

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16338 - L2 Version 2
Chandra X-Ray Center

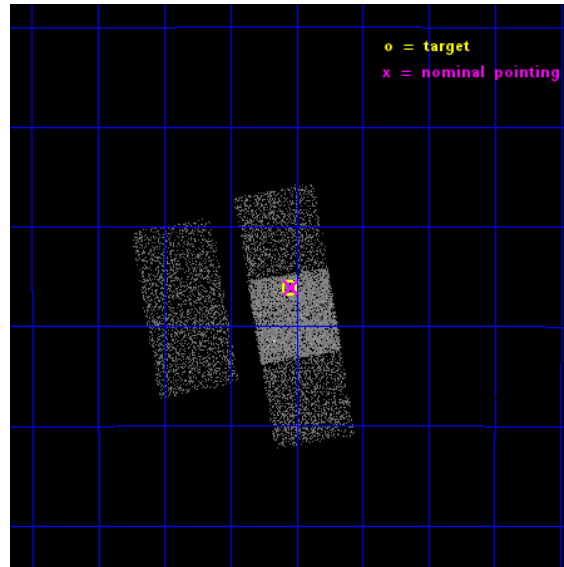
L2 Processing Date : Dec 9 2014

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1 Front

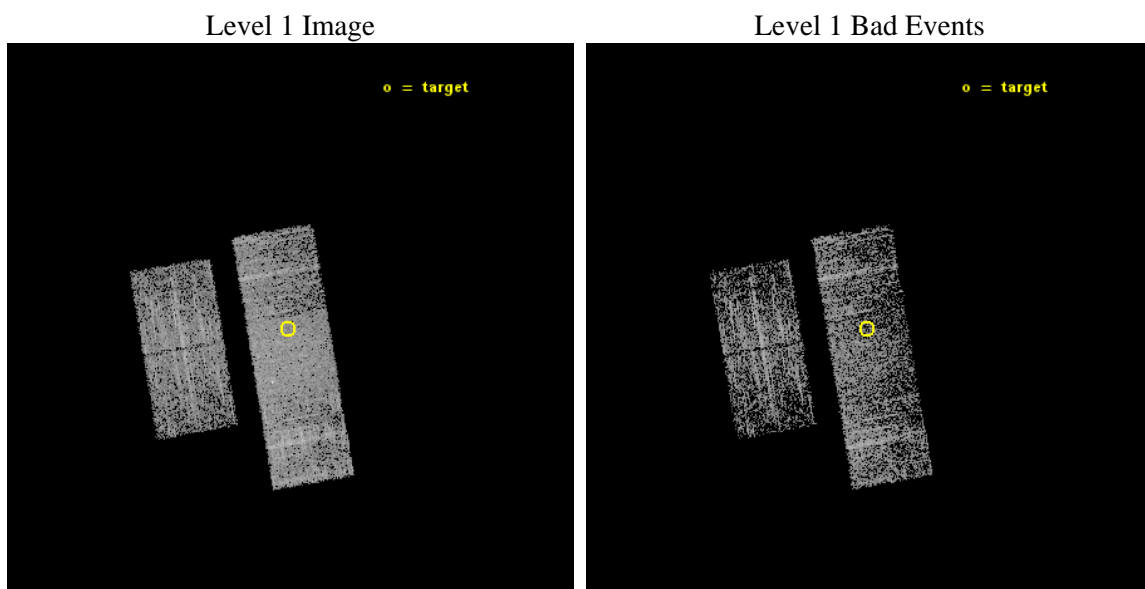
seq_num	200964	Sequence number
obs_id	16338	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16020287-2236139	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	240.512083	Observer's specified target RA [deg]
dec_targ	-22.603861	Observer's specified target Dec [deg]
ra_nom	240.50952185373	Nominal RA [deg]
dec_nom	-22.601918262099	Nominal Dec [deg]
roll_nom	80.301183453709	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	3069.0000236034	Sum of GTIs [s]
l2events	15307	Number of level 2 events



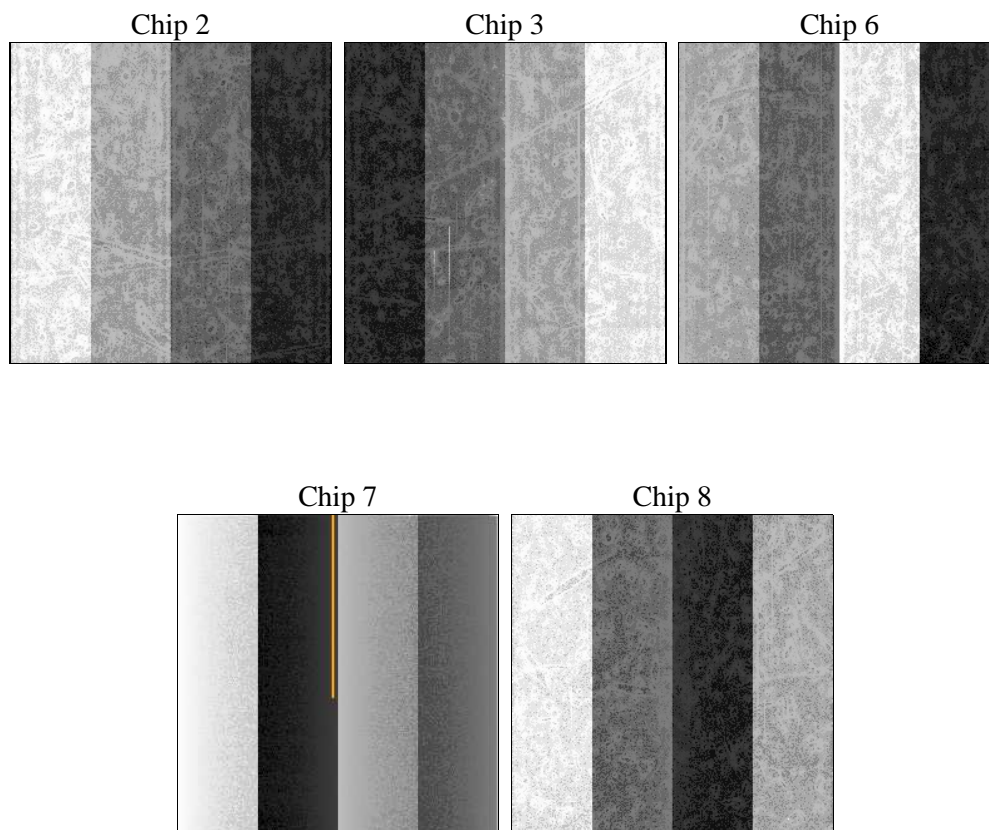
2 OBI

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	3069.0000236034	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3069.0000236034	Sum of GTIs [s]
date	2014-12-09T21:47:08	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	3069.0000236034	Sum of GTIs [s]
			l1events	80907	Number of level 1 events

2.1.4 Events

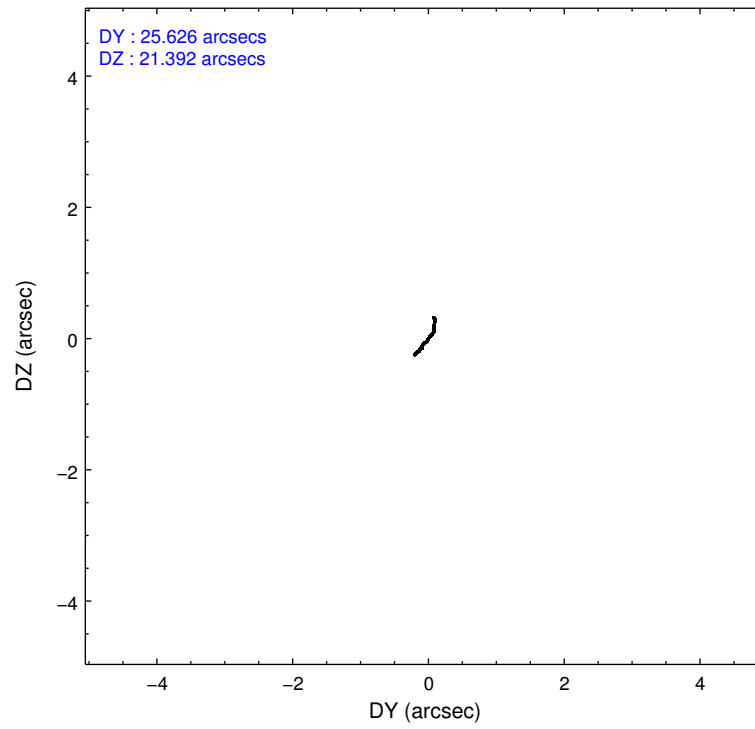
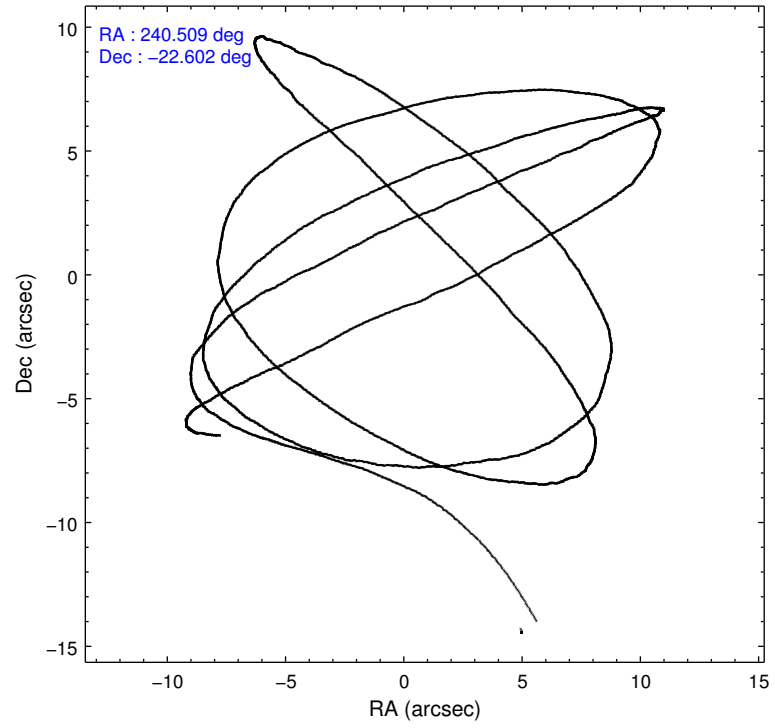
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	13911	12556	14059	20526	19855
rejected events	12195	10888	12248	11378	14379
rejected %	87%	86%	87%	55%	72%

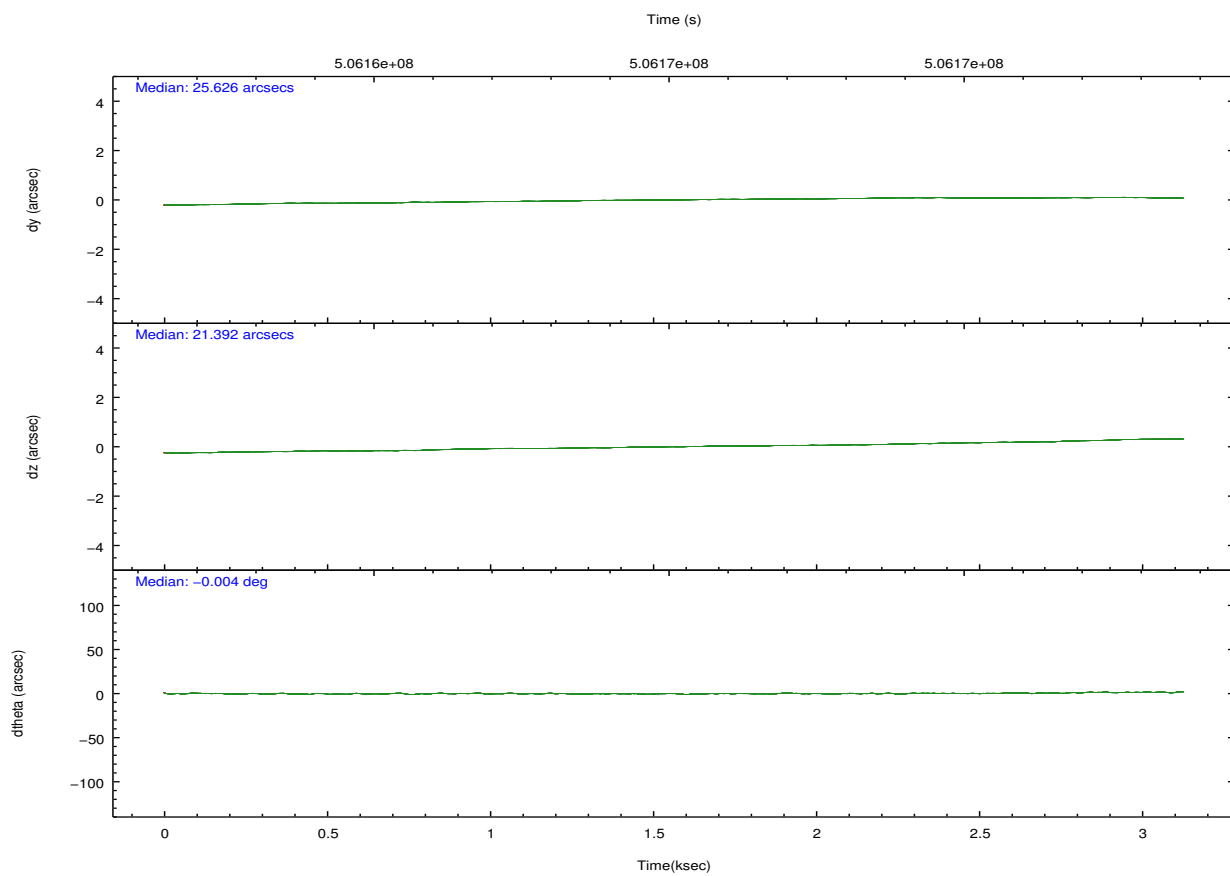
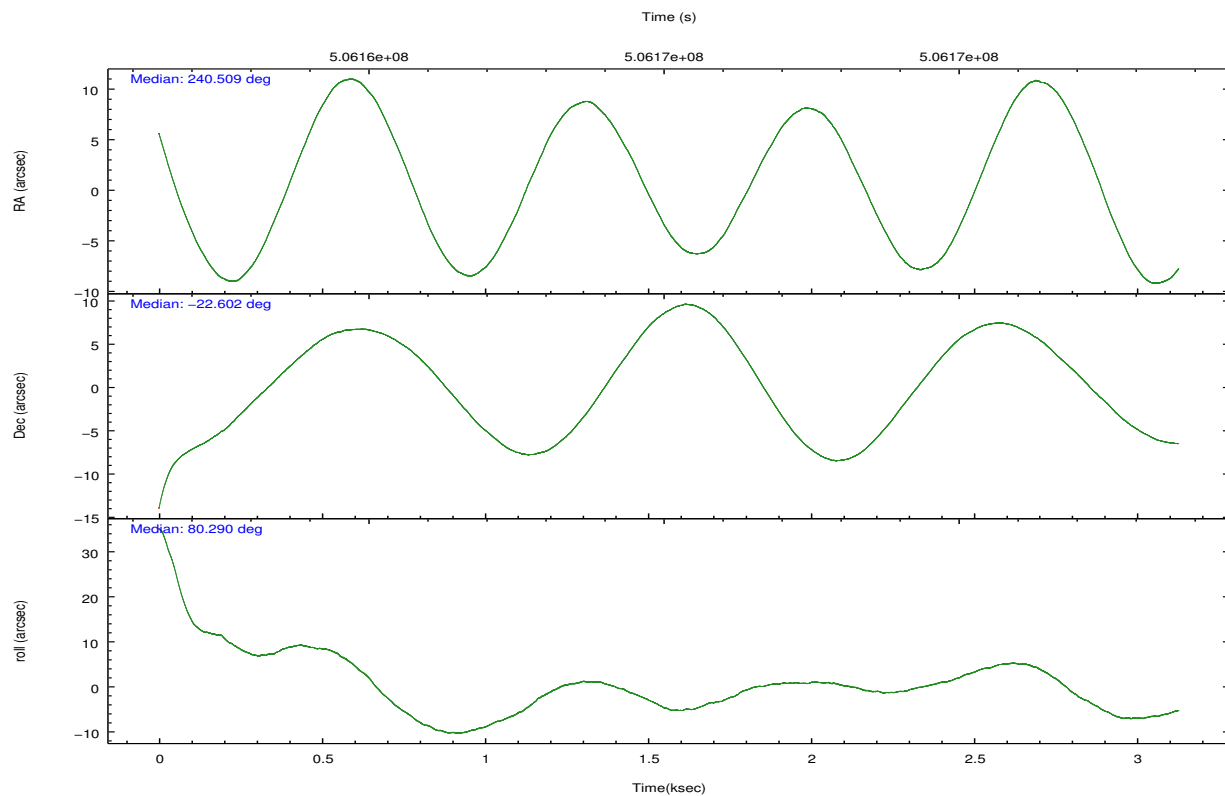
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	610	632	624	913	1645
	4%	5%	4%	4%	8%
grade 1 events	6	15	7	27	21
	0%	0%	0%	0%	0%
grade 2 events	415	361	384	1907	1318
	2%	2%	2%	9%	6%
grade 3 events	171	165	187	762	556
	1%	1%	1%	3%	2%
grade 4 events	183	185	176	793	520
	1%	1%	1%	3%	2%
grade 5 events	614	701	791	2021	1117
	4%	5%	5%	9%	5%
grade 6 events	342	327	441	4787	1455
	2%	2%	3%	23%	7%
grade 7 events	11570	10170	11449	9316	13223
	83%	80%	81%	45%	66%

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	240.520306	240.5095218537308	Subarray requested	NONE	NONE
[deg] Pointing Dec	-22.627335	-22.60191826209858	Alternating exposures requested	N	N
[deg] Pointing Roll	80.148661	80.3011834537086	[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)	506164575.184000	506163050.22471			
Observation start date	2014-01-15T09:15:08	2014-01-15T08:50:50			
[s] Observation end time (MET)	506167575.184000	506167743.18746			
Observation end date	2014-01-15T10:05:08	2014-01-15T10:09:03			
Read mode	TIMED	TIMED			

2.3 Aspect



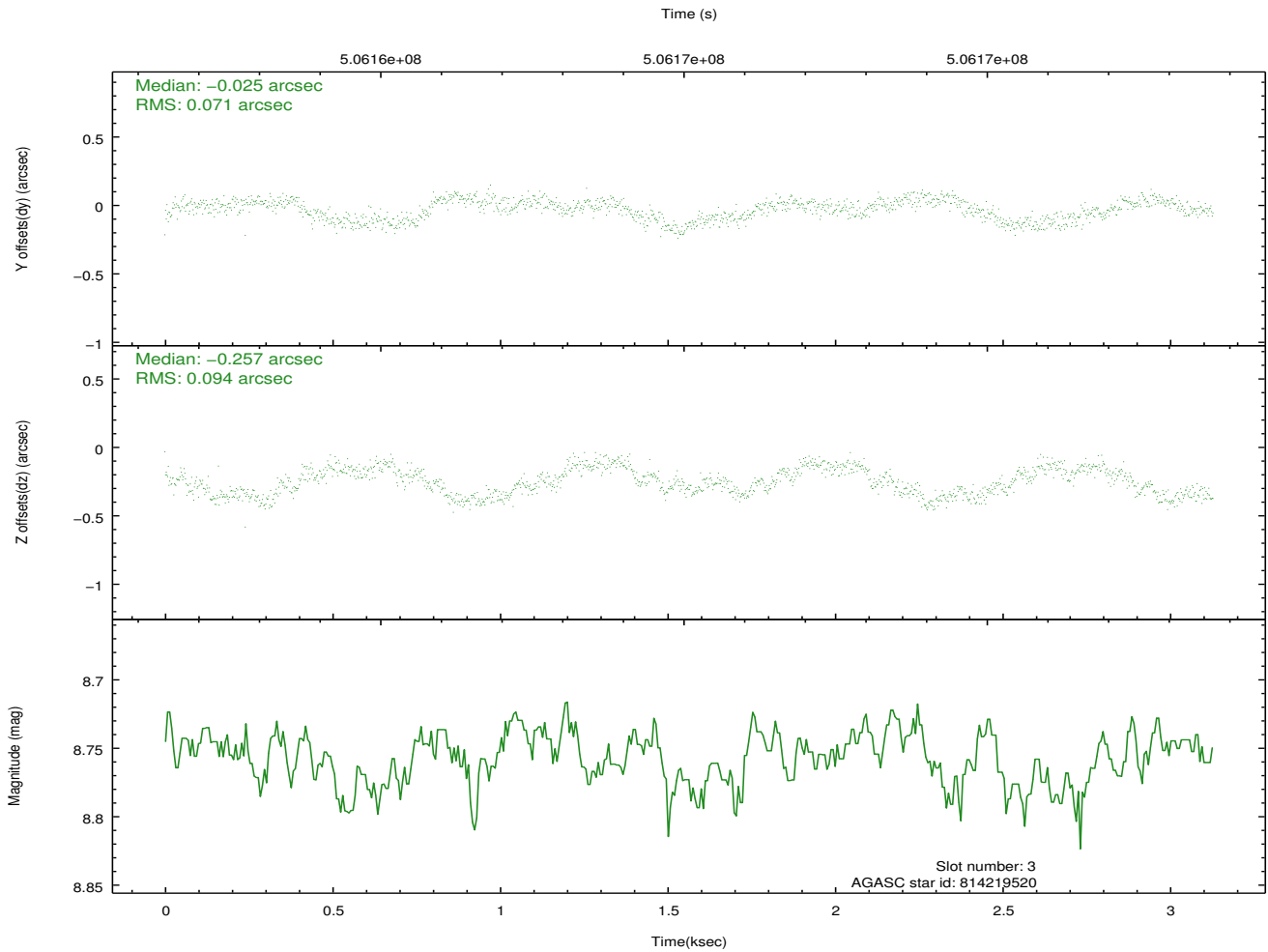
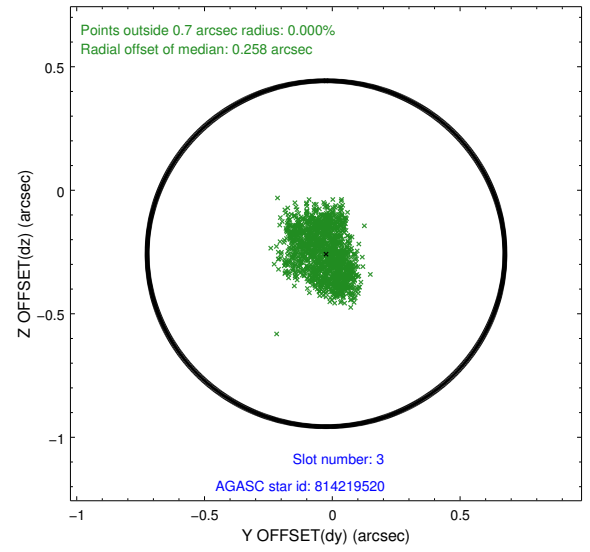
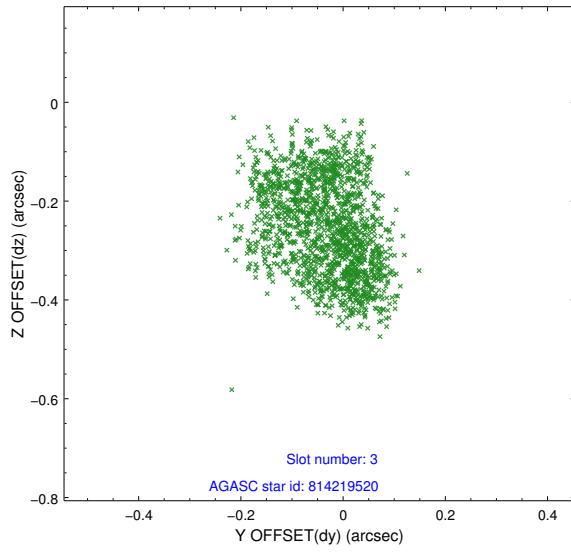


Slot Statistics

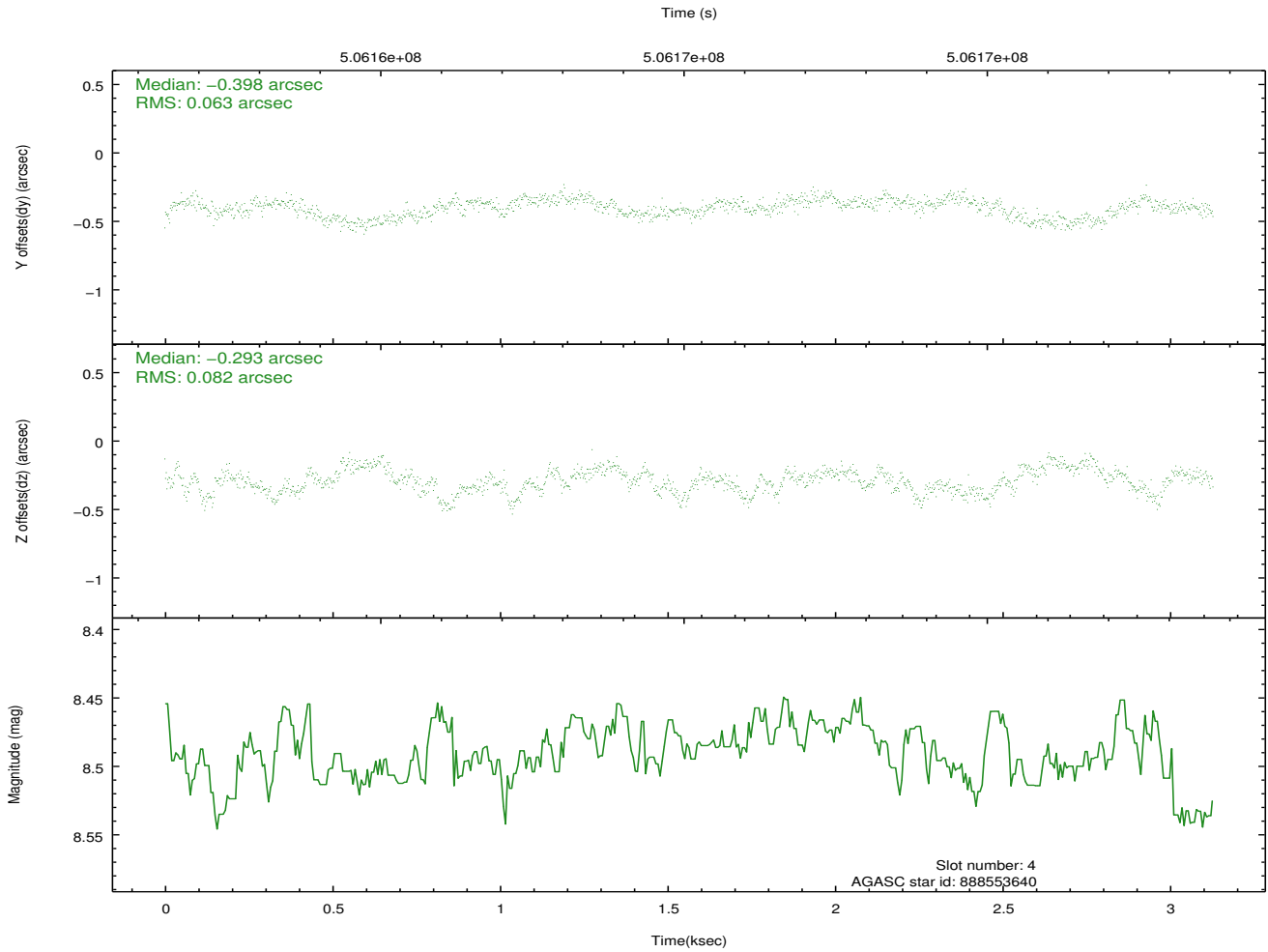
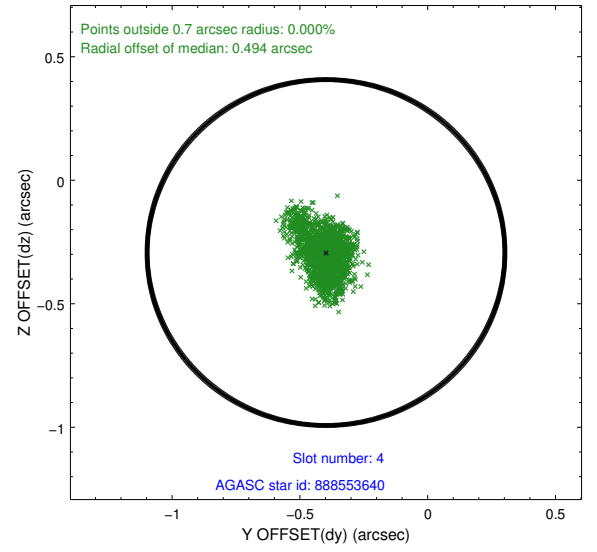
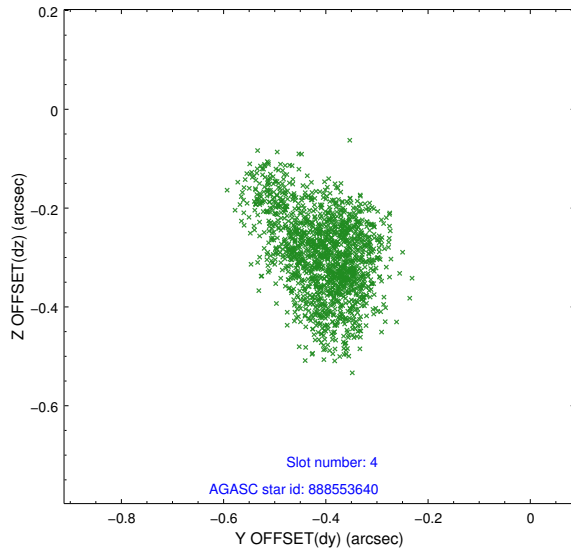
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.95	763	-0.173	-0.010	0.009	0.014	0.000000	0.000000	-779.04	-1742.91
1	FID		ACIS-S-4	7.05	764	0.329	0.087	0.006	0.011	0.000000	0.000000	2133.79	163.55
2	FID		ACIS-S-5	7.07	762	-0.187	-0.067	0.008	0.014	0.000000	0.000000	-1829.30	159.39
3	GUIDE	used	814219520	8.76	1527	-0.025	-0.257	0.131	0.188	240.130497	-22.313894	888.29	1471.58
4	GUIDE	used	888553640	8.49	1526	-0.398	-0.293	0.109	0.185	239.929063	-22.682875	-536.41	1900.38
5	GUIDE	used	888672304	9.49	1527	0.376	0.873	0.225	0.331	241.046278	-23.051674	-1209.06	-1976.86
6	GUIDE	used	814229280	9.07	1525	0.038	-0.323	0.113	0.174	240.283833	-22.168206	1492.68	1057.92
7	GUIDE	used	814228792	9.40	1525	0.008	0.013	0.147	0.218	240.941877	-22.321038	1326.50	-1194.18

2.4 Star Slots

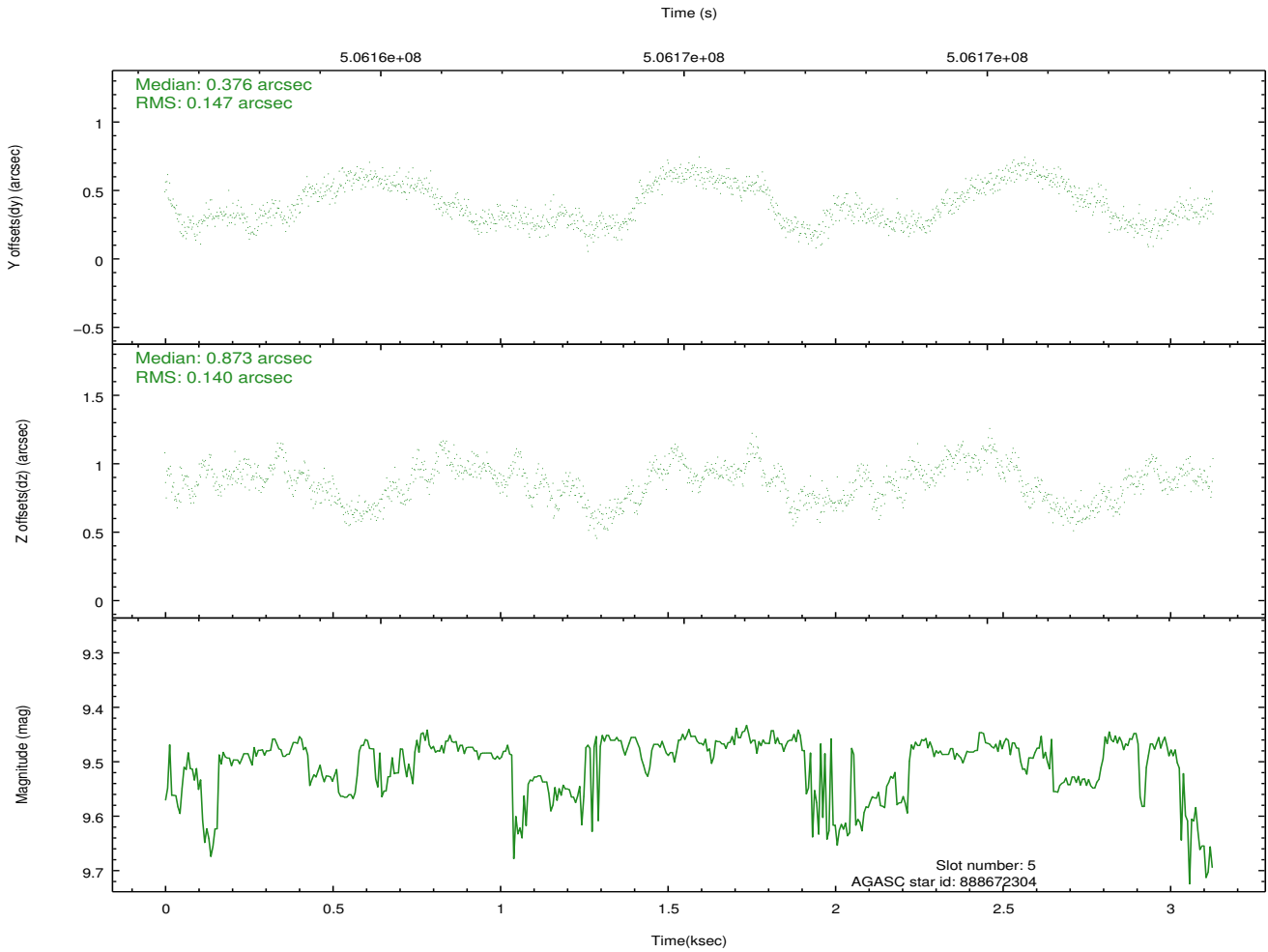
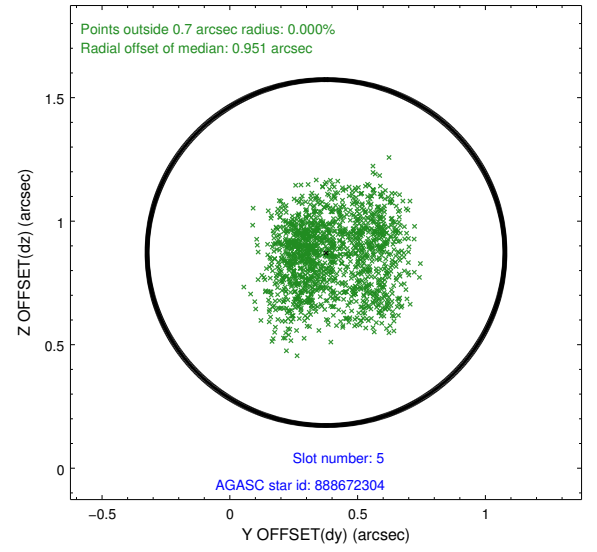
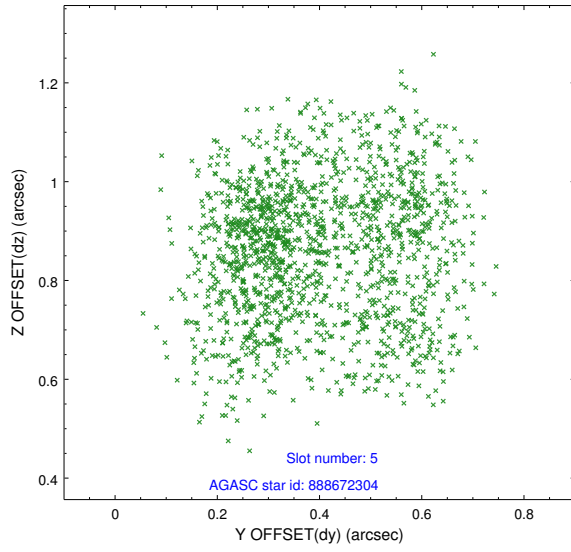
2.4.1 Slot 3



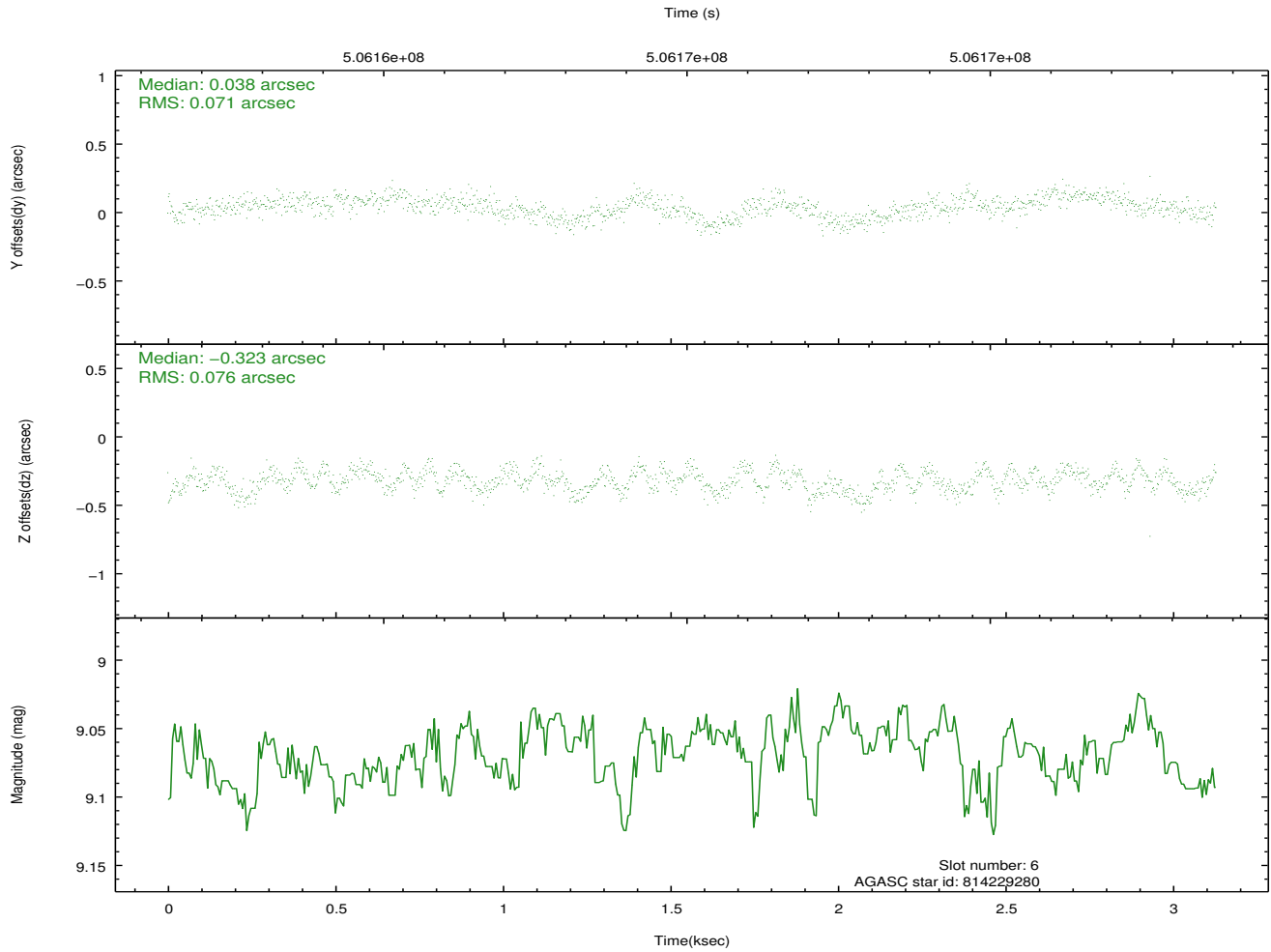
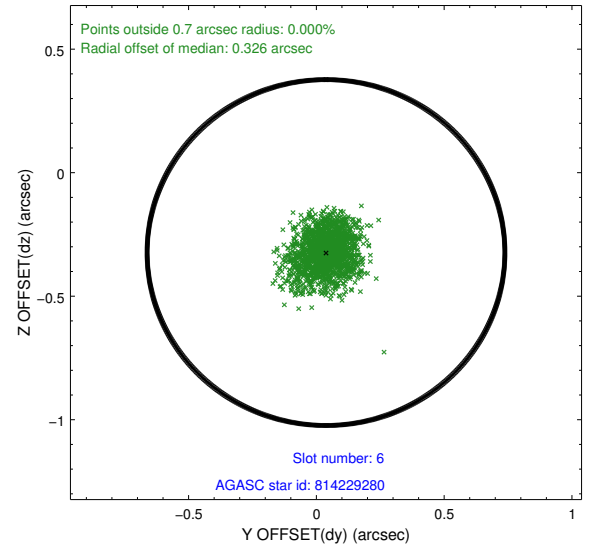
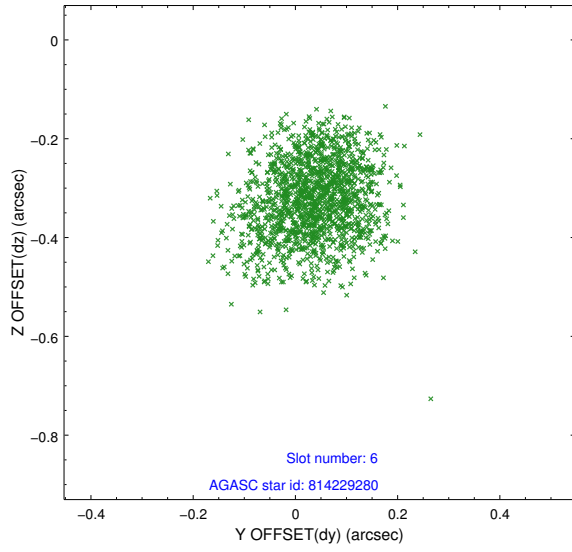
2.4.2 Slot 4



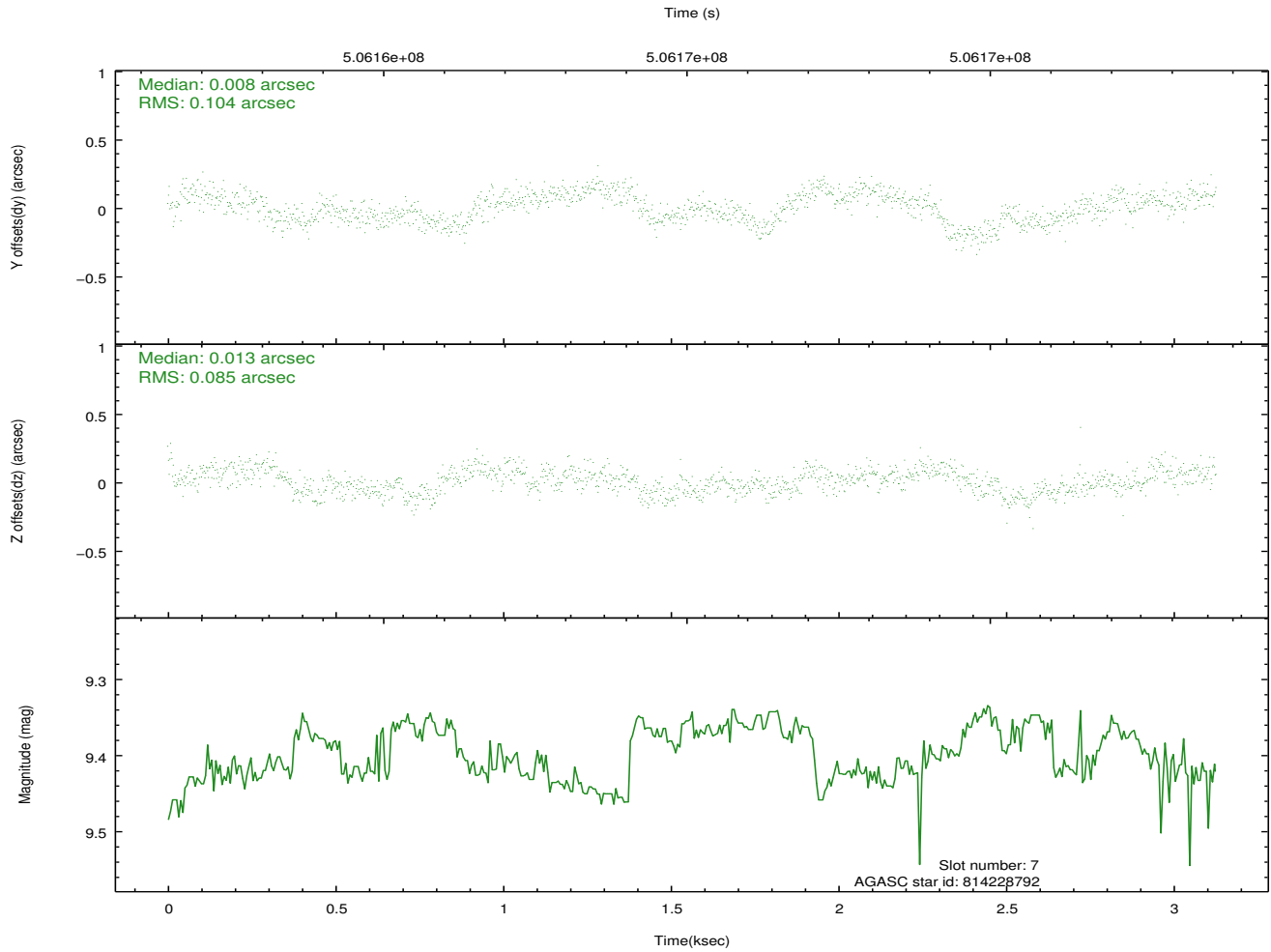
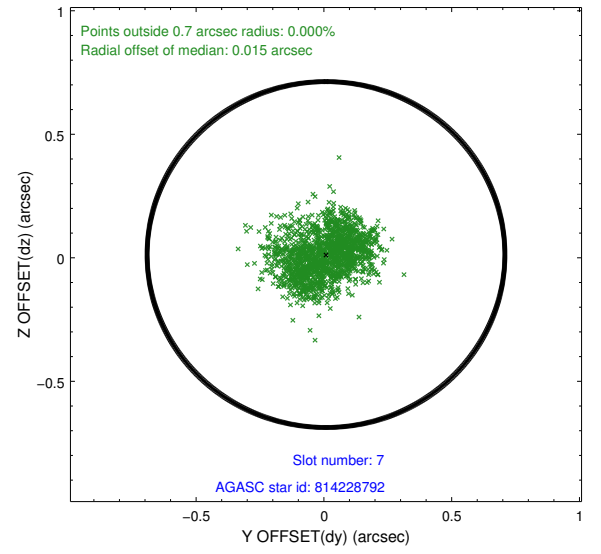
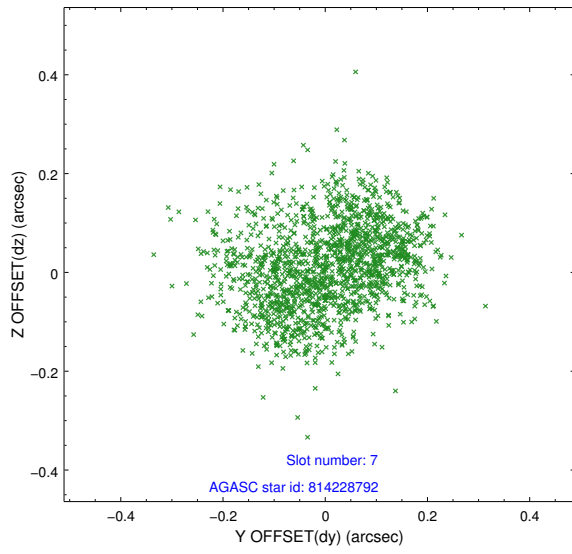
2.4.3 Slot 5



2.4.4 Slot 6

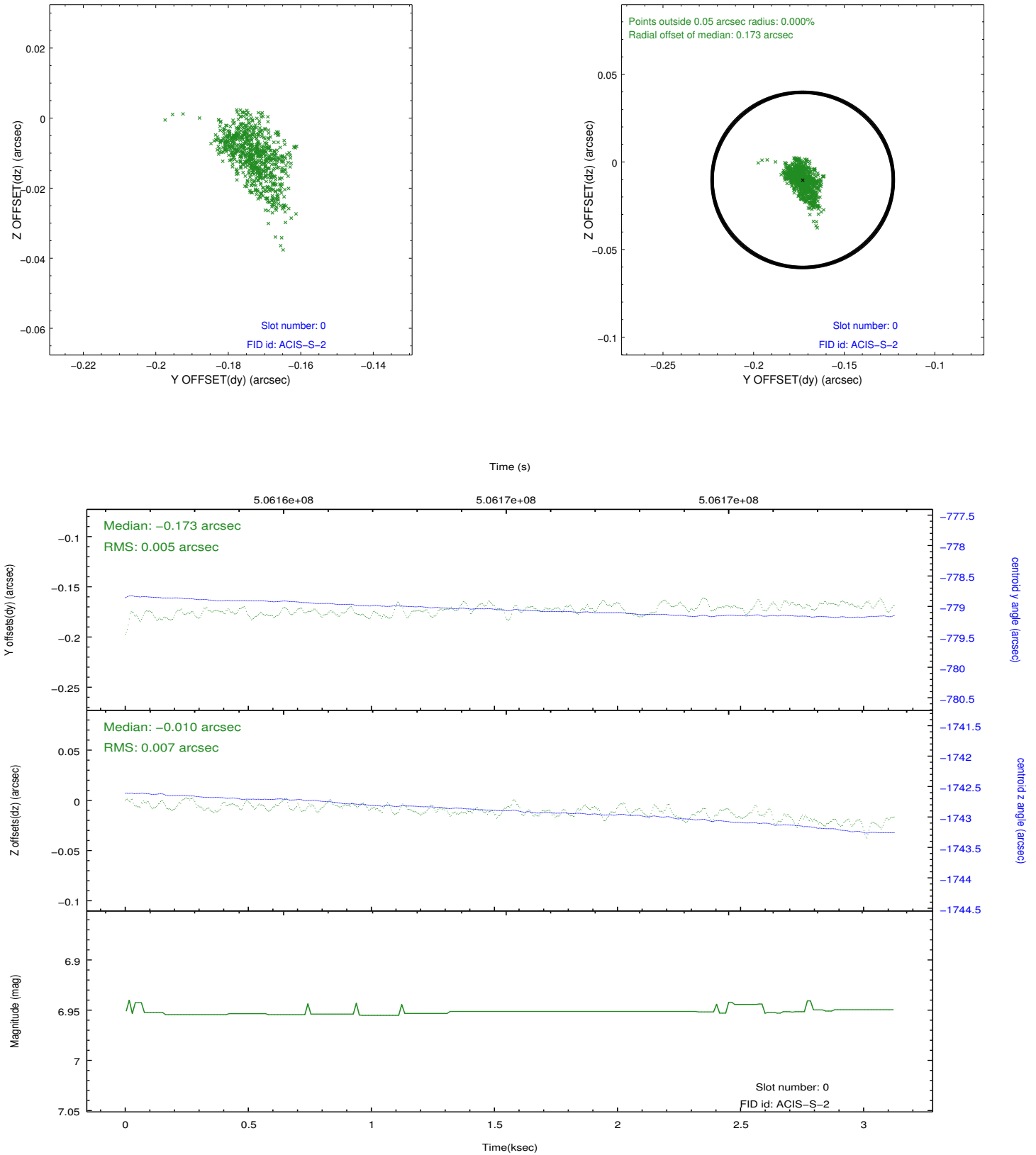


2.4.5 Slot 7

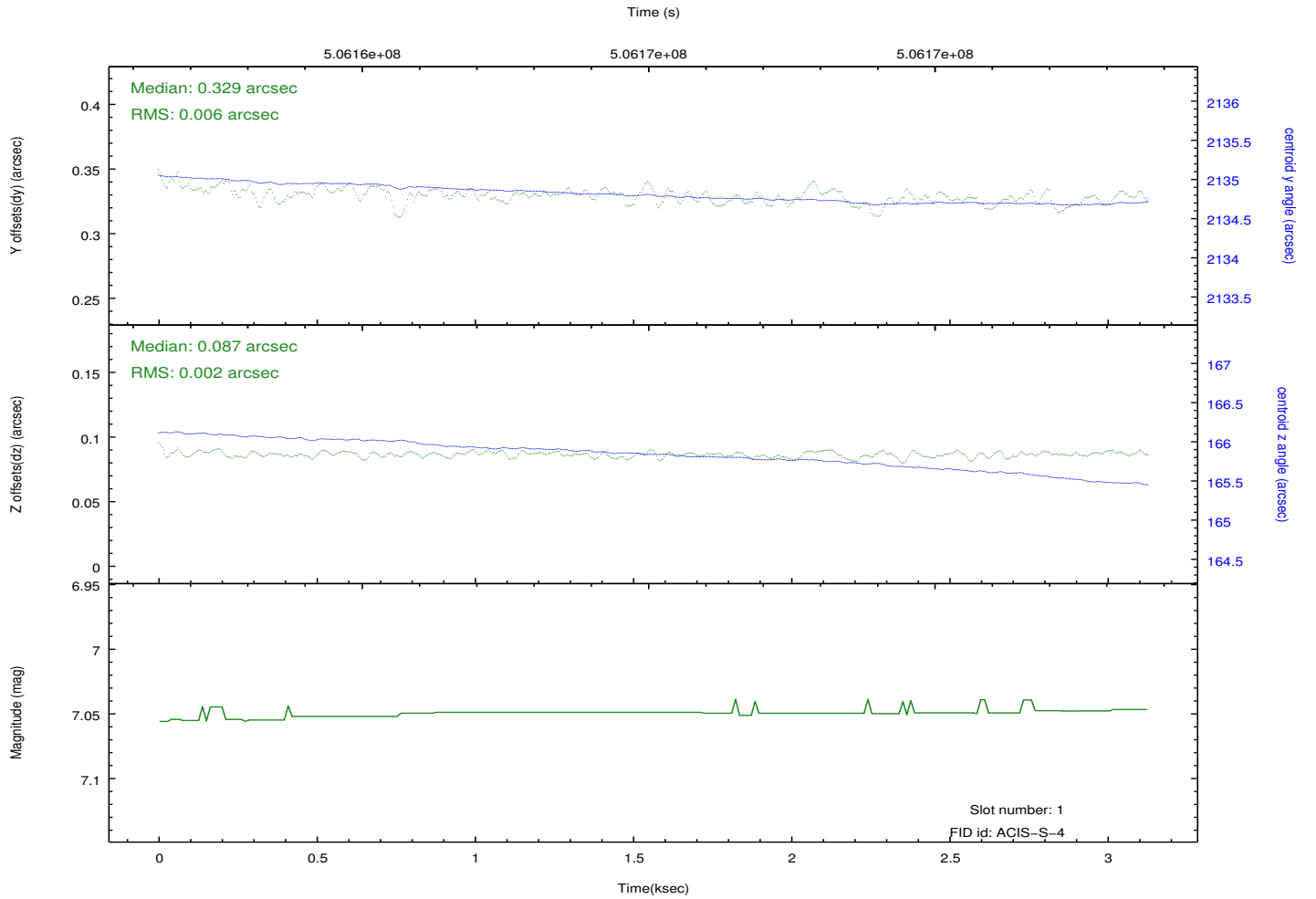
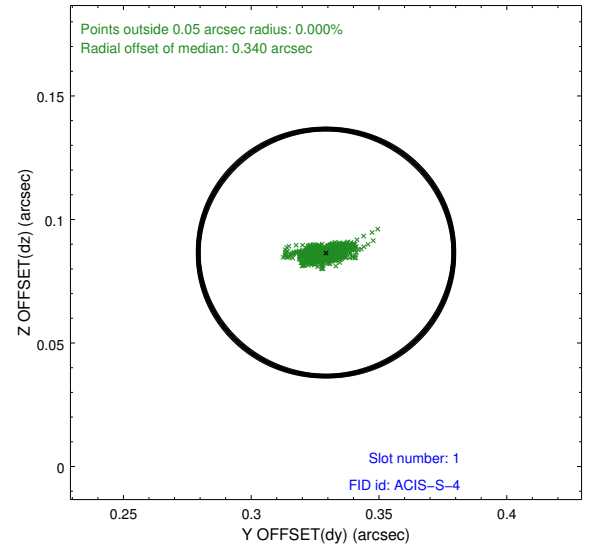
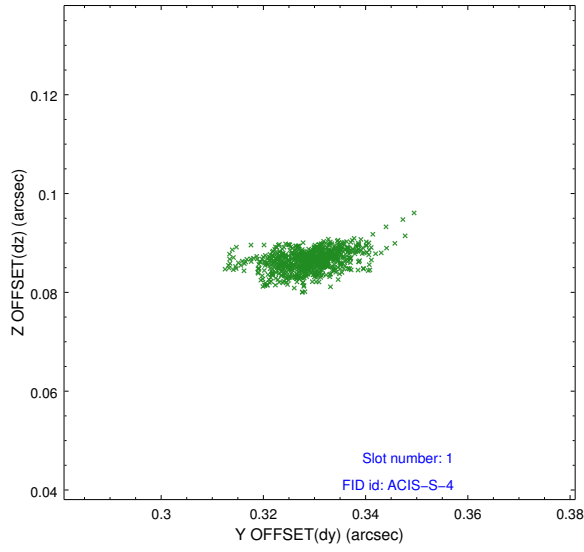


2.5 FID Slots

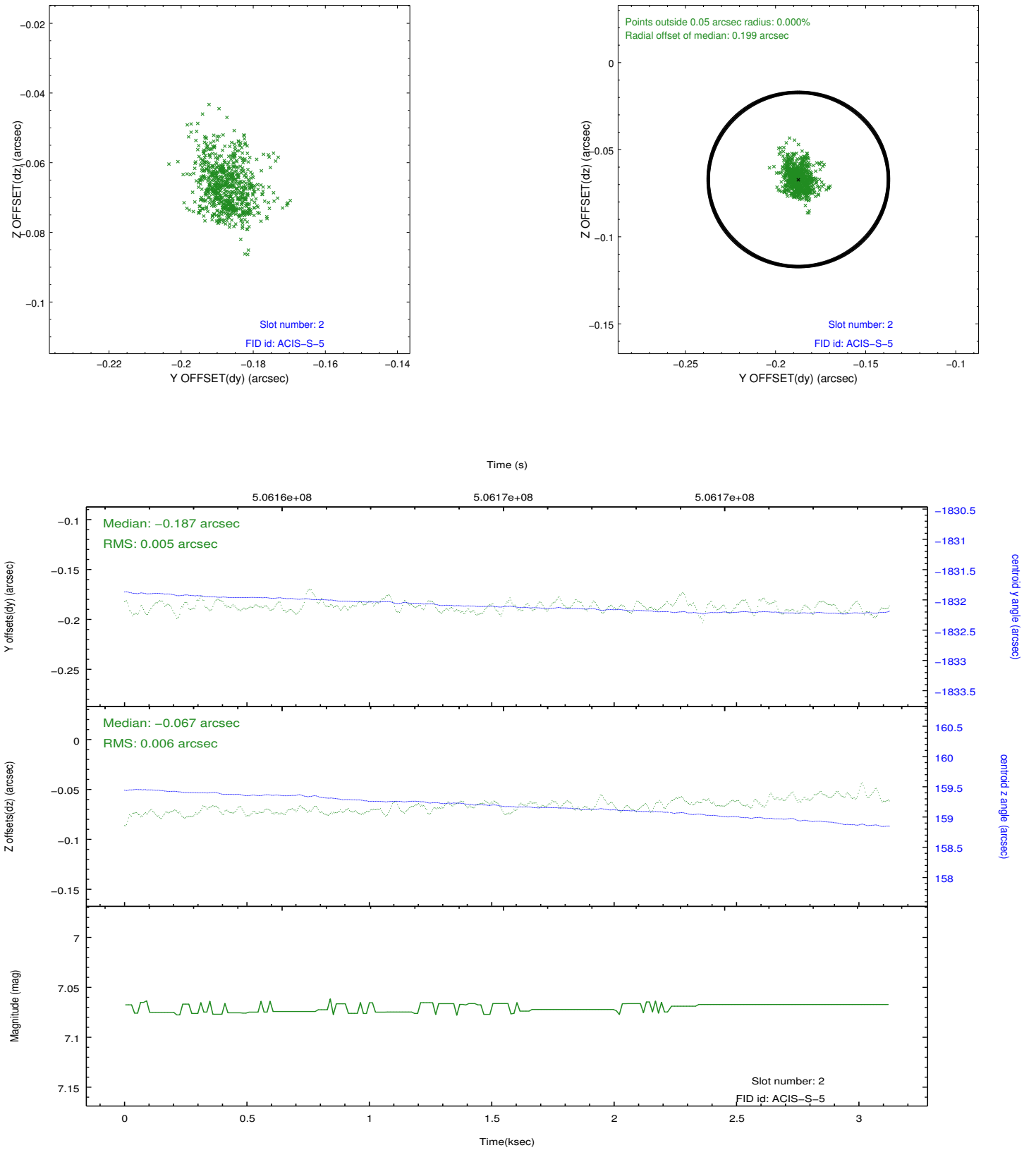
2.5.1 Slot 0



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	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.