

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21607 - L2 Version 1
Chandra X-Ray Center

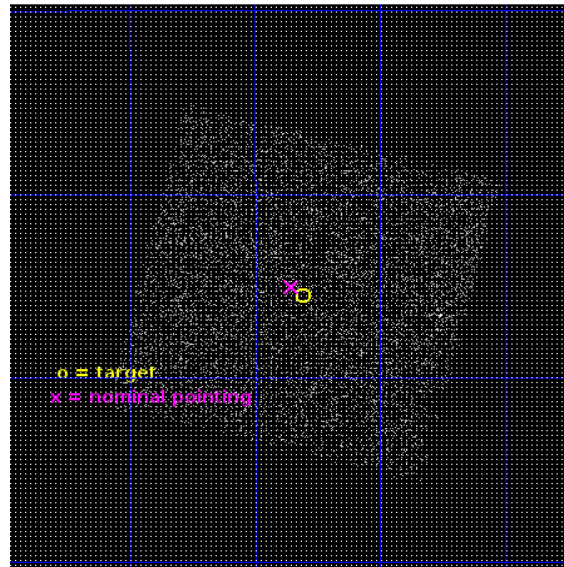
L2 Processing Date : Jul 8 2019

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1 Front

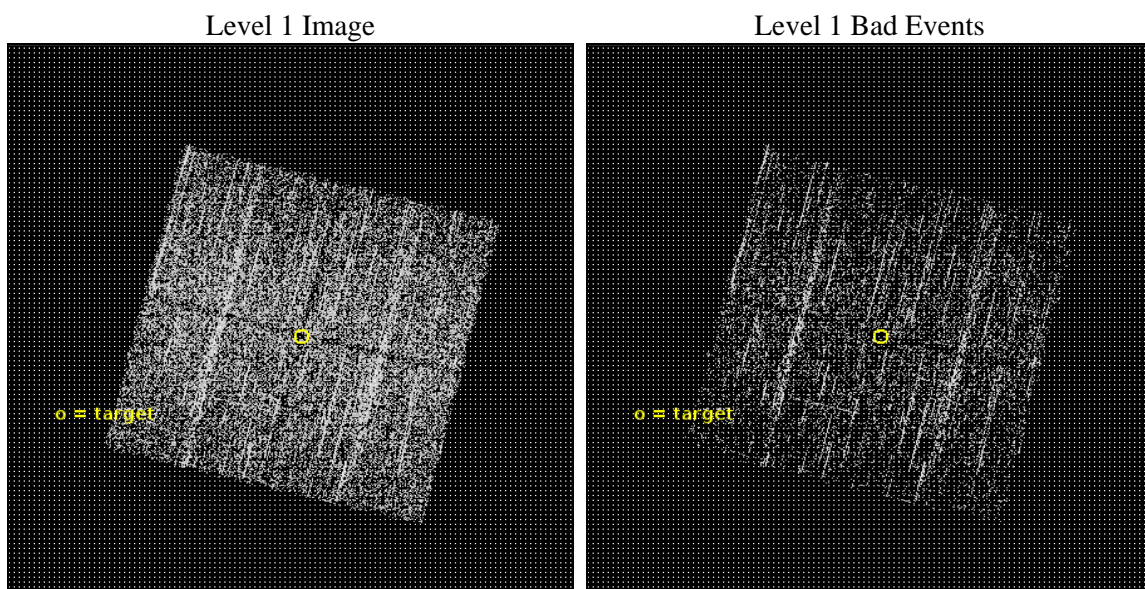
seq_num	300439	Sequence number
obs_id	21607	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.32636	Observer's specified target RA [deg]
dec_targ	-29.259051	Observer's specified target Dec [deg]
ra_nom	265.33868791435	Nominal RA [deg]
dec_nom	-29.250617638337	Nominal Dec [deg]
roll_nom	284.21471819326	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.3802264929	Sum of GTIs [s]
livetime	1883.4458339047	Livetime [s]
ontime0	1908.2571065426	Sum of GTIs [s]
ontime1	1908.2981464863	Sum of GTIs [s]
ontime2	1908.3391865492	Sum of GTIs [s]
ontime3	1908.3802264929	Sum of GTIs [s]
l2events	5884	Number of level 2 events



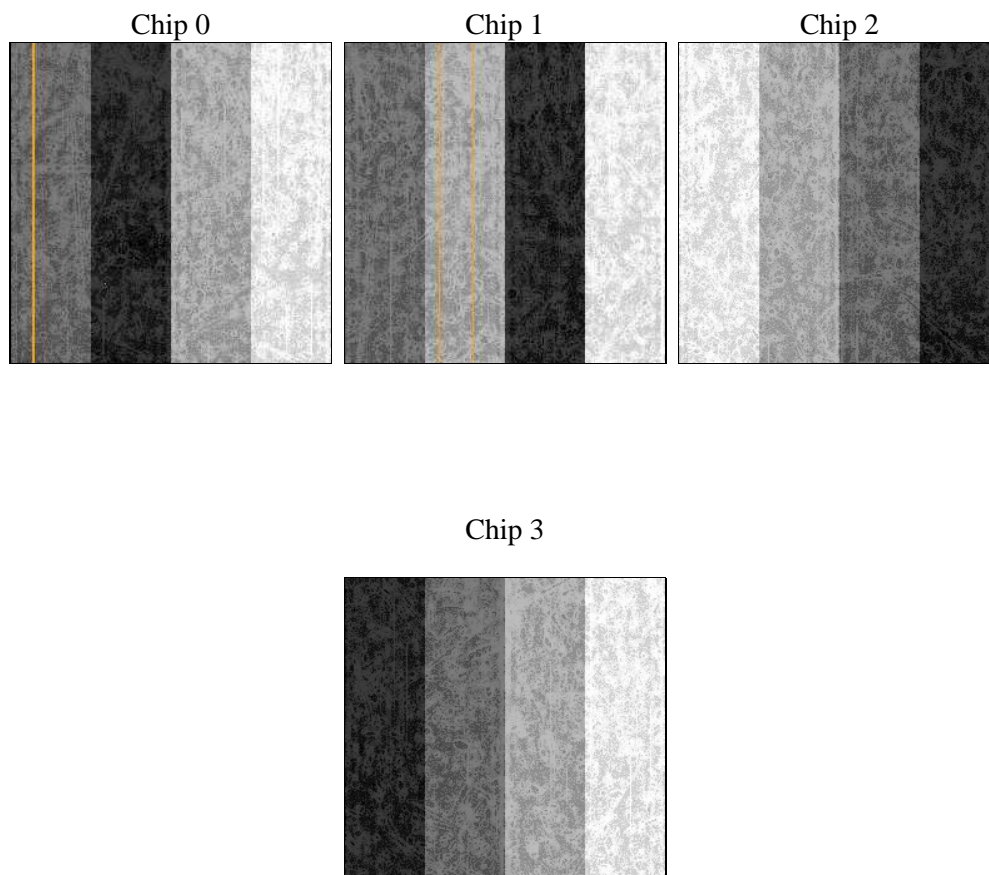
2 OBI

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	1908.3802264929	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.2571065426	Sum of GTIs [s]
date	2019-07-08T11:14:12	Date and time of file creation	ontime1	1908.2981464863	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.3391865492	Sum of GTIs [s]
			ontime3	1908.3802264929	Sum of GTIs [s]
			l1events	55591	Number of level 1 events

2.1.4 Events

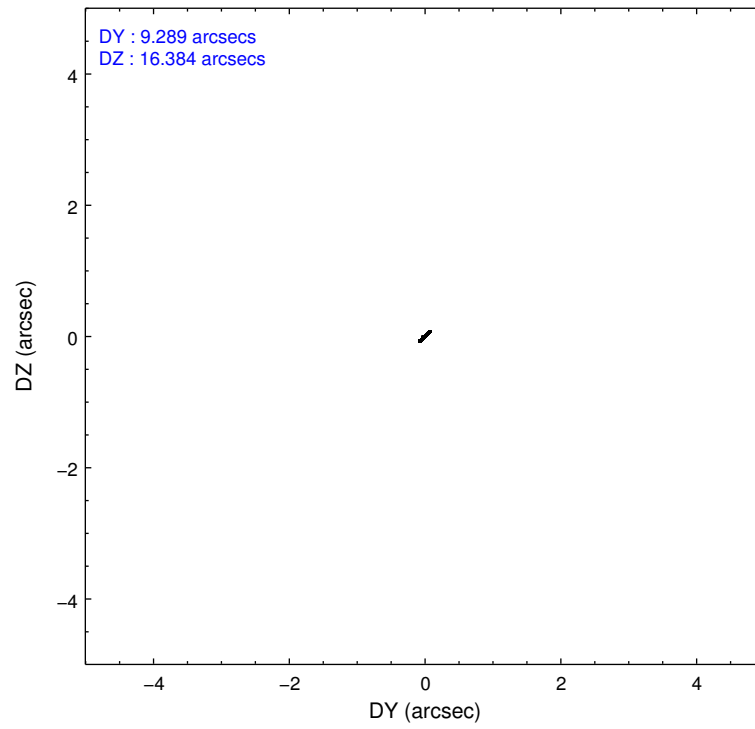
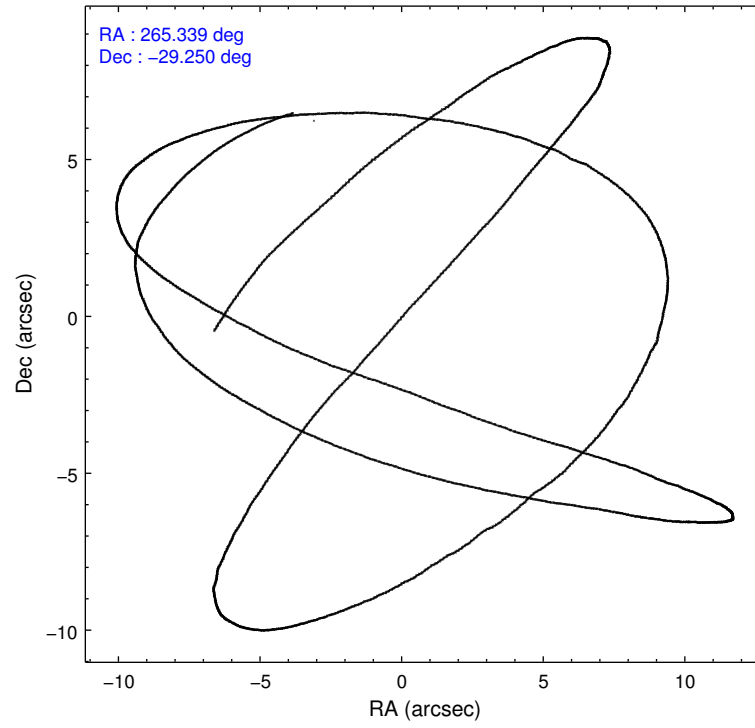
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13774	13910	13702	14205
rejected events	12006	11930	11969	12594
rejected %	87%	85%	87%	88%

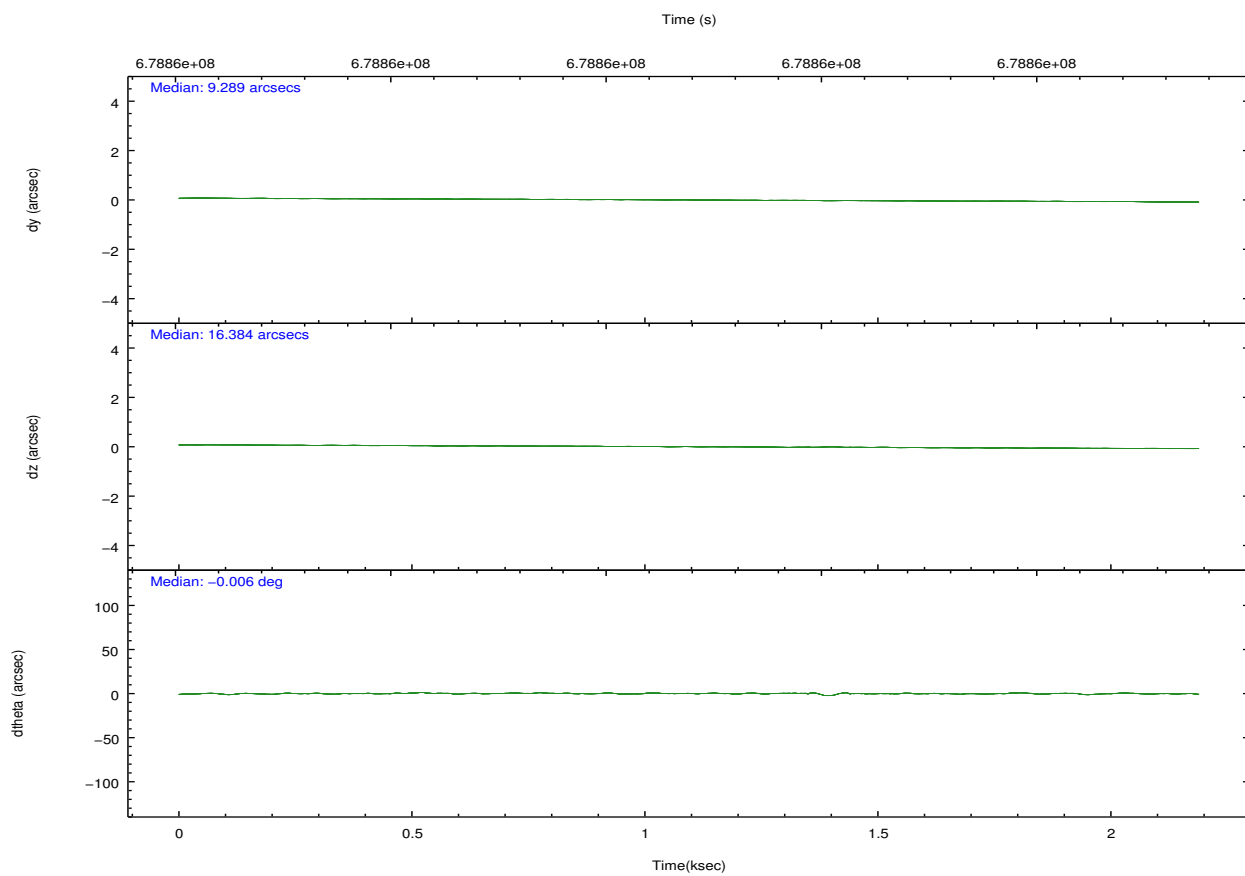
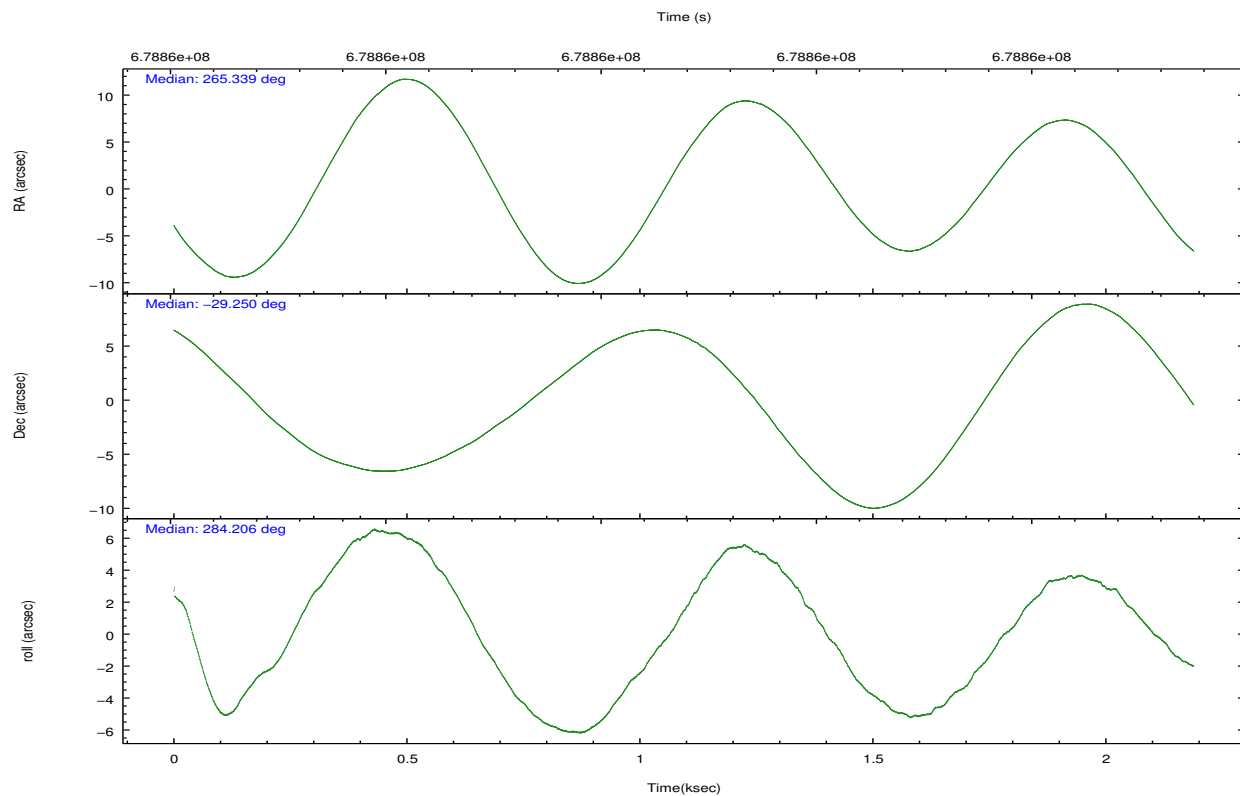
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	631	684	623	590
	4%	4%	4%	4%
grade 1 events	6	7	5	10
	0%	0%	0%	0%
grade 2 events	458	499	441	367
	3%	3%	3%	2%
grade 3 events	180	177	171	161
	1%	1%	1%	1%
grade 4 events	164	202	178	154
	1%	1%	1%	1%
grade 5 events	680	657	657	726
	4%	4%	4%	5%
grade 6 events	337	423	322	344
	2%	3%	2%	2%
grade 7 events	11318	11261	11305	11853
	82%	80%	82%	83%

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	265.316582	265.3386879143492	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.231040	-29.25061763833662	Alternating exposures requested	N	N
[deg] Pointing Roll	283.995225	284.2147181932558	[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)	678859275.184000	678858899.5925			
Observation start date	2019-07-07T04:00:06	2019-07-07T03:54:59			
[s] Observation end time (MET)	678861275.184000	678861409.81765			
Observation end date	2019-07-07T04:33:26	2019-07-07T04:36:49			
Read mode	TIMED	TIMED			

2.3 Aspect



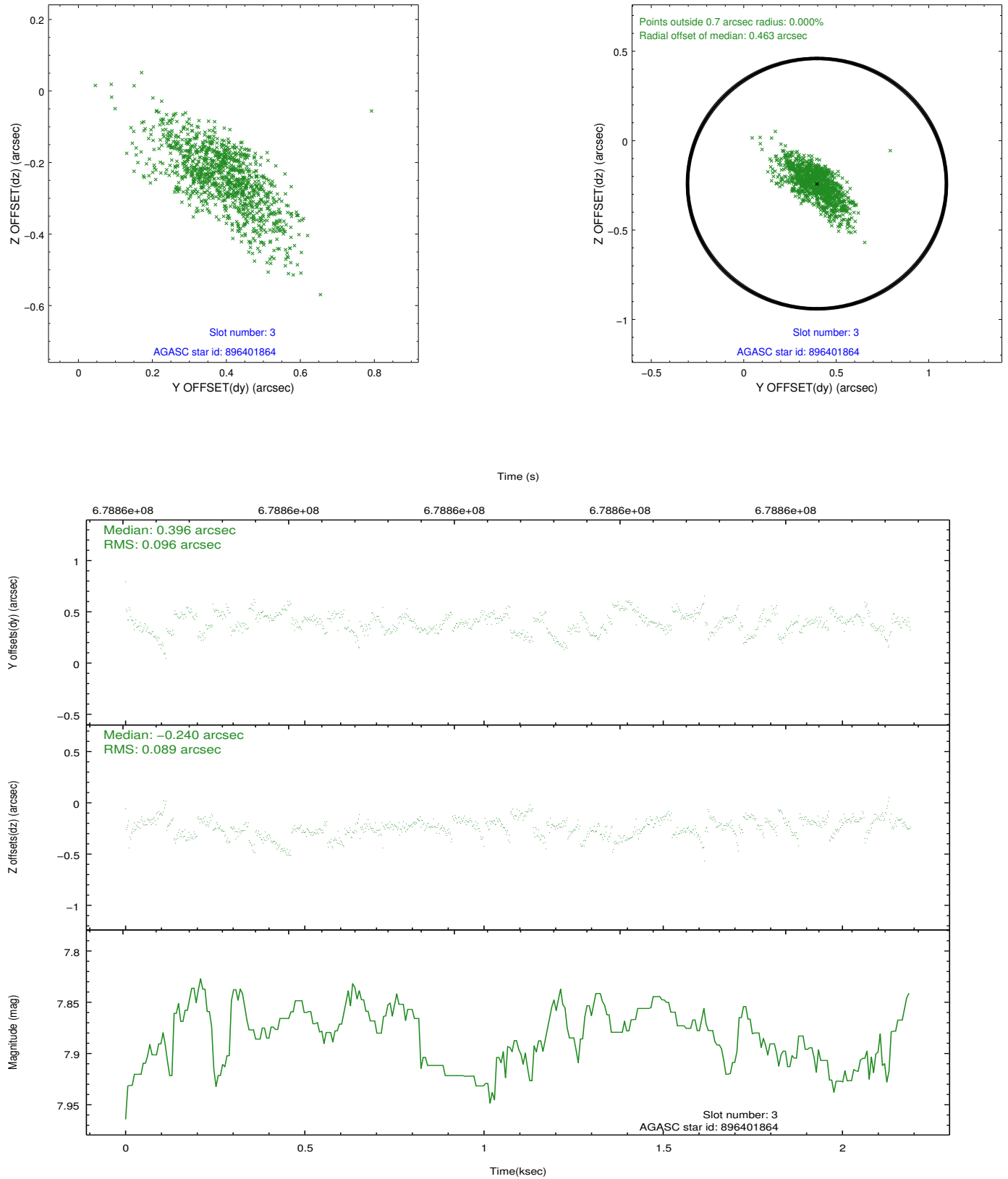


Slot Statistics

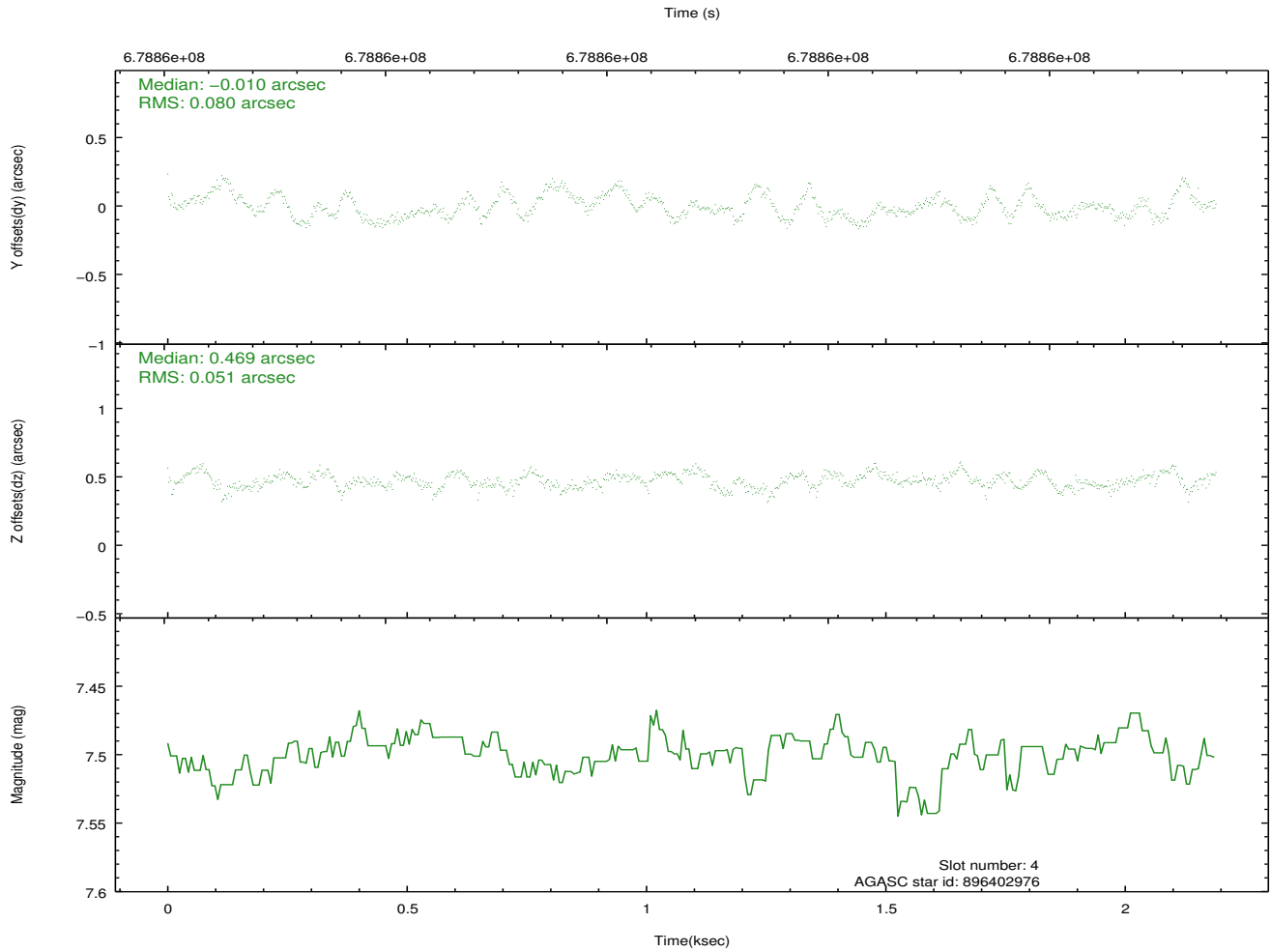
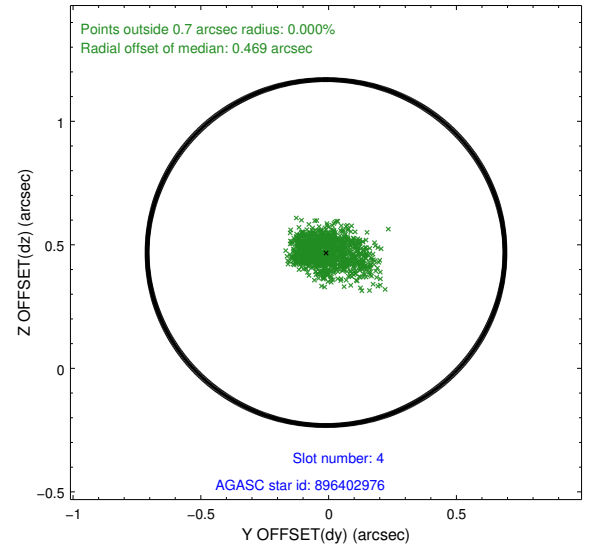
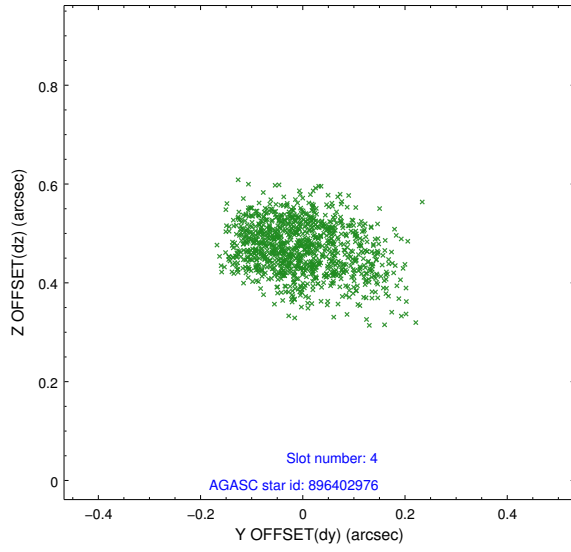
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.12	534	1.000	0.115	-0.161	0.006	0.011	0.000000	0.000000	930.50	-840
1	FID		ACIS-I-5	7.09	534	1.000	-0.457	0.023	0.006	0.011	0.000000	0.000000	-1816.65	1055
2	FID		ACIS-I-6	7.08	534	1.000	0.251	0.209	0.006	0.012	0.000000	0.000000	392.77	1704
3	GUIDE	used	896401864	7.88	1068	1.000	0.396	-0.240	0.132	0.242	264.861768	-29.959752	2206.72	-2011
4	GUIDE	used	896402976	7.50	1069	1.000	-0.010	0.469	0.100	0.164	265.099474	-28.923203	-1237.05	-397
5	GUIDE	used	896404376	6.67	1069	1.000	-0.047	0.168	0.085	0.145	264.835179	-29.530972	686.25	-1725
6	GUIDE	used	896405480	8.22	1068	1.000	-0.024	0.005	0.083	0.139	265.220460	-29.599691	1216.78	-614
7	GUIDE	used	896540808	7.46	1068	1.000	-0.320	-0.390	0.060	0.105	265.985401	-29.308604	785.94	1967

2.4 Star Slots

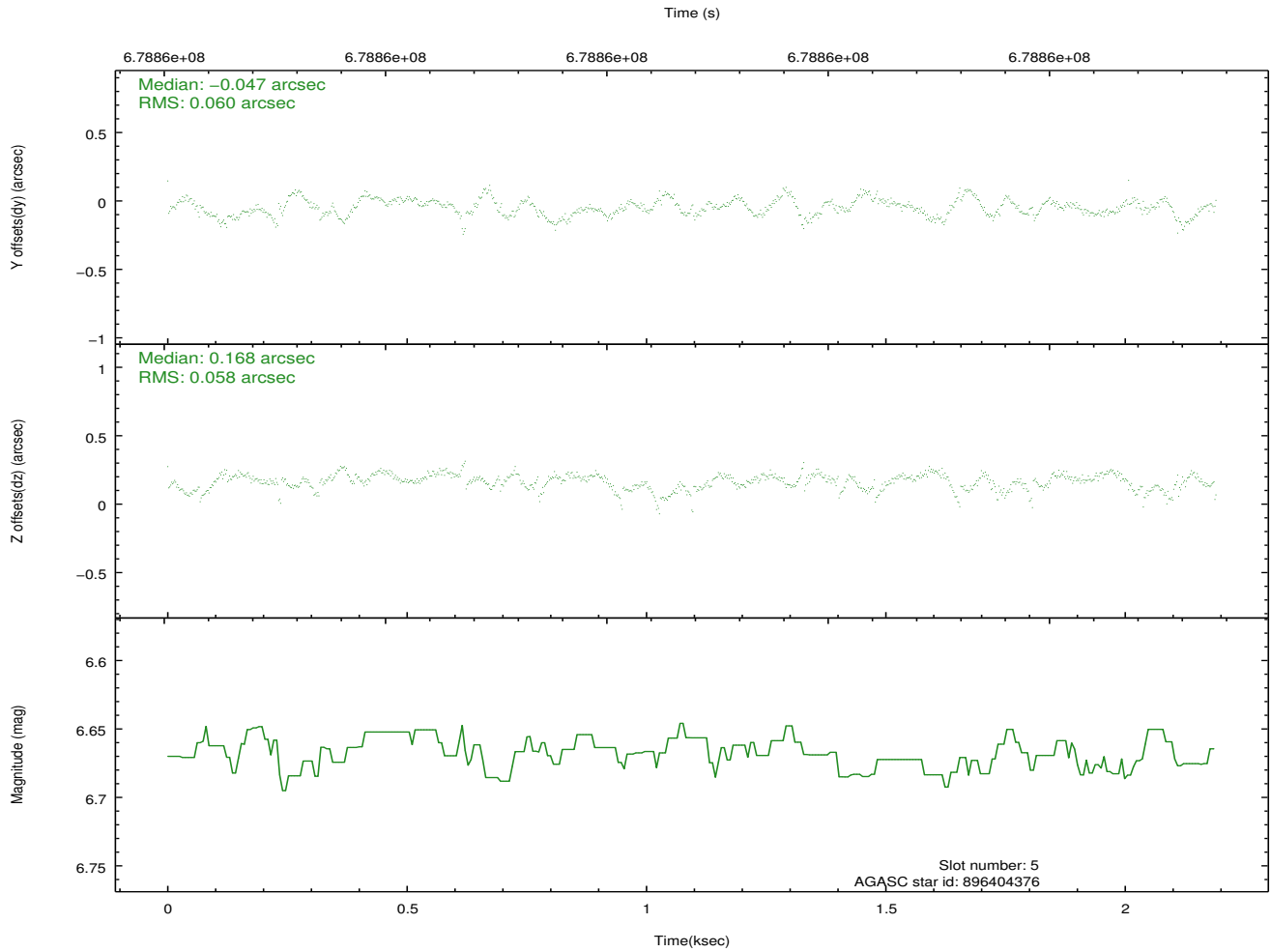
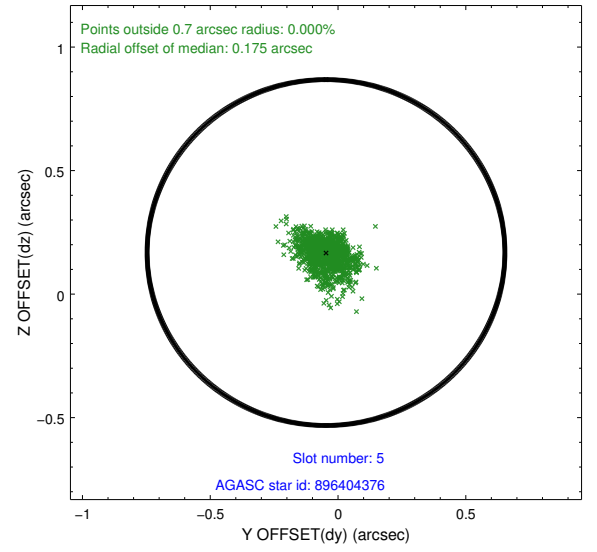
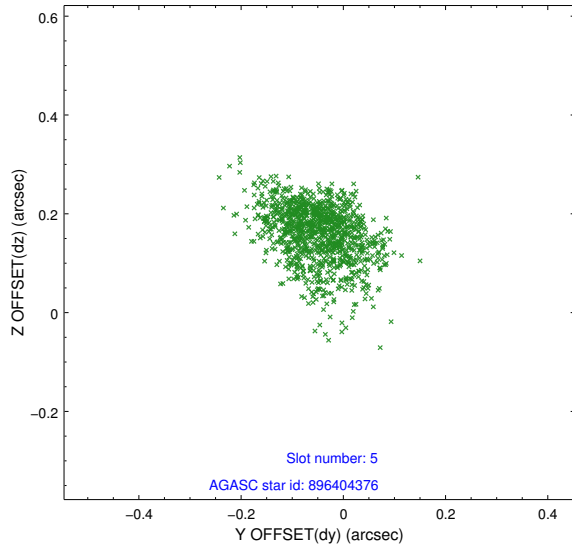
2.4.1 Slot 3



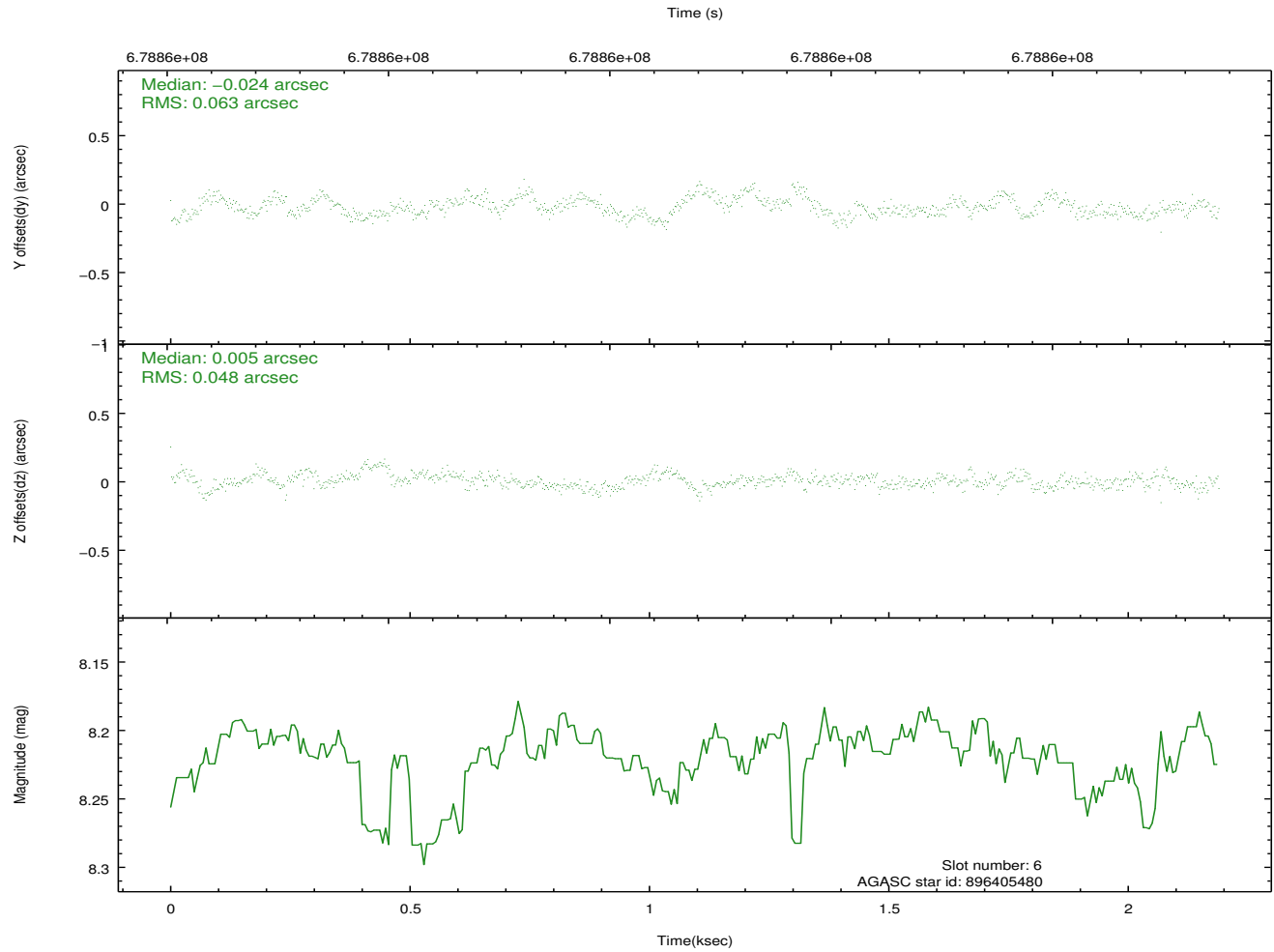
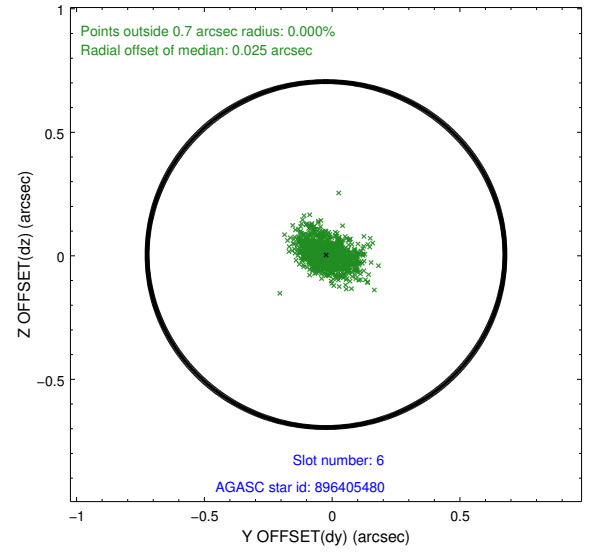
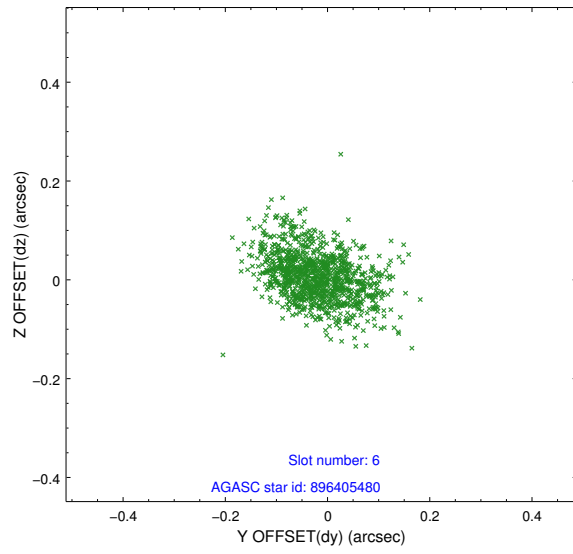
2.4.2 Slot 4



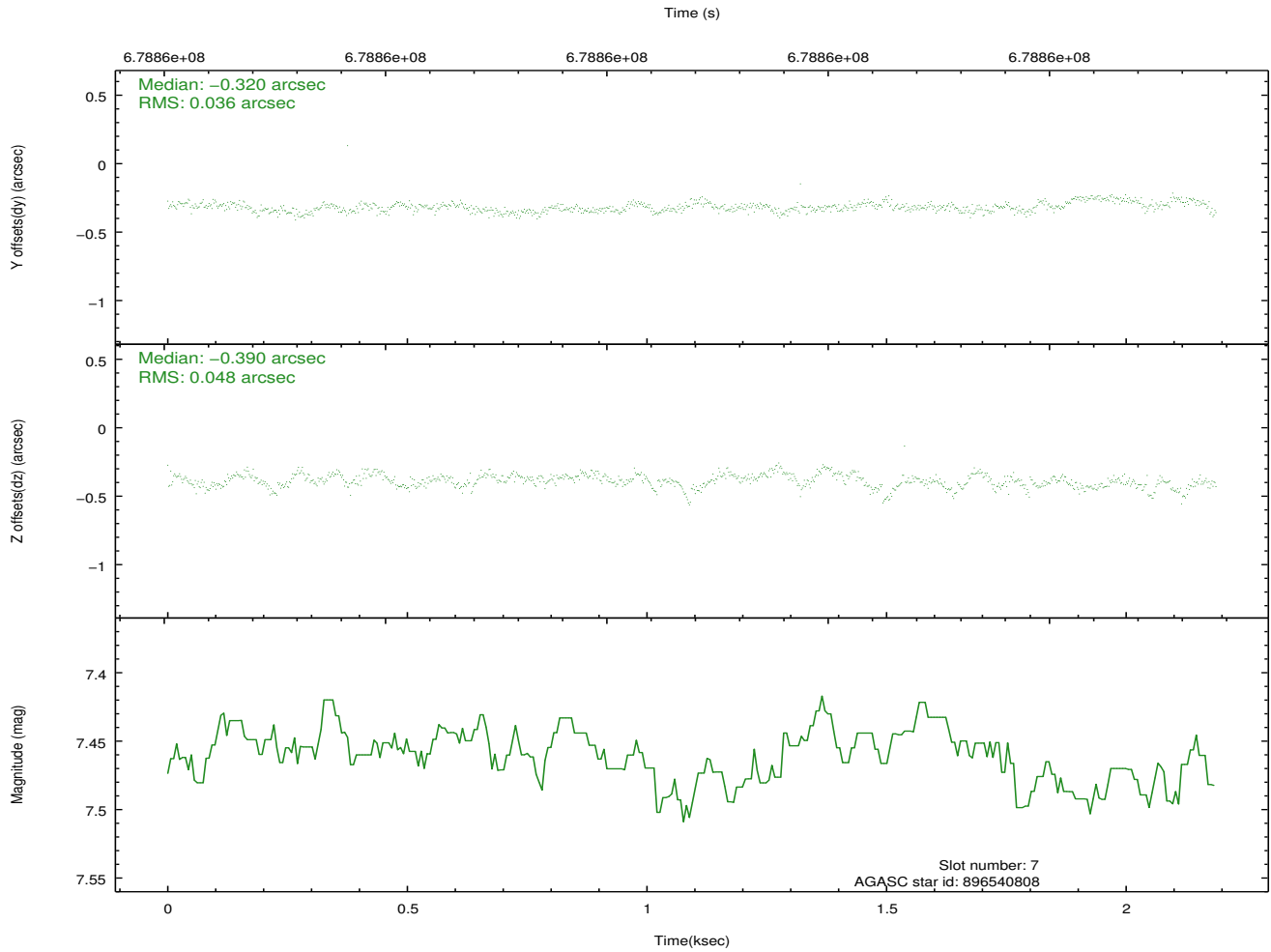
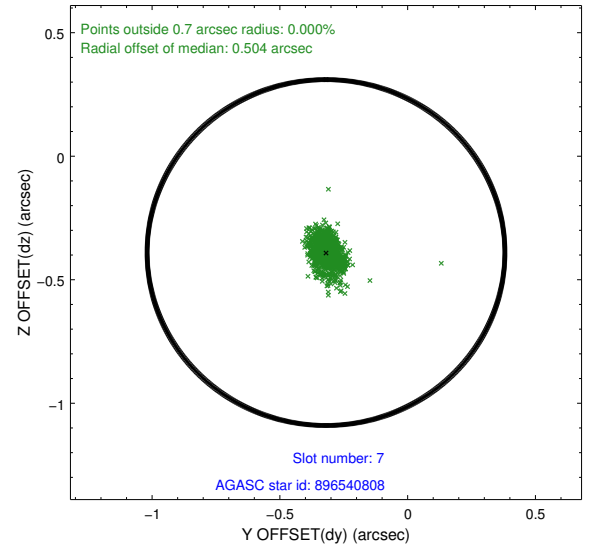
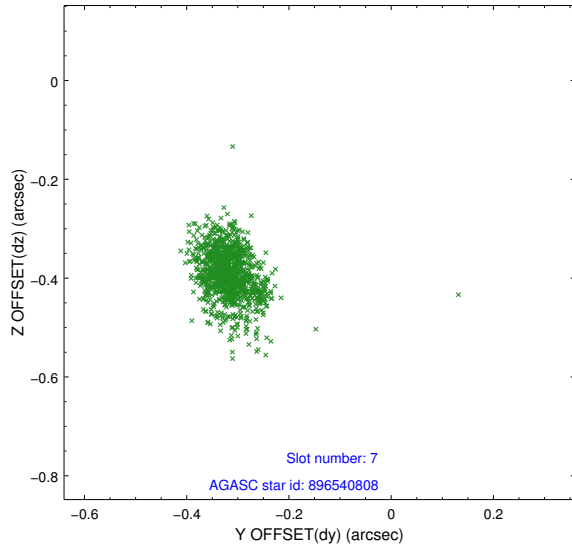
2.4.3 Slot 5



2.4.4 Slot 6

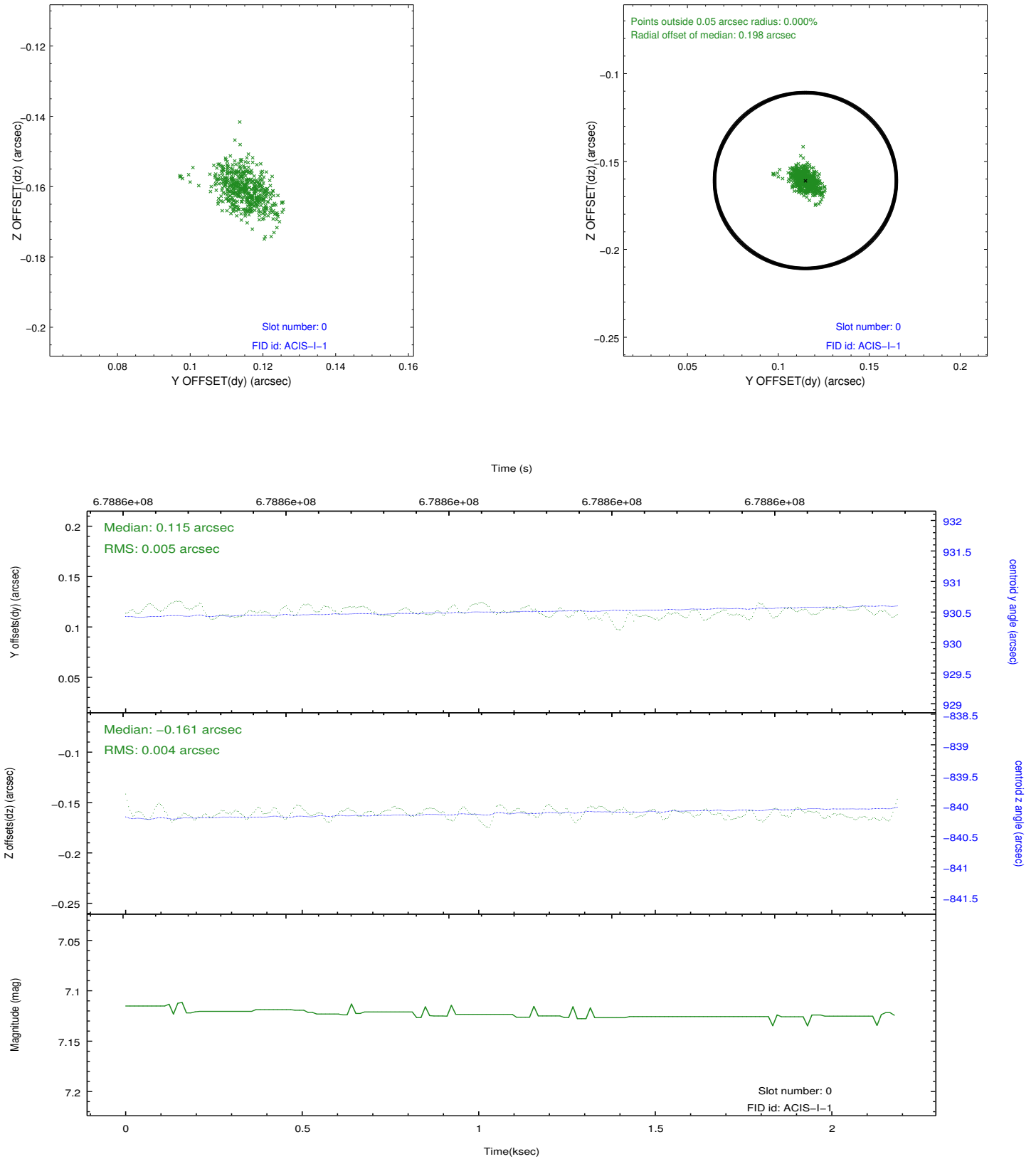


2.4.5 Slot 7

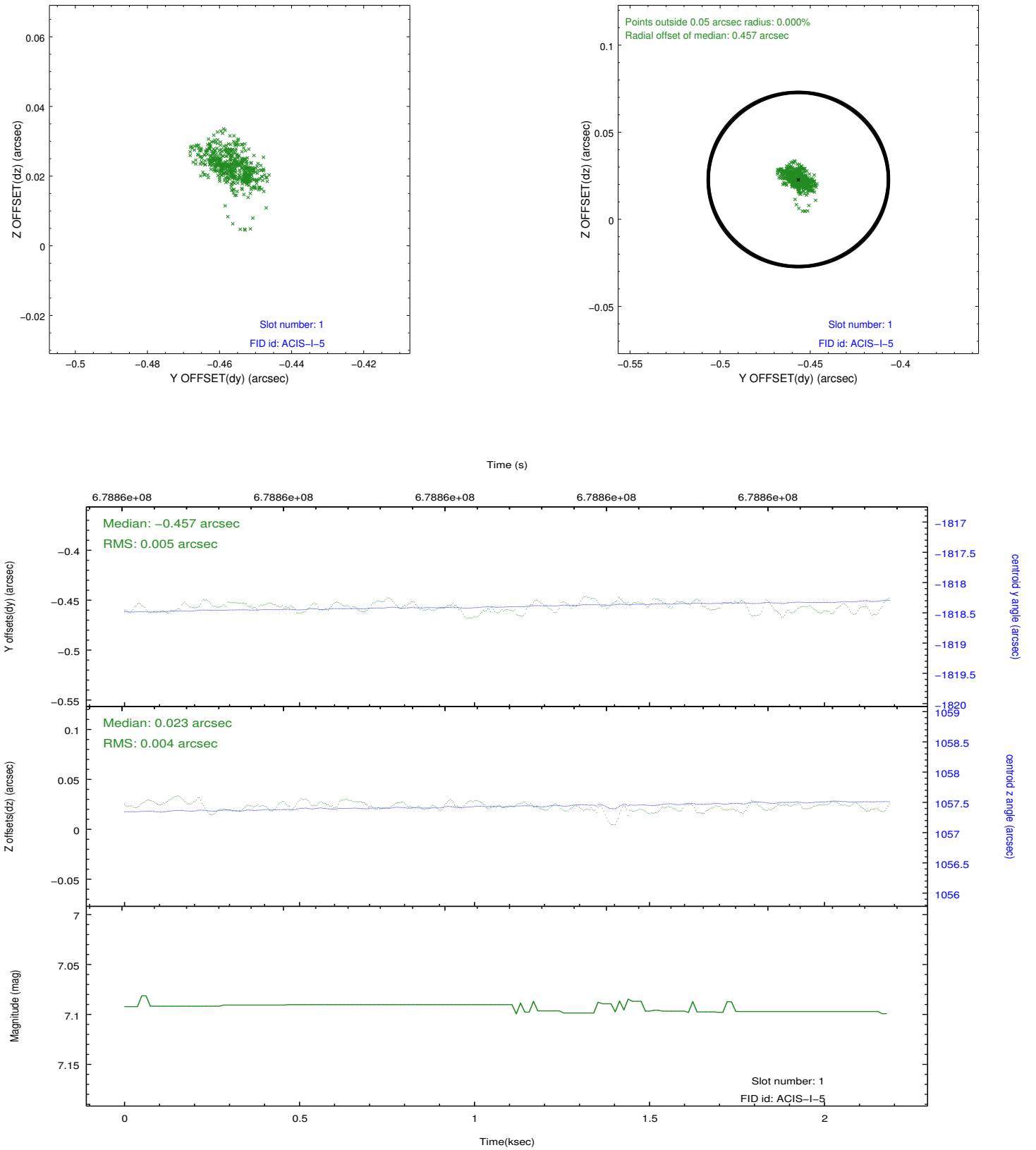


2.5 FID Slots

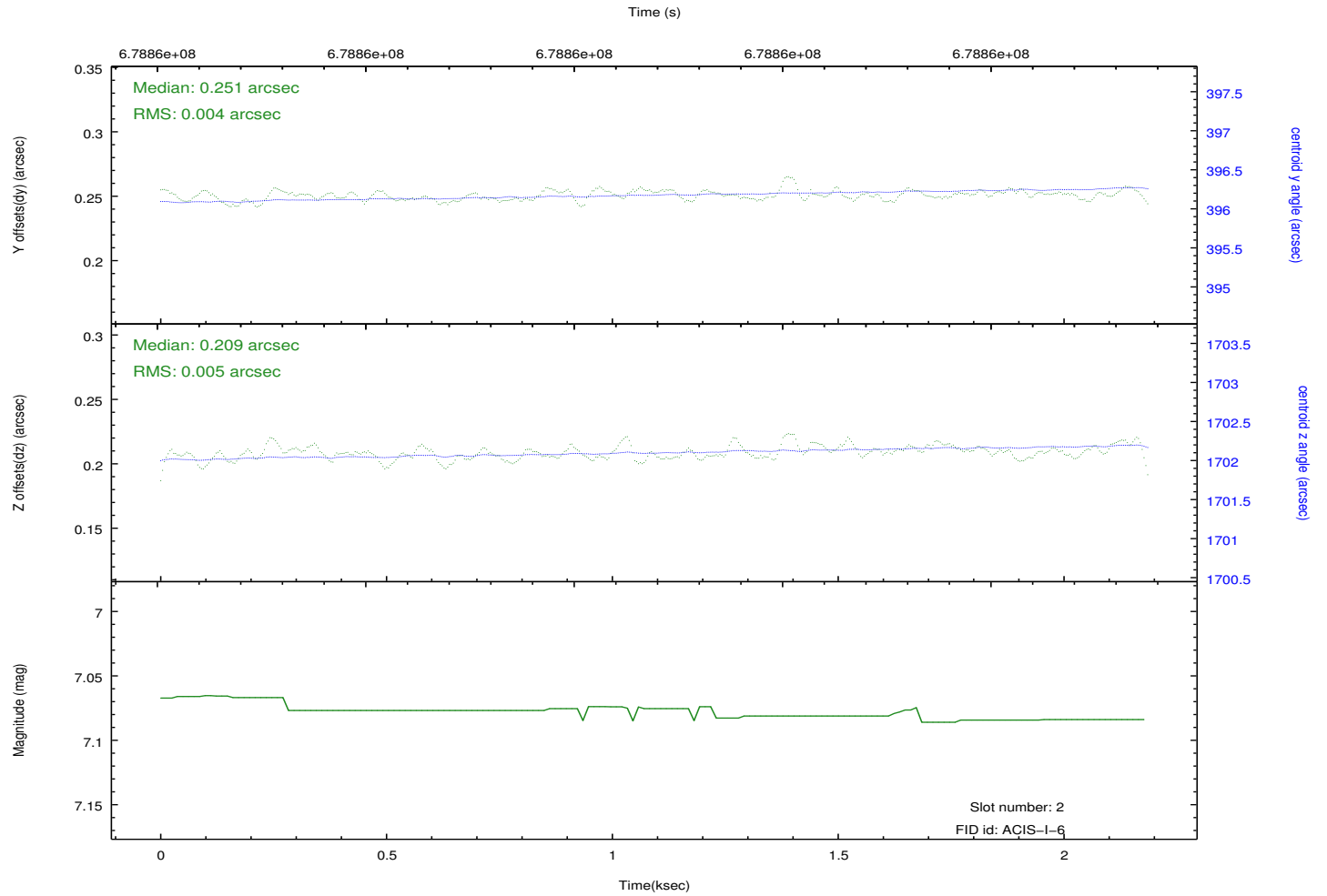
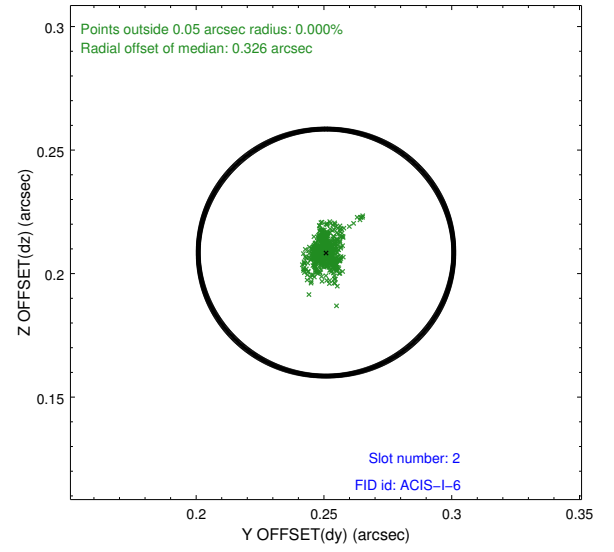
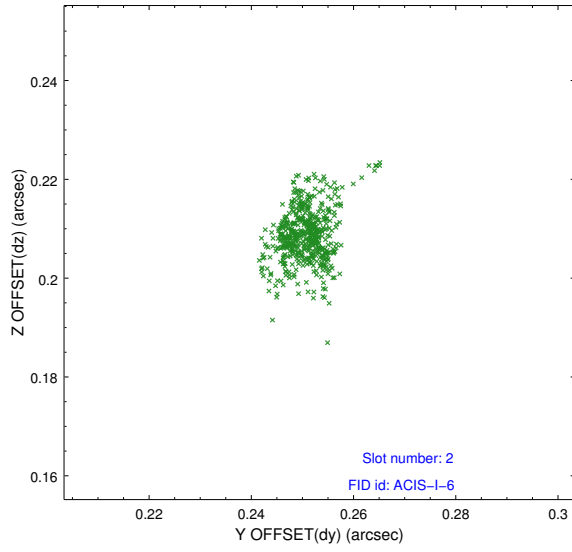
2.5.1 Slot 0



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	1.9083802264929

A.2 Comments