

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20653 - L2 Version 2
Chandra X-Ray Center

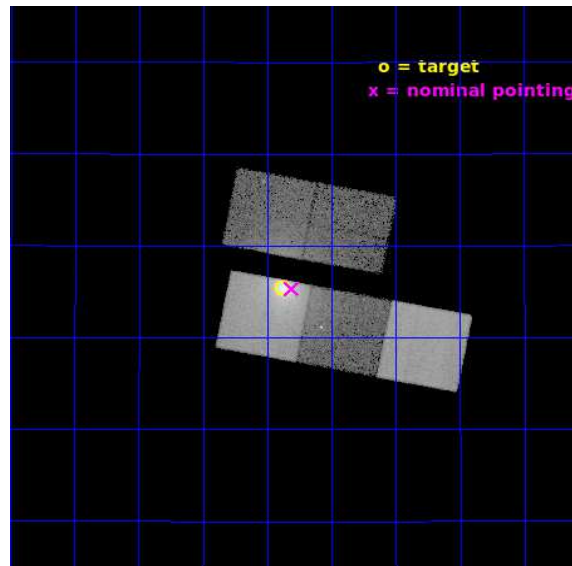
L2 Processing Date : Oct 25 2020

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1 Front

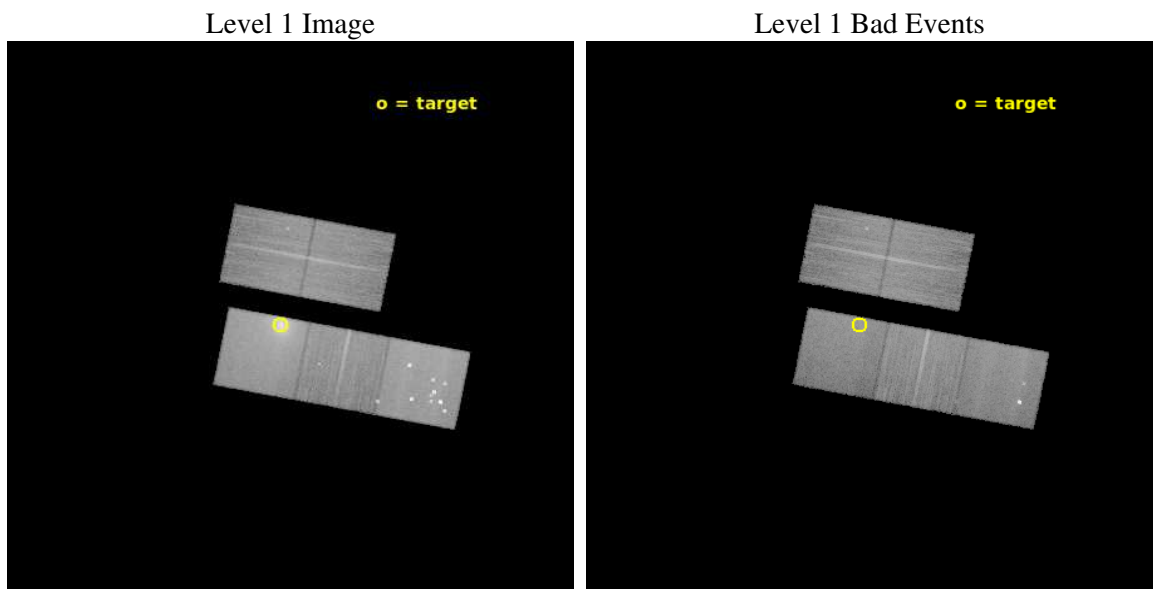
seq_num	890160	Sequence number
obs_id	20653	Observation id
title	AO-19 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.20205476225	Nominal RA [deg]
dec_nom	26.588986770736	Nominal Dec [deg]
roll_nom	190.96013628654	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20052.722169518	Sum of GTIs [s]
livetime	19790.718591774	Livetime [s]
ontime2	20046.275868893	Sum of GTIs [s]
ontime3	20052.599049568	Sum of GTIs [s]
ontime5	20052.681129575	Sum of GTIs [s]
ontime6	20052.640089512	Sum of GTIs [s]
ontime7	20052.722169518	Sum of GTIs [s]
l2events	325460	Number of level 2 events



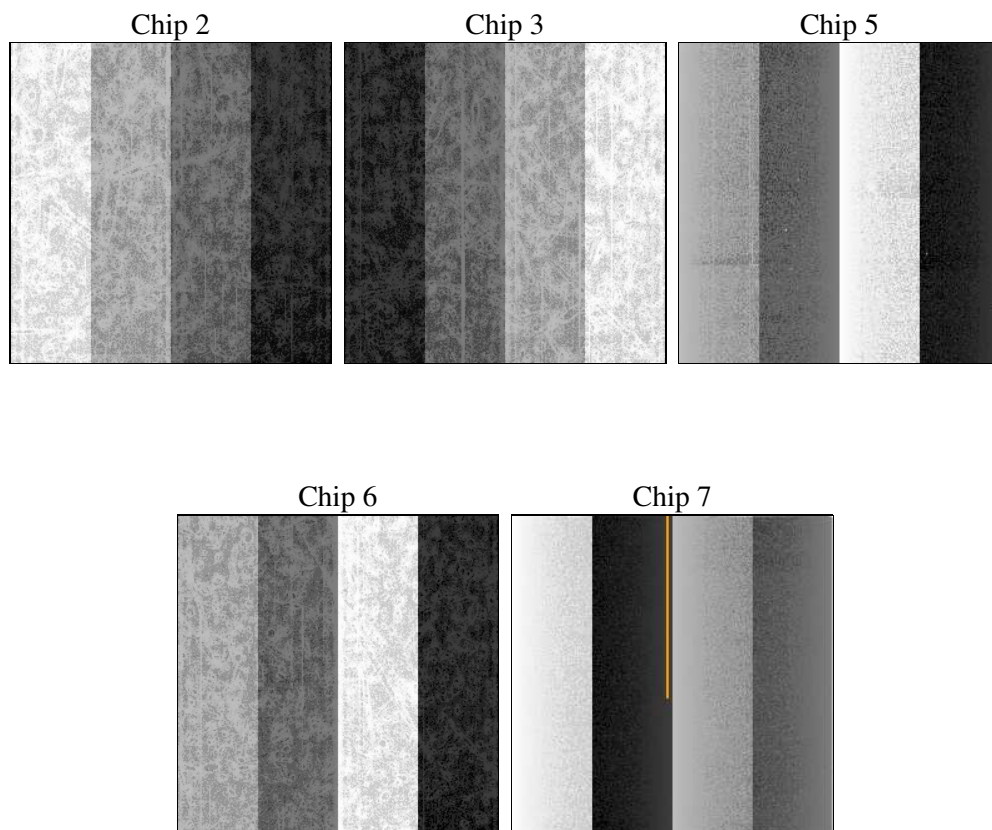
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	20052.722169518	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	20046.275868893	Sum of GTIs [s]
date	2020-10-25T15:45:25	Date and time of file creation	ontime3	20052.599049568	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	20052.681129575	Sum of GTIs [s]
			ontime6	20052.640089512	Sum of GTIs [s]
			ontime7	20052.722169518	Sum of GTIs [s]
			l1events	1022450	Number of level 1 events

2.1.4 Events

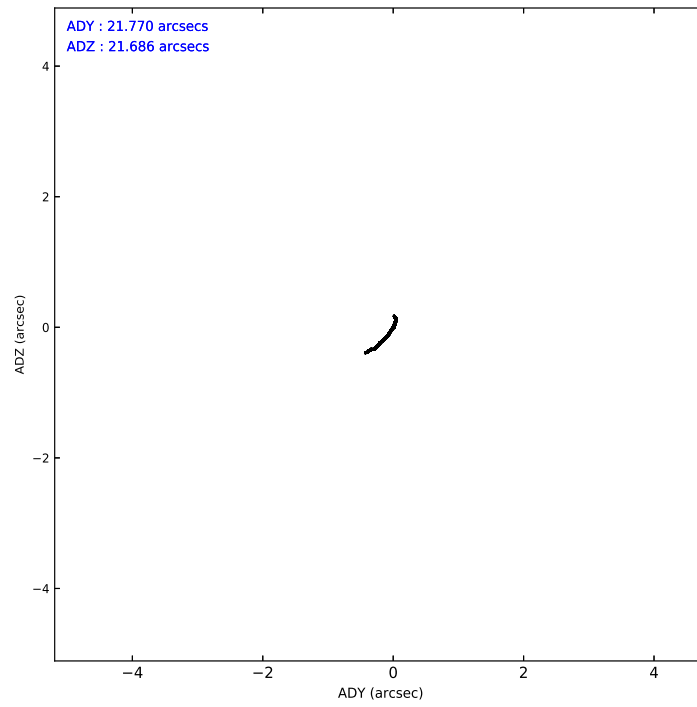
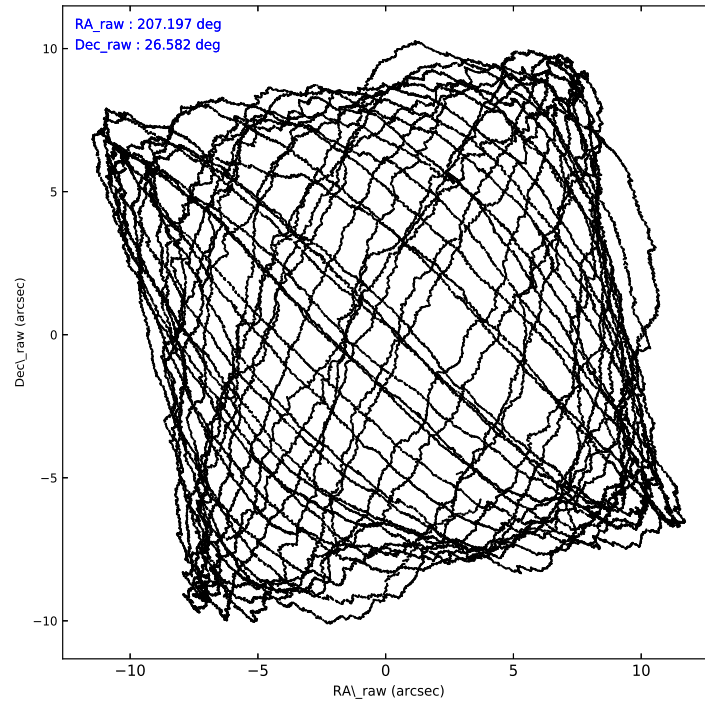
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	156791	152910	273409	161655	277685
rejected events	138671	131146	131062	137740	111826
rejected %	88%	85%	47%	85%	40%

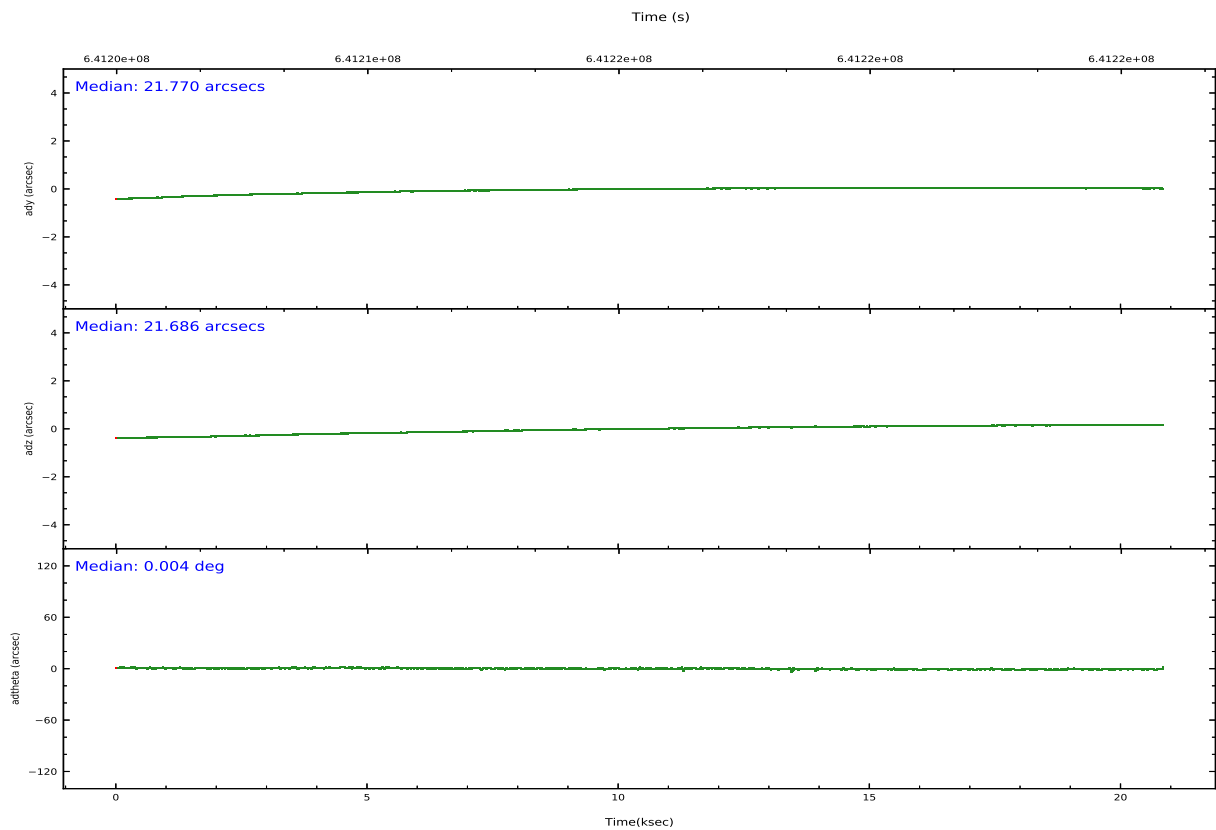
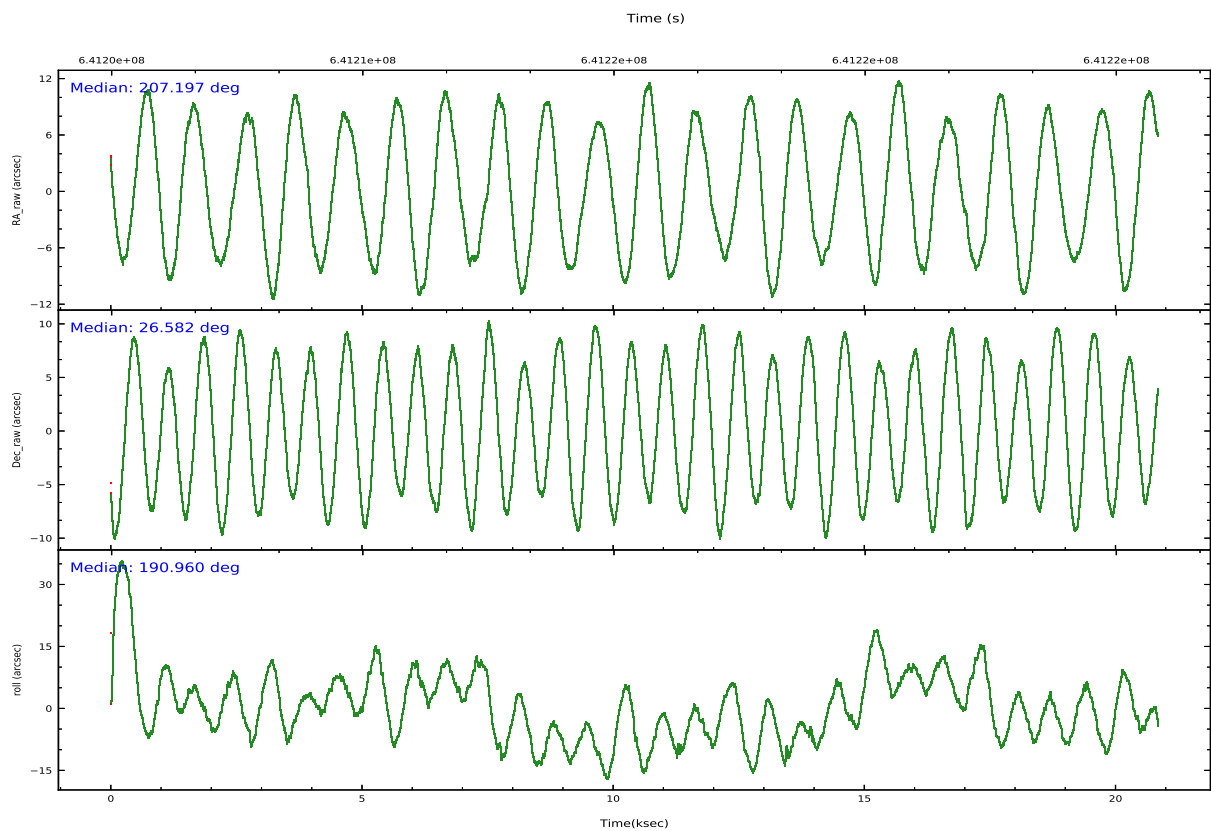
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7729	10704	31844	10768	27785
	4%	7%	11%	6%	10%
grade 1 events	98	116	687	102	299
	0%	0%	0%	0%	0%
grade 2 events	3894	3928	39724	5212	38920
	2%	2%	14%	3%	14%
grade 3 events	1643	1793	4273	1723	15797
	1%	1%	1%	1%	5%
grade 4 events	1681	1830	3626	1743	15157
	1%	1%	1%	1%	5%
grade 5 events	5527	6767	15831	6573	19390
	3%	4%	5%	4%	6%
grade 6 events	3178	3516	62935	4473	68242
	2%	2%	23%	2%	24%
grade 7 events	133041	124256	114489	131061	92095
	84%	81%	41%	81%	33%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	207.219410	207.20205476225	CCD I2 on	Y	Y
[deg] Pointing Dec	26.599950	26.588986770736	CCD I3 on	O1	Y
[deg] Pointing Roll	190.803455	190.96013628654	CCD S0 on	N	N
[s] Window start time (MET)	638928069.184000	638928069.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	641433669.184000	641433669.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	N	N
[mm] SIM translation stage pos	-199.932523	-199.9383527800512	CCD S5 on	N	N
[mm] SIM translation stage offset	9.8000000000000001	9.805830197043406	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	641205833.184000	641204562.35701	On-chip summing requested	N	N
Observation start date	2018-04-27T08:42:44	2018-04-27T08:22:42	Subarray requested	NONE	NONE
[s] Observation end time (MET)	641225833.184000	641227013.44584	Alternating exposures requested	N	N
Observation end date	2018-04-27T14:16:04	2018-04-27T14:36:53	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



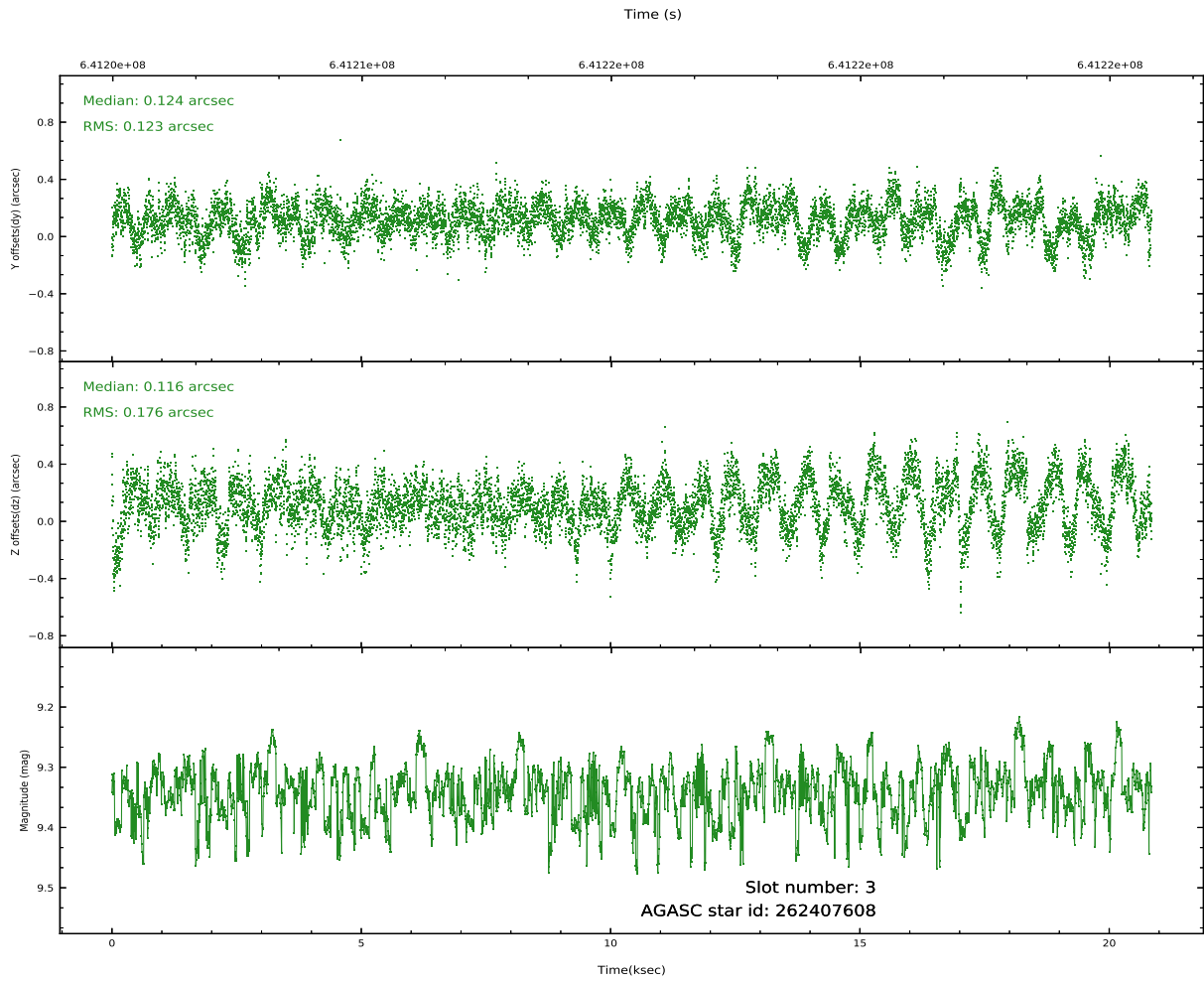
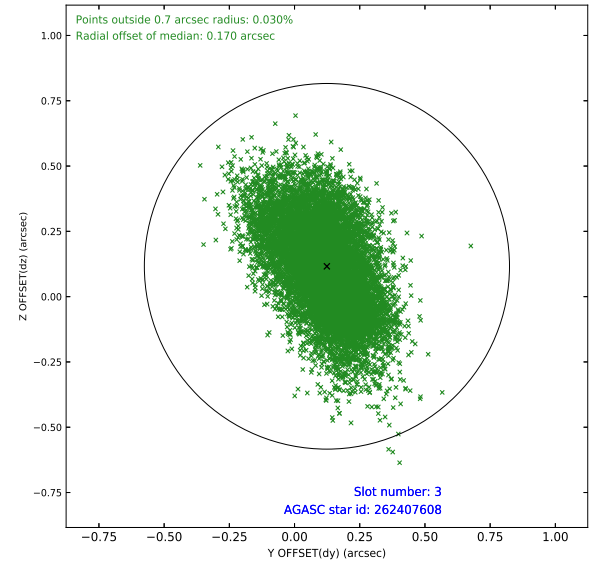
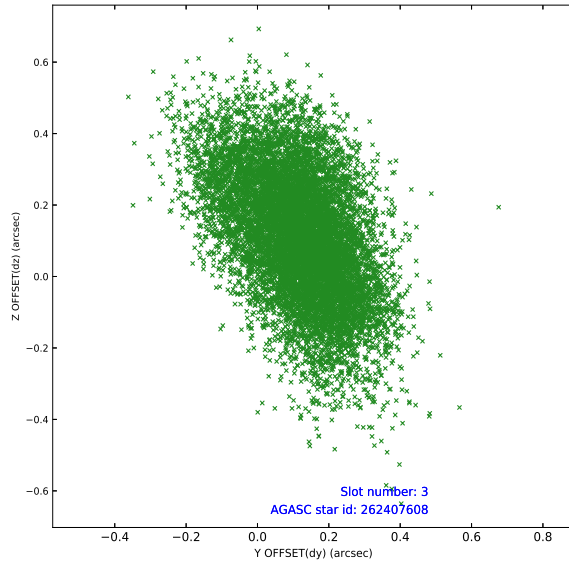


Slot Statistics

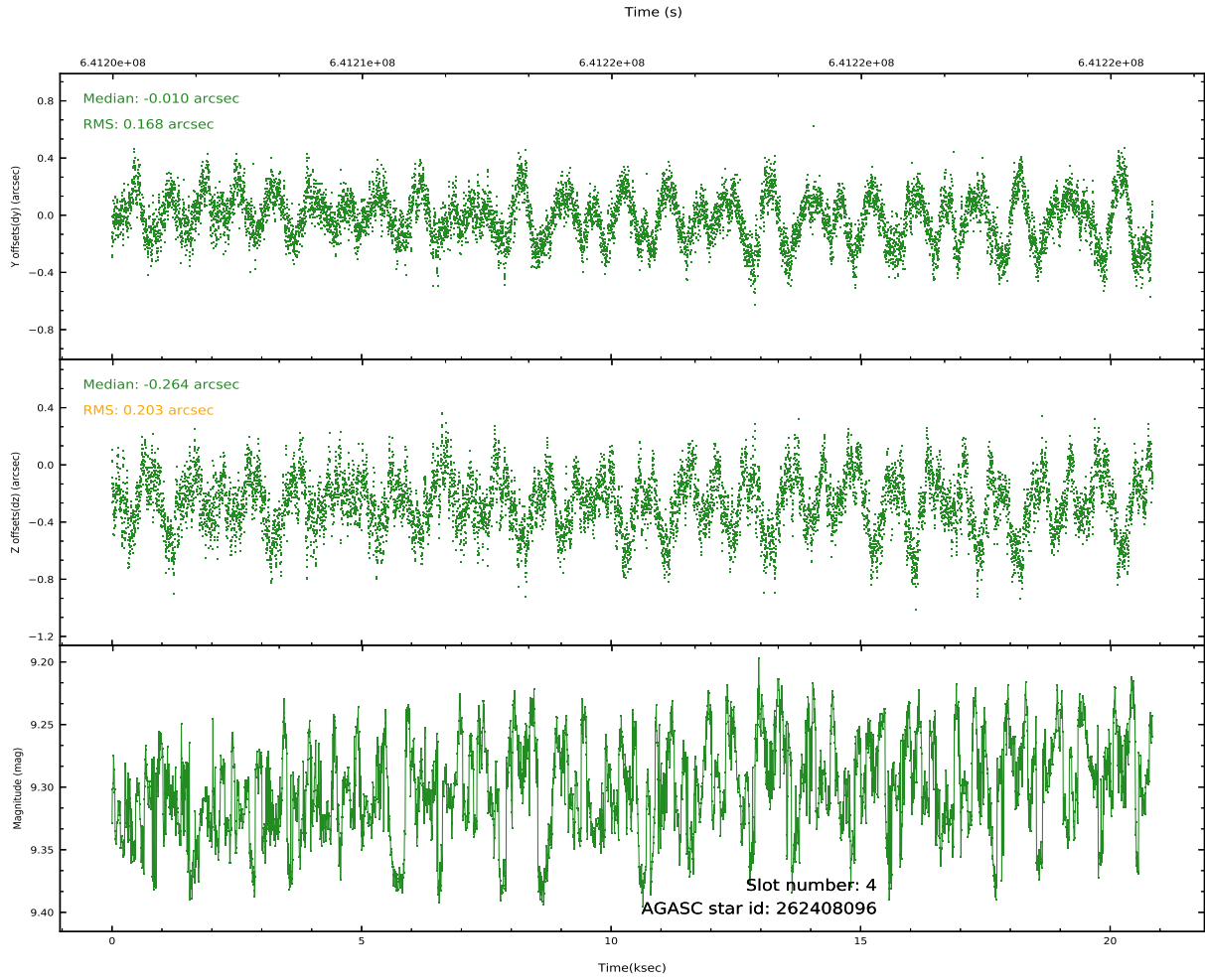
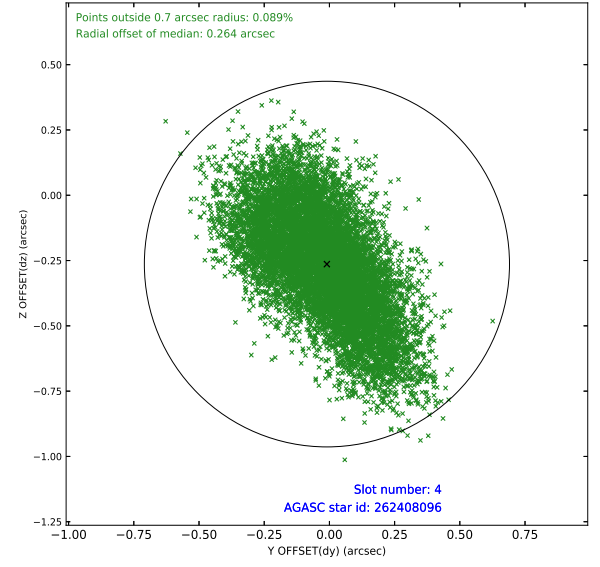
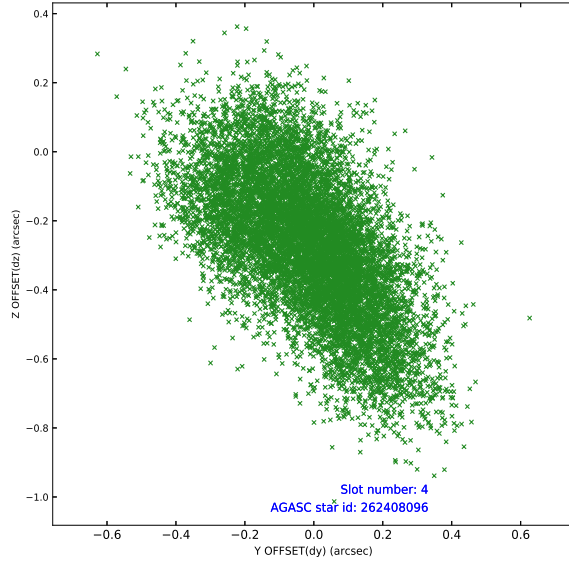
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	5086	1.000	0.186	0.047	0.011	0.021	0.000000	0.000000	-775.49	-1540
1	FID		ACIS-S-4	7.19	5086	1.000	0.074	-0.102	0.009	0.024	0.000000	0.000000	2137.87	366
2	FID		ACIS-S-5	7.20	5086	1.000	-0.290	0.064	0.009	0.017	0.000000	0.000000	-1828.31	361
3	GUIDE	used	262407608	9.34	10151	1.000	0.124	0.116	0.226	0.379	207.378401	26.435507	-392.40	677
4	GUIDE	used	262408096	9.30	10155	1.000	-0.010	-0.264	0.282	0.464	207.011678	26.515421	715.06	172
5	GUIDE	used	262408512	7.96	10164	1.000	-0.033	0.119	0.147	0.246	207.800210	27.128796	-2185.09	-1525
6	GUIDE	used	262408936	9.63	10127	1.000	0.209	0.015	0.329	0.539	207.154731	26.726554	118.90	-486
7	GUIDE	used	262414456	9.25	10154	1.000	-0.282	0.035	0.194	0.328	208.043290	26.129682	-2300.26	2154

2.4 Star Slots

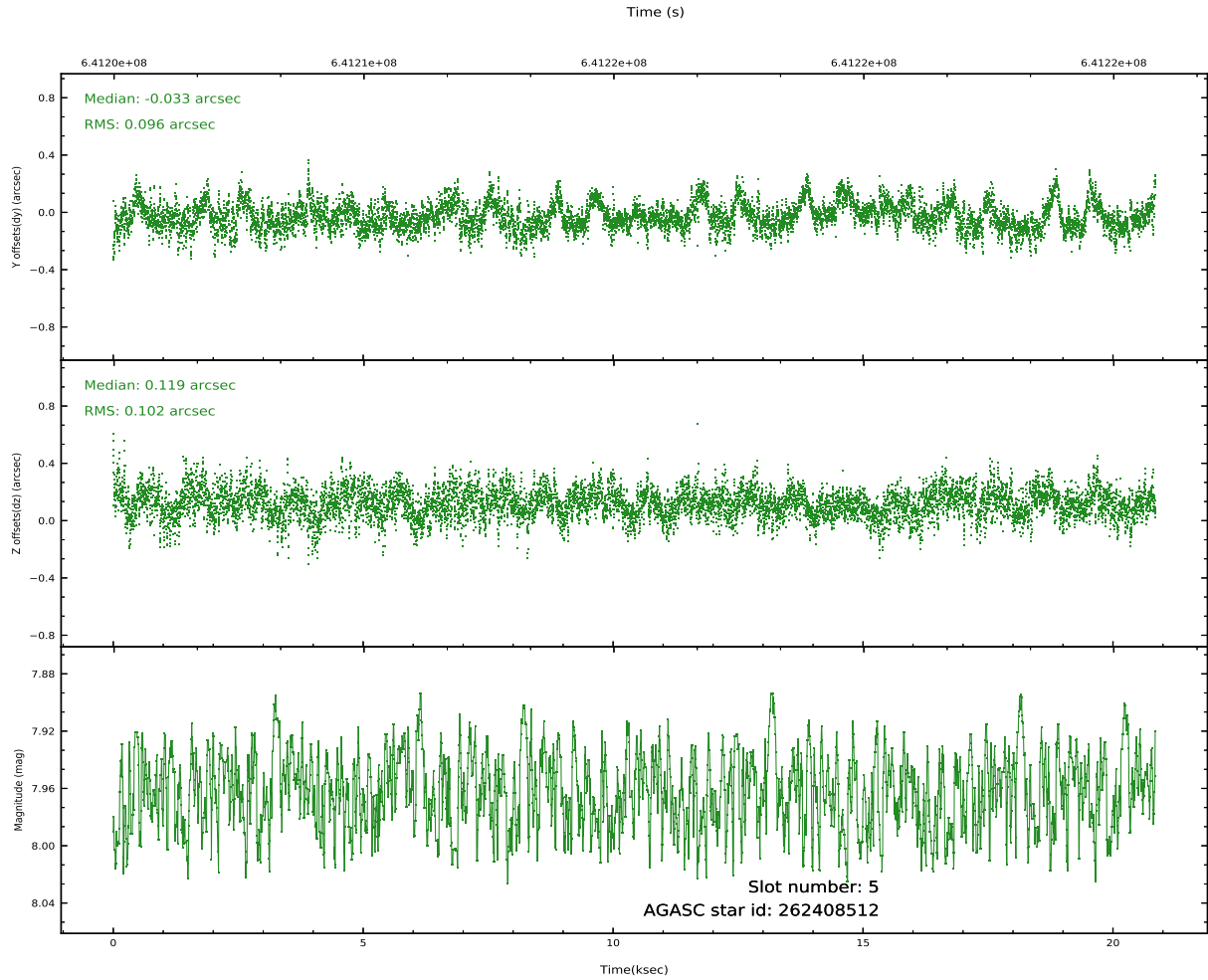
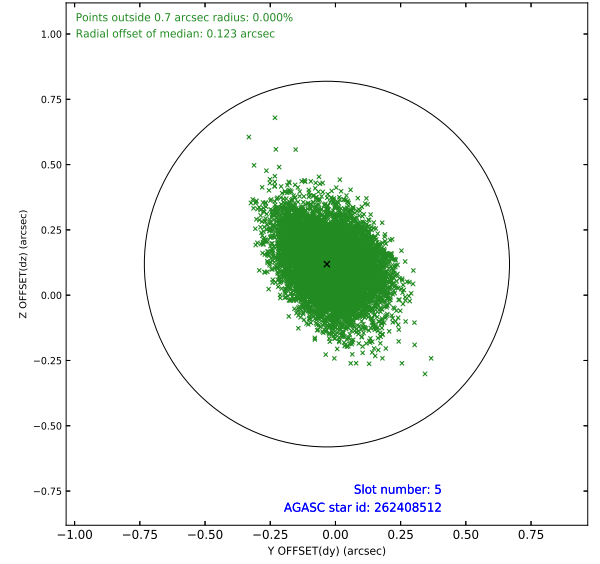
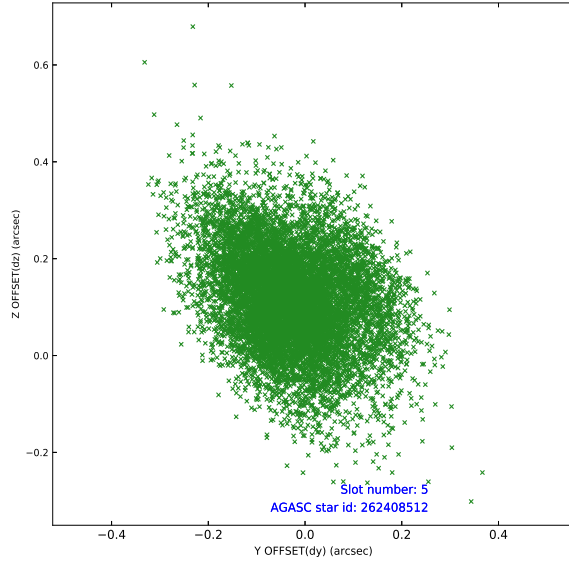
2.4.1 Slot 3



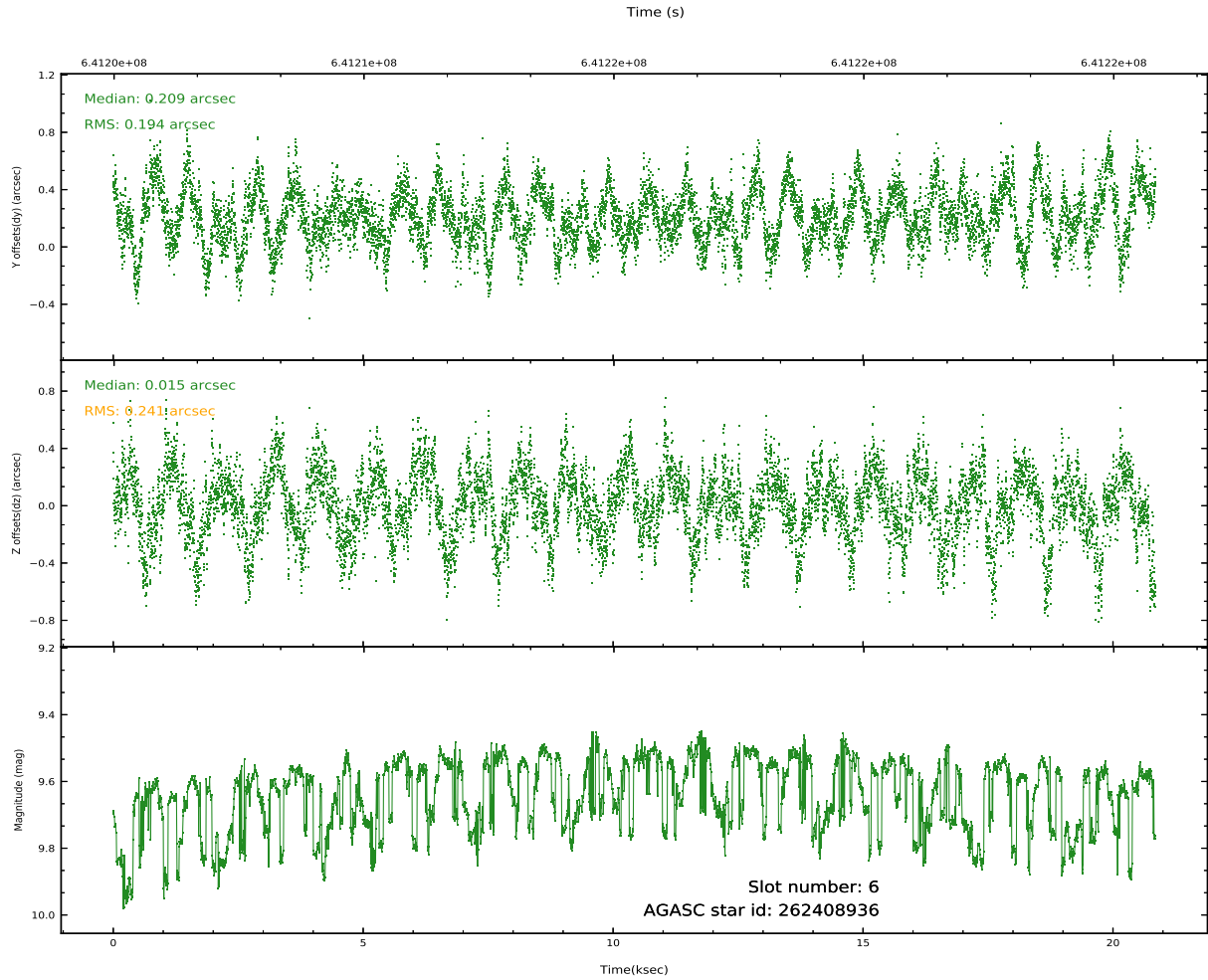
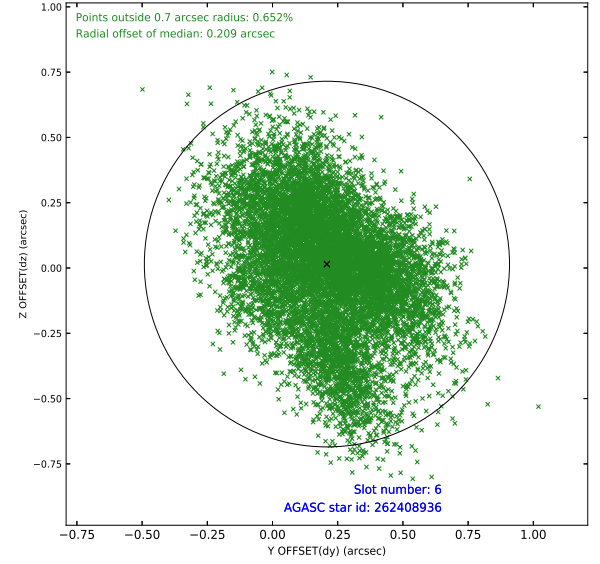
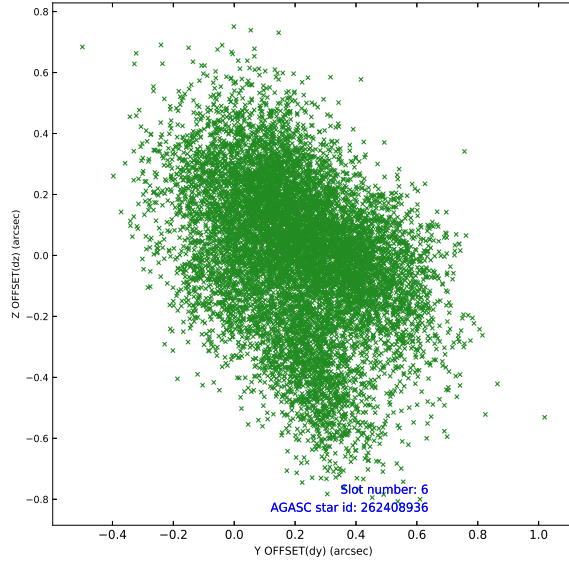
2.4.2 Slot 4



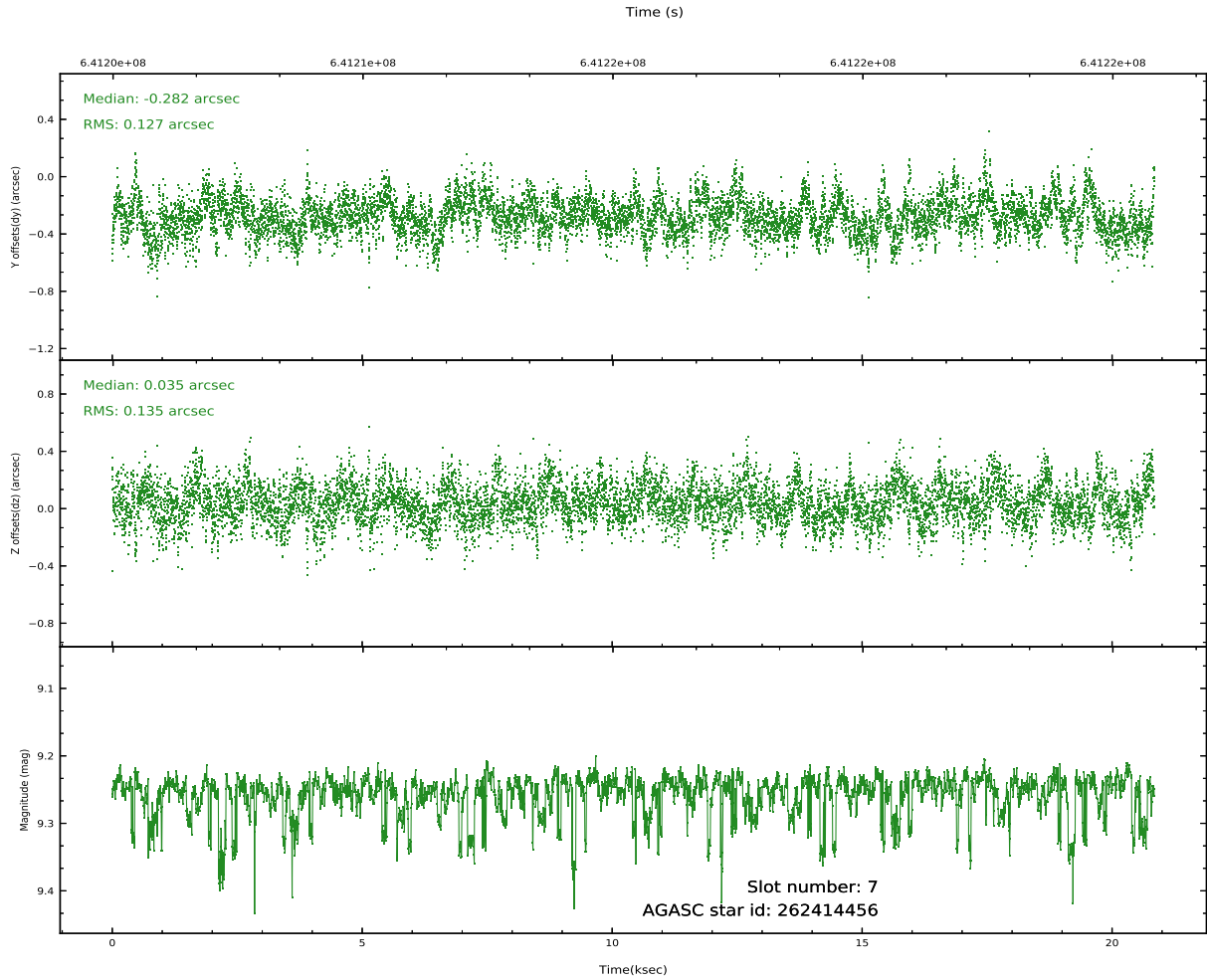
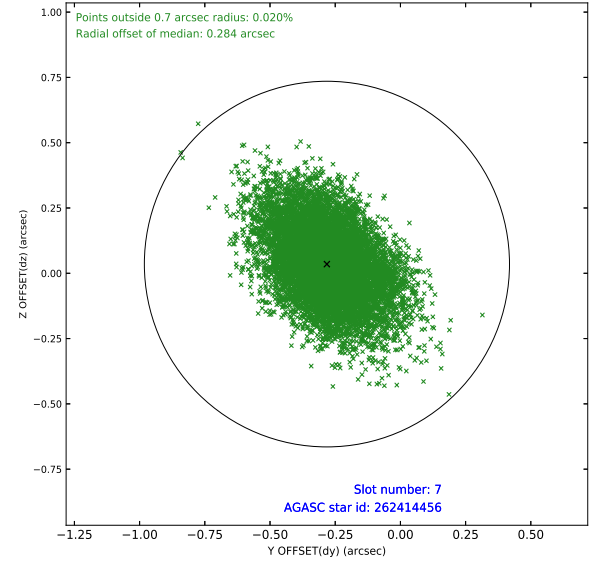
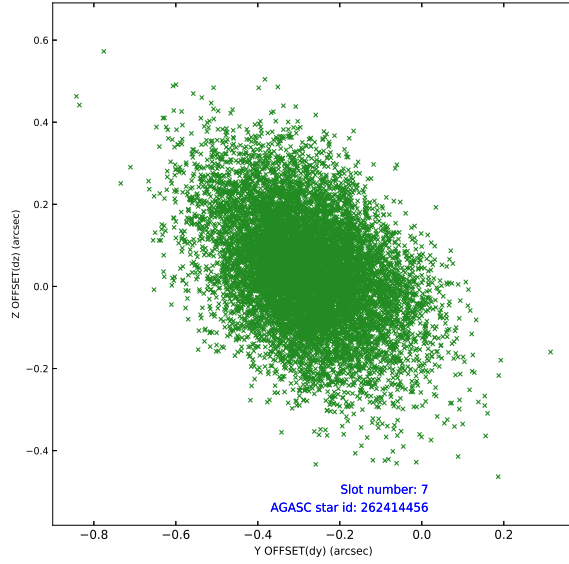
2.4.3 Slot 5



2.4.4 Slot 6

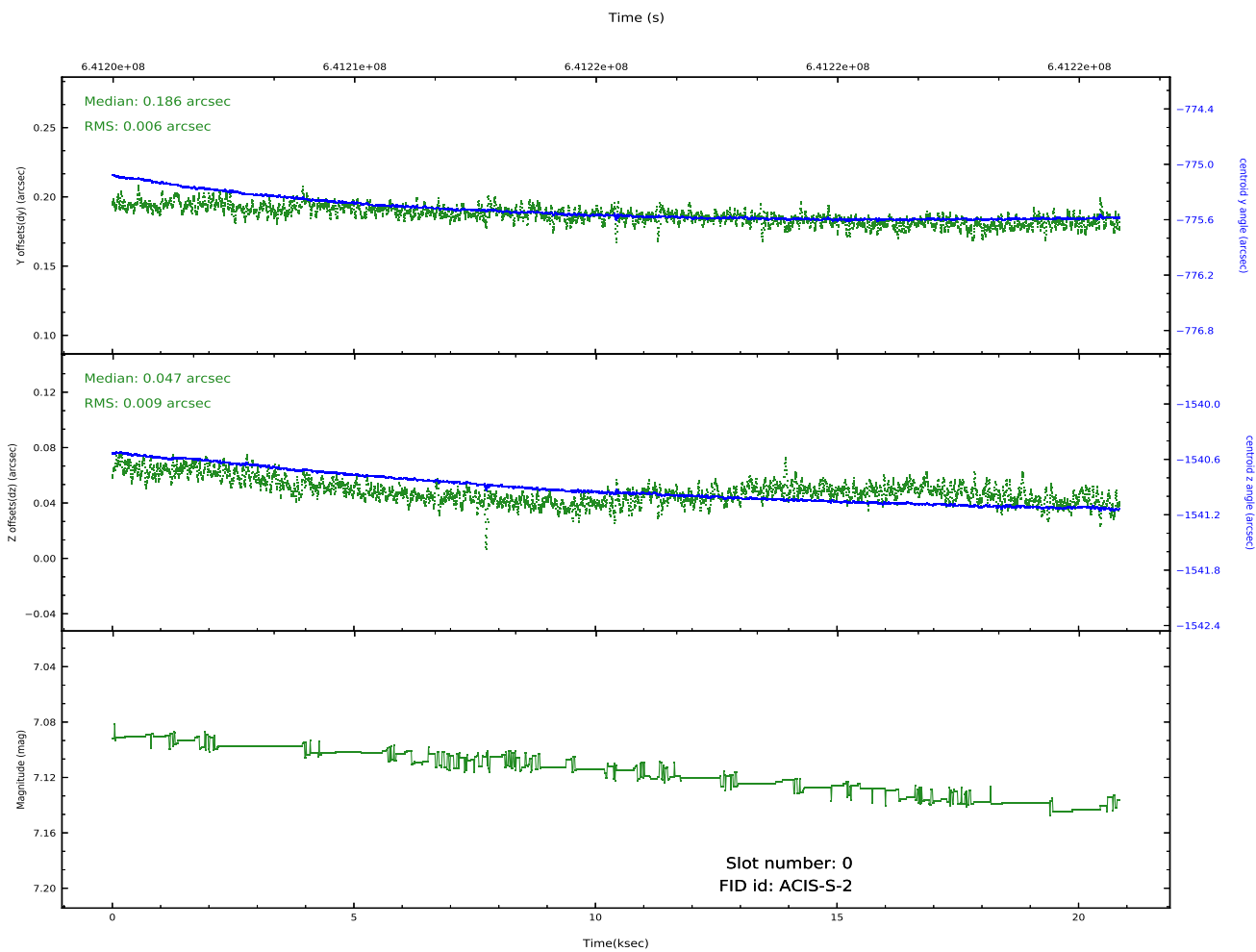
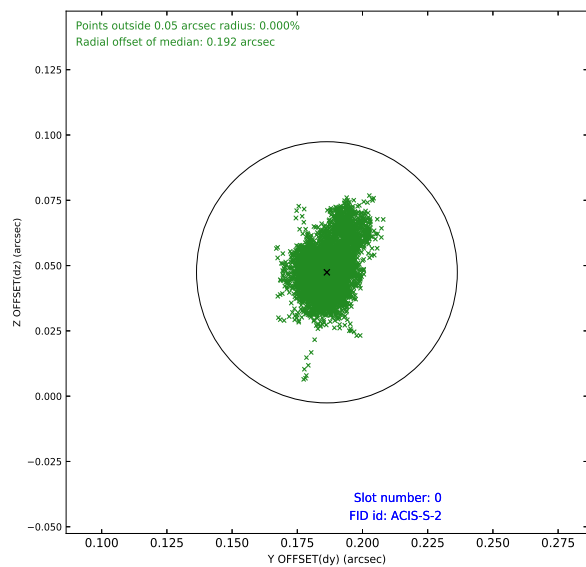
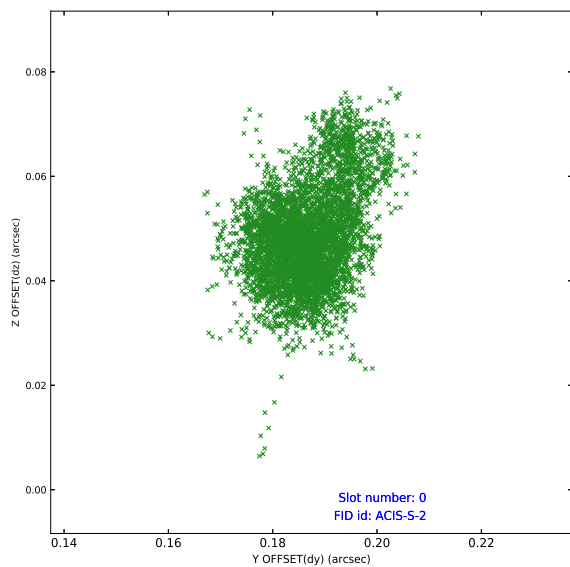


2.4.5 Slot 7

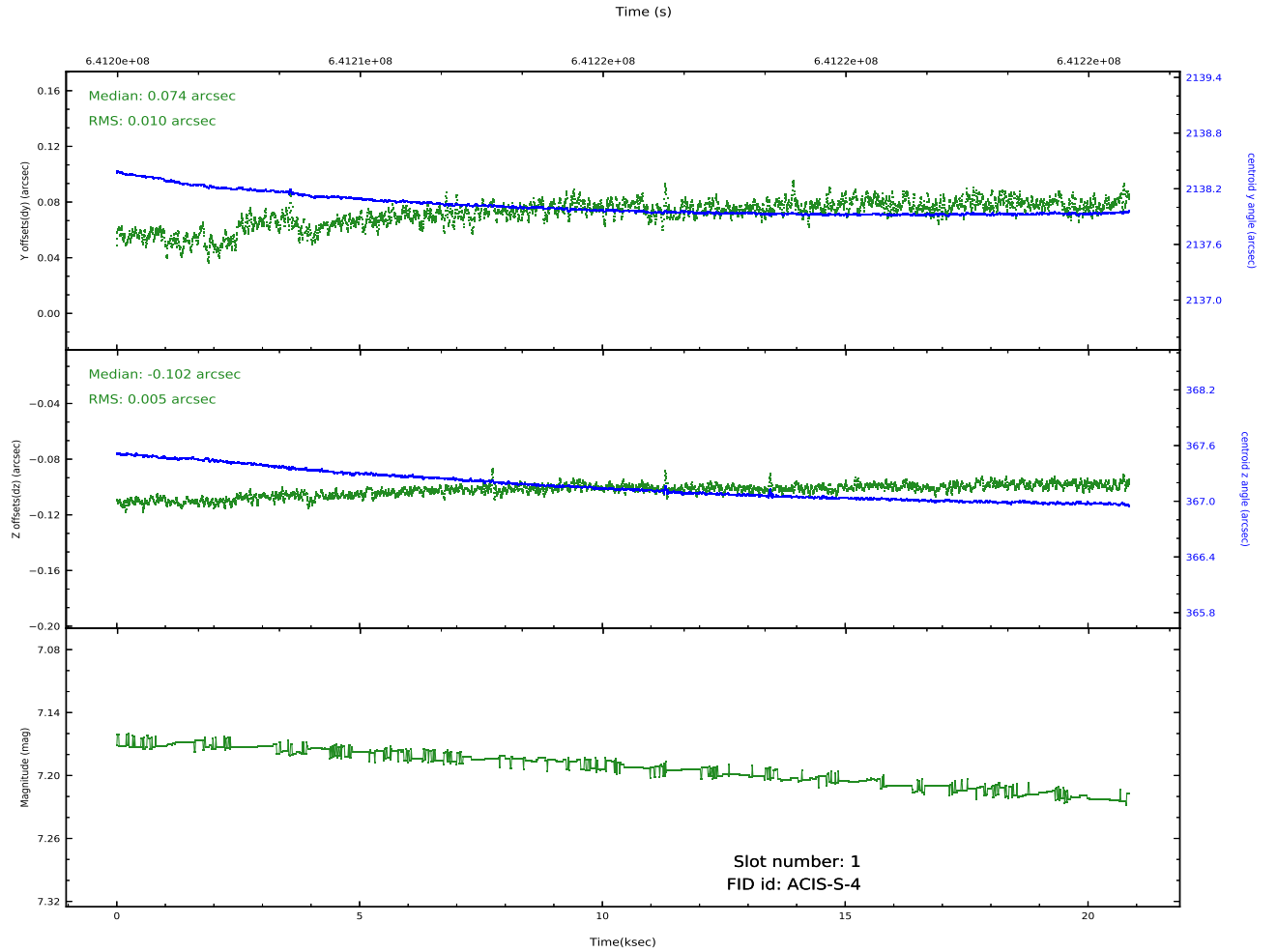
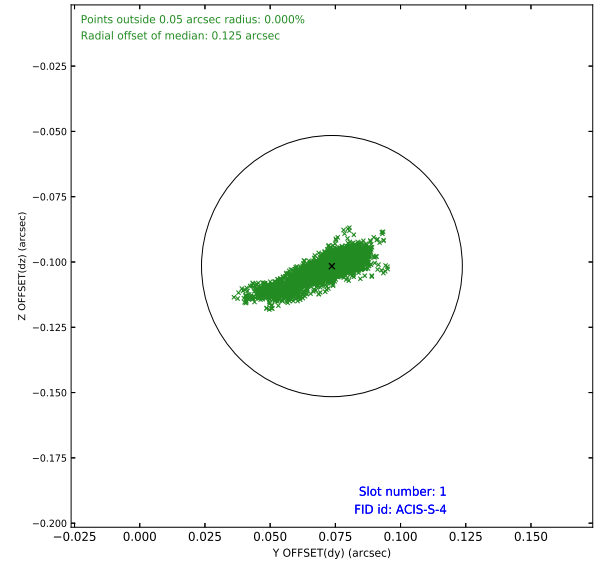
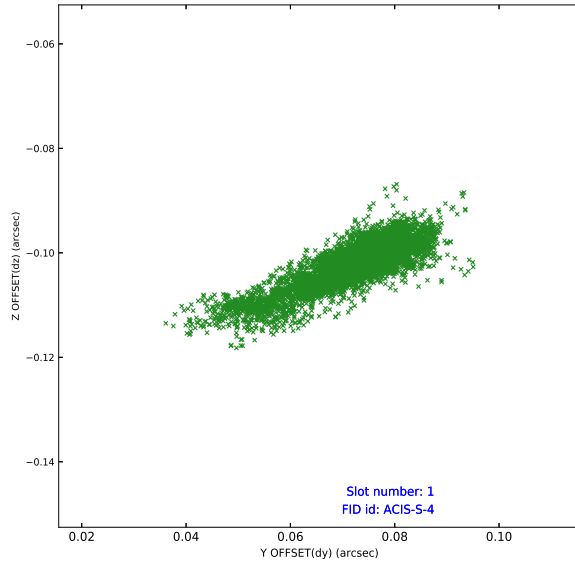


2.5 FID Slots

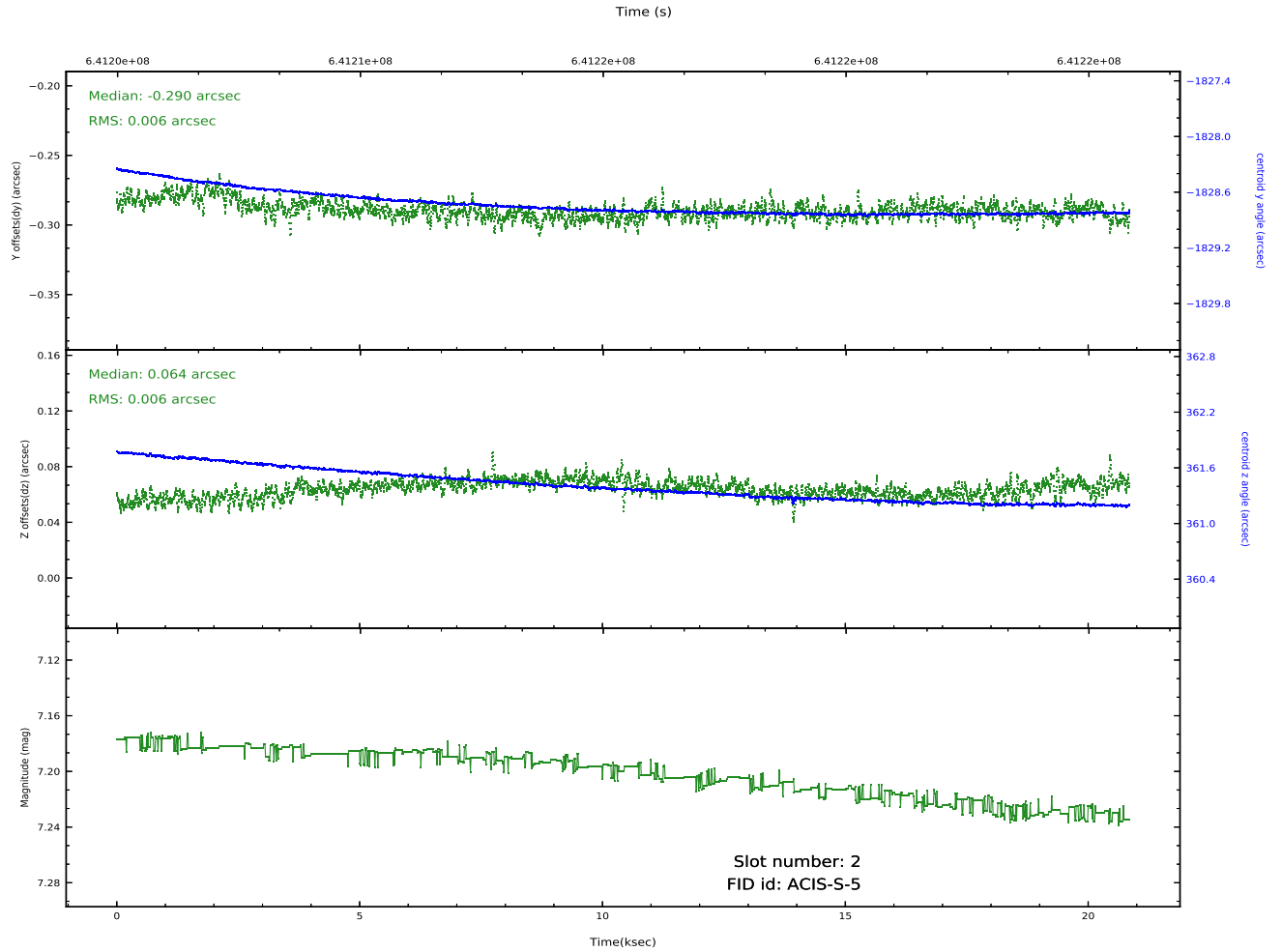
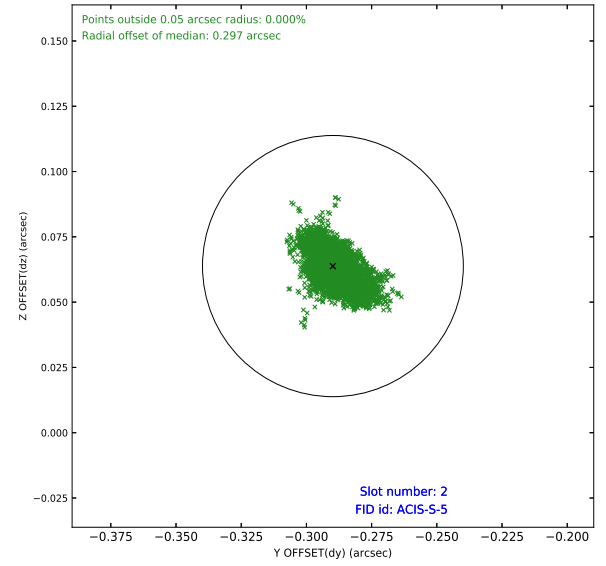
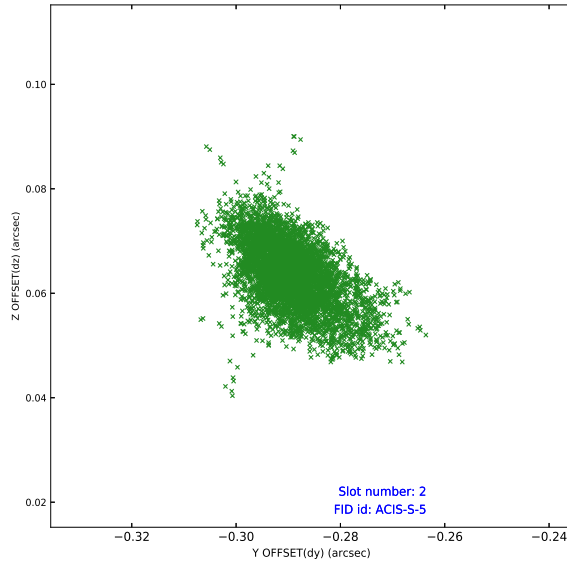
2.5.1 Slot 0



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	20.052722172976

A.2 Comments

Window constraint was met.