

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19677 - L2 Version 2
Chandra X-Ray Center

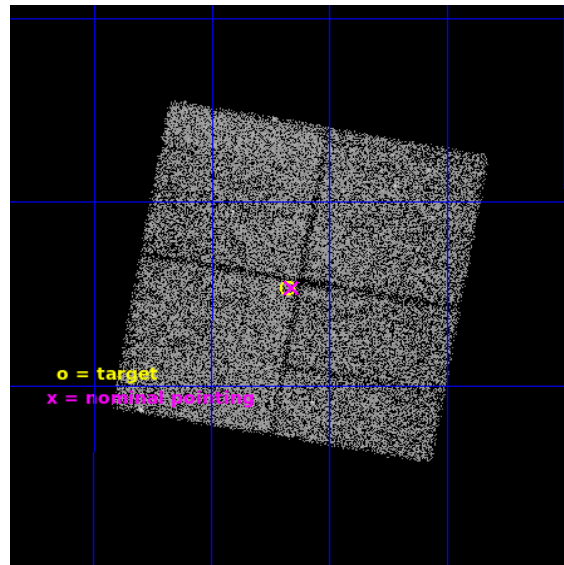
L2 Processing Date : Oct 25 2020

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1 Front

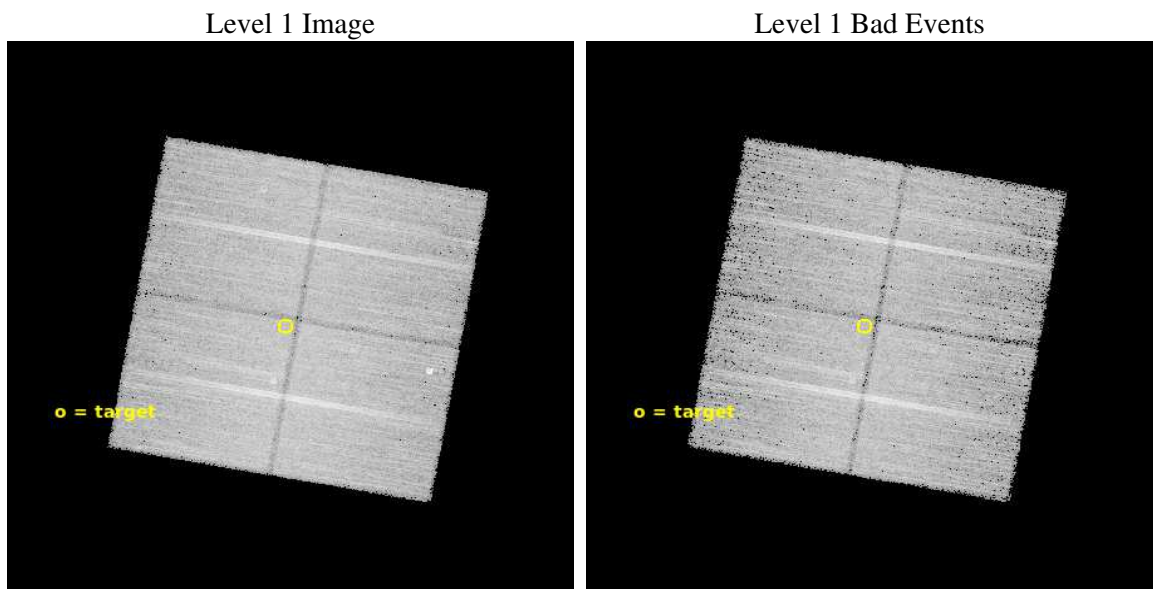
seq_num	901384	Sequence number
obs_id	19677	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.91921	Observer's specified target RA [deg]
dec_targ	34.921287	Observer's specified target Dec [deg]
ra_nom	218.9147315132	Nominal RA [deg]
dec_nom	34.92228961047	Nominal Dec [deg]
roll_nom	190.20207416233	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25760.119992256	Sum of GTIs [s]
livetime	25423.545060233	Livetime [s]
ontime0	25756.8558321	Sum of GTIs [s]
ontime1	25760.03791225	Sum of GTIs [s]
ontime2	25756.937912107	Sum of GTIs [s]
ontime3	25760.119992256	Sum of GTIs [s]
l2events	68067	Number of level 2 events



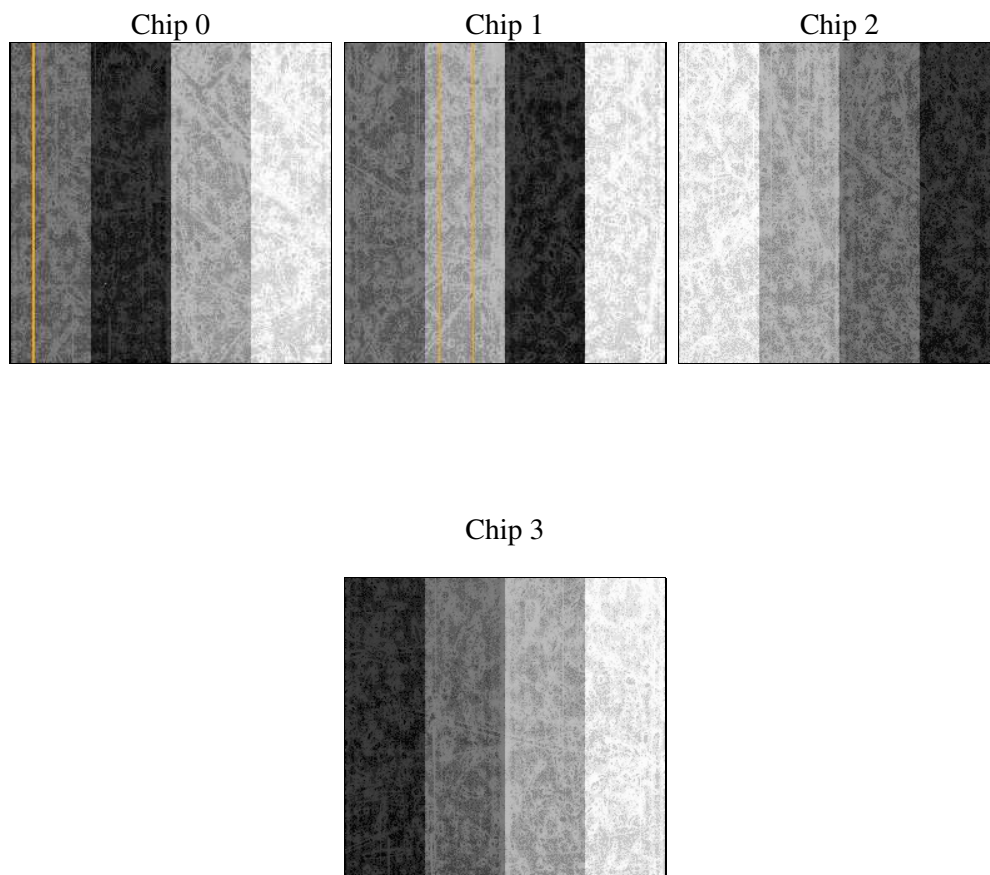
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25683.960000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25760.119992256	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25756.8558321	Sum of GTIs [s]
date	2020-10-25T23:51:22	Date and time of file creation	ontime1	25760.03791225	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25756.937912107	Sum of GTIs [s]
			ontime3	25760.119992256	Sum of GTIs [s]
			l1events	751413	Number of level 1 events

2.1.4 Events

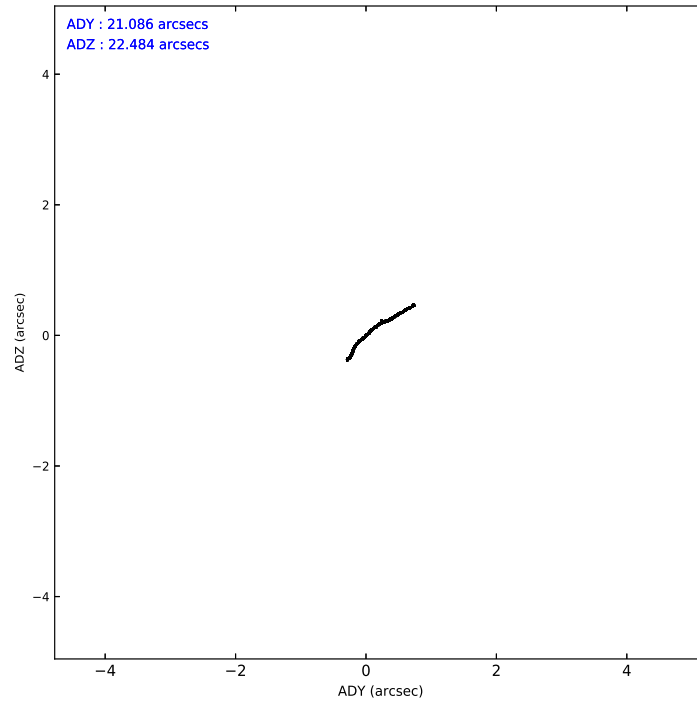
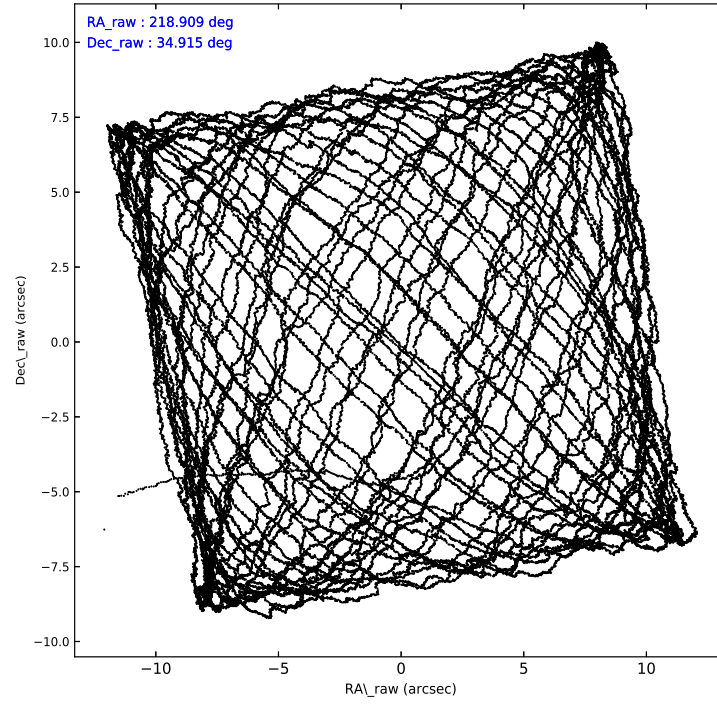
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	177555	176998	200976	195884
rejected events	157295	154733	180542	176237
rejected %	88%	87%	89%	89%

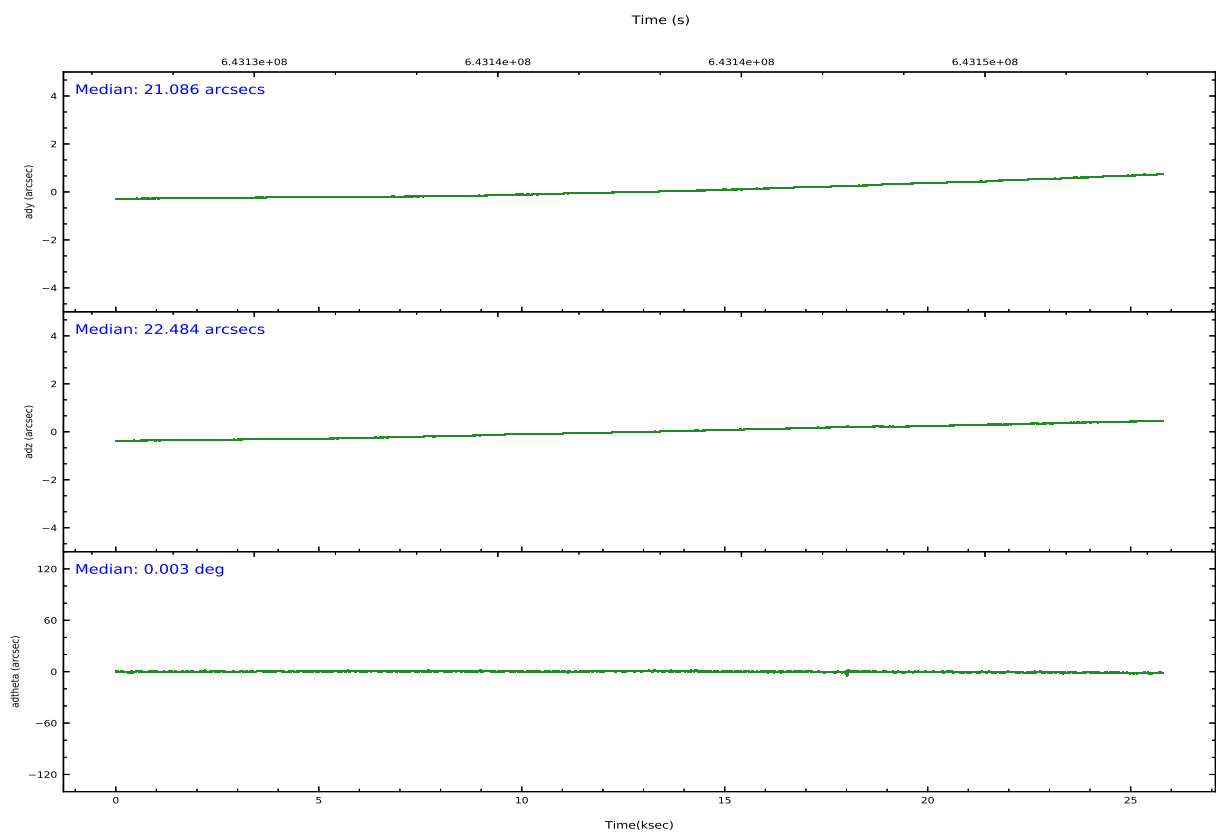
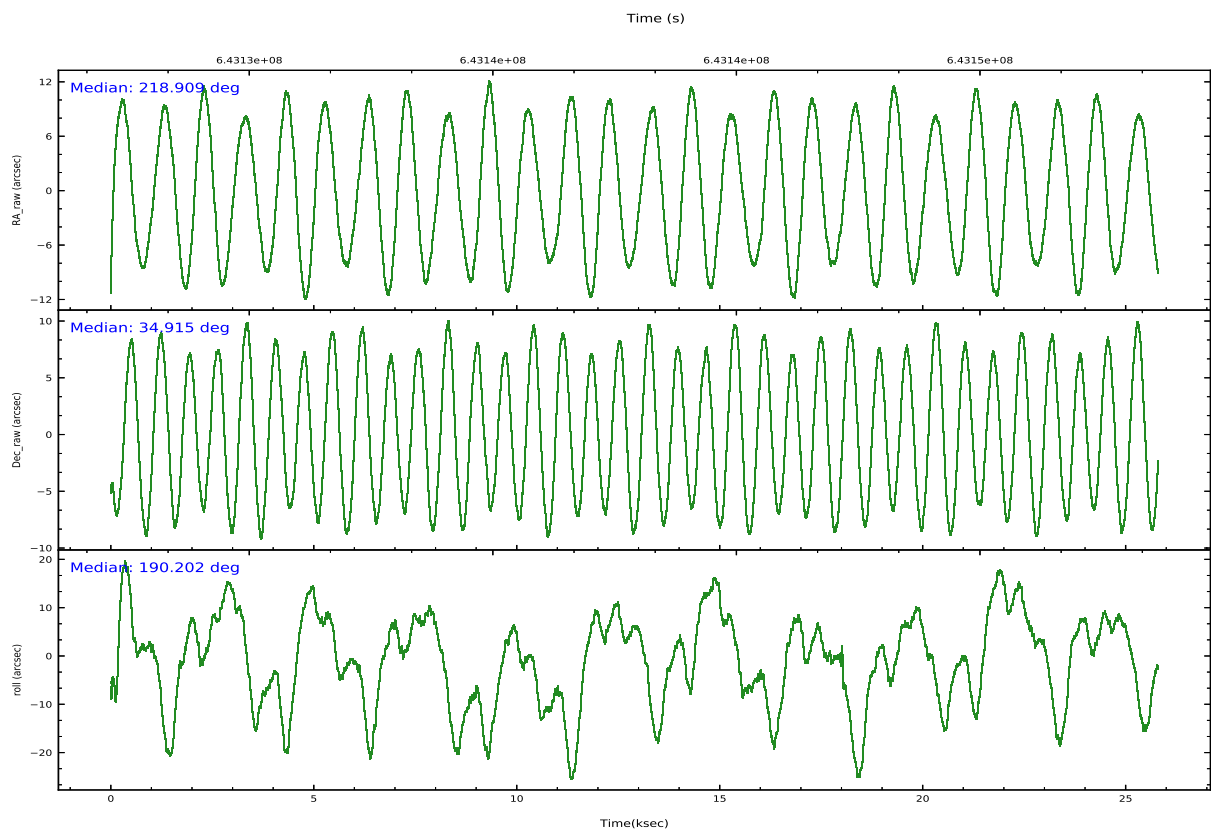
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6573	6696	7974	6858
	3%	3%	3%	3%
grade 1 events	95	92	96	168
	0%	0%	0%	0%
grade 2 events	5239	6134	4611	4346
	2%	3%	2%	2%
grade 3 events	2017	1983	1970	2051
	1%	1%	0%	1%
grade 4 events	1896	1886	1897	2059
	1%	1%	0%	1%
grade 5 events	7427	7532	6908	8766
	4%	4%	3%	4%
grade 6 events	4543	5573	3989	4339
	2%	3%	1%	2%
grade 7 events	149765	147102	173531	167297
	84%	83%	86%	85%

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	218.934514	218.9147315132	CCD I2 on	Y	Y
[deg] Pointing Dec	34.932763	34.92228961047	CCD I3 on	Y	Y
[deg] Pointing Roll	189.991232	190.20207416233	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	643128706.184000	643127147.2831	CCD S5 on	N	N
Observation start date	2018-05-19T14:50:37	2018-05-19T14:25:47	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	643154390.184000	643154923.2472399	On-chip summing requested	N	N
Observation end date	2018-05-19T21:58:41	2018-05-19T22:08:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



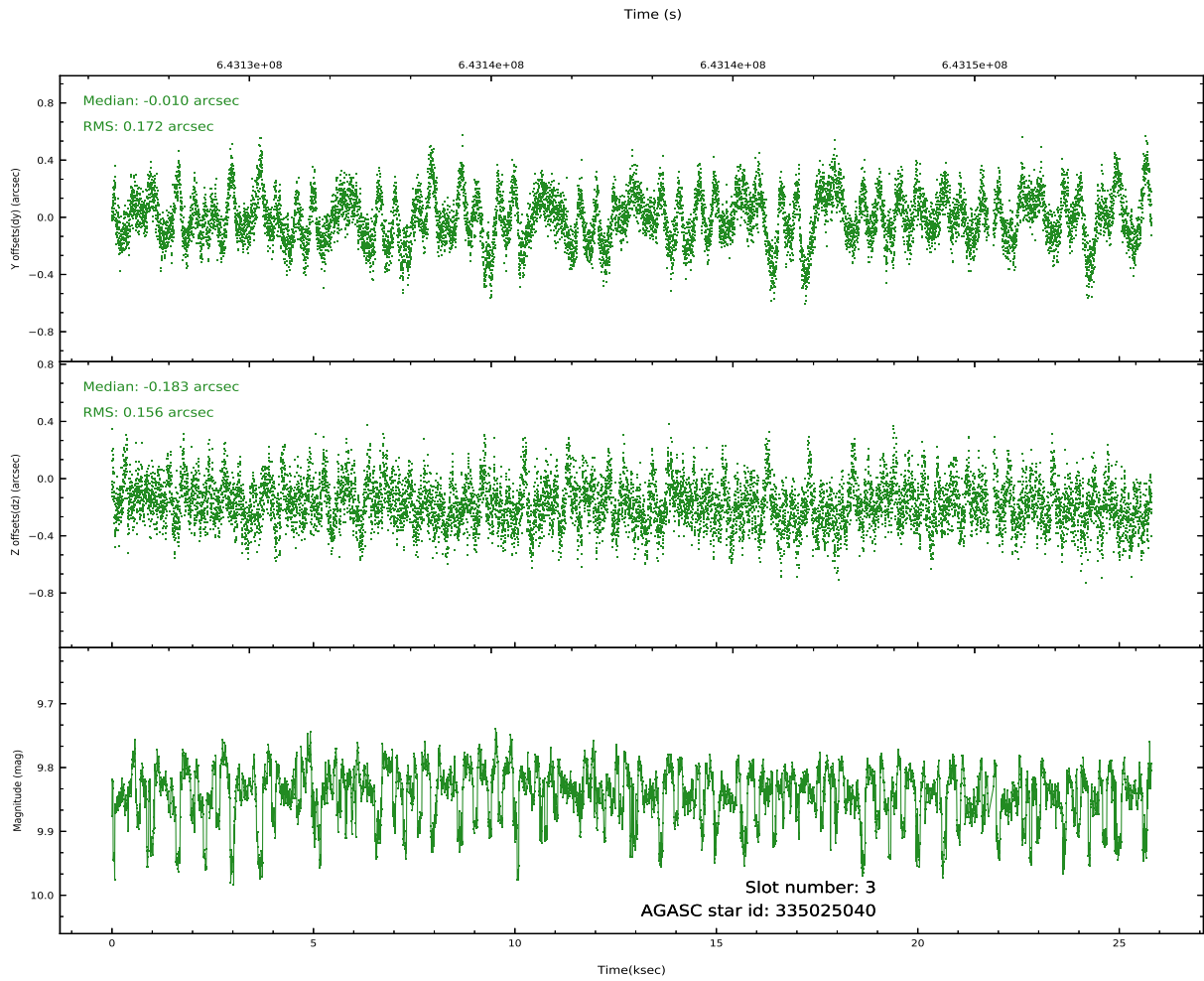
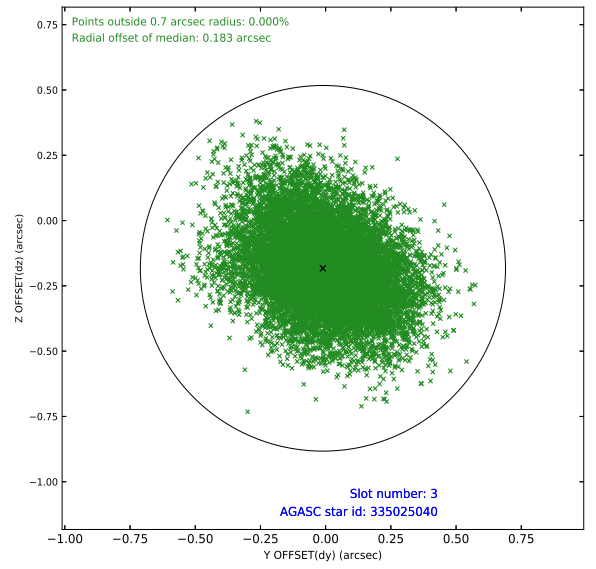
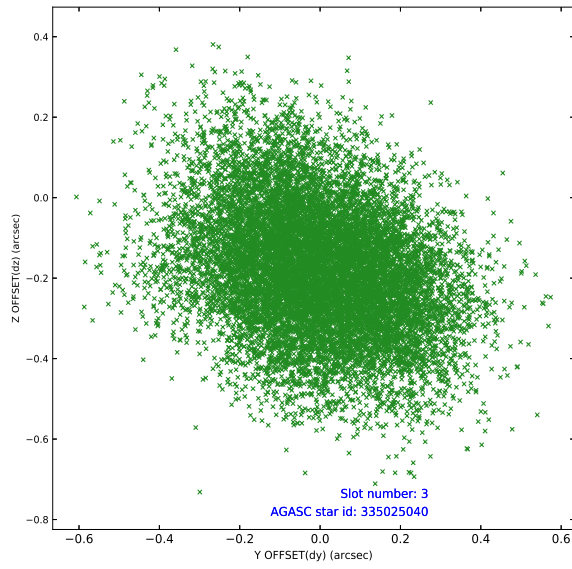


Slot Statistics

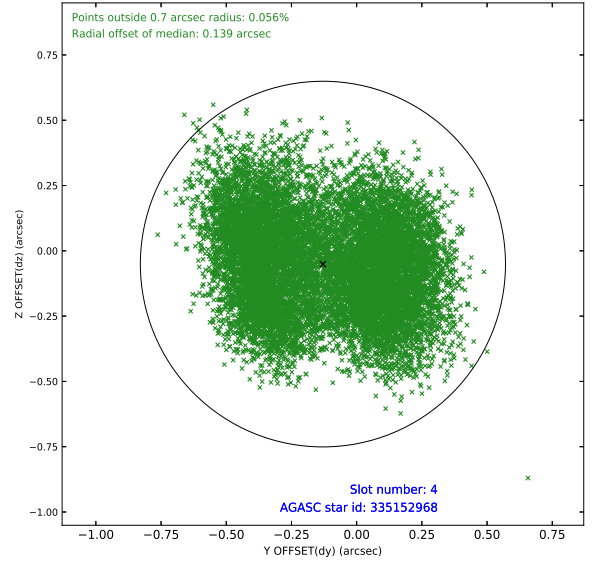
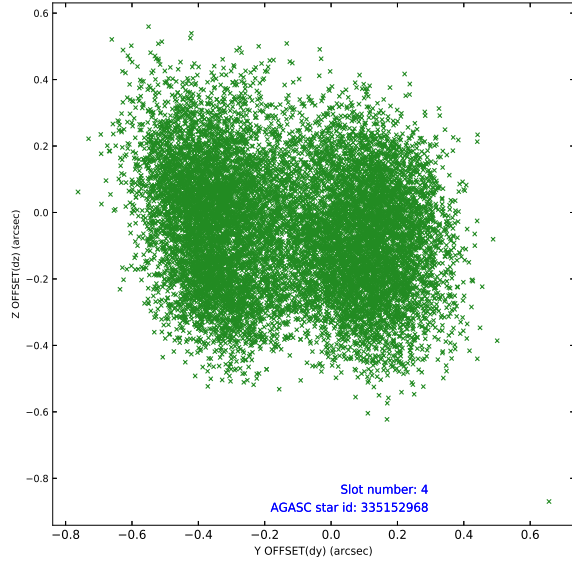
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.27	6293	1.000	0.216	-0.094	0.017	0.032	0.000000	0.000000	918.26	-846
1	FID		ACIS-I-5	7.26	6292	1.000	-0.308	0.197	0.008	0.014	0.000000	0.000000	-1830.15	1051
2	FID		ACIS-I-6	7.28	6293	1.000	0.000	-0.032	0.017	0.030	0.000000	0.000000	383.69	1695
3	GUIDE	used	335025040	9.84	12506	1.000	-0.010	-0.183	0.246	0.397	218.601670	34.305240	1366.46	2051
4	GUIDE	used	335152968	9.65	12569	1.000	-0.129	-0.051	0.344	0.480	219.446087	34.867883	-1448.49	489
5	GUIDE	used	335153936	10.15	12540	1.000	-0.125	-0.270	0.355	0.579	219.671318	34.457728	-1856.56	2054
6	GUIDE	used	335414336	8.95	12572	1.000	0.091	-0.098	0.168	0.281	218.979022	35.090910	-227.77	-537
7	GUIDE	used	335554008	9.77	12560	1.000	0.163	0.607	0.196	0.309	219.383422	35.471863	-1632.98	-1685

2.4 Star Slots

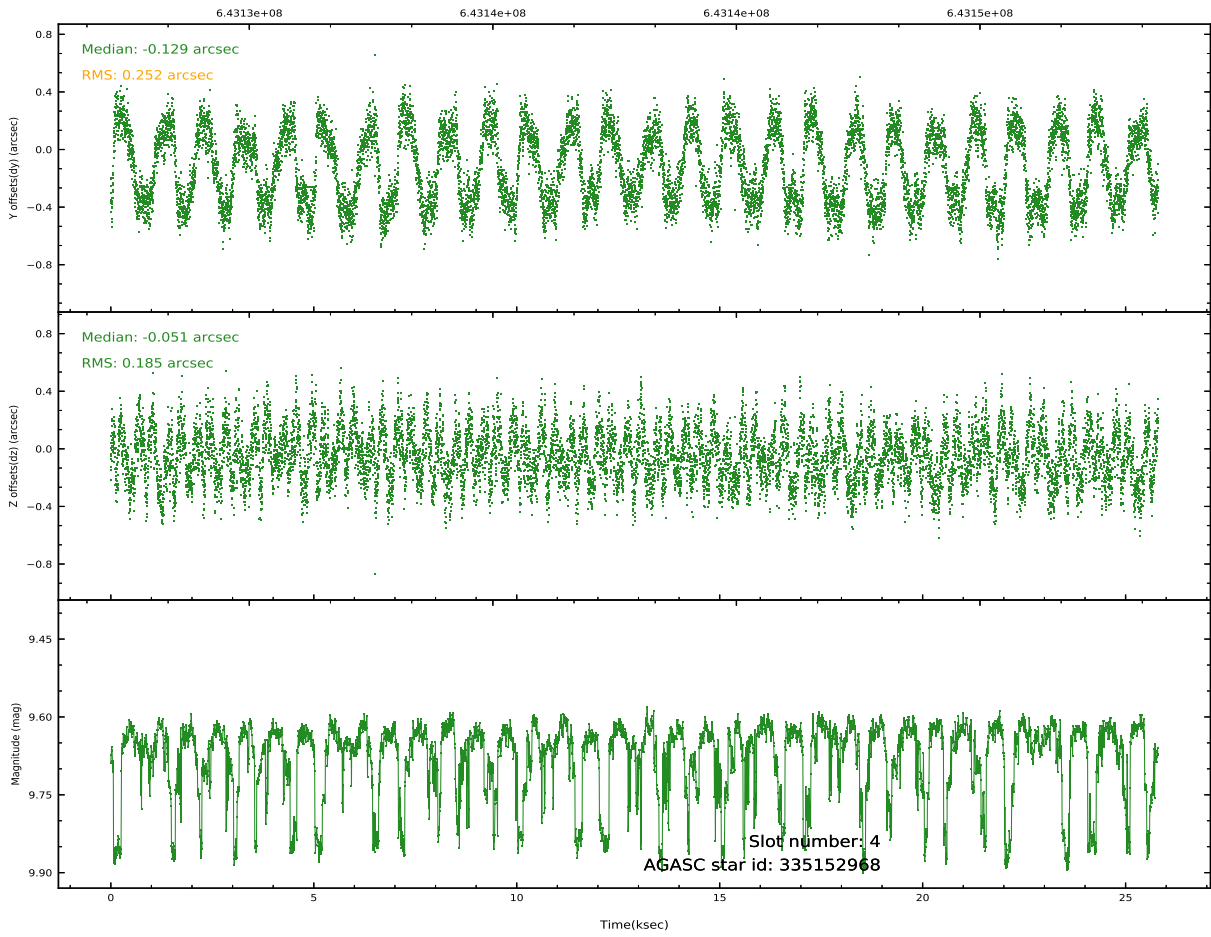
2.4.1 Slot 3



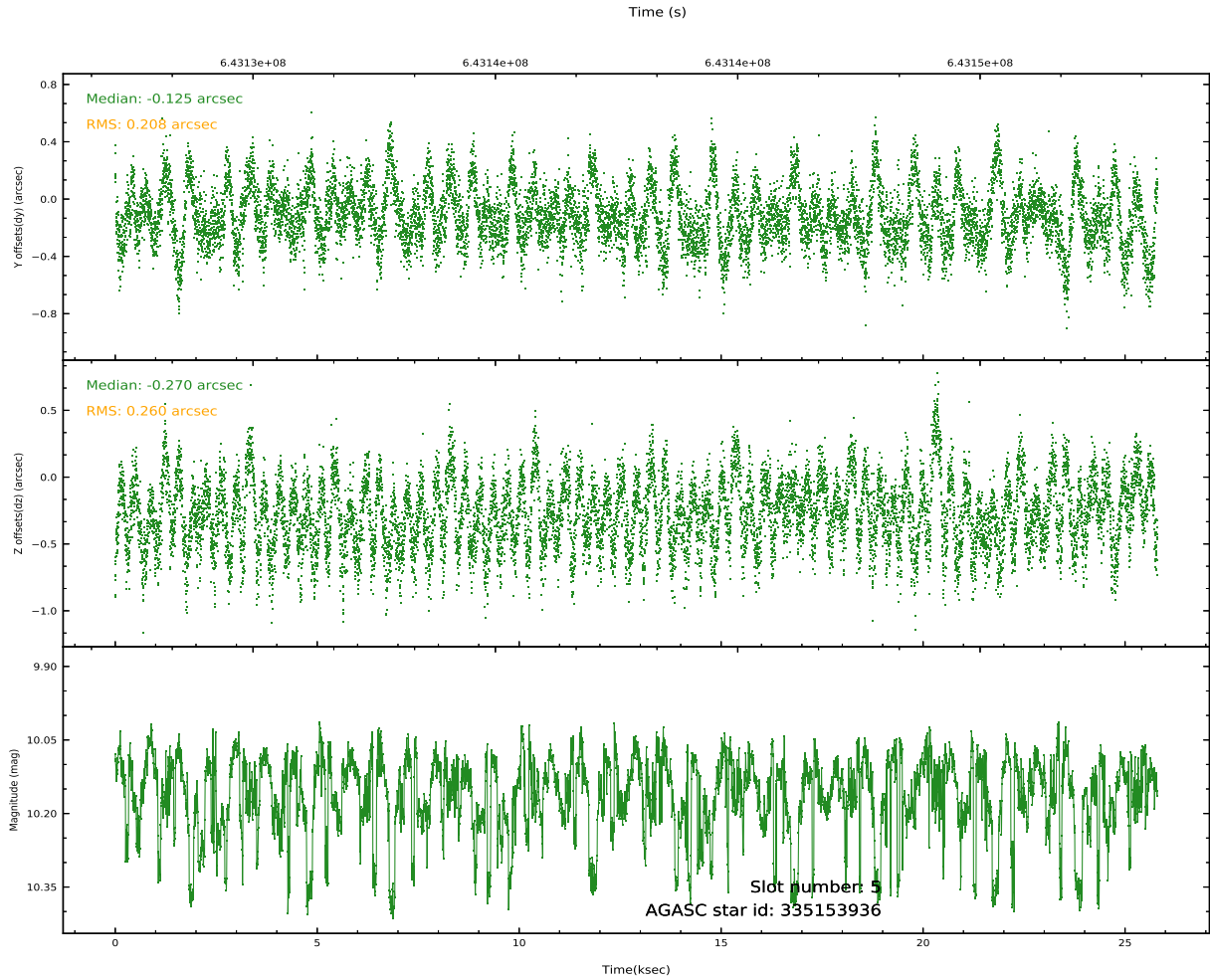
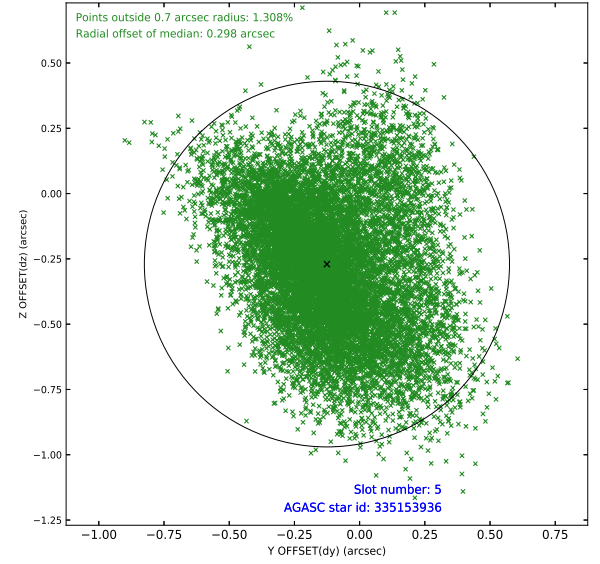
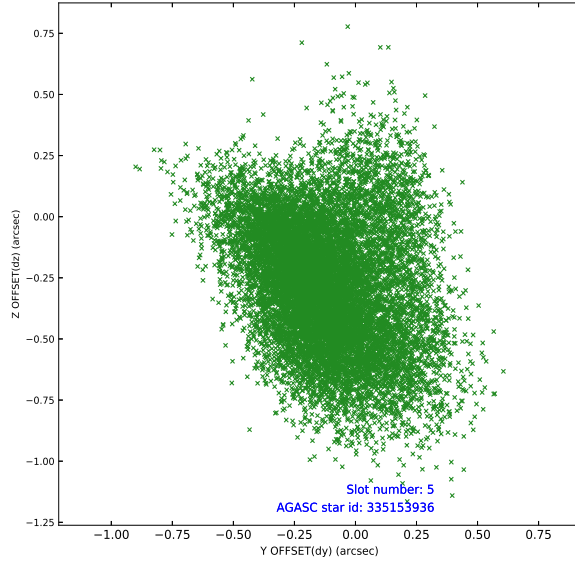
2.4.2 Slot 4



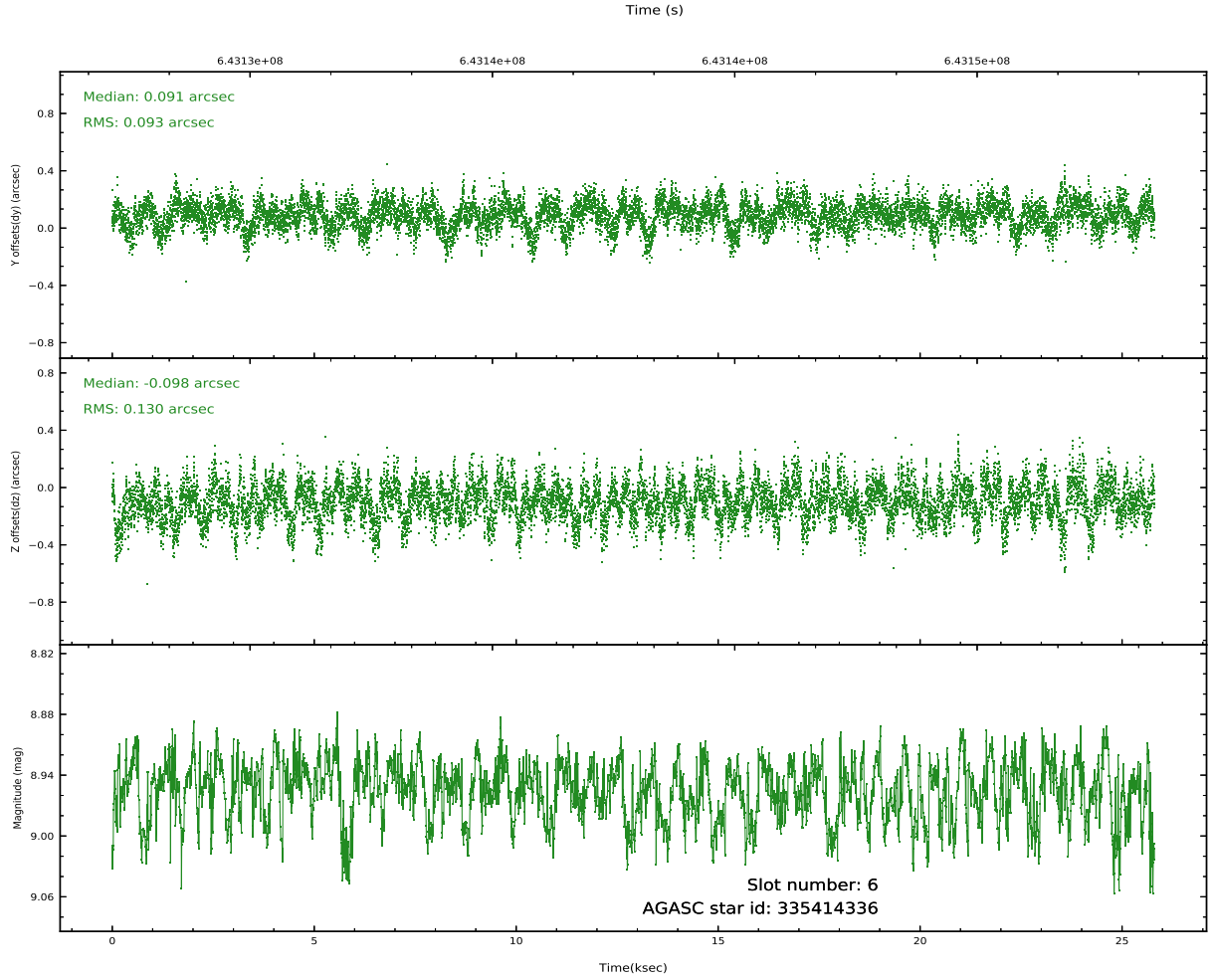
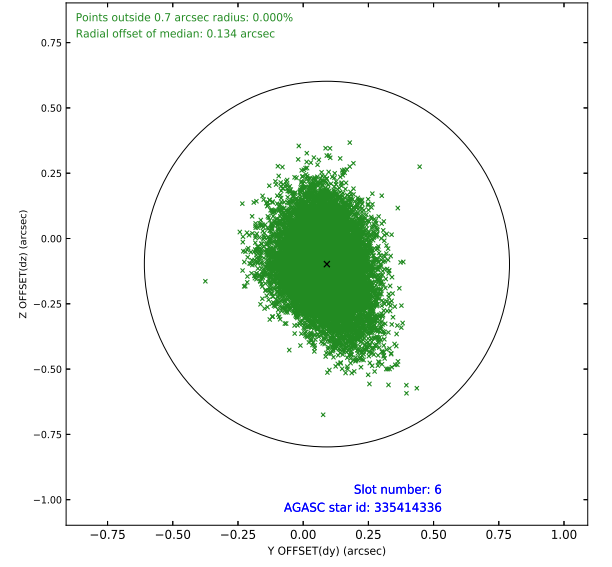
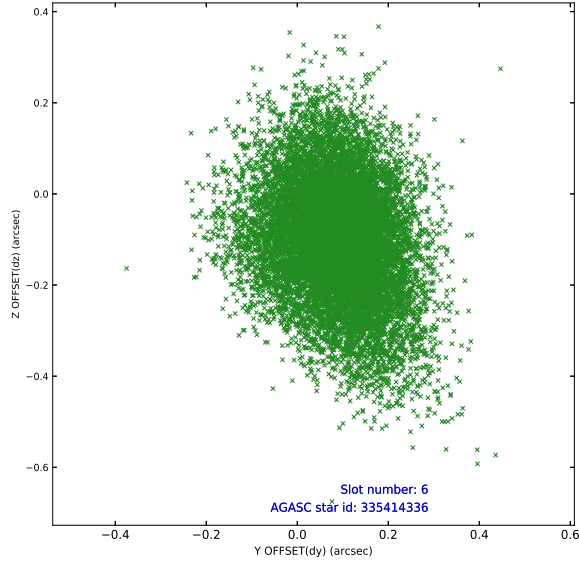
Time (s)



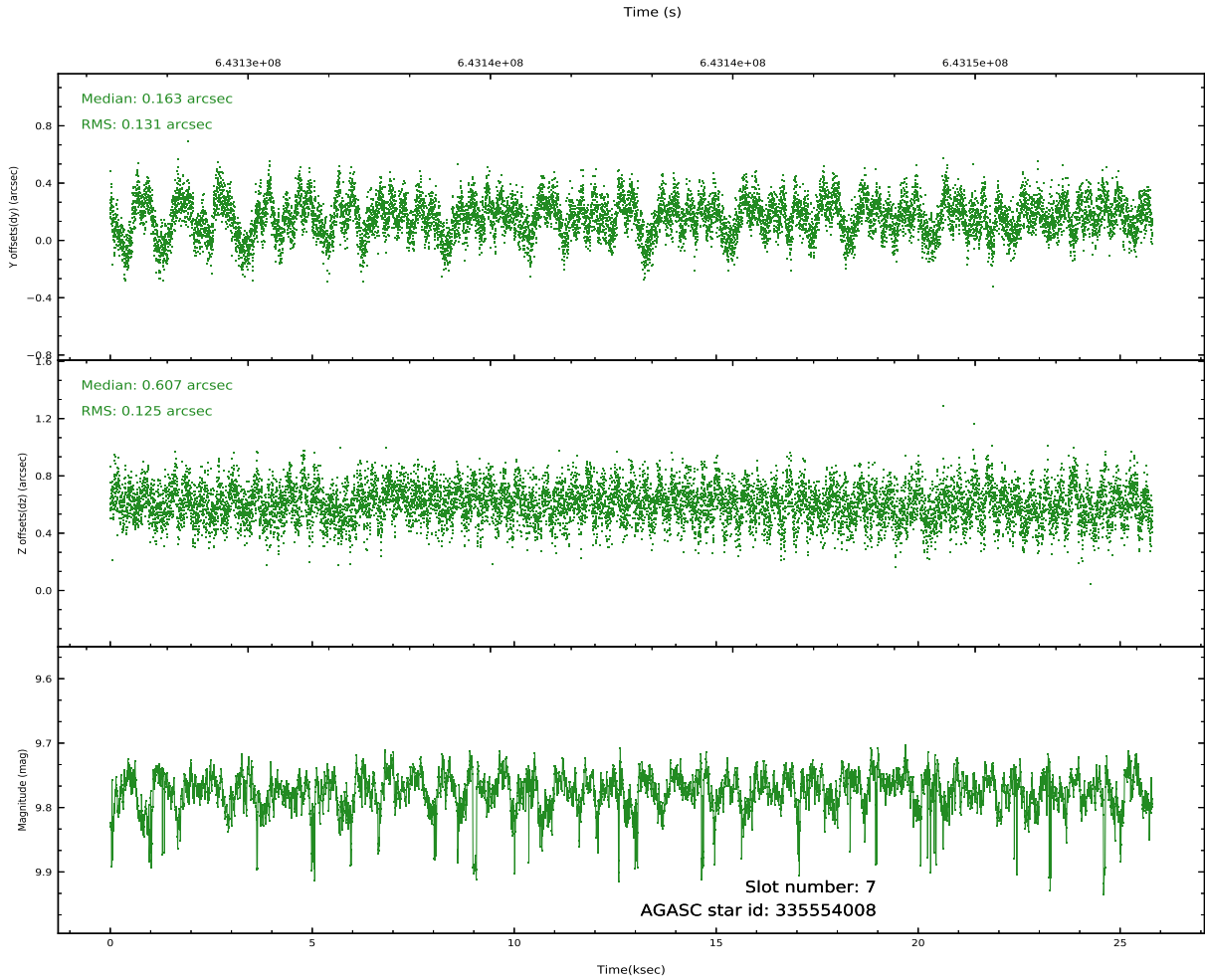
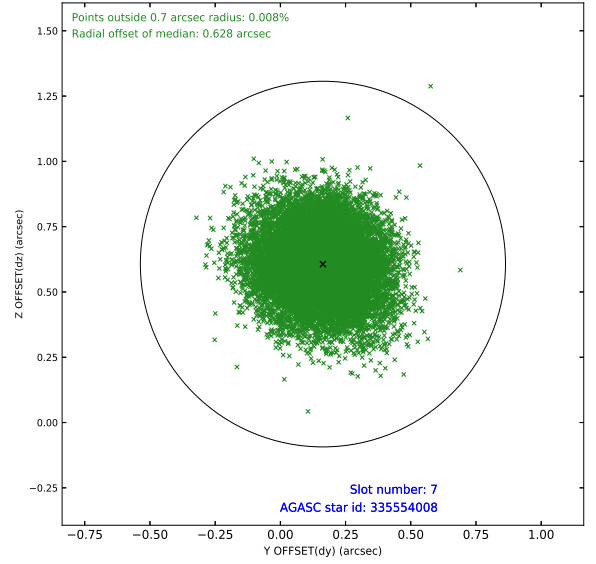
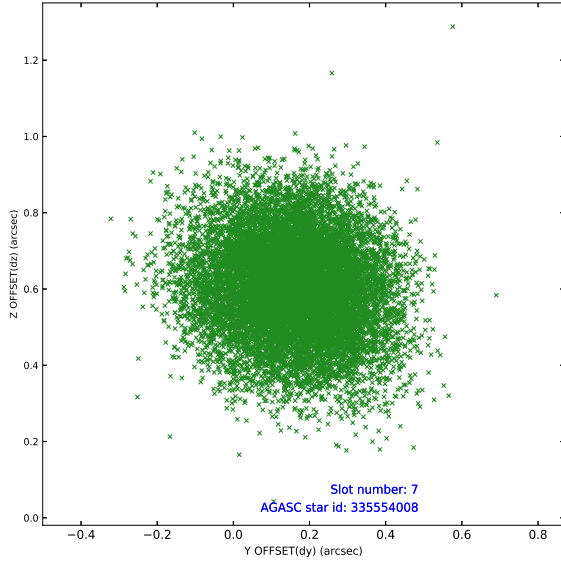
2.4.3 Slot 5



2.4.4 Slot 6

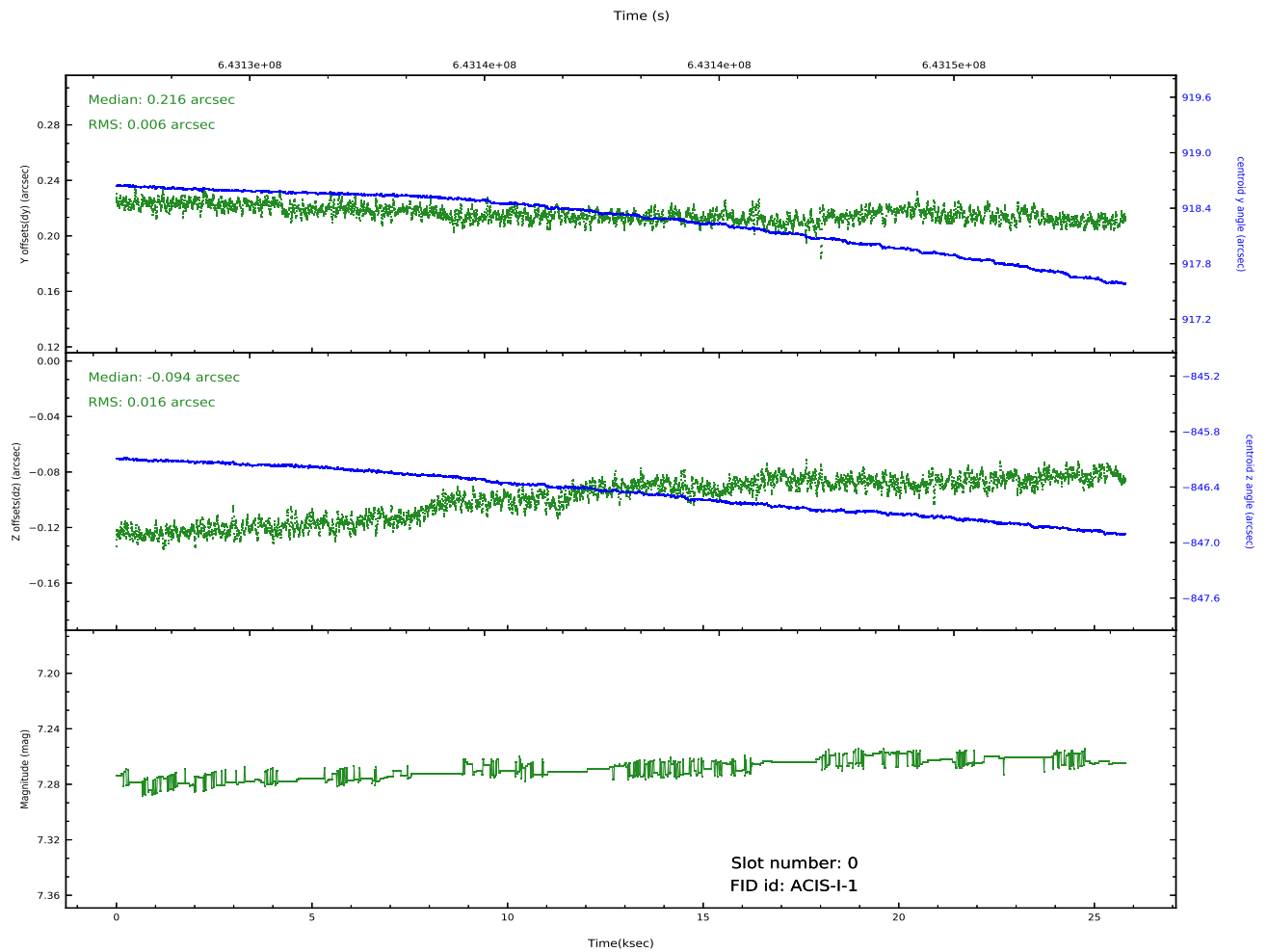
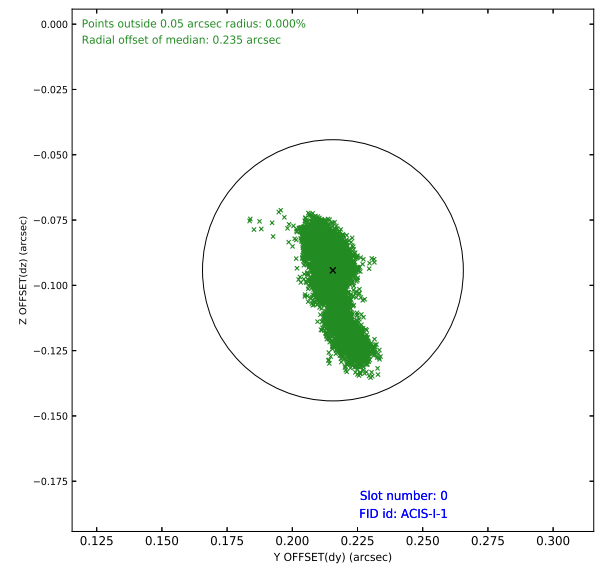
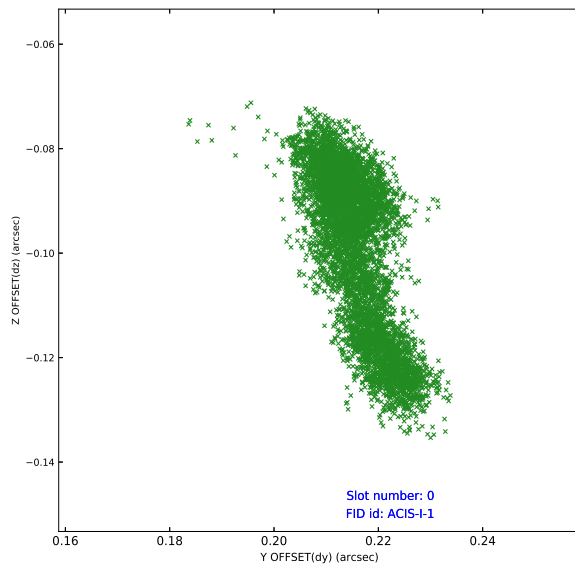


2.4.5 Slot 7

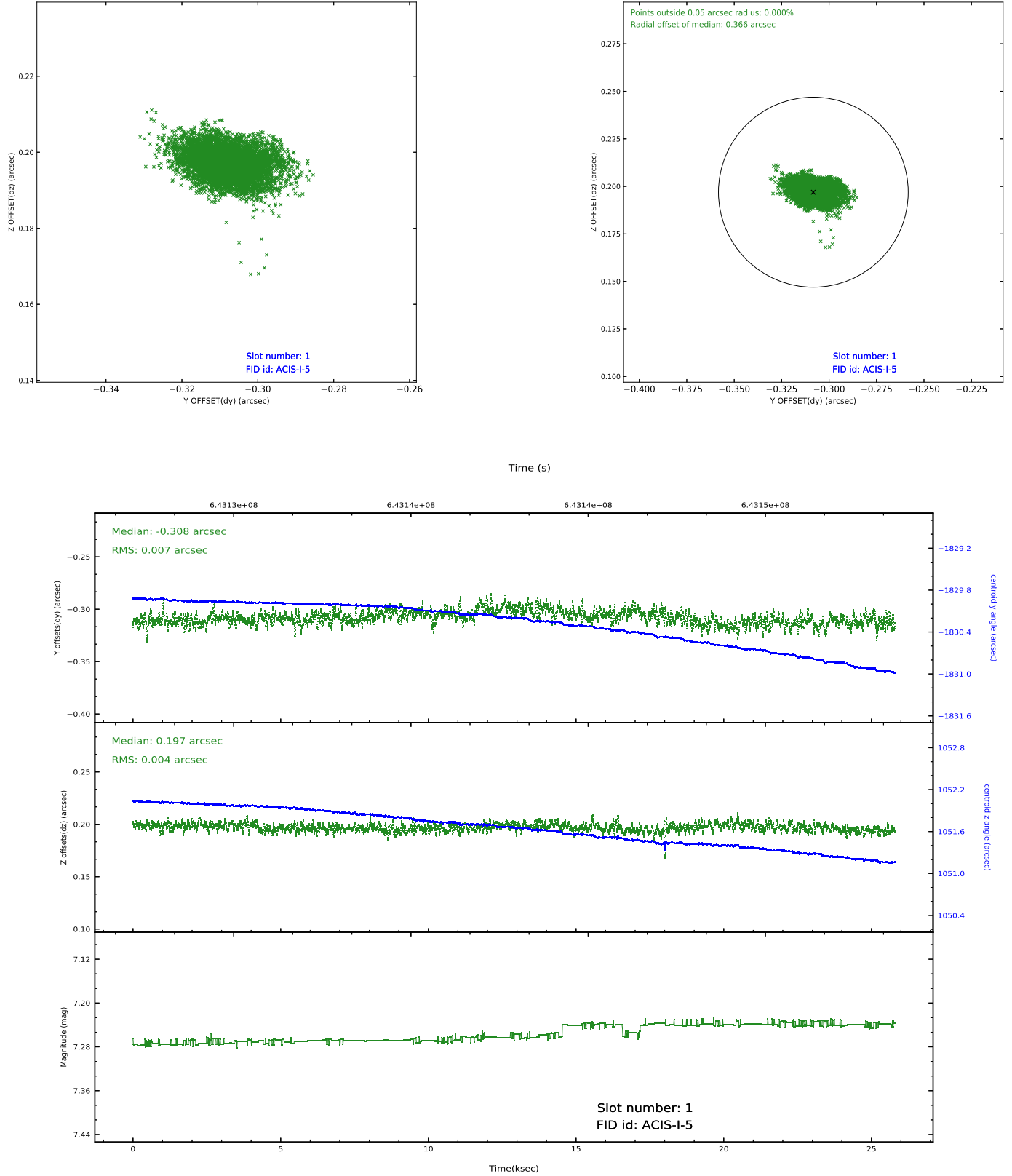


2.5 FID Slots

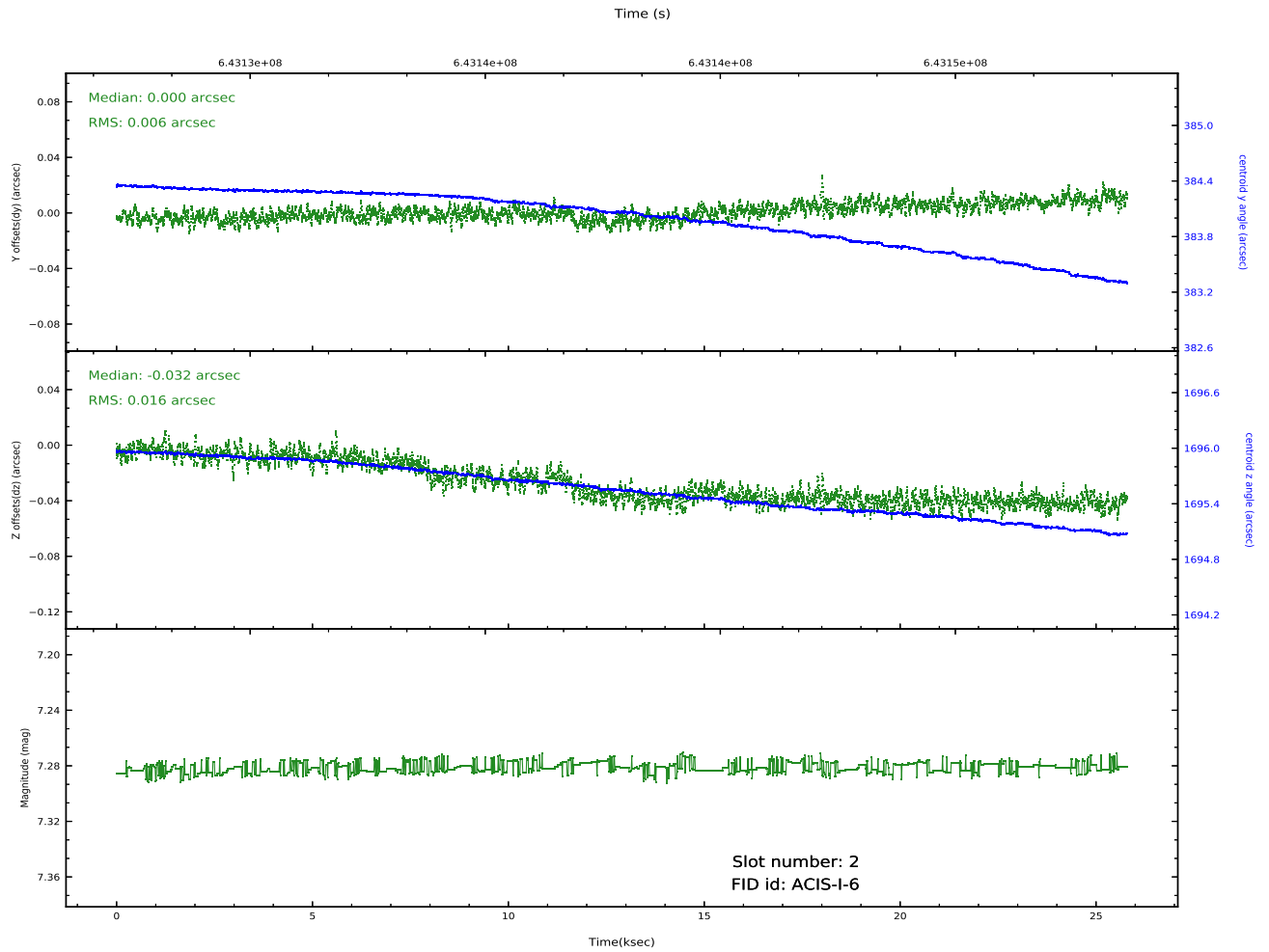
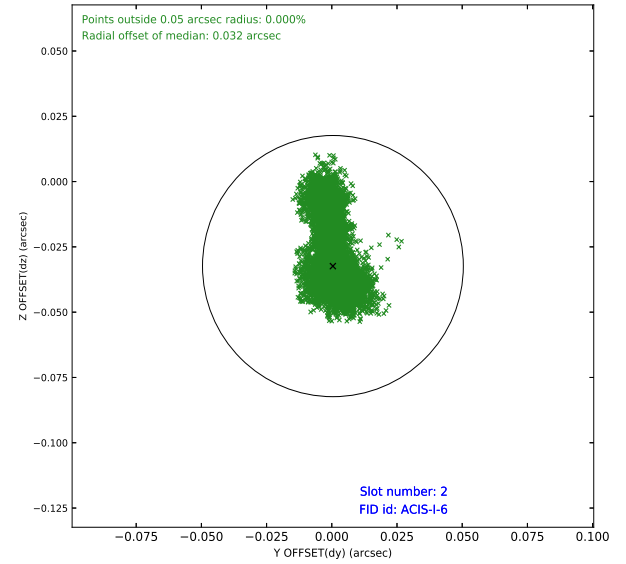
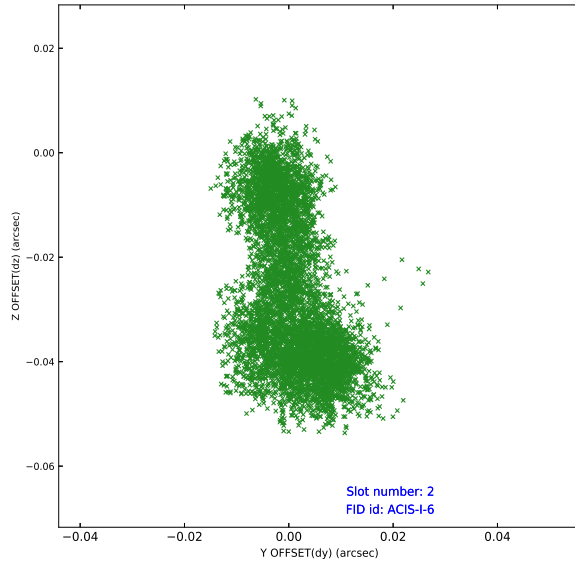
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.760119989157

A.2 Comments

Optional chip S3 not used.