

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6079 - L2 Version 4
Chandra X-Ray Center

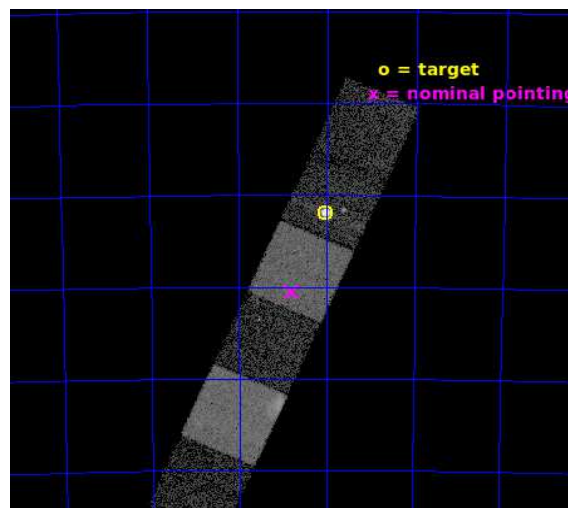
L2 Processing Date : Oct 5 2020

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1 Front

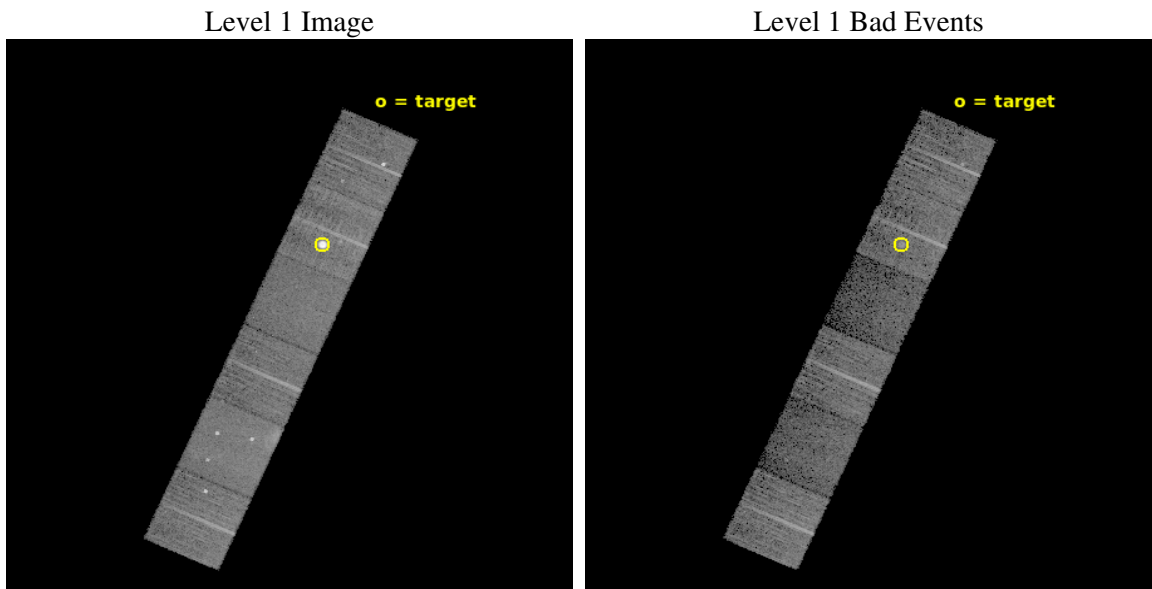
seq_num	590406	Sequence number
obs_id	6079	Observation id
title	AO6A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.196715702996	Nominal RA [deg]
dec_nom	-72.175475466214	Nominal Dec [deg]
roll_nom	293.97237178285	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7954.9588756263	Sum of GTIs [s]
livetime	7854.228396442	Livetime [s]
ontime4	7951.8820653558	Sum of GTIs [s]
ontime5	7955.0409556329	Sum of GTIs [s]
ontime6	7954.9999156296	Sum of GTIs [s]
ontime7	7955.0819956362	Sum of GTIs [s]
ontime8	7954.9588756263	Sum of GTIs [s]
ontime9	7954.9178356528	Sum of GTIs [s]
l2events	96412	Number of level 2 events



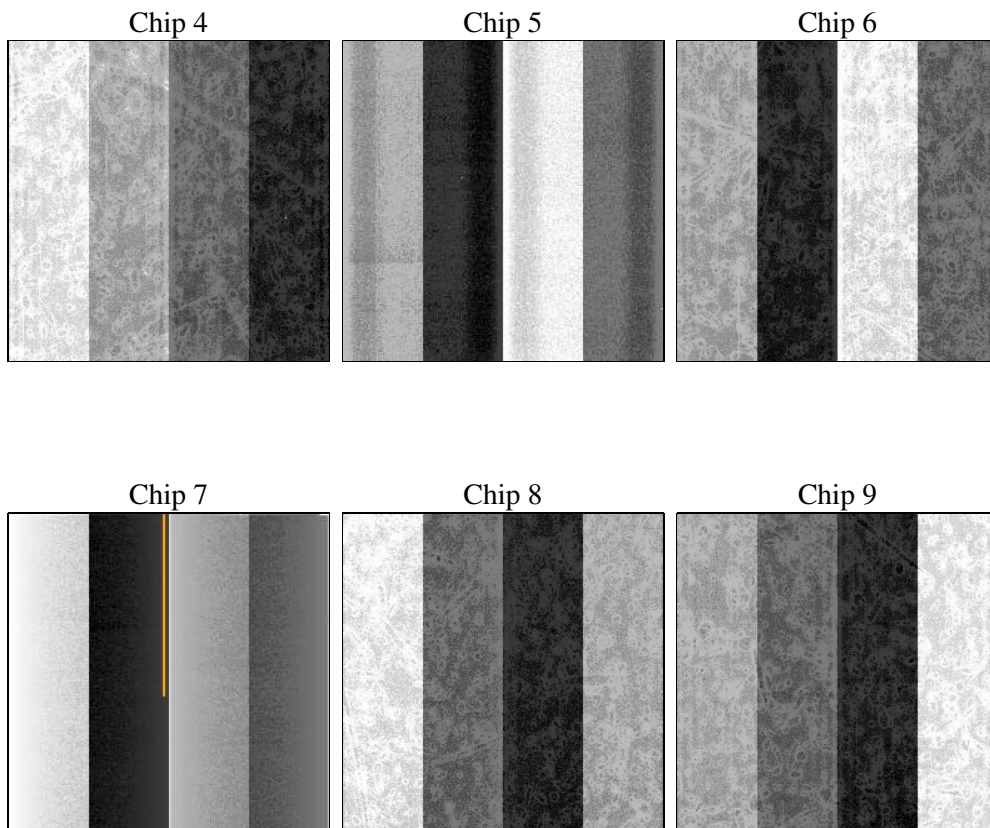
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	7954.9588756263	Sum of GTIs [s]
caldsver	4.9.2	 	ontime4	7951.8820653558	Sum of GTIs [s]
date	2020-10-05T17:51:35	Date and time of file creation	ontime5	7955.0409556329	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7954.9999156296	Sum of GTIs [s]
			ontime7	7955.0819956362	Sum of GTIs [s]
			ontime8	7954.9588756263	Sum of GTIs [s]
			ontime9	7954.9178356528	Sum of GTIs [s]
			l1events	355430	Number of level 1 events

2.1.4 Events

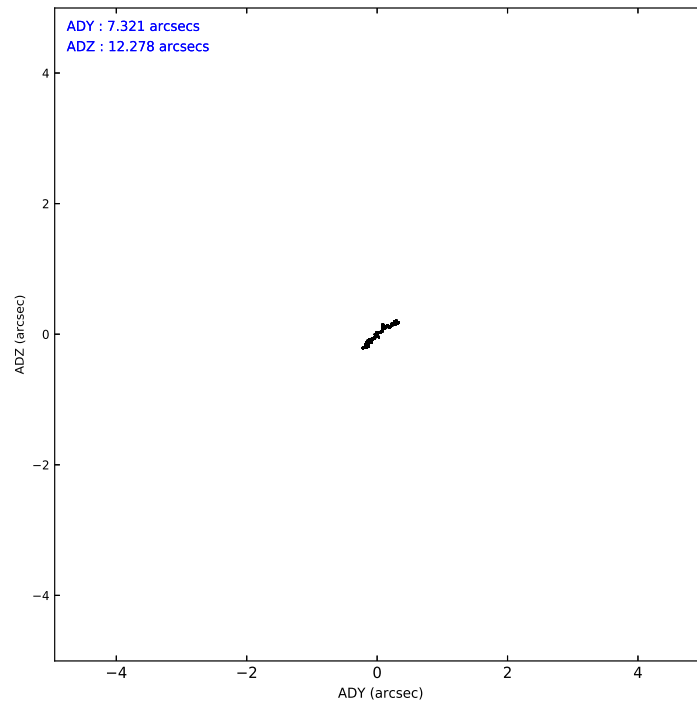
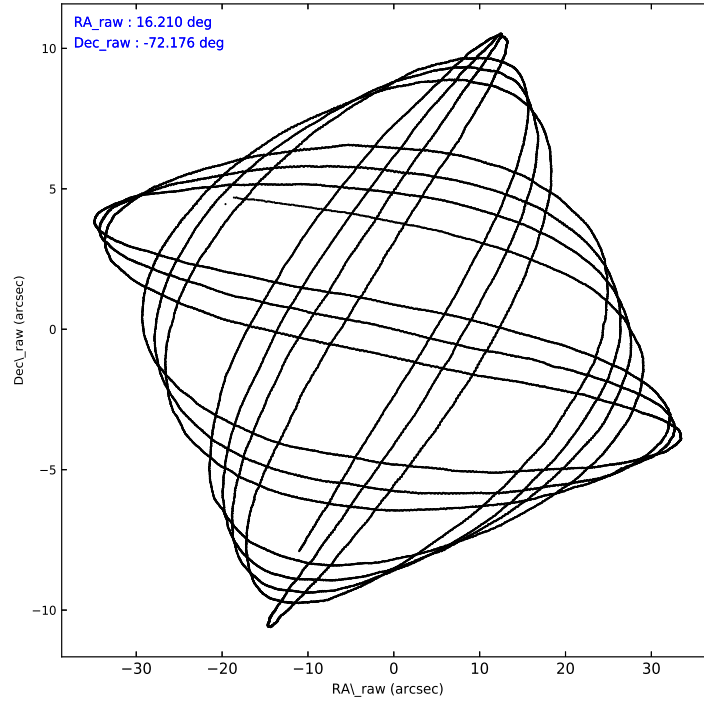
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	57777	63484	50768	47295	85450	50656	grade 0 events	3597	6996	1994	2745	26467	2055
rejected events	51065	27514	45666	23403	45999	42969		6%	11%	3%	5%	30%	4%
rejected %	88%	43%	89%	49%	53%	84%	grade 1 events	63	160	22	51	208	252
								0%	0%	0%	0%	0%	0%
							grade 2 events	1231	9613	1053	5057	5135	3439
								2%	15%	2%	10%	6%	6%
							grade 3 events	565	1718	587	2364	1963	585
								0%	2%	1%	4%	2%	1%
							grade 4 events	536	1665	547	2384	1904	599
								0%	2%	1%	5%	2%	1%
							grade 5 events	1611	5011	1597	4911	2500	1766
								2%	7%	3%	10%	2%	3%
							grade 6 events	784	15996	927	11349	4011	1014
								1%	25%	1%	23%	4%	2%
							grade 7 events	49390	22325	44041	18434	43262	40946
								85%	35%	86%	38%	50%	80%

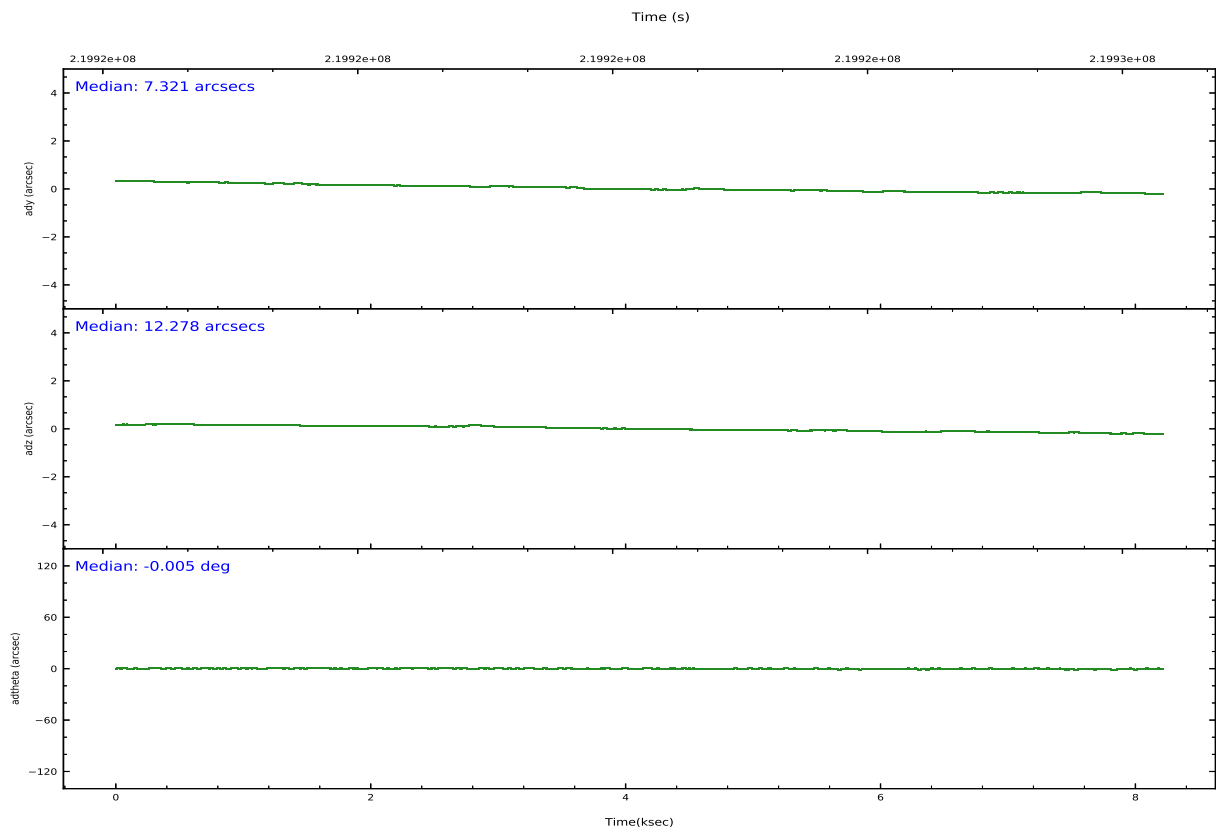
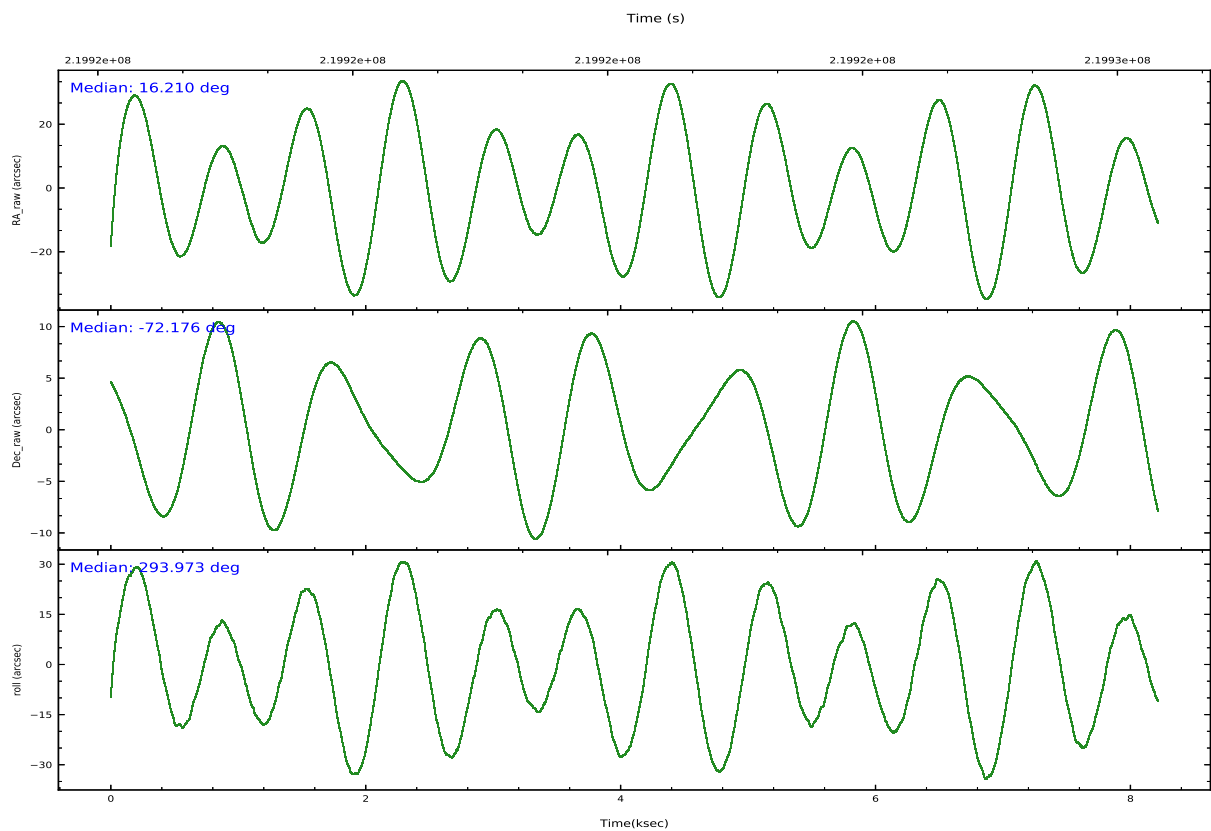
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	16.137364	16.196715702996
[deg] Pointing Dec	-72.160260	-72.175475466214
[deg] Pointing Roll	293.749345	293.97237178285
[s] Window start time (MET)	215654464.184000	215654464.184000
[s] Window stop time (MET)	220838464.184000	220838464.184000
[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)	219918320.184000	219917340.36662
Observation start date	2004-12-20T08:24:16	2004-12-20T08:09:00
[s] Observation end time (MET)	219926320.184000	219926454.15453
Observation end date	2004-12-20T10:37:36	2004-12-20T10:40:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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



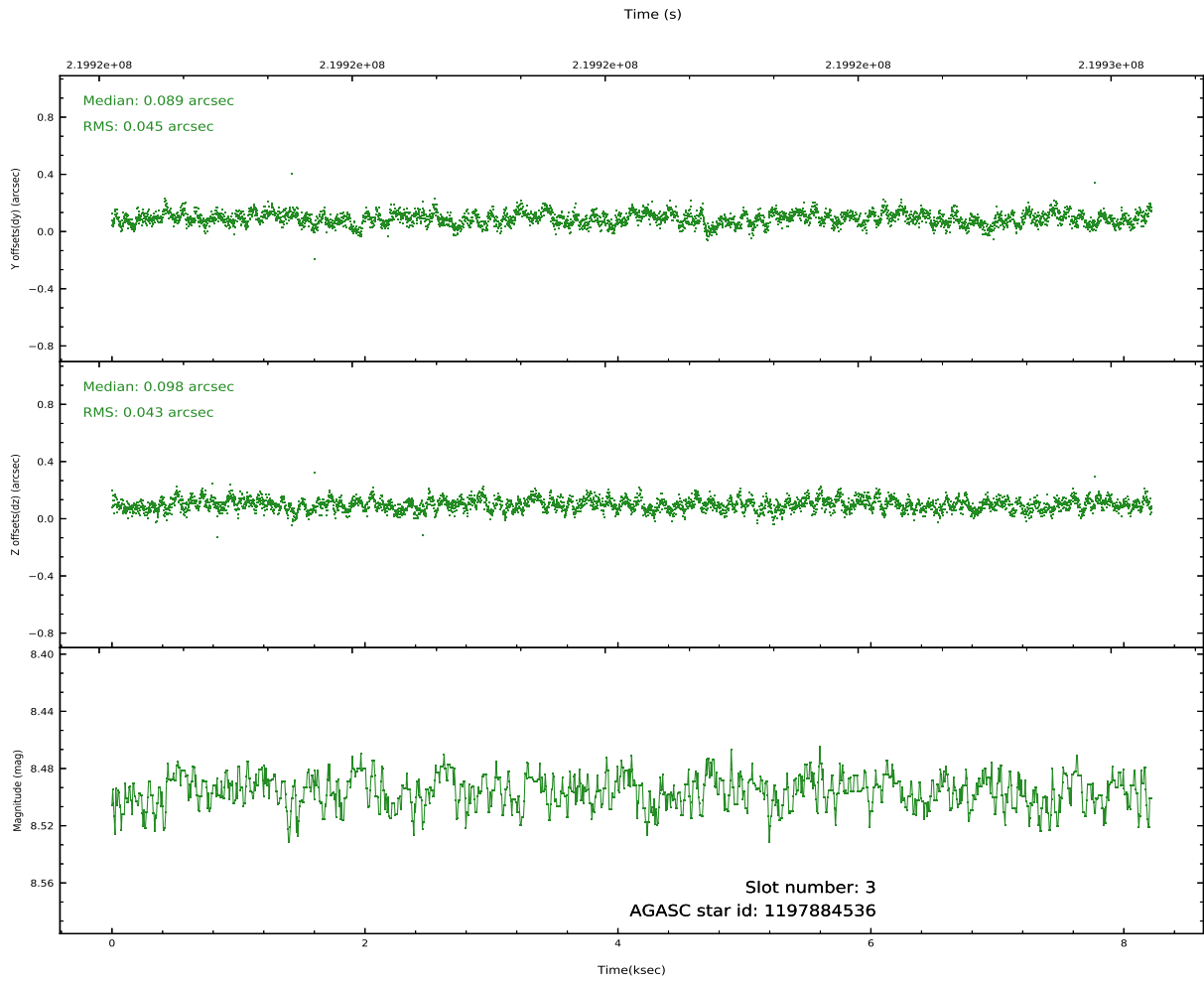
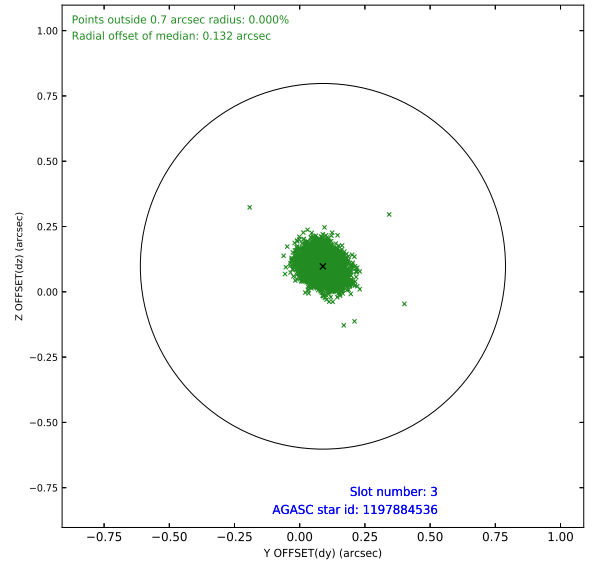
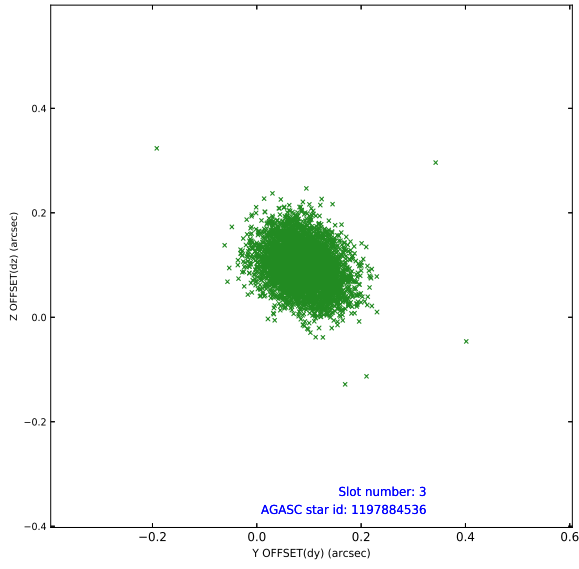


Slot Statistics

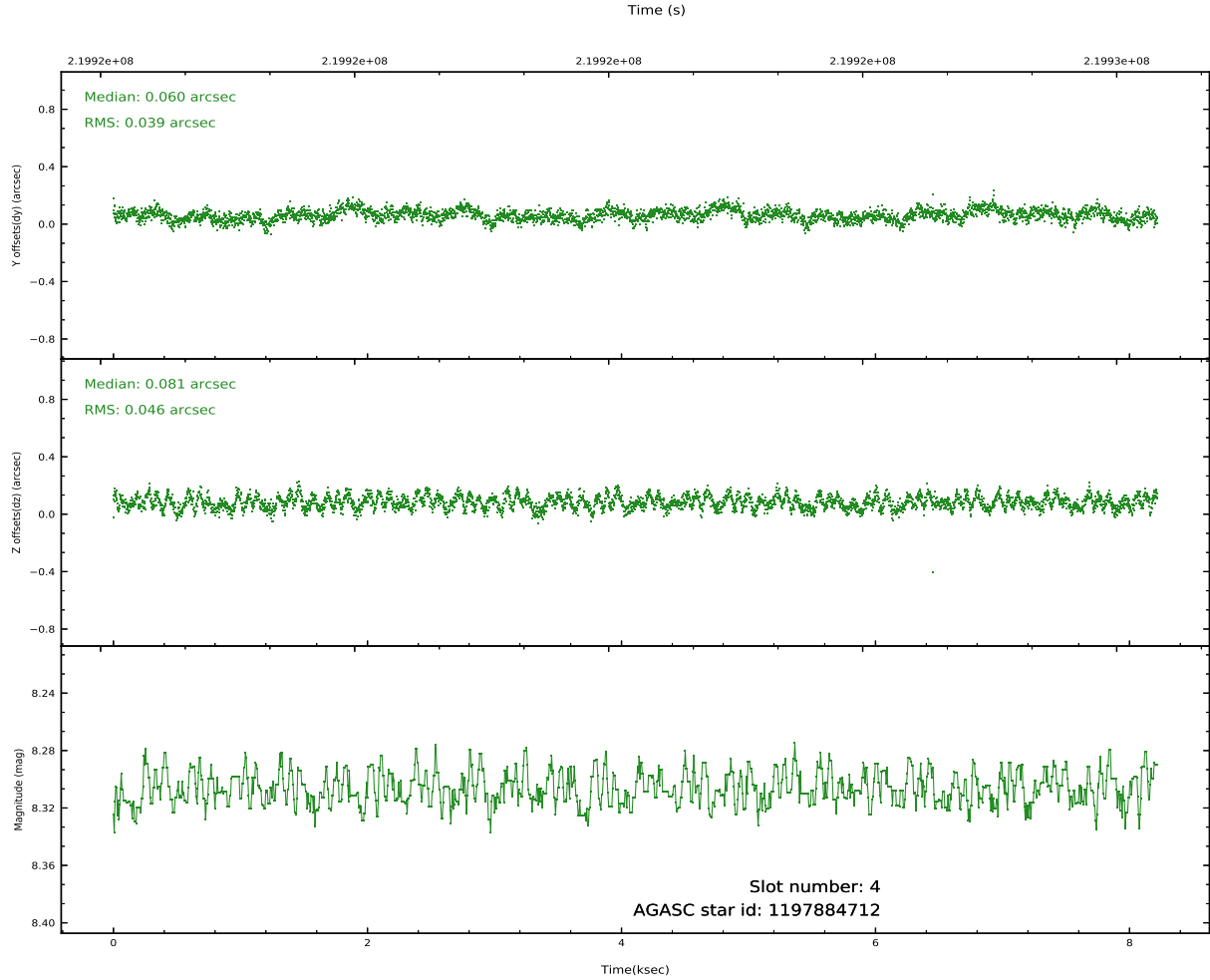
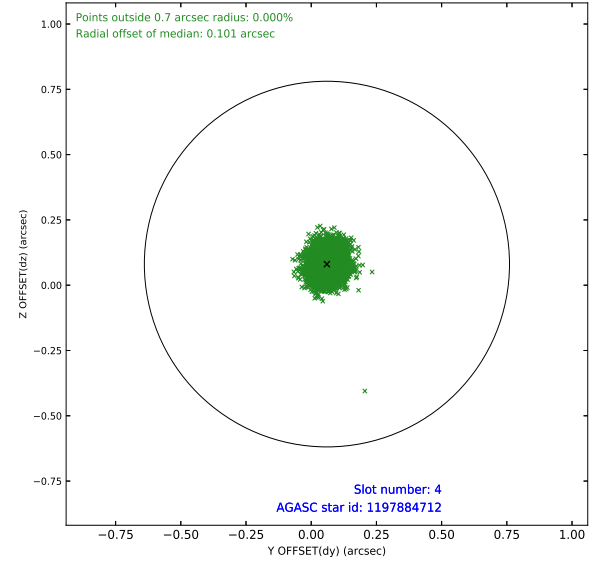
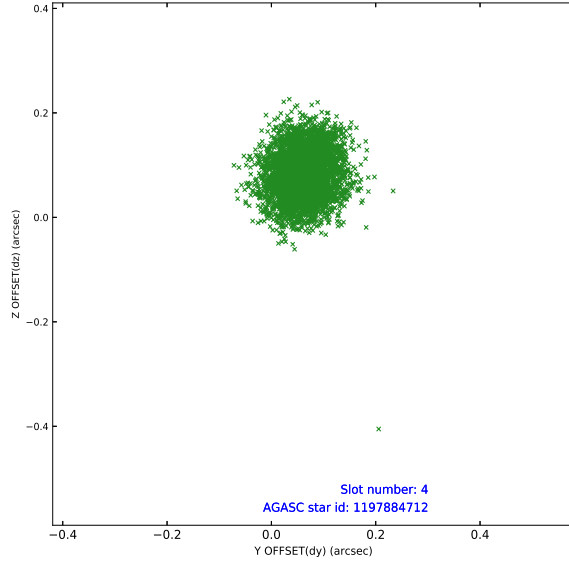
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2005	1.000	-0.048	-0.067	0.009	0.014	0.000000	0.000000	-760.14	-1733
1	FID		ACIS-S-4	7.20	2005	1.000	0.122	0.041	0.006	0.010	0.000000	0.000000	2152.98	174
2	FID		ACIS-S-5	7.23	2005	1.000	-0.106	0.035	0.010	0.017	0.000000	0.000000	-1812.19	168
3	GUIDE	used	1197884536	8.50	4010	1.000	0.089	0.098	0.065	0.104	17.160729	-71.835289	-599.41	1518
4	GUIDE	used	1197884712	8.31	4009	1.000	0.060	0.081	0.065	0.101	16.087398	-72.252690	282.60	-183
5	GUIDE	used	1197885328	7.23	4010	1.000	-0.035	-0.039	0.052	0.083	16.283090	-71.733943	-1338.32	768
6	GUIDE	used	1198189696	7.37	4010	1.000	-0.075	-0.033	0.050	0.079	15.223750	-72.697522	1383.26	-1676
7	GUIDE	used	1197750936	7.55	4009	1.000	-0.044	-0.106	0.053	0.085	15.387940	-71.549550	-2350.76	100

2.4 Star Slots

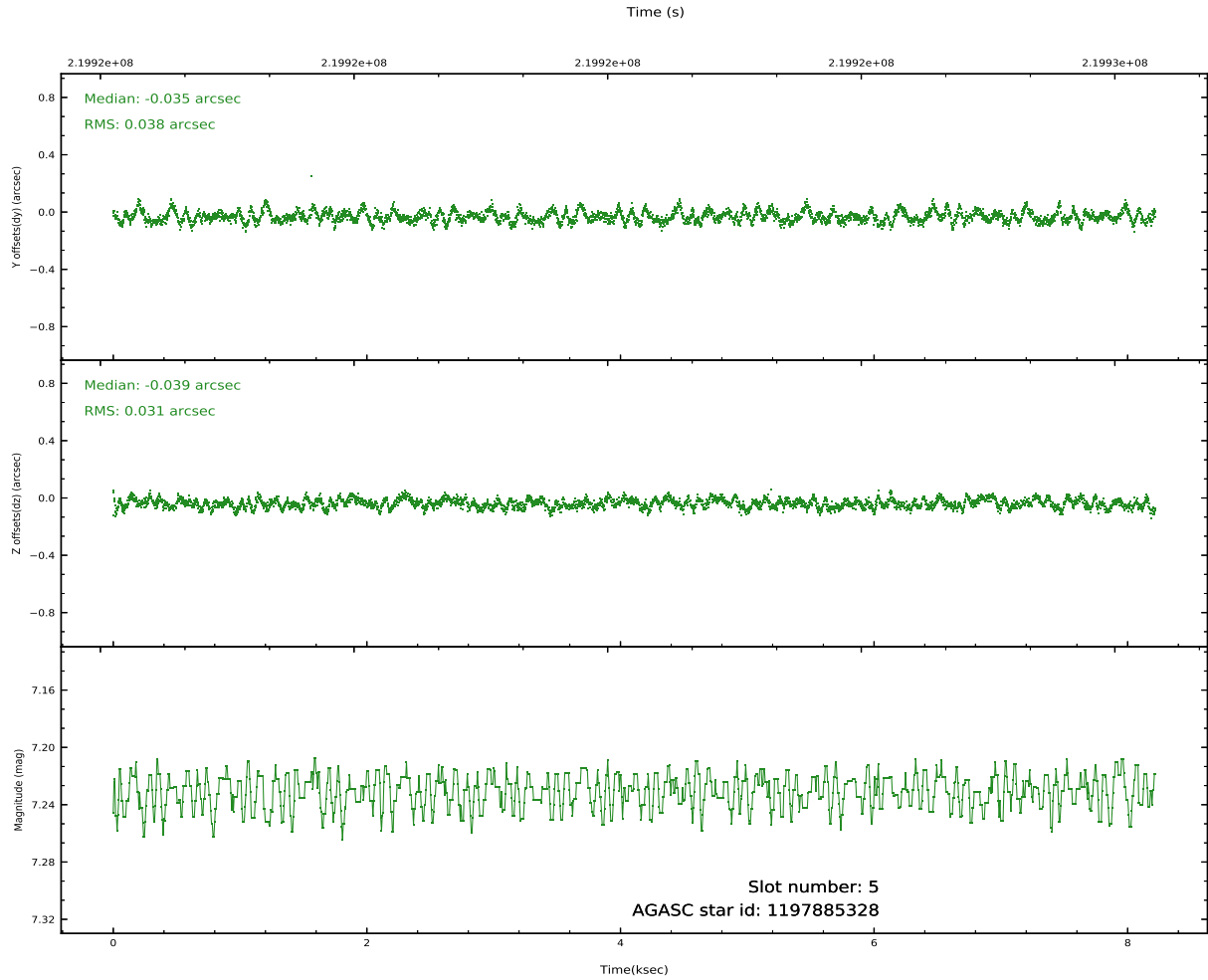
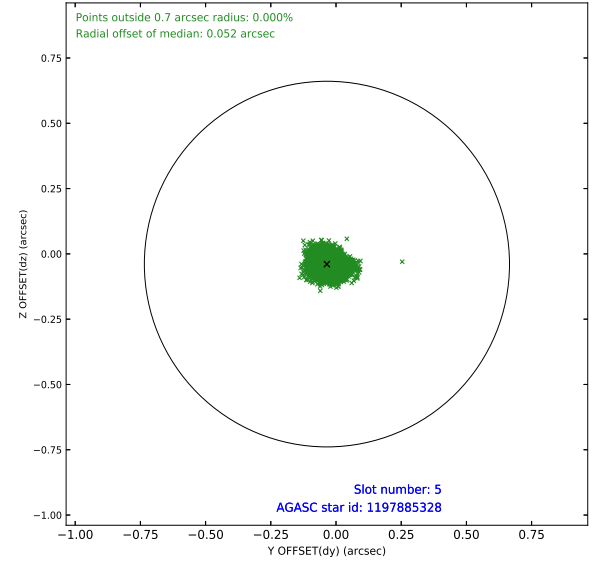
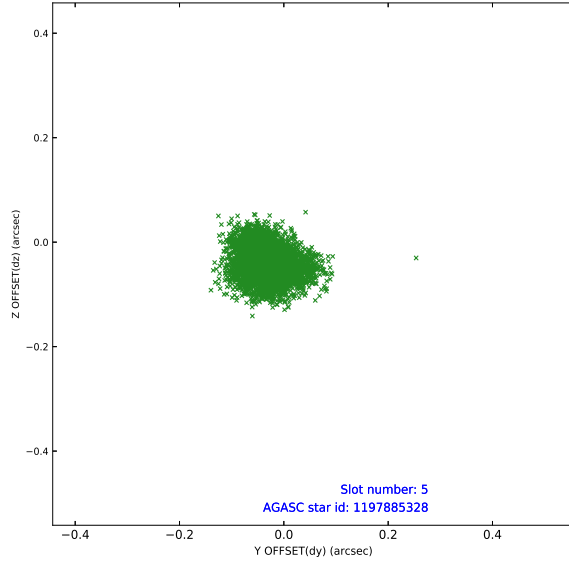
2.4.1 Slot 3



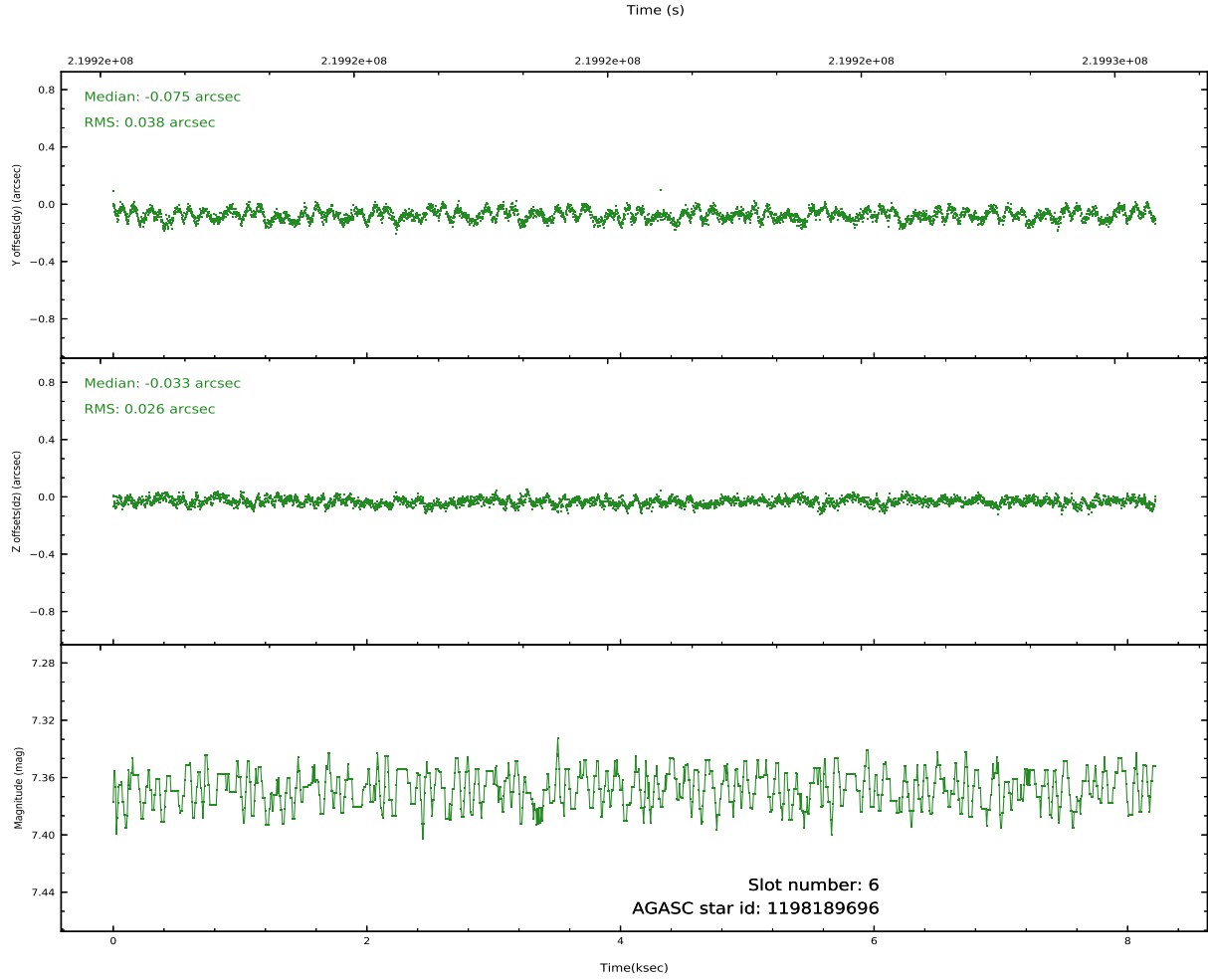
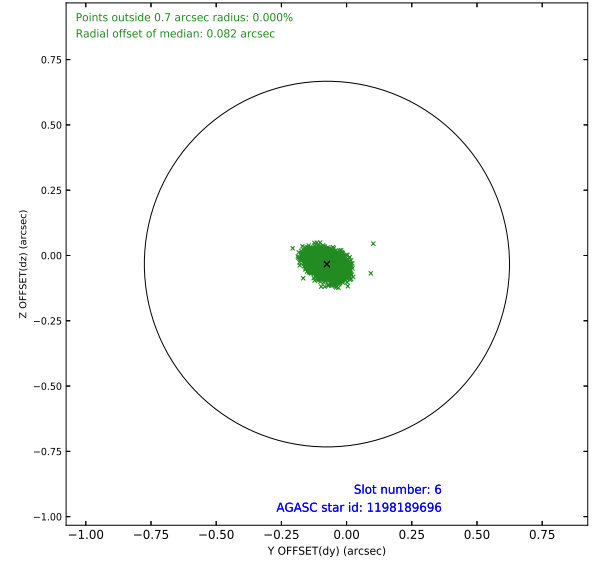
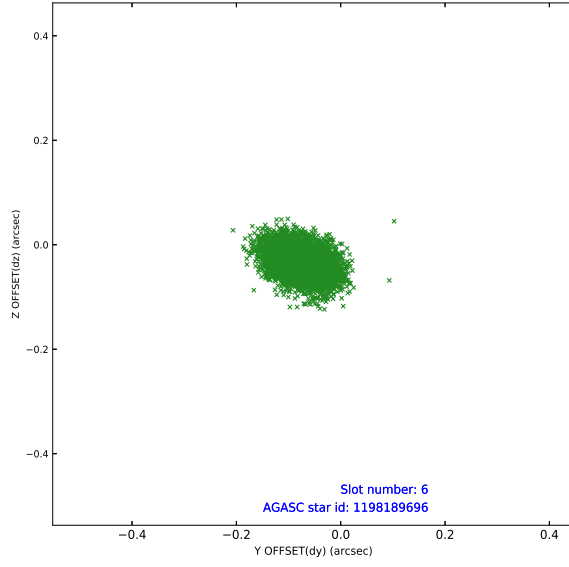
2.4.2 Slot 4



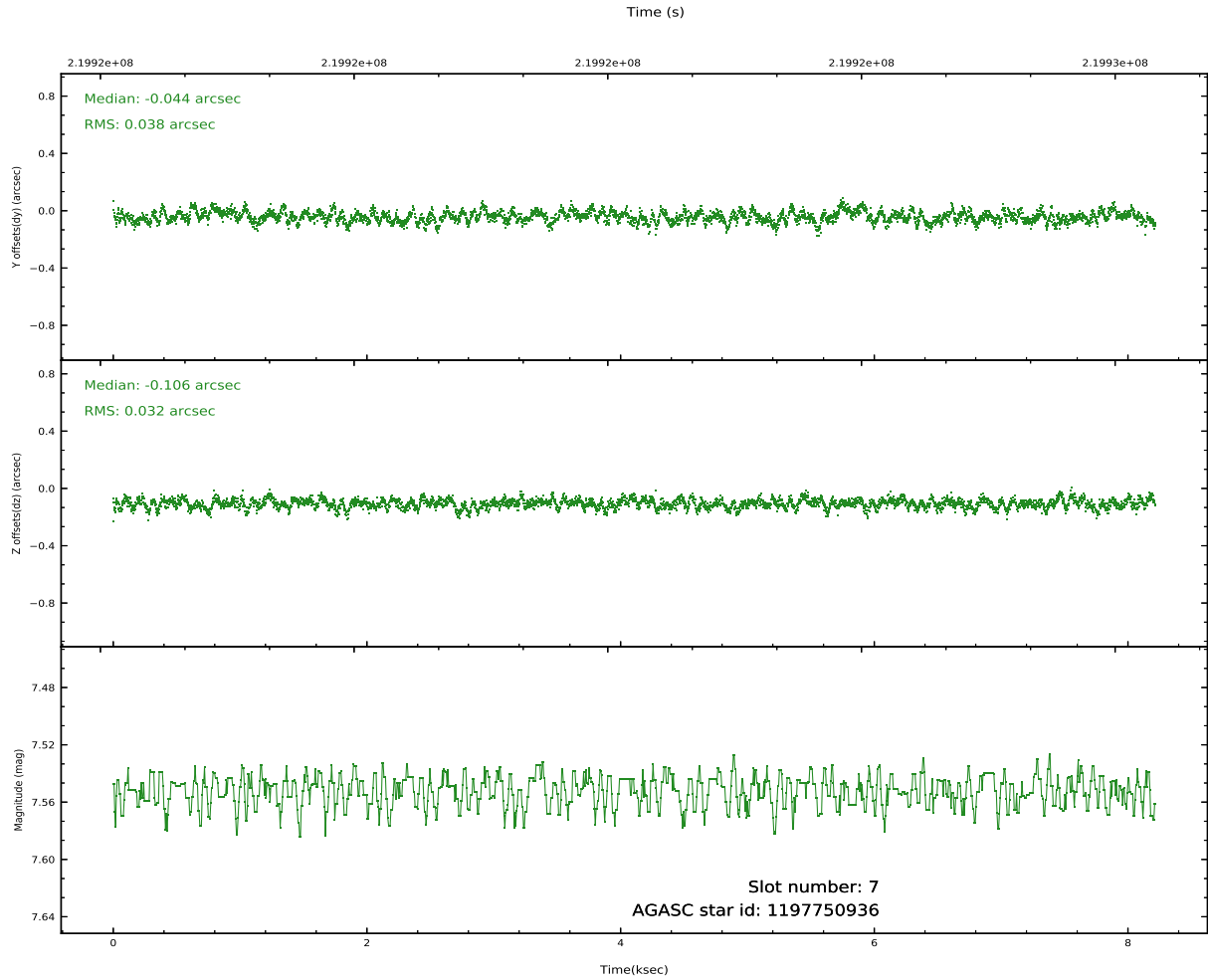
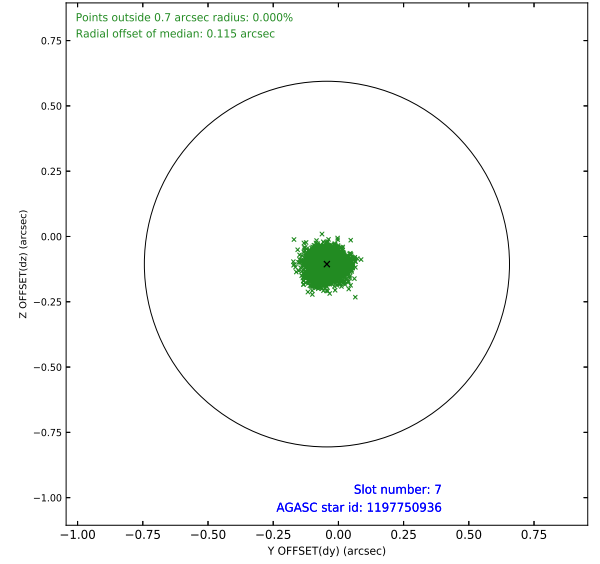
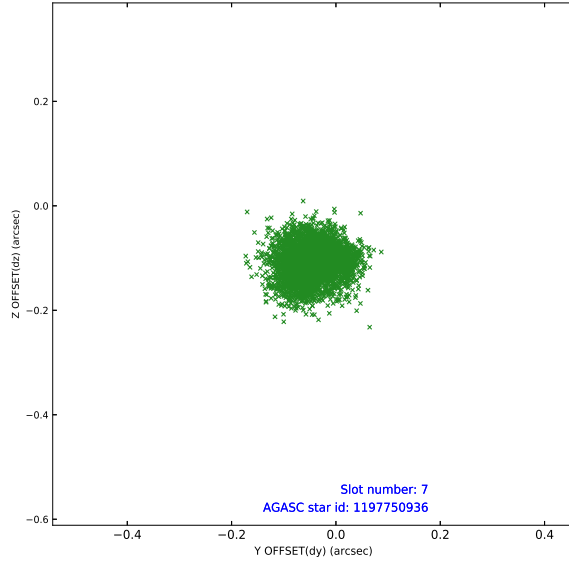
2.4.3 Slot 5



2.4.4 Slot 6

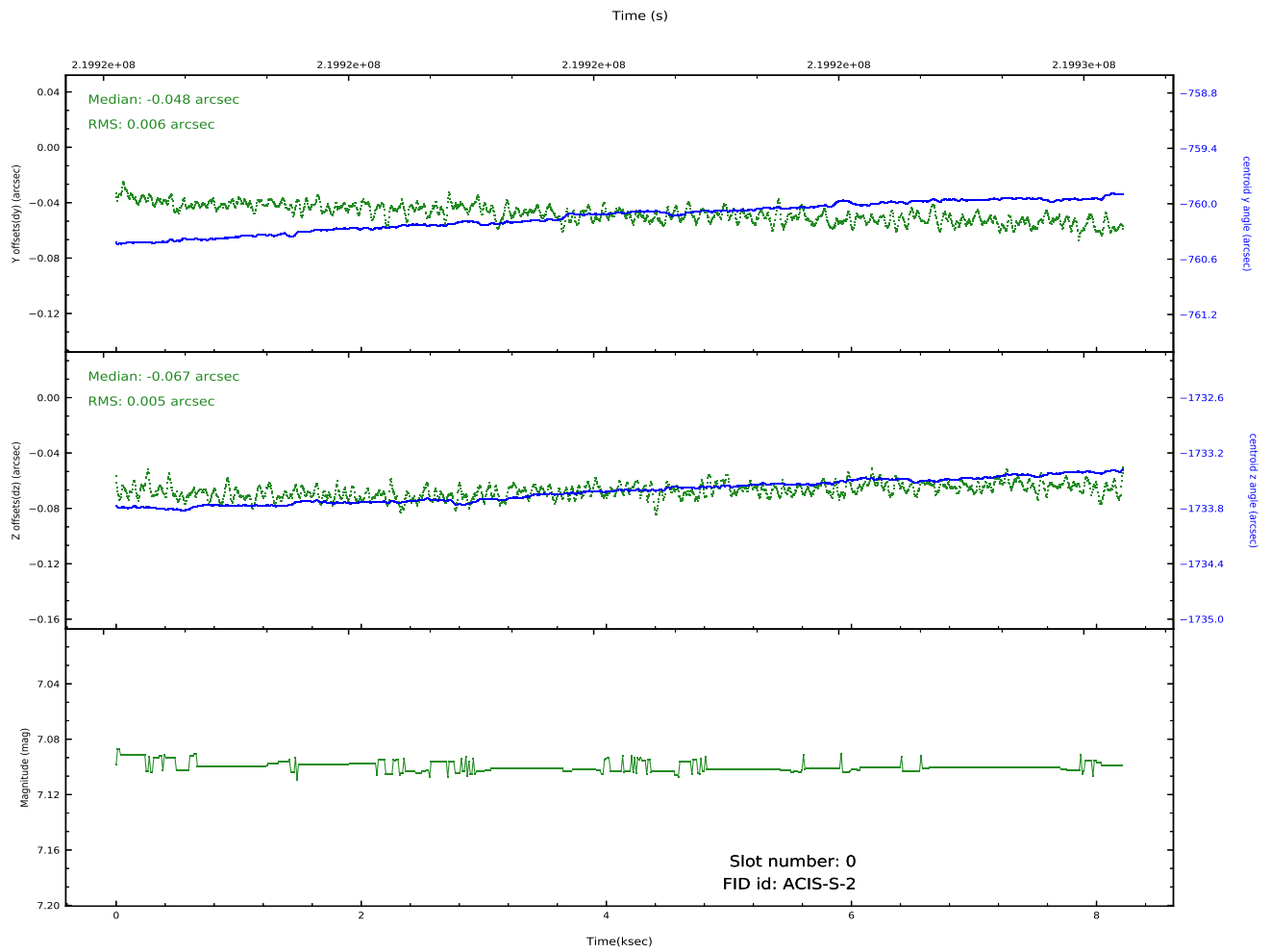
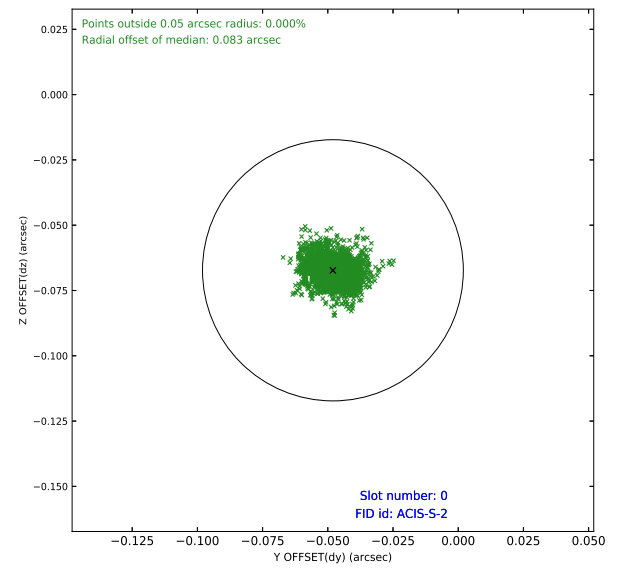
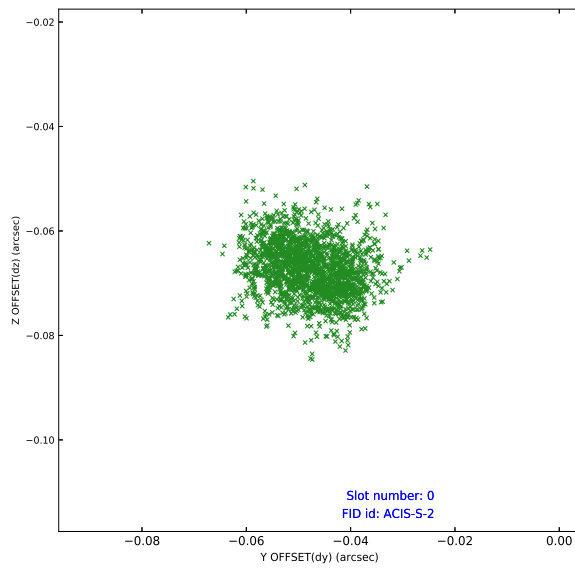


2.4.5 Slot 7

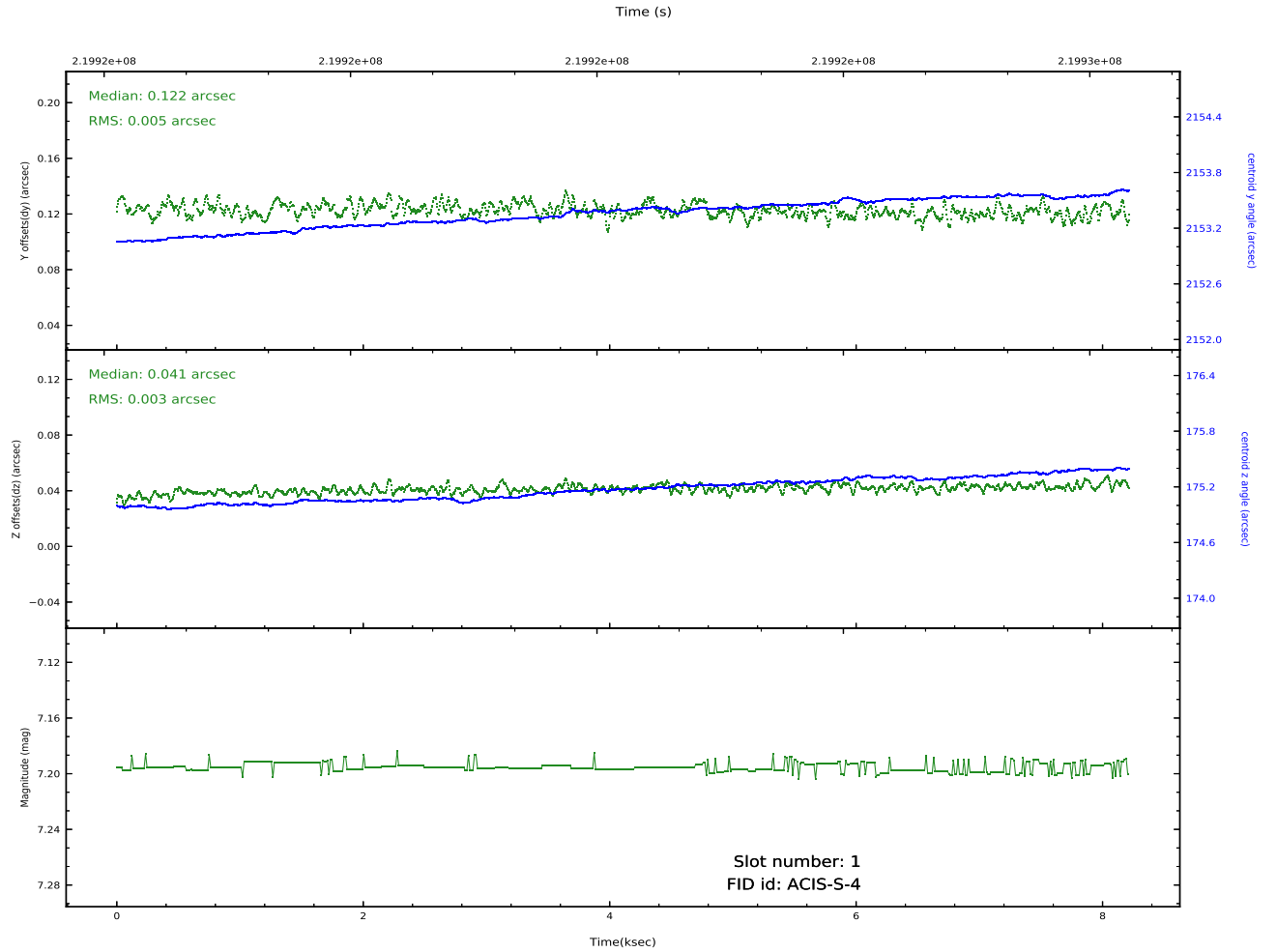
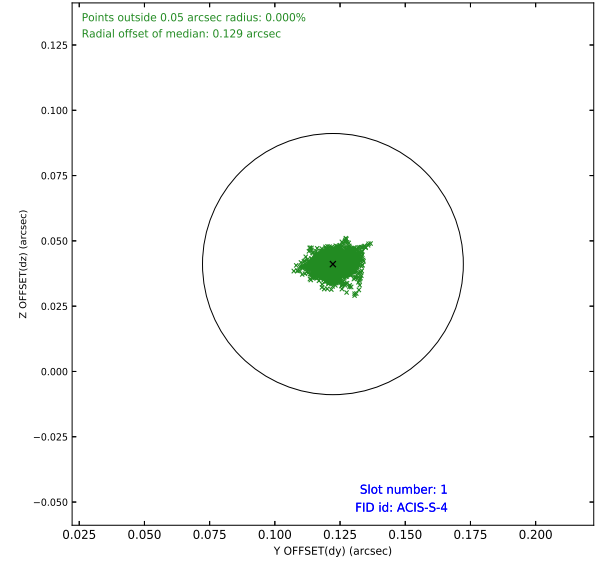
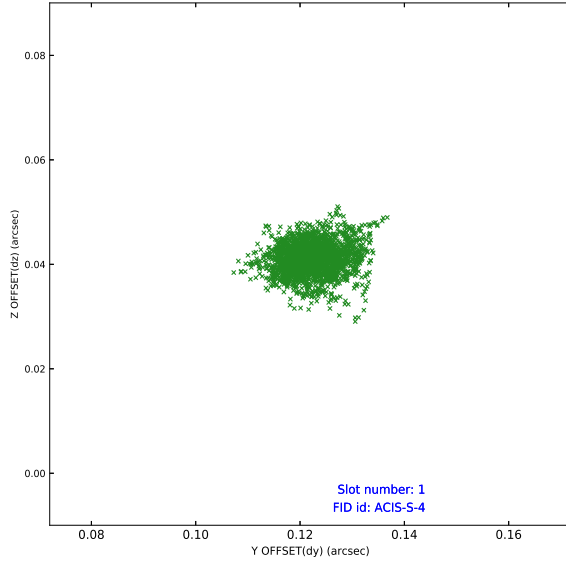


2.5 FID Slots

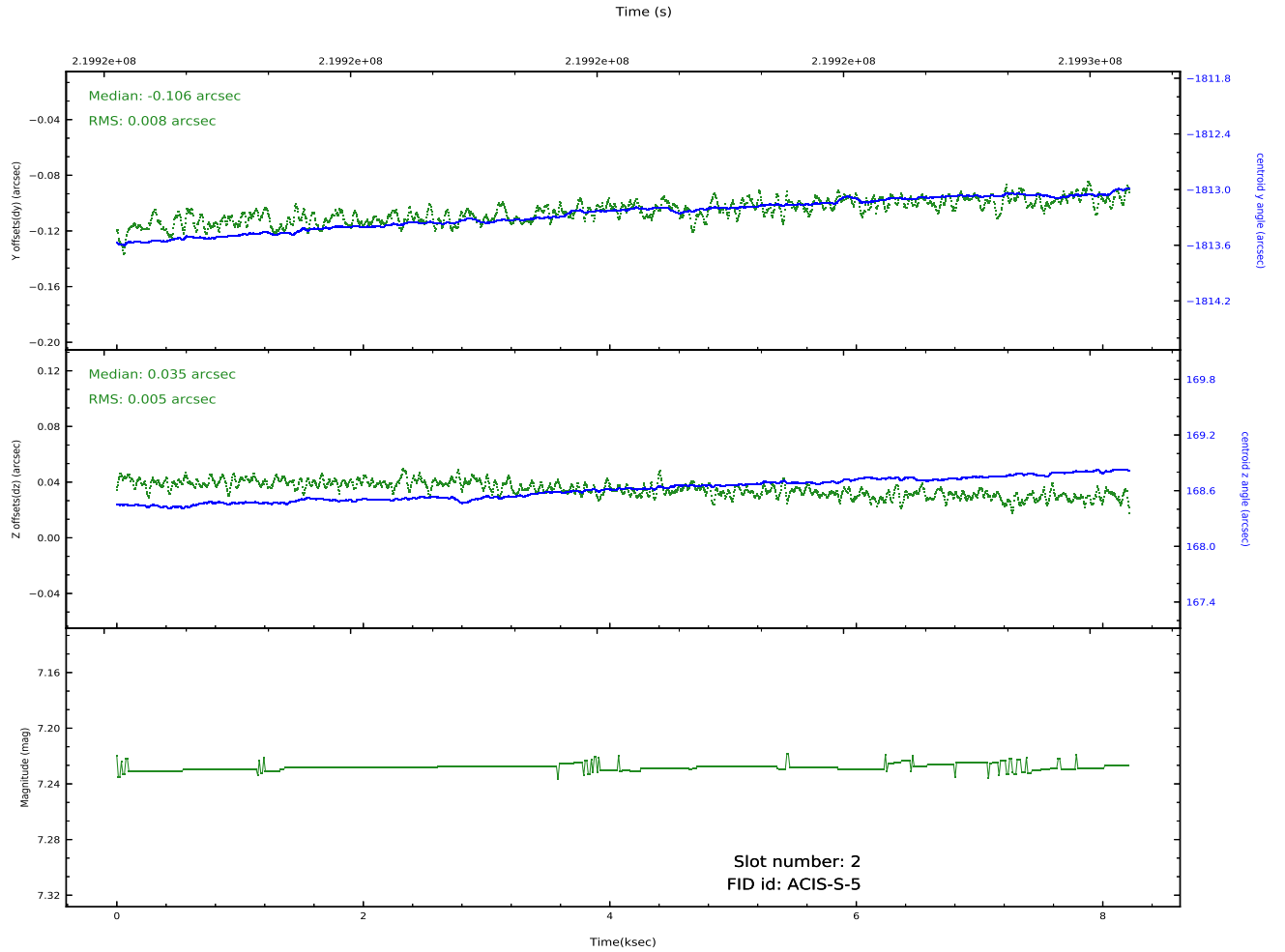
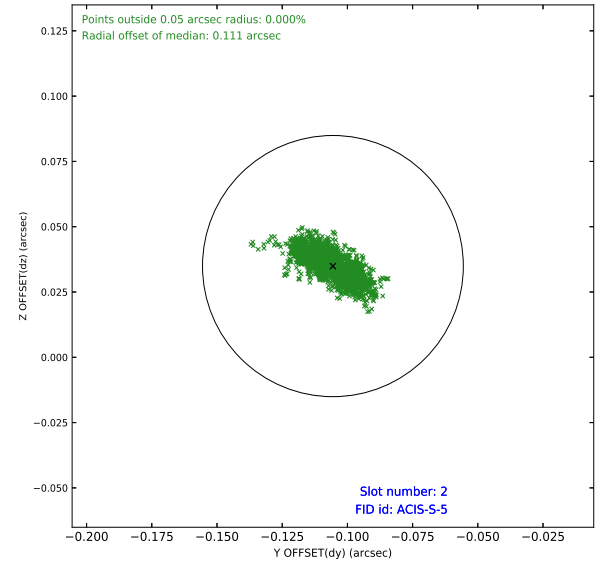
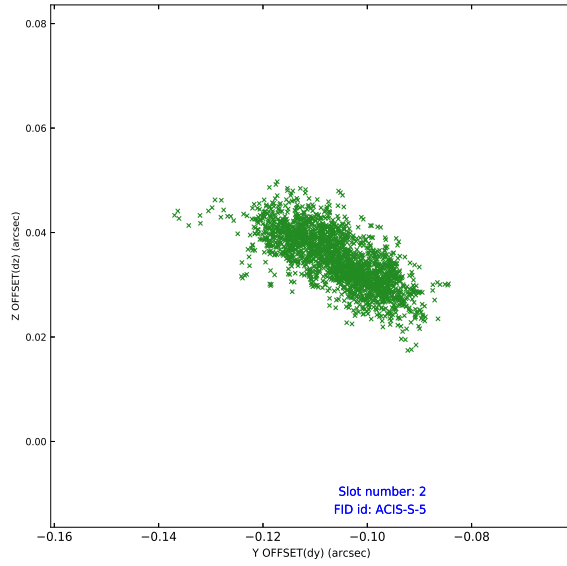
2.5.1 Slot 0



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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.955199

A.2 Comments

Window constraint satisfied.