

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16328 - L2 Version 2
Chandra X-Ray Center

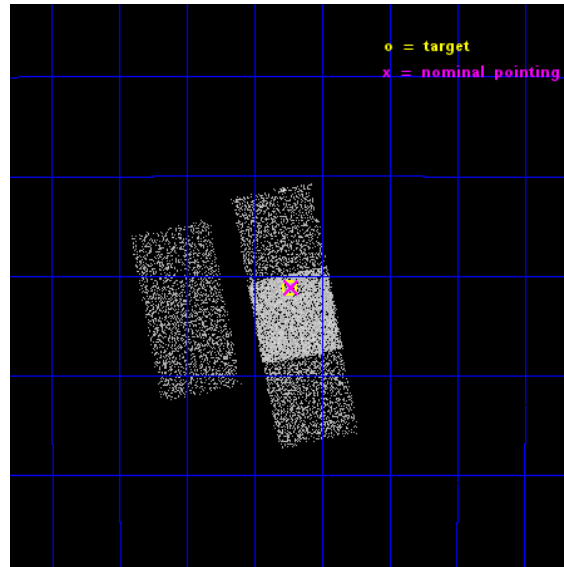
L2 Processing Date : Dec 9 2014

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1 Front

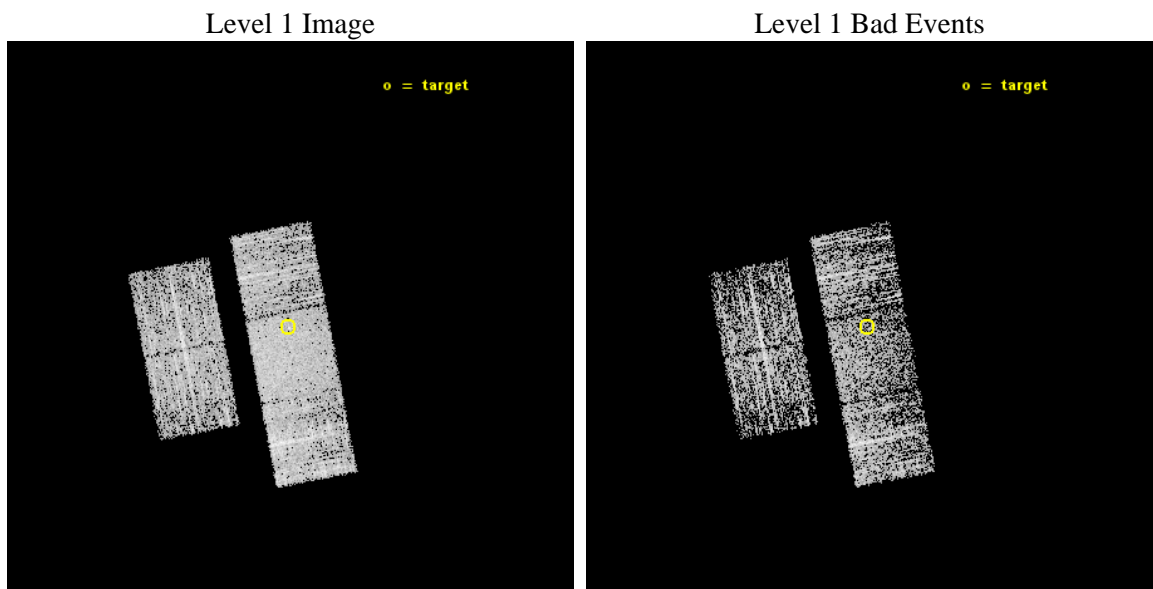
seq_num	200954	Sequence number
obs_id	16328	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16154416-1921171	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.934167	Observer's specified target RA [deg]
dec_targ	-19.35475	Observer's specified target Dec [deg]
ra_nom	243.93168874304	Nominal RA [deg]
dec_nom	-19.352696711007	Nominal Dec [deg]
roll_nom	78.956488998806	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3069.0000236034	Sum of GTIs [s]
livetime	3028.9012789301	Livetime [s]
ontime2	3069.0000236034	Sum of GTIs [s]
ontime3	3069.0000236034	Sum of GTIs [s]
ontime6	3069.0000236034	Sum of GTIs [s]
ontime7	3069.0000236034	Sum of GTIs [s]
ontime8	3065.8590532541	Sum of GTIs [s]
l2events	14868	Number of level 2 events



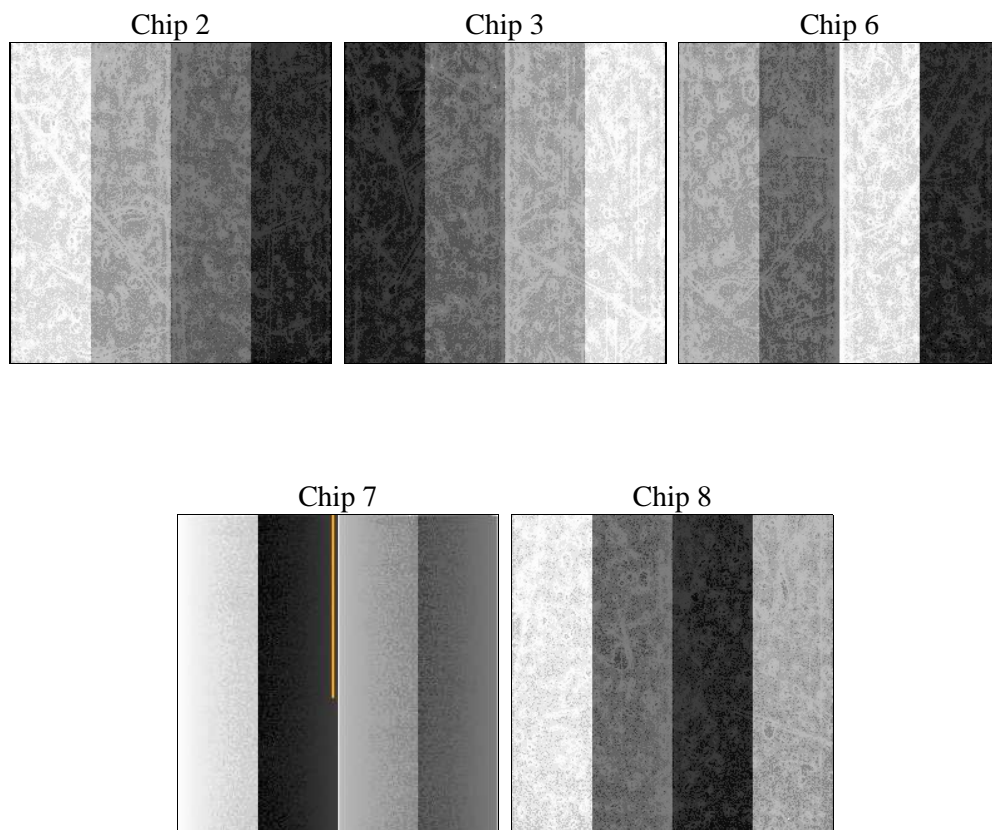
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3069.0000236034	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3069.0000236034	Sum of GTIs [s]
date	2014-12-10T02:26:25	Date and time of file creation	ontime3	3069.0000236034	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3069.0000236034	Sum of GTIs [s]
			ontime7	3069.0000236034	Sum of GTIs [s]
			ontime8	3065.8590532541	Sum of GTIs [s]
			l1events	83732	Number of level 1 events

2.1.4 Events

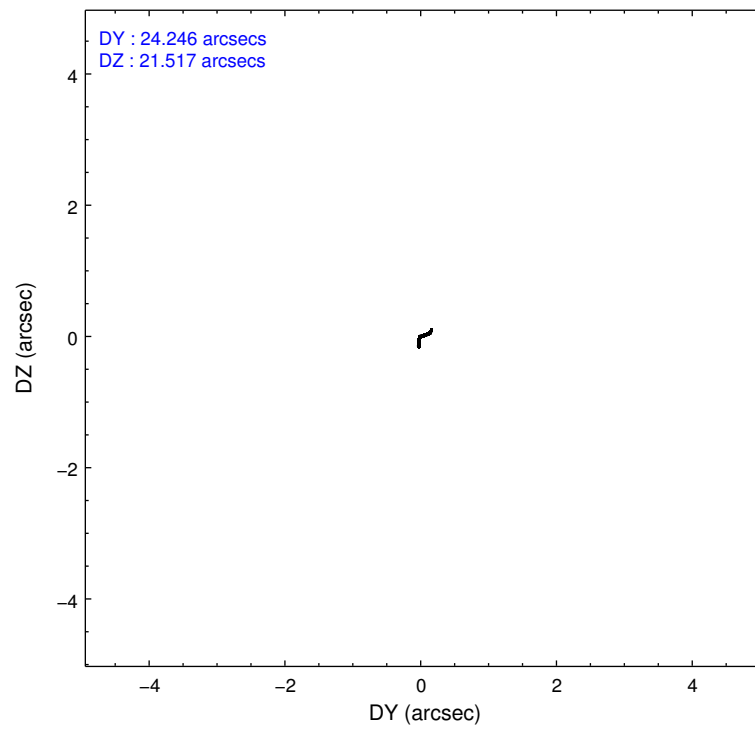
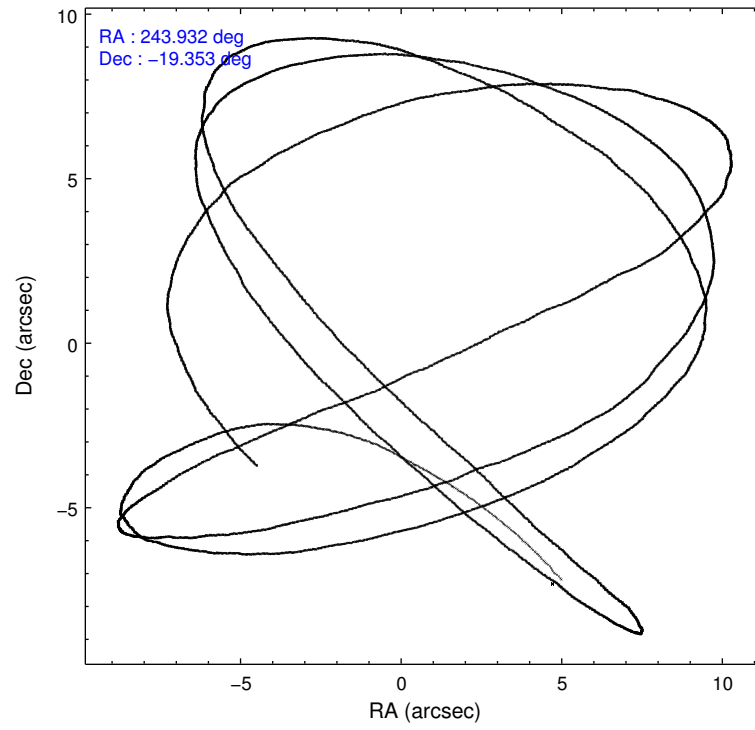
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	13934	14353	14862	20171	20412
rejected events	12283	12703	13045	11473	14815
rejected %	88%	88%	87%	56%	72%

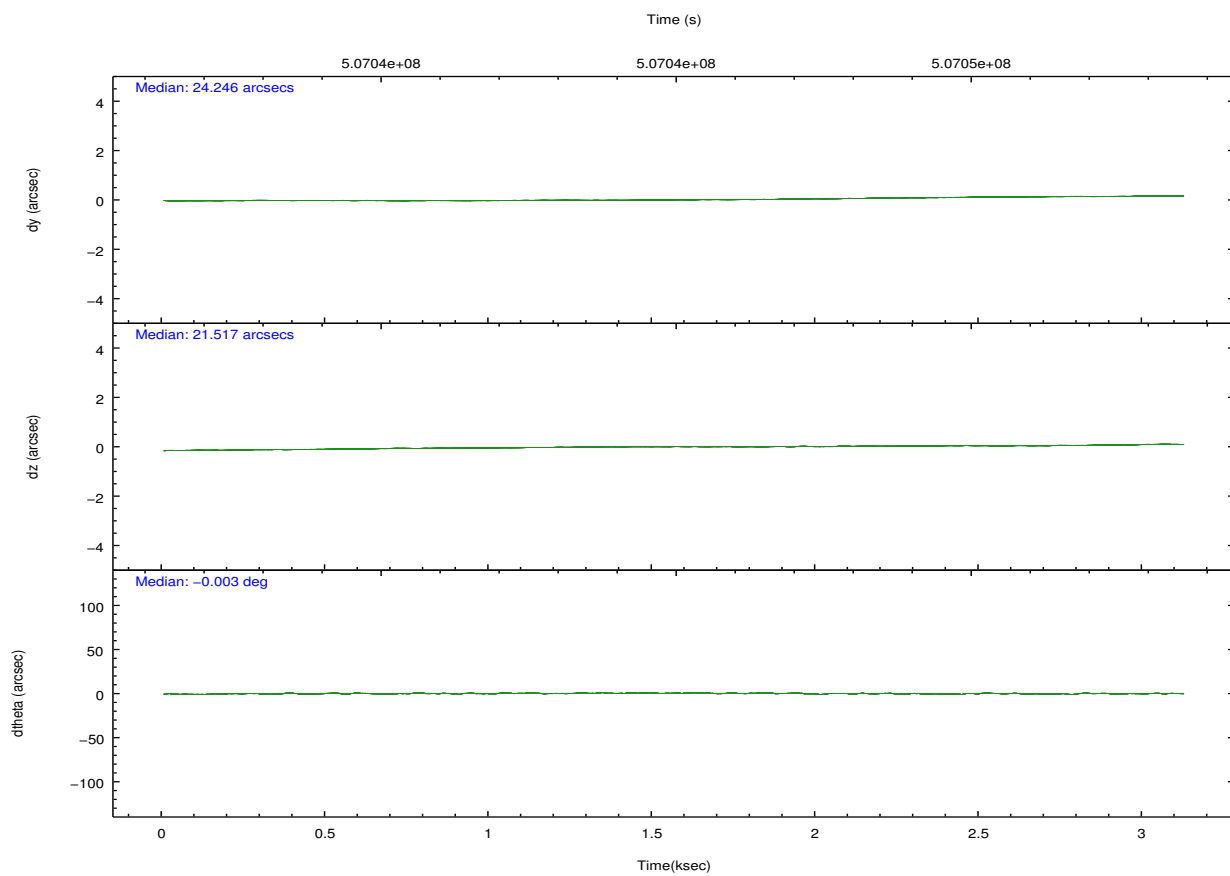
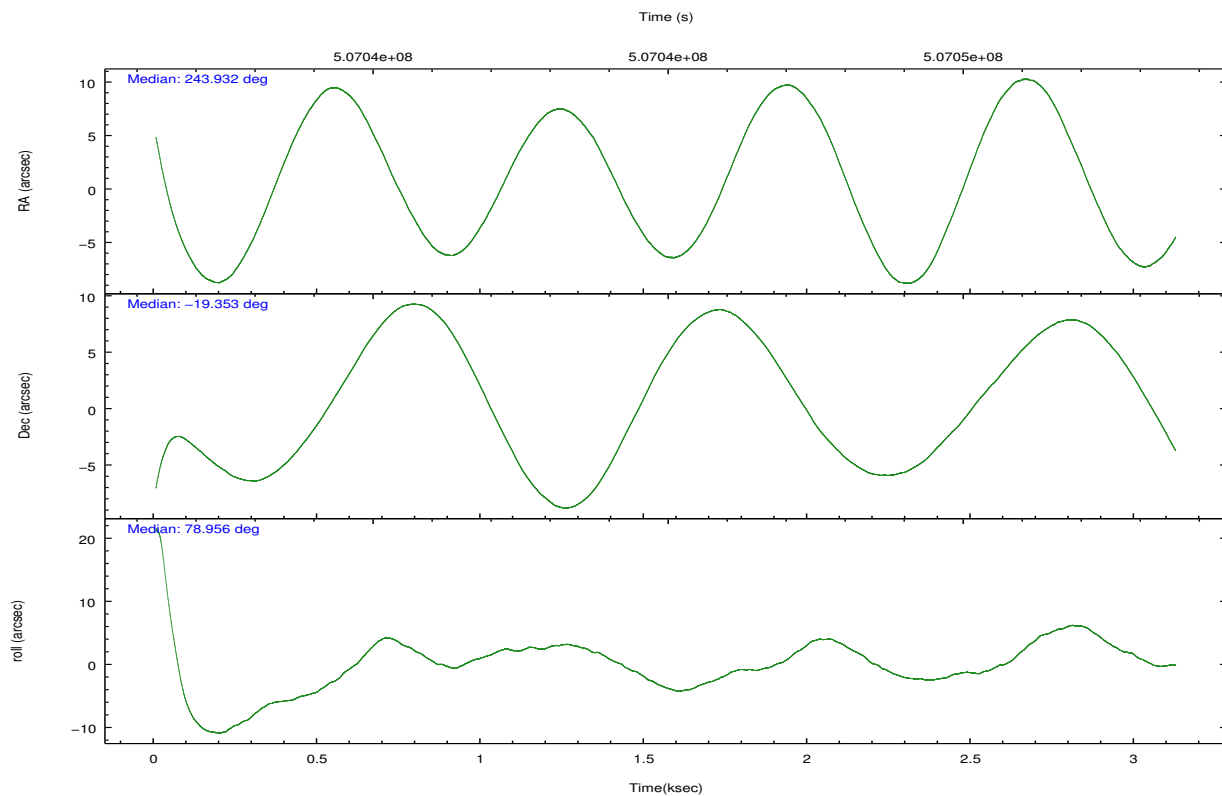
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	615	584	676	756	1668
	4%	4%	4%	3%	8%
grade 1 events	7	4	6	33	6
	0%	0%	0%	0%	0%
grade 2 events	418	381	395	1727	1258
	2%	2%	2%	8%	6%
grade 3 events	143	175	172	754	544
	1%	1%	1%	3%	2%
grade 4 events	168	175	173	724	556
	1%	1%	1%	3%	2%
grade 5 events	627	746	737	2057	1097
	4%	5%	4%	10%	5%
grade 6 events	313	338	403	4749	1584
	2%	2%	2%	23%	7%
grade 7 events	11643	11950	12300	9371	13699
	83%	83%	82%	46%	67%

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	243.941630	243.9316887430427	Subarray requested	NONE	NONE
[deg] Pointing Dec	-19.378404	-19.35269671100684	Alternating exposures requested	N	N
[deg] Pointing Roll	78.803050	78.95648899880598	[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)	507043554.184000	507042389.57309			
Observation start date	2014-01-25T13:24:47	2014-01-25T13:06:29			
[s] Observation end time (MET)	507046554.184000	507047522.77337			
Observation end date	2014-01-25T14:14:47	2014-01-25T14:32:02			
Read mode	TIMED	TIMED			

2.3 Aspect



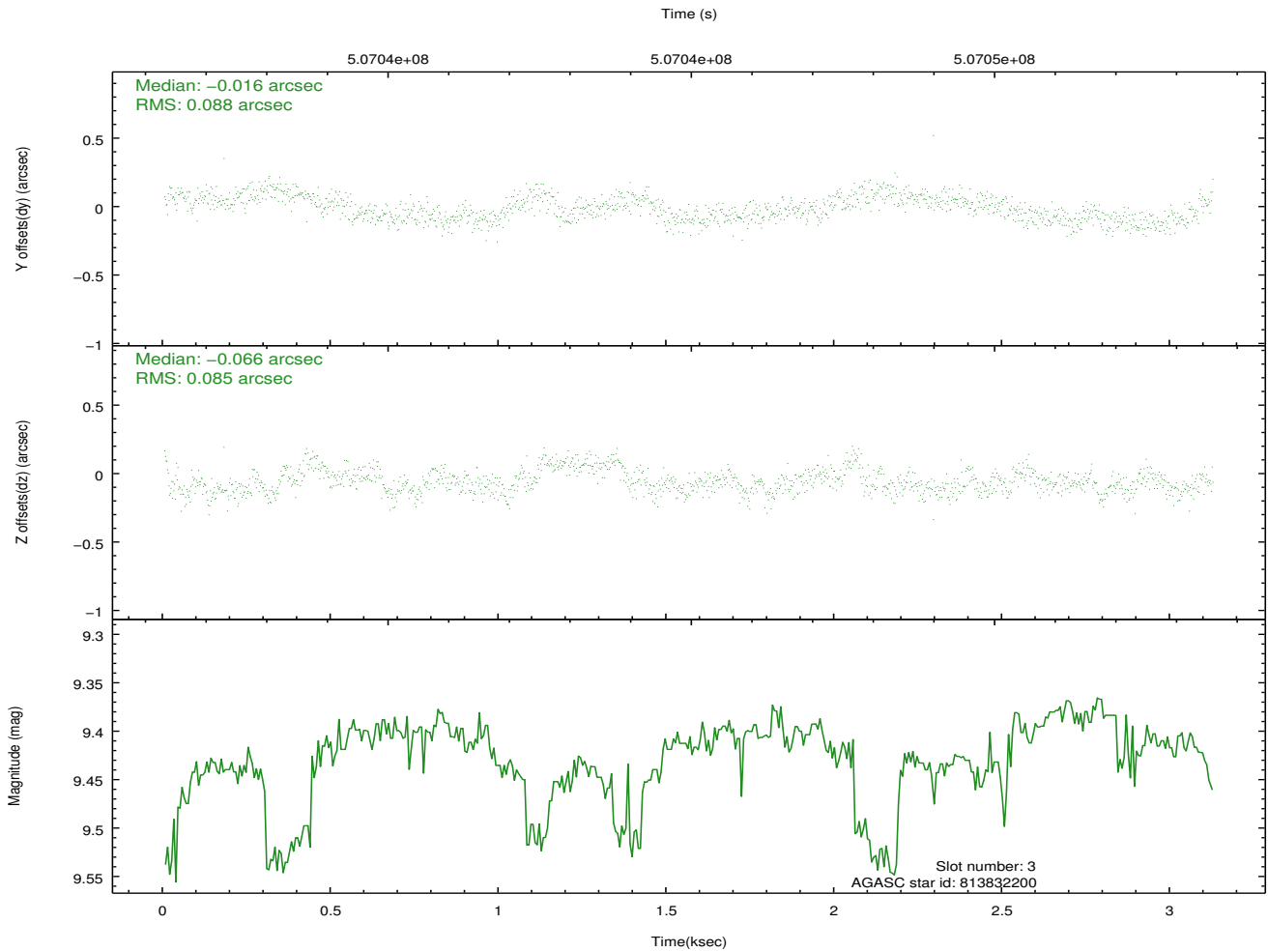
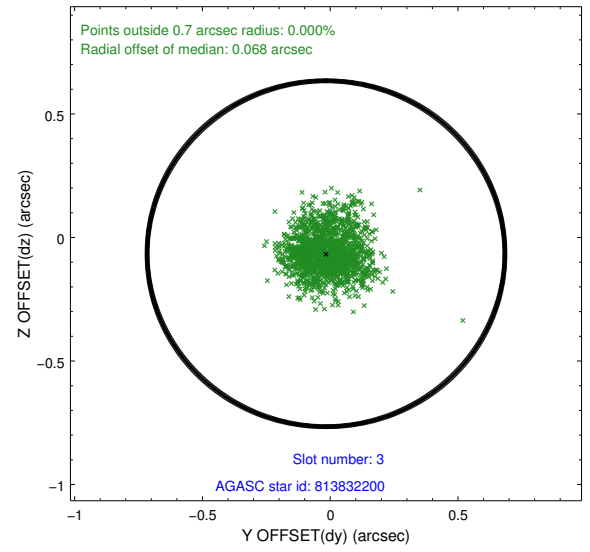
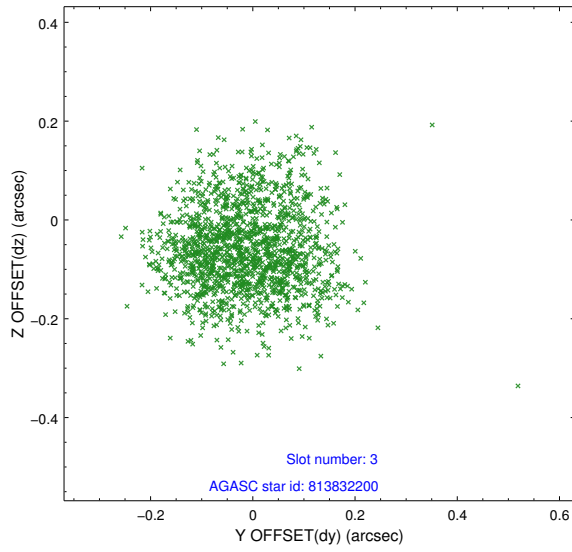


Slot Statistics

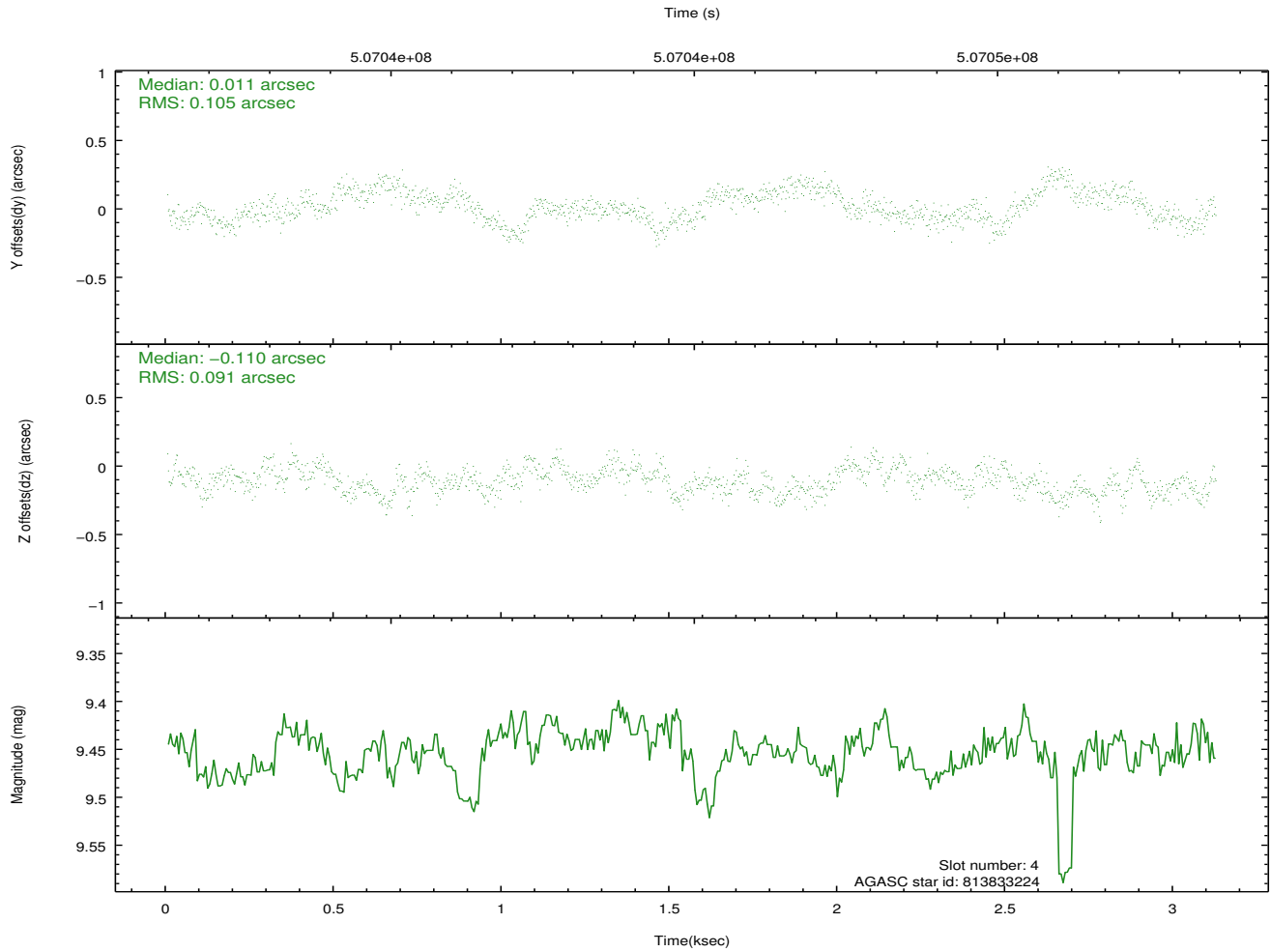
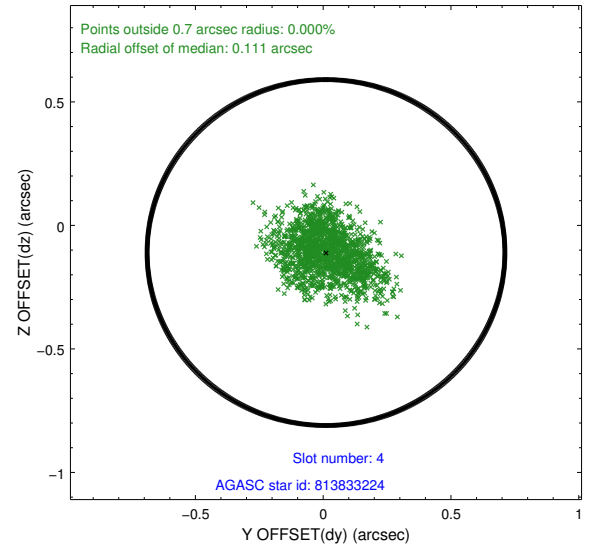
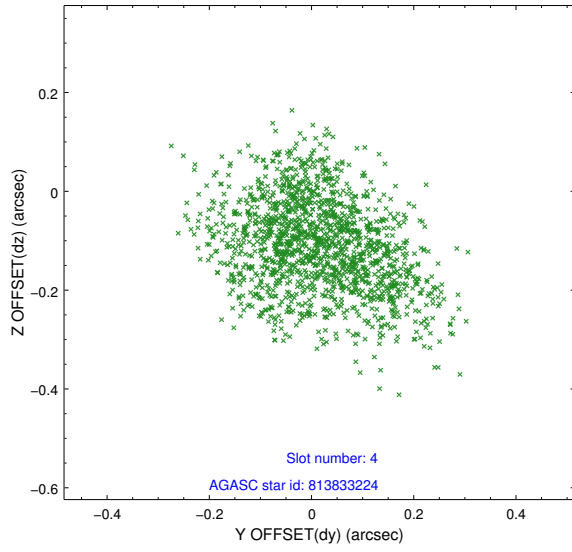
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	762	-0.162	-0.020	0.007	0.012	0.000000	0.000000	-777.68	-1743.01
1	FID		ACIS-S-4	7.08	762	0.338	0.084	0.006	0.012	0.000000	0.000000	2135.17	163.42
2	FID		ACIS-S-5	7.11	762	-0.207	-0.055	0.007	0.012	0.000000	0.000000	-1827.94	159.31
3	GUIDE	used	813832200	9.43	1523	-0.016	-0.066	0.131	0.204	243.557565	-19.660079	-1248.85	1079.51
4	GUIDE	used	813833224	9.45	1523	0.011	-0.110	0.151	0.238	243.553776	-19.336212	-108.93	1321.72
5	GUIDE	used	813836688	8.69	1524	-0.250	-0.160	0.104	0.160	243.555491	-18.836806	1654.10	1667.79
6	GUIDE	used	813836992	10.34	1506	-0.292	-0.183	0.266	0.422	243.434753	-18.770649	1809.30	2119.63
7	GUIDE	used	813963128	6.01	1523	0.534	0.550	0.086	0.141	244.246659	-20.104089	-2361.67	-1517.66

2.4 Star Slots

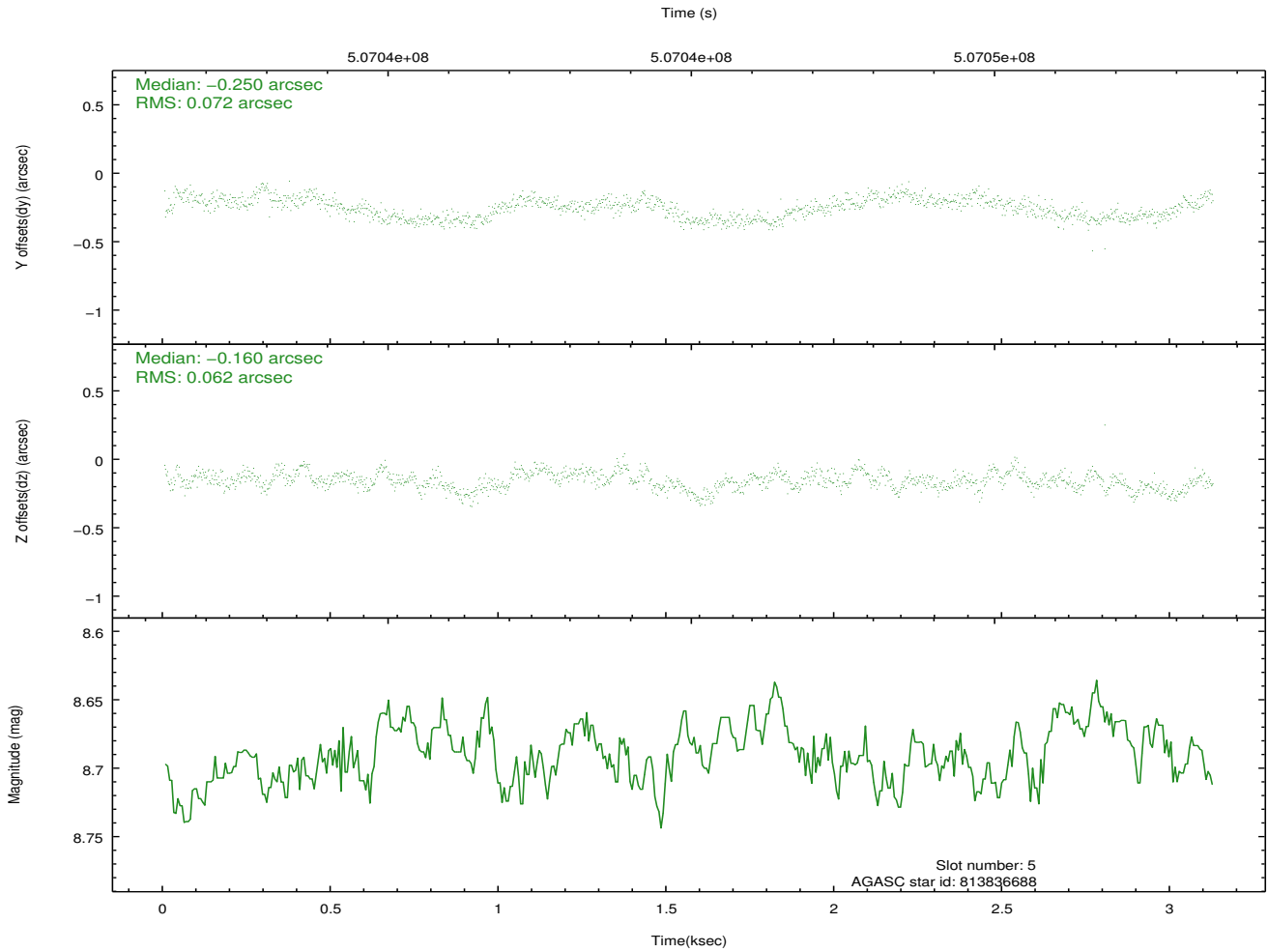
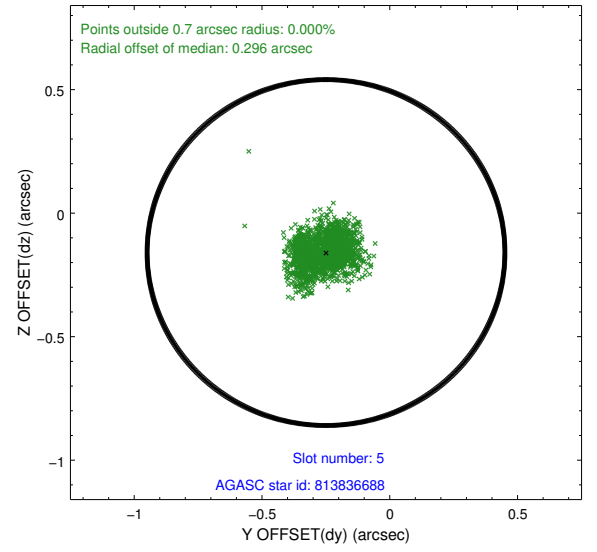
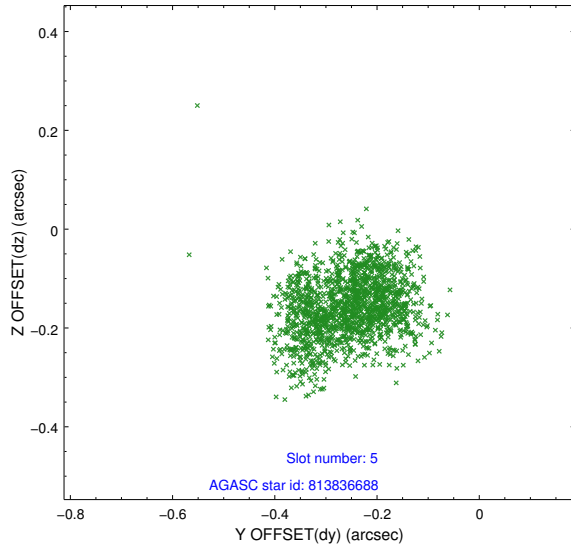
2.4.1 Slot 3



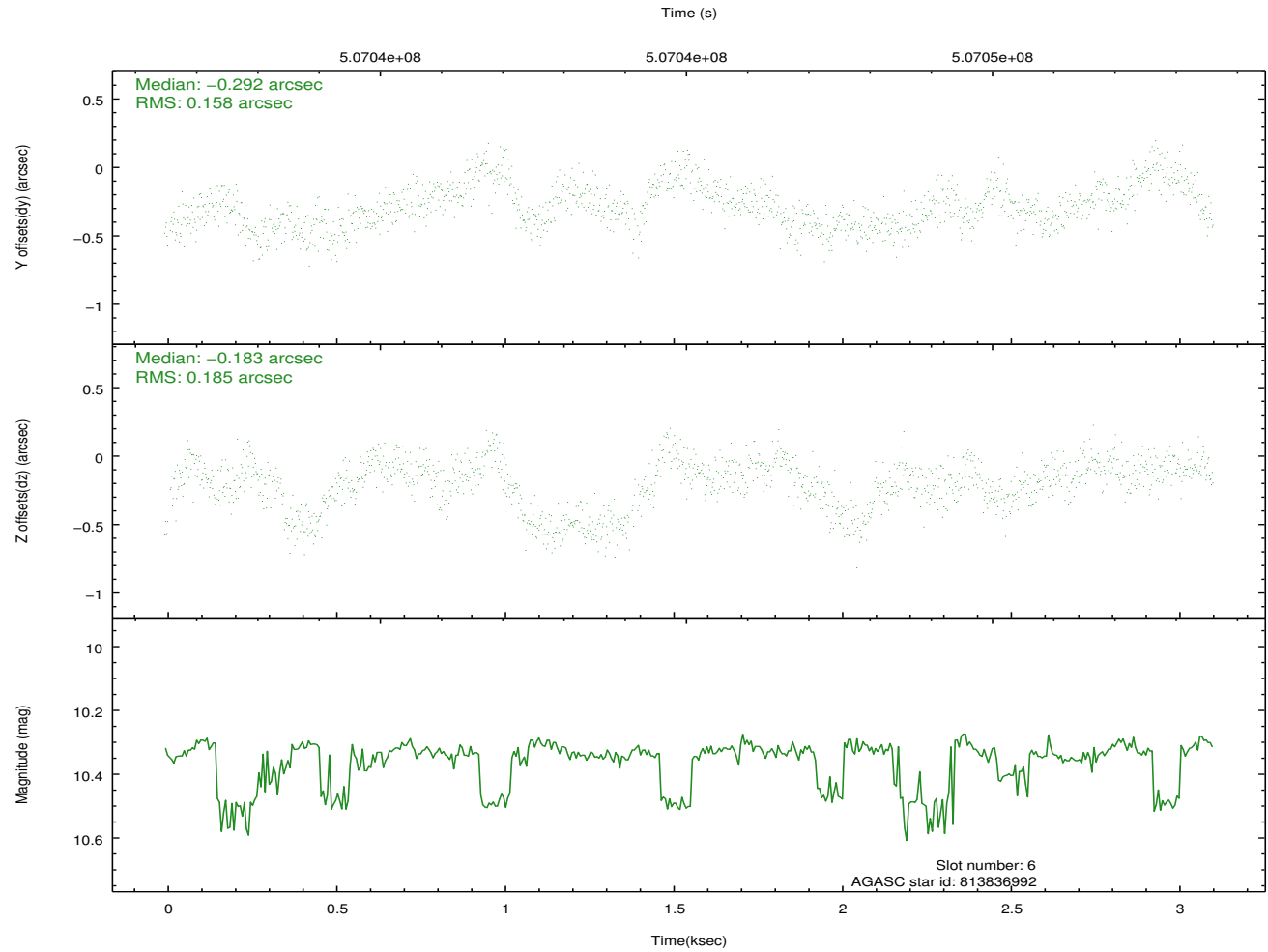
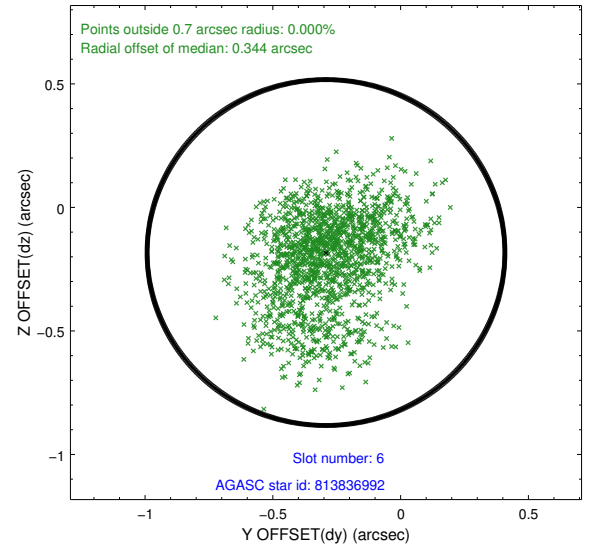
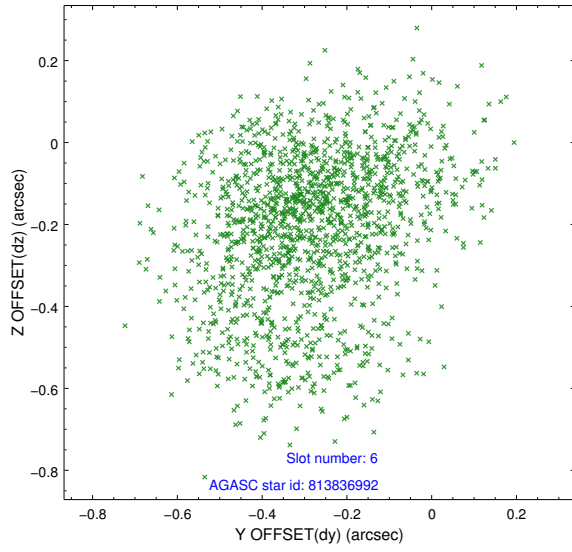
2.4.2 Slot 4



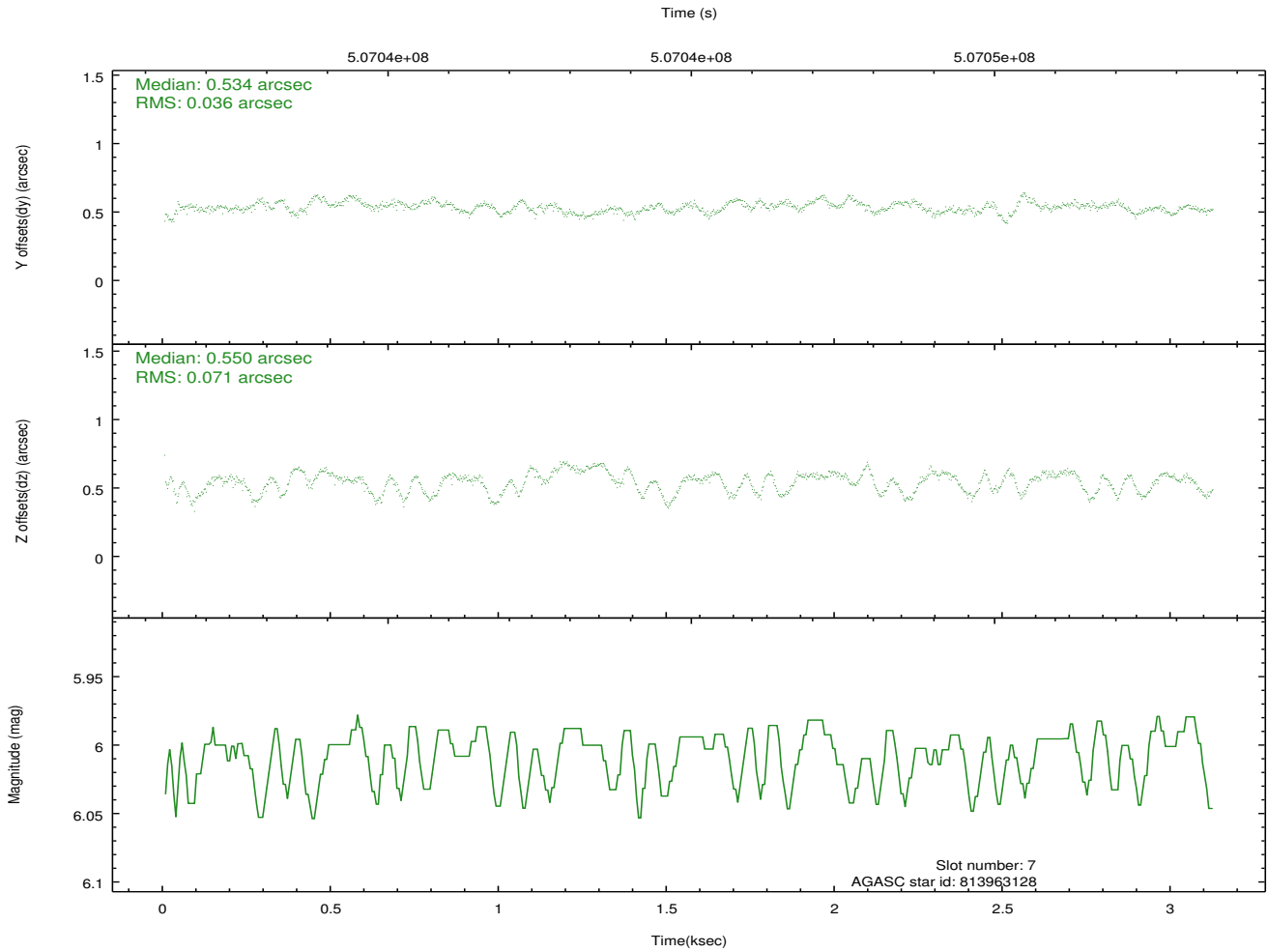
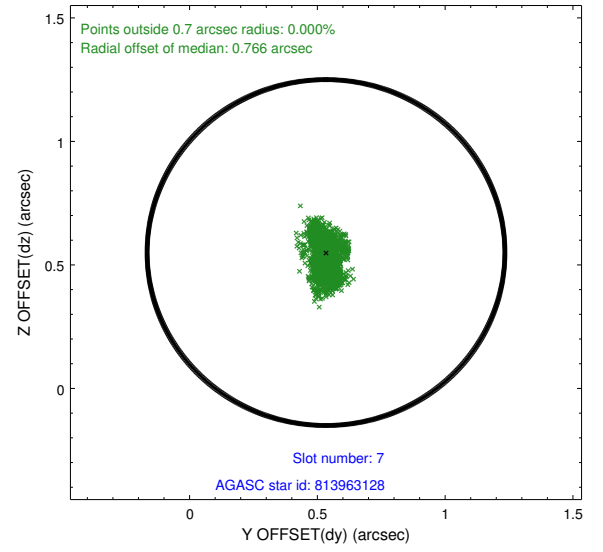
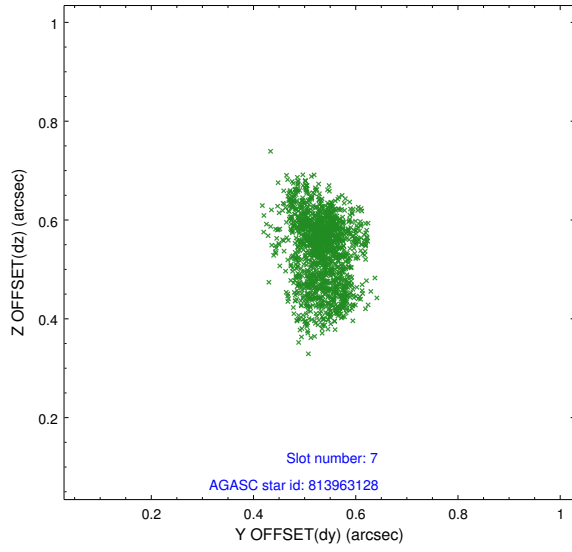
2.4.3 Slot 5



2.4.4 Slot 6

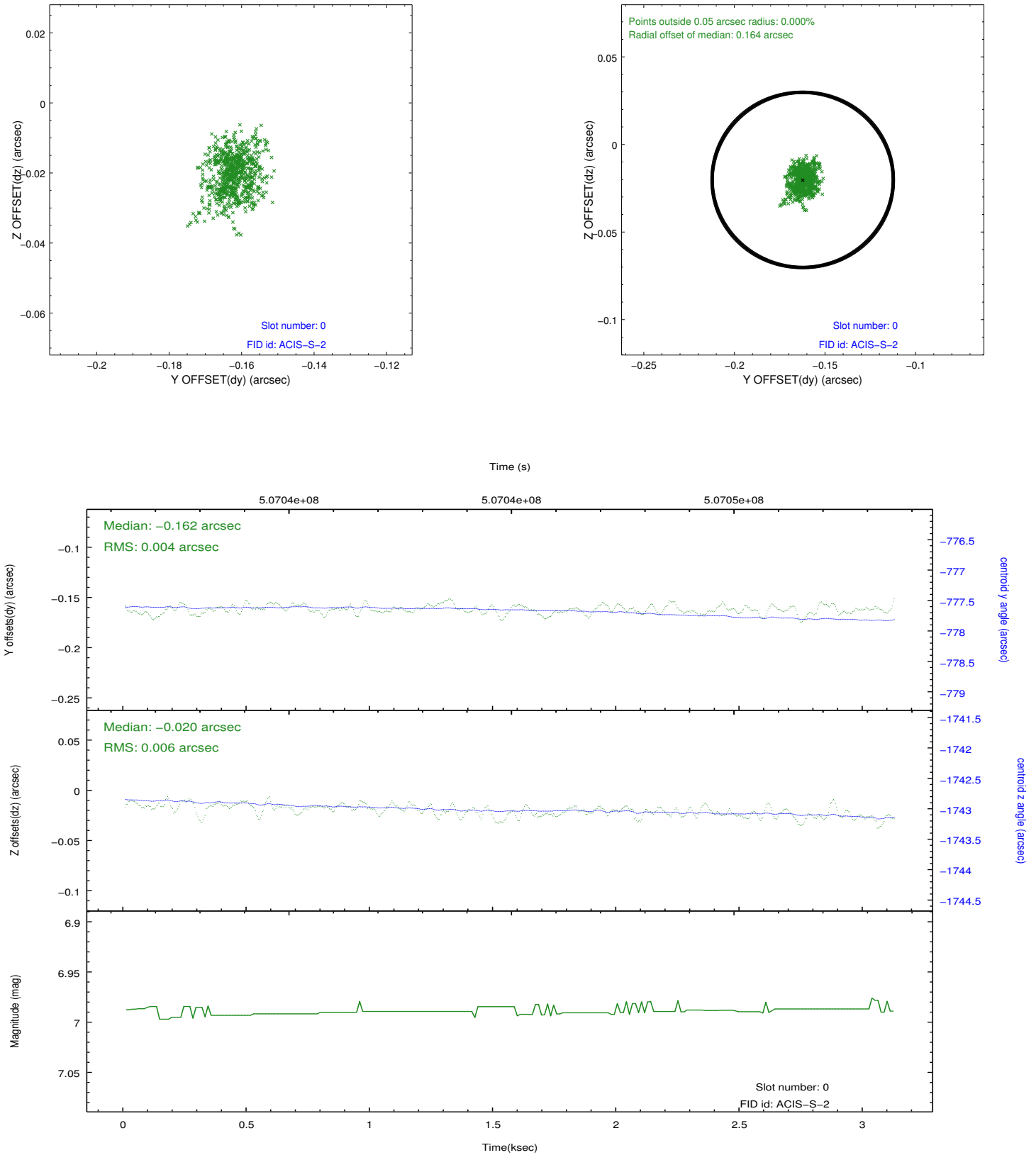


2.4.5 Slot 7

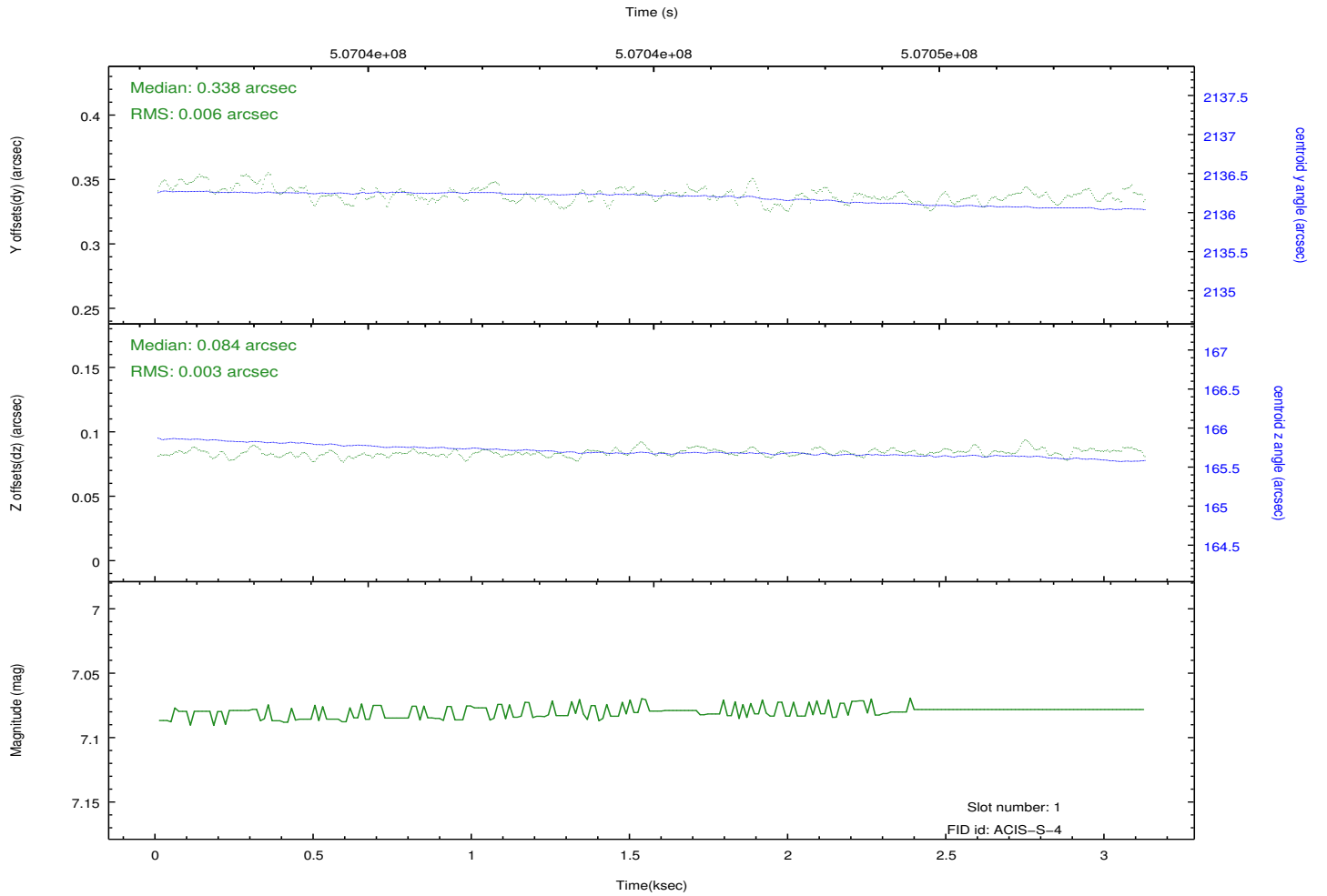
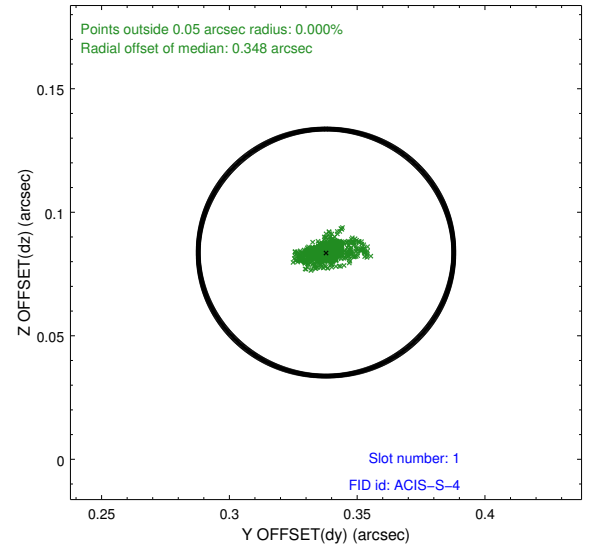
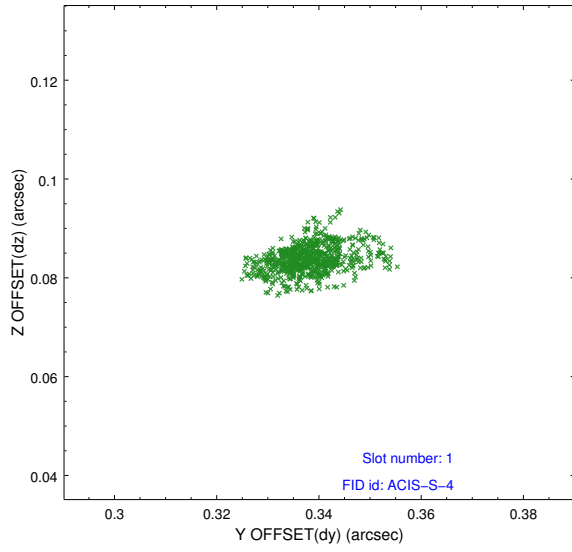


2.5 FID Slots

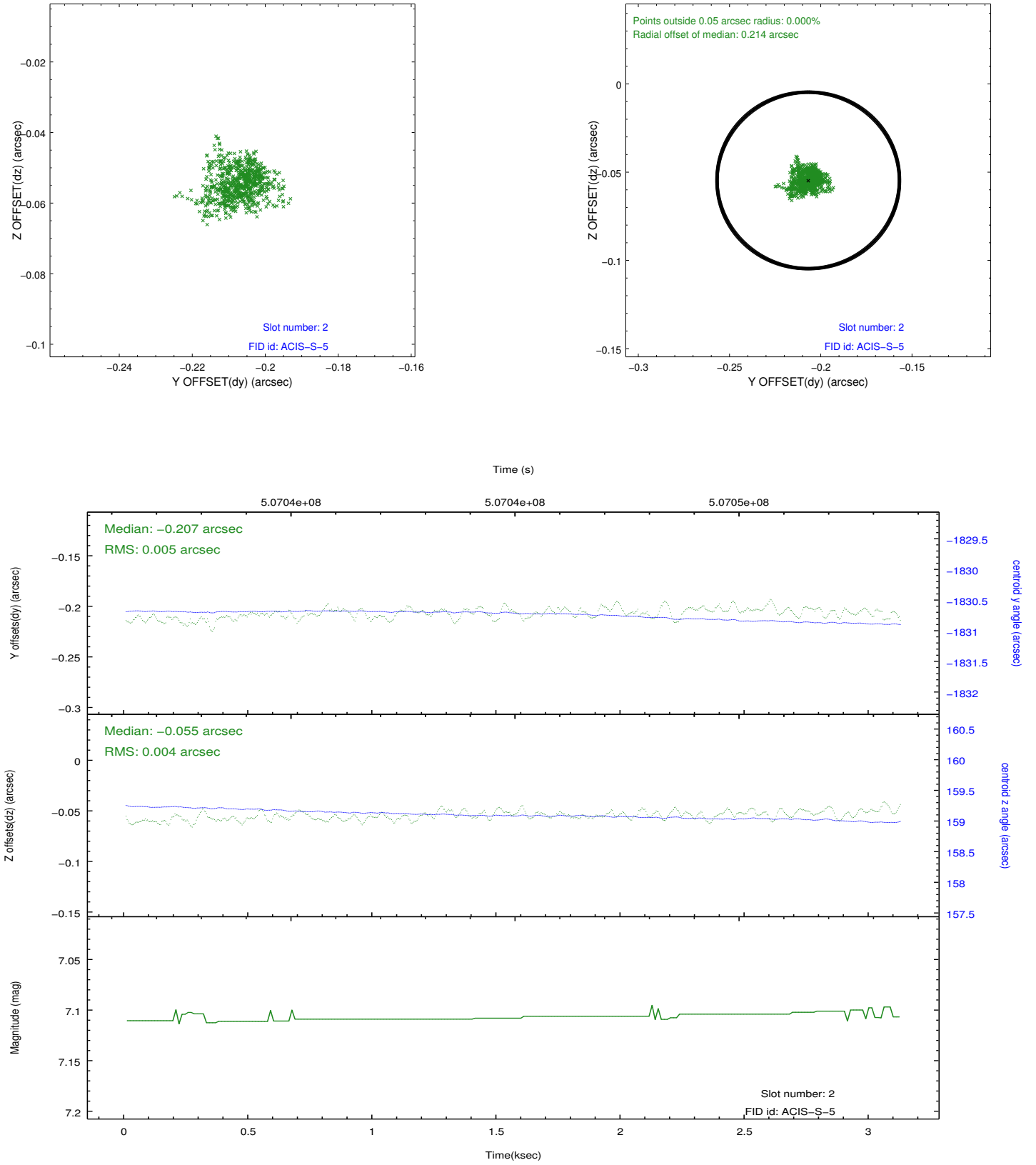
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0690000236034

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.