

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20567 - L2 Version 2
Chandra X-Ray Center

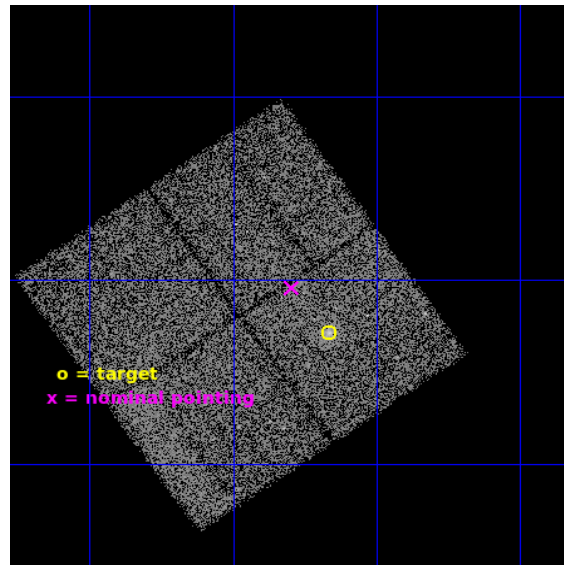
L2 Processing Date : Oct 29 2020

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1 Front

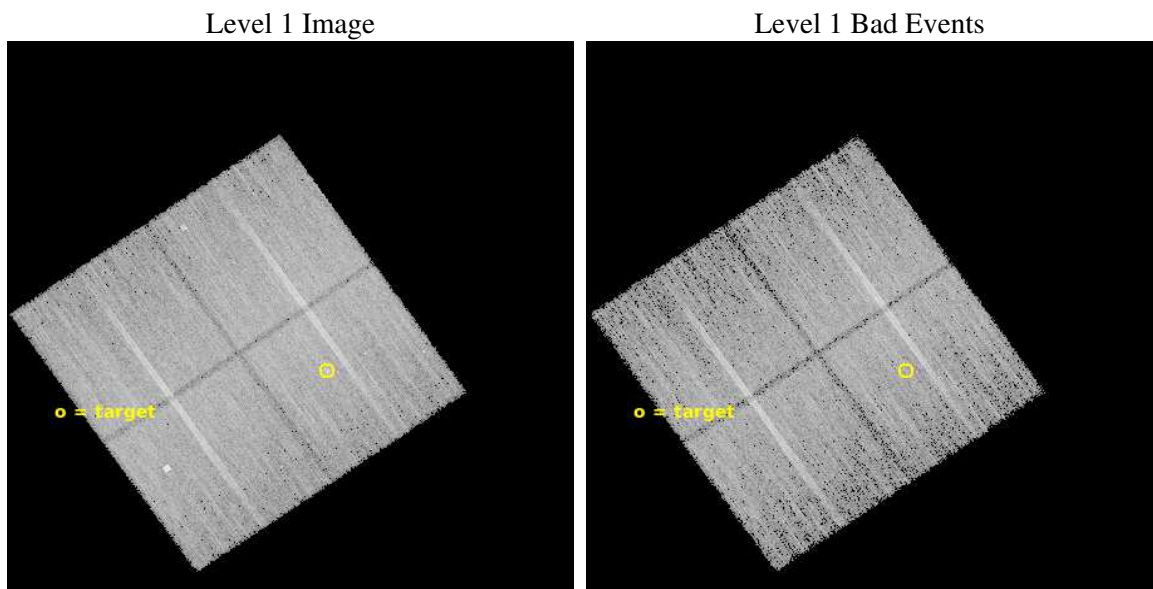
seq_num	801766	Sequence number
obs_id	20567	Observation id
title	The Chandra Strong Lens Sample: Revealing Baryonic Physics In Strong Lensing Selected Clusters	Proposal title
observer	Matthew Bayliss	Principal investigator
object	SDSSJ1050+0017	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.666667	Observer's specified target RA [deg]
dec_targ	0.285	Observer's specified target Dec [deg]
ra_nom	162.69868209235	Nominal RA [deg]
dec_nom	0.32646439484005	Nominal Dec [deg]
roll_nom	55.216309093312	Nominal Roll [deg]
revision	2	Processing version of data
ontime	22075.059099078	Sum of GTIs [s]
livetime	21786.632200527	Livetime [s]
ontime0	22078.200169921	Sum of GTIs [s]
ontime1	22078.200169921	Sum of GTIs [s]
ontime2	22078.200169921	Sum of GTIs [s]
ontime3	22075.059099078	Sum of GTIs [s]
l2events	63387	Number of level 2 events



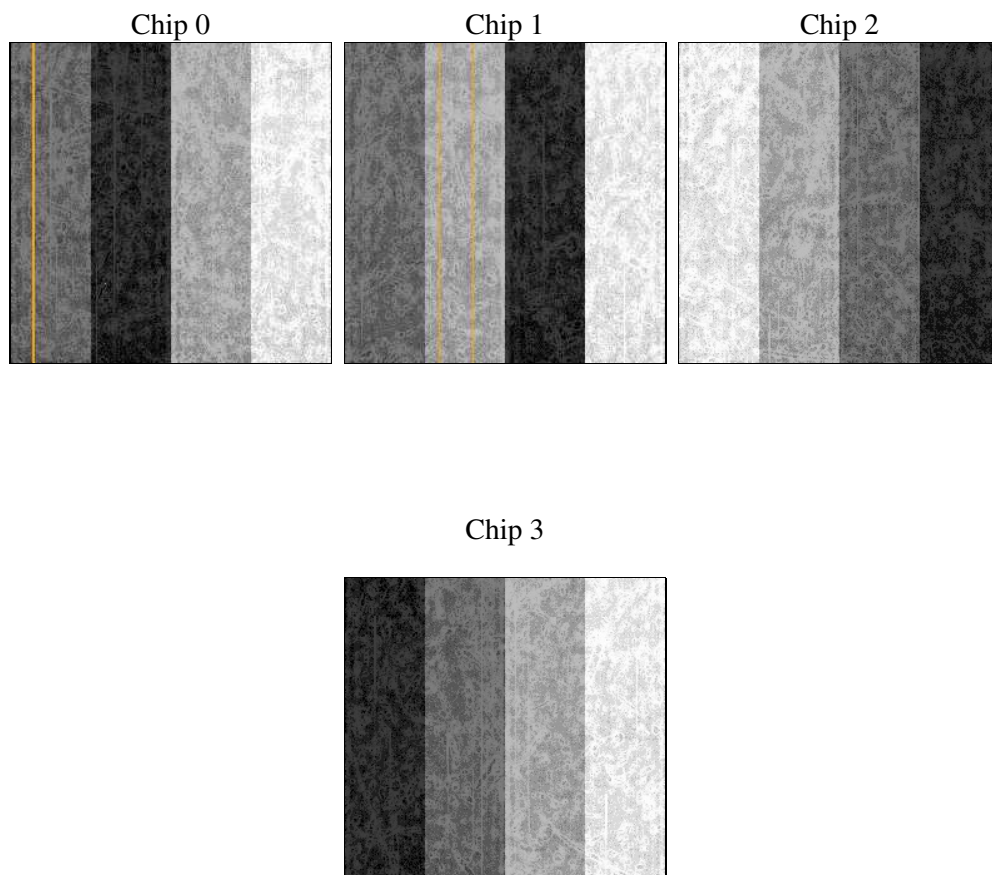
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	22075.059099078	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	22078.200169921	Sum of GTIs [s]
date	2020-10-29T11:23:17	Date and time of file creation	ontime1	22078.200169921	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	22078.200169921	Sum of GTIs [s]
			ontime3	22075.059099078	Sum of GTIs [s]
			l1events	635626	Number of level 1 events

2.1.4 Events

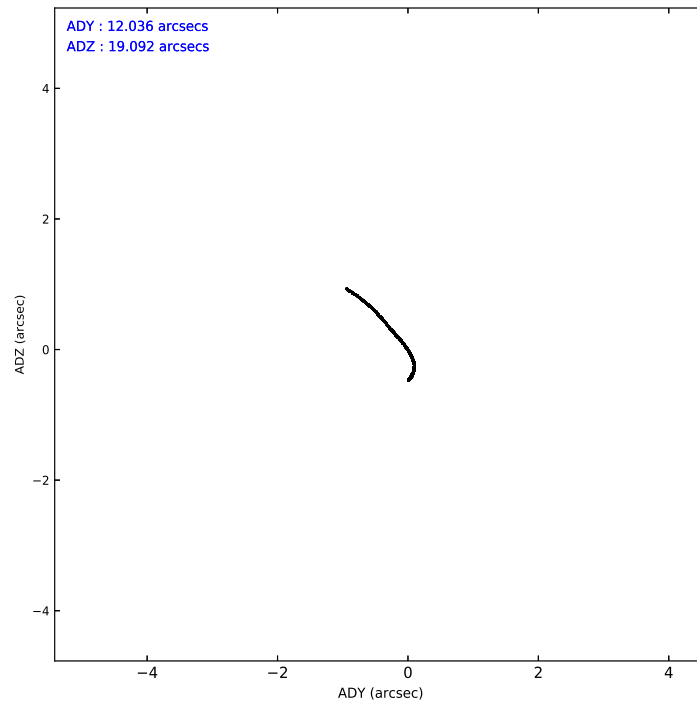
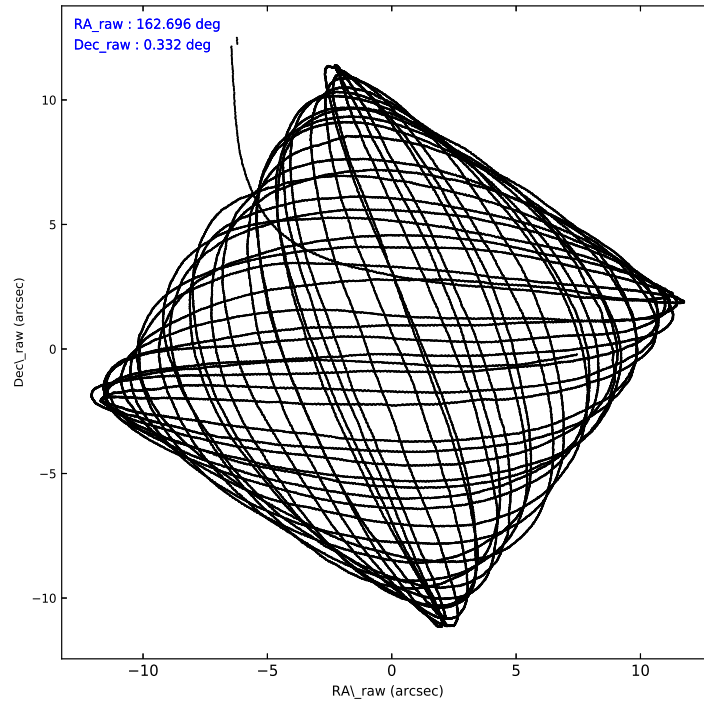
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	151492	156645	164069	163420
rejected events	132806	134849	145319	144746
rejected %	87%	86%	88%	88%

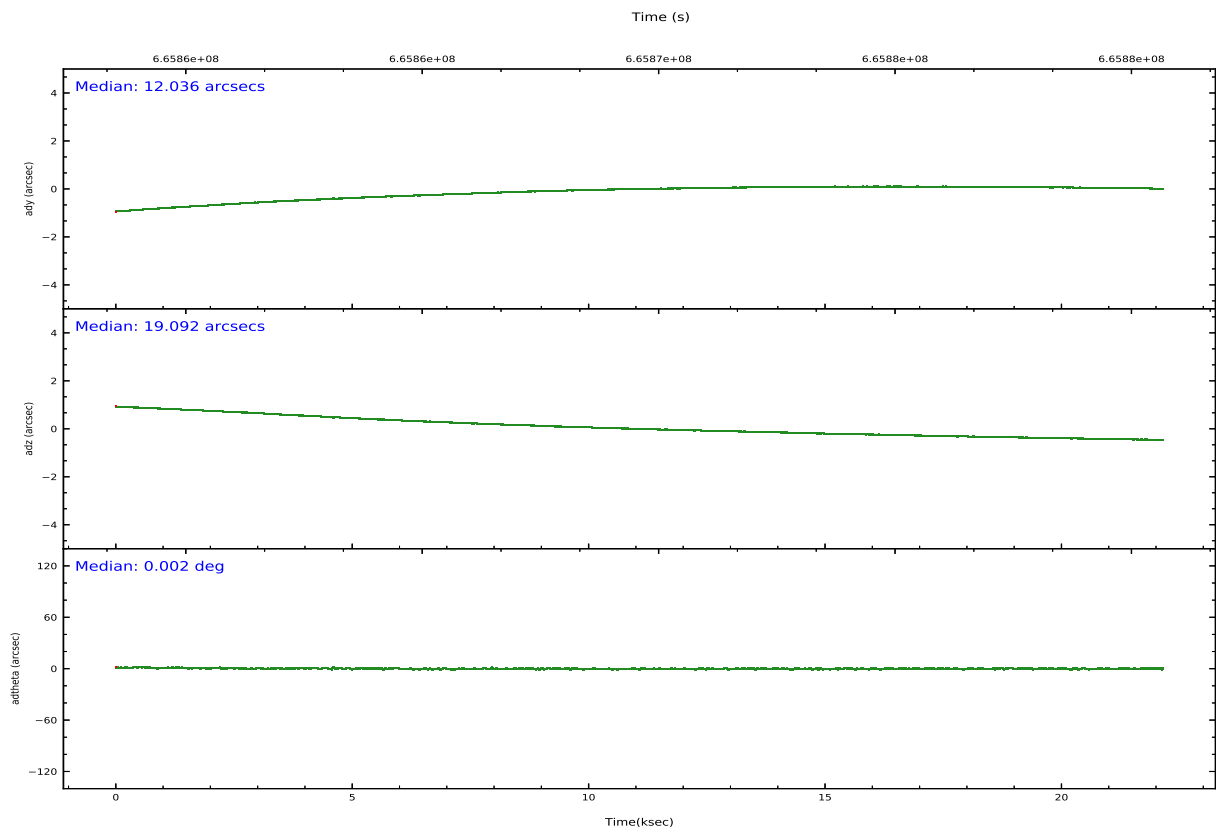
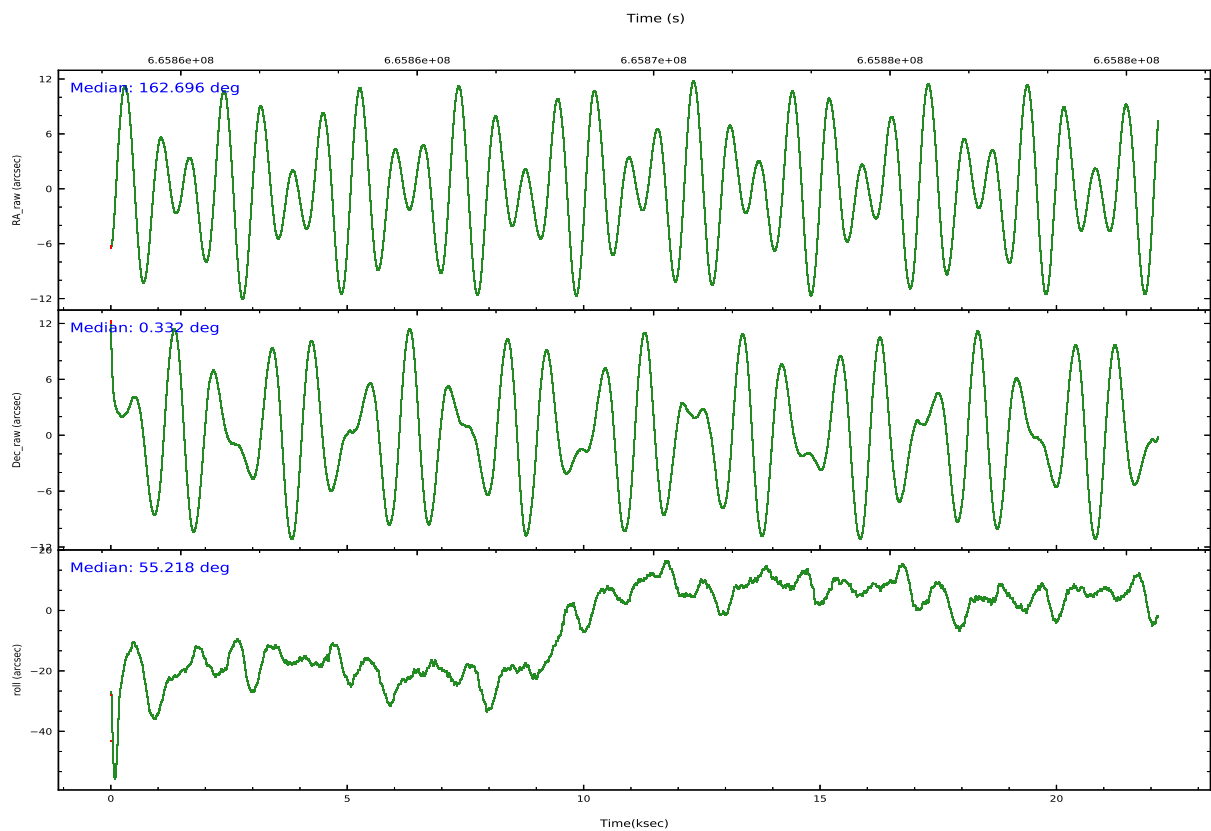
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6113	8129	7033	7214
	4%	5%	4%	4%
grade 1 events	96	118	110	97
	0%	0%	0%	0%
grade 2 events	4793	5260	4485	3994
	3%	3%	2%	2%
grade 3 events	1903	1958	1754	1874
	1%	1%	1%	1%
grade 4 events	1759	1828	1790	1848
	1%	1%	1%	1%
grade 5 events	7272	7348	6892	8094
	4%	4%	4%	4%
grade 6 events	4124	4626	3693	3749
	2%	2%	2%	2%
grade 7 events	125432	127378	138312	136550
	82%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	162.693892	162.69868209235	CCD I2 on	Y	Y
[deg] Pointing Dec	0.305109	0.32646439484005	CCD I3 on	Y	Y
[deg] Pointing Roll	54.999853	55.216309093312	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-225.840463	-225.8433433320239	CCD S3 on	O2	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	665858671.184000	665857139.22641	CCD S5 on	N	N
Observation start date	2019-02-06T16:43:22	2019-02-06T16:18:59	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	665880671.184000	665881568.05287	On-chip summing requested	N	N
Observation end date	2019-02-06T22:50:02	2019-02-06T23:06:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



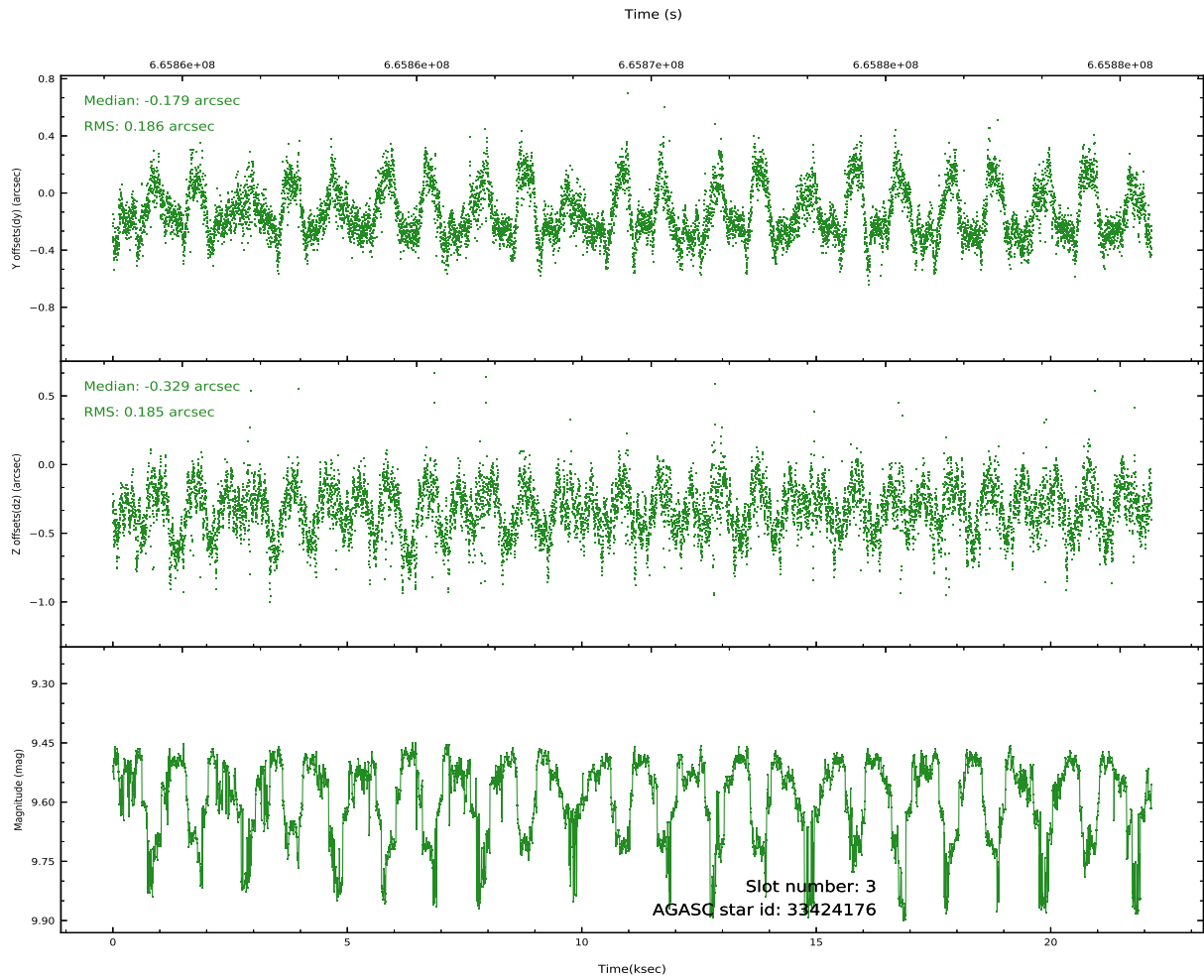
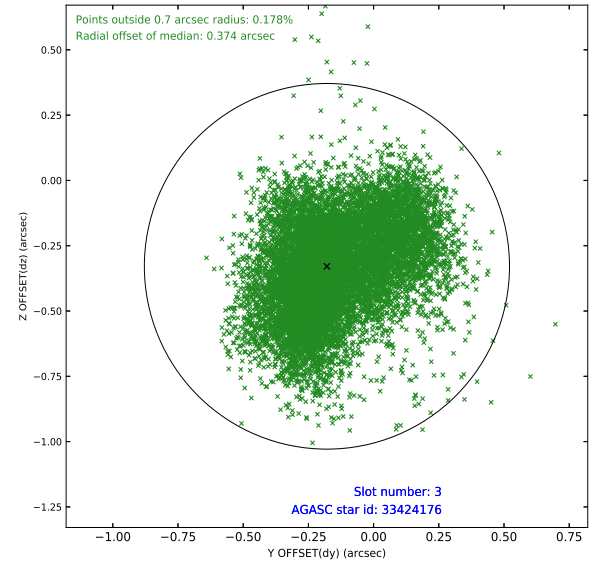
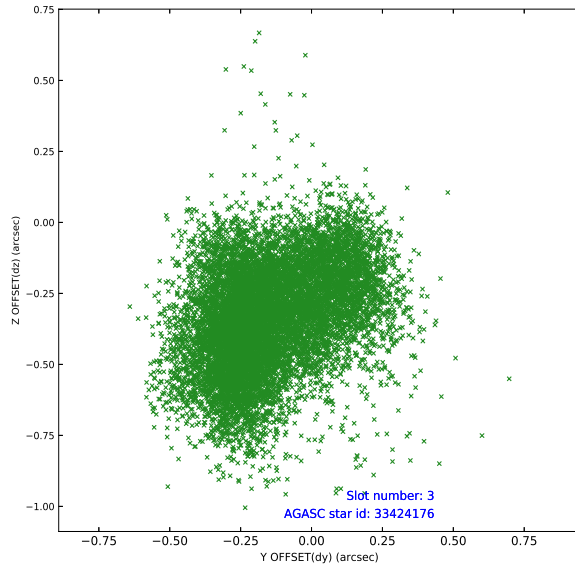


Slot Statistics

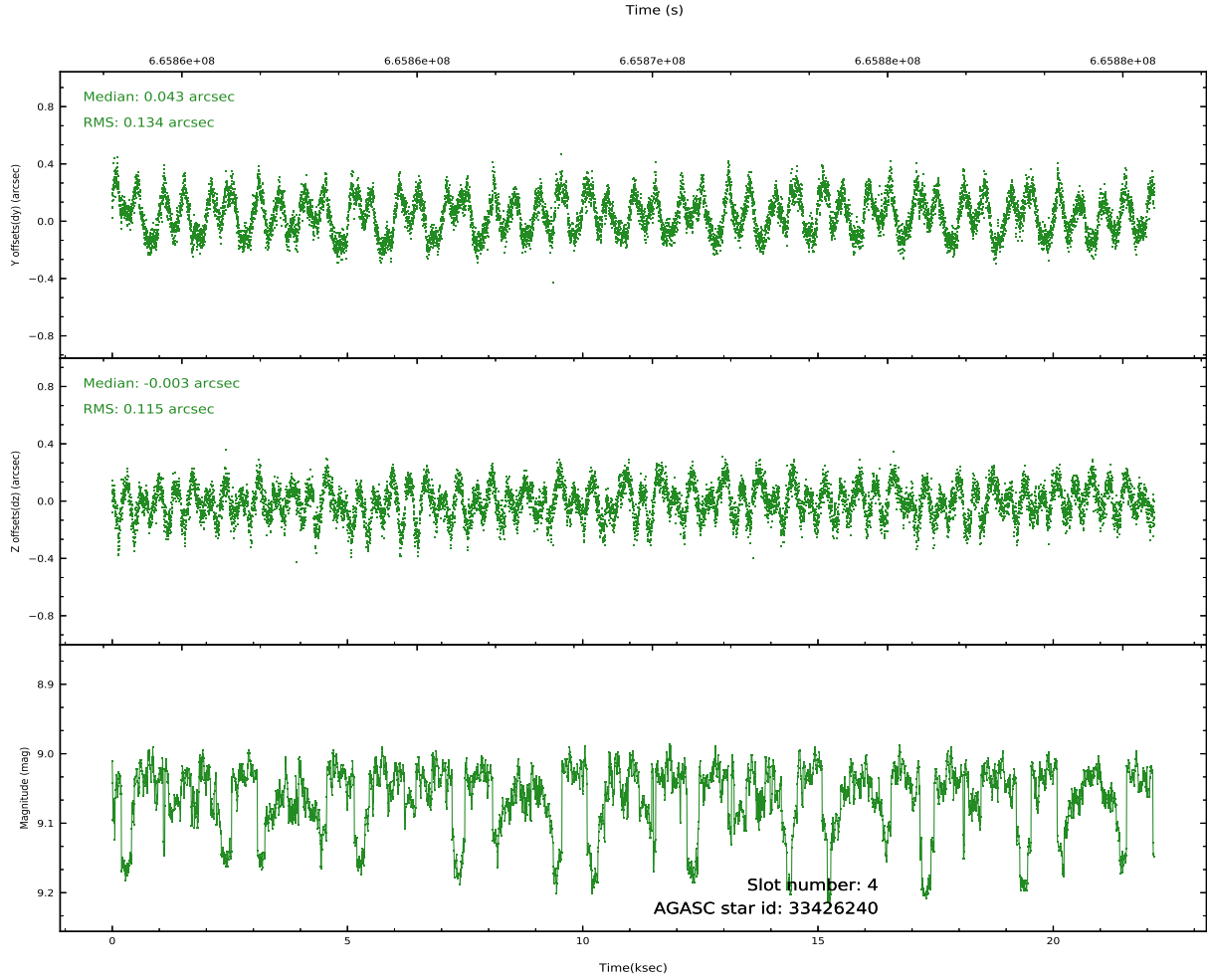
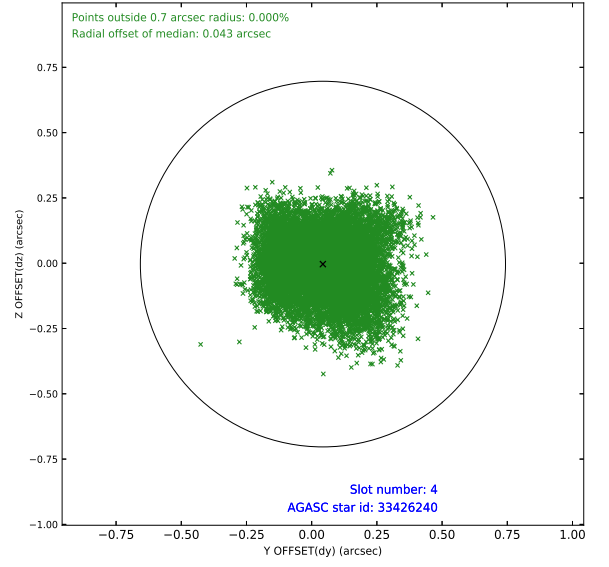
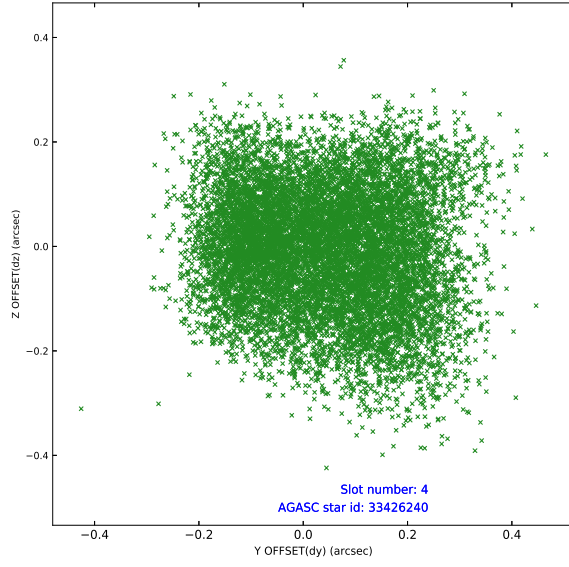
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.15	5402	1.000	0.305	-0.225	0.016	0.055	0.000000	0.000000	927.75	-1002
1	FID		ACIS-I-5	7.14	5401	1.000	-0.350	0.254	0.010	0.018	0.000000	0.000000	-1820.80	895
2	FID		ACIS-I-6	7.18	5403	1.000	-0.045	0.042	0.020	0.055	0.000000	0.000000	392.95	1540
3	GUIDE	used	33424176	9.57	10650	1.000	-0.179	-0.329	0.283	0.450	162.799259	0.674933	1308.38	453
4	GUIDE	used	33426240	9.05	10803	1.000	0.043	-0.003	0.193	0.290	162.557877	0.354342	-134.83	503
5	GUIDE	used	33427280	9.59	10778	1.000	-0.000	0.326	0.270	0.458	163.217983	0.156200	643.60	-1850
6	GUIDE	used	33431896	8.52	10800	1.000	-0.161	-0.110	0.166	0.255	162.788560	0.786057	1614.45	713
7	GUIDE	used	644090024	9.42	10776	1.000	0.247	0.141	0.202	0.326	162.874148	-0.483818	-1953.90	-2159

2.4 Star Slots

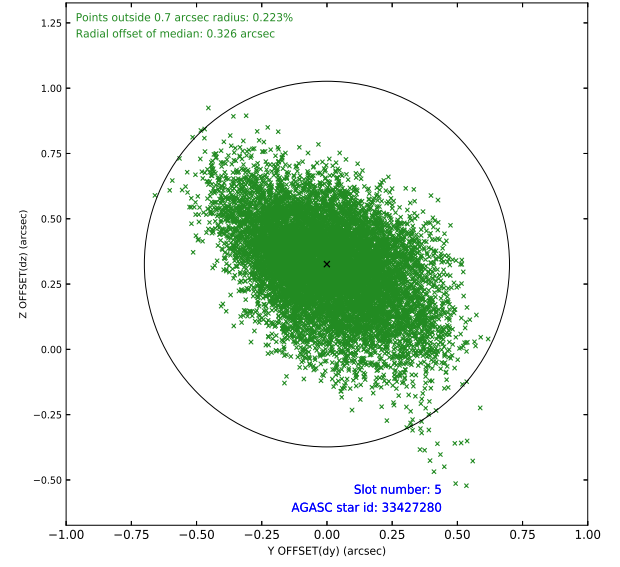
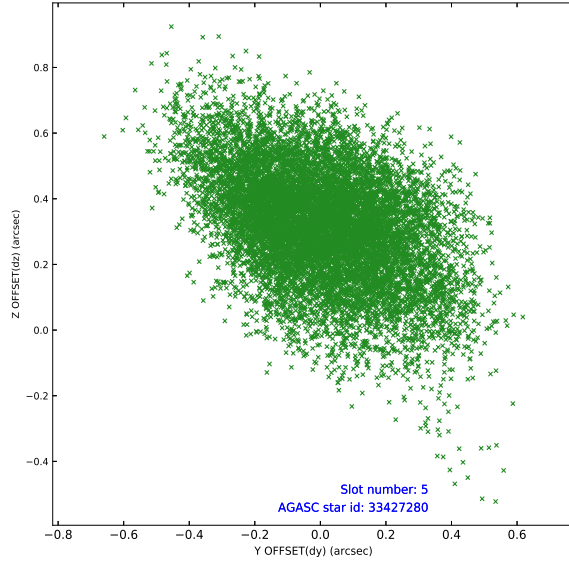
2.4.1 Slot 3



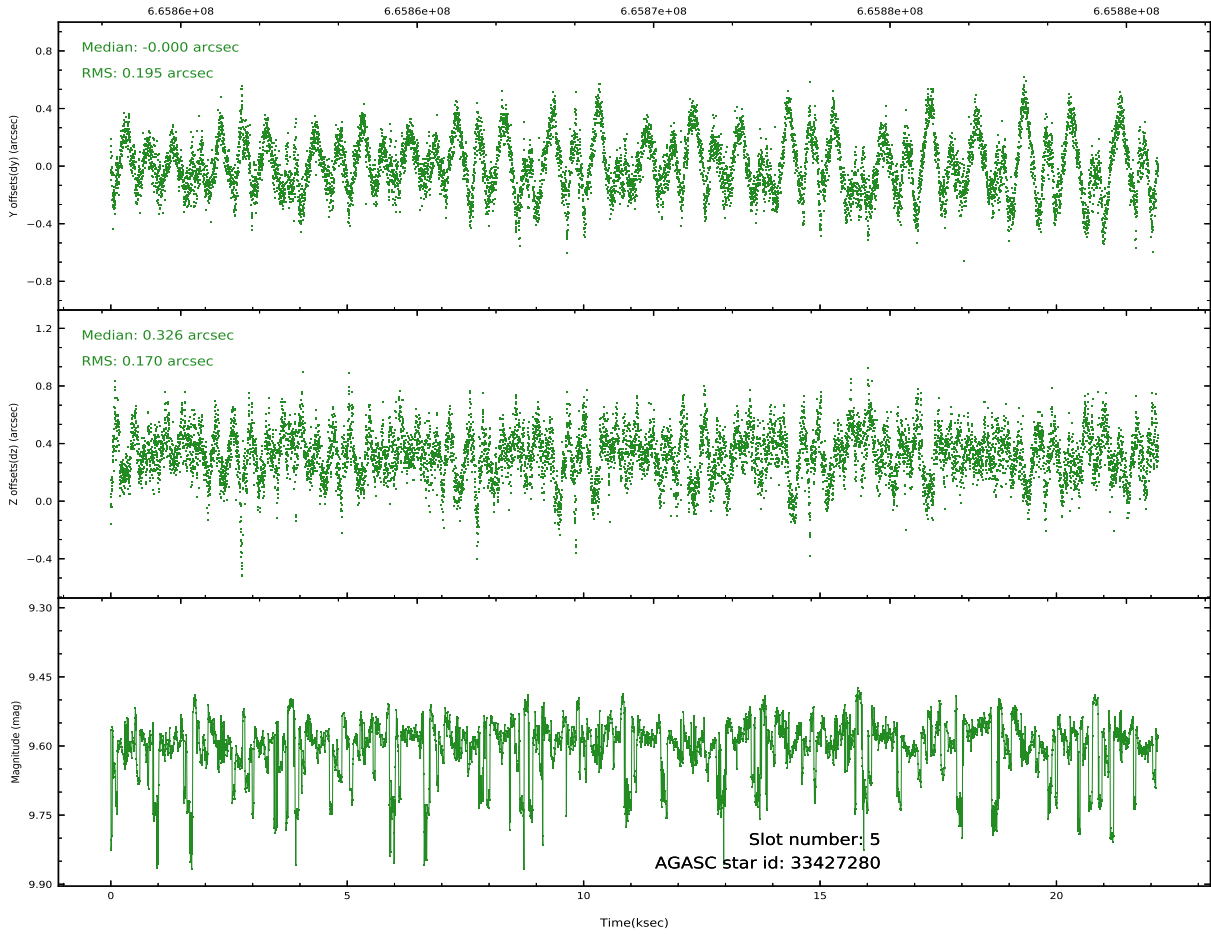
2.4.2 Slot 4



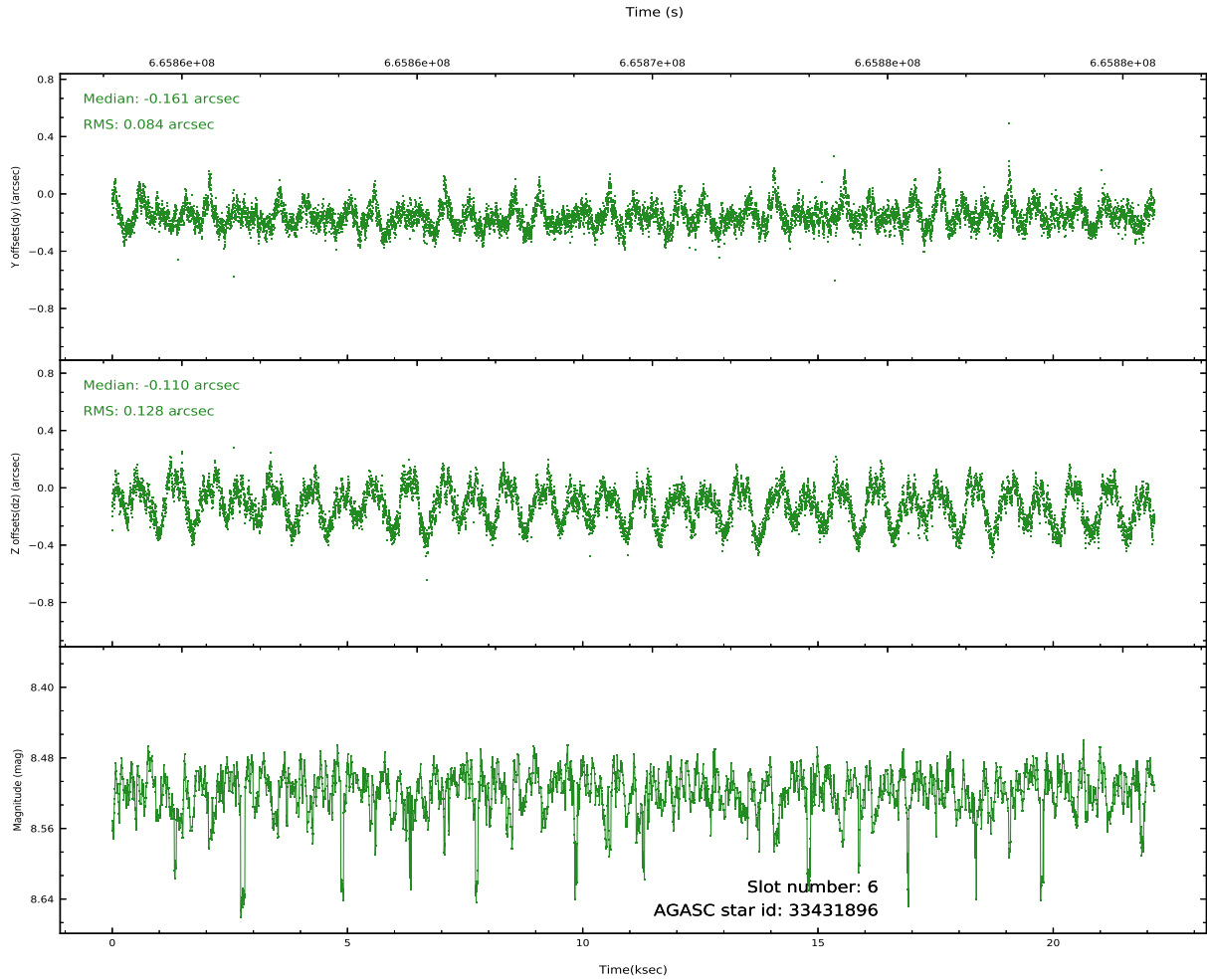
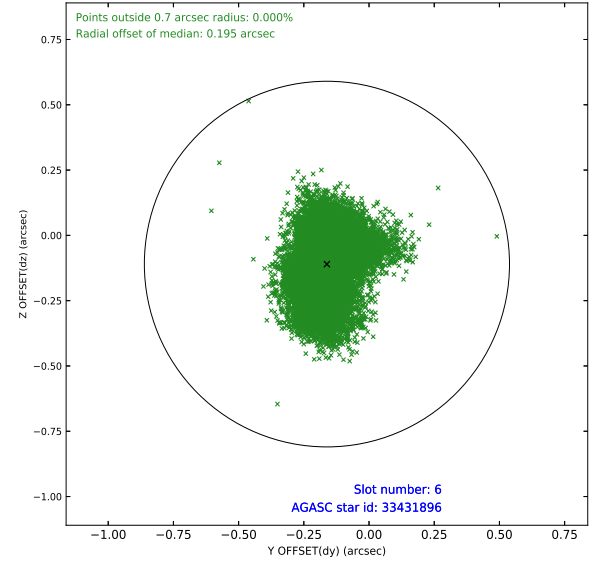
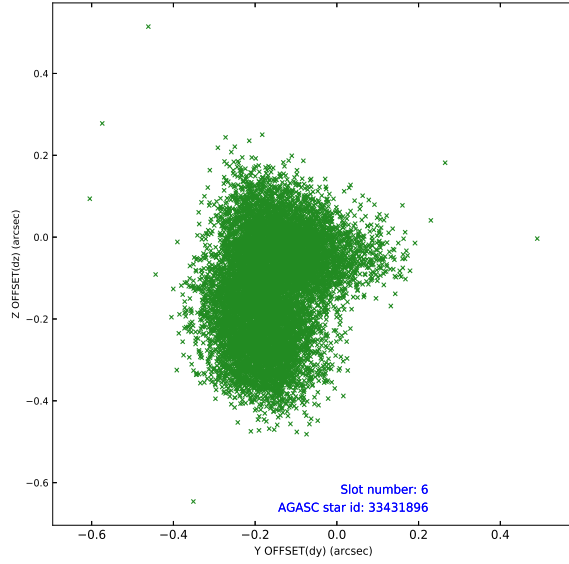
2.4.3 Slot 5



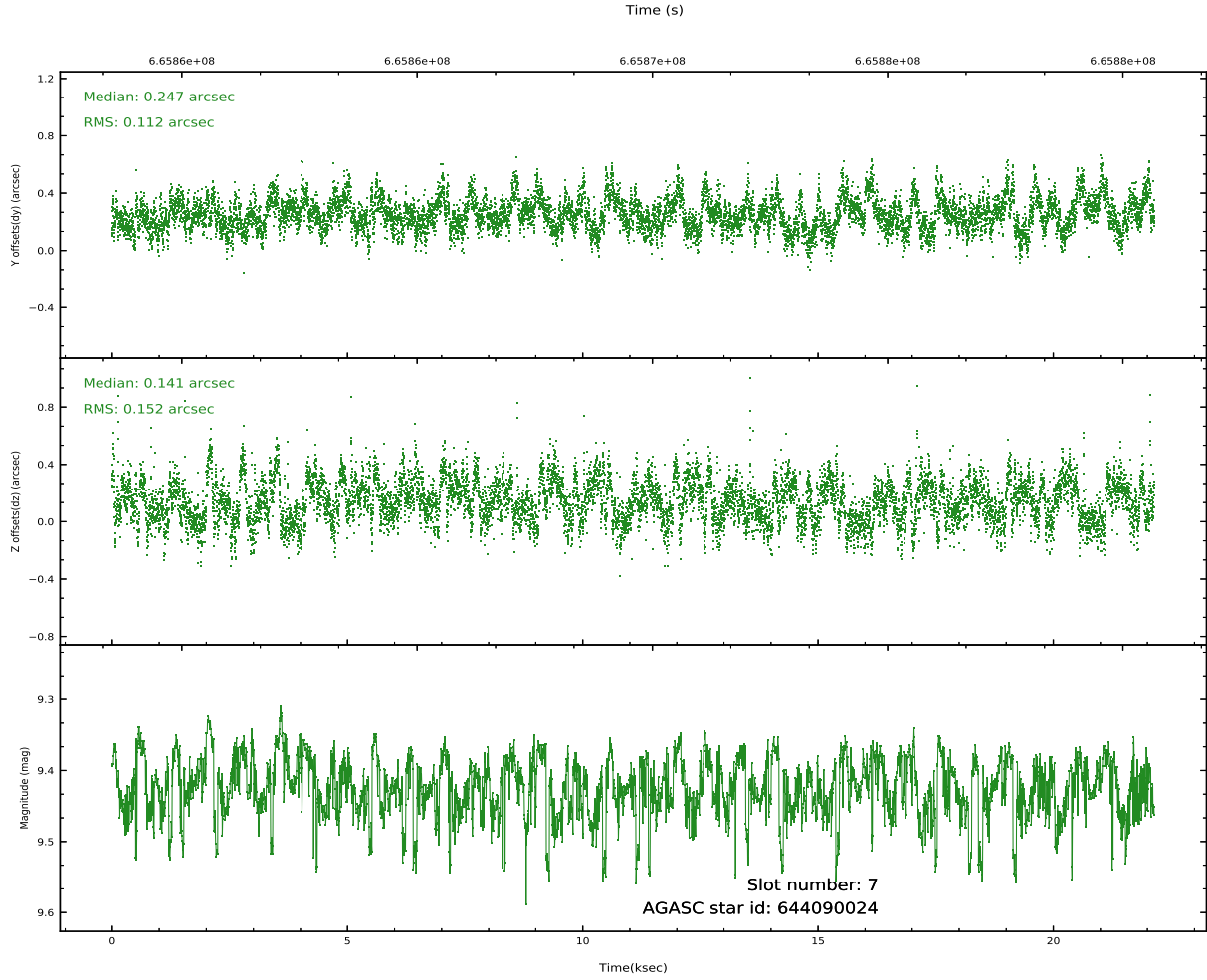
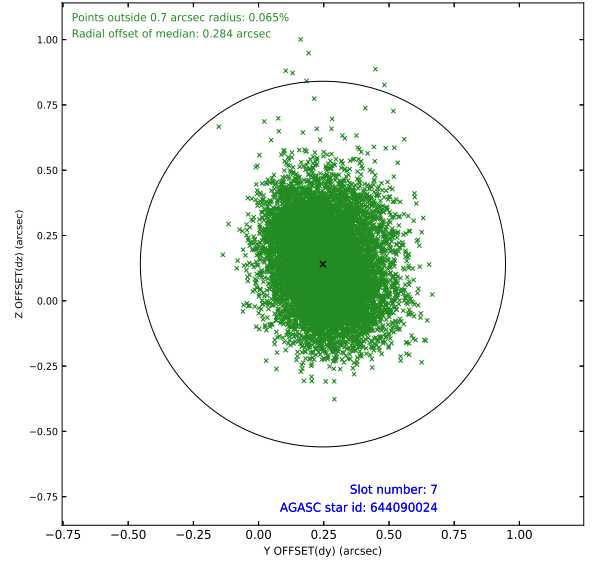
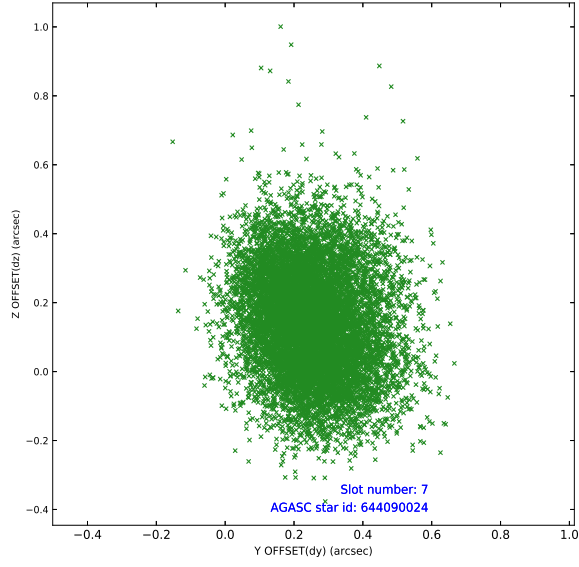
Time (s)



2.4.4 Slot 6

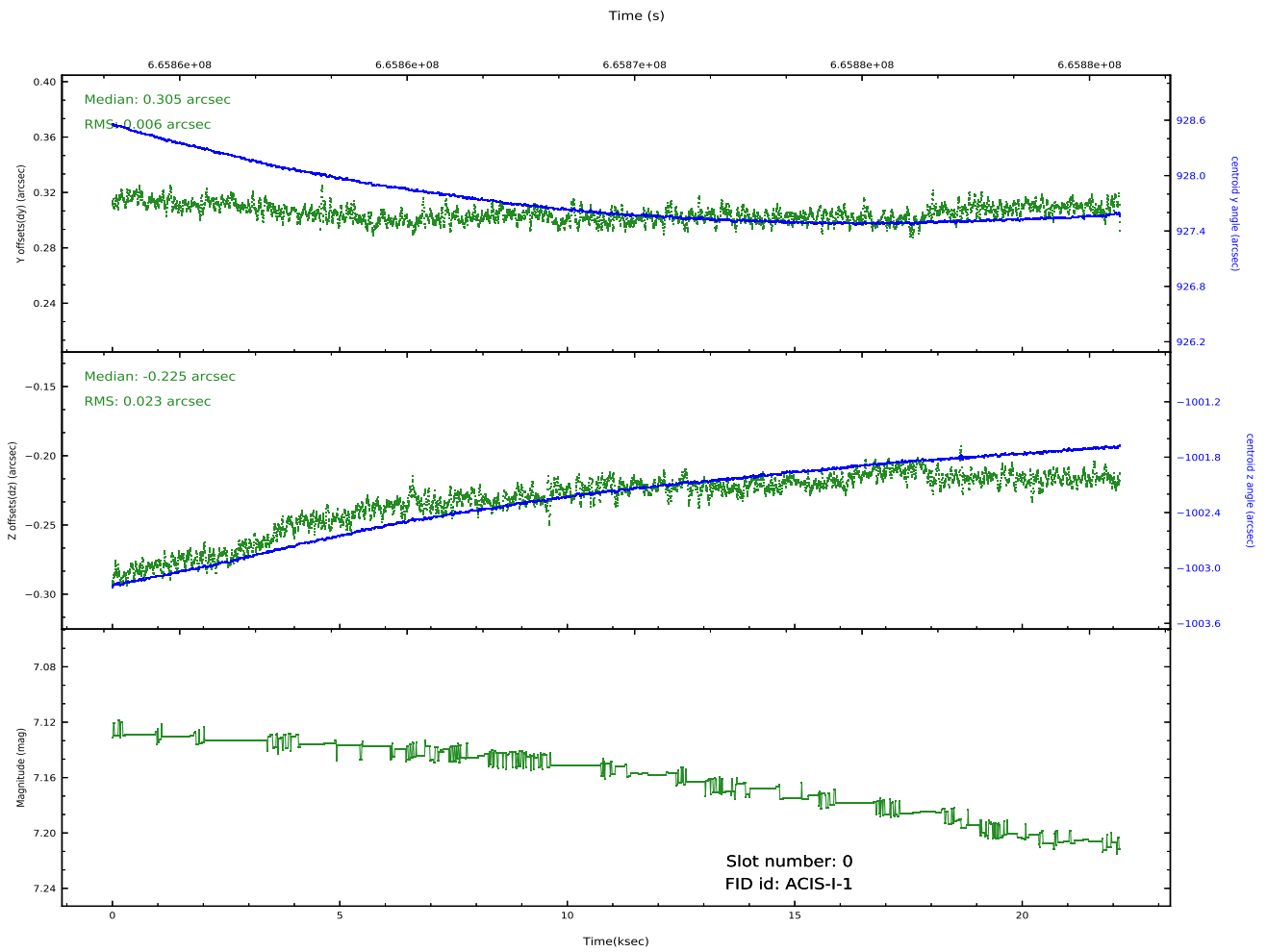
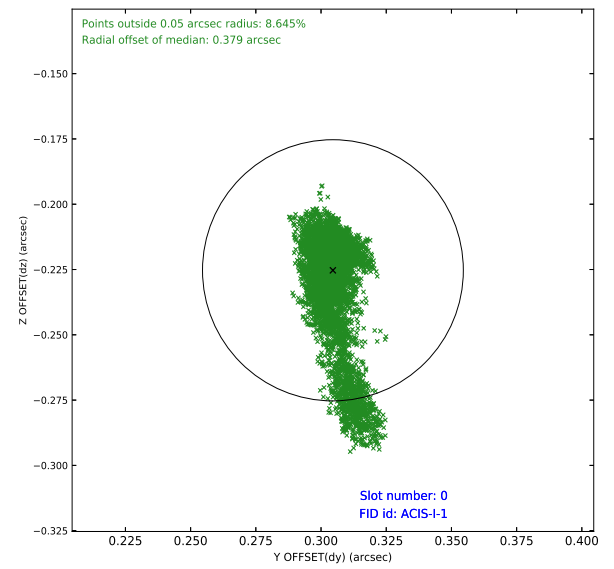
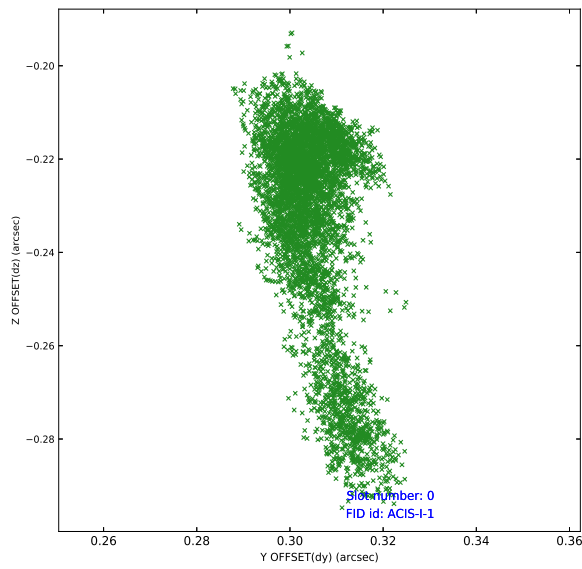


2.4.5 Slot 7

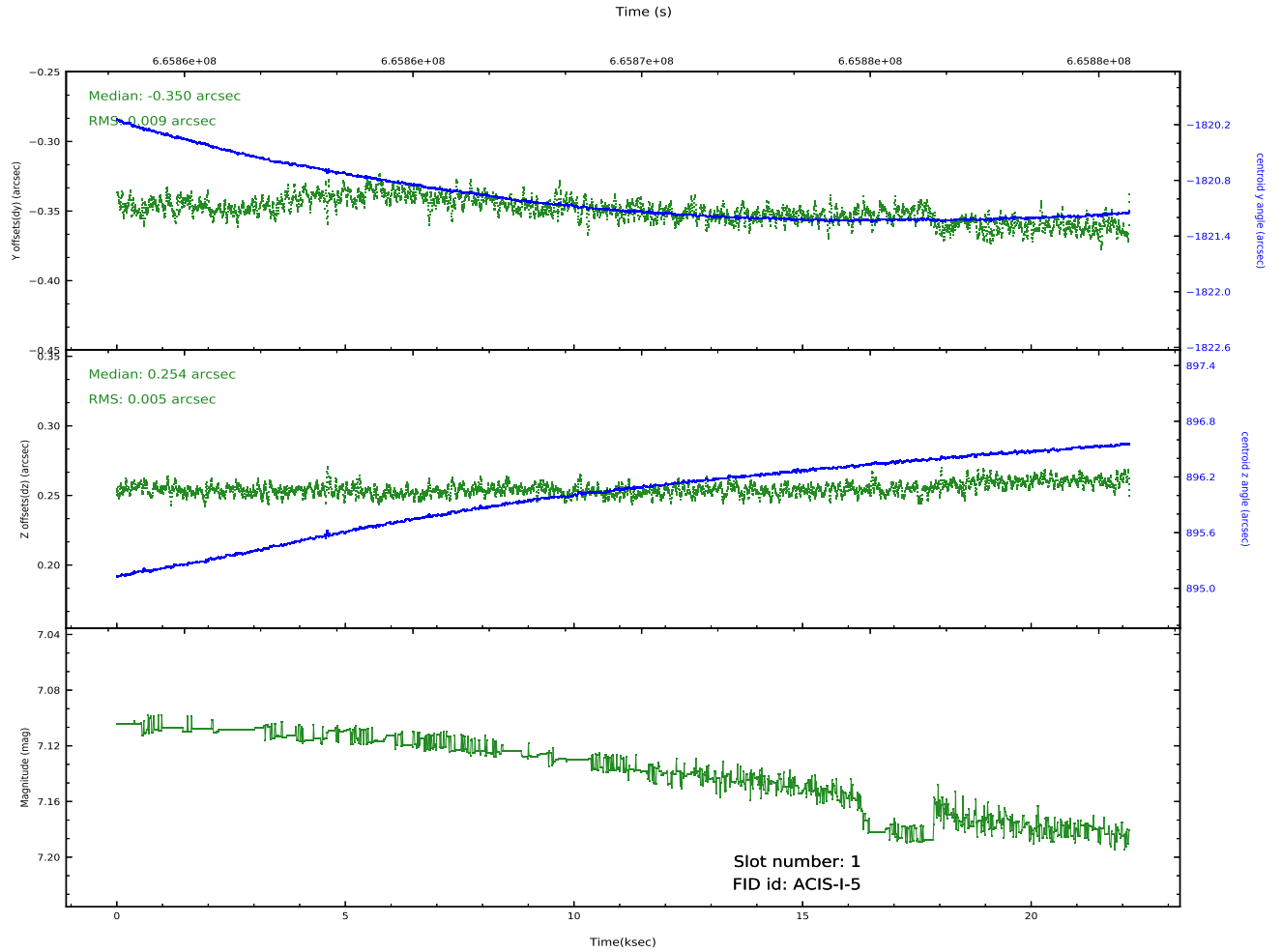
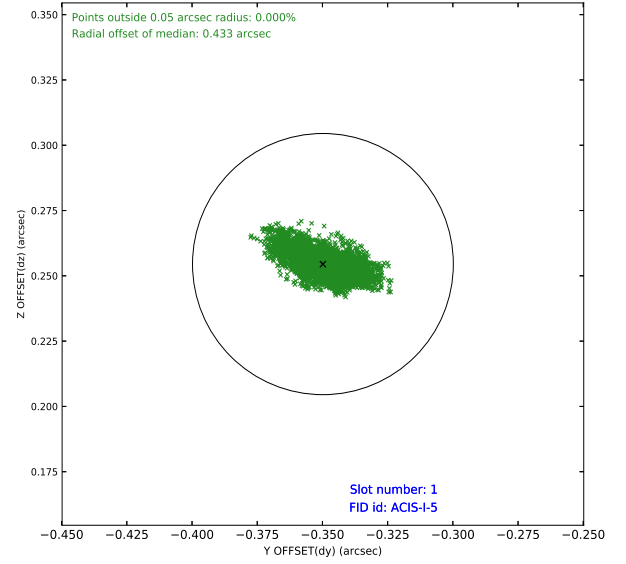
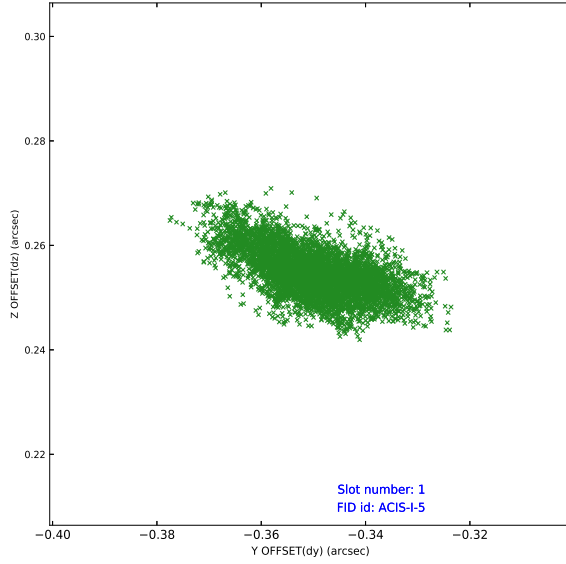


2.5 FID Slots

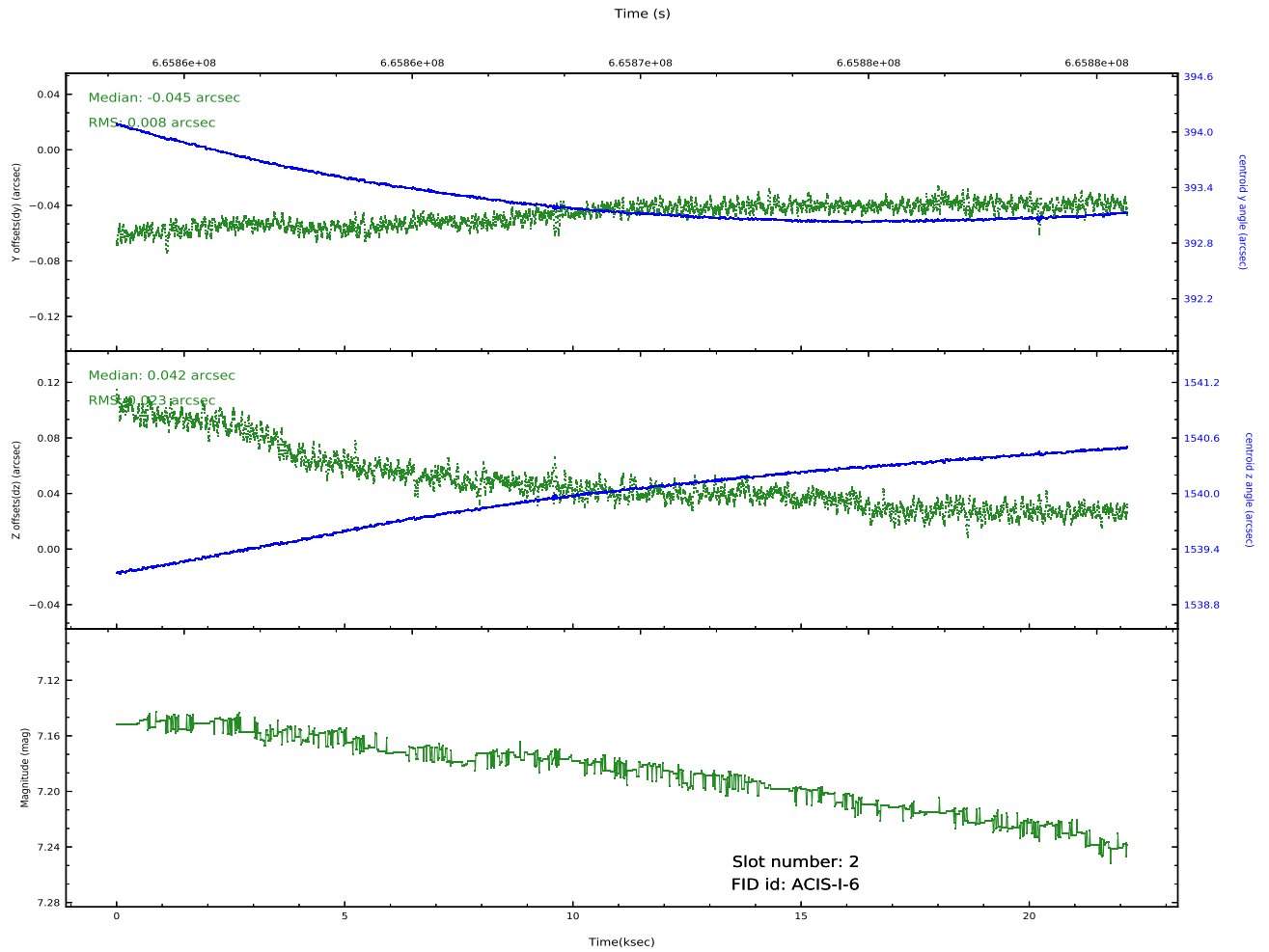
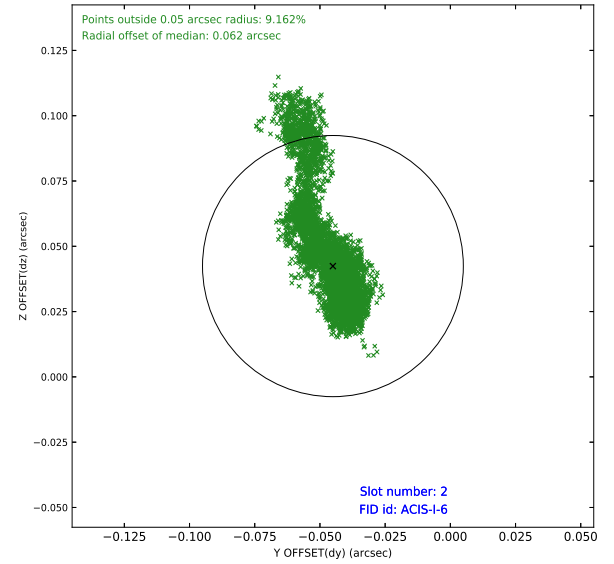
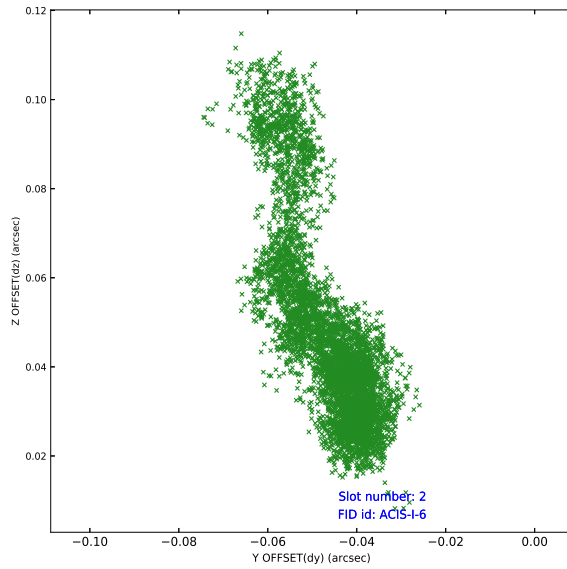
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.075059099078

A.2 Comments

Joint Proposal: HST. Optional chips S2 and S3 not included.