

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20549 - L2 Version 2
Chandra X-Ray Center

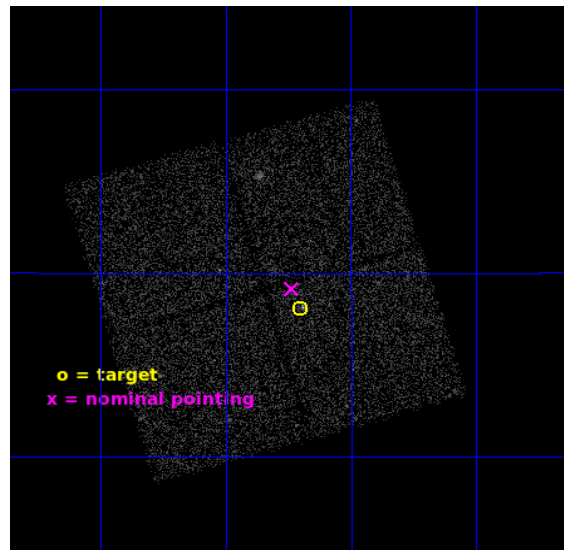
L2 Processing Date : Oct 24 2020

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1 Front

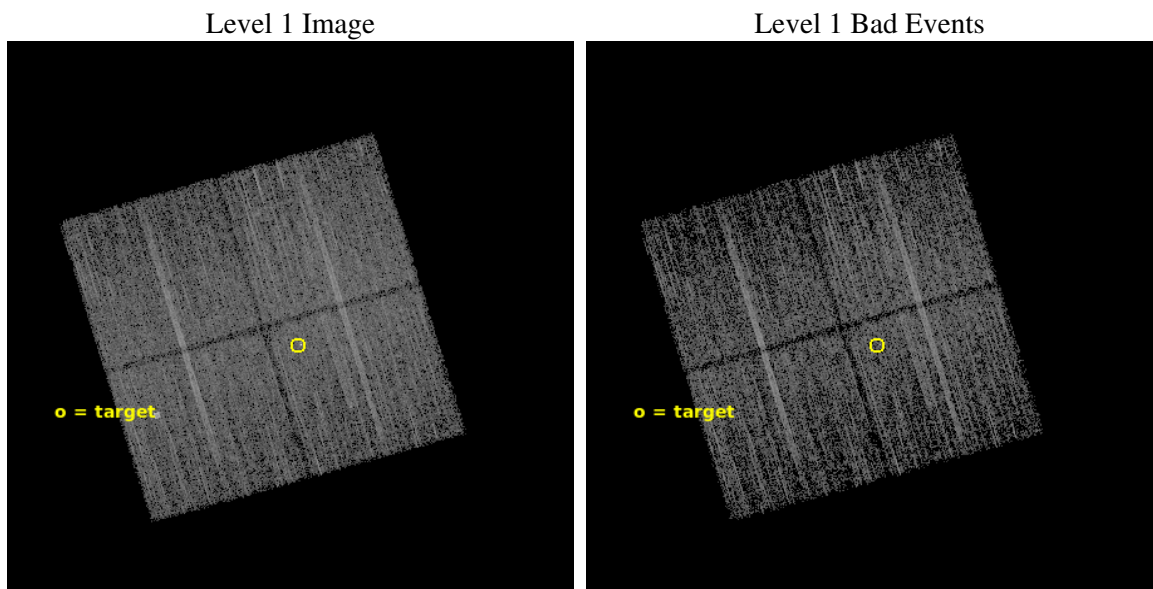
seq_num	801759	Sequence number
obs_id	20549	Observation id
title	Hiding in Plain Sight - Recovering Clusters with the Strongest AGN in their Cores	Proposal title
observer	Paul Nulsen	Principal investigator
object	1RXSJ151642.1+291803	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	229.175417	Observer's specified target RA [deg]
dec_targ	29.300833	Observer's specified target Dec [deg]
ra_nom	229.18391847934	Nominal RA [deg]
dec_nom	29.31932667481	Nominal Dec [deg]
roll_nom	73.521652391531	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10078.100077629	Sum of GTIs [s]
livetime	9946.4222807255	Livetime [s]
ontime0	10078.100077629	Sum of GTIs [s]
ontime1	10074.959047437	Sum of GTIs [s]
ontime2	10078.100077629	Sum of GTIs [s]
ontime3	10078.100077629	Sum of GTIs [s]
l2events	25628	Number of level 2 events



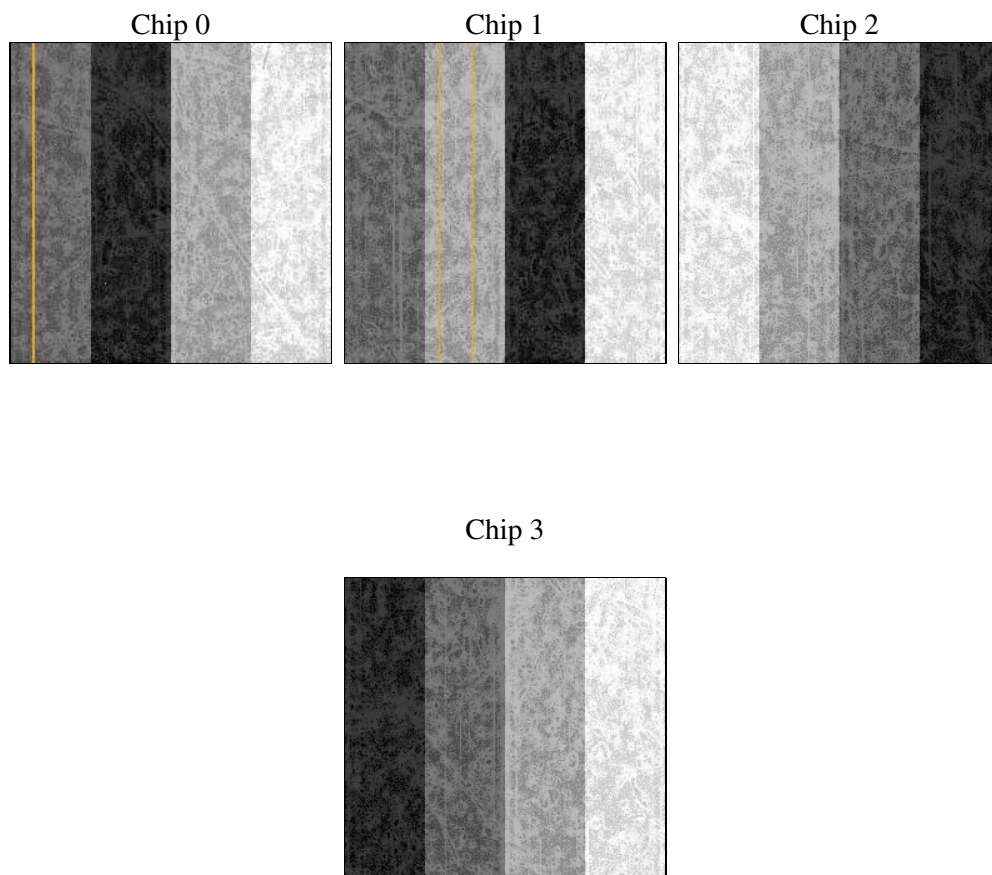
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10078.100077629	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	10078.100077629	Sum of GTIs [s]
date	2020-10-24T14:31:25	Date and time of file creation	ontime1	10074.959047437	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10078.100077629	Sum of GTIs [s]
			ontime3	10078.100077629	Sum of GTIs [s]
			l1events	275929	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	63918	67788	74205	70018
rejected events	56393	59024	66920	61710
rejected %	88%	87%	90%	88%

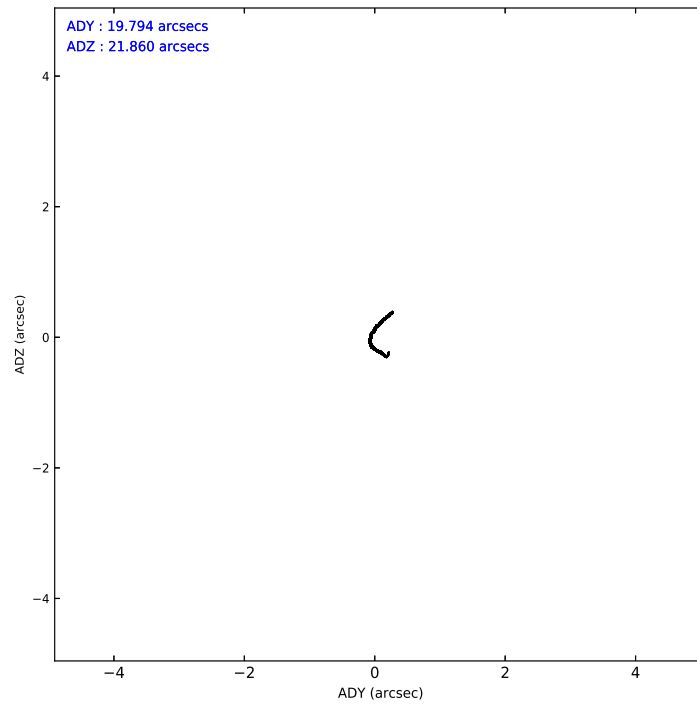
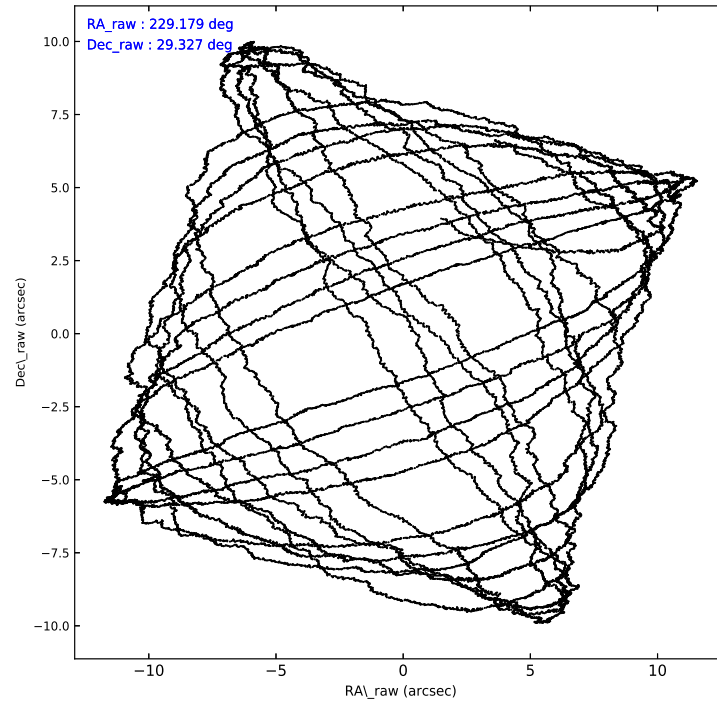
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2657	3550	2845	3565
	4%	5%	3%	5%
grade 1 events	37	36	48	87
	0%	0%	0%	0%
grade 2 events	1927	1965	1790	1635
	3%	2%	2%	2%
grade 3 events	754	746	641	841
	1%	1%	0%	1%
grade 4 events	719	730	685	783
	1%	1%	0%	1%
grade 5 events	2413	2567	2150	2760
	3%	3%	2%	3%
grade 6 events	1471	1776	1324	1486
	2%	2%	1%	2%
grade 7 events	53940	56418	64722	58861
	84%	83%	87%	84%

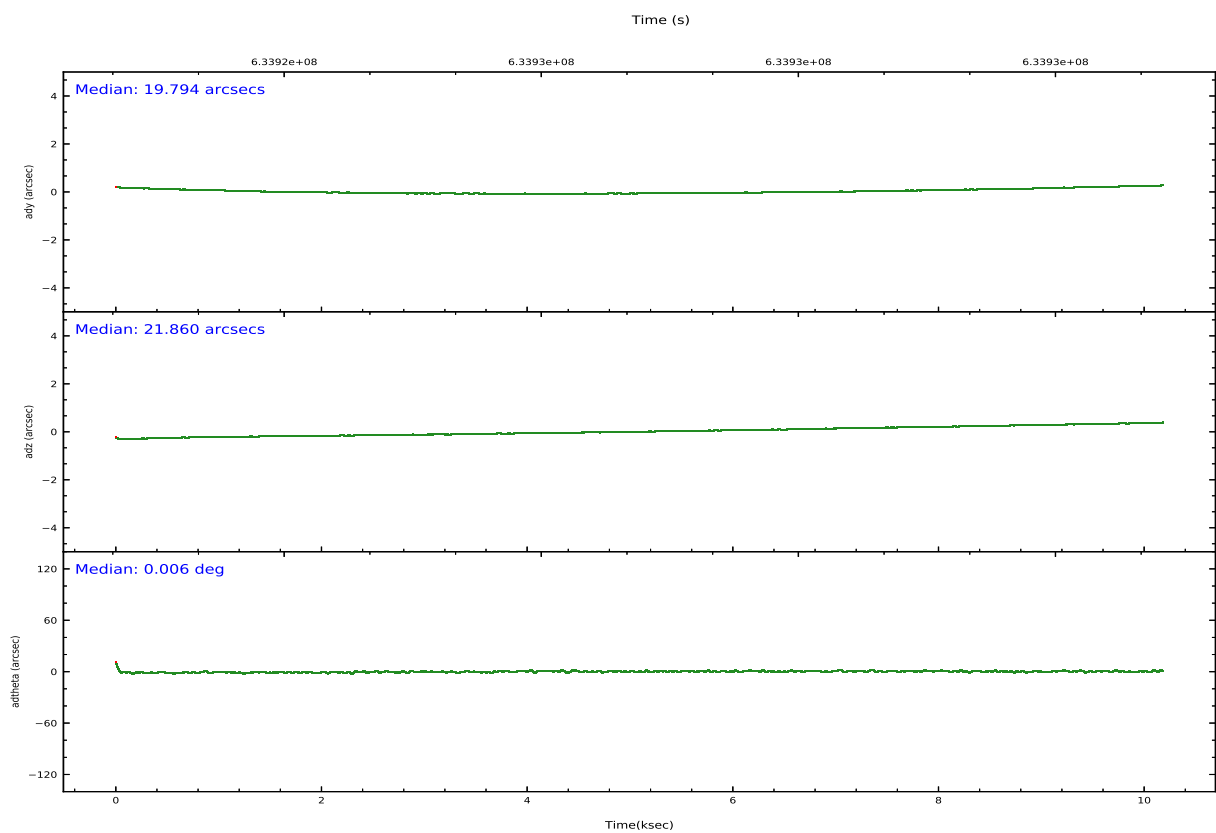
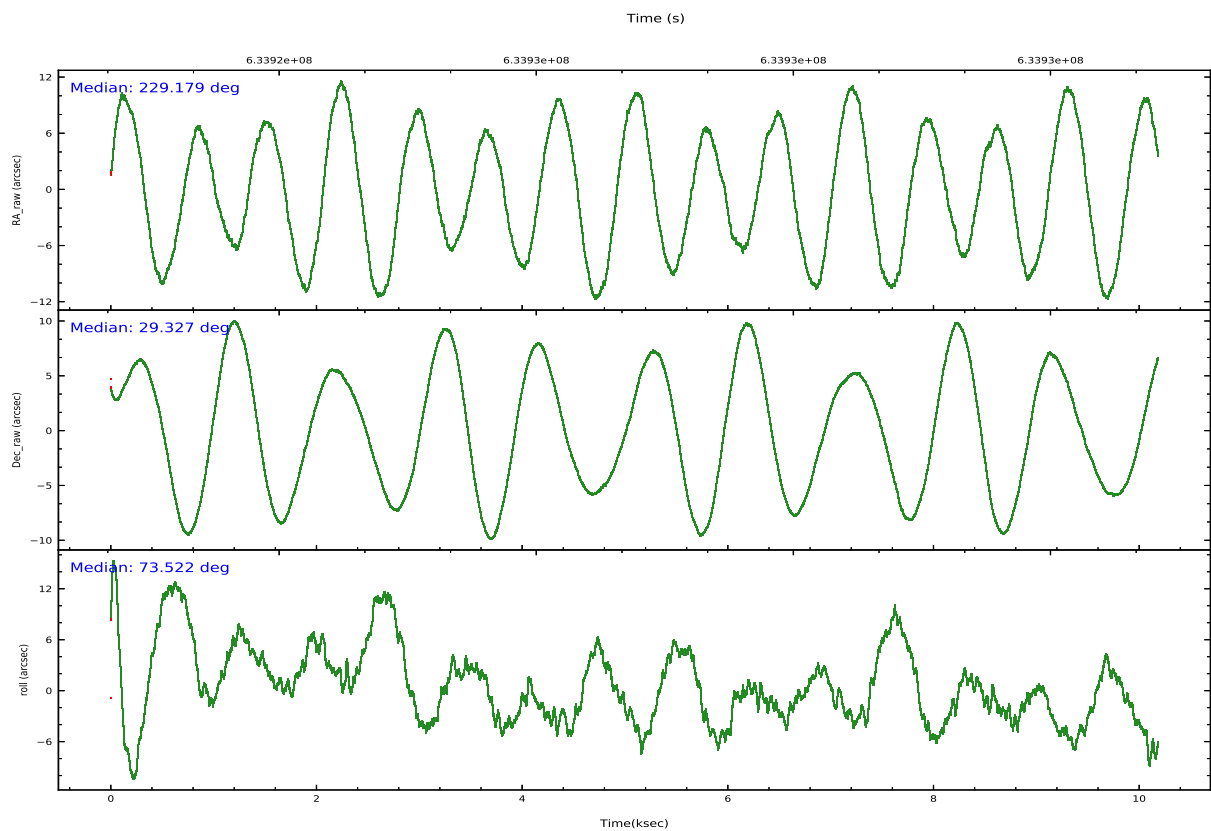
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	229.186342	229.18391847934
[deg] Pointing Dec	29.299811	29.31932667481
[deg] Pointing Roll	73.318313	73.52165239153101
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-230.662463	-230.6708287110191
[mm] SIM translation stage offset	-2.93	-2.921624291910604
[s] Observation start time (MET)	633923548.184000	633922598.5650899
Observation start date	2018-02-02T01:51:19	2018-02-02T01:36:38
[s] Observation end time (MET)	633933548.184000	633934255.89077
Observation end date	2018-02-02T04:37:59	2018-02-02T04:50:55
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



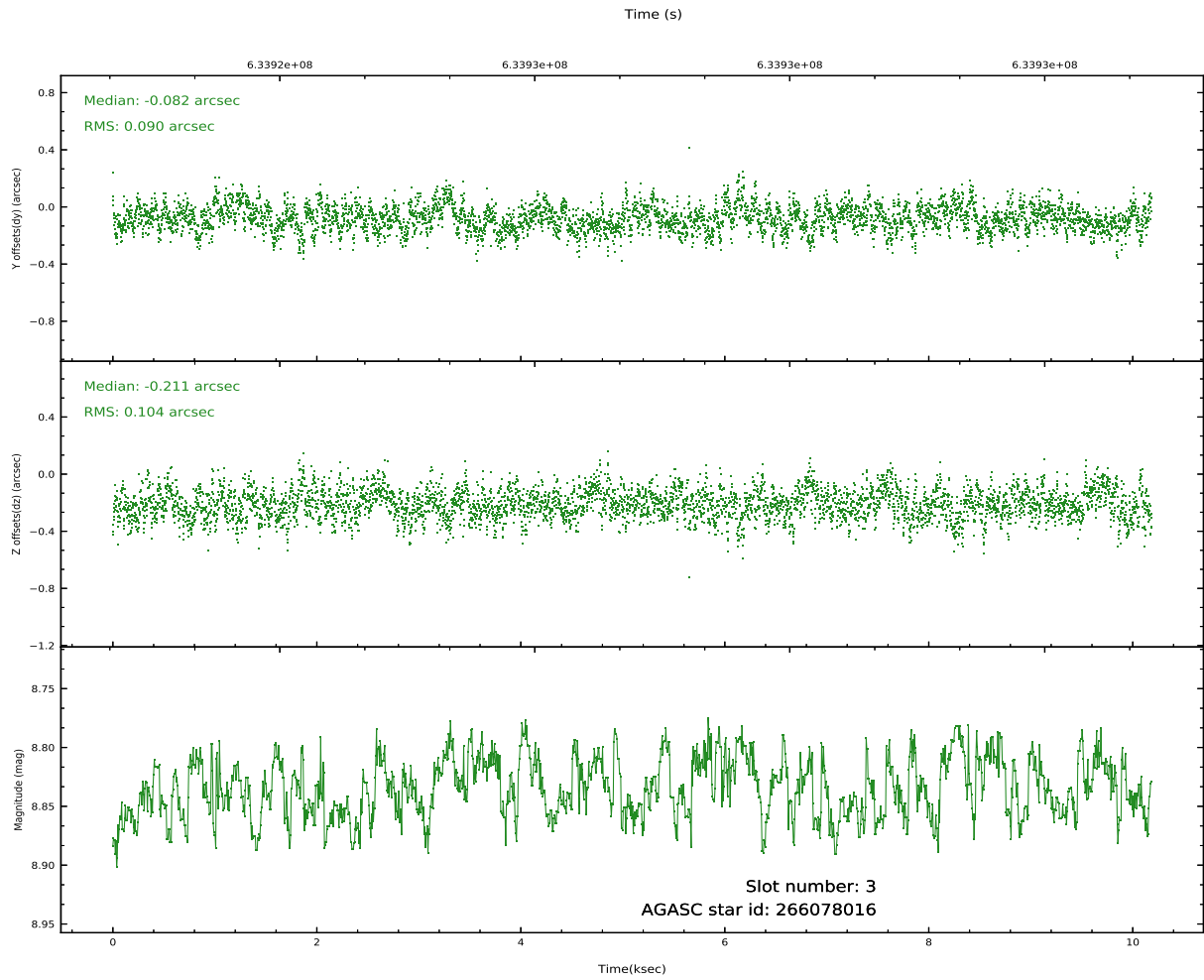
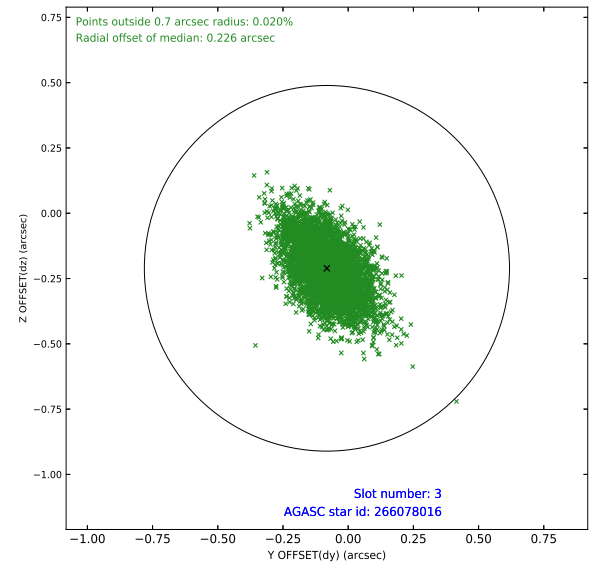
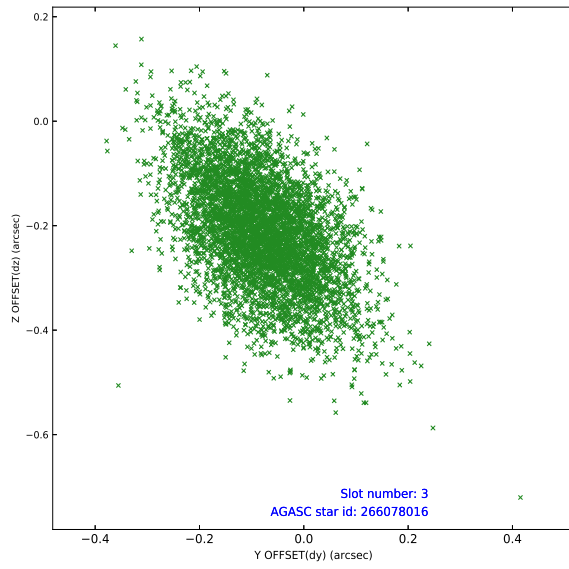


Slot Statistics

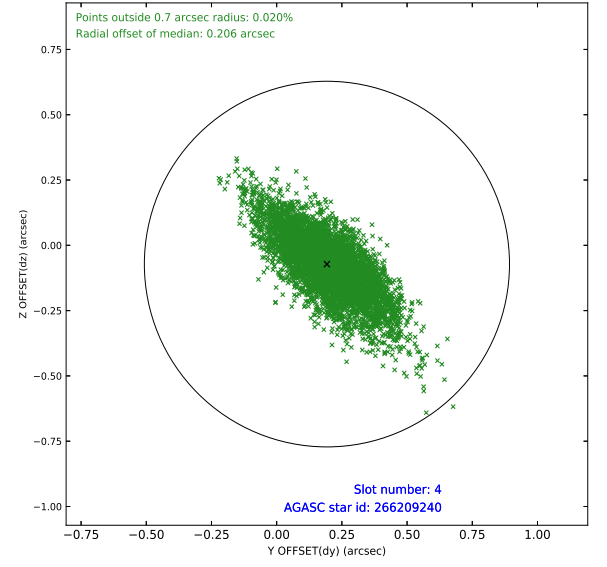
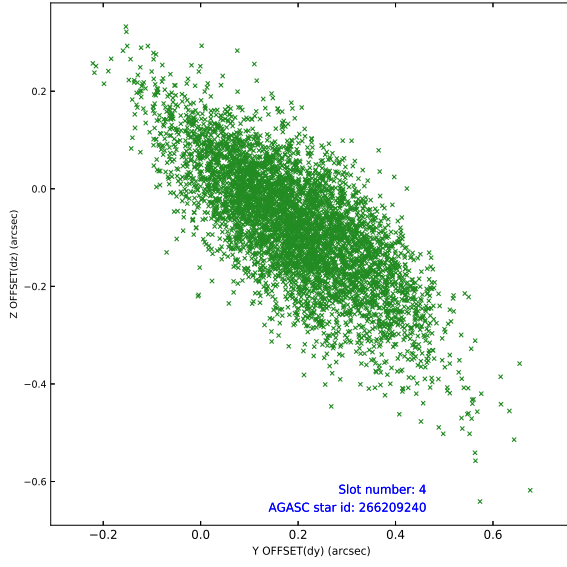
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-4	7.14	2485	1.000	0.201	0.066	0.009	0.017	0.000000	0.000000	2139.57	994
1	FID		ACIS-I-5	7.20	2485	1.000	-0.322	0.046	0.008	0.014	0.000000	0.000000	-1828.08	992
2	FID		ACIS-I-6	7.22	2485	1.000	0.021	-0.045	0.010	0.016	0.000000	0.000000	384.65	1636
3	GUIDE	used	266078016	8.84	4965	1.000	-0.082	-0.211	0.143	0.242	228.824691	28.904950	-1687.24	684
4	GUIDE	used	266209240	8.27	4963	1.000	0.193	-0.072	0.181	0.334	230.081534	29.743404	2343.39	-2217
5	GUIDE	used	266212024	8.07	4969	1.000	-0.201	0.074	0.128	0.230	229.899191	29.567570	1571.00	-1858
6	GUIDE	used	266216464	8.58	4965	1.000	0.073	0.292	0.148	0.248	229.606143	28.653998	-1843.87	-1938
7	GUIDE	used	266211960	9.07	4959	1.000	0.014	-0.082	0.204	0.345	228.960623	29.327772	-106.87	707

2.4 Star Slots

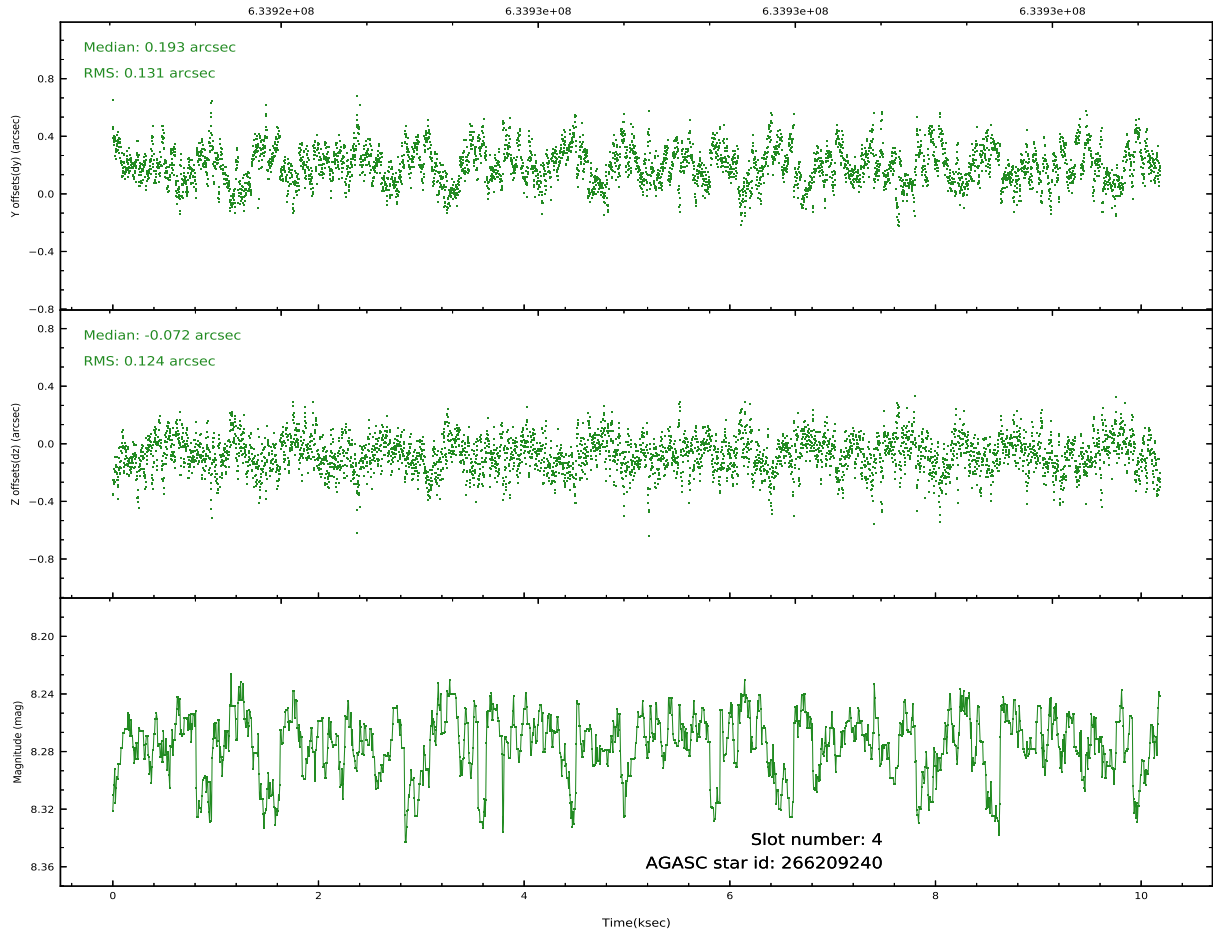
2.4.1 Slot 3



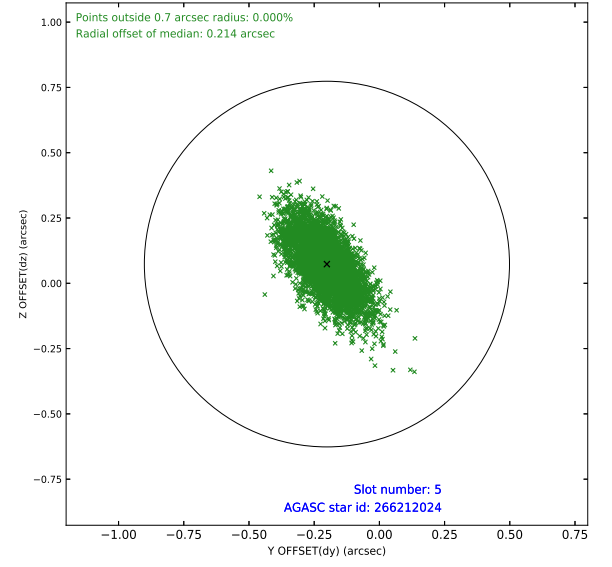
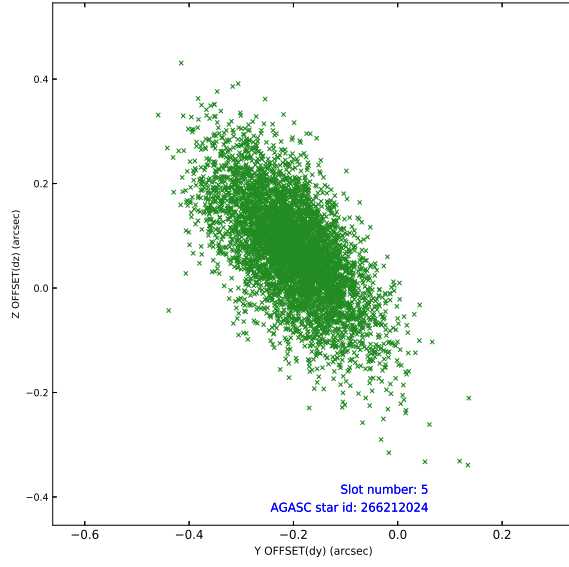
2.4.2 Slot 4



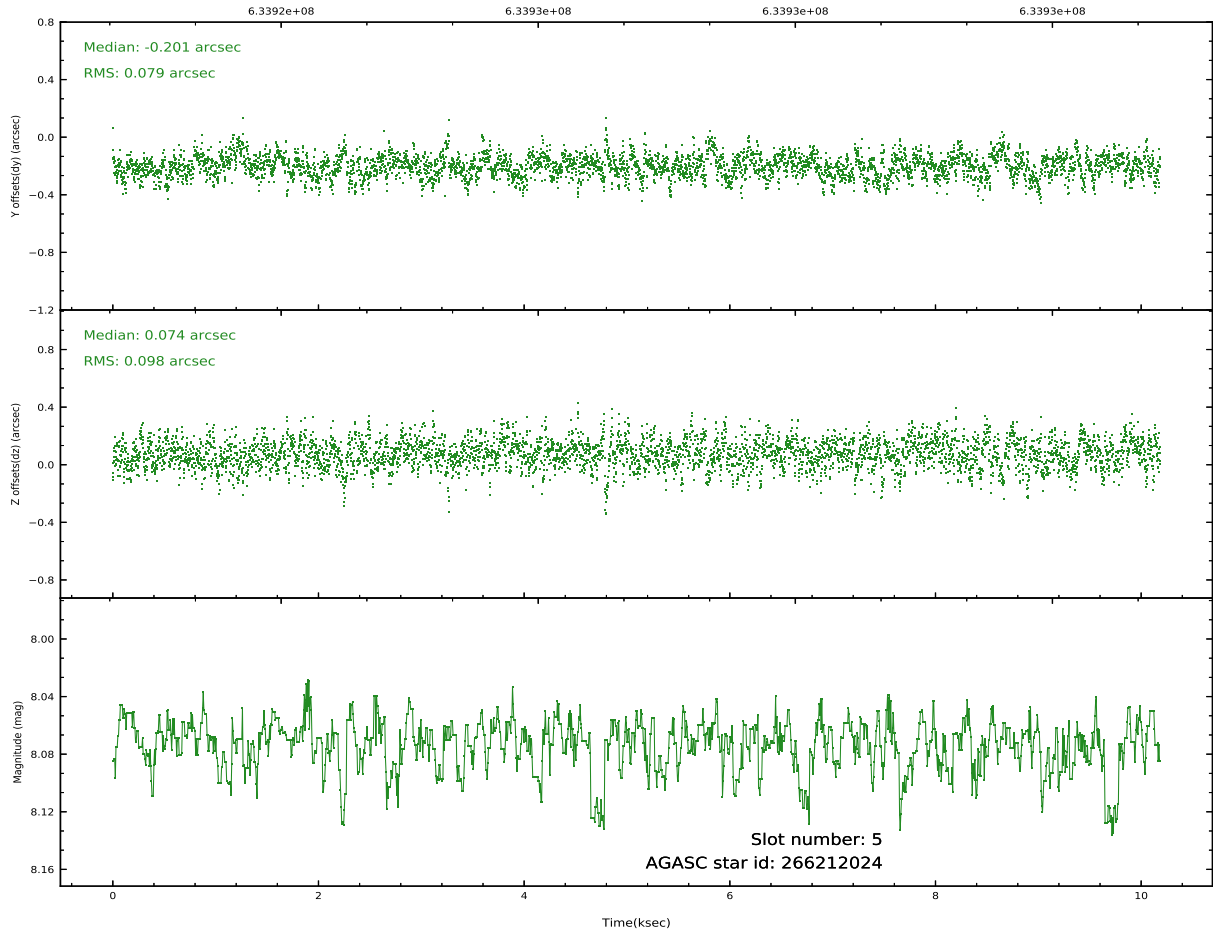
Time (s)



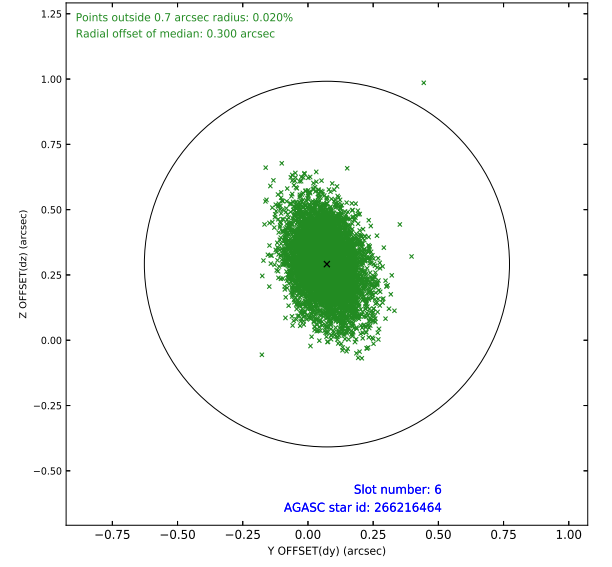
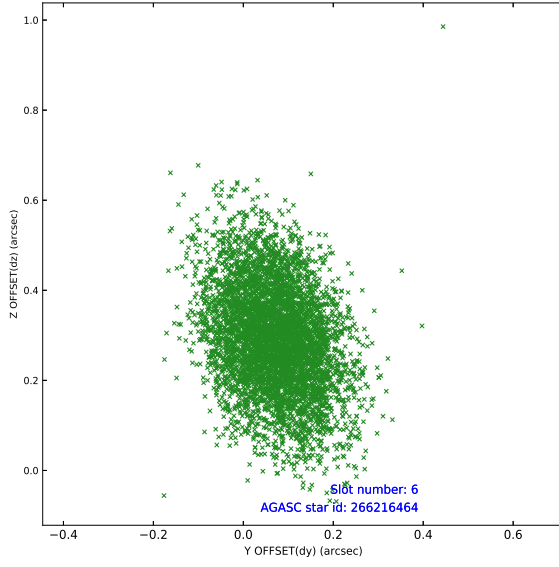
2.4.3 Slot 5



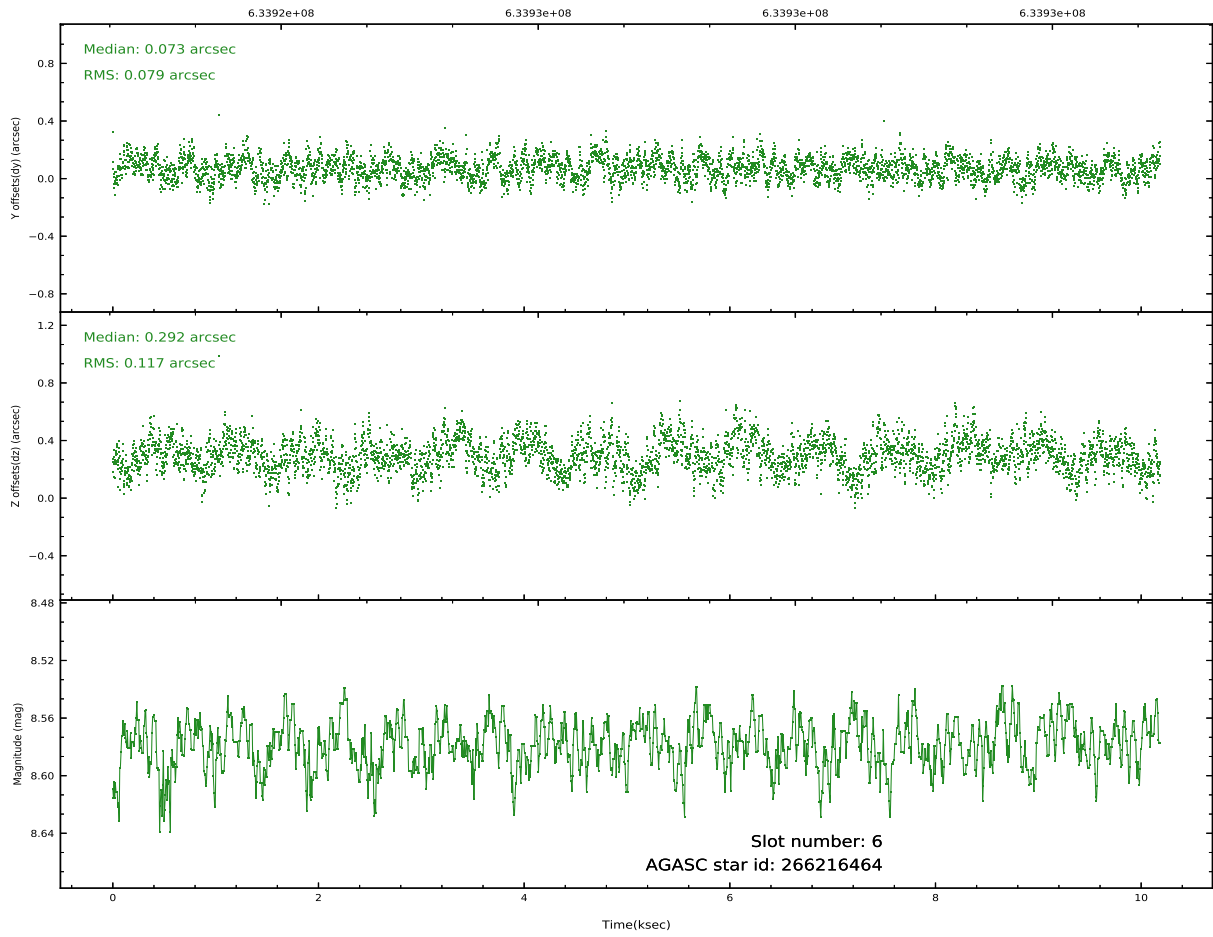
Time (s)



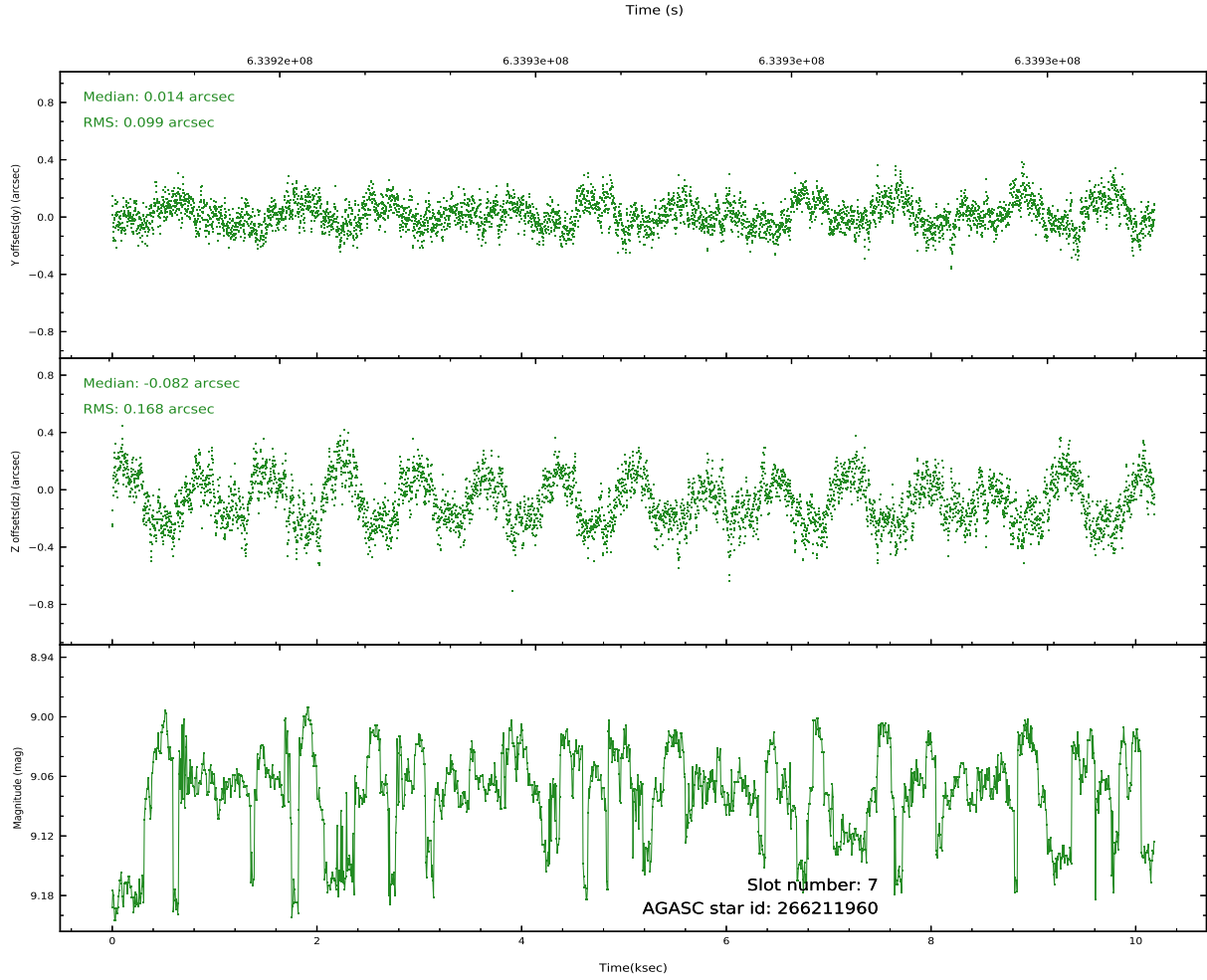
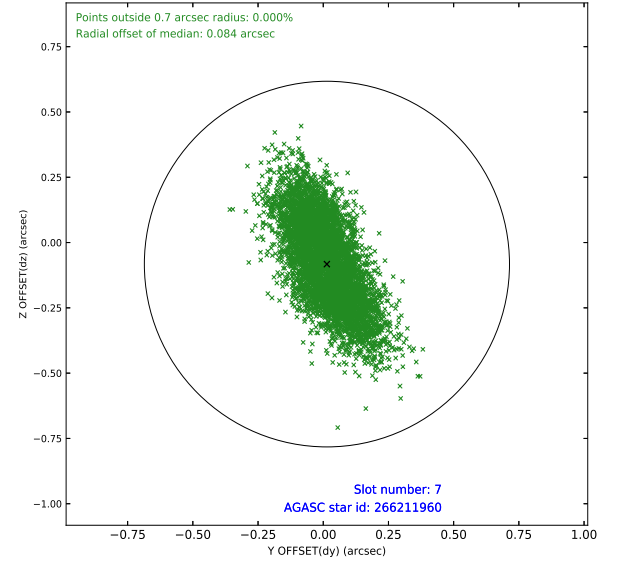
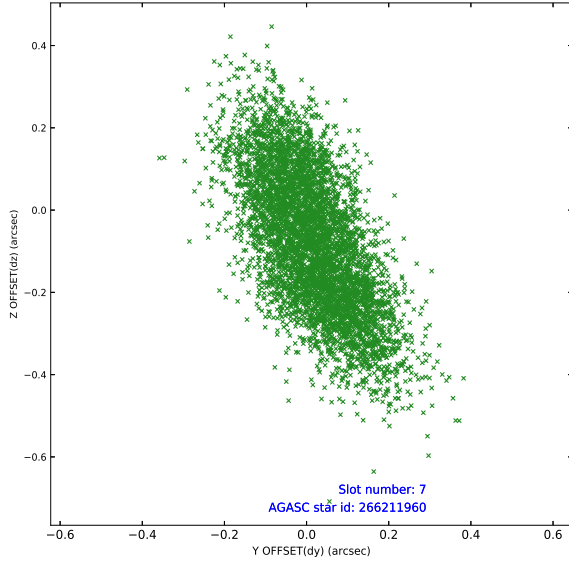
2.4.4 Slot 6



Time (s)

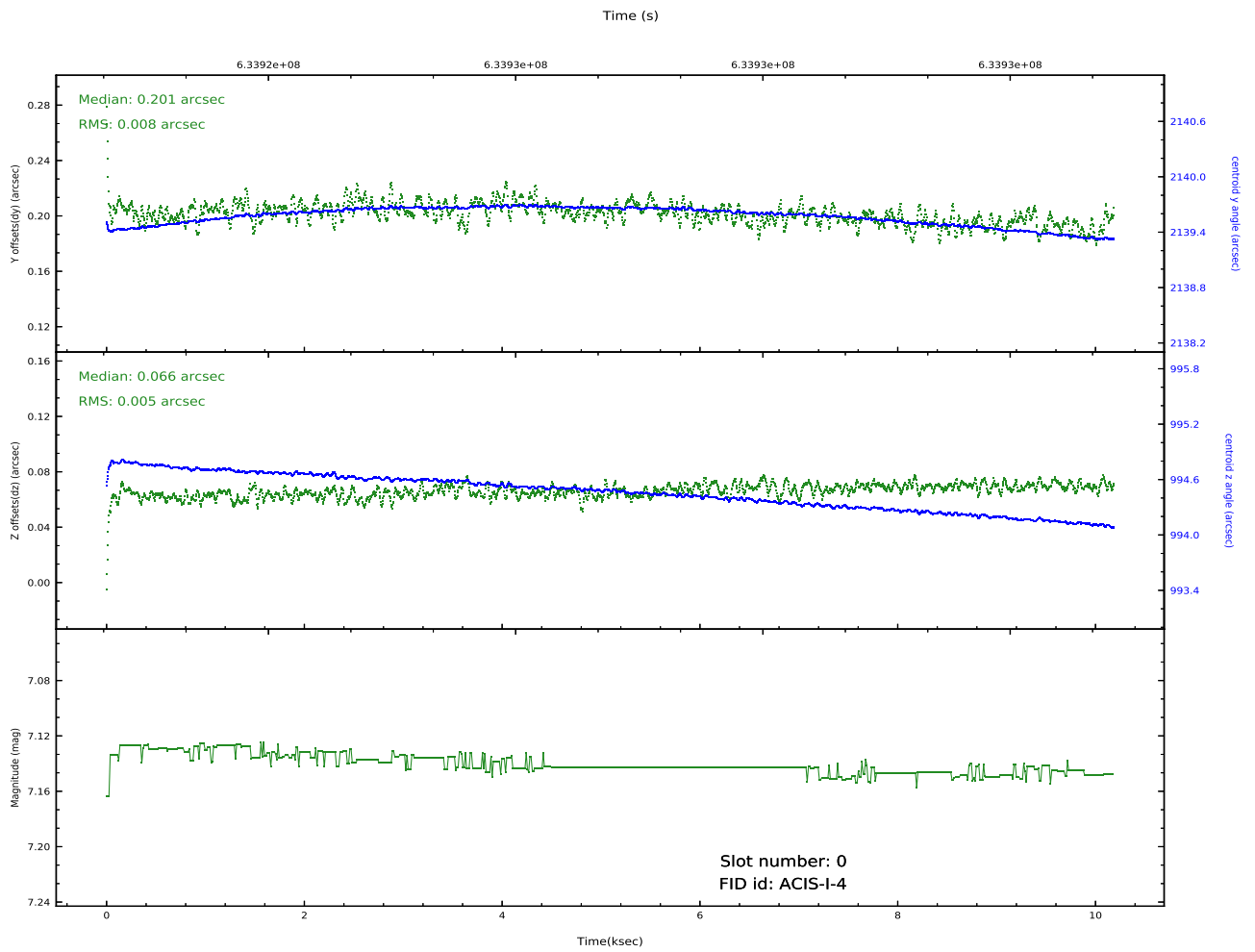
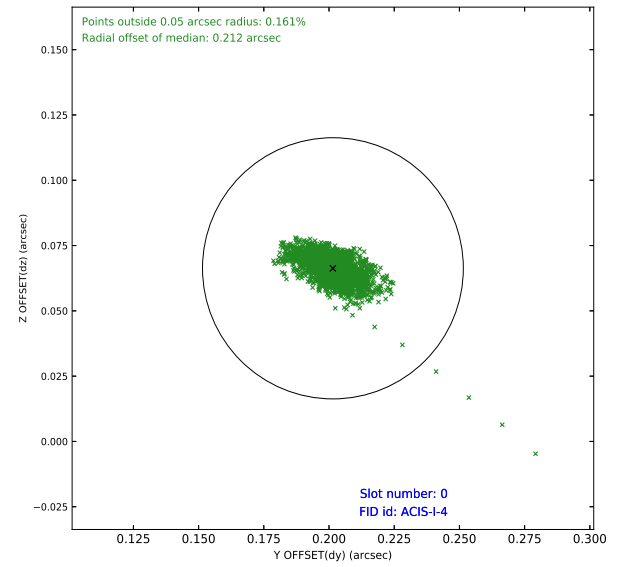
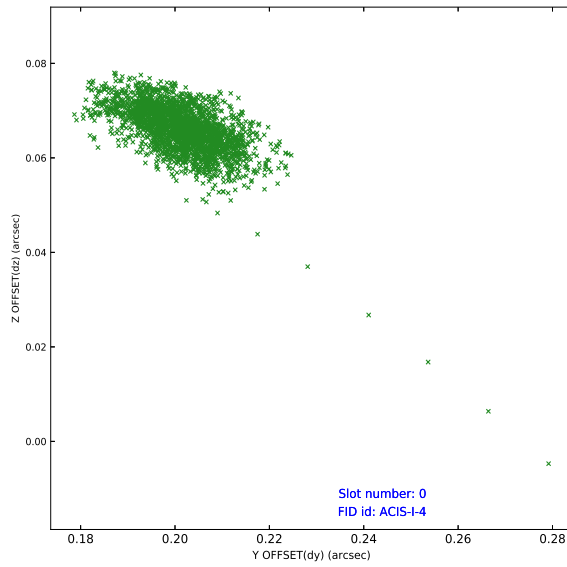


2.4.5 Slot 7

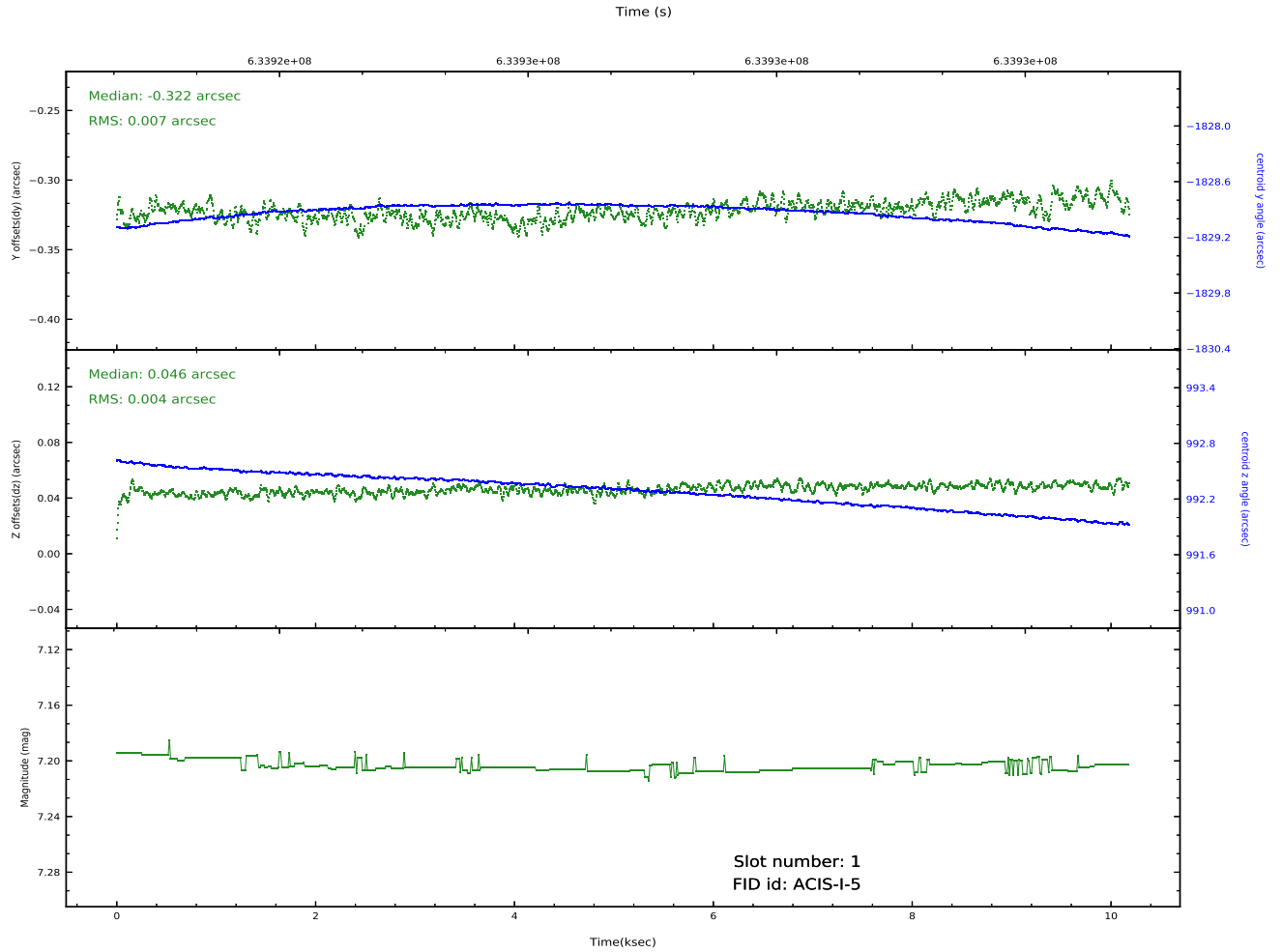
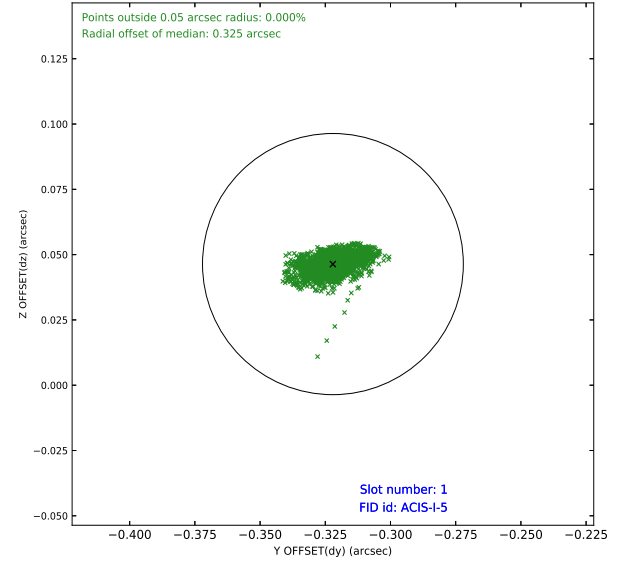
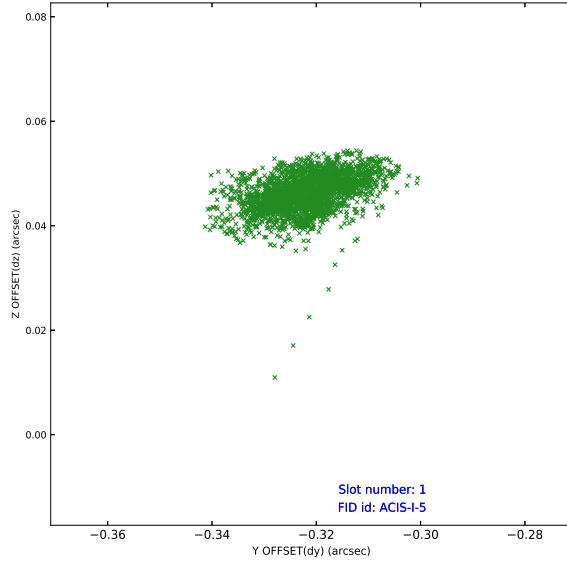


2.5 FID Slots

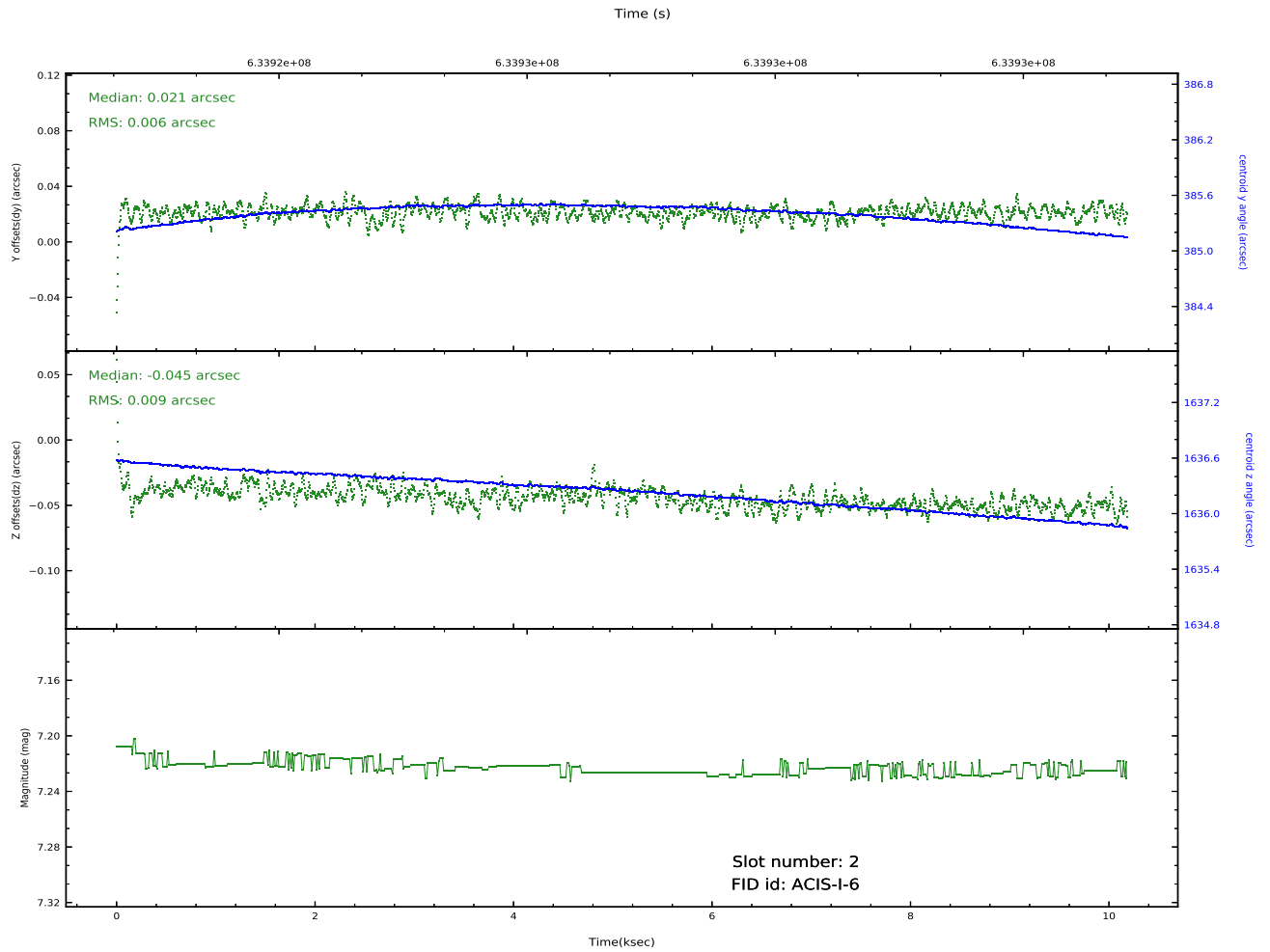
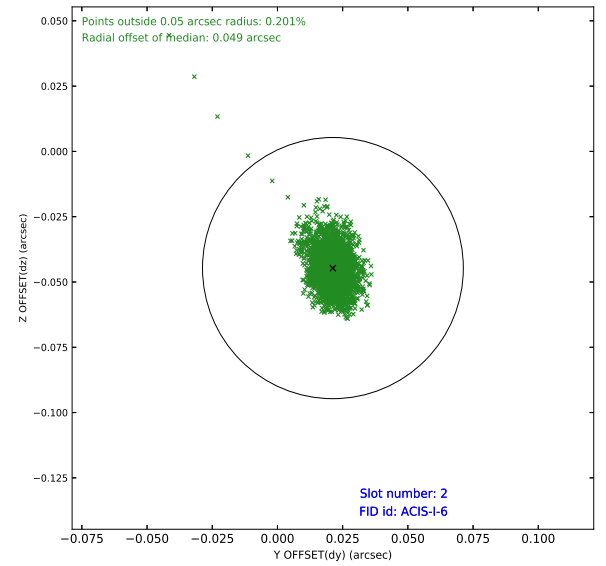
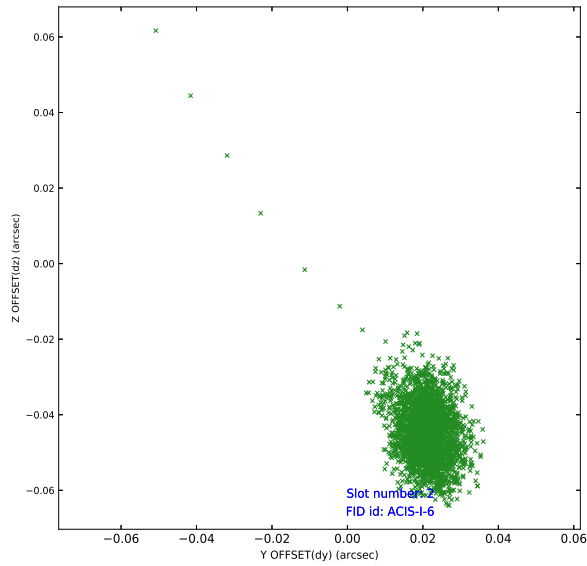
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.078100077629

A.2 Comments