

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20648 - L2 Version 2
Chandra X-Ray Center

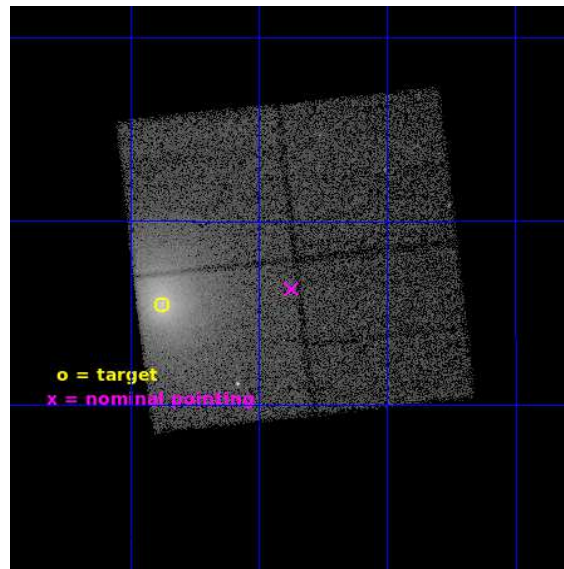
L2 Processing Date : Oct 25 2020

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1 Front

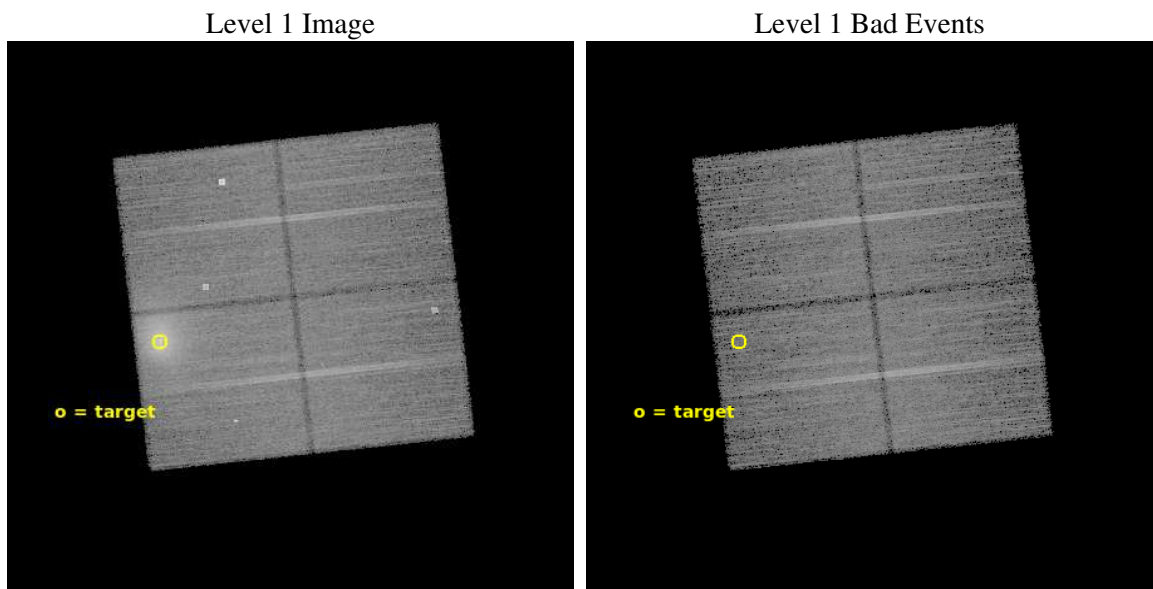
seq_num	890155	Sequence number
obs_id	20648	Observation id
title	AO-19 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.09263645246	Nominal RA [deg]
dec_nom	26.605484254897	Nominal Dec [deg]
roll_nom	173.59360929563	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25150.027965665	Sum of GTIs [s]
livetime	24821.424335112	Livetime [s]
ontime0	25143.622715354	Sum of GTIs [s]
ontime1	25153.086955905	Sum of GTIs [s]
ontime2	25146.845815182	Sum of GTIs [s]
ontime3	25150.027965665	Sum of GTIs [s]
l2events	176665	Number of level 2 events



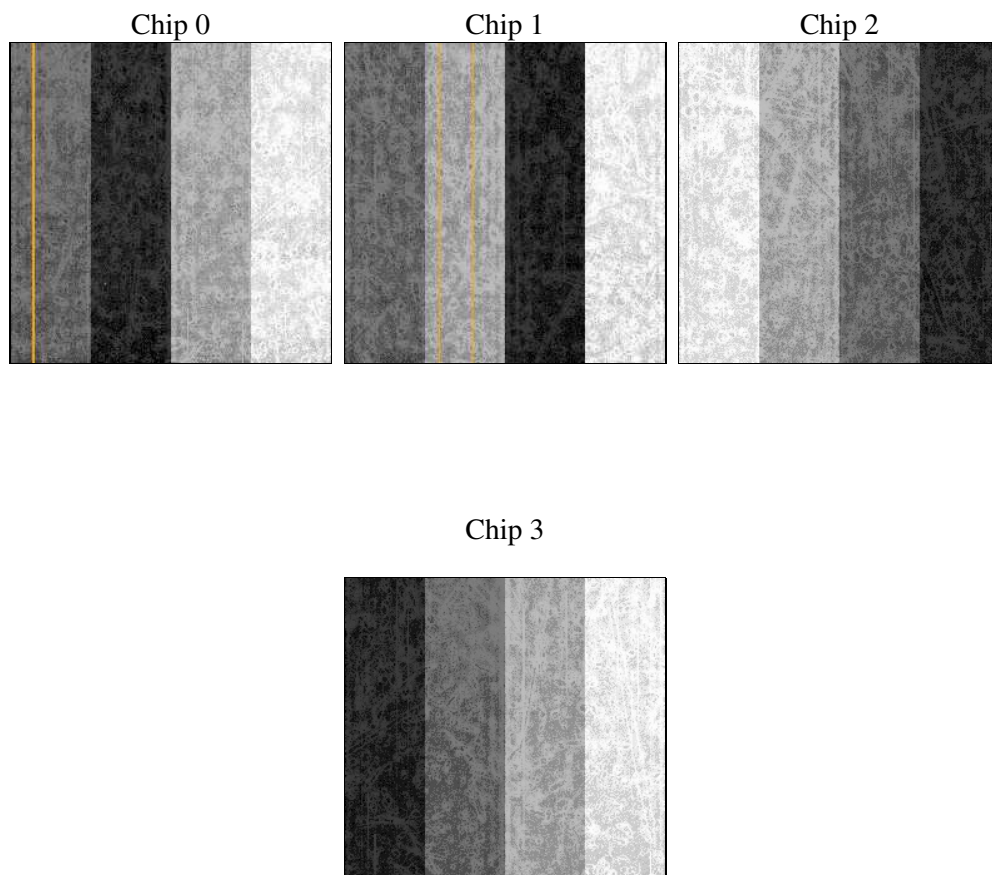
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25071.922000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25150.027965665	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25143.622715354	Sum of GTIs [s]
date	2020-10-25T12:41:58	Date and time of file creation	ontime1	25153.086955905	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25146.845815182	Sum of GTIs [s]
			ontime3	25150.027965665	Sum of GTIs [s]
			l1events	859846	Number of level 1 events

2.1.4 Events

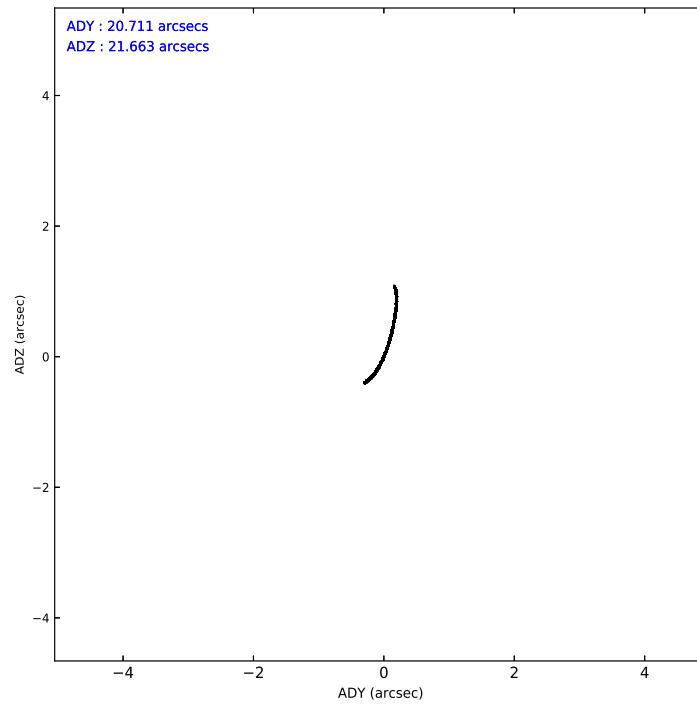
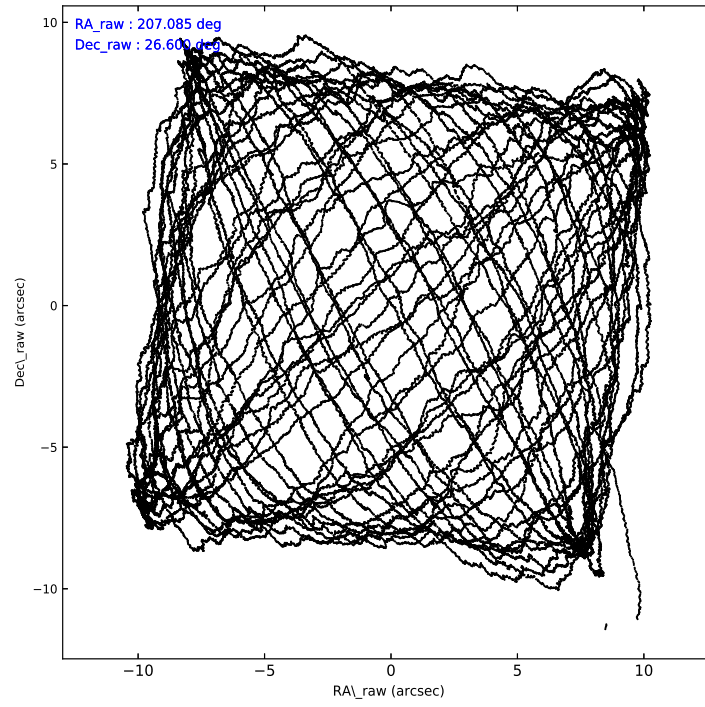
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	176973	207649	197621	277603
rejected events	154959	157656	174618	170410
rejected %	87%	75%	88%	61%

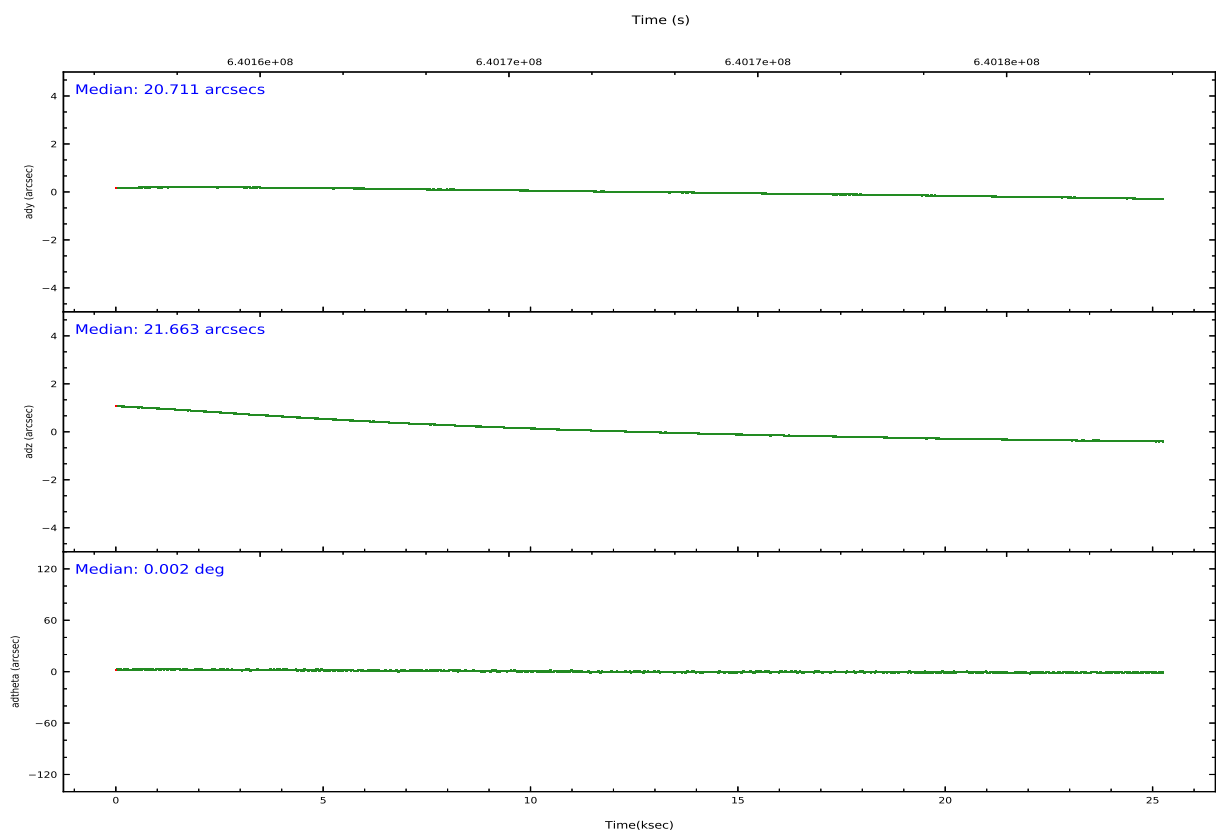
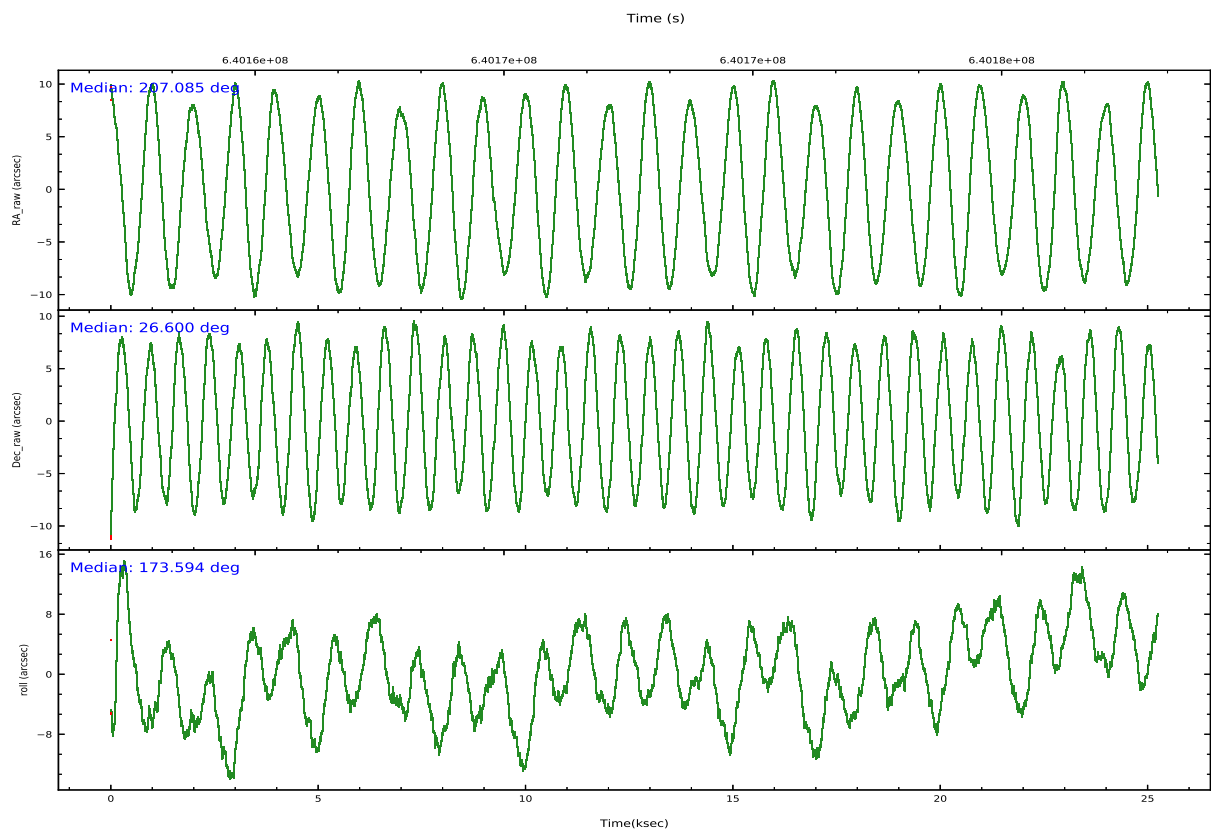
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7897	28291	9829	75074
	4%	13%	4%	27%
grade 1 events	89	208	125	434
	0%	0%	0%	0%
grade 2 events	5466	9896	5035	14344
	3%	4%	2%	5%
grade 3 events	2168	2892	2011	5335
	1%	1%	1%	1%
grade 4 events	1972	2863	2099	5254
	1%	1%	1%	1%
grade 5 events	7809	8205	7263	9291
	4%	3%	3%	3%
grade 6 events	4514	6056	4032	7201
	2%	2%	2%	2%
grade 7 events	147058	149238	167227	160670
	83%	71%	84%	57%

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	207.113414	207.09263645246	CCD I2 on	Y	Y
[deg] Pointing Dec	26.611089	26.605484254897	CCD I3 on	Y	Y
[deg] Pointing Roll	173.377532	173.59360929563	CCD S0 on	N	N
[s] Window start time (MET)	638928069.184000	638928069.184000	CCD S1 on	N	N
[s] Window stop time (MET)	641433669.184000	641433669.184000	CCD S2 on	O1	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S3 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S4 on	N	N
[mm] SIM translation stage pos	-230.252463	-230.248423740357	CCD S5 on	N	N
[mm] SIM translation stage offset	-3.34	-3.34402926257269	Number of optional ACIS chips dropped	1	1
[s] Observation start time (MET)	640158702.184000	640157545.80768	On-chip summing requested	N	N
Observation start date	2018-04-15T05:50:33	2018-04-15T05:32:25	Subarray requested	NONE	NONE
[s] Observation end time (MET)	640183774.184000	640184841.5592901	Alternating exposures requested	N	N
Observation end date	2018-04-15T12:48:25	2018-04-15T13:07:21	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



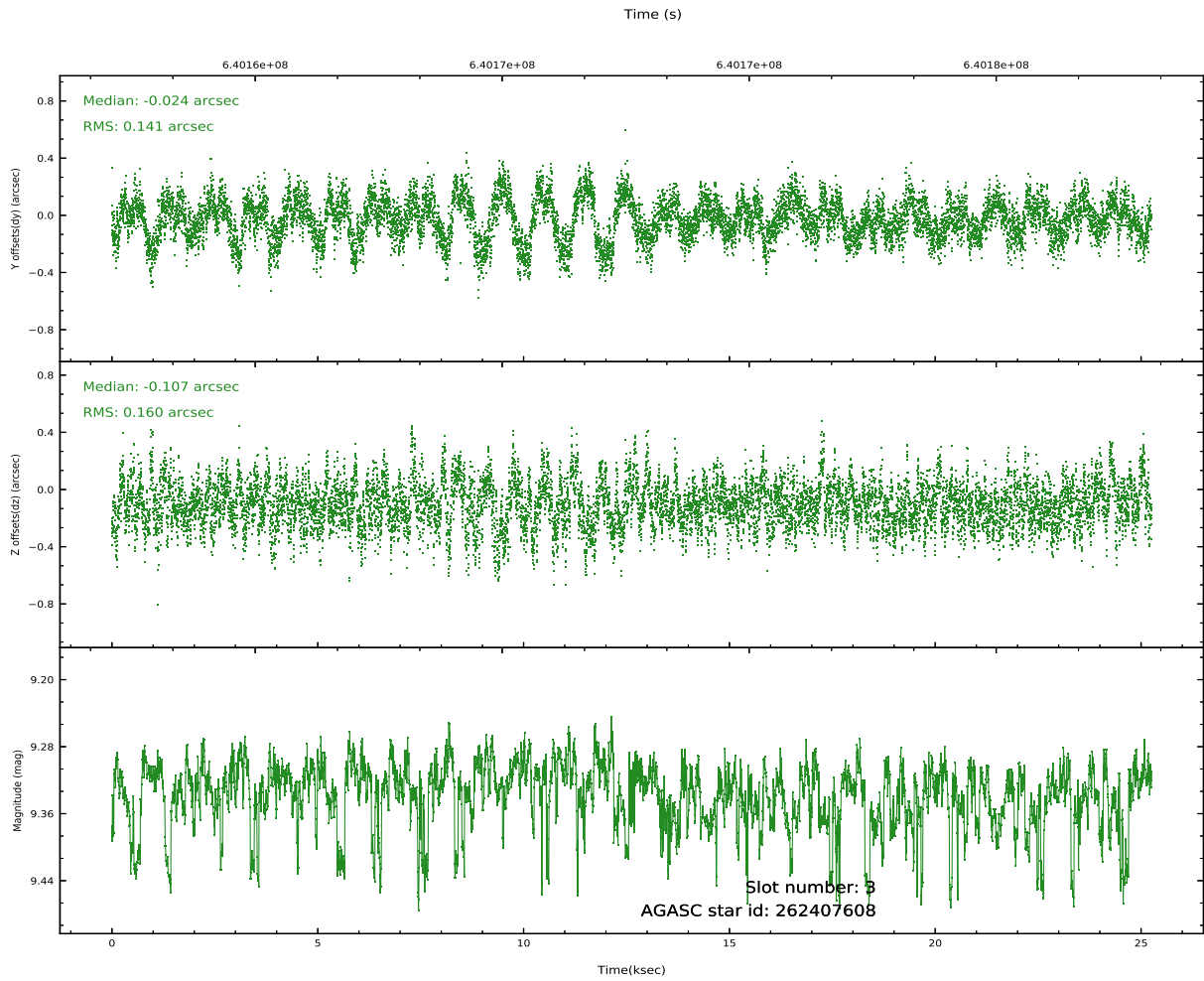
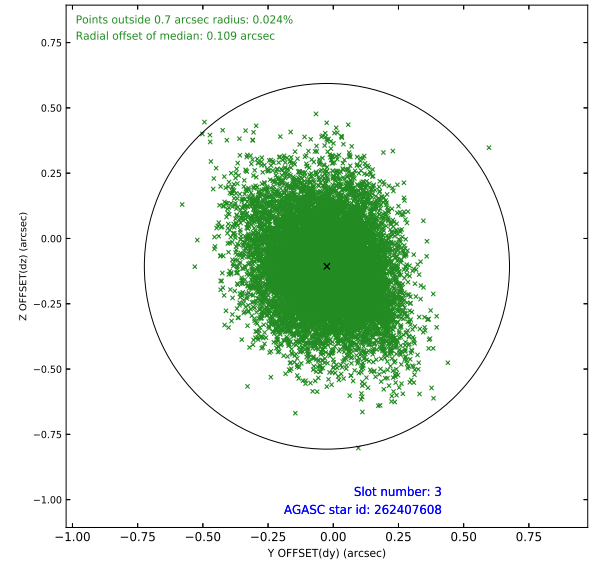
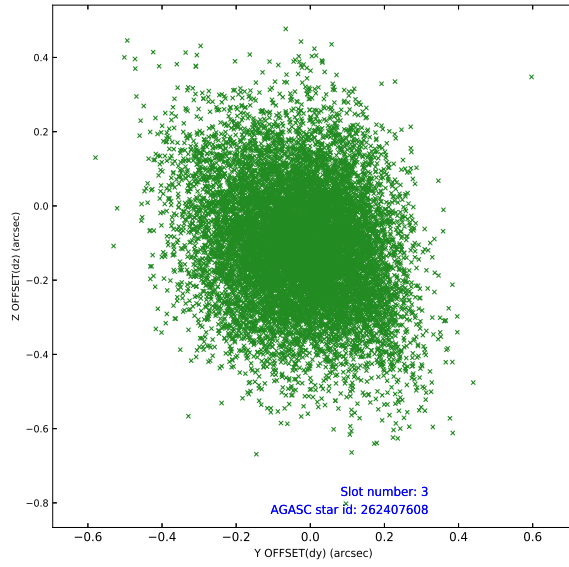


Slot Statistics

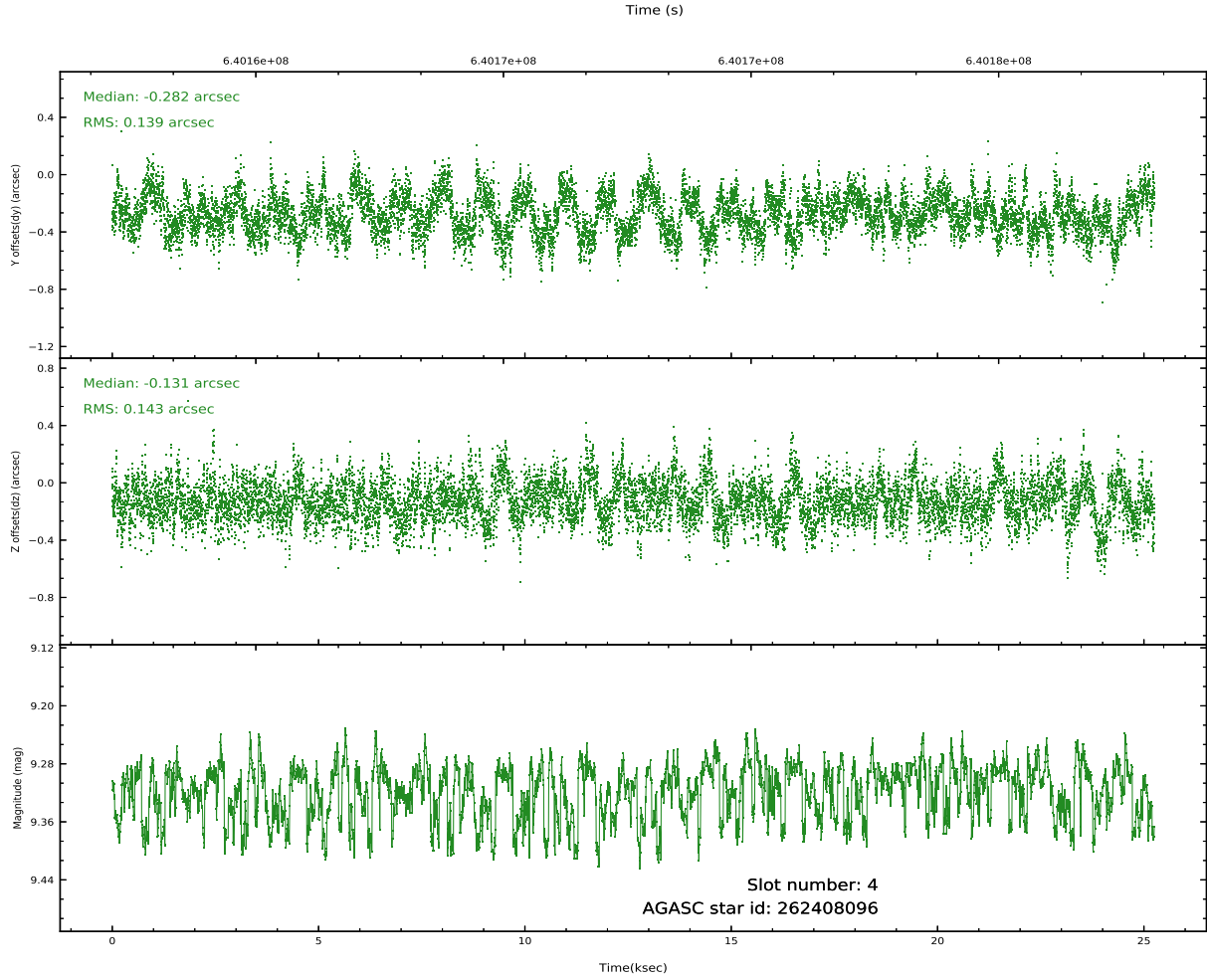
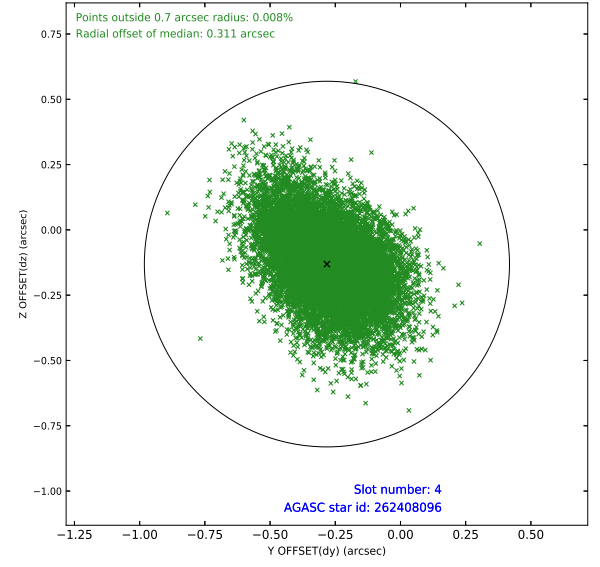
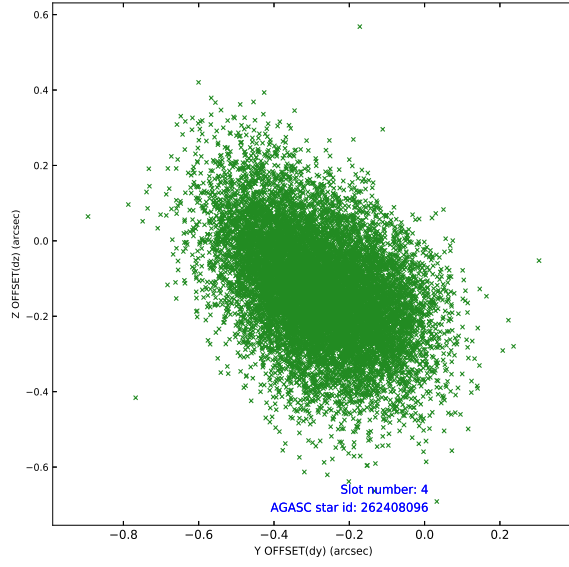
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	6160	1.000	0.259	-0.215	0.013	0.029	0.000000	0.000000	918.72	-914
1	FID		ACIS-I-5	7.19	6160	1.000	-0.316	0.215	0.014	0.028	0.000000	0.000000	-1829.75	983
2	FID		ACIS-I-6	7.19	6160	1.000	-0.036	0.071	0.018	0.053	0.000000	0.000000	384.03	1627
3	GUIDE	used	262407608	9.33	12304	1.000	-0.024	-0.107	0.224	0.374	207.378401	26.435507	-921.16	528
4	GUIDE	used	262408096	9.31	12303	1.000	-0.282	-0.131	0.211	0.351	207.011678	26.515421	286.57	379
5	GUIDE	used	262408512	7.97	12310	1.000	-0.141	0.149	0.155	0.250	207.800210	27.128796	-1969.78	-2110
6	GUIDE	used	262408936	9.64	12292	1.000	0.249	0.120	0.209	0.349	207.154731	26.726554	-83.82	-427
7	GUIDE	used	262275256	7.71	12315	1.000	0.192	-0.031	0.164	0.291	206.467522	27.226414	2310.74	-1967

2.4 Star Slots

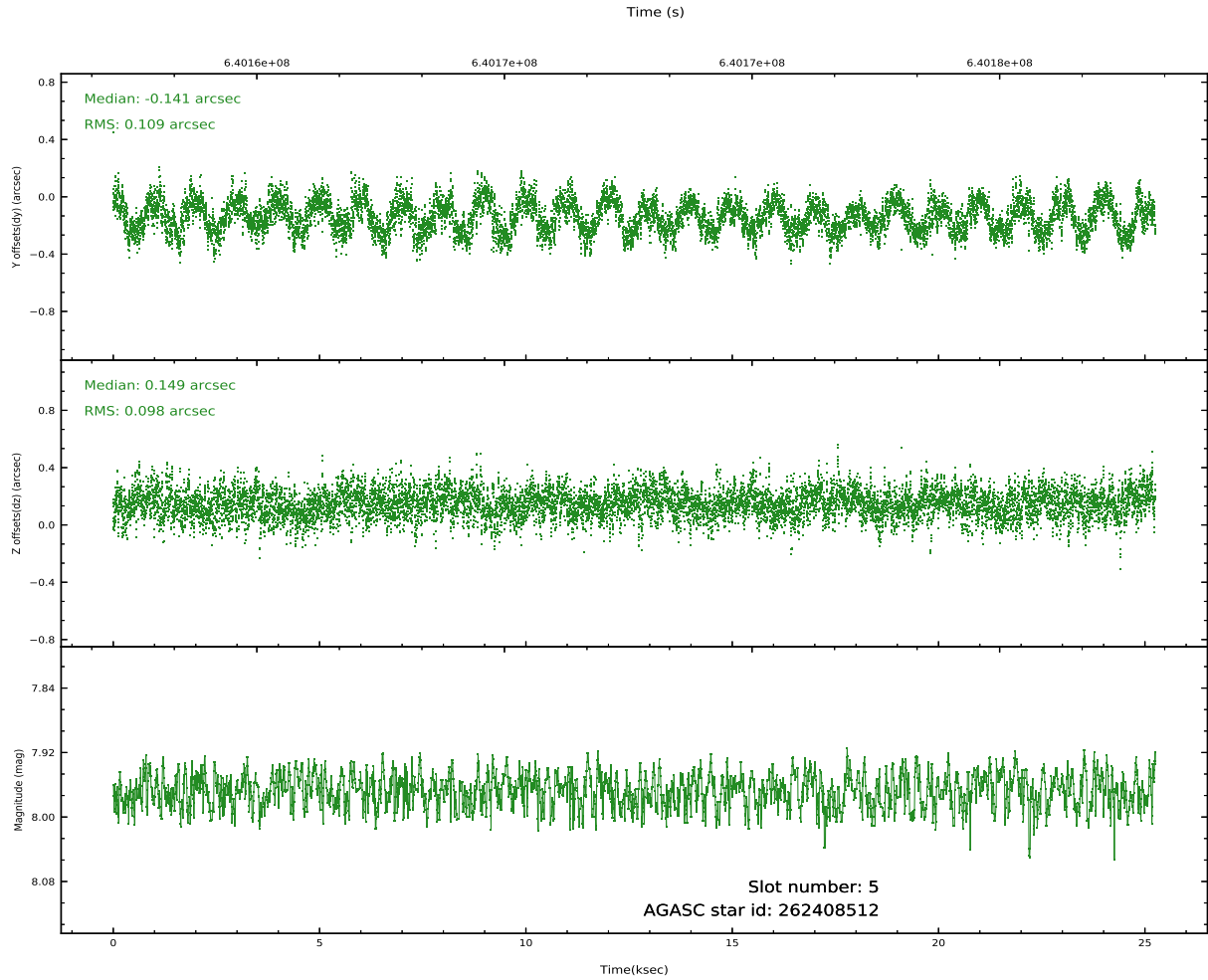
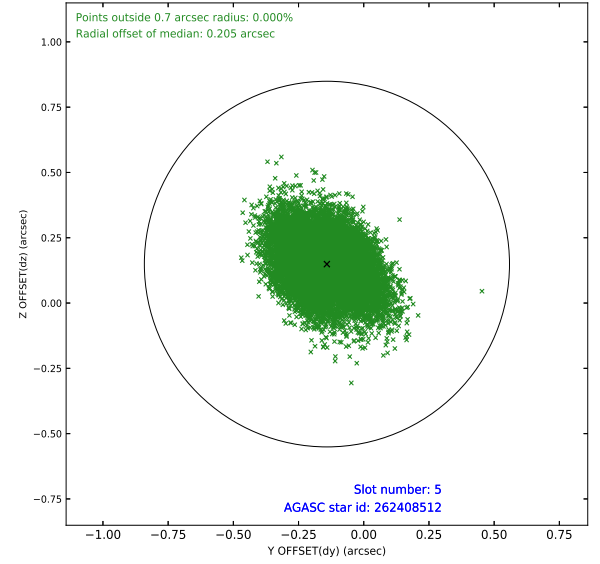
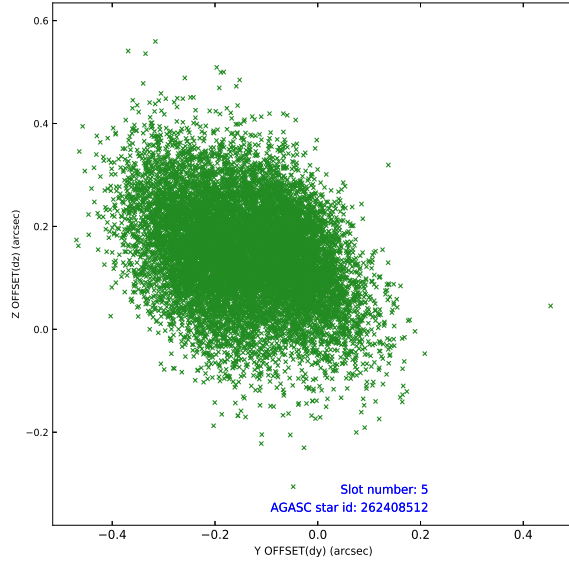
2.4.1 Slot 3



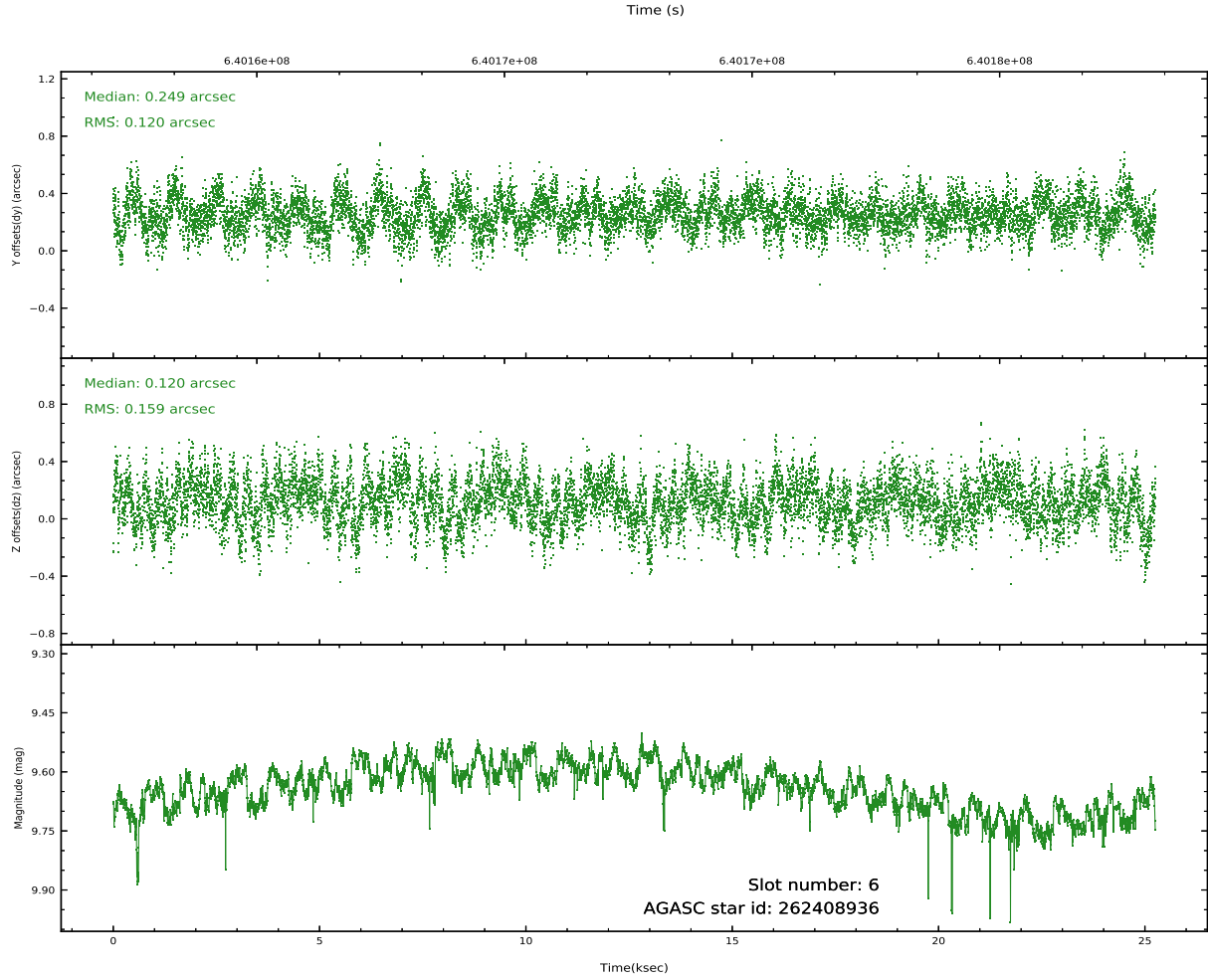
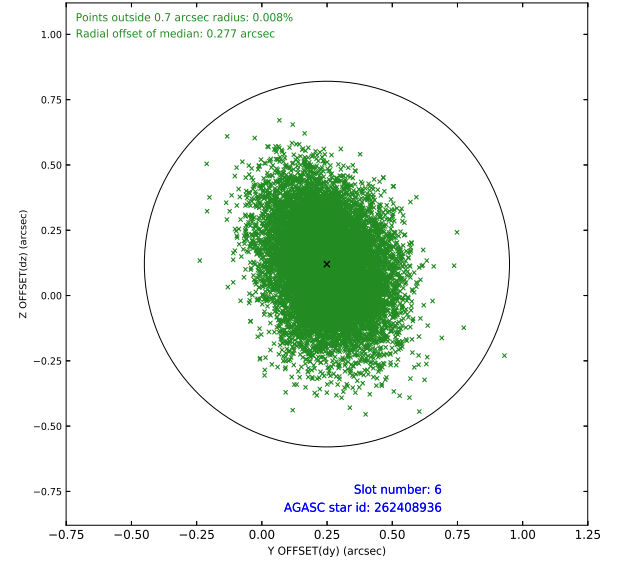
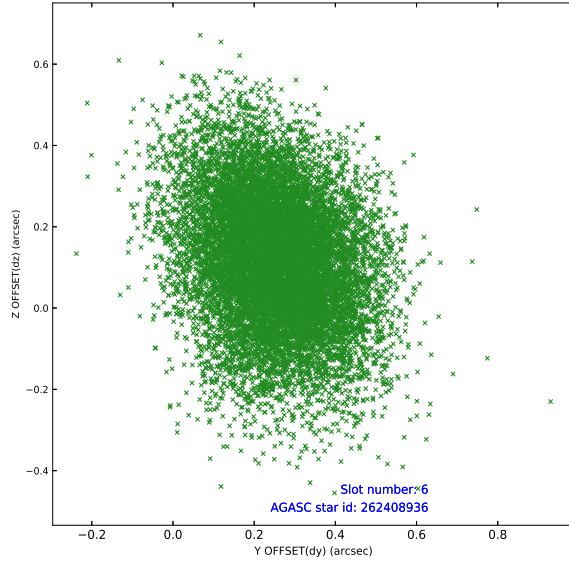
2.4.2 Slot 4



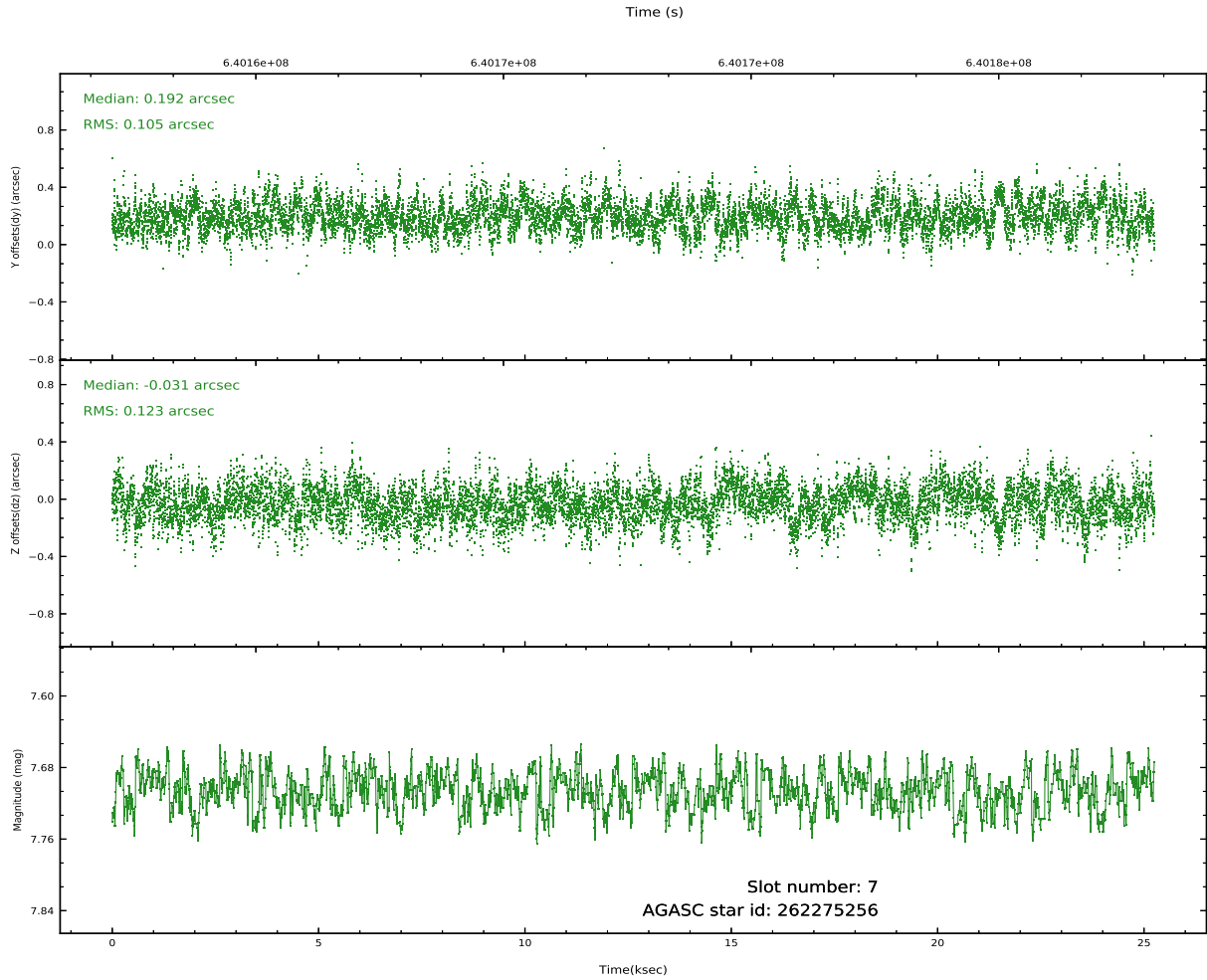
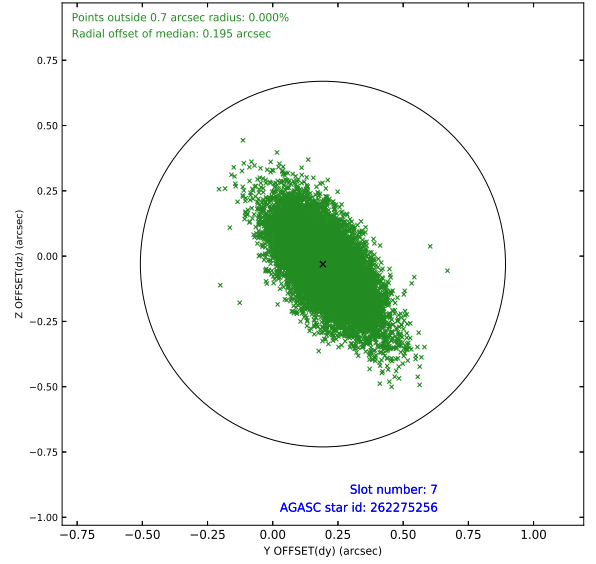
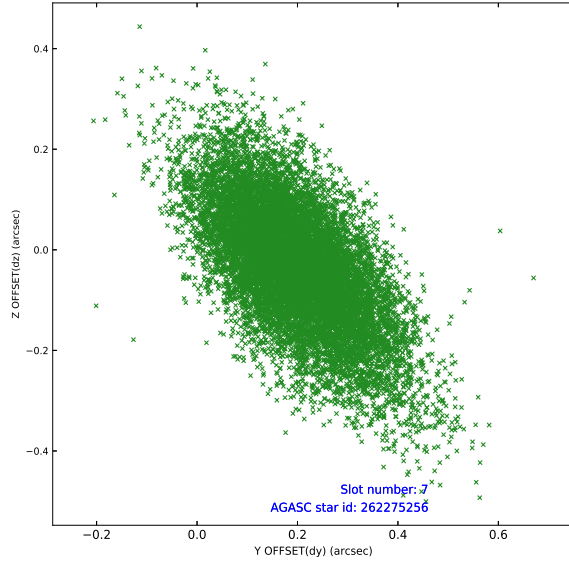
2.4.3 Slot 5



2.4.4 Slot 6

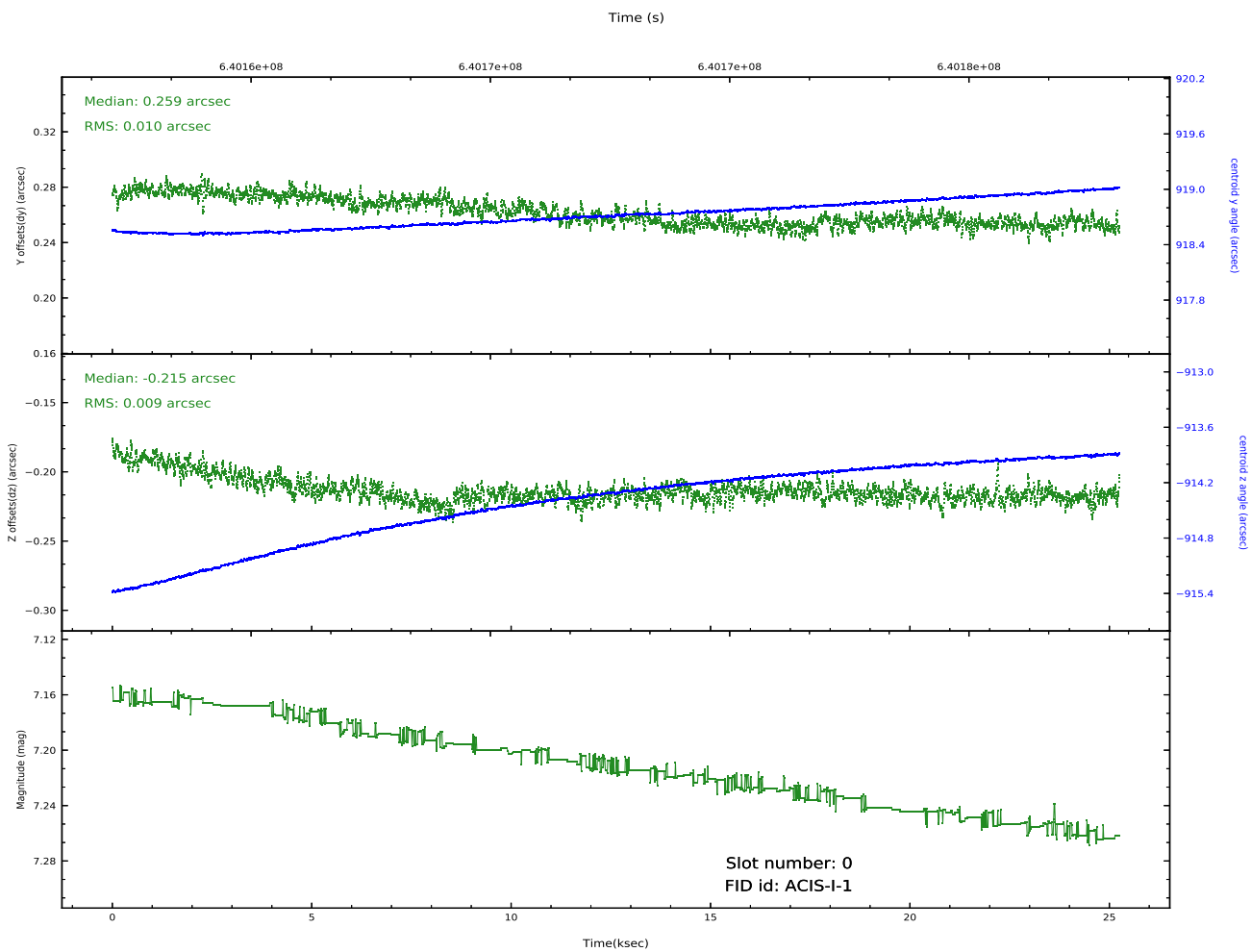
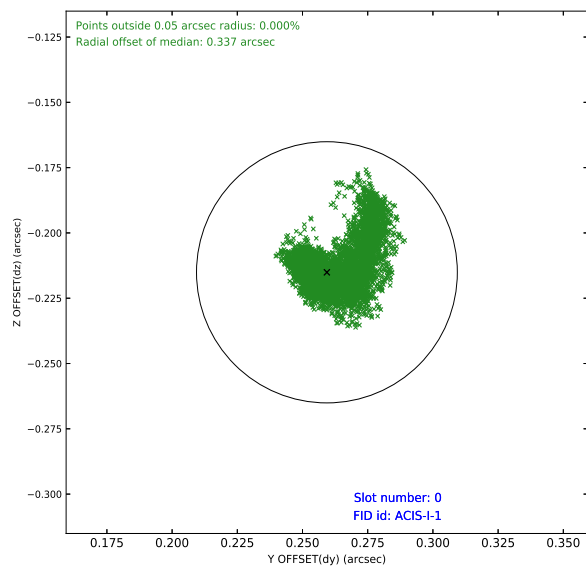
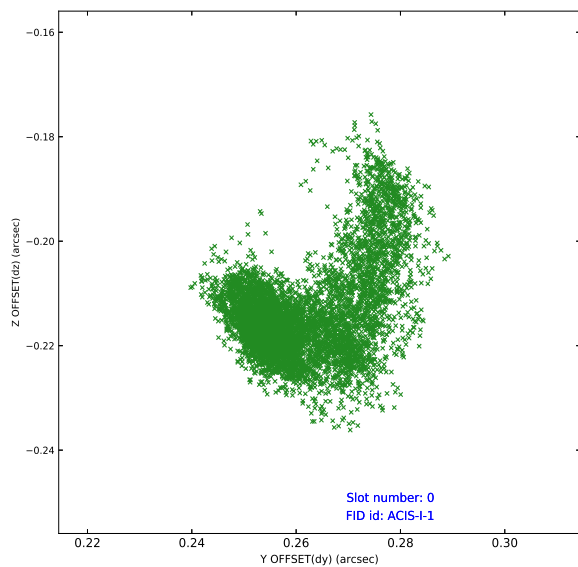


2.4.5 Slot 7

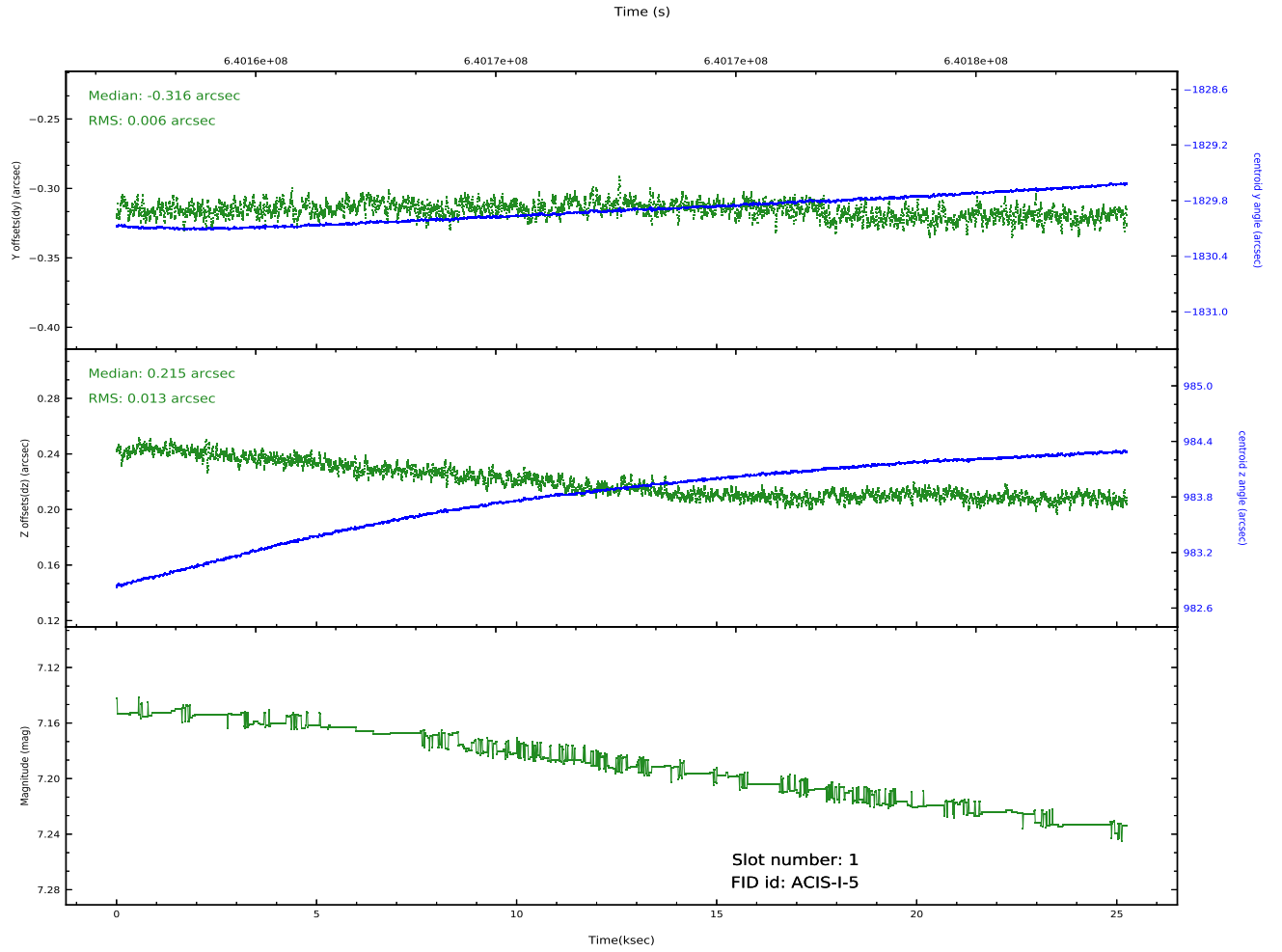
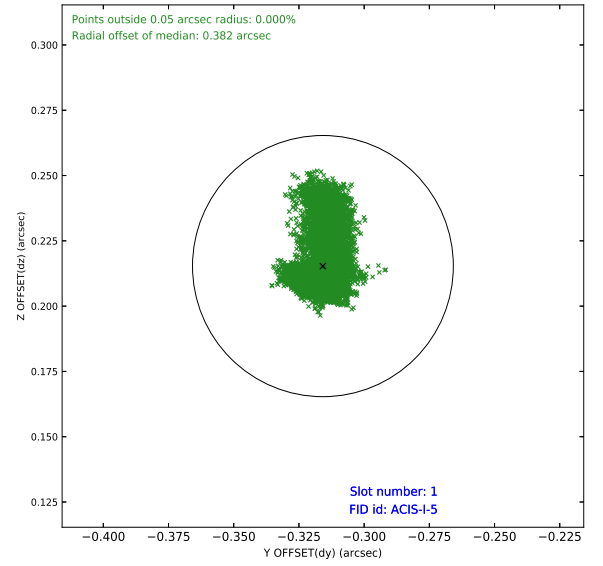
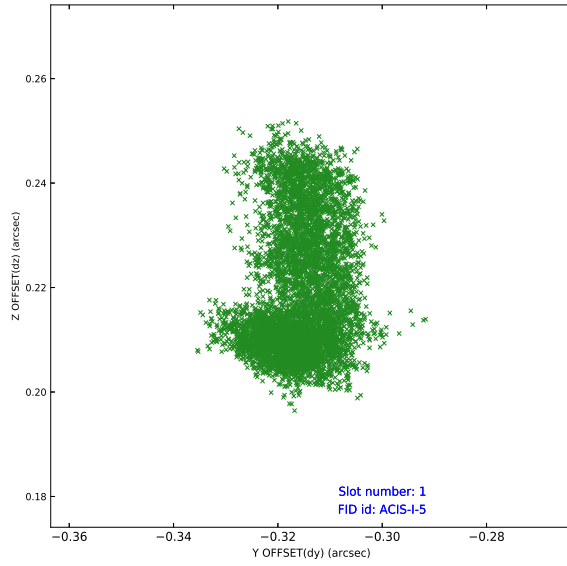


2.5 FID Slots

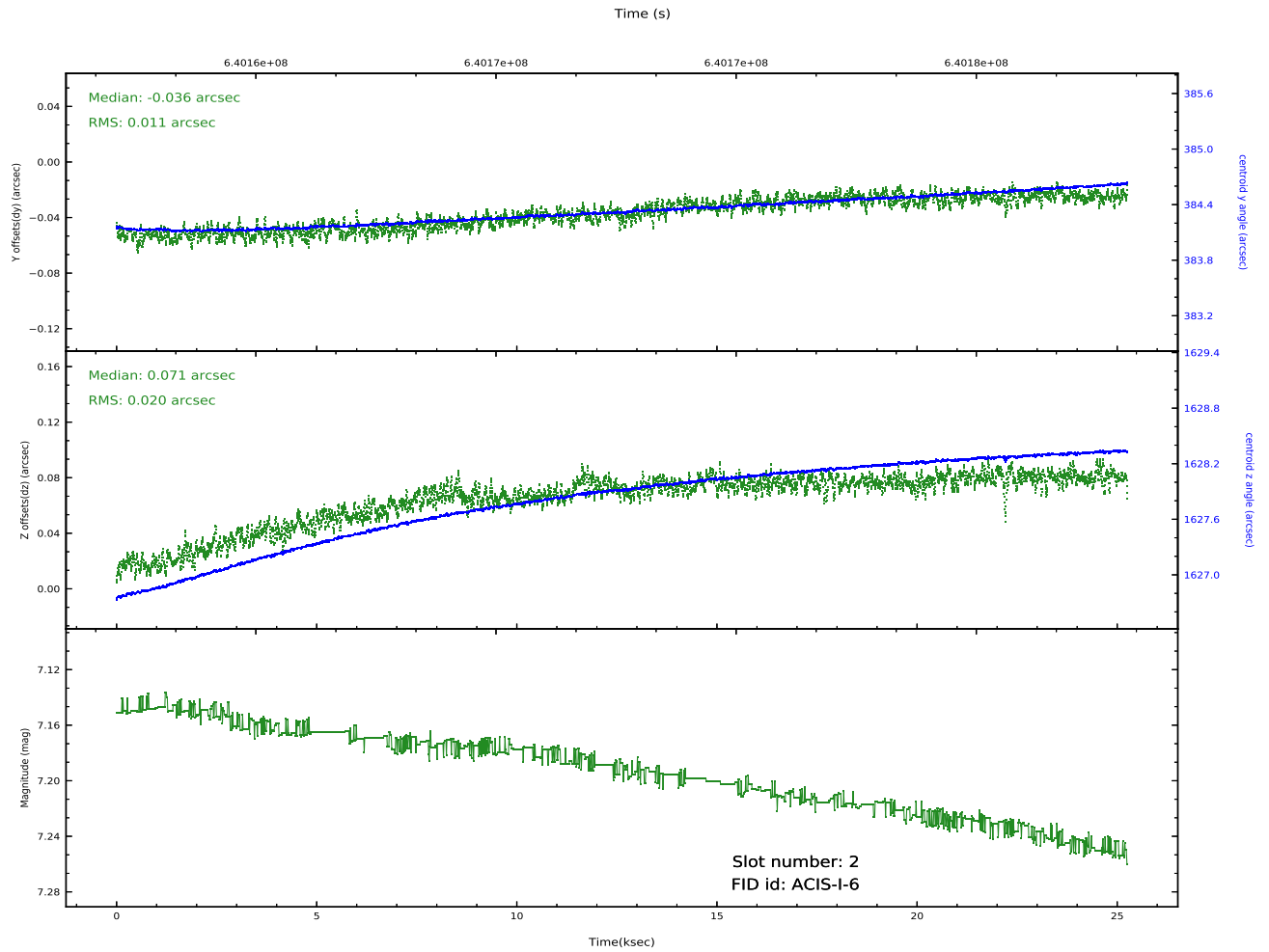
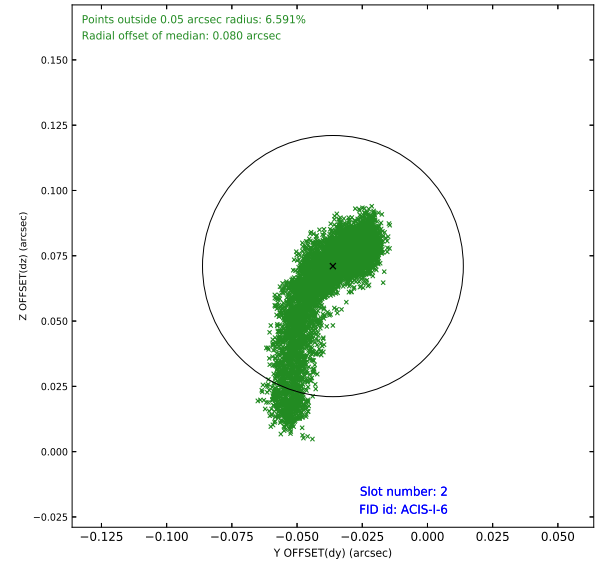
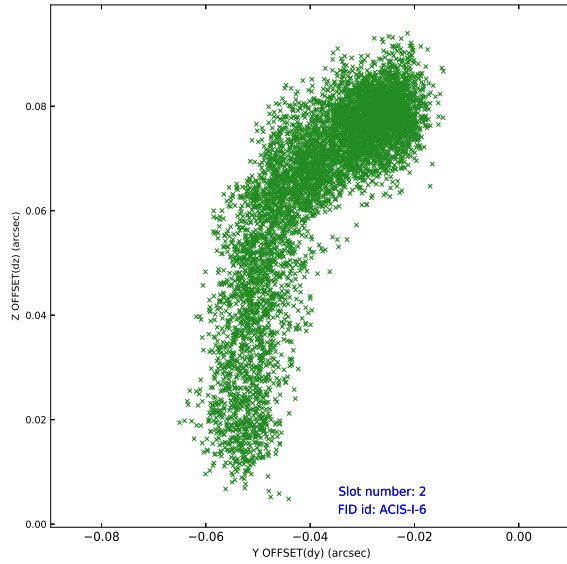
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.15002797246

A.2 Comments

Window constraint was met.

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One optional chip was dropped.