

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17321 - L2 Version 3
Chandra X-Ray Center

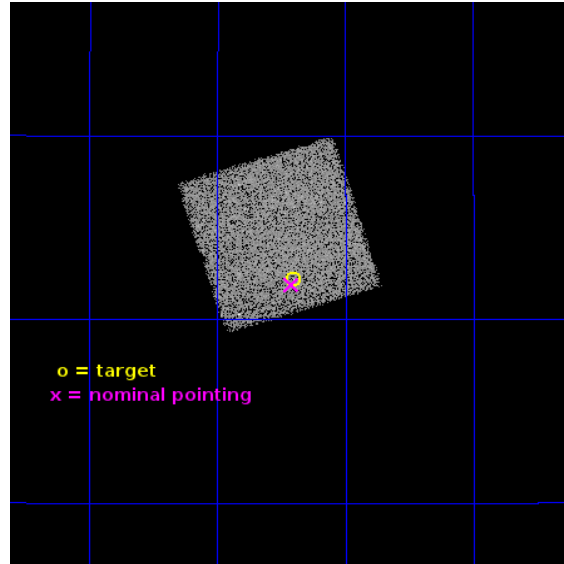
L2 Processing Date : Jul 6 2015

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1 Front

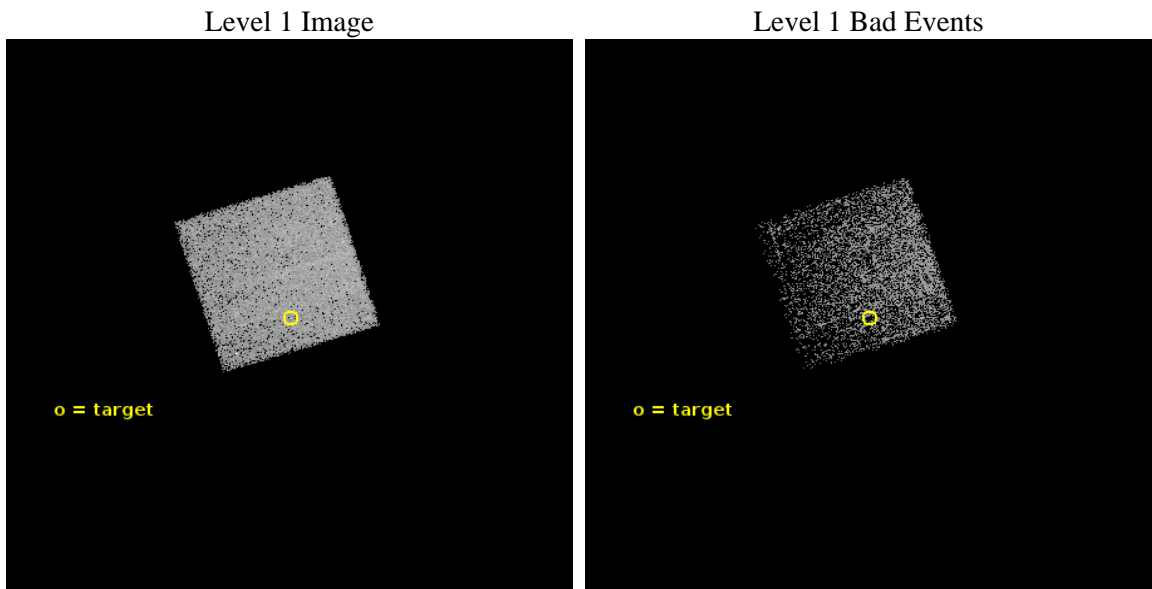
seq_num	201021	Sequence number
obs_id	17321	Observation id
title	The MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-mass Exoplanetary Systems	Proposal title
observer	Dr. Kevin France	Principal investigator
object	GJ436	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	175.550417	Observer's specified target RA [deg]
dec_targ	26.703167	Observer's specified target Dec [deg]
ra_nom	175.5526519673	Nominal RA [deg]
dec_nom	26.698118235898	Nominal Dec [deg]
roll_nom	252.3824273931	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19866.0	Sum of GTIs [s]
livetime	19597.900718175	Livetime [s]
ontime7	19866.0	Sum of GTIs [s]
l2events	29497	Number of level 2 events



2 OBI

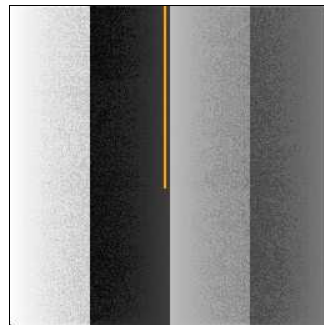
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	19866.0	Sum of GTIs [s]
caldbver	4.6.7	 	ontime7	19866.0	Sum of GTIs [s]
date	2015-07-06T17:44:24	Date and time of file creation	l1events	56086	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

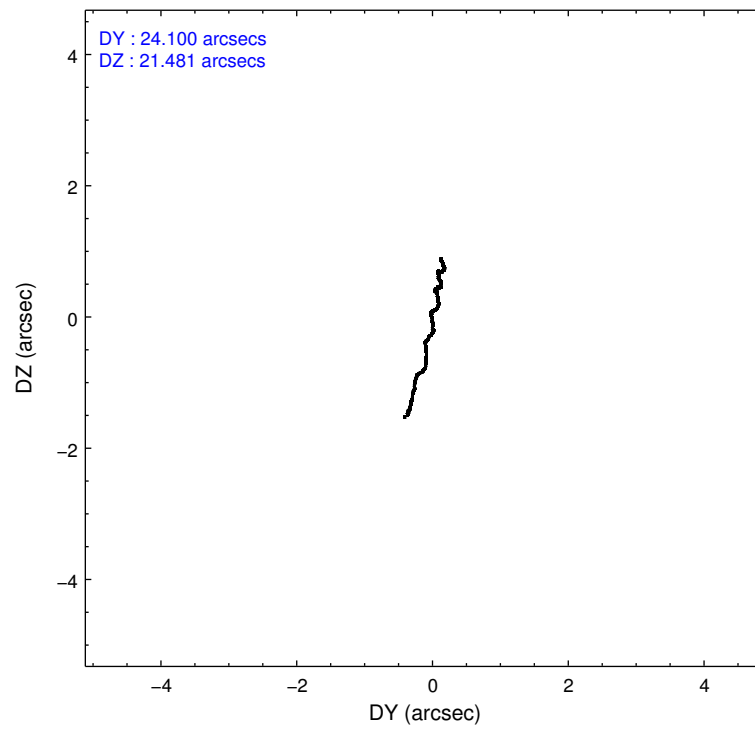
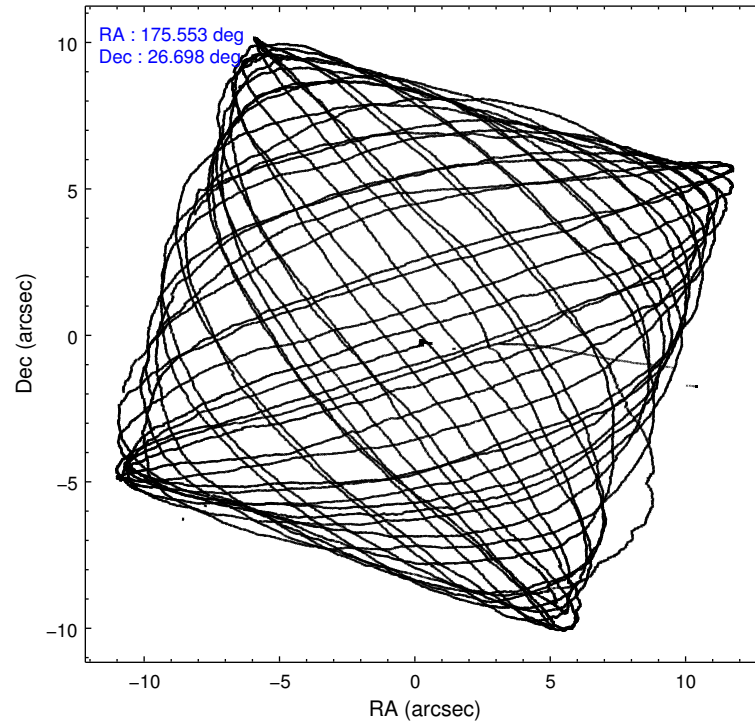
	ccd 7
level 1 events	56086
rejected events	25504
rejected %	45%

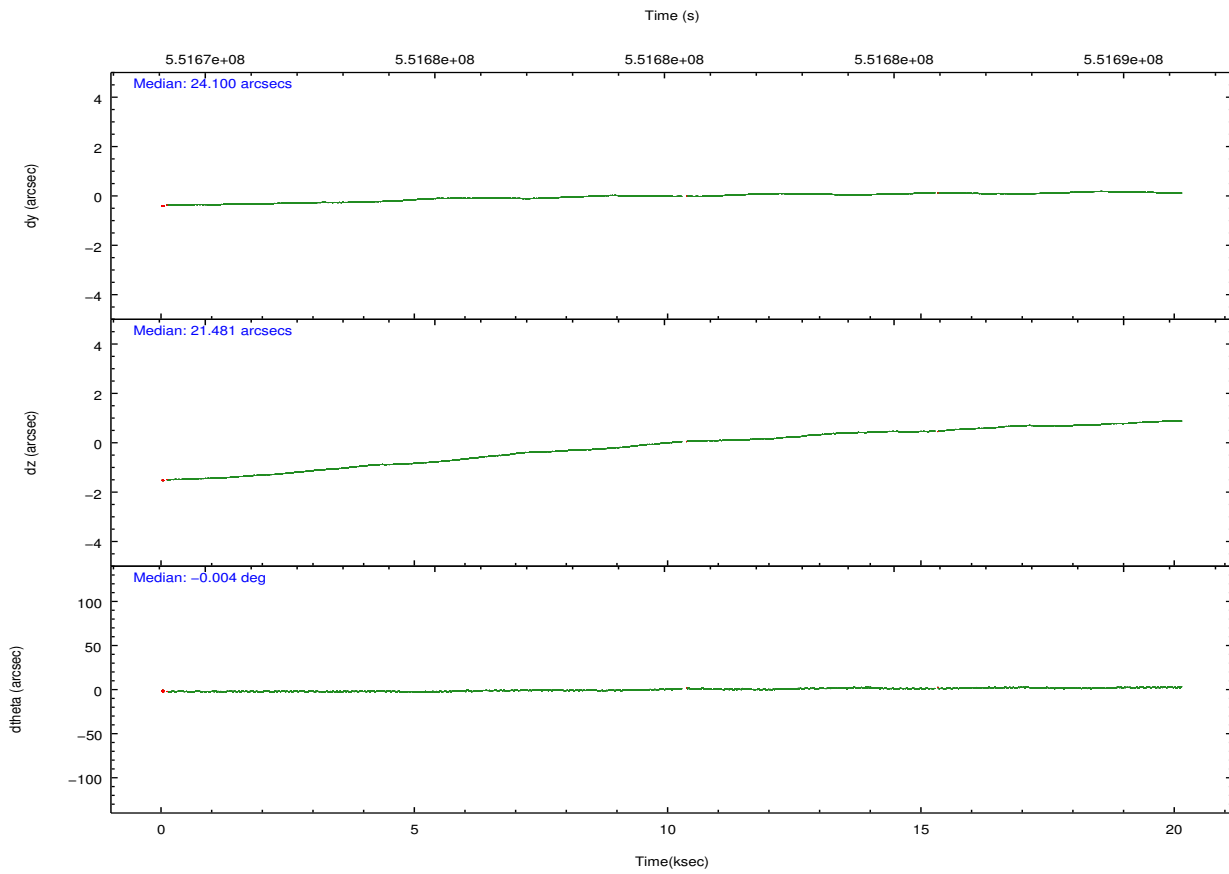
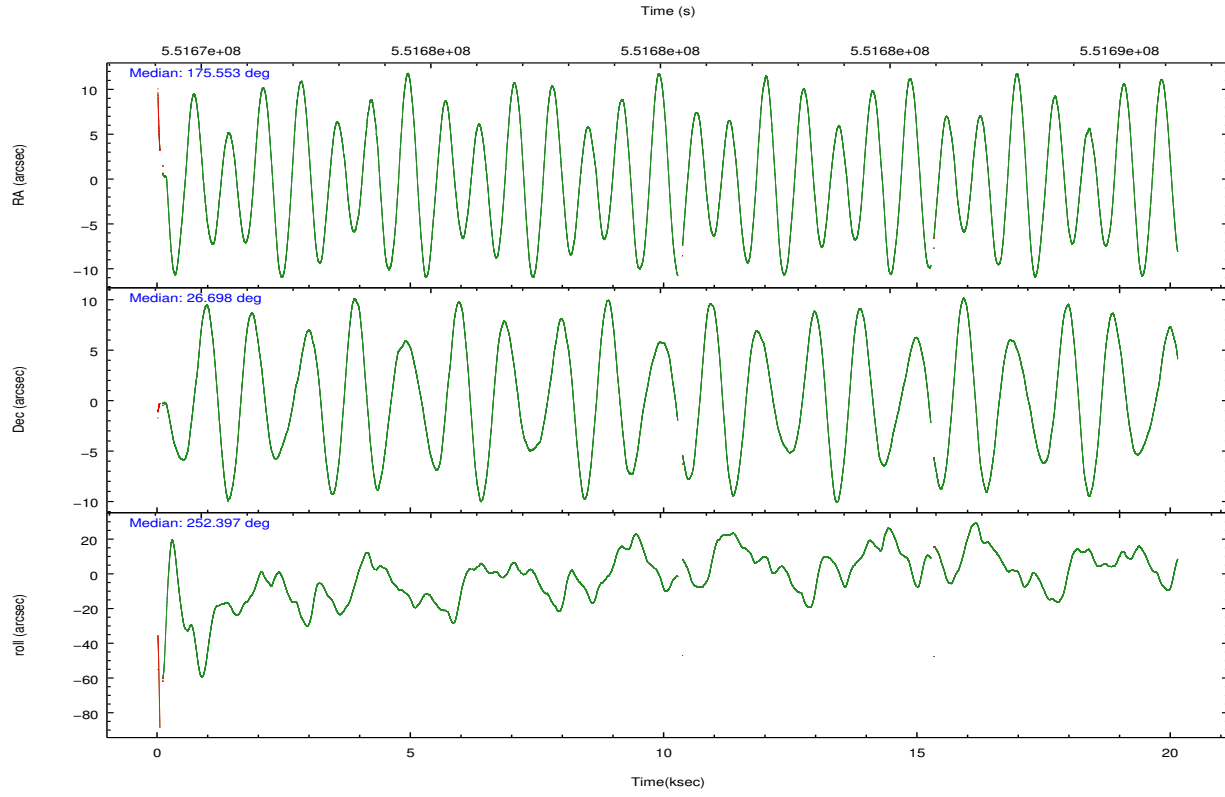
	ccd 7
grade 0 events	3989
	7%
grade 1 events	159
	0%
grade 2 events	7769
	13%
grade 3 events	2990
	5%
grade 4 events	3018
	5%
grade 5 events	5724
	10%
grade 6 events	13553
	24%
grade 7 events	18884
	33%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	175.545655	175.552651967301	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.724835	26.69811823589767	Alternating exposures requested	N	N
[deg] Pointing Roll	252.228982	252.3824273930979	[s] Primary exposure time	0.000000	3
[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)	551670228.184000	551668989.65363			
Observation start date	2015-06-26T01:42:41	2015-06-26T01:23:09			
[s] Observation end time (MET)	551690228.184000	551691061.49237			
Observation end date	2015-06-26T07:16:01	2015-06-26T07:31:01			
Read mode	TIMED	TIMED			

2.3 Aspect



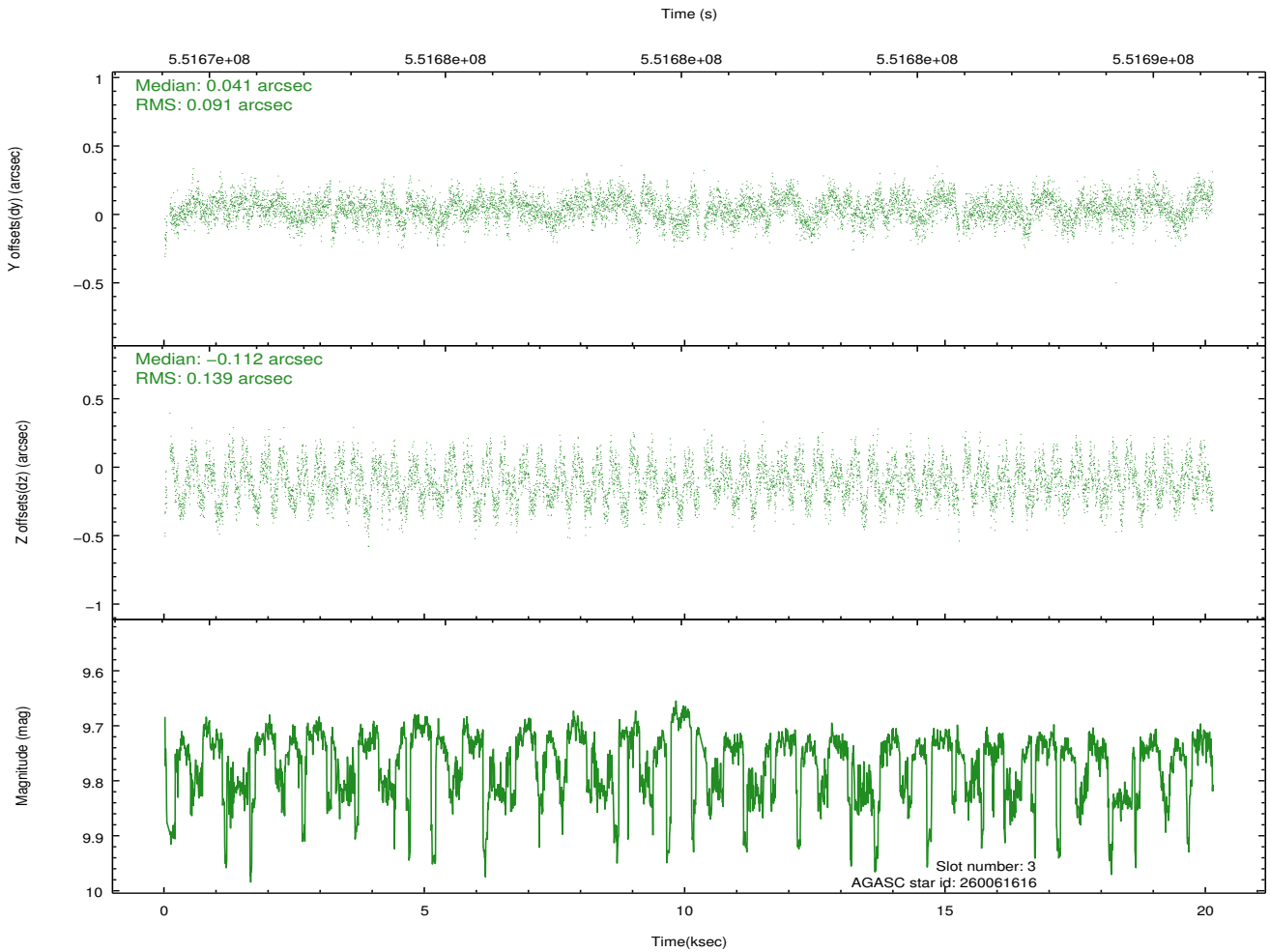
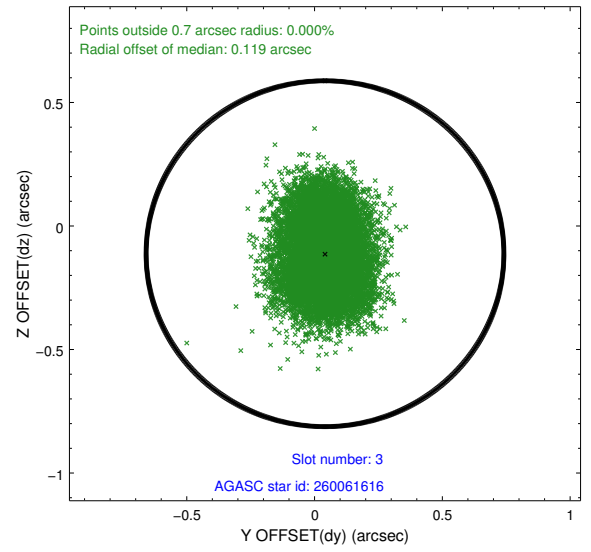
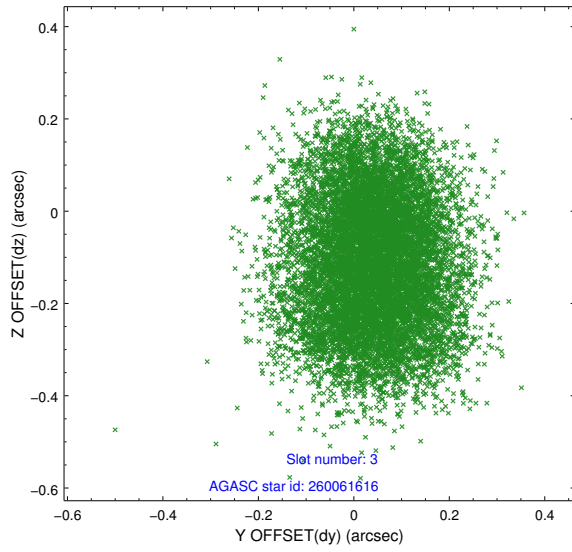


Slot Statistics

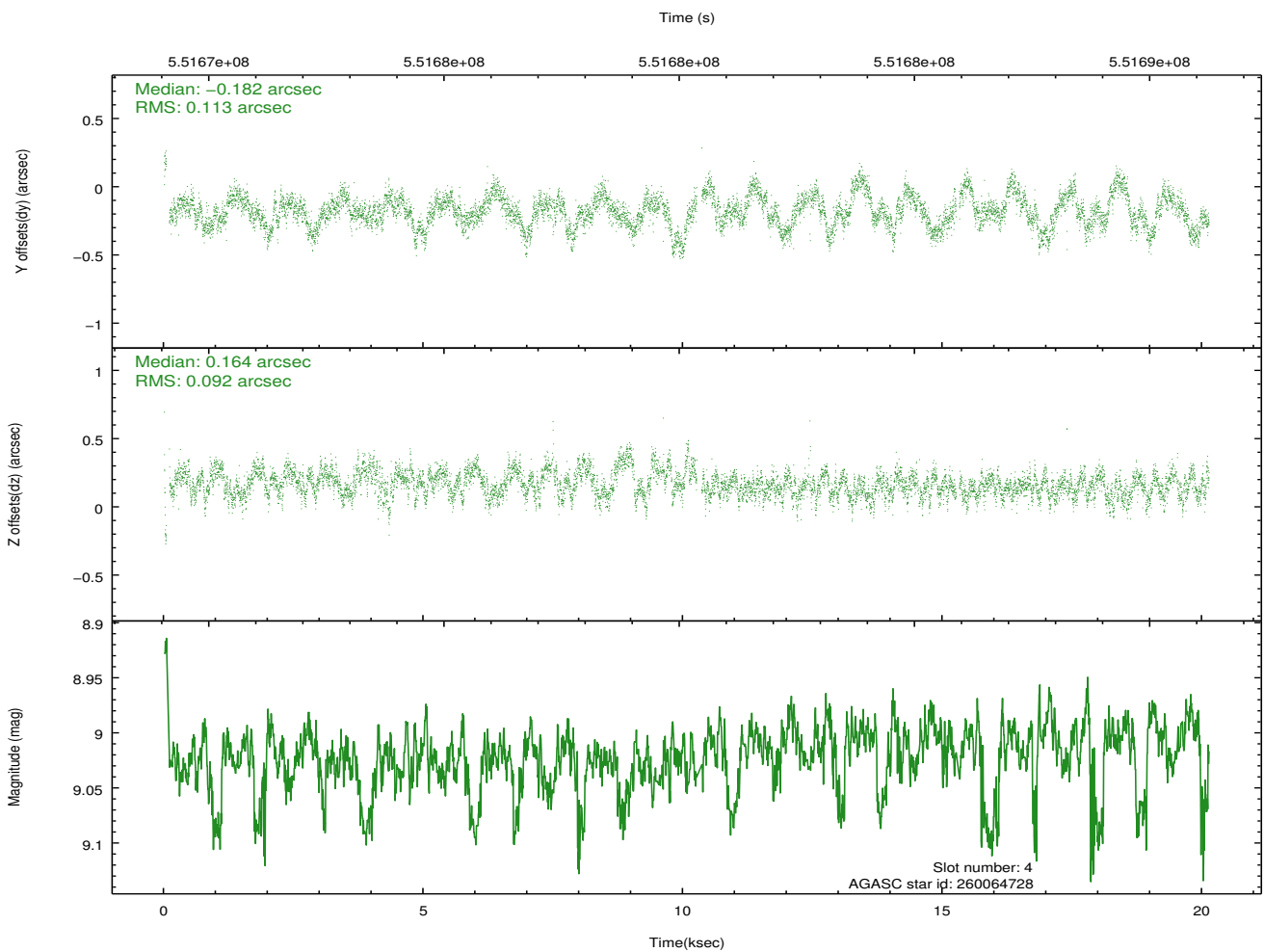
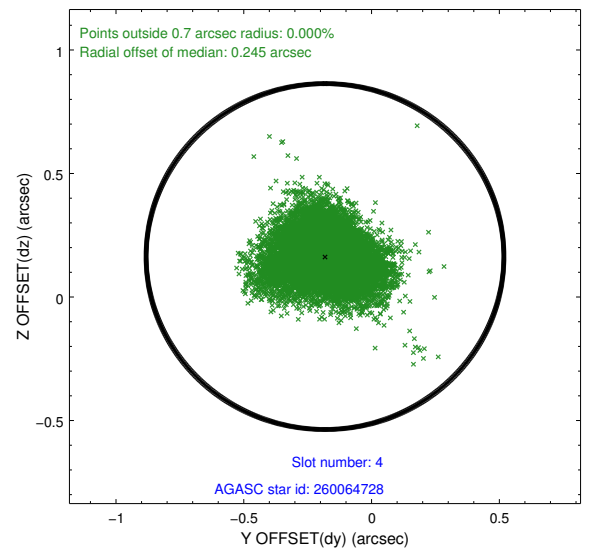
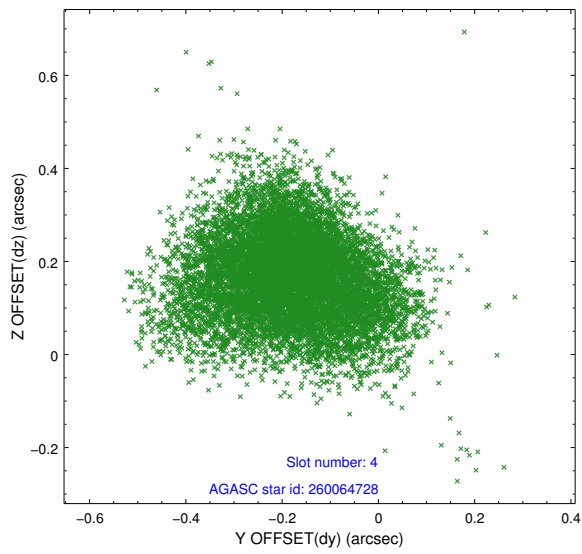
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	4859	-0.190	-0.089	0.017	0.025	0.000000	0.000000	-777.47	-1742.95
1	FID		ACIS-S-4	7.13	4859	0.433	0.116	0.021	0.051	0.000000	0.000000	2136.34	165.52
2	FID		ACIS-S-5	7.14	4858	-0.272	-0.016	0.018	0.029	0.000000	0.000000	-1830.14	159.29
3	GUIDE	used	260061616	9.76	9715	0.041	-0.112	0.180	0.279	175.767684	26.863293	-692.46	527.04
4	GUIDE	used	260064728	9.02	9624	-0.182	0.164	0.156	0.251	175.679144	27.248869	-1925.31	-170.31
5	GUIDE	used	260064920	9.85	9668	0.142	-0.048	0.196	0.324	175.209684	27.211295	-1339.53	-1558.54
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	MONITOR	unused		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

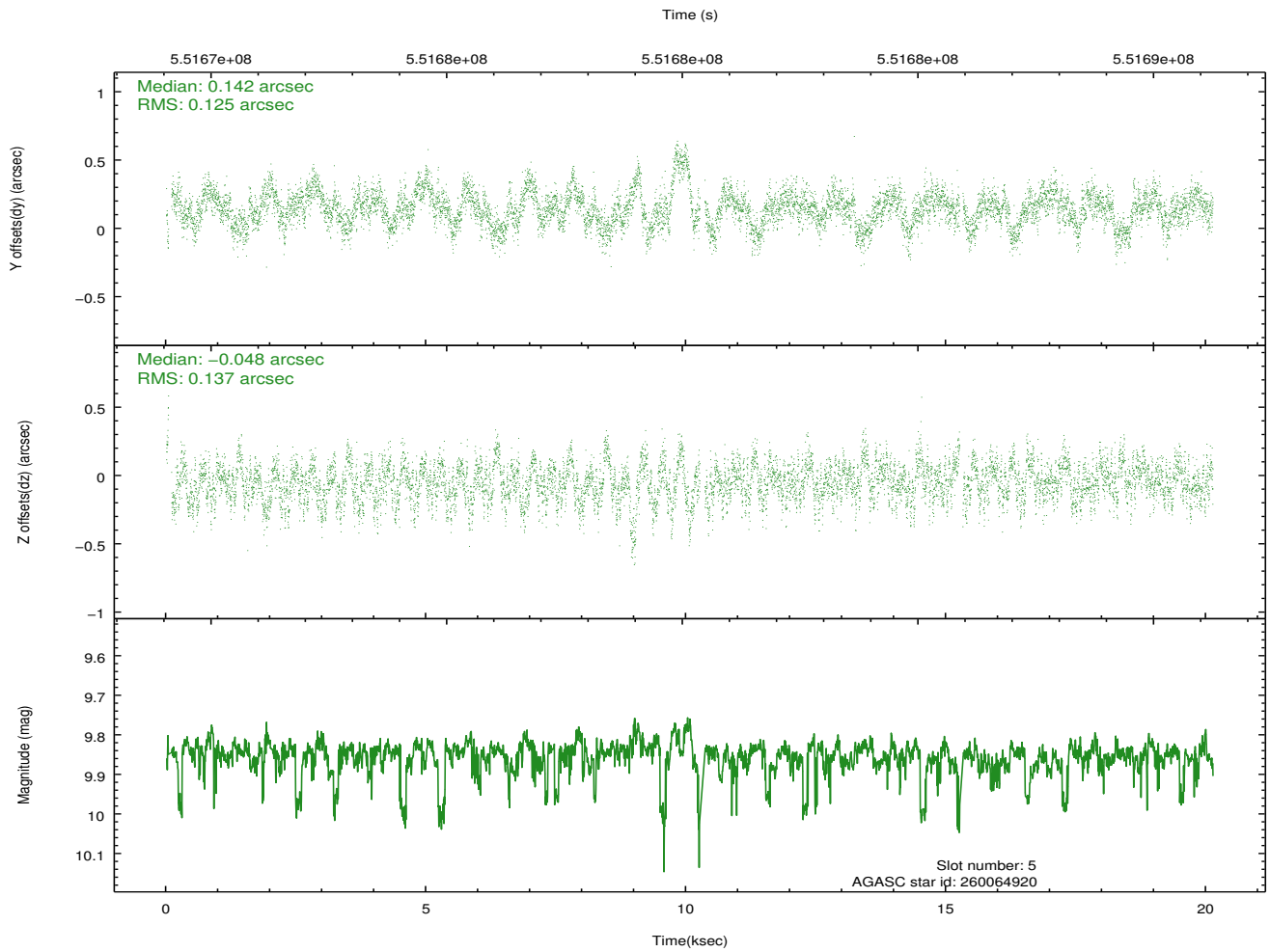
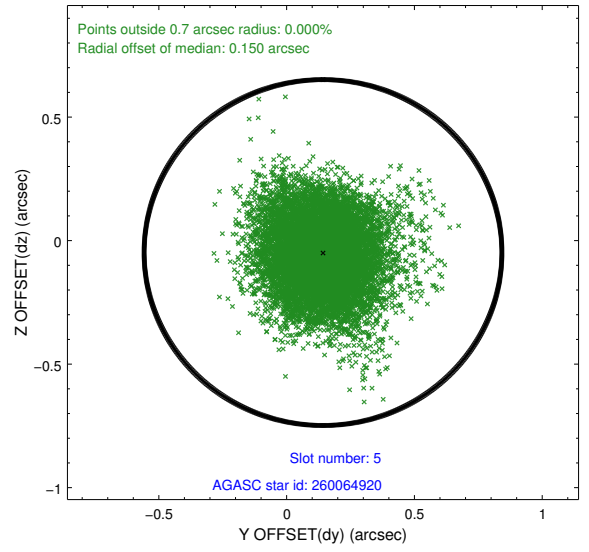
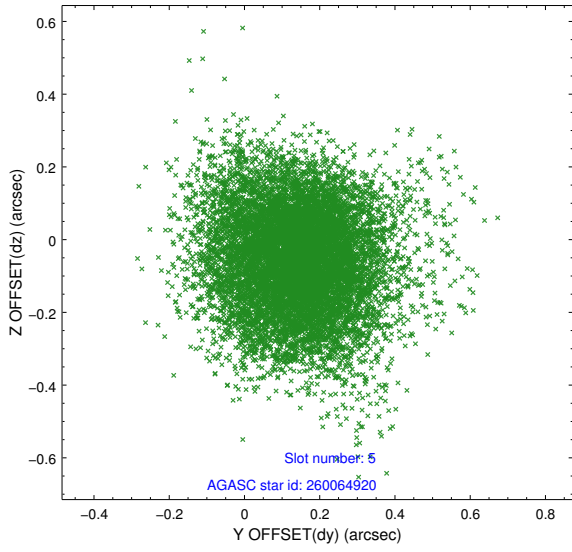
2.4.1 Slot 3



2.4.2 Slot 4

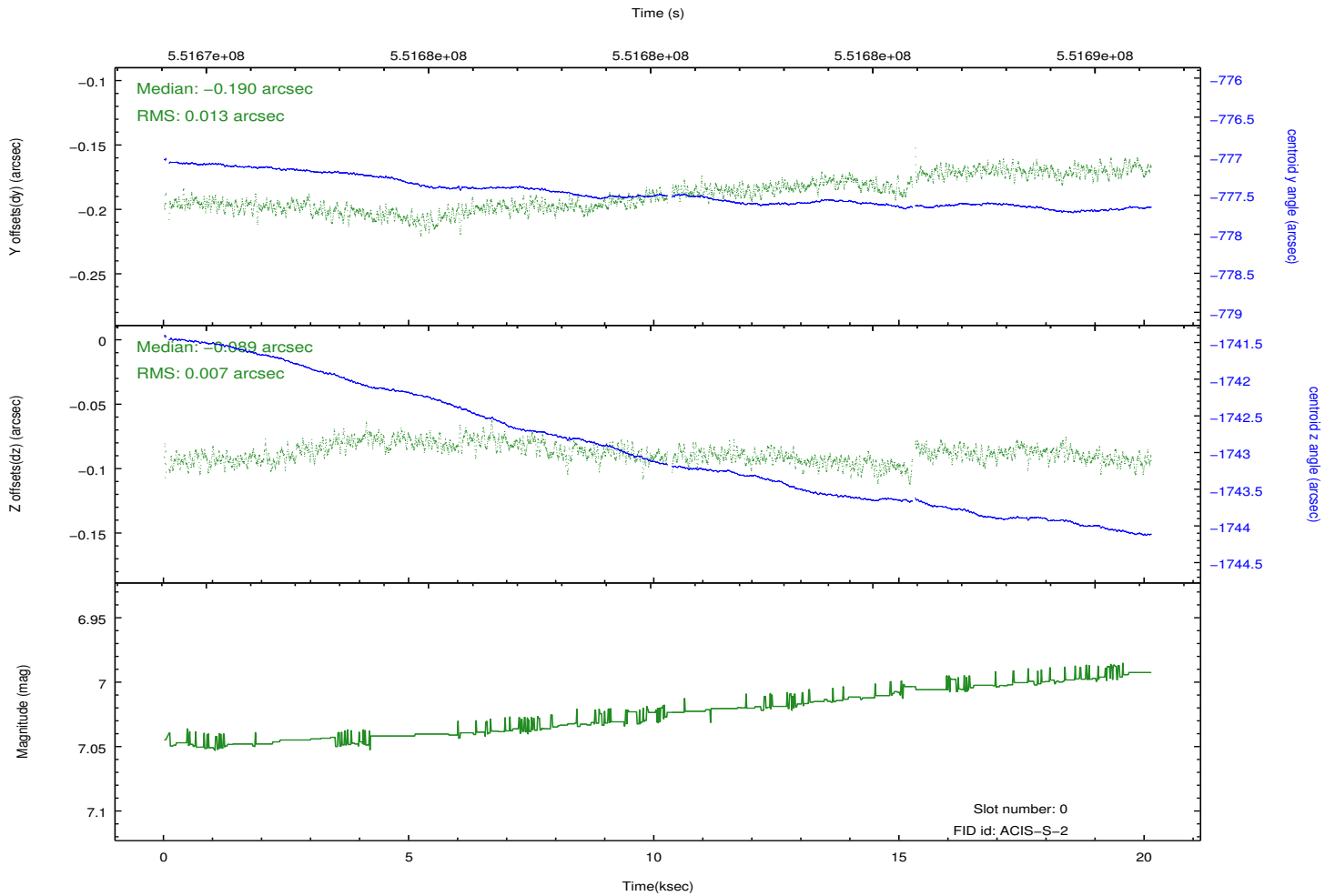
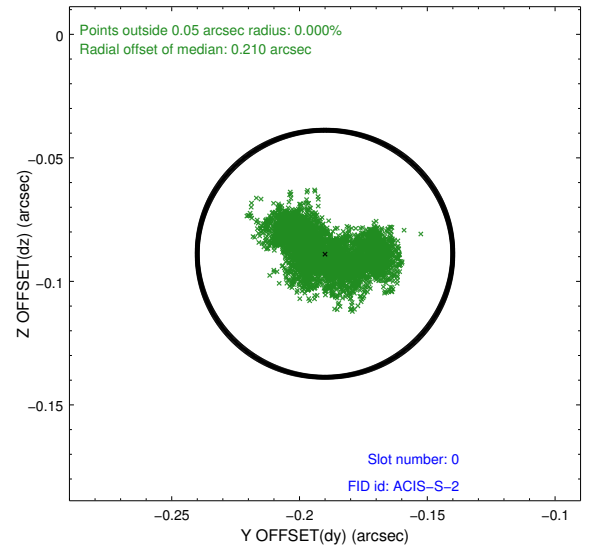
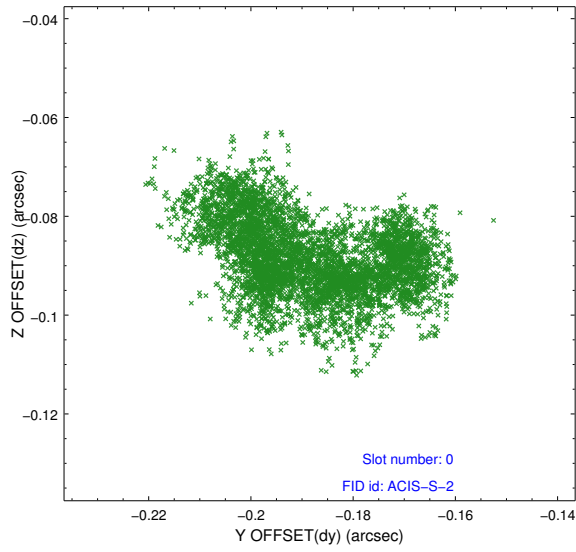


2.4.3 Slot 5

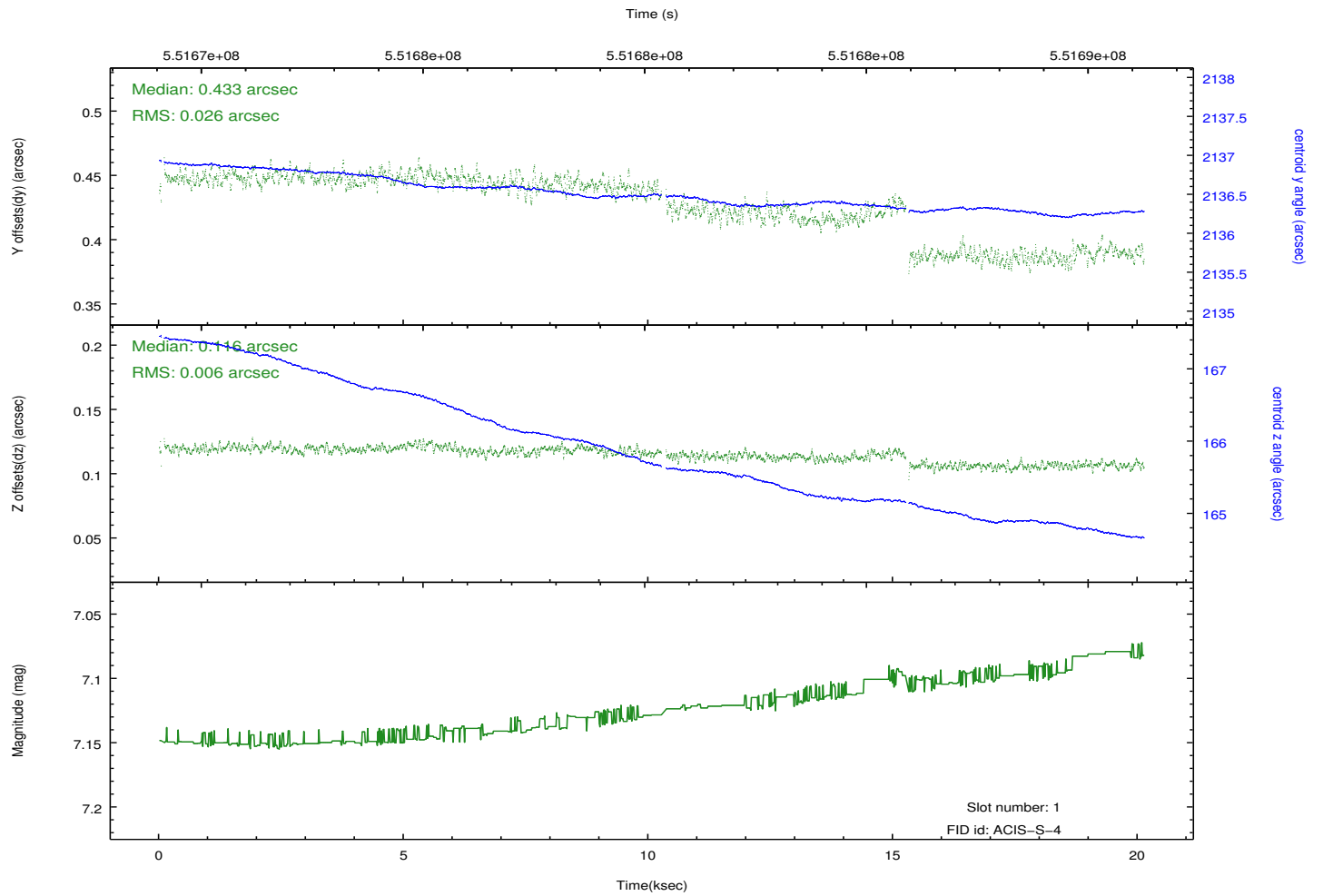
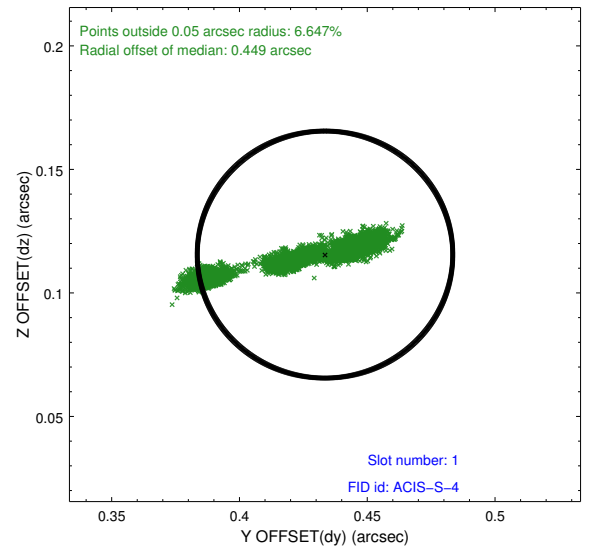
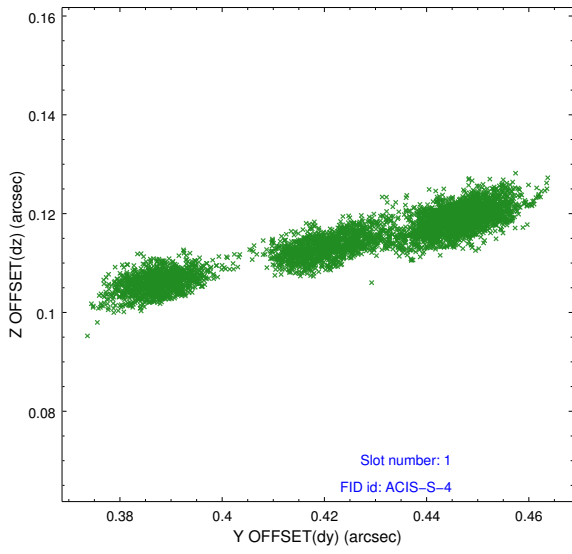


2.5 FID Slots

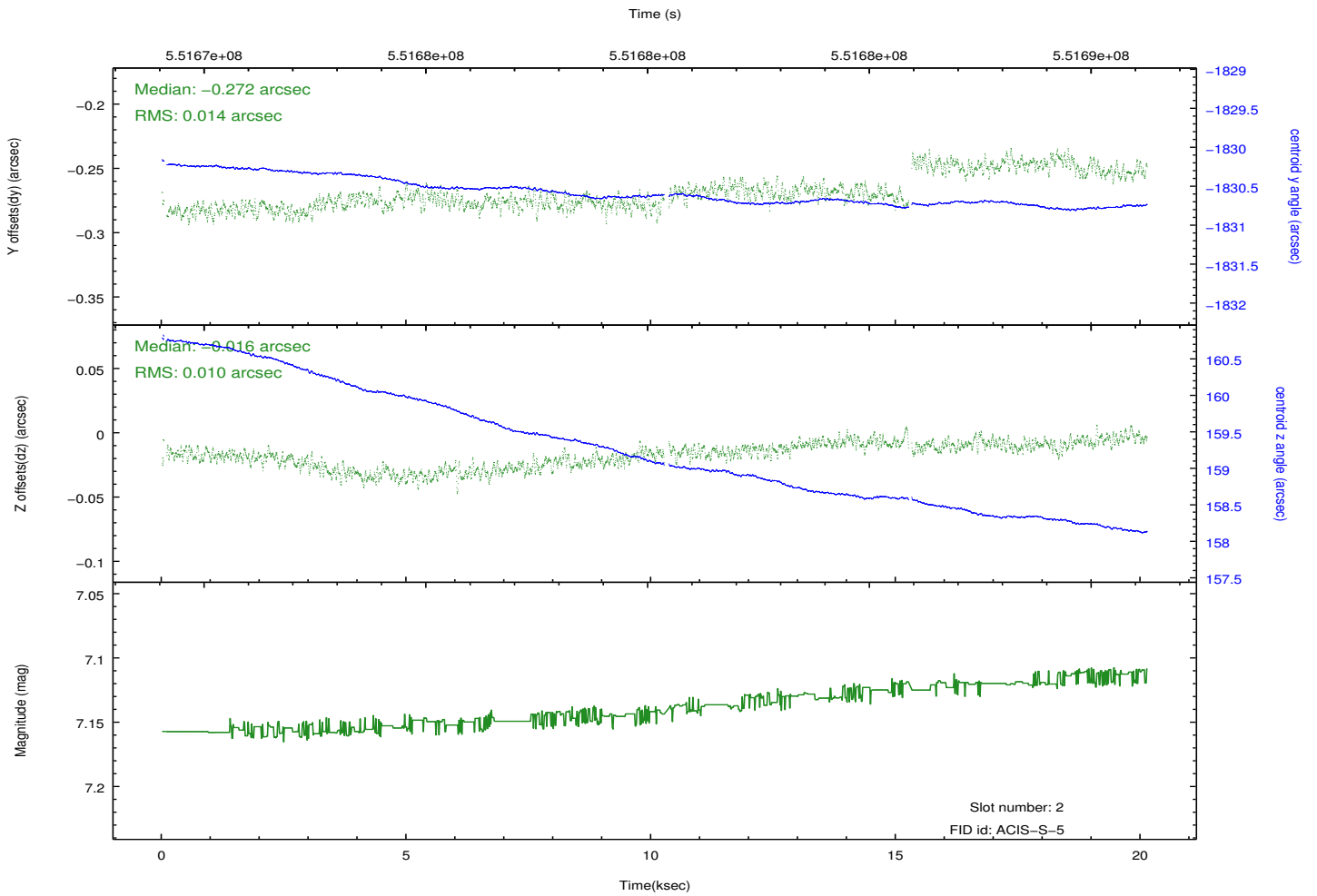
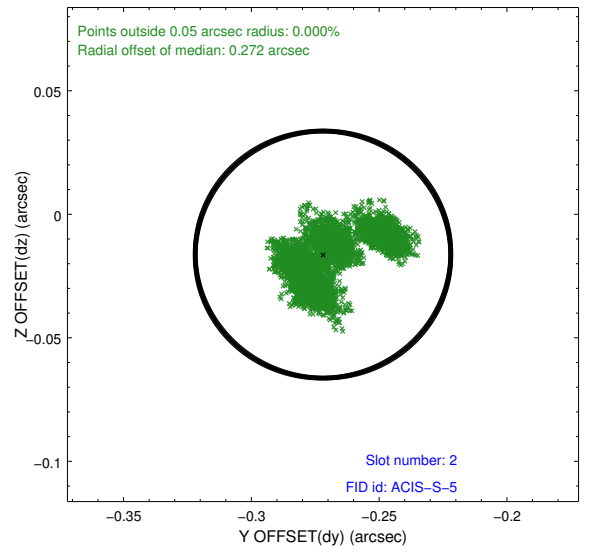
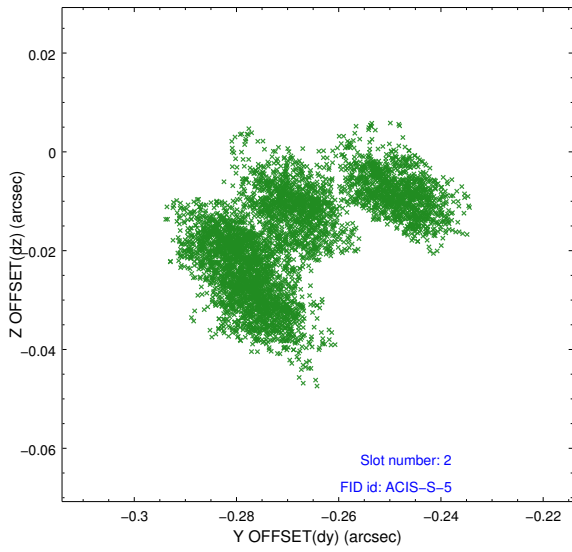
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.866

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

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Joint Proposal: CX0-HST