

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21592 - L2 Version 1
Chandra X-Ray Center

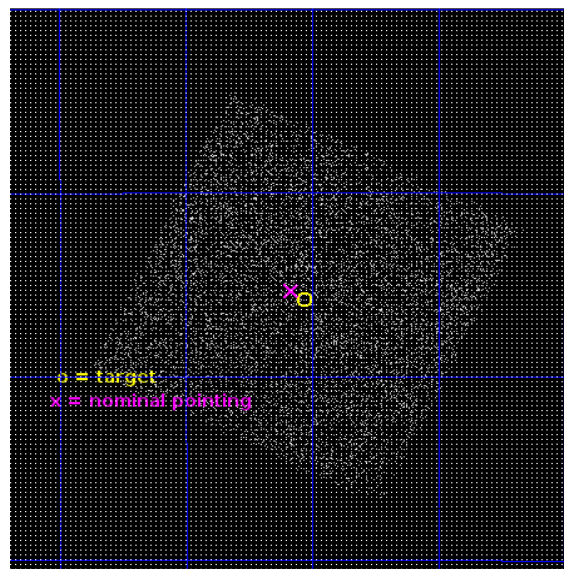
L2 Processing Date : Jul 3 2019

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1 Front

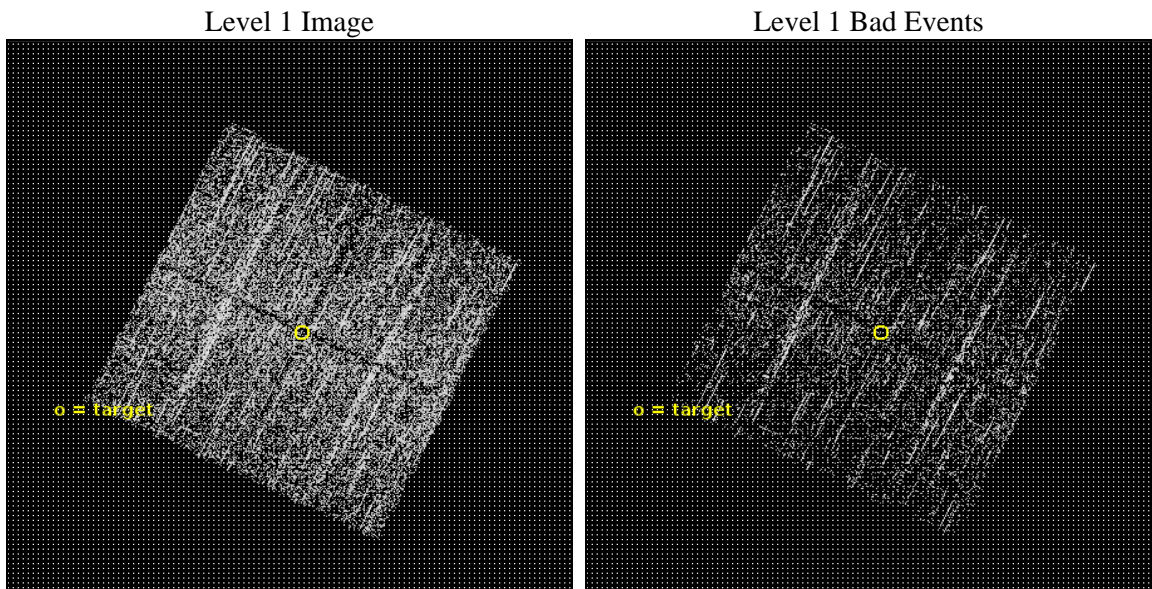
seq_num	300424	Sequence number
obs_id	21592	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.13209	Observer's specified target RA [deg]
dec_targ	-28.263281	Observer's specified target Dec [deg]
ra_nom	267.14556185264	Nominal RA [deg]
dec_nom	-28.255316507393	Nominal Dec [deg]
roll_nom	296.21520673981	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1906.500014782	Sum of GTIs [s]
livetime	1881.5901885439	Livetime [s]
ontime0	1906.500014782	Sum of GTIs [s]
ontime1	1906.500014782	Sum of GTIs [s]
ontime2	1906.500014782	Sum of GTIs [s]
ontime3	1906.500014782	Sum of GTIs [s]
l2events	6437	Number of level 2 events



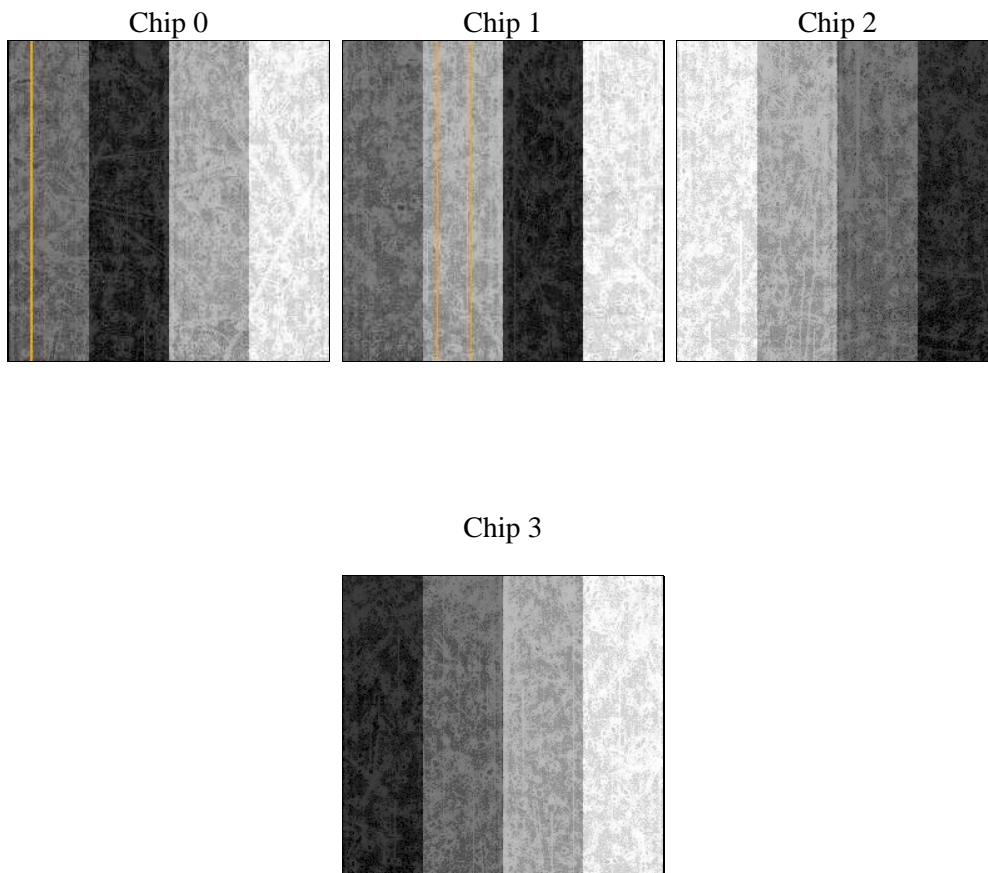
2 OBI

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	1906.500014782	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1906.500014782	Sum of GTIs [s]
date	2019-07-03T20:54:06	Date and time of file creation	ontime1	1906.500014782	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1906.500014782	Sum of GTIs [s]
			ontime3	1906.500014782	Sum of GTIs [s]
			l1events	54710	Number of level 1 events

2.1.4 Events

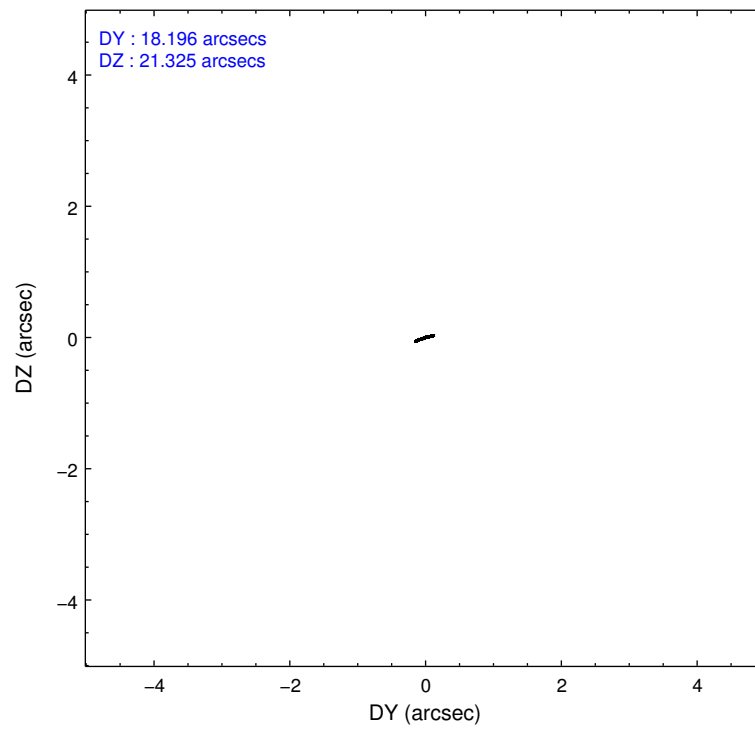
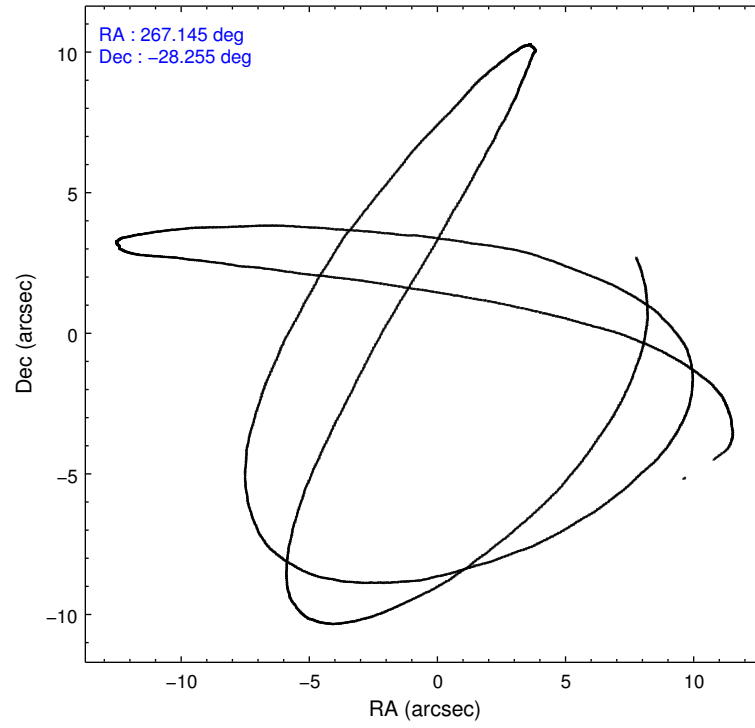
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13177	13295	13756	14482
rejected events	11317	11246	11938	12658
rejected %	85%	84%	86%	87%

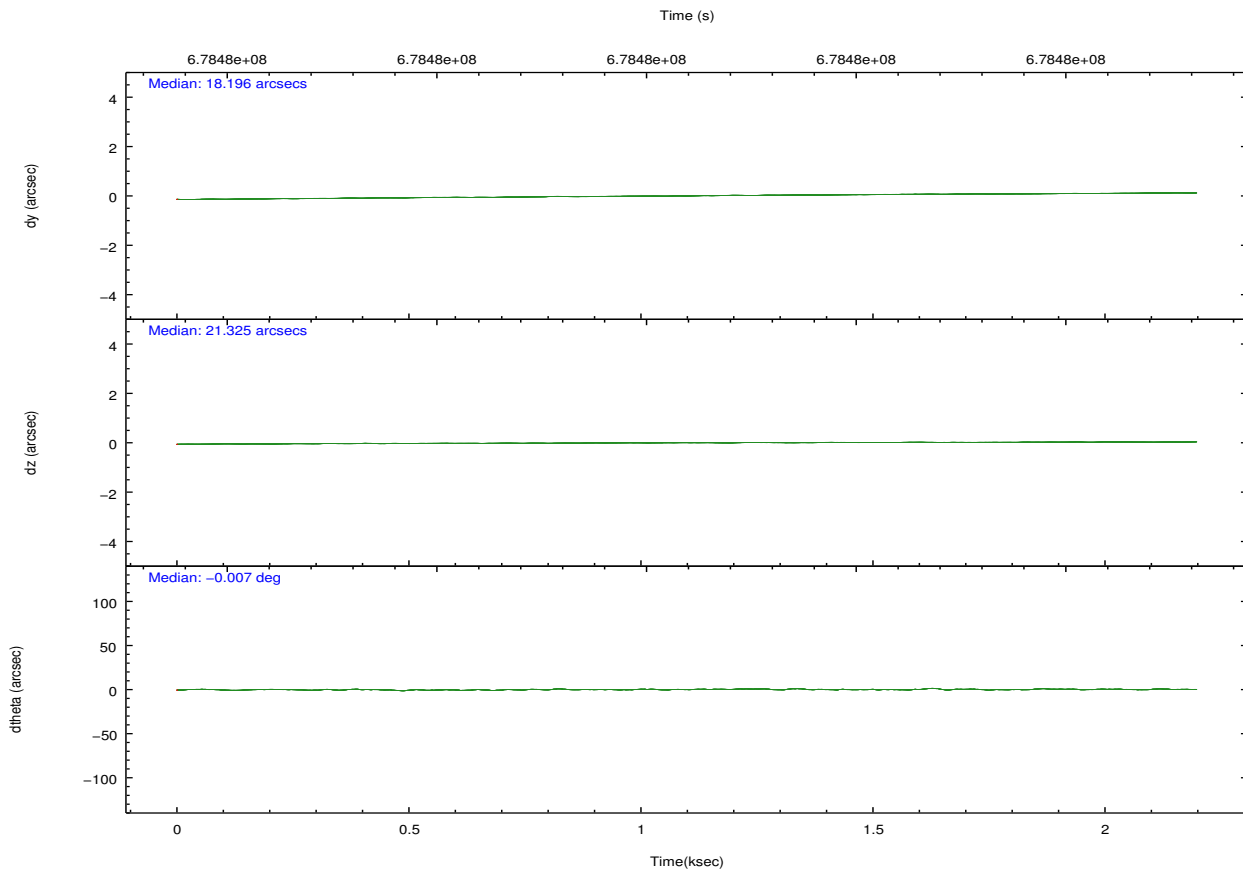
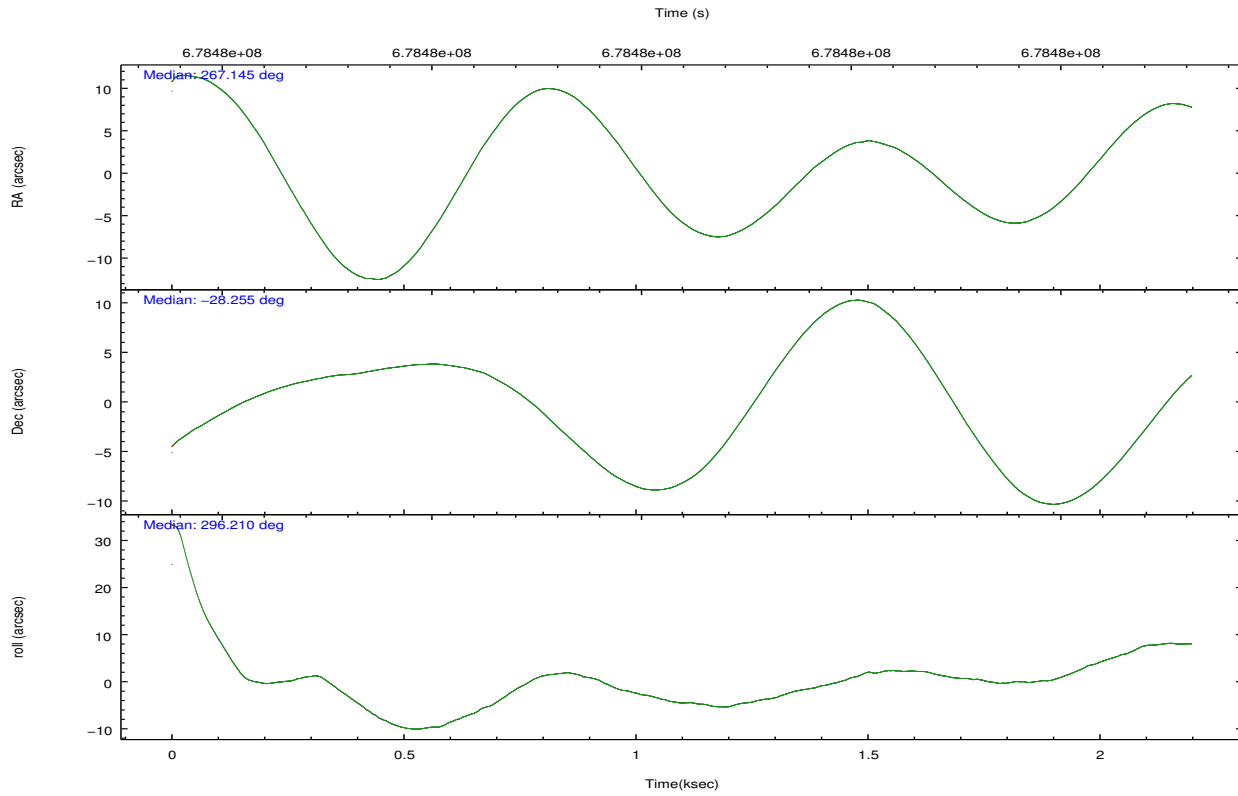
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	706	769	726	717
	5%	5%	5%	4%
grade 1 events	8	8	8	11
	0%	0%	0%	0%
grade 2 events	440	474	431	370
	3%	3%	3%	2%
grade 3 events	165	162	164	175
	1%	1%	1%	1%
grade 4 events	165	168	159	186
	1%	1%	1%	1%
grade 5 events	635	656	691	676
	4%	4%	5%	4%
grade 6 events	389	480	344	384
	2%	3%	2%	2%
grade 7 events	10669	10578	11233	11963
	80%	79%	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	267.119283	267.1455618526373	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.239990	-28.25531650739299	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993939	296.2152067398079	[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)	678483200.184000	678482782.48242			
Observation start date	2019-07-02T19:32:11	2019-07-02T19:26:22			
[s] Observation end time (MET)	678485200.184000	678485334.22008			
Observation end date	2019-07-02T20:05:31	2019-07-02T20:08:54			
Read mode	TIMED	TIMED			

2.3 Aspect





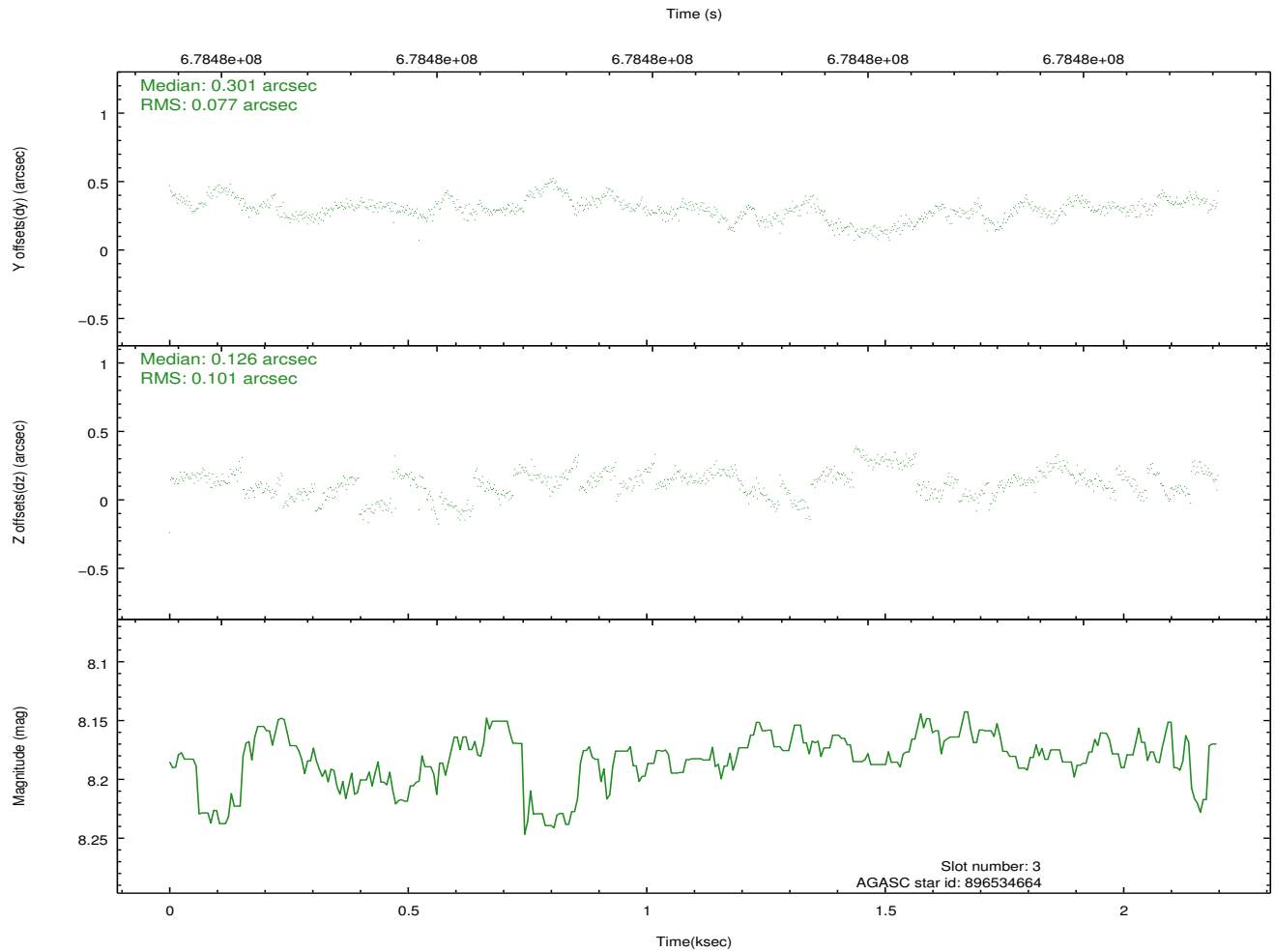
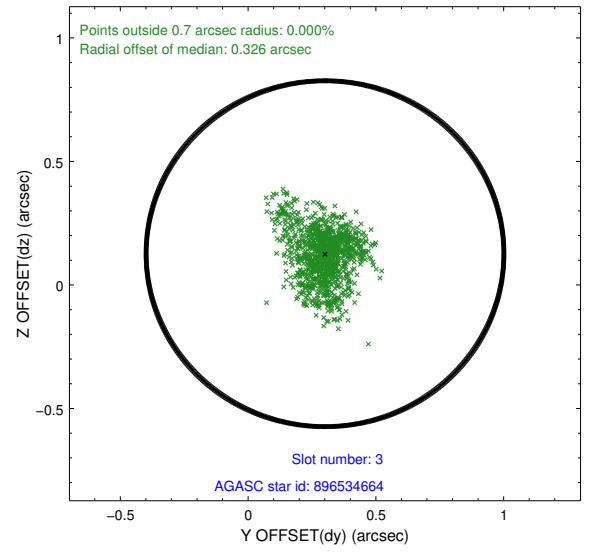
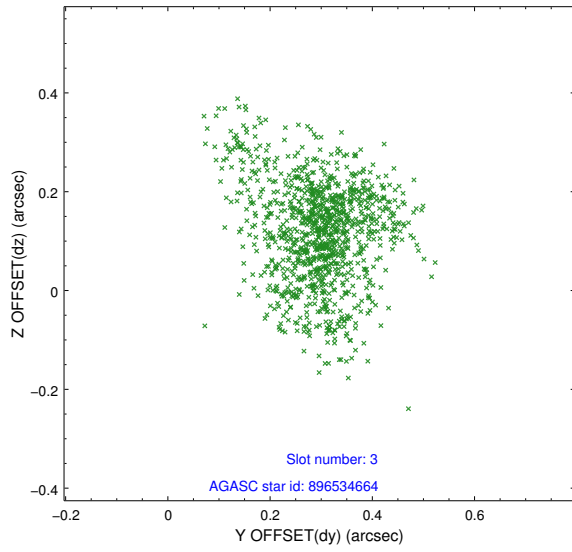
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.18	537	1.000	0.133	-0.146	0.007	0.012	0.000000	0.000000	921.39	-845
1	FID		ACIS-I-5	7.15	537	1.000	-0.565	0.016	0.007	0.012	0.000000	0.000000	-1825.96	1050
2	FID		ACIS-I-6	7.16	537	1.000	0.340	0.200	0.006	0.011	0.000000	0.000000	383.67	1699
3	GUIDE	used	896534664	8.18	1072	1.000	0.301	0.126	0.133	0.231	266.405570	-28.407461	-441.11	-2297
4	GUIDE	used	896537176	8.01	1073	1.000	-0.108	0.140	0.133	0.234	266.498272	-28.678259	563.17	-2457
5	GUIDE	used	896540888	7.90	1069	1.000	-0.235	-0.525	0.100	0.154	267.212234	-28.246138	149.55	253
6	GUIDE	used	896541576	8.17	1073	1.000	-0.101	-0.178	0.104	0.168	267.051055	-28.762912	1598.03	-1017
7	GUIDE	used	896538696	6.87	1072	1.000	0.141	0.463	0.081	0.131	266.298470	-28.325572	-853.21	-2476

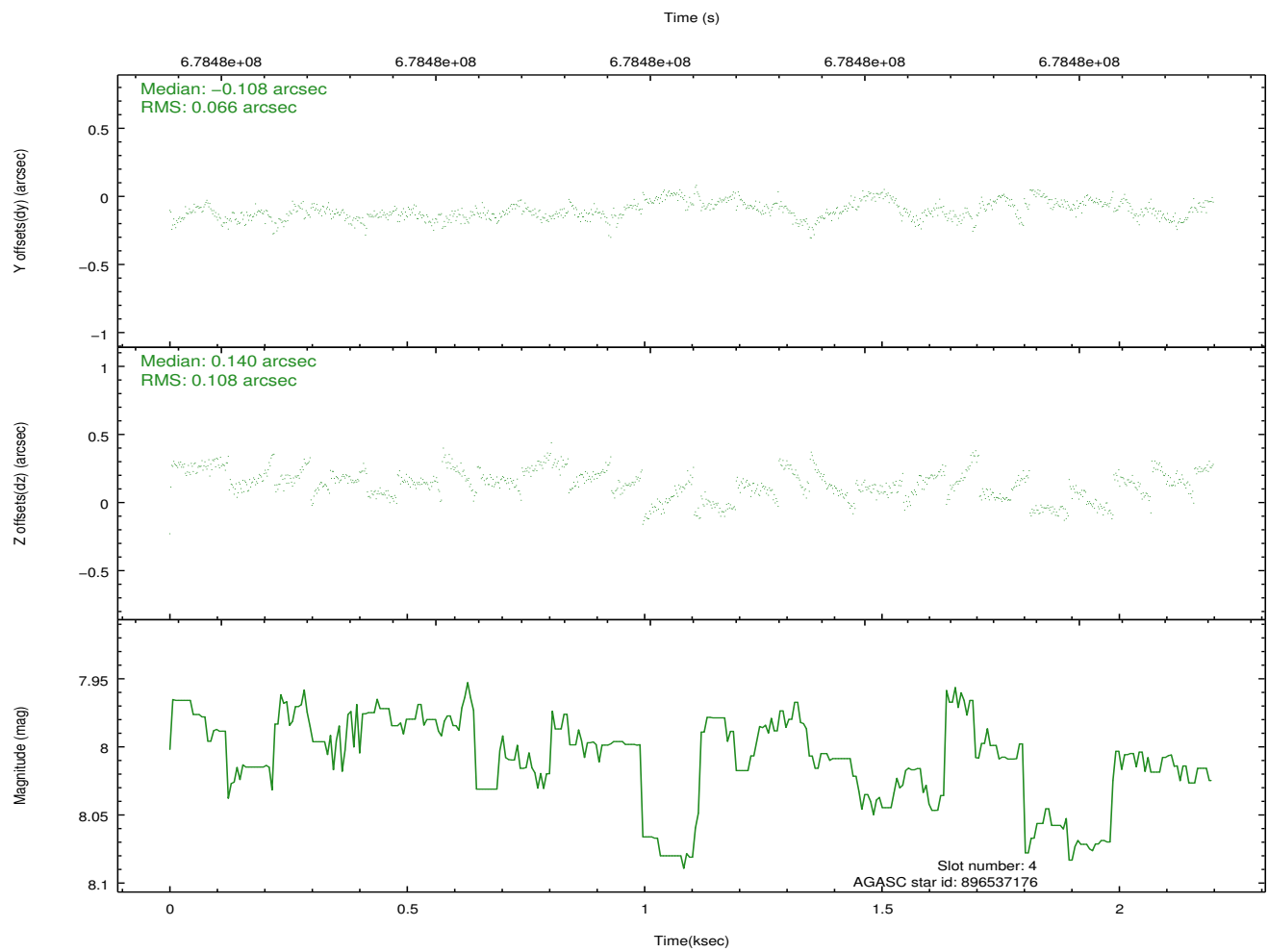
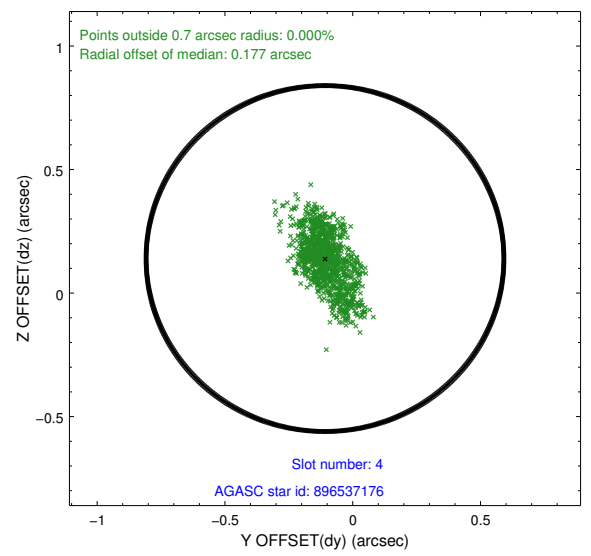
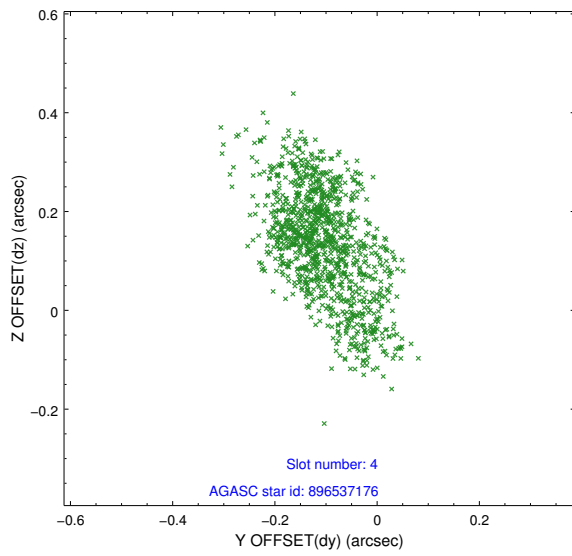
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2.4 Star Slots

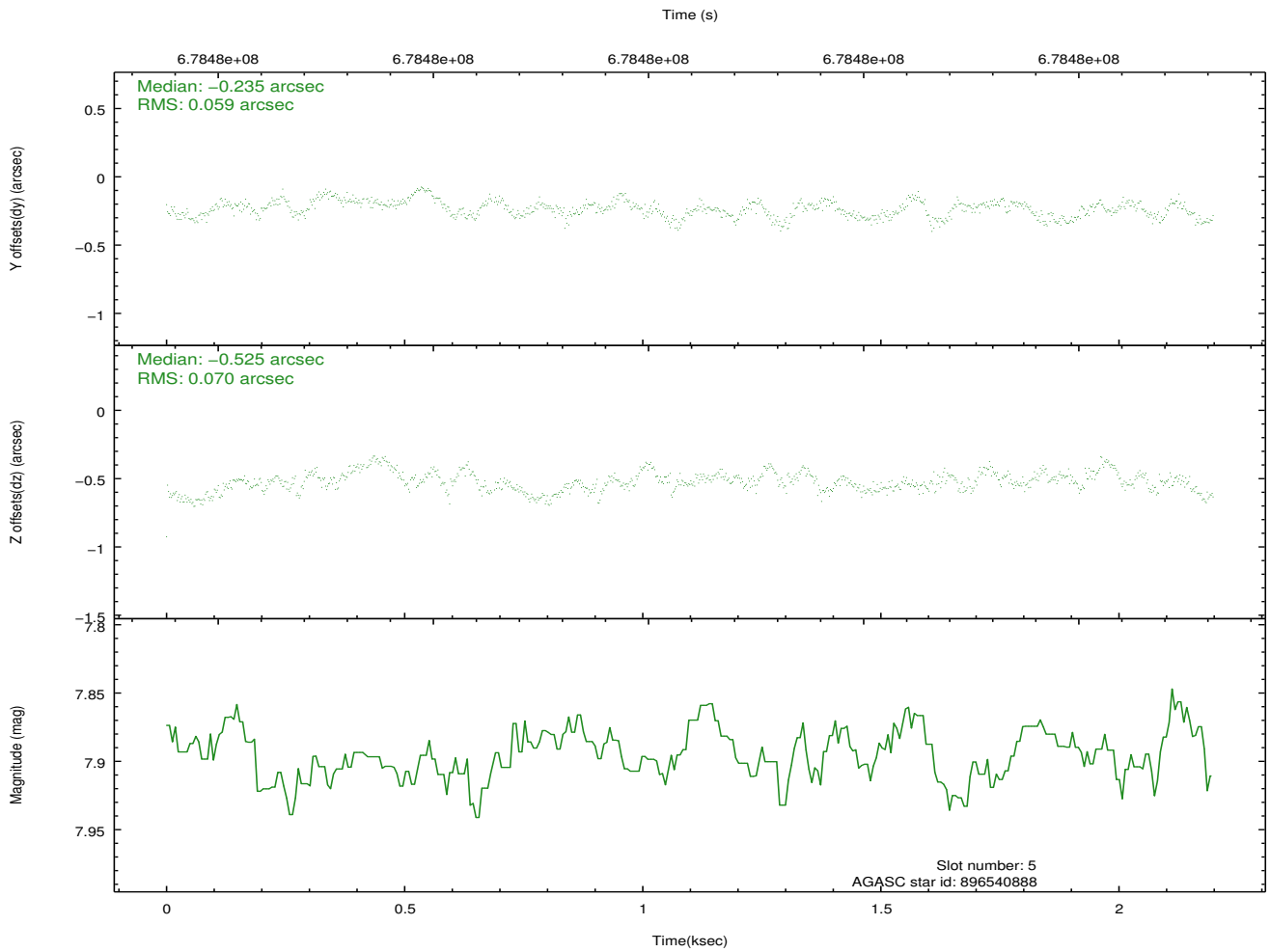
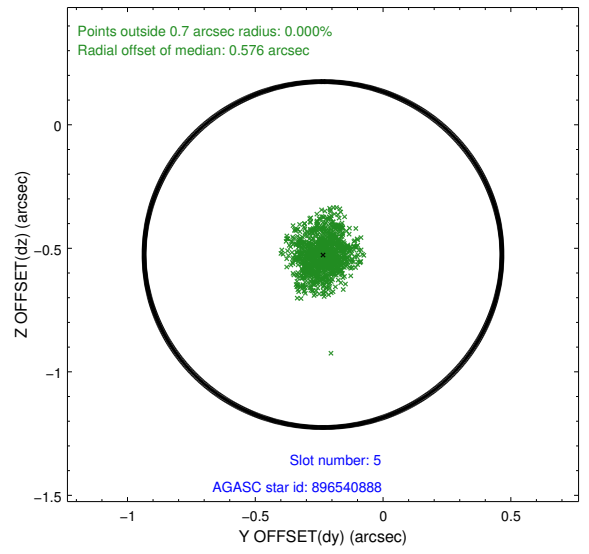
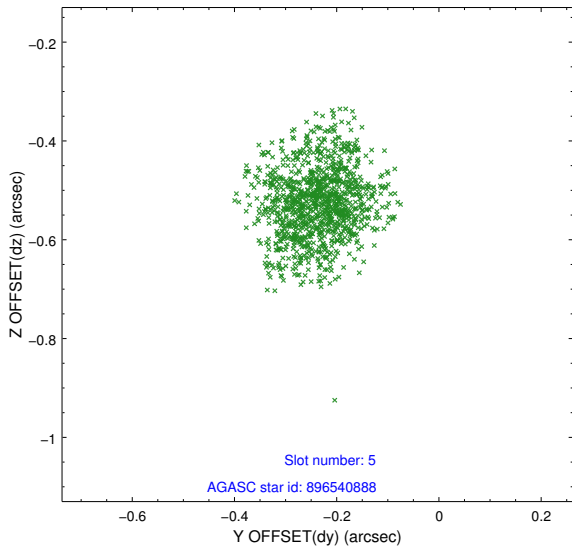
2.4.1 Slot 3



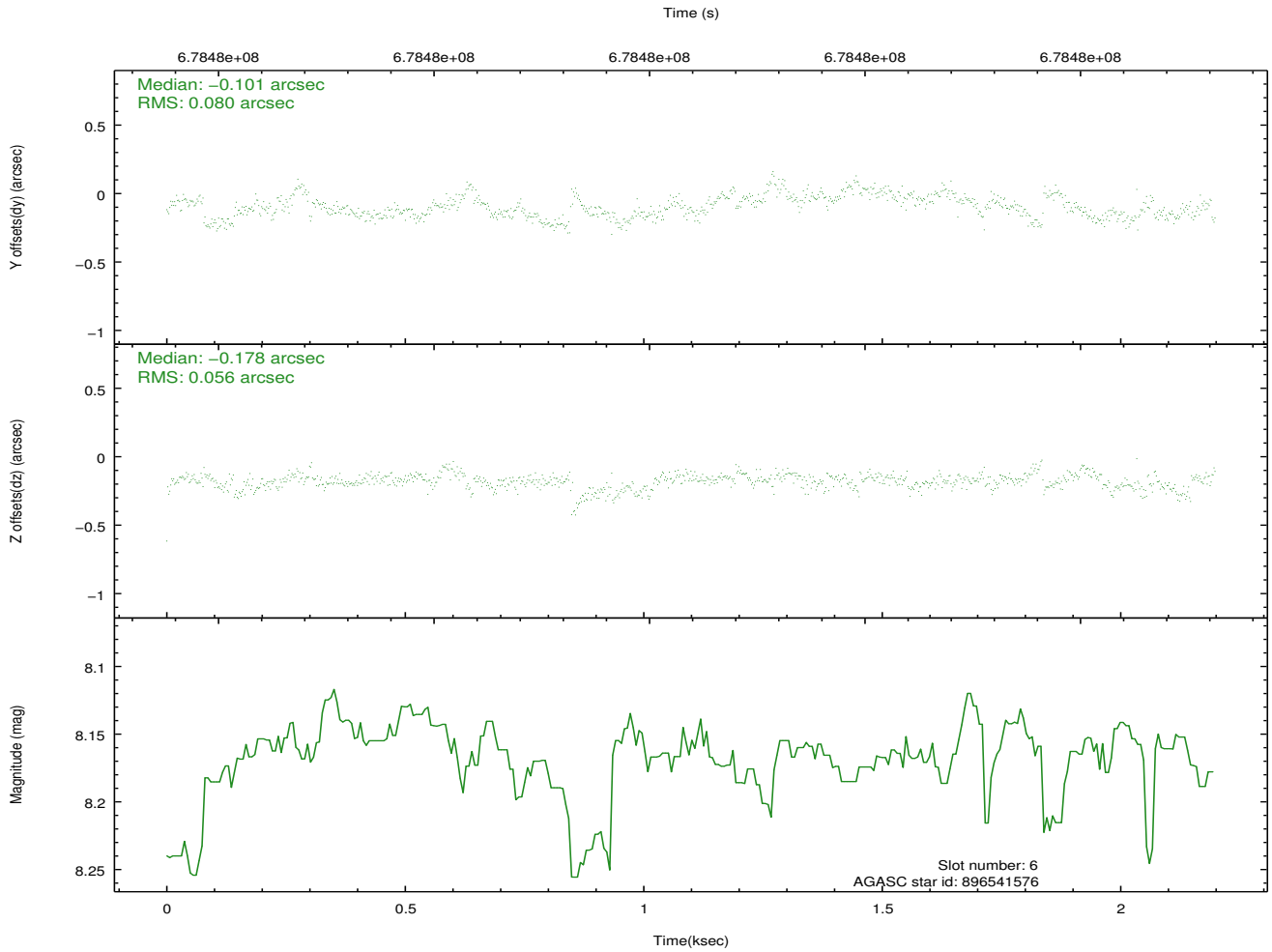
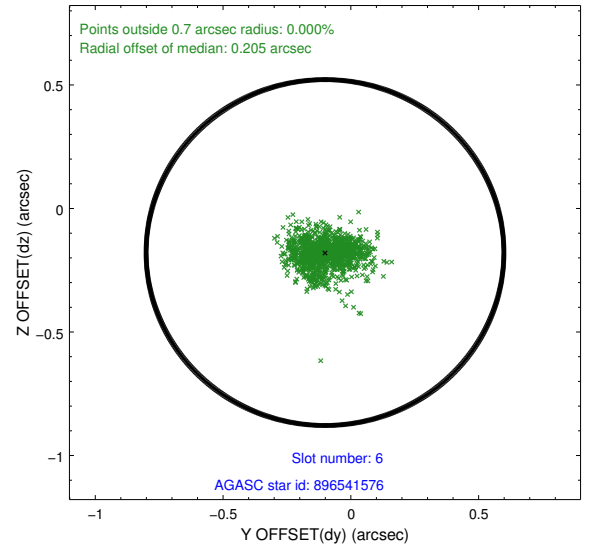
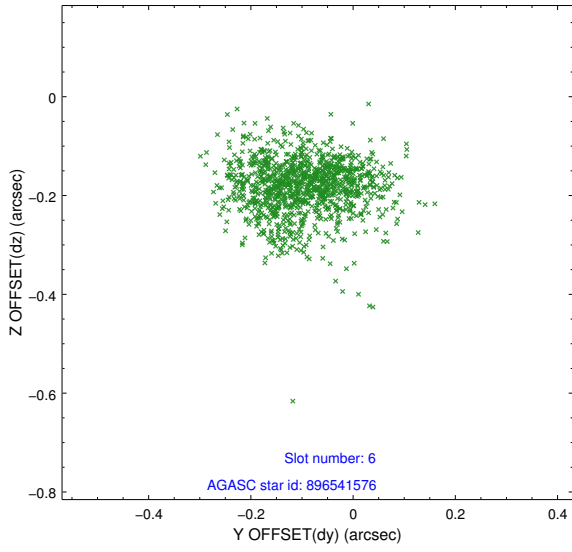
2.4.2 Slot 4



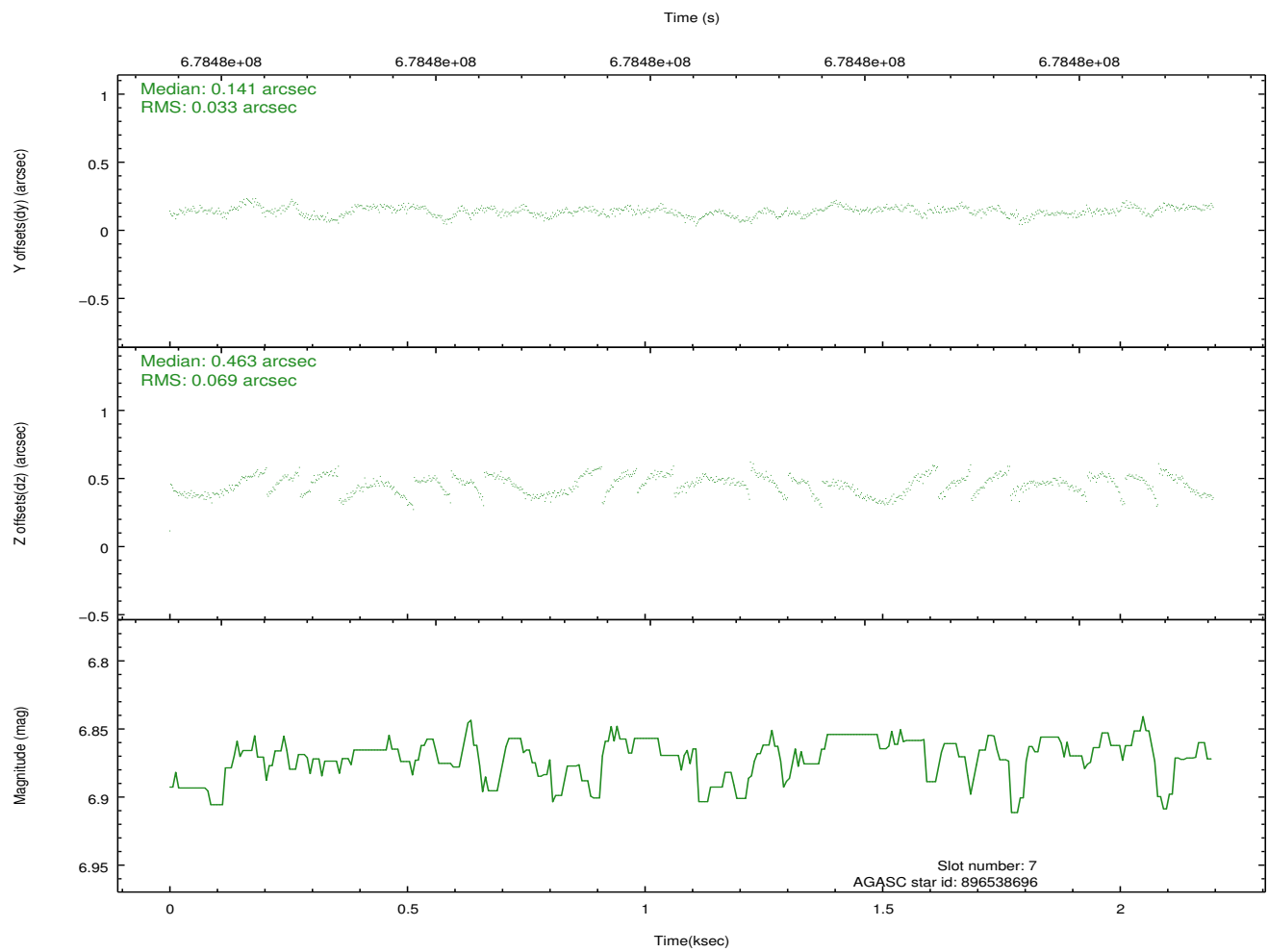
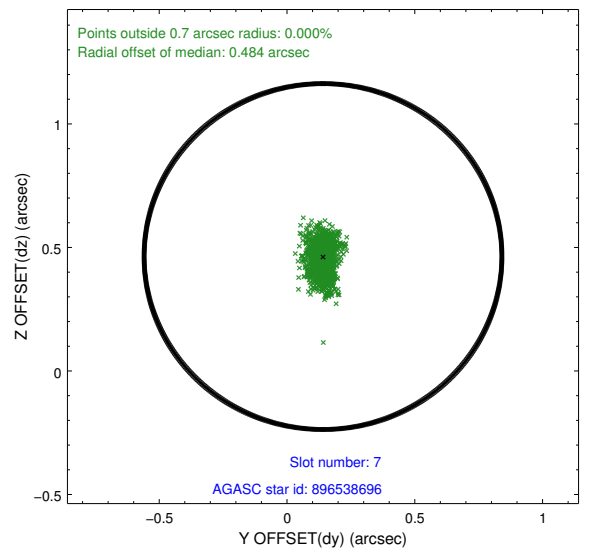
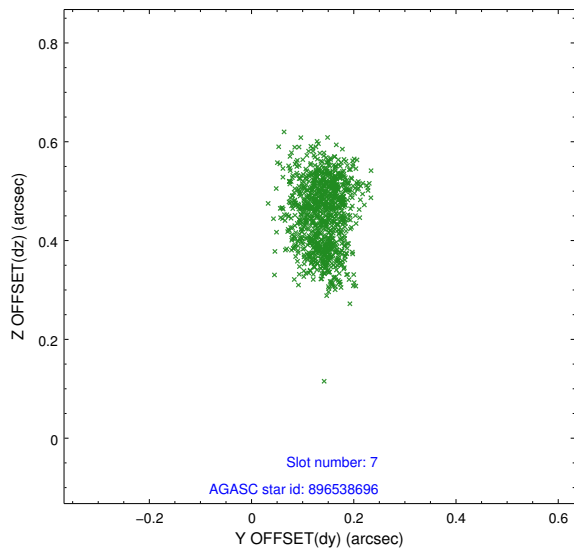
2.4.3 Slot 5



2.4.4 Slot 6

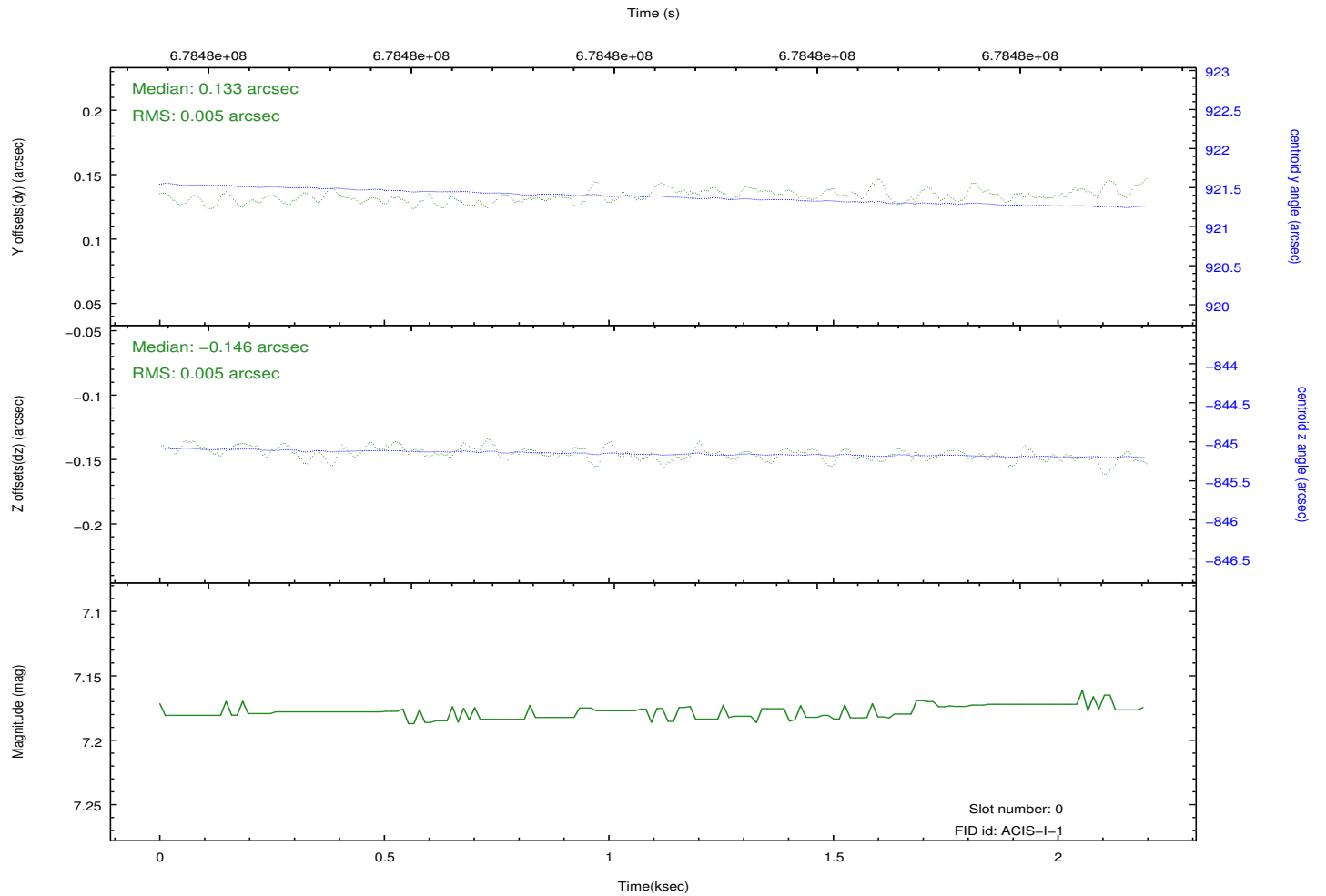
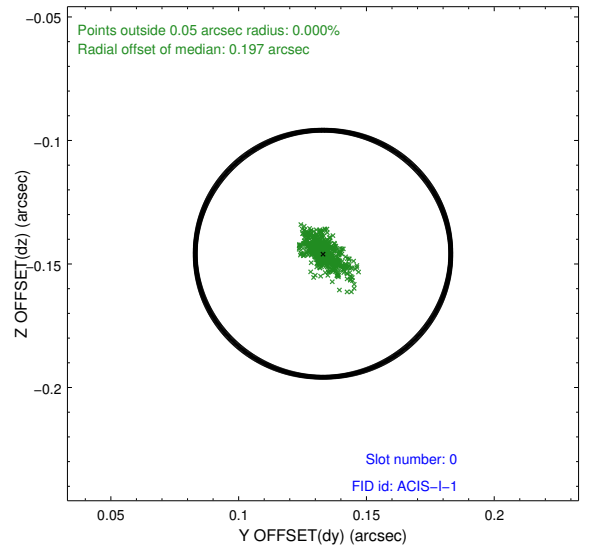
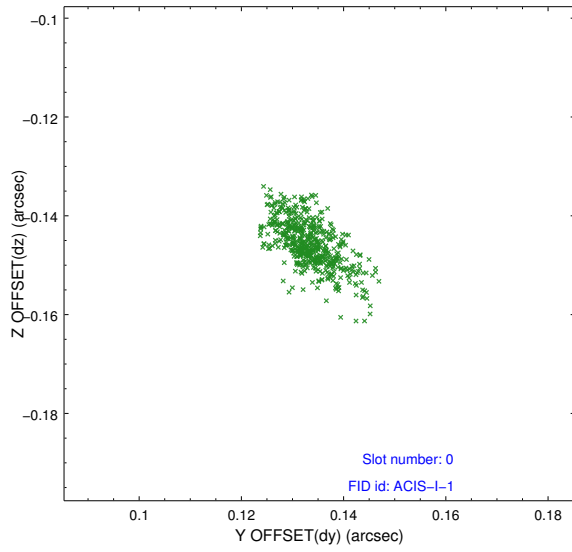


2.4.5 Slot 7

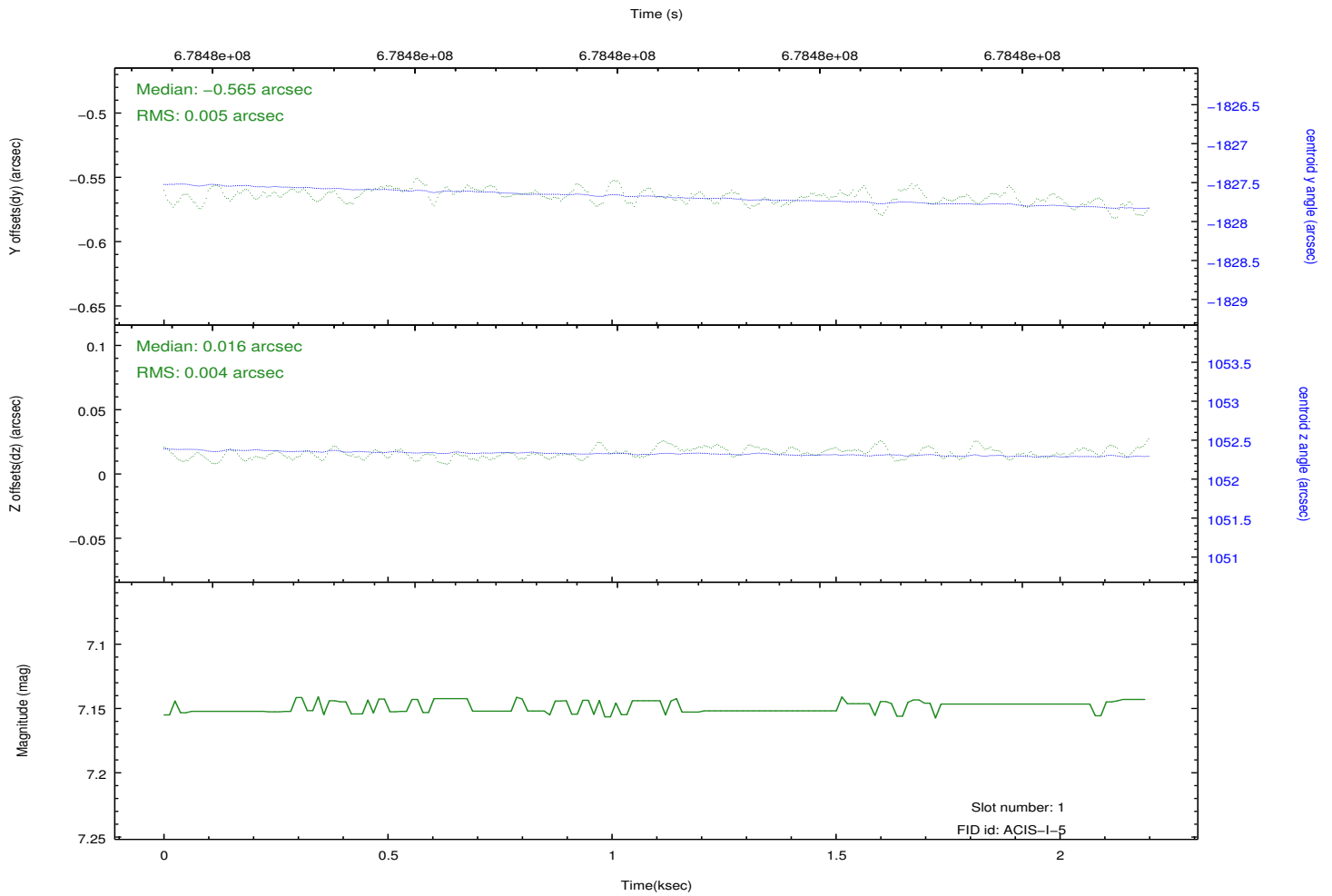
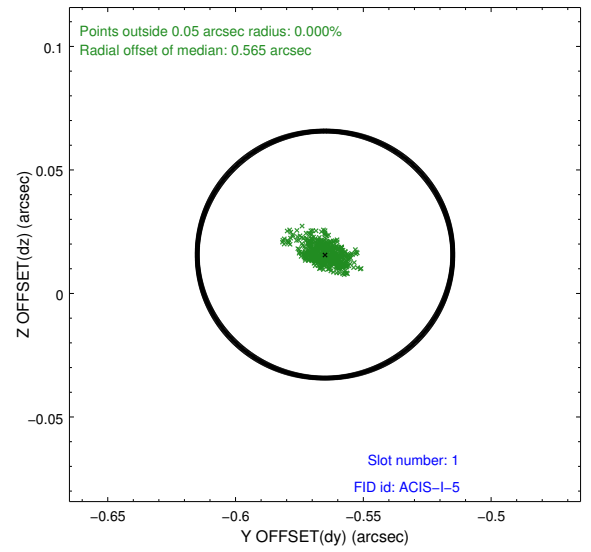
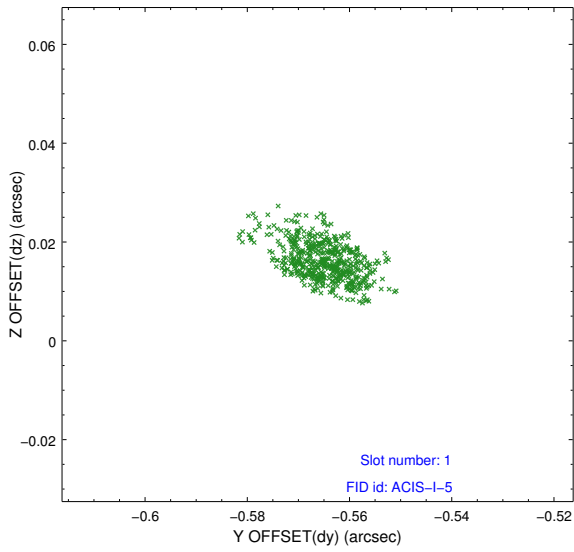


2.5 FID Slots

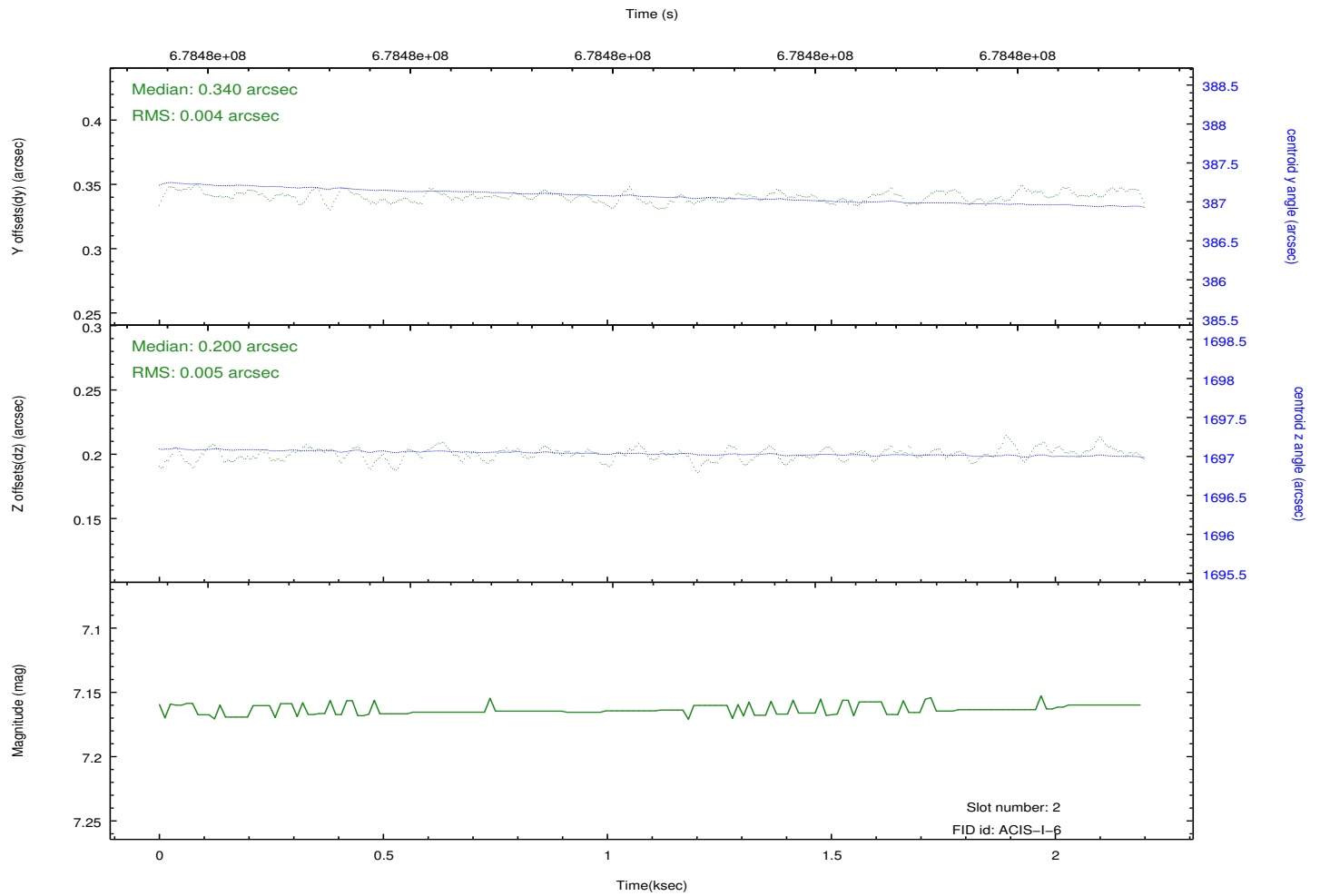
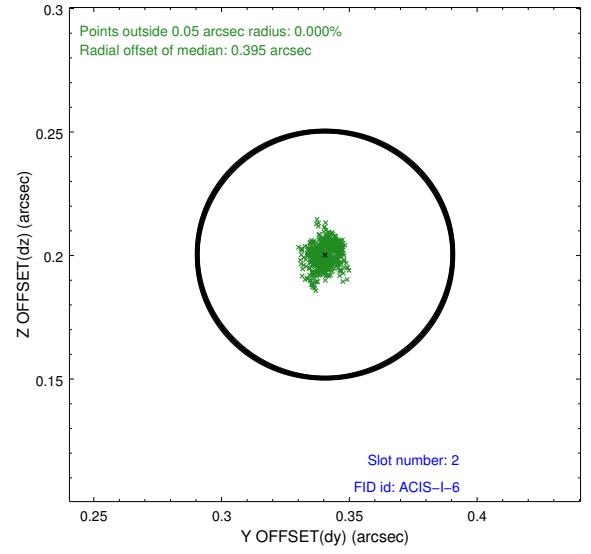
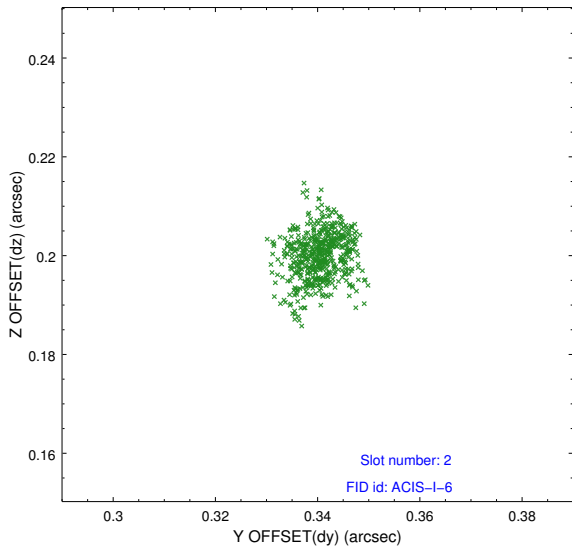
2.5.1 Slot 0



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)	2019.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.906500014782

A.2 Comments