

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 24656 - L2 Version 1
Chandra X-Ray Center

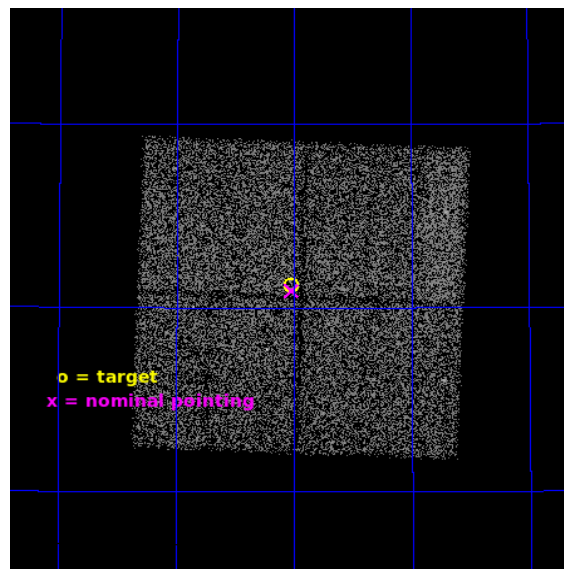
L2 Processing Date : Sep 22 2020

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1 Front

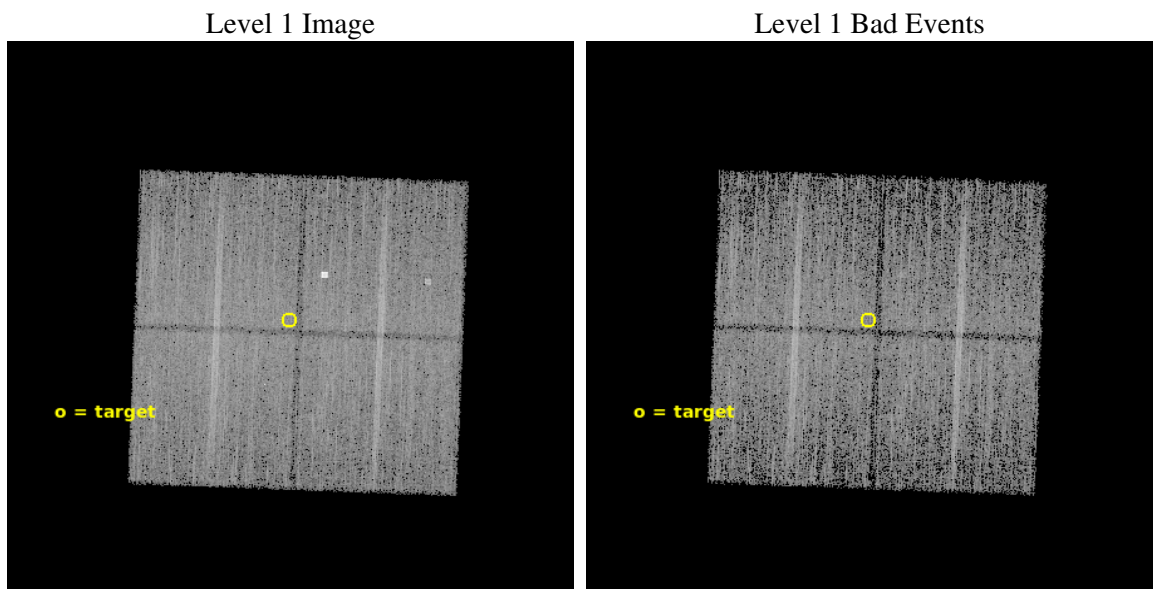
seq_num	901417	Sequence number
obs_id	24656	Observation id
title	Coordinated Ultra-Deep X-ray Monitoring of the JWST-NEP Time Domain Field	Proposal title
observer	Walter Maksym	Principal investigator
object	JWST-DTDF-8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.755833	Observer's specified target RA [deg]
dec_targ	65.854417	Observer's specified target Dec [deg]
ra_nom	260.75474438442	Nominal RA [deg]
dec_nom	65.849001853578	Nominal Dec [deg]
roll_nom	272.18968326579	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14229.000109553	Sum of GTIs [s]
livetime	14043.087747885	Livetime [s]
ontime0	14229.000109553	Sum of GTIs [s]
ontime1	14225.859119296	Sum of GTIs [s]
ontime2	14225.859099269	Sum of GTIs [s]
ontime3	14229.000109553	Sum of GTIs [s]
l2events	41425	Number of level 2 events



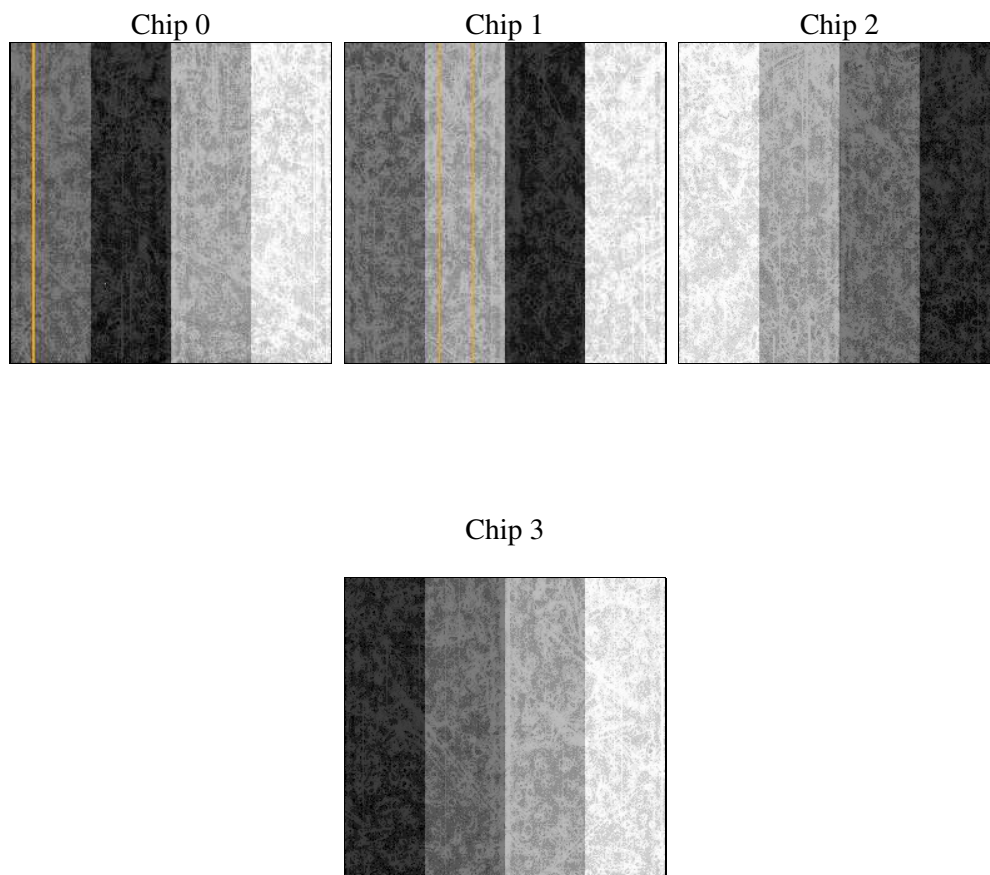
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14320.792000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14229.000109553	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	14229.000109553	Sum of GTIs [s]
date	2020-09-23T02:10:15	Date and time of file creation	ontime1	14225.859119296	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	14225.859099269	Sum of GTIs [s]
			ontime3	14229.000109553	Sum of GTIs [s]
			l1events	435746	Number of level 1 events

2.1.4 Events

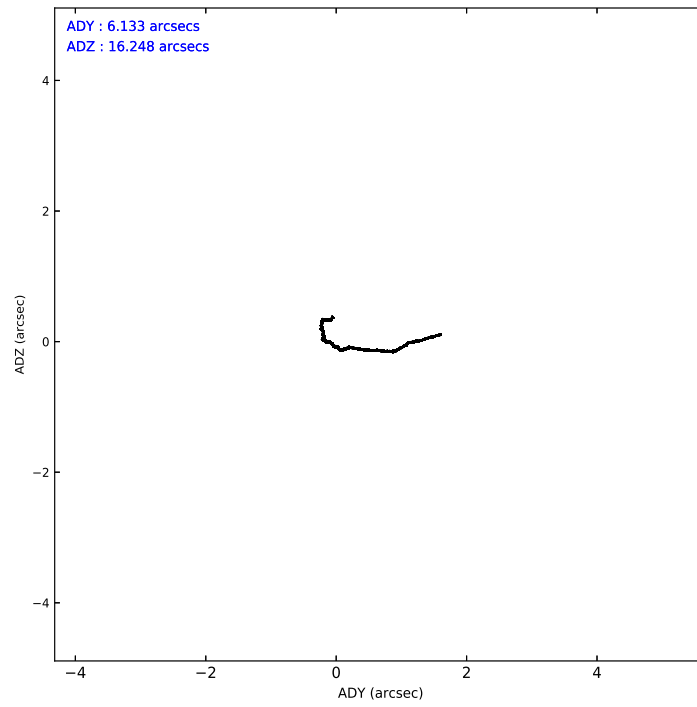
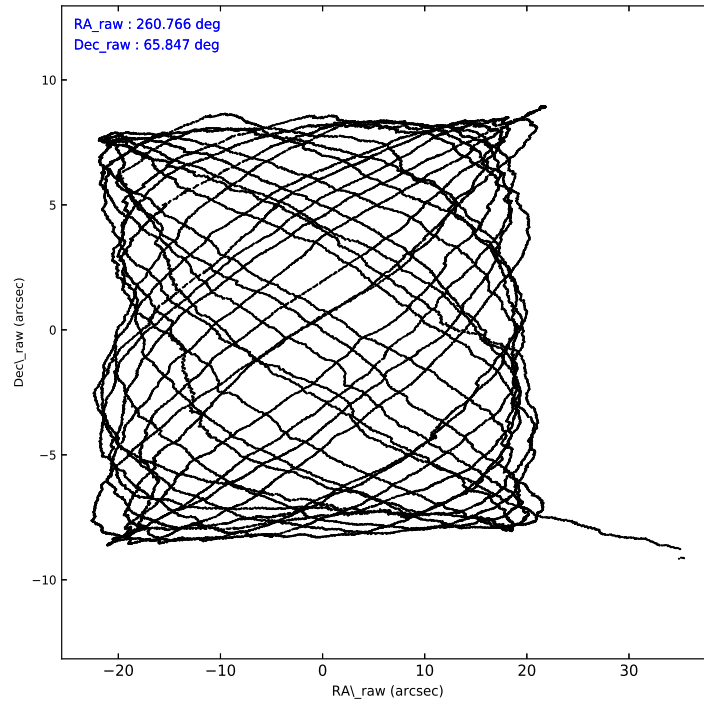
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	105820	107939	112147	109840
rejected events	93593	89417	100286	98247
rejected %	88%	82%	89%	89%

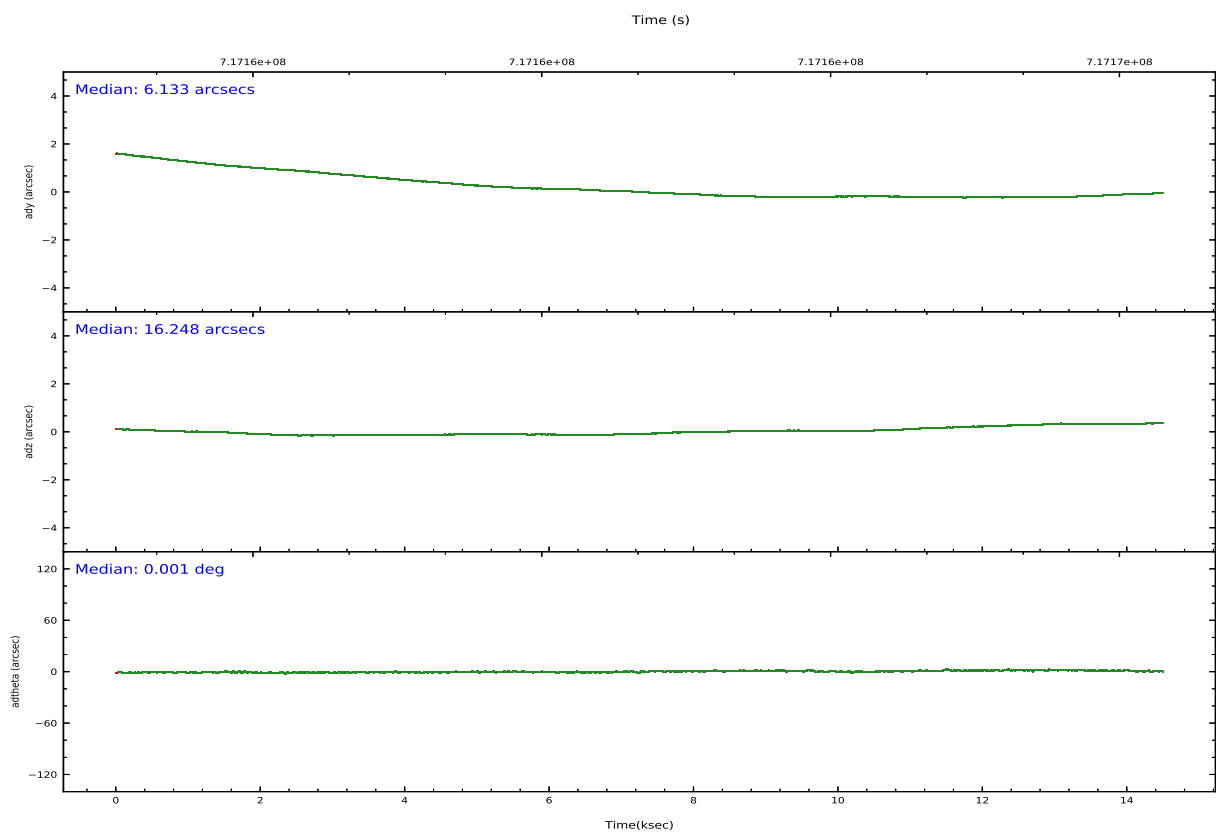
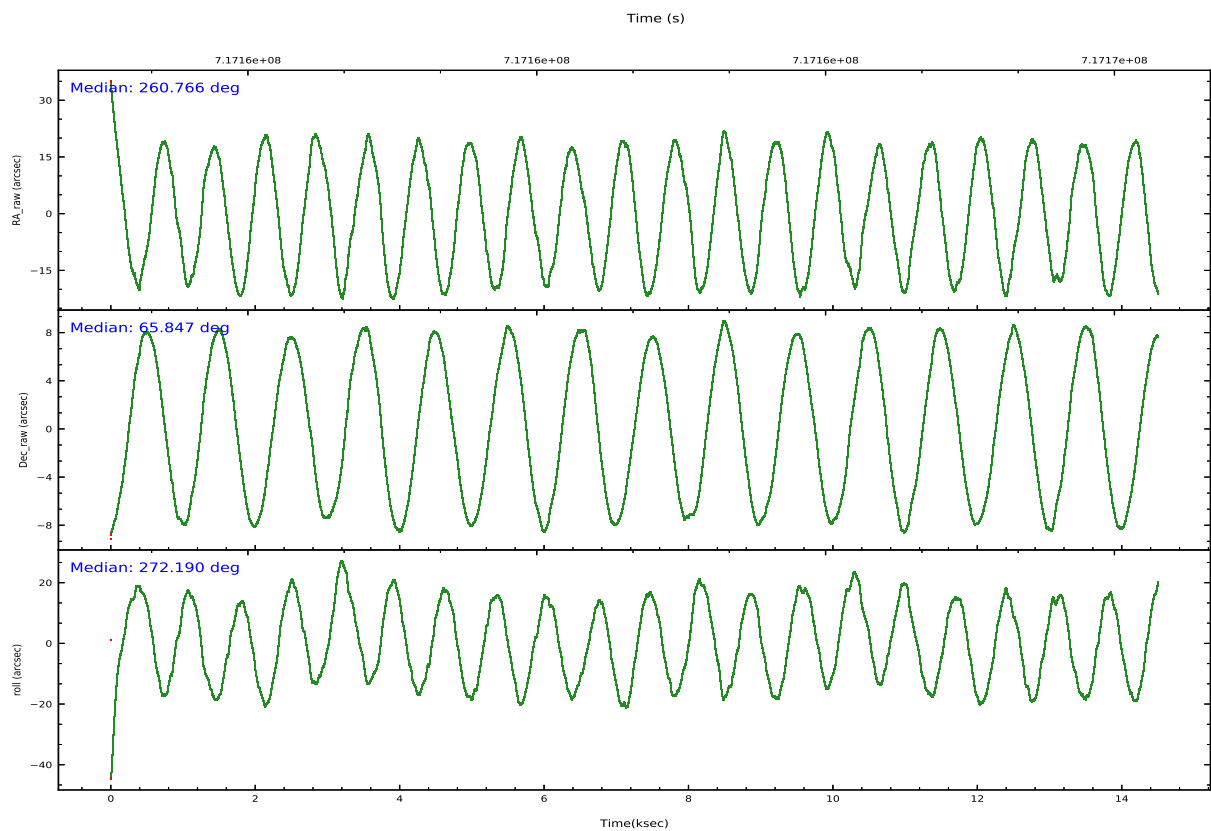
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3997	8711	4234	3958
	3%	8%	3%	3%
grade 1 events	53	81	75	53
	0%	0%	0%	0%
grade 2 events	3125	4050	2882	2596
	2%	3%	2%	2%
grade 3 events	1158	1121	1122	1202
	1%	1%	1%	1%
grade 4 events	1147	1153	1160	1207
	1%	1%	1%	1%
grade 5 events	4342	4670	4290	5028
	4%	4%	3%	4%
grade 6 events	2802	3494	2466	2632
	2%	3%	2%	2%
grade 7 events	89196	84659	95918	93164
	84%	78%	85%	84%

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	260.730129	260.75474438442	CCD I2 on	Y	Y
[deg] Pointing Dec	65.870552	65.849001853578	CCD I3 on	Y	Y
[deg] Pointing Roll	272.023454	272.18968326579	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	-233.592463	-233.5874344608287	CCD S3 on	O2	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	717154287.184000	717153540.7719001	CCD S5 on	N	N
Observation start date	2020-09-22T09:30:18	2020-09-22T09:19:00	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	717168608.184000	717169202.26035	On-chip summing requested	N	N
Observation end date	2020-09-22T13:28:59	2020-09-22T13:40:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



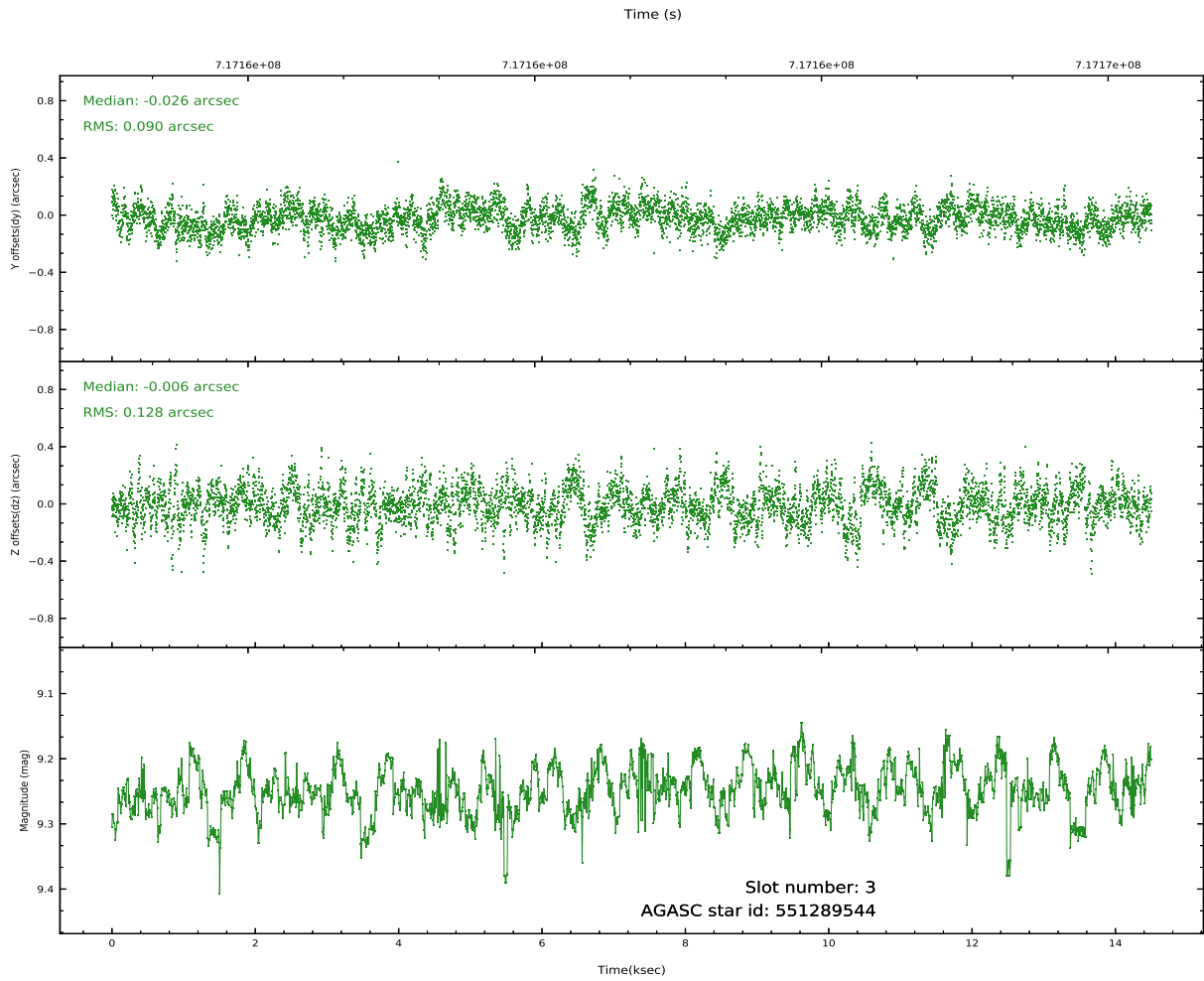
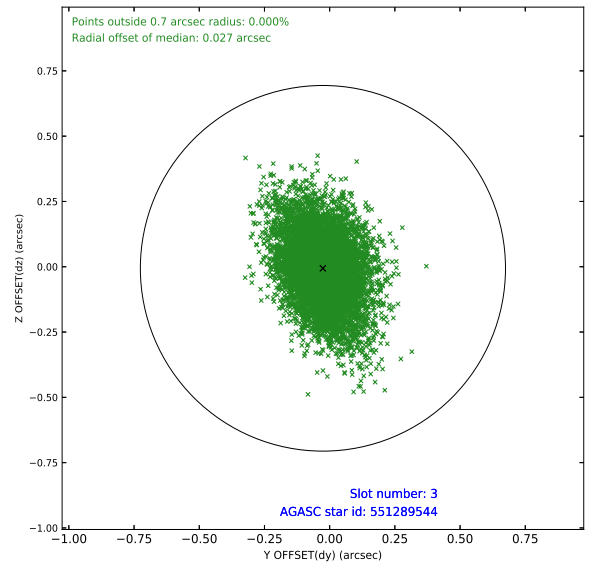
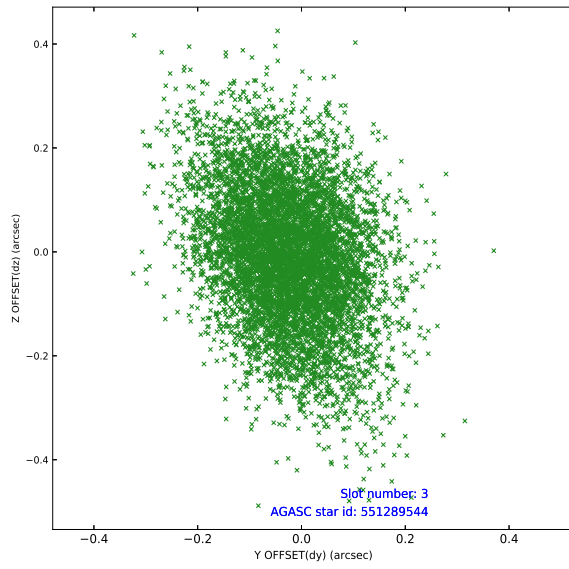


Slot Statistics

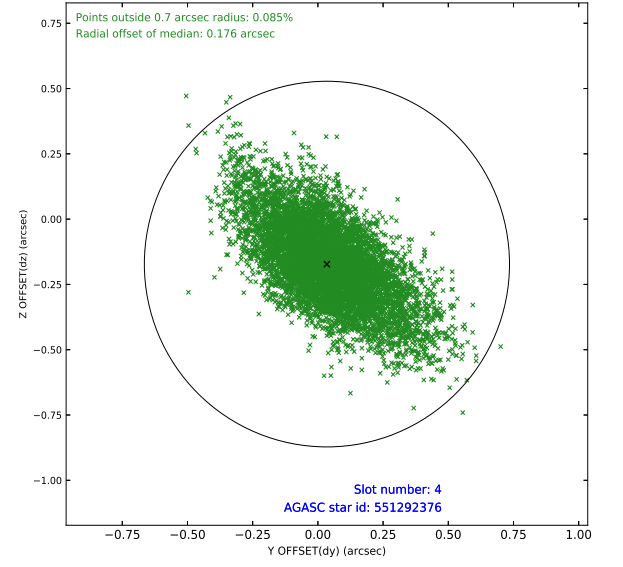
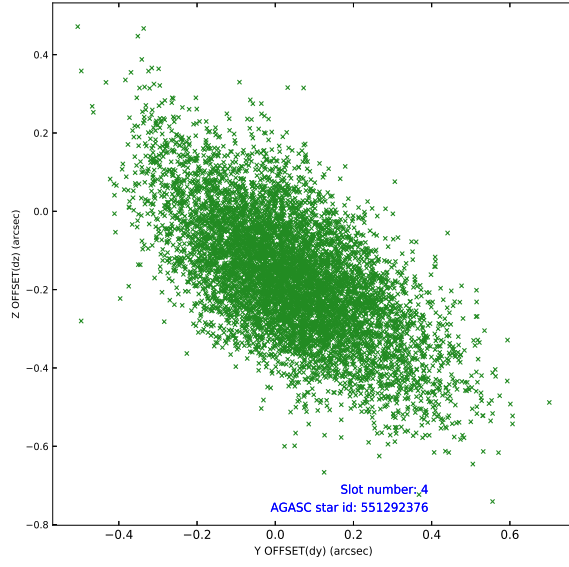
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-3	7.43	3537	1.000	0.085	0.028	0.016	0.025	0.000000	0.000000	50.77	-973
1	FID		ACIS-I-5	7.19	3538	1.000	-0.259	0.097	0.011	0.020	0.000000	0.000000	-1815.07	1057
2	FID		ACIS-I-6	7.19	3537	1.000	0.084	-0.054	0.018	0.030	0.000000	0.000000	398.68	1702
3	GUIDE	used	551289544	9.25	7066	1.000	-0.026	-0.006	0.162	0.279	261.089724	65.487644	1395.55	488
4	GUIDE	used	551292376	9.26	7066	1.000	0.035	-0.172	0.232	0.440	259.292350	65.313144	1905.48	-2229
5	GUIDE	used	551422208	8.56	7071	1.000	0.018	-0.128	0.144	0.246	261.600178	65.236311	2319.64	1230
6	GUIDE	used	551814208	7.90	7073	1.000	0.140	0.139	0.171	0.279	260.175311	65.639944	797.77	-851
7	GUIDE	used	551952296	8.72	7072	1.000	-0.163	0.170	0.128	0.220	261.999680	65.847021	131.88	1866

2.4 Star Slots

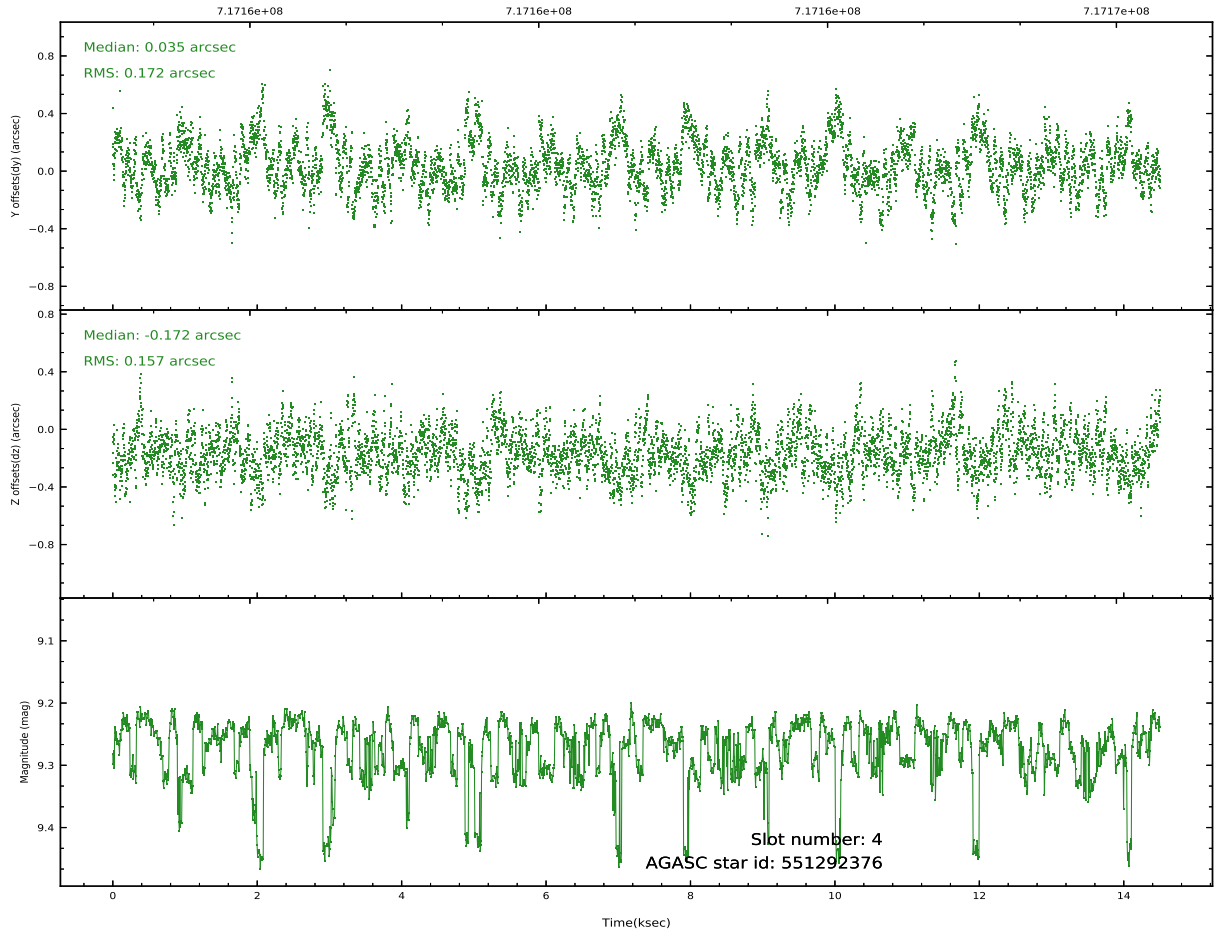
2.4.1 Slot 3



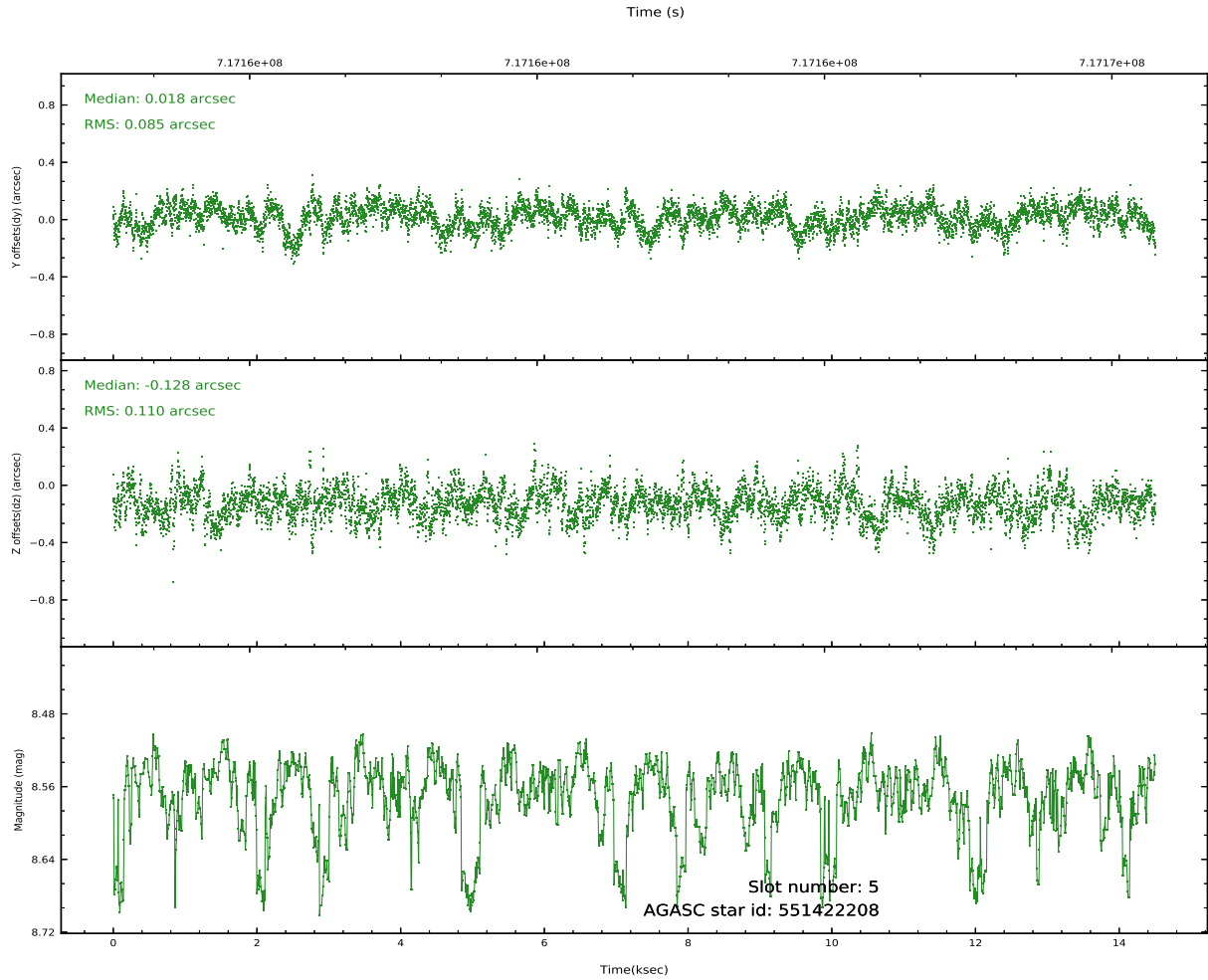
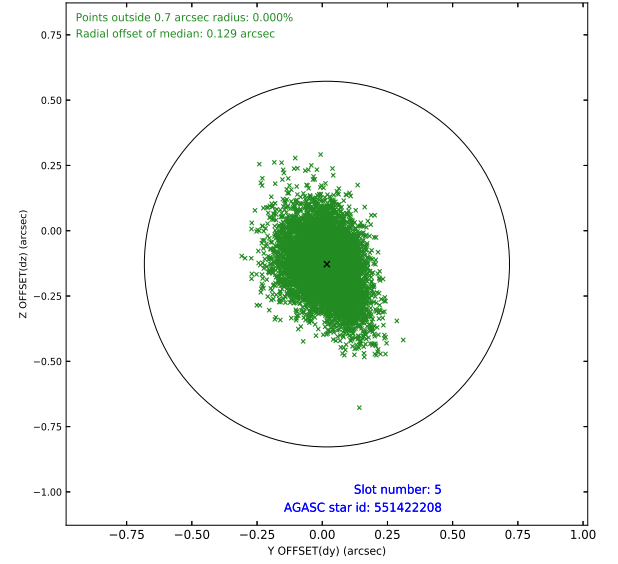
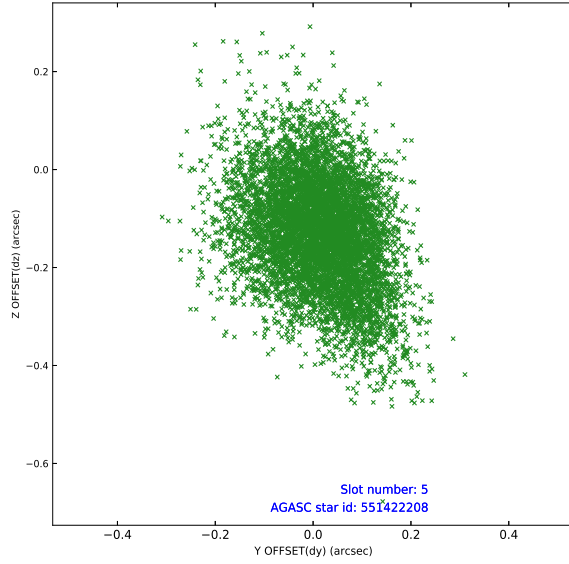
2.4.2 Slot 4



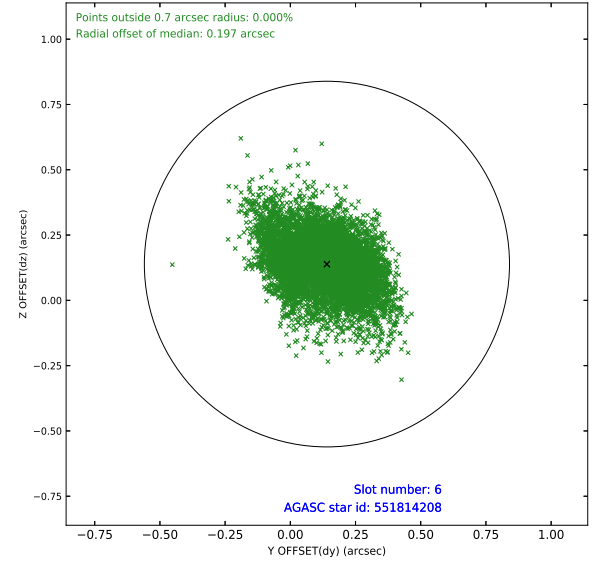
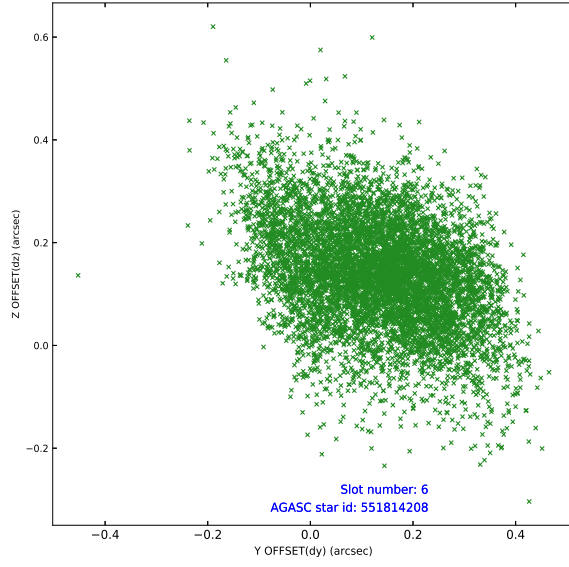
Time (s)



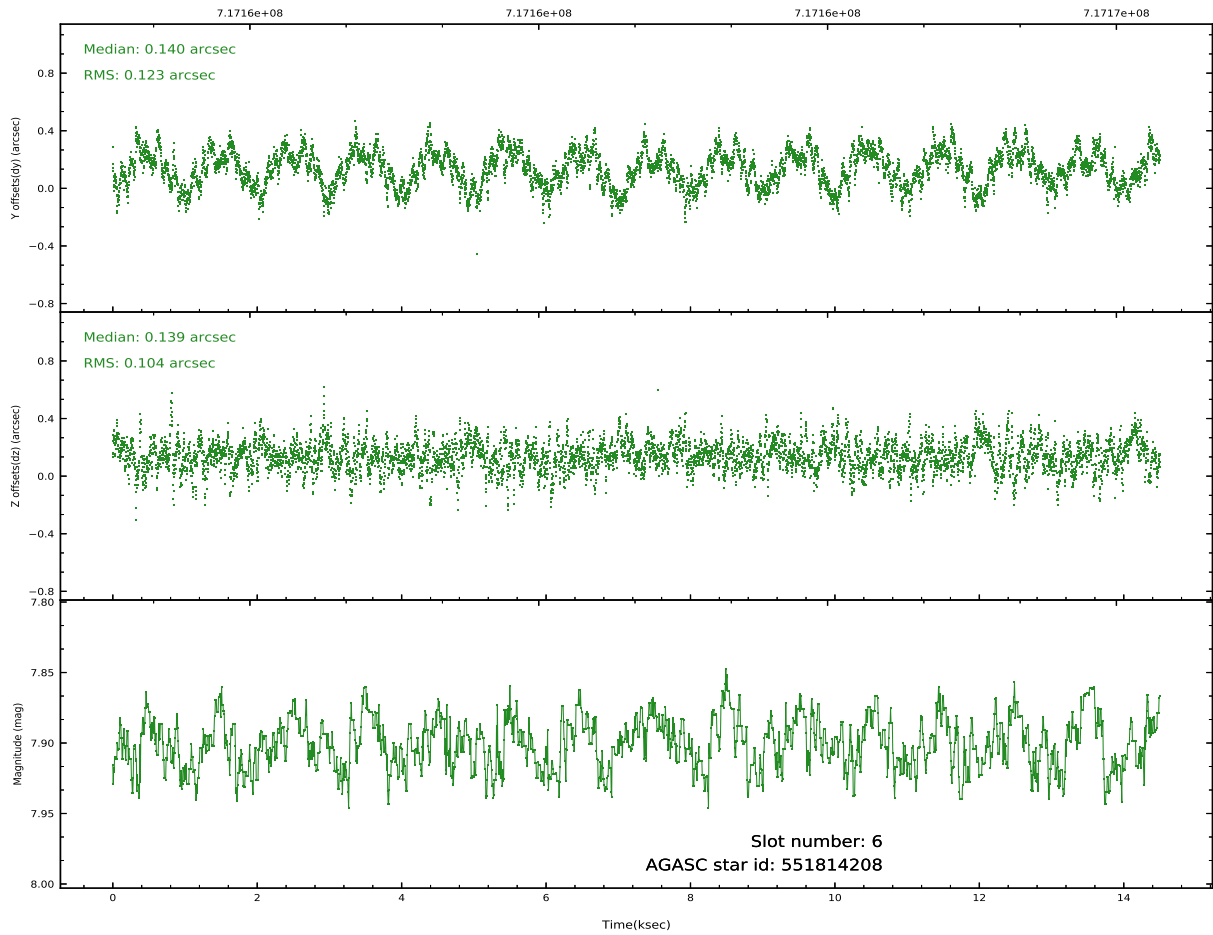
2.4.3 Slot 5



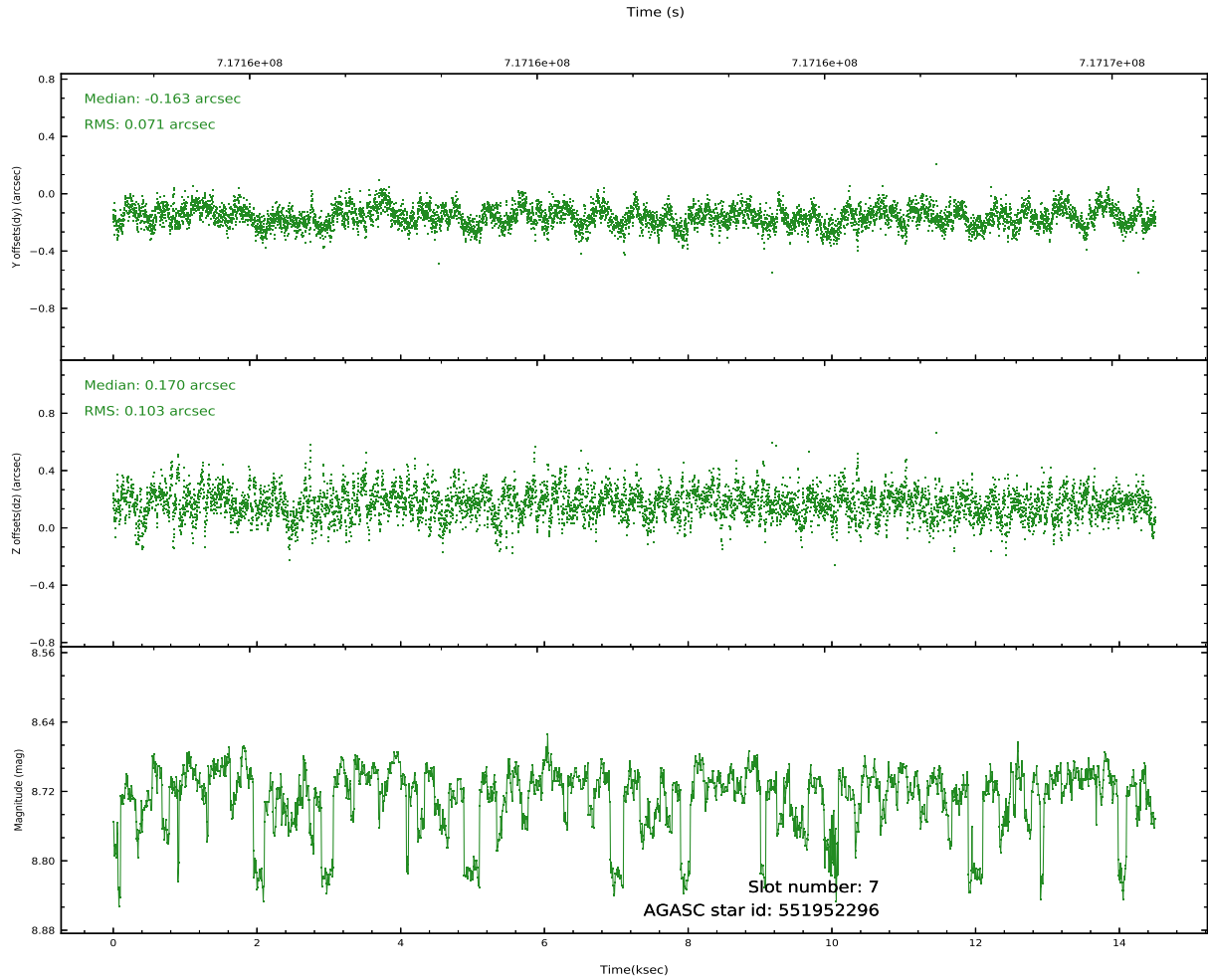
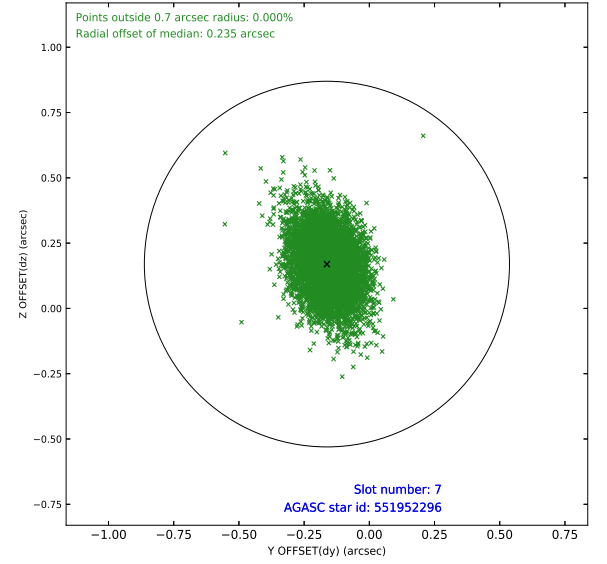
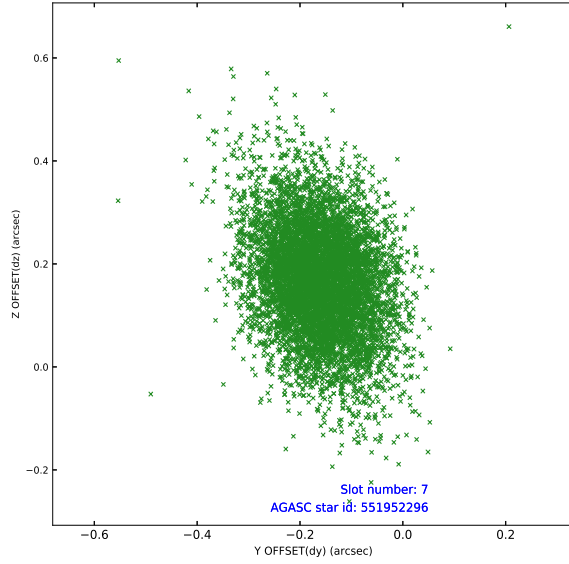
2.4.4 Slot 6



Time (s)

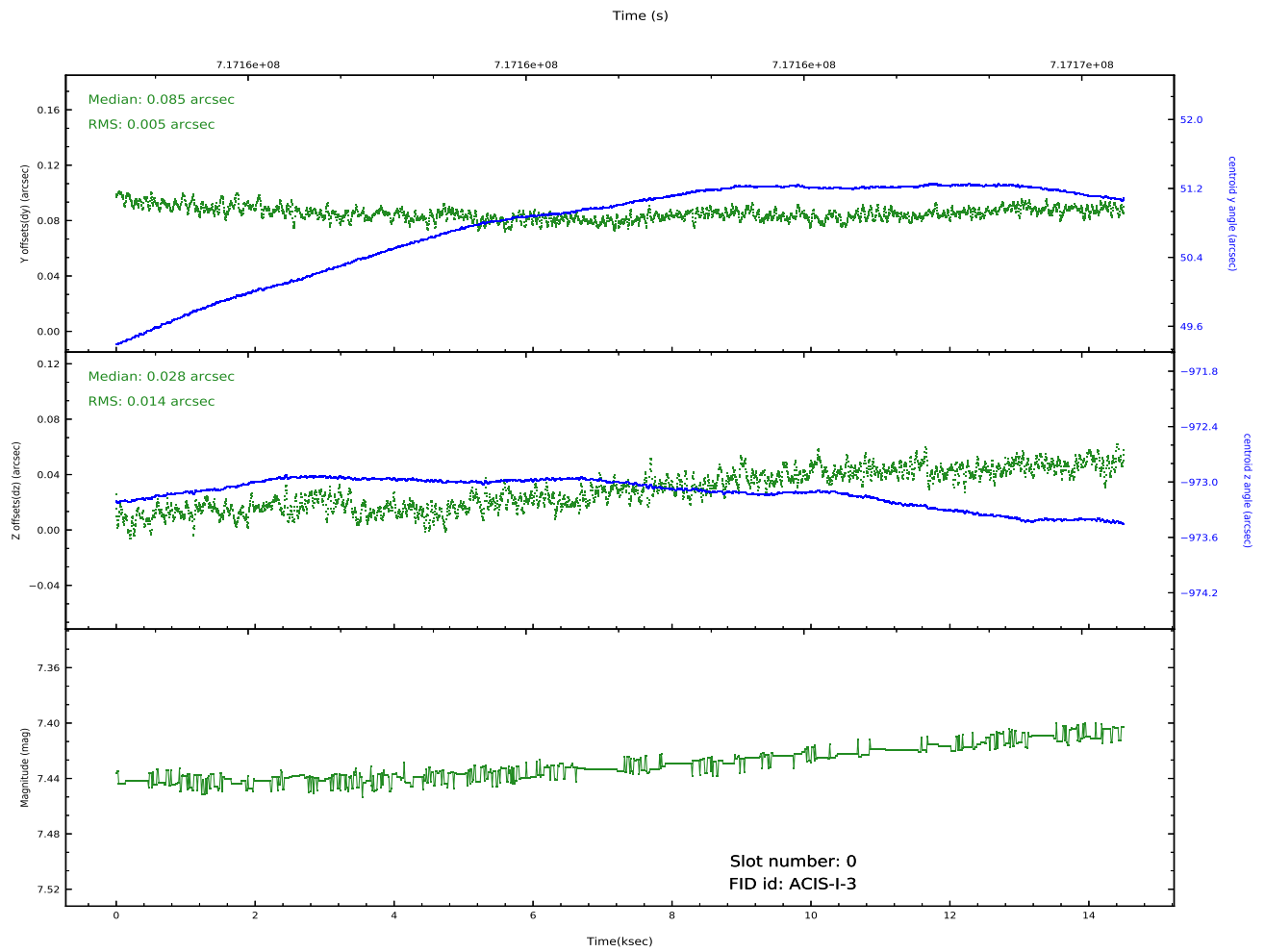
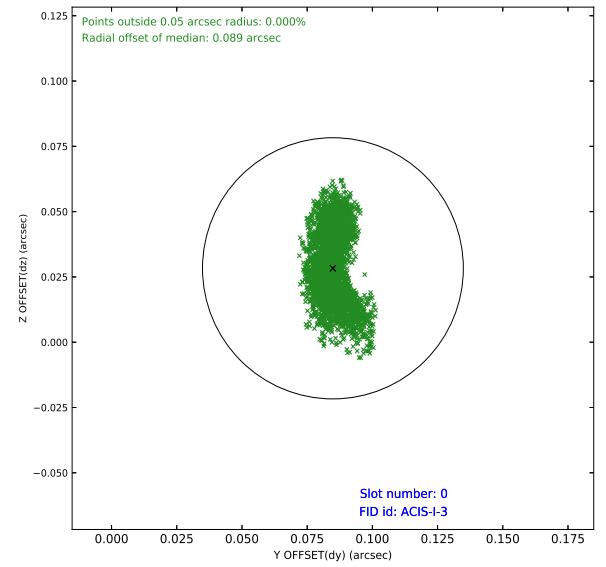
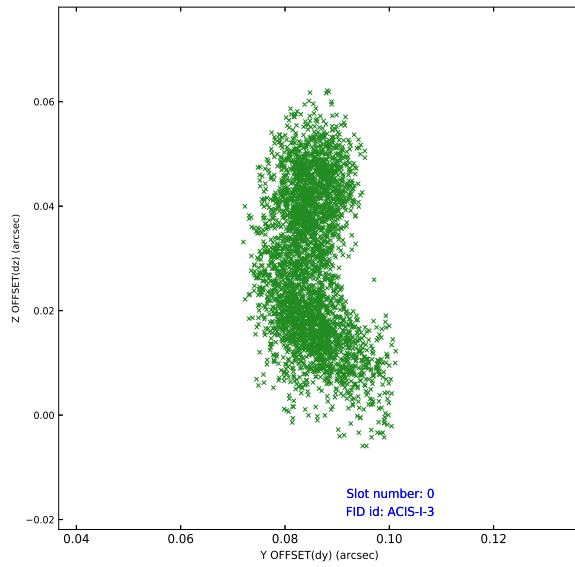


2.4.5 Slot 7

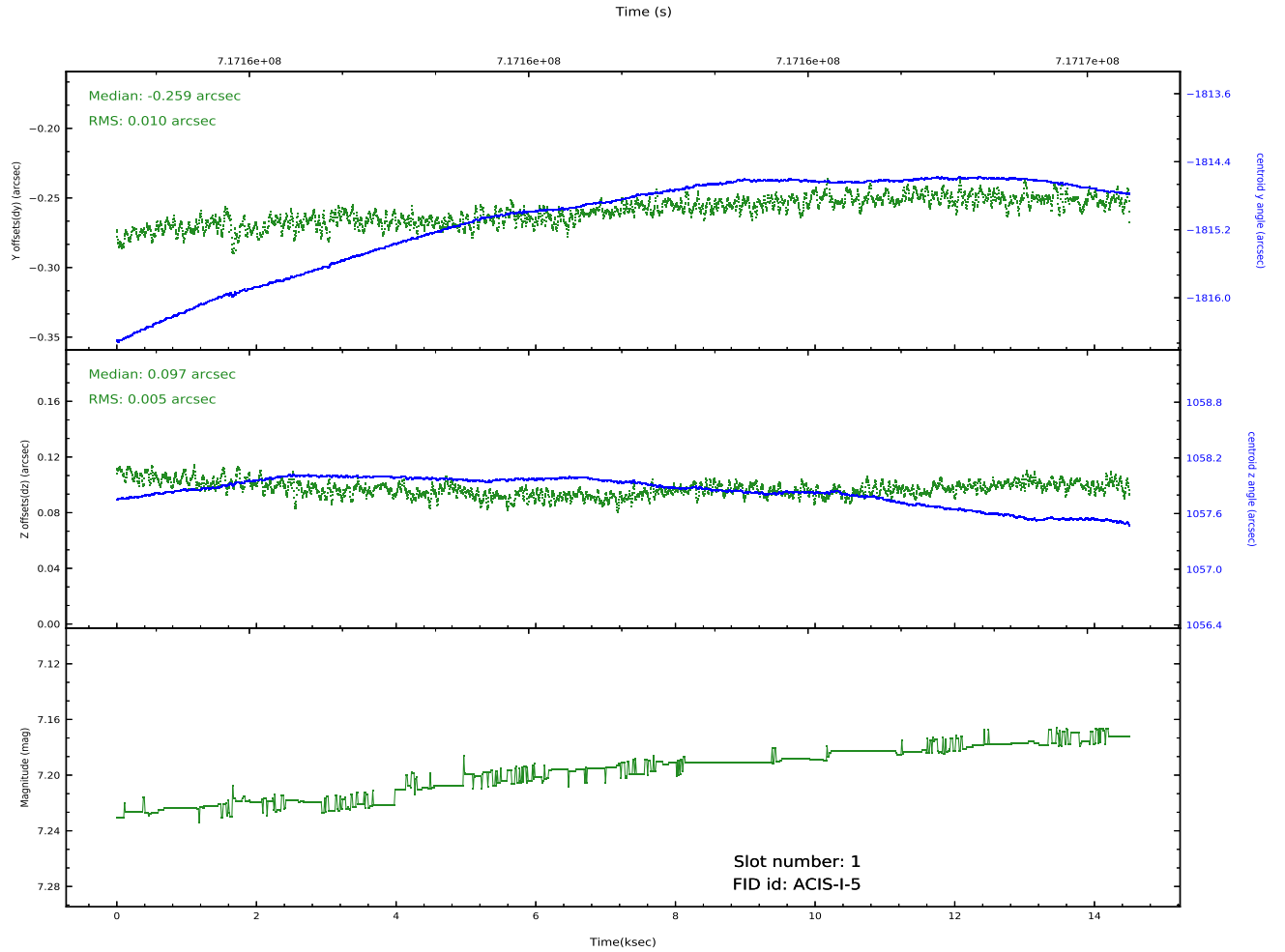
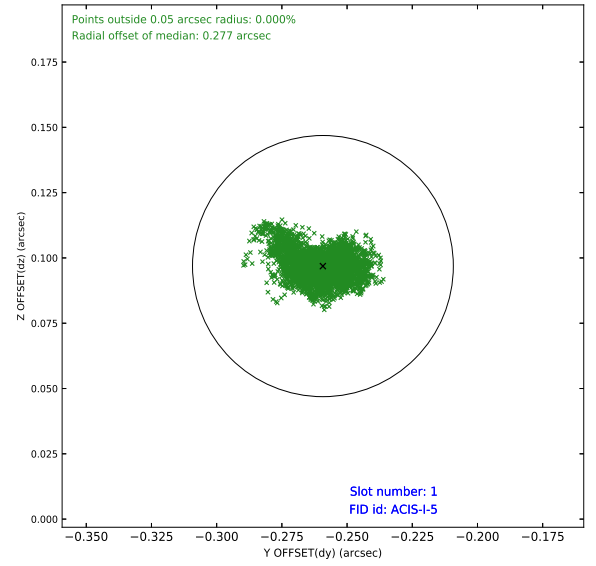
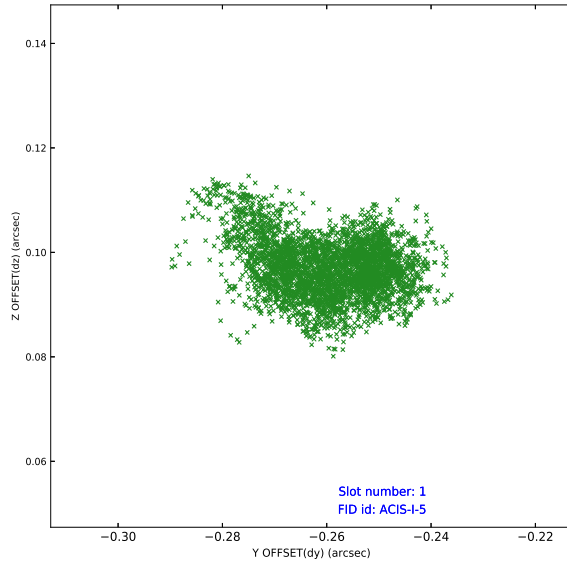


2.5 FID Slots

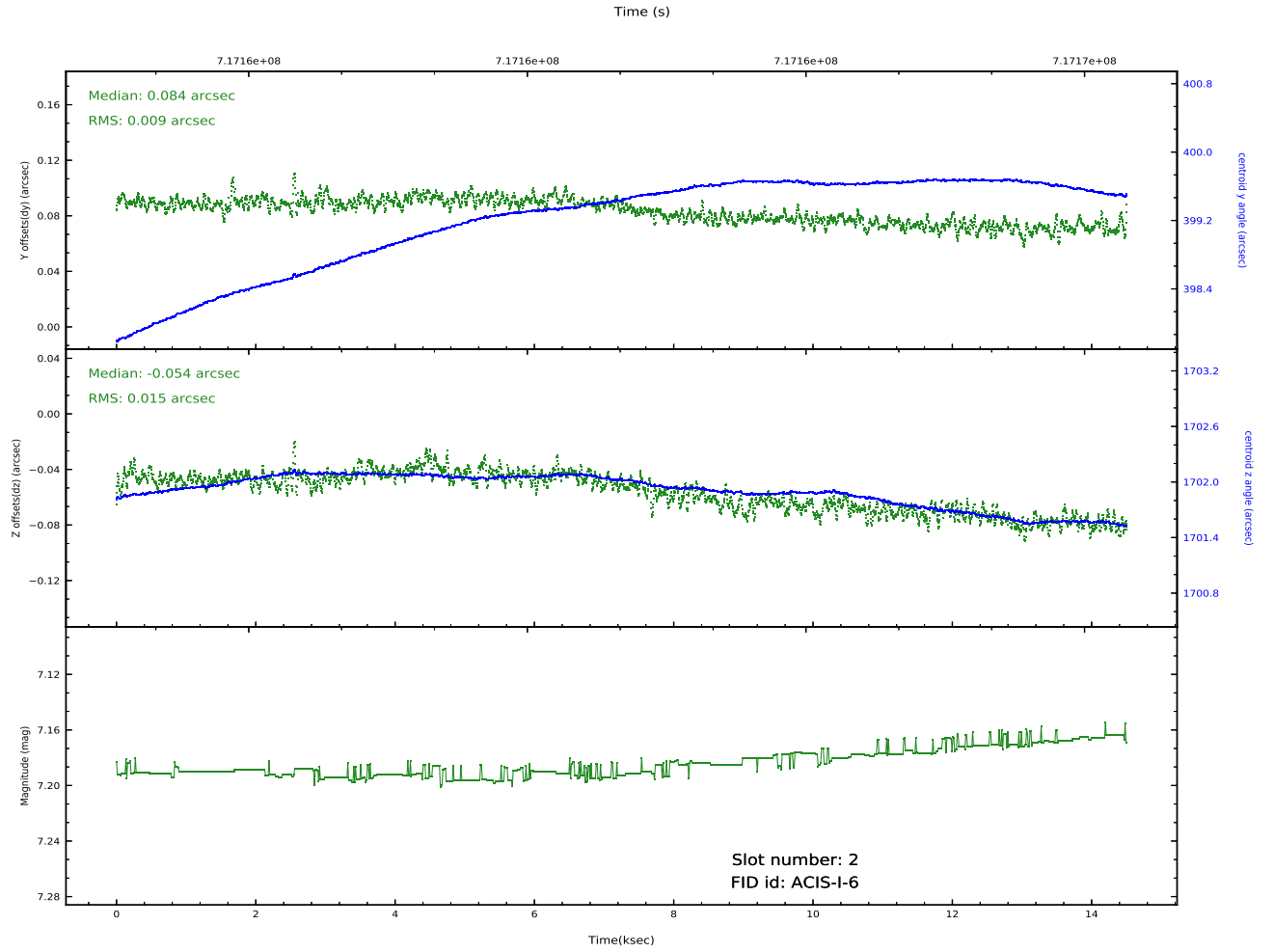
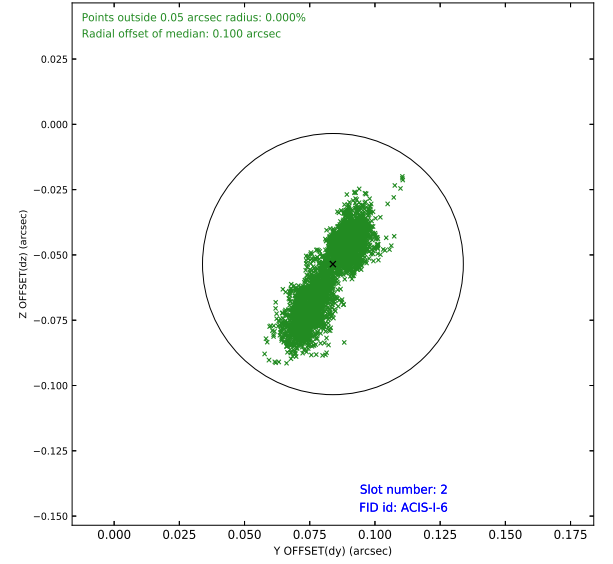
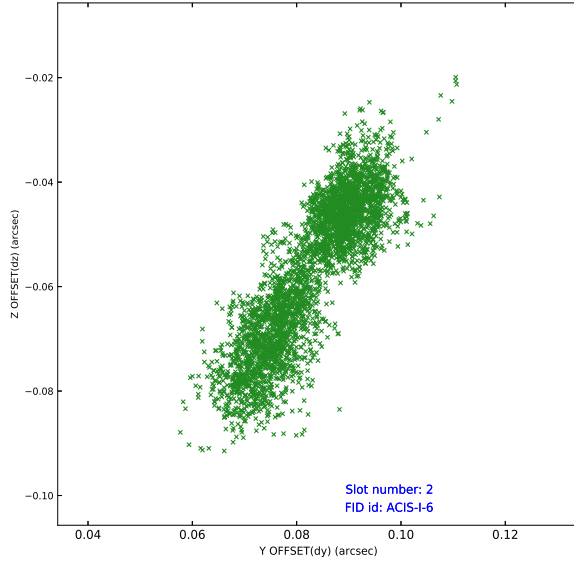
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.229000109553

A.2 Comments

Optional chips S2 and S3 not included.