

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21605 - L2 Version 1
Chandra X-Ray Center

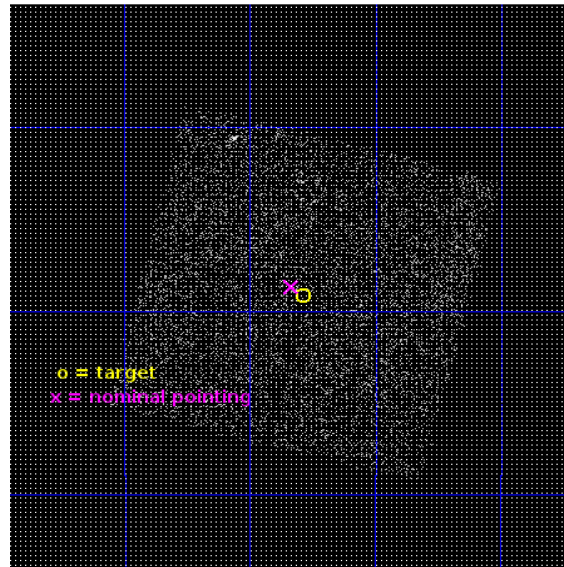
L2 Processing Date : Jul 8 2019

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1 Front

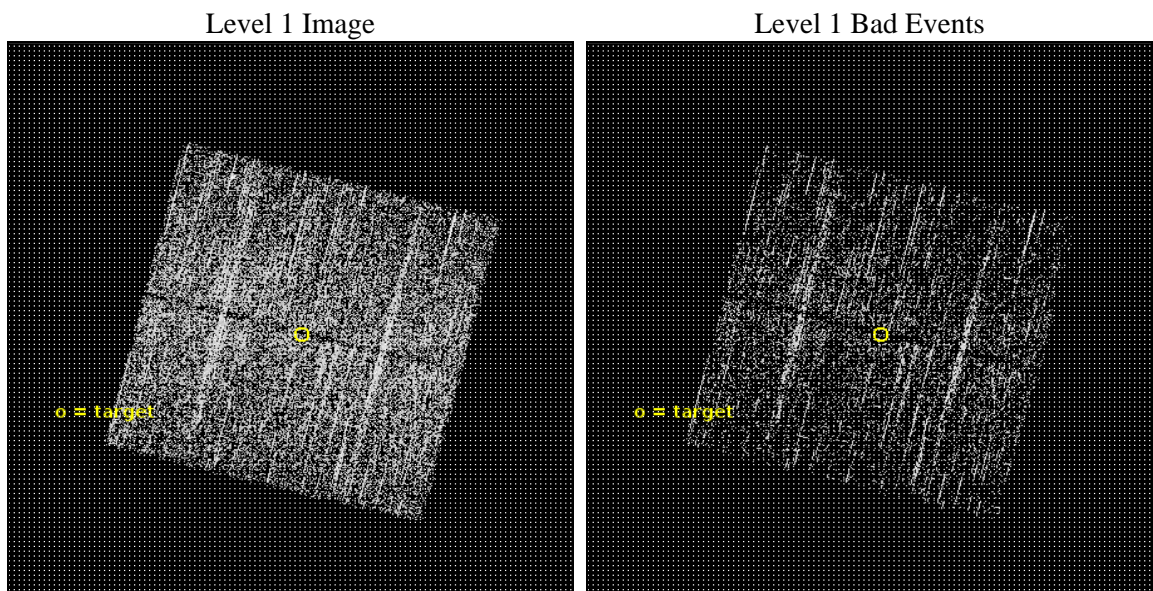
seq_num	300437	Sequence number
obs_id	21605	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.32128	Observer's specified target RA [deg]
dec_targ	-28.819648	Observer's specified target Dec [deg]
ra_nom	265.33369787073	Nominal RA [deg]
dec_nom	-28.811306810173	Nominal Dec [deg]
roll_nom	284.21468961151	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.3988180161	Sum of GTIs [s]
livetime	1883.4641825159	Livetime [s]
ontime0	1908.2756980658	Sum of GTIs [s]
ontime1	1908.3167380095	Sum of GTIs [s]
ontime2	1908.3577780724	Sum of GTIs [s]
ontime3	1908.3988180161	Sum of GTIs [s]
l2events	6482	Number of level 2 events



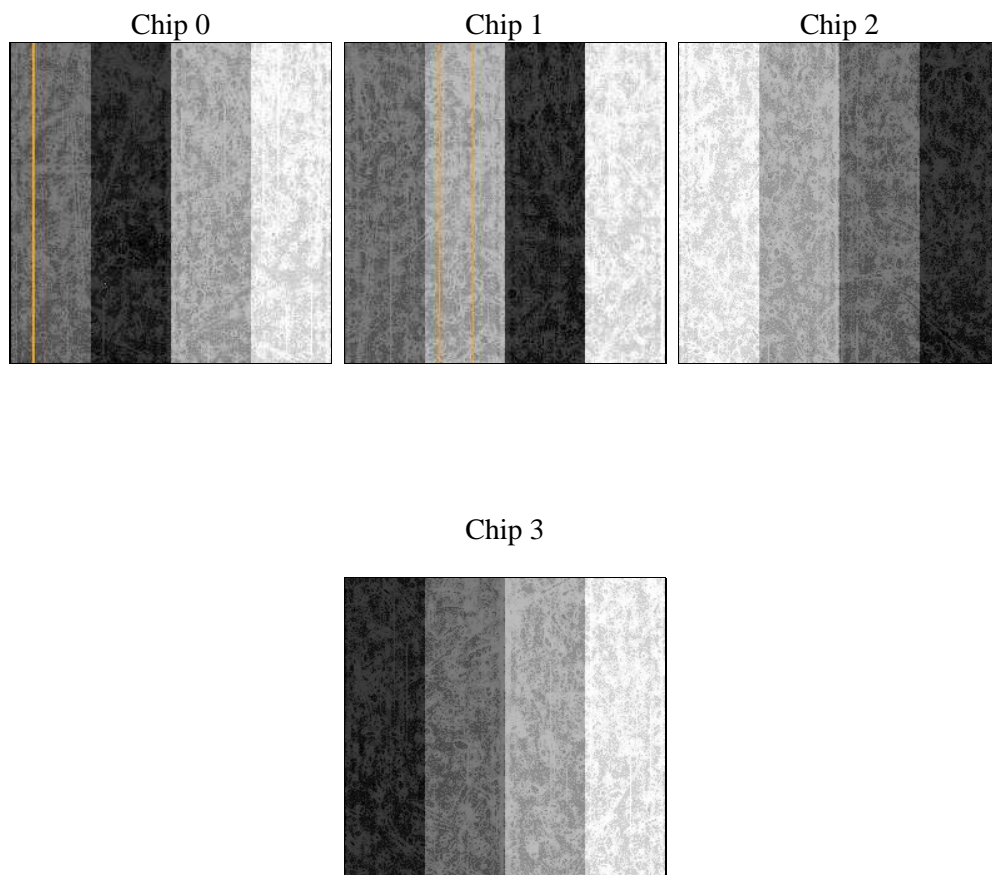
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.3988180161	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.2756980658	Sum of GTIs [s]
date	2019-07-08T11:14:12	Date and time of file creation	ontime1	1908.3167380095	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.3577780724	Sum of GTIs [s]
			ontime3	1908.3988180161	Sum of GTIs [s]
			l1events	55352	Number of level 1 events

2.1.4 Events

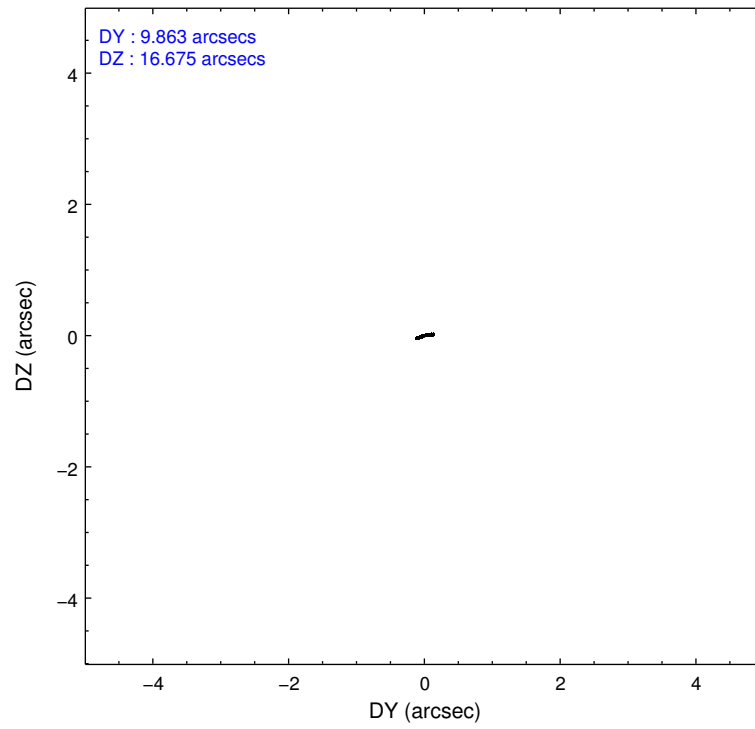
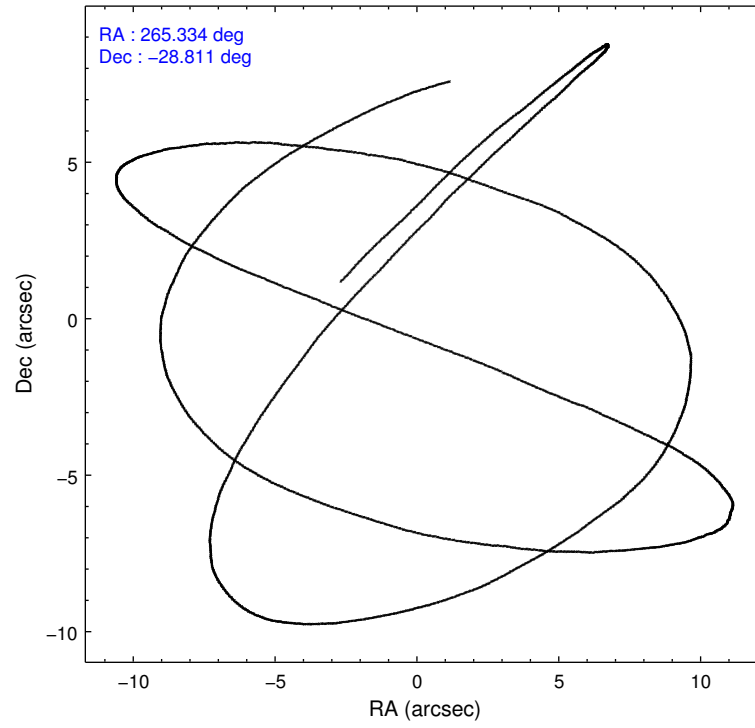
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	14052	13189	13526	14585
rejected events	12196	11214	11686	12712
rejected %	86%	85%	86%	87%

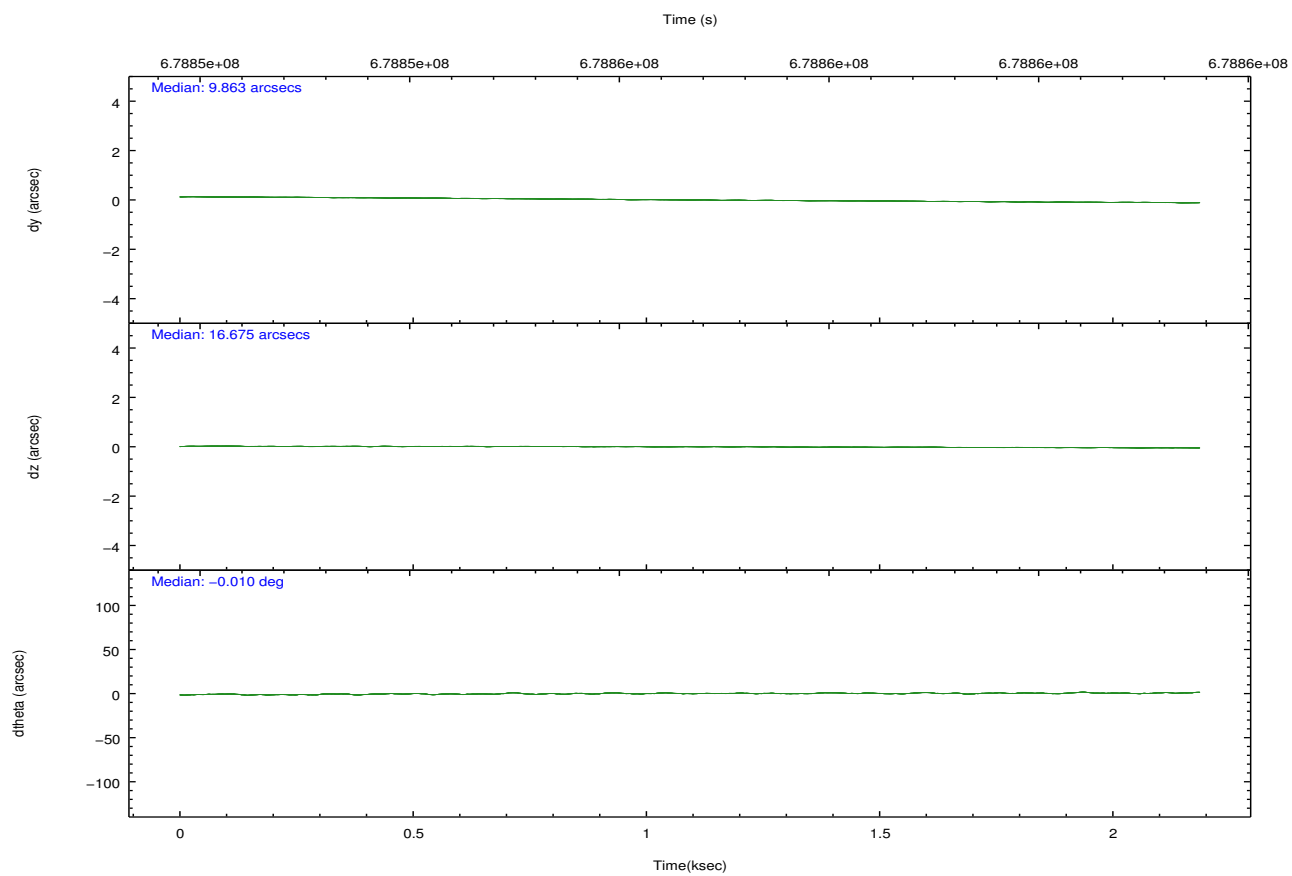
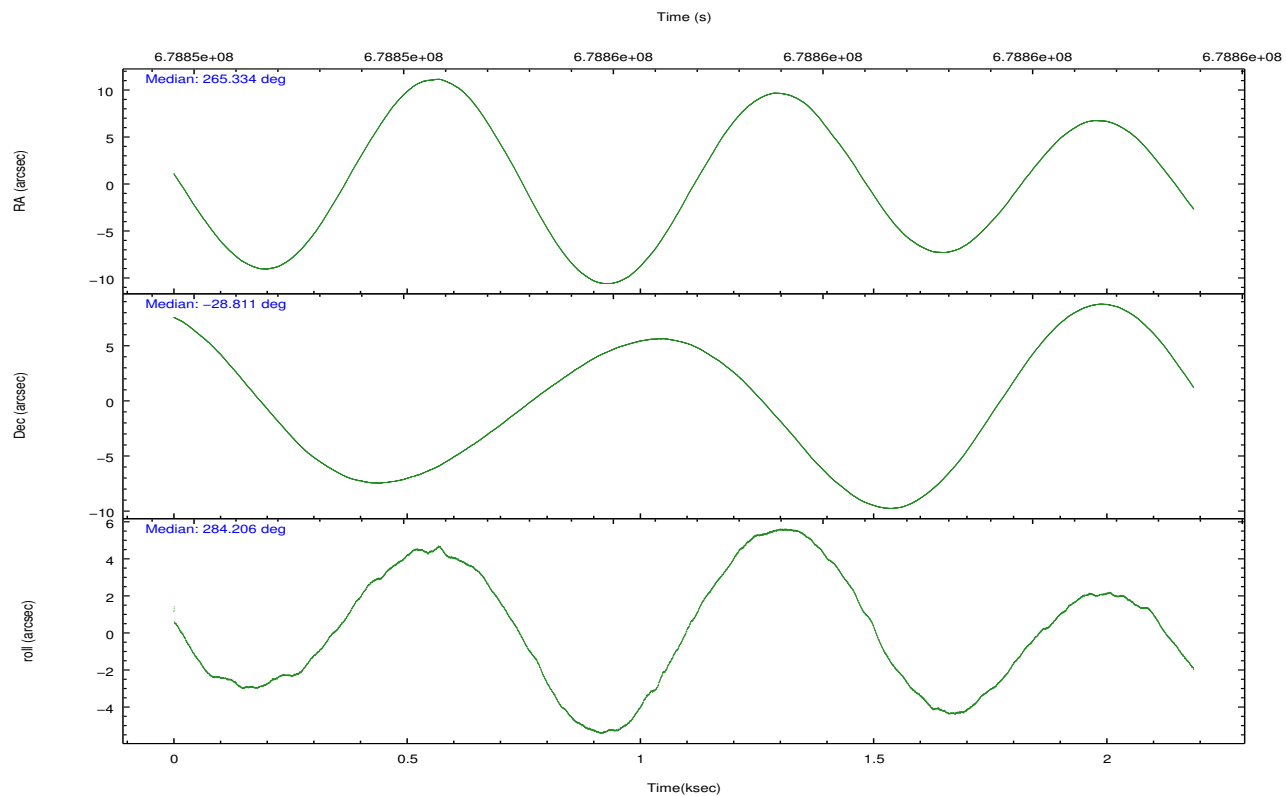
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	695	766	727	808
	4%	5%	5%	5%
grade 1 events	11	8	7	9
	0%	0%	0%	0%
grade 2 events	432	471	429	392
	3%	3%	3%	2%
grade 3 events	179	167	198	152
	1%	1%	1%	1%
grade 4 events	170	179	163	177
	1%	1%	1%	1%
grade 5 events	639	645	639	697
	4%	4%	4%	4%
grade 6 events	382	394	325	348
	2%	2%	2%	2%
grade 7 events	11544	10559	11038	12002
	82%	80%	81%	82%

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	265.311638	265.3336978707262	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.791741	-28.81130681017313	Alternating exposures requested	N	N
[deg] Pointing Roll	283.995363	284.2146896115077	[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)	678854255.184000	678853879.6547			
Observation start date	2019-07-07T02:36:26	2019-07-07T02:31:19			
[s] Observation end time (MET)	678856255.184000	678856389.36735			
Observation end date	2019-07-07T03:09:46	2019-07-07T03:13:09			
Read mode	TIMED	TIMED			

2.3 Aspect



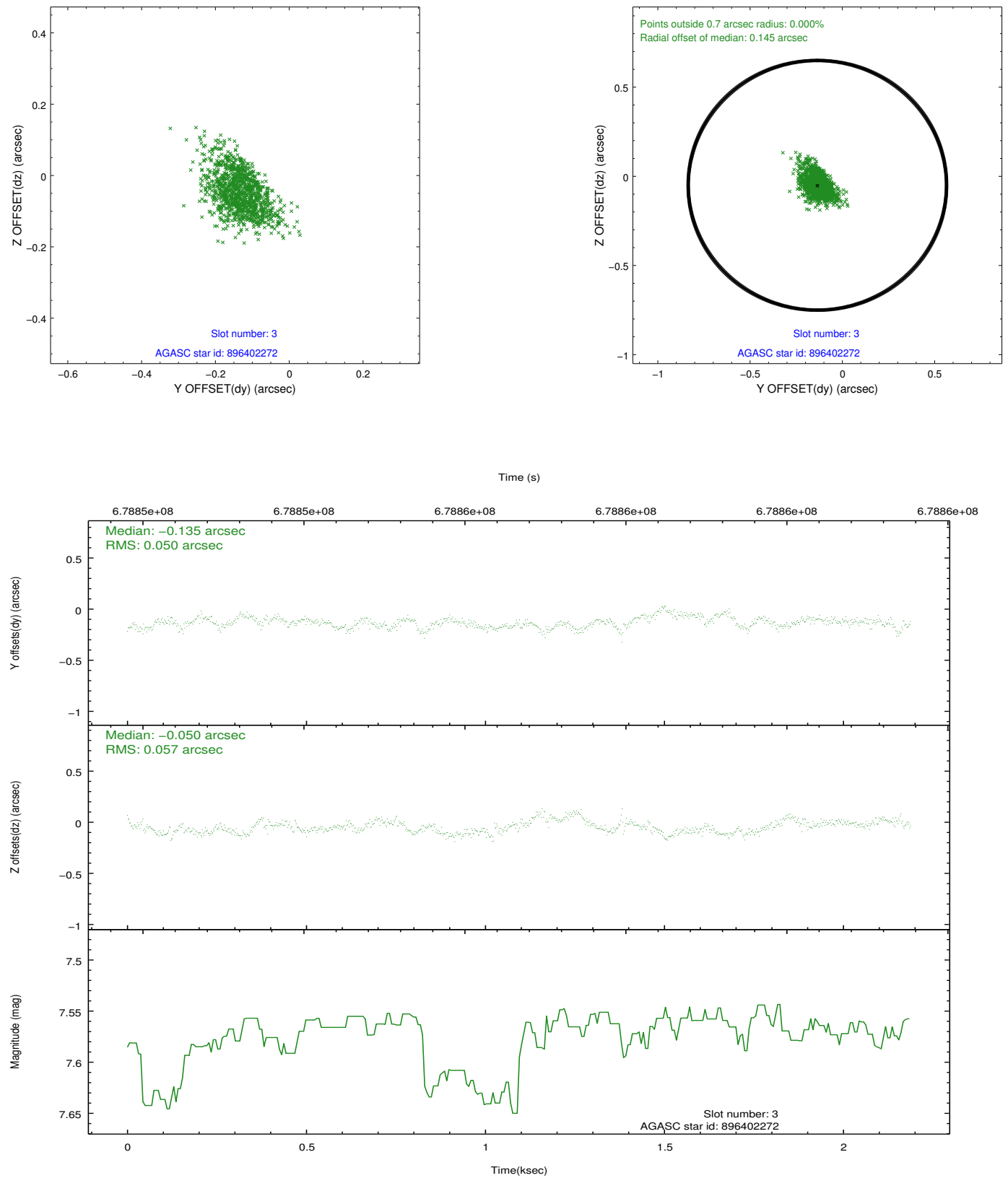


Slot Statistics

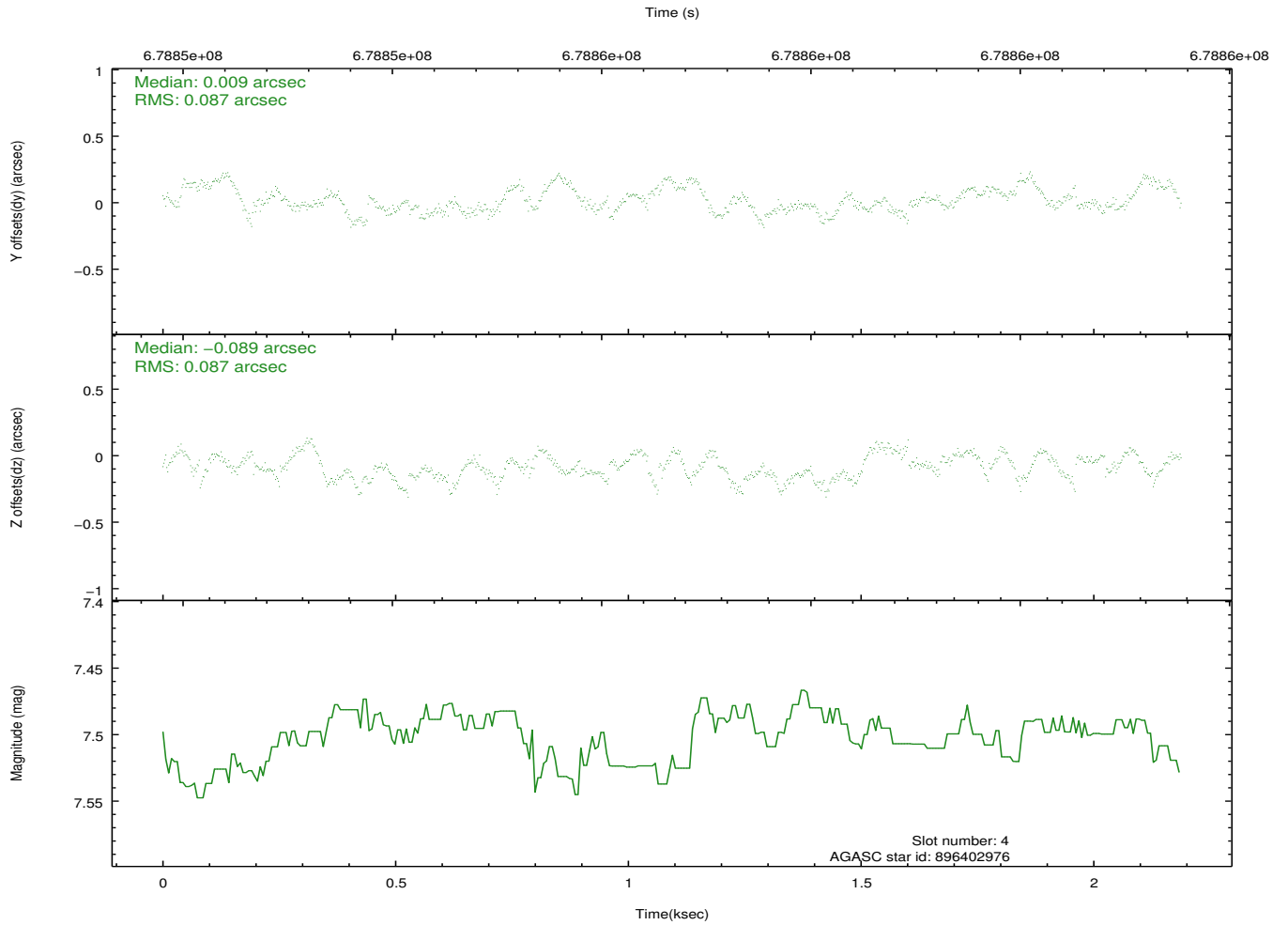
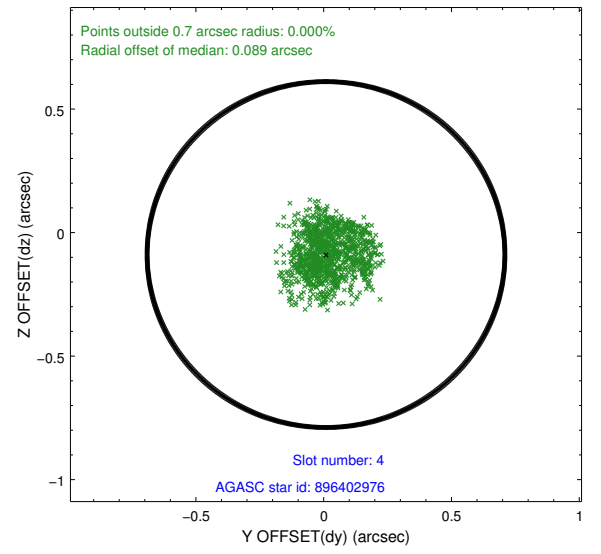
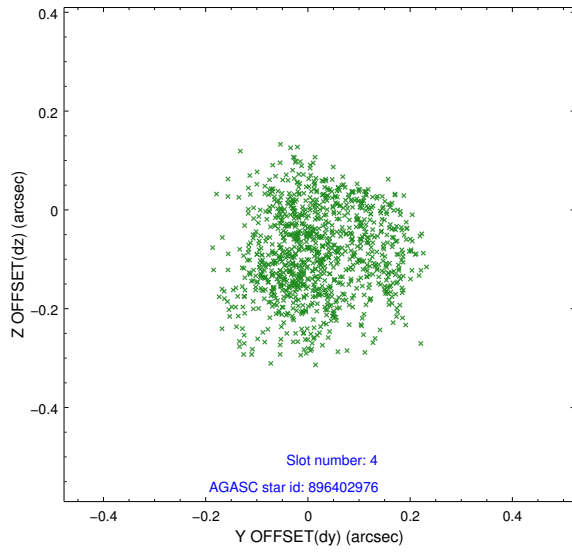
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.10	534	1.000	0.198	-0.203	0.006	0.011	0.000000	0.000000	930.05	-840
1	FID		ACIS-I-3	7.30	534	1.000	-0.067	0.167	0.007	0.012	0.000000	0.000000	48.95	-974
2	FID		ACIS-I-5	7.07	534	1.000	-0.222	0.109	0.006	0.011	0.000000	0.000000	-1818.73	1055
3	GUIDE	used	896402272	7.57	1067	1.000	-0.135	-0.050	0.077	0.138	265.637294	-28.313189	-1420.24	1417
4	GUIDE	used	896402976	7.50	1068	1.000	0.009	-0.089	0.136	0.199	265.099474	-28.923203	297.85	-761
5	GUIDE	used	896404376	6.71	1068	1.000	0.197	-0.190	0.095	0.205	264.835179	-29.530972	2226.19	-2093
6	GUIDE	used	896404568	7.83	1068	1.000	-0.176	-0.025	0.076	0.136	265.687293	-28.431080	-967.93	1465
7	GUIDE	used	896405616	7.83	1067	1.000	0.094	0.356	0.100	0.150	264.752771	-28.412560	-1747.18	-1388

2.4 Star Slots

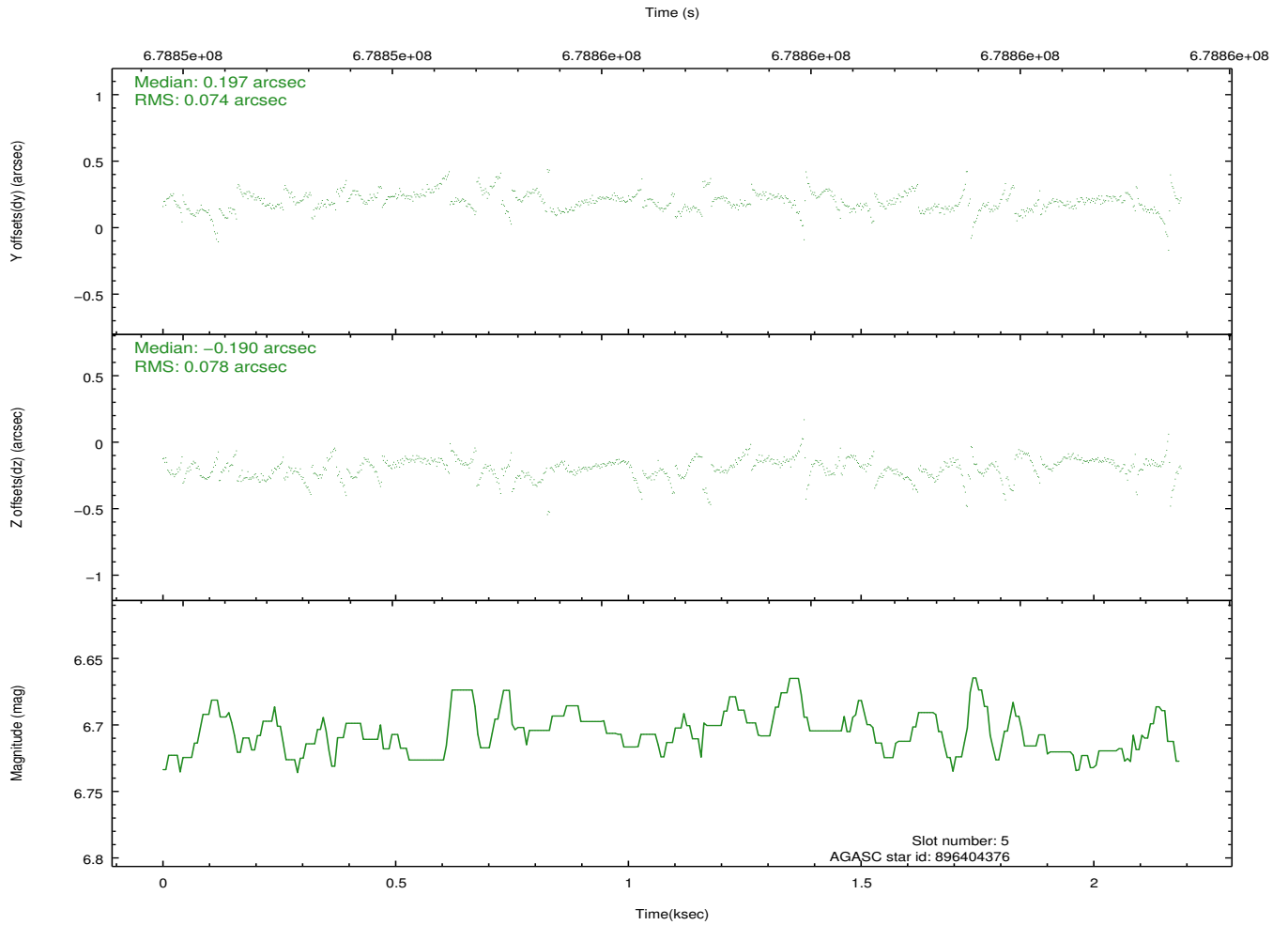
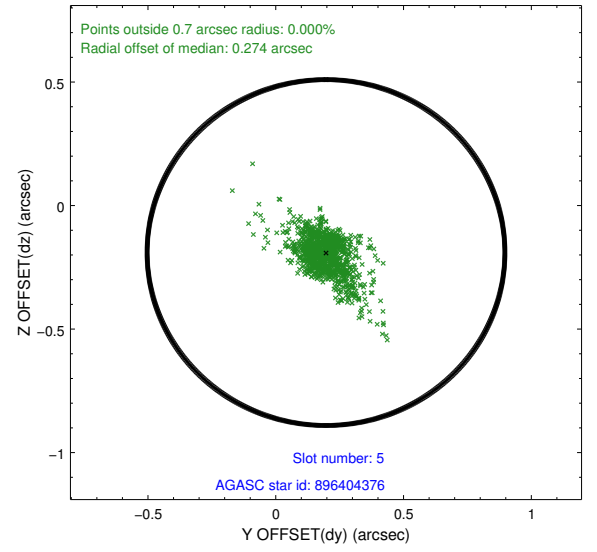
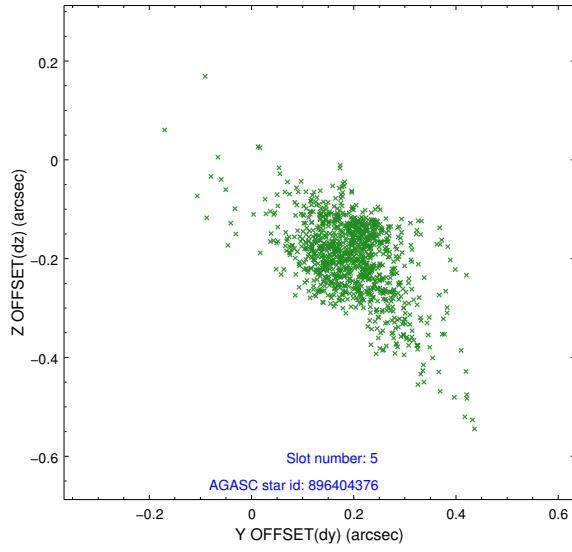
2.4.1 Slot 3



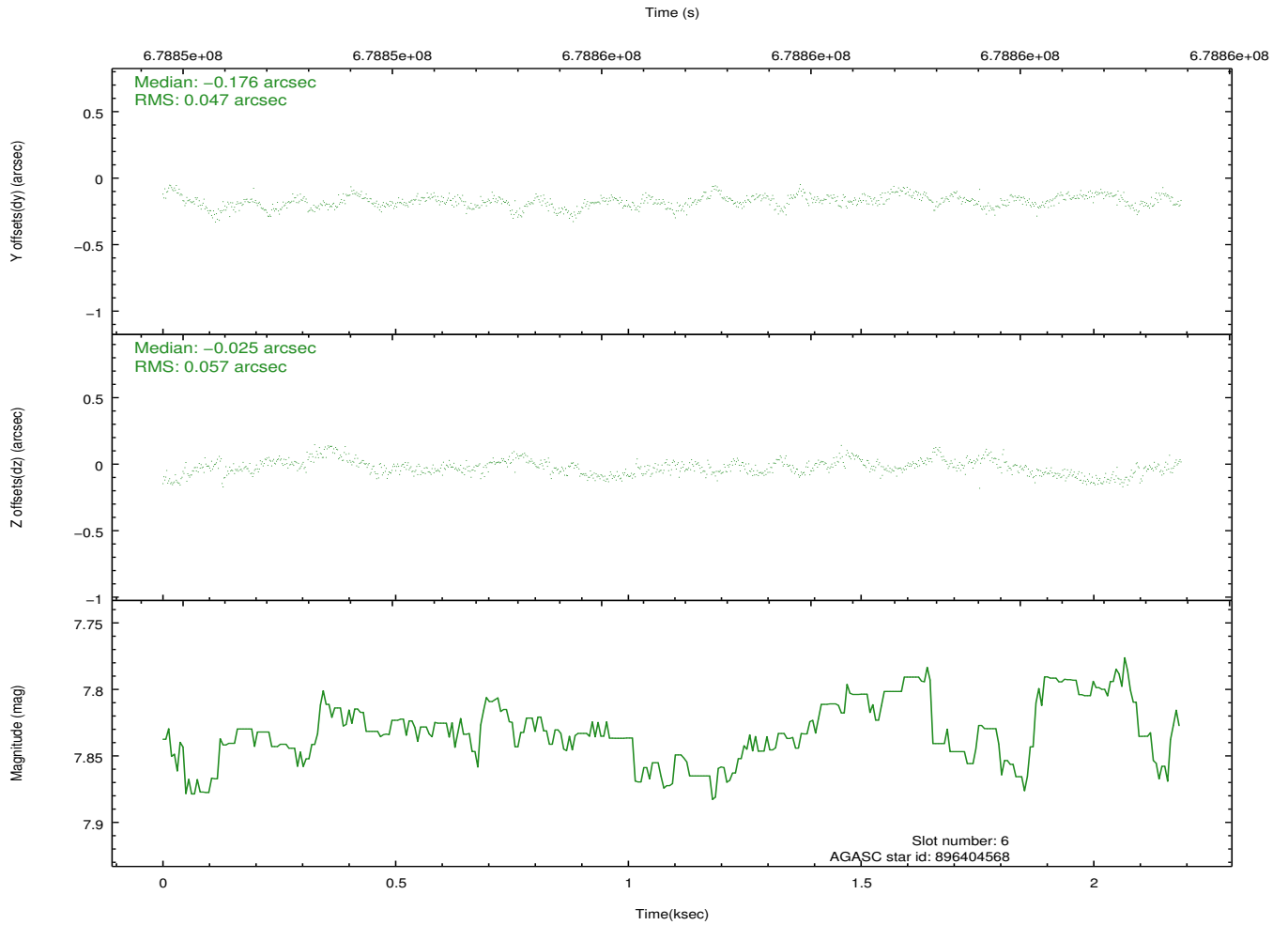
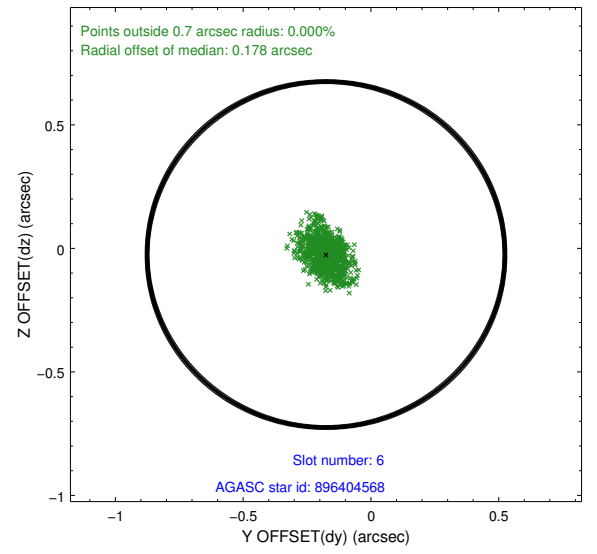
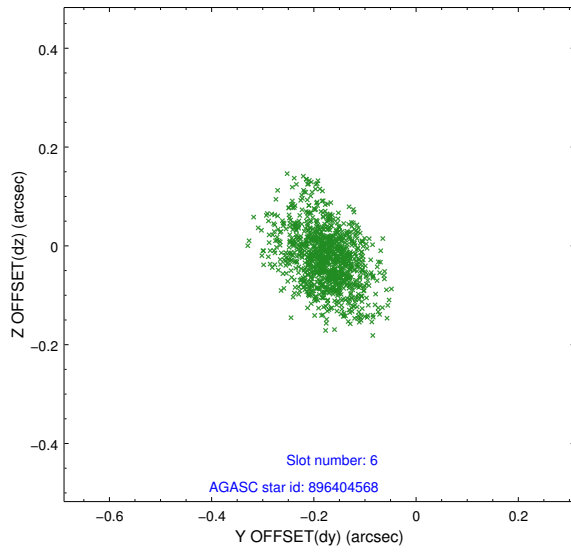
2.4.2 Slot 4



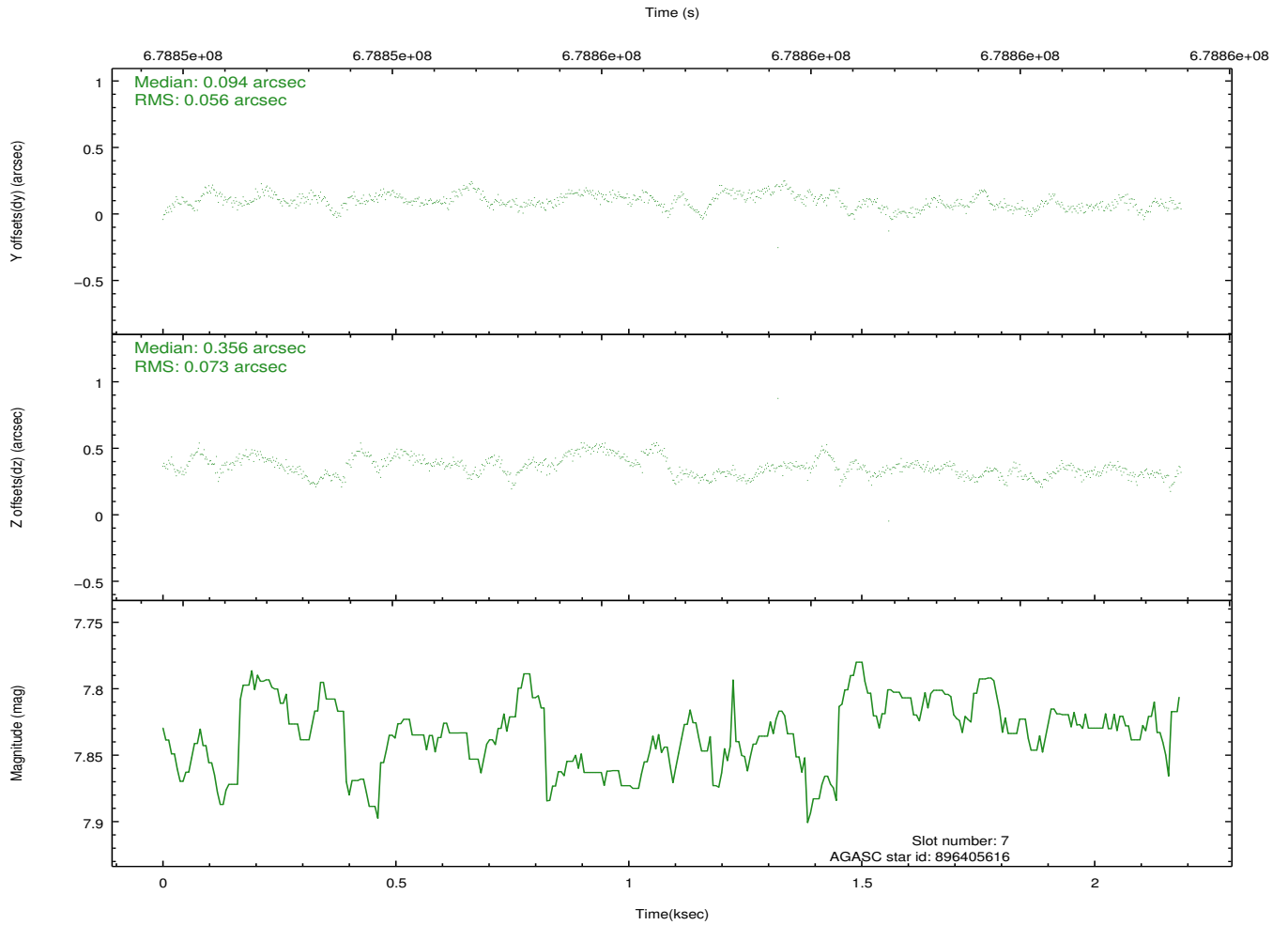
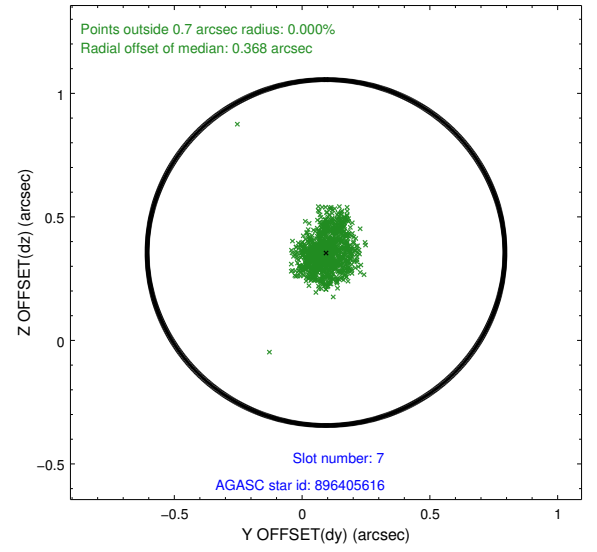
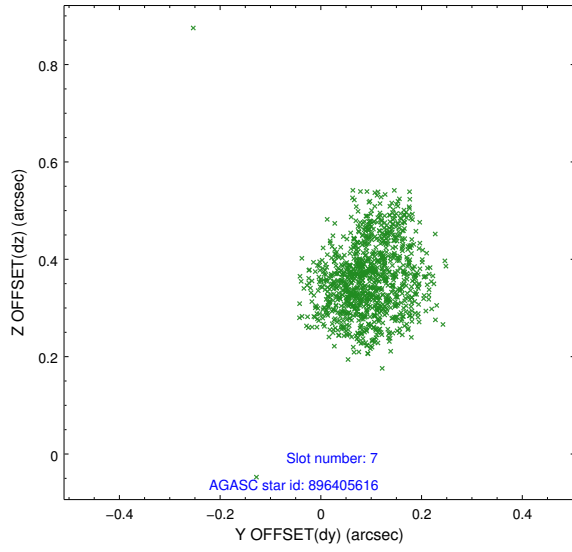
2.4.3 Slot 5



2.4.4 Slot 6

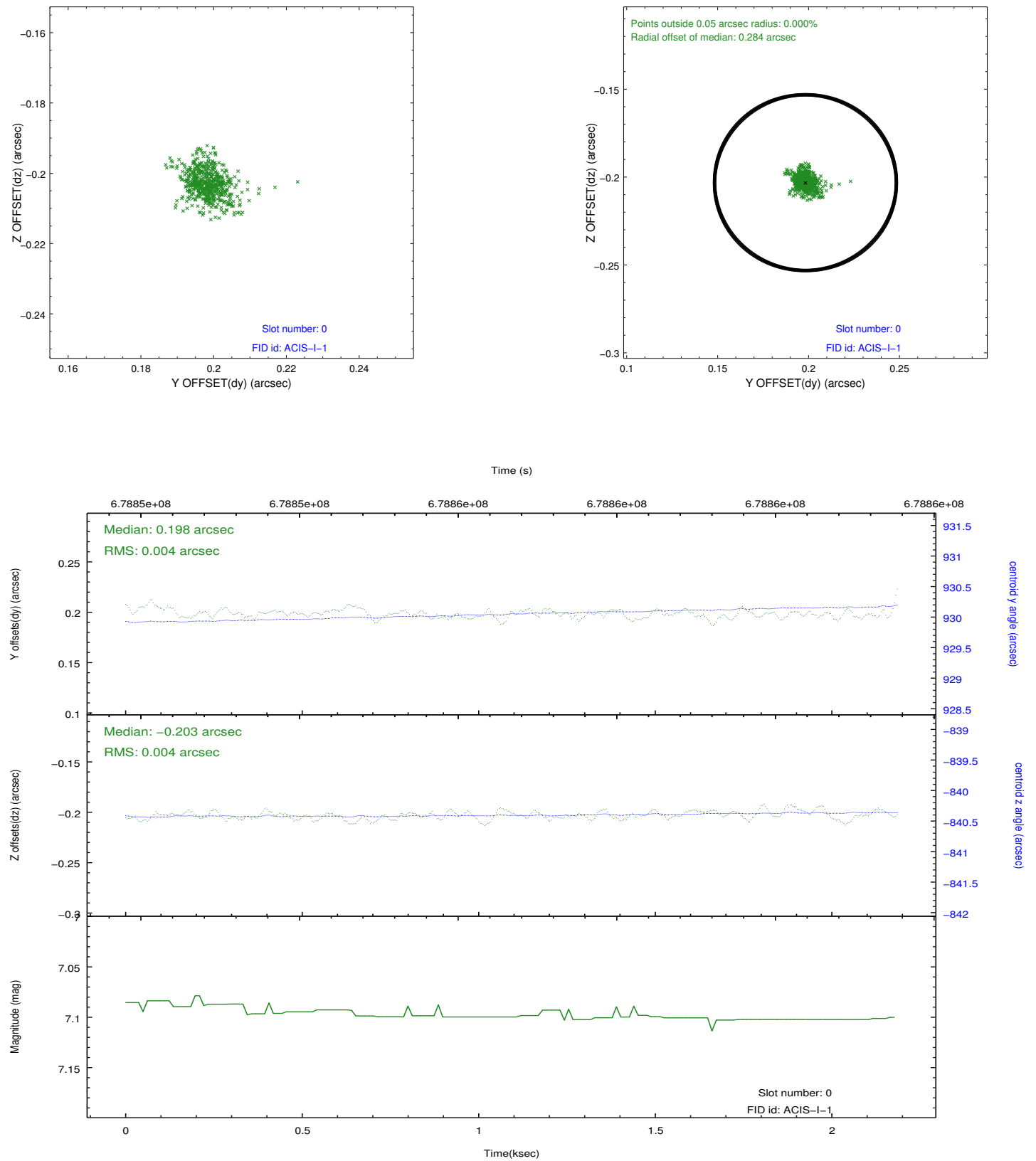


2.4.5 Slot 7

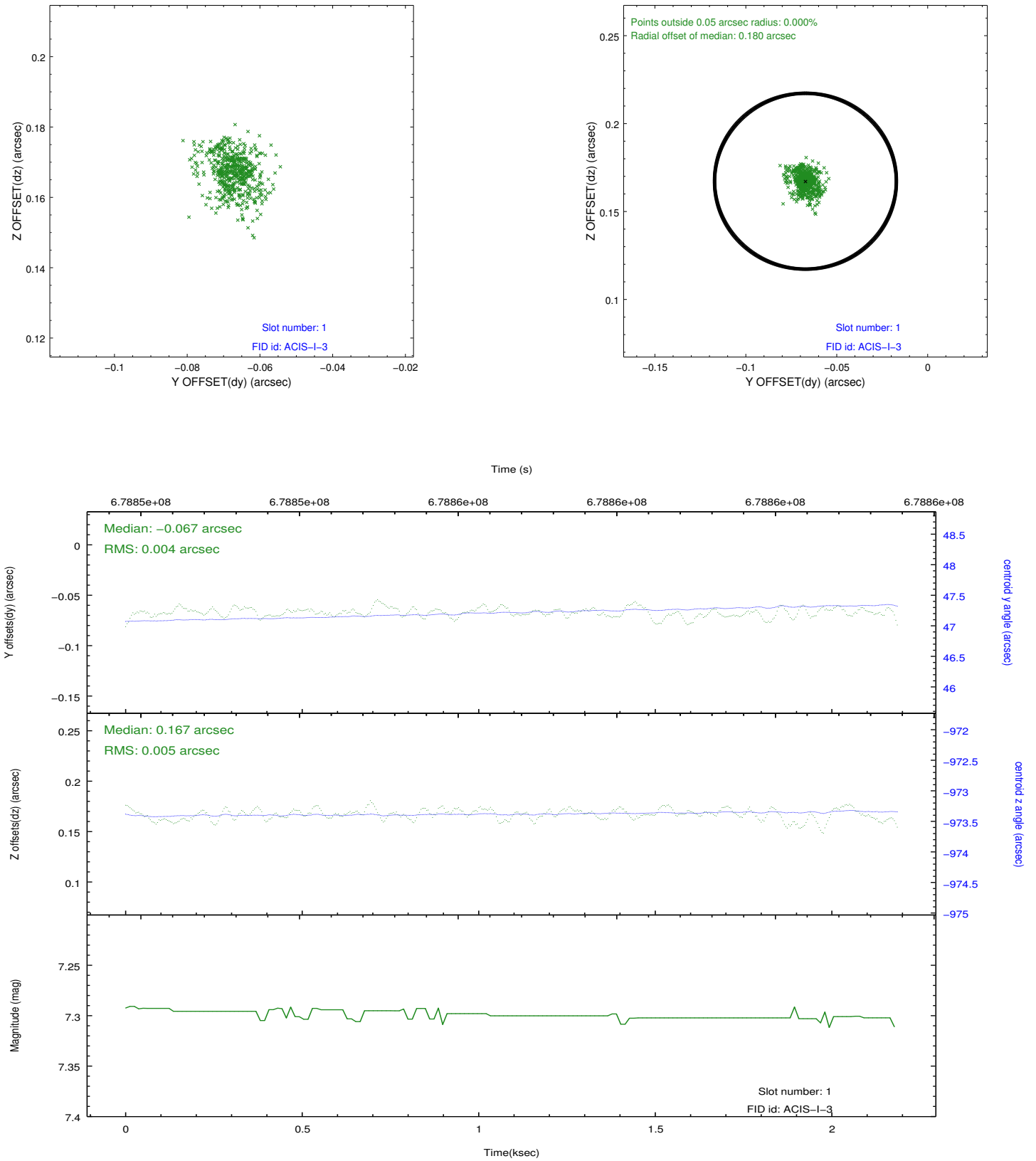


2.5 FID Slots

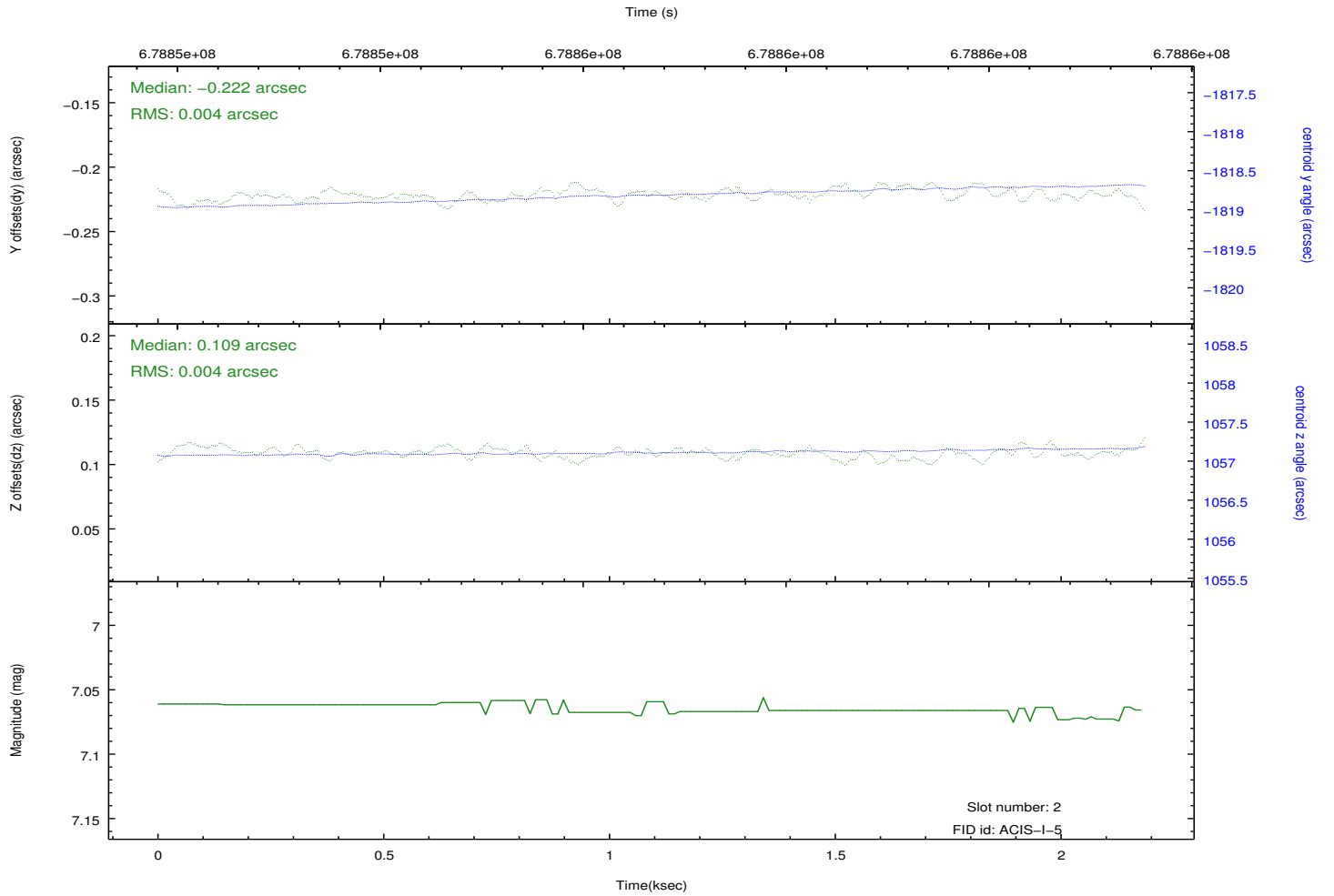
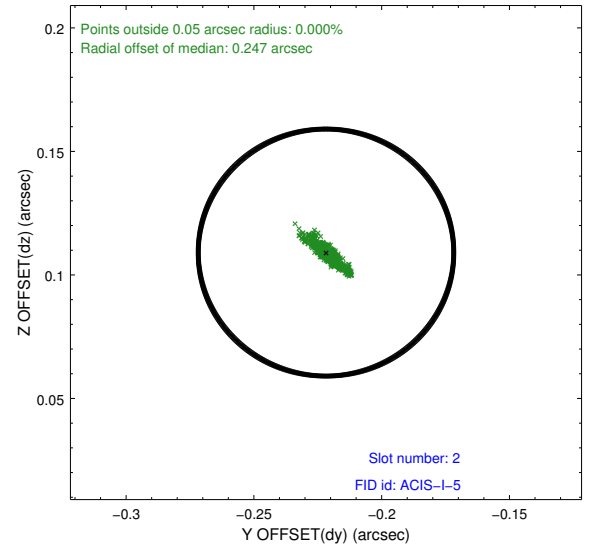
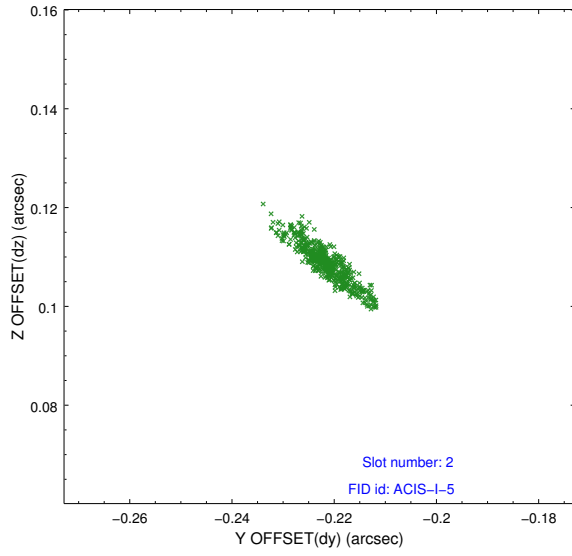
2.5.1 Slot 0



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)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9083988180161

A.2 Comments