

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21604 - L2 Version 1
Chandra X-Ray Center

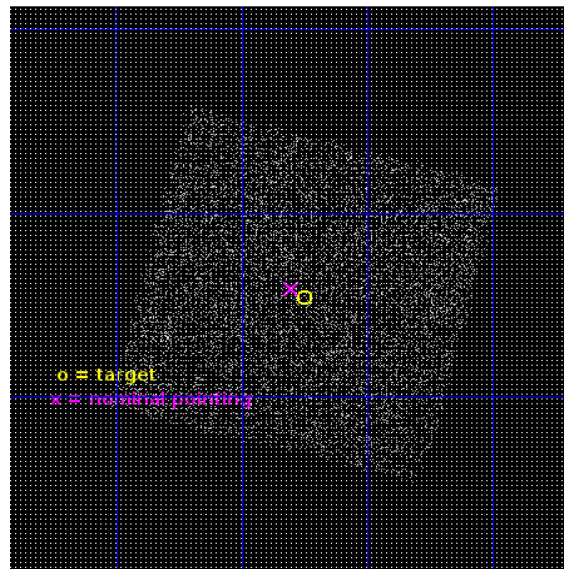
L2 Processing Date : Jul 8 2019

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1 Front

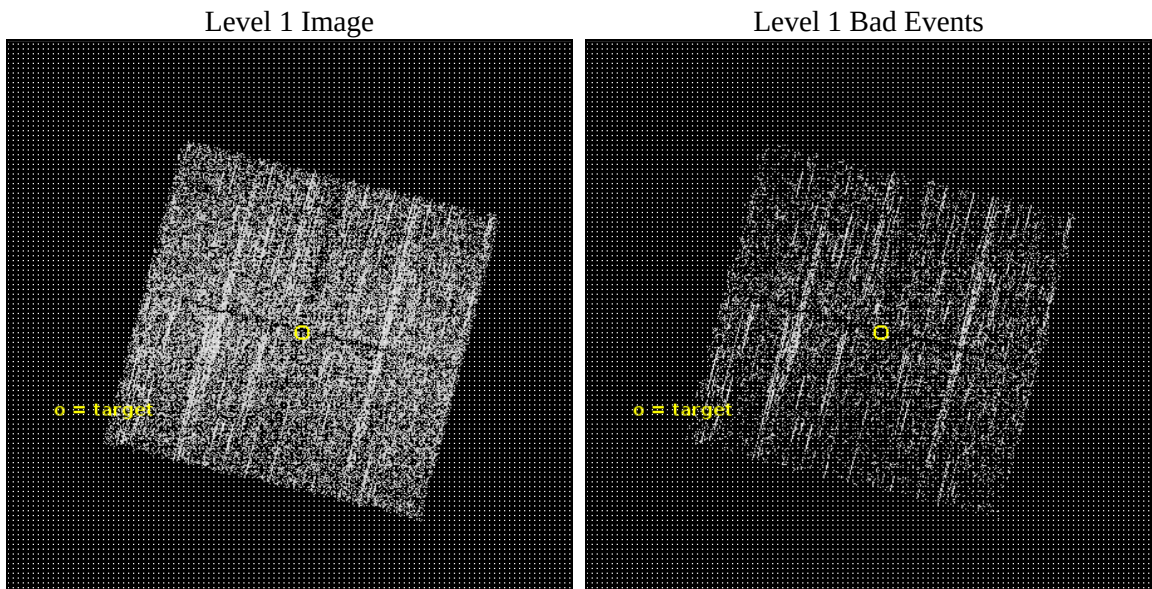
seq_num	300436	Sequence number
obs_id	21604	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.43777	Observer's specified target RA [deg]
dec_targ	-28.910189	Observer's specified target Dec [deg]
ra_nom	265.45036099666	Nominal RA [deg]
dec_nom	-28.902204333746	Nominal Dec [deg]
roll_nom	284.21487146036	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2080.1000161171	Sum of GTIs [s]
livetime	2052.9219780592	Livetime [s]
ontime0	2080.1000161171	Sum of GTIs [s]
ontime1	2080.1000161171	Sum of GTIs [s]
ontime2	2080.1000161171	Sum of GTIs [s]
ontime3	2080.1000161171	Sum of GTIs [s]
l2events	6932	Number of level 2 events



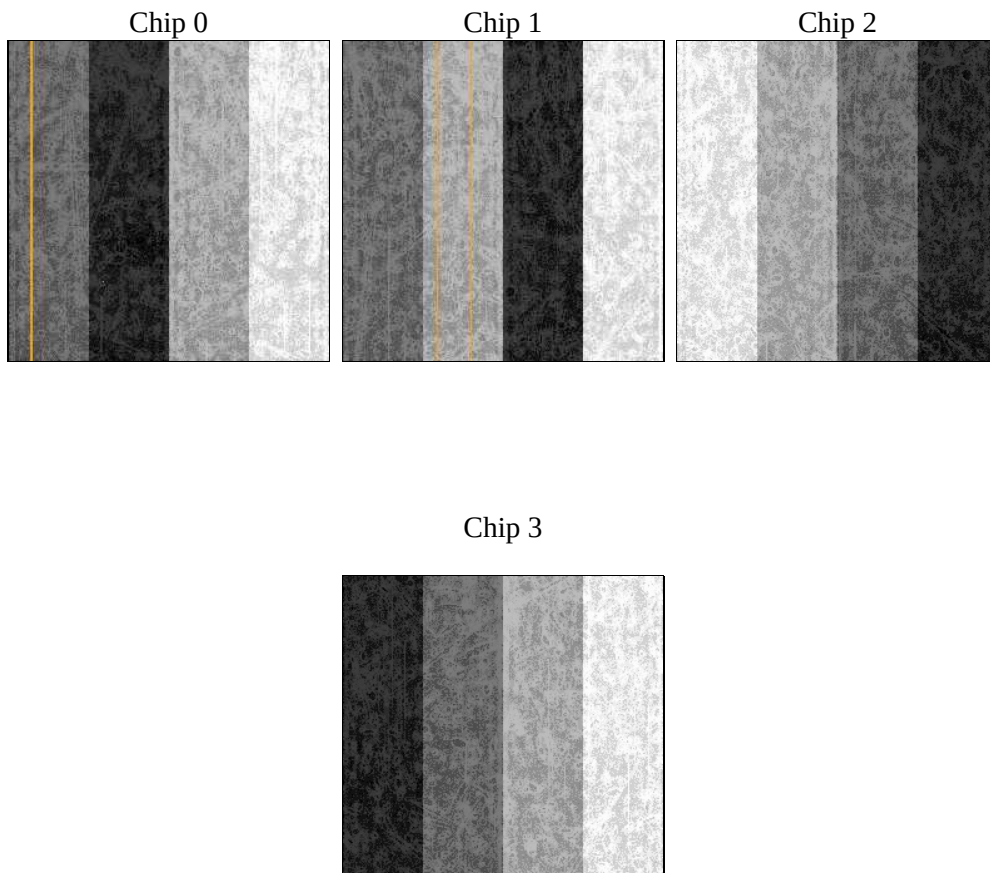
2 OBI

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	2080.1000161171	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	2080.1000161171	Sum of GTIs [s]
date	2019-07-08T11:12:30	Date and time of file creation	ontime1	2080.1000161171	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	2080.1000161171	Sum of GTIs [s]
			ontime3	2080.1000161171	Sum of GTIs [s]
			l1events	60299	Number of level 1 events

2.1.4 Events

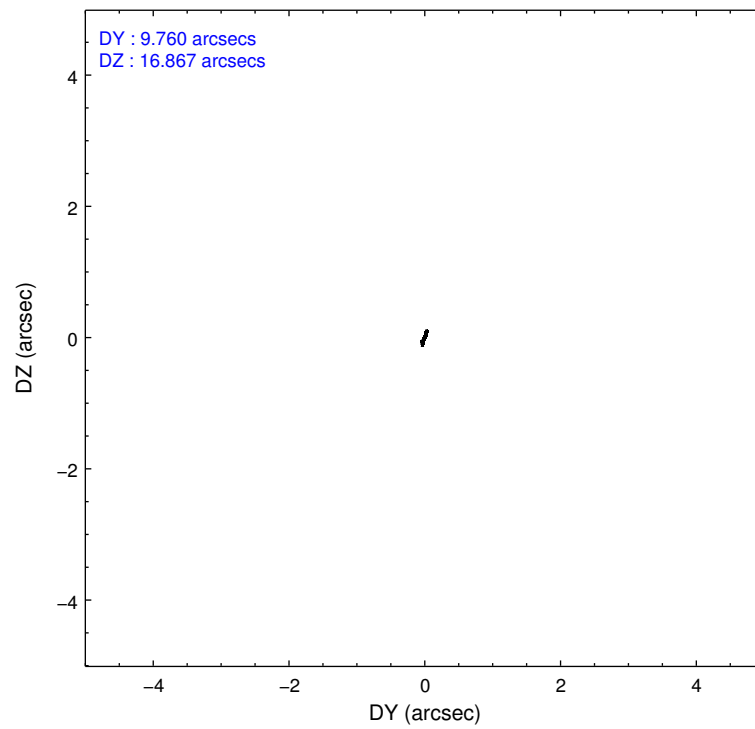
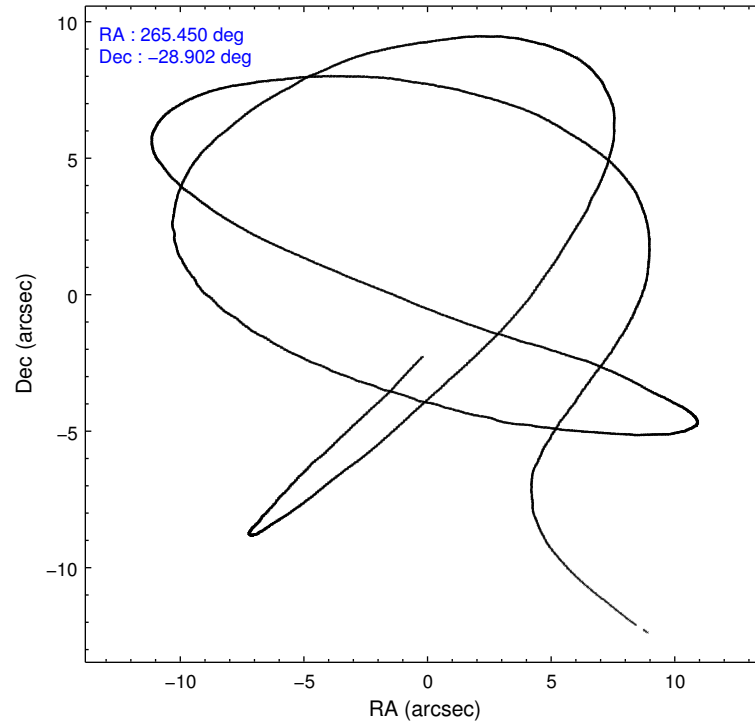
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13388	15843	16026	15042
rejected events	11396	13540	14008	13083
rejected %	85%	85%	87%	86%

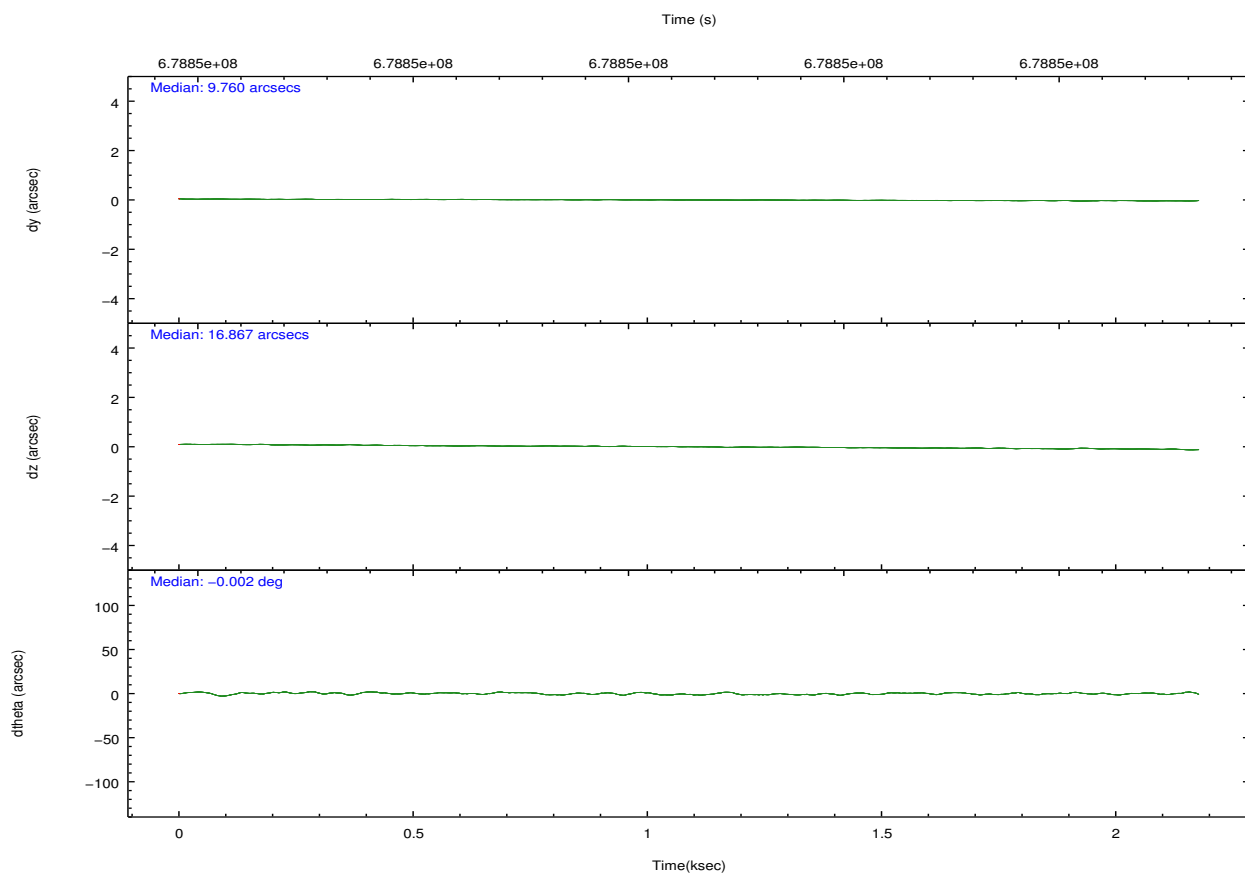
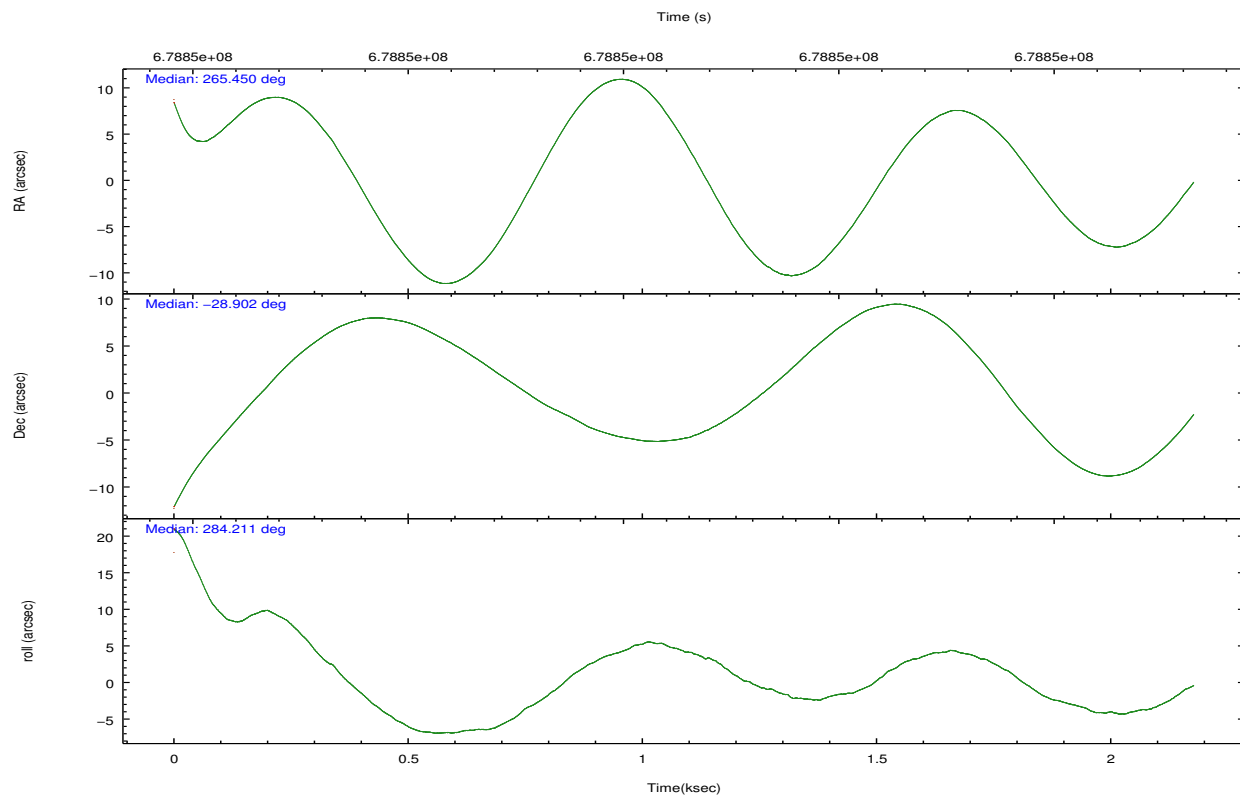
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	765	867	804	757
	5%	5%	5%	5%
grade 1 events	7	12	14	9
	0%	0%	0%	0%
grade 2 events	476	547	453	425
	3%	3%	2%	2%
grade 3 events	183	221	190	199
	1%	1%	1%	1%
grade 4 events	184	190	208	180
	1%	1%	1%	1%
grade 5 events	772	744	716	828
	5%	4%	4%	5%
grade 6 events	385	478	370	399
	2%	3%	2%	2%
grade 7 events	10616	12784	13271	12245
	79%	80%	82%	81%

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	265.428171	265.4503609966585	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.882339	-28.90220433374631	Alternating exposures requested	N	N
[deg] Pointing Roll	283.995369	284.2148714603591	[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)	678851745.184000	678850456.6670001			
Observation start date	2019-07-07T01:54:36	2019-07-07T01:34:16			
[s] Observation end time (MET)	678853745.184000	678853879.6547			
Observation end date	2019-07-07T02:27:56	2019-07-07T02:31:19			
Read mode	TIMED	TIMED			

2.3 Aspect



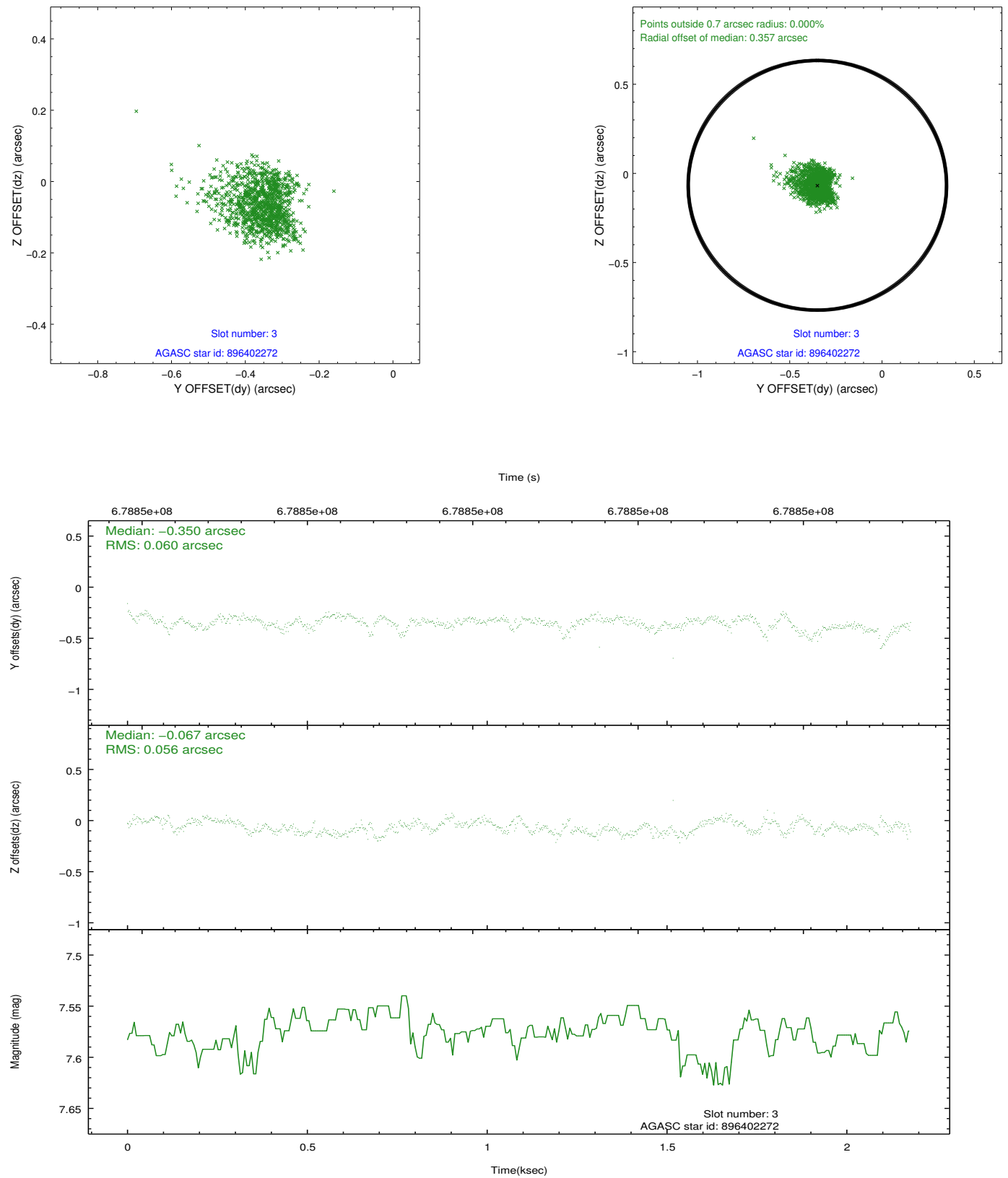


Slot Statistics

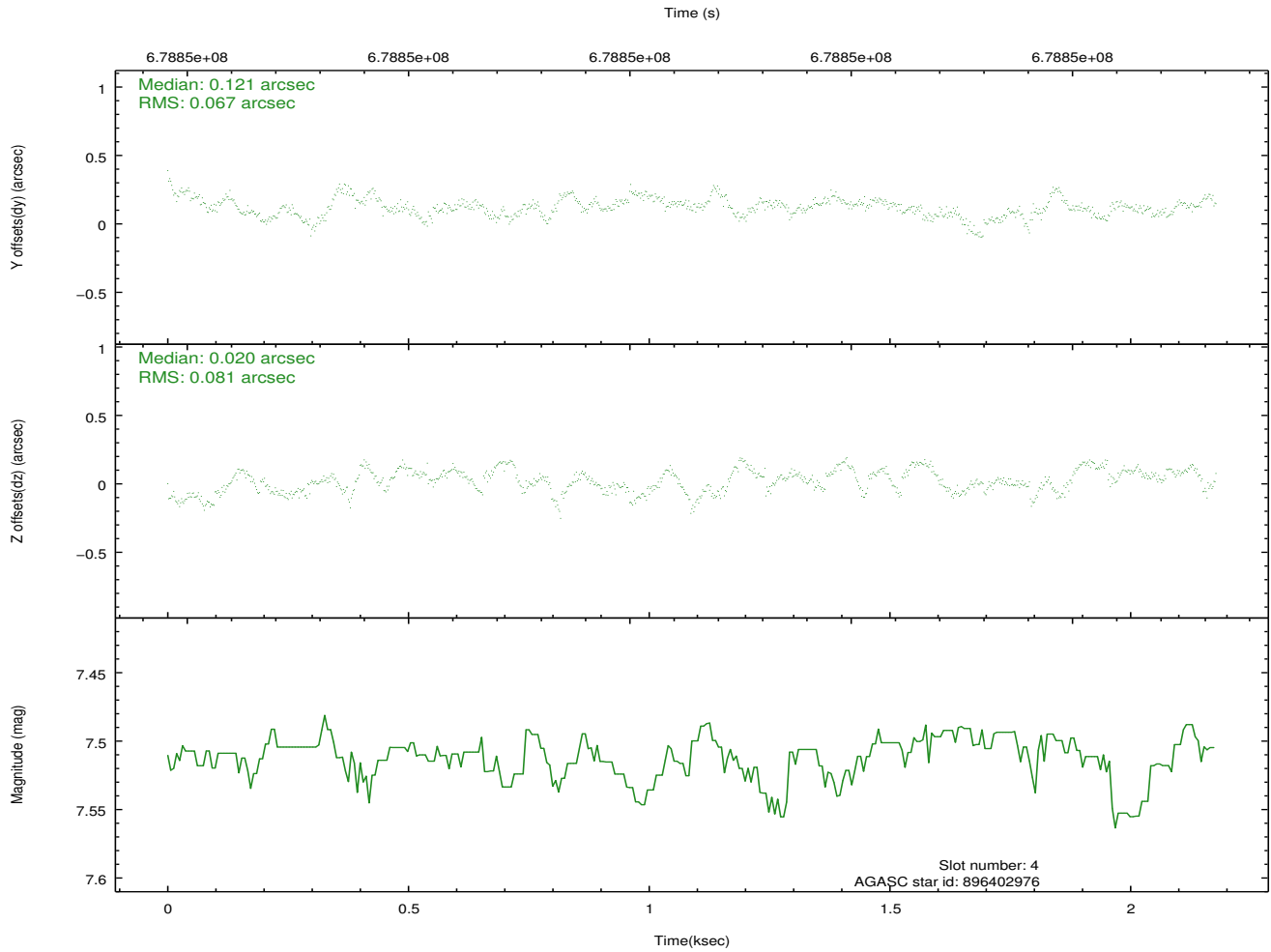
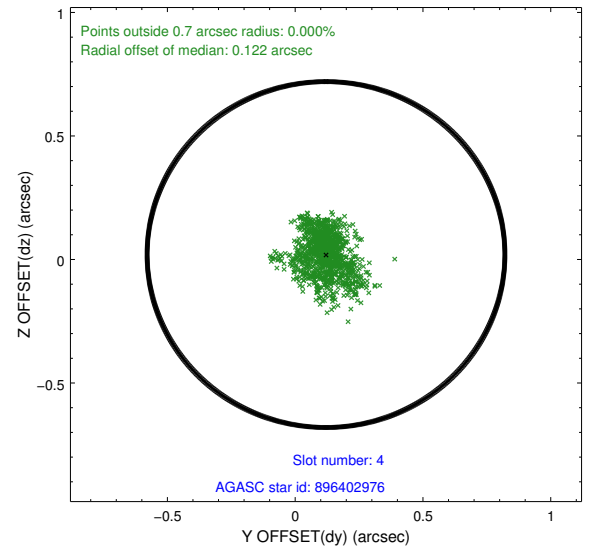
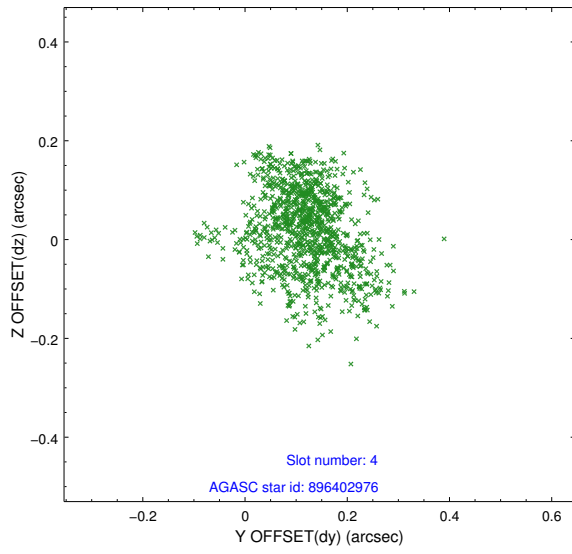
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.09	532	1.000	0.018	-0.045	0.009	0.015	0.000000	0.000000	929.86	-840
1	FID		ACIS-I-2	6.97	532	1.000	-0.481	-0.212	0.008	0.012	0.000000	0.000000	-763.06	-848
2	FID		ACIS-I-4	7.01	532	1.000	0.366	0.324	0.005	0.011	0.000000	0.000000	2148.73	1058
3	GUIDE	used	896402272	7.58	1063	1.000	-0.350	-0.067	0.085	0.139	265.637294	-28.313189	-1827.89	1138
4	GUIDE	used	896402976	7.51	1063	1.000	0.121	0.020	0.114	0.181	265.099474	-28.923203	-107.94	-1039
5	GUIDE	used	896403224	8.27	1063	1.000	-0.117	-0.386	0.097	0.179	265.612825	-29.438915	2084.71	75
6	GUIDE	used	896404376	6.69	1063	1.000	0.235	0.091	0.107	0.218	264.835179	-29.530972	1823.62	-2368
7	GUIDE	used	896405616	7.83	1061	1.000	0.120	0.350	0.100	0.151	264.752771	-28.412560	-2149.49	-1671

2.4 Star Slots

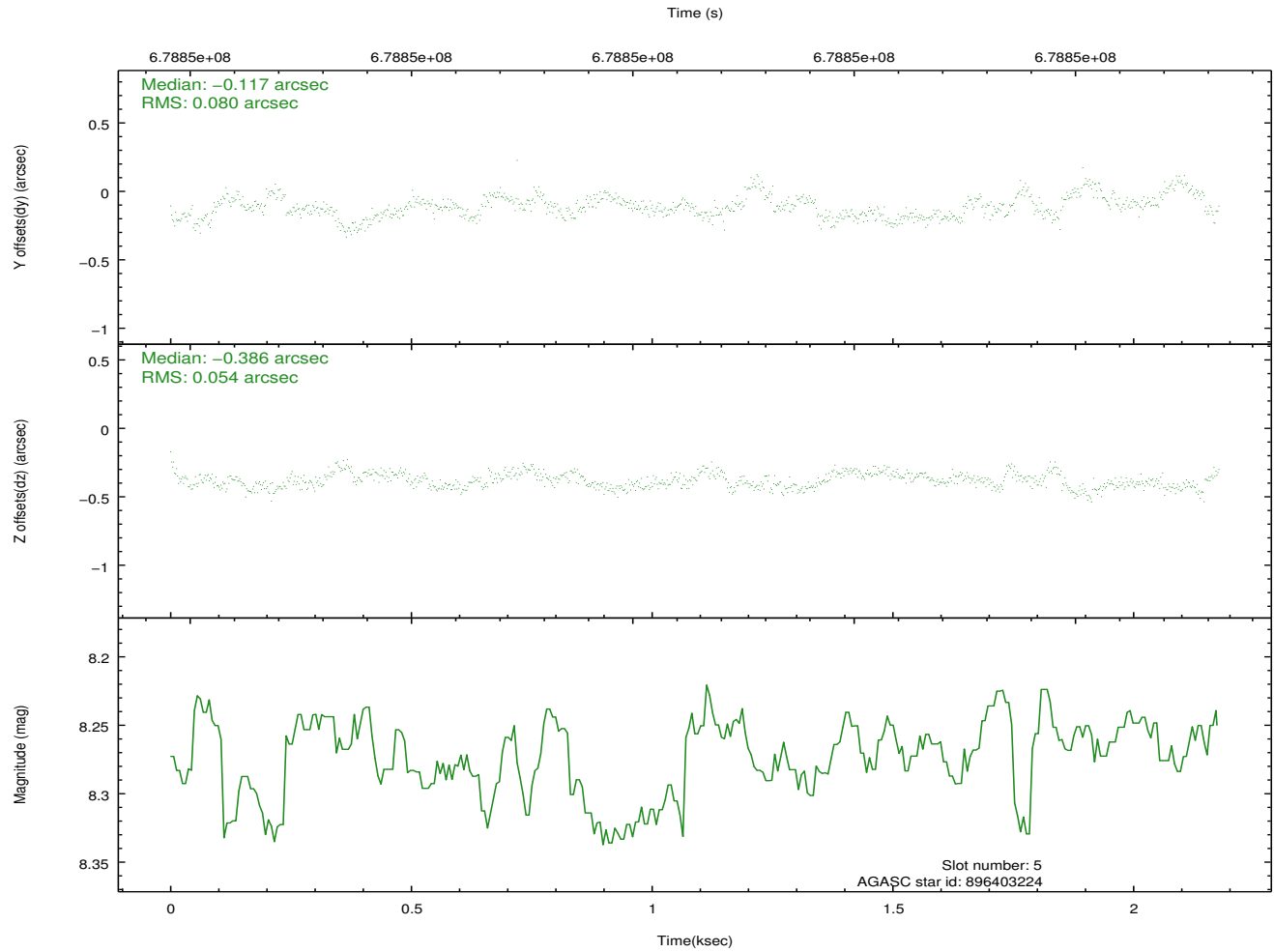
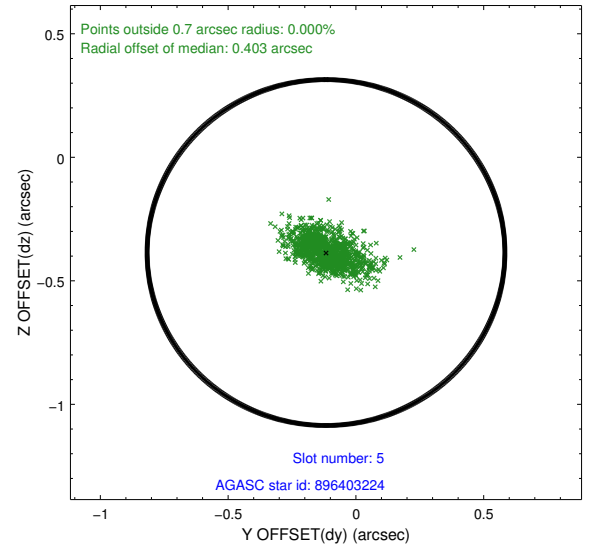
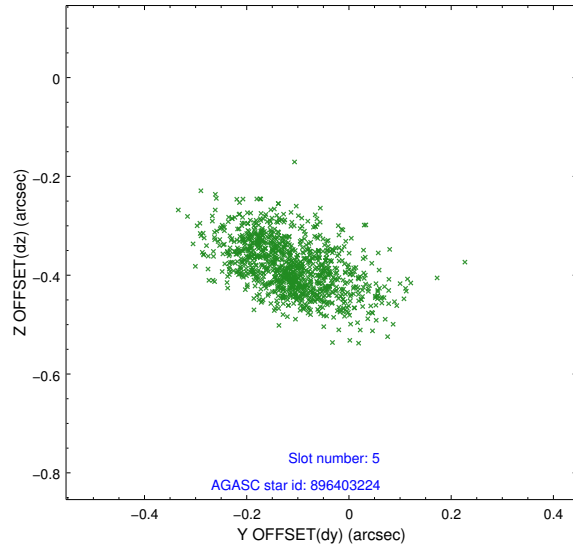
2.4.1 Slot 3



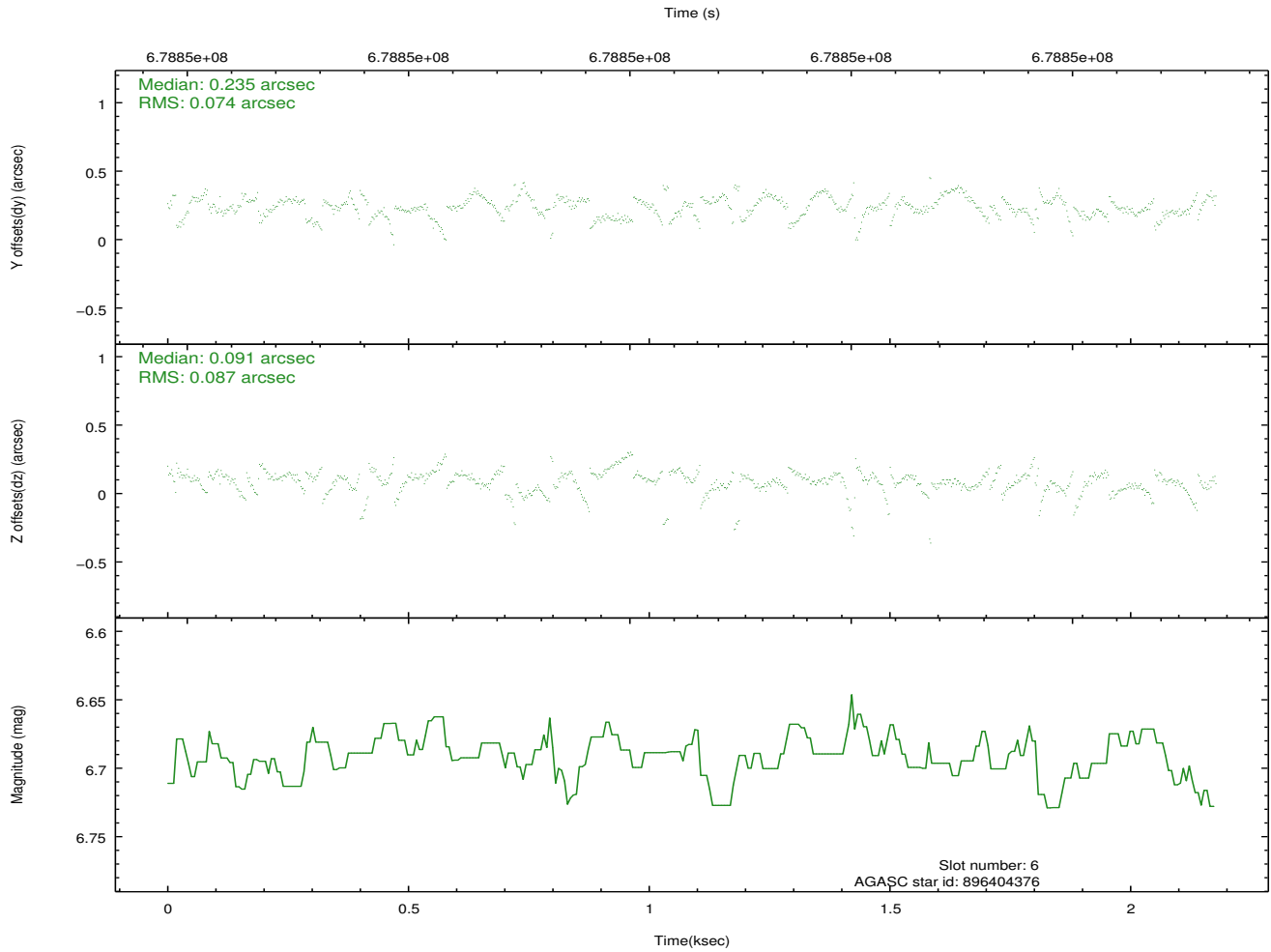
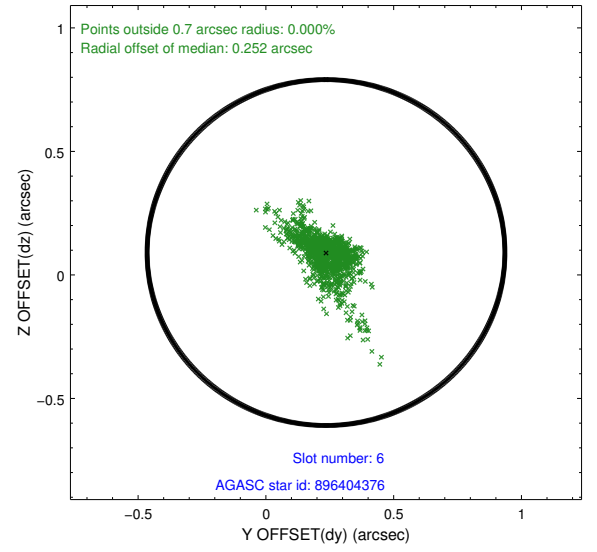
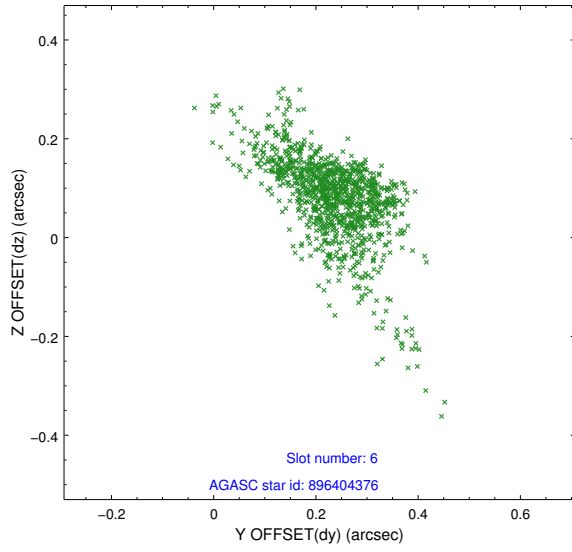
2.4.2 Slot 4



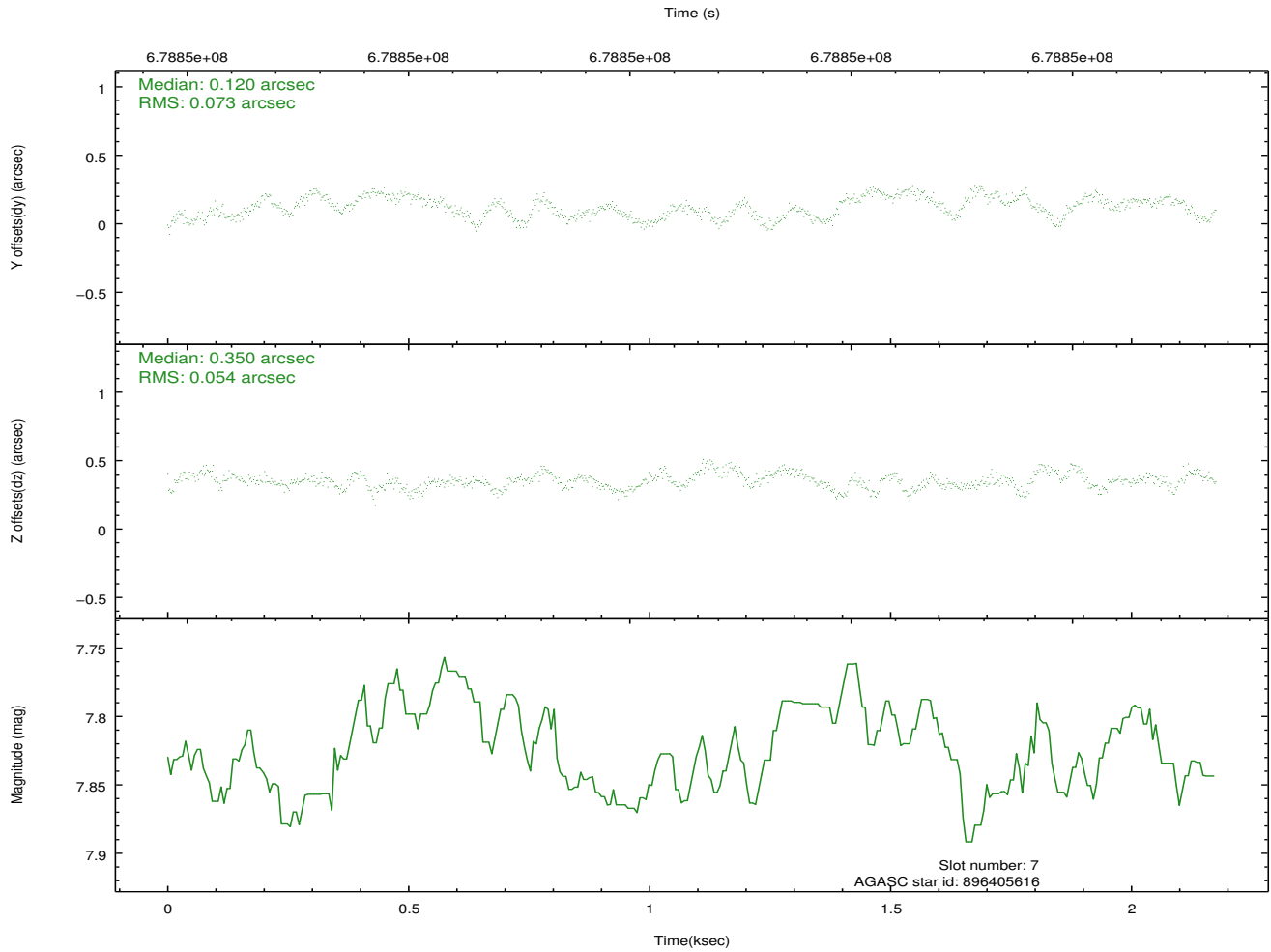
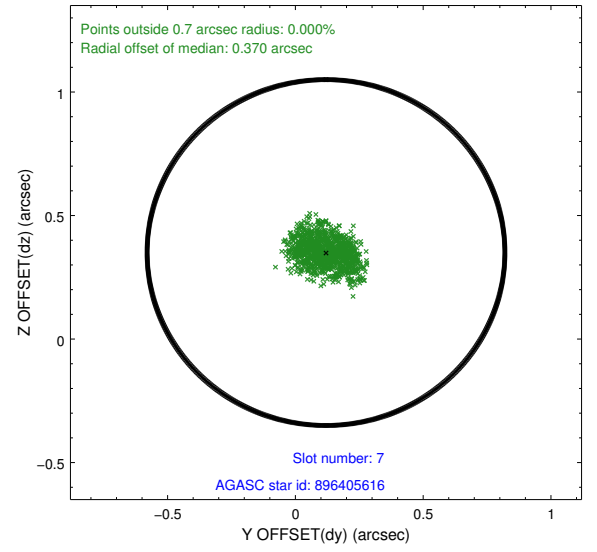
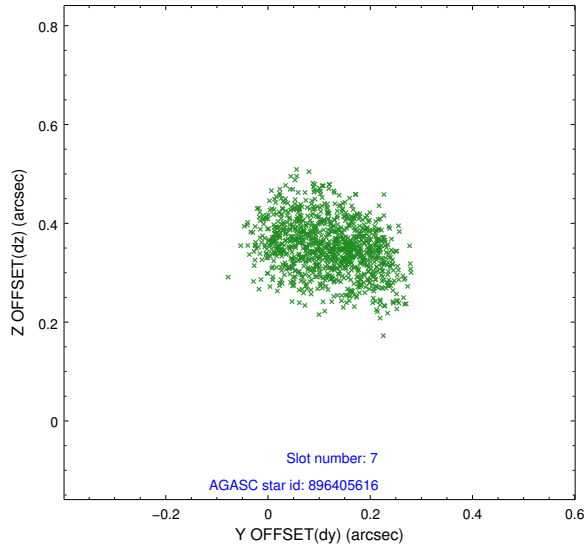
2.4.3 Slot 5



2.4.4 Slot 6

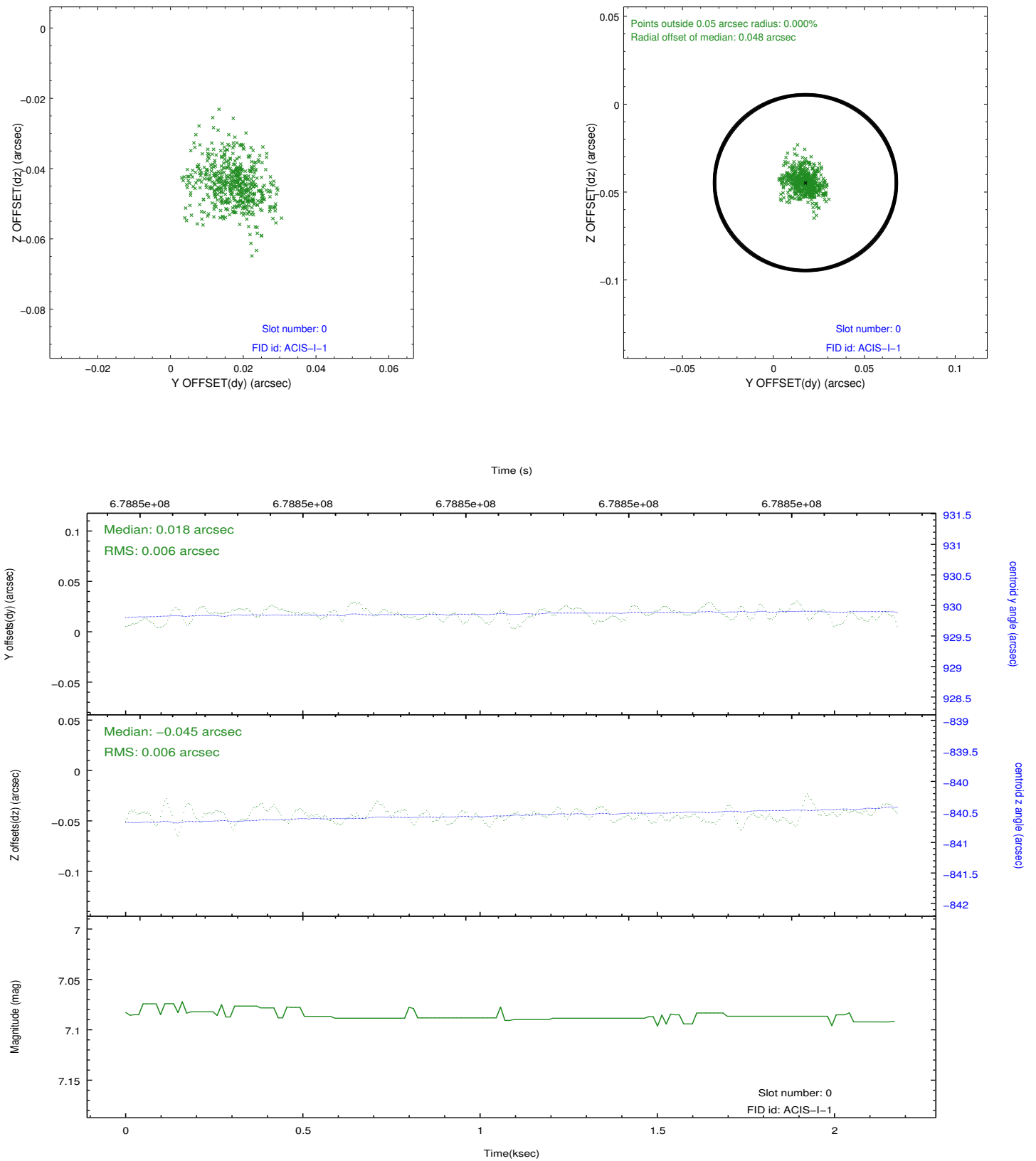


2.4.5 Slot 7

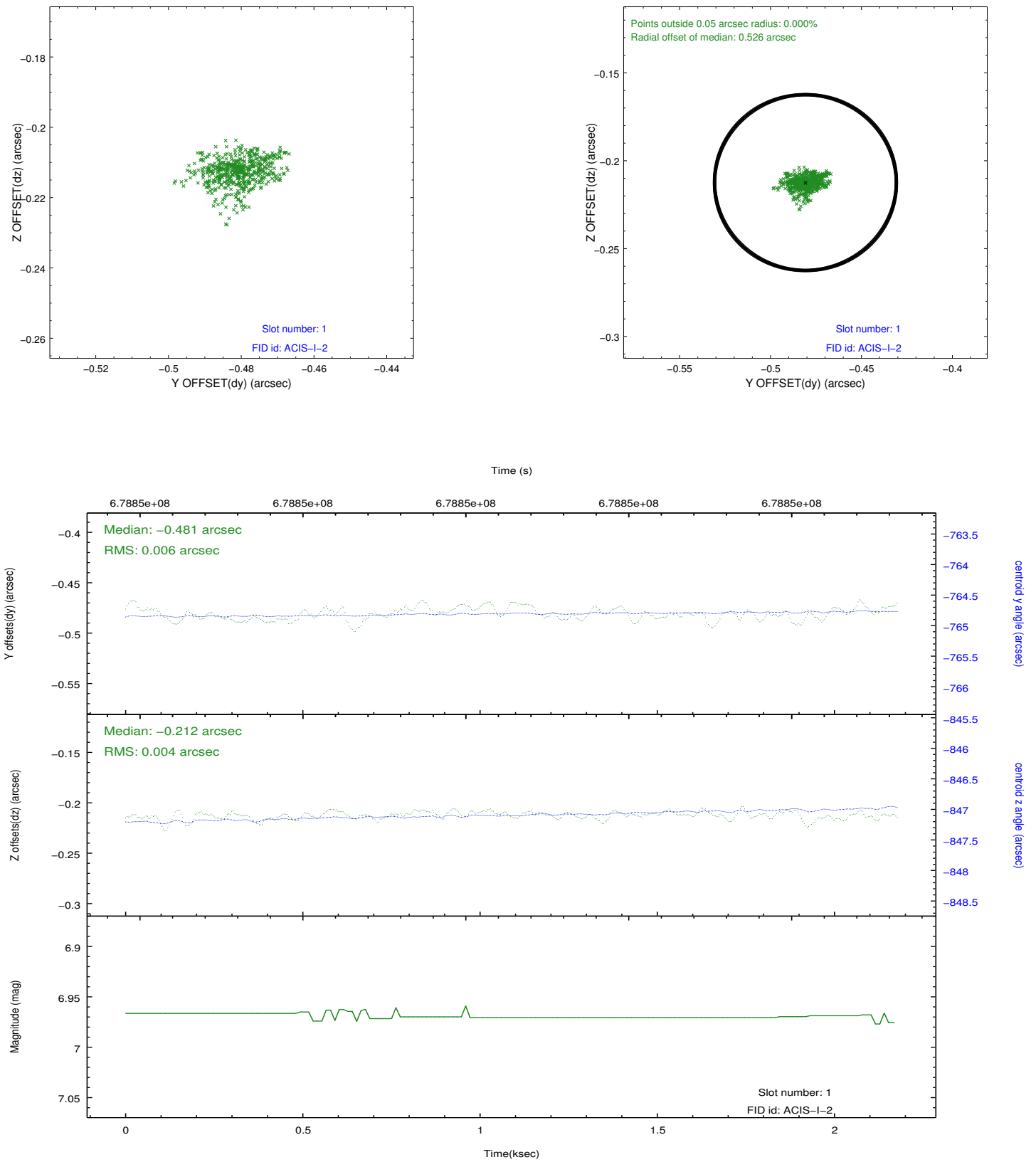


2.5 FID Slots

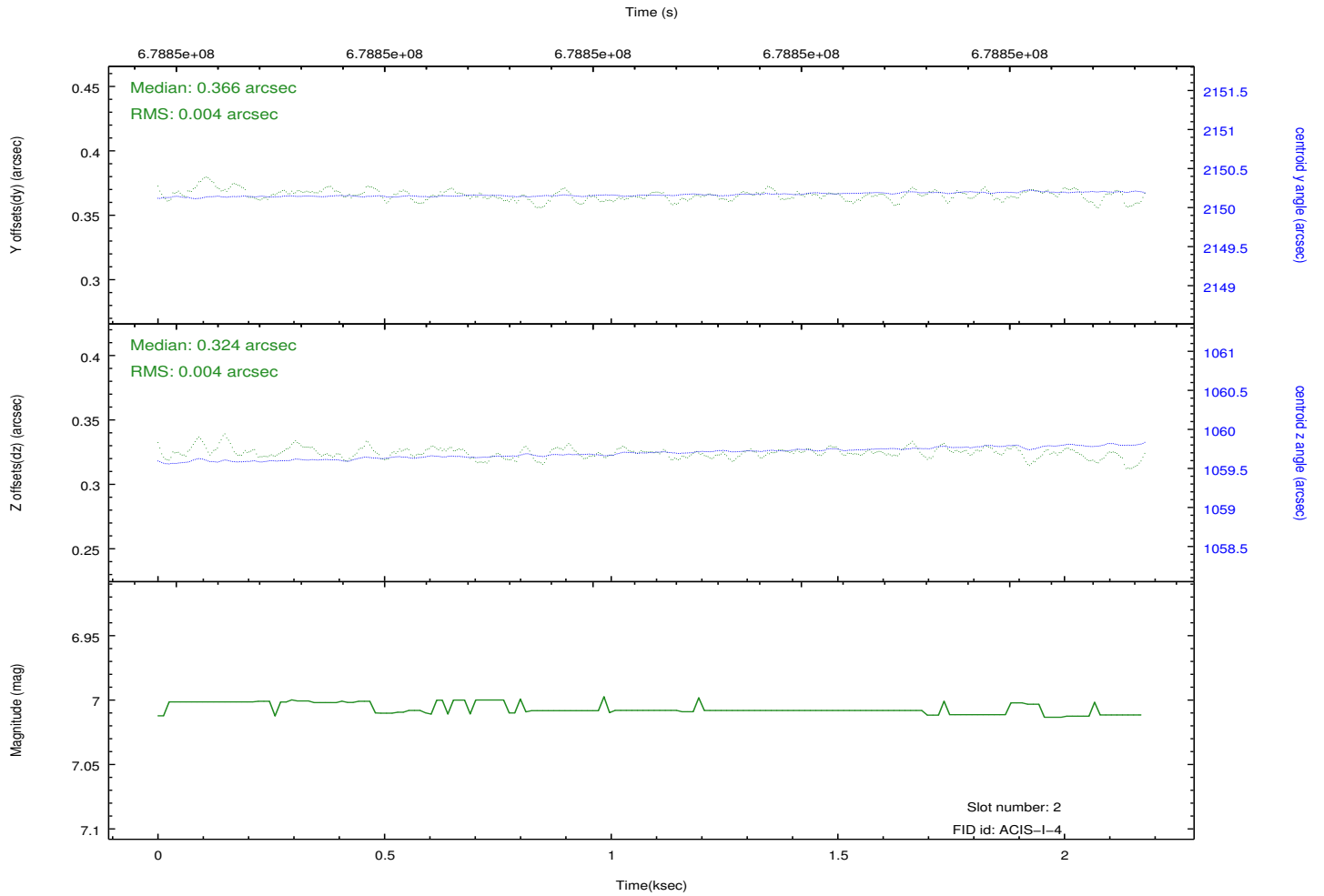
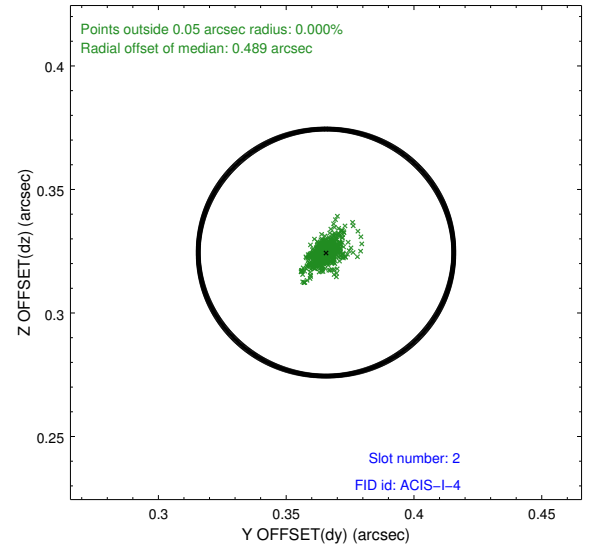
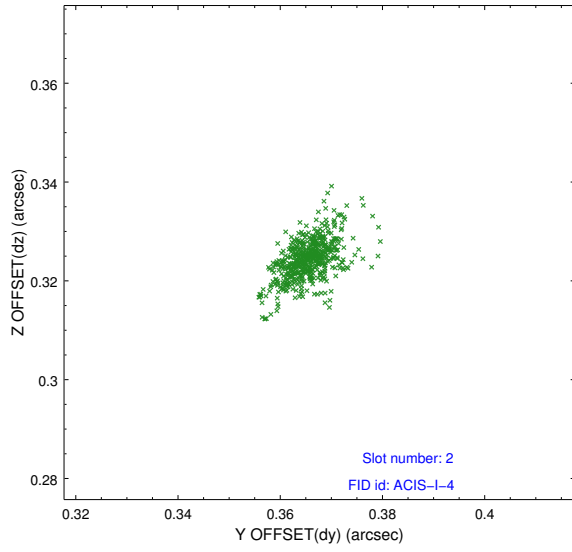
2.5.1 Slot 0



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	2.0801000161171

A.2 Comments