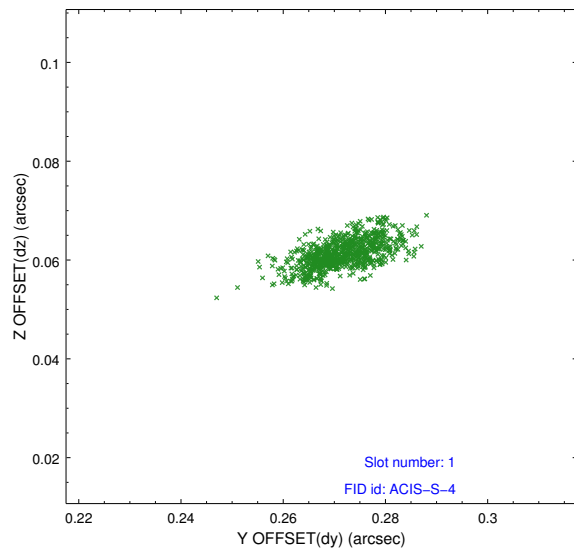


2.5 FID Slots

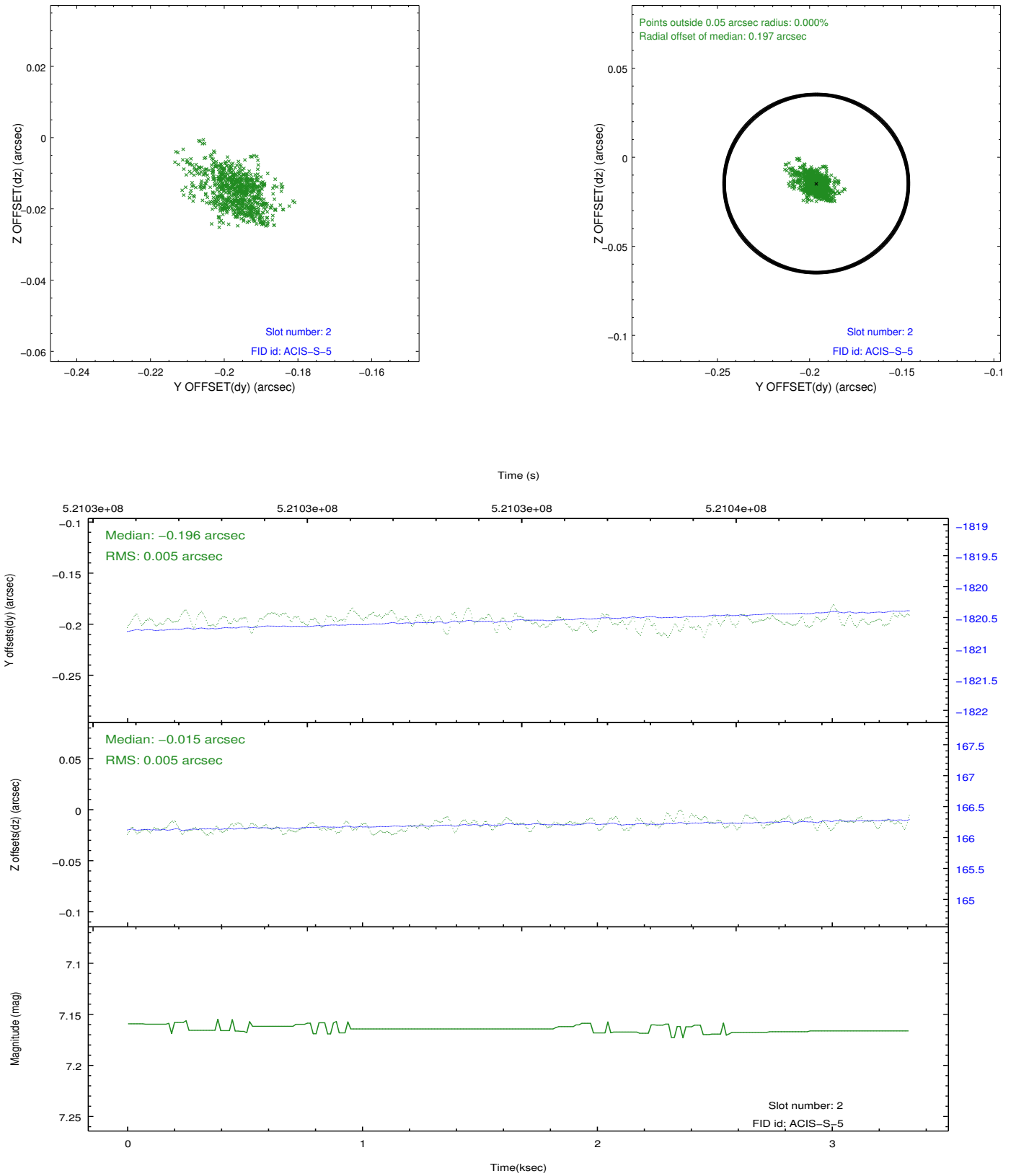
2.5.1 Slot 0



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)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0659000235796

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.