

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20418 - L2 Version 2
Chandra X-Ray Center

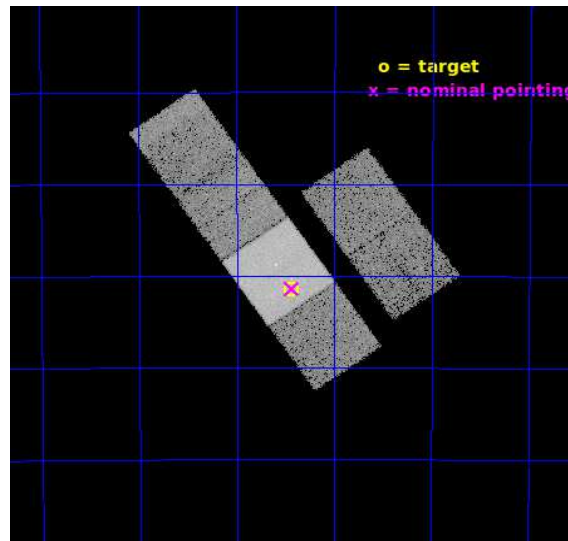
L2 Processing Date : Oct 24 2020

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1 Front

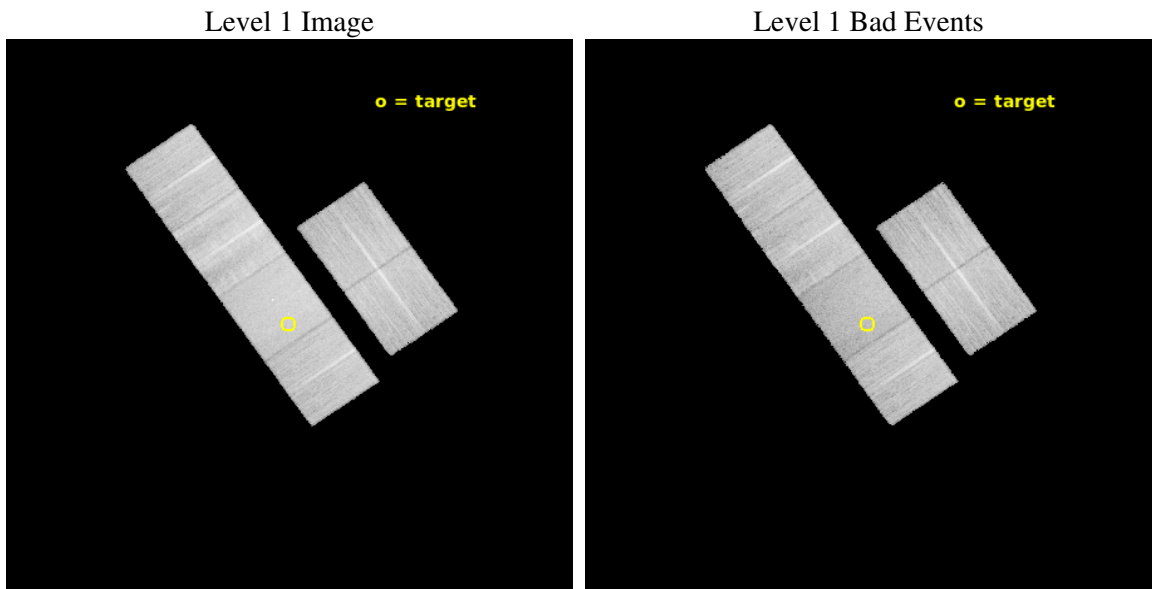
seq_num	703523	Sequence number
obs_id	20418	Observation id
title	A Complete X-ray Survey of Luminous Quasars at the End of Reionization: a Changing Population?	Proposal title
observer	Xiaohui Fan	Principal investigator
object	J0224-4711	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.110417	Observer's specified target RA [deg]
dec_targ	-47.1915	Observer's specified target Dec [deg]
ra_nom	36.108694281014	Nominal RA [deg]
dec_nom	-47.189927253052	Nominal Dec [deg]
roll_nom	235.14779007254	Nominal Roll [deg]
revision	2	Processing version of data
ontime	17948.472772479	Sum of GTIs [s]
livetime	17721.198402961	Livetime [s]
ontime2	17945.067632079	Sum of GTIs [s]
ontime3	17941.908712029	Sum of GTIs [s]
ontime6	17948.431732416	Sum of GTIs [s]
ontime7	17948.472772479	Sum of GTIs [s]
ontime8	17945.108651996	Sum of GTIs [s]
ontime9	17948.513812423	Sum of GTIs [s]
l2events	137838	Number of level 2 events



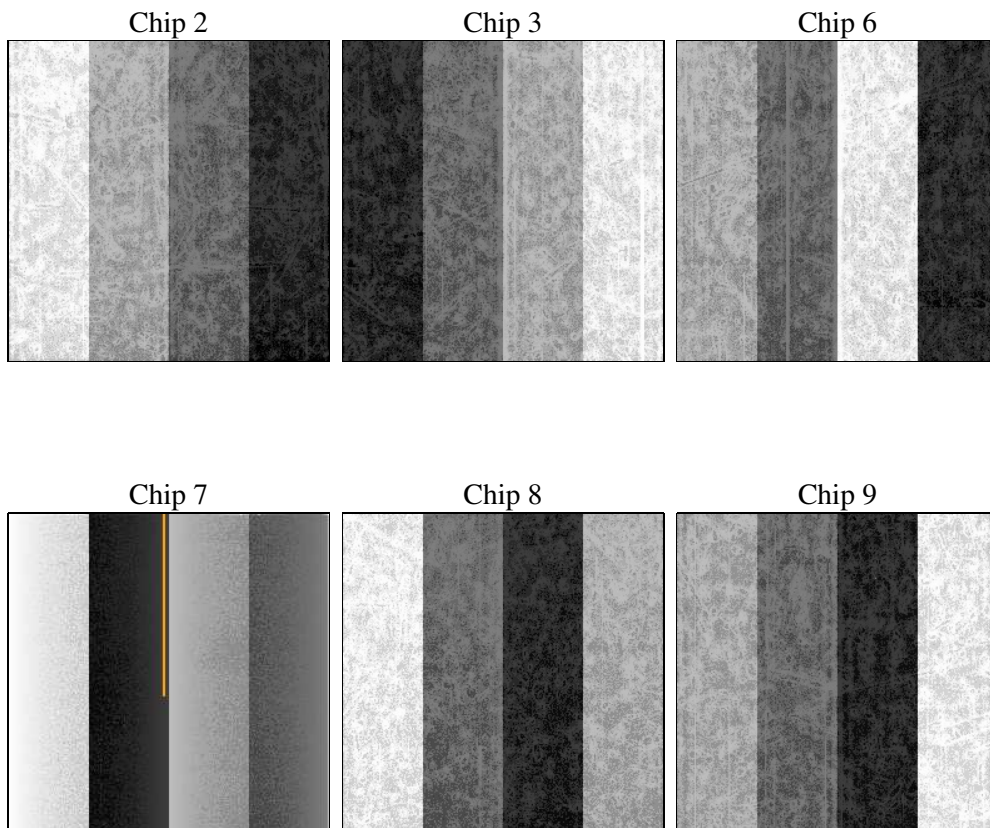
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	17948.472772479	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	17945.067632079	Sum of GTIs [s]
date	2020-10-25T01:44:37	Date and time of file creation	ontime3	17941.908712029	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	17948.431732416	Sum of GTIs [s]
			ontime7	17948.472772479	Sum of GTIs [s]
			ontime8	17945.108651996	Sum of GTIs [s]
			ontime9	17948.513812423	Sum of GTIs [s]
			l1events	888997	Number of level 1 events

2.1.4 Events

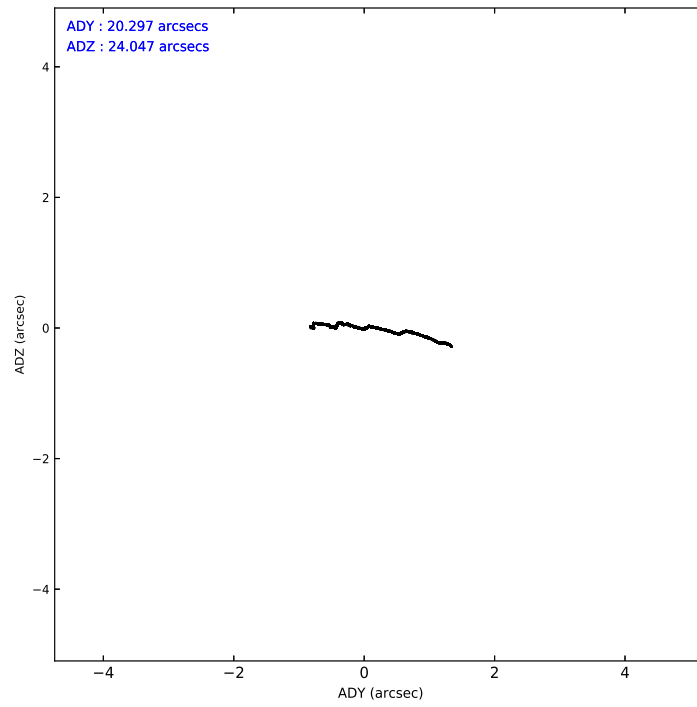
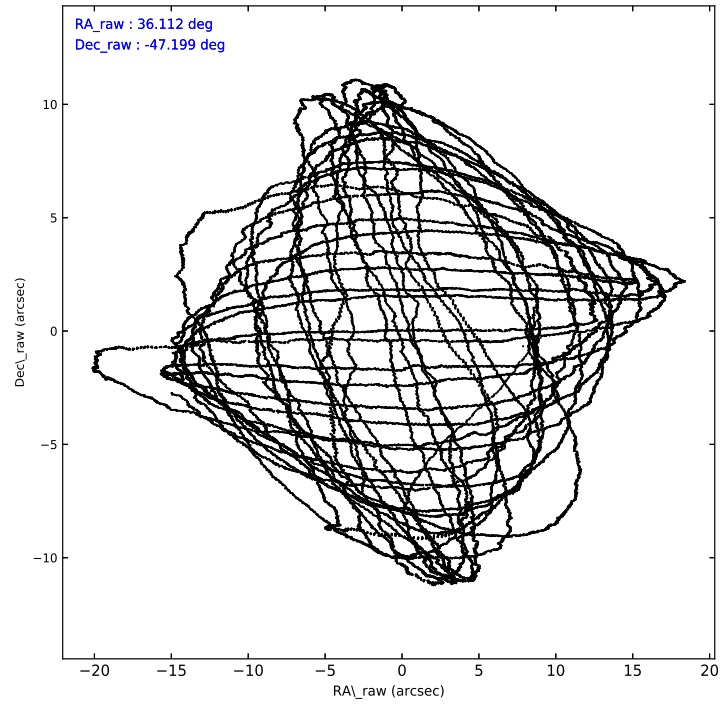
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	134611	130592	137947	168816	175198	141833	grade 0 events	4714	4724	4745	6484	13115	5477
rejected events	121082	117252	123012	94750	129224	125899		3%	3%	3%	3%	7%	3%
rejected %	89%	89%	89%	56%	73%	88%	grade 1 events	79	75	58	238	148	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	3456	2935	3709	15580	11377	3732
								2%	2%	2%	9%	6%	2%
							grade 3 events	1345	1437	1388	5965	4741	1564
								0%	1%	1%	3%	2%	1%
							grade 4 events	1331	1437	1406	5975	4261	1553
								0%	1%	1%	3%	2%	1%
							grade 5 events	4820	5976	5980	16649	9355	7111
								3%	4%	4%	9%	5%	5%
							grade 6 events	2688	2814	3692	40072	12481	3612
								1%	2%	2%	23%	7%	2%
							grade 7 events	116178	111194	116969	77853	119720	118704
								86%	85%	84%	46%	68%	83%

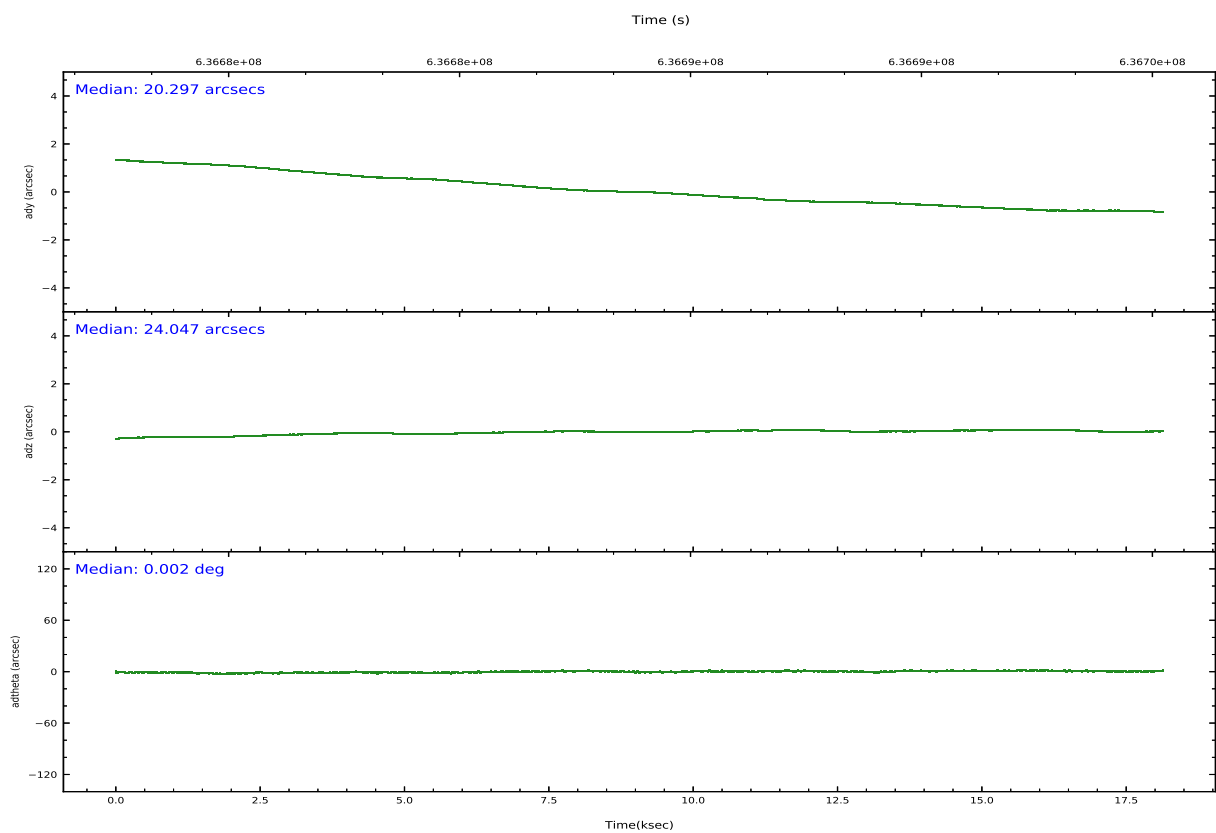
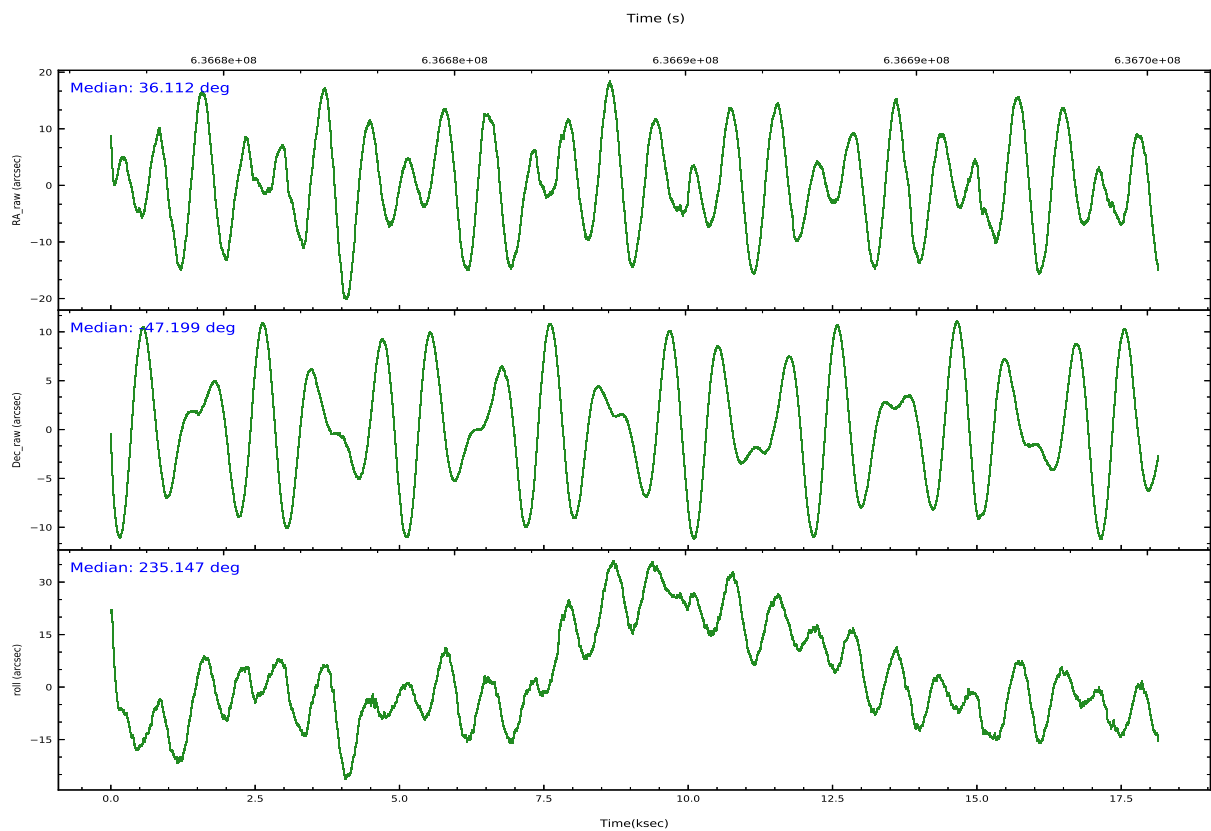
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-236789	ACIS-236789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	36.114963	36.108694281014
[deg] Pointing Dec	-47.171359	-47.189927253052
[deg] Pointing Roll	235.003336	235.14779007254
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	636678186.184000	636677190.3898799
Observation start date	2018-03-05T23:01:57	2018-03-05T22:46:30
[s] Observation end time (MET)	636696186.184000	636697226.0660599
Observation end date	2018-03-06T04:01:57	2018-03-06T04:20:26
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O2	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O1	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



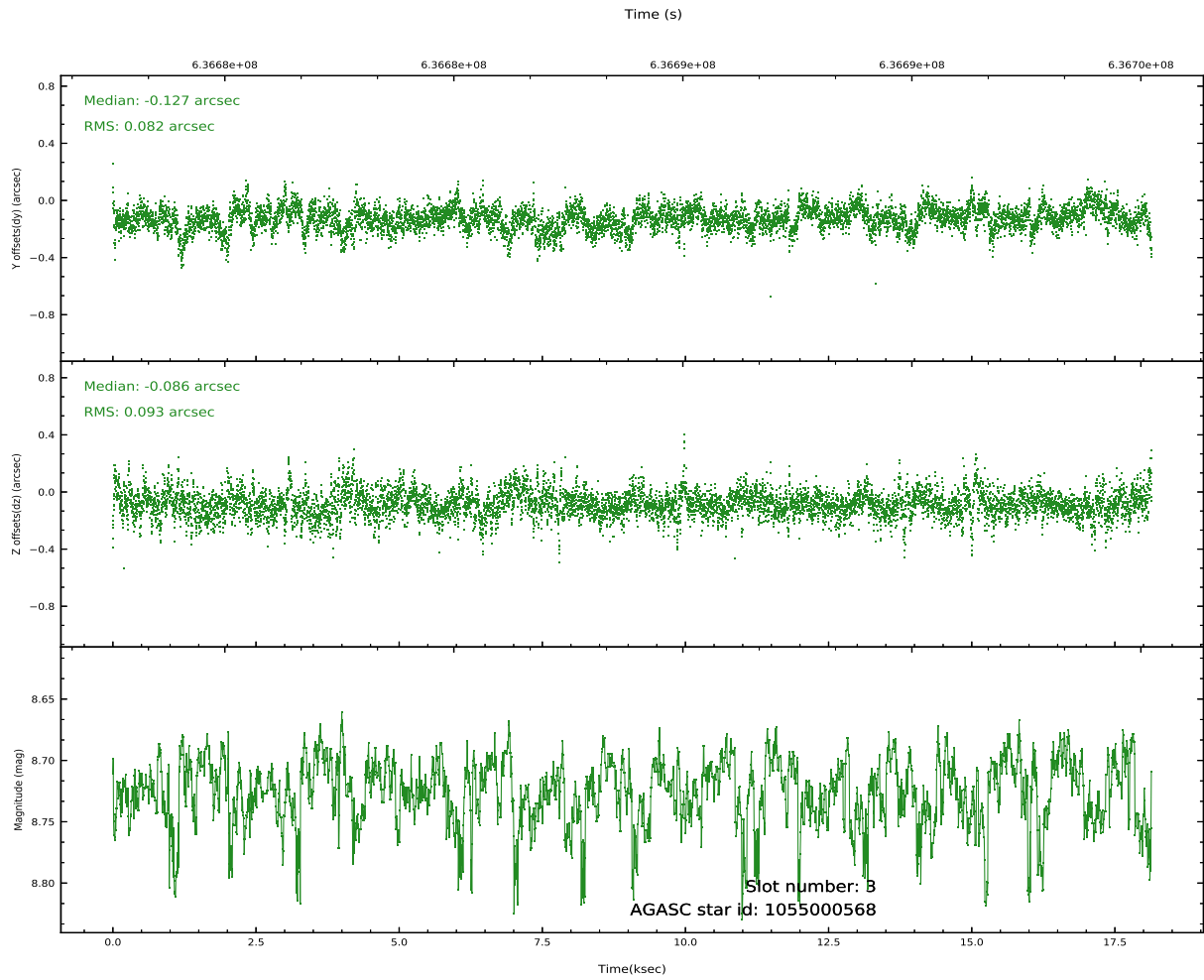
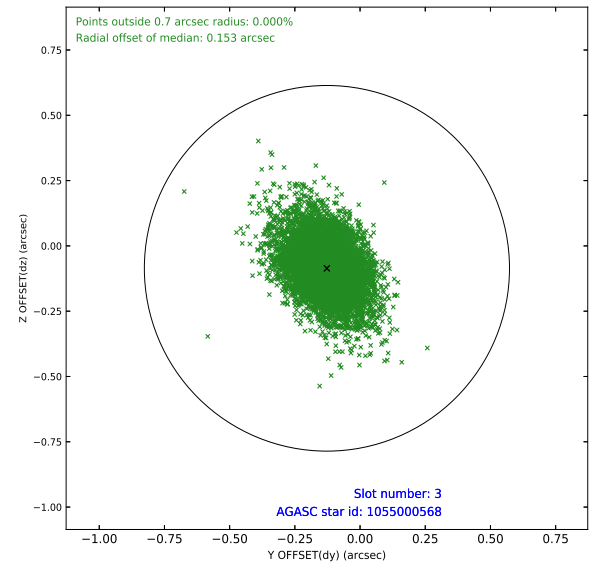
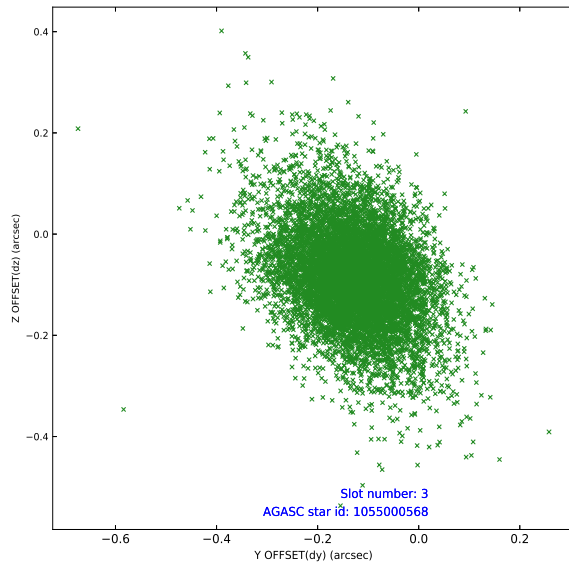


Slot Statistics

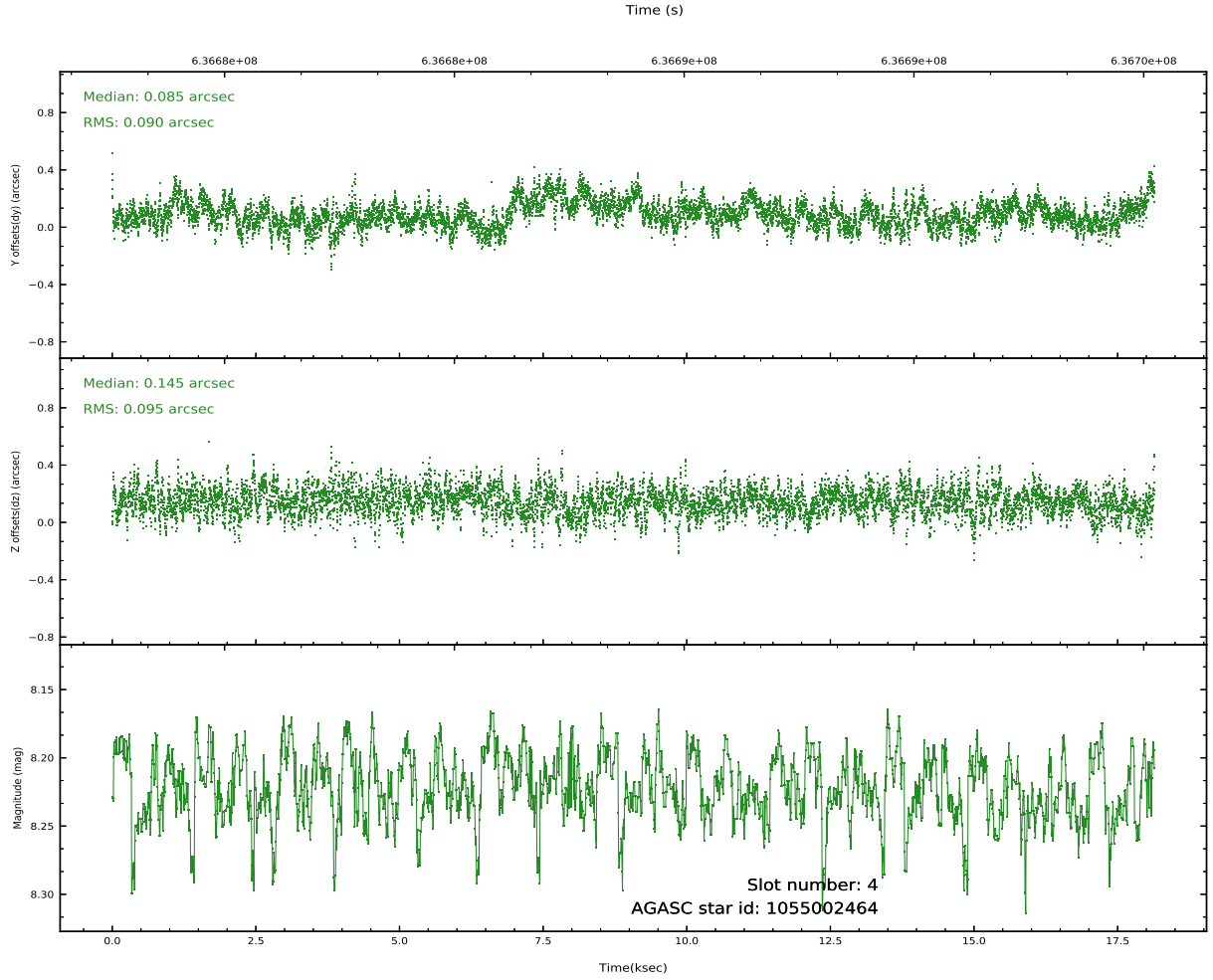
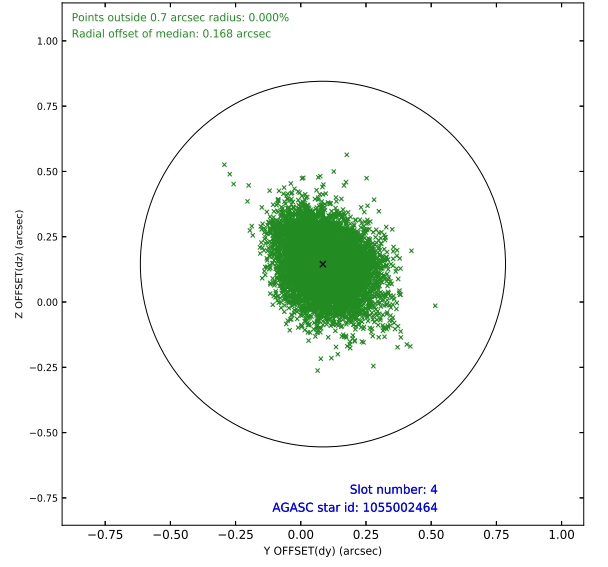
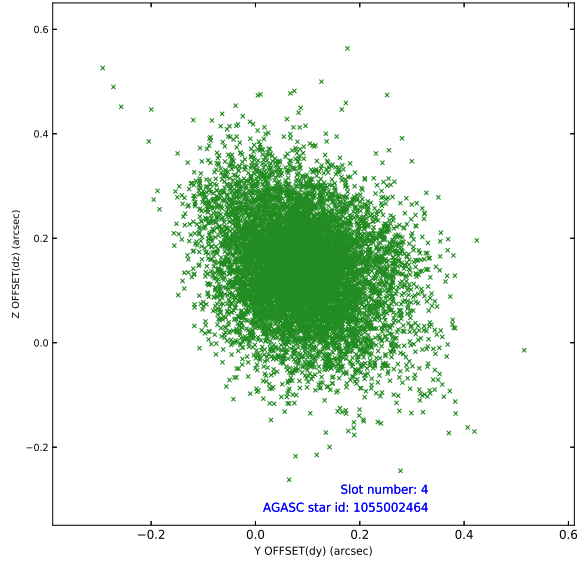
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	4424	1.000	0.006	0.009	0.019	0.044	0.000000	0.000000	-773.66	-1745
1	FID		ACIS-S-4	7.21	4424	1.000	0.066	-0.038	0.016	0.041	0.000000	0.000000	2139.76	162
2	FID		ACIS-S-6	7.37	4425	1.000	-0.101	0.039	0.014	0.030	0.000000	0.000000	388.75	800
3	GUIDE	used	1055000568	8.72	8844	1.000	-0.127	-0.086	0.125	0.226	36.477967	-47.423737	238.90	1246
4	GUIDE	used	1055002464	8.22	8849	1.000	0.085	0.145	0.136	0.230	35.935224	-46.969621	-340.90	-777
5	GUIDE	used	1055003912	9.31	8835	1.000	-0.022	-0.006	0.206	0.331	36.502428	-47.494913	415.41	1441
6	GUIDE	used	1055004280	8.95	8839	1.000	0.091	-0.076	0.140	0.248	36.849503	-47.471910	-131.60	2090
7	GUIDE	used	1055007272	8.89	8841	1.000	-0.032	0.015	0.167	0.282	35.803009	-47.140811	349.75	-687

2.4 Star Slots

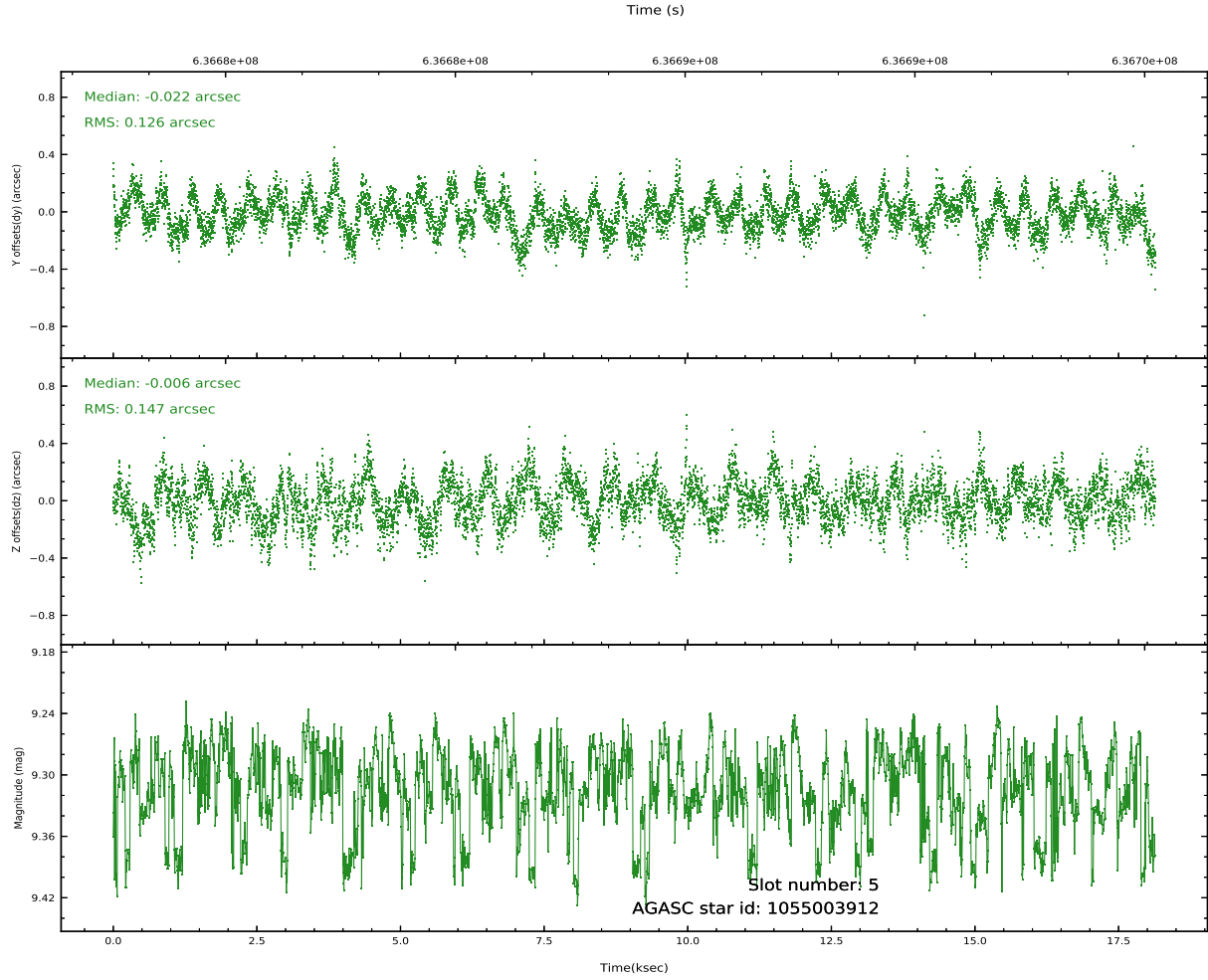
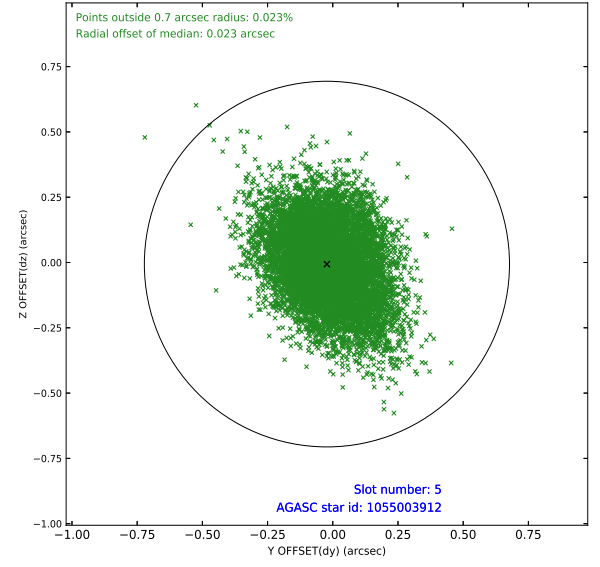
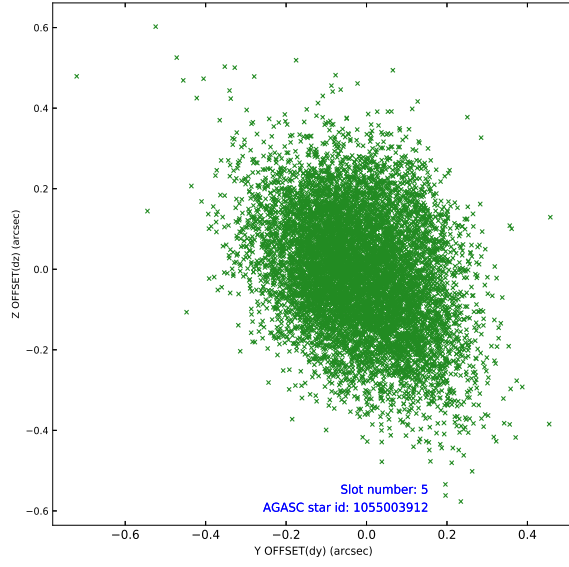
2.4.1 Slot 3



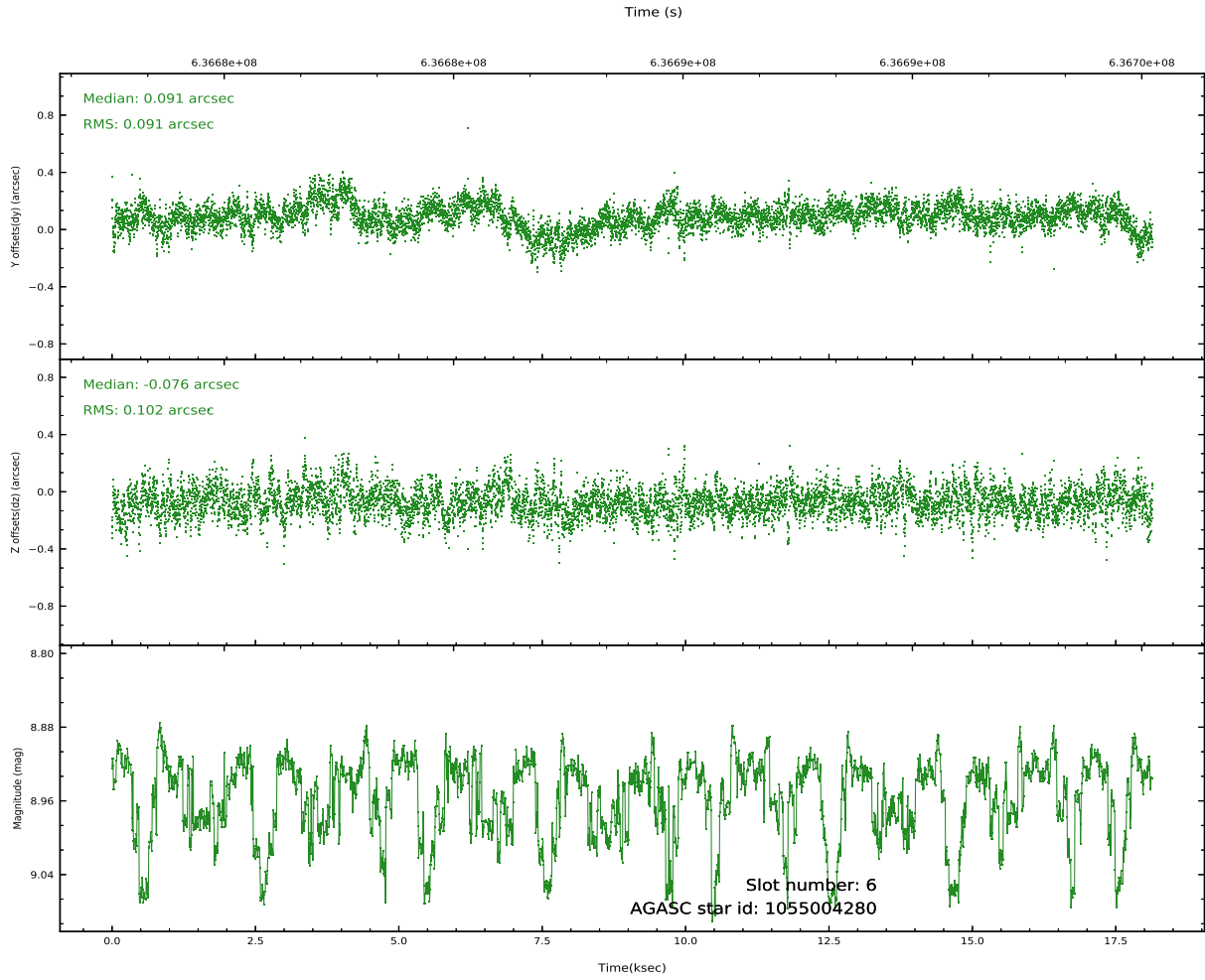
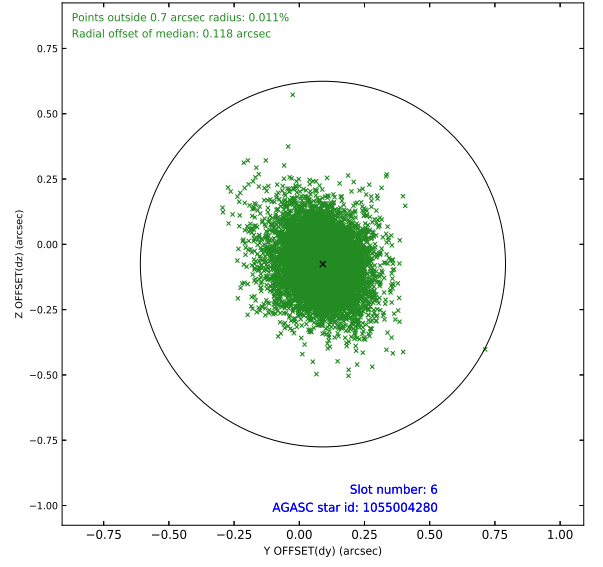
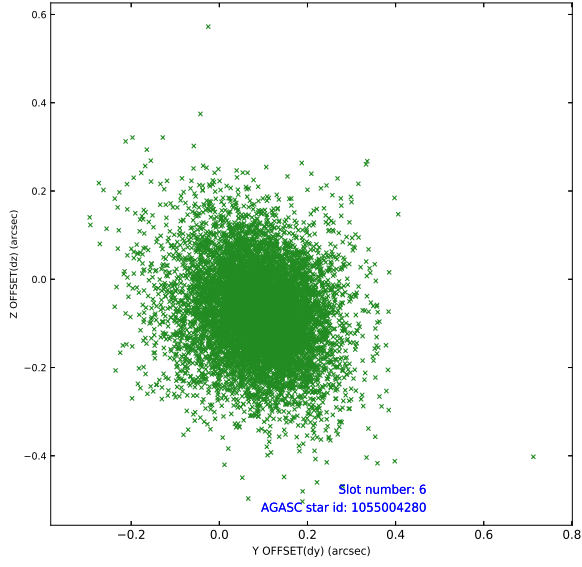
2.4.2 Slot 4



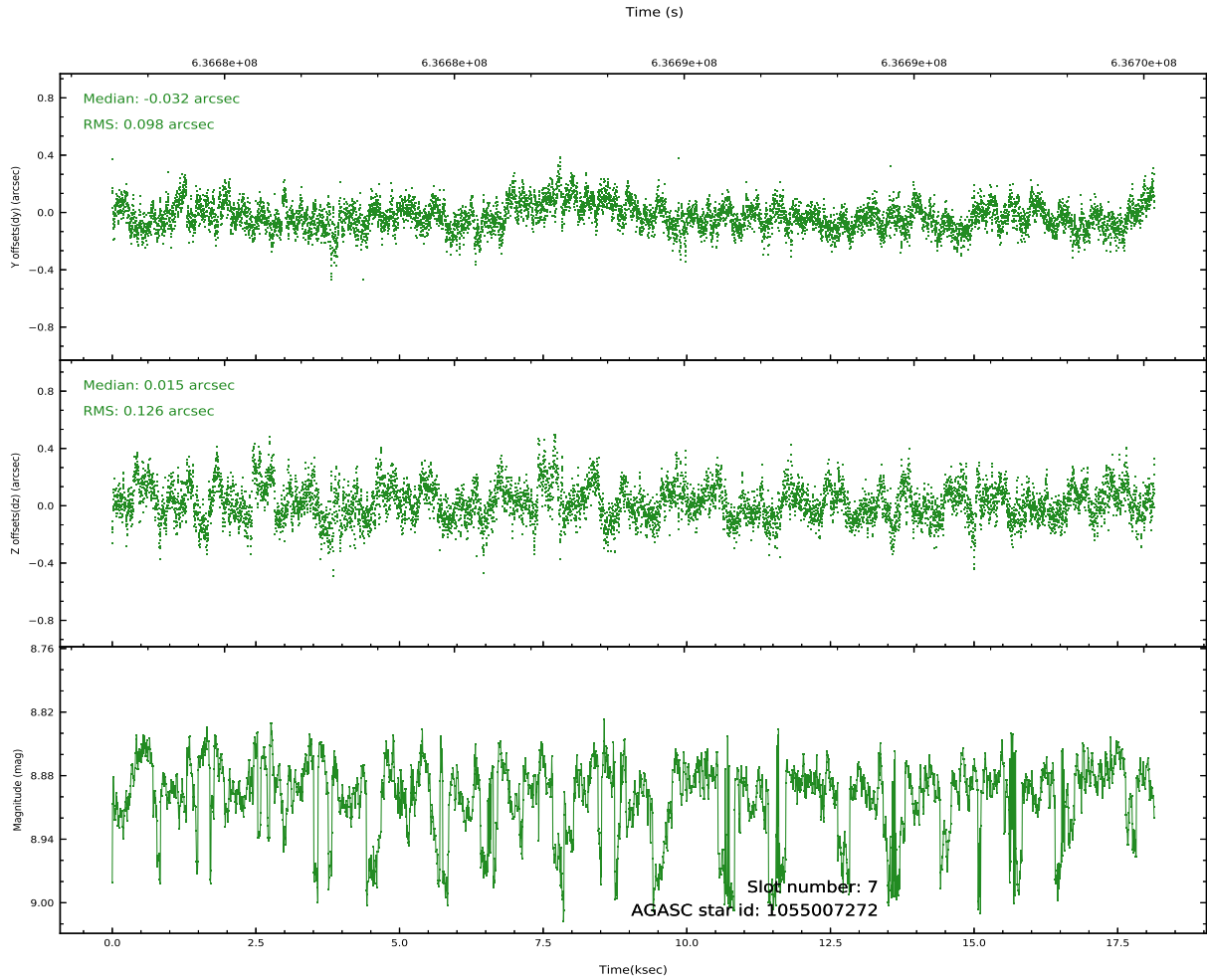
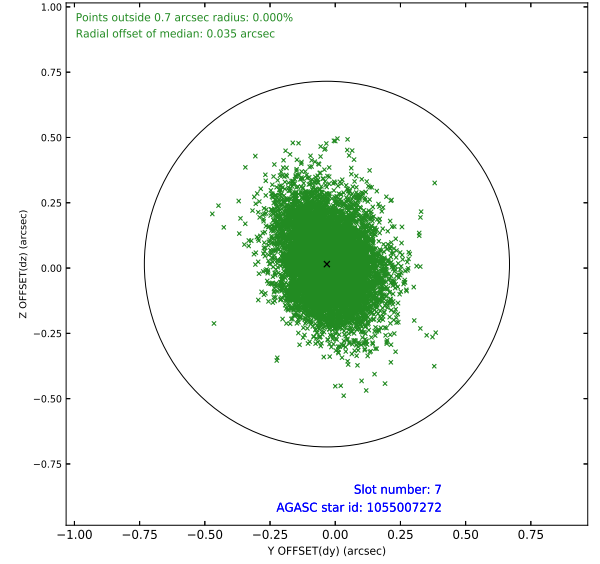
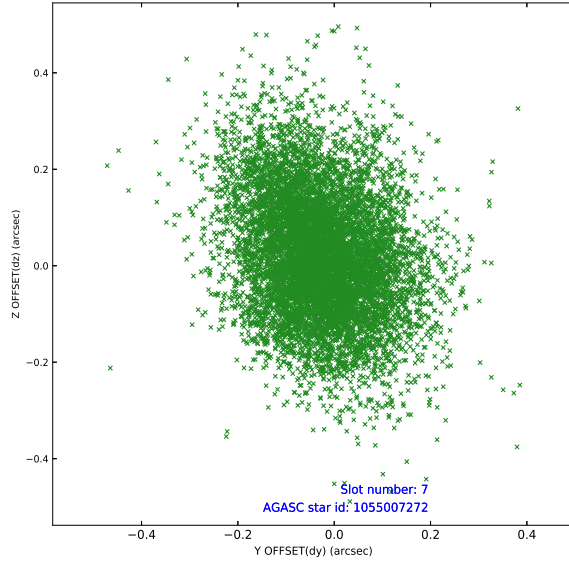
2.4.3 Slot 5



2.4.4 Slot 6

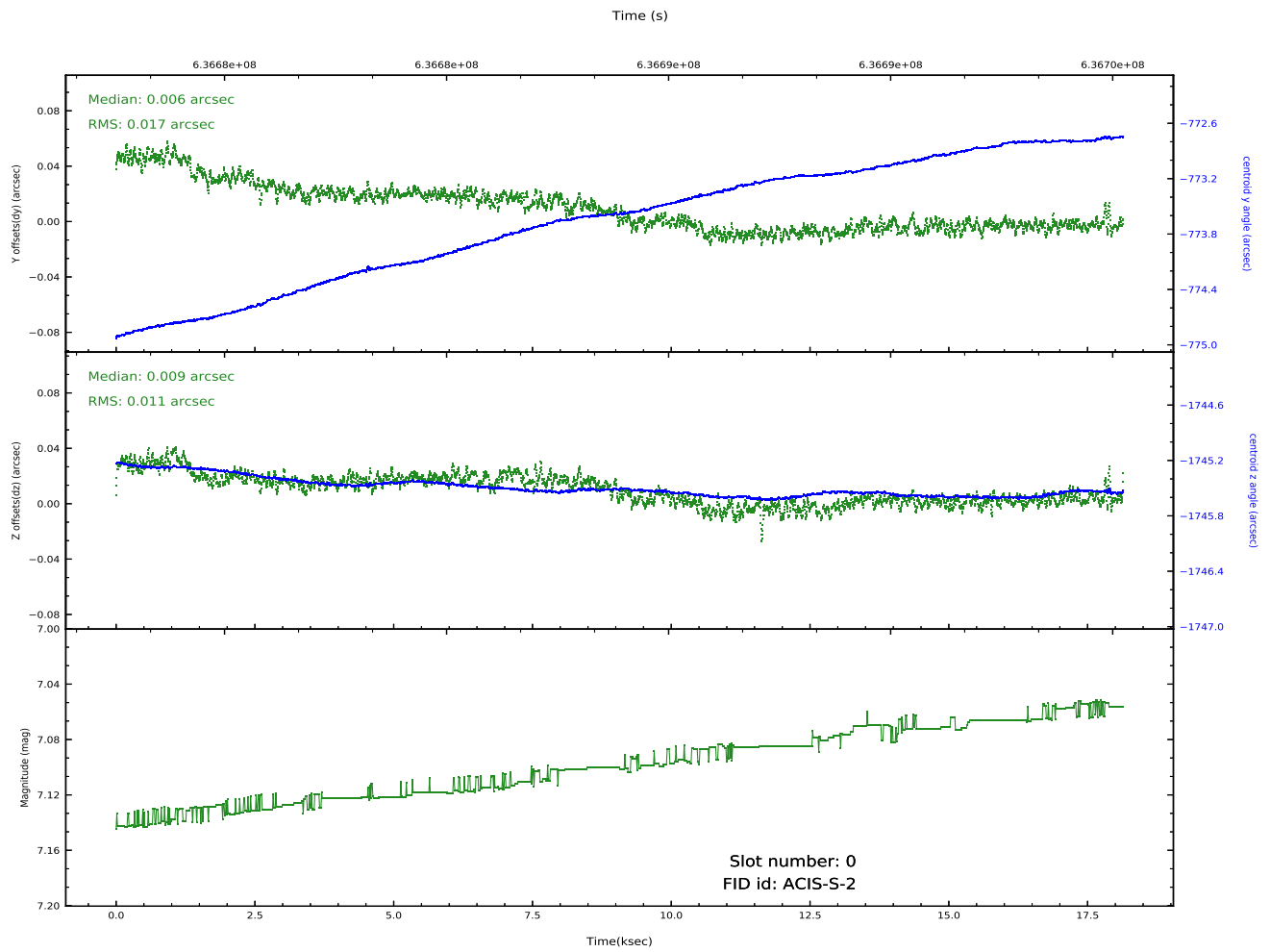
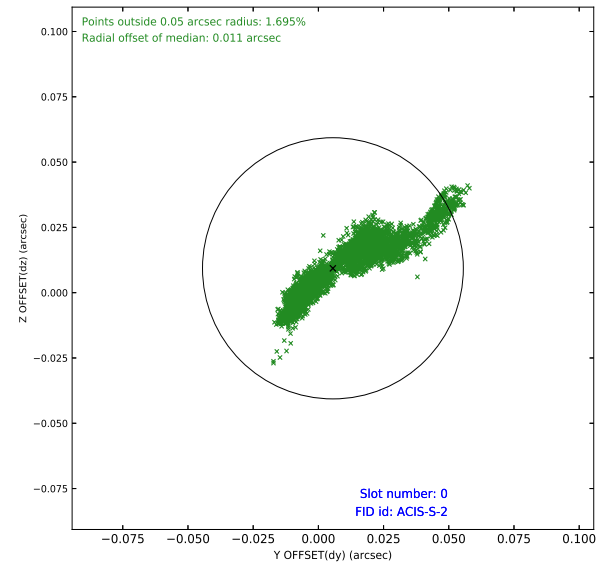
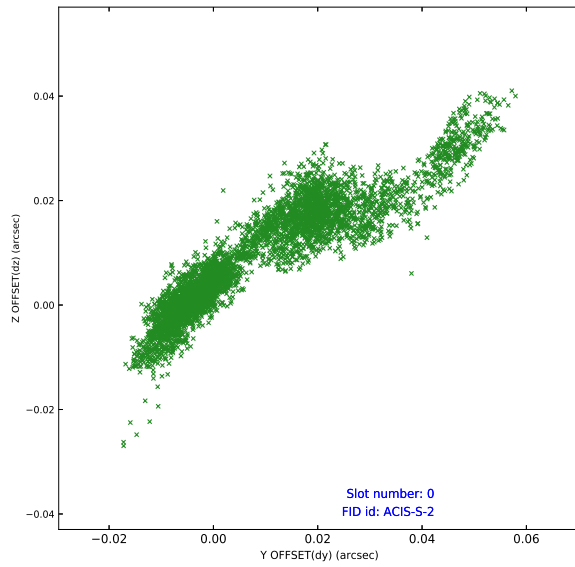


2.4.5 Slot 7

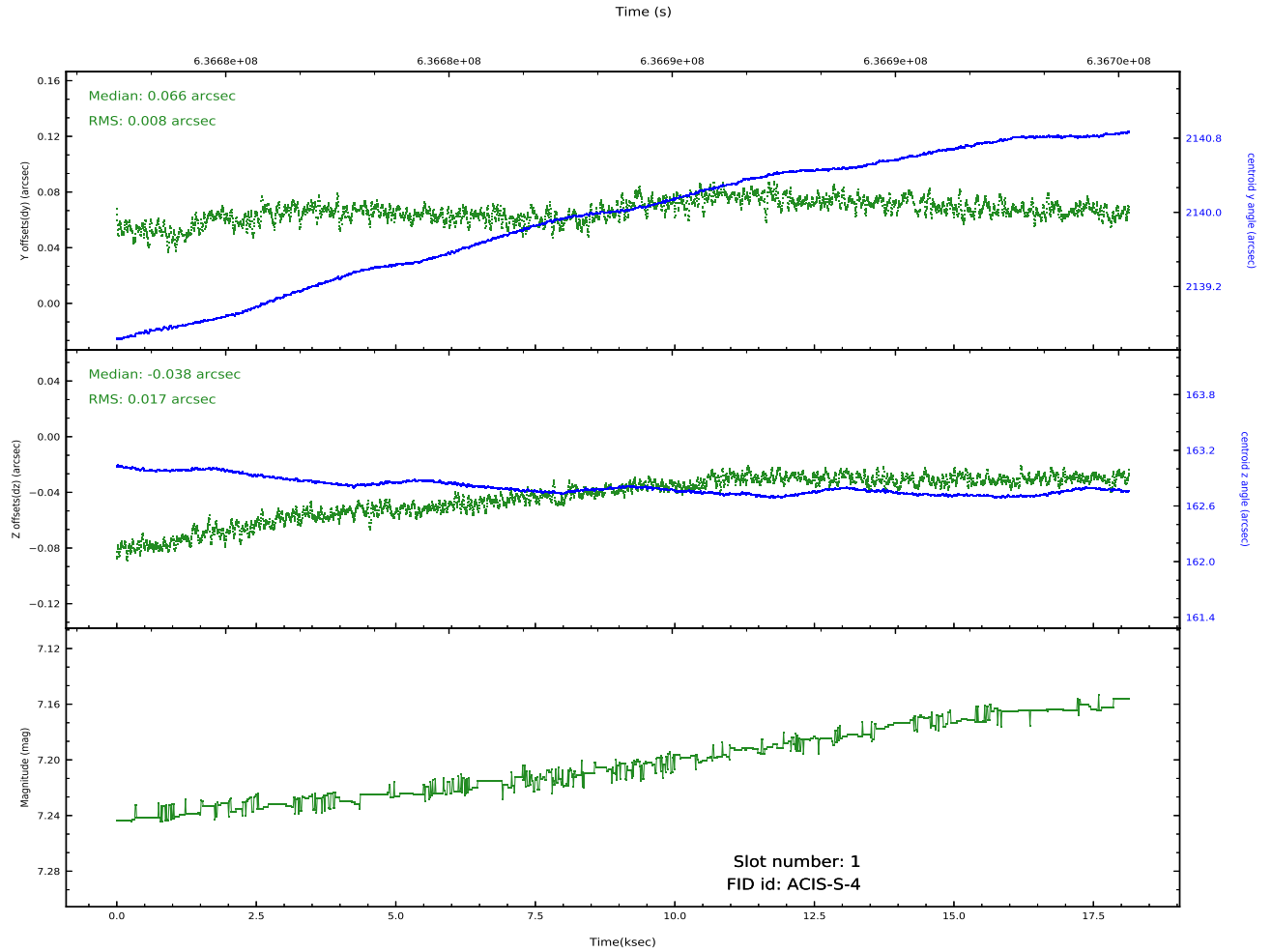
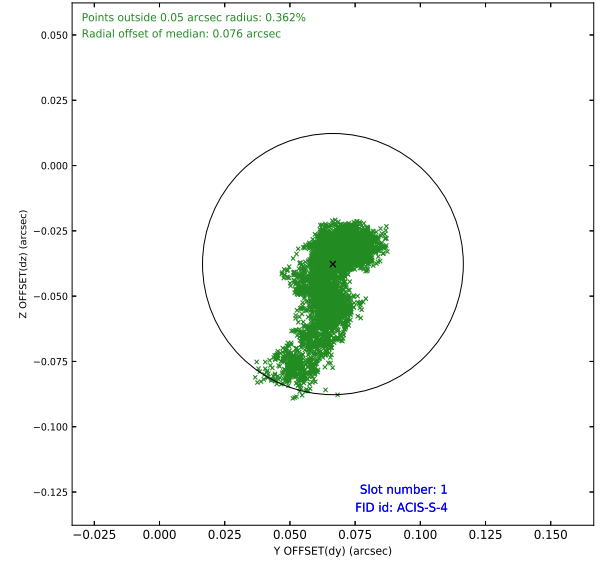
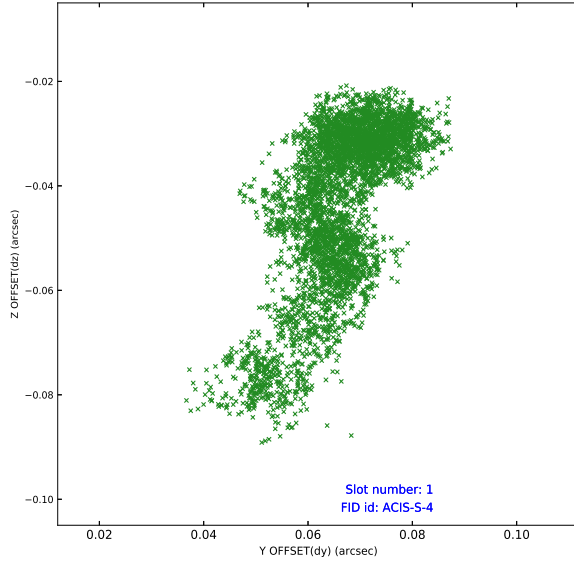


2.5 FID Slots

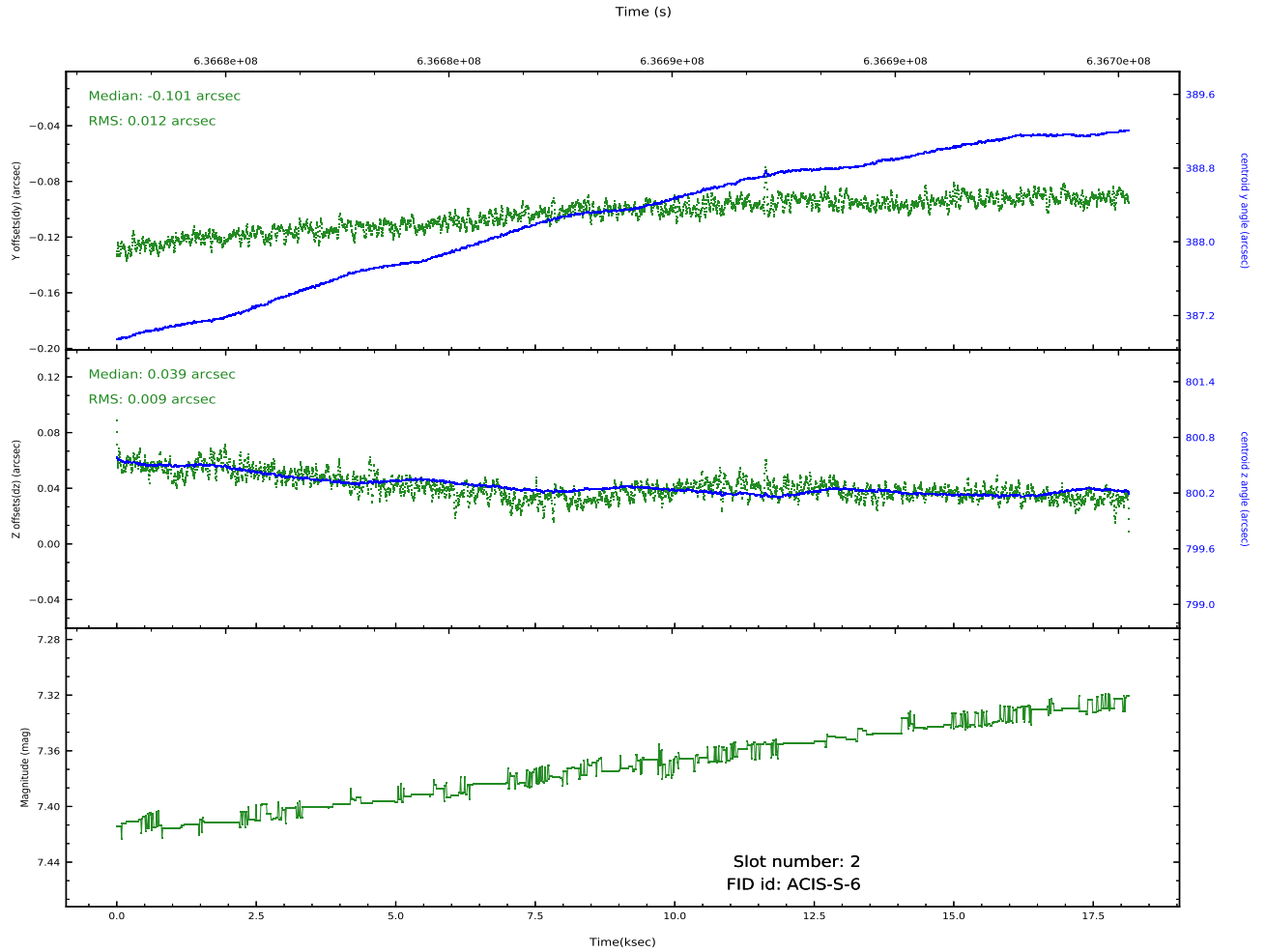
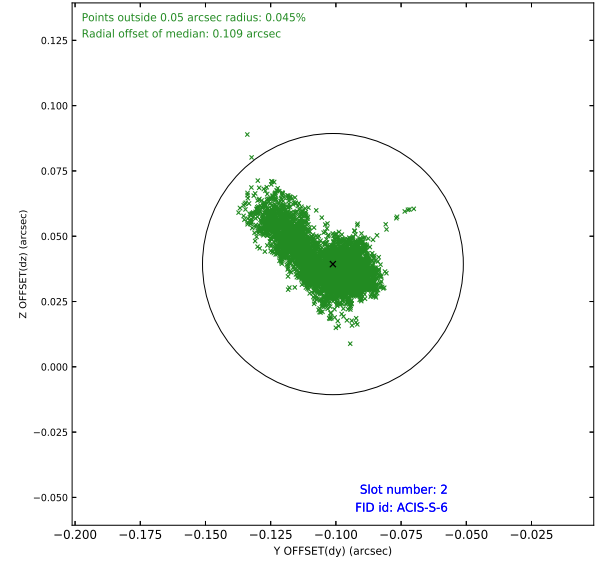
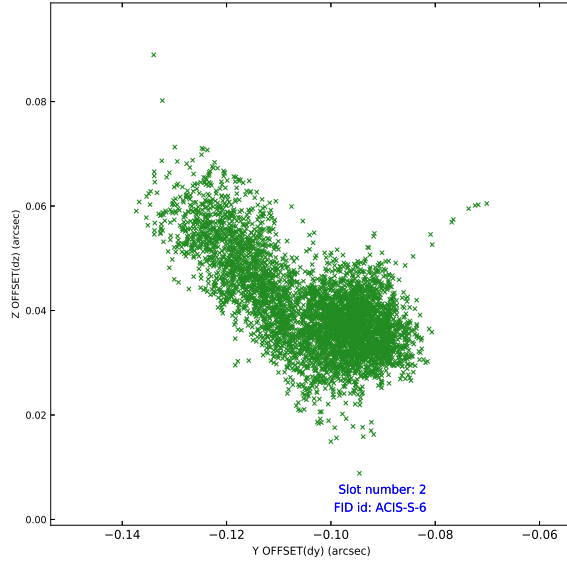
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.948472767711

A.2 Comments