

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22033 - L2 Version 1
Chandra X-Ray Center

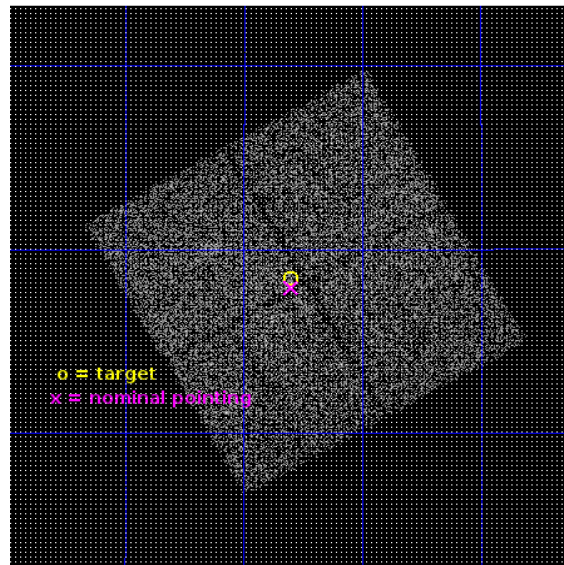
L2 Processing Date : Jan 7 2019

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1 Front

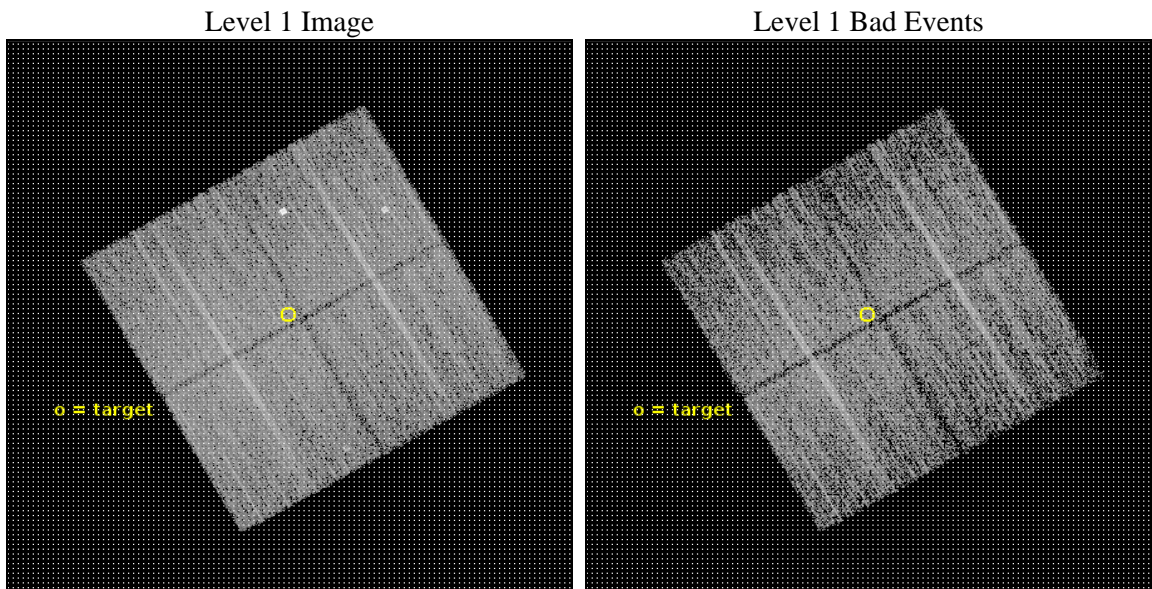
seq_num	201224	Sequence number
obs_id	22033	Observation id
title	Filling The Missing Link In Stellar Magnetic Activity Evolution	Pr
observer	Konstantin Getman	Principal investigator
object	NGC 1960	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.075	Observer's specified target RA [deg]
dec_targ	34.14	Observer's specified target Dec [deg]
ra_nom	84.074714251481	Nominal RA [deg]
dec_nom	34.131984762803	Nominal Dec [deg]
roll_nom	240.20887897011	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12077.505432606	Sum of GTIs [s]
livetime	11919.703932799	Livetime [s]
ontime0	12077.382312655	Sum of GTIs [s]
ontime1	12074.28230238	Sum of GTIs [s]
ontime2	12077.464392662	Sum of GTIs [s]
ontime3	12077.505432606	Sum of GTIs [s]
l2events	31379	Number of level 2 events



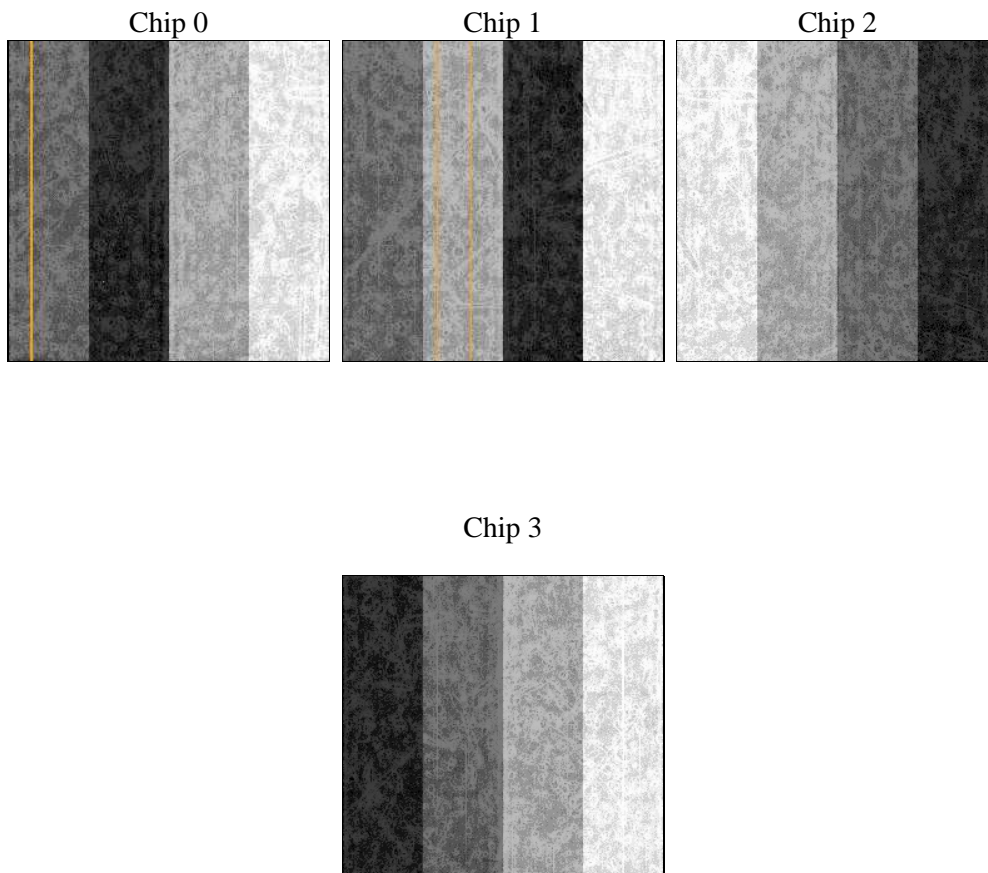
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	12077.505432606	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	12077.382312655	Sum of GTIs [s]
date	2019-01-07T14:28:14	Date and time of file creation	ontime1	12074.28230238	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	12077.464392662	Sum of GTIs [s]
			ontime3	12077.505432606	Sum of GTIs [s]
			l1events	330251	Number of level 1 events

2.1.4 Events

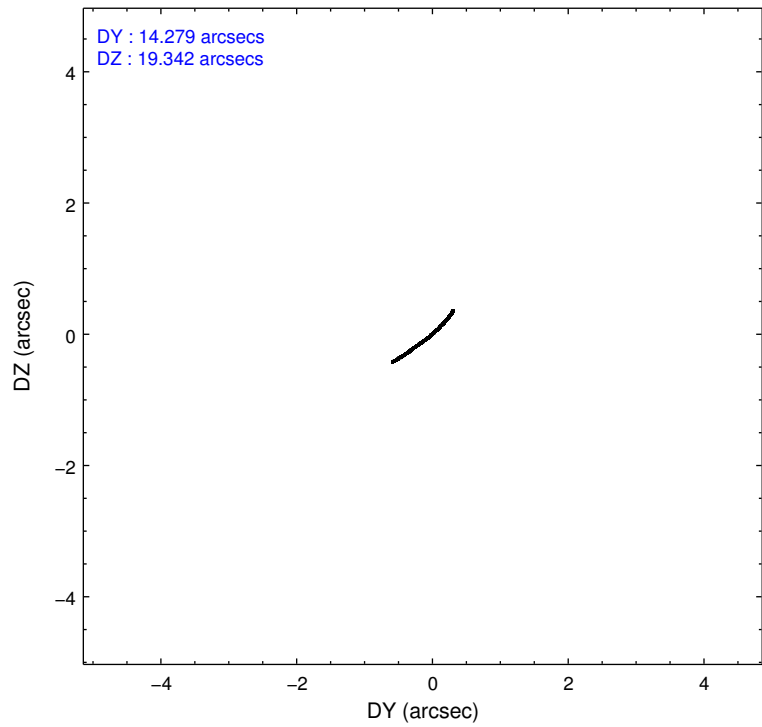
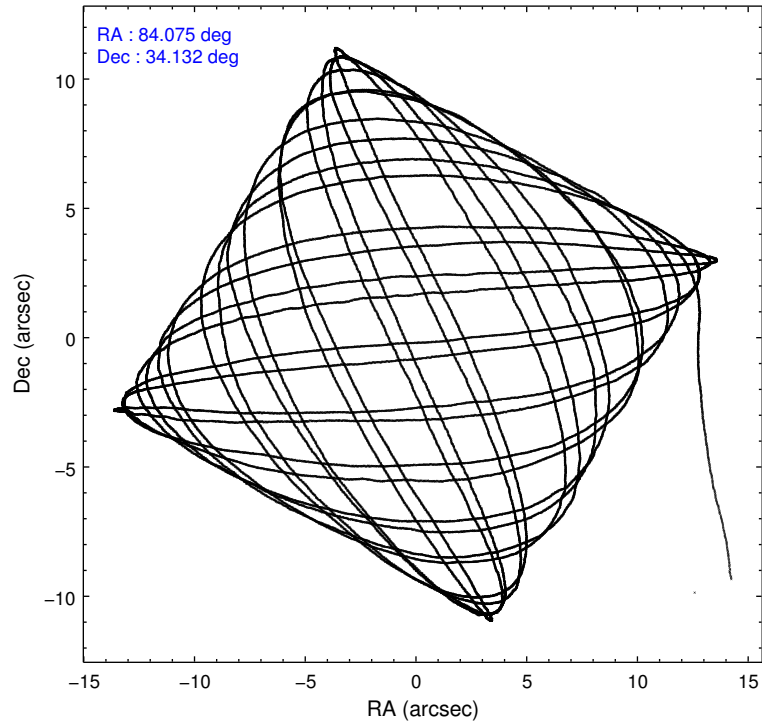
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	77337	83421	86150	83343
rejected events	67933	68819	76660	74203
rejected %	87%	82%	88%	89%

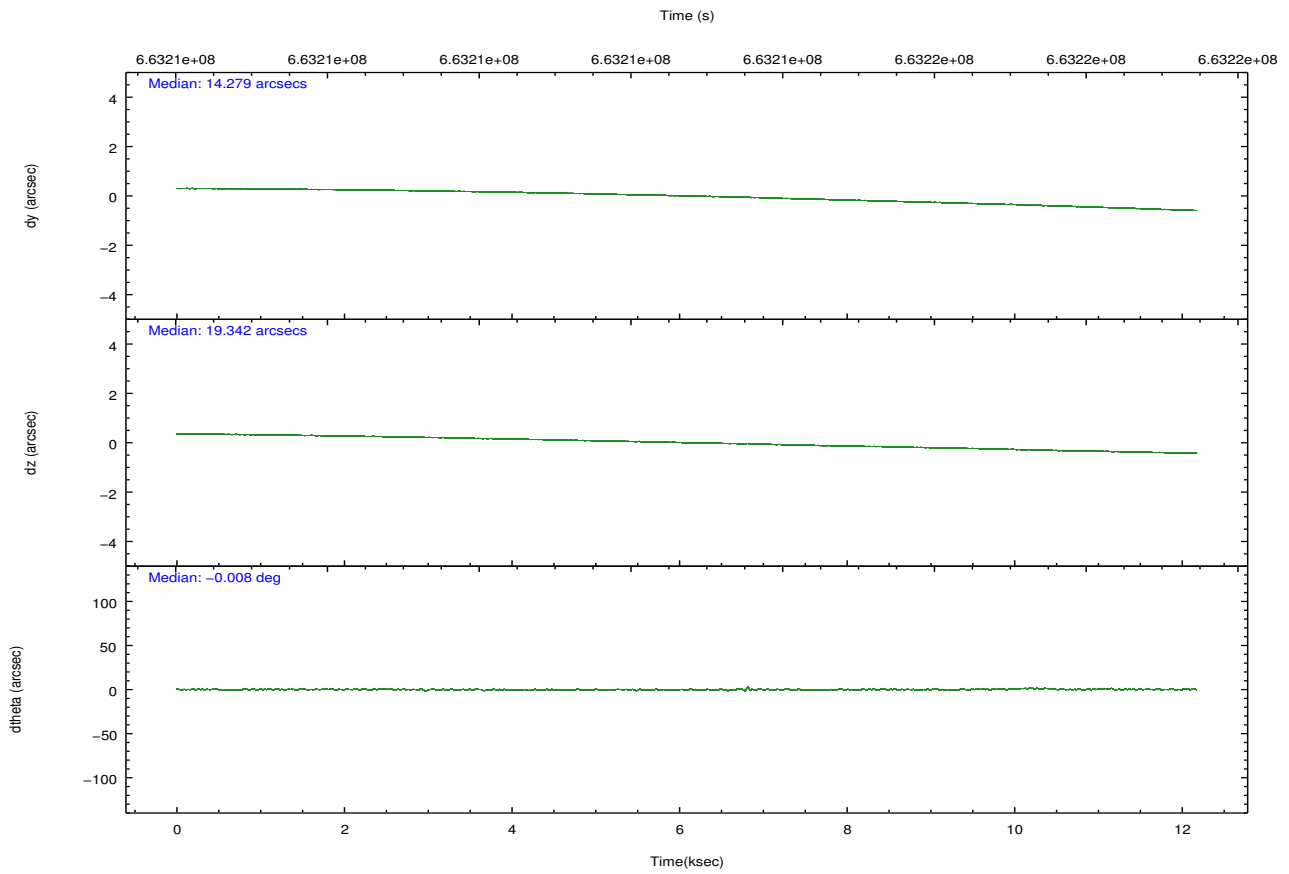
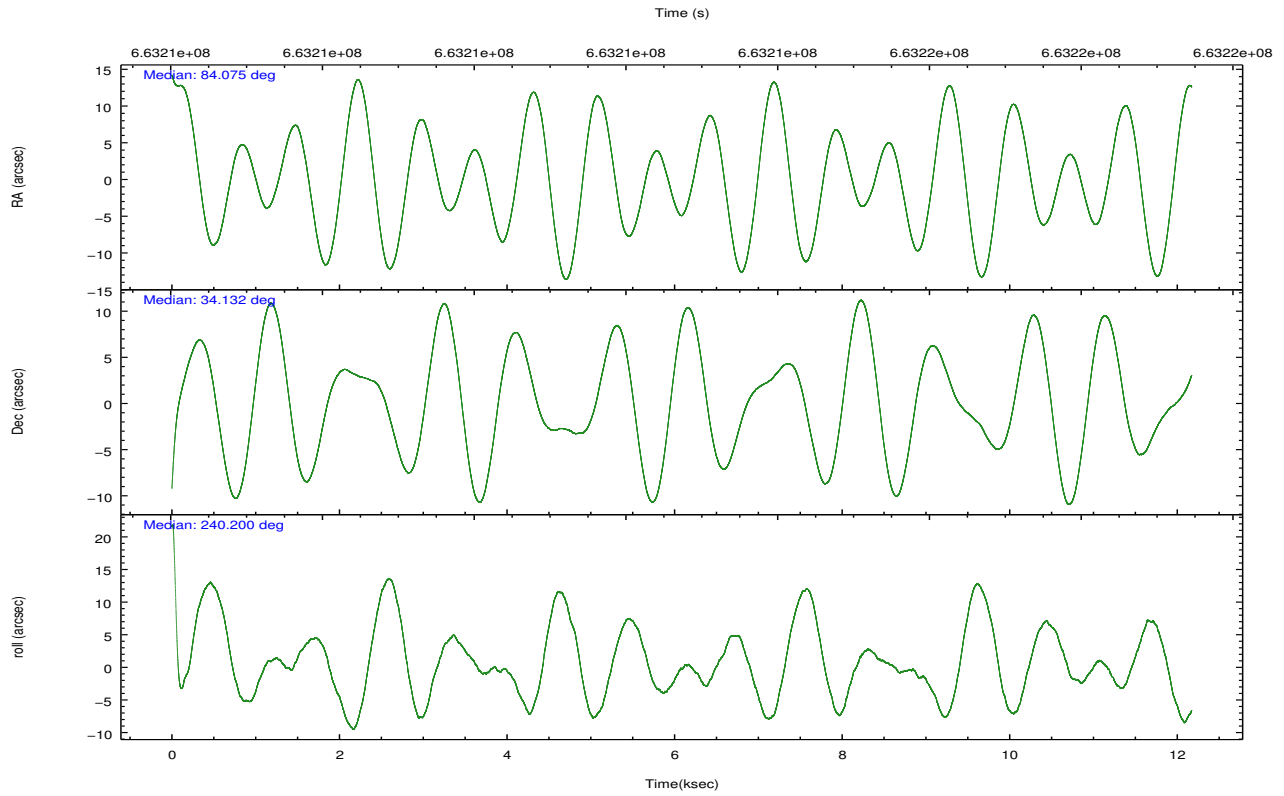
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3438	4487	3807	3473
	4%	5%	4%	4%
grade 1 events	47	61	53	53
	0%	0%	0%	0%
grade 2 events	2272	6132	2173	2020
	2%	7%	2%	2%
grade 3 events	951	901	905	896
	1%	1%	1%	1%
grade 4 events	871	885	878	916
	1%	1%	1%	1%
grade 5 events	3144	3154	2785	3524
	4%	3%	3%	4%
grade 6 events	1880	2205	1731	1839
	2%	2%	2%	2%
grade 7 events	64734	65596	73818	70622
	83%	78%	85%	84%

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	84.074418	84.07471425148135	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.159586	34.13198476280263	Alternating exposures requested	N	N
[deg] Pointing Roll	240.000329	240.2088789701074	[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)	663206816.184000	663205934.54307			
Observation start date	2019-01-07T00:05:47	2019-01-06T23:52:14			
[s] Observation end time (MET)	663218816.184000	663219221.61886			
Observation end date	2019-01-07T03:25:47	2019-01-07T03:33:41			
Read mode	TIMED	TIMED			

2.3 Aspect





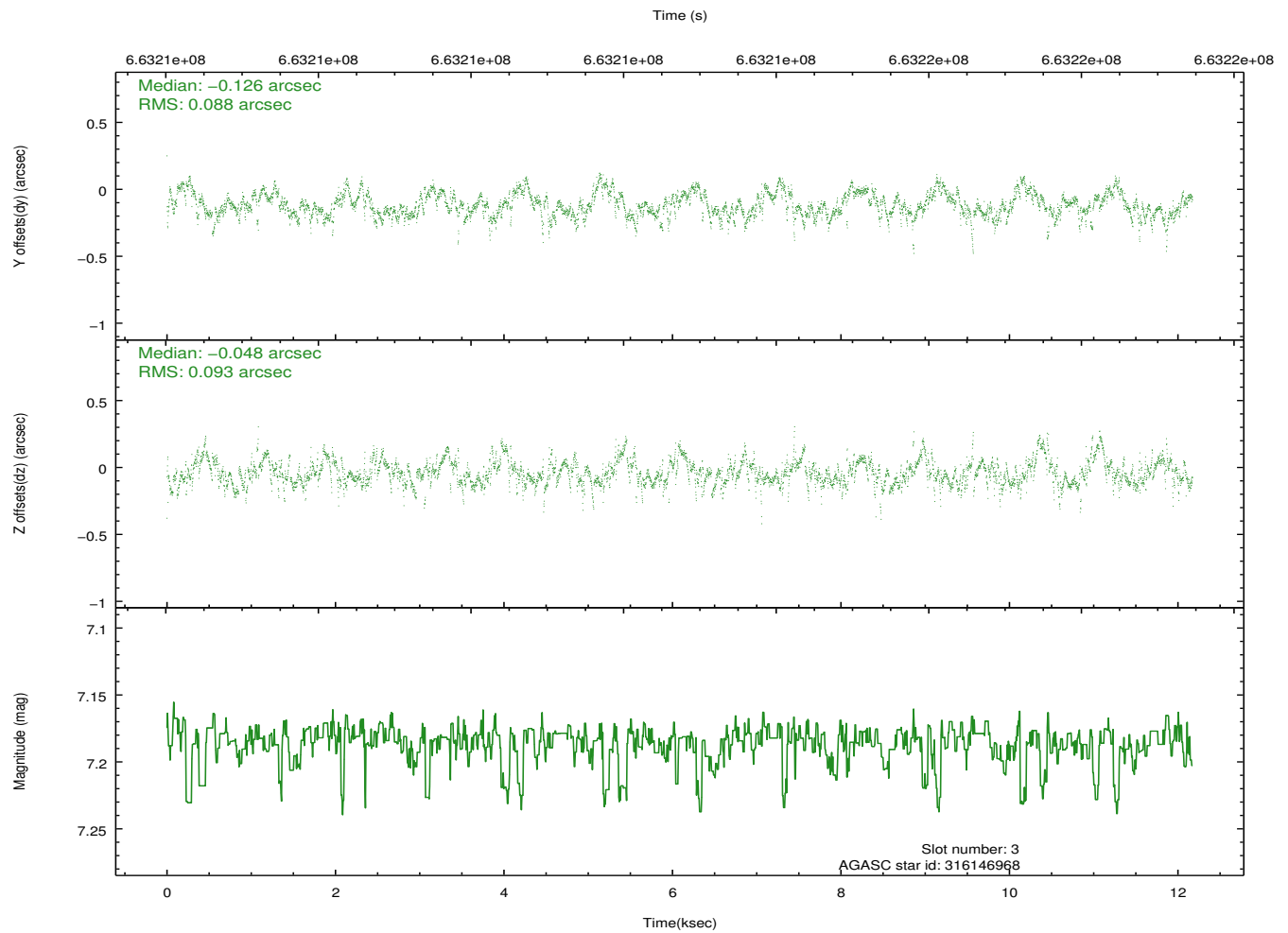
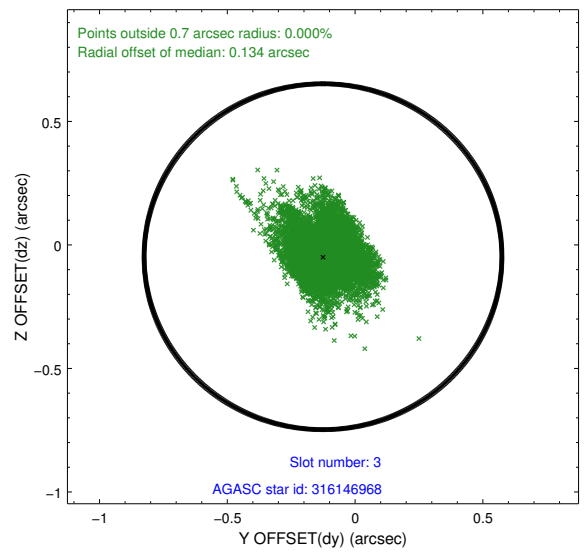
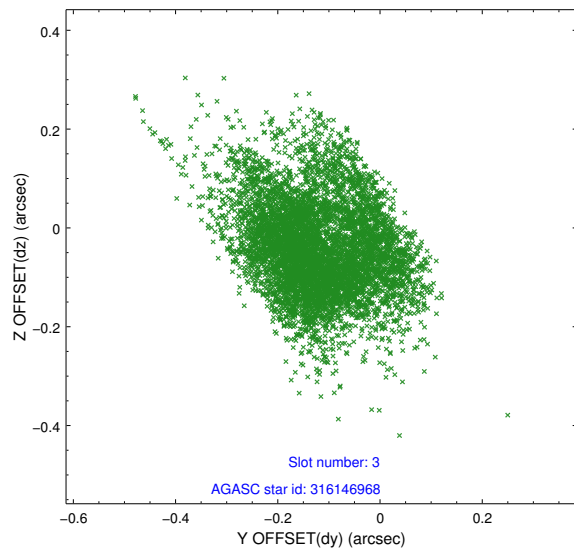
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	2969	1.000	0.067	-0.056	0.008	0.014	0.000000	0.000000	925.40	-843
1	FID		ACIS-I-5	7.21	2969	1.000	-0.493	-0.018	0.008	0.013	0.000000	0.000000	-1823.24	1054
2	FID		ACIS-I-6	7.22	2969	1.000	0.335	0.143	0.011	0.017	0.000000	0.000000	390.50	1699
3	GUIDE	used	316146968	7.18	5939	1.000	-0.126	-0.048	0.134	0.221	85.013487	34.289009	-1811.11	2179
4	GUIDE	used	316154696	8.93	5932	1.000	-0.055	0.156	0.186	0.292	85.011245	34.394890	-2136.27	1980
5	GUIDE	used	316155560	8.34	5936	1.000	-0.003	0.073	0.126	0.206	83.723134	34.282728	137.46	-1126
6	GUIDE	used	316156896	7.36	5936	1.000	-0.076	0.073	0.101	0.170	83.543505	34.217630	606.67	-1474
7	GUIDE	used	316027440	9.02	5928	1.000	0.261	-0.254	0.188	0.334	83.112095	33.895491	2250.86	-2021

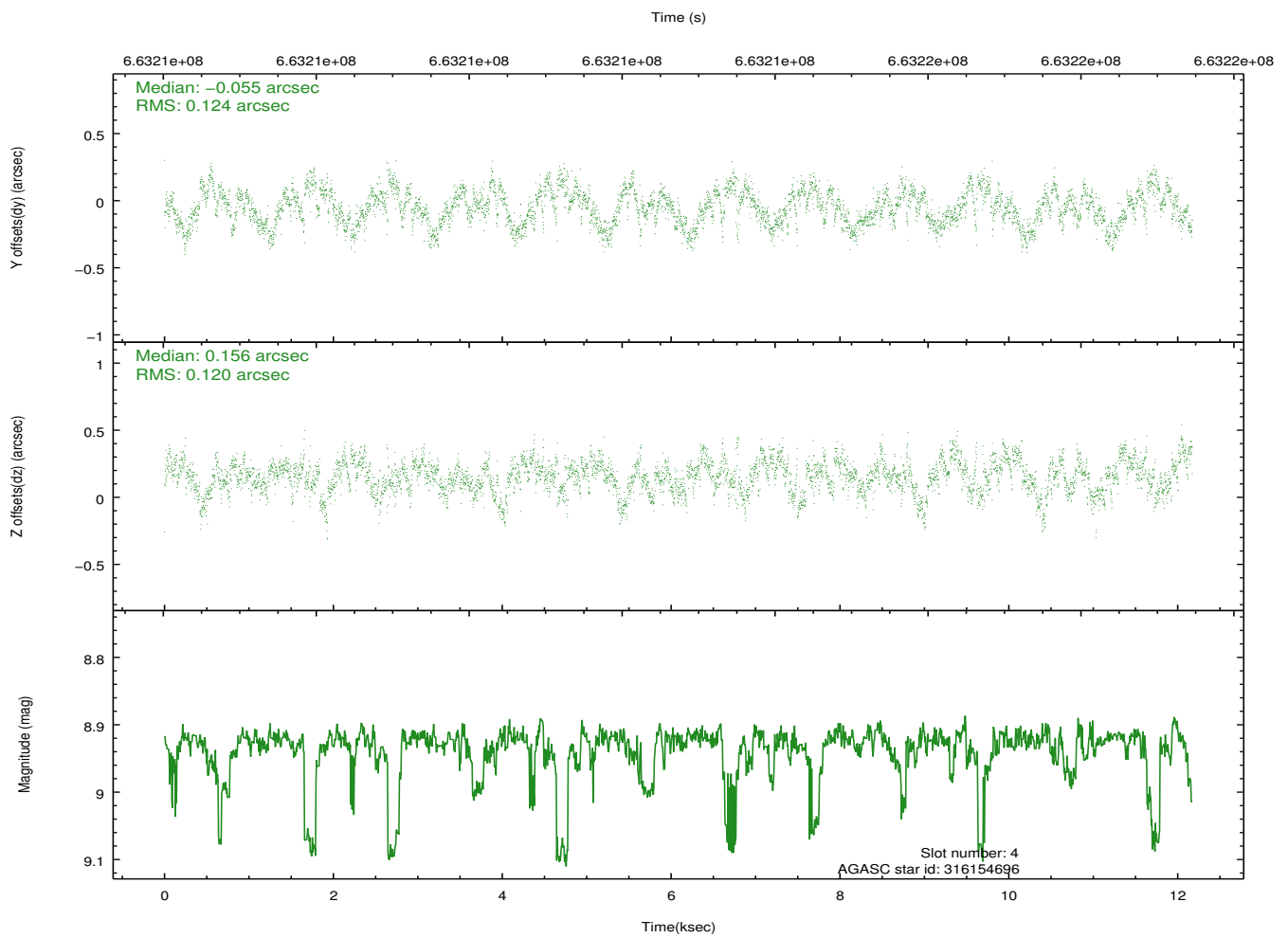
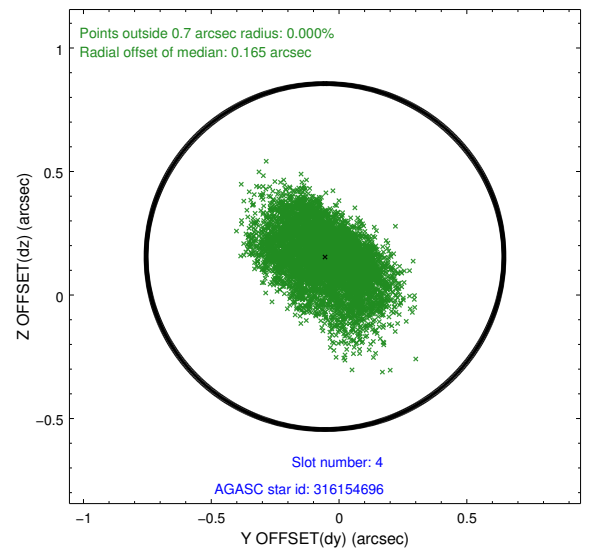
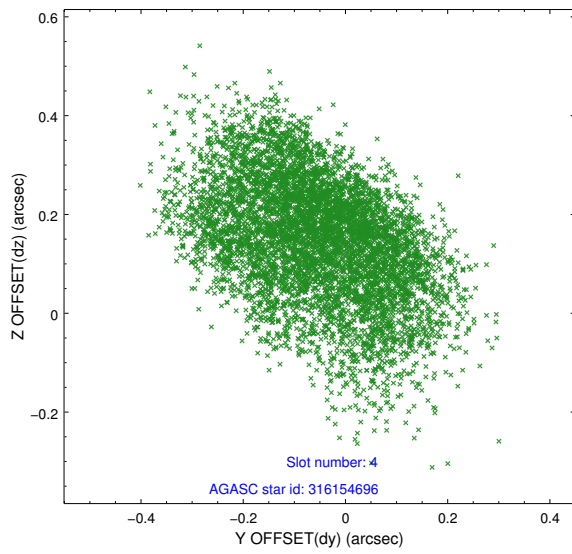
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2.4 Star Slots

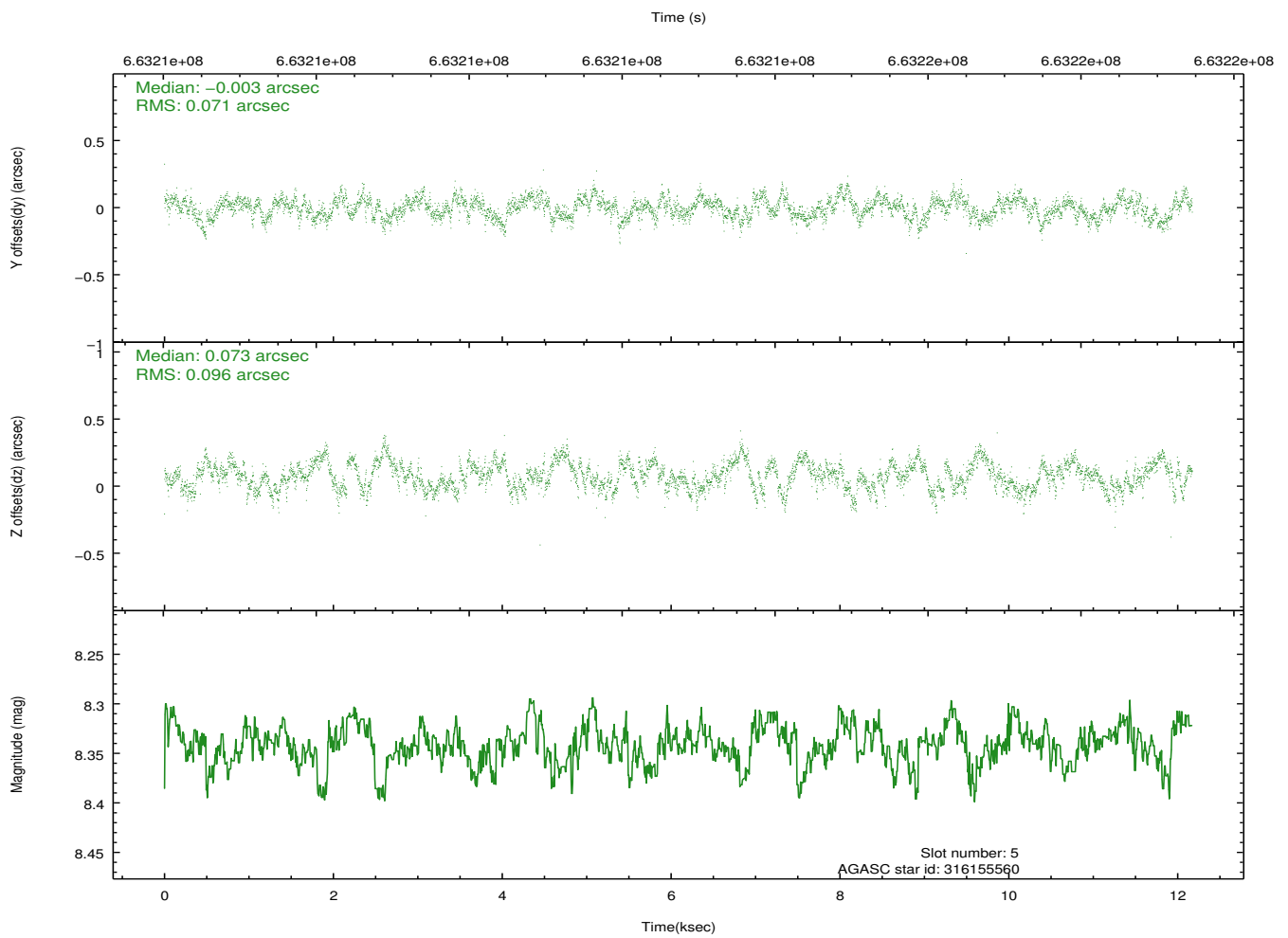
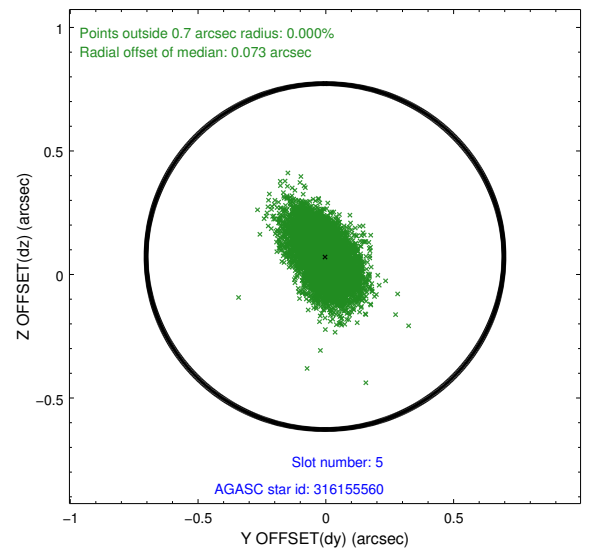
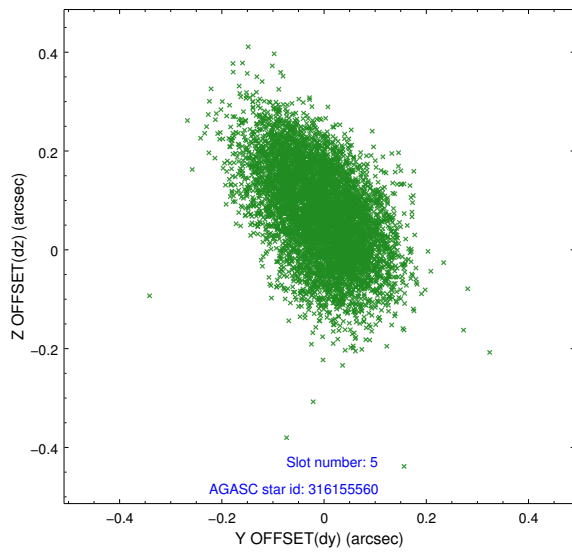
2.4.1 Slot 3



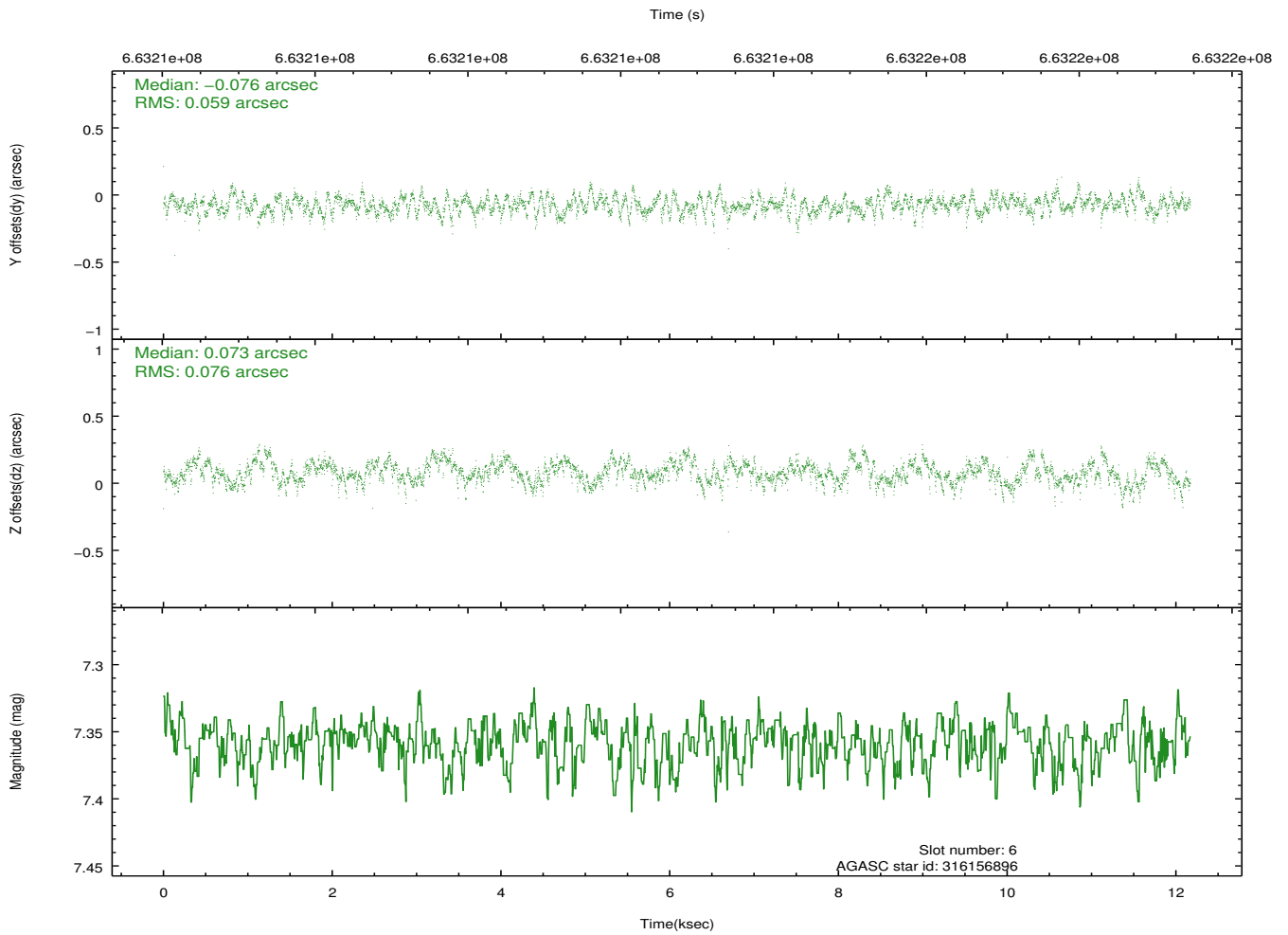
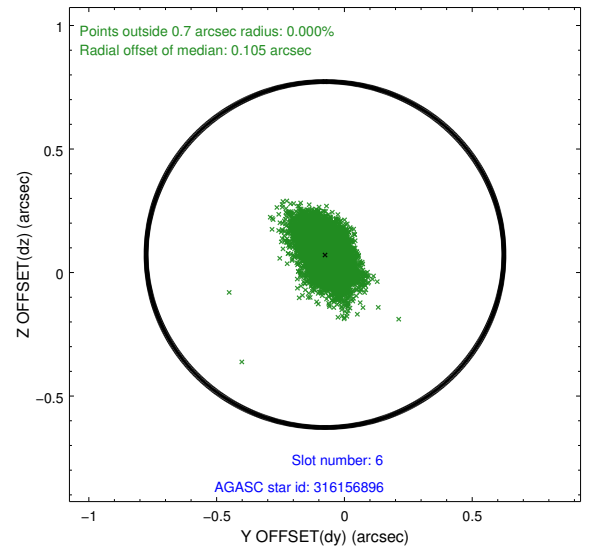
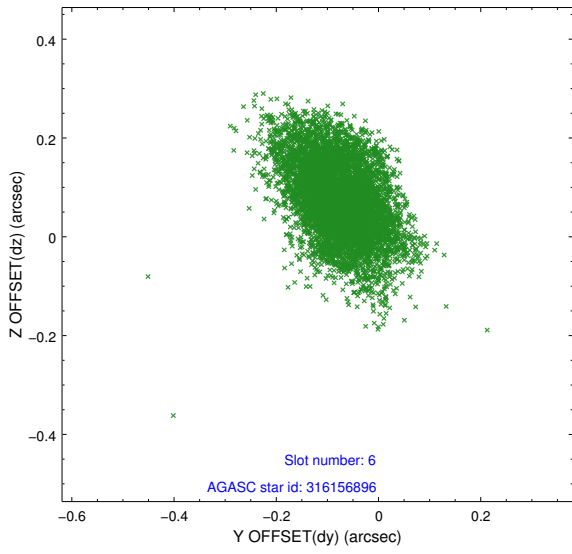
2.4.2 Slot 4



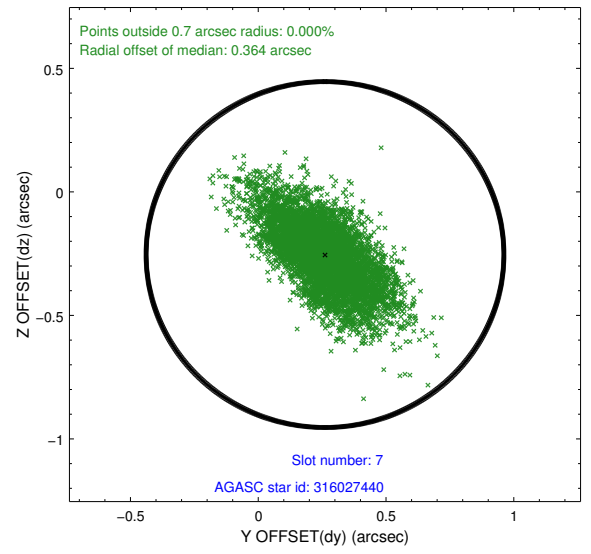
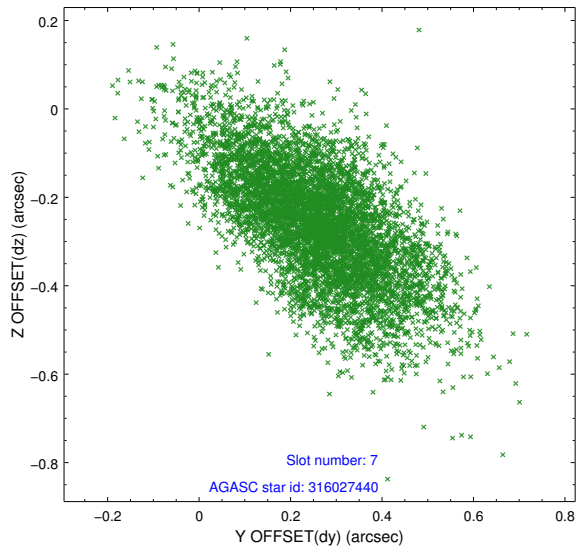
2.4.3 Slot 5



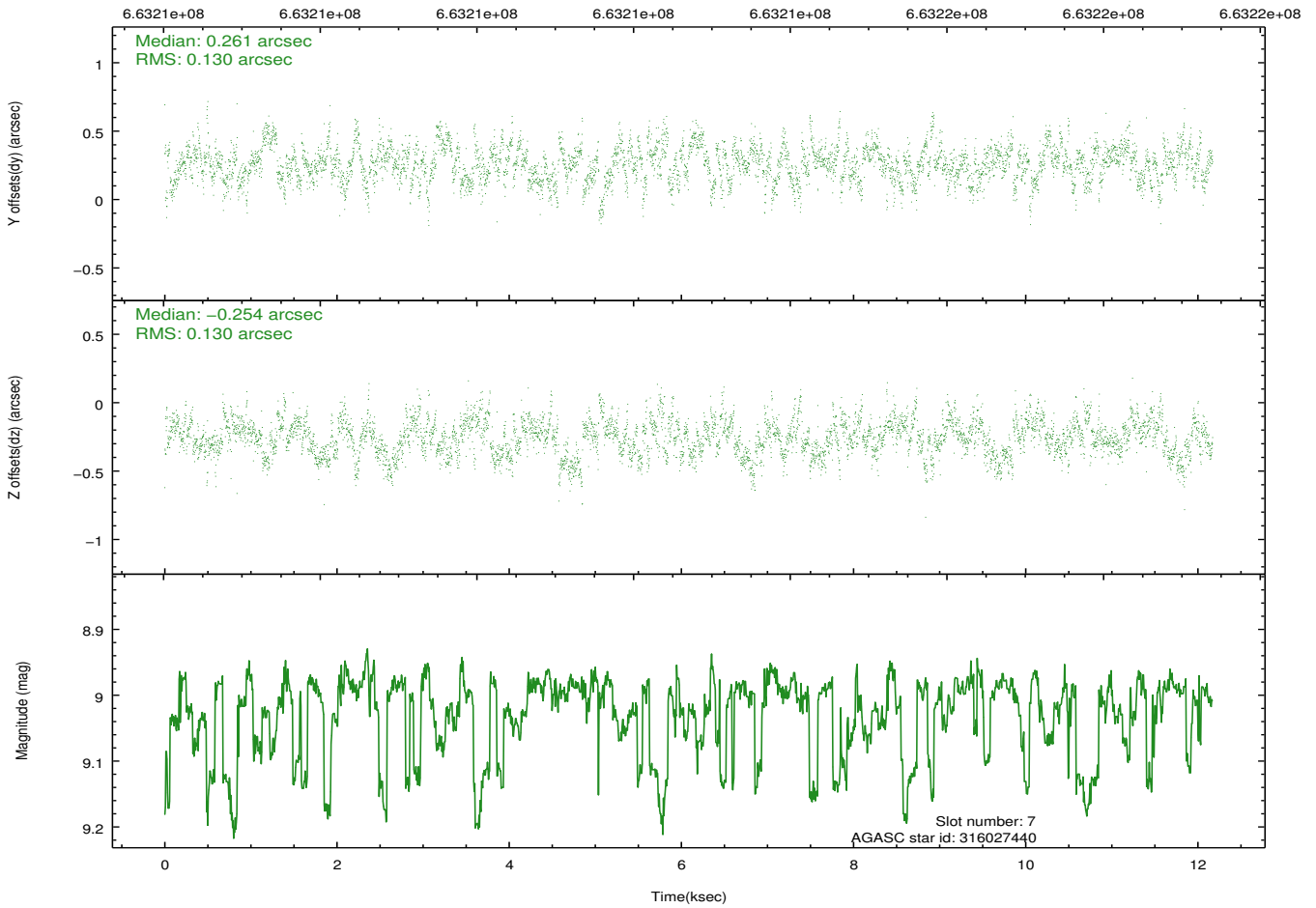
2.4.4 Slot 6



2.4.5 Slot 7

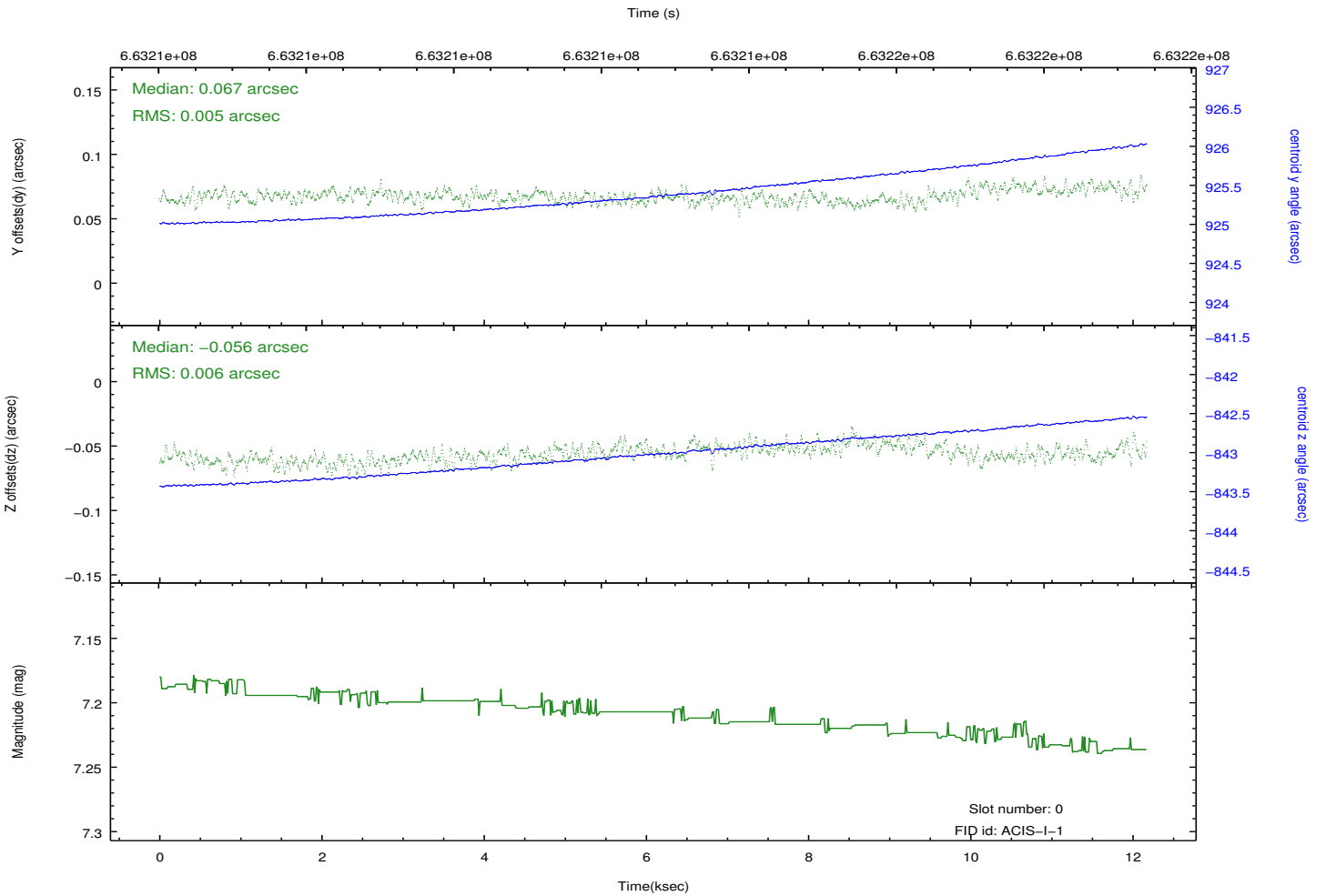
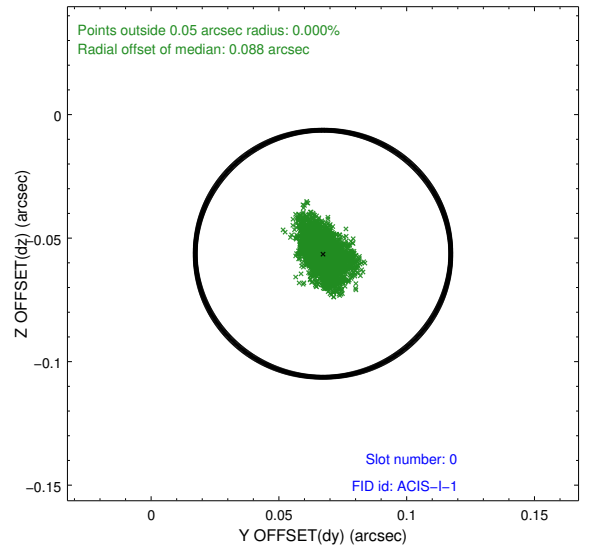
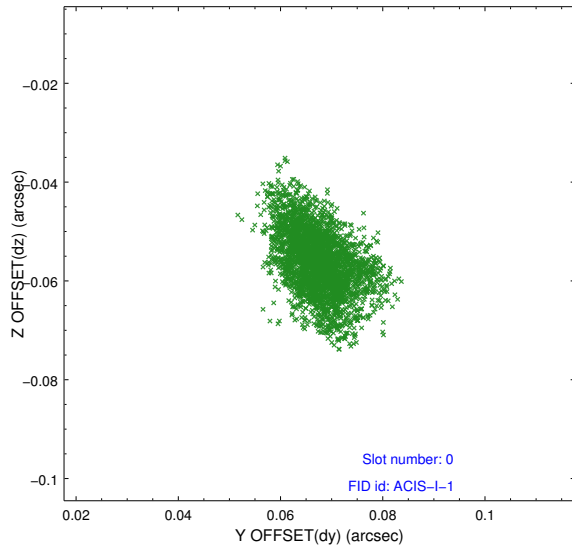


Time (s)

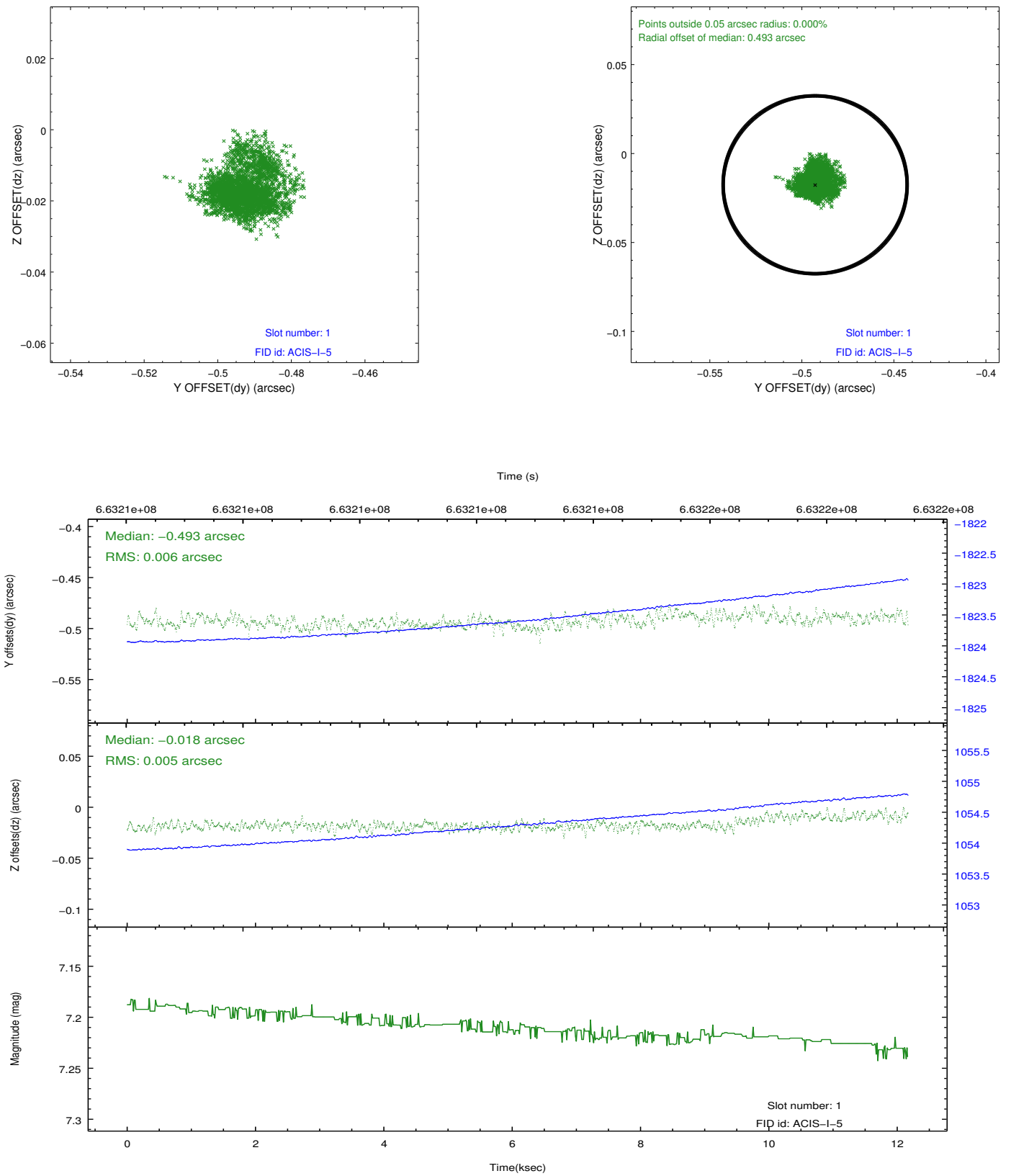


2.5 FID Slots

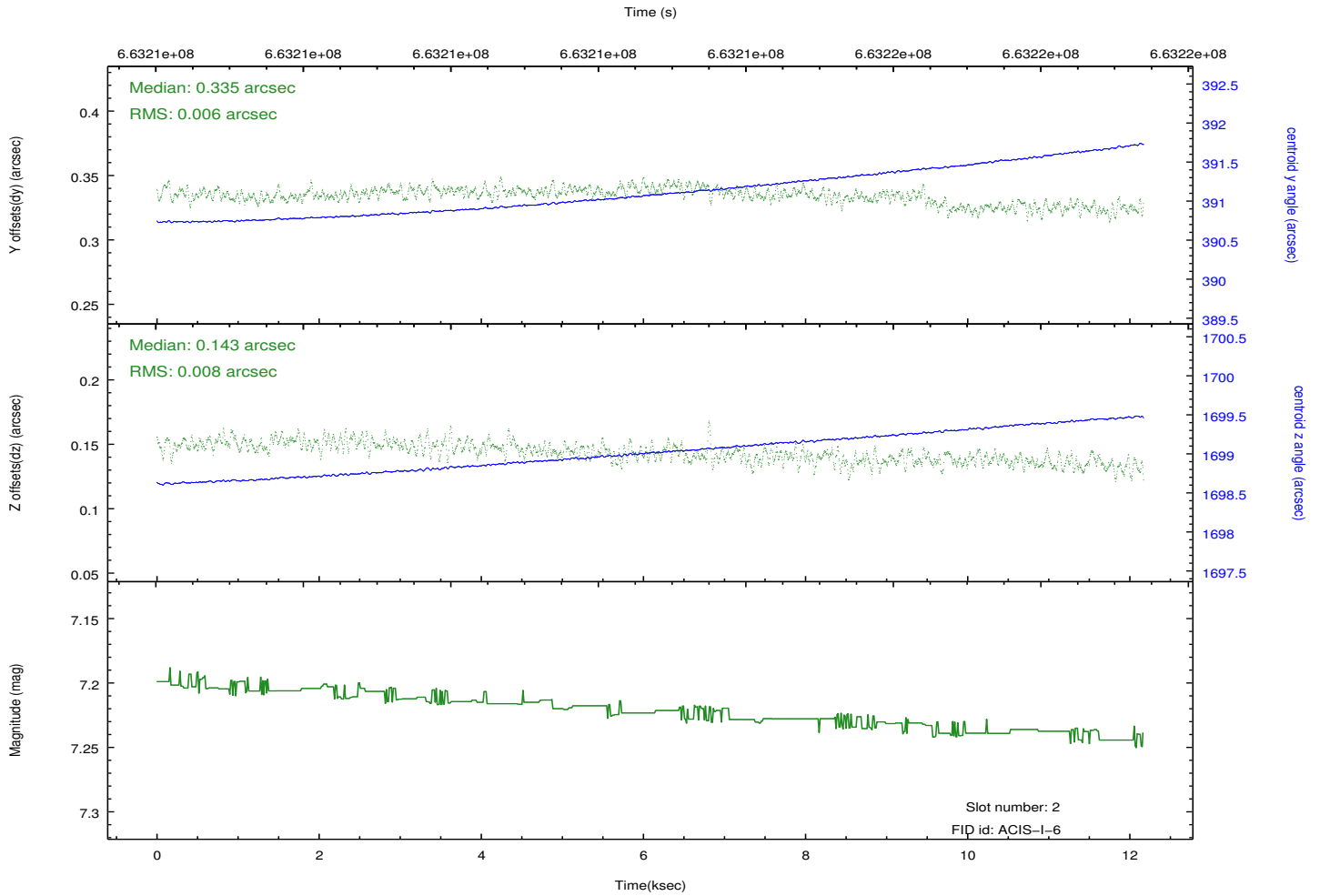
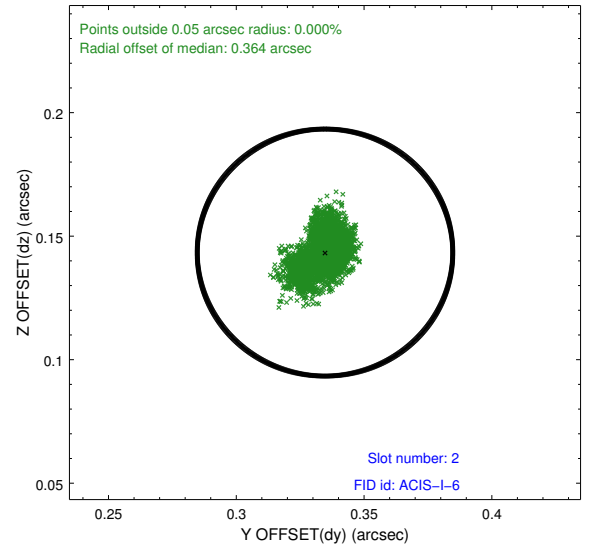
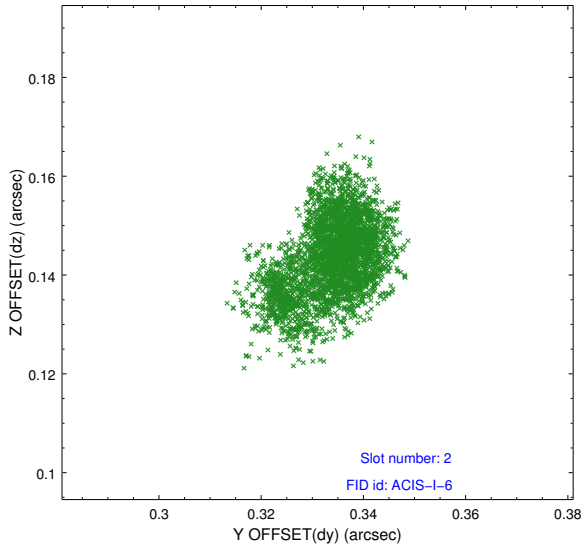
2.5.1 Slot 0



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)	2019.01.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.077505432606

A.2 Comments