

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20442 - L2 Version 2
Chandra X-Ray Center

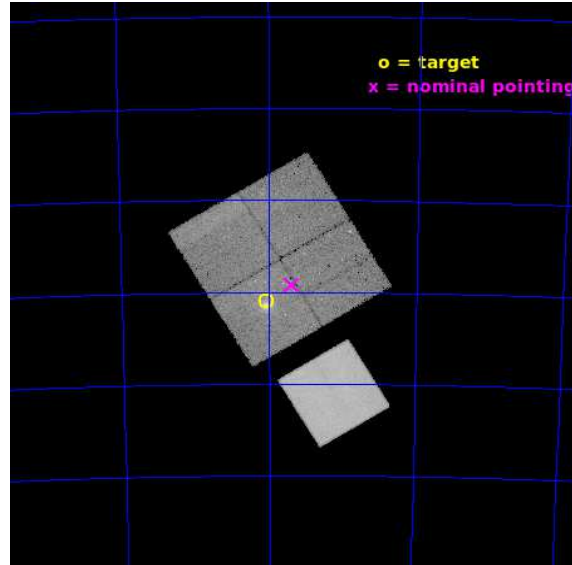
L2 Processing Date : Oct 28 2020

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1 Front

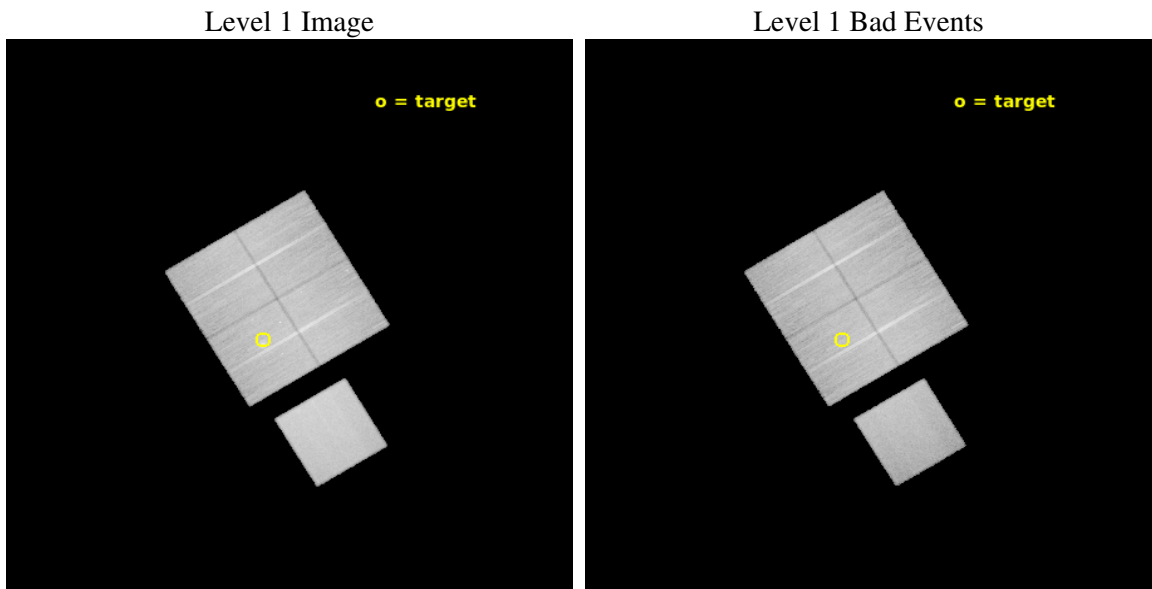
seq_num	703547	Sequence number
obs_id	20442	Observation id
title	Does the Brightest Strongly Lensed Galaxy Contain An AGN?	Proposal
observer	Matthew Bayliss	Principal investigator
object	PSZ1-ARC	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.518333	Observer's specified target RA [deg]
dec_targ	-78.183333	Observer's specified target Dec [deg]
ra_nom	237.30466046702	Nominal RA [deg]
dec_nom	-78.153555412155	Nominal Dec [deg]
roll_nom	148.81330208253	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40050.73798573	Sum of GTIs [s]
livetime	39527.445609022	Livetime [s]
ontime0	40053.755855799	Sum of GTIs [s]
ontime1	40047.514935493	Sum of GTIs [s]
ontime2	40050.696965575	Sum of GTIs [s]
ontime3	40050.73798573	Sum of GTIs [s]
ontime7	40053.920015812	Sum of GTIs [s]
l2events	283440	Number of level 2 events



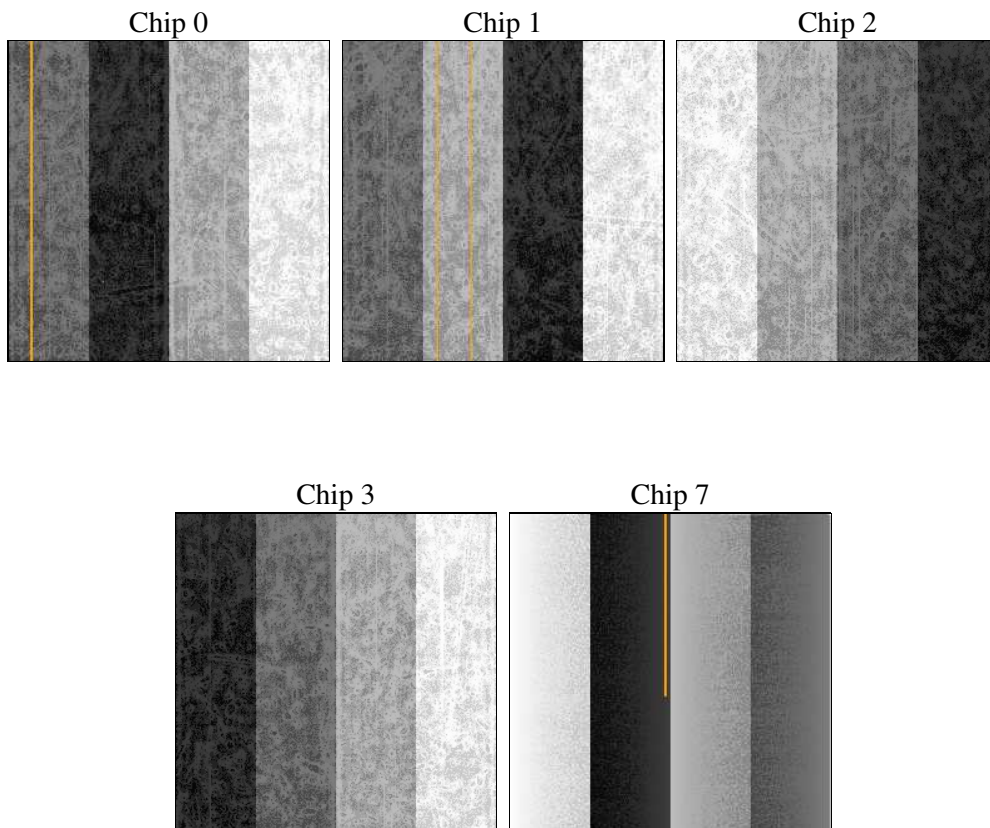
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	40050.73798573	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	40053.755855799	Sum of GTIs [s]
date	2020-10-28T16:43:31	Date and time of file creation	ontime1	40047.514935493	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	40050.696965575	Sum of GTIs [s]
			ontime3	40050.73798573	Sum of GTIs [s]
			ontime7	40053.920015812	Sum of GTIs [s]
			l1events	1542458	Number of level 1 events

2.1.4 Events

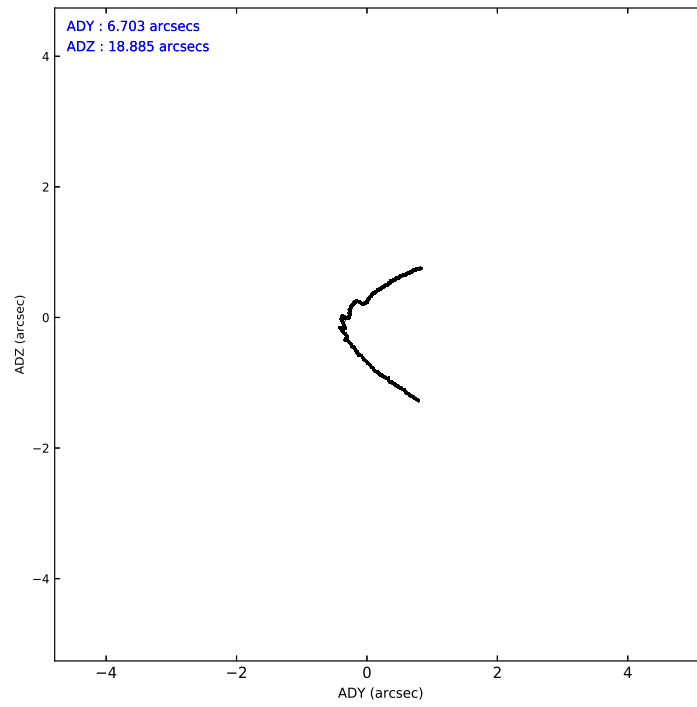
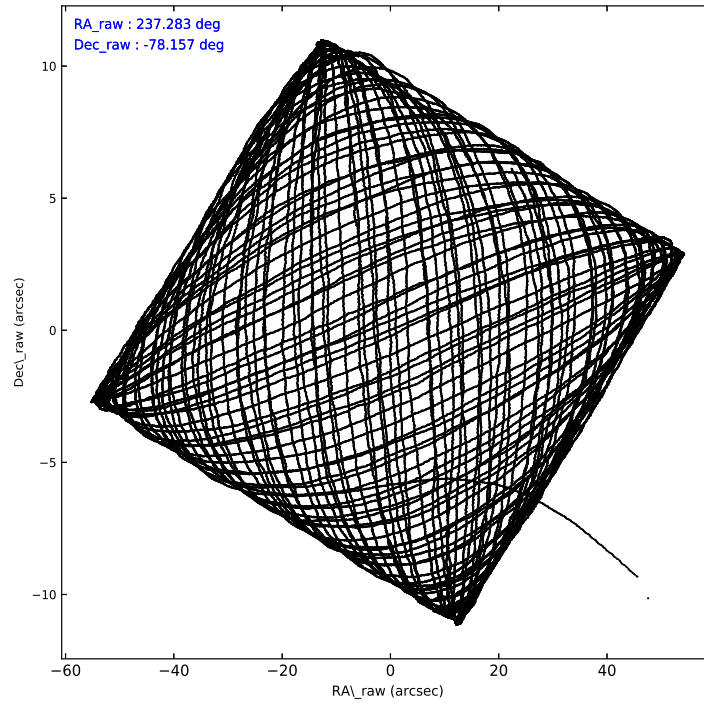
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	274365	278451	304838	299153	385651
rejected events	240735	241440	271304	259037	217962
rejected %	87%	86%	88%	86%	56%

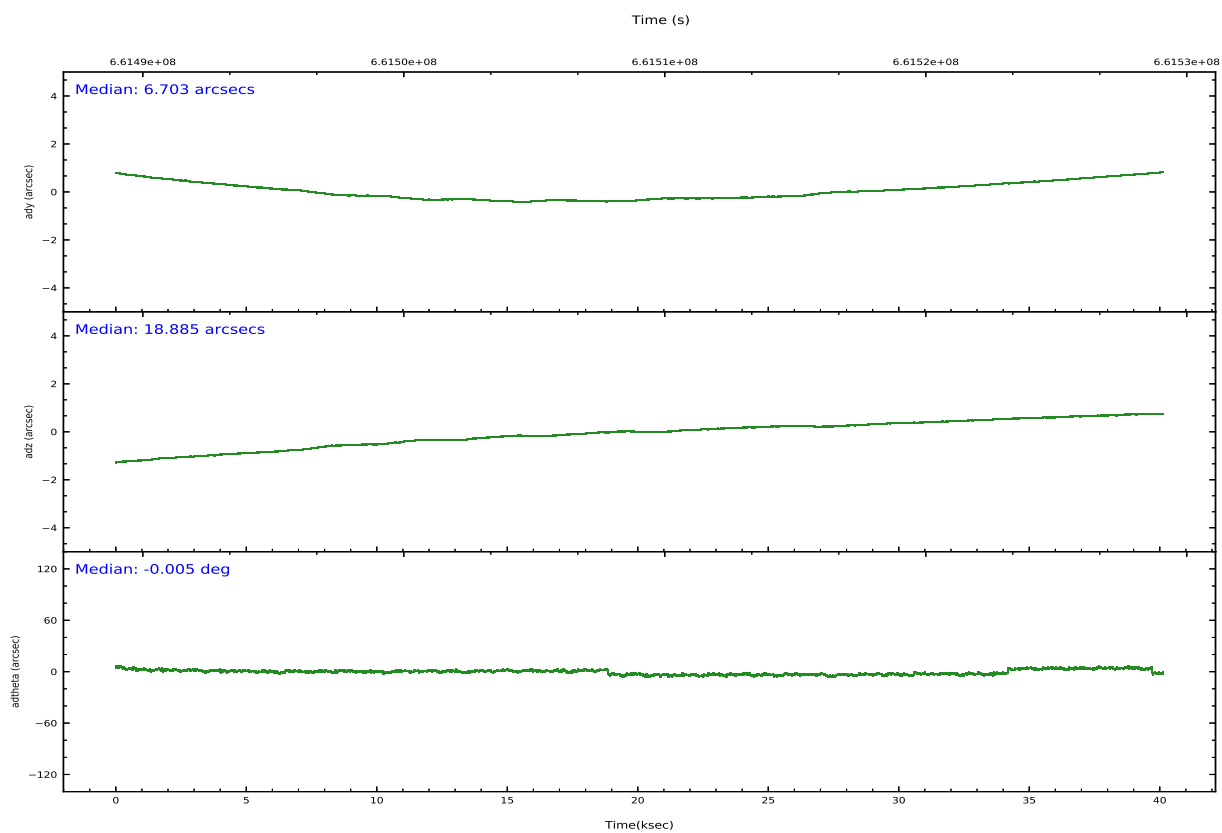
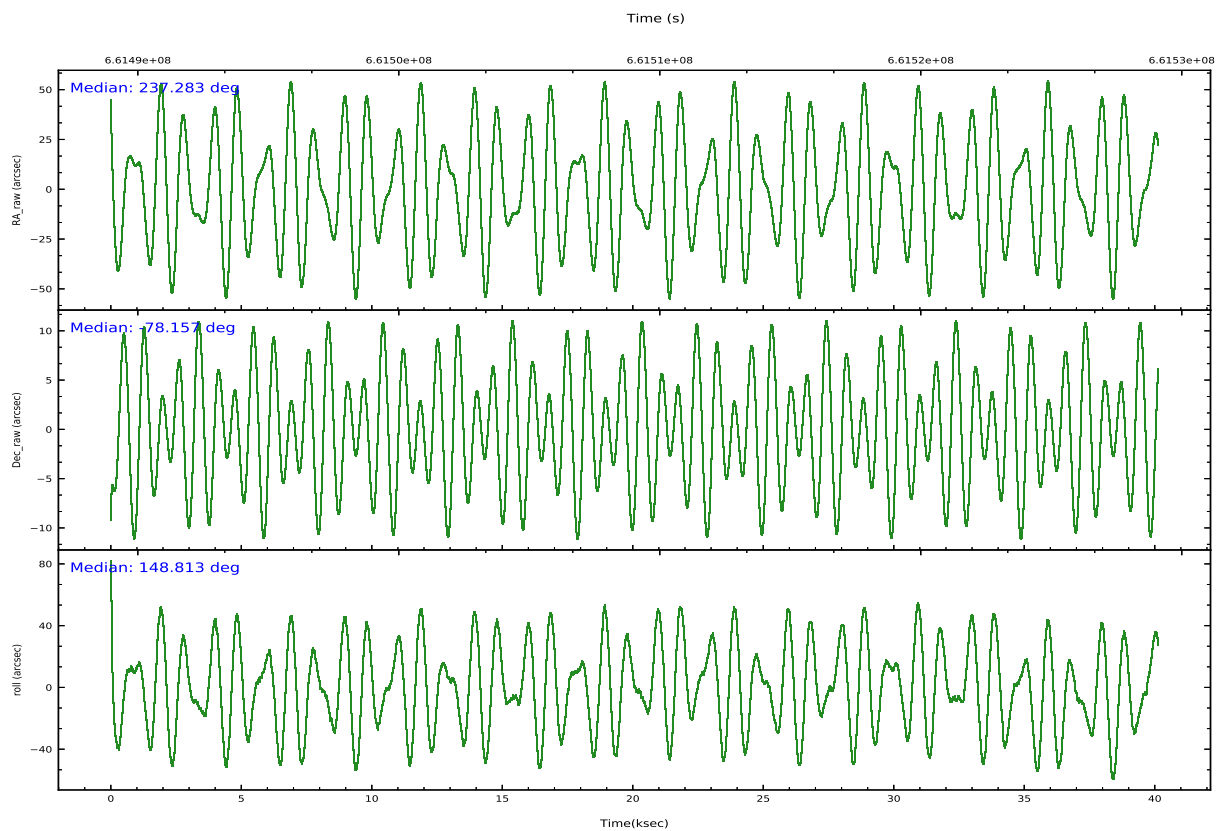
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	11497	12098	11998	18265	14191
	4%	4%	3%	6%	3%
grade 1 events	147	128	191	242	577
	0%	0%	0%	0%	0%
grade 2 events	8658	9693	8455	7871	36074
	3%	3%	2%	2%	9%
grade 3 events	3483	3548	3232	3656	13392
	1%	1%	1%	1%	3%
grade 4 events	3189	3433	3306	3543	13289
	1%	1%	1%	1%	3%
grade 5 events	12926	13389	12148	14432	38623
	4%	4%	3%	4%	10%
grade 6 events	6809	8241	6544	6783	90756
	2%	2%	2%	2%	23%
grade 7 events	227656	227921	258964	244361	178749
	82%	81%	84%	81%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	237.416979	237.30466046702	CCD I2 on	Y	Y
[deg] Pointing Dec	-78.157567	-78.153555412155	CCD I3 on	Y	Y
[deg] Pointing Roll	148.736091	148.81330208253	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	Y
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	661489095.184000	661487473.76554	CCD S5 on	N	N
Observation start date	2018-12-18T02:57:06	2018-12-18T02:31:13	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	661529095.184000	661530282.89309	On-chip summing requested	N	N
Observation end date	2018-12-18T14:03:46	2018-12-18T14:24:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



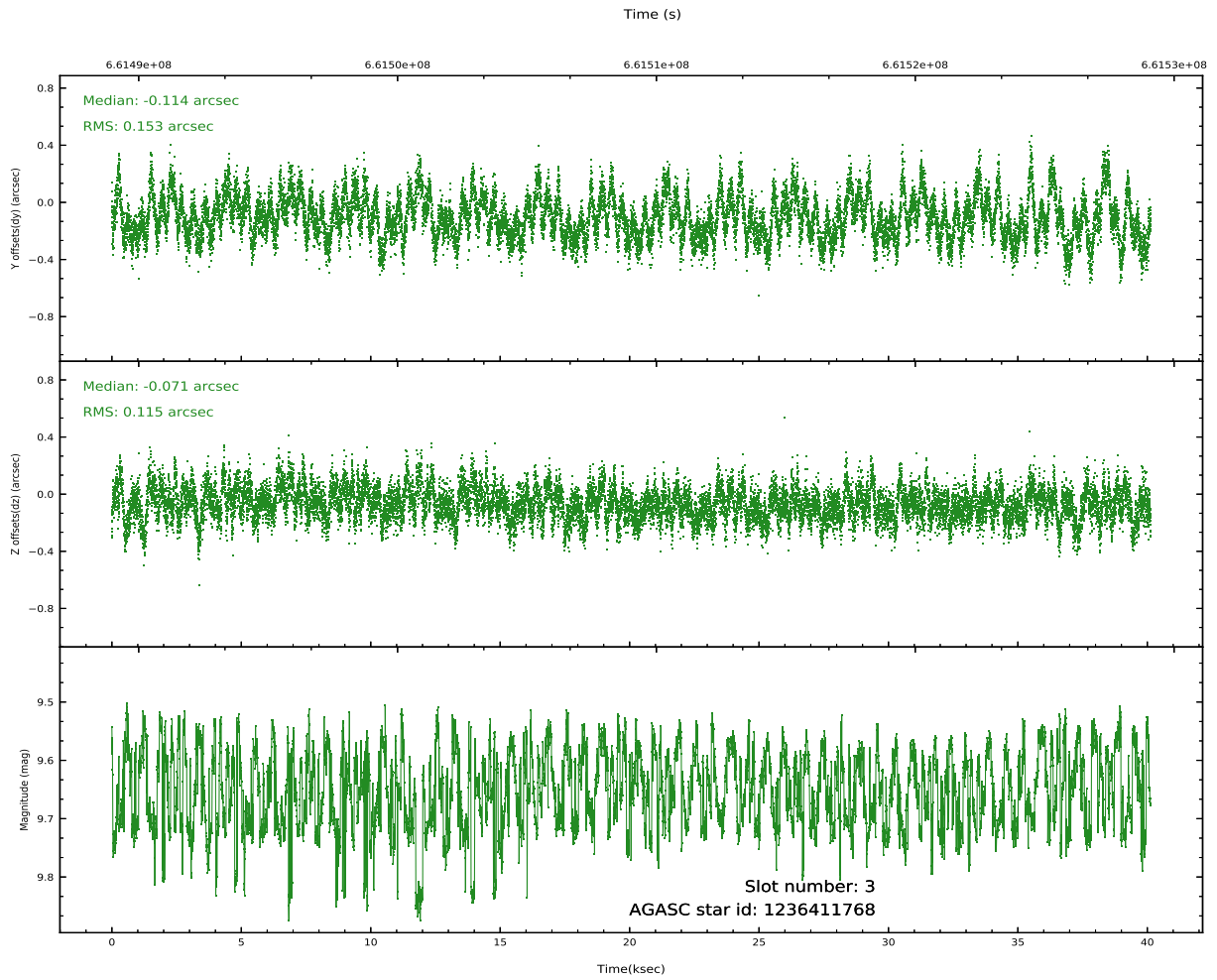
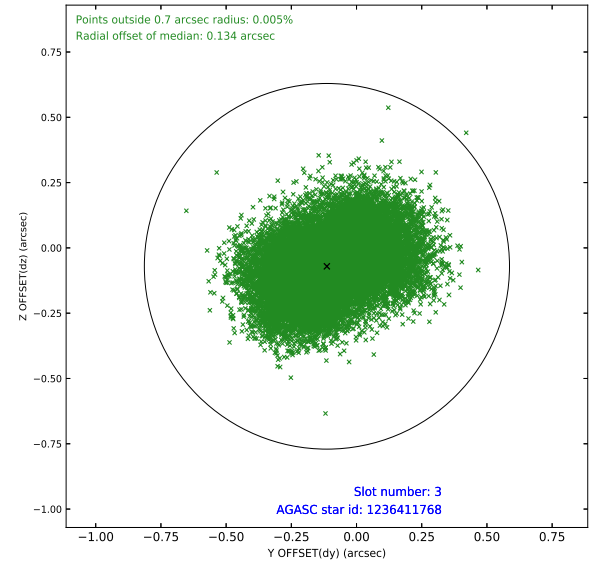
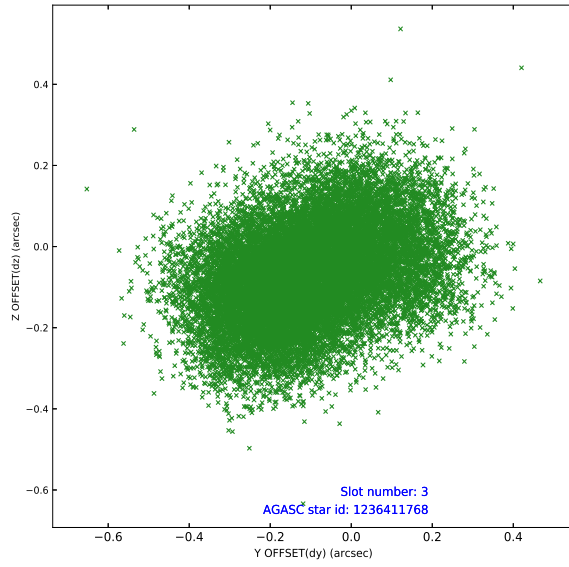


Slot Statistics

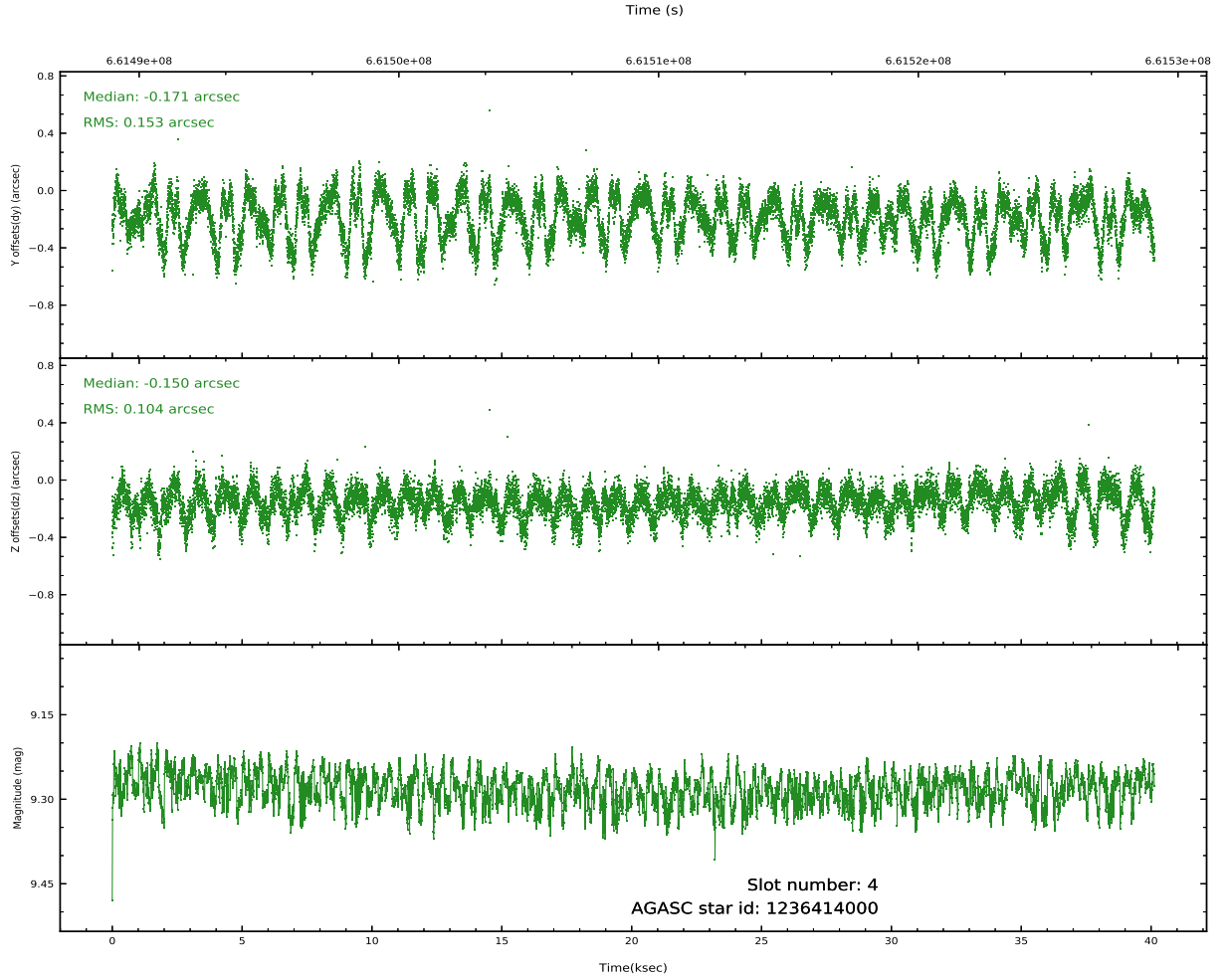
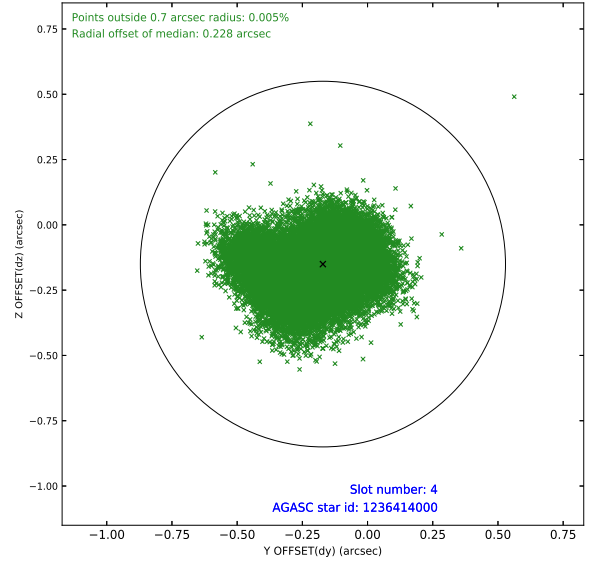
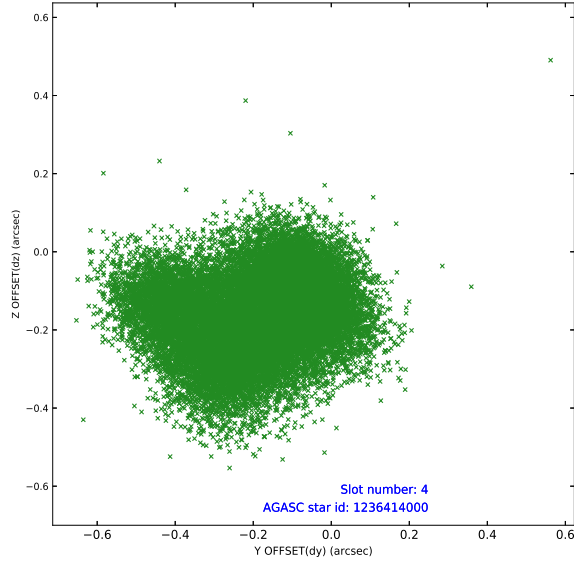
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.10	9788	1.000	0.036	-0.153	0.020	0.028	0.000000	0.000000	932.88	-1001
1	FID		ACIS-I-4	7.05	9787	1.000	-0.108	-0.002	0.040	0.055	0.000000	0.000000	2152.25	899
2	FID		ACIS-I-6	7.12	9788	1.000	-0.034	0.215	0.040	0.062	0.000000	0.000000	398.60	1540
3	GUIDE	used	1236411768	9.65	19417	1.000	-0.114	-0.071	0.204	0.333	233.371107	-78.329131	2143.50	2143
4	GUIDE	used	1236414000	9.28	19544	1.000	-0.171	-0.150	0.198	0.310	236.935488	-77.995635	610.47	-309
5	GUIDE	used	1236415592	8.42	19565	1.000	0.206	0.124	0.169	0.255	238.469617	-78.158696	-669.55	-393
6	GUIDE	used	1236420536	9.31	19535	1.000	-0.017	0.007	0.197	0.409	237.519080	-78.692569	-1060.92	1609
7	GUIDE	used	1238110760	9.48	19548	1.000	0.135	0.094	0.208	0.315	240.807410	-78.111142	-2098.68	-1384

2.4 Star Slots

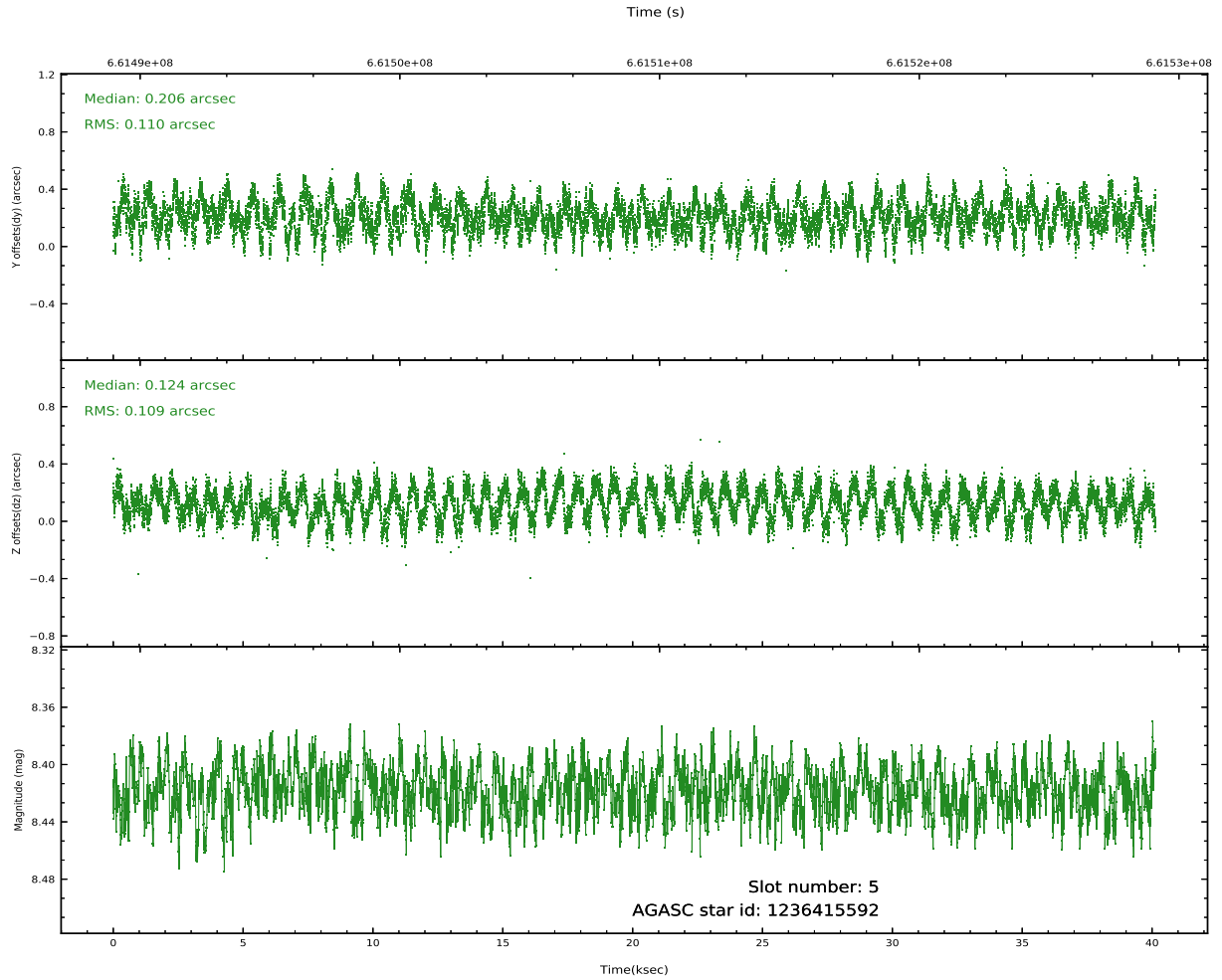
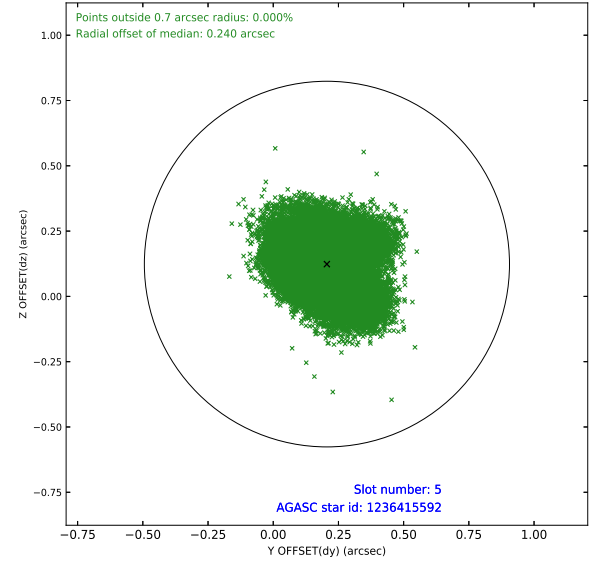
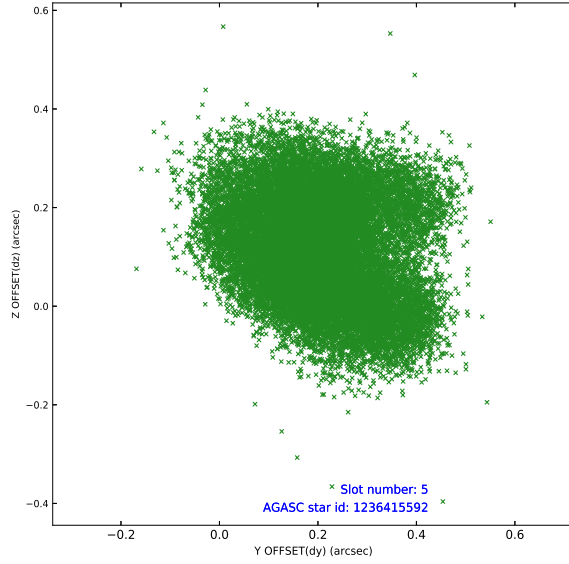
2.4.1 Slot 3



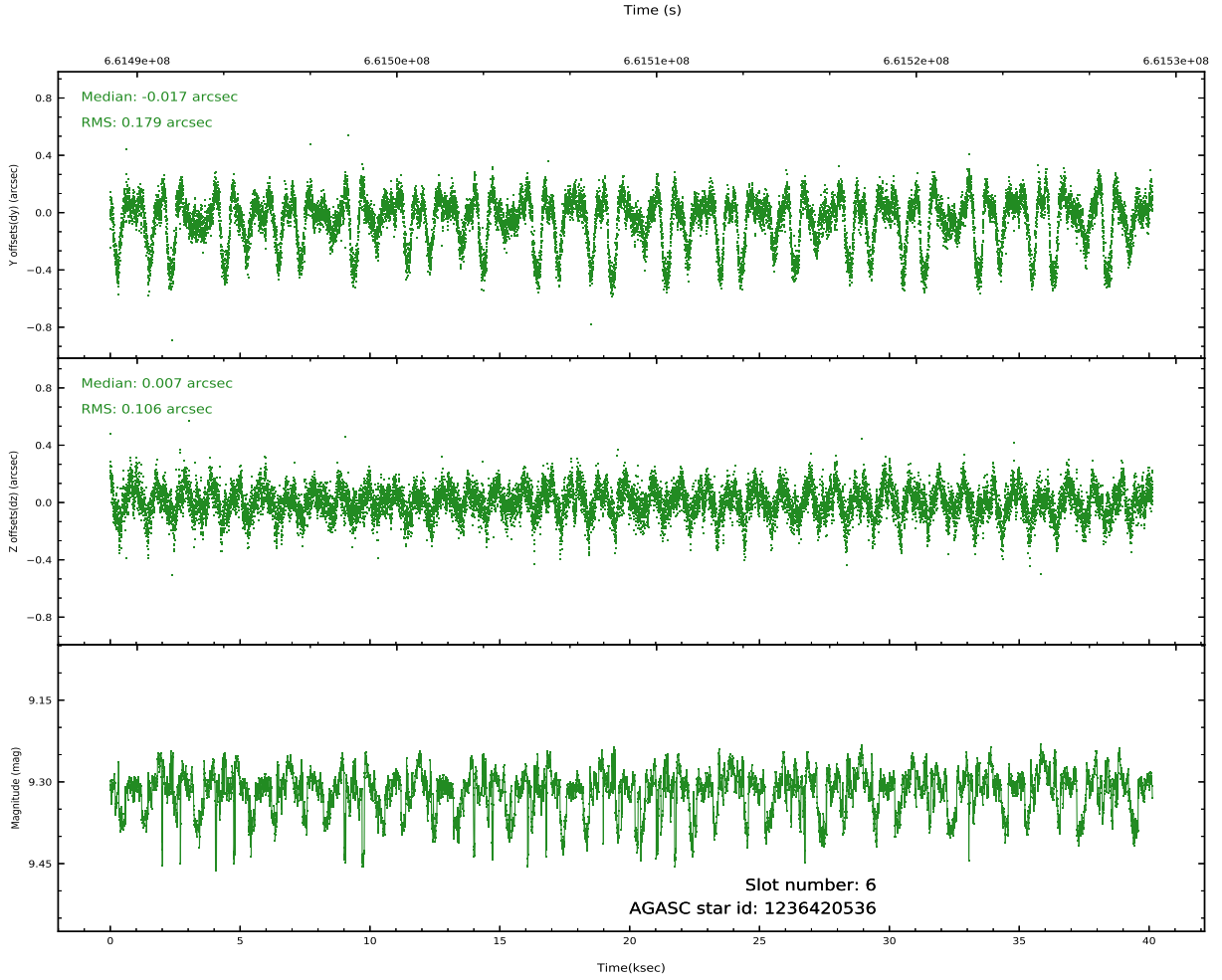
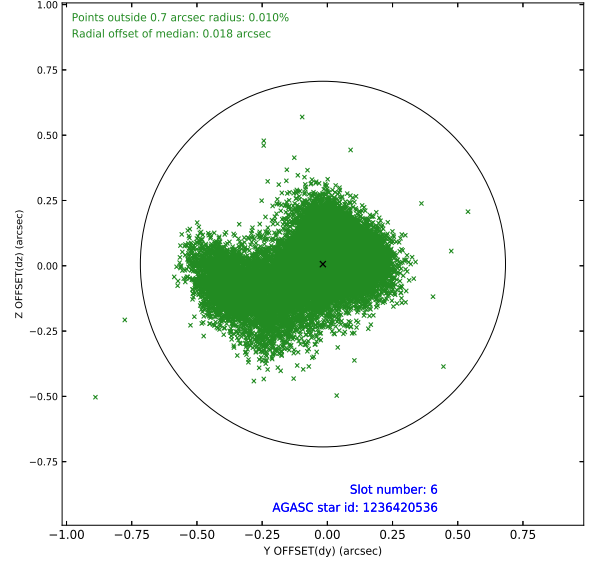
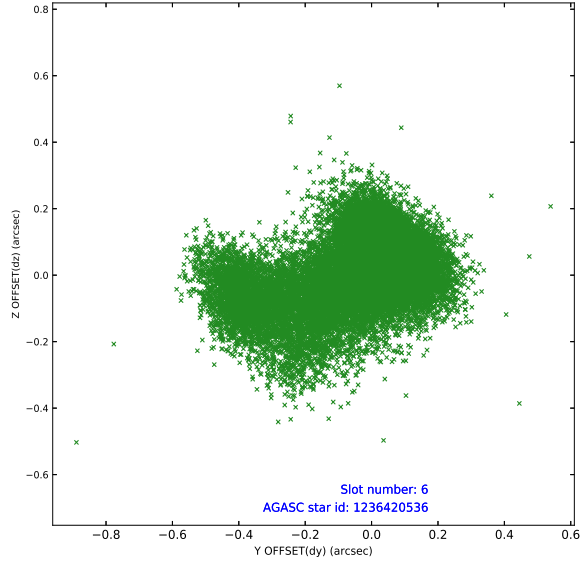
2.4.2 Slot 4



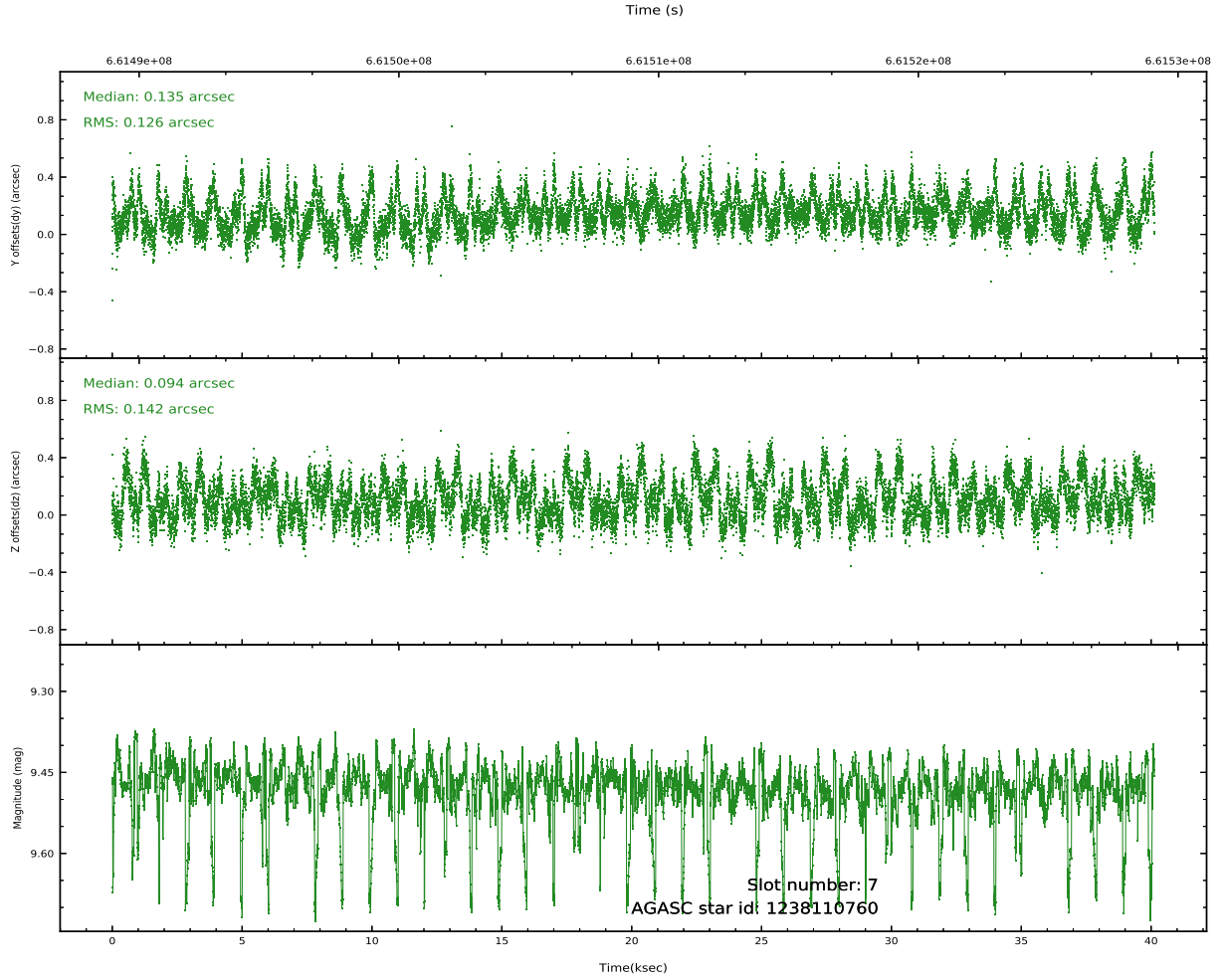
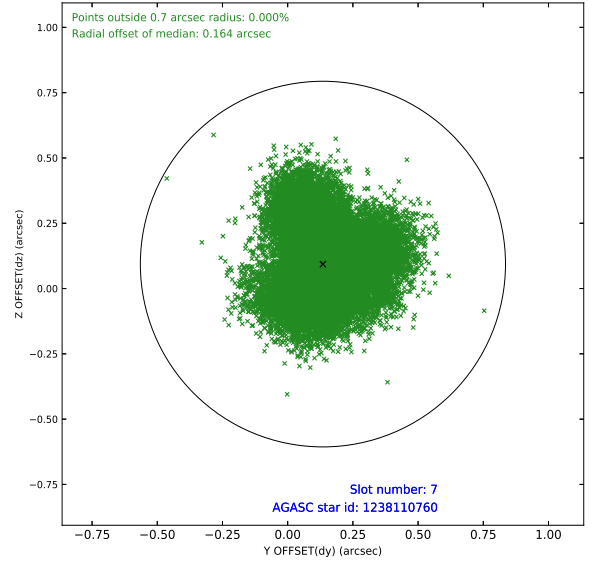
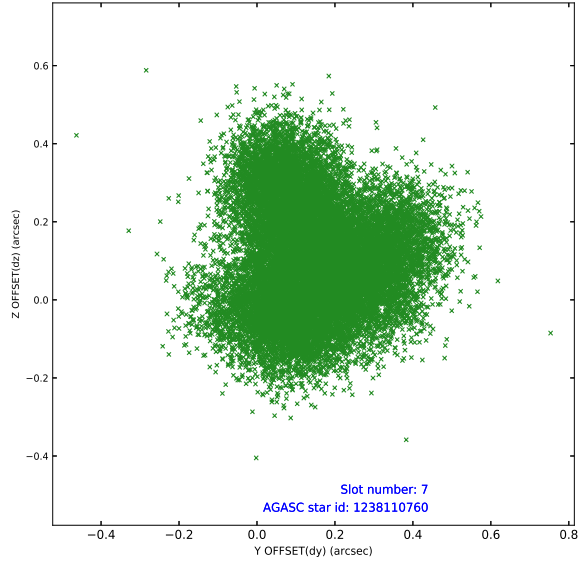
2.4.3 Slot 5



2.4.4 Slot 6

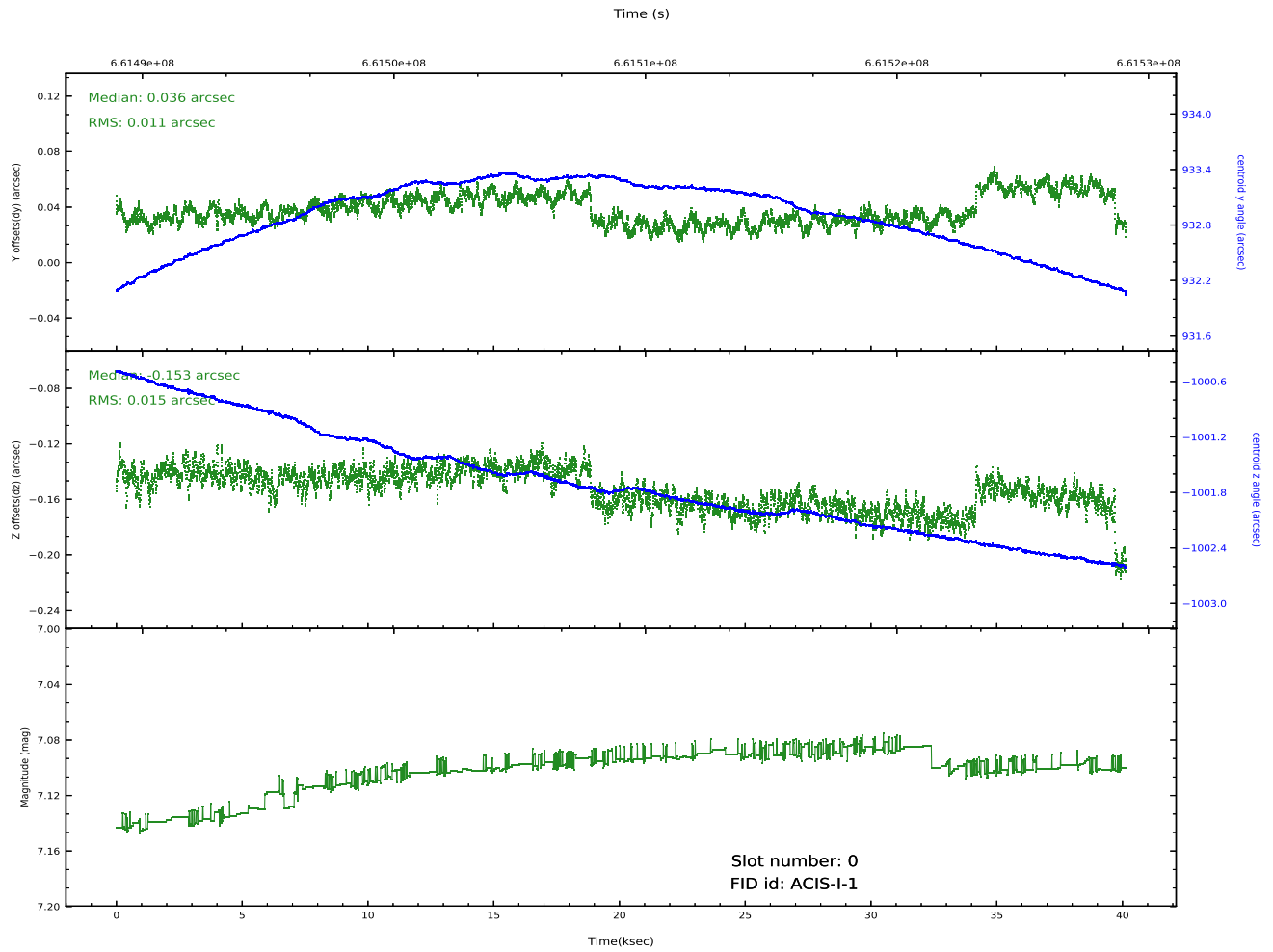
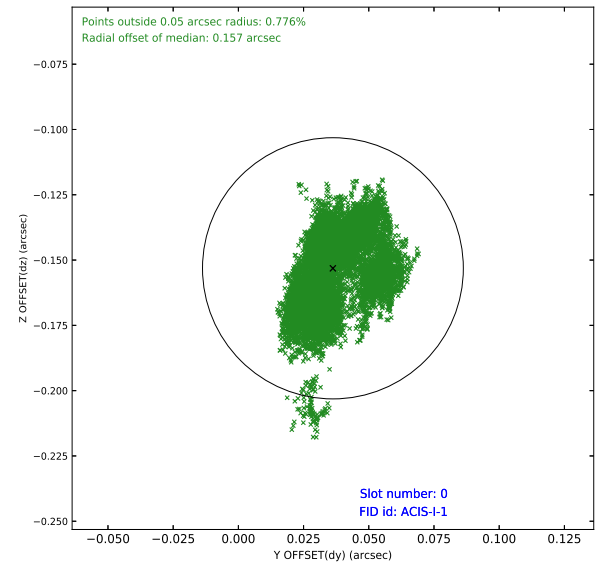
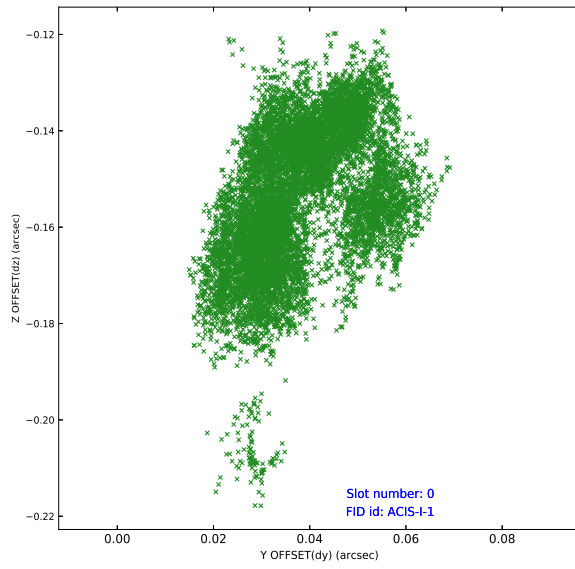


2.4.5 Slot 7

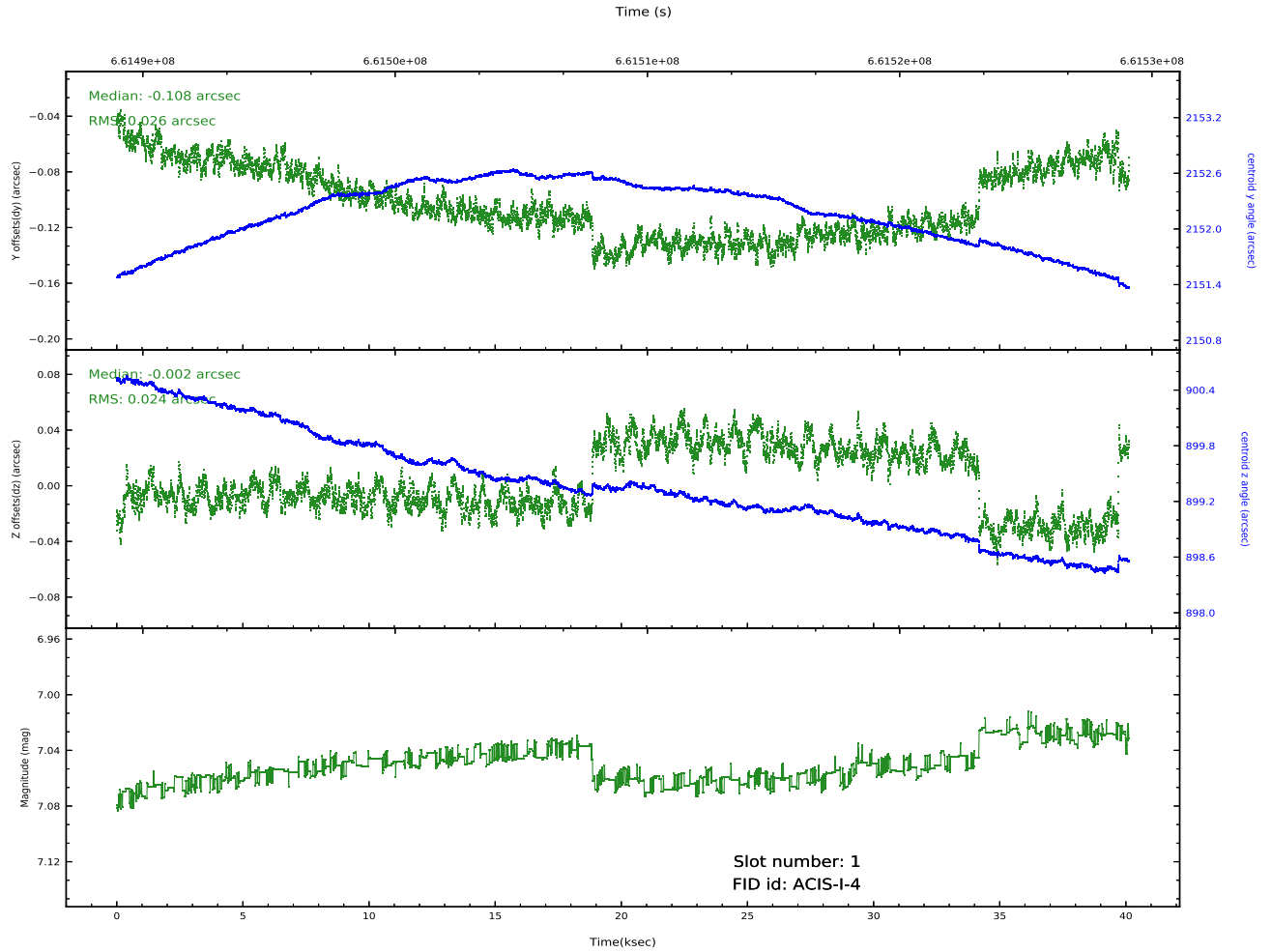
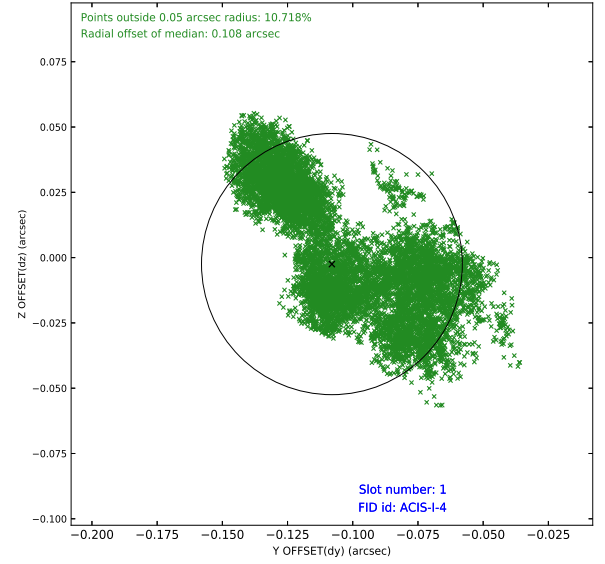
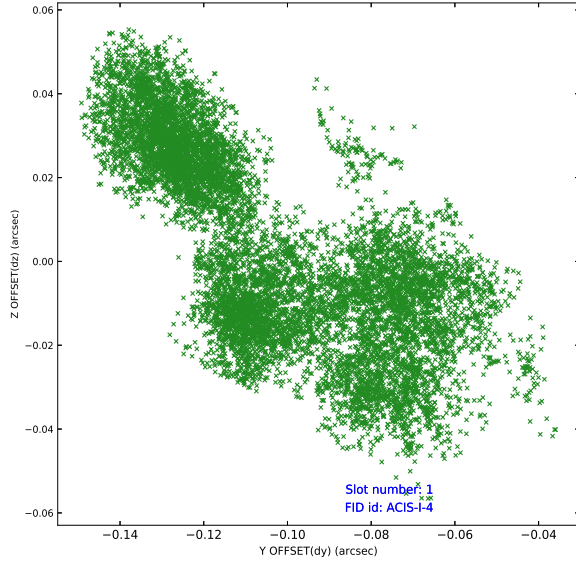


2.5 FID Slots

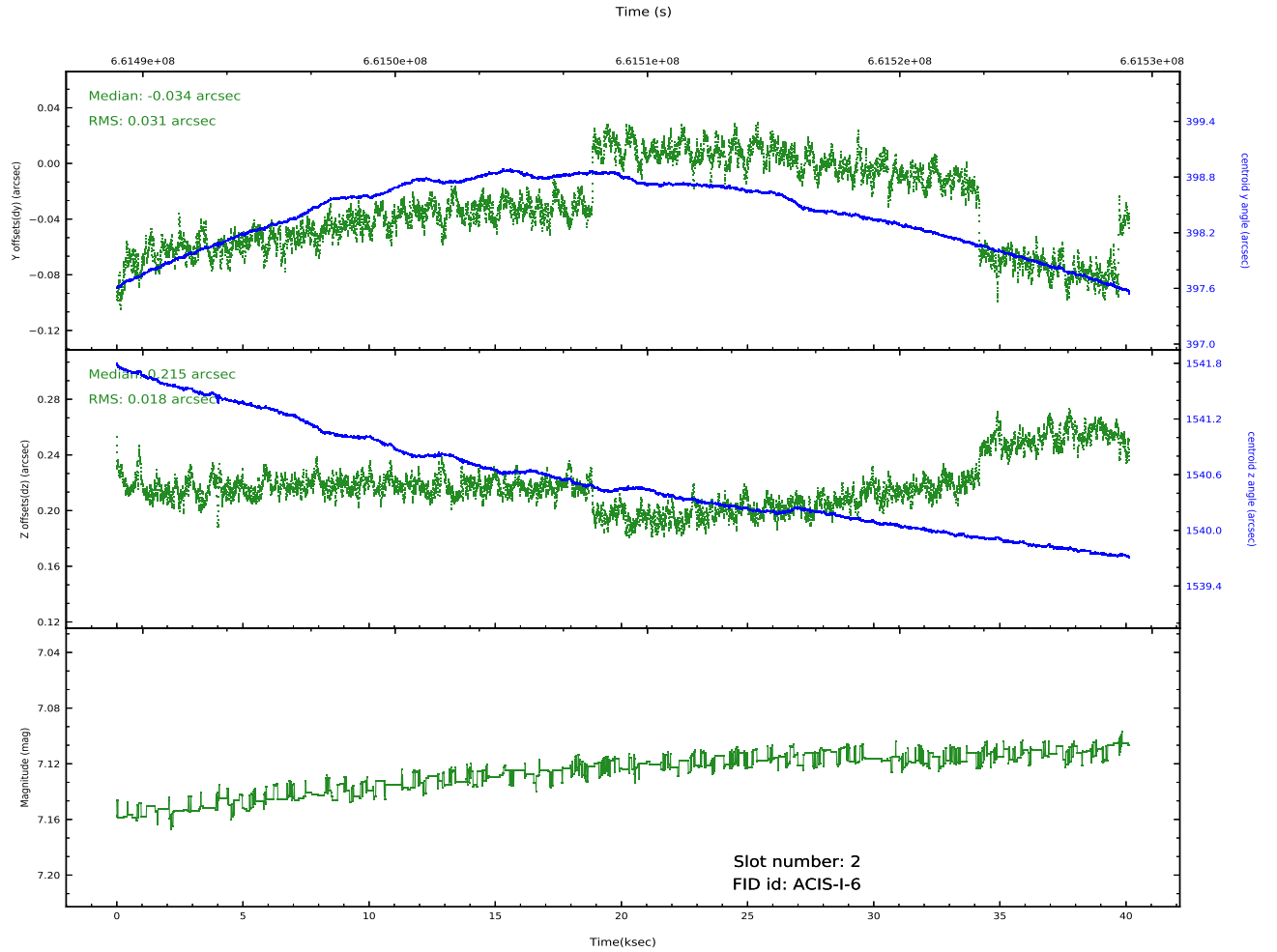
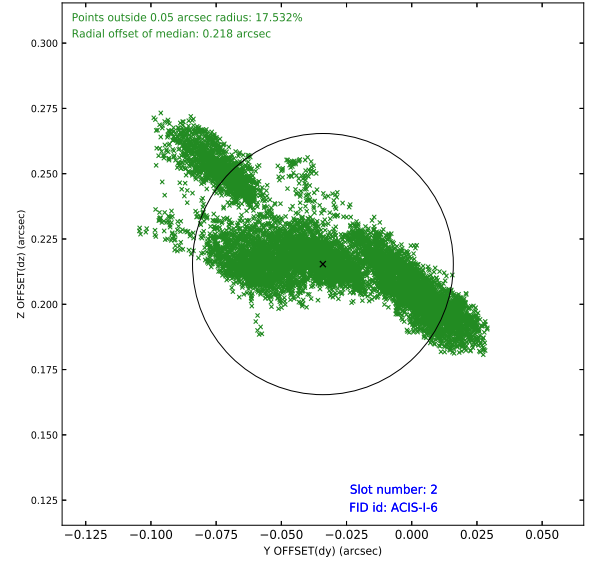
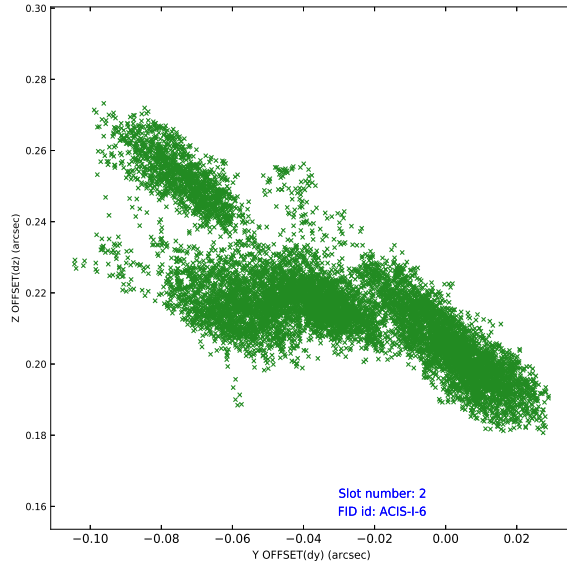
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	40.050737990499

A.2 Comments

Joint Proposal: HST. Optional chip S2 not included.