

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16337 - L2 Version 2
Chandra X-Ray Center

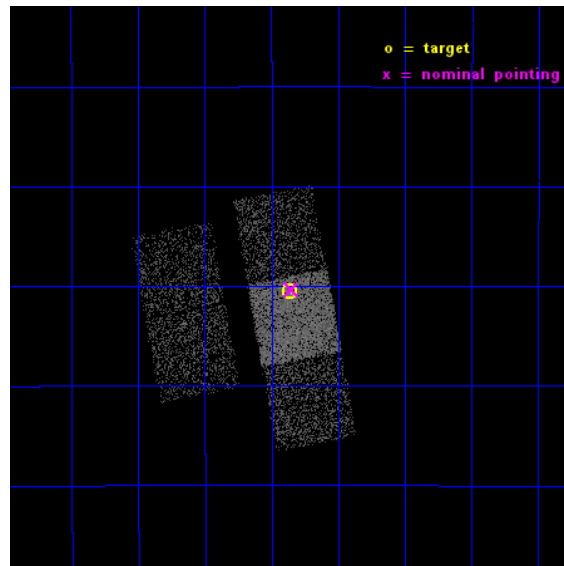
L2 Processing Date : Dec 9 2014

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1 Front

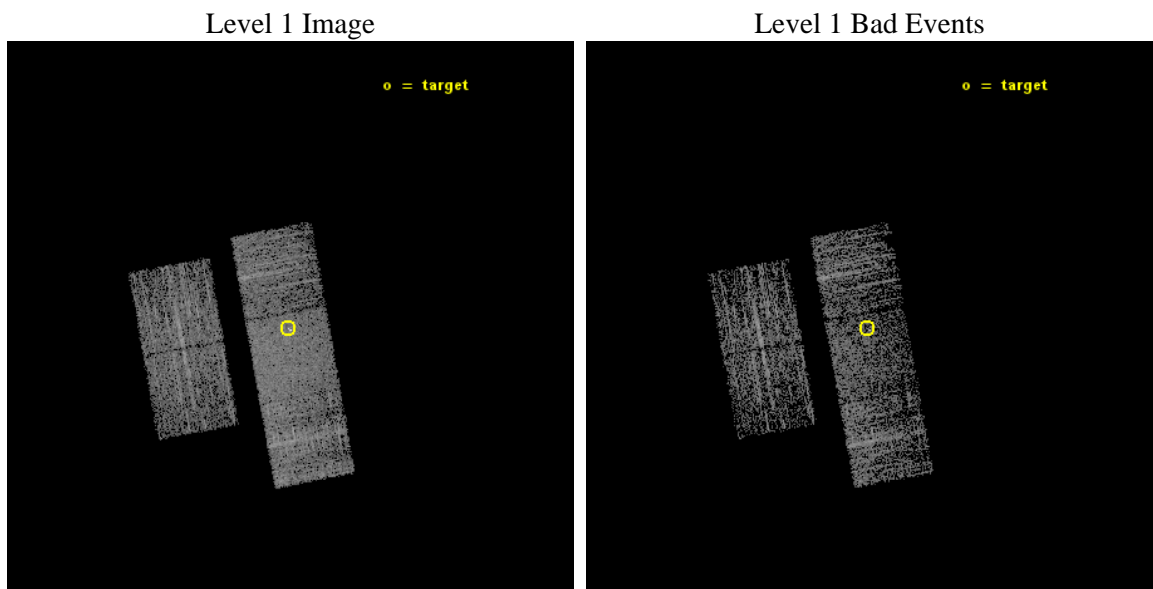
seq_num	200963	Sequence number
obs_id	16337	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16042165-2130284	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.09	Observer's specified target RA [deg]
dec_targ	-21.507889	Observer's specified target Dec [deg]
ra_nom	241.08749582609	Nominal RA [deg]
dec_nom	-21.505653860318	Nominal Dec [deg]
roll_nom	79.58149458405	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3069.0000236034	Sum of GTIs [s]
livetime	3028.9012789301	Livetime [s]
ontime2	3068.8532069325	Sum of GTIs [s]
ontime3	3068.9352869391	Sum of GTIs [s]
ontime6	3068.9763269424	Sum of GTIs [s]
ontime7	3069.0000236034	Sum of GTIs [s]
ontime8	3068.8942469358	Sum of GTIs [s]
l2events	15918	Number of level 2 events



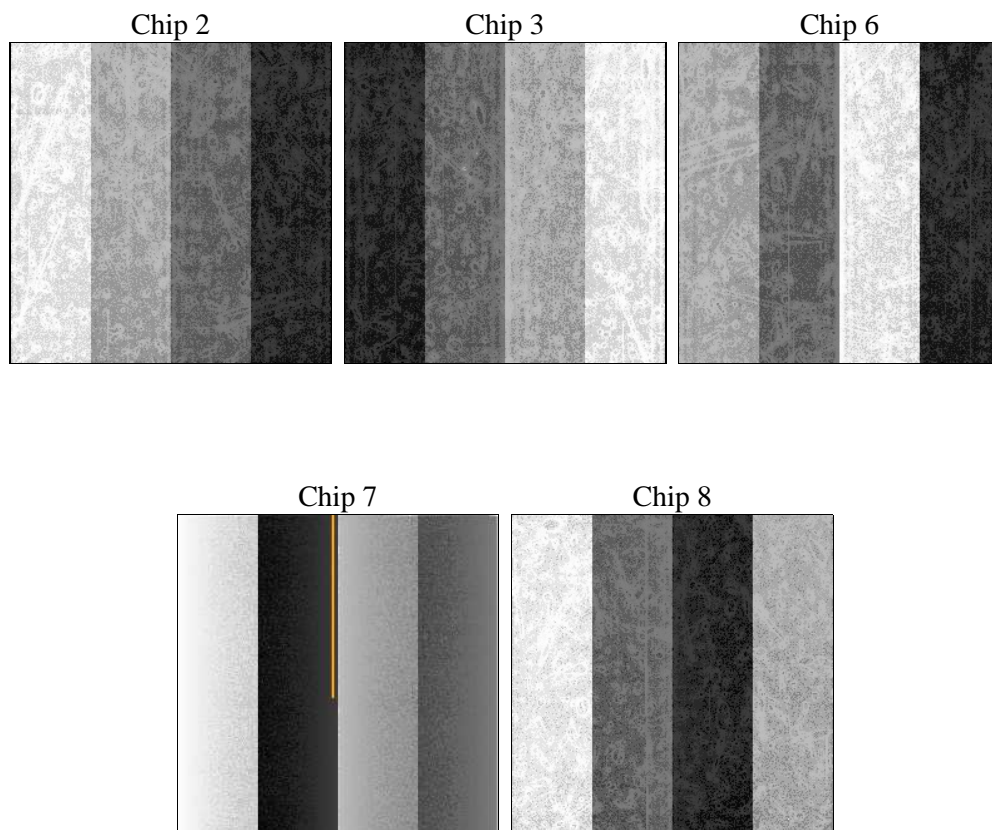
2 OBI

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	3068.8532069325	Sum of GTIs [s]
date	2014-12-09T21:47:11	Date and time of file creation	ontime3	3068.9352869391	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3068.9763269424	Sum of GTIs [s]
			ontime7	3069.0000236034	Sum of GTIs [s]
			ontime8	3068.8942469358	Sum of GTIs [s]
			l1events	83664	Number of level 1 events

2.1.4 Events

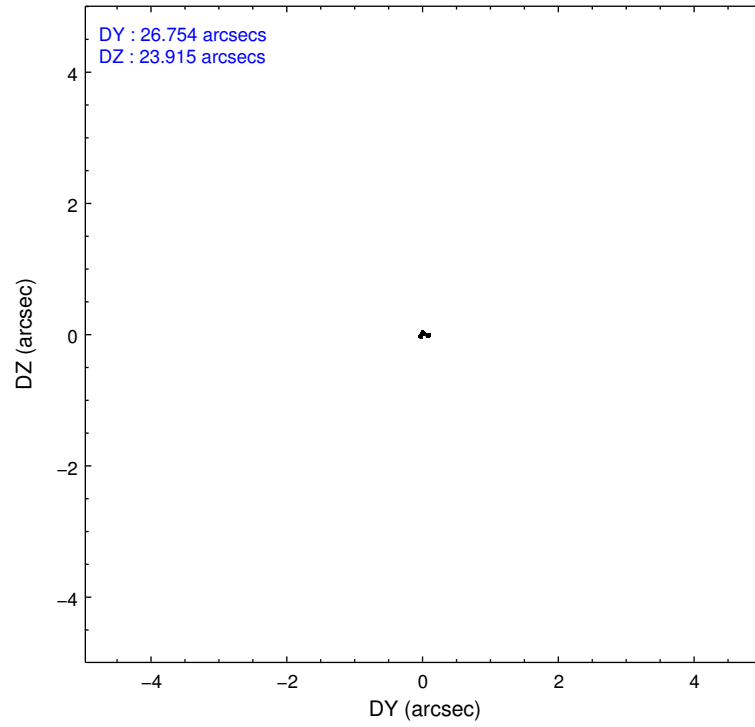
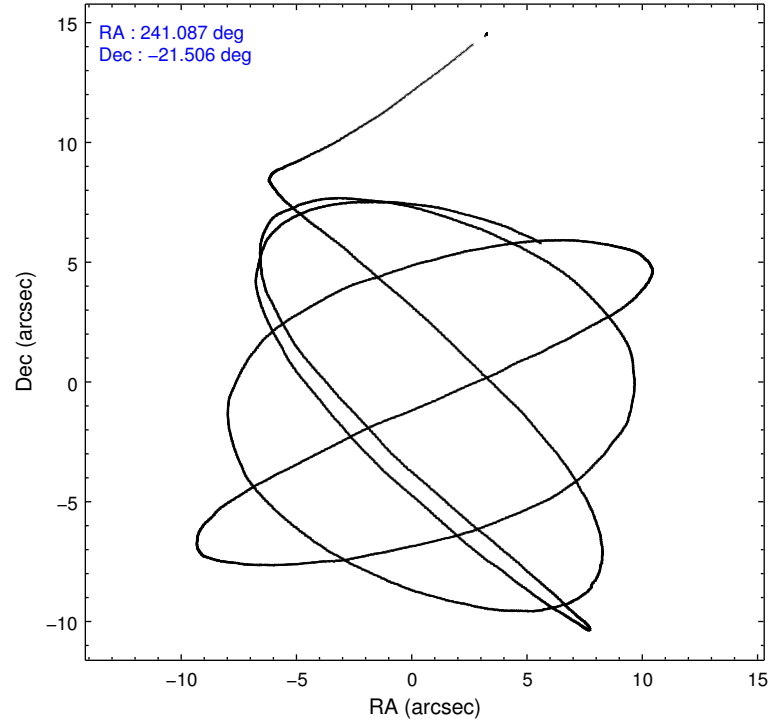
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	15188	13209	14463	21234	19570
rejected events	13510	11502	12617	11553	14207
rejected %	88%	87%	87%	54%	72%

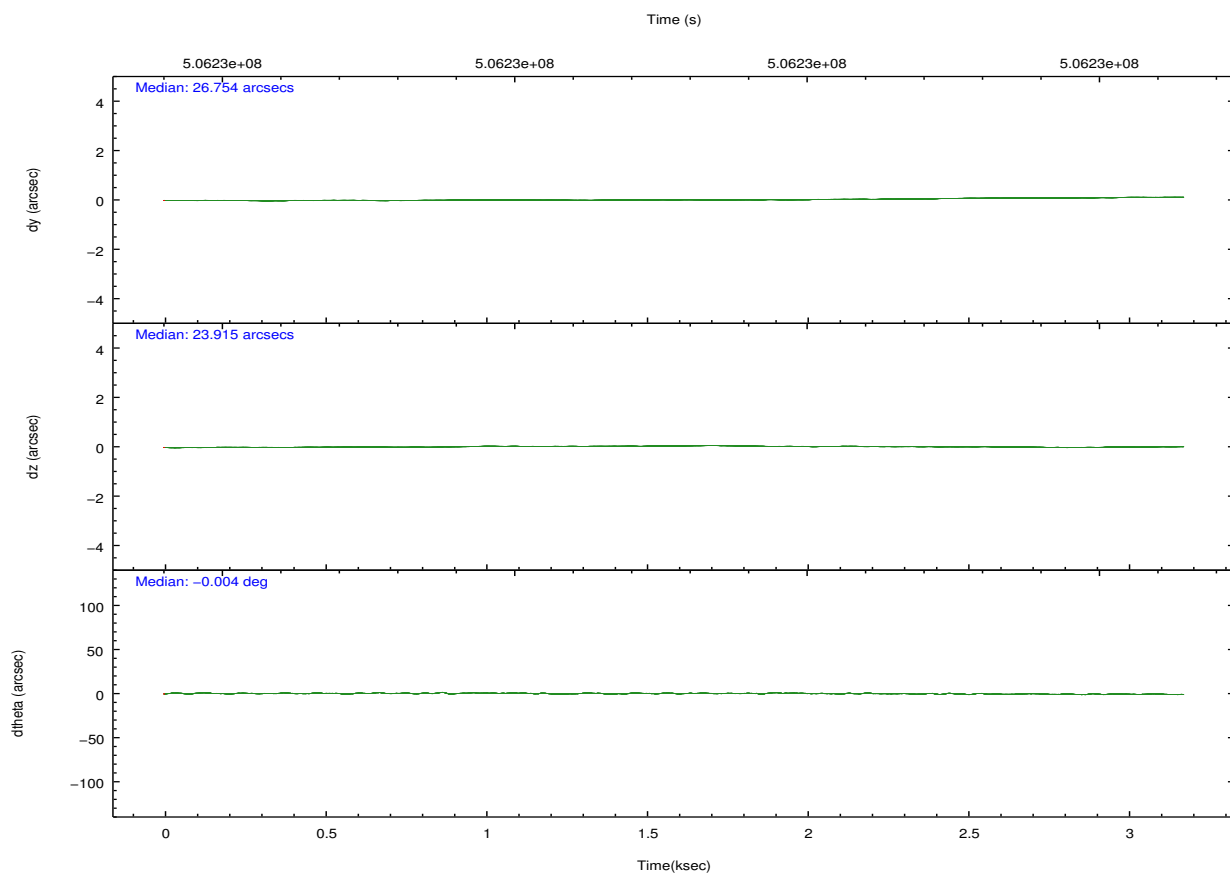
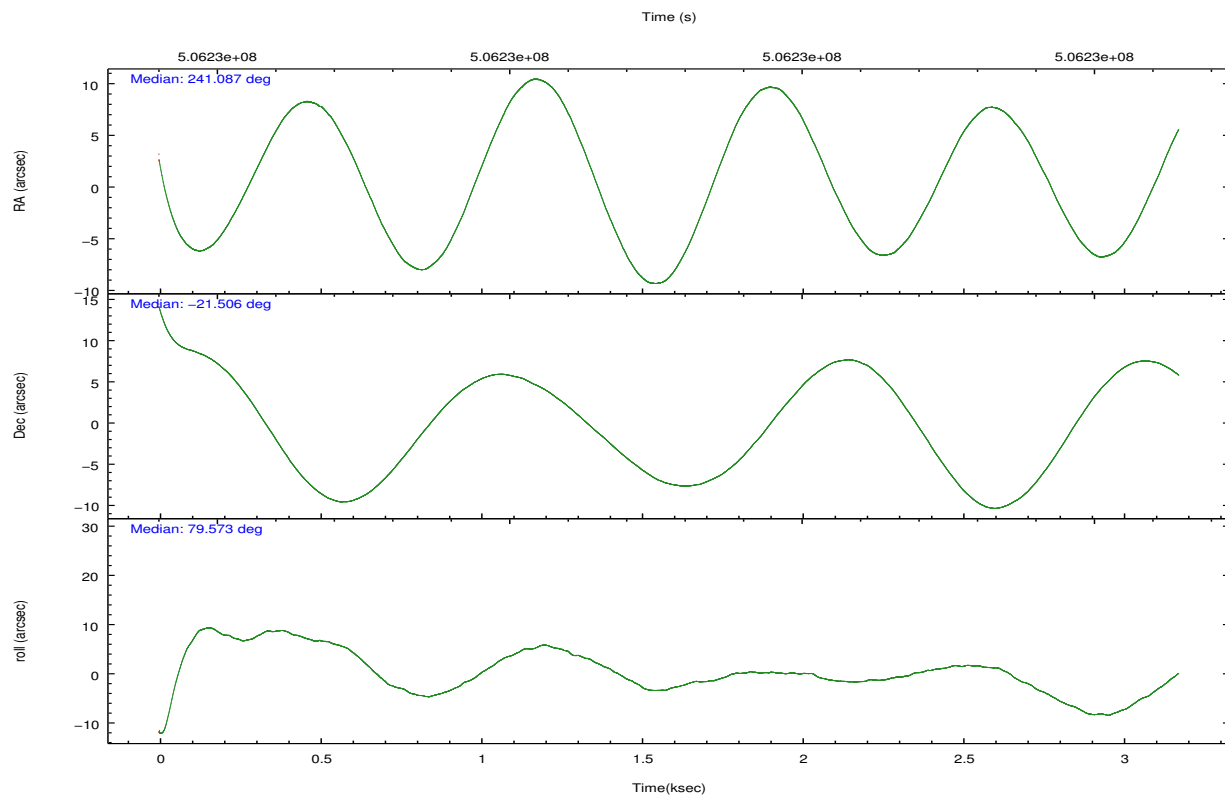
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	604	609	647	994	1744
	3%	4%	4%	4%	8%
grade 1 events	10	9	3	34	22
	0%	0%	0%	0%	0%
grade 2 events	412	380	392	2001	1223
	2%	2%	2%	9%	6%
grade 3 events	171	182	183	821	525
	1%	1%	1%	3%	2%
grade 4 events	173	171	181	851	517
	1%	1%	1%	4%	2%
grade 5 events	593	773	775	2028	1150
	3%	5%	5%	9%	5%
grade 6 events	319	369	448	5033	1365
	2%	2%	3%	23%	6%
grade 7 events	12906	10716	11834	9472	13024
	84%	81%	81%	44%	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	241.097852	241.0874958260945	Subarray requested	NONE	NONE
[deg] Pointing Dec	-21.531462	-21.50565386031754	Alternating exposures requested	N	N
[deg] Pointing Roll	79.428767	79.58149458405018	[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)	506229129.184000	506228183.85329			
Observation start date	2014-01-16T03:11:02	2014-01-16T02:56:23			
[s] Observation end time (MET)	506232129.184000	506233082.32855			
Observation end date	2014-01-16T04:01:02	2014-01-16T04:18:02			
Read mode	TIMED	TIMED			

2.3 Aspect



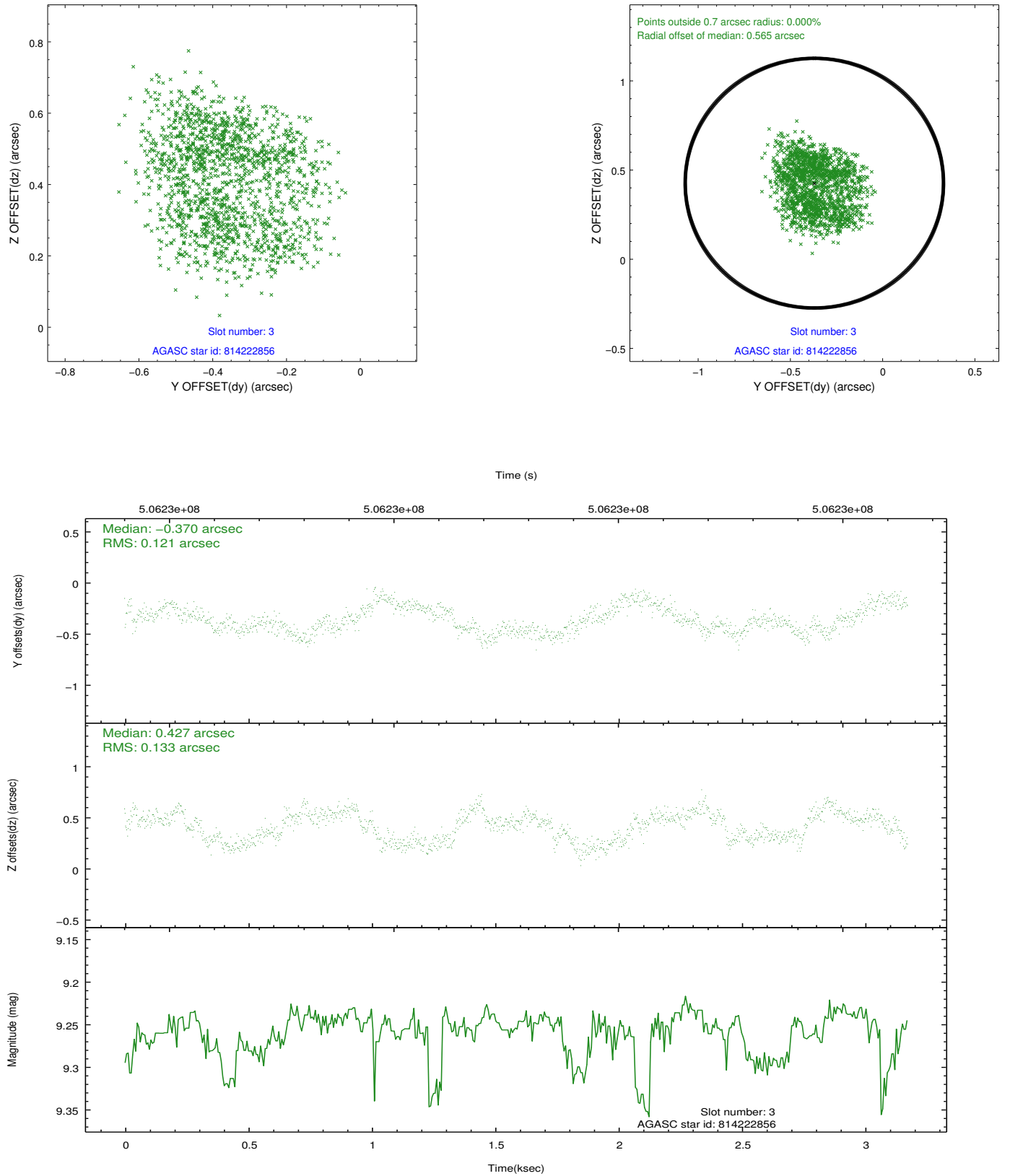


Slot Statistics

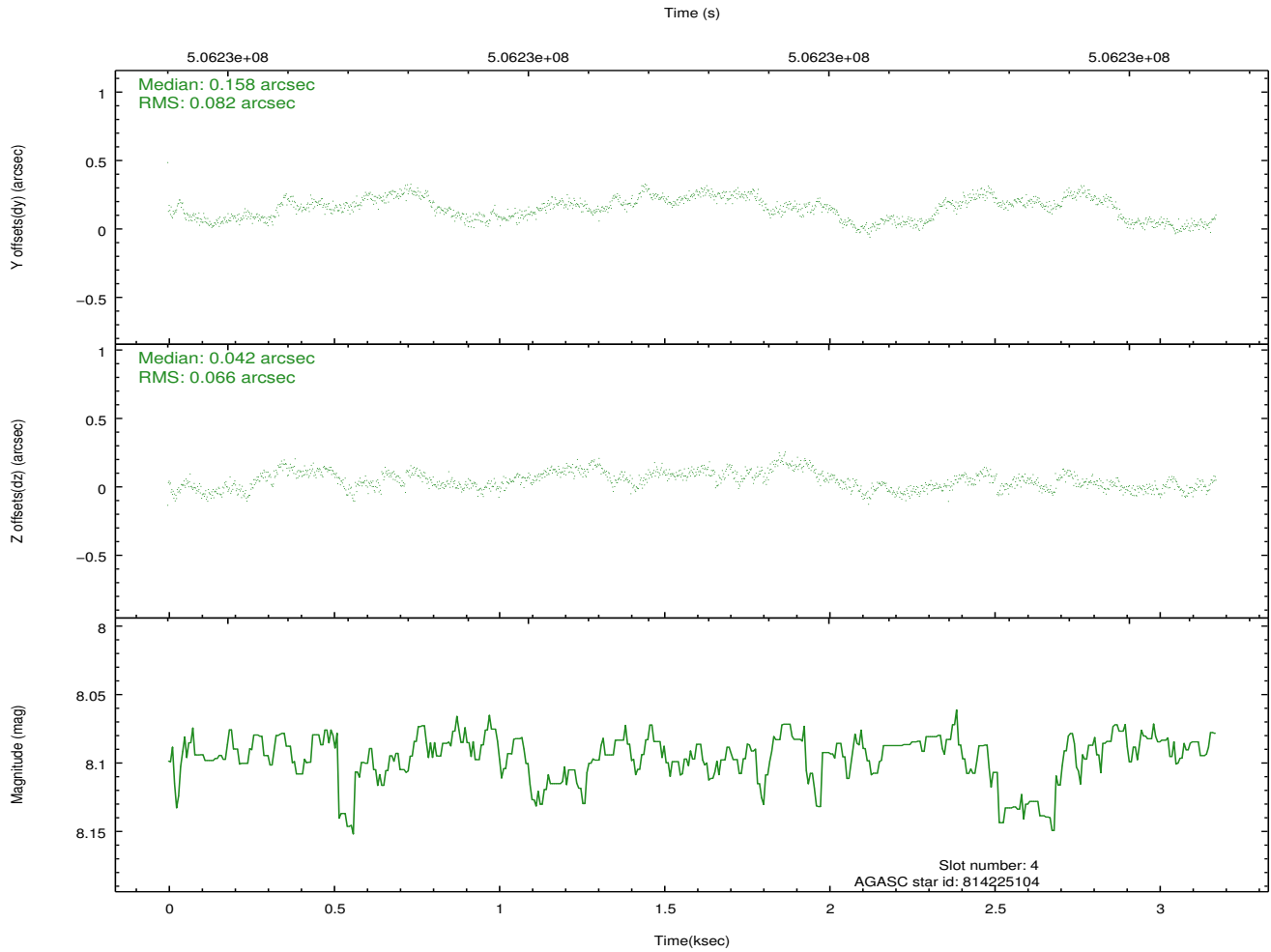
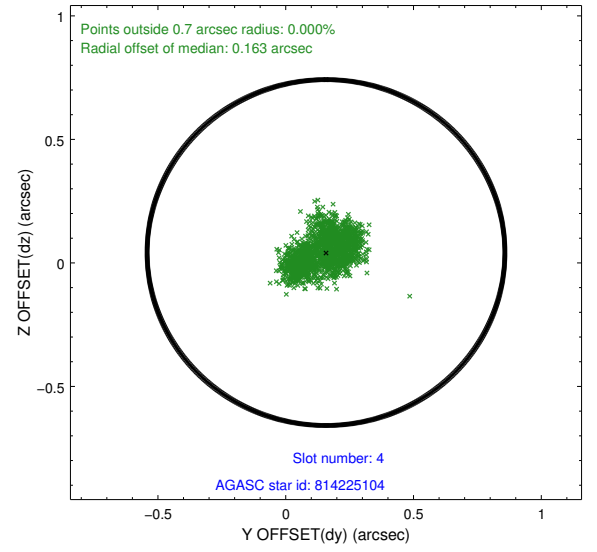
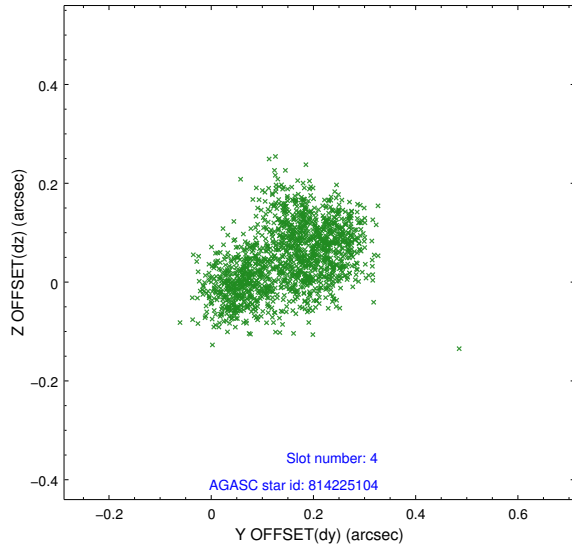
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	775	-0.157	-0.018	0.007	0.012	0.000000	0.000000	-780.21	-1745.50
1	FID		ACIS-S-4	7.02	775	0.300	0.080	0.006	0.011	0.000000	0.000000	2132.58	161.00
2	FID		ACIS-S-5	7.06	774	-0.174	-0.054	0.007	0.011	0.000000	0.000000	-1830.52	156.80
3	GUIDE	used	814222856	9.26	1548	-0.370	0.427	0.197	0.290	241.745683	-21.296052	1226.73	-1981.04
4	GUIDE	used	814225104	8.09	1549	0.158	0.042	0.115	0.165	241.714314	-21.863835	-801.41	-2246.75
5	GUIDE	used	814226576	8.14	1548	0.242	0.372	0.147	0.210	241.430803	-21.838805	-885.42	-1298.51
6	GUIDE	used	814219704	9.28	1549	-0.209	-0.364	0.113	0.187	240.524130	-20.755558	2387.08	2408.66
7	GUIDE	used	814226856	9.62	1547	0.169	-0.445	0.189	0.301	240.335840	-21.826490	-1516.32	2307.85

2.4 Star Slots

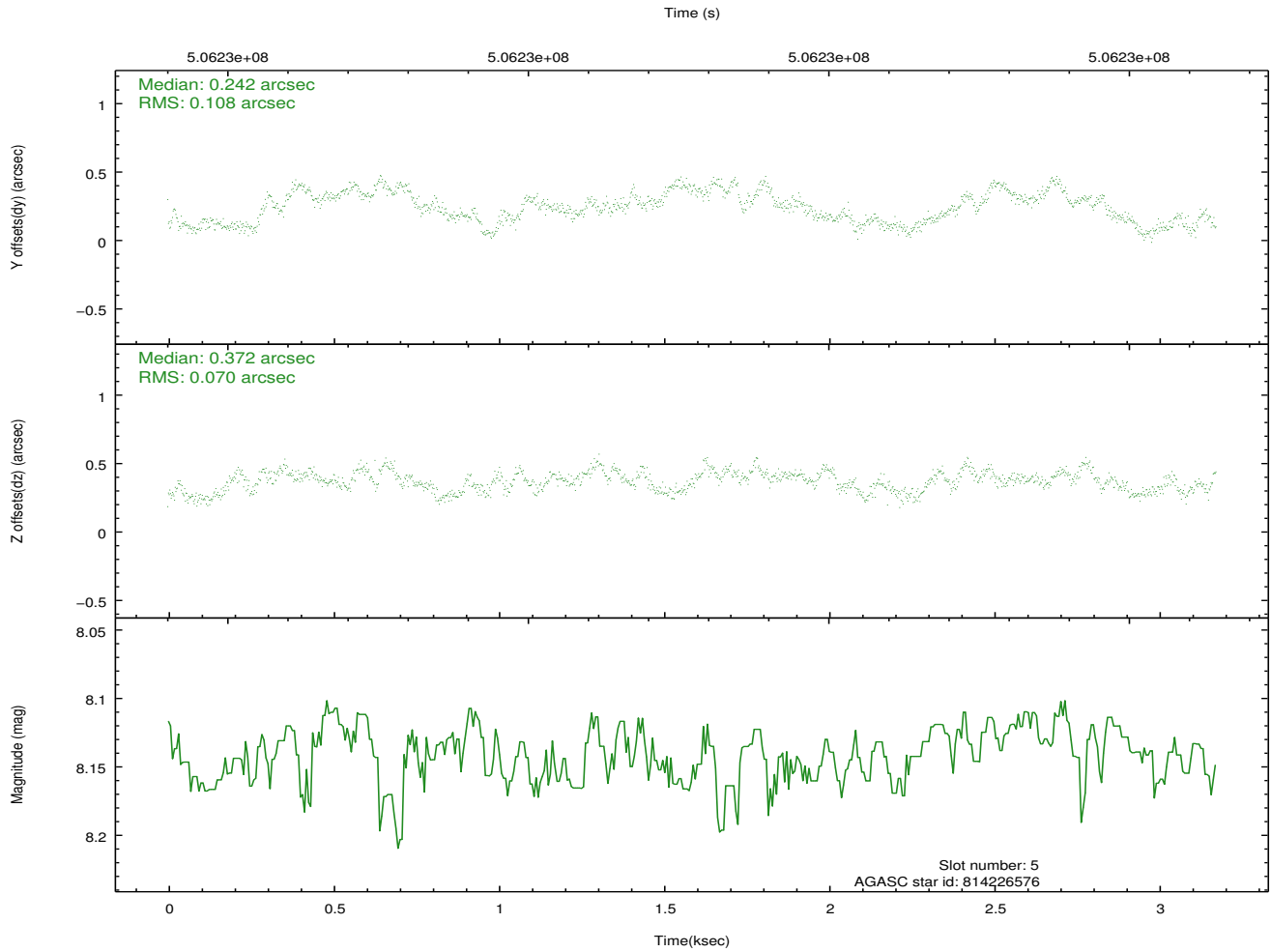
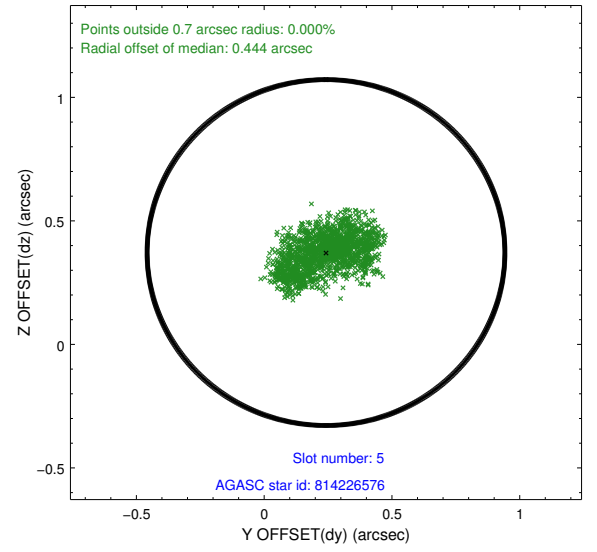
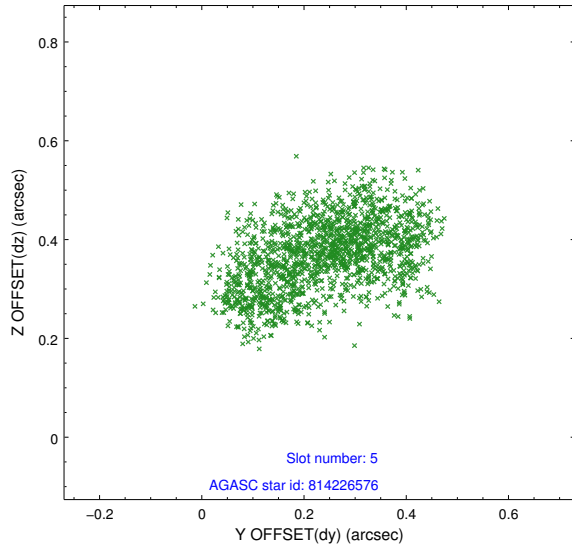
2.4.1 Slot 3



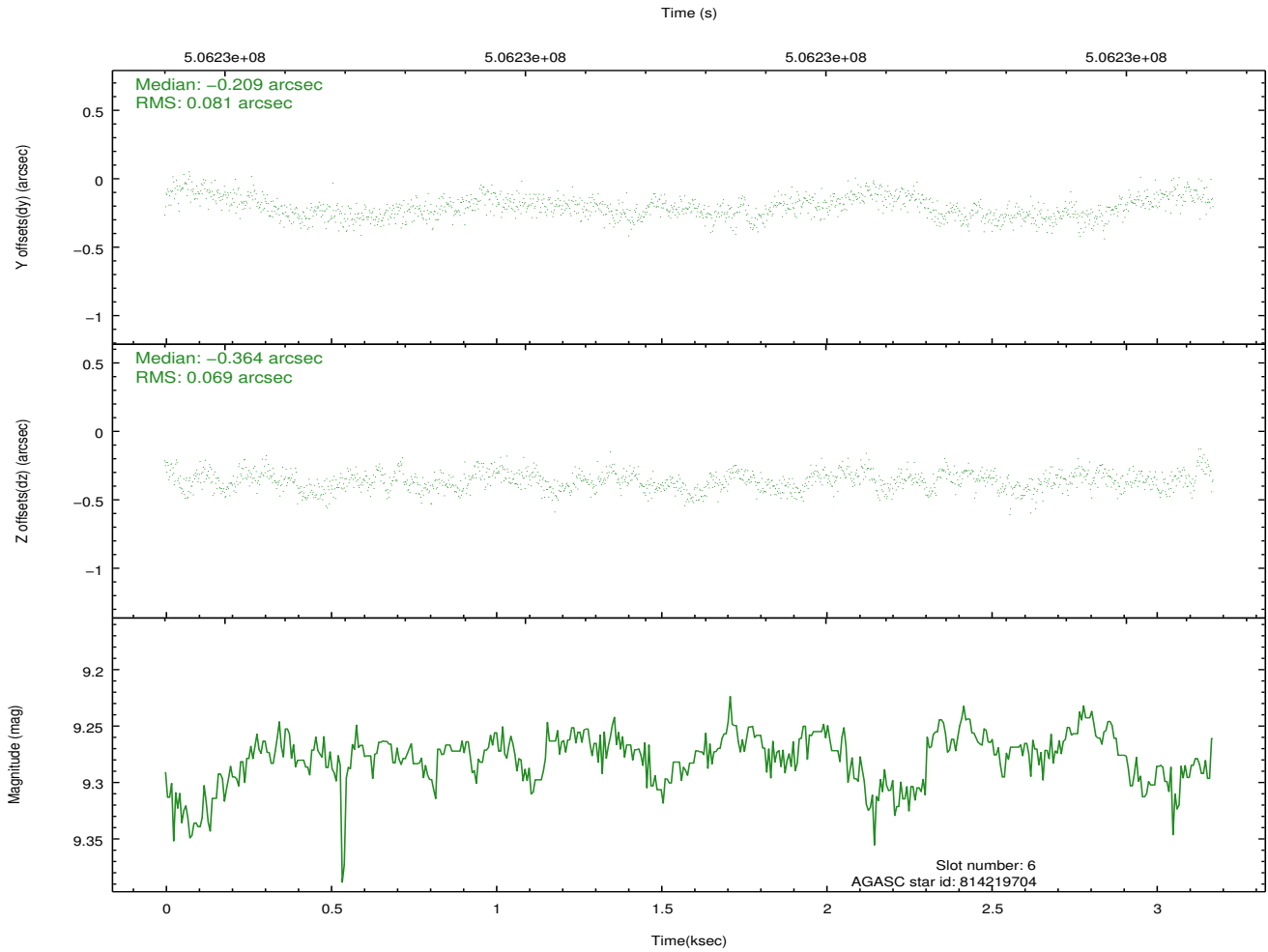
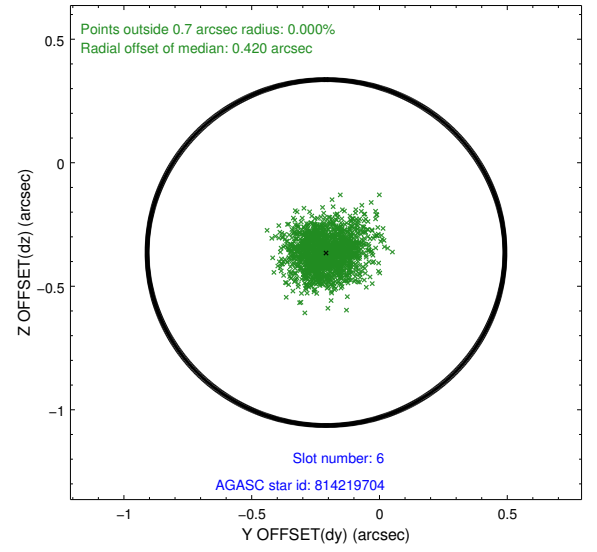
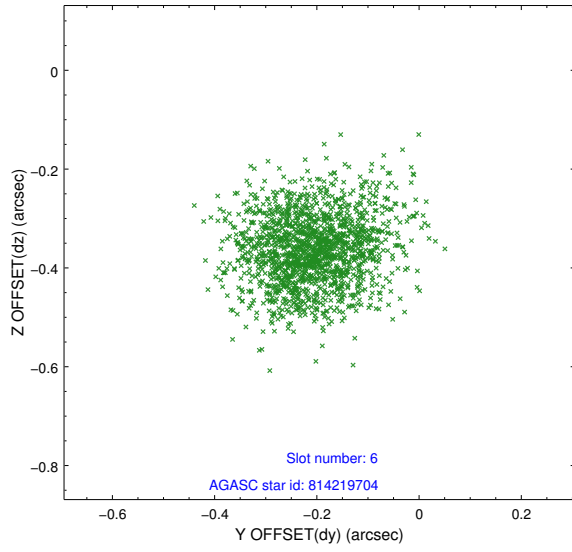
2.4.2 Slot 4



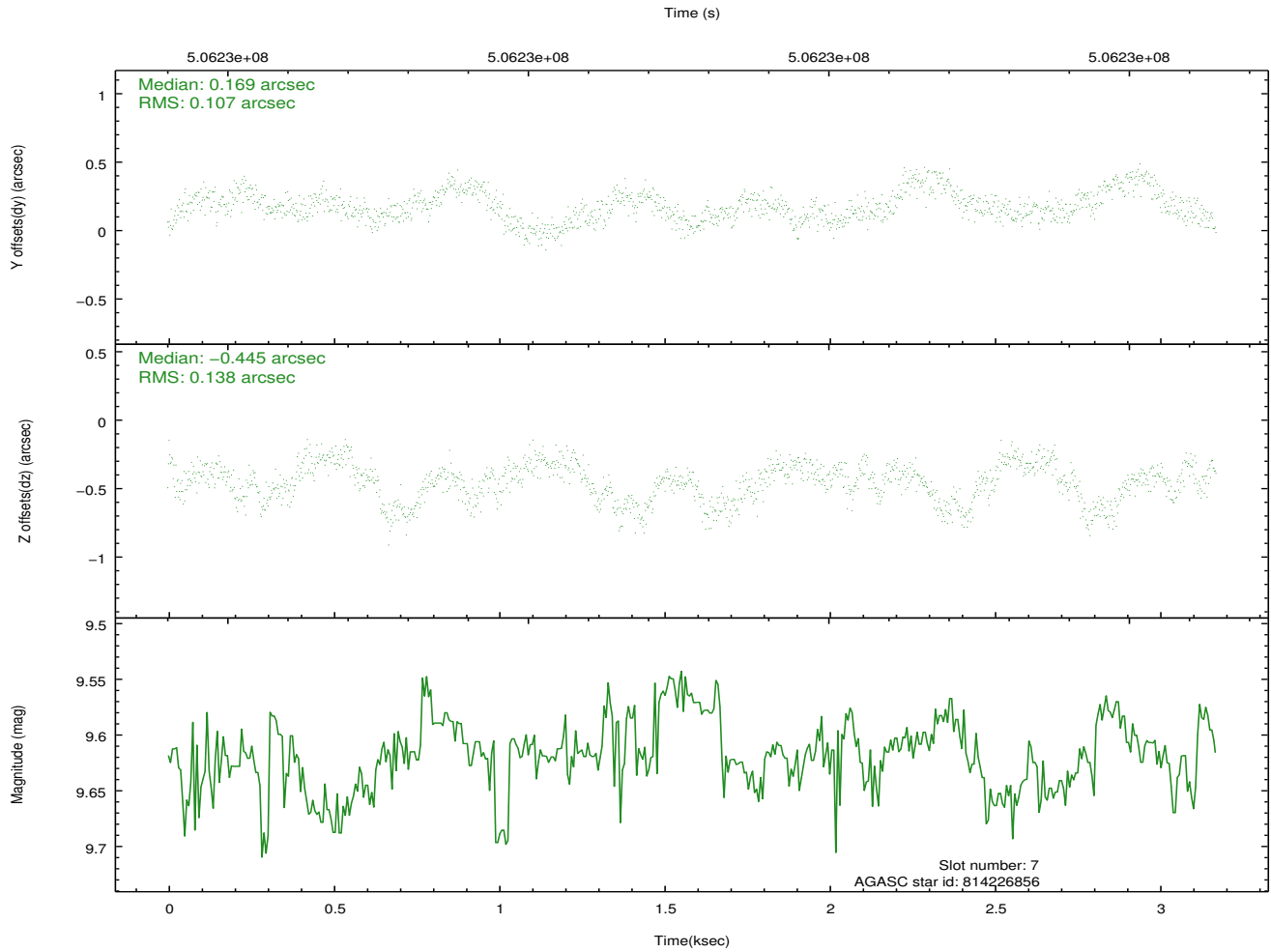
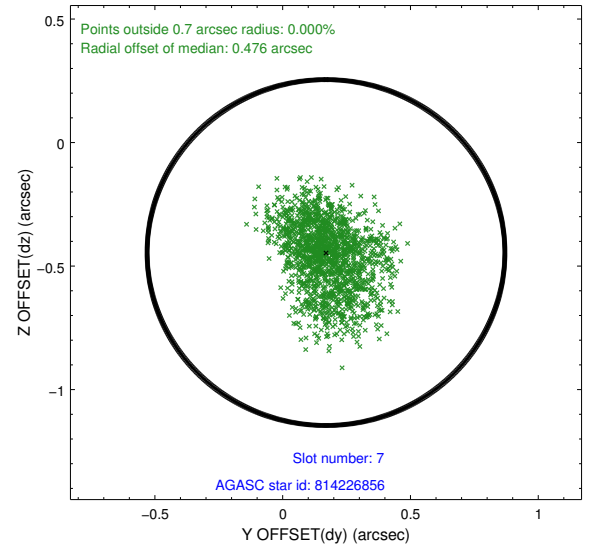
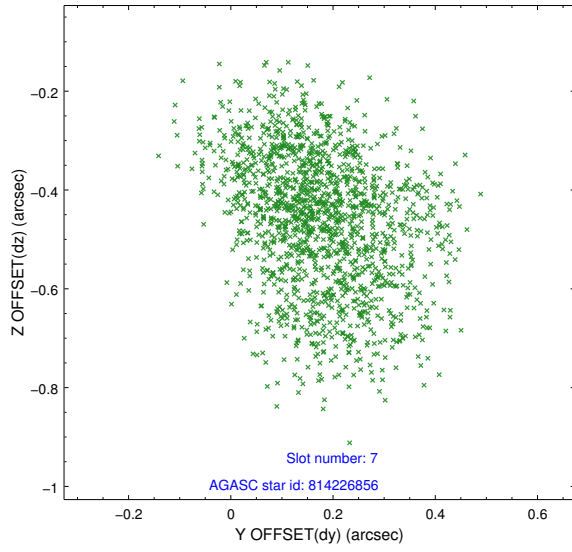
2.4.3 Slot 5



2.4.4 Slot 6

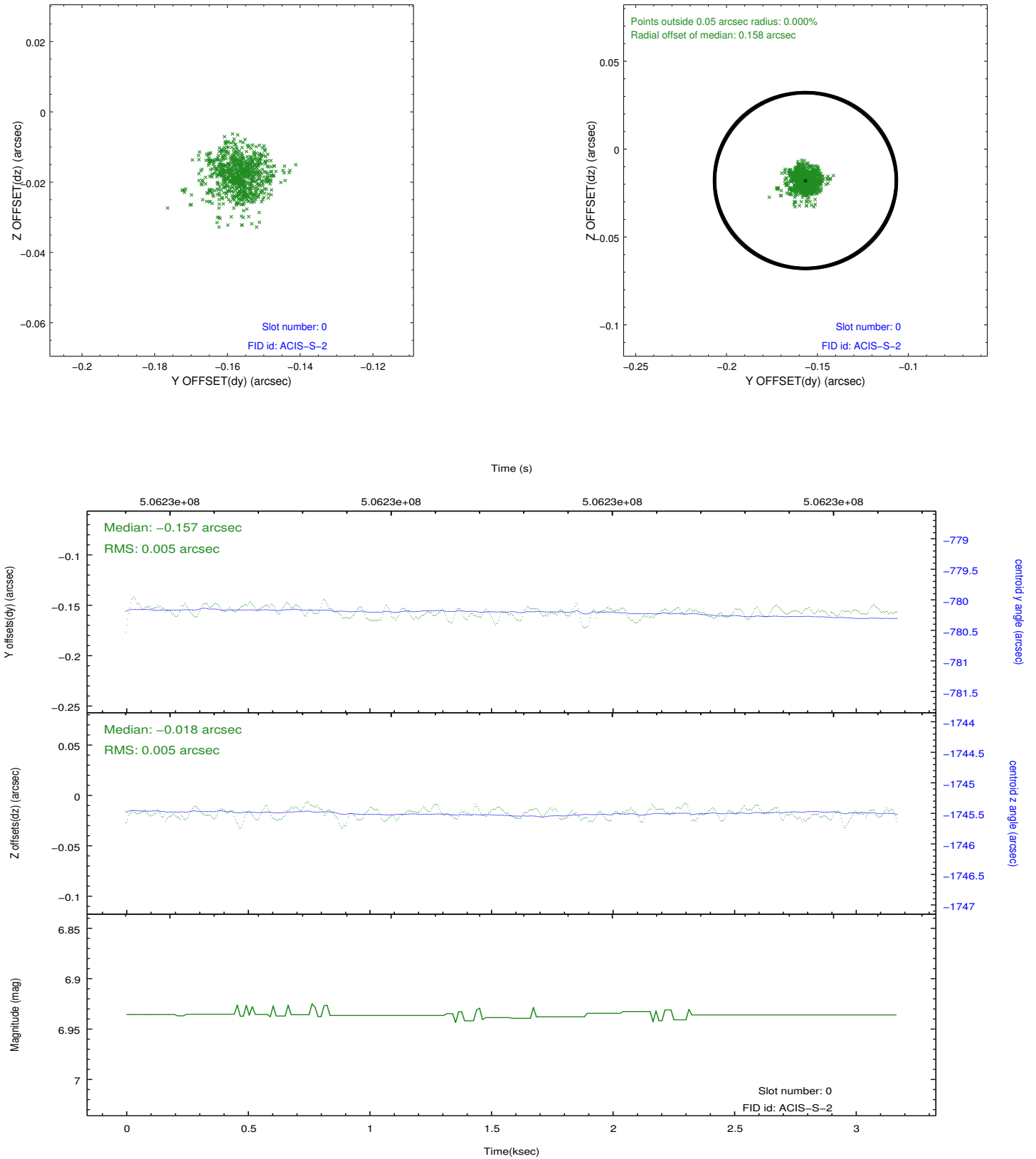


2.4.5 Slot 7

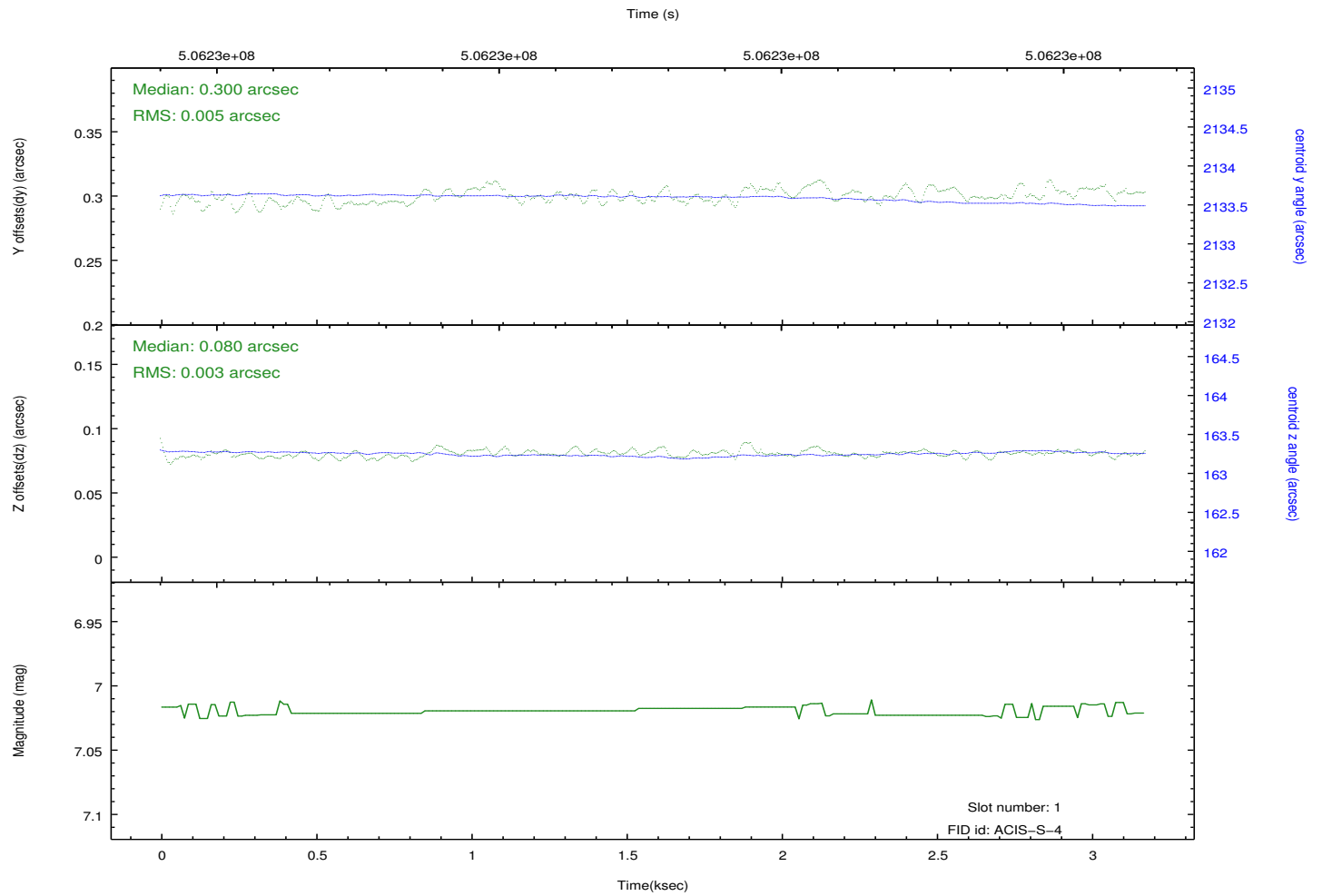
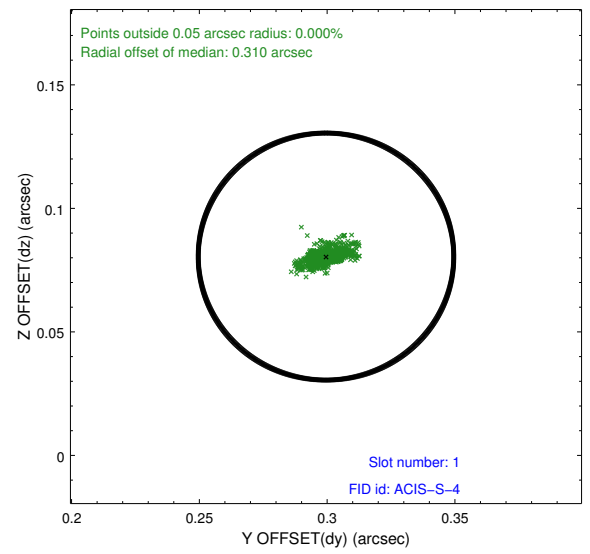
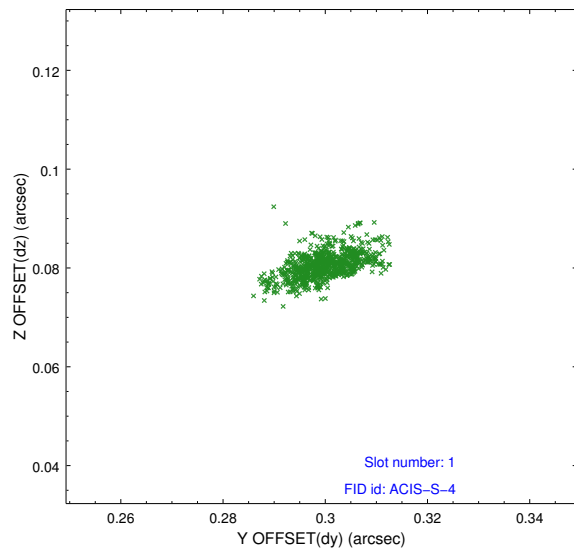


2.5 FID Slots

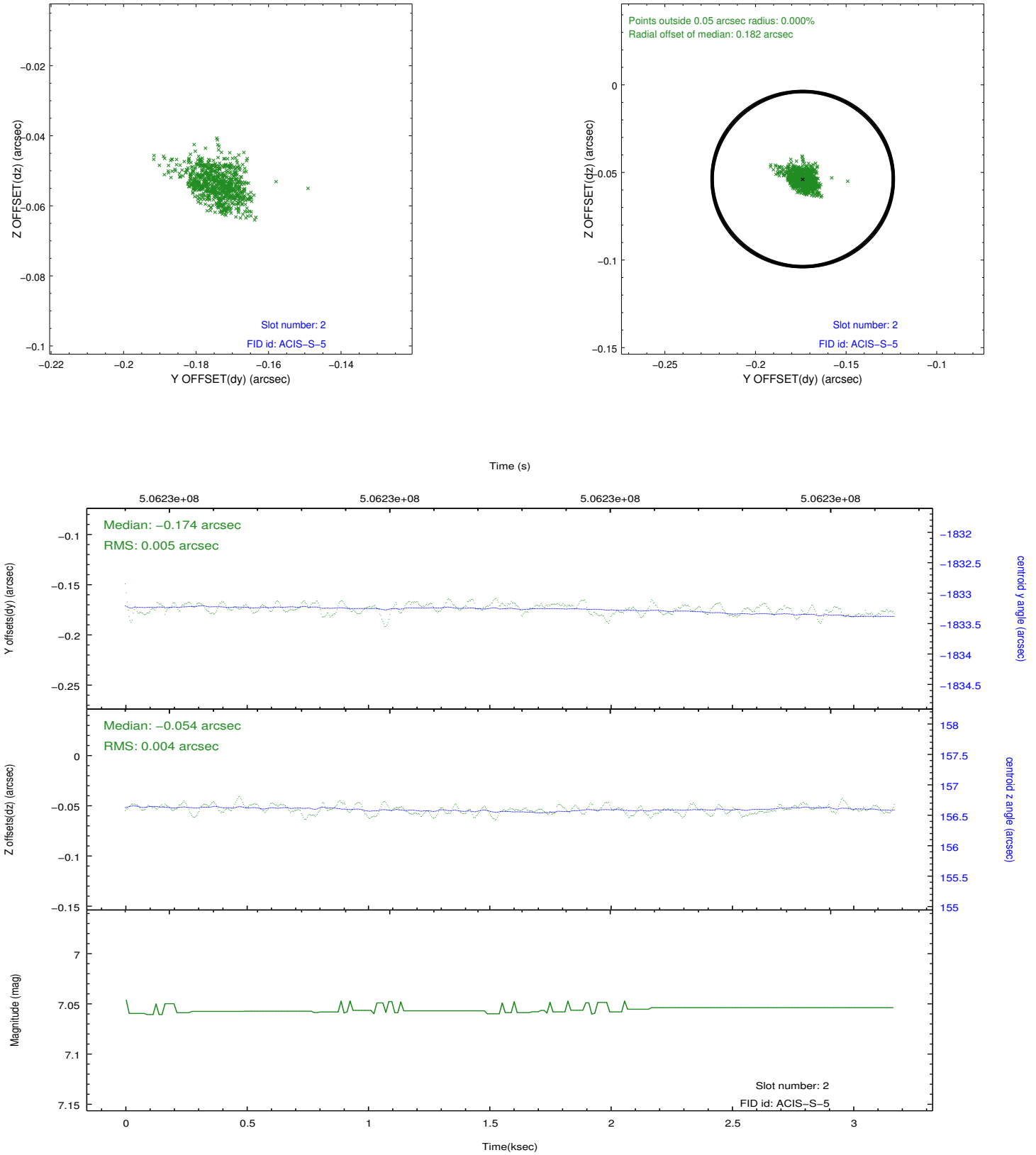
2.5.1 Slot 0



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.