

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 14956 - L2 Version 2
Chandra X-Ray Center

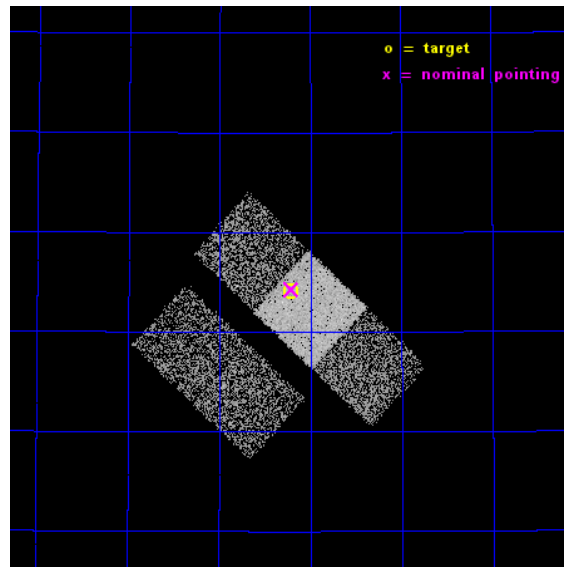
L2 Processing Date : Dec 9 2014

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1 Front

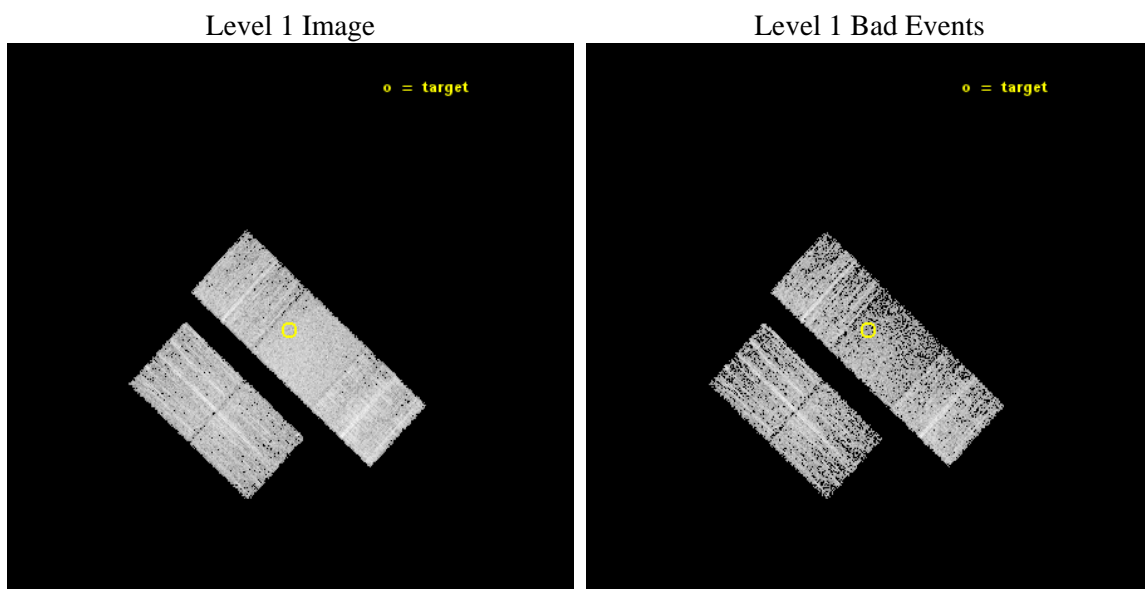
seq_num	702765	Sequence number
obs_id	14956	Observation id
title	Understanding the Nature of PHL 1811 Analogs	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J1534+5034	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	233.552917	Observer's specified target RA [deg]
dec_targ	50.568139	Observer's specified target Dec [deg]
ra_nom	233.55204541177	Nominal RA [deg]
dec_nom	50.571217779867	Nominal Dec [deg]
roll_nom	43.150861412197	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6145.9115100503	Sum of GTIs [s]
livetime	6065.6106516173	Livetime [s]
ontime2	6145.7473500371	Sum of GTIs [s]
ontime3	6145.8294300437	Sum of GTIs [s]
ontime6	6145.870470047	Sum of GTIs [s]
ontime7	6145.9115100503	Sum of GTIs [s]
ontime8	6145.7883900404	Sum of GTIs [s]
l2events	26173	Number of level 2 events



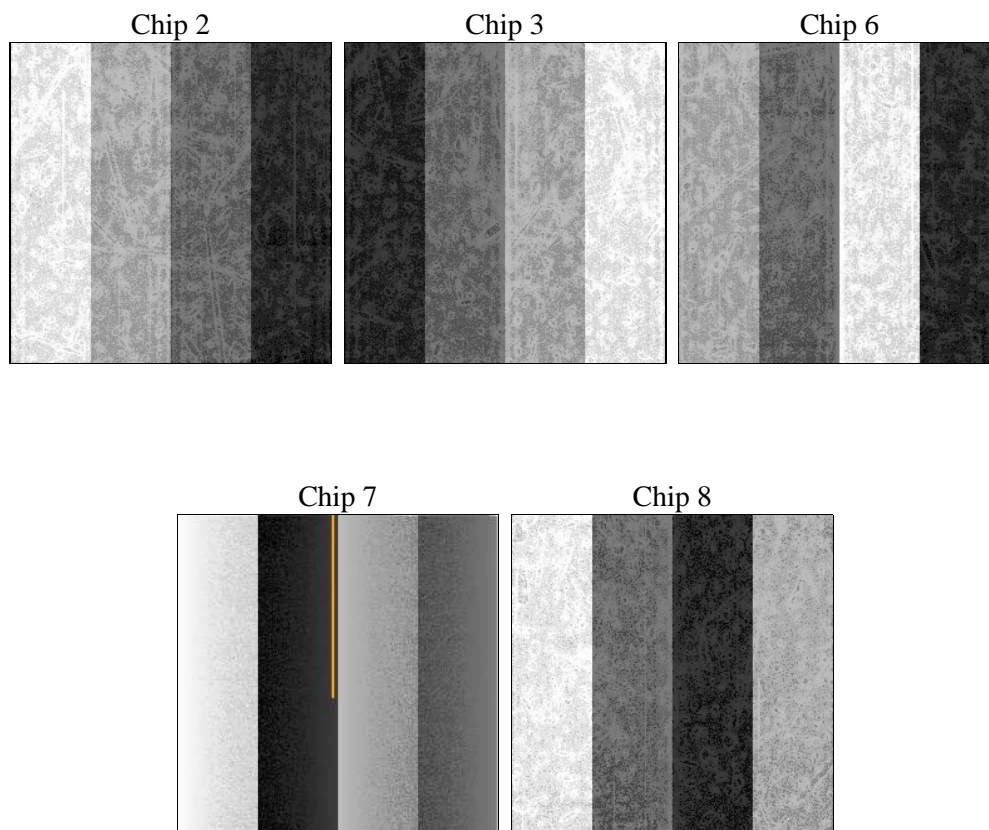
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6075.682000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	6145.9115100503	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	6145.7473500371	Sum of GTIs [s]
date	2014-12-09T08:34:36	Date and time of file creation	ontime3	6145.8294300437	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	6145.870470047	Sum of GTIs [s]
			ontime7	6145.9115100503	Sum of GTIs [s]
			ontime8	6145.7883900404	Sum of GTIs [s]
			l1events	148328	Number of level 1 events

2.1.4 Events

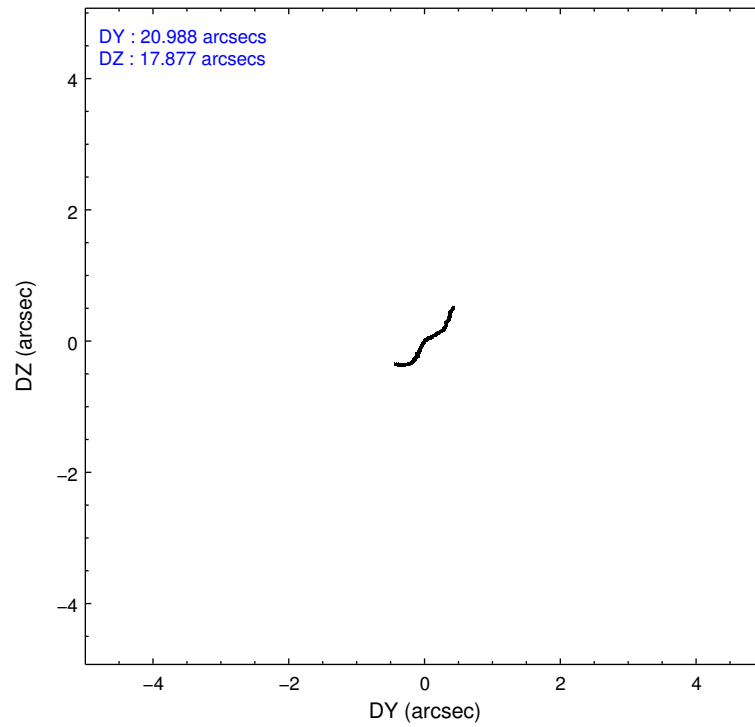
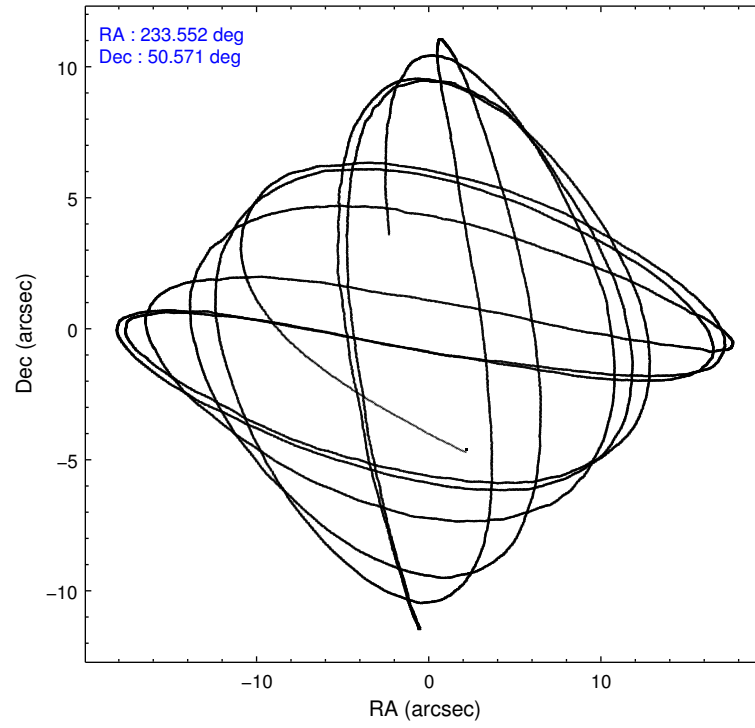
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	26977	24938	26702	32482	37229
rejected events	23757	21837	23252	17143	26443
rejected %	88%	87%	87%	52%	71%

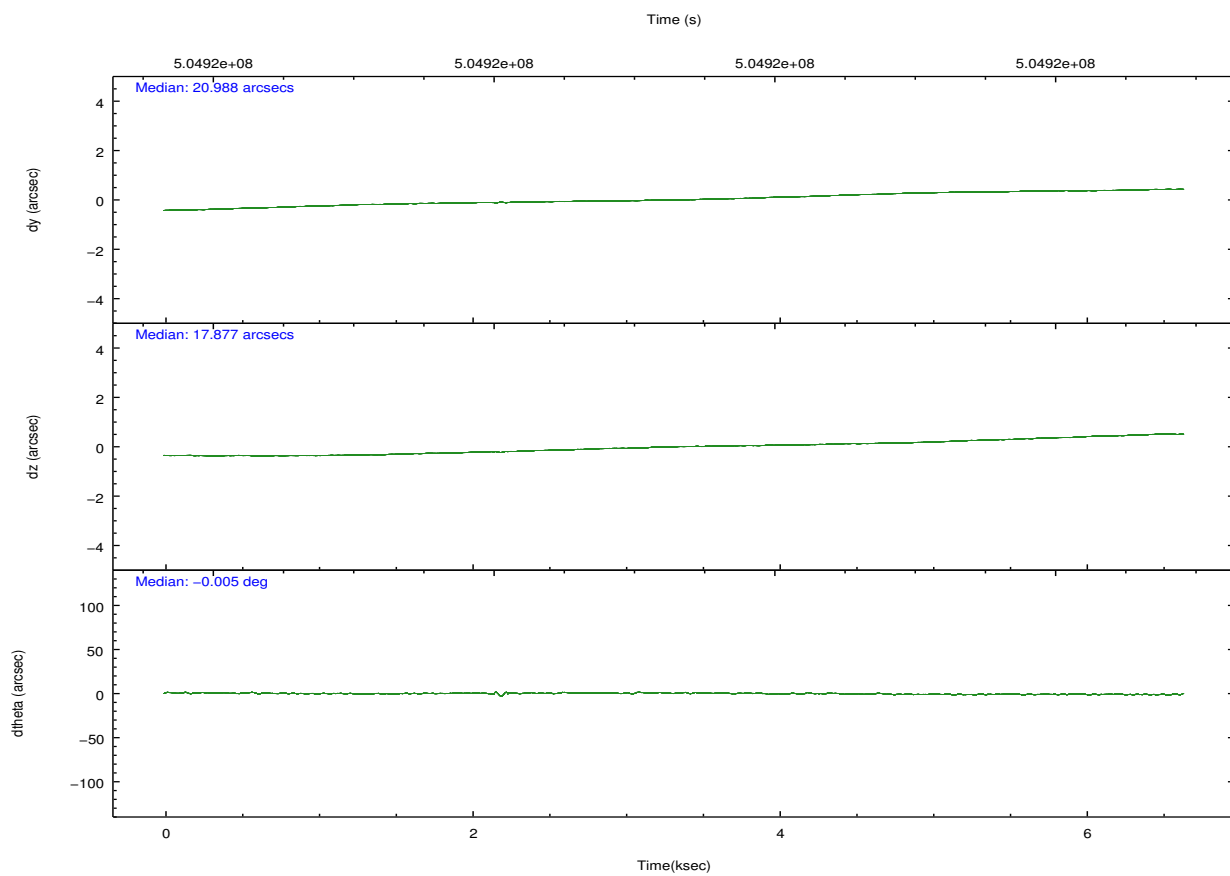
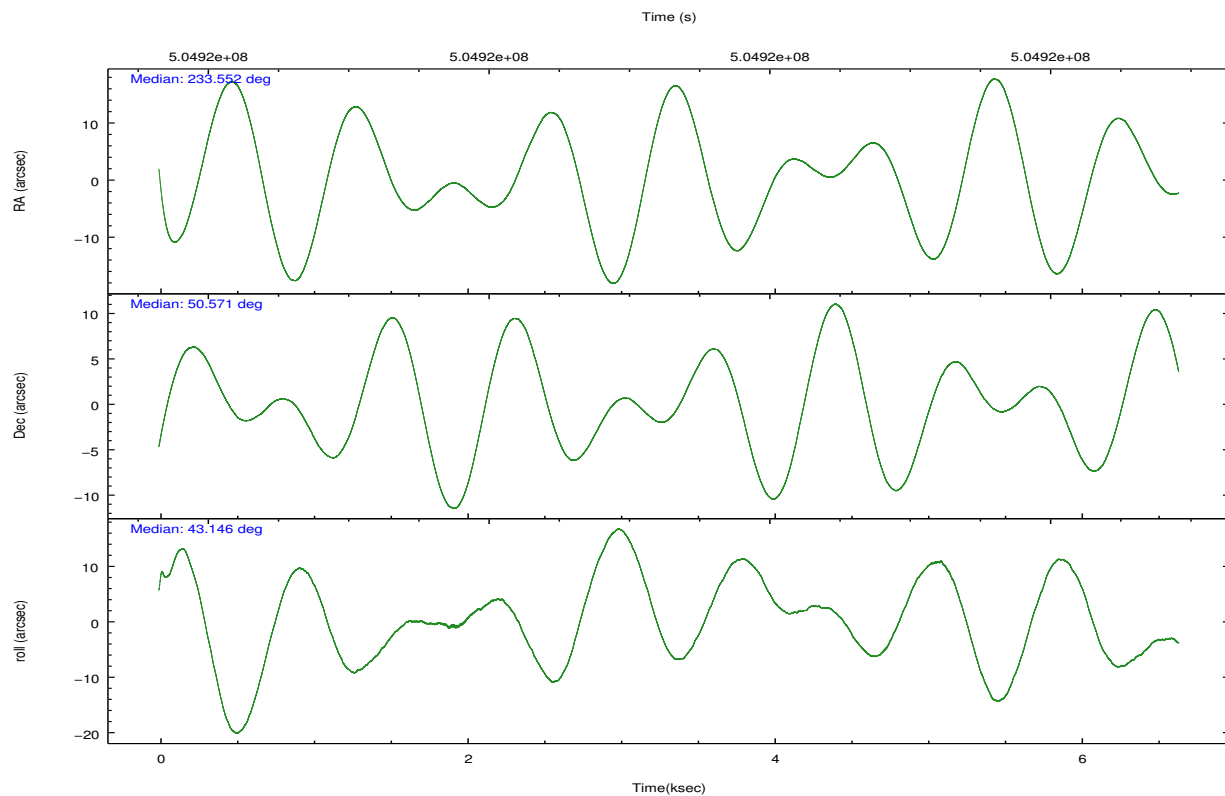
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1146	1163	1259	1526	2940
	4%	4%	4%	4%	7%
grade 1 events	25	11	15	54	22
	0%	0%	0%	0%	0%
grade 2 events	807	703	750	3209	2445
	2%	2%	2%	9%	6%
grade 3 events	324	312	333	1312	1295
	1%	1%	1%	4%	3%
grade 4 events	303	301	354	1278	1193
	1%	1%	1%	3%	3%
grade 5 events	1008	1235	1266	3409	1910
	3%	4%	4%	10%	5%
grade 6 events	644	623	755	8018	2913
	2%	2%	2%	24%	7%
grade 7 events	22720	20590	21970	13676	24511
	84%	82%	82%	42%	65%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	233.540126	233.5520454117718	CCD I2 on	O1	Y
[deg] Pointing Dec	50.544839	50.5712177798671	CCD I3 on	O2	Y
[deg] Pointing Roll	43.003418	43.15086141219739	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	504916520.184000	504915388.89366	CCD S5 on	N	N
Observation start date	2013-12-31T22:34:13	2013-12-31T22:16:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	504922595.184000	504922821.68157	On-chip summing requested	N	N
Observation end date	2014-01-01T00:15:28	2014-01-01T00:20:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



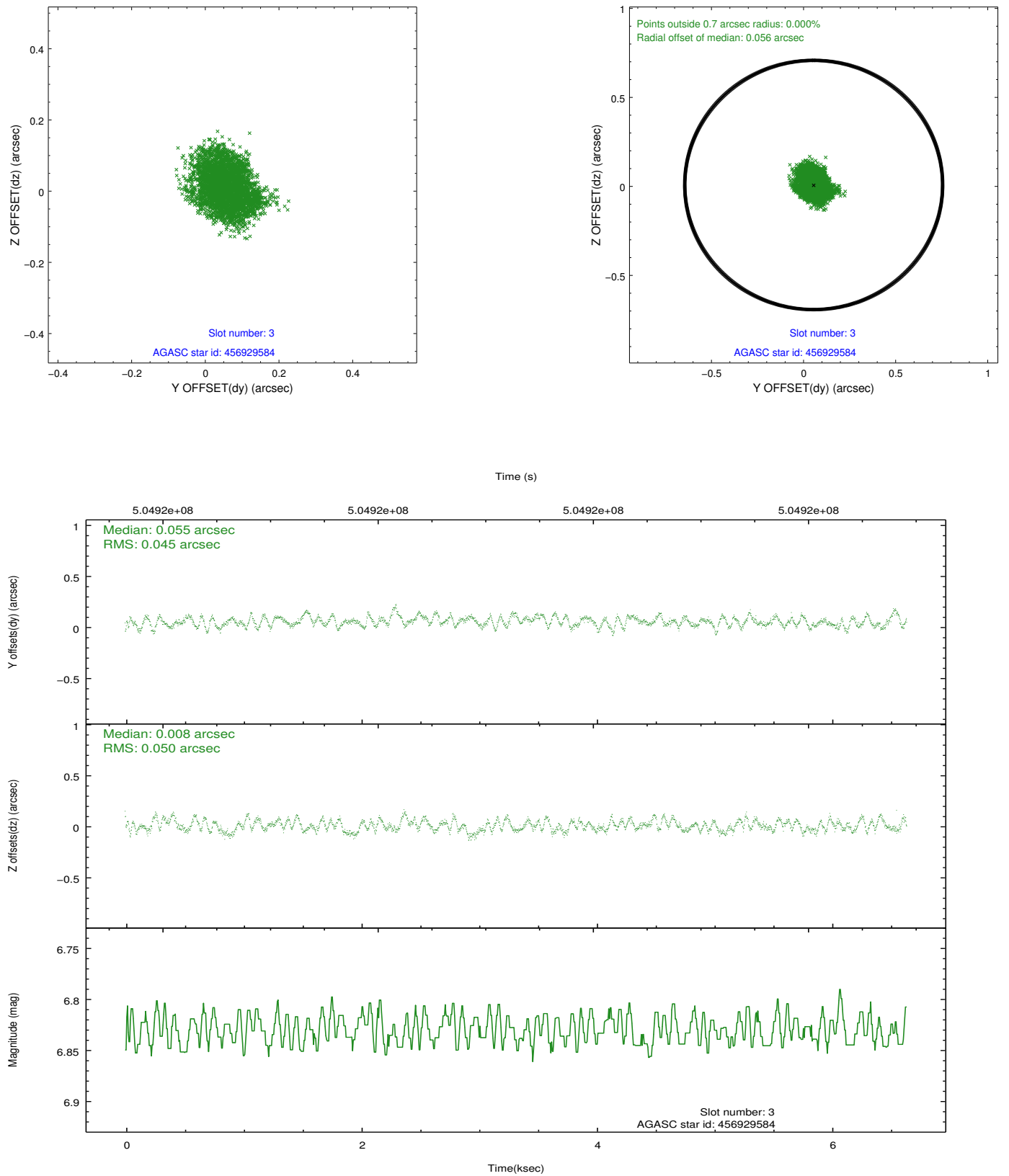


Slot Statistics

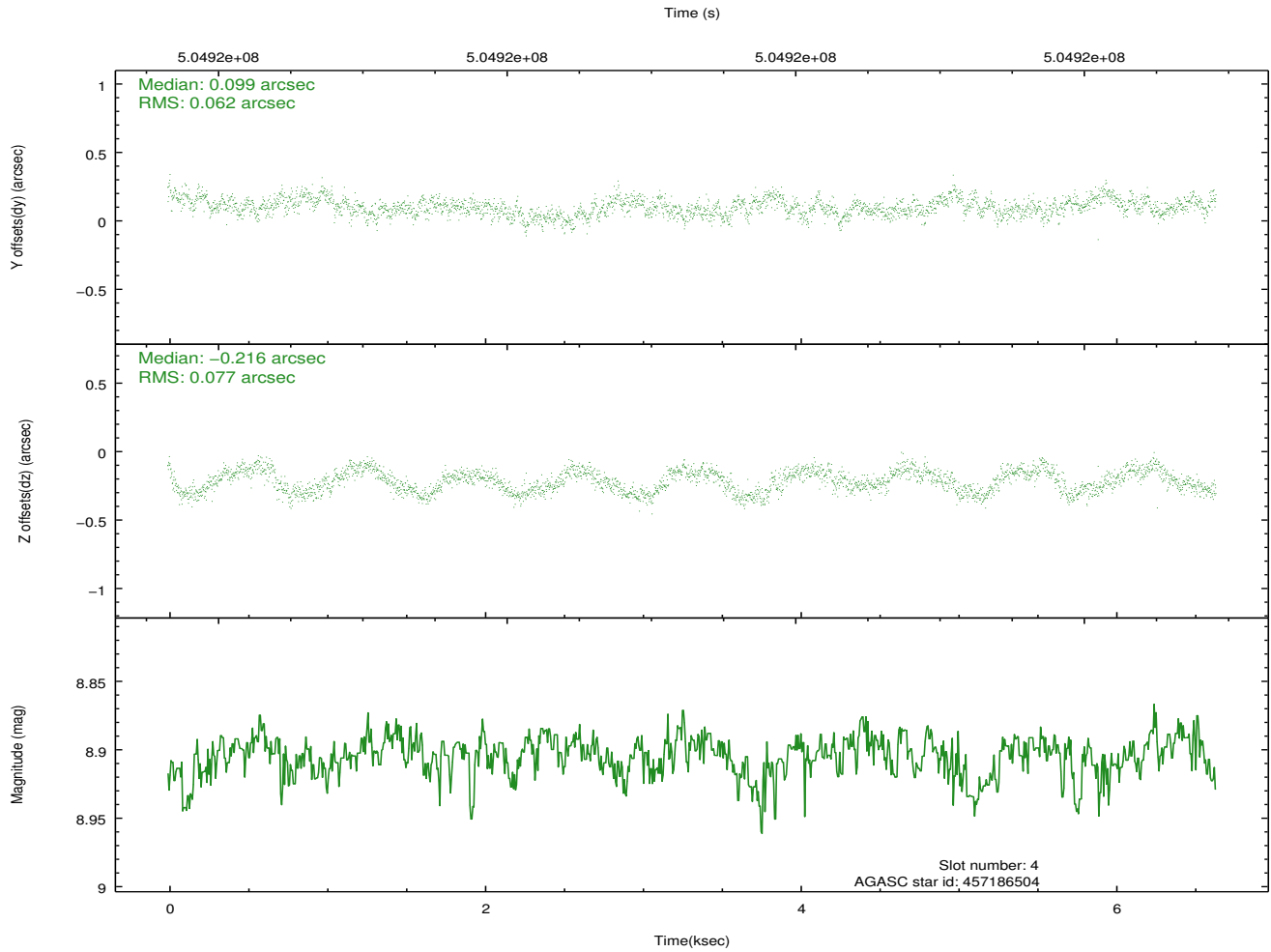
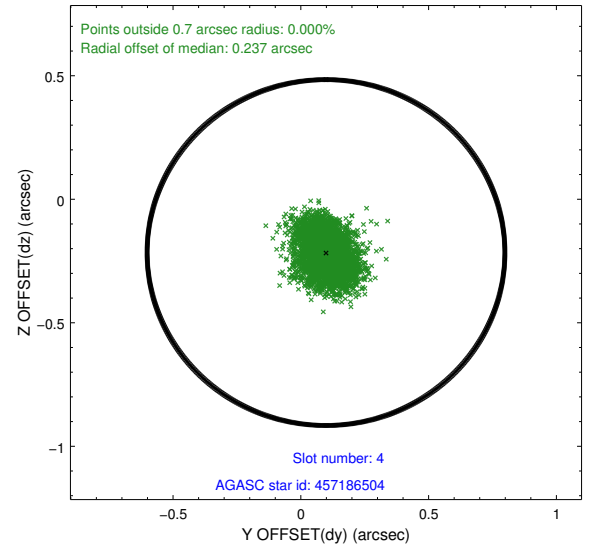
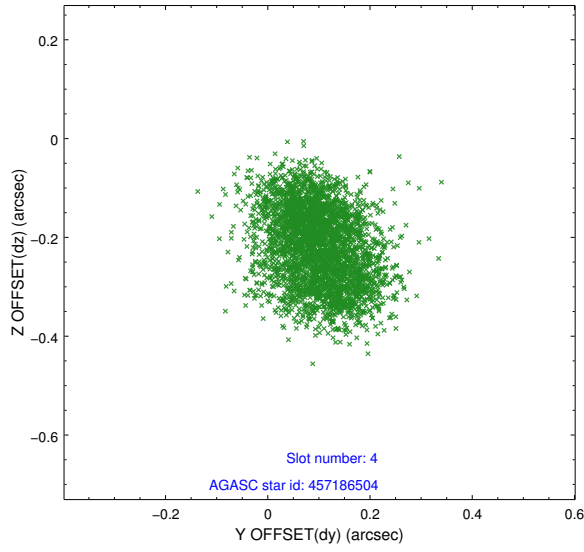
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.08	1620	0.036	-0.007	0.014	0.021	0.000000	0.000000	921.89	-1734.92
1	FID		ACIS-S-4	7.10	1618	0.168	-0.009	0.012	0.018	0.000000	0.000000	2139.93	168.31
2	FID		ACIS-S-5	7.12	1620	-0.231	0.028	0.009	0.015	0.000000	0.000000	-1826.11	162.98
3	GUIDE	used	456929584	6.83	3241	0.055	0.008	0.074	0.112	233.799450	49.994638	-911.57	-1857.95
4	GUIDE	used	457186504	8.90	3241	0.099	-0.216	0.108	0.164	232.422772	50.511381	-1939.92	1669.91
5	GUIDE	used	457315728	8.96	3236	0.185	0.008	0.119	0.195	234.061609	50.093249	-224.86	-2006.58
6	GUIDE	used	457316216	8.79	3239	-0.014	0.242	0.098	0.155	233.360540	50.157678	-1253.13	-736.69
7	GUIDE	used	457320856	8.81	3238	-0.326	-0.035	0.102	0.173	234.225195	50.509014	1063.46	-1158.68

2.4 Star Slots

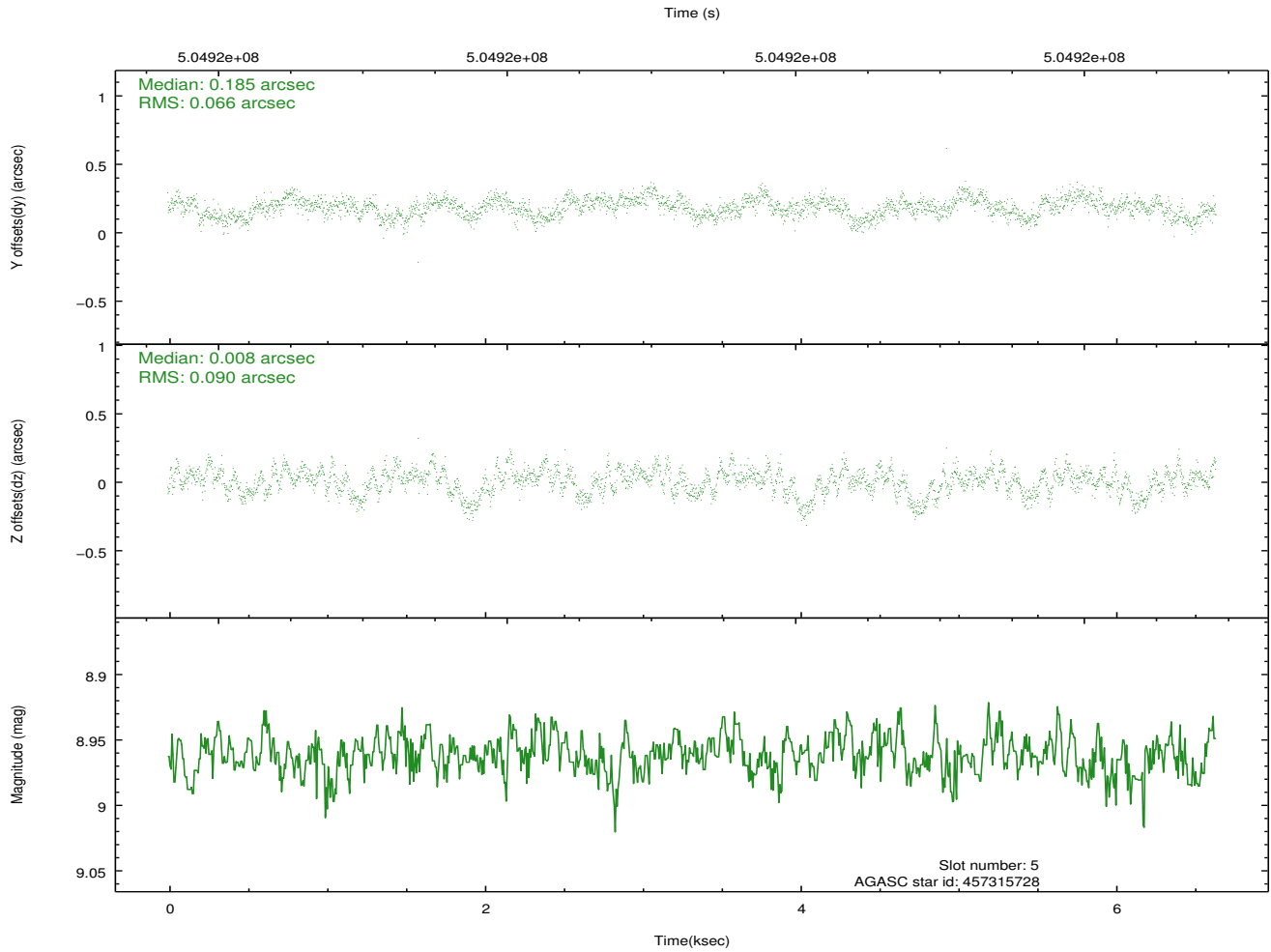
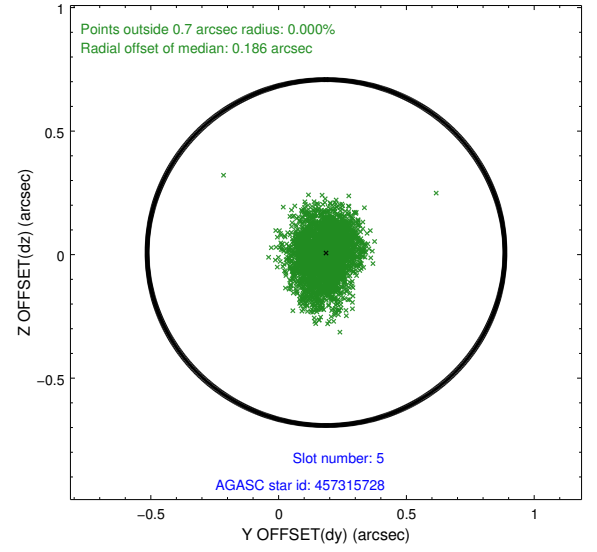
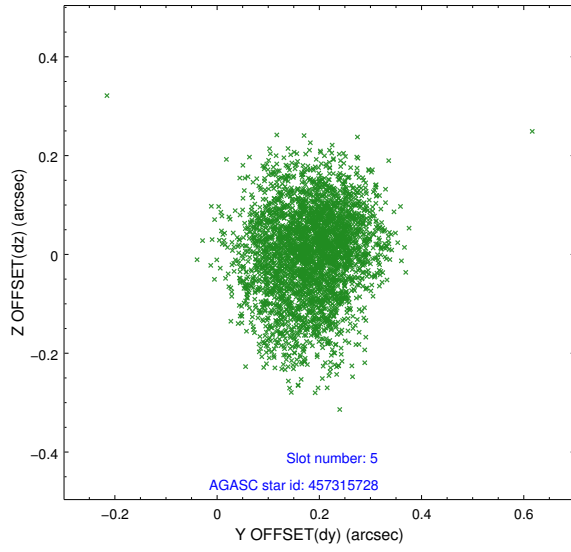
2.4.1 Slot 3



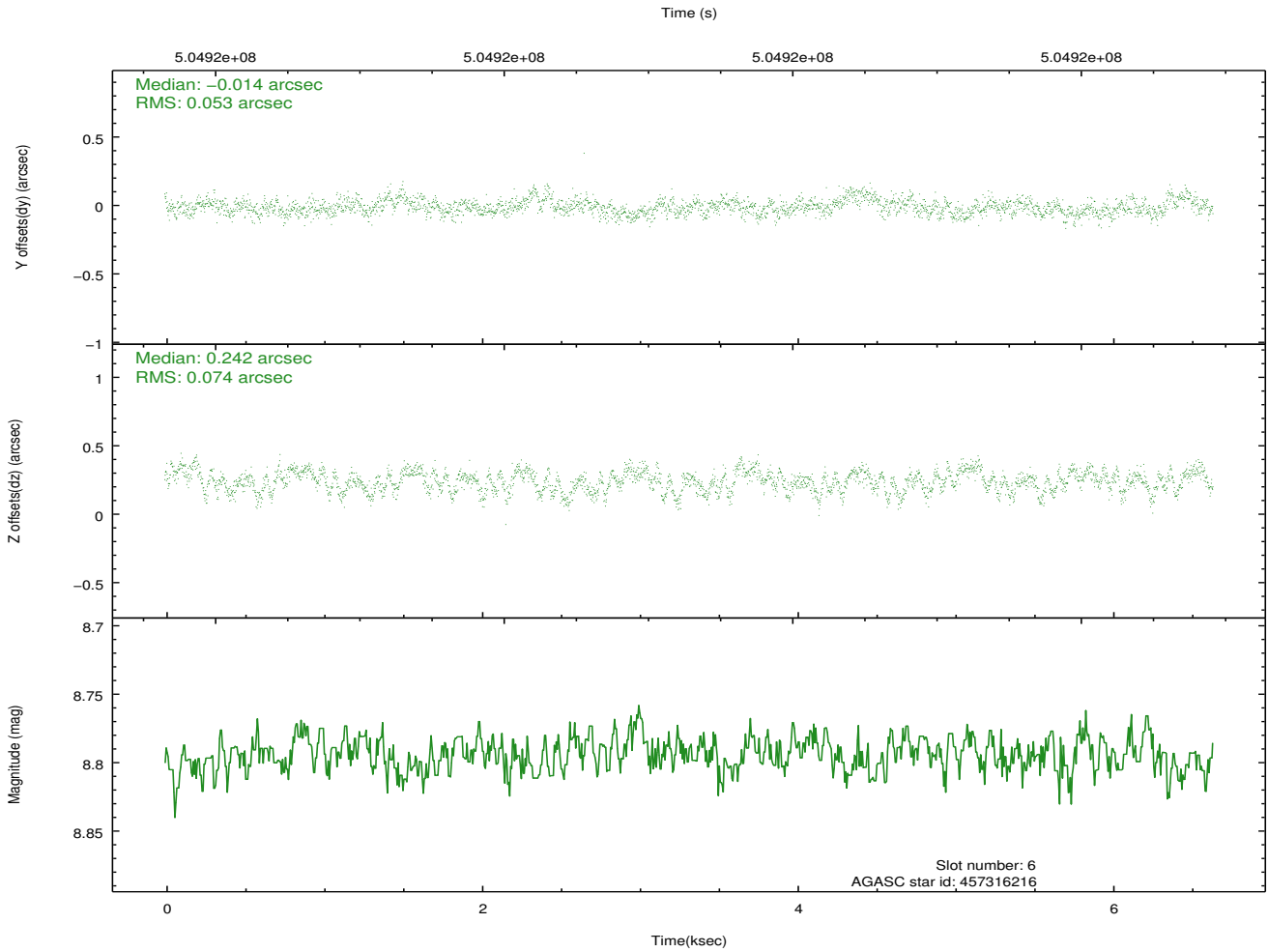
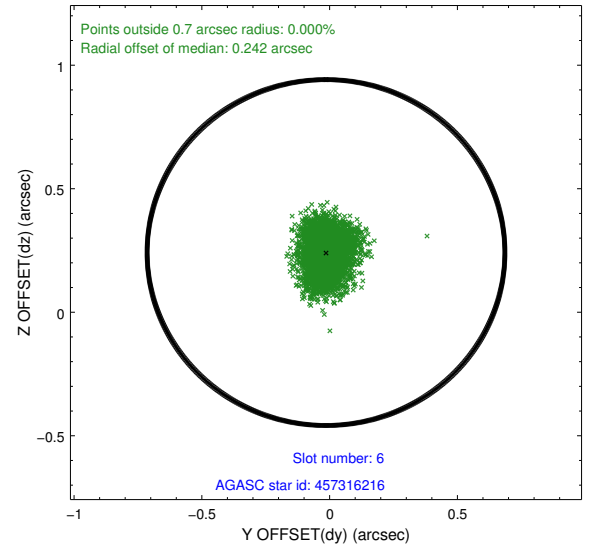
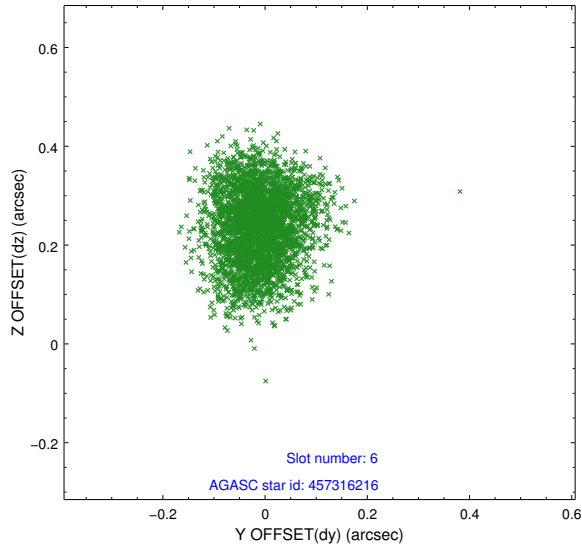
2.4.2 Slot 4



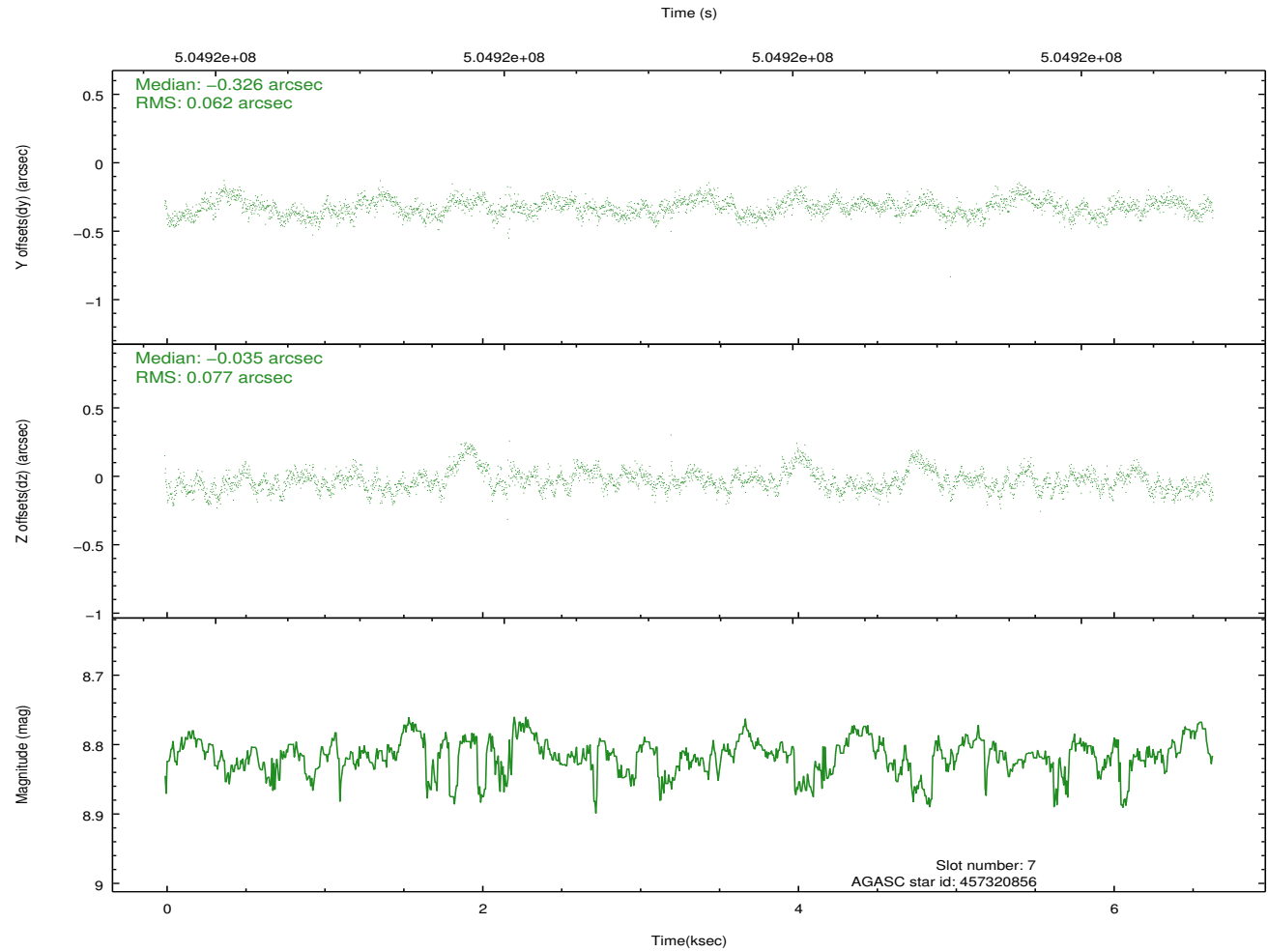
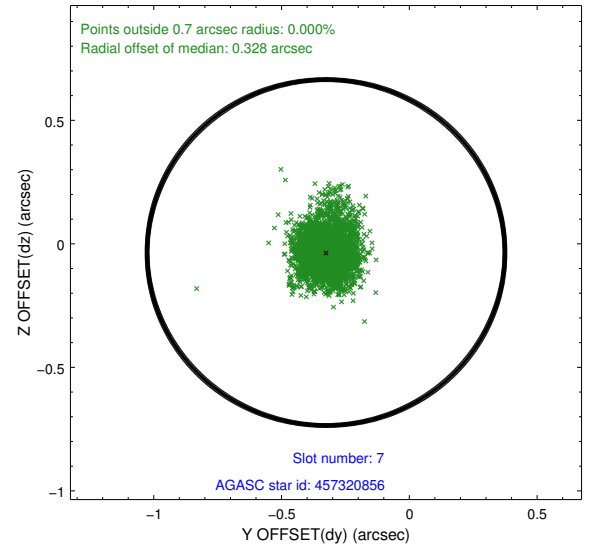
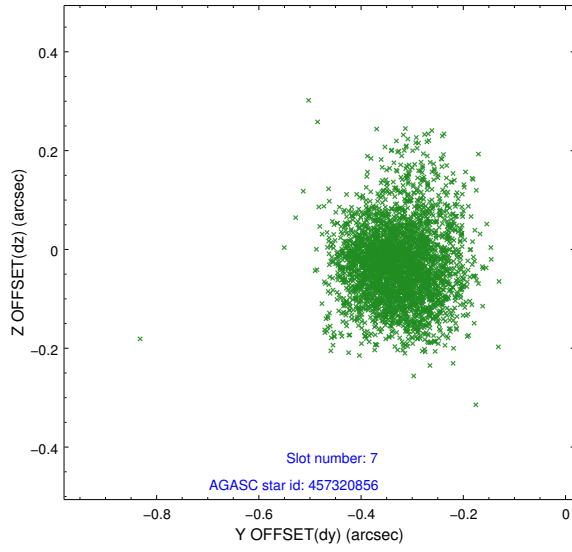
2.4.3 Slot 5



2.4.4 Slot 6

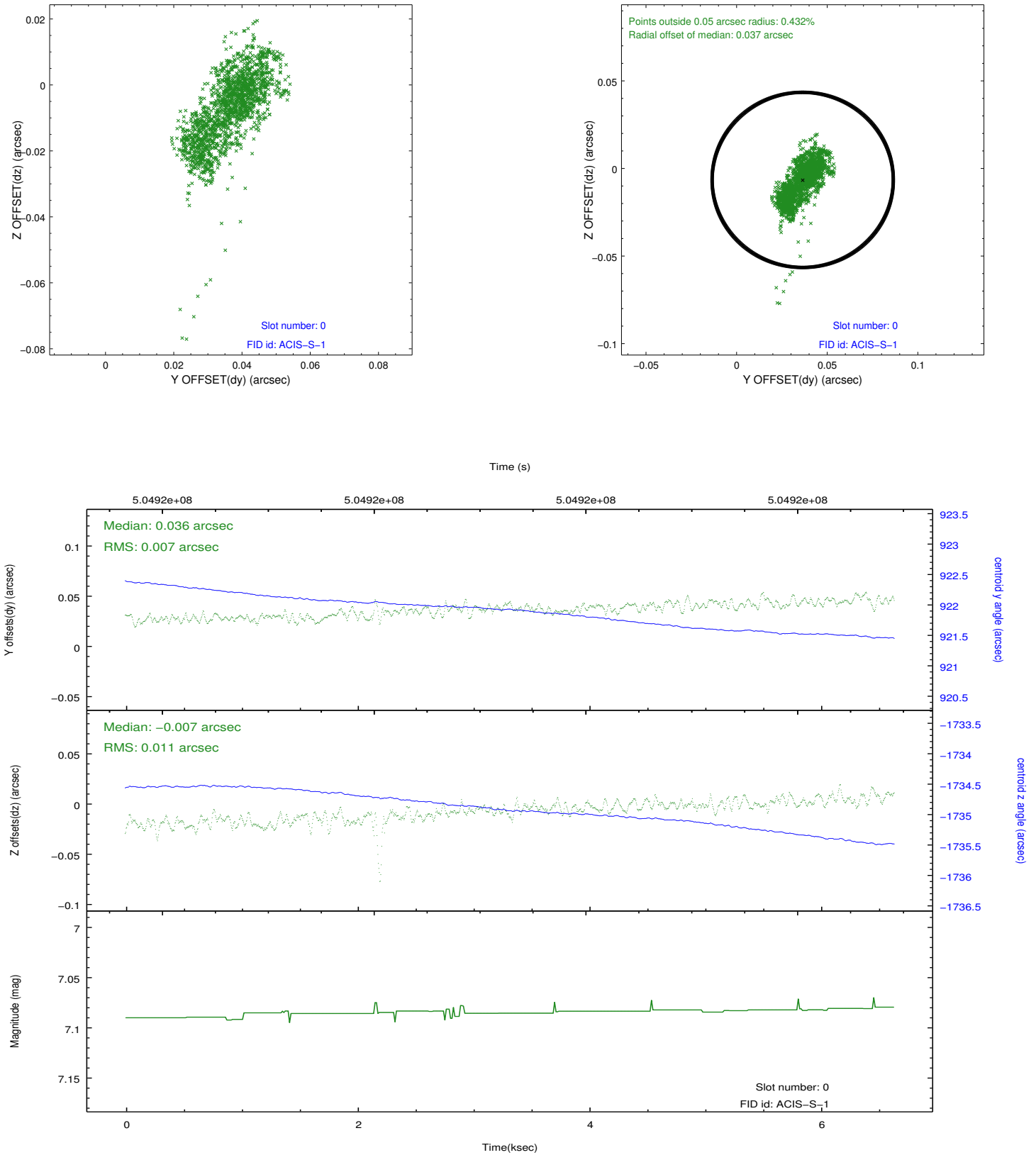


2.4.5 Slot 7

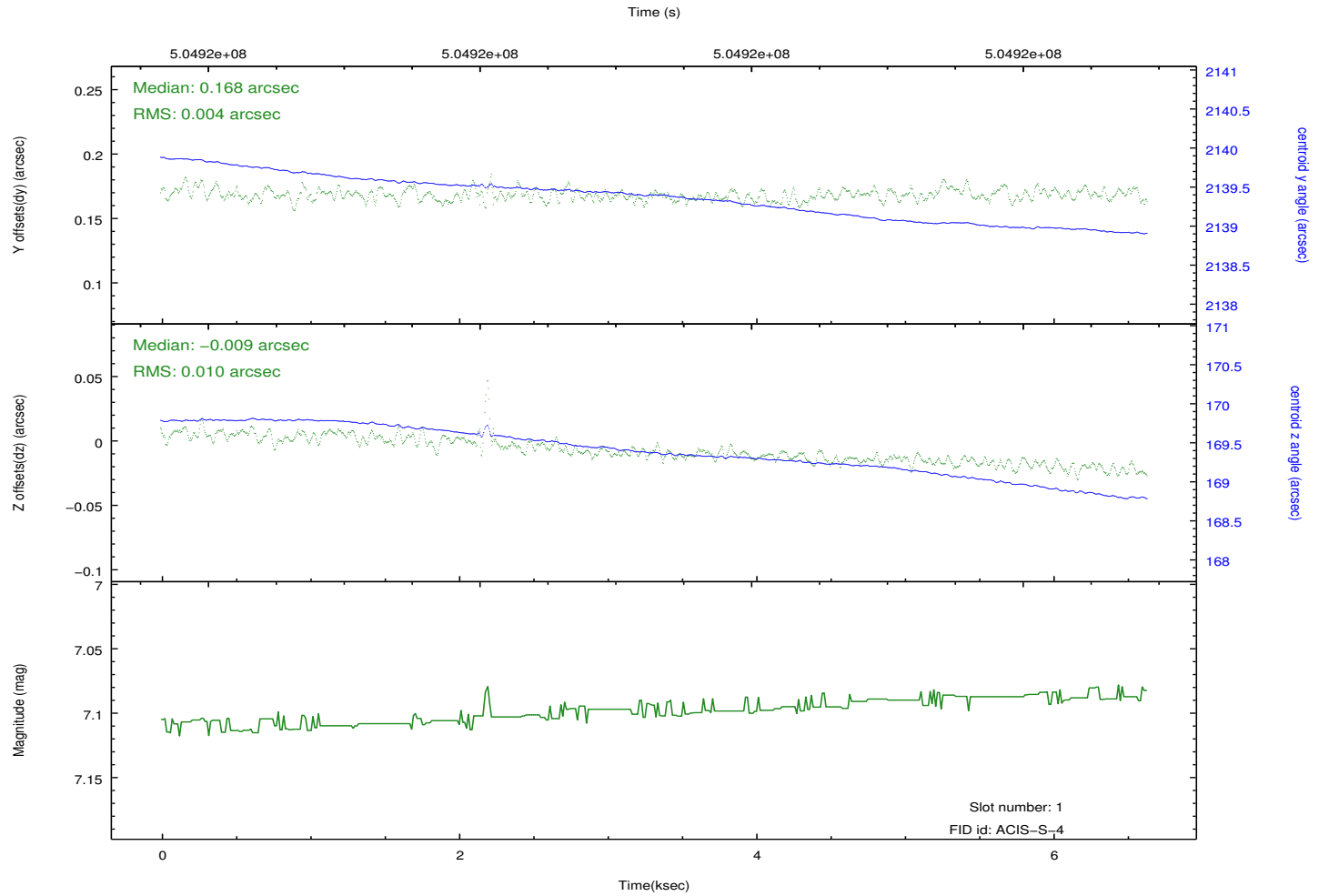
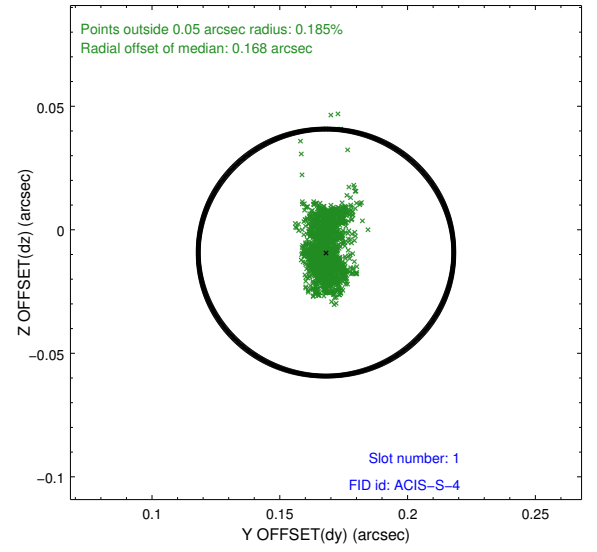
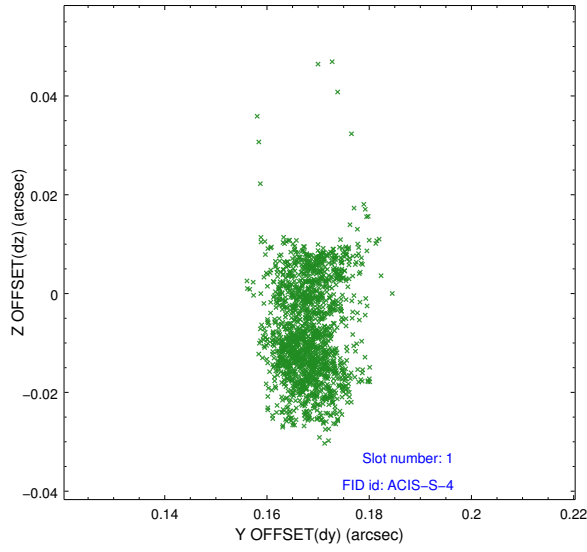


2.5 FID Slots

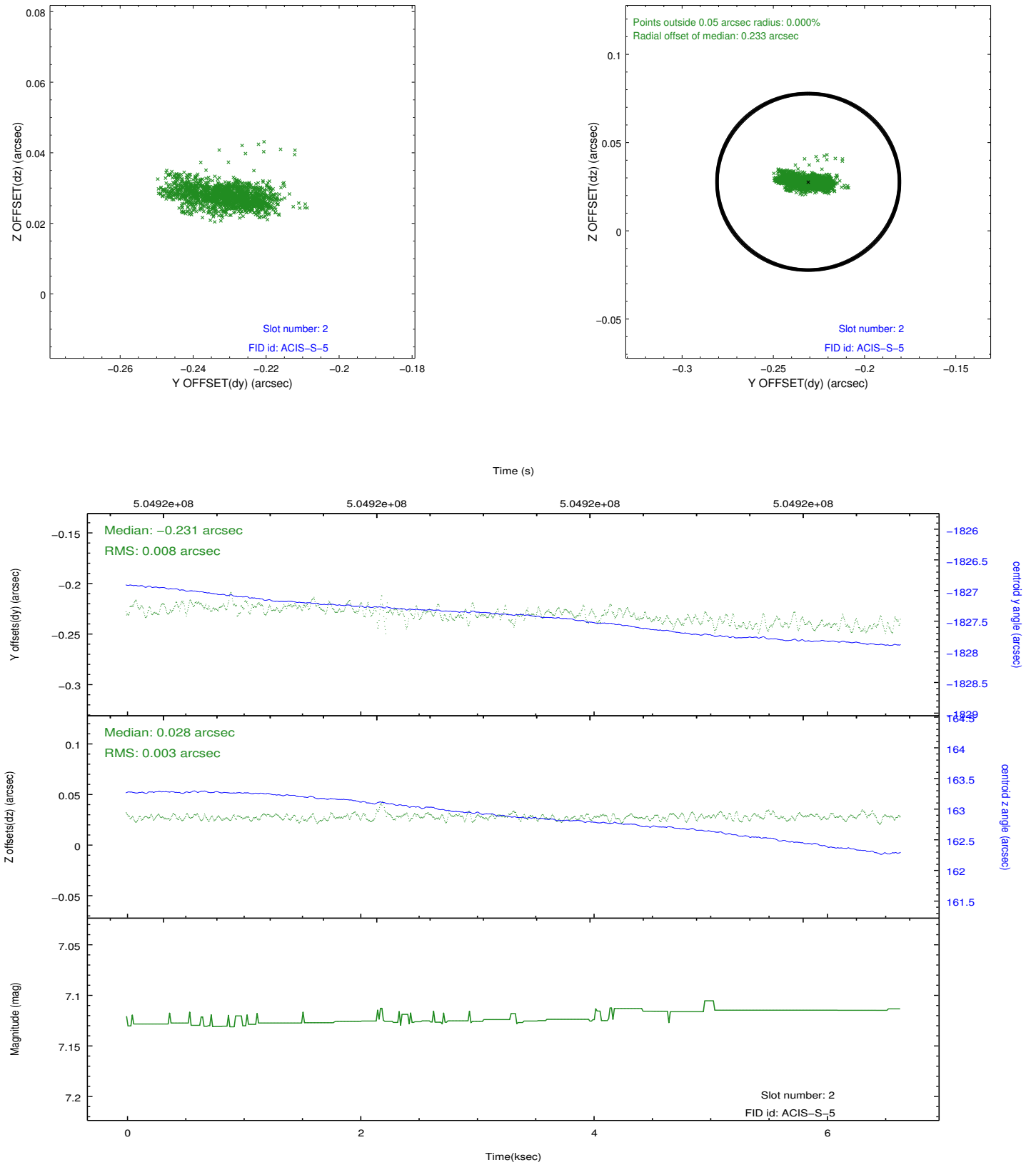
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1459115100503

A.2 Comments

Observation coordinated with Hobby-Eberly Telescope.

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.