

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21025 - L2 Version 2
Chandra X-Ray Center

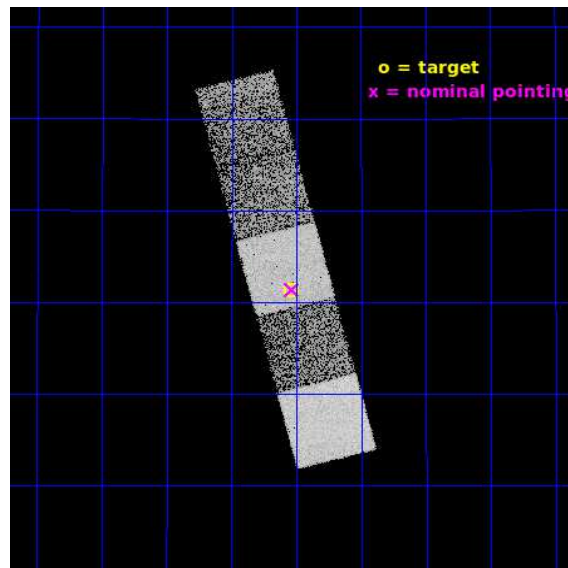
L2 Processing Date : Oct 28 2020

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1 Front

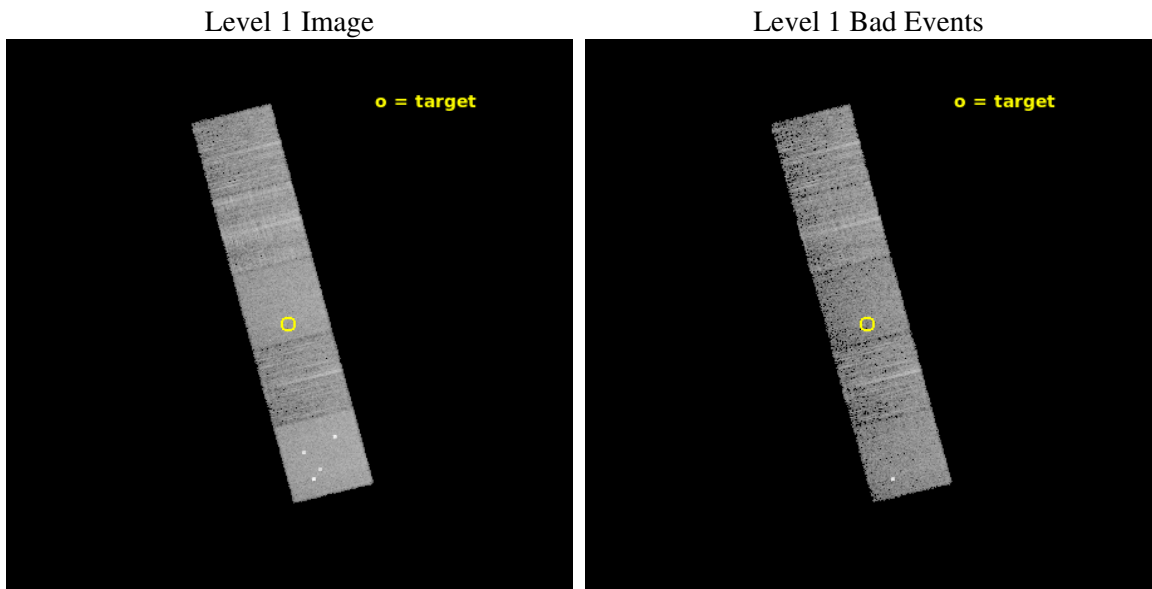
seq_num	703666	Sequence number
obs_id	21025	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC 1230	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.385417	Observer's specified target RA [deg]
dec_targ	25.521111	Observer's specified target Dec [deg]
ra_nom	26.38352963917	Nominal RA [deg]
dec_nom	25.523063696996	Nominal Dec [deg]
roll_nom	255.40260053439	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5691.4447228909	Sum of GTIs [s]
livetime	5617.0818076056	Livetime [s]
ontime5	5691.4036829472	Sum of GTIs [s]
ontime6	5691.3626428843	Sum of GTIs [s]
ontime7	5691.4447228909	Sum of GTIs [s]
ontime8	5685.0395424366	Sum of GTIs [s]
ontime9	5691.2805628777	Sum of GTIs [s]
l2events	67348	Number of level 2 events



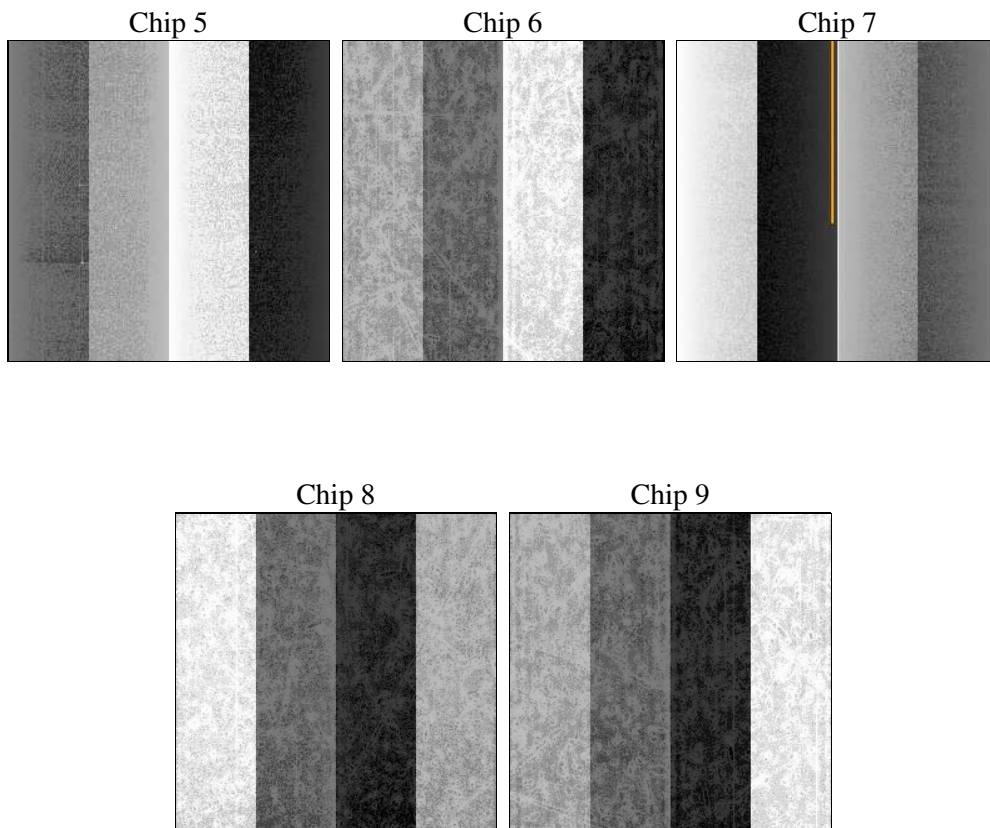
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5800.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5691.4447228909	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	5691.4036829472	Sum of GTIs [s]
date	2020-10-28T04:47:43	Date and time of file creation	ontime6	5691.3626428843	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	5691.4447228909	Sum of GTIs [s]
			ontime8	5685.0395424366	Sum of GTIs [s]
			ontime9	5691.2805628777	Sum of GTIs [s]
			l1events	269300	Number of level 1 events

2.1.4 Events

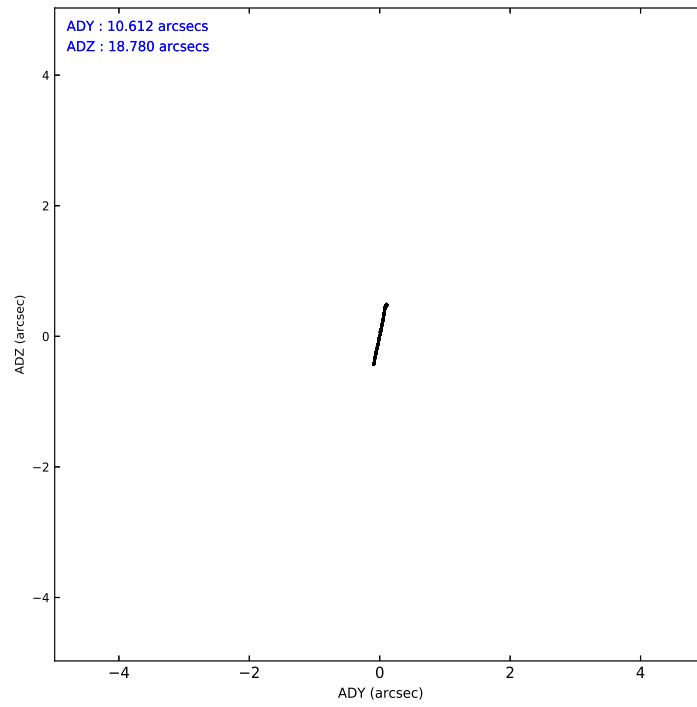
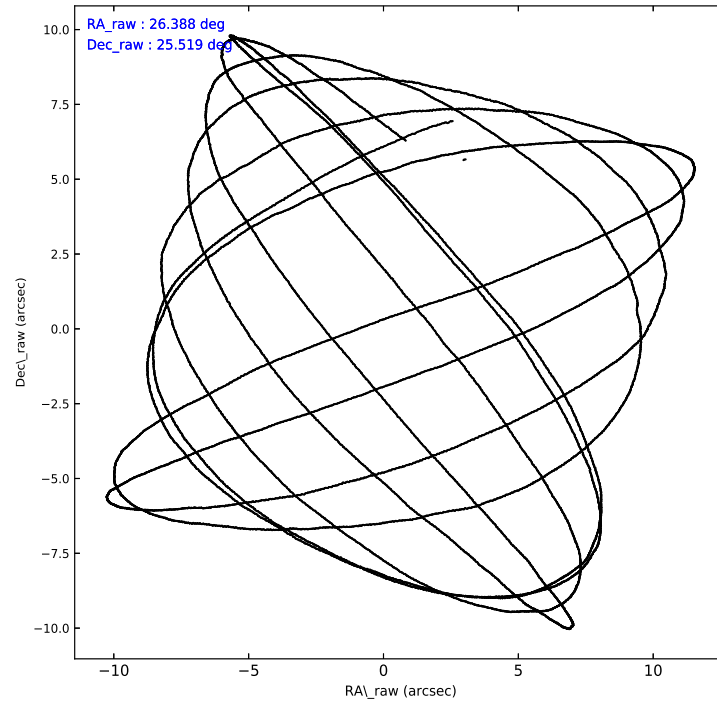
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	73027	40993	54683	58869	41728
rejected events	36869	36320	30934	43824	36445
rejected %	50%	88%	56%	74%	87%

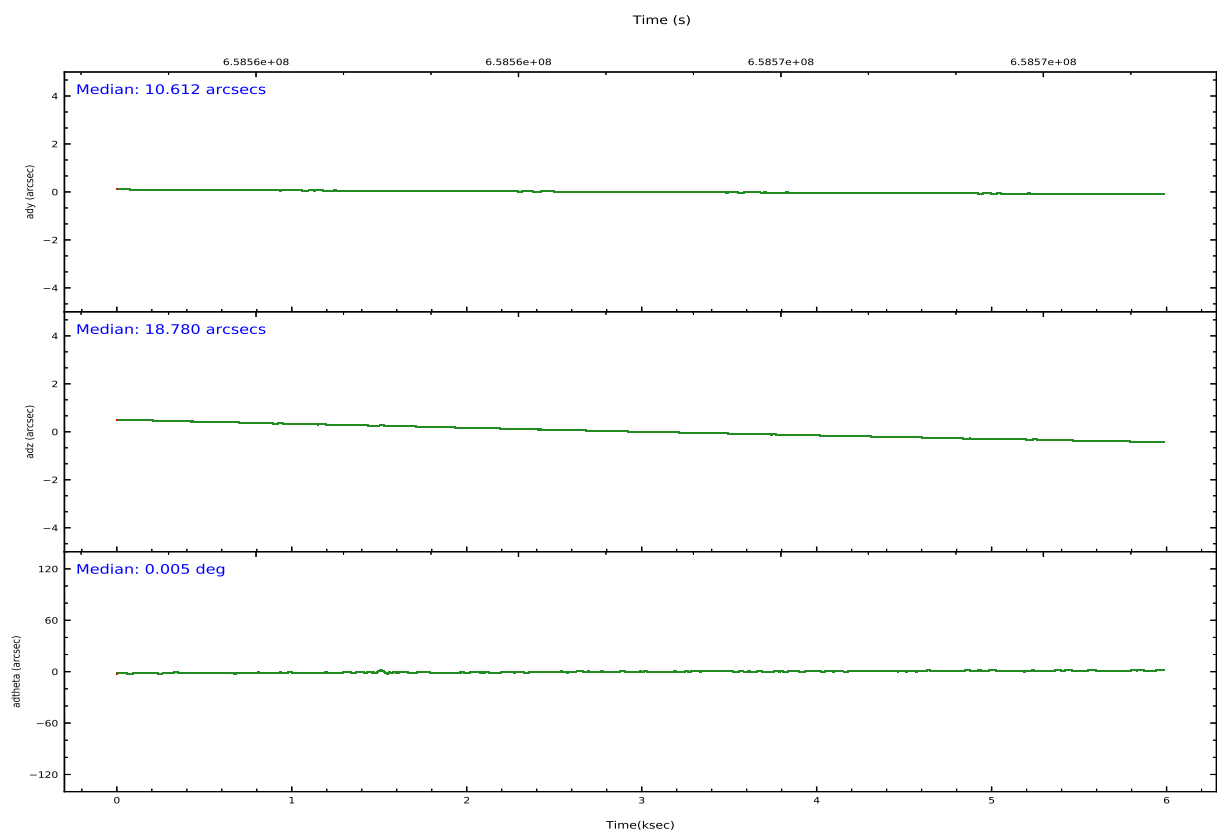
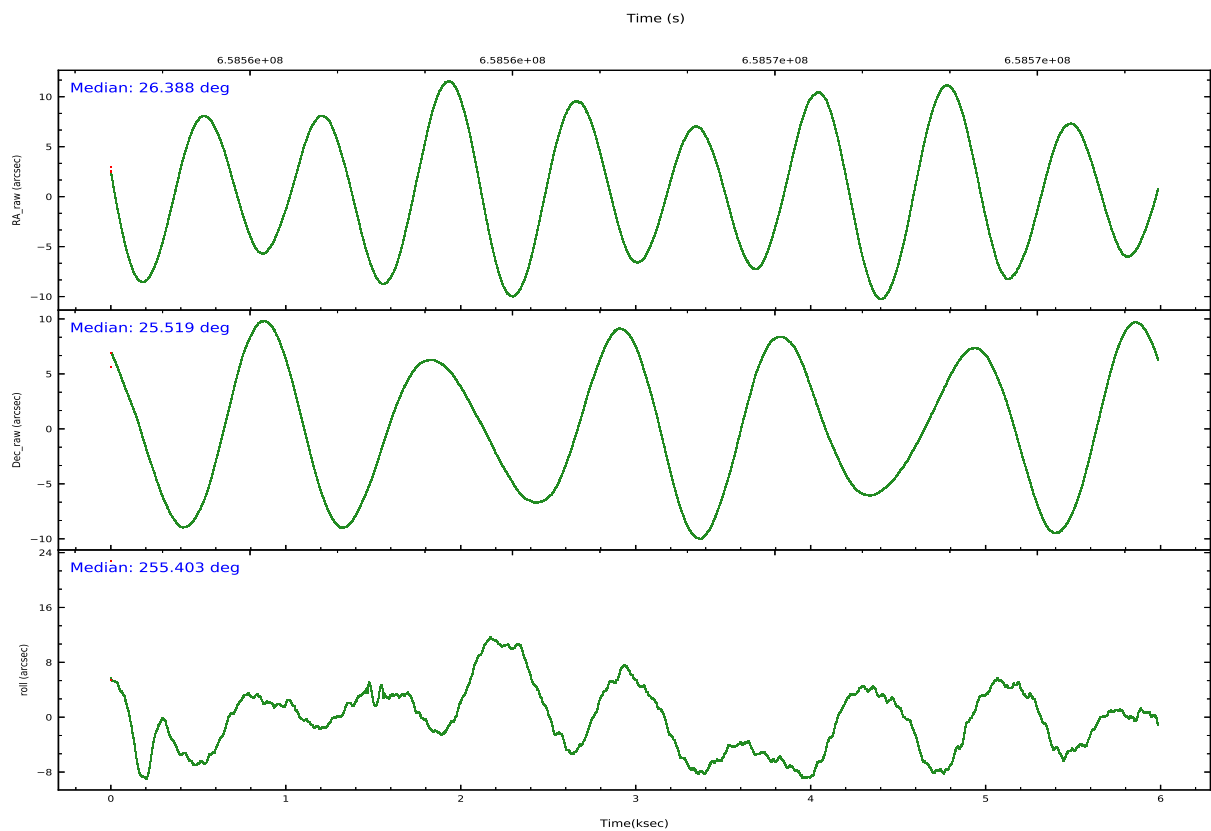
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	5717	1507	1903	4198	1846
	7%	3%	3%	7%	4%
grade 1 events	164	11	77	44	31
	0%	0%	0%	0%	0%
grade 2 events	10644	1105	5229	3709	1214
	14%	2%	9%	6%	2%
grade 3 events	1076	455	1859	1415	564
	1%	1%	3%	2%	1%
grade 4 events	961	483	1820	1400	480
	1%	1%	3%	2%	1%
grade 5 events	4725	2033	5420	3047	2218
	6%	4%	9%	5%	5%
grade 6 events	17779	1125	12956	4331	1181
	24%	2%	23%	7%	2%
grade 7 events	31961	34274	25419	40725	34194
	43%	83%	46%	69%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	26.380095	26.38352963917	CCD I2 on	N	N
[deg] Pointing Dec	25.545050	25.523063696996	CCD I3 on	N	N
[deg] Pointing Roll	255.260282	255.40260053439	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	658561891.184000	658561257.97868	CCD S5 on	O2	Y
Observation start date	2018-11-14T05:50:22	2018-11-14T05:40:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	658567691.184000	658568117.27909	On-chip summing requested	N	N
Observation end date	2018-11-14T07:27:02	2018-11-14T07:35:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



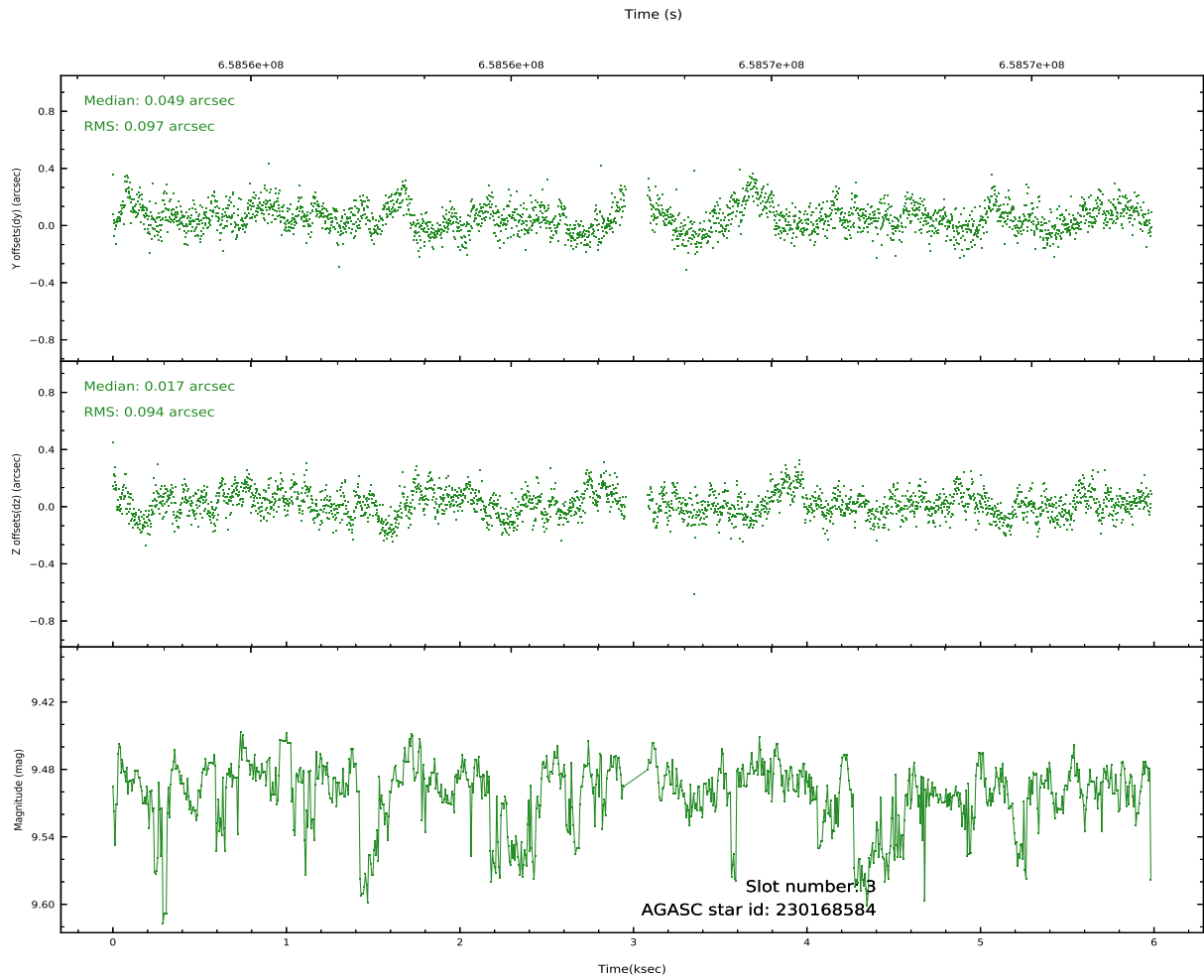
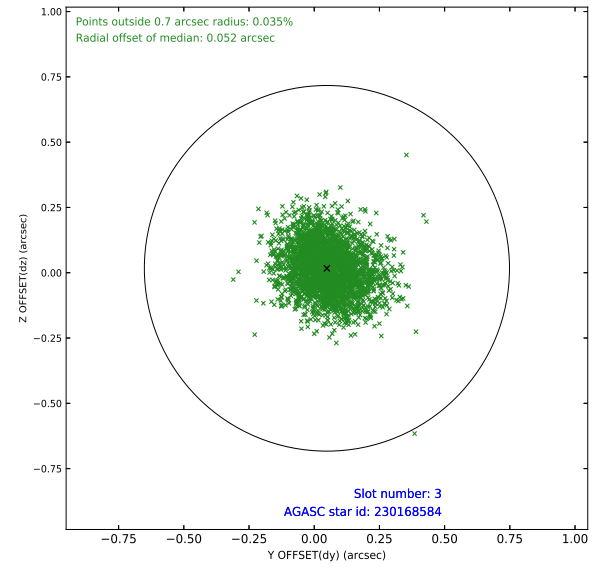
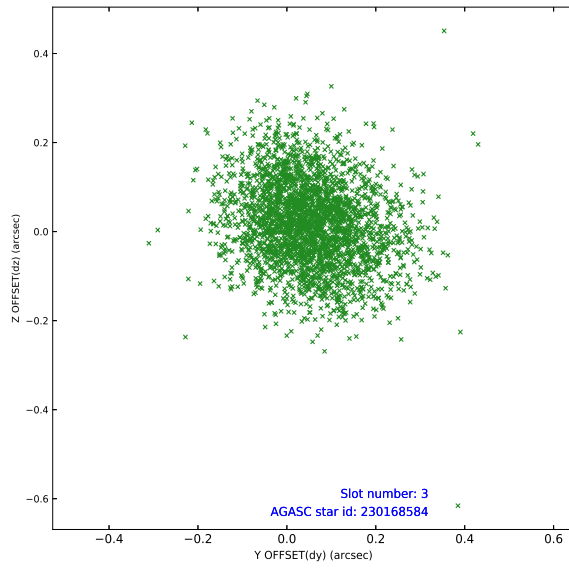


Slot Statistics

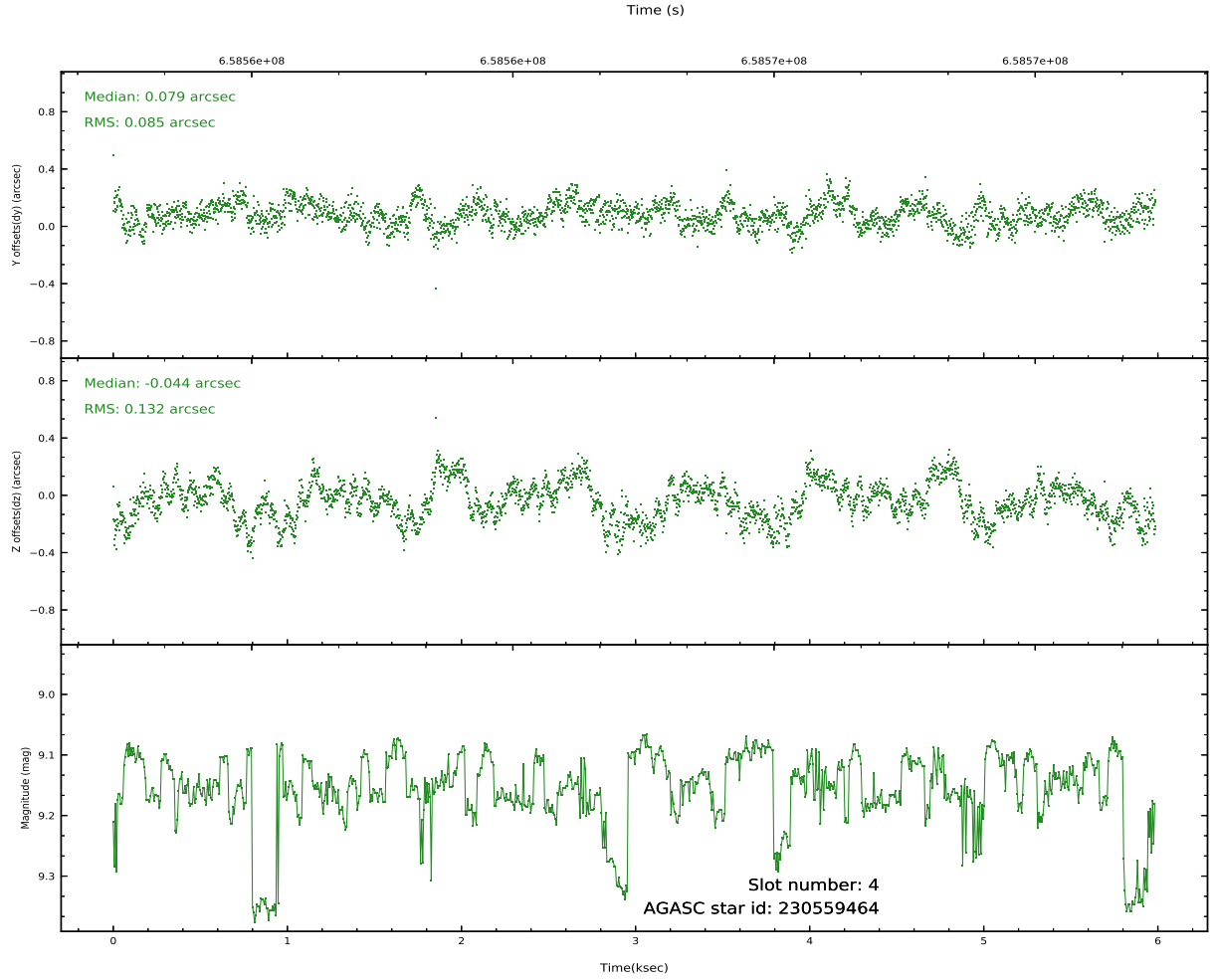
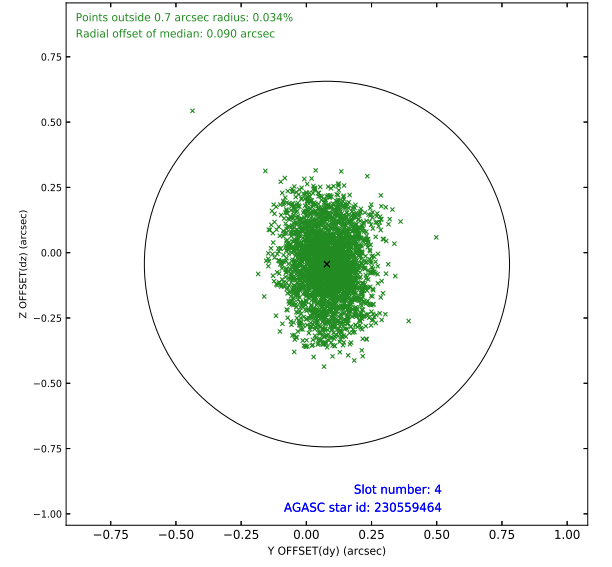
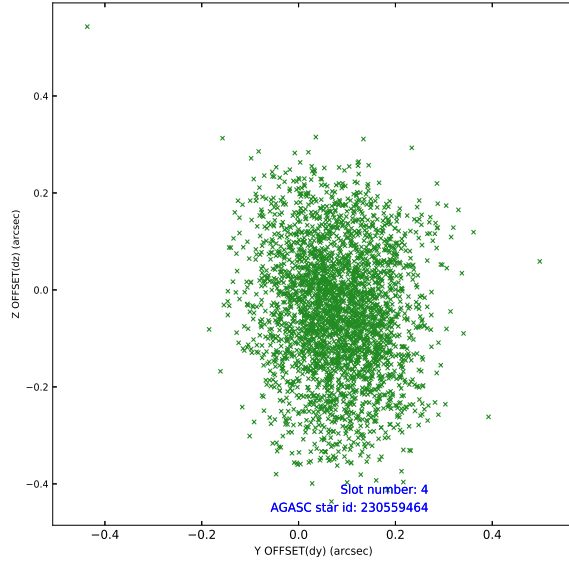
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	1461	1.000	0.140	-0.107	0.014	0.025	0.000000	0.000000	-763.59	-1740
1	FID		ACIS-S-4	7.13	1460	1.000	0.151	-0.038	0.006	0.011	0.000000	0.000000	2149.53	166
2	FID		ACIS-S-5	7.11	1461	1.000	-0.321	0.154	0.013	0.024	0.000000	0.000000	-1815.34	162
3	GUIDE	used	230168584	9.50	2853	1.000	0.049	0.017	0.145	0.232	26.447585	24.841048	2396.03	860
4	GUIDE	used	230559464	9.15	2919	1.000	0.079	-0.044	0.169	0.274	26.457028	25.033280	1719.13	712
5	GUIDE	used	230565840	9.43	2919	1.000	0.051	-0.037	0.159	0.257	26.729328	25.839513	-1313.73	824
6	GUIDE	used	230569504	8.17	2920	1.000	-0.224	-0.003	0.095	0.163	26.687039	25.918229	-1551.08	617
7	GUIDE	used	230570288	8.08	2920	1.000	0.030	0.072	0.117	0.189	26.198594	25.796582	-725.56	-799

2.4 Star Slots

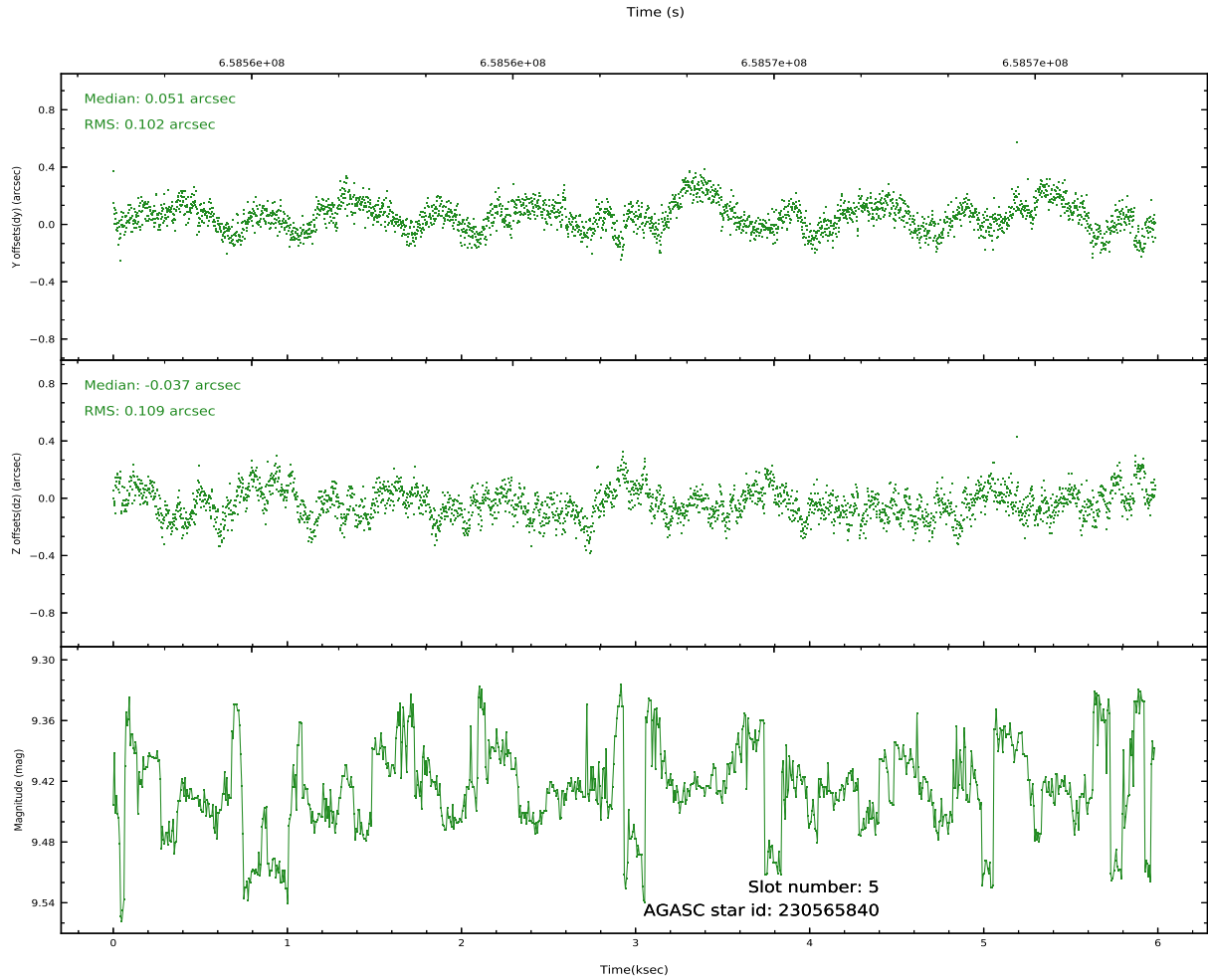
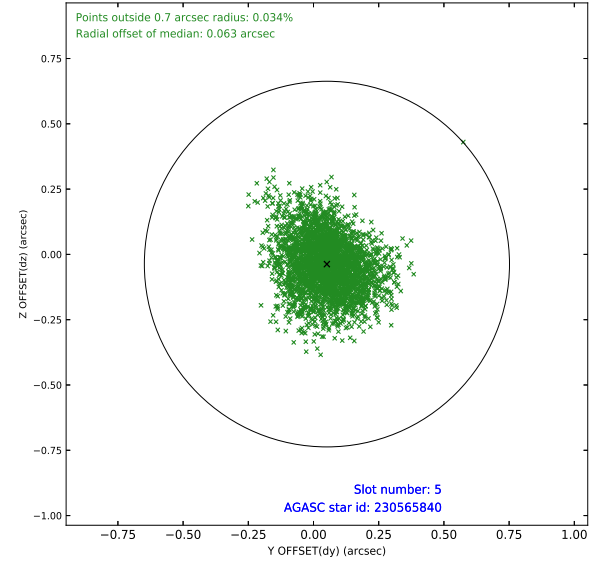
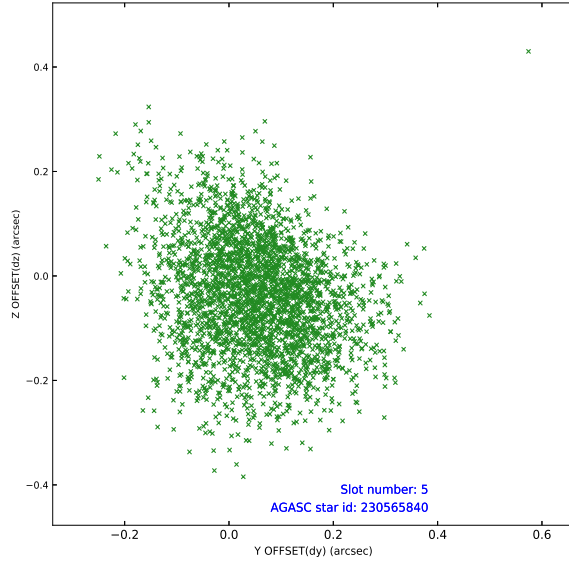
2.4.1 Slot 3



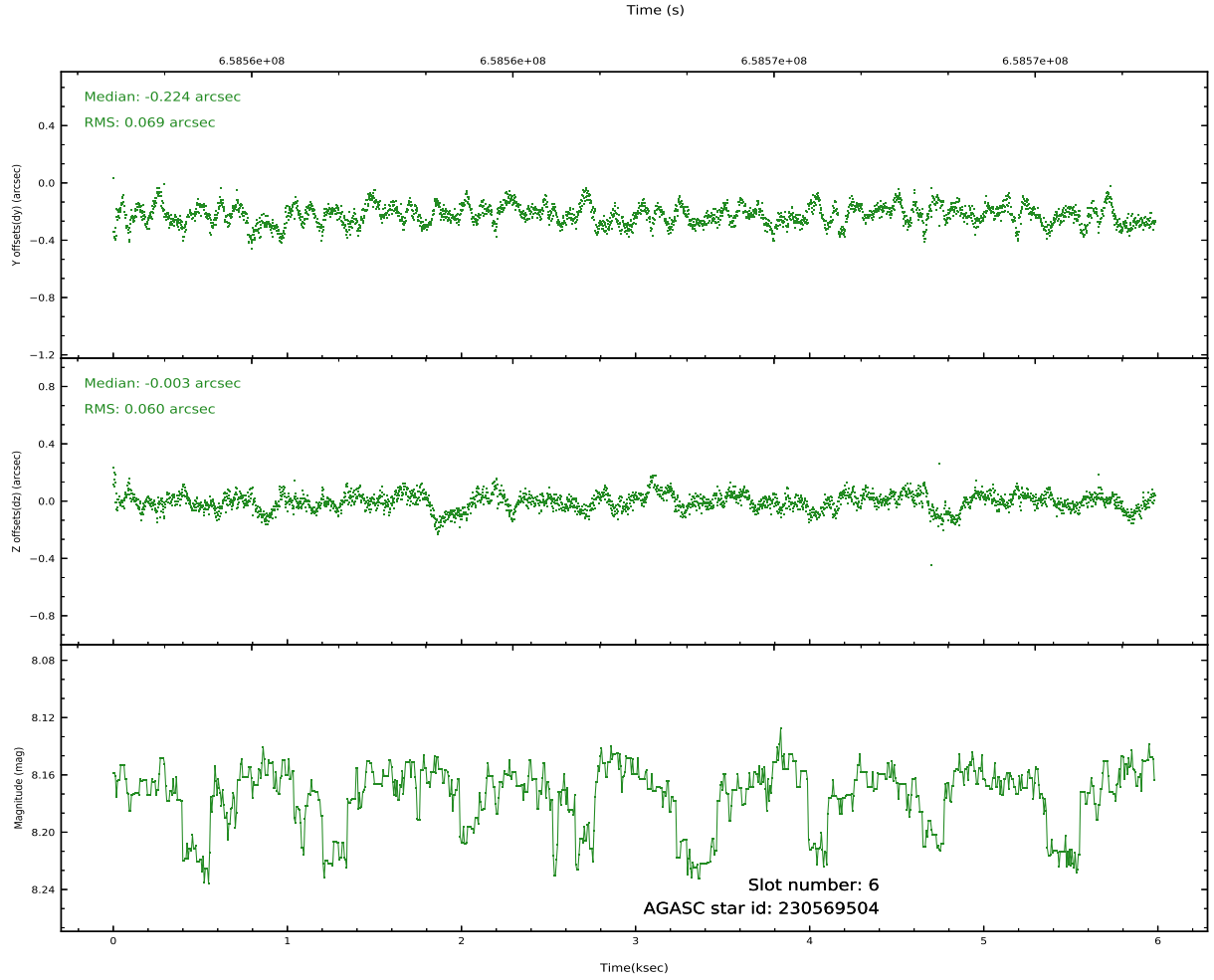
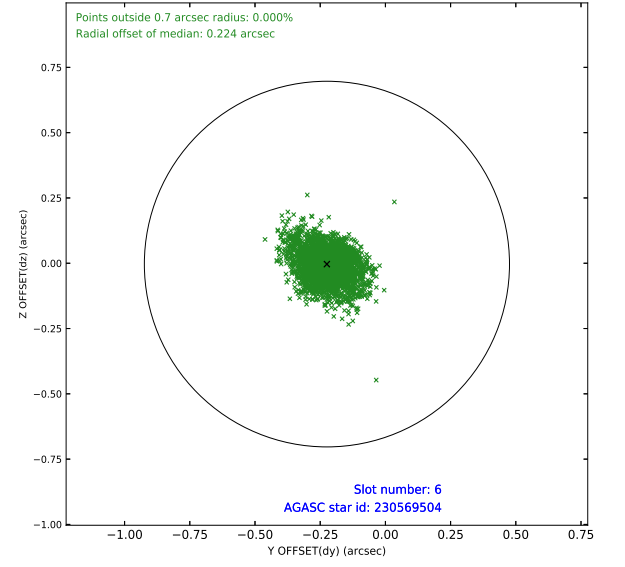
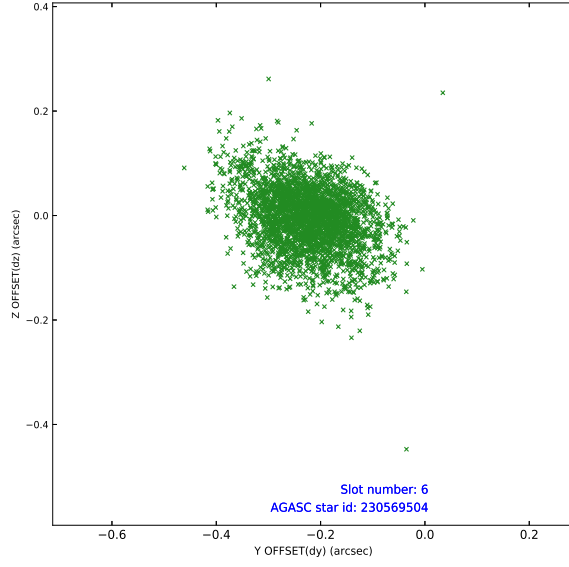
2.4.2 Slot 4



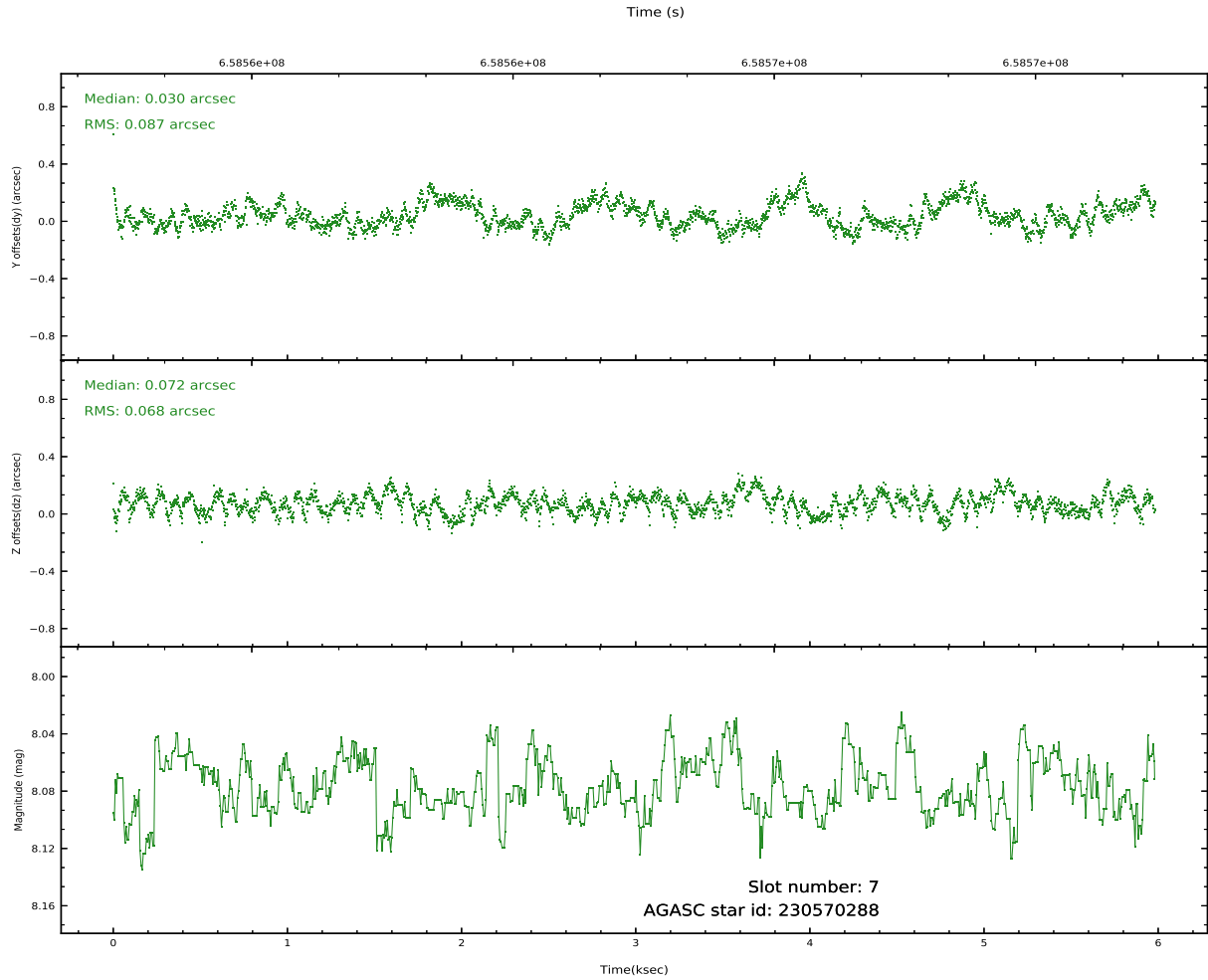
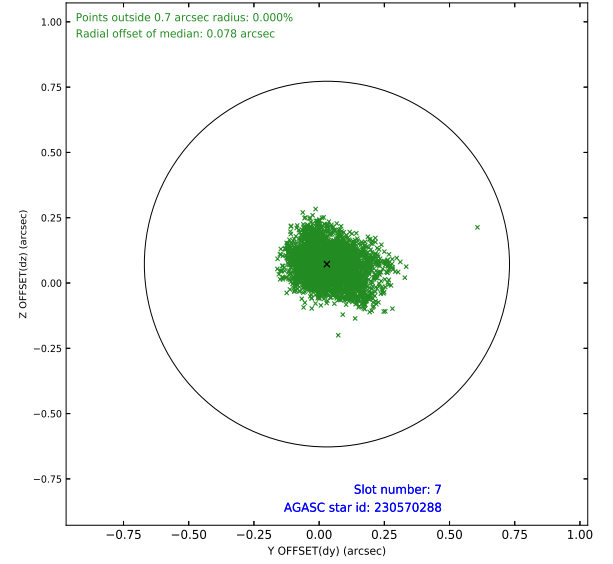
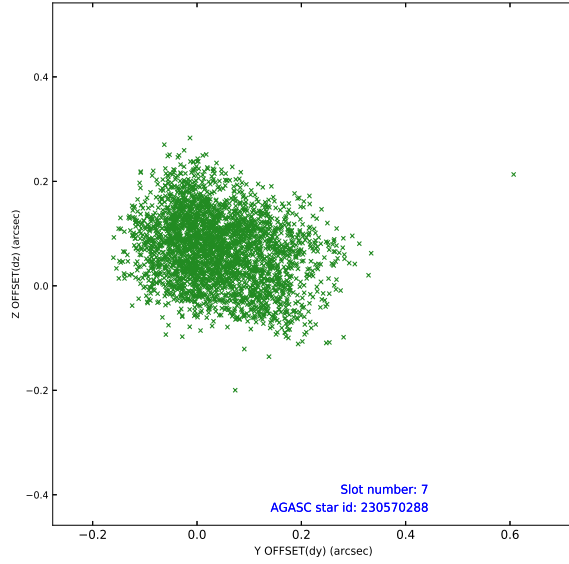
2.4.3 Slot 5



2.4.4 Slot 6

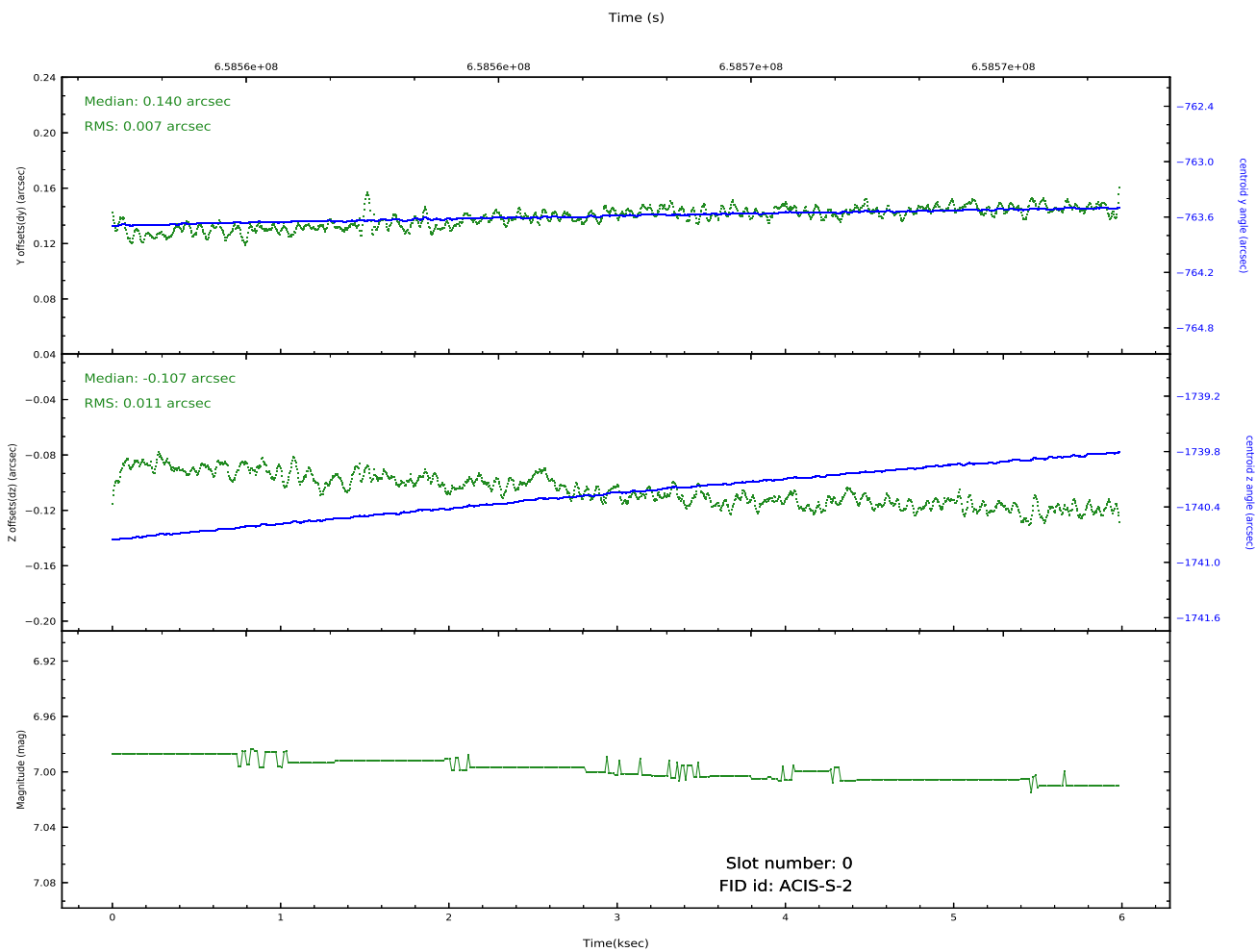
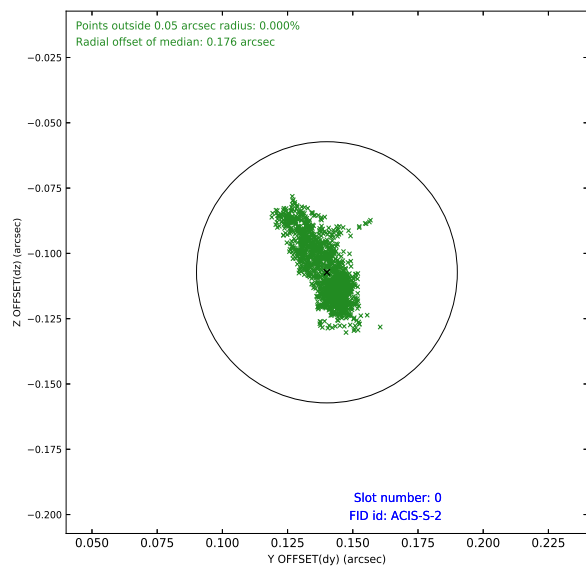
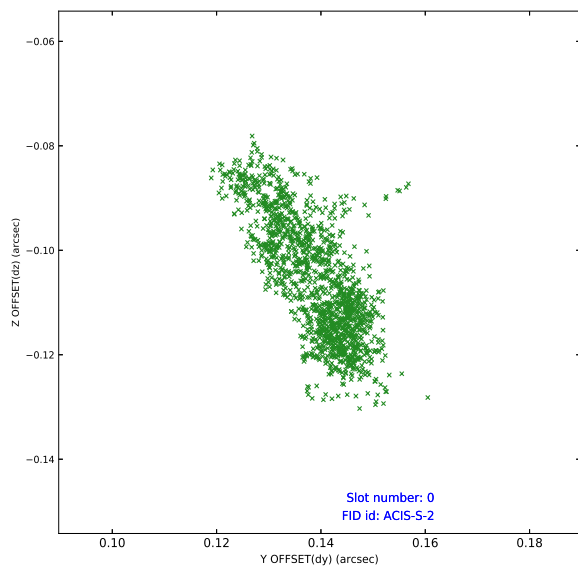


2.4.5 Slot 7

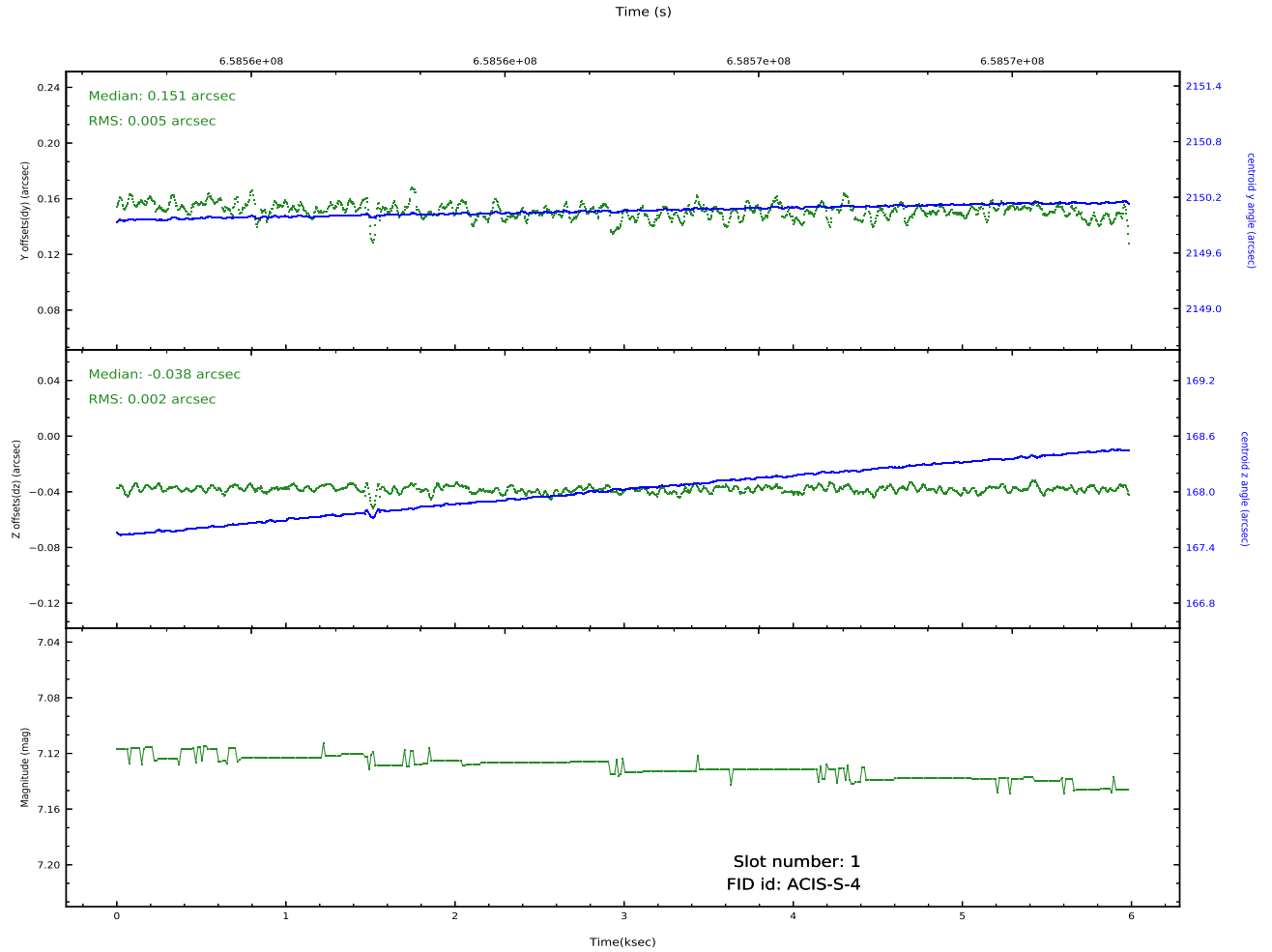
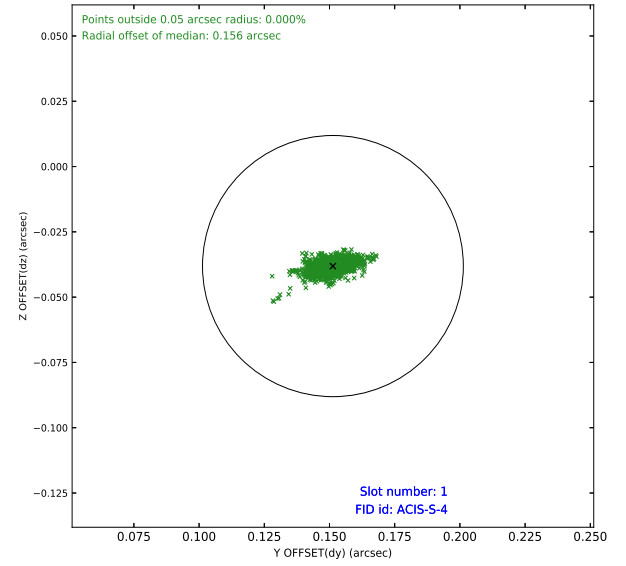
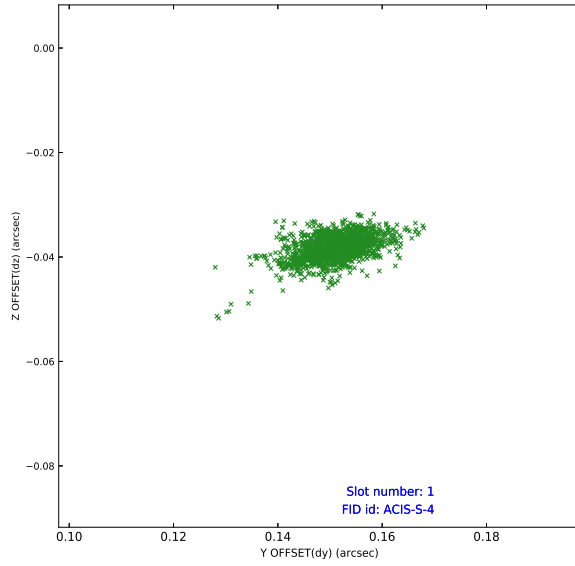


2.5 FID Slots

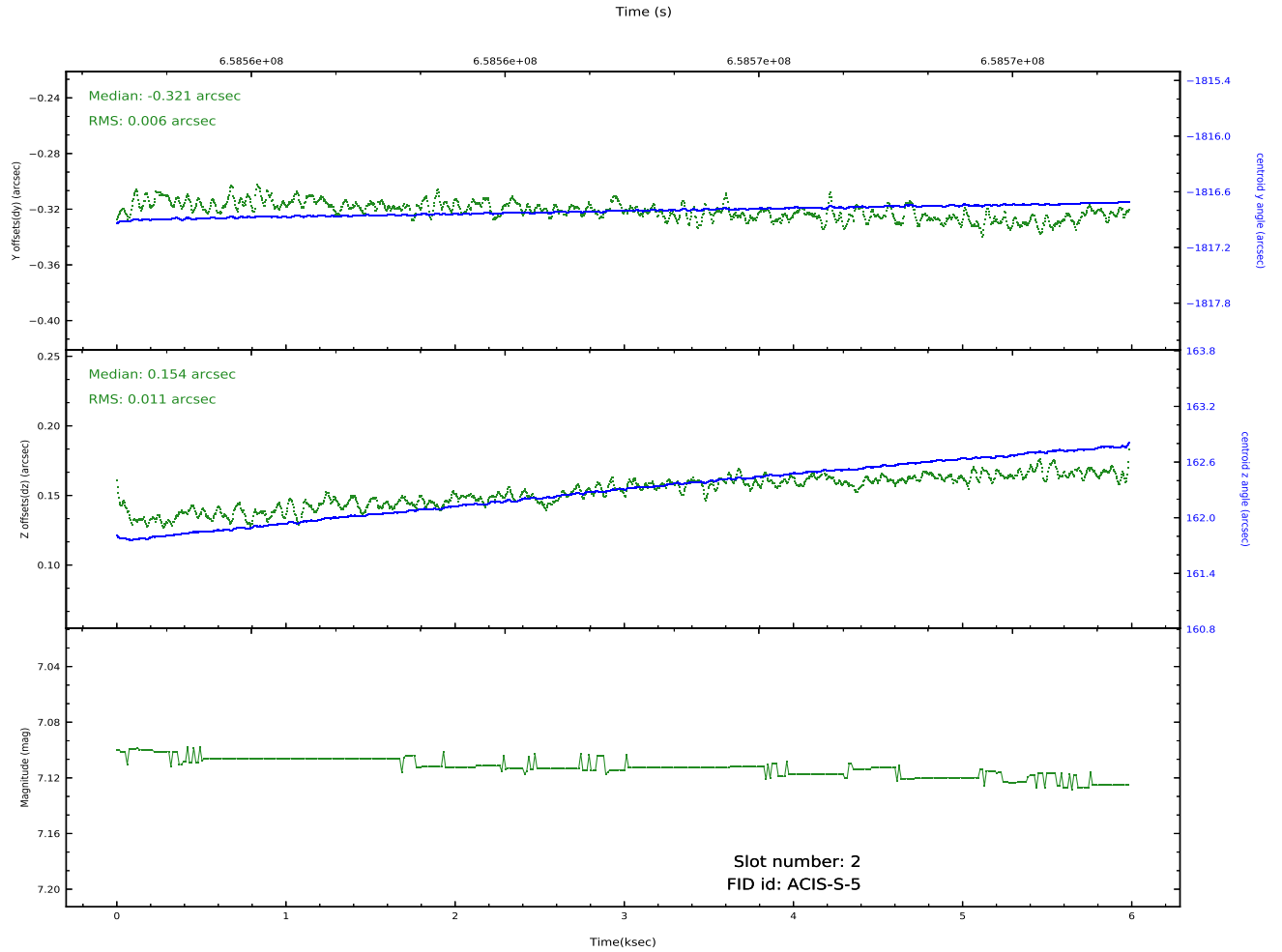
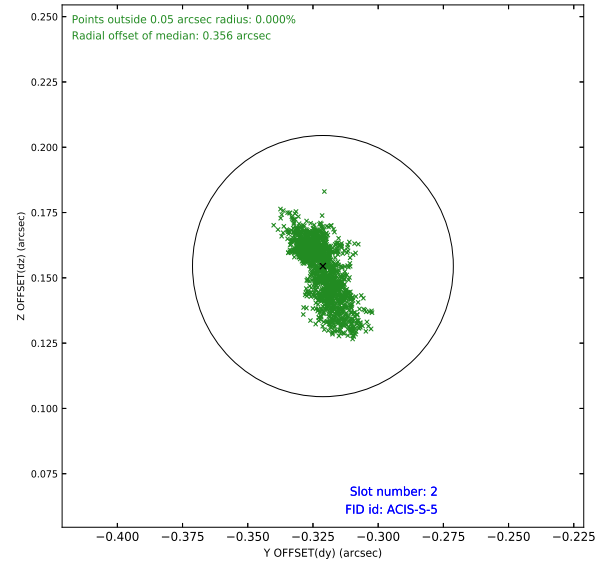
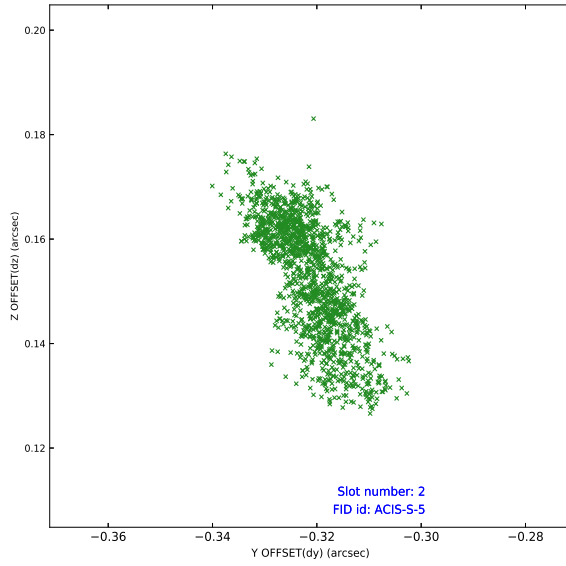
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.6914447302818

A.2 Comments