

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21585 - L2 Version 2
Chandra X-Ray Center

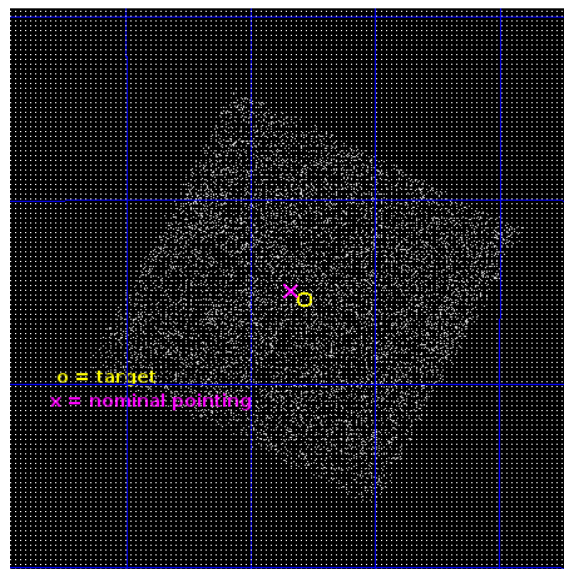
L2 Processing Date : Jul 8 2019

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1 Front

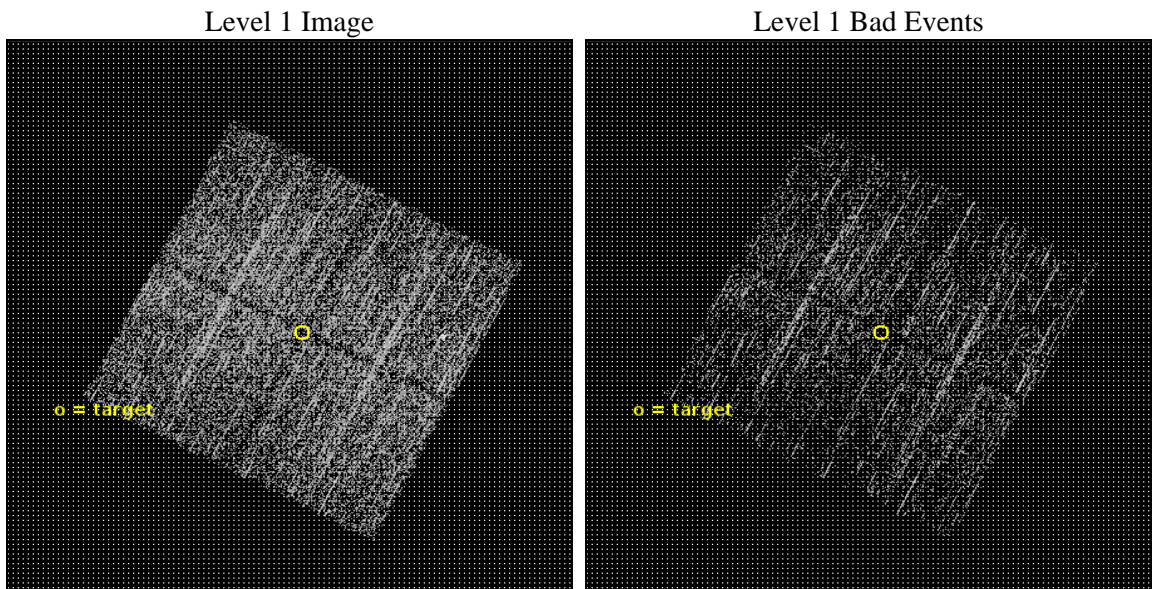
seq_num	300417	Sequence number
obs_id	21585	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.69548	Observer's specified target RA [deg]
dec_targ	-29.757034	Observer's specified target Dec [deg]
ra_nom	266.70905848883	Nominal RA [deg]
dec_nom	-29.748870389871	Nominal Dec [deg]
roll_nom	297.21531235137	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1908.7514106035	Sum of GTIs [s]
livetime	1883.8121682216	Livetime [s]
ontime0	1908.7103706598	Sum of GTIs [s]
ontime1	1908.7514106035	Sum of GTIs [s]
ontime2	1905.6514204741	Sum of GTIs [s]
ontime3	1908.8334906101	Sum of GTIs [s]
l2events	6500	Number of level 2 events



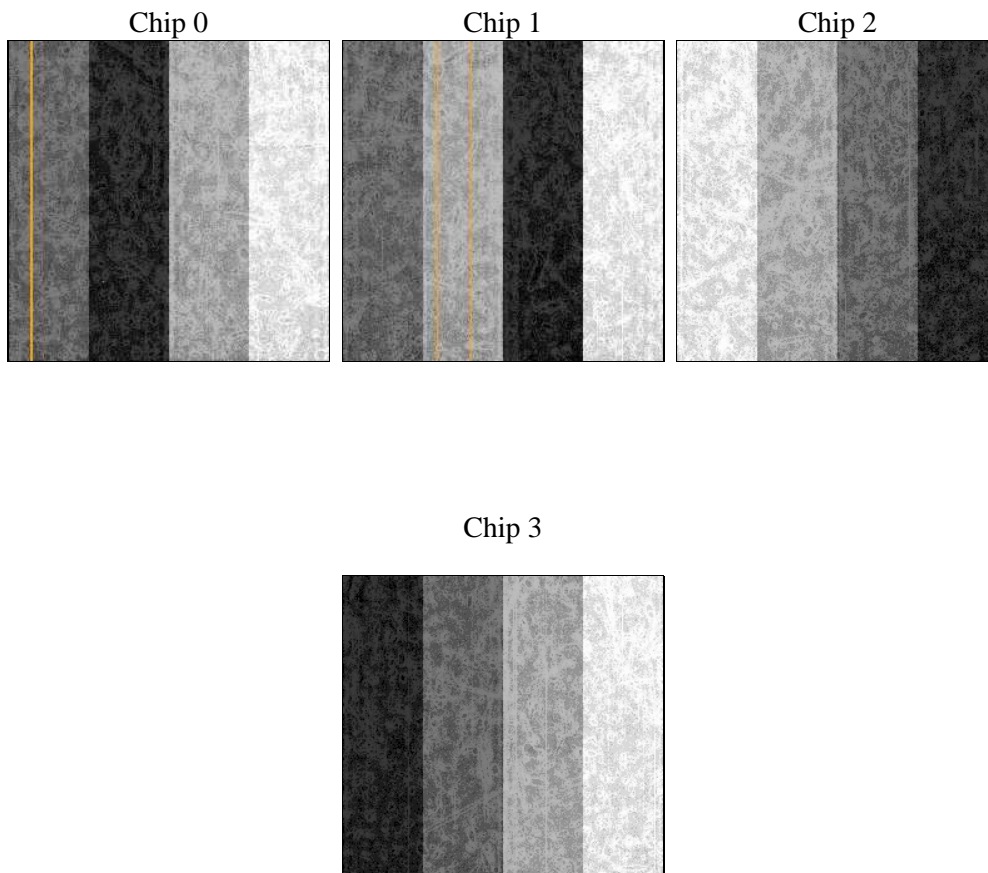
2 OBI

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	1908.7514106035	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.7103706598	Sum of GTIs [s]
date	2019-07-08T16:51:05	Date and time of file creation	ontime1	1908.7514106035	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1905.6514204741	Sum of GTIs [s]
			ontime3	1908.8334906101	Sum of GTIs [s]
			l1events	57785	Number of level 1 events

2.1.4 Events

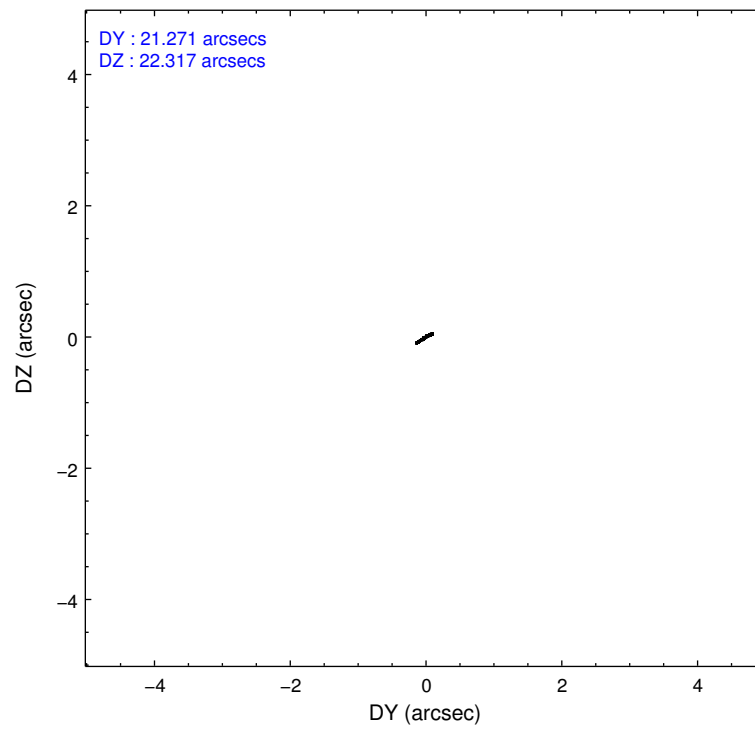
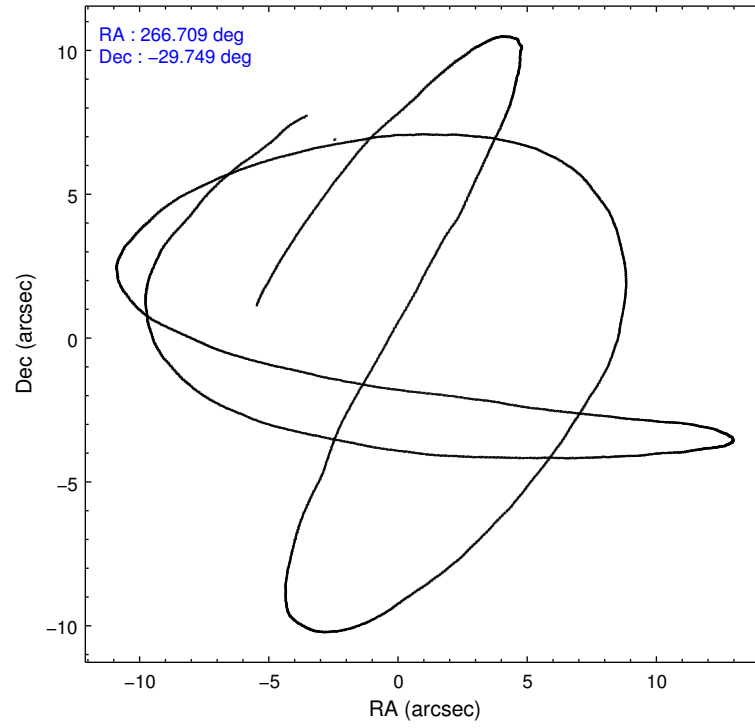
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13815	14989	13909	15072
rejected events	12003	12562	12109	13206
rejected %	86%	83%	87%	87%

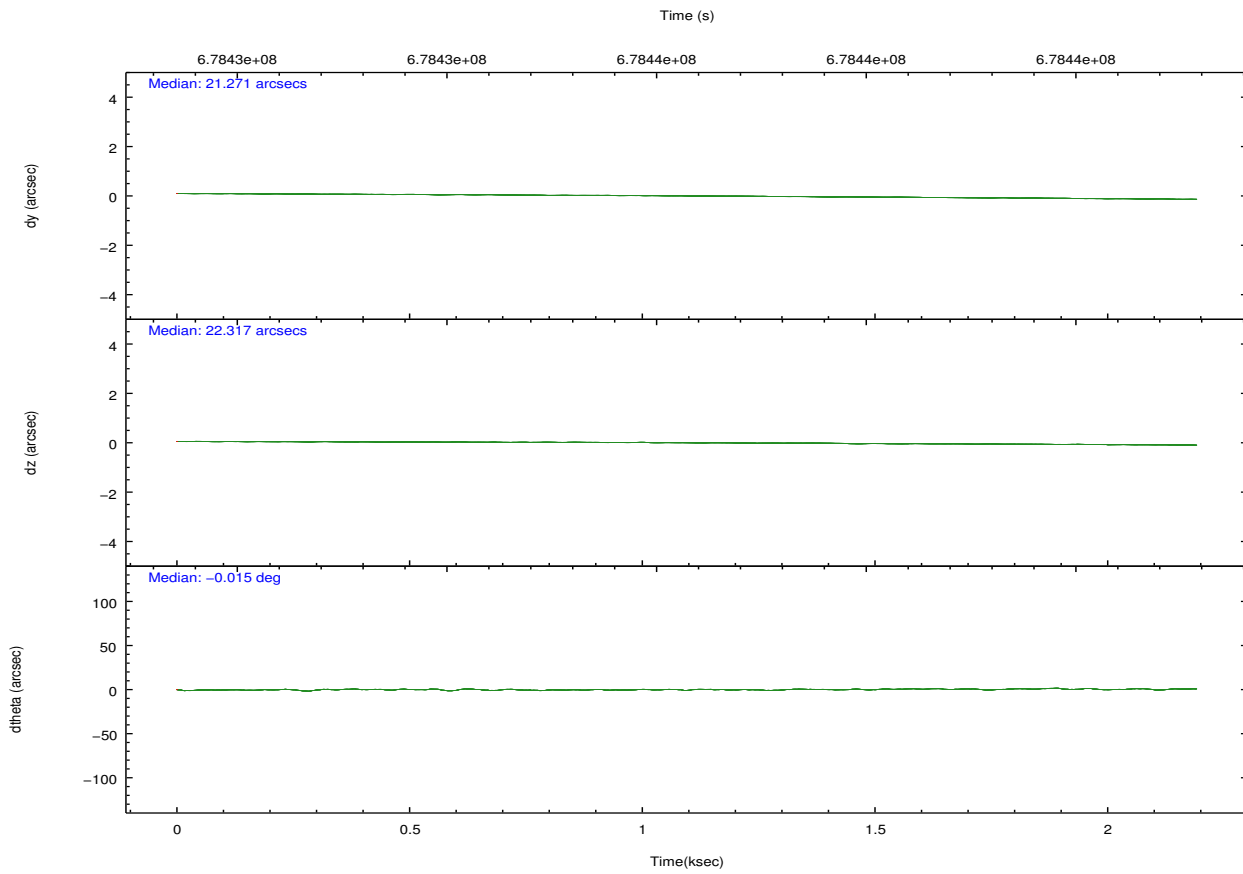
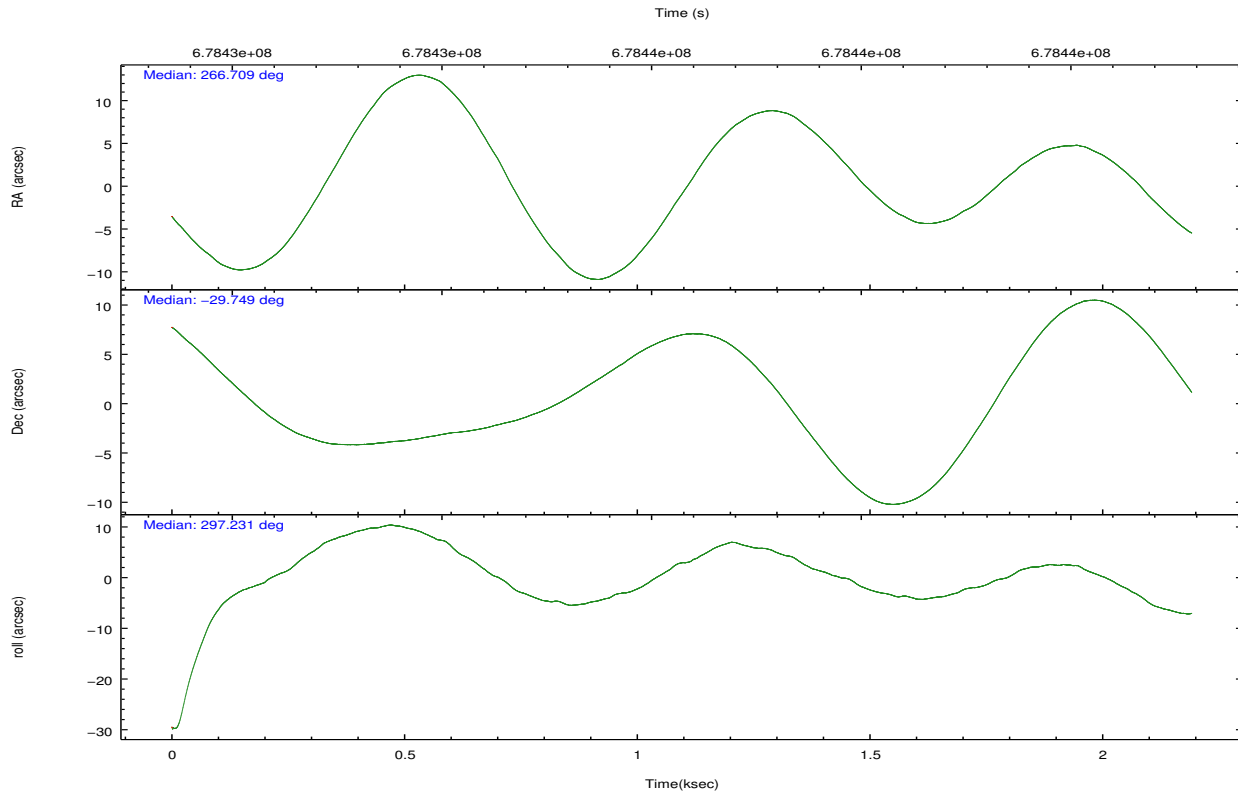
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	691	1134	744	768
	5%	7%	5%	5%
grade 1 events	13	5	10	7
	0%	0%	0%	0%
grade 2 events	423	524	451	358
	3%	3%	3%	2%
grade 3 events	198	167	143	173
	1%	1%	1%	1%
grade 4 events	160	173	171	184
	1%	1%	1%	1%
grade 5 events	680	668	648	720
	4%	4%	4%	4%
grade 6 events	343	435	298	388
	2%	2%	2%	2%
grade 7 events	11307	11883	11444	12474
	81%	79%	82%	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	266.682330	266.7090584888328	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.734157	-29.74887038987134	Alternating exposures requested	N	N
[deg] Pointing Roll	296.993477	297.2153123513742	[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)	678434187.184000	678433811.567			
Observation start date	2019-07-02T05:55:18	2019-07-02T05:50:11			
[s] Observation end time (MET)	678436187.184000	678436321.27965			
Observation end date	2019-07-02T06:28:38	2019-07-02T06:32:01			
Read mode	TIMED	TIMED			

2.3 Aspect





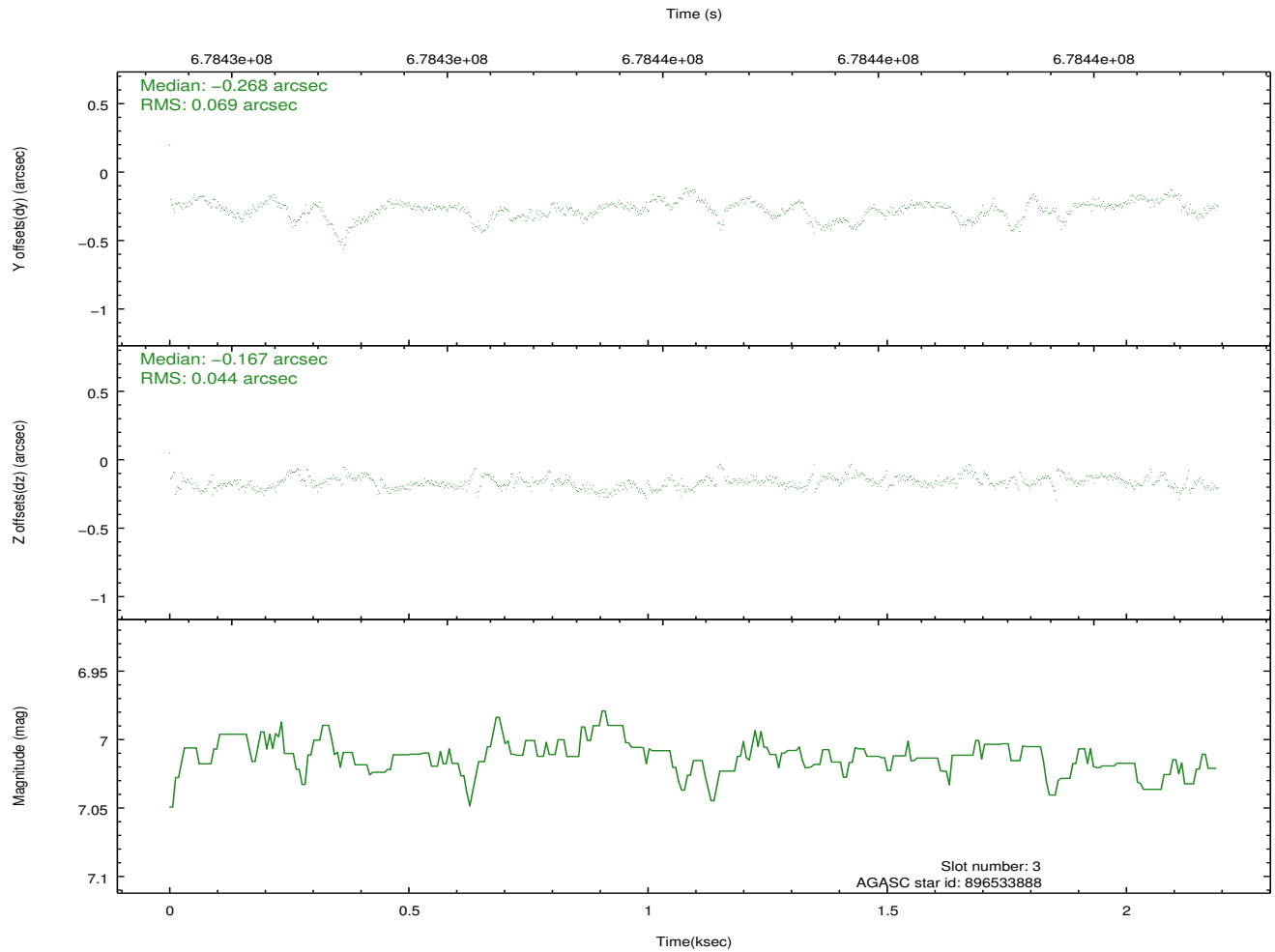
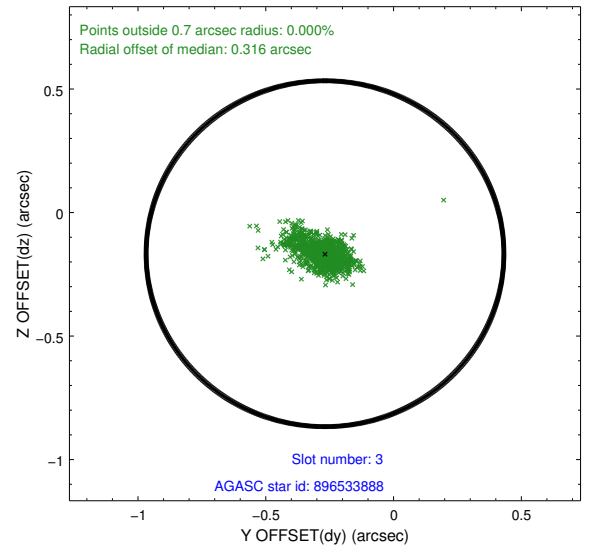
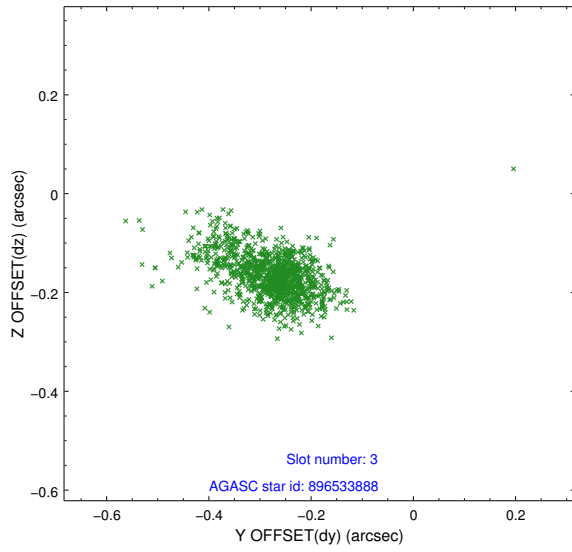
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.17	535	1.000	0.270	-0.248	0.007	0.012	0.000000	0.000000	918.48	-846
1	FID		ACIS-I-3	7.44	535	1.000	-0.084	0.180	0.008	0.014	0.000000	0.000000	37.29	-980
2	FID		ACIS-I-5	7.13	535	1.000	-0.276	0.141	0.007	0.013	0.000000	0.000000	-1830.60	1049
3	GUIDE	used	896533888	7.01	1070	1.000	-0.268	-0.167	0.077	0.153	266.666434	-29.392757	-1116.51	513
4	GUIDE	used	896537776	7.51	1069	1.000	0.081	-0.187	0.087	0.152	266.655684	-29.665673	-257.22	38
5	GUIDE	used	896541360	7.70	1070	1.000	-0.080	-0.088	0.095	0.163	266.684478	-29.453744	-895.48	464
6	GUIDE	used	966926496	8.13	1069	1.000	-0.245	-0.033	0.087	0.150	267.109389	-30.299474	2418.21	257
7	GUIDE	used	896540808	7.44	1069	1.000	0.513	0.479	0.070	0.108	265.985401	-29.308604	-2348.61	-1255

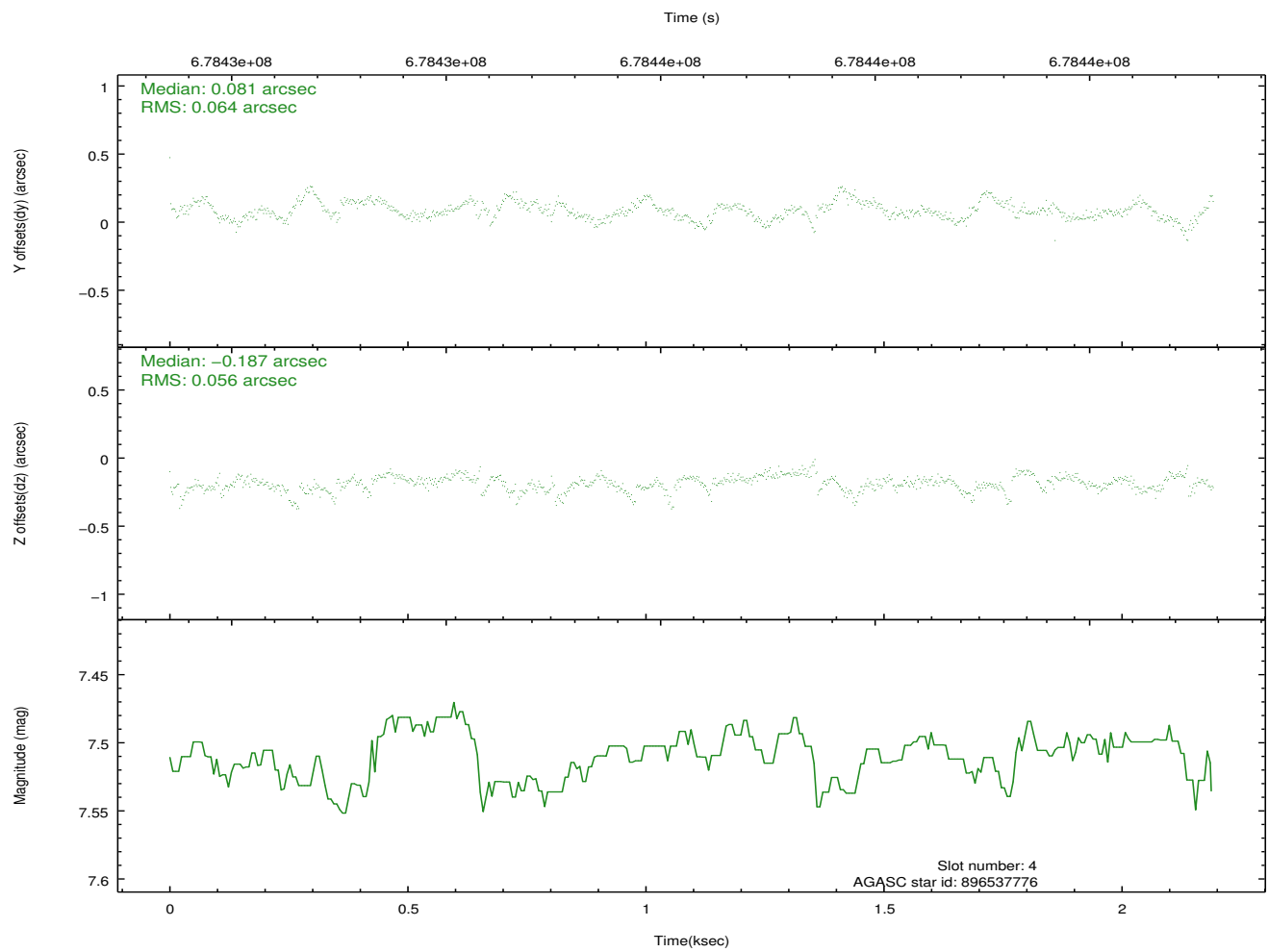
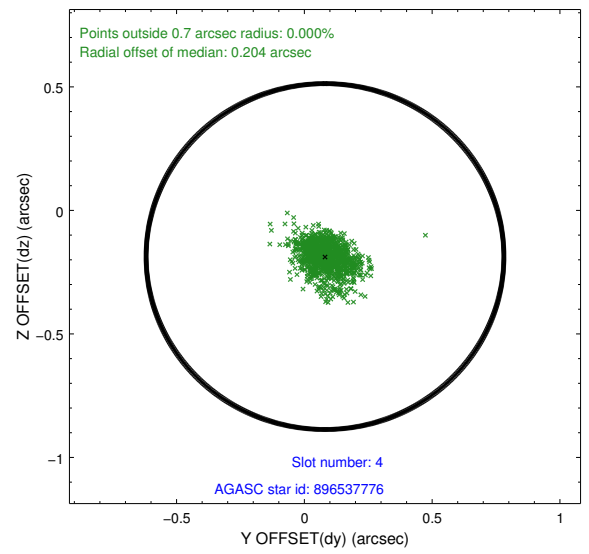
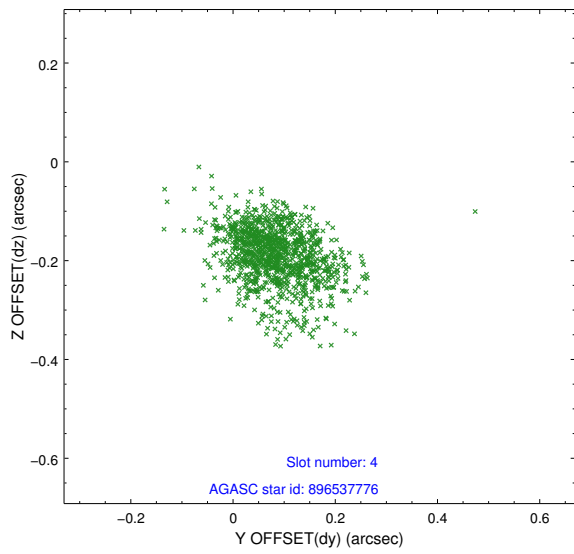
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2.4 Star Slots

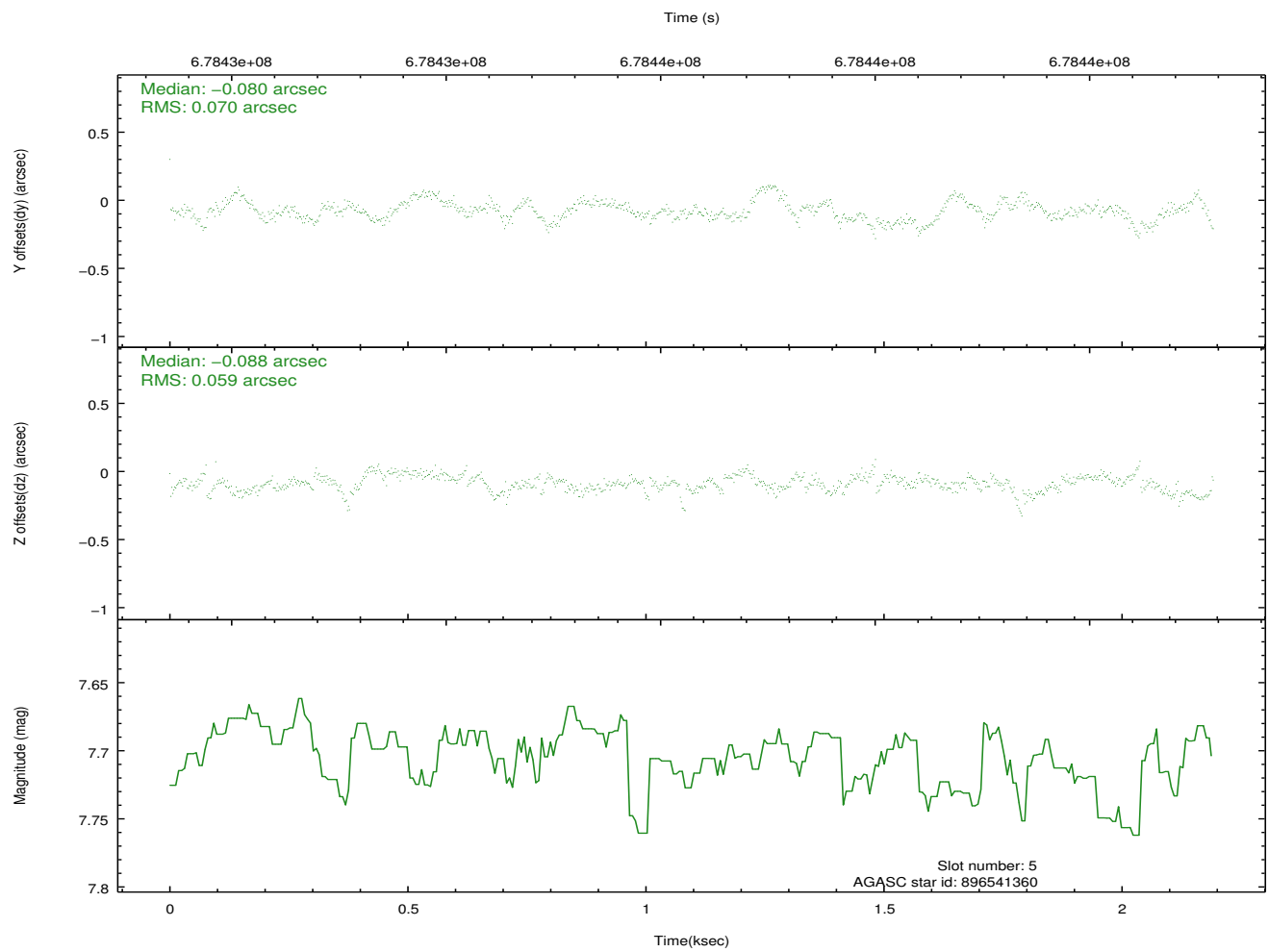
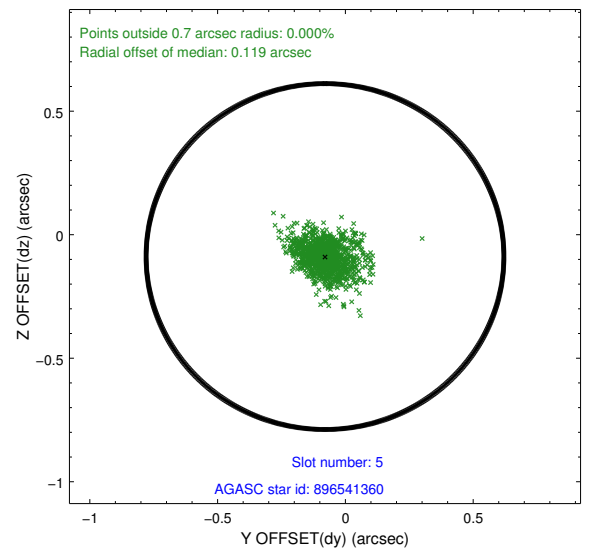
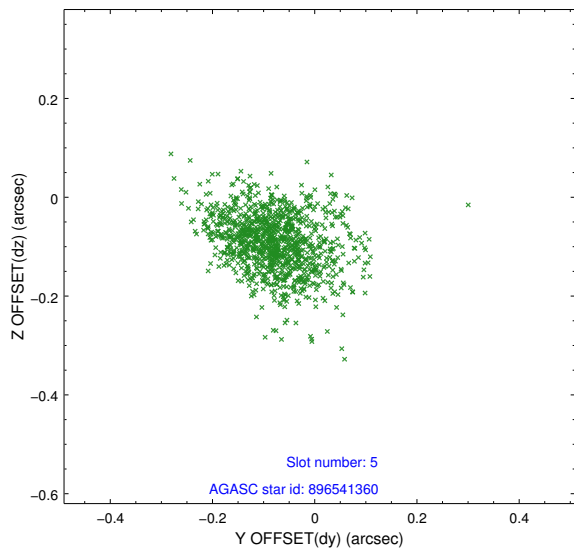
2.4.1 Slot 3



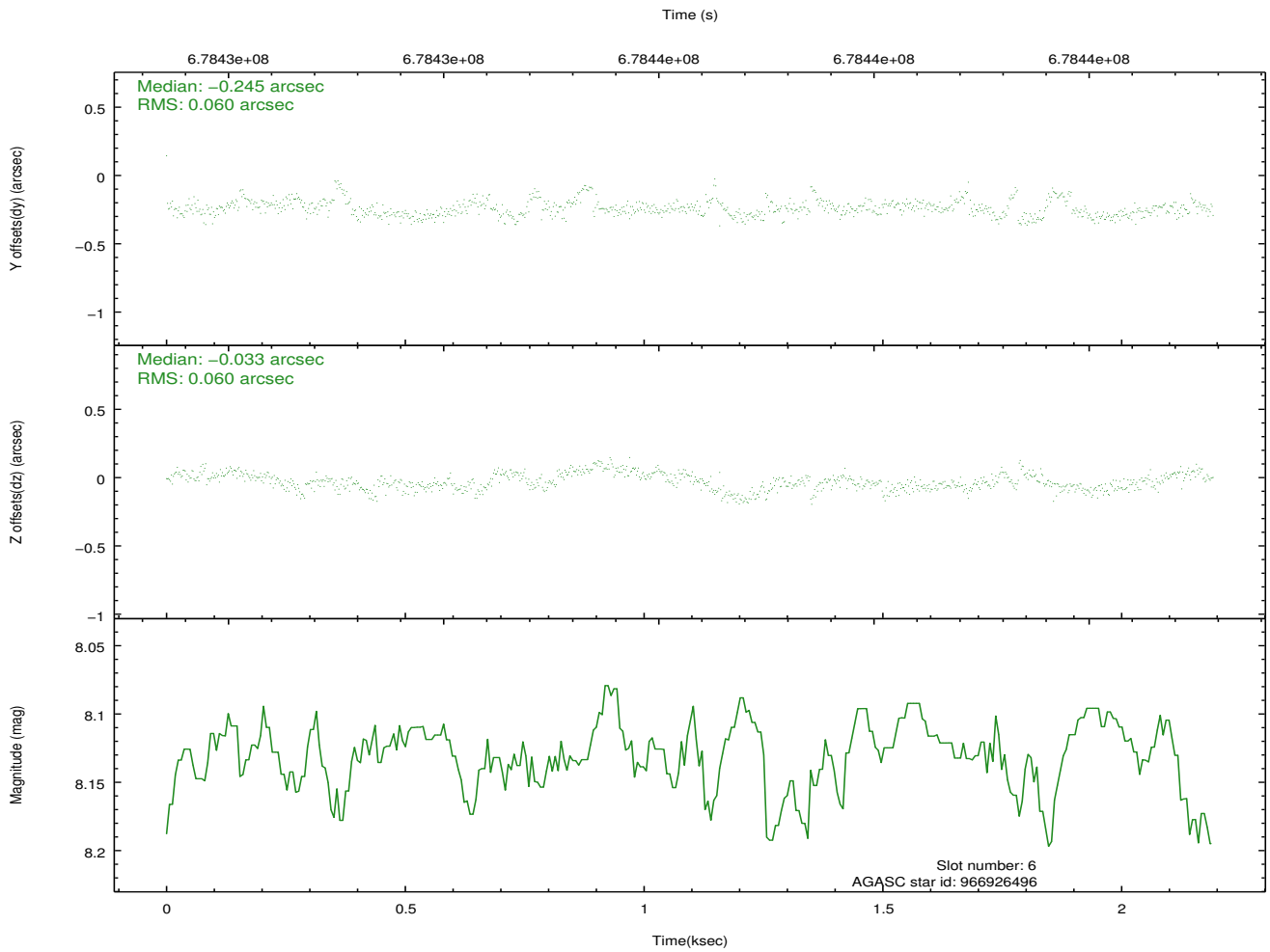
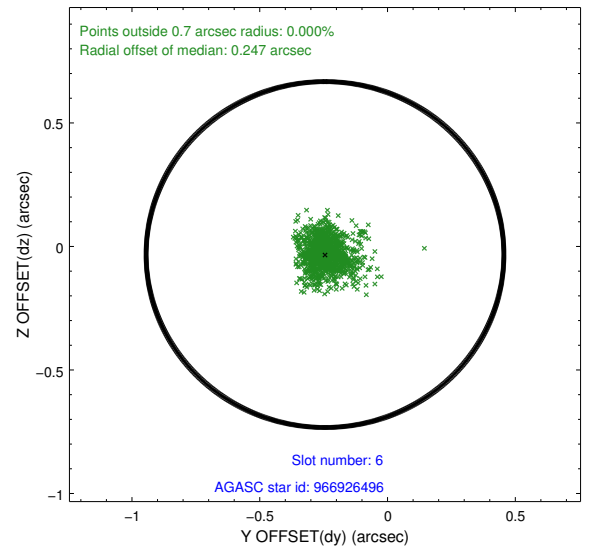
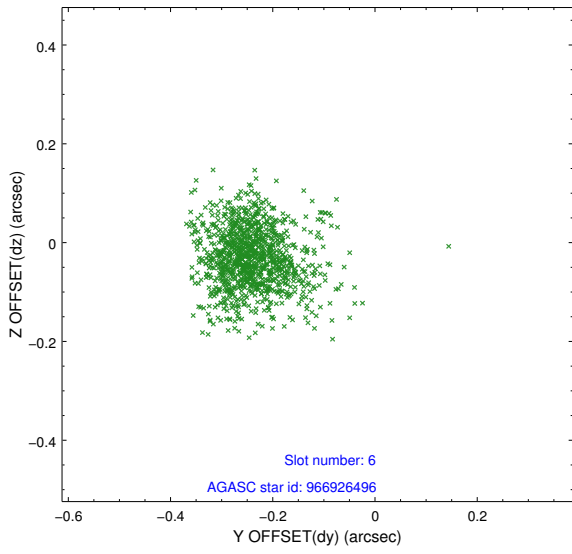
2.4.2 Slot 4



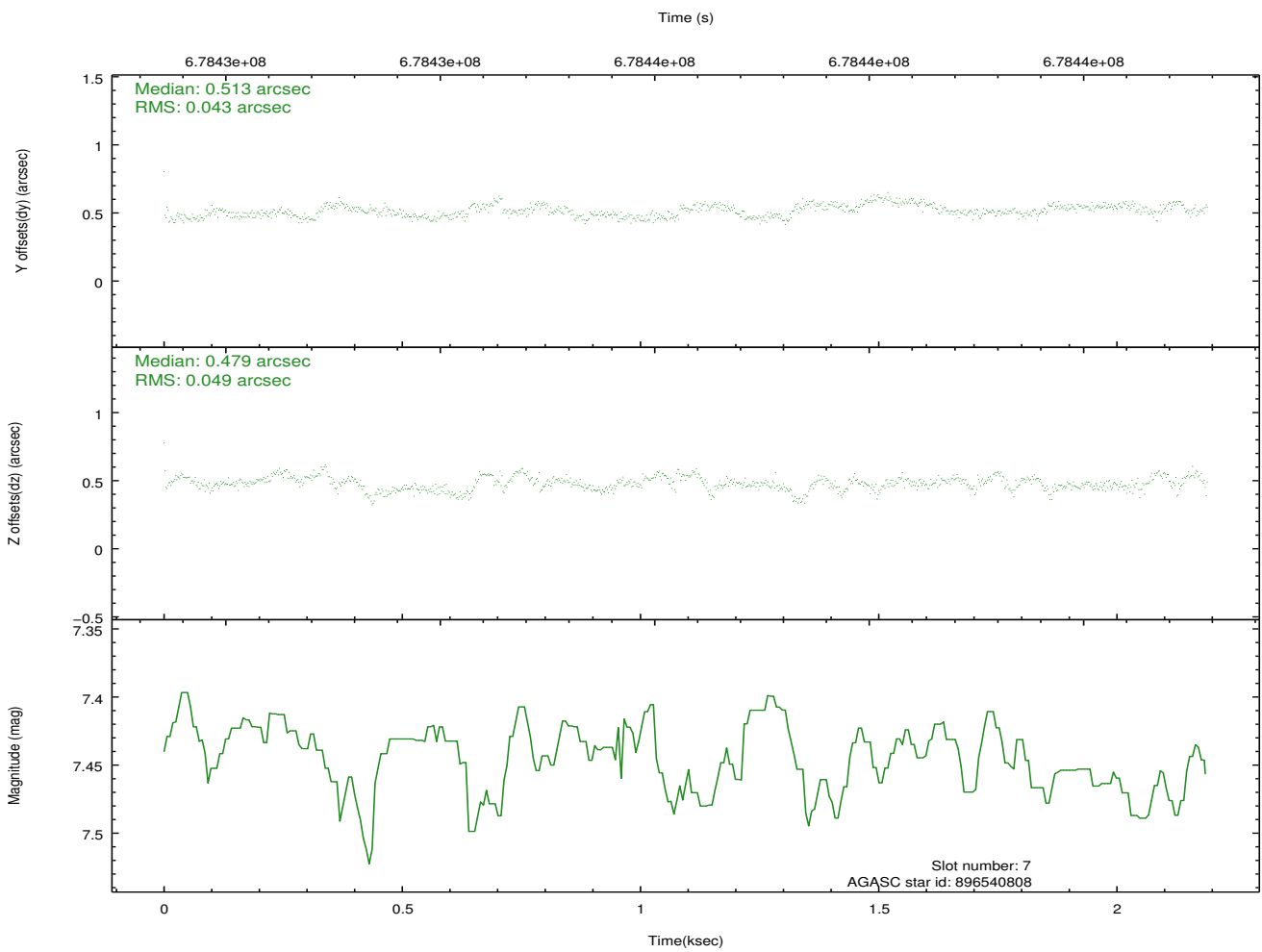
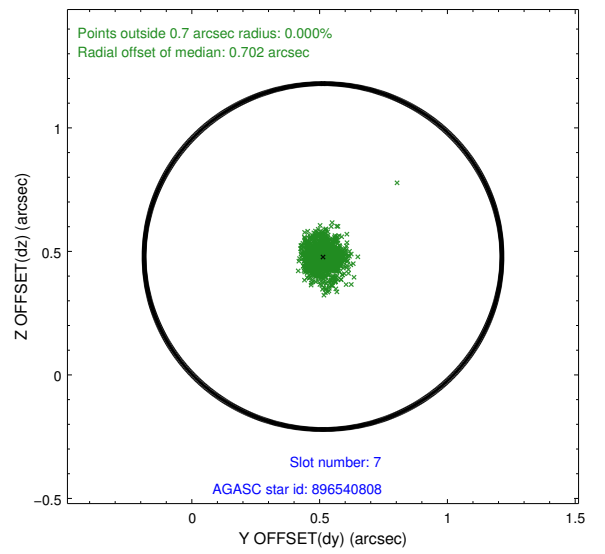
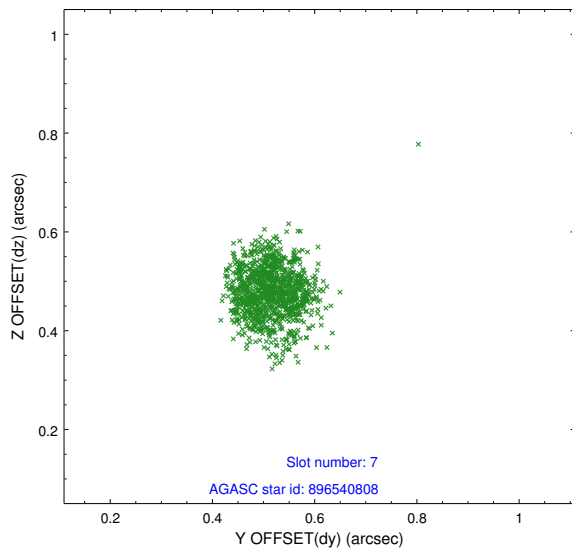
2.4.3 Slot 5



2.4.4 Slot 6

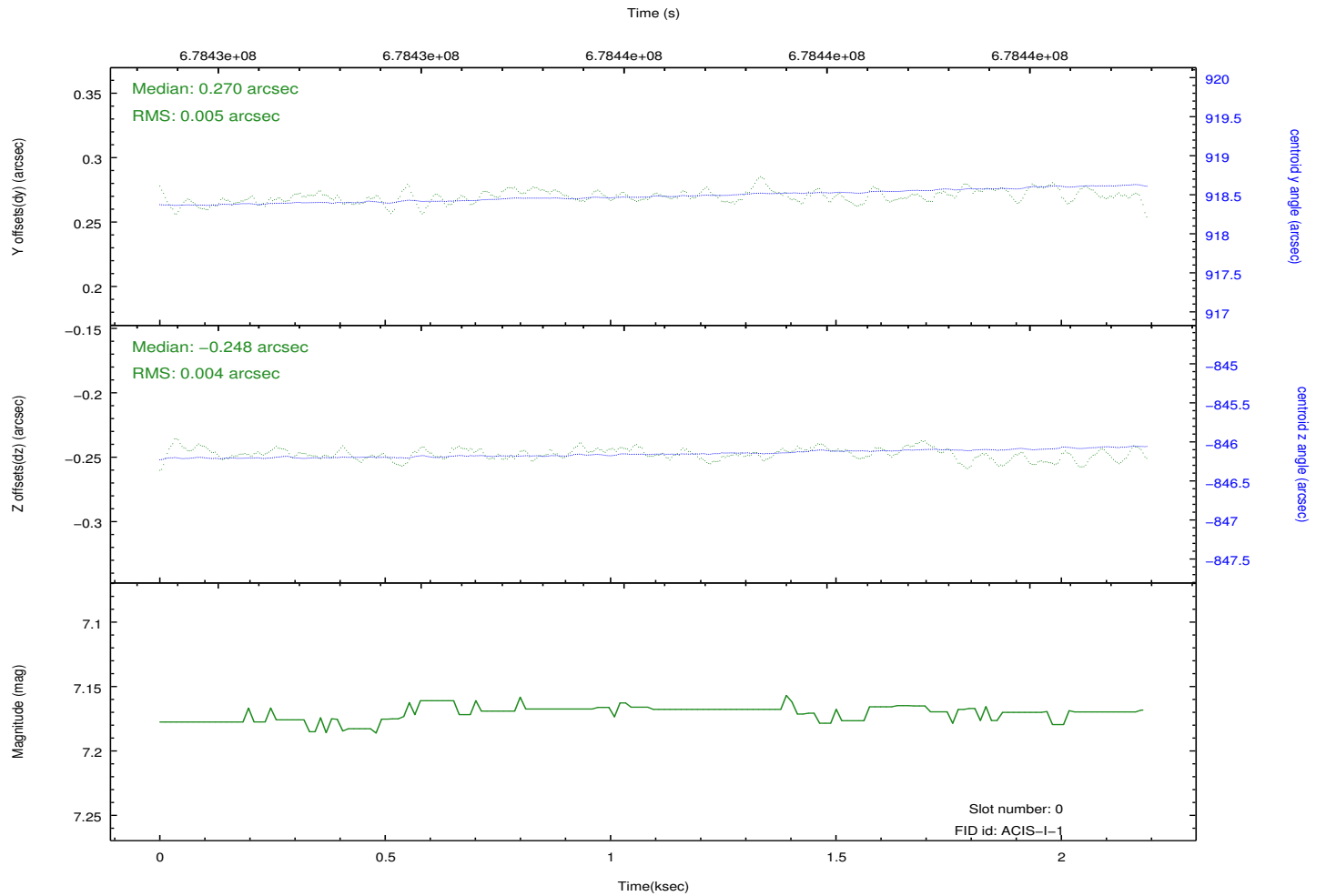
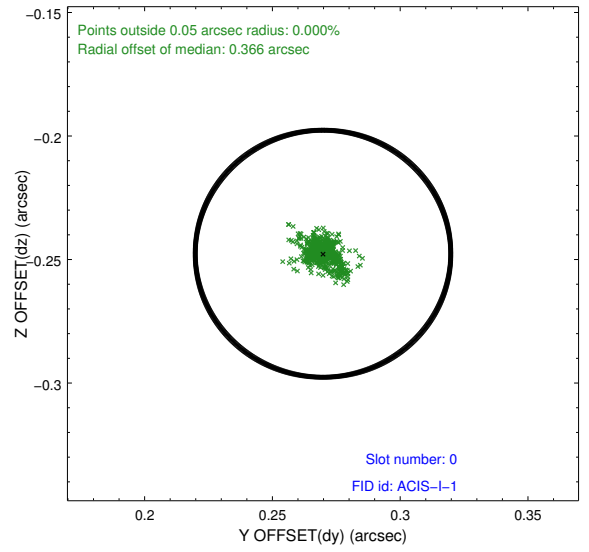
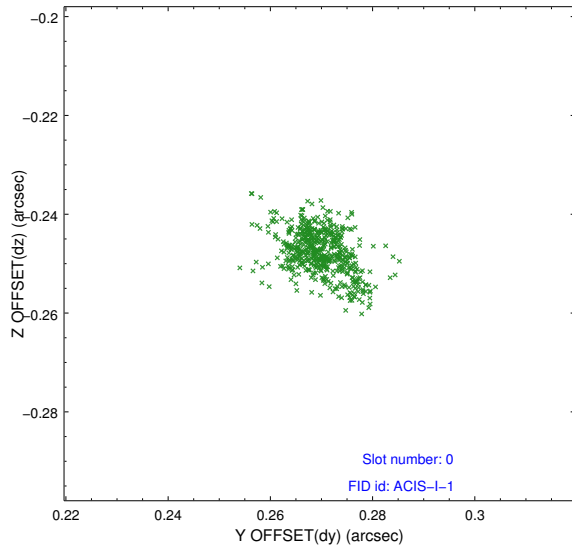


2.4.5 Slot 7

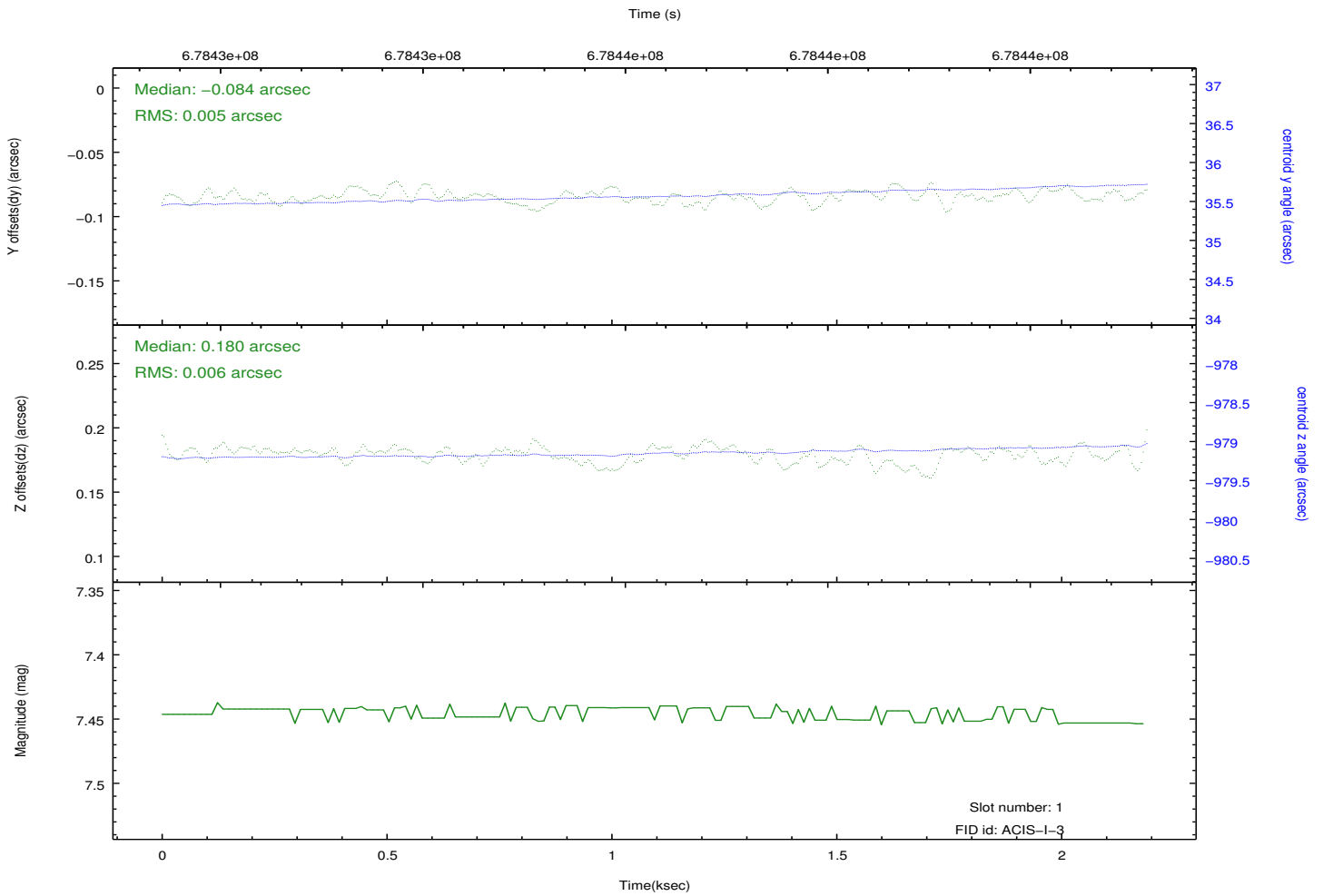
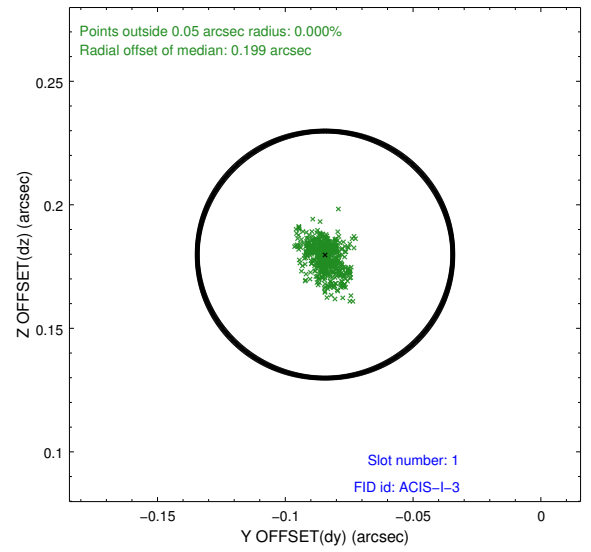
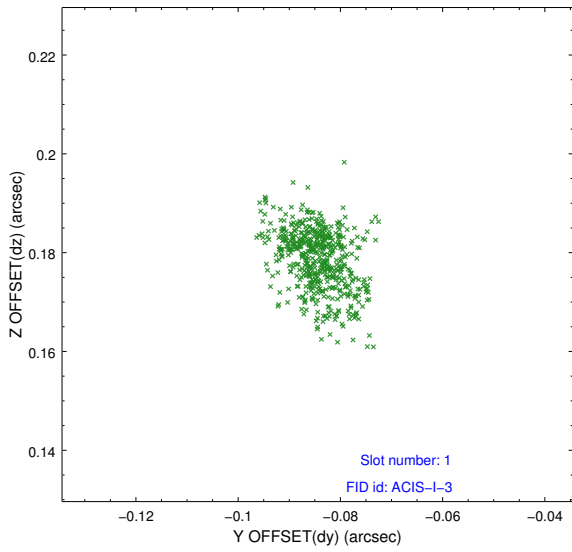


2.5 FID Slots

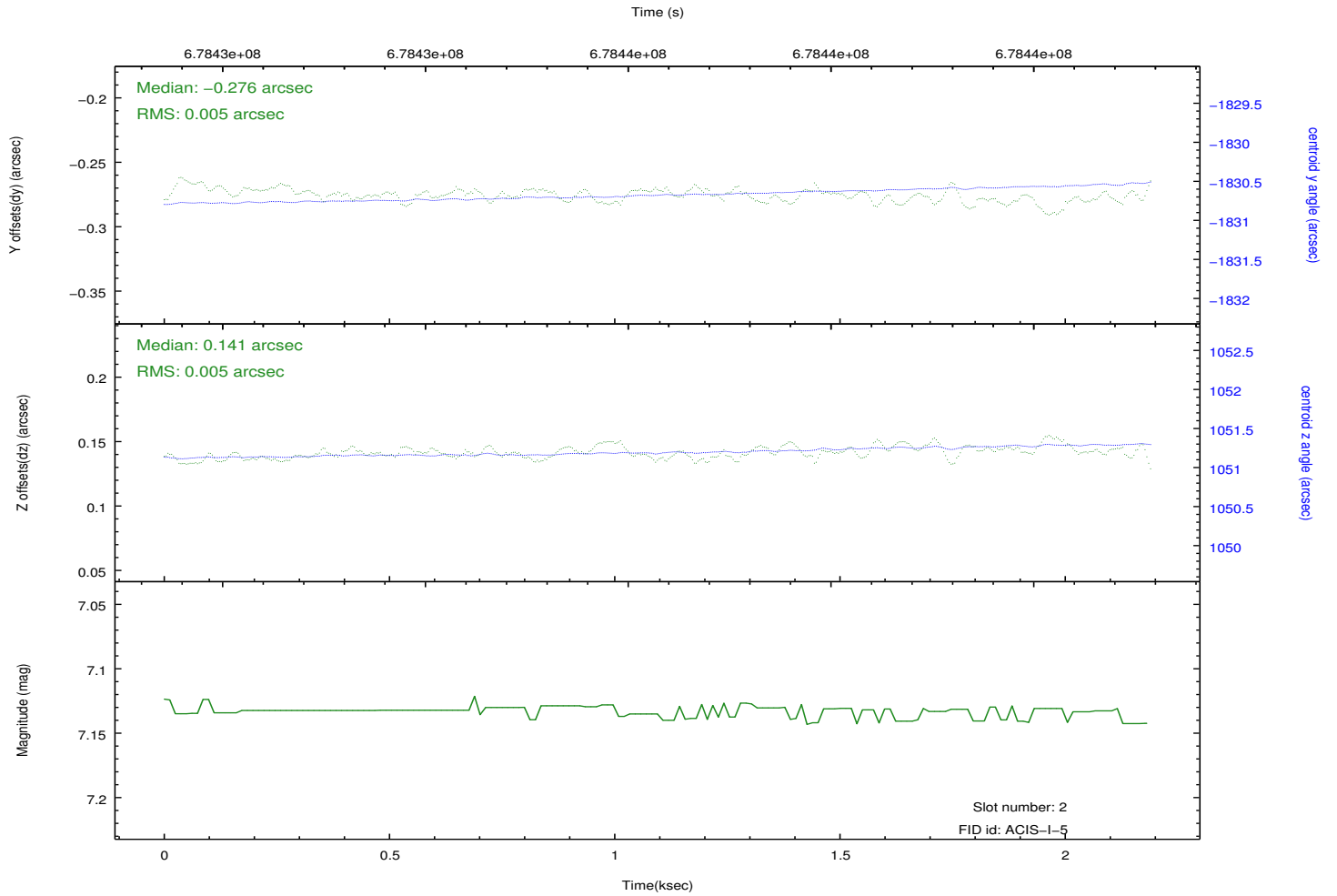
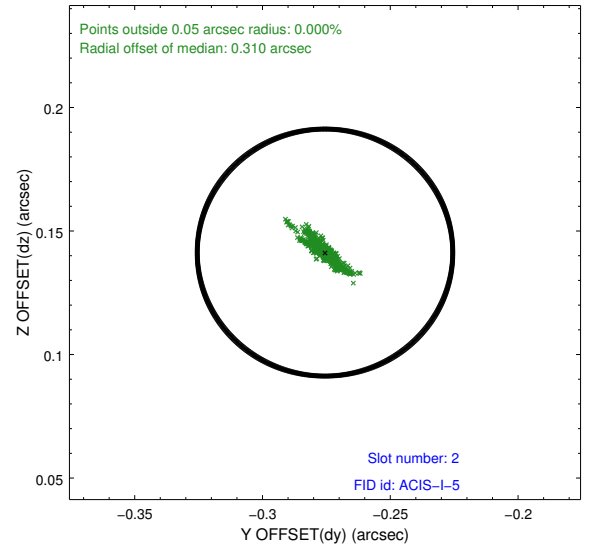
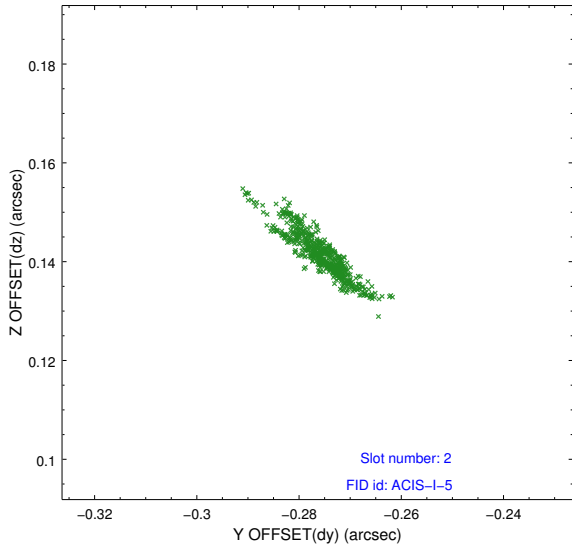
2.5.1 Slot 0



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)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9087514106035

A.2 Comments