

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22194 - L2 Version 1
Chandra X-Ray Center

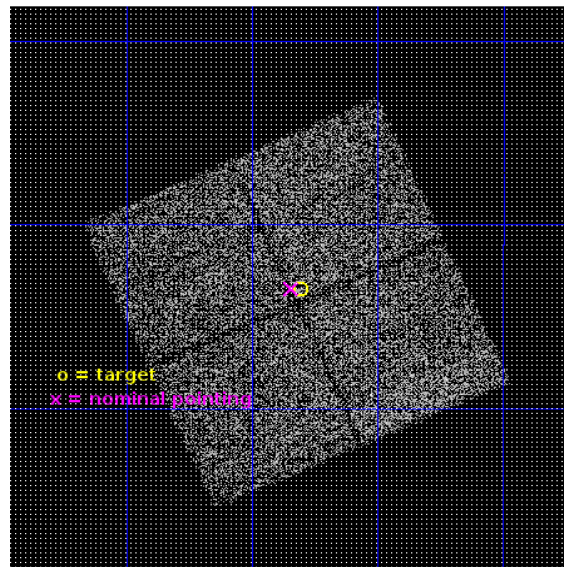
L2 Processing Date : Apr 25 2019

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1 Front

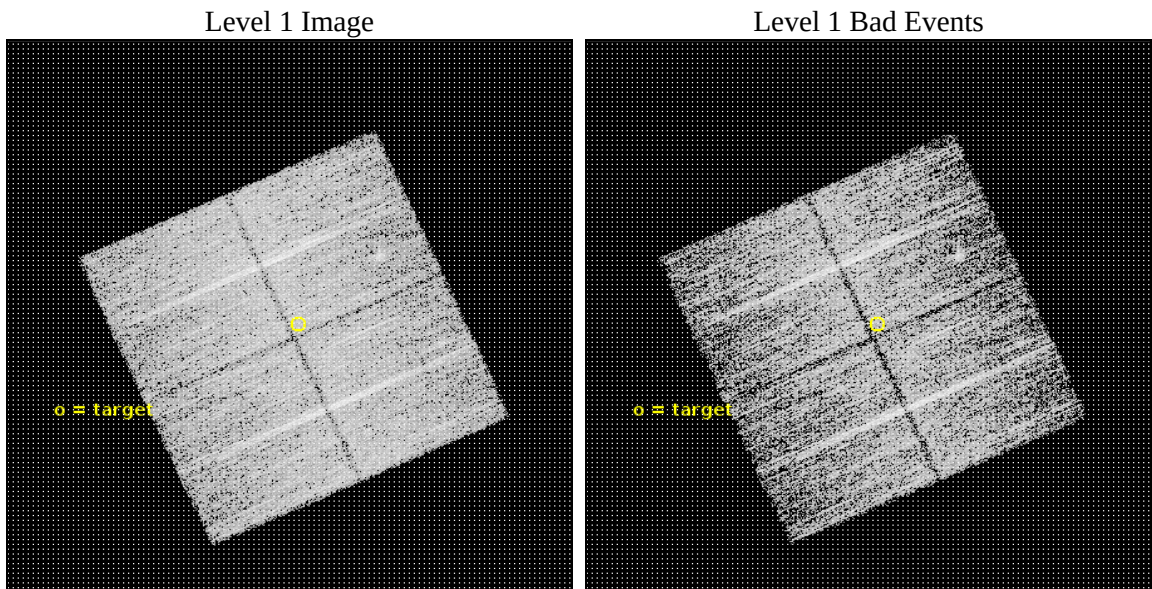
seq_num	601447	Sequence number
obs_id	22194	Observation id
title	ULX Science with Nearby Galaxies	Proposal title
observer	Dominic Walton	Principal investigator
object	IC 4316	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	205.076706	Observer's specified target RA [deg]
dec_targ	-28.89222	Observer's specified target Dec [deg]
ra_nom	205.08582243088	Nominal RA [deg]
dec_nom	-28.891683129462	Nominal Dec [deg]
roll_nom	335.76419556136	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10068.519348025	Sum of GTIs [s]
livetime	9936.9667304073	Livetime [s]
ontime0	10077.819248557	Sum of GTIs [s]
ontime1	10074.719298124	Sum of GTIs [s]
ontime2	10074.760338306	Sum of GTIs [s]
ontime3	10068.519348025	Sum of GTIs [s]
l2events	29312	Number of level 2 events



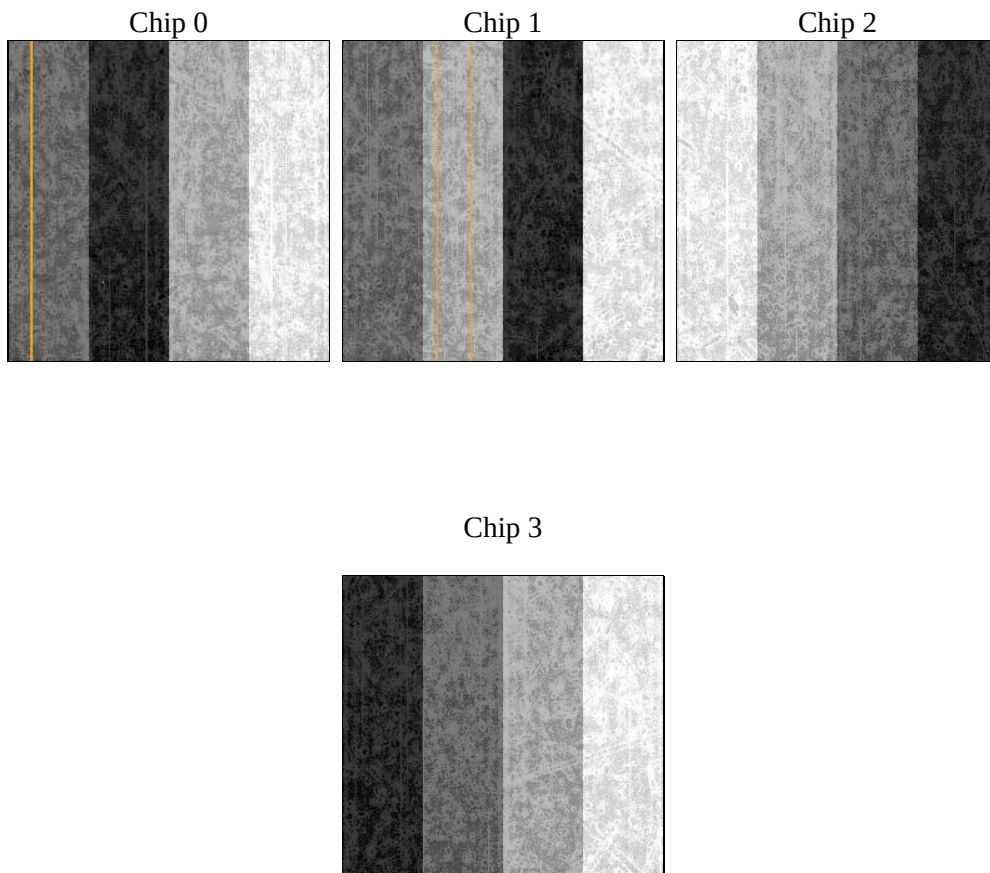
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10068.519348025	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	10077.819248557	Sum of GTIs [s]
date	2019-04-25T19:06:42	Date and time of file creation	ontime1	10074.719298124	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10074.760338306	Sum of GTIs [s]
			ontime3	10068.519348025	Sum of GTIs [s]
			l1events	292771	Number of level 1 events

2.1.4 Events

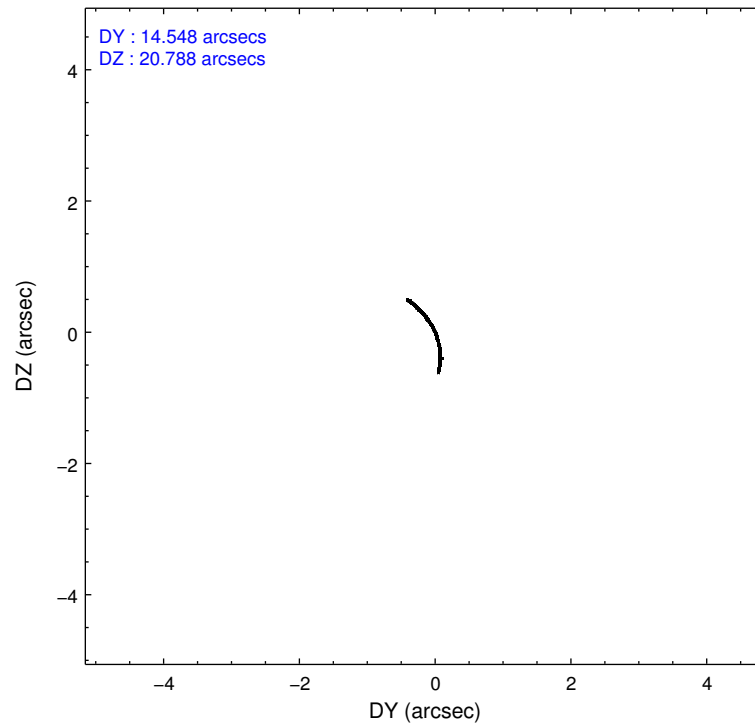
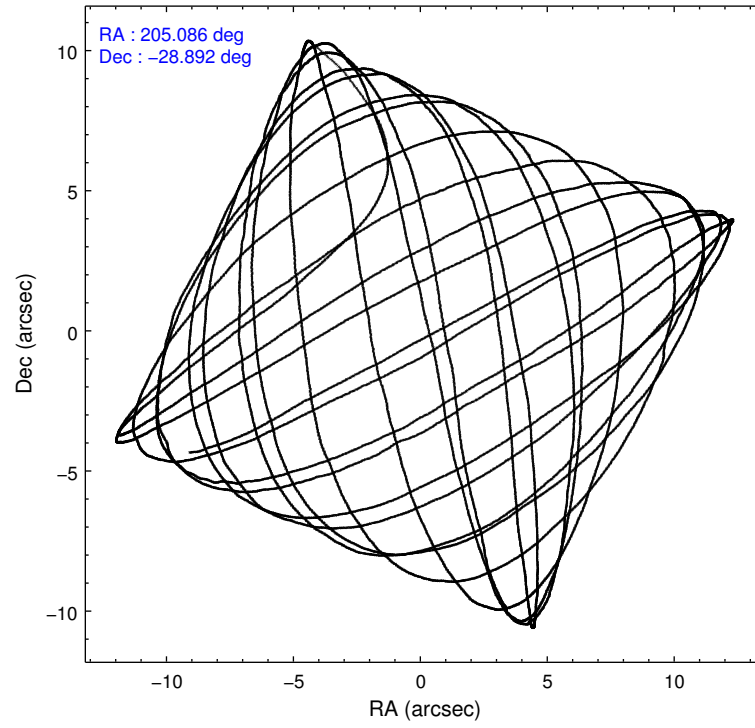
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	70068	73860	73399	75444
rejected events	61374	64119	64891	67266
rejected %	87%	86%	88%	89%

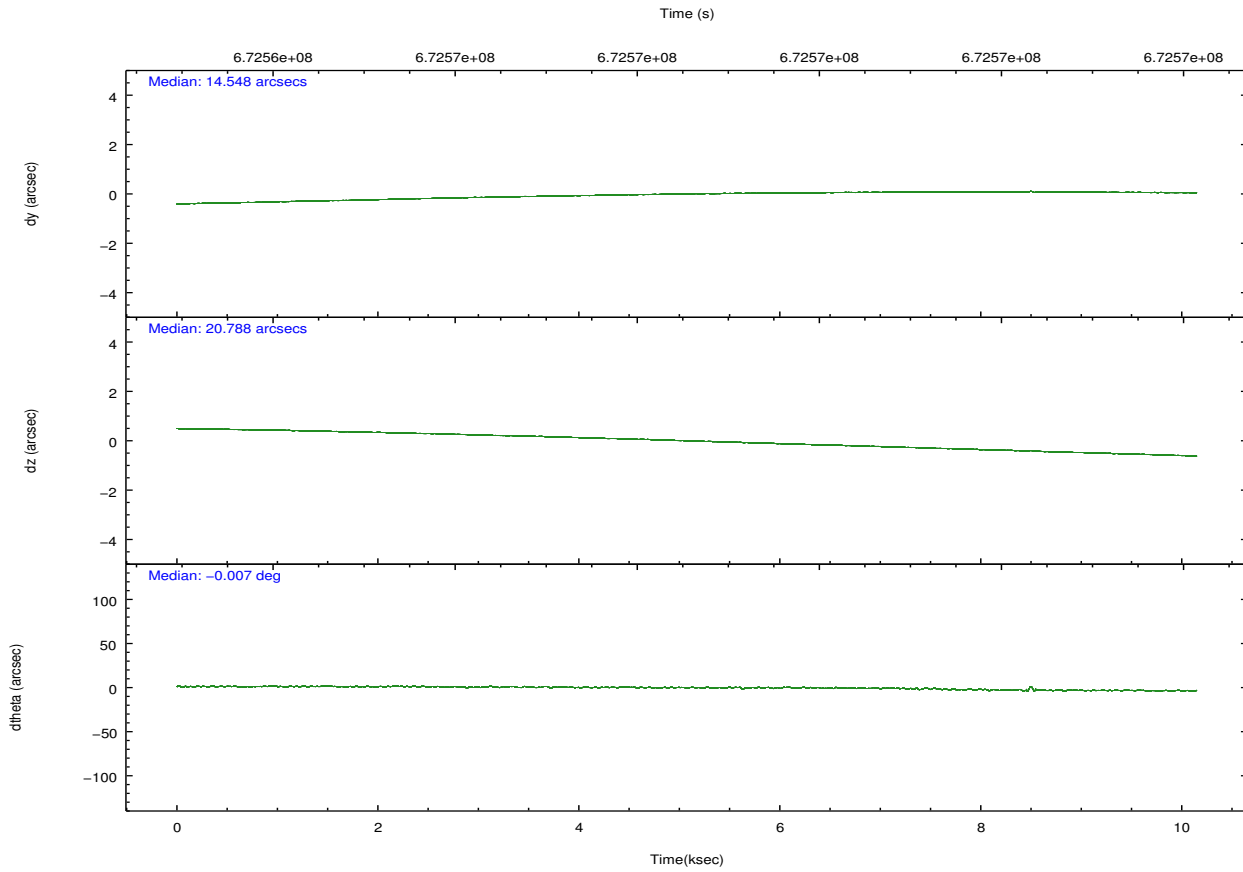
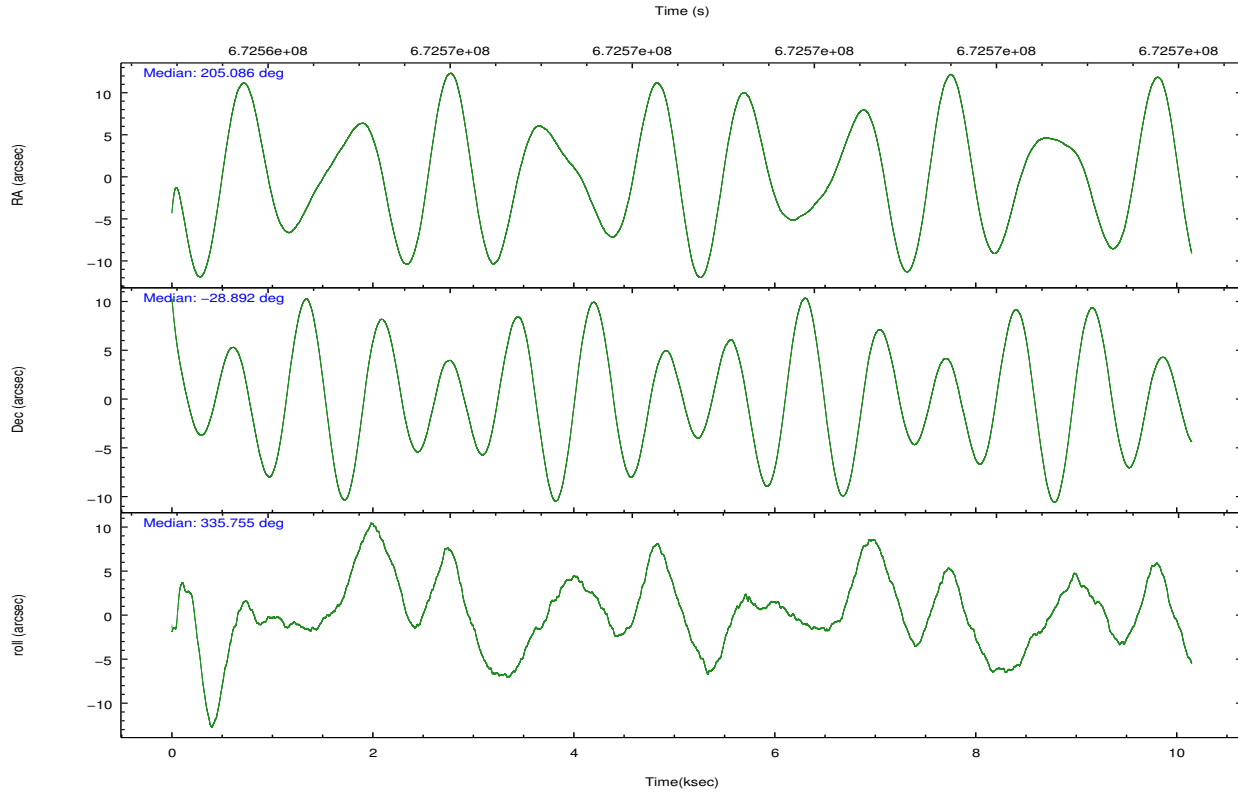
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2895	3316	2860	2945
	4%	4%	3%	3%
grade 1 events	37	38	54	45
	0%	0%	0%	0%
grade 2 events	2260	2456	2192	1815
	3%	3%	2%	2%
grade 3 events	867	946	853	823
	1%	1%	1%	1%
grade 4 events	861	899	925	870
	1%	1%	1%	1%
grade 5 events	3507	3528	3392	3668
	5%	4%	4%	4%
grade 6 events	1816	2130	1683	1736
	2%	2%	2%	2%
grade 7 events	57825	60547	61440	63542
	82%	81%	83%	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	205.054484	205.0858224308825	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.894571	-28.89168312946222	Alternating exposures requested	N	N
[deg] Pointing Roll	335.540371	335.7641955613626	[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)	672563611.184000	672562395.96494			
Observation start date	2019-04-25T07:12:22	2019-04-25T06:53:15			
[s] Observation end time (MET)	672573611.184000	672574687.25318			
Observation end date	2019-04-25T09:59:02	2019-04-25T10:18:07			
Read mode	TIMED	TIMED			

2.3 Aspect



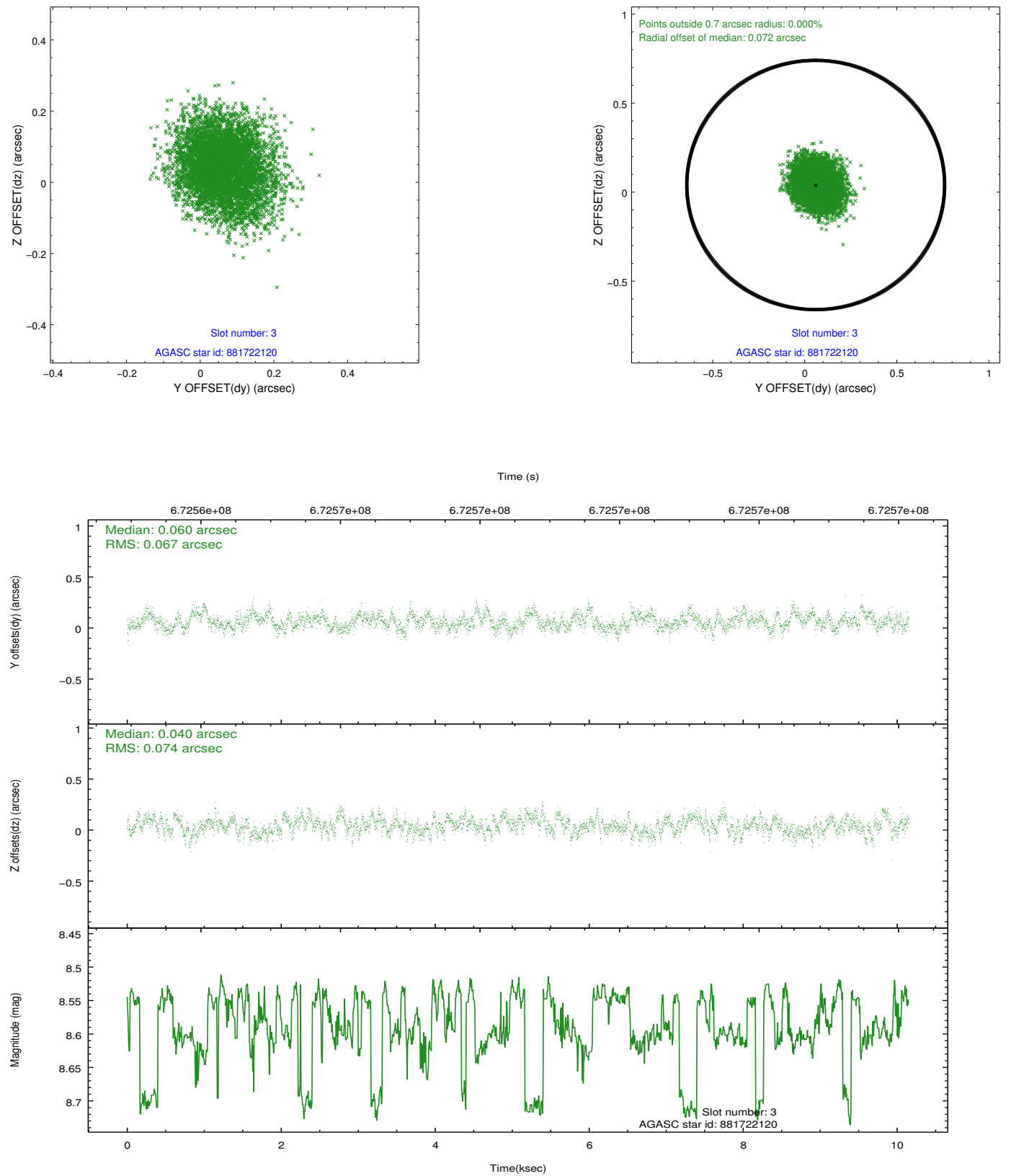


Slot Statistics

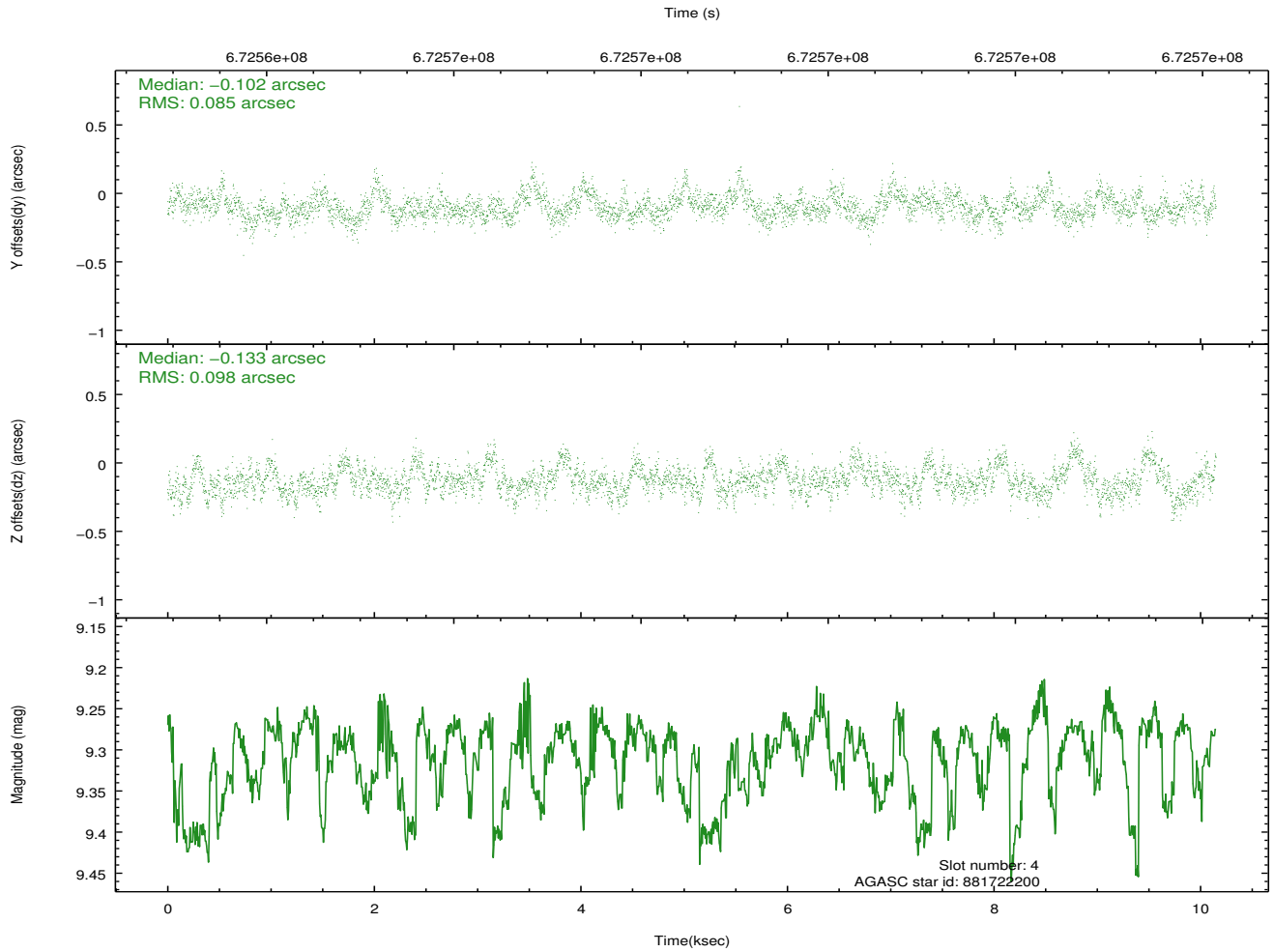
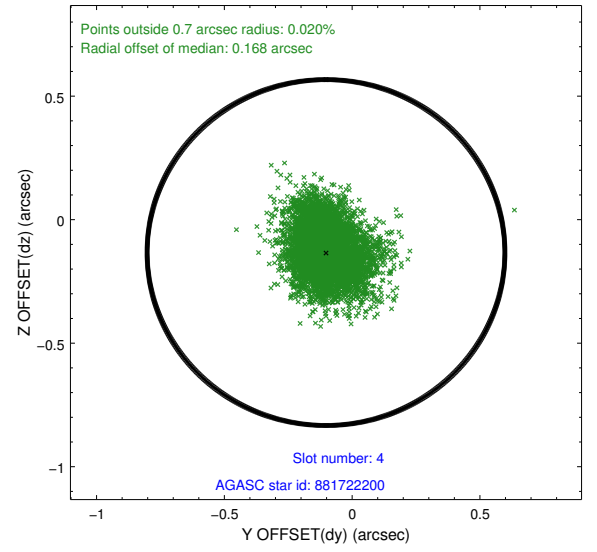
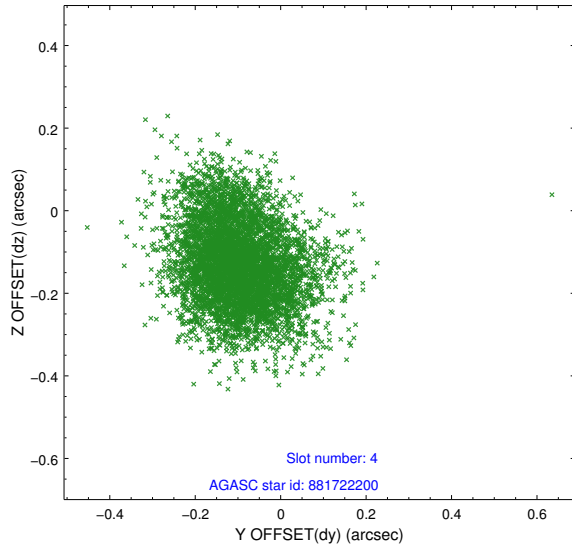
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	2476	1.000	0.101	-0.109	0.011	0.034	0.000000	0.000000	925.16	-844
1	FID		ACIS-I-5	7.17	2476	1.000	-0.494	0.009	0.011	0.022	0.000000	0.000000	-1823.41	1052
2	FID		ACIS-I-6	7.19	2475	1.000	0.301	0.170	0.014	0.027	0.000000	0.000000	390.13	1697
3	GUIDE	used	881722120	8.59	4951	1.000	0.060	0.040	0.107	0.171	205.431884	-28.762216	886.37	924
4	GUIDE	used	881722200	9.31	4949	1.000	-0.102	-0.133	0.137	0.226	205.527502	-28.861249	1308.87	723
5	GUIDE	used	881726640	8.94	4945	1.000	-0.022	-0.309	0.153	0.258	205.738004	-28.951100	2045.81	700
6	GUIDE	used	881732240	8.96	4946	1.000	0.044	0.095	0.145	0.243	205.575321	-29.125089	1835.94	-80
7	GUIDE	used	881723736	7.76	4951	1.000	0.007	0.317	0.197	0.333	205.257294	-29.730831	1824.49	-2478

2.4 Star Slots

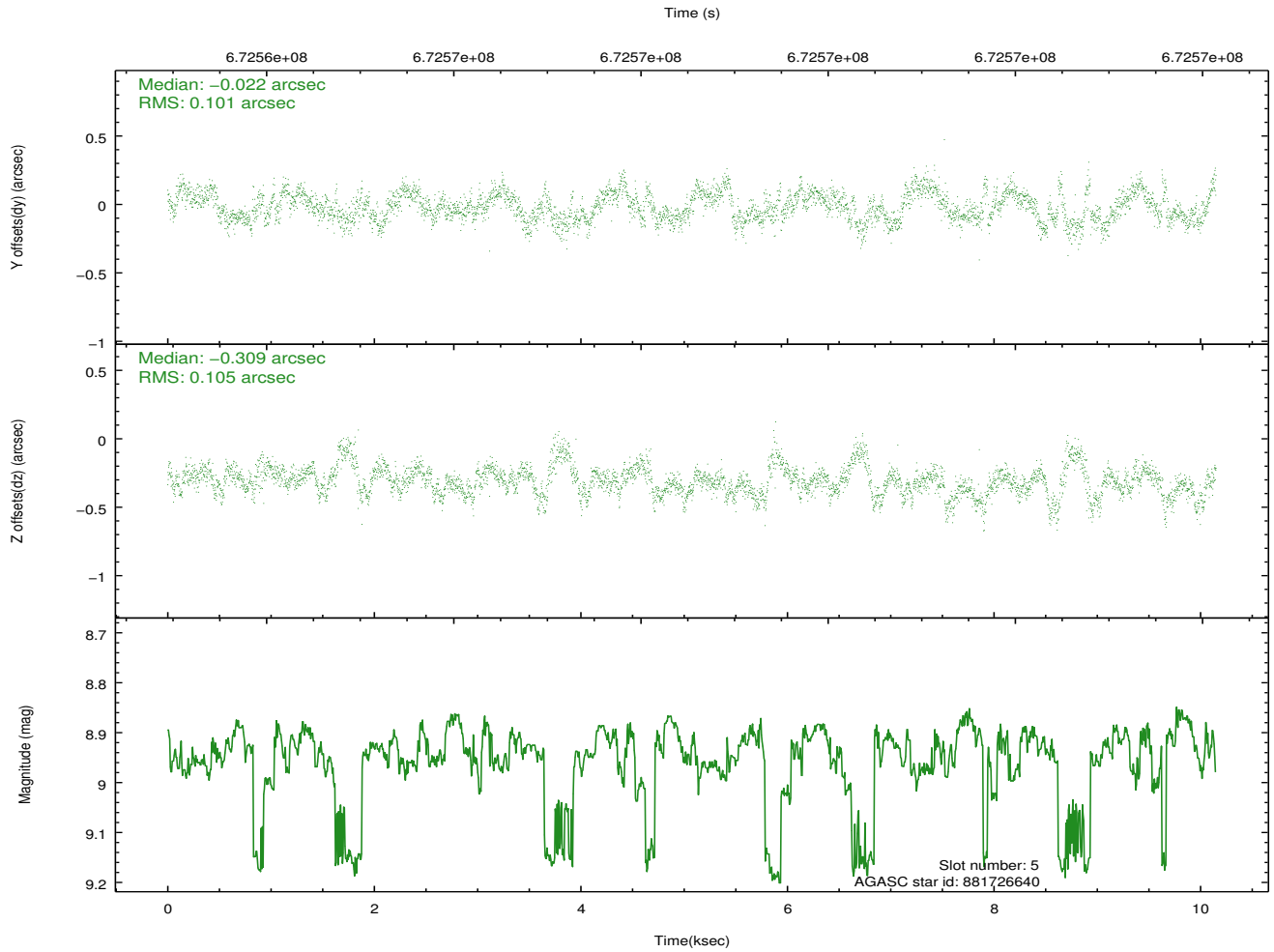
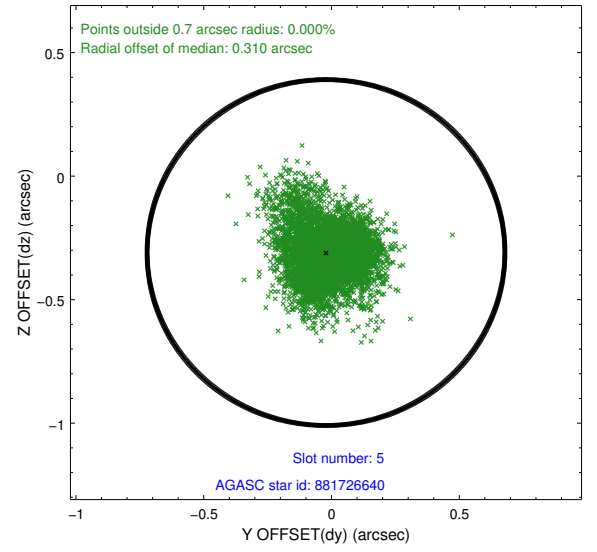
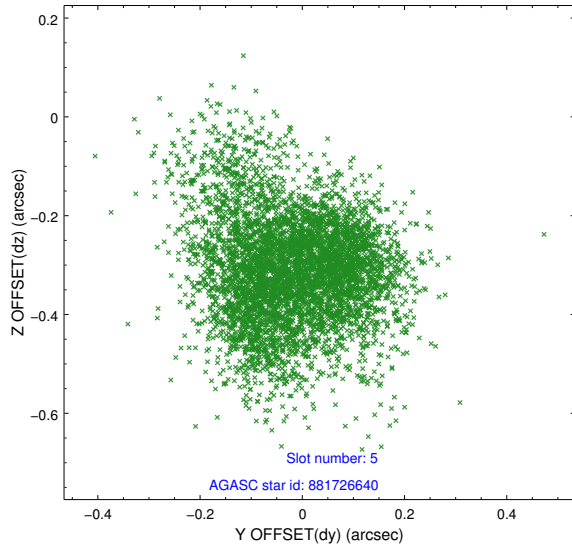
2.4.1 Slot 3



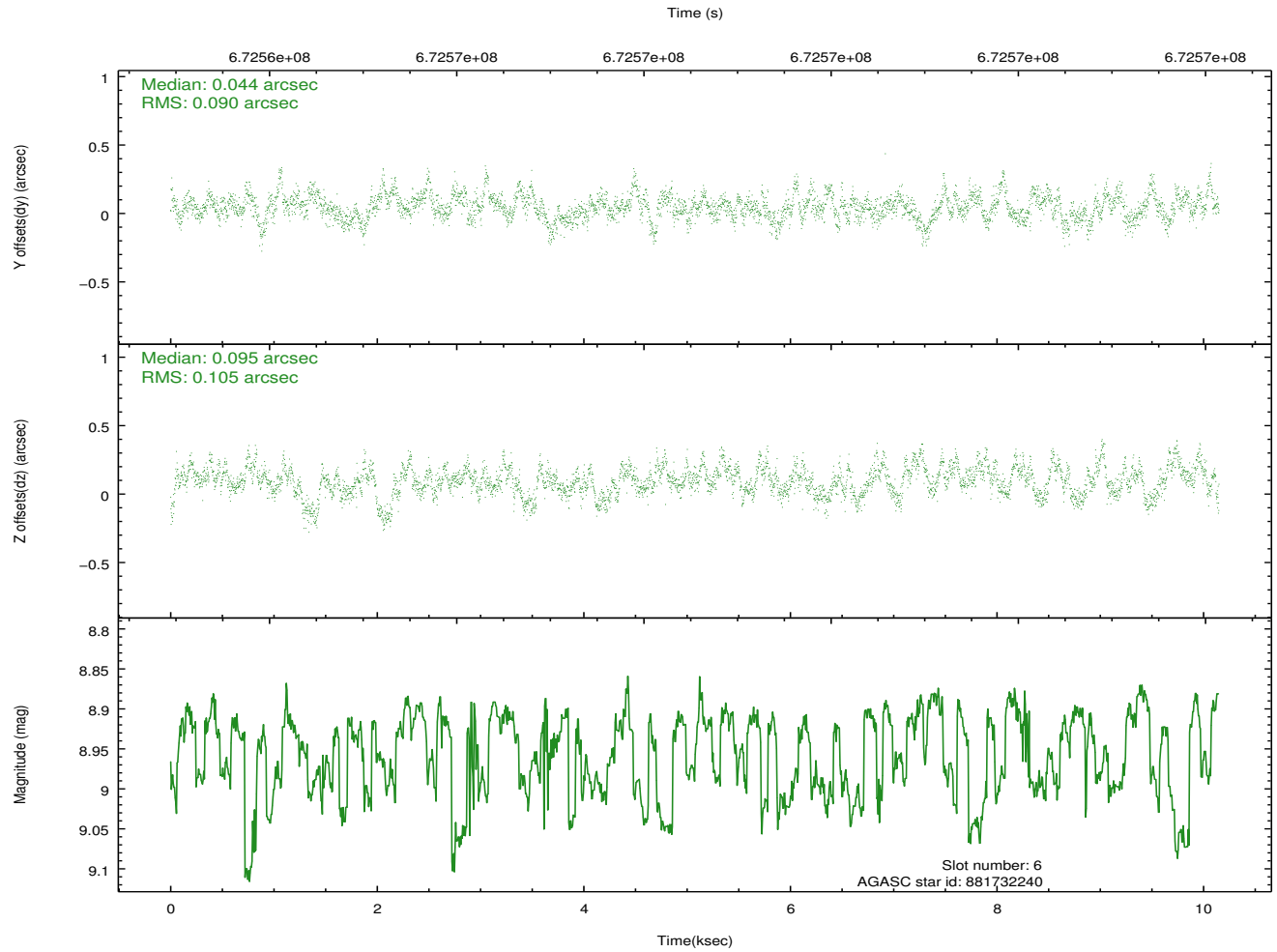
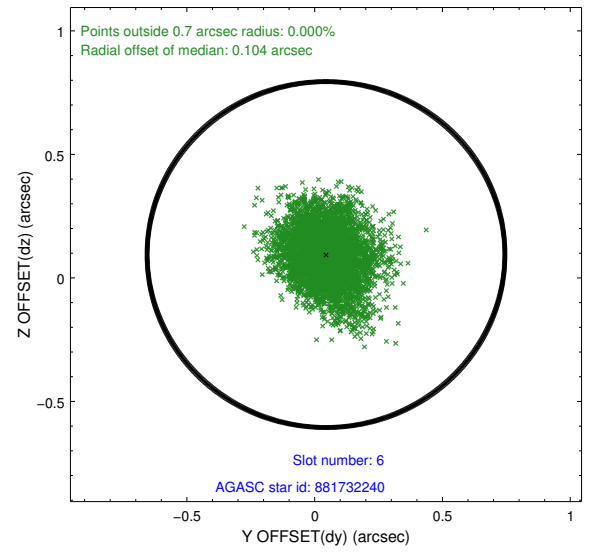
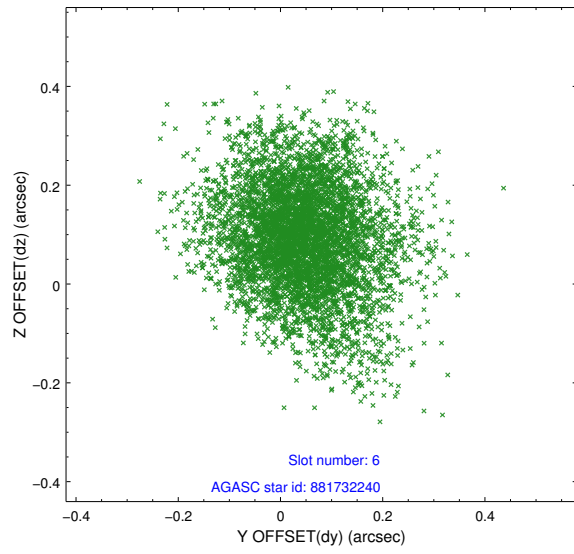
2.4.2 Slot 4



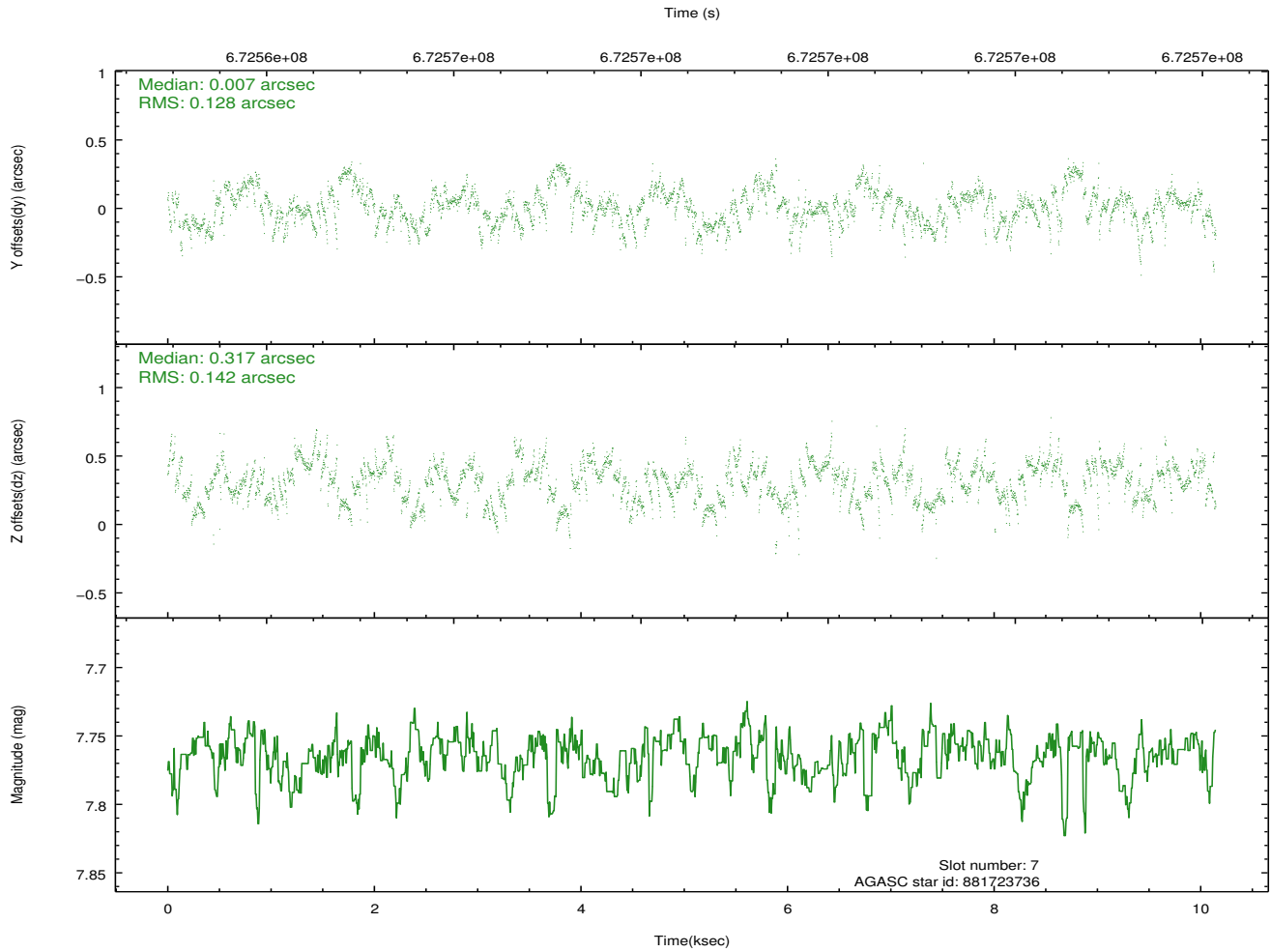
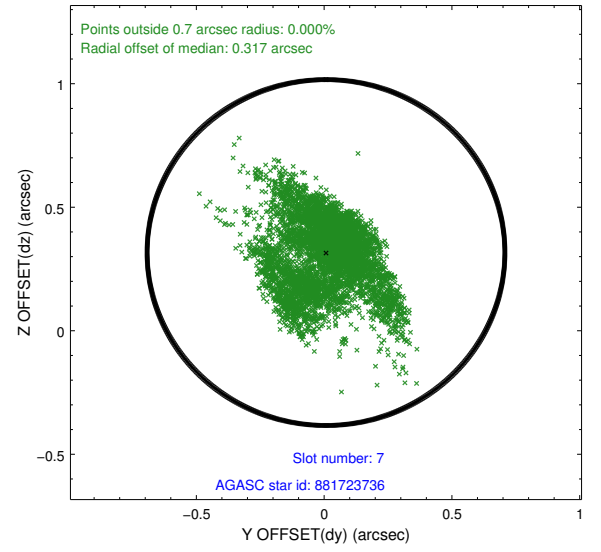
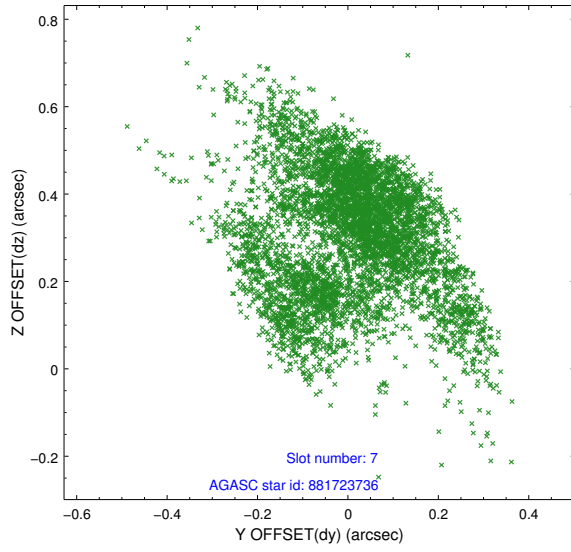
2.4.3 Slot 5



2.4.4 Slot 6

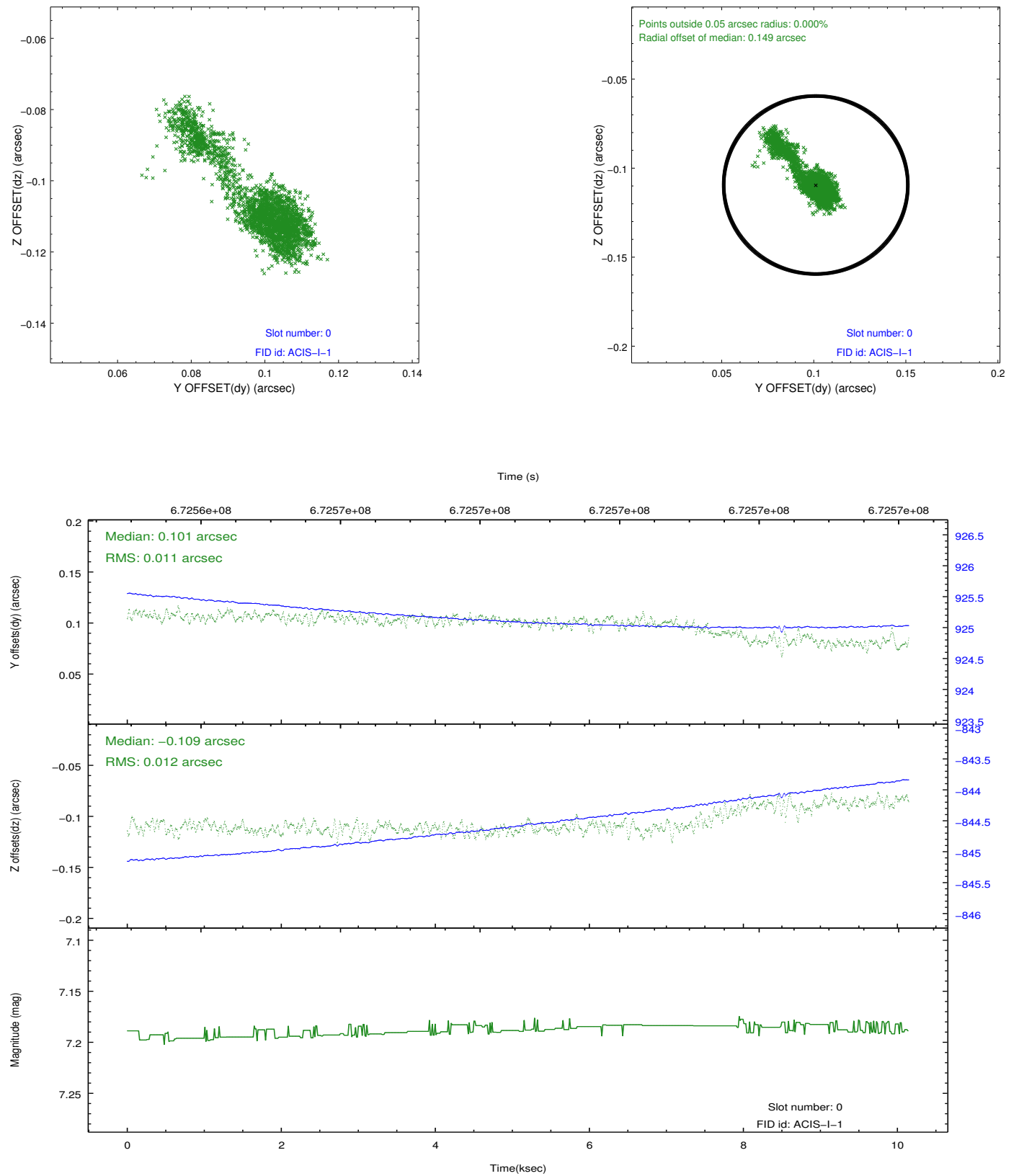


2.4.5 Slot 7

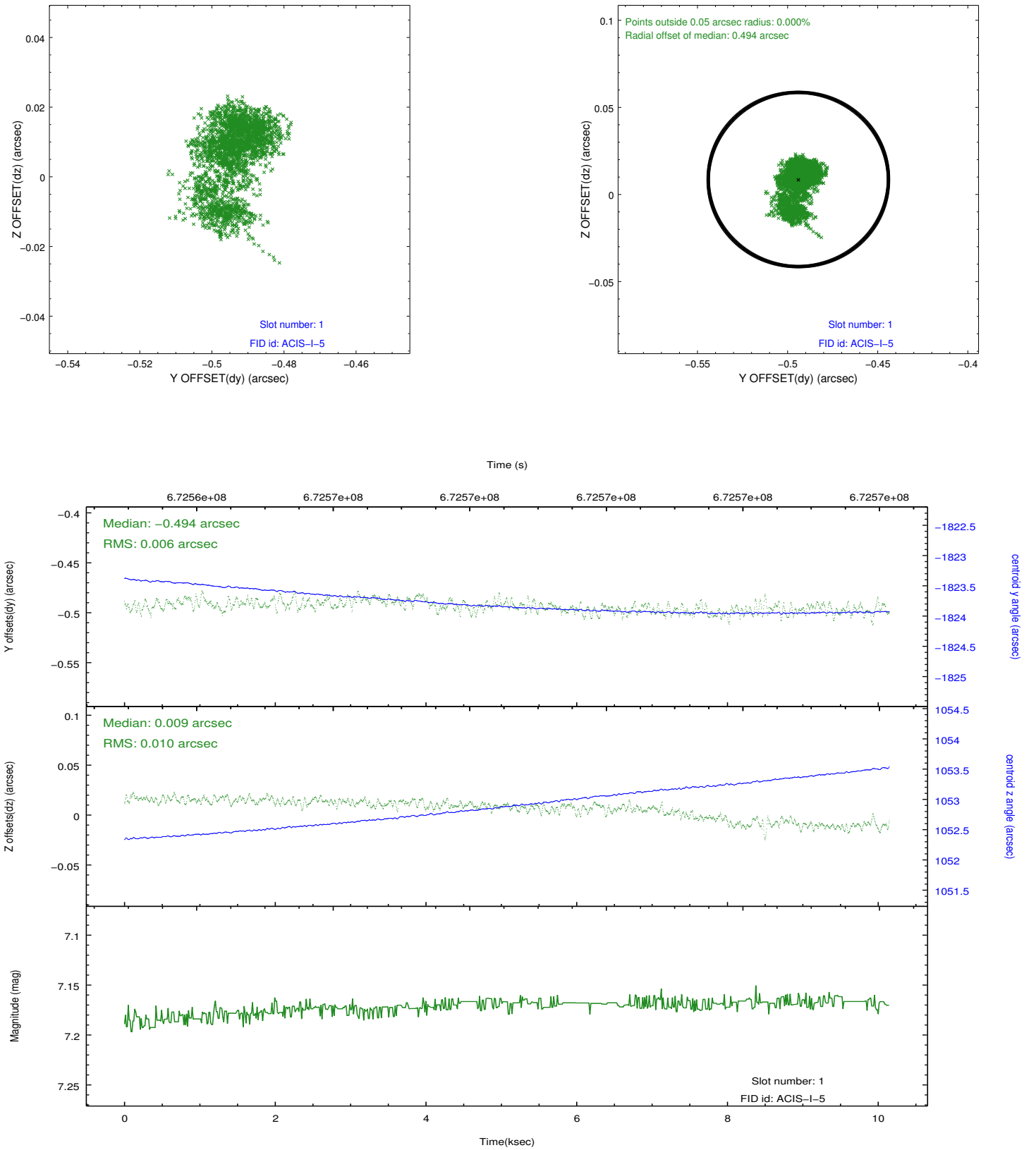


2.5 FID Slots

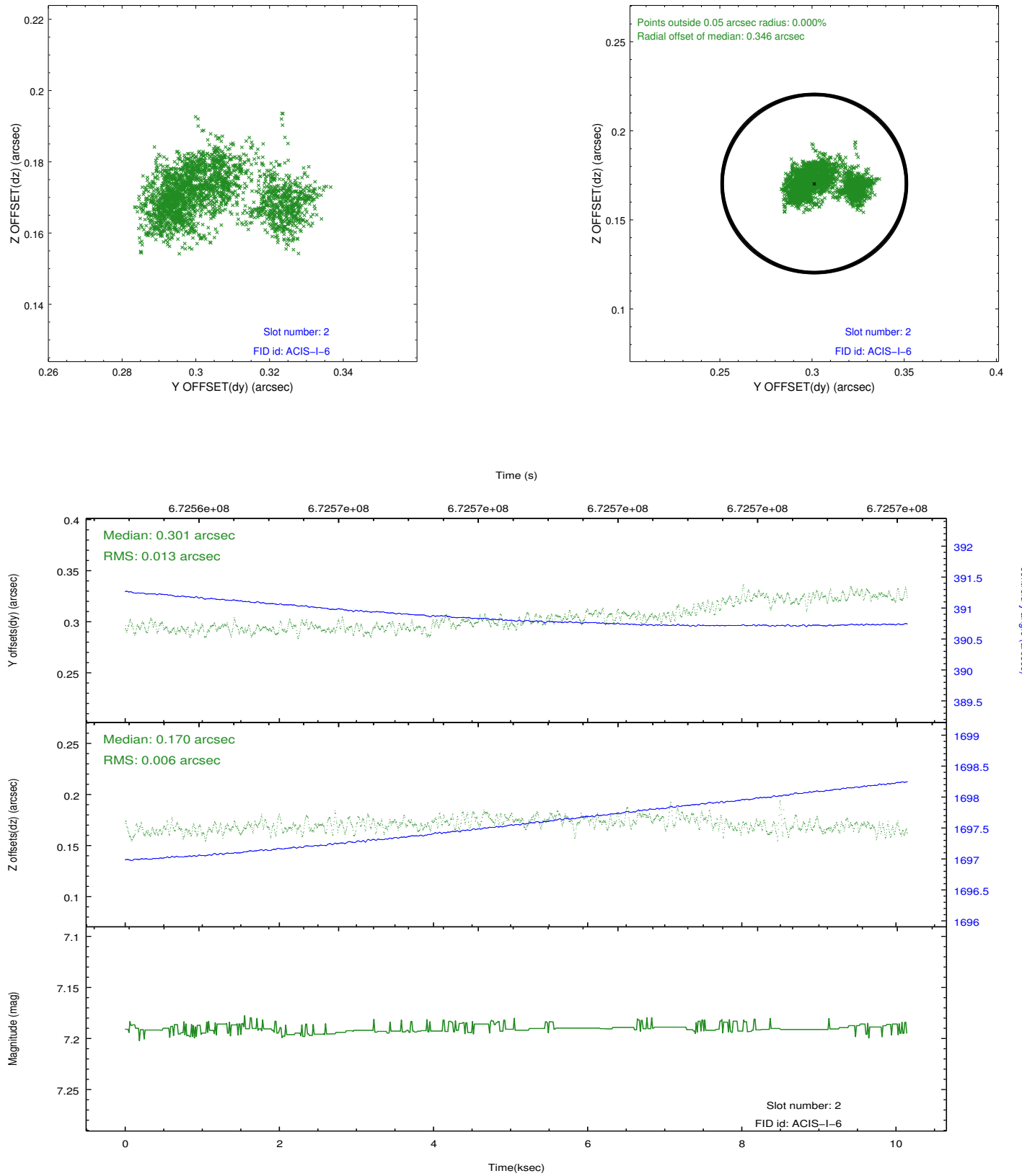
2.5.1 Slot 0



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)	2019.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068519348025

A.2 Comments