

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21567 - L2 Version 1
Chandra X-Ray Center

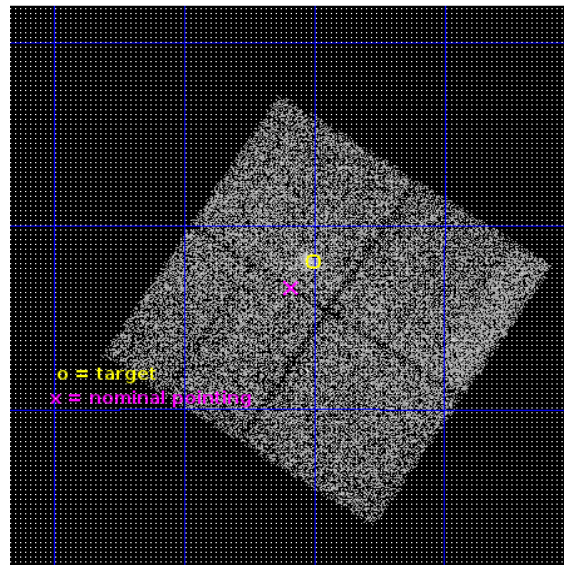
L2 Processing Date : May 2 2019

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1 Front

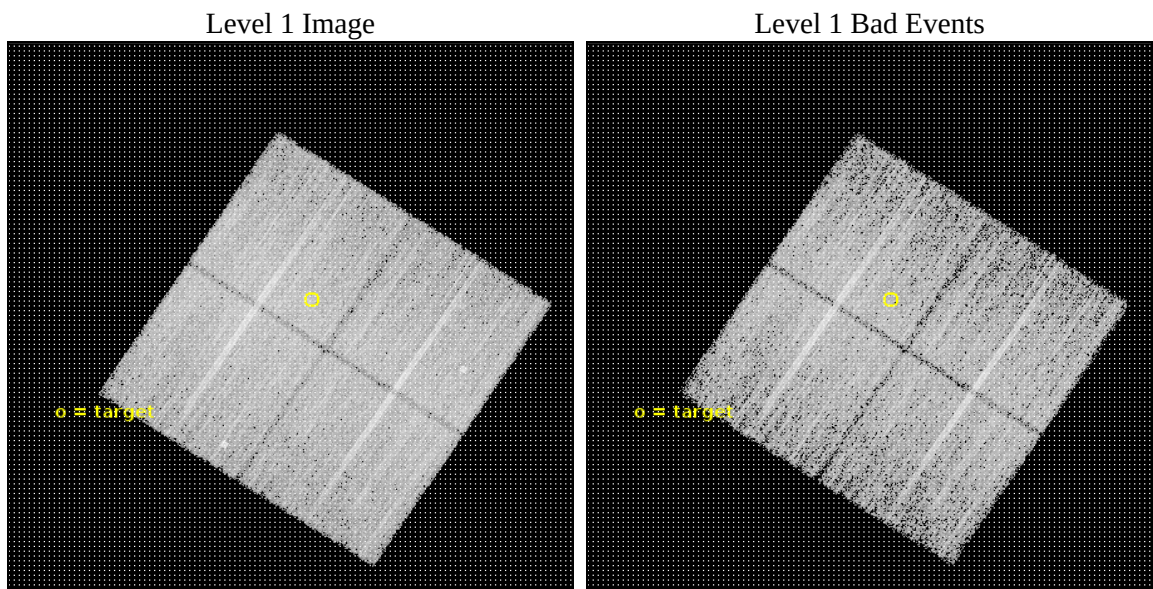
seq_num	801845	Sequence number
obs_id	21567	Observation id
title	Characterizing the most X-ray luminous galaxy clusters at z=0.5-1	
observer	Harald Ebeling	Principal investigator
object	eMACSJ1341.9-2442	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	205.500417	Observer's specified target RA [deg]
dec_targ	-24.699722	Observer's specified target Dec [deg]
ra_nom	205.52179938175	Nominal RA [deg]
dec_nom	-24.722979857131	Nominal Dec [deg]
roll_nom	303.21762921382	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17905.559087634	Sum of GTIs [s]
livetime	17671.609776273	Livetime [s]
ontime0	17905.559127688	Sum of GTIs [s]
ontime1	17908.700137854	Sum of GTIs [s]
ontime2	17905.559097648	Sum of GTIs [s]
ontime3	17905.559087634	Sum of GTIs [s]
l2events	51420	Number of level 2 events



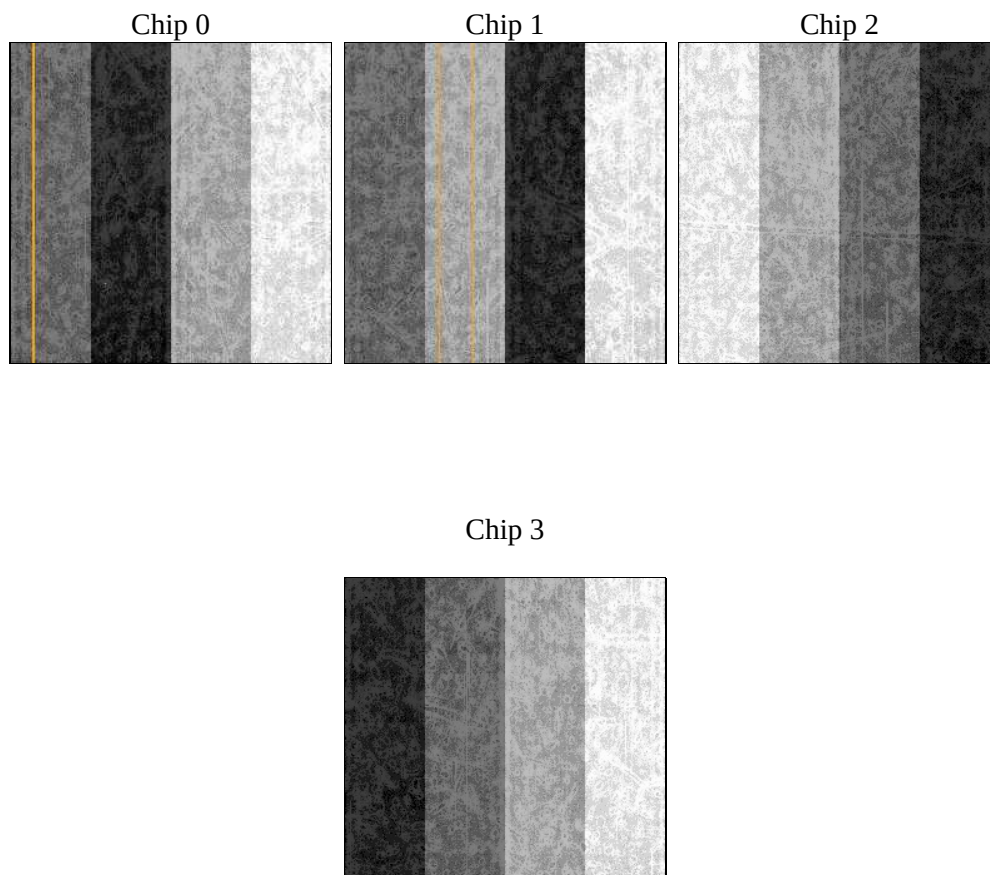
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	17905.559087634	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	17905.559127688	Sum of GTIs [s]
date	2019-05-03T01:13:27	Date and time of file creation	ontime1	17908.700137854	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	17905.559097648	Sum of GTIs [s]
			ontime3	17905.559087634	Sum of GTIs [s]
			l1events	508339	Number of level 1 events

2.1.4 Events

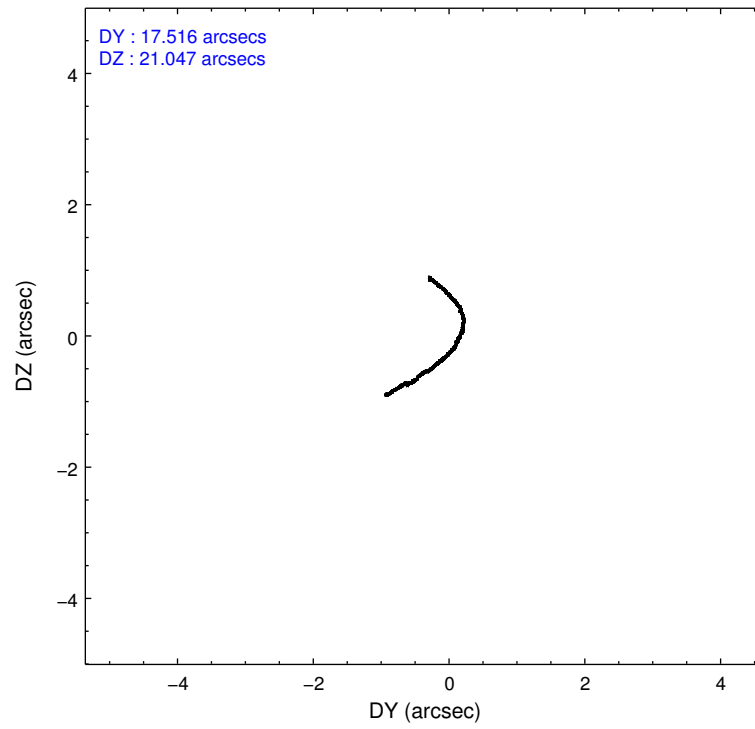
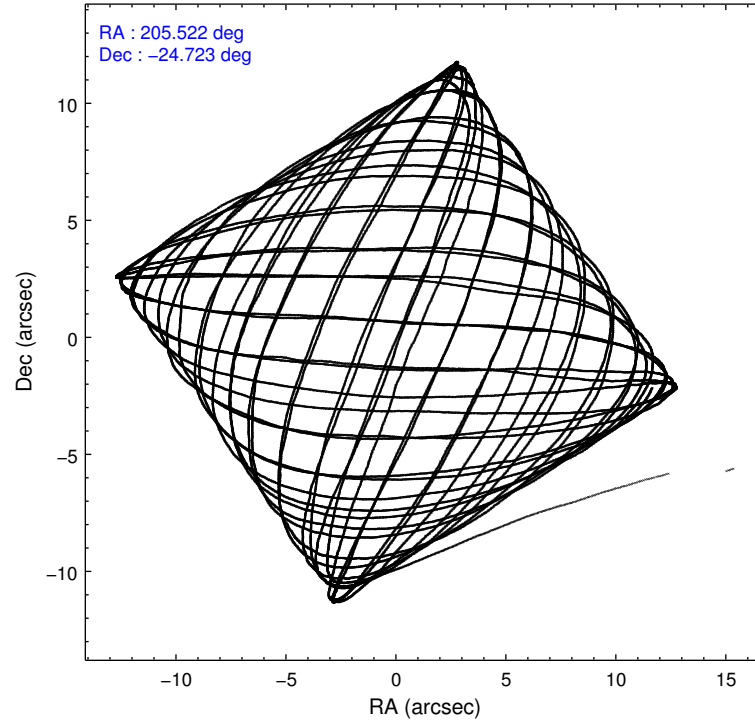
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	119127	126760	134145	128307
rejected events	103718	109464	118540	113824
rejected %	87%	86%	88%	88%

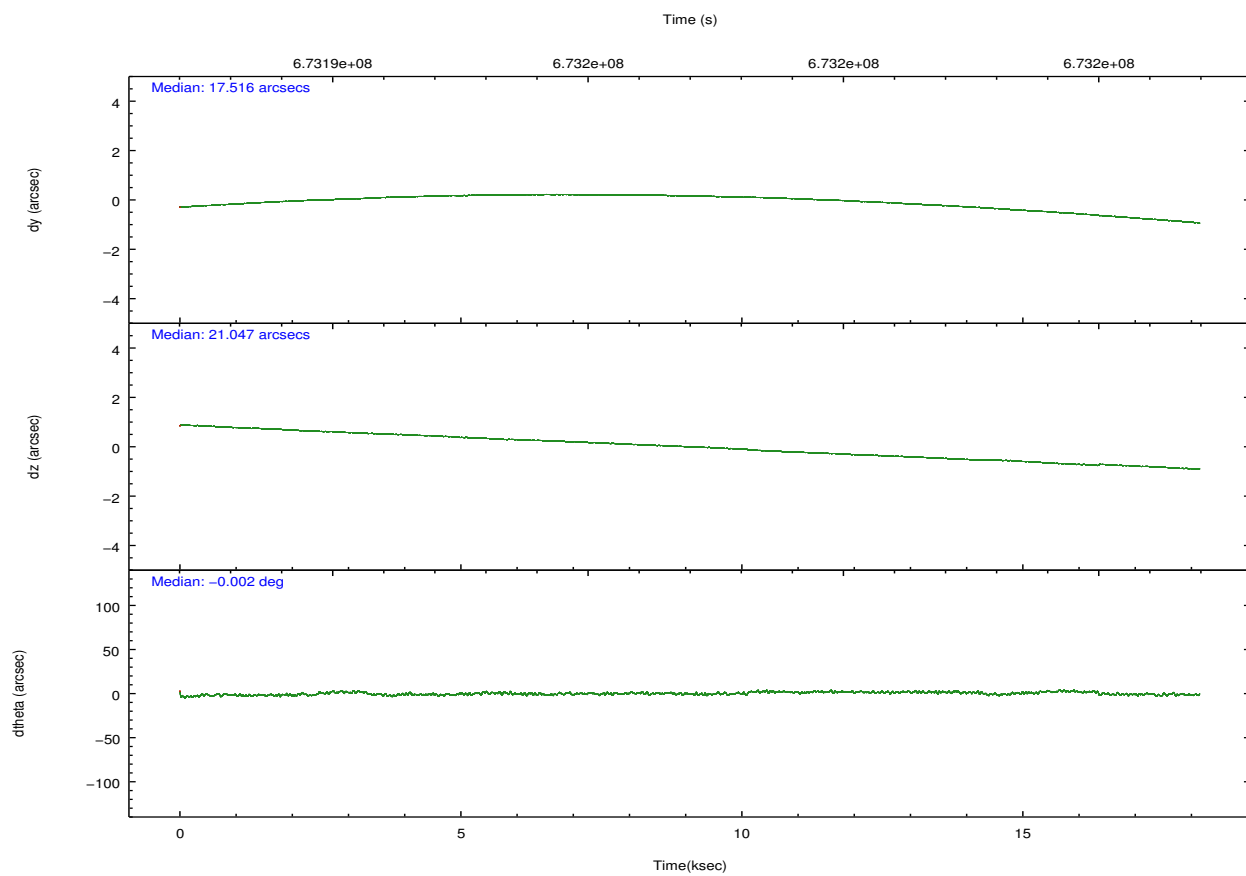
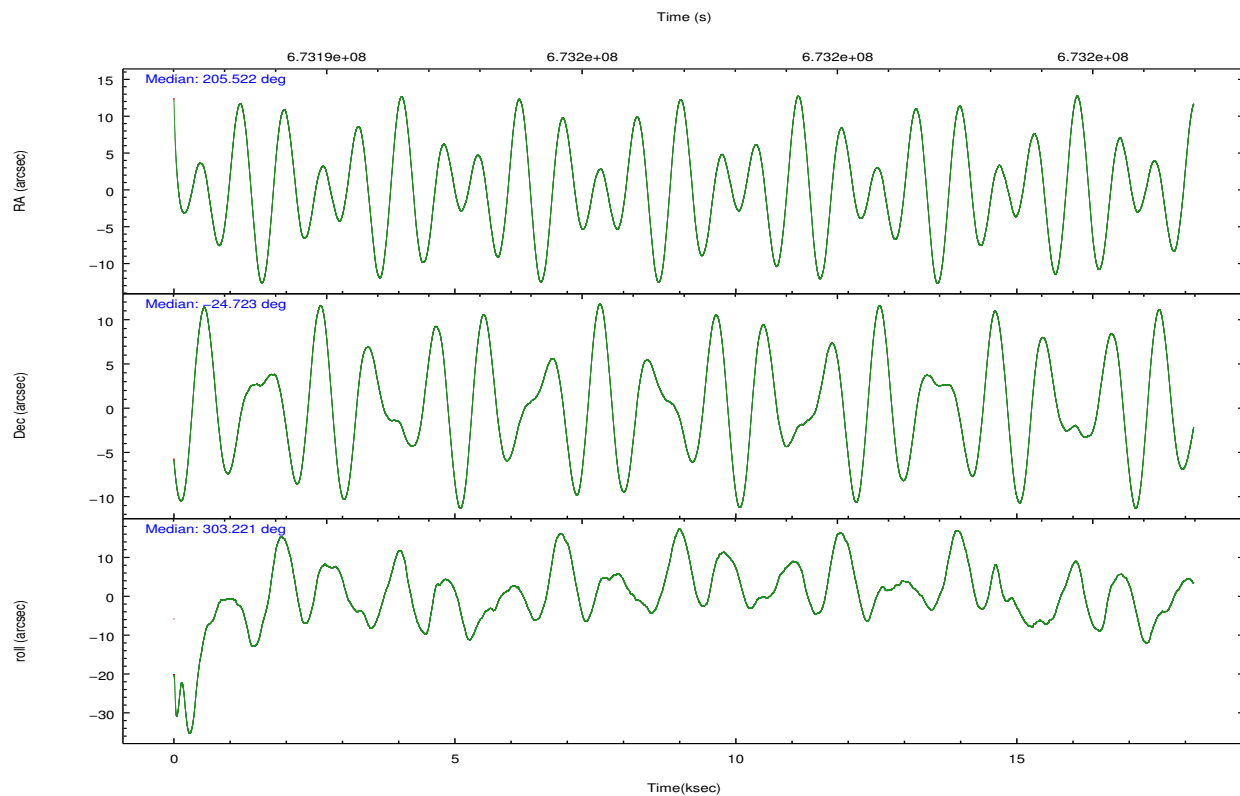
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5222	6073	5924	5346
	4%	4%	4%	4%
grade 1 events	65	92	75	66
	0%	0%	0%	0%
grade 2 events	3928	4396	3758	3185
	3%	3%	2%	2%
grade 3 events	1542	1555	1455	1536
	1%	1%	1%	1%
grade 4 events	1487	1550	1491	1474
	1%	1%	1%	1%
grade 5 events	5931	6089	5788	6414
	4%	4%	4%	4%
grade 6 events	3231	3726	2979	2951
	2%	2%	2%	2%
grade 7 events	97721	103279	112675	107335
	82%	81%	83%	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	205.494625	205.5217993817533	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.710616	-24.72297985713077	Alternating exposures requested	N	N
[deg] Pointing Roll	302.997575	303.2176292138178	[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	-229.442463	-229.4438428438578			
[mm] SIM translation stage offset	-4.15	-4.148610159071865			
[s] Observation start time (MET)	673188081.184000	673186882.37735			
Observation start date	2019-05-02T12:40:12	2019-05-02T12:21:22			
[s] Observation end time (MET)	673206081.184000	673207140.47857			
Observation end date	2019-05-02T17:40:12	2019-05-02T17:59:00			
Read mode	TIMED	TIMED			

2.3 Aspect



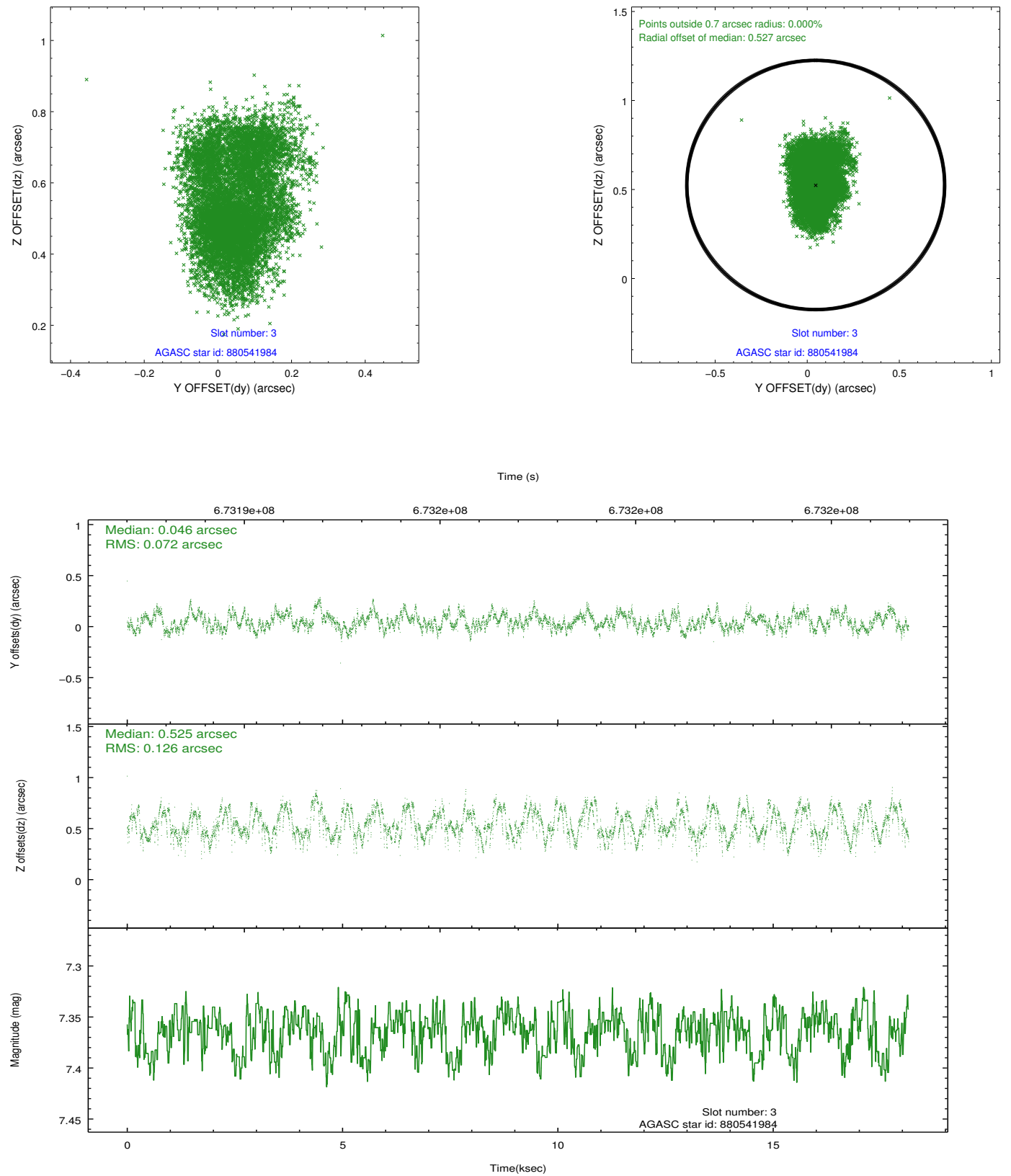


Slot Statistics

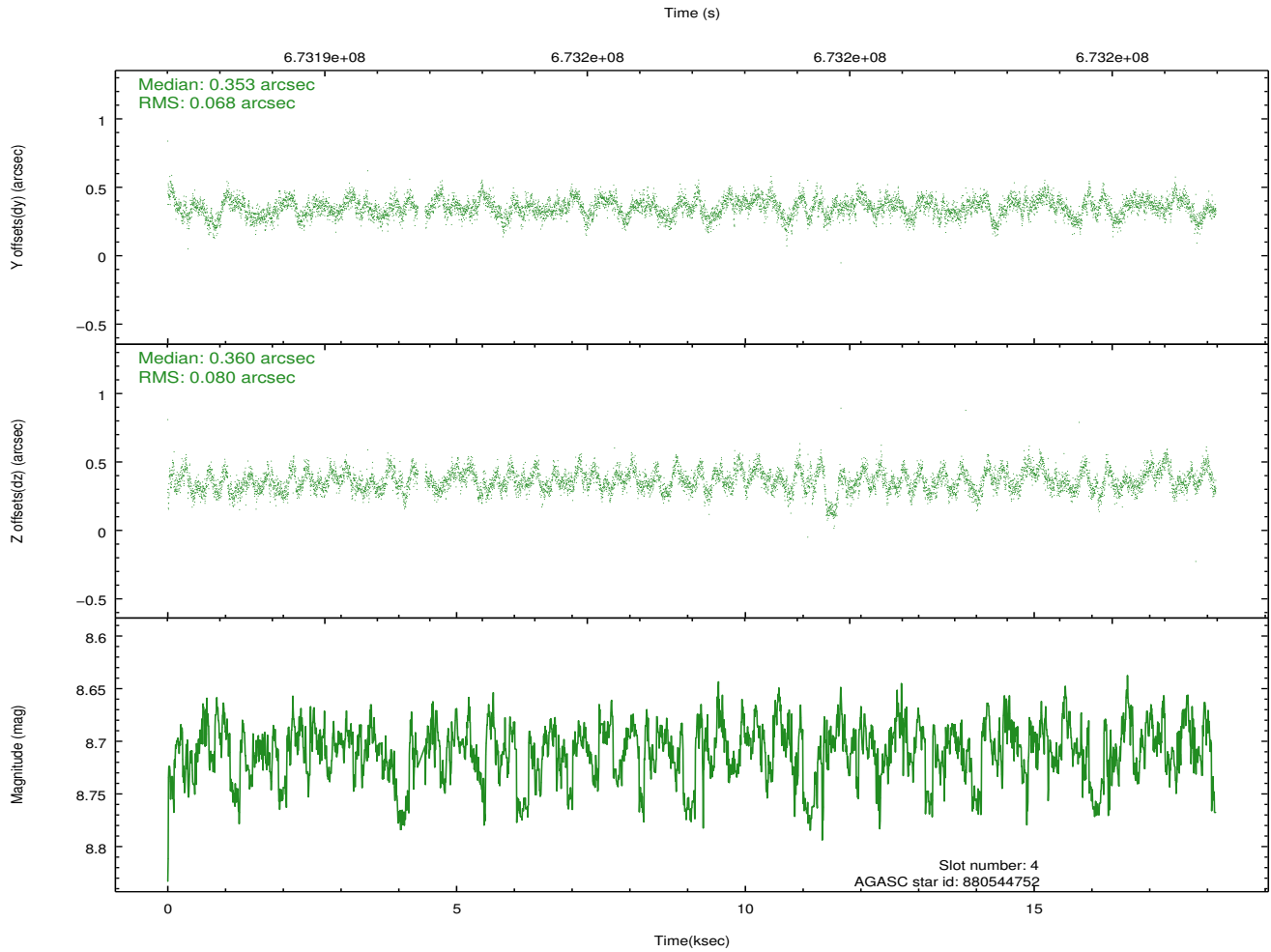
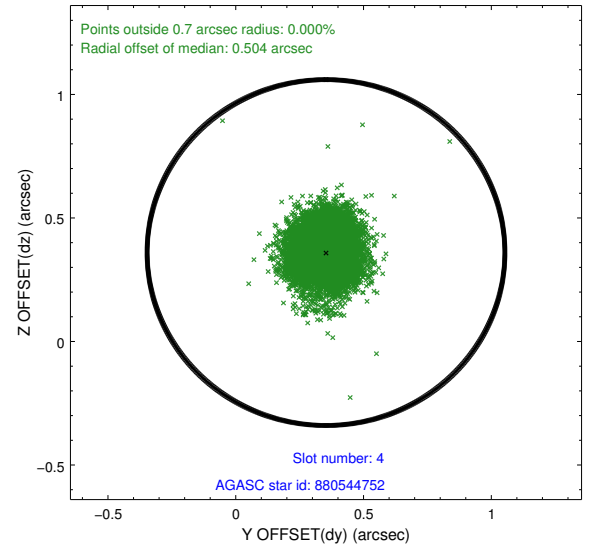
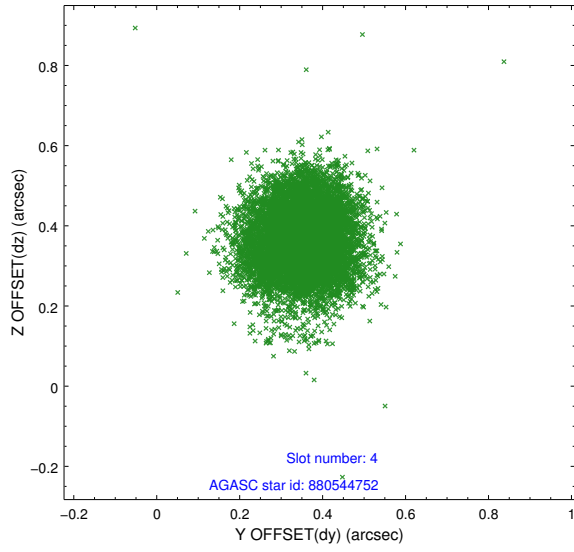
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.09	4426	1.000	-0.492	-0.409	0.031	0.040	0.000000	0.000000	-772.99	-936
1	FID		ACIS-I-3	7.37	4427	1.000	-0.183	0.054	0.035	0.050	0.000000	0.000000	38.96	-1063
2	FID		ACIS-I-4	7.06	4426	1.000	0.572	0.417	0.015	0.024	0.000000	0.000000	2142.20	970
3	GUIDE	used	880541984	7.36	8852	1.000	0.046	0.525	0.159	0.242	204.756495	-24.862666	-847.85	-2323
4	GUIDE	used	880544752	8.71	8788	1.000	0.353	0.360	0.111	0.177	205.041482	-24.489548	-1472.98	-812
5	GUIDE	used	880679624	9.38	8836	1.000	-0.446	-0.498	0.152	0.247	205.919976	-24.539062	242.54	1503
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	880682456	9.60	8714	1.000	0.049	-0.421	0.209	0.342	205.661482	-24.544345	-201.71	785

2.4 Star Slots

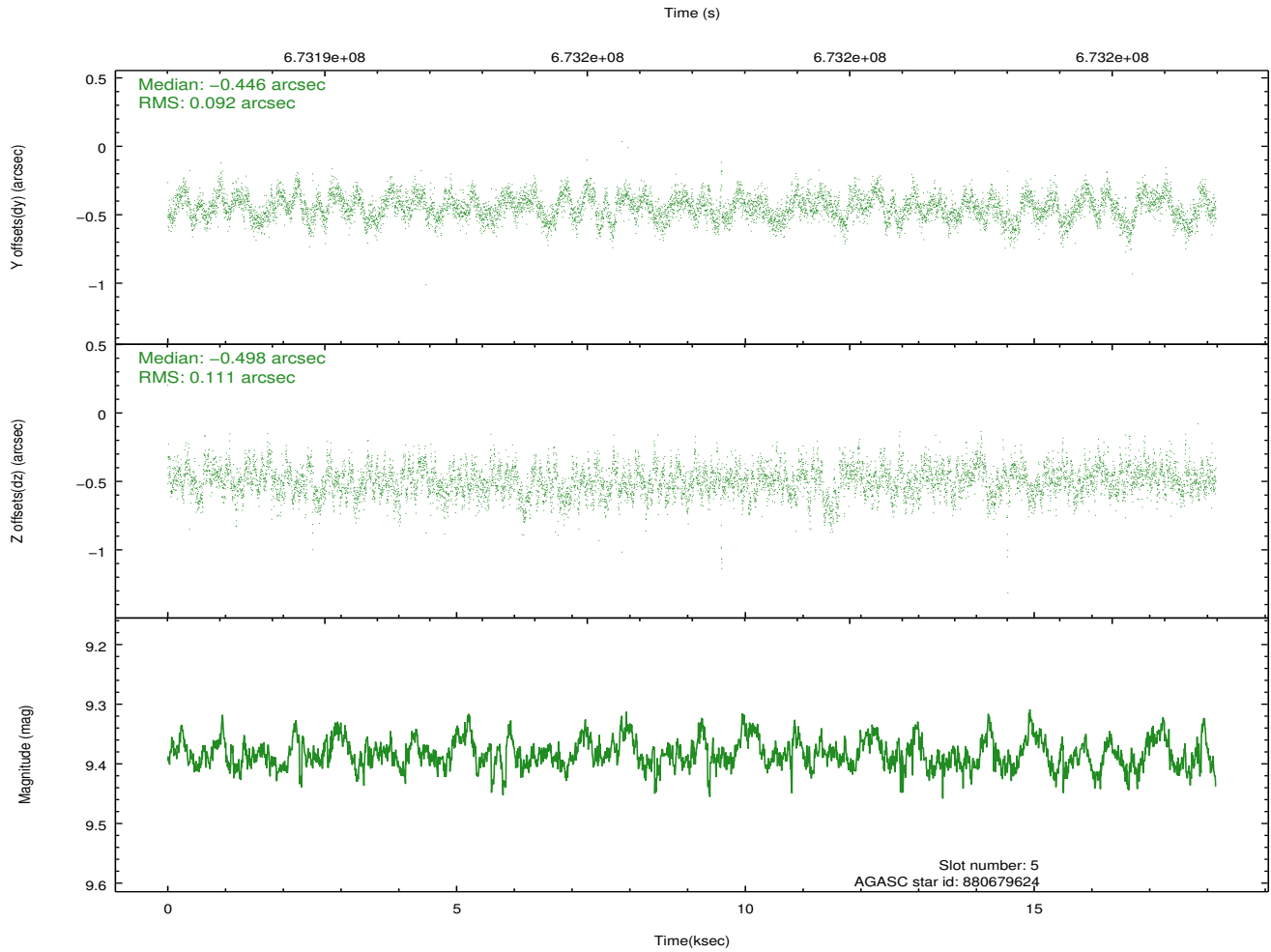
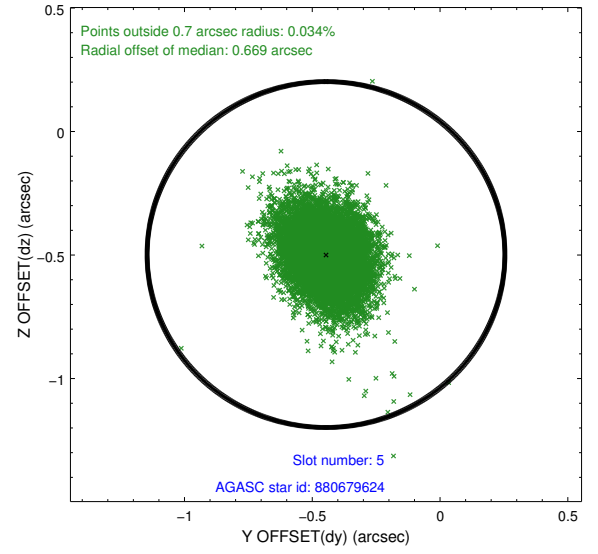
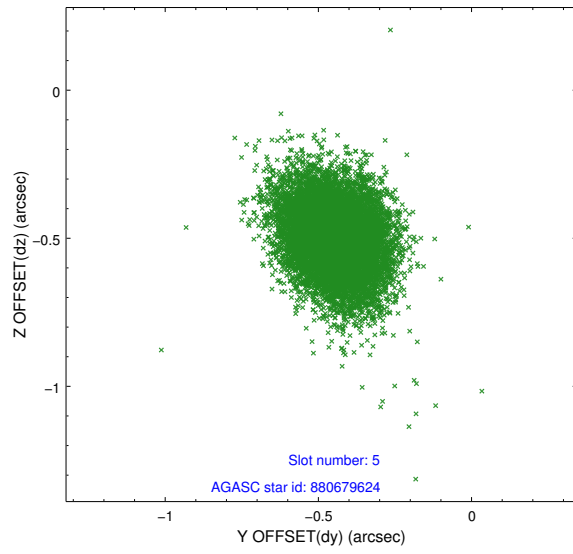
2.4.1 Slot 3



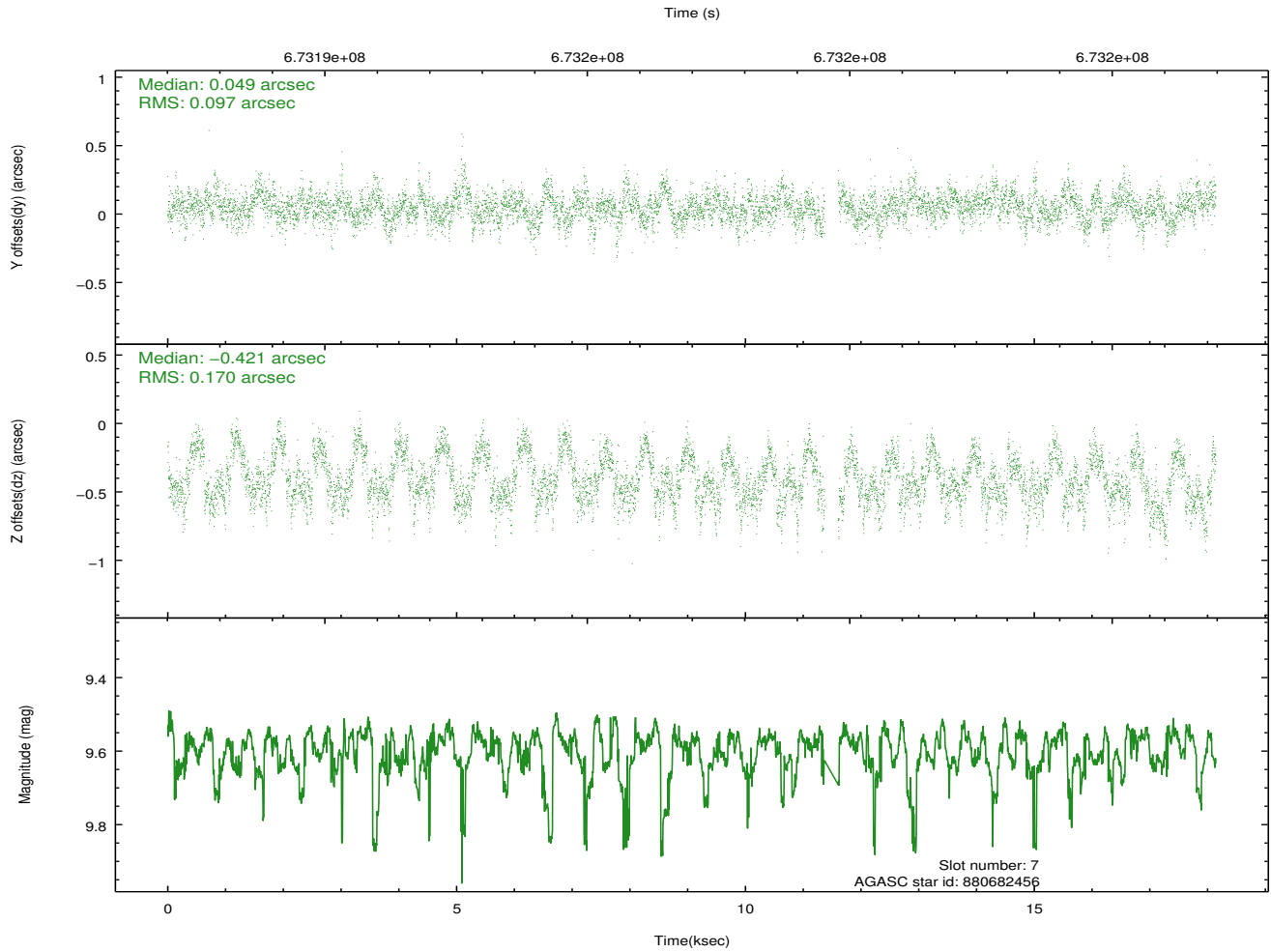
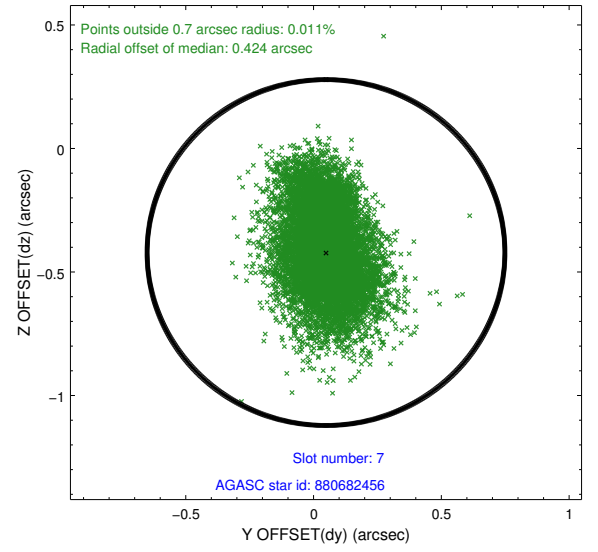
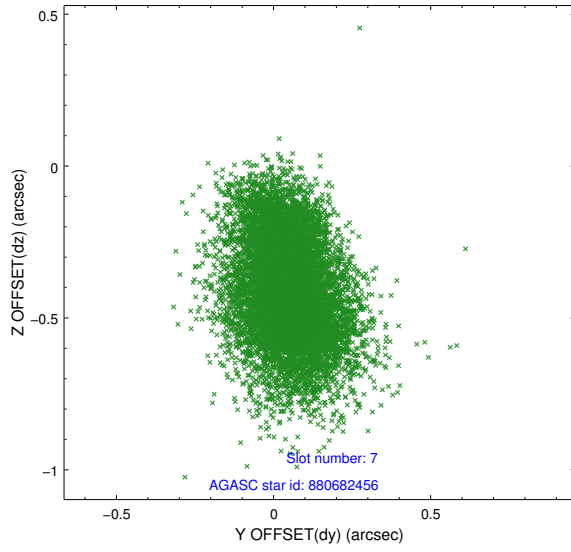
2.4.2 Slot 4



2.4.3 Slot 5

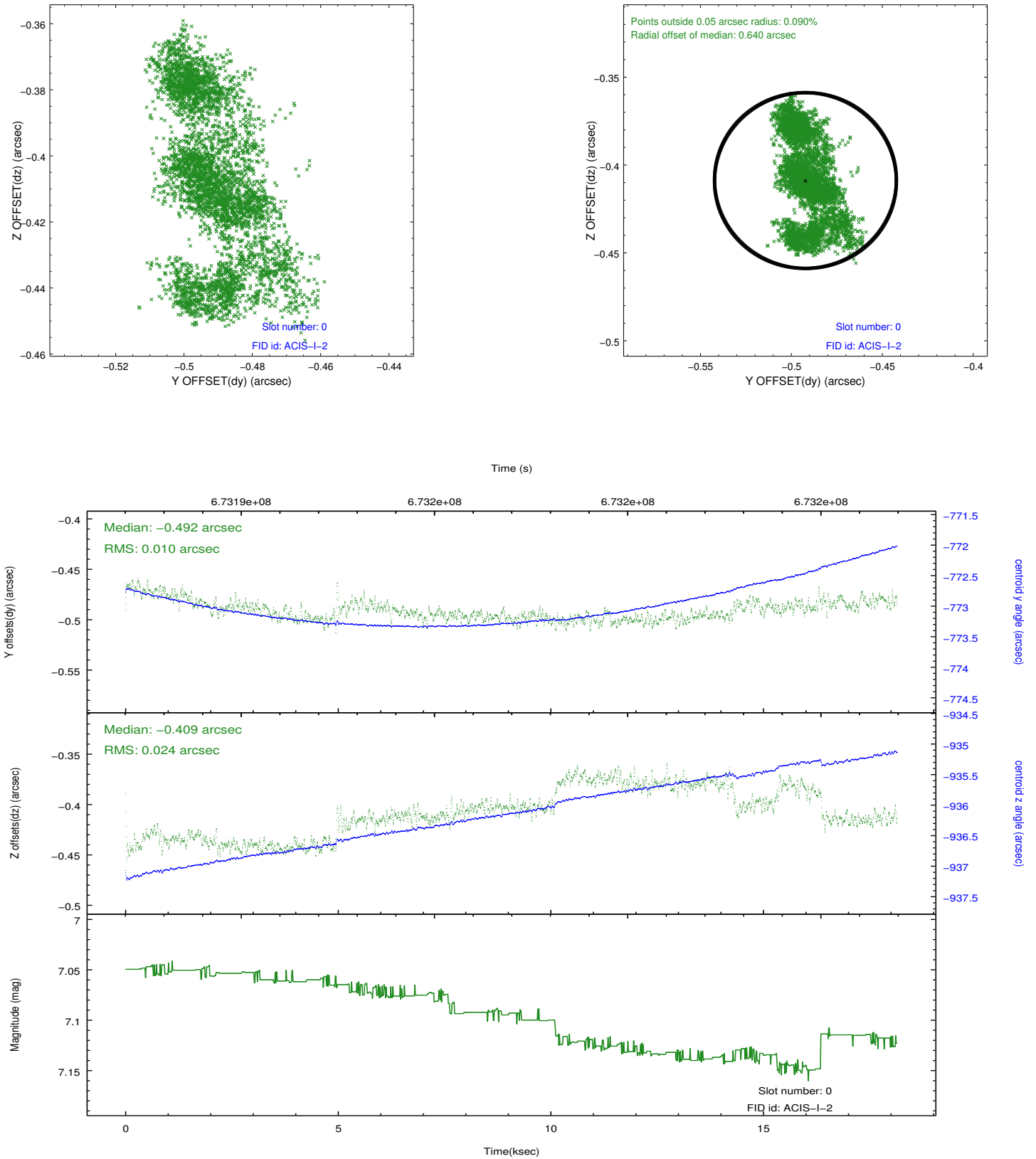


2.4.4 Slot 7

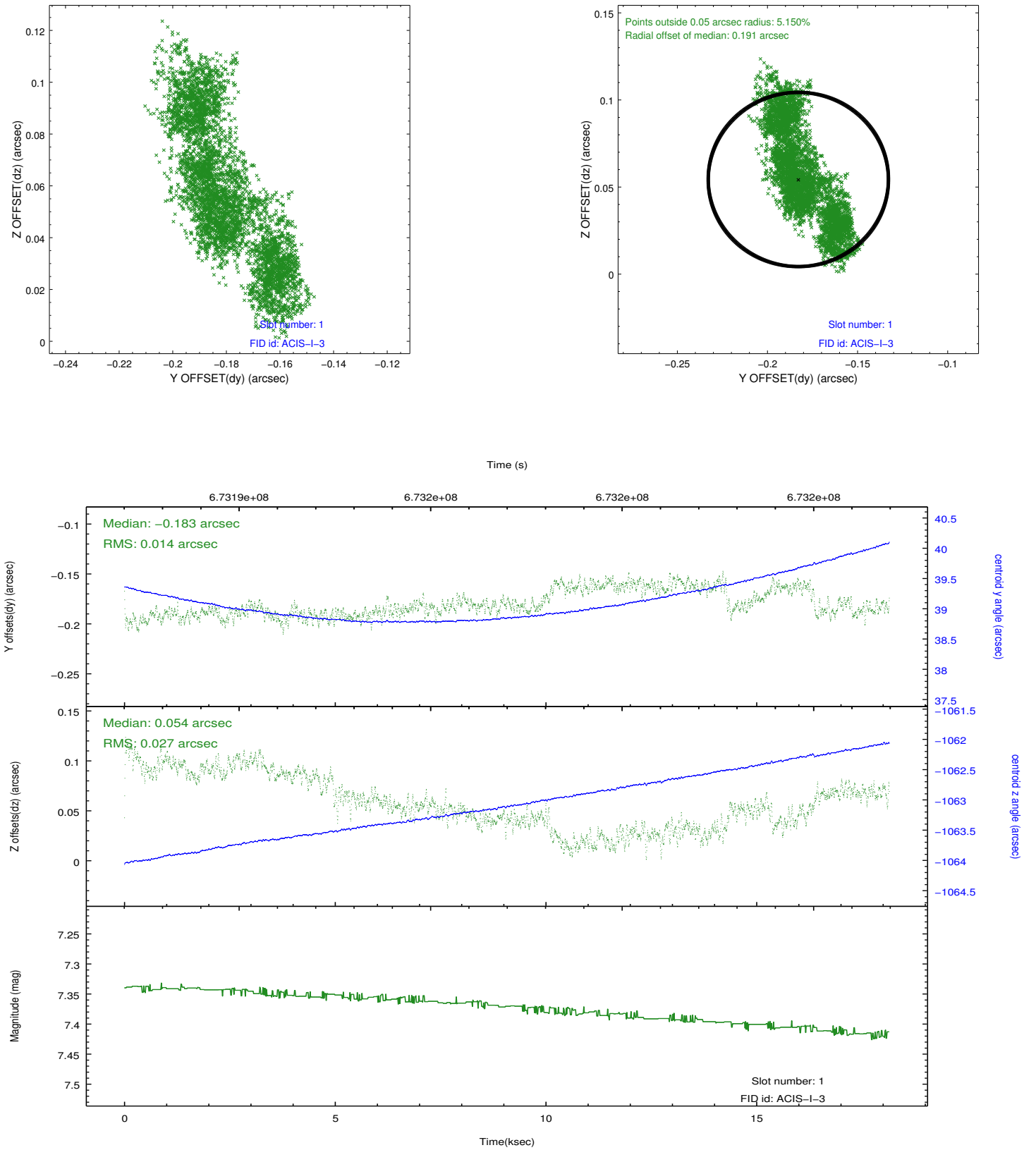


2.5 FID Slots

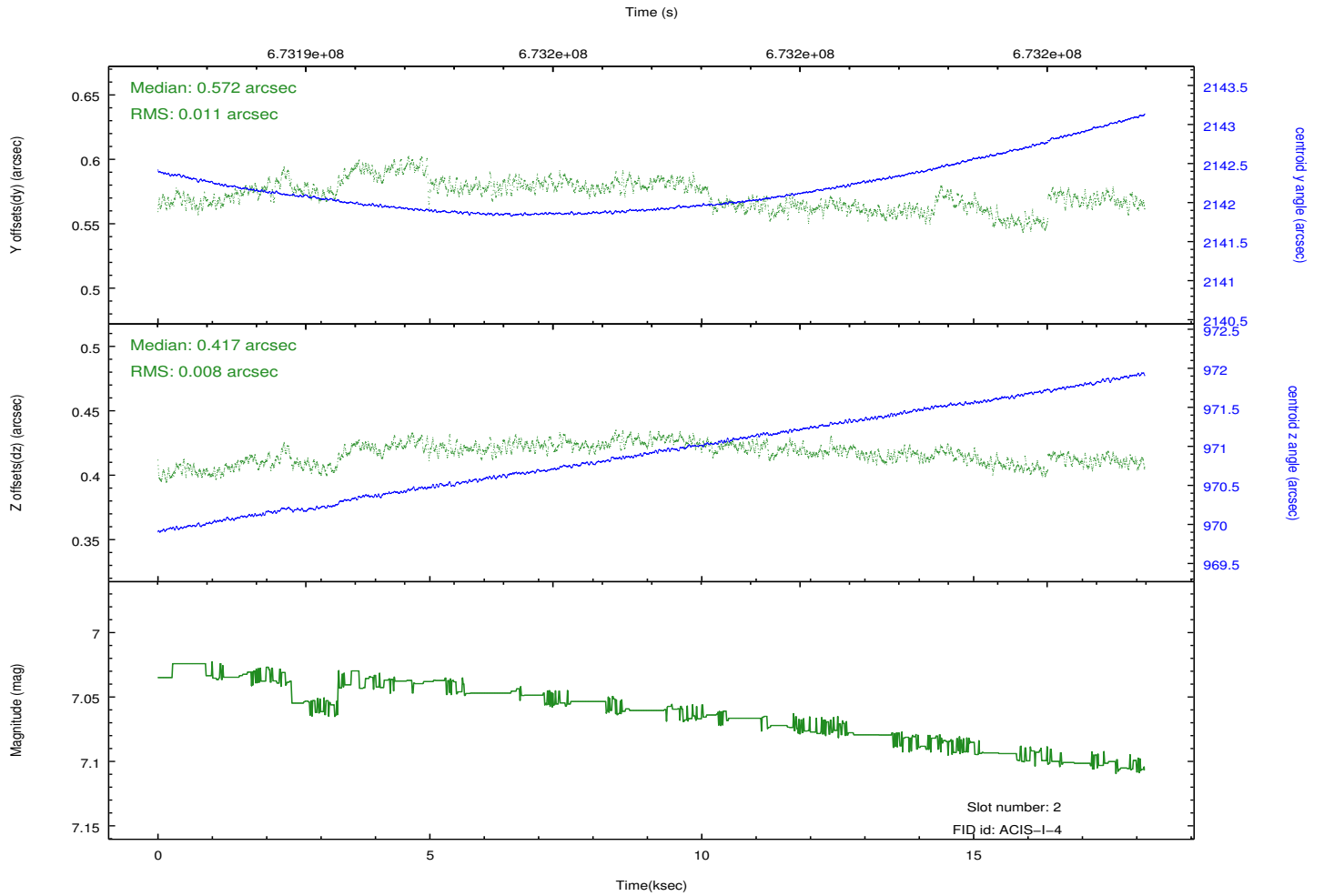
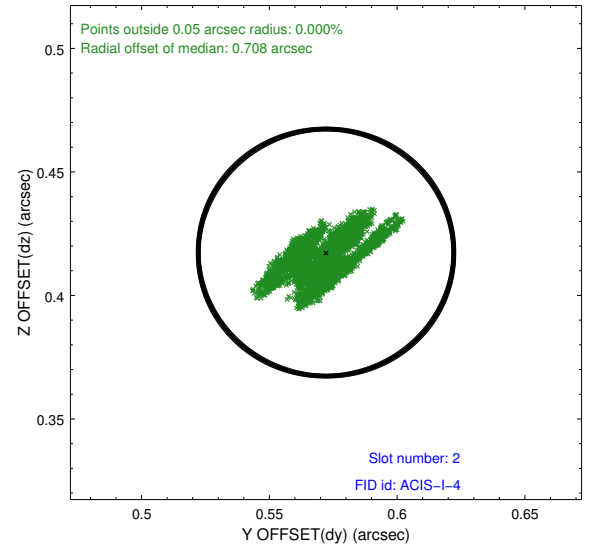
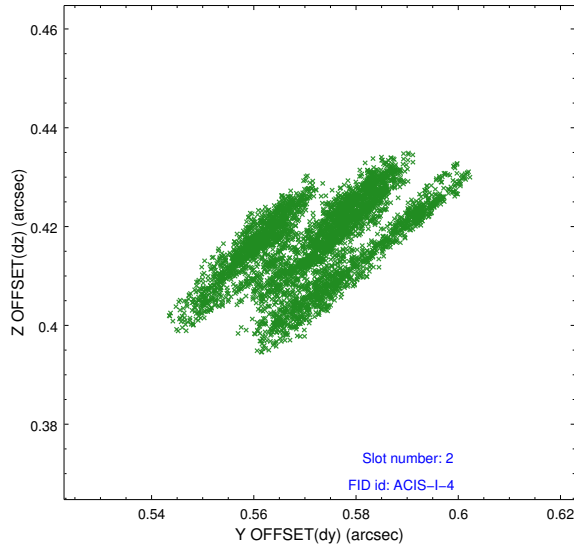
2.5.1 Slot 0



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)	2019.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.905559087634

A.2 Comments

Joint Proposal with HST.

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The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.