

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5299 - L2 Version 4
Chandra X-Ray Center

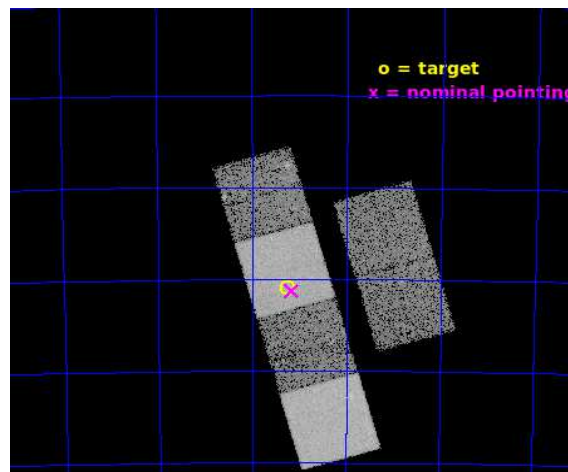
L2 Processing Date : Sep 23 2020

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1 Front

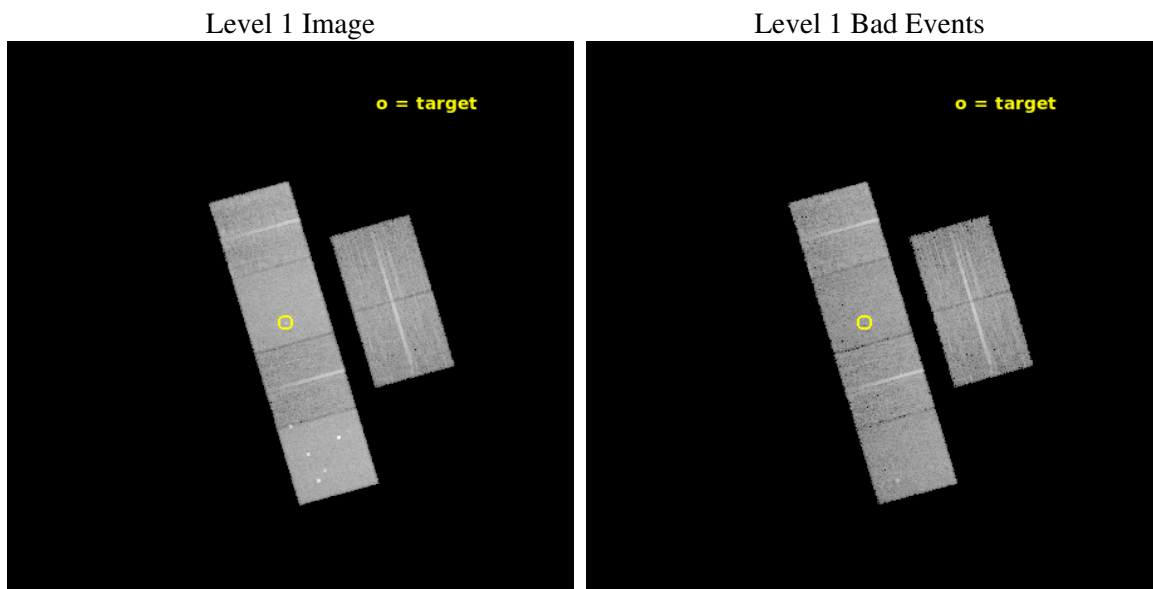
seq_num	300123	Sequence number
obs_id	5299	Observation id
title	A Uniform Study of Globular Cluster X-ray Sources: The Keys to Cluster Dynamical Evolution	Proposal title
observer	Prof. Walter Lewin	Principal investigator
object	NGC 362	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.809583	Observer's specified target RA [deg]
dec_targ	-70.848333	Observer's specified target Dec [deg]
ra_nom	15.789753044468	Nominal RA [deg]
dec_nom	-70.854327401754	Nominal Dec [deg]
roll_nom	253.96302761729	Nominal Roll [deg]
revision	4	Processing version of data
ontime	13139.199951053	Sum of GTIs [s]
livetime	12972.823489796	Livetime [s]
ontime2	13139.199951053	Sum of GTIs [s]
ontime3	13139.199951053	Sum of GTIs [s]
ontime5	13139.199951053	Sum of GTIs [s]
ontime6	13139.199951053	Sum of GTIs [s]
ontime7	13139.199951053	Sum of GTIs [s]
ontime8	13139.199951053	Sum of GTIs [s]
l2events	132231	Number of level 2 events



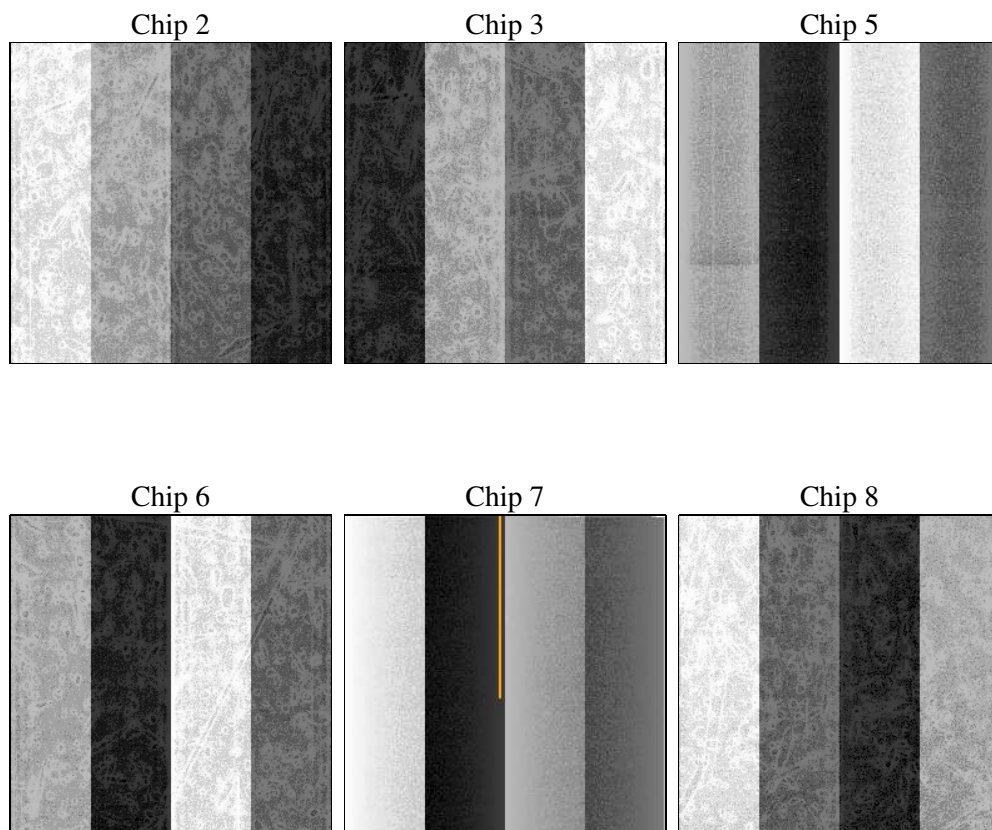
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	13139.199951053	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	13139.199951053	Sum of GTIs [s]
date	2020-09-23T15:45:08	Date and time of file creation	ontime3	13139.199951053	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	13139.199951053	Sum of GTIs [s]
			ontime6	13139.199951053	Sum of GTIs [s]
			ontime7	13139.199951053	Sum of GTIs [s]
			ontime8	13139.199951053	Sum of GTIs [s]
			l1events	629857	Number of level 1 events

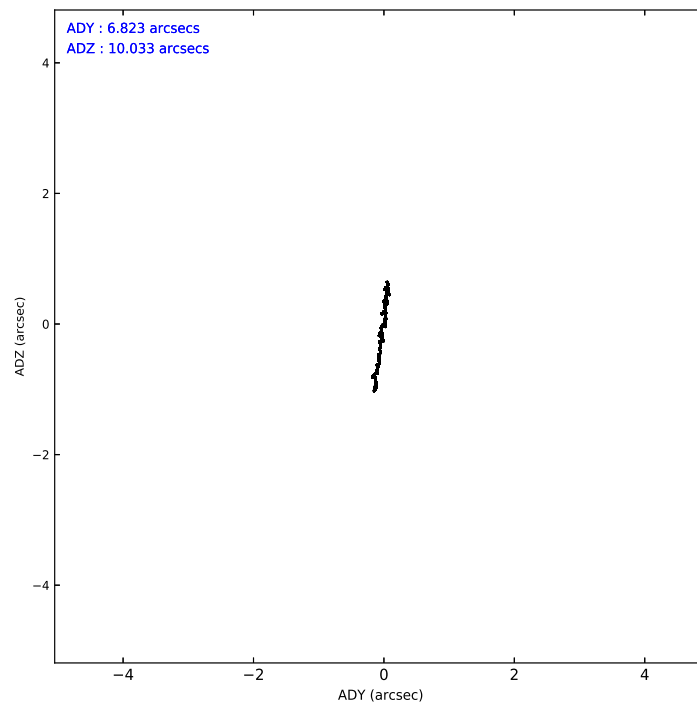
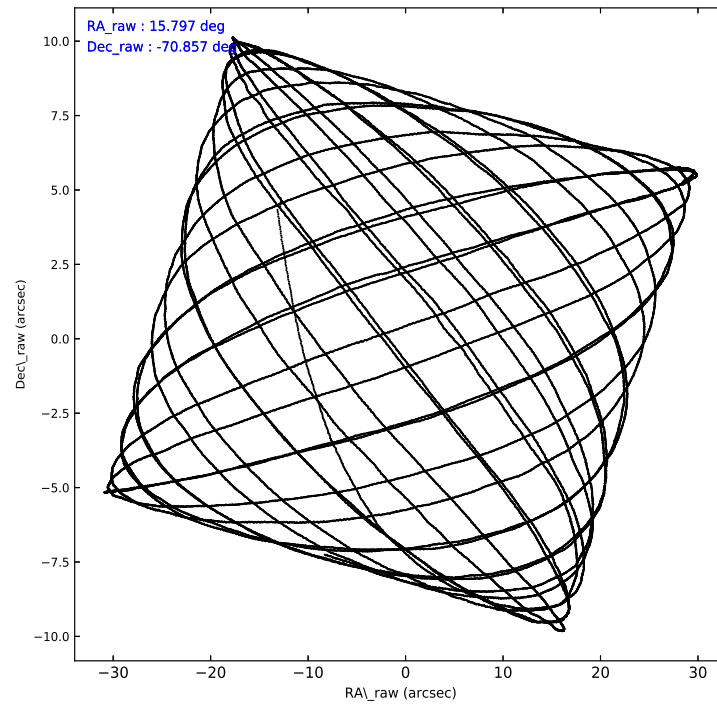
2.1.4 Events

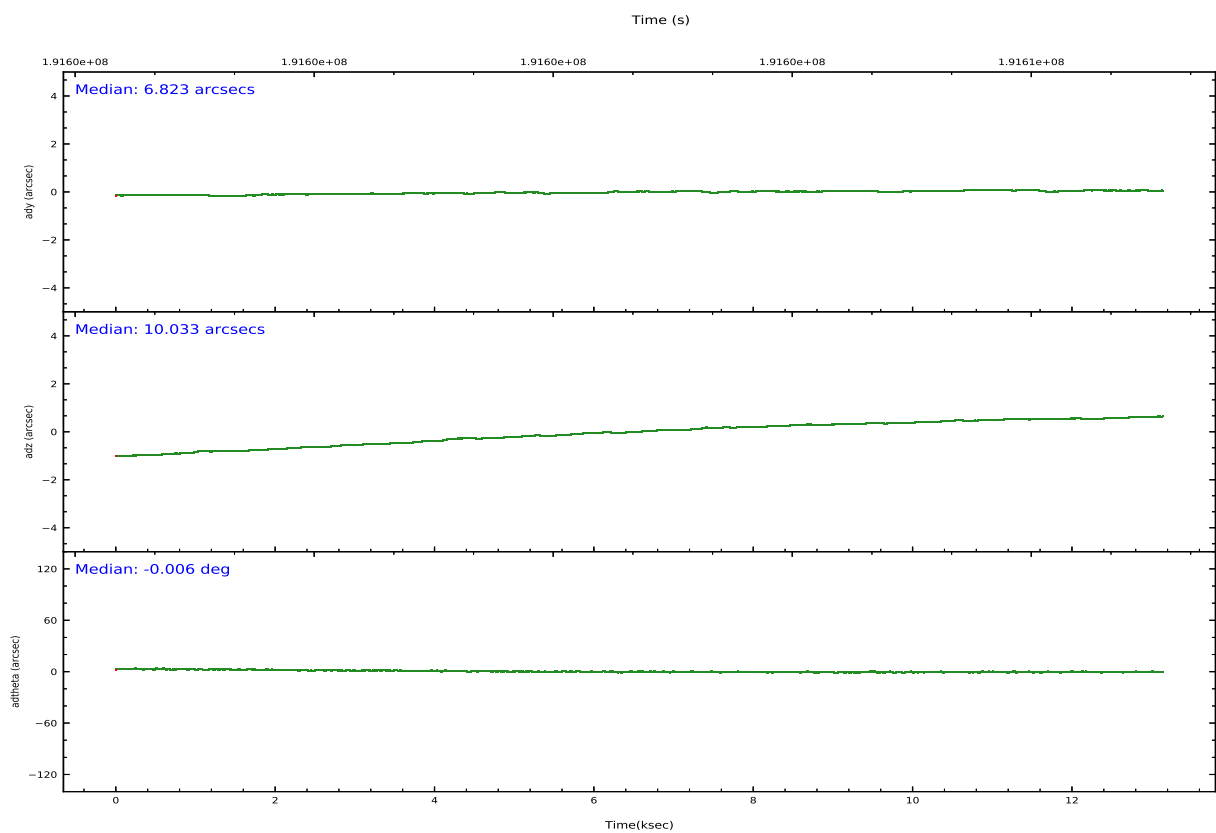
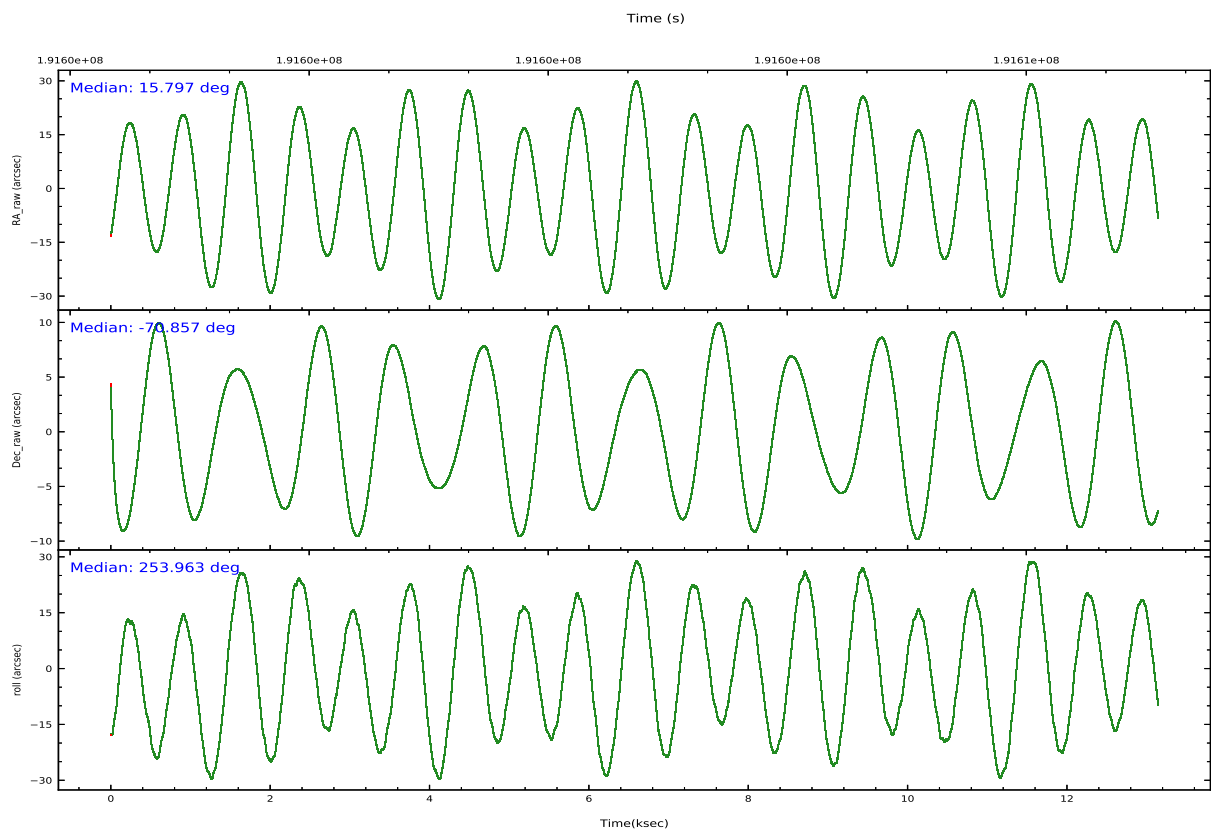
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	85250	83757	141202	86564	124464	108620	grade 0 events	4838	4512	12084	4571	5243	7890
rejected events	75872	74735	80669	76914	77709	88347		5%	5%	8%	5%	4%	7%
rejected %	88%	89%	57%	88%	62%	81%	grade 1 events	42	46	453	63	119	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	2124	1987	18636	2277	10605	4830
								2%	2%	13%	2%	8%	4%
							grade 3 events	958	999	2799	1041	4798	2376
								1%	1%	1%	1%	3%	2%
							grade 4 events	970	1030	2703	995	4797	2270
								1%	1%	1%	1%	3%	2%
							grade 5 events	3586	3892	9972	4115	11439	5133
								4%	4%	7%	4%	9%	4%
							grade 6 events	1752	1753	33329	2114	28214	5554
								2%	2%	23%	2%	22%	5%
							grade 7 events	70980	69538	61226	71388	59249	80500
								83%	83%	43%	82%	47%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.775492	15.789753044468	Subarray requested	NONE	NONE
[deg] Pointing Dec	-70.830691	-70.85432740175401	Alternating exposures requested	N	N
[deg] Pointing Roll	253.789794	253.96302761729	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	191596656.184000	191594692.86034			
Observation start date	2004-01-27T13:16:32	2004-01-27T12:44:52			
[s] Observation end time (MET)	191609656.184000	191610406.11103			
Observation end date	2004-01-27T16:53:12	2004-01-27T17:06:46			
Read mode	TIMED	TIMED			

2.3 Aspect



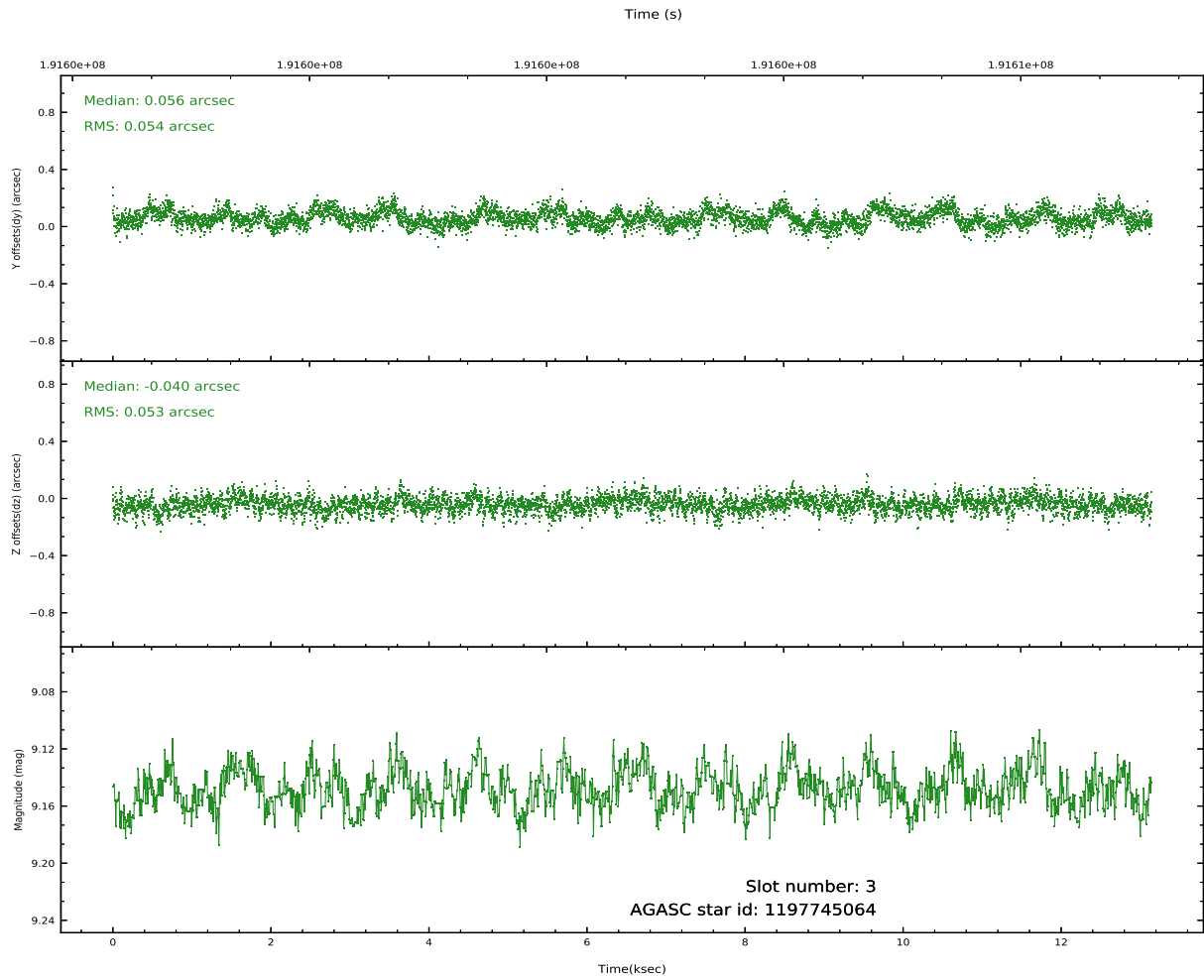
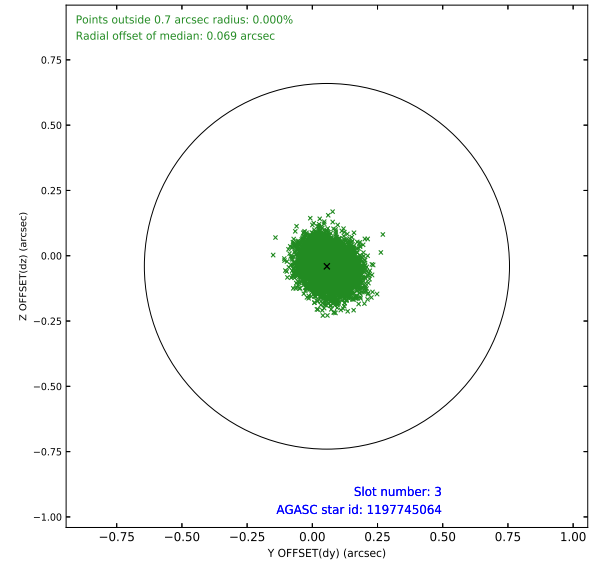
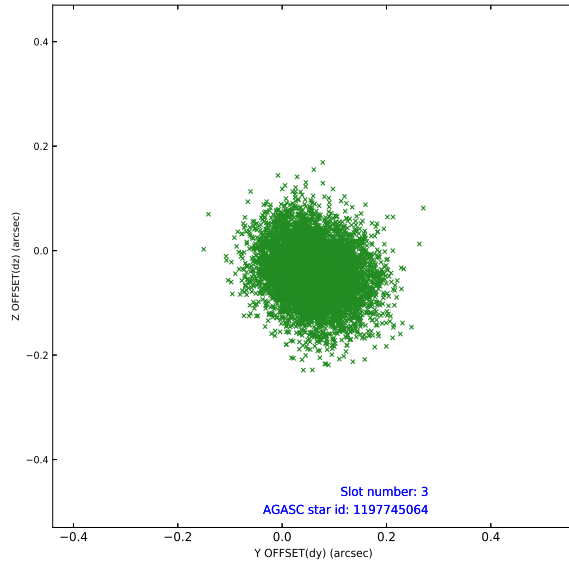


Slot Statistics

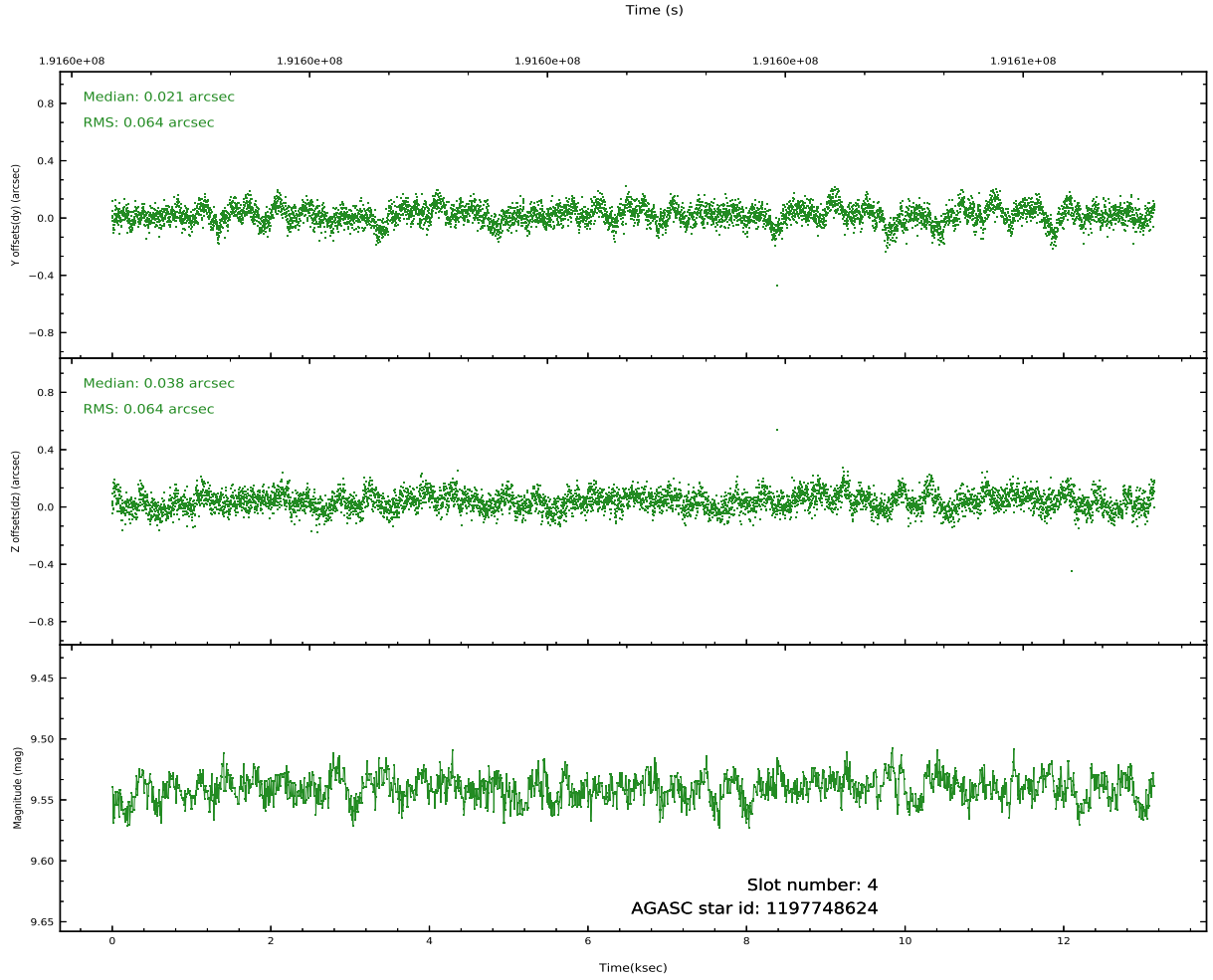
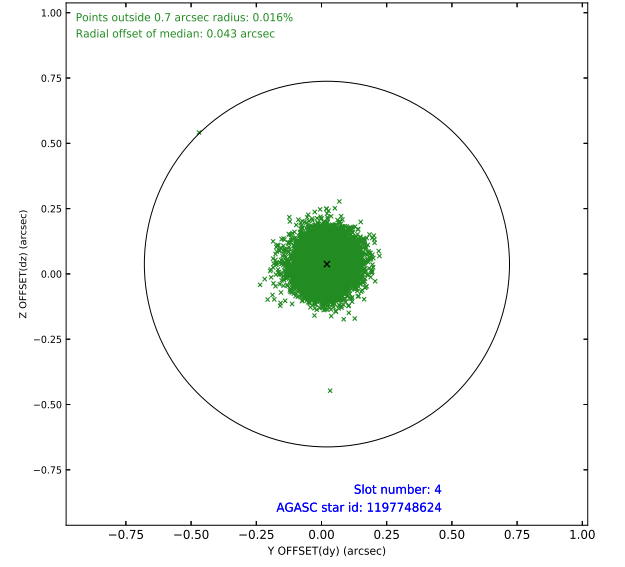
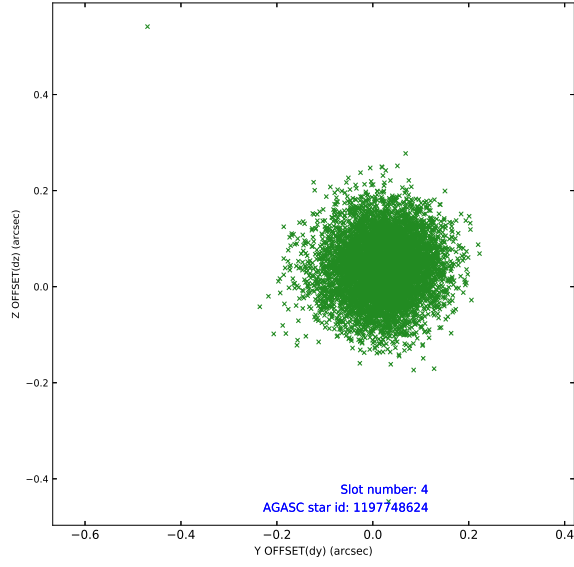
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	3207	1.000	-0.079	-0.055	0.012	0.021	0.000000	0.000000	-759.57	-1731
1	FID		ACIS-S-4	7.20	3207	1.000	0.130	0.053	0.007	0.013	0.000000	0.000000	2153.69	177
2	FID		ACIS-S-5	7.23	3206	1.000	-0.081	0.010	0.013	0.026	0.000000	0.000000	-1812.00	170
3	GUIDE	used	1197745064	9.15	6413	1.000	0.056	-0.040	0.081	0.131	14.488483	-70.869346	573.66	-1414
4	GUIDE	used	1197748624	9.54	6410	1.000	0.021	0.038	0.096	0.154	14.991477	-70.268725	-1670.30	-1478
5	GUIDE	used	1197874240	9.41	6409	1.000	0.059	0.031	0.082	0.131	17.264679	-70.473371	-1714.64	1367
6	GUIDE	used	1197875368	8.17	6412	1.000	-0.048	0.018	0.069	0.103	17.140782	-70.666831	-1003.43	1403
7	GUIDE	used	1197877312	7.92	6411	1.000	-0.085	-0.046	0.075	0.119	16.362782	-70.933298	164.94	767

2.4 Star Slots

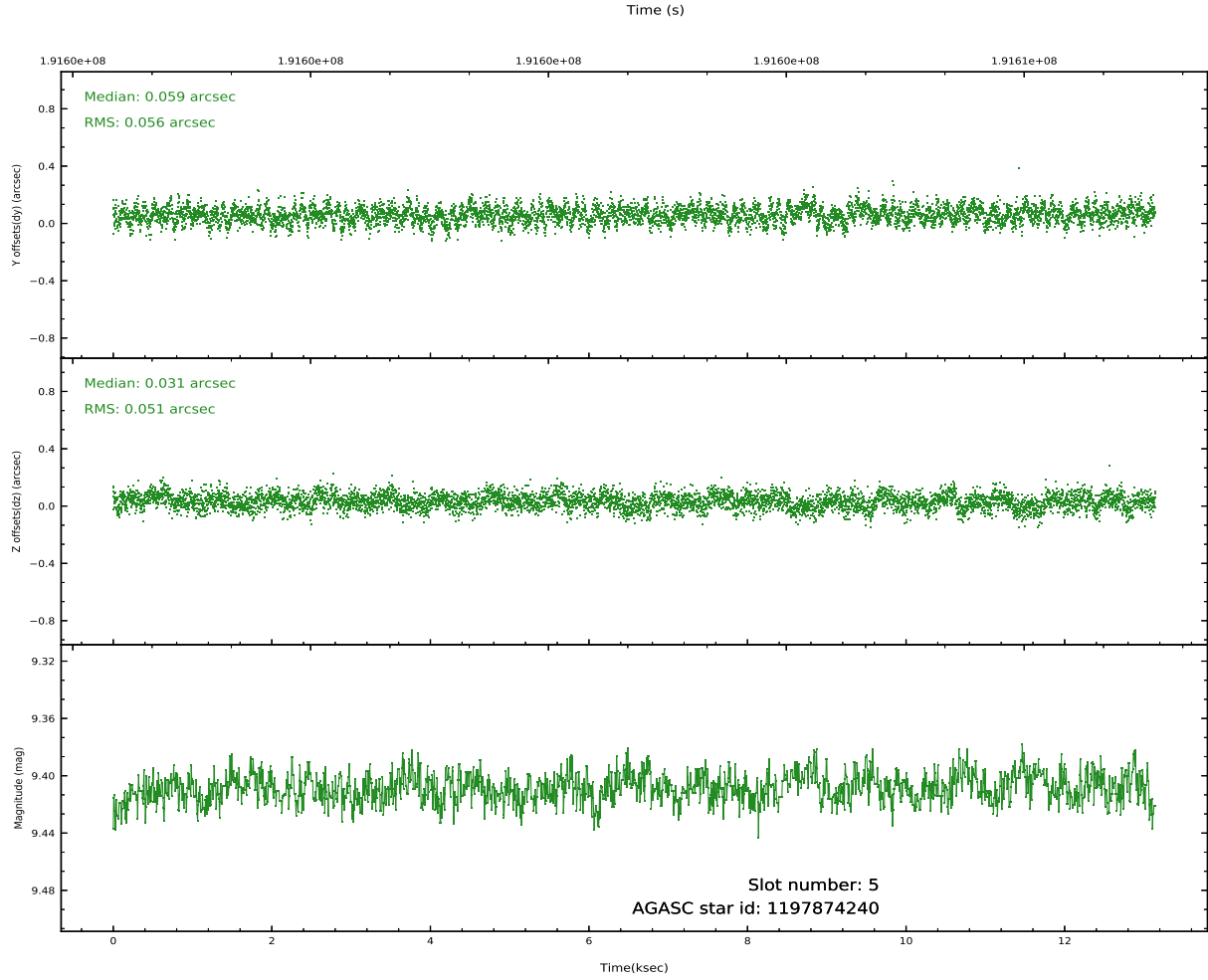
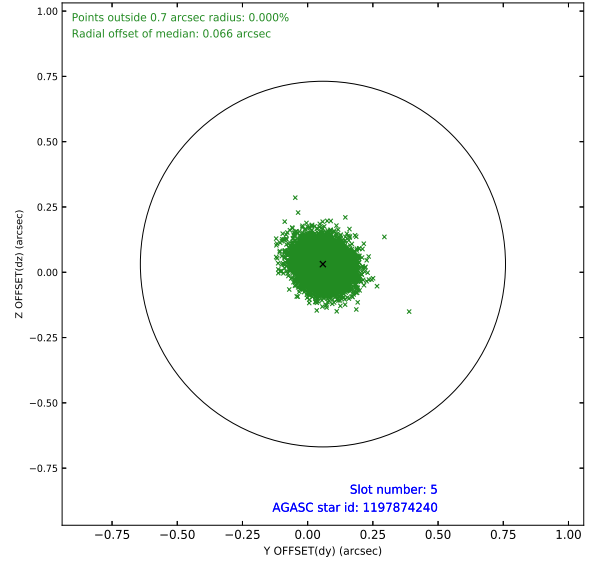
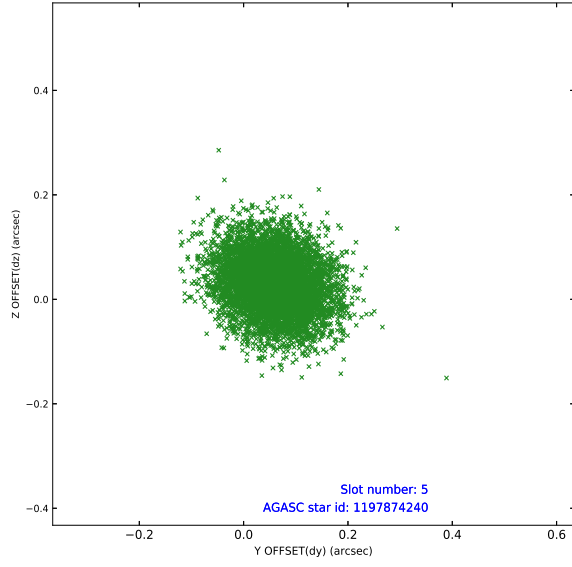
2.4.1 Slot 3



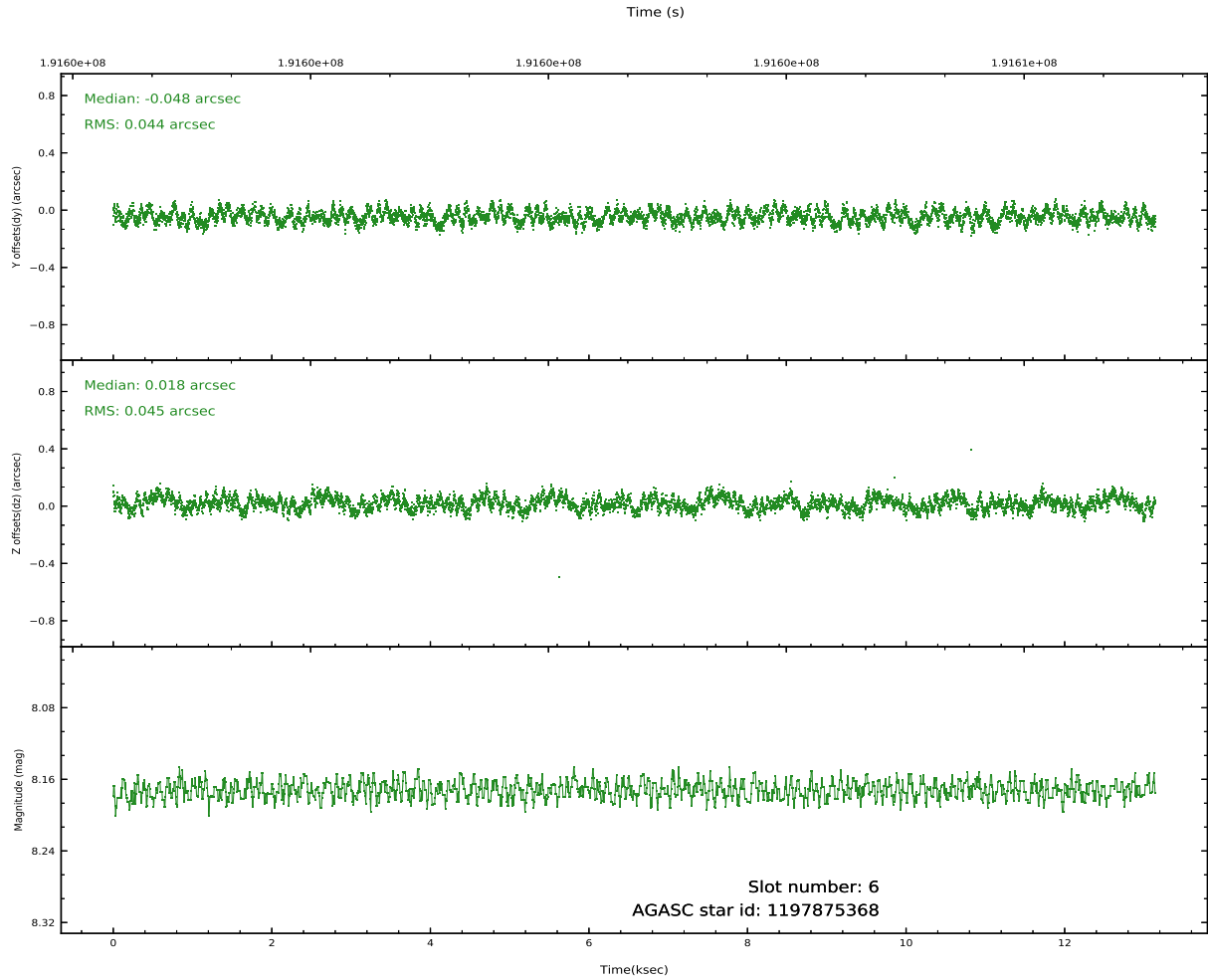
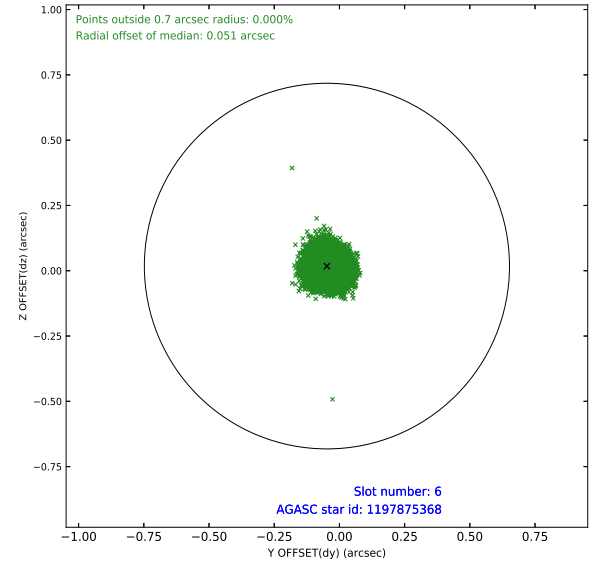
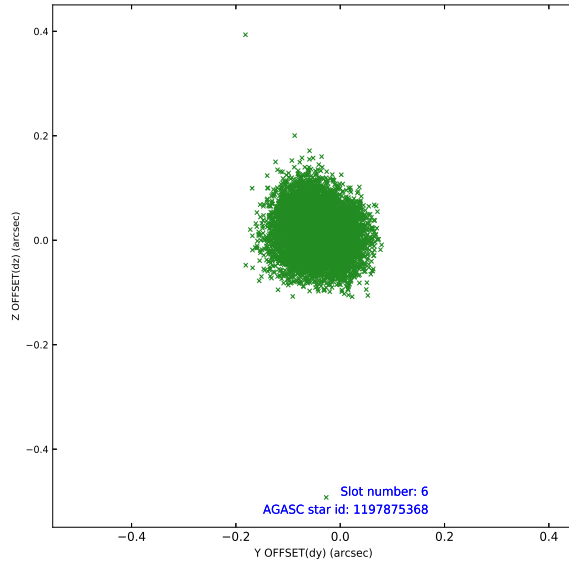
2.4.2 Slot 4



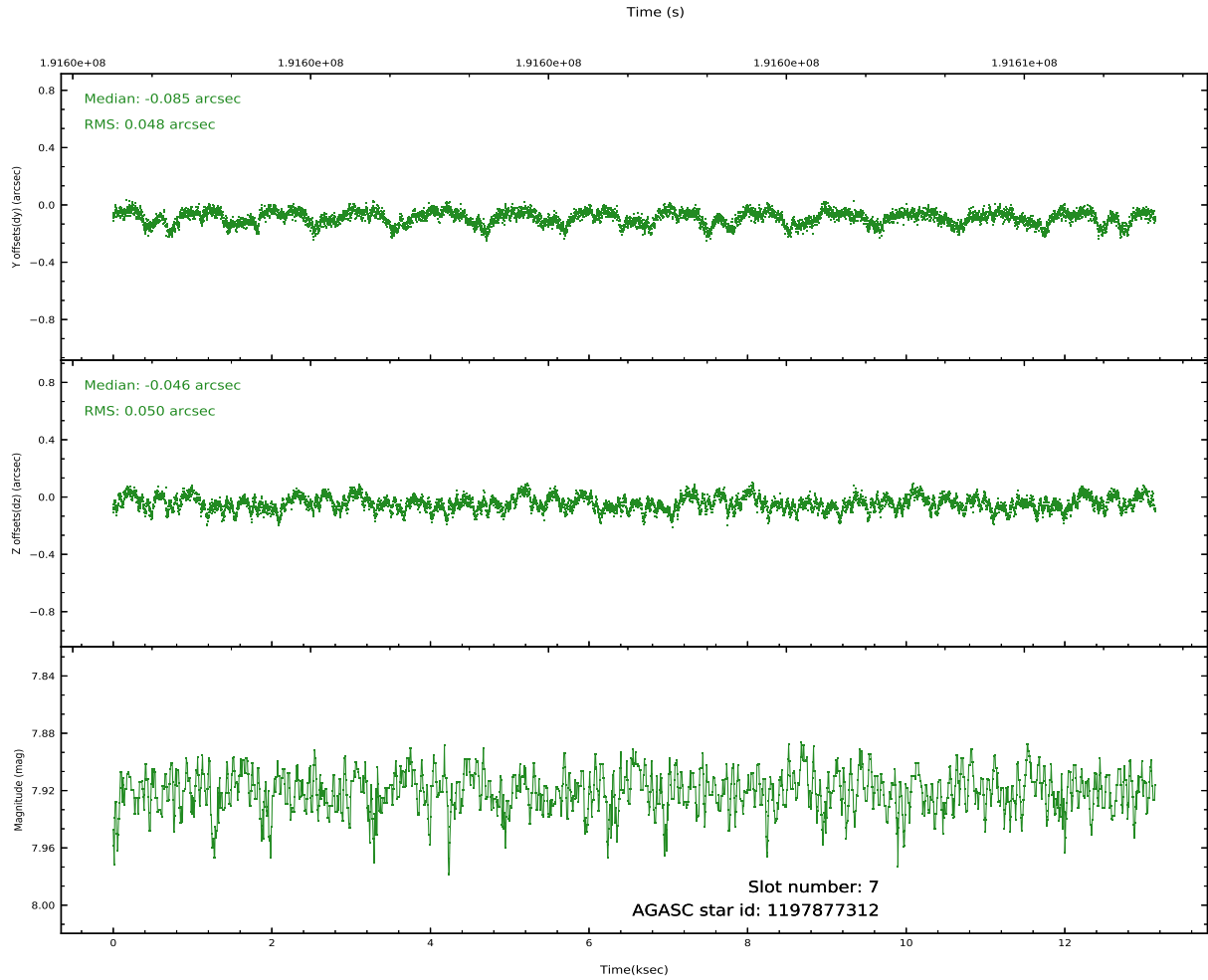
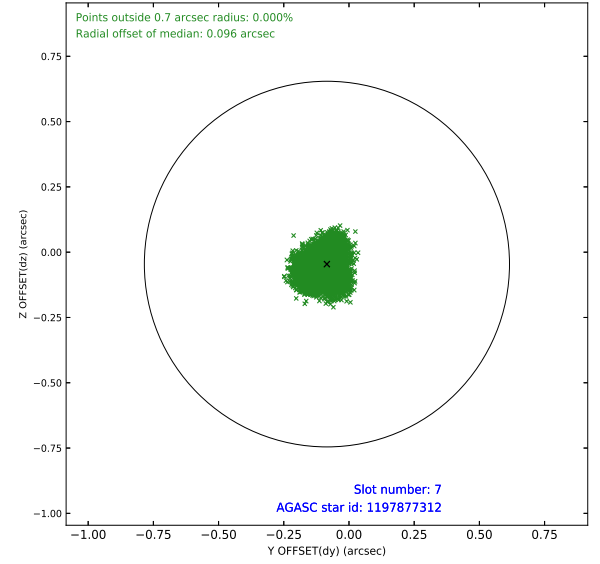
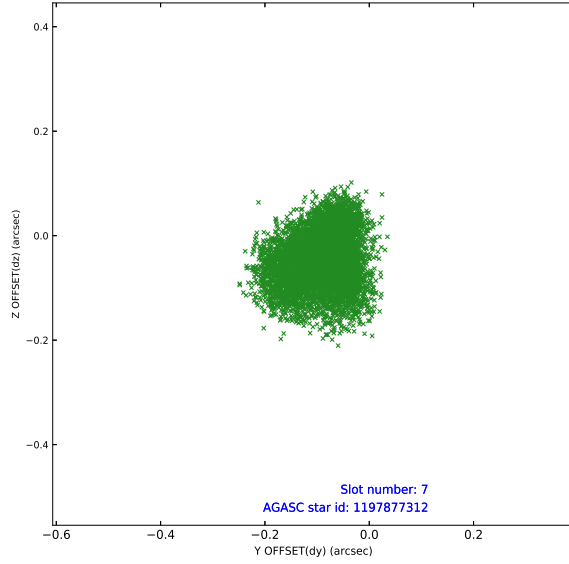
2.4.3 Slot 5



2.4.4 Slot 6

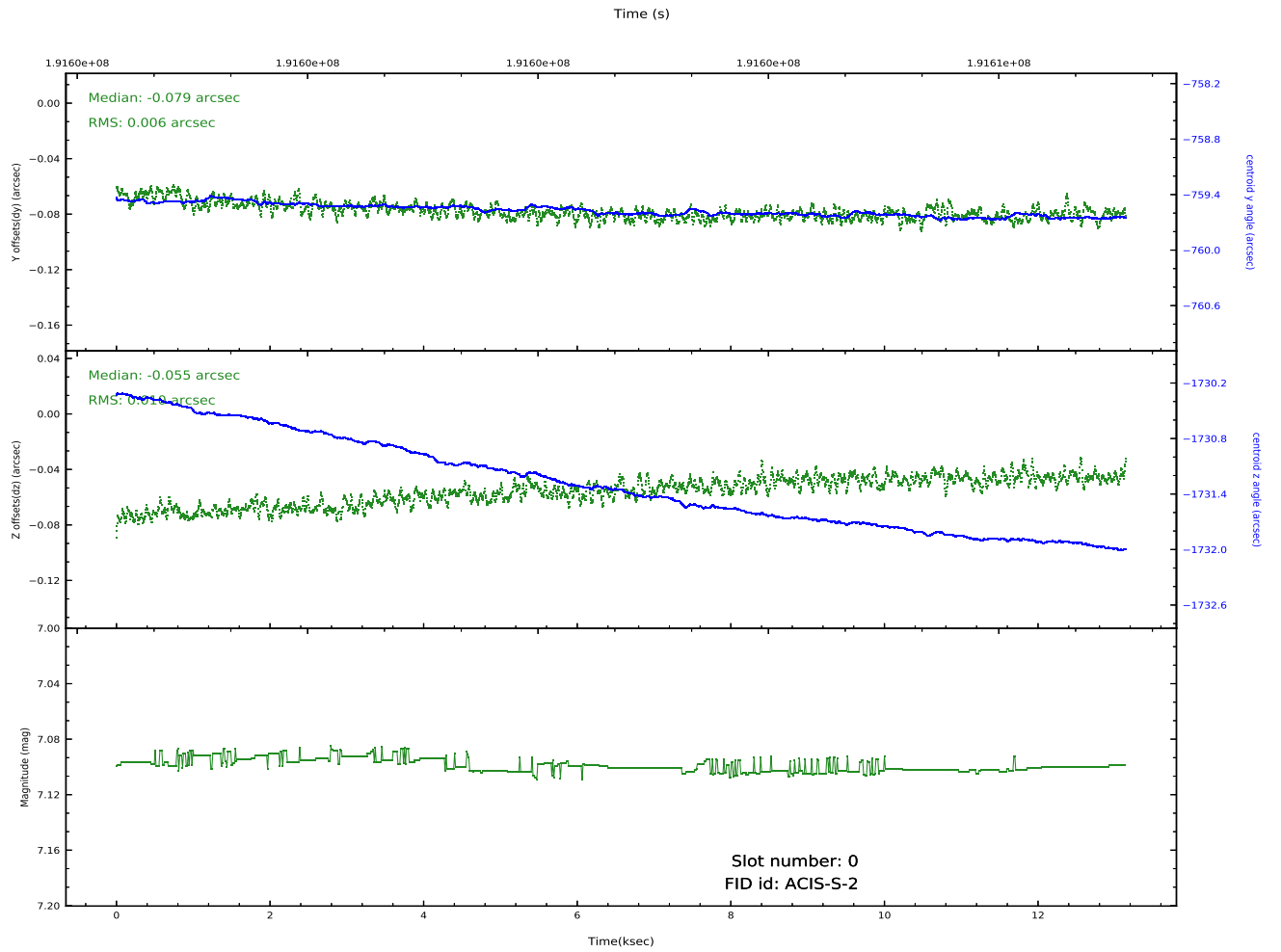
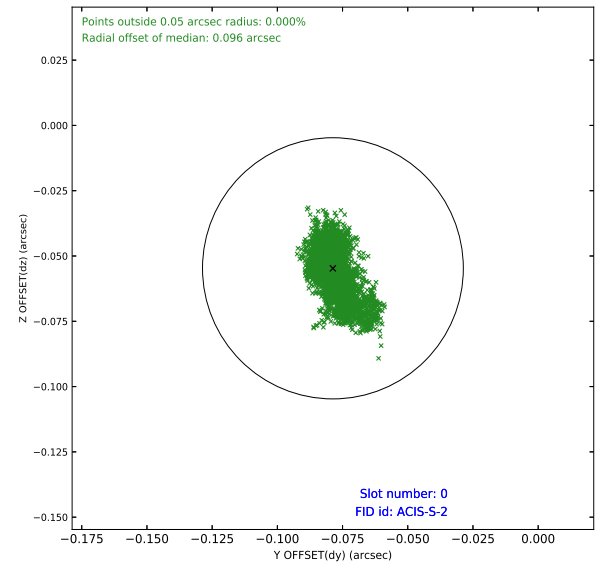
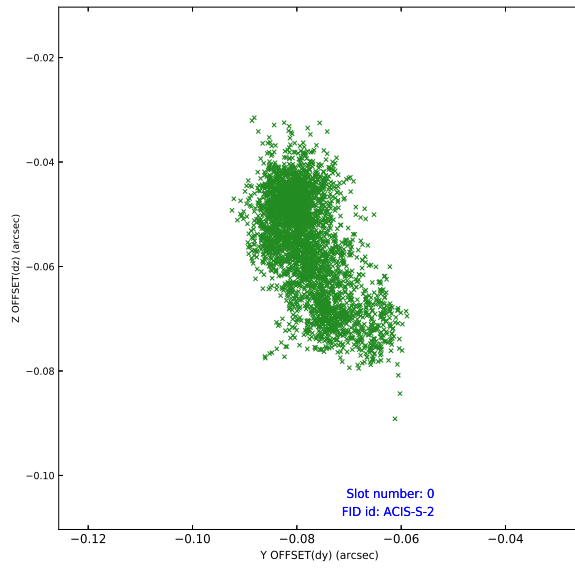


2.4.5 Slot 7

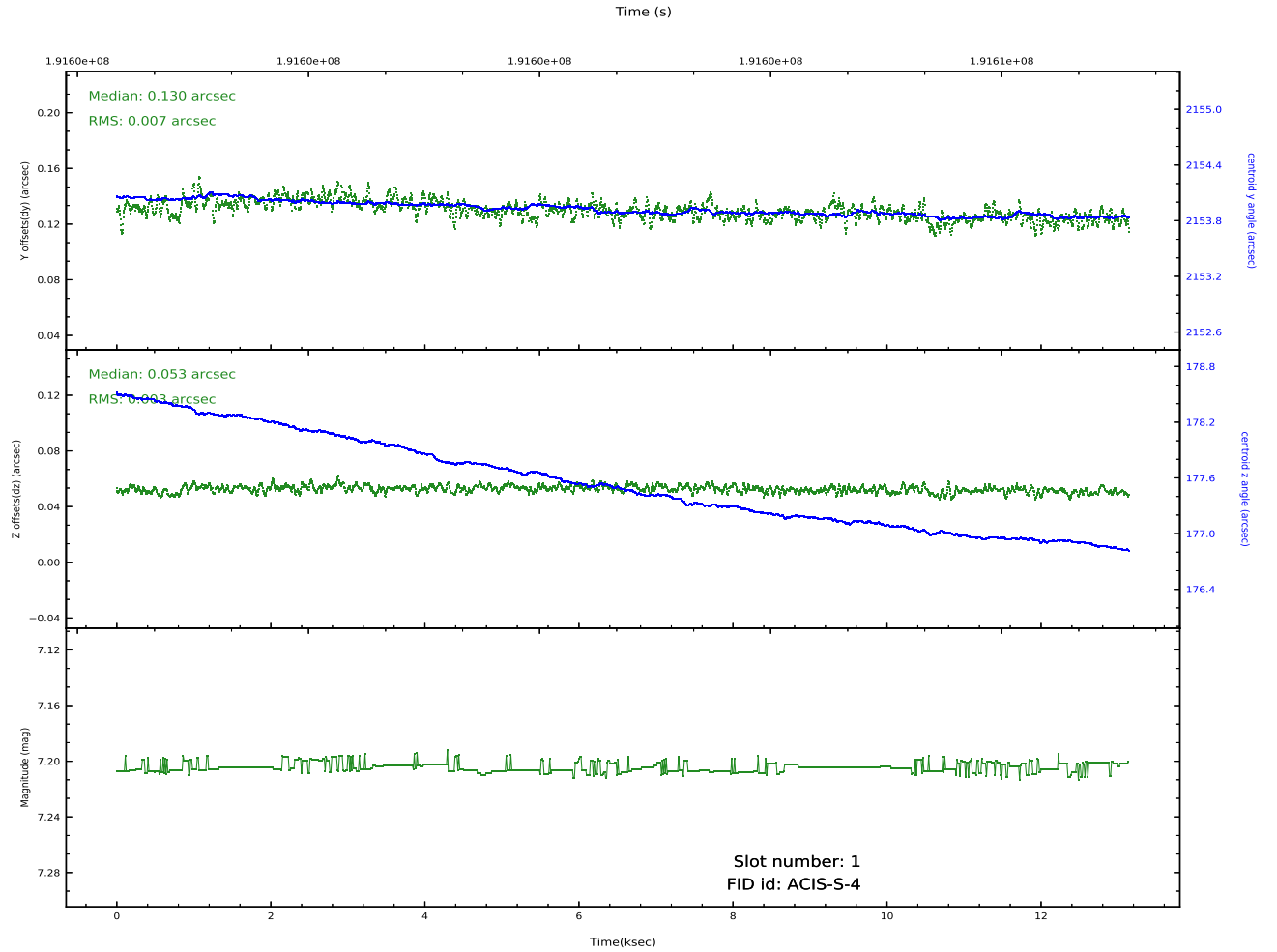
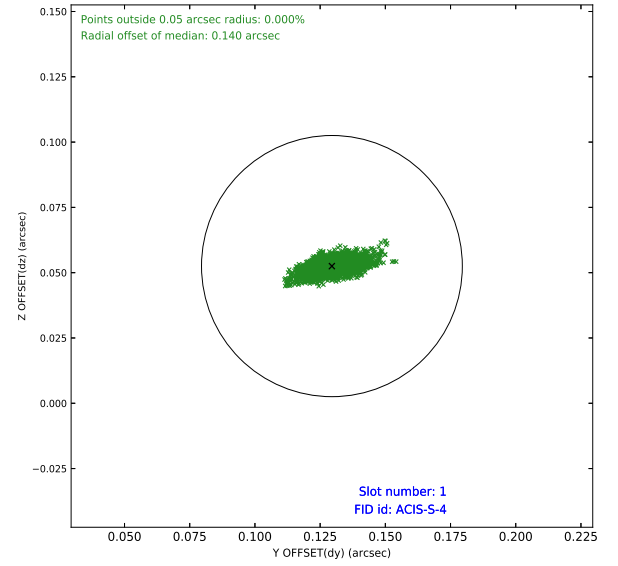
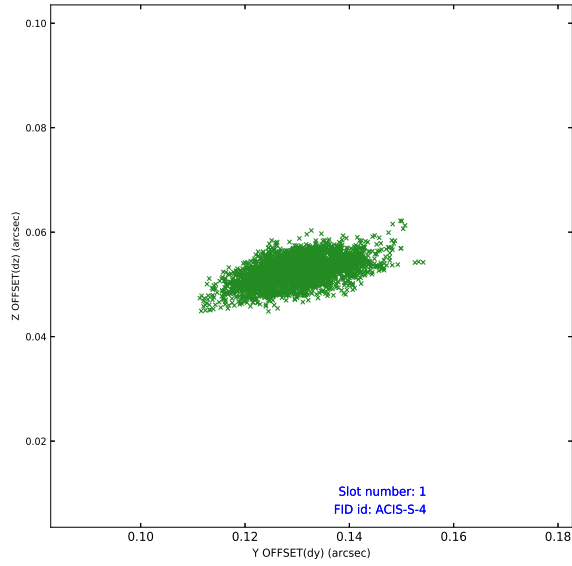


2.5 FID Slots

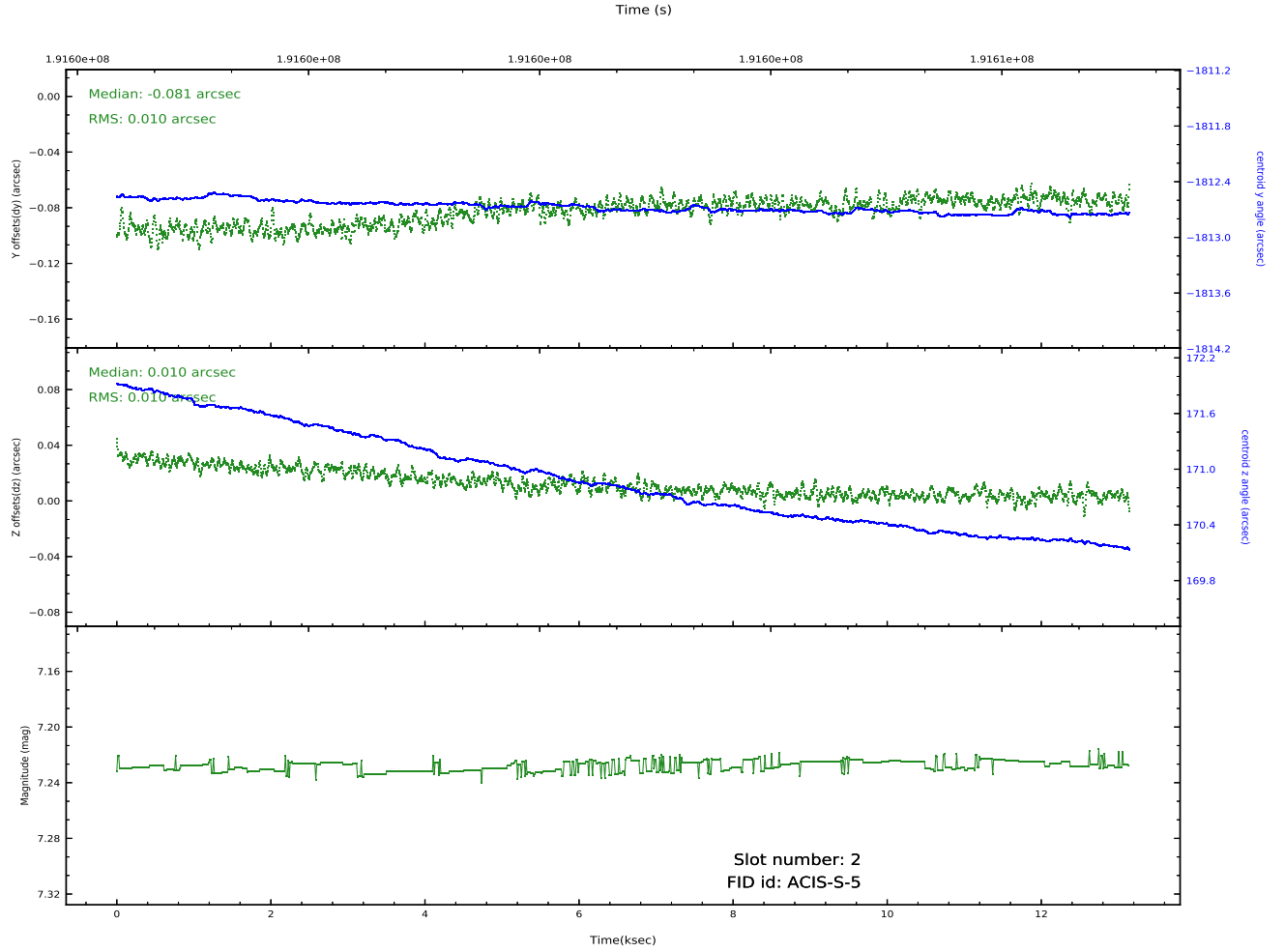
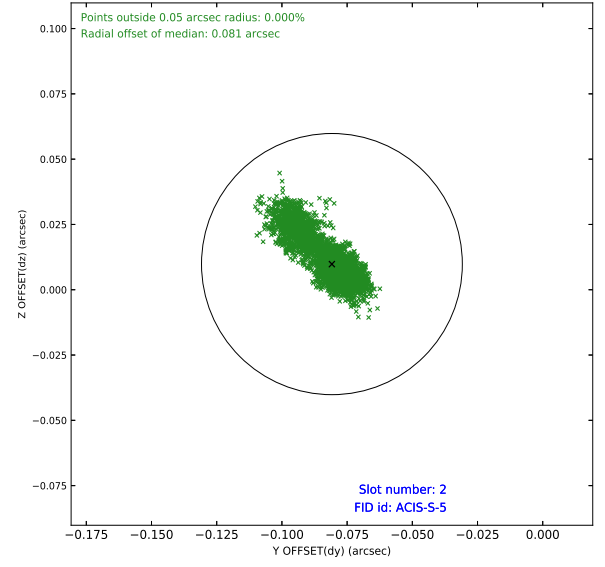
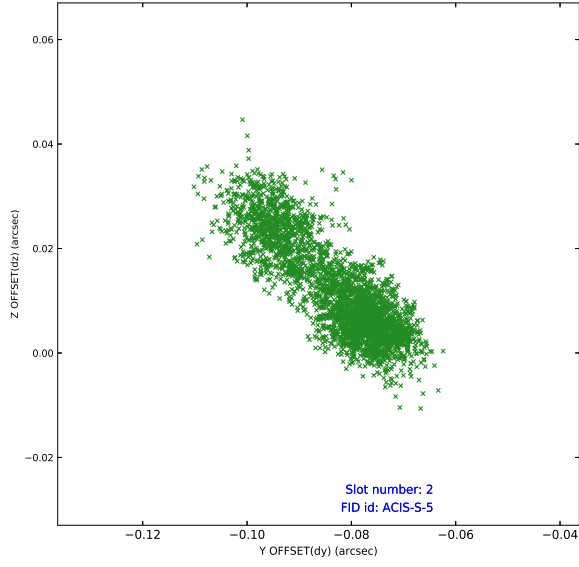
2.5.1 Slot 0



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)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.139

A.2 Comments

Joint proposal with HST.