

V&V Reference Report

L2 ASCDS Version : 10.8.4

Observation 23293 - L2 Version 1
Chandra X-Ray Center

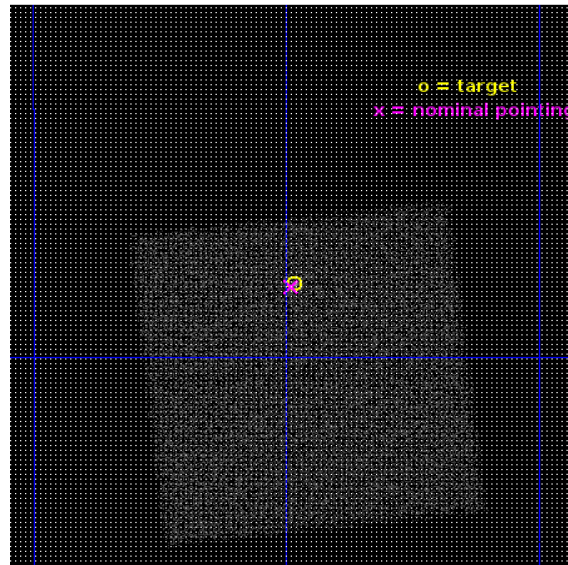
L2 Processing Date : Jun 30 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

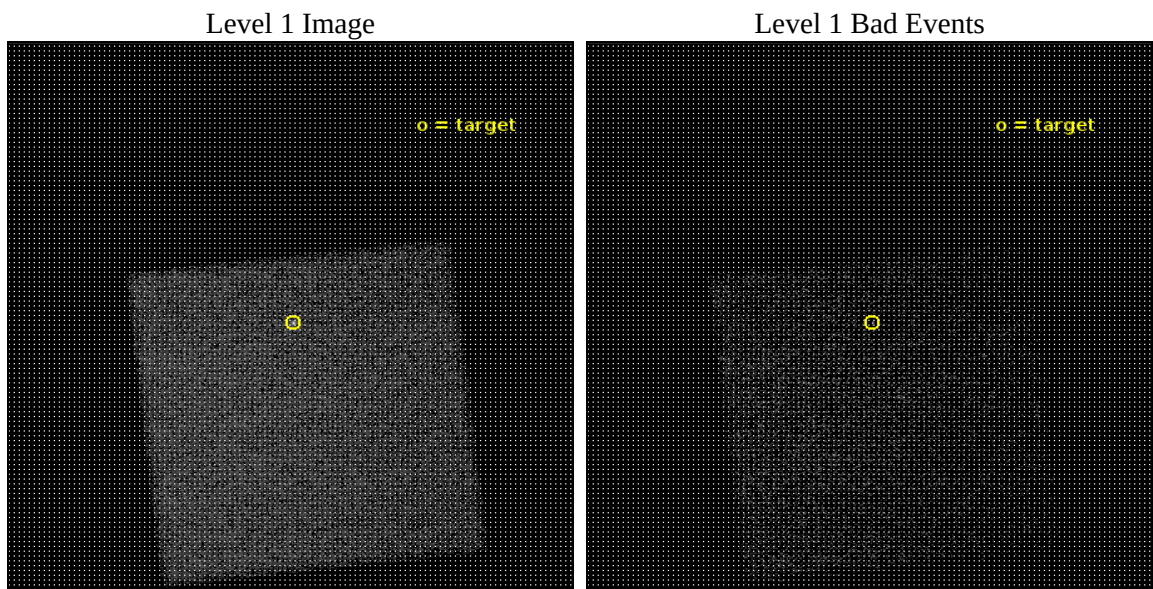
seq_num	201351	Sequence number
obs_id	23293	Observation id
title	Stellar activity with TESS and Chandra	Proposal title
observer	Hans Guenther	Principal investigator
object	2RXS J201800.8-280751	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	304.495544	Observer's specified target RA [deg]
dec_targ	-28.133123	Observer's specified target Dec [deg]
ra_nom	304.497342448	Nominal RA [deg]
dec_nom	-28.1345562876	Nominal Dec [deg]
roll_nom	83.4892691511	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9767.8777911663	Sum of GTIs [s]
livetime	9636.0565377302	Livetime [s]
ontime7	9767.8777911663	Sum of GTIs [s]
l2events	44051	Number of level 2 events



2 OBI

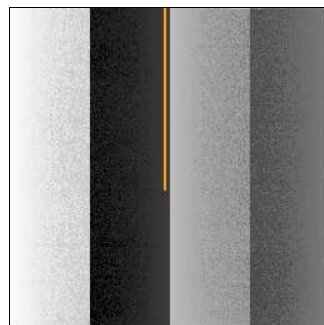
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9806.057000	[s] Scheduled observation exposure time
ascdsver	10.8.4	Processing system revision	ontime	9767.8777911663	Sum of GTIs [s]
caldsver	4.9.1	 	ontime7	9767.8777911663	Sum of GTIs [s]
date	2020-06-30T17:39:25	Date and time of file creation	l1events	101292	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	101292
rejected events	55863
rejected %	55%

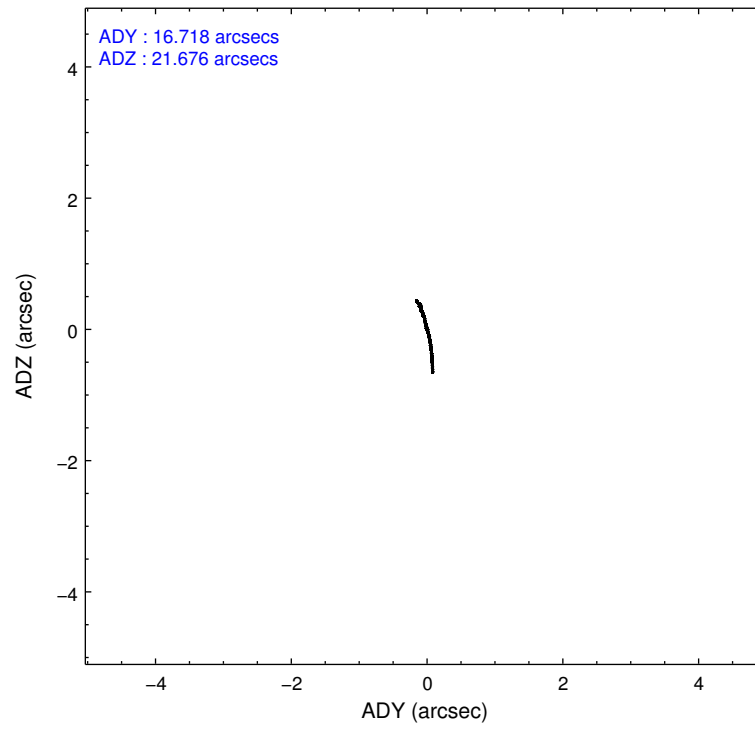
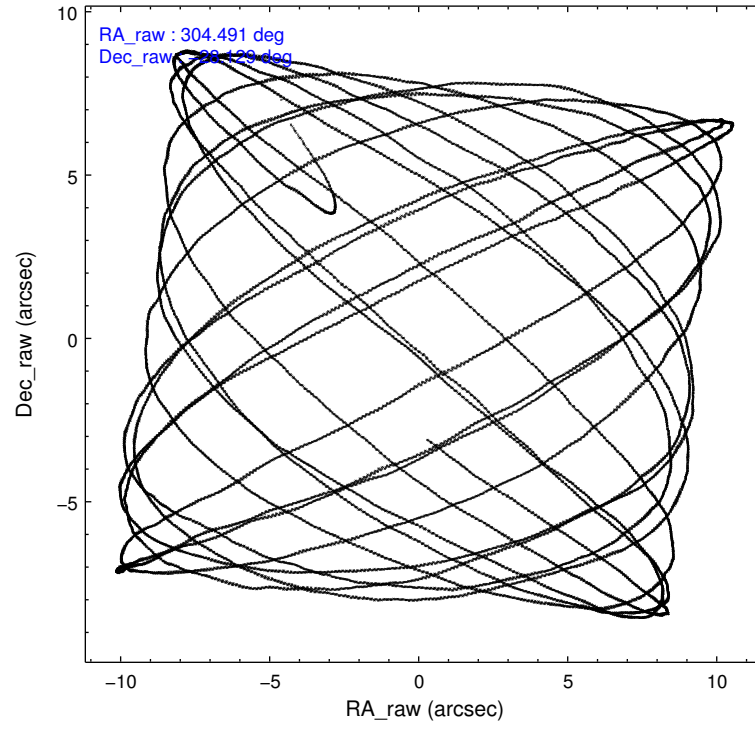
	ccd 7
grade 0 events	4078
	4%
grade 1 events	190
	0%
grade 2 events	10026
	9%
grade 3 events	3596
	3%
grade 4 events	3477
	3%
grade 5 events	9752
	9%
grade 6 events	24272
	23%
grade 7 events	45901
	45%

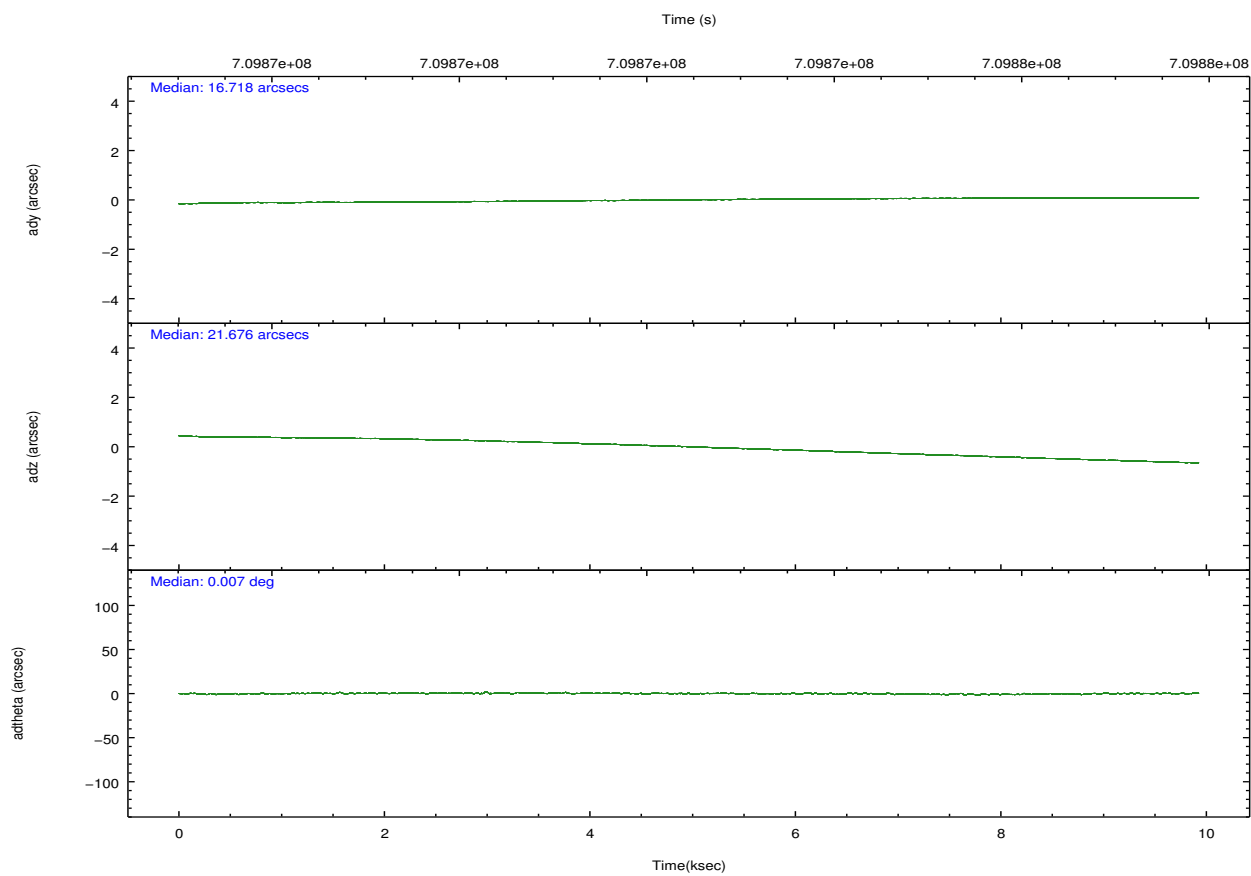
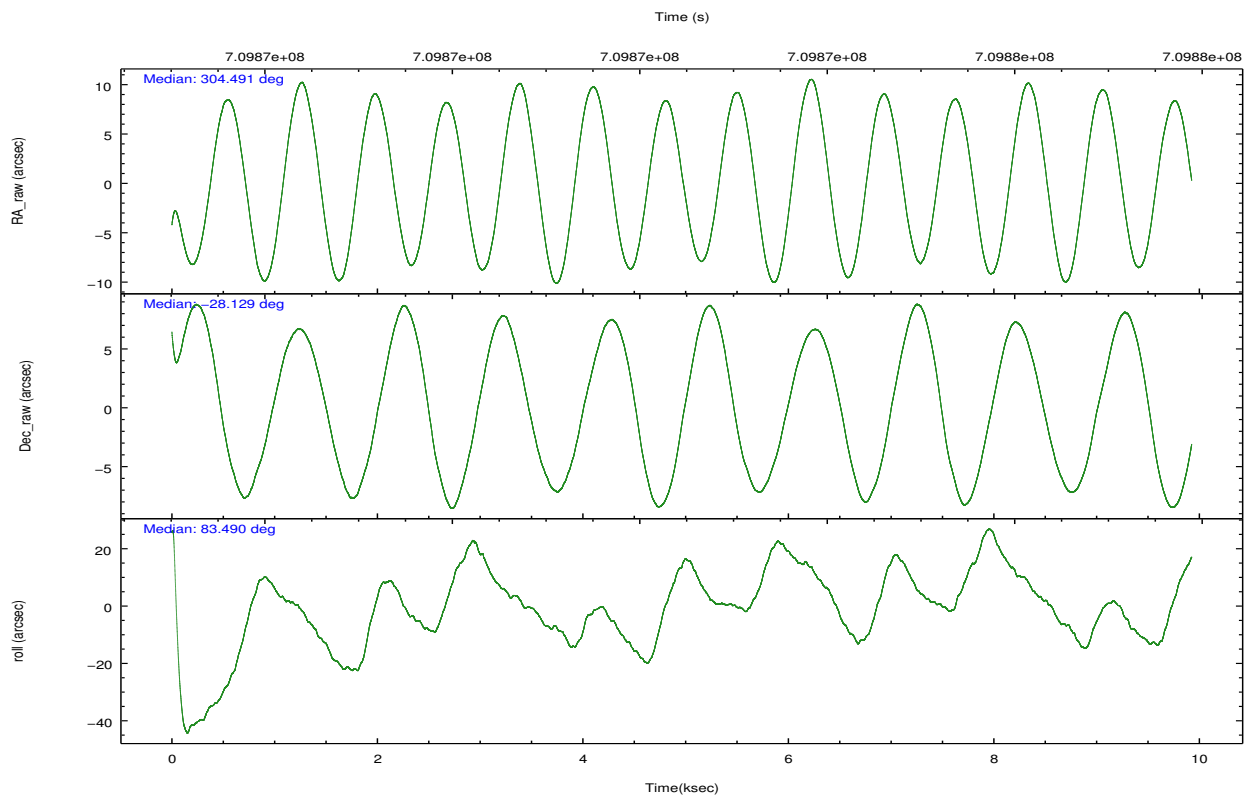
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	304.503766	304.497342448
[deg] Pointing Dec	-28.154049	-28.1345562876
[deg] Pointing Roll	83.350479	83.4892691511
[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)	709867613.184000	709866396.61447
Observation start date	2020-06-30T01:25:44	2020-06-30T01:06:36
[s] Observation end time (MET)	709877419.184000	709877989.8776799
Observation end date	2020-06-30T04:09:10	2020-06-30T04:19:49
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3

2.3 Aspect



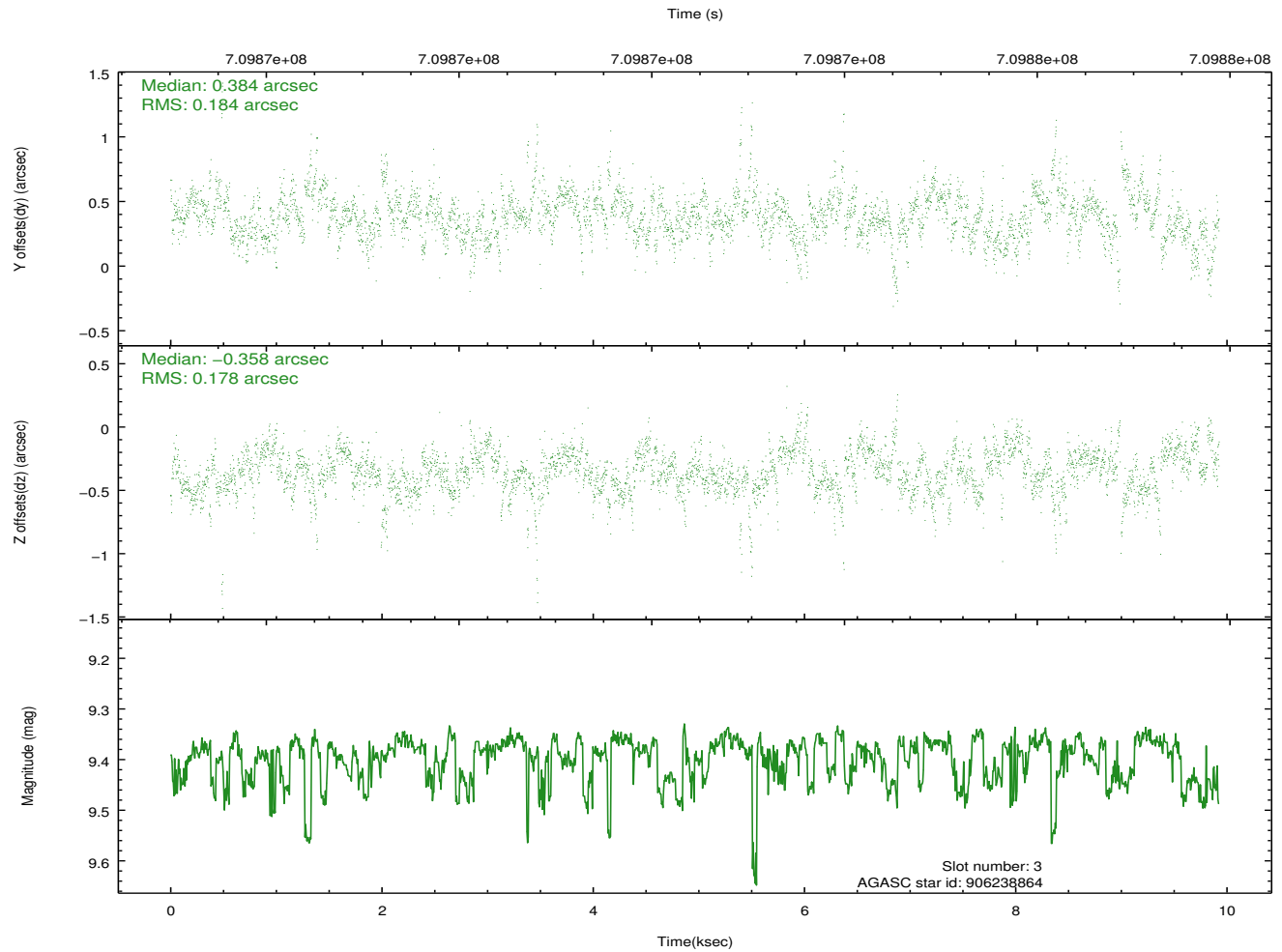
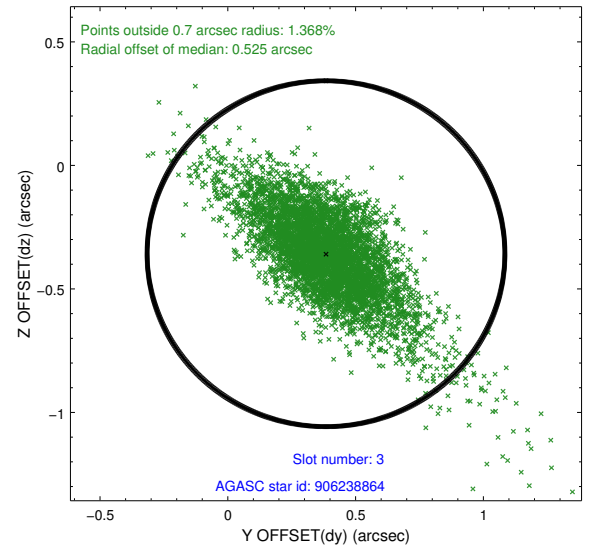
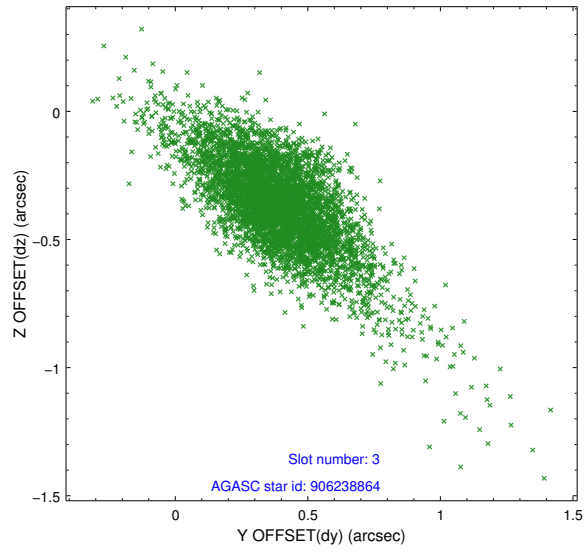


Slot Statistics

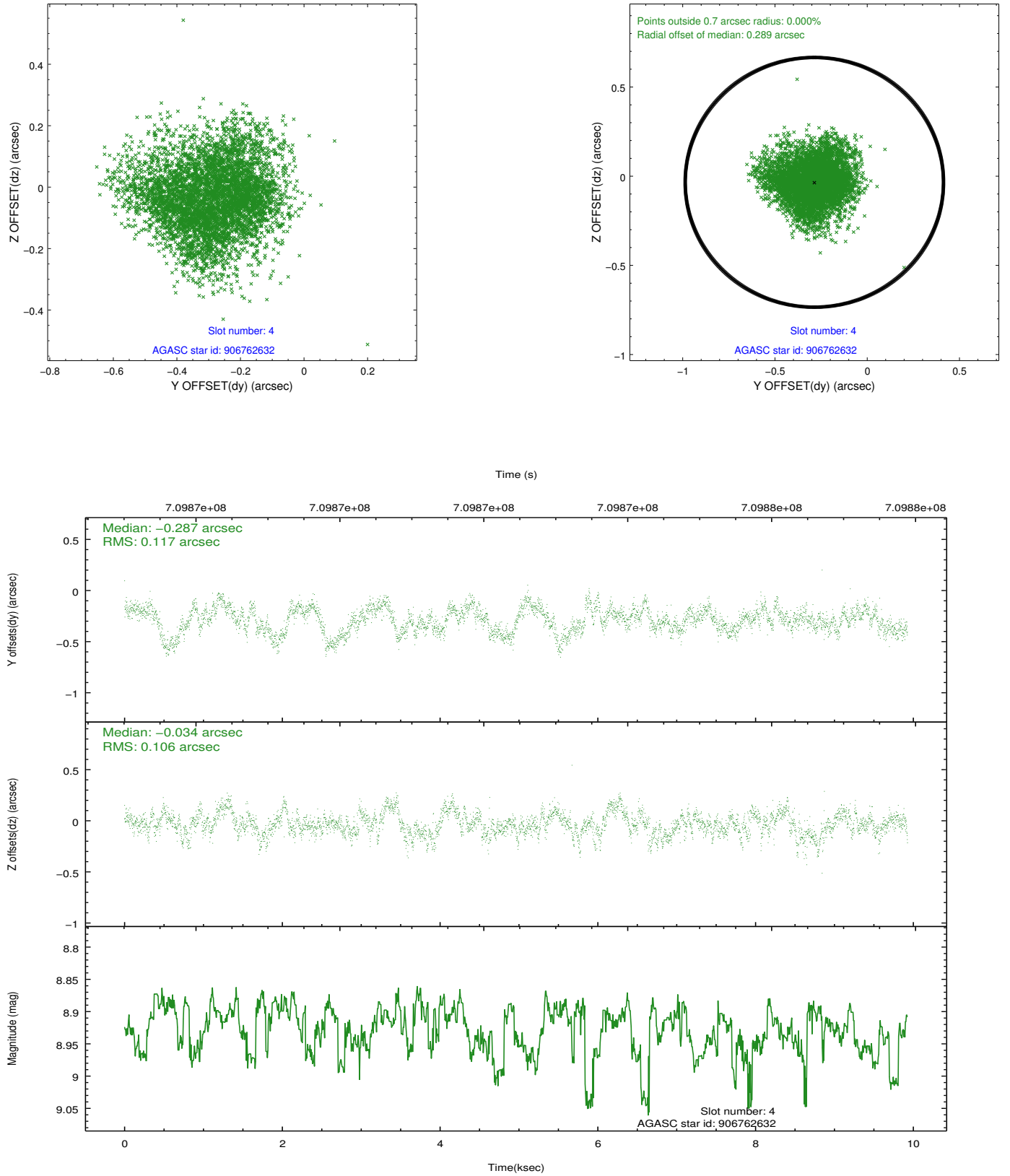
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.01	2421	1.000	0.229	-0.091	0.010	0.026	0.000000	0.000000	-769.84	-1743
1	FID		ACIS-S-4	7.14	2421	1.000	0.062	-0.085	0.011	0.018	0.000000	0.000000	2143.39	164
2	FID		ACIS-S-5	7.11	2421	1.000	-0.322	0.185	0.012	0.018	0.000000	0.000000	-1822.18	159
3	GUIDE	used	906238864	9.39	4825	1.000	0.384	-0.358	0.232	0.487	305.175414	-27.575594	2311.44	-1888
4	GUIDE	used	906762632	8.93	4838	1.000	-0.287	-0.034	0.169	0.268	304.495551	-28.133127	72.09	33
5	GUIDE	used	906764936	8.94	4840	1.000	0.194	0.315	0.161	0.251	304.587755	-28.537225	-1338.88	-423
6	GUIDE	used	906765352	9.06	4838	1.000	-0.108	-0.012	0.179	0.282	303.955813	-28.205527	-389.21	1705
7	GUIDE	used	906757288	9.39	4831	1.000	-0.173	0.090	0.217	0.339	303.854953	-28.361431	-985.12	1955

2.4 Star Slots

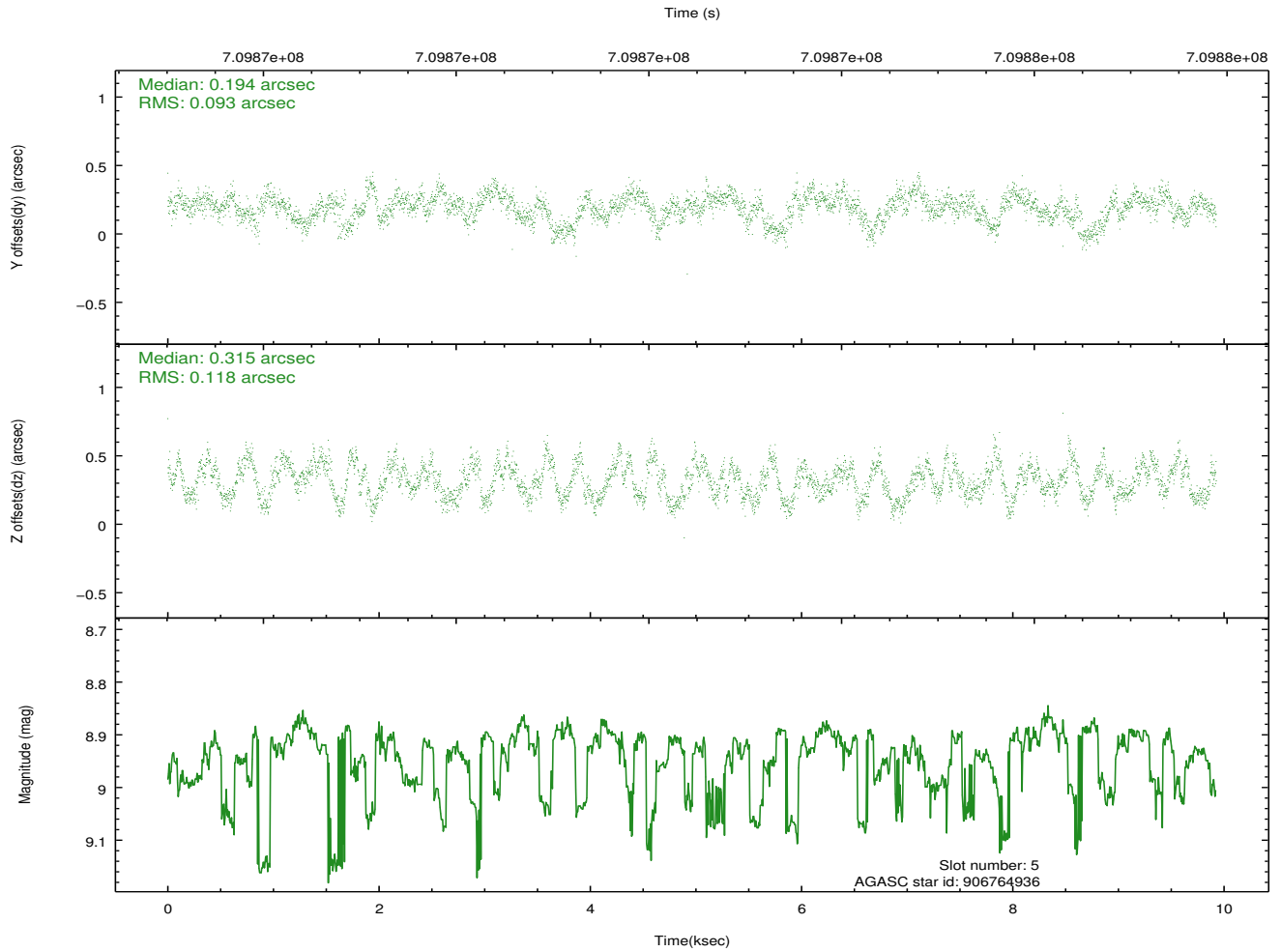
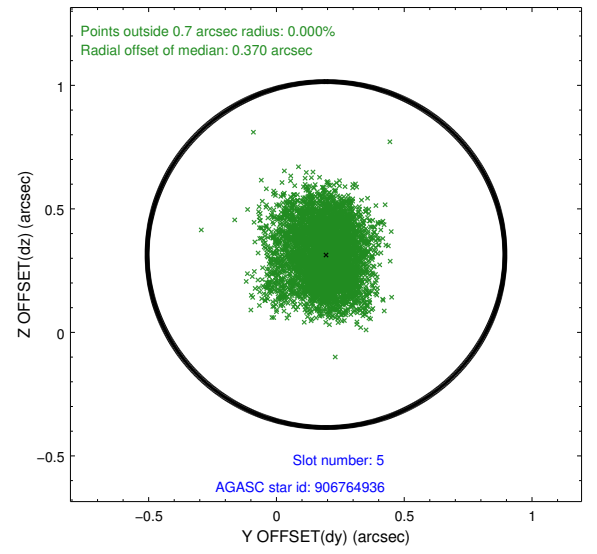
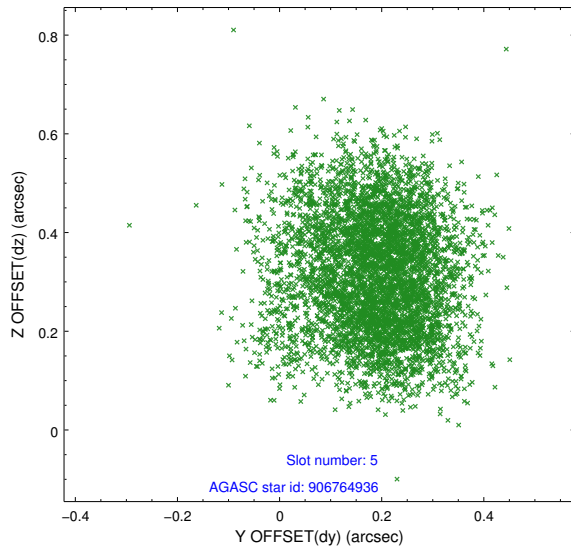
2.4.1 Slot 3



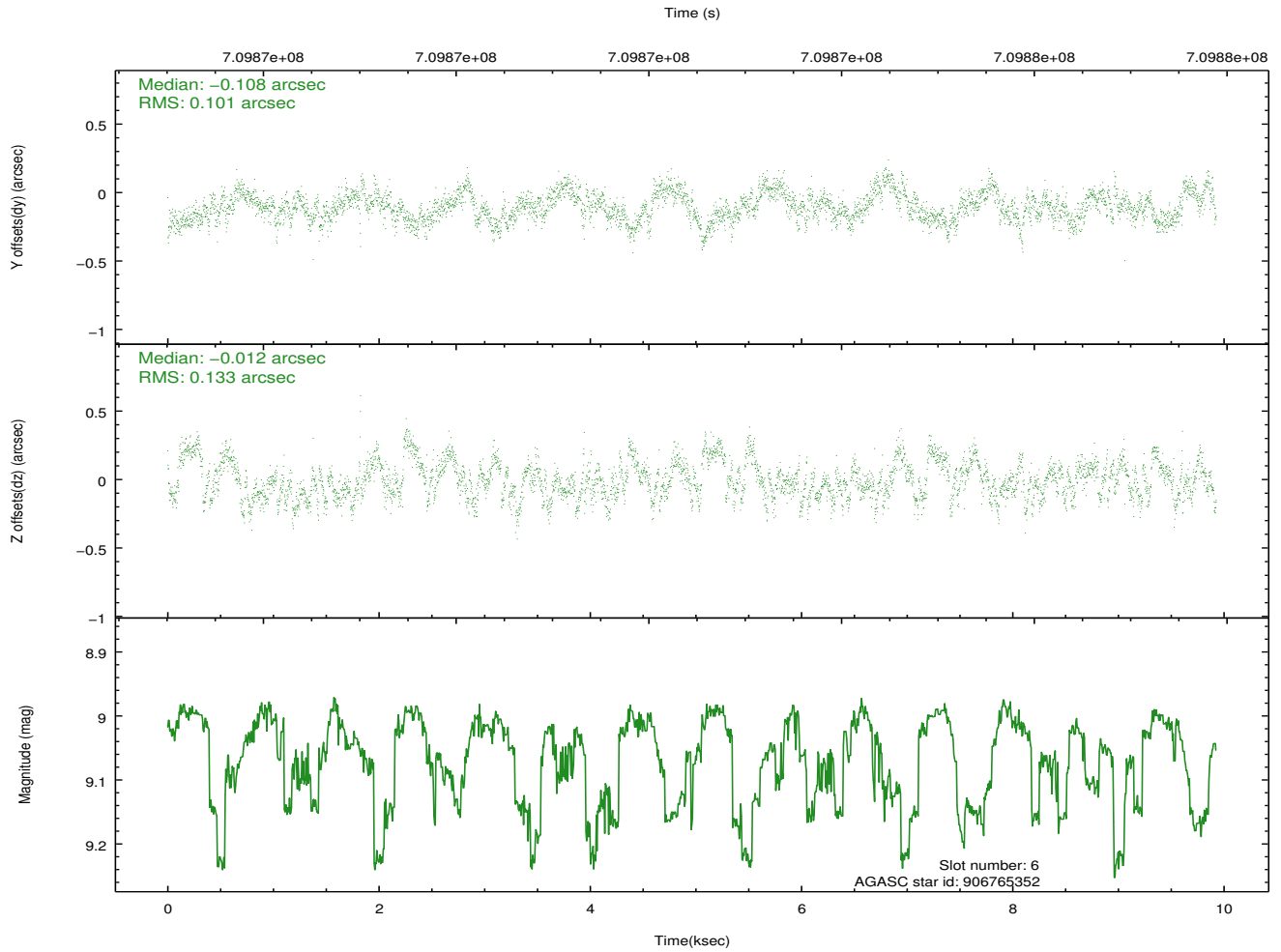
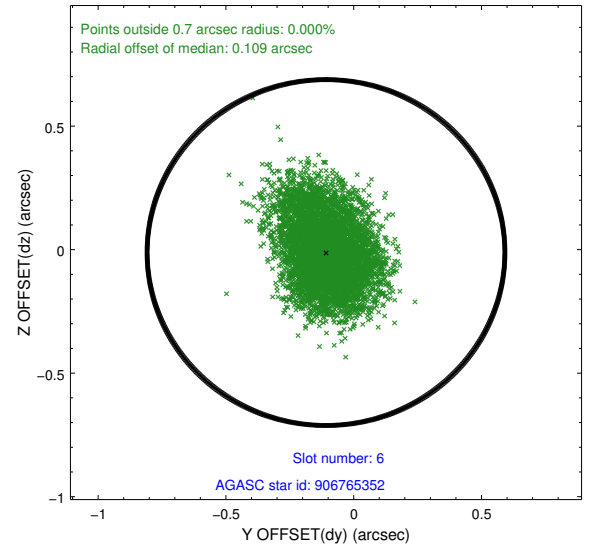
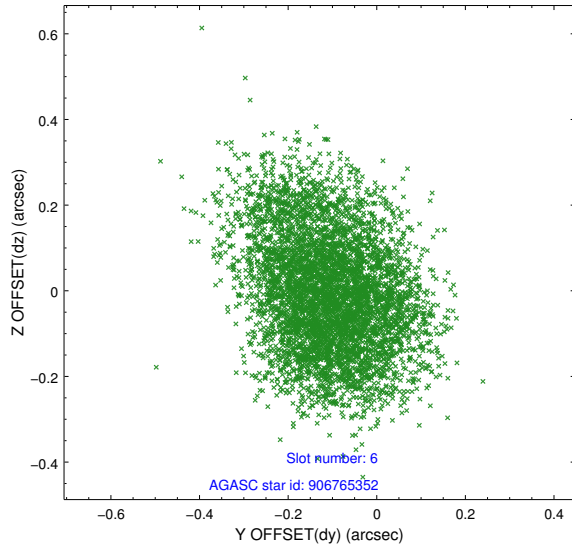
2.4.2 Slot 4



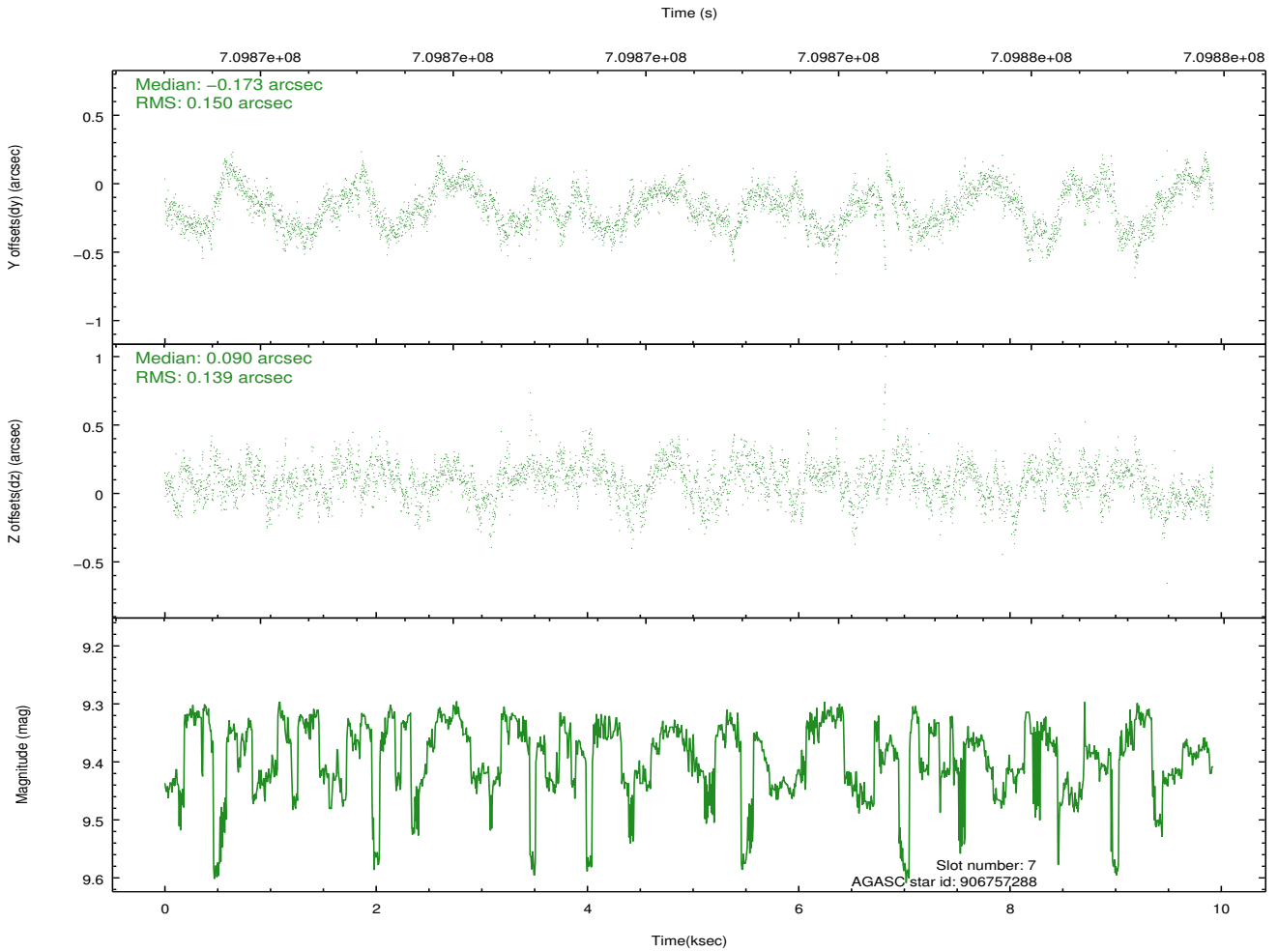
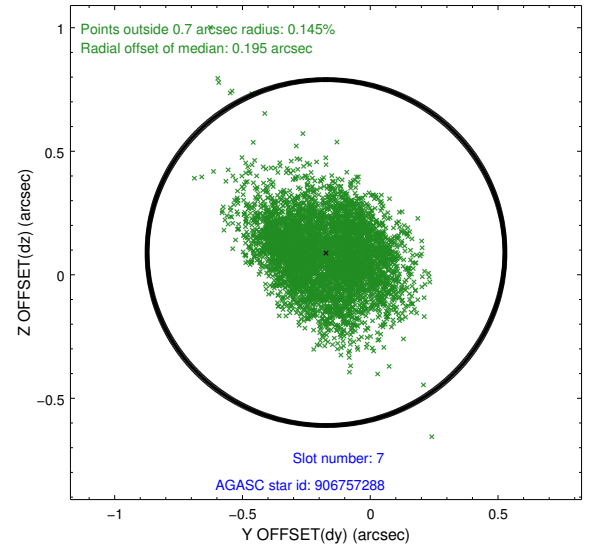
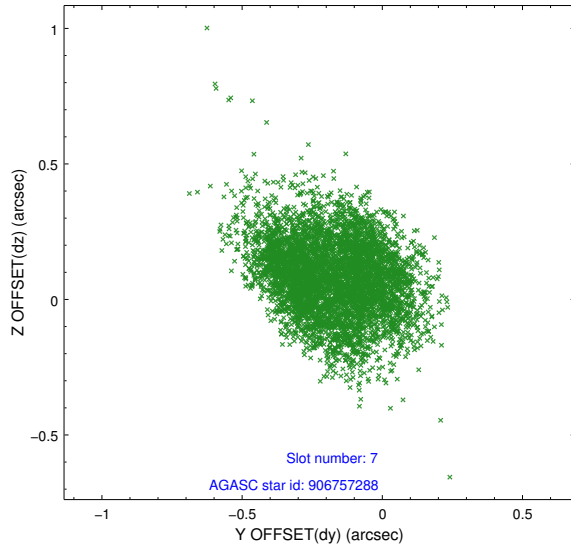
2.4.3 Slot 5



2.4.4 Slot 6

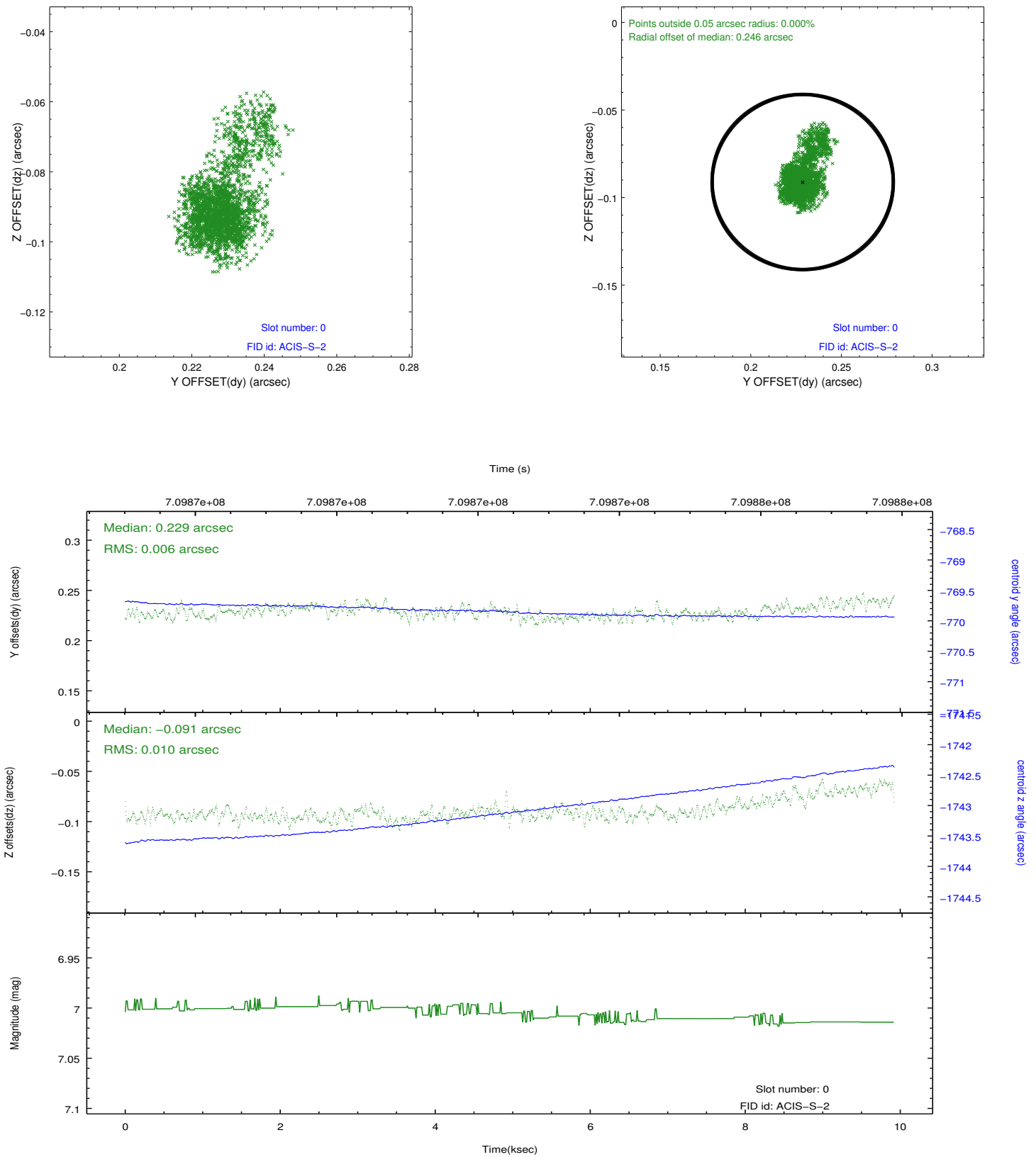


2.4.5 Slot 7

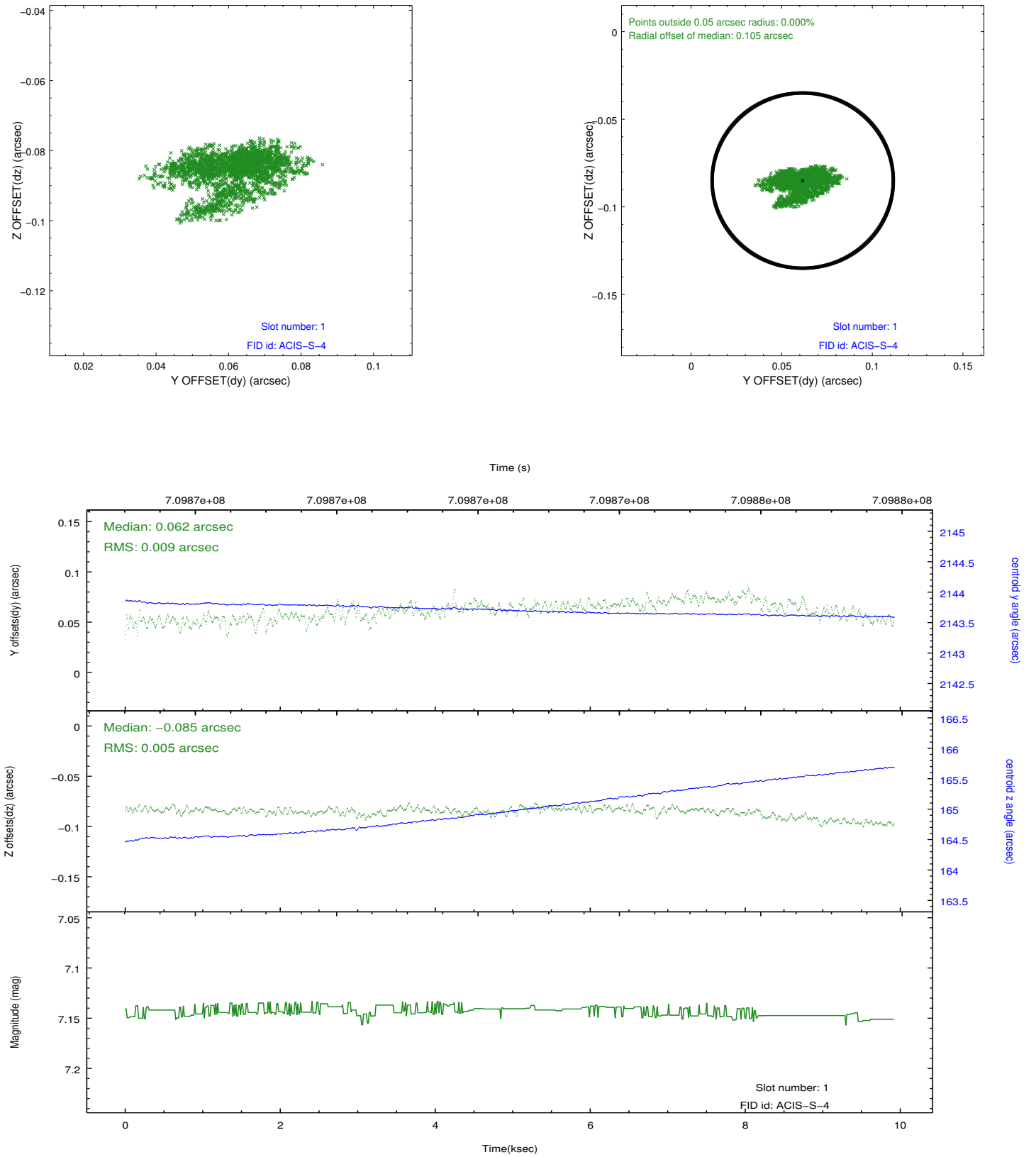


2.5 FID Slots

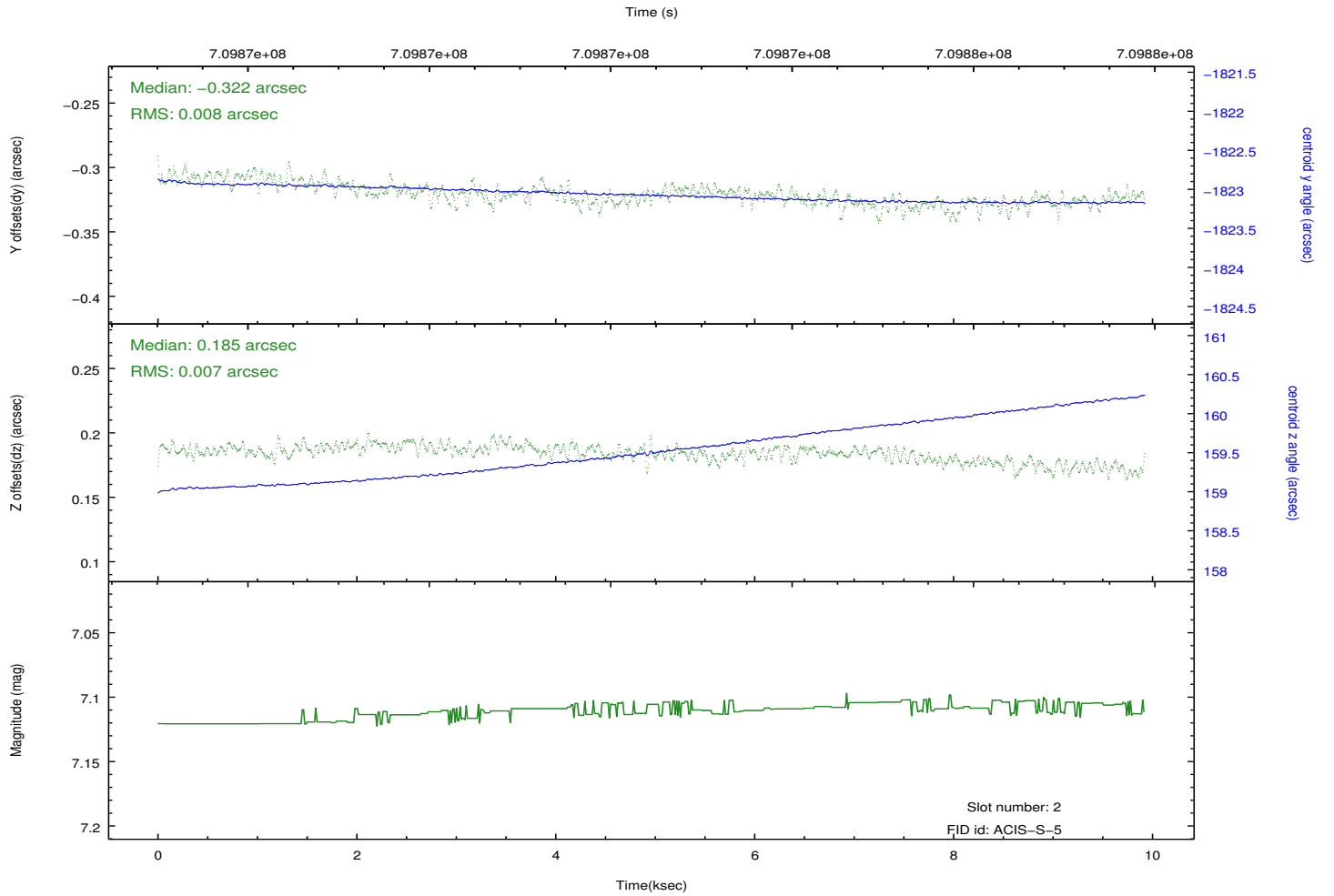
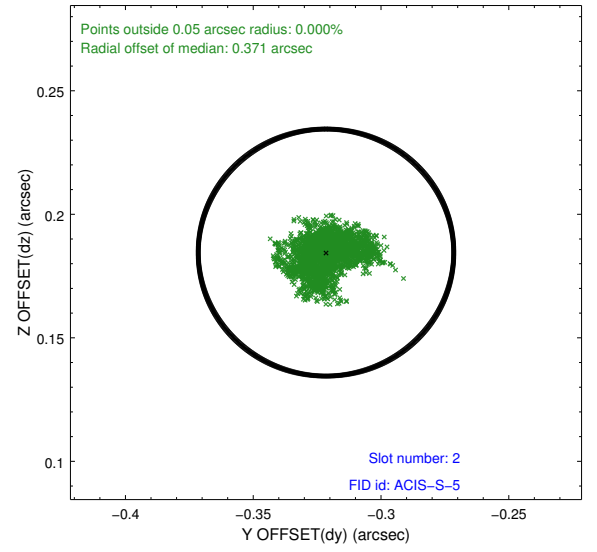
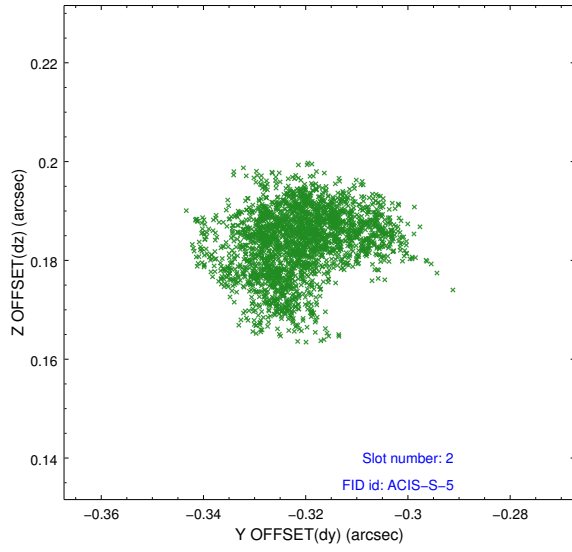
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.06.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.7678777911663

A.2 Comments