

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21871 - L2 Version 1
Chandra X-Ray Center

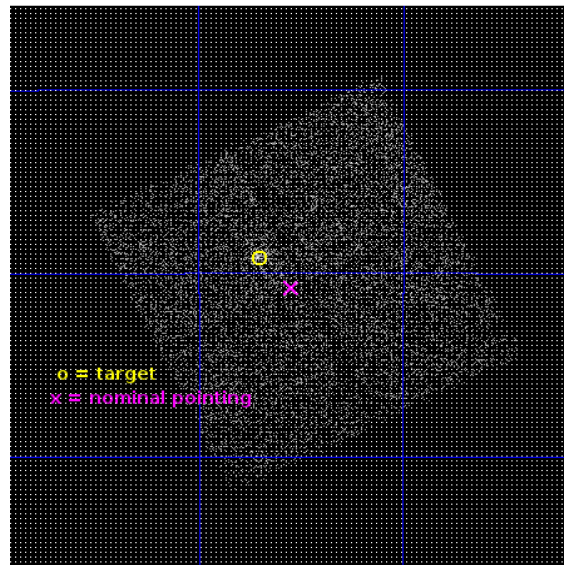
L2 Processing Date : Oct 19 2018

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1 Front

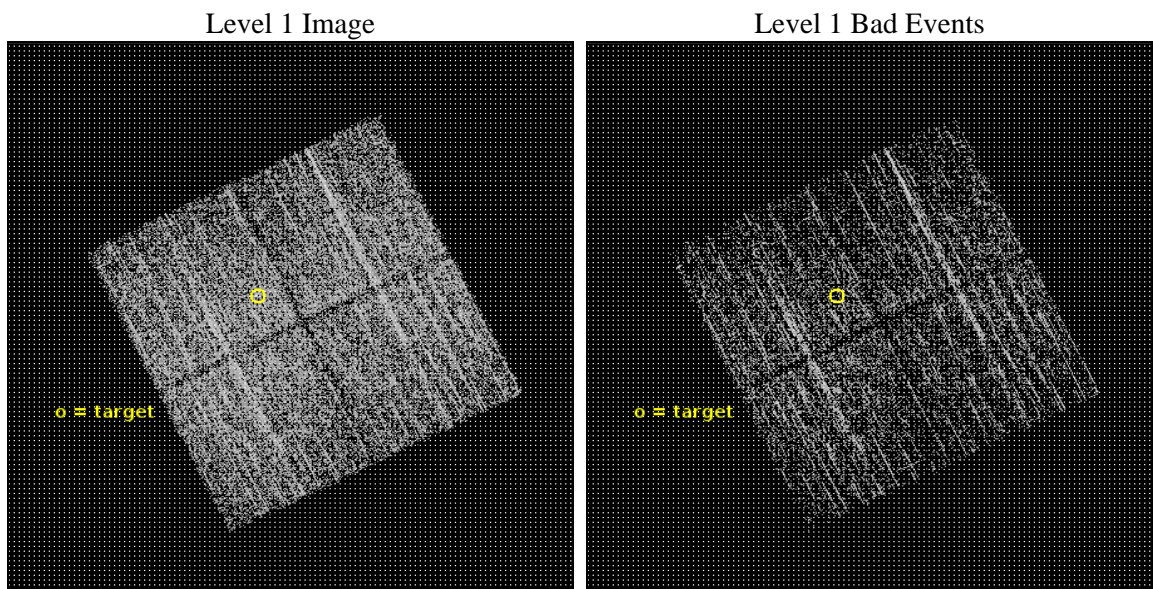
seq_num	503148	Sequence number
obs_id	21871	Observation id
title	The Answer is Blowing in the Wind: Jet Sweepback in Three PWNe	Pro
observer	Roger Romani	Principal investigator
object	PSR J1709-4429	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.42494	Observer's specified target RA [deg]
dec_targ	-44.486848	Observer's specified target Dec [deg]
ra_nom	257.38653018679	Nominal RA [deg]
dec_nom	-44.513215912464	Nominal Dec [deg]
roll_nom	243.6817887673	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2841.8191843033	Sum of GTIs [s]
livetime	2804.6887245435	Livetime [s]
ontime0	2841.696064353	Sum of GTIs [s]
ontime1	2841.7371042967	Sum of GTIs [s]
ontime2	2838.6371542215	Sum of GTIs [s]
ontime3	2841.8191843033	Sum of GTIs [s]
l2events	10372	Number of level 2 events



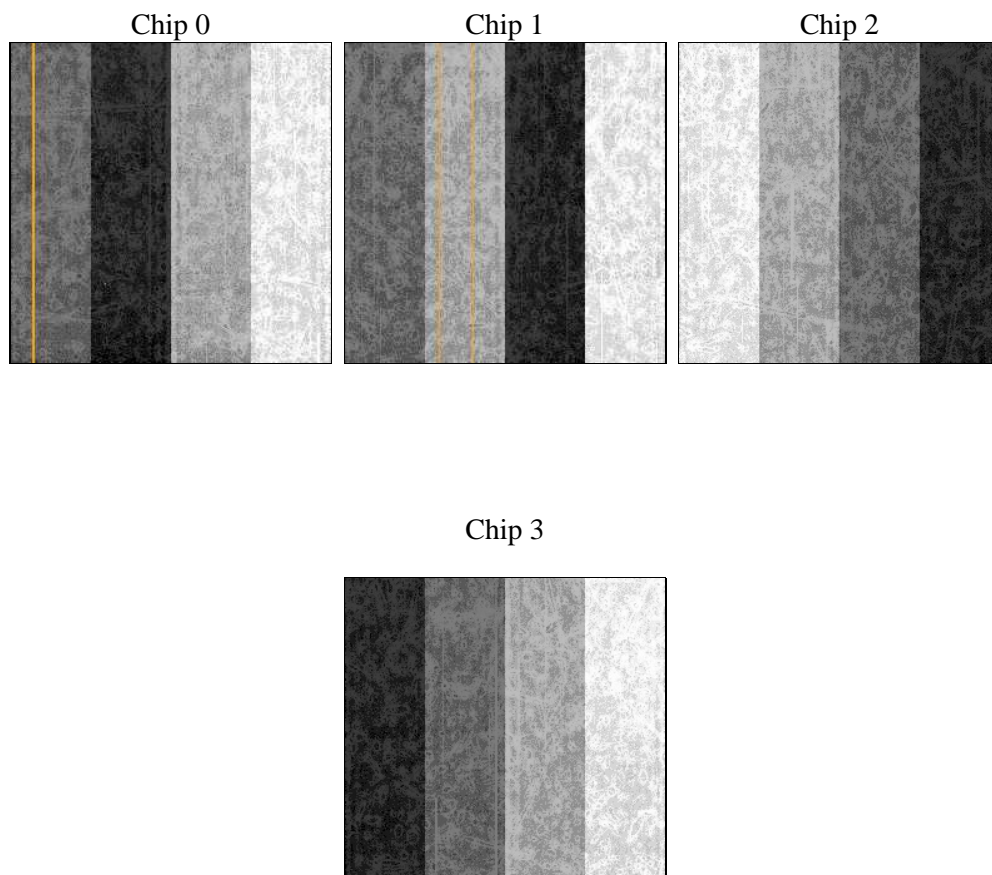
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	55000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	2841.8191843033	Sum of GTIs [s]
caldsver	4.8.0	 	ontime0	2841.696064353	Sum of GTIs [s]
date	2018-10-20T00:44:04	Date and time of file creation	ontime1	2841.7371042967	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	2838.6371542215	Sum of GTIs [s]
			ontime3	2841.8191843033	Sum of GTIs [s]
			l1events	84474	Number of level 1 events

2.1.4 Events

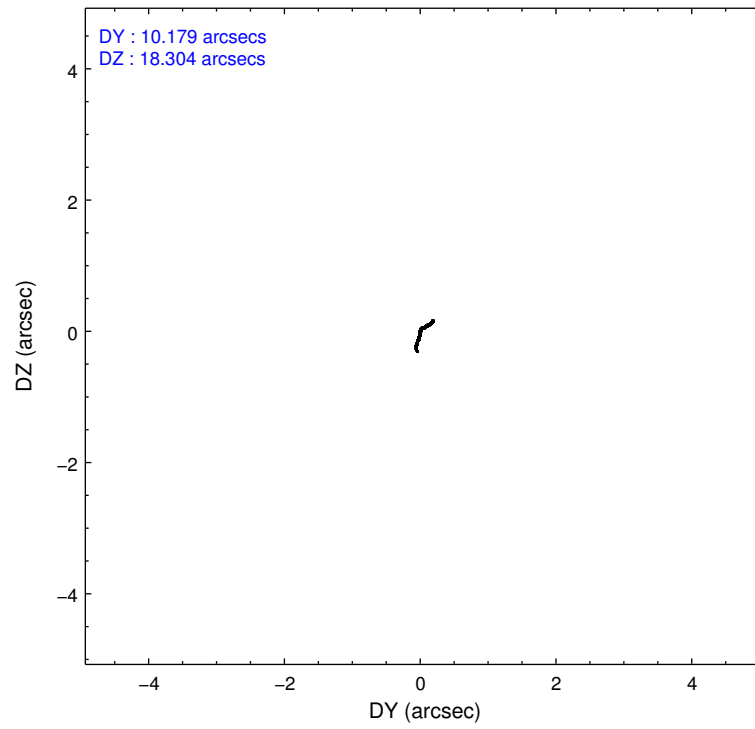
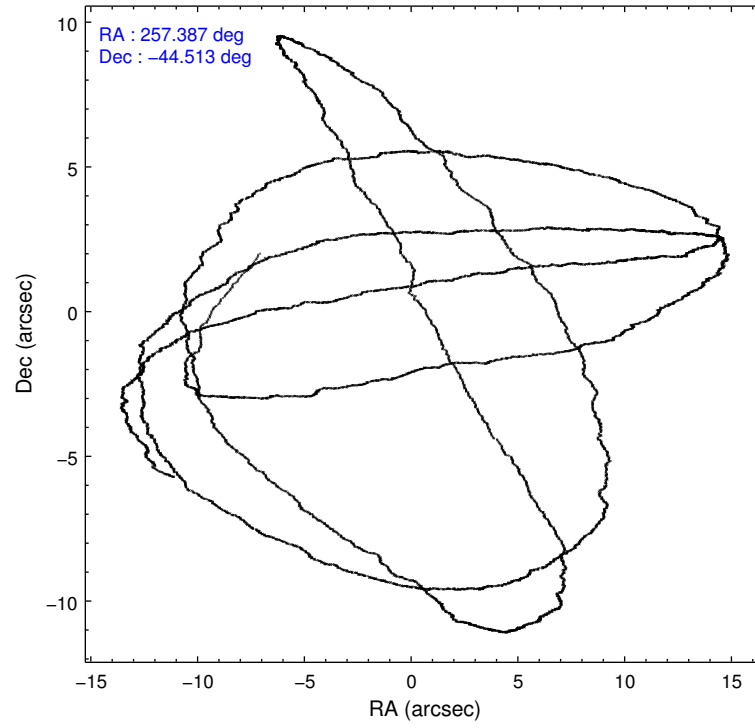
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	20972	20412	21328	21762
rejected events	18051	16868	18665	18707
rejected %	86%	82%	87%	85%

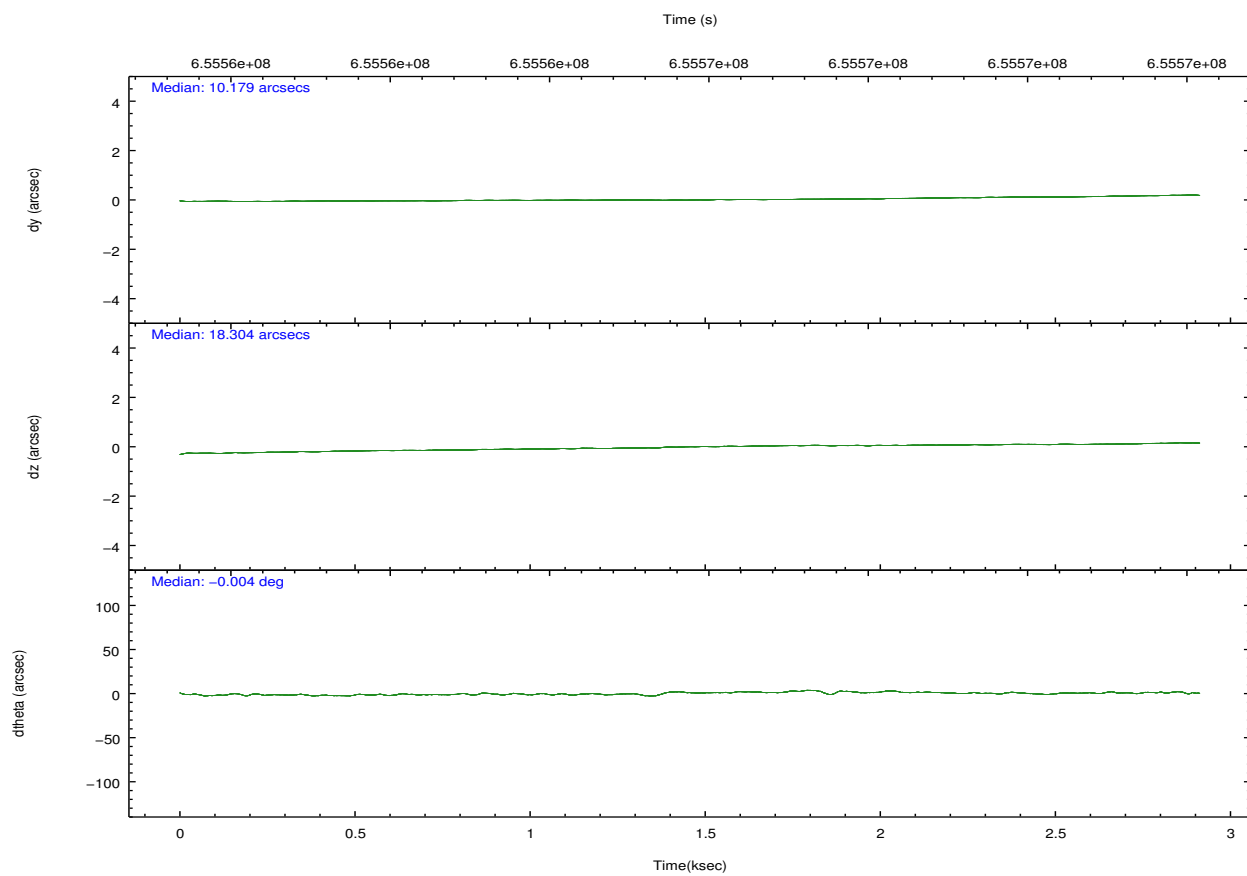
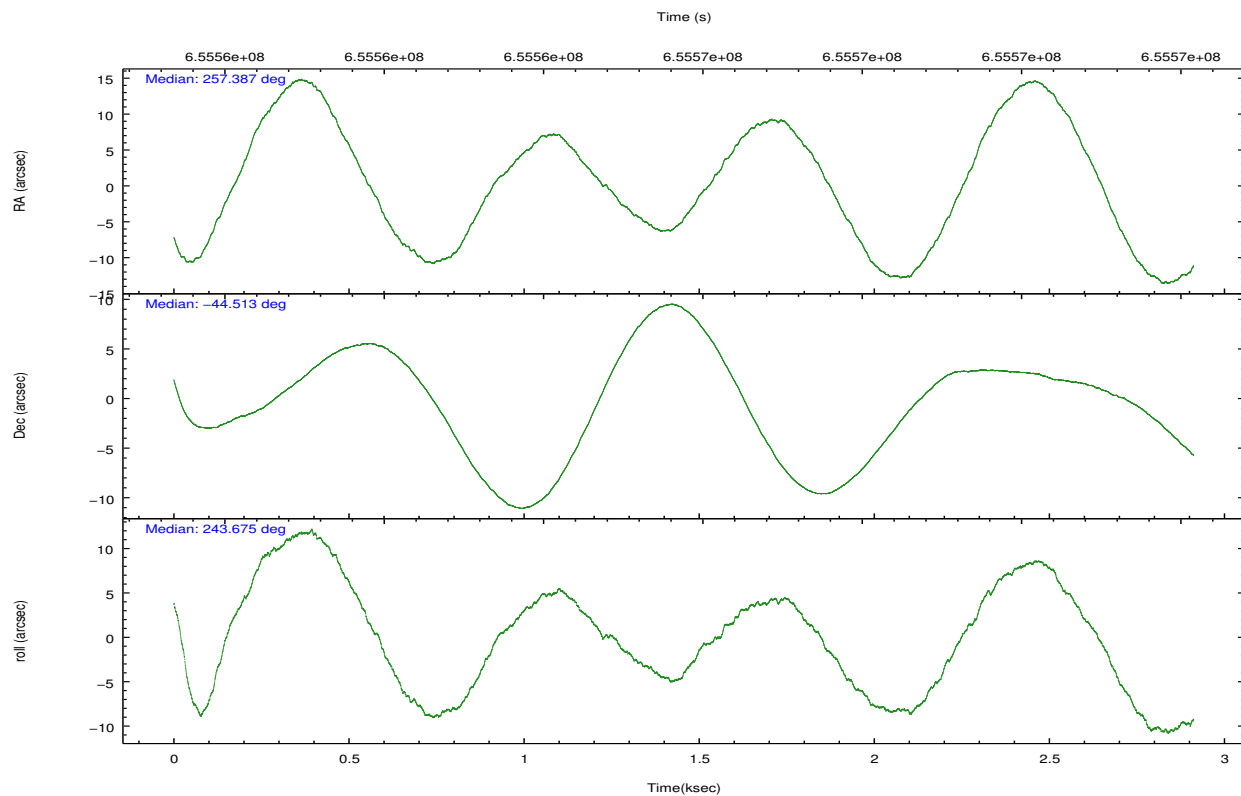
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1233	1506	1066	1437
	5%	7%	4%	6%
grade 1 events	13	15	15	10
	0%	0%	0%	0%
grade 2 events	726	820	589	613
	3%	4%	2%	2%
grade 3 events	248	288	263	253
	1%	1%	1%	1%
grade 4 events	261	299	265	255
	1%	1%	1%	1%
grade 5 events	996	937	888	1070
	4%	4%	4%	4%
grade 6 events	492	663	511	522
	2%	3%	2%	2%
grade 7 events	17003	15884	17731	17602
	81%	77%	83%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	257.383908	257.3865301867944	Subarray requested	NONE	NONE
[deg] Pointing Dec	-44.485767	-44.51321591246376	Alternating exposures requested	N	N
[deg] Pointing Roll	243.471246	243.6817887672964	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	655564129.184000	655562881.59541			
Observation start date	2018-10-10T13:07:40	2018-10-10T12:48:01			
[s] Observation end time (MET)	655619129.184000	655566914.45815			
Observation end date	2018-10-11T04:24:20	2018-10-10T13:55:14			
Read mode	TIMED	TIMED			

2.3 Aspect



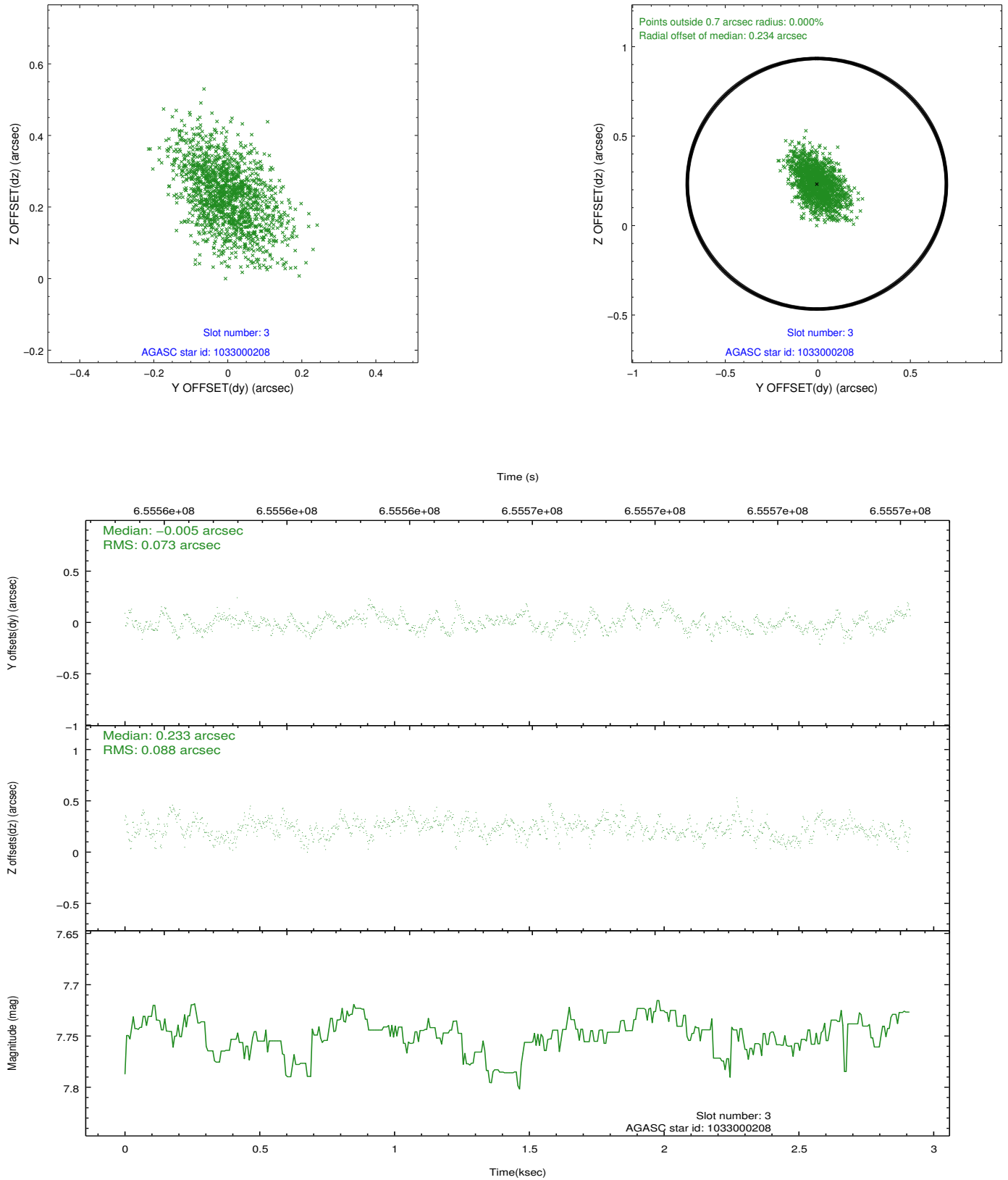


Slot Statistics

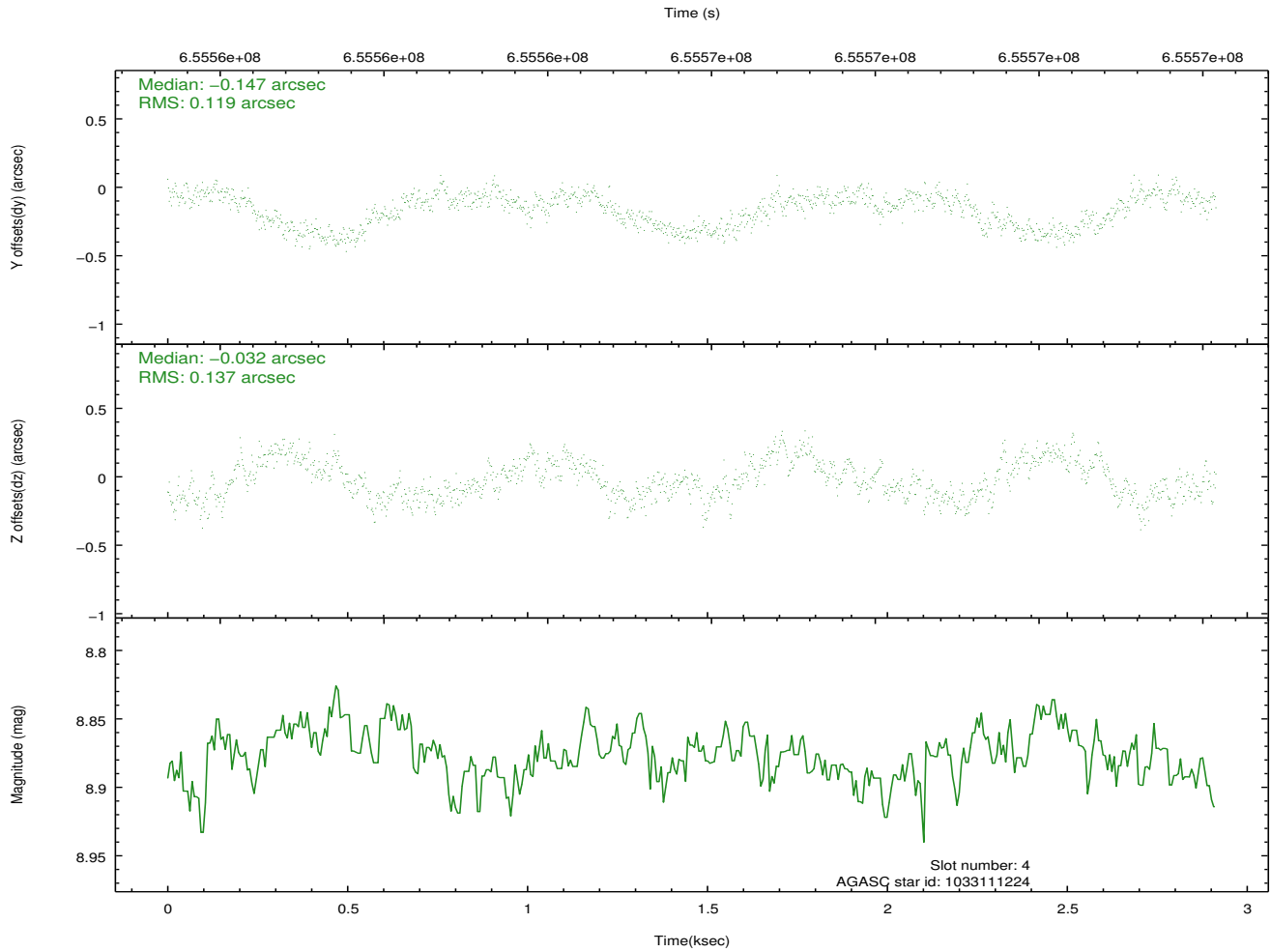
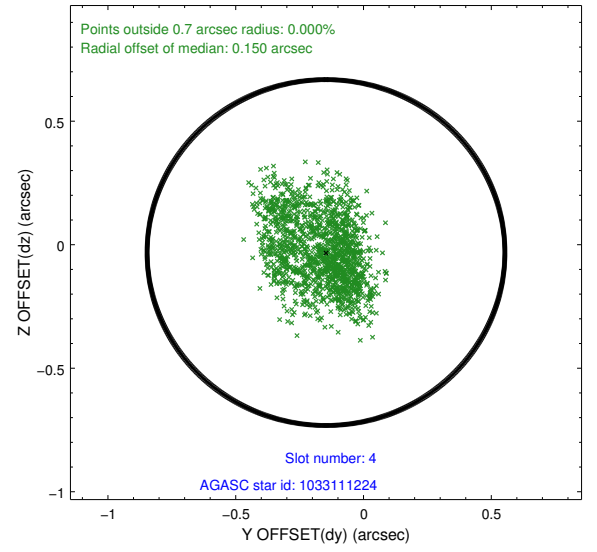
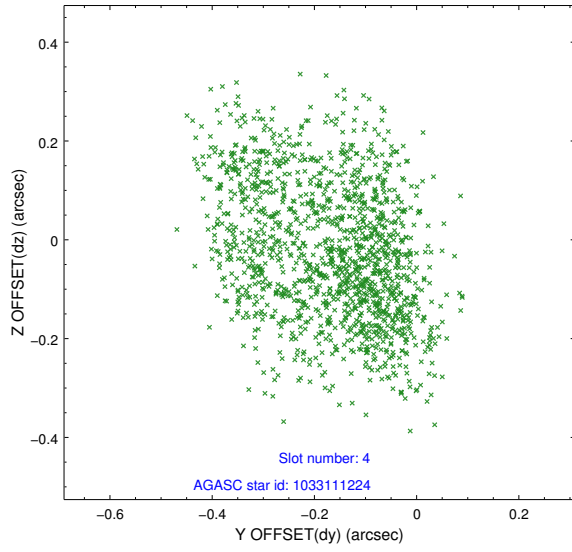
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.03	711	1.000	-0.202	-0.026	0.021	0.031	0.000000	0.000000	-764.97	-848
1	FID		ACIS-I-4	7.07	711	1.000	0.368	0.116	0.012	0.017	0.000000	0.000000	2148.60	1056
2	FID		ACIS-I-5	7.11	711	1.000	-0.267	-0.022	0.015	0.023	0.000000	0.000000	-1816.09	1057
3	GUIDE	used	1033000208	7.75	1422	1.000	-0.005	0.233	0.121	0.205	256.502750	-44.372681	660.35	-2204
4	GUIDE	used	1033111224	8.88	1420	1.000	-0.147	-0.032	0.199	0.301	257.844751	-44.847109	642.40	1633
5	GUIDE	used	1091569256	8.37	1421	1.000	-0.075	-0.202	0.116	0.188	257.146819	-45.037377	2048.09	349
6	GUIDE	used	1032978936	8.96	1420	1.000	0.327	0.031	0.140	0.228	257.447182	-44.360307	-474.33	-55
7	GUIDE	used	1091578128	8.60	1418	1.000	-0.084	-0.037	0.123	0.207	257.198938	-45.154577	2364.61	656

2.4 Star Slots

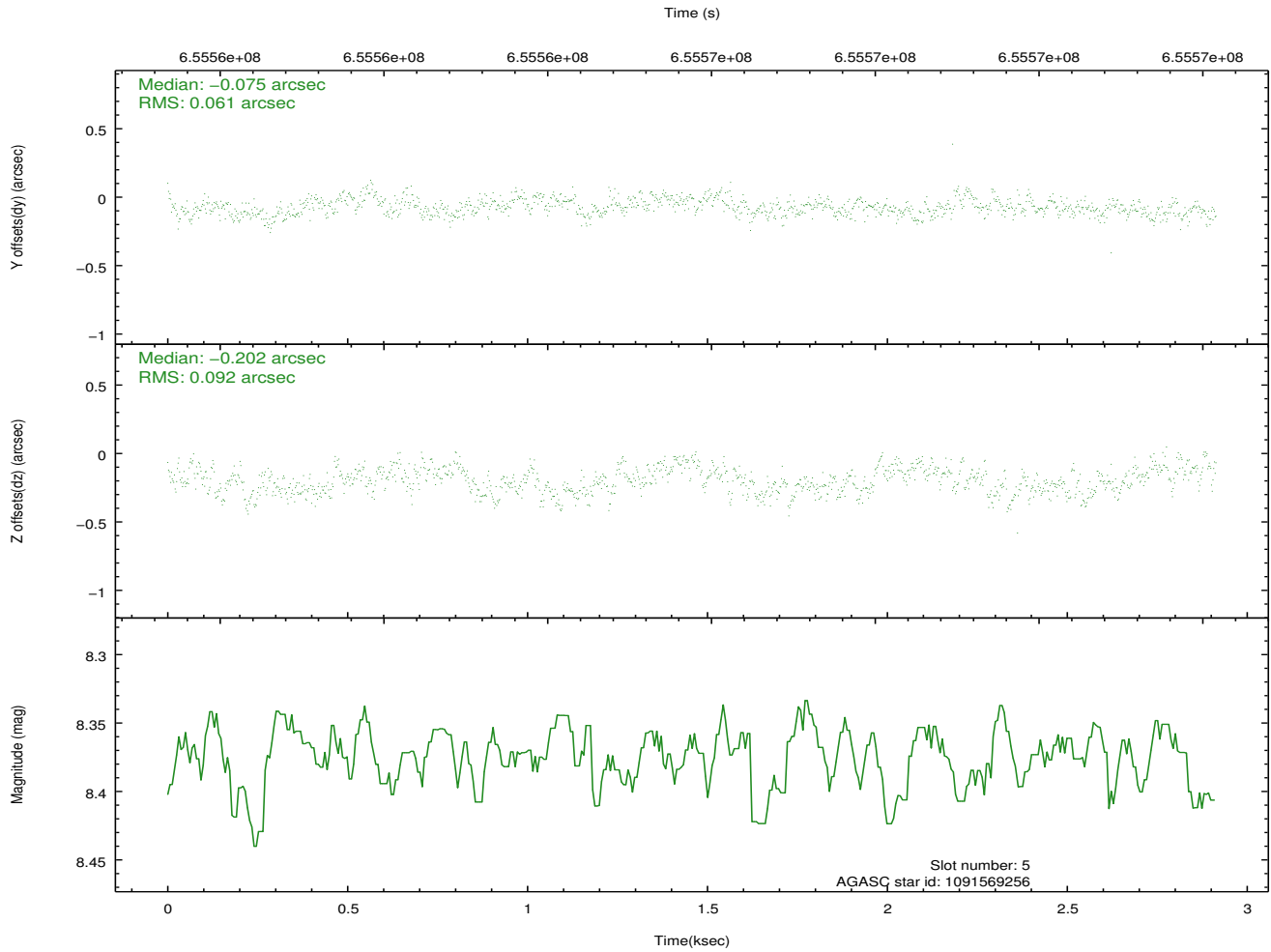
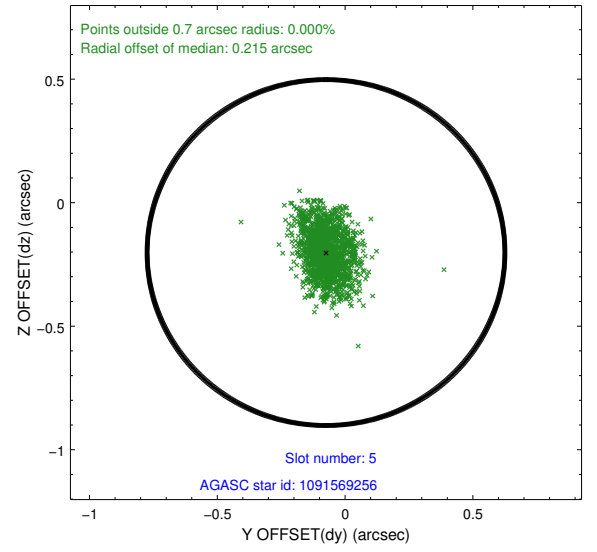
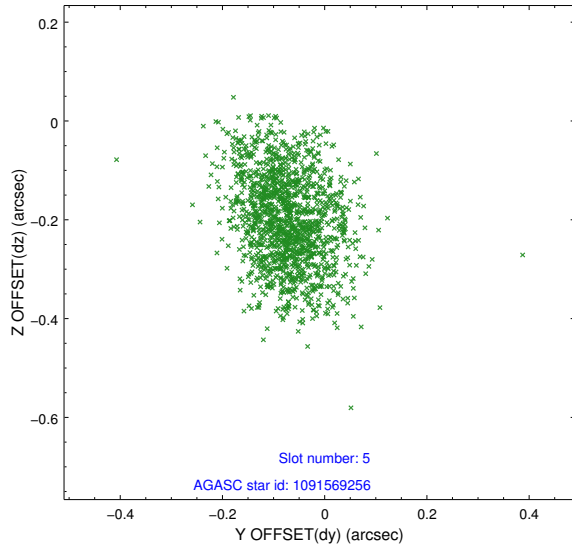
2.4.1 Slot 3



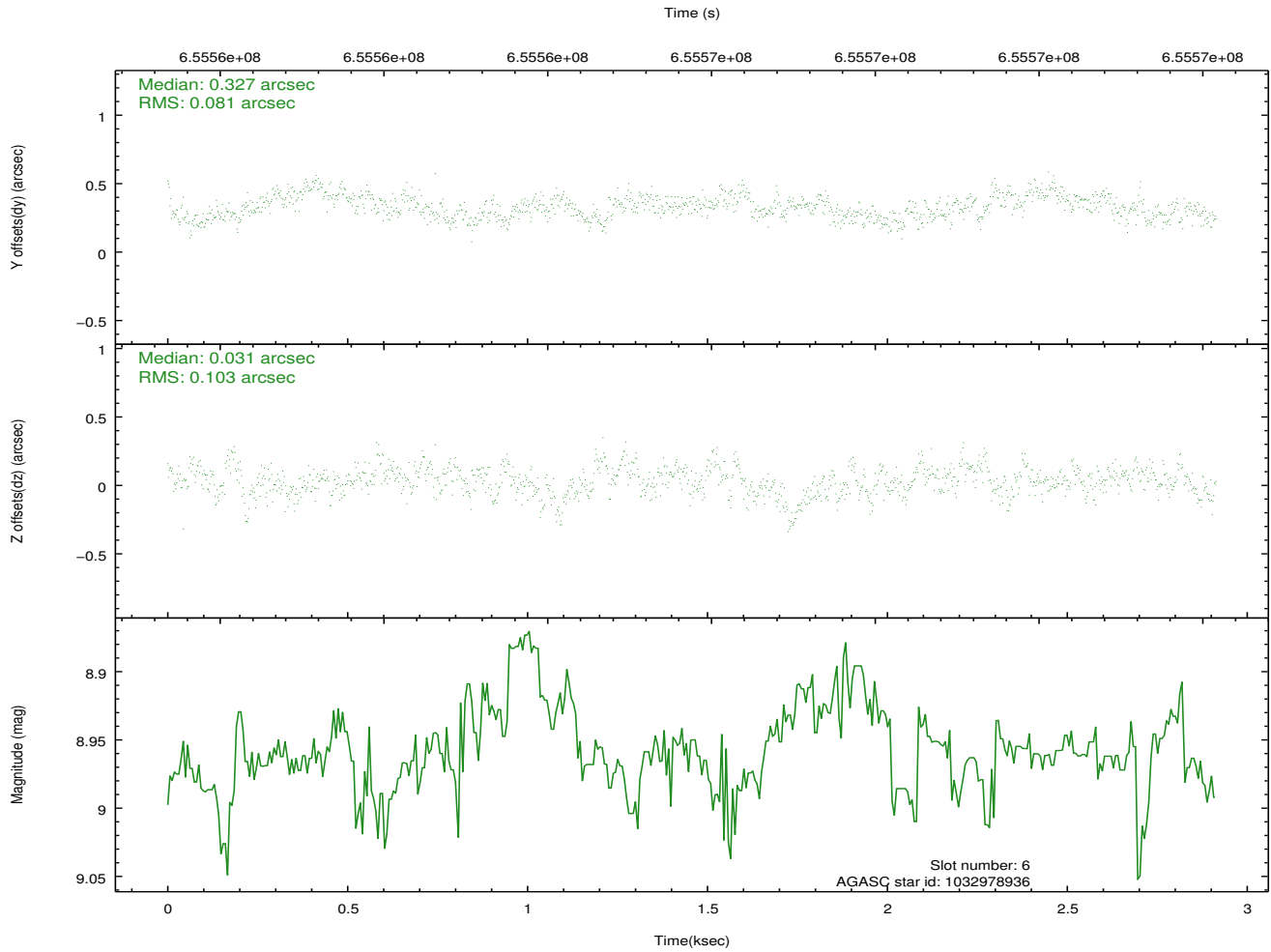
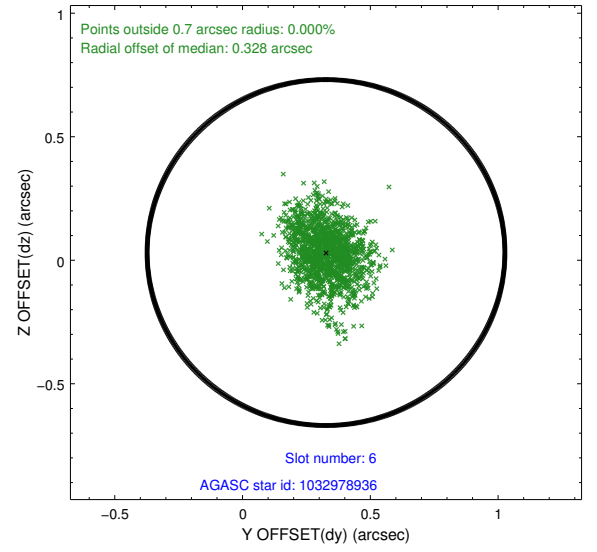
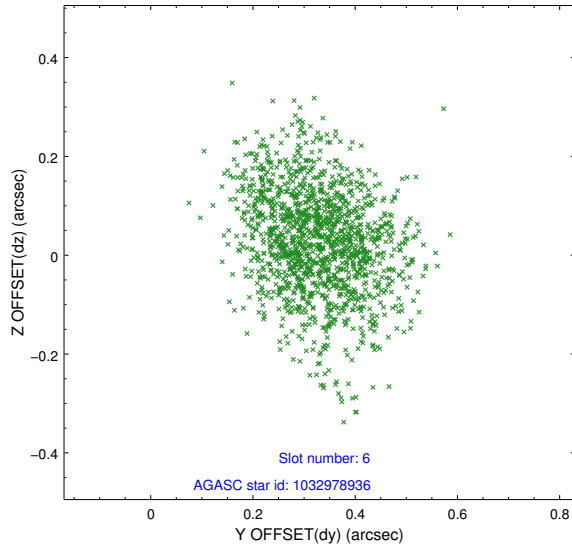
2.4.2 Slot 4



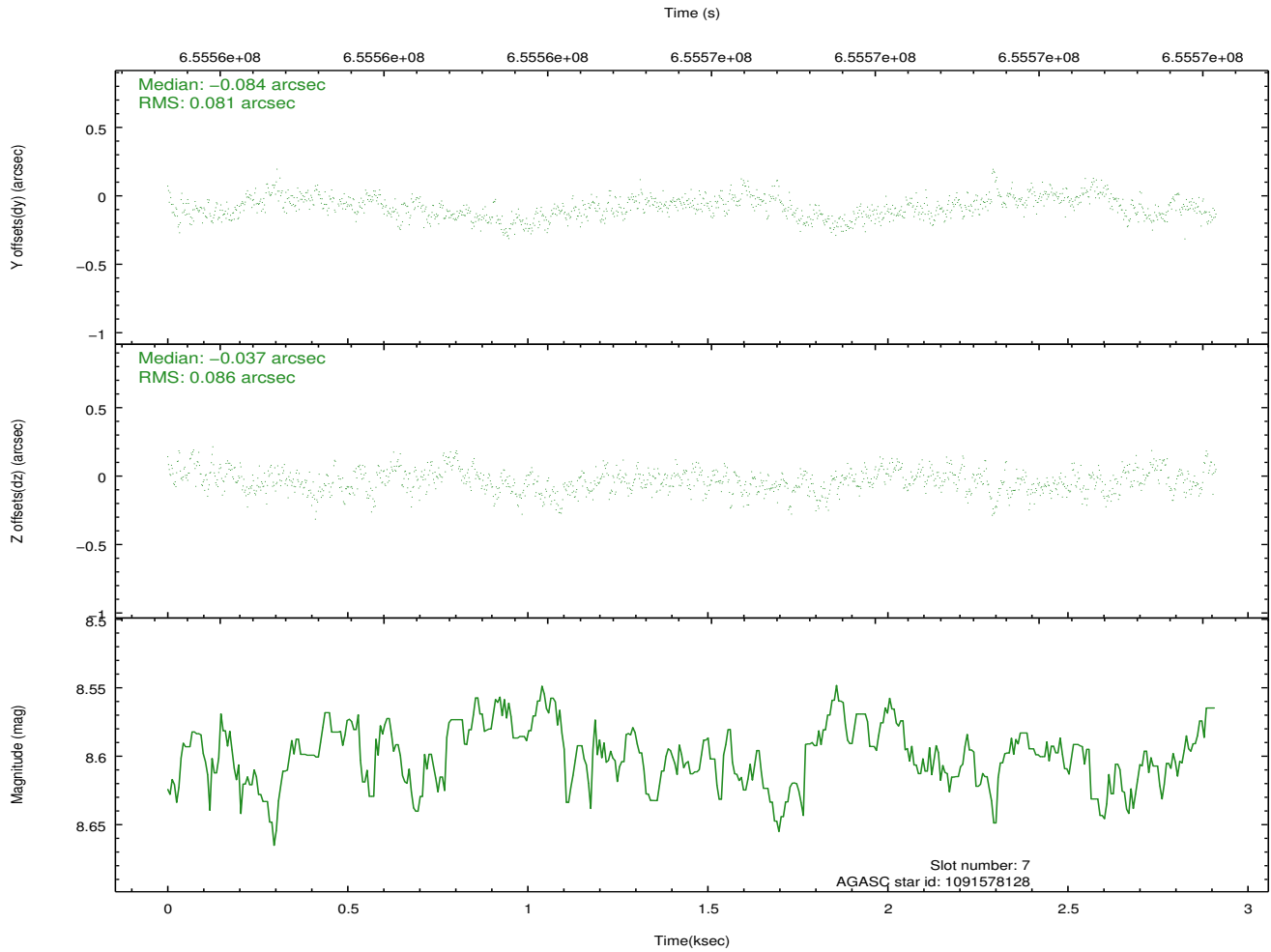
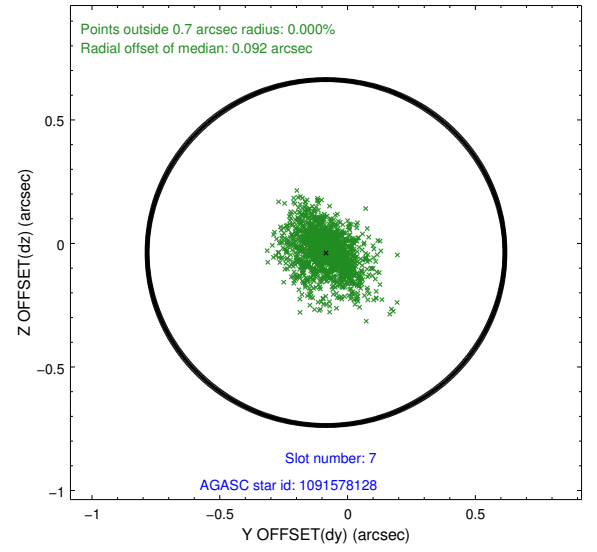
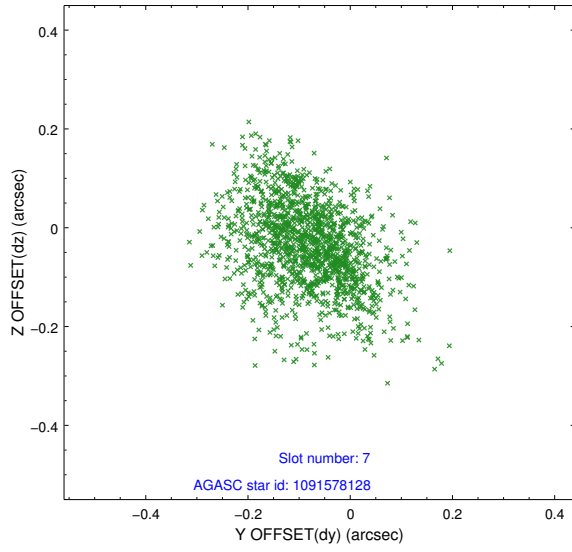
2.4.3 Slot 5



2.4.4 Slot 6

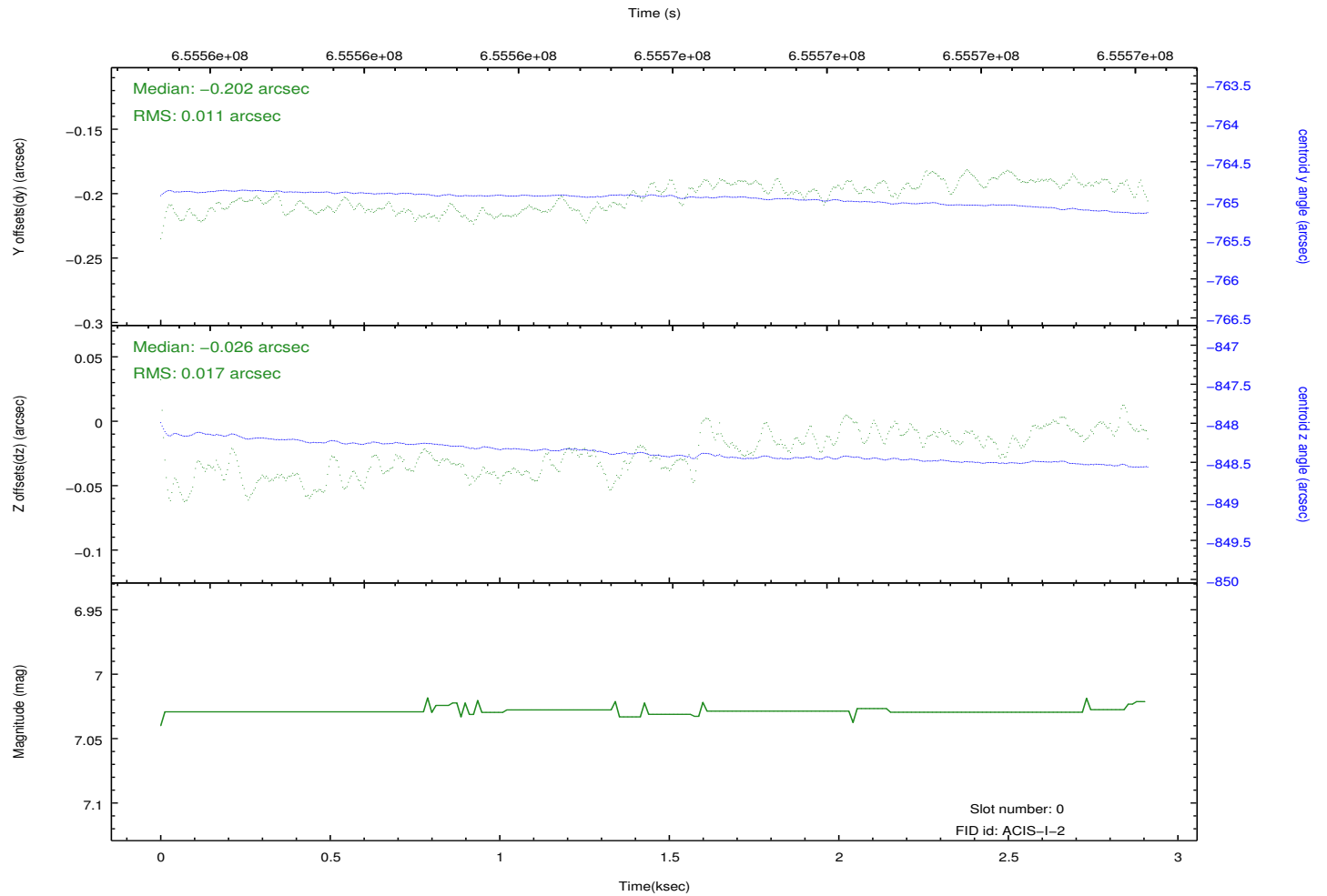
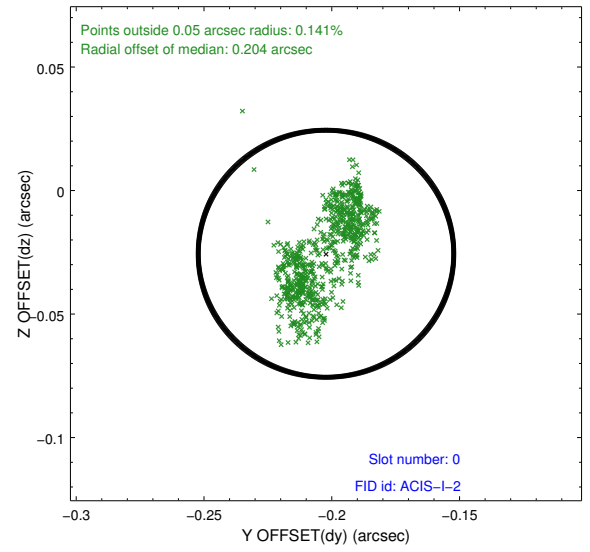
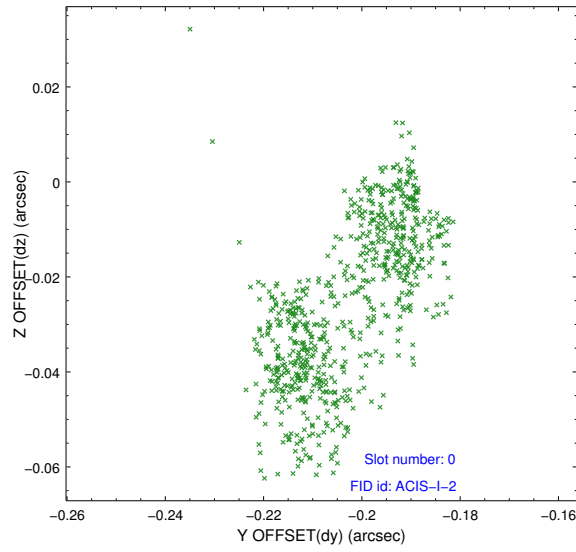


2.4.5 Slot 7

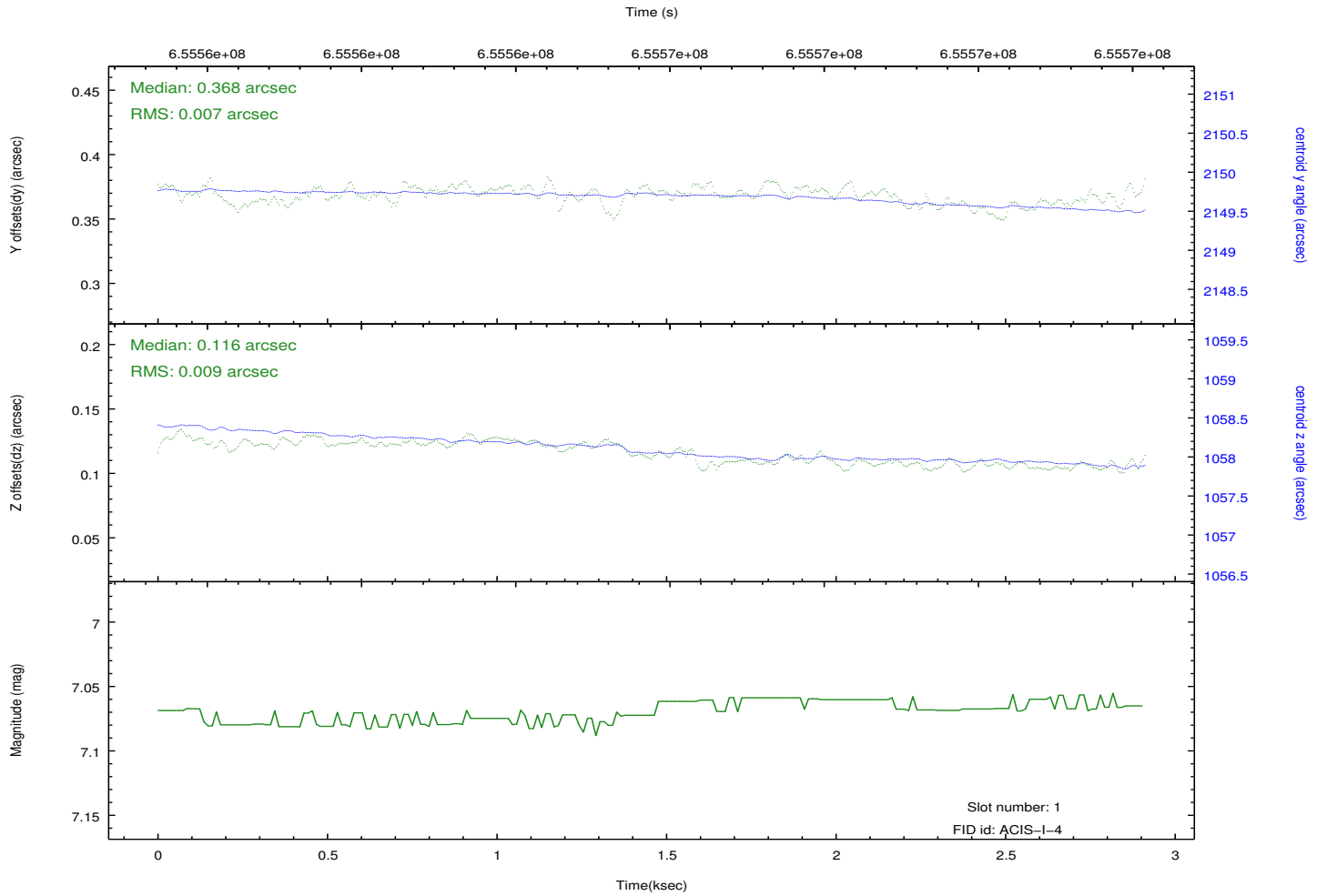
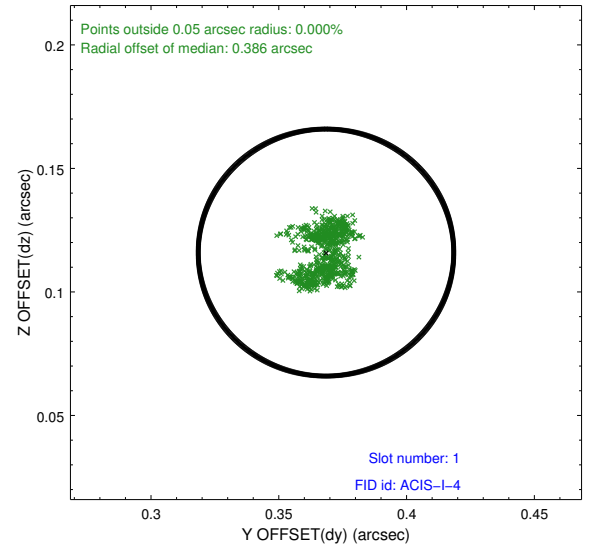
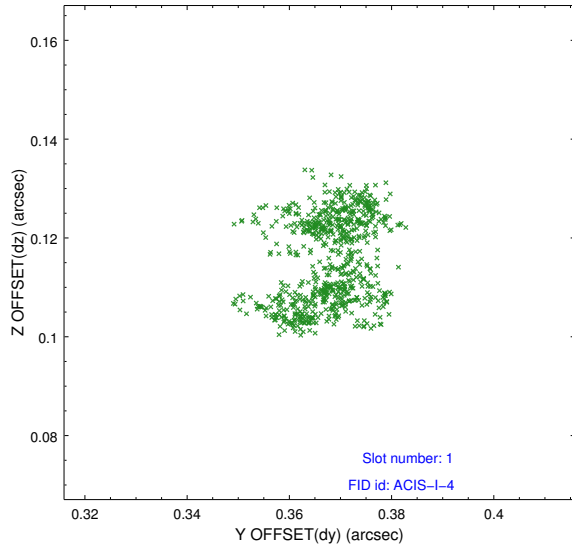


2.5 FID Slots

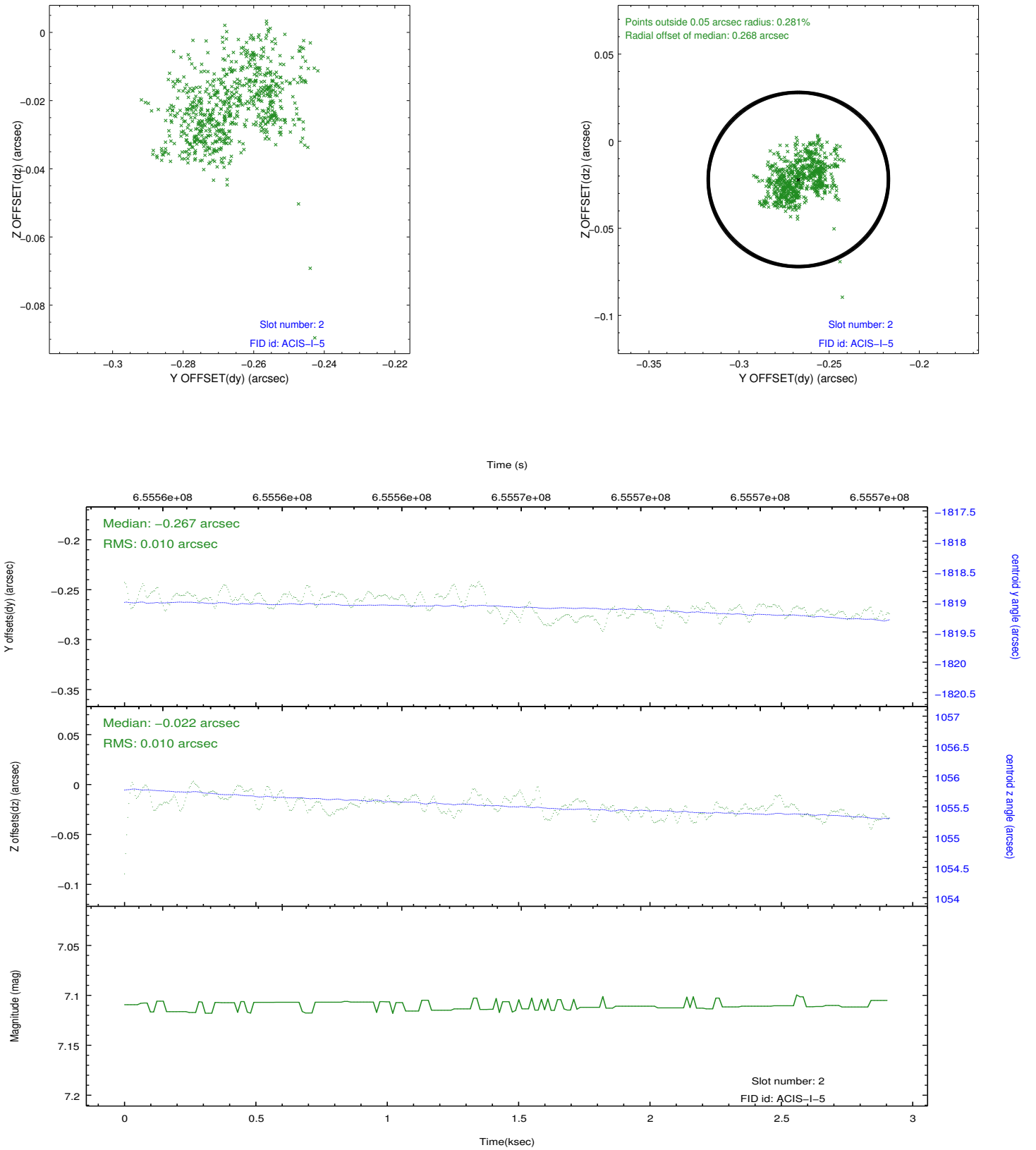
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8418191843033

A.2 Comments

This obsid was terminated by a gyro anomaly. The data included in this processing do not include any of the anomalous data. The remainder of the time allotted to this obsid will be rescheduled.