

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16336 - L2 Version 2
Chandra X-Ray Center

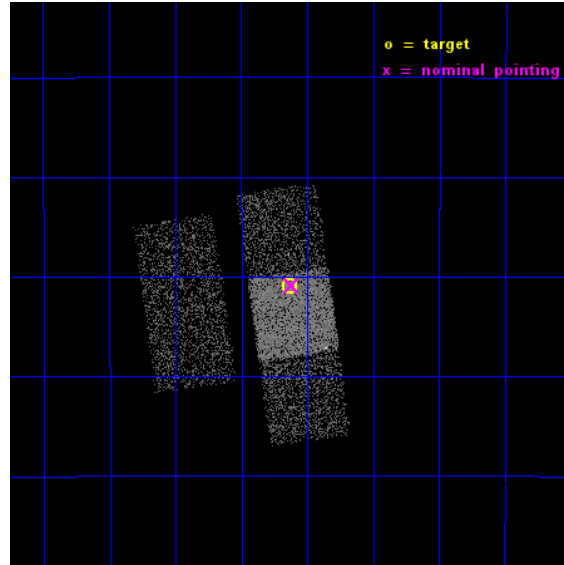
L2 Processing Date : Dec 9 2014

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1 Front

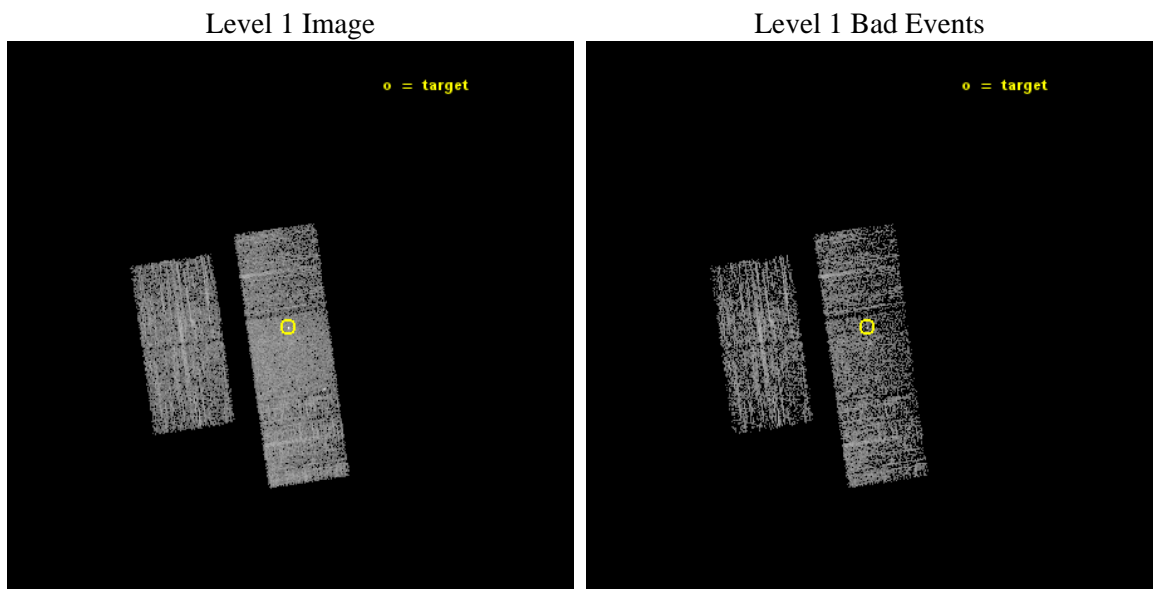
seq_num	200962	Sequence number
obs_id	16336	Observation id
title	X-rays and Disks around Upper Sco Stars	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	US 16230783-2300596	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	245.7825	Observer's specified target RA [deg]
dec_targ	-23.016556	Observer's specified target Dec [deg]
ra_nom	245.78004722419	Nominal RA [deg]
dec_nom	-23.014725642861	Nominal Dec [deg]
roll_nom	81.799556966104	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3071.2091221809	Sum of GTIs [s]
livetime	3031.0815140084	Livetime [s]
ontime2	3071.0449621677	Sum of GTIs [s]
ontime3	3071.1270421743	Sum of GTIs [s]
ontime6	3071.1680821776	Sum of GTIs [s]
ontime7	3071.2091221809	Sum of GTIs [s]
ontime8	3071.086002171	Sum of GTIs [s]
l2events	15682	Number of level 2 events



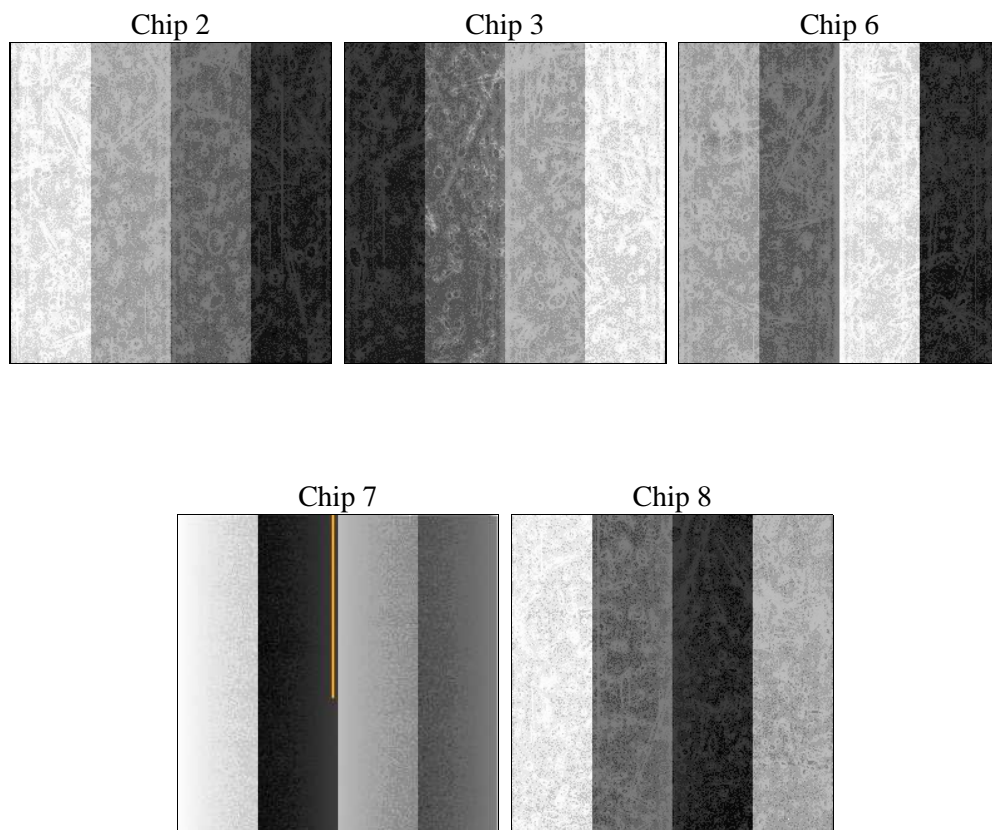
2 OBI

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	3071.2091221809	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3071.0449621677	Sum of GTIs [s]
date	2014-12-09T23:56:23	Date and time of file creation	ontime3	3071.1270421743	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3071.1680821776	Sum of GTIs [s]
			ontime7	3071.2091221809	Sum of GTIs [s]
			ontime8	3071.086002171	Sum of GTIs [s]
			l1events	87819	Number of level 1 events

2.1.4 Events

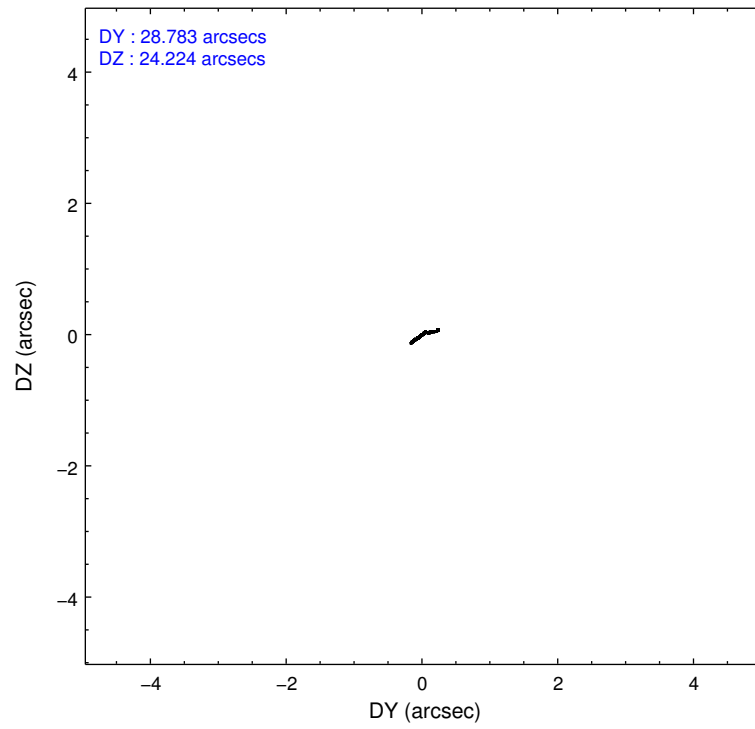
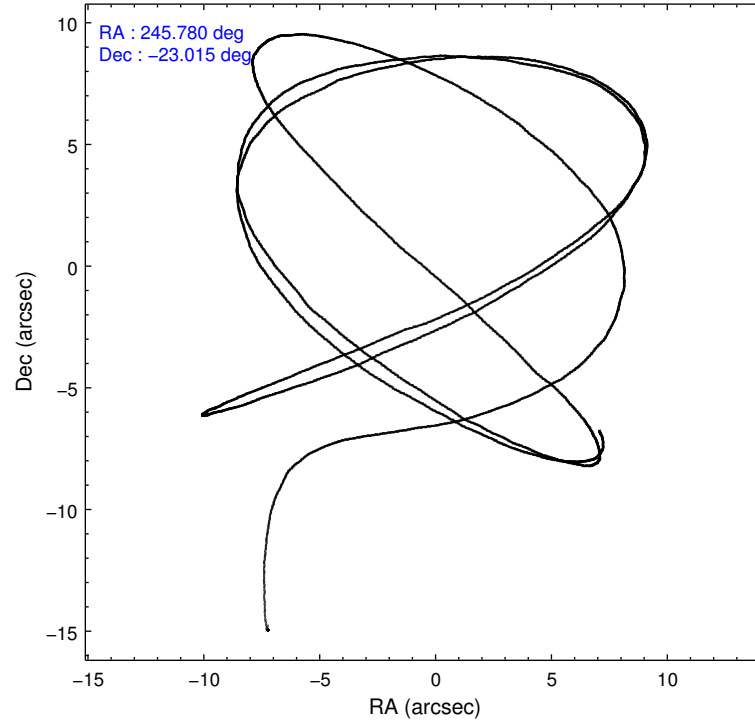
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	16576	14746	14120	21558	20819
rejected events	14879	13122	12279	12010	15256
rejected %	89%	88%	86%	55%	73%

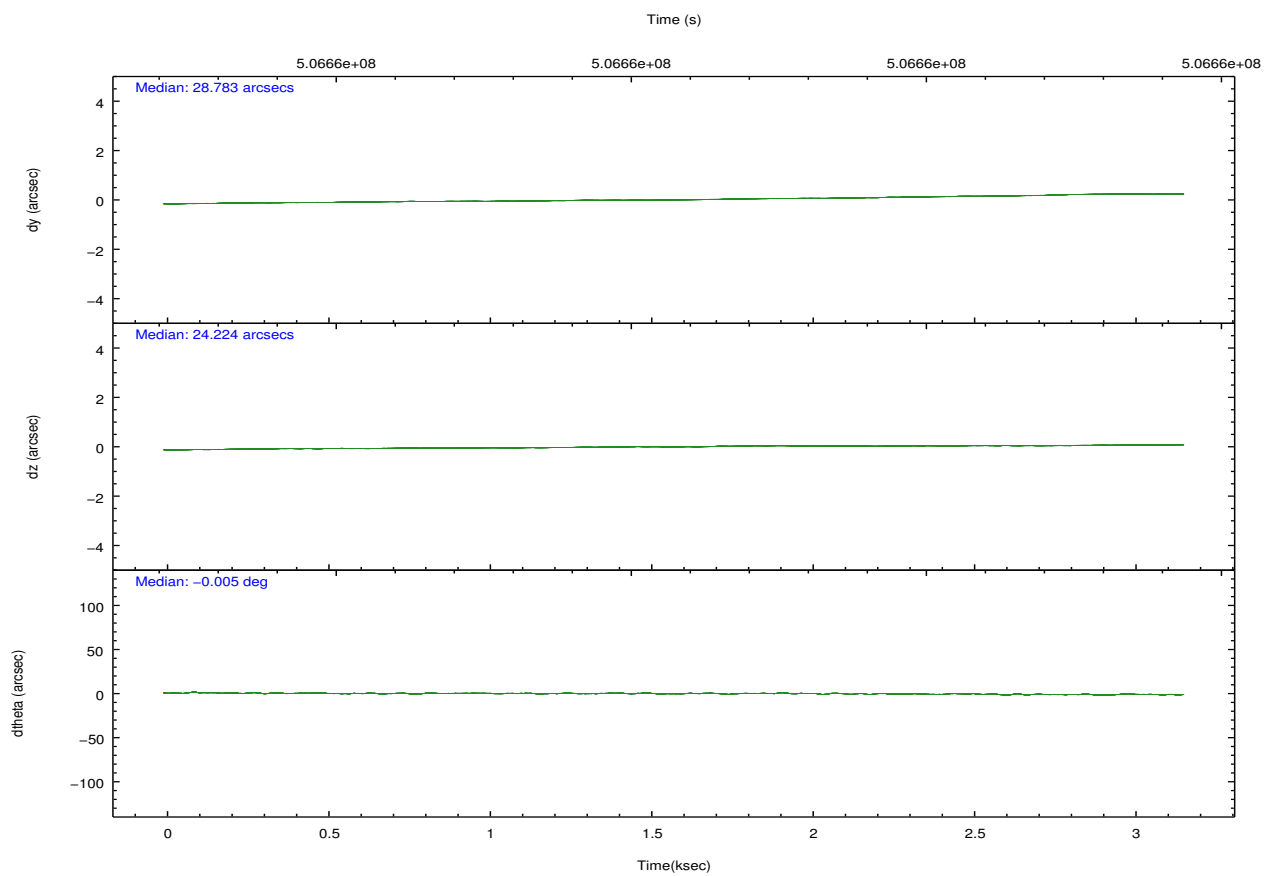
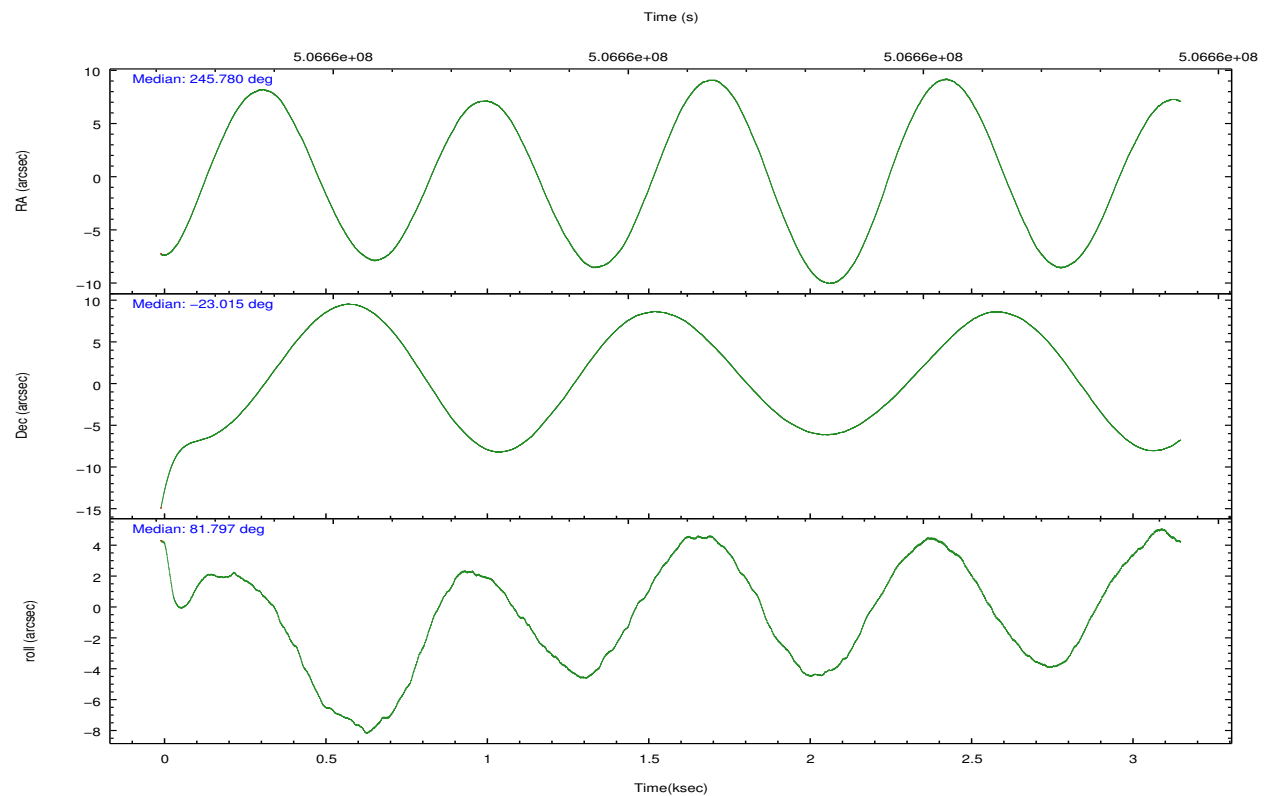
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	619	560	632	926	1706
	3%	3%	4%	4%	8%
grade 1 events	8	8	8	41	13
	0%	0%	0%	0%	0%
grade 2 events	434	371	413	2009	1302
	2%	2%	2%	9%	6%
grade 3 events	165	170	170	819	562
	0%	1%	1%	3%	2%
grade 4 events	168	178	196	796	549
	1%	1%	1%	3%	2%
grade 5 events	653	821	785	2239	1150
	3%	5%	5%	10%	5%
grade 6 events	312	346	430	5007	1445
	1%	2%	3%	23%	6%
grade 7 events	14217	12292	11486	9721	14092
	85%	83%	81%	45%	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	245.791414	245.780047224194	Subarray requested	NONE	NONE
[deg] Pointing Dec	-23.039825	-23.01472564286051	Alternating exposures requested	N	N
[deg] Pointing Roll	81.647369	81.7995569661044	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	506656724.184000	506655772.3643			
Observation start date	2014-01-21T01:57:37	2014-01-21T01:42:52			
[s] Observation end time (MET)	506659724.184000	506660711.83958			
Observation end date	2014-01-21T02:47:37	2014-01-21T03:05:11			
Read mode	TIMED	TIMED			

2.3 Aspect



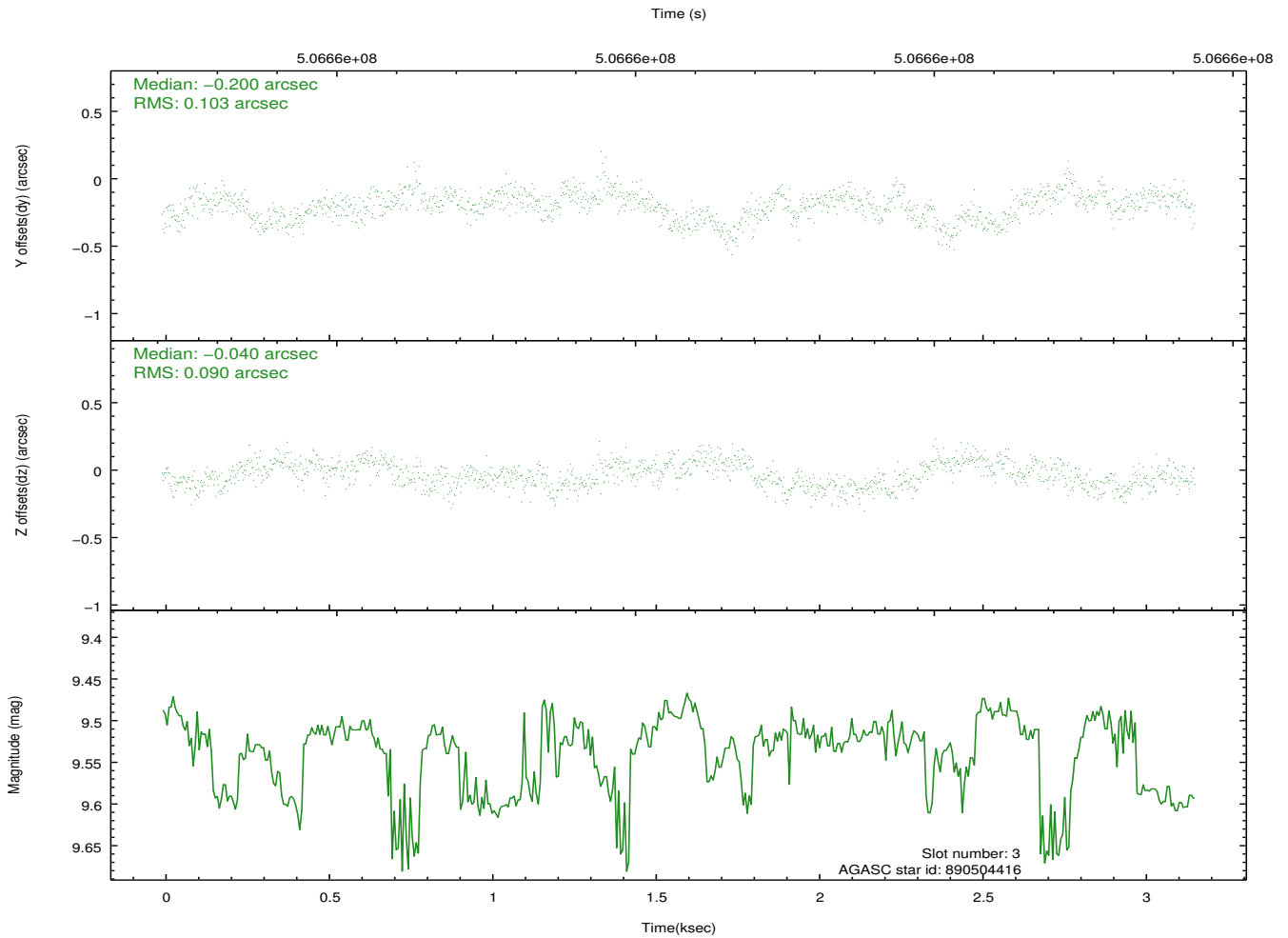
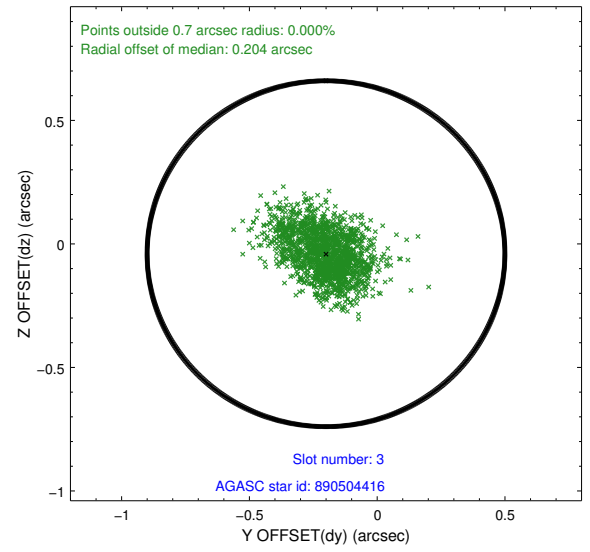
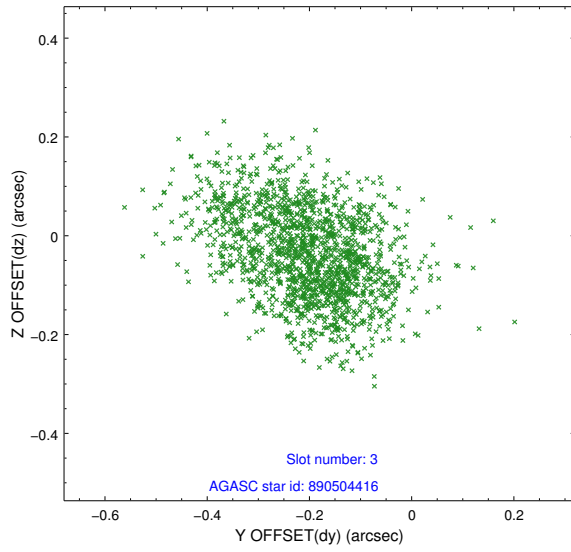


Slot Statistics

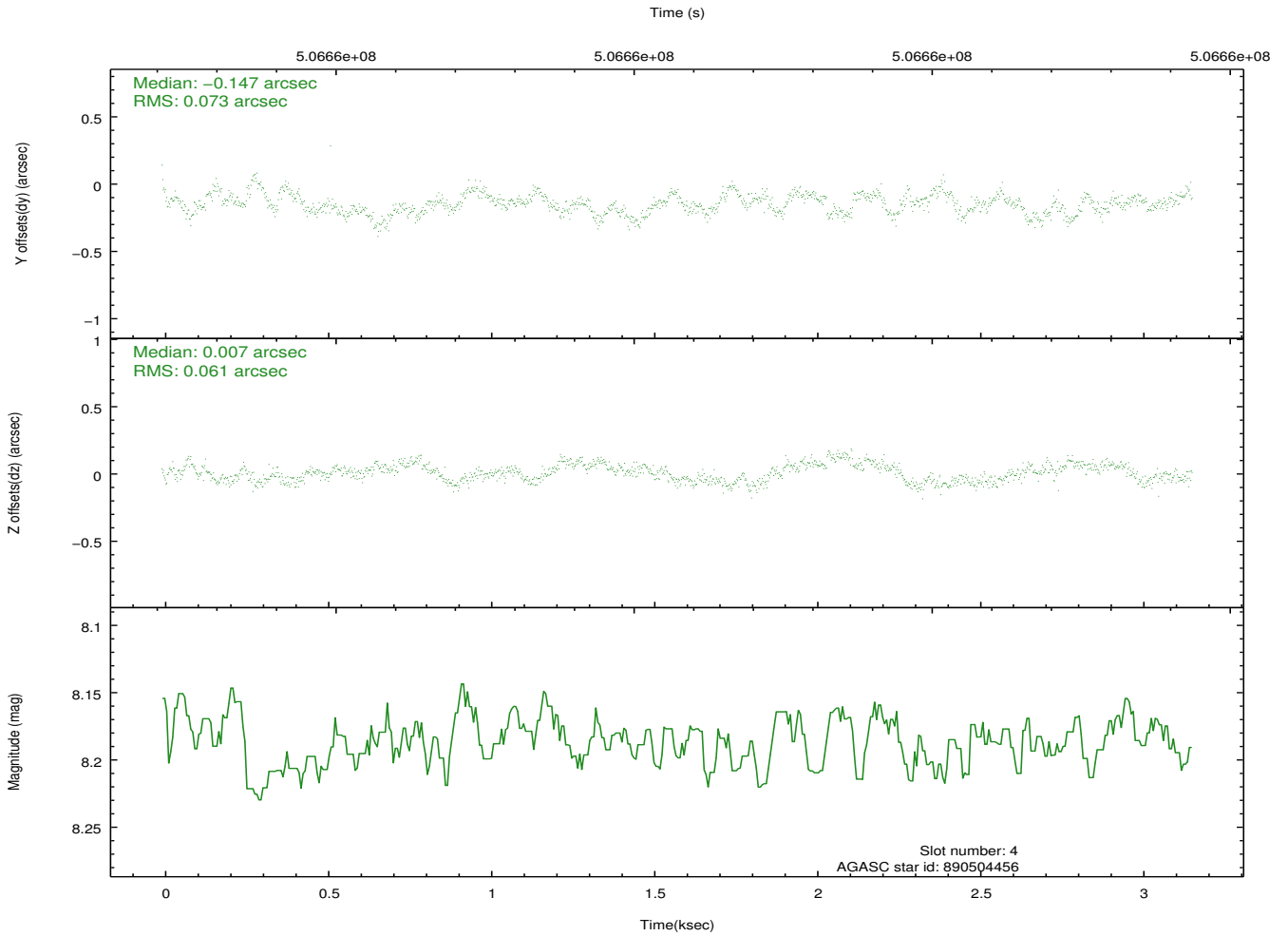
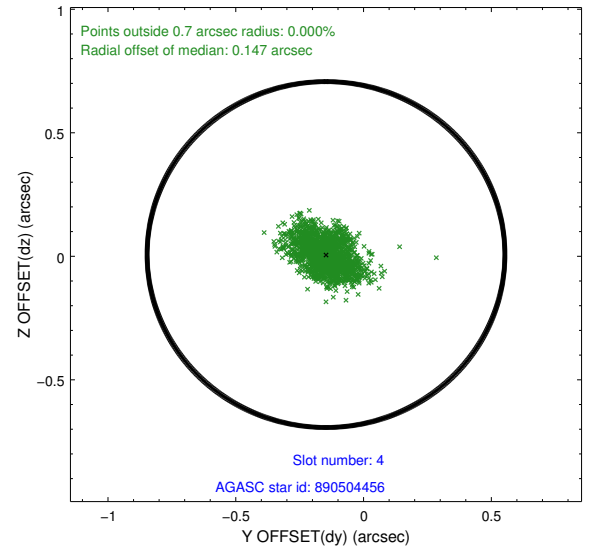
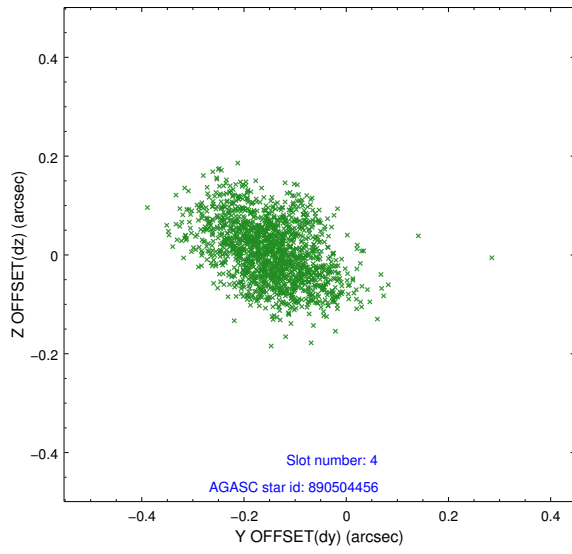
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	771	-0.212	-0.010	0.010	0.020	0.000000	0.000000	-782.35	-1745.86
1	FID		ACIS-S-4	7.03	771	0.396	0.105	0.006	0.010	0.000000	0.000000	2130.57	160.66
2	FID		ACIS-S-5	7.06	771	-0.215	-0.086	0.010	0.020	0.000000	0.000000	-1832.65	156.40
3	GUIDE	used	890504416	9.53	1540	-0.200	-0.040	0.144	0.238	246.214022	-22.659039	1558.84	-1189.69
4	GUIDE	used	890504456	8.19	1542	-0.147	0.007	0.101	0.166	246.104599	-22.654863	1523.05	-829.04
5	GUIDE	used	890504960	9.13	1541	-0.405	-0.643	0.113	0.176	245.209302	-22.594110	1304.01	2146.18
6	GUIDE	used	890506624	8.92	1542	0.379	0.337	0.144	0.223	246.053874	-23.500392	-1513.92	-1095.75
7	GUIDE	used	890507552	7.42	1541	0.368	0.330	0.079	0.127	246.396169	-23.405213	-1015.23	-2168.41

2.4 Star Slots

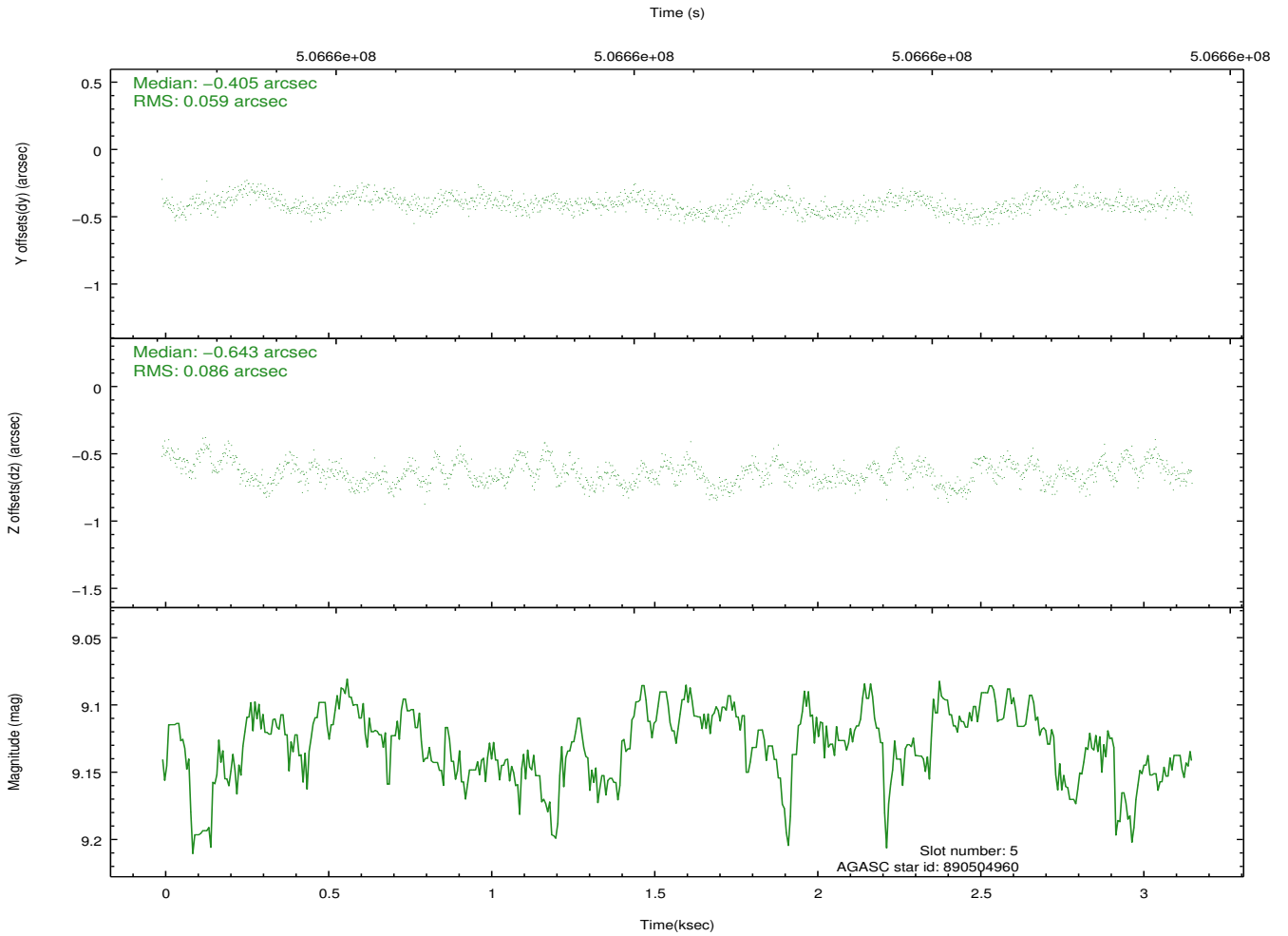
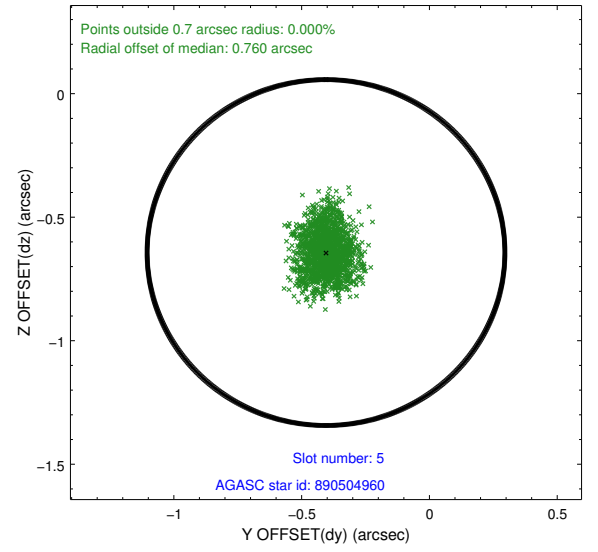
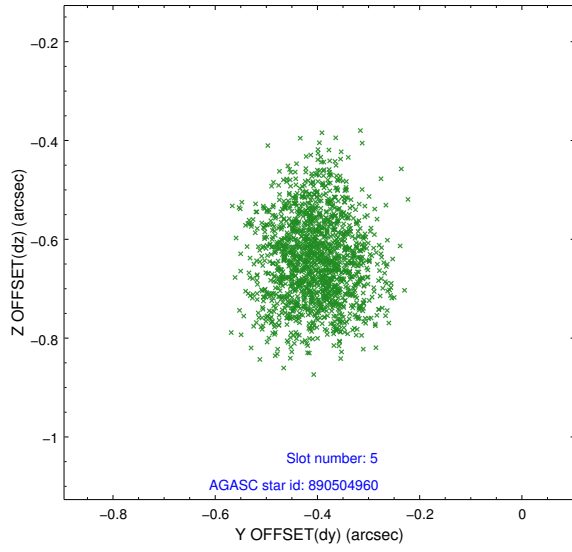
2.4.1 Slot 3



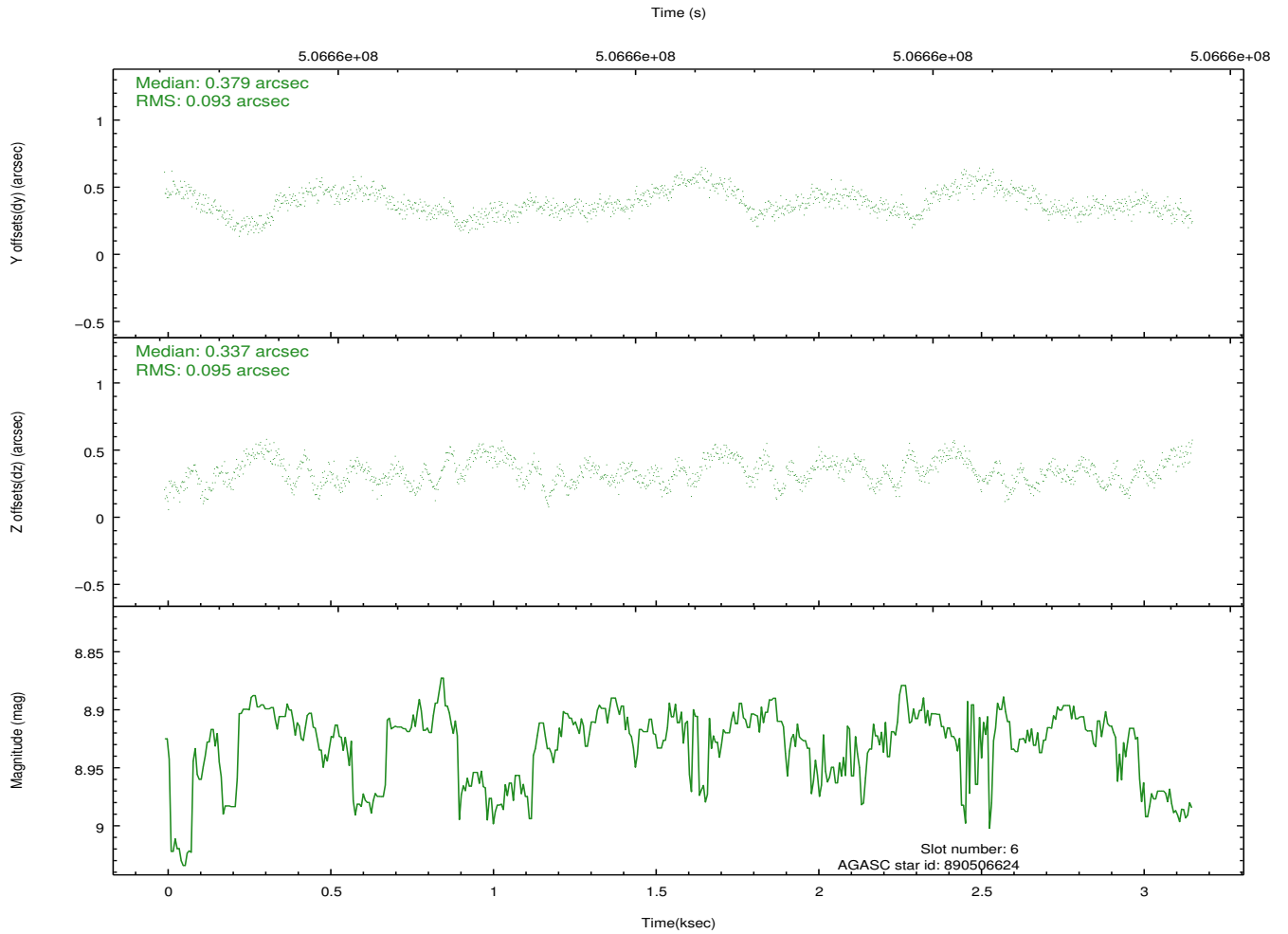
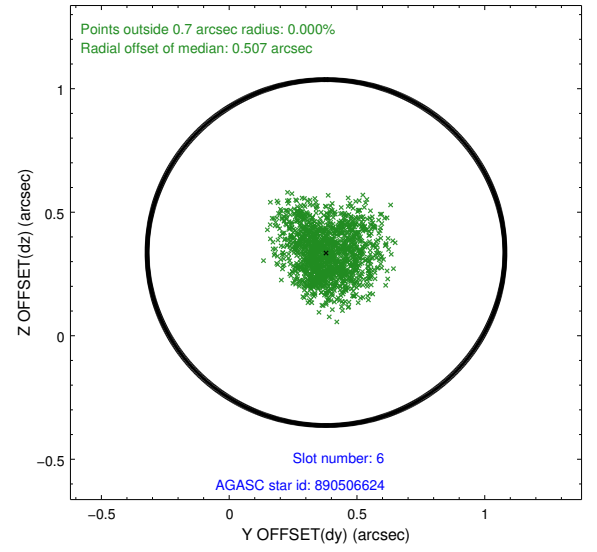
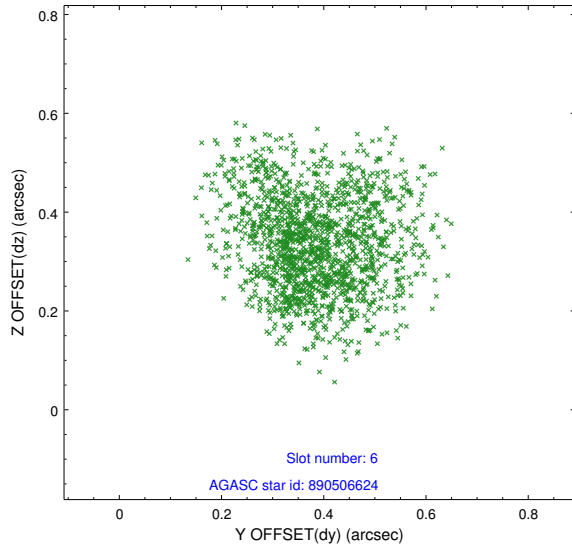
2.4.2 Slot 4



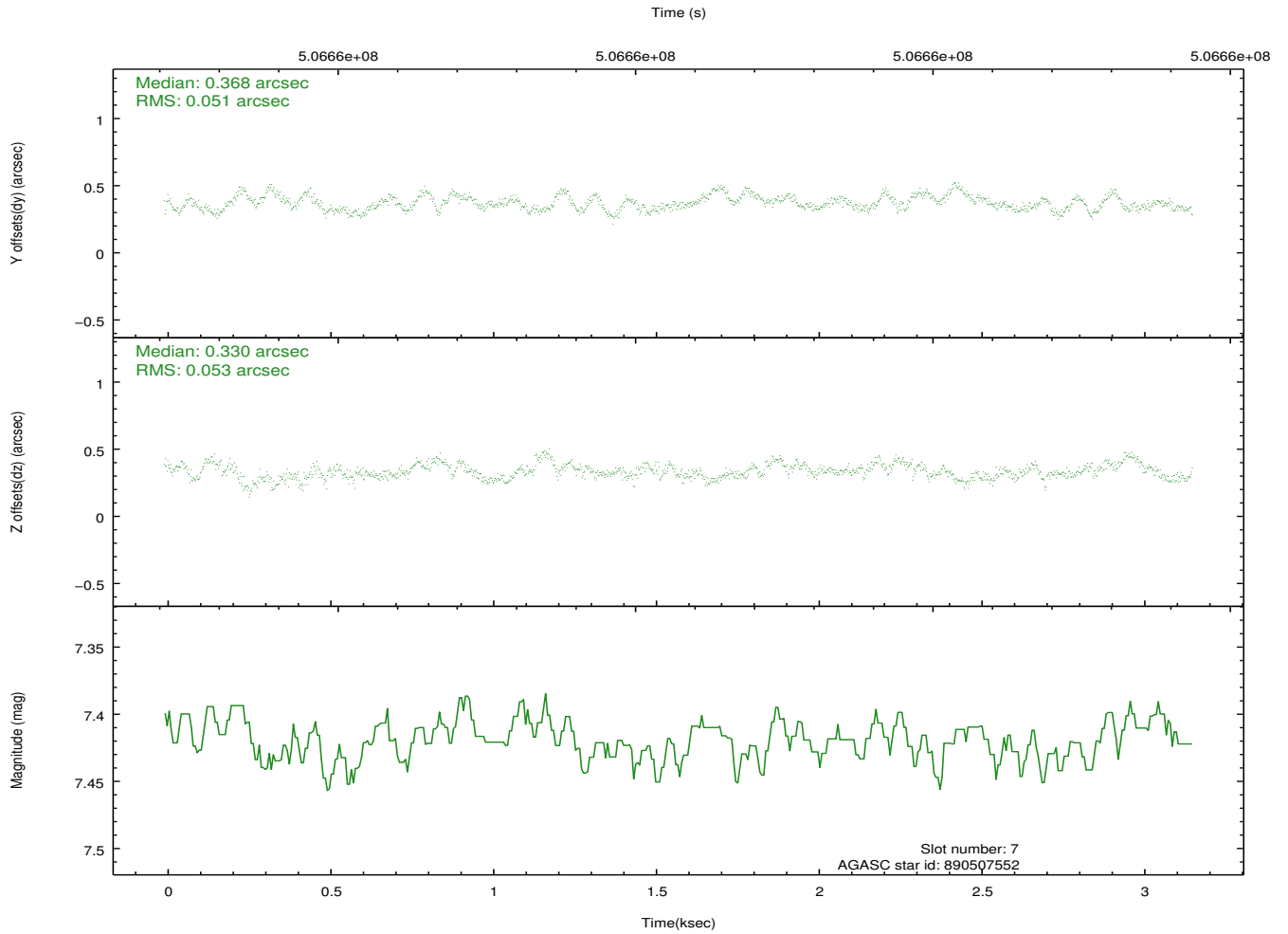
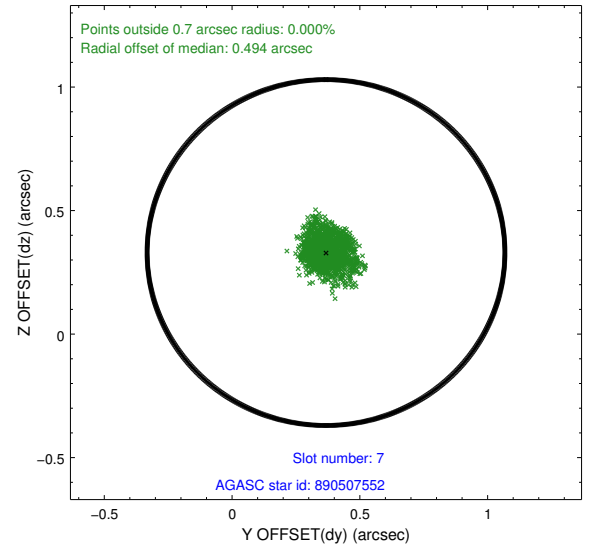
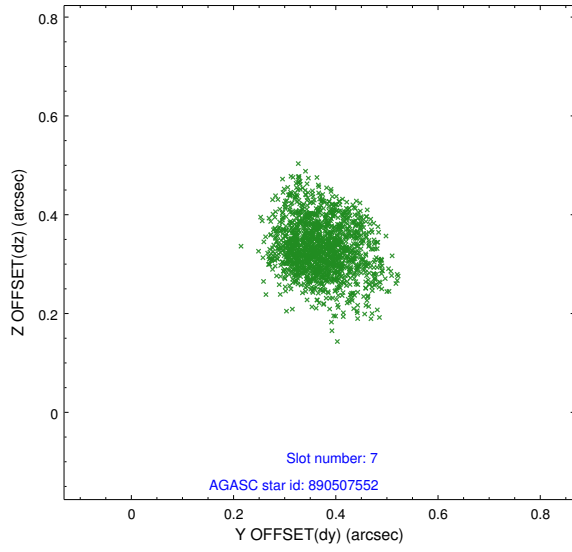
2.4.3 Slot 5



2.4.4 Slot 6

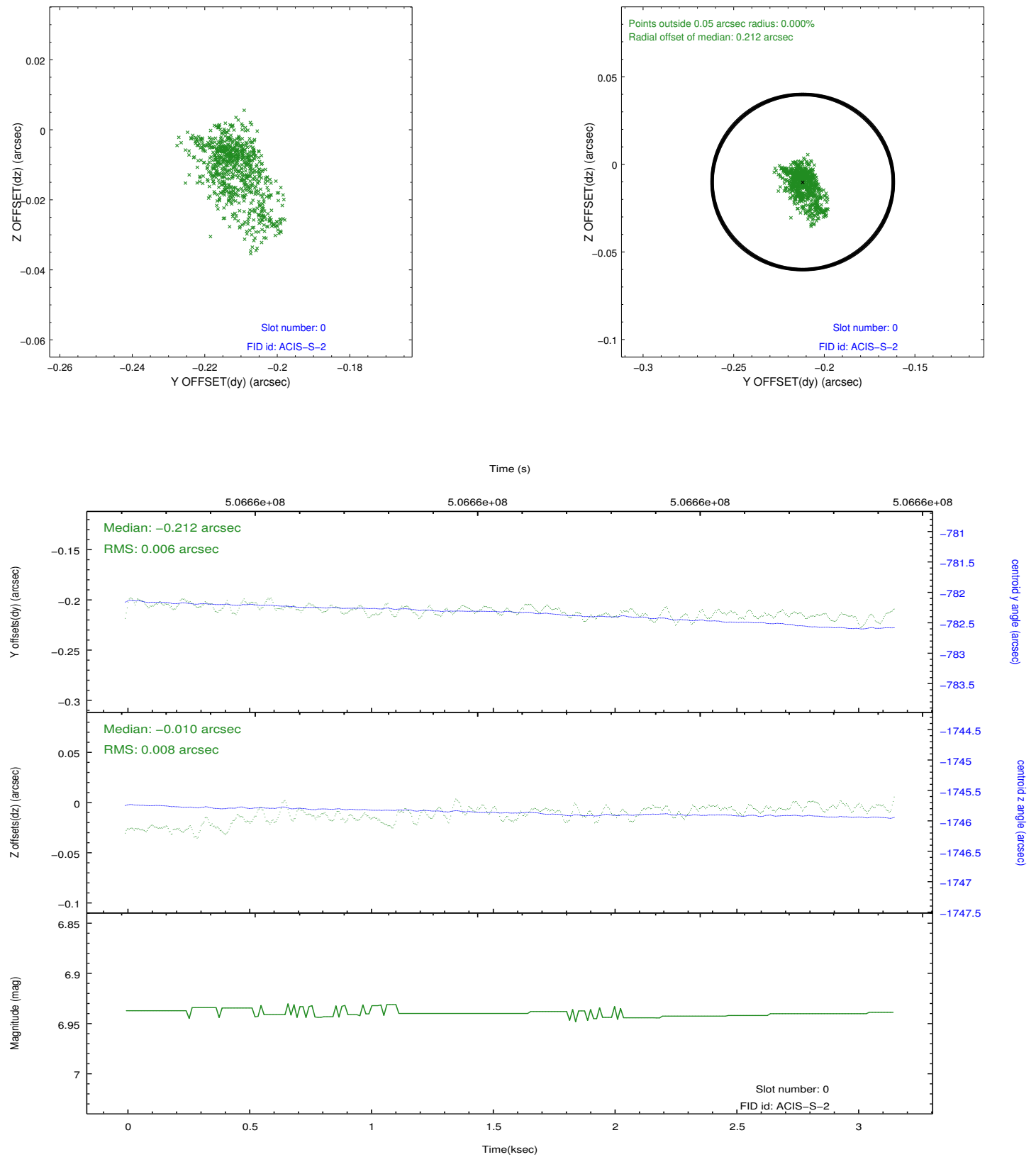


2.4.5 Slot 7

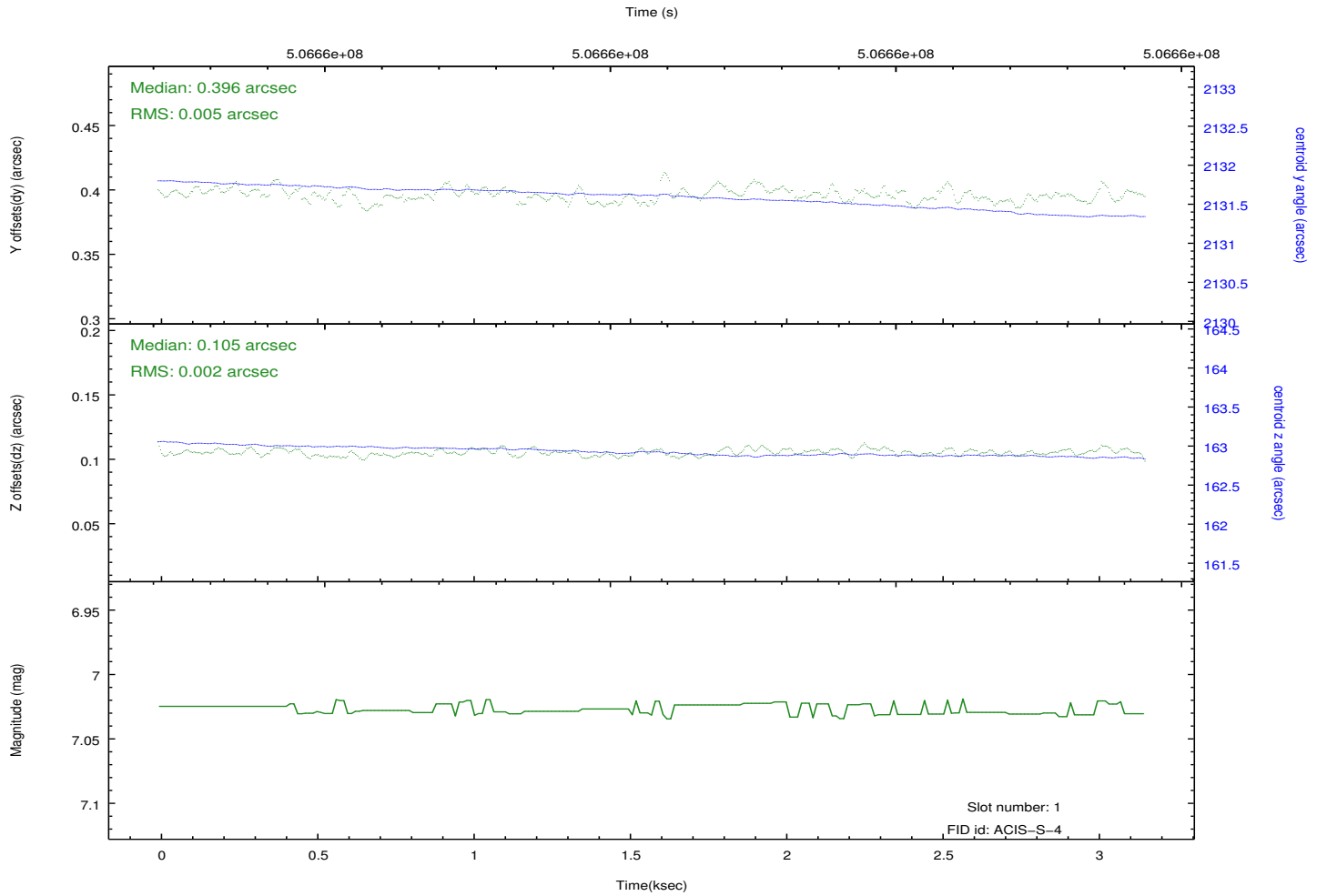
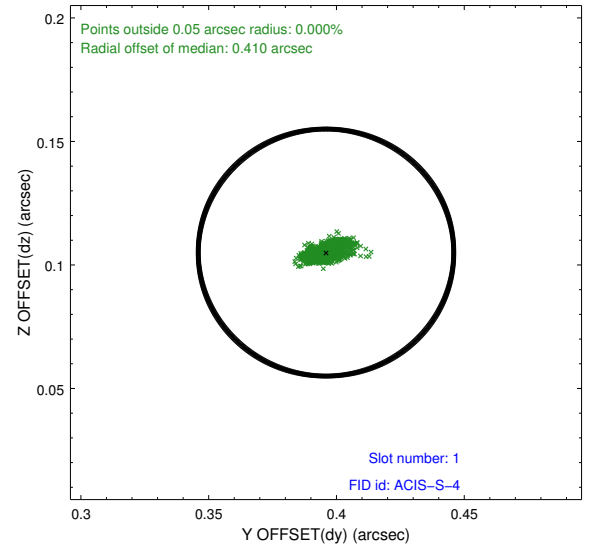
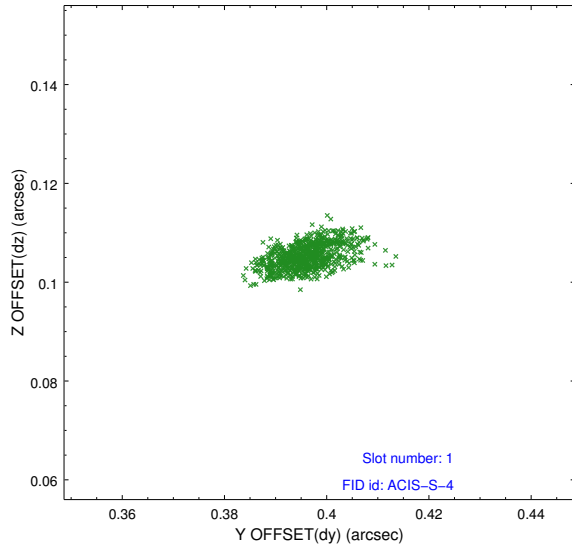


2.5 FID Slots

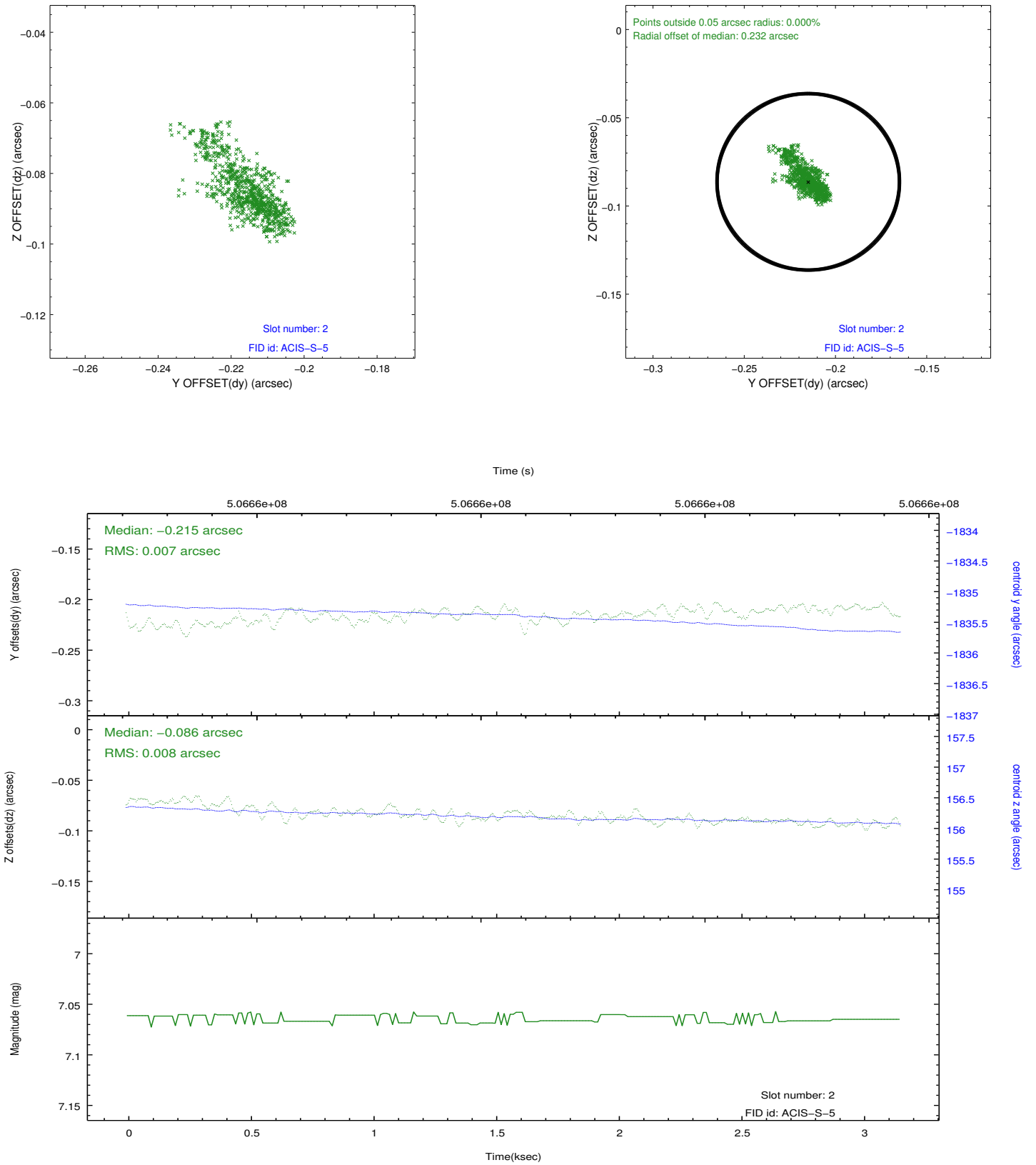
2.5.1 Slot 0



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	3.0712091221809

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.