

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4750 - L2 Version 5
Chandra X-Ray Center

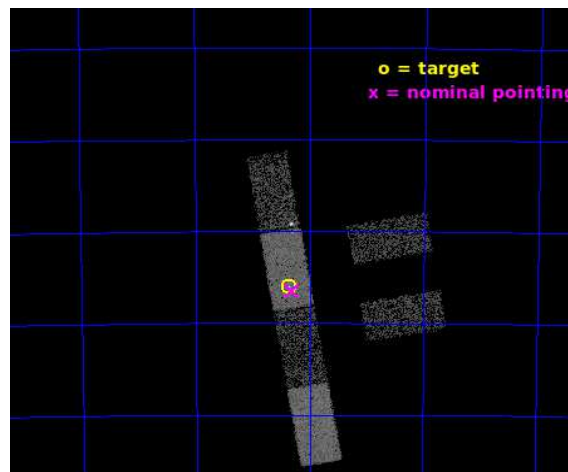
L2 Processing Date : Sep 23 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

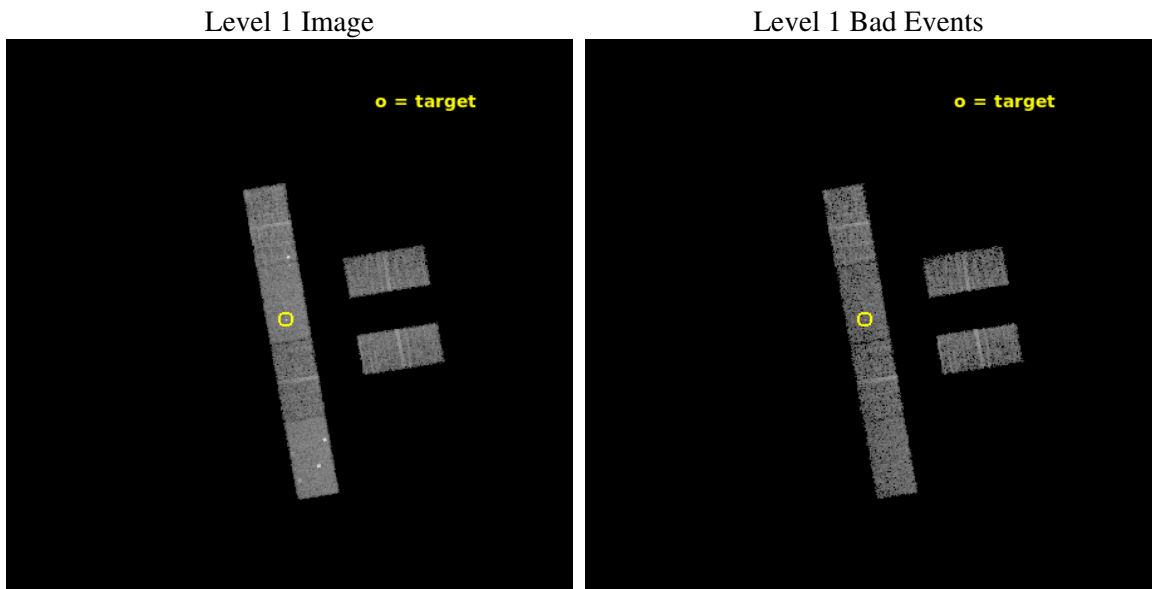
seq_num	600405	Sequence number
obs_id	4750	Observation id
title	Observations of Intermediate Mass Black Hole Candidate Ultra-Luminous X-ray Sources	Proposal title
observer	Jon Miller	Principal investigator
object	NGC 1313 X-2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.592917	Observer's specified target RA [deg]
dec_targ	-66.601028	Observer's specified target Dec [deg]
ra_nom	49.578448470223	Nominal RA [deg]
dec_nom	-66.607931017225	Nominal Dec [deg]
roll_nom	260.3278868215	Nominal Roll [deg]
revision	5	Processing version of data
ontime	4759.2000315189	Sum of GTIs [s]
livetime	4653.1091430573	Livetime [s]
ontime2	4759.2000315189	Sum of GTIs [s]
ontime3	4759.2000315189	Sum of GTIs [s]
ontime5	4759.2000315189	Sum of GTIs [s]
ontime6	4759.2000315189	Sum of GTIs [s]
ontime7	4759.2000315189	Sum of GTIs [s]
ontime8	4759.1696009934	Sum of GTIs [s]
l2events	29890	Number of level 2 events



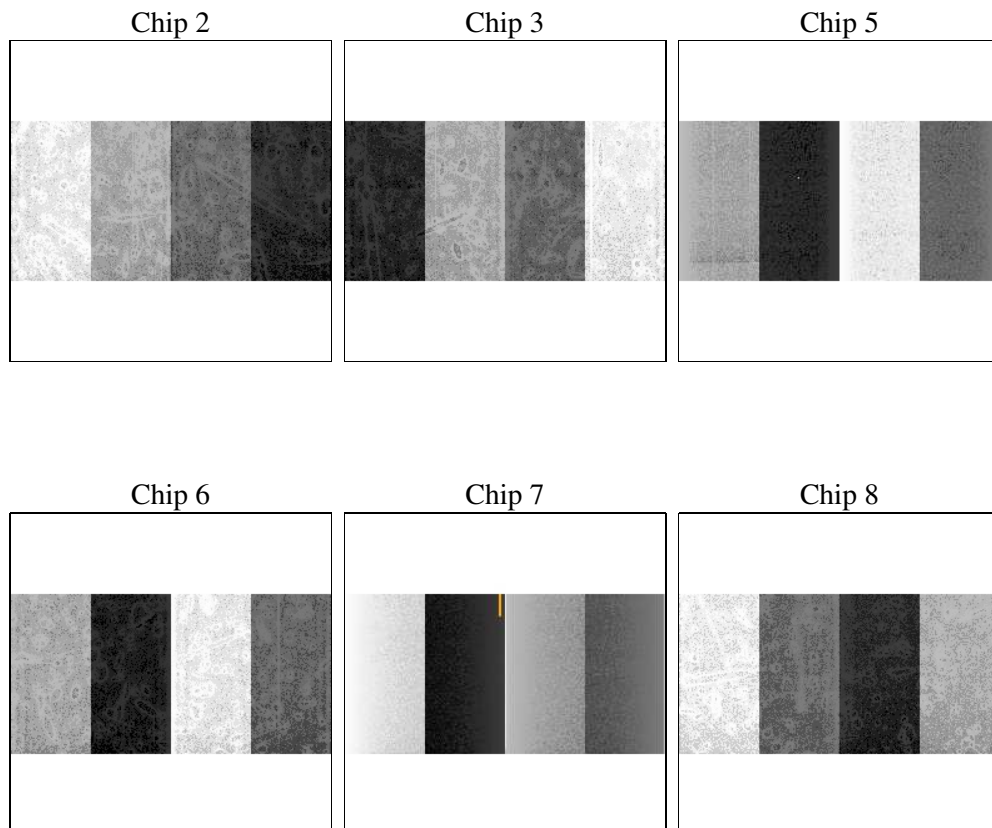
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4759.2000315189	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	4759.2000315189	Sum of GTIs [s]
date	2020-09-24T01:32:37	Date and time of file creation	ontime3	4759.2000315189	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	4759.2000315189	Sum of GTIs [s]
			ontime6	4759.2000315189	Sum of GTIs [s]
			ontime7	4759.2000315189	Sum of GTIs [s]
			ontime8	4759.1696009934	Sum of GTIs [s]
			l1events	127562	Number of level 1 events

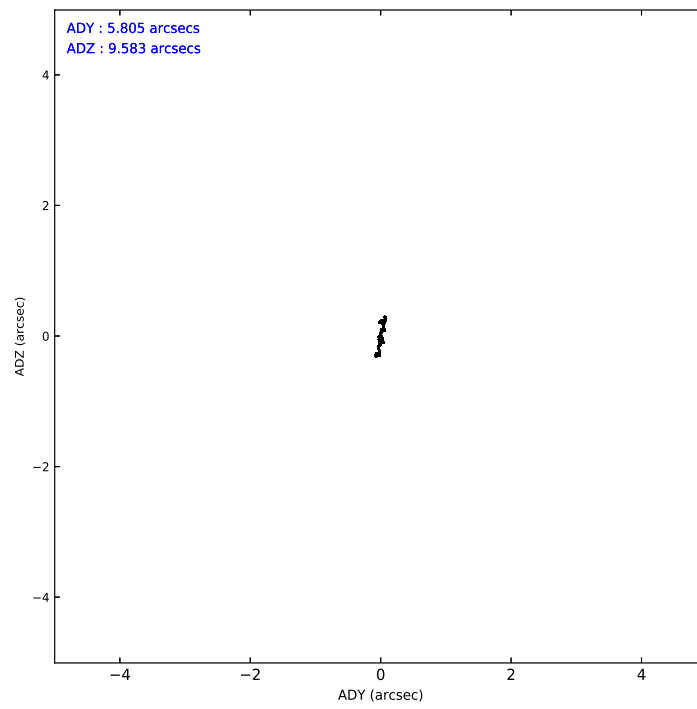
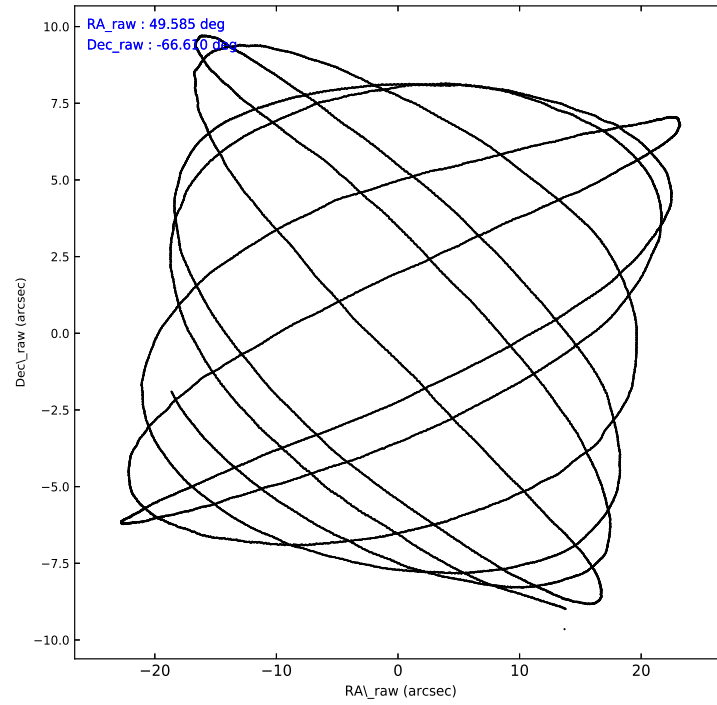
2.1.4 Events

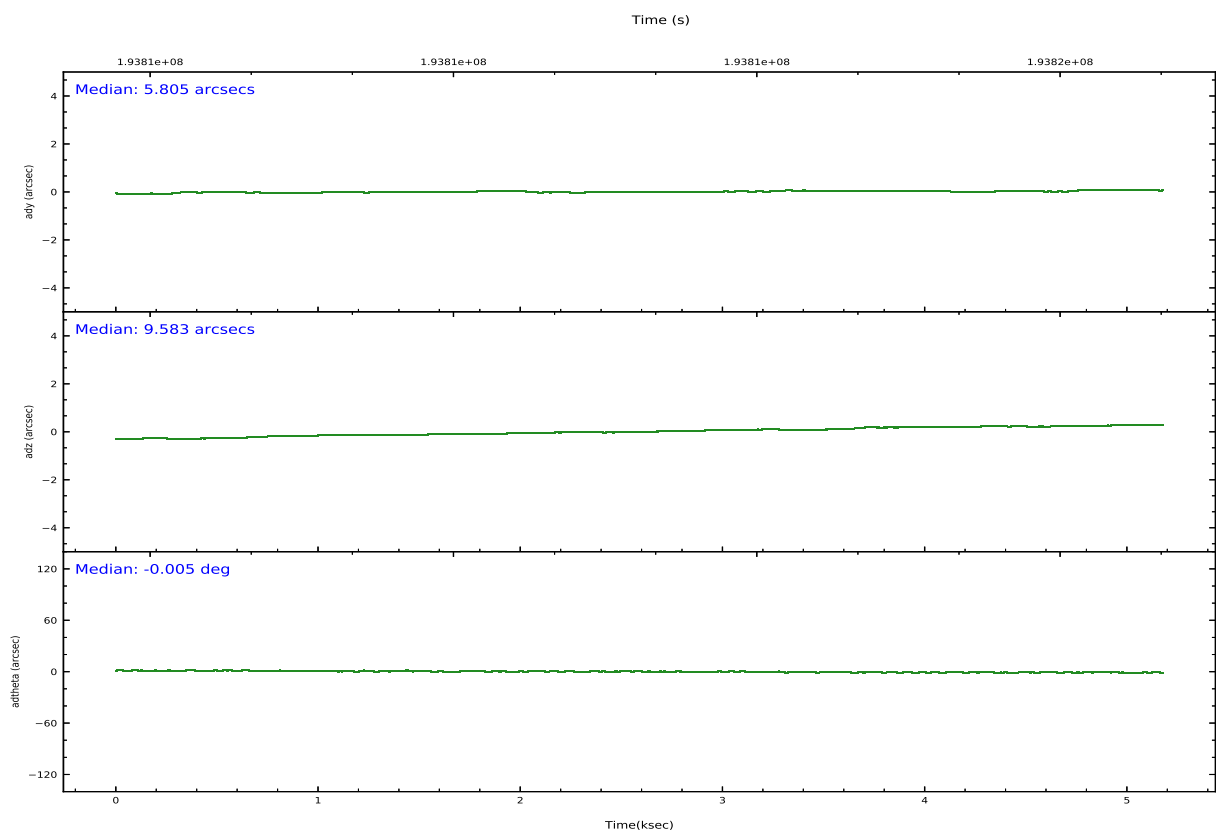
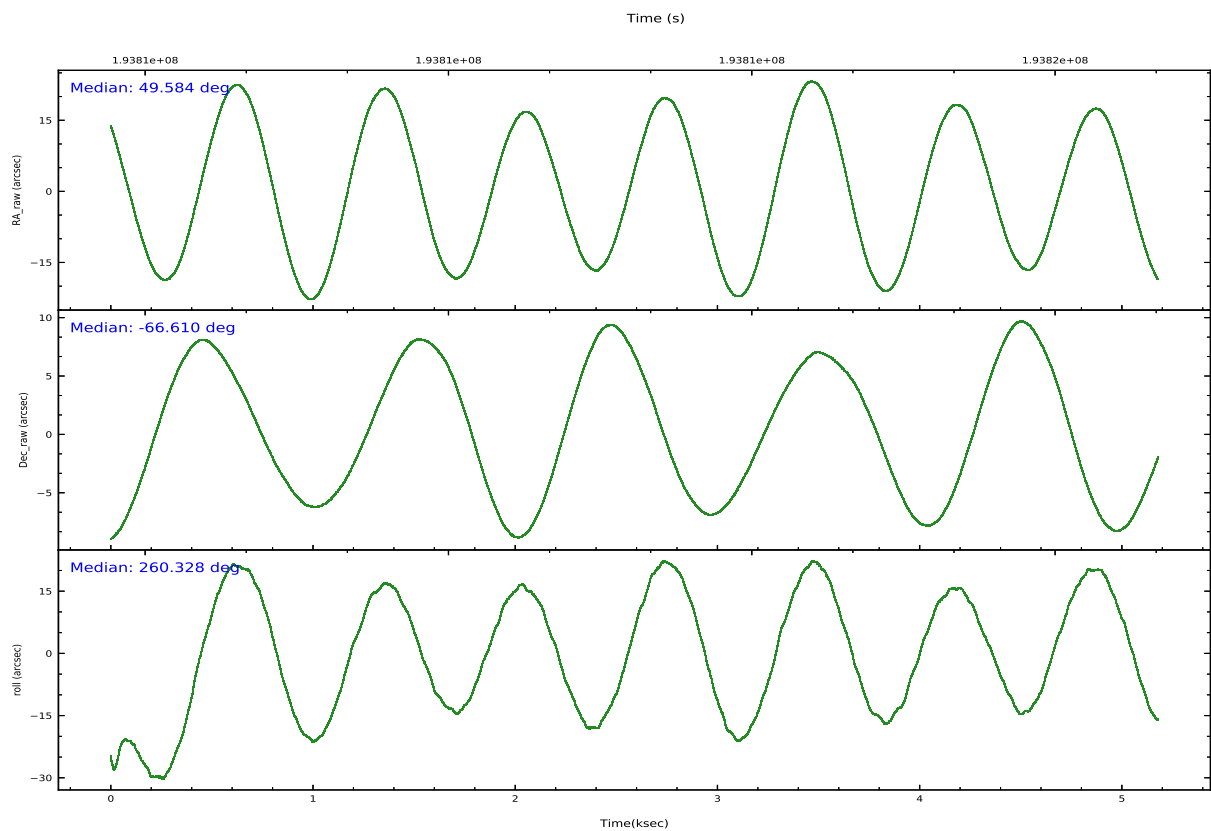
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18387	16542	27985	16098	23927	24623	grade 0 events	876	768	4560	789	1240	2936
rejected events	16274	14613	13407	14092	13264	17889		4%	4%	16%	4%	5%	11%
rejected %	88%	88%	47%	87%	55%	72%	grade 1 events	8	4	41	3	32	28
								0%	0%	0%	0%	0%	0%
							grade 2 events	435	353	3326	357	2243	1252
								2%	2%	11%	2%	9%	5%
							grade 3 events	249	229	608	262	1076	548
								1%	1%	2%	1%	4%	2%
							grade 4 events	235	245	526	215	1047	516
								1%	1%	1%	1%	4%	2%
							grade 5 events	699	758	1882	684	2277	975
								3%	4%	6%	4%	9%	3%
							grade 6 events	325	335	5570	384	5064	1483
								1%	2%	19%	2%	21%	6%
							grade 7 events	15560	13850	11472	13404	10948	16885
								84%	83%	40%	83%	45%	68%

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	49.560016	49.578448470223	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-66.584724	-66.607931017225	Subarray start row	257	257
[deg] Pointing Roll	260.143590	260.3278868215	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	193811510.184000	193811133.99476			
Observation start date	2004-02-22T04:30:46	2004-02-22T04:25:33			
[s] Observation end time (MET)	193816510.184000	193817318.84503			
Observation end date	2004-02-22T05:54:06	2004-02-22T06:08:38			
Read mode	TIMED	TIMED			

2.3 Aspect



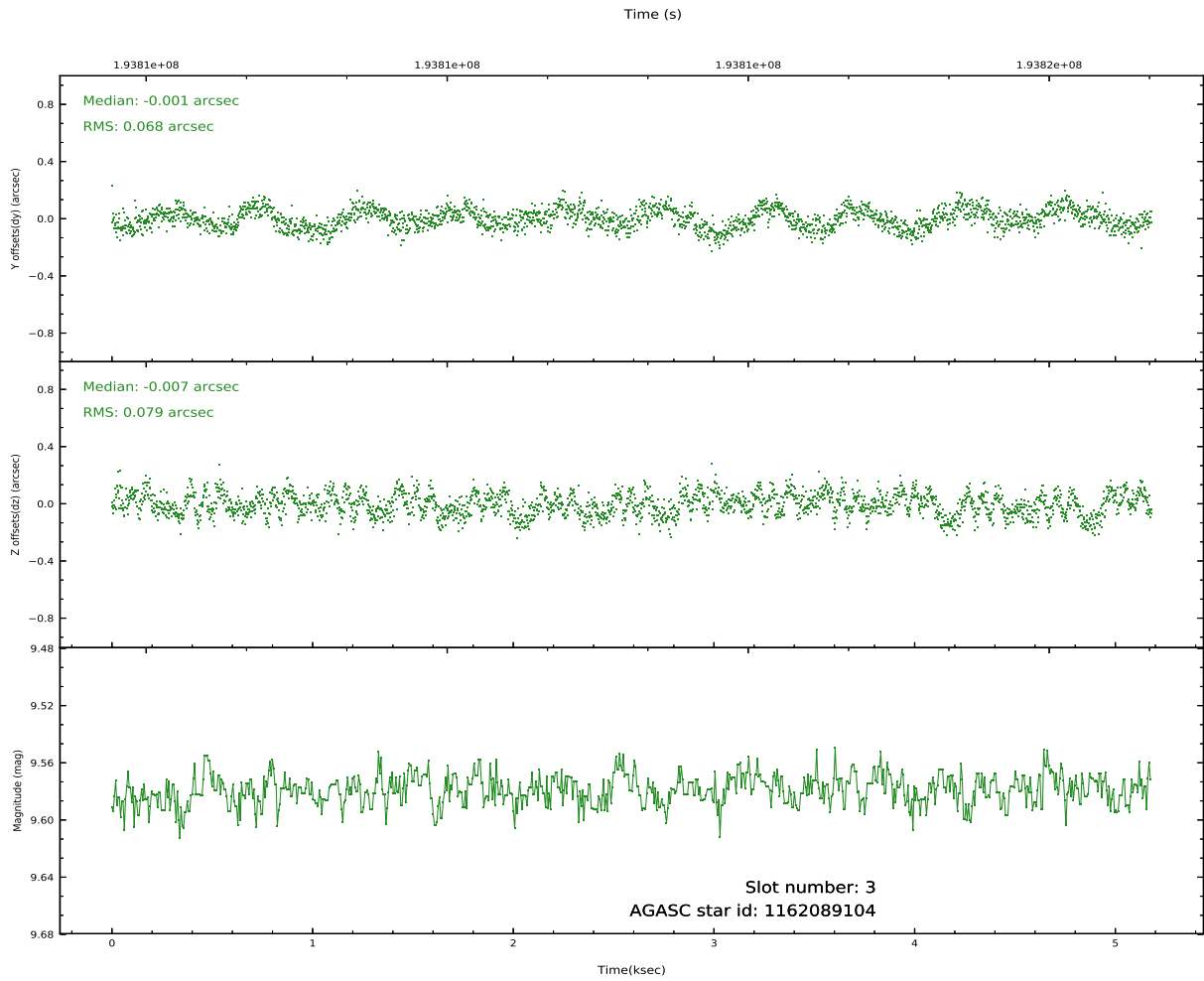
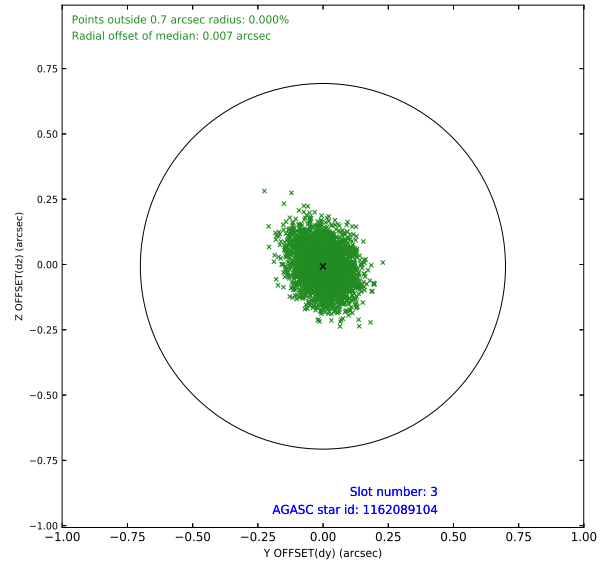
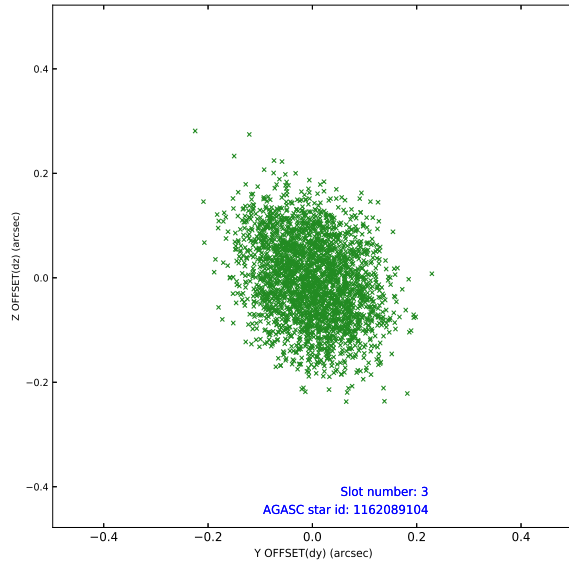


Slot Statistics

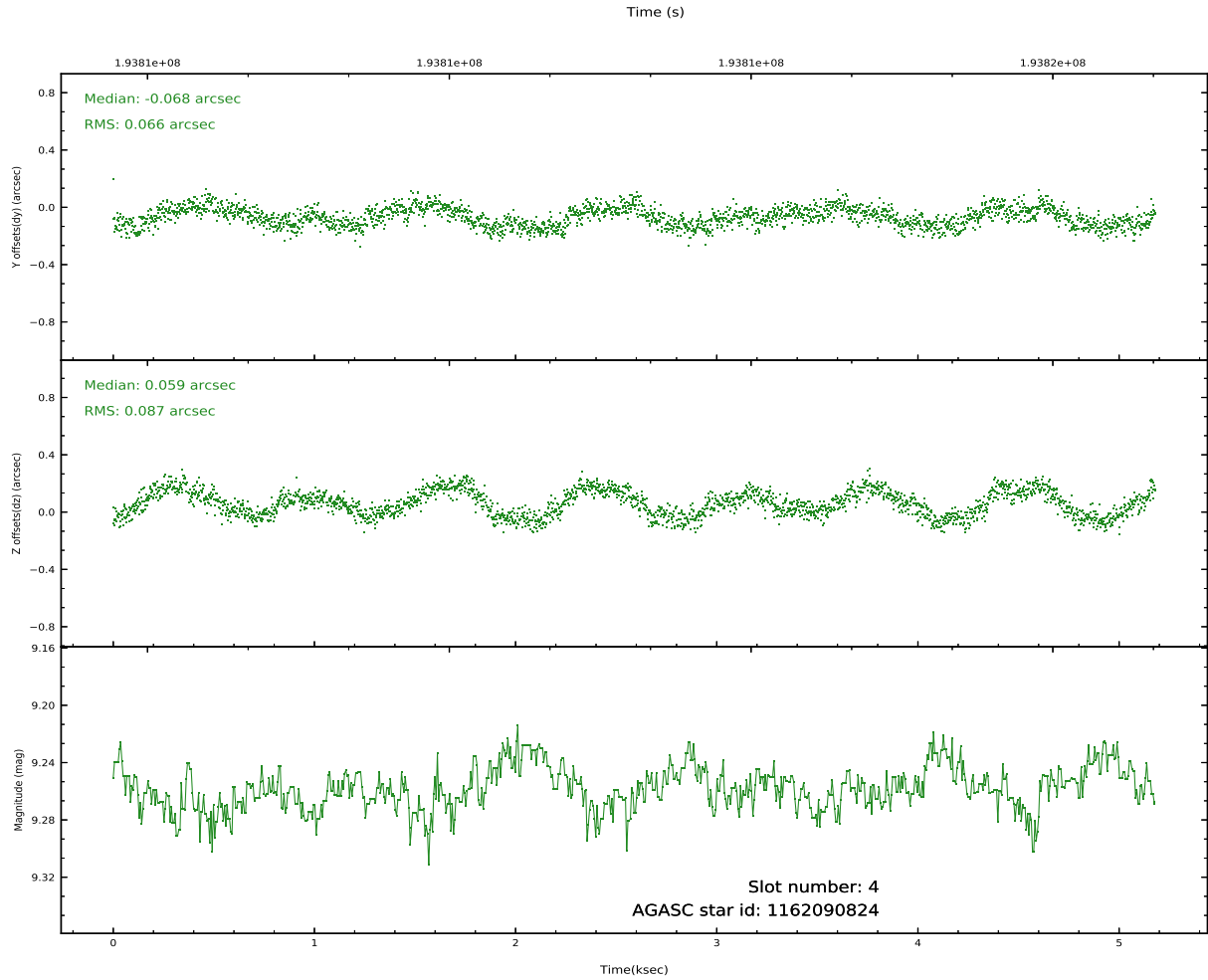
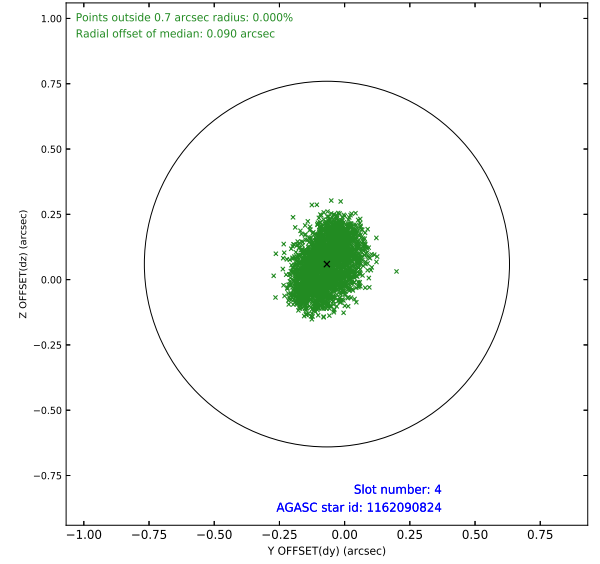
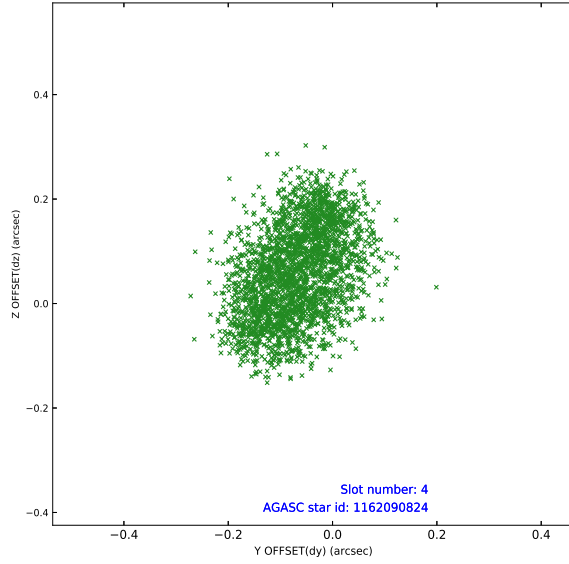
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	1264	1.000	-0.090	-0.066	0.008	0.013	0.000000	0.000000	-758.58	-1730
1	FID		ACIS-S-4	7.20	1264	1.000	0.148	0.061	0.005	0.010	0.000000	0.000000	2154.36	176
2	FID		ACIS-S-5	7.23	1264	1.000	-0.090	0.014	0.008	0.014	0.000000	0.000000	-1809.96	171
3	GUIDE	used	1162089104	9.58	2524	1.000	-0.001	-0.007	0.113	0.174	48.422126	-66.410699	-321.54	-1719
4	GUIDE	used	1162090824	9.26	2527	1.000	-0.068	0.059	0.122	0.175	48.677982	-66.885202	1288.02	-1041
5	GUIDE	used	1162094224	9.66	2526	1.000	0.115	-0.140	0.244	0.335	49.638584	-66.701903	397.54	182
6	GUIDE	used	1162095544	10.21	2525	1.000	-0.040	0.034	0.133	0.237	48.846024	-66.171463	-1281.75	-1276
7	GUIDE	used	1162087624	8.83	2527	1.000	0.000	0.068	0.117	0.186	48.473273	-67.184779	2400.77	-1122

2.4 Star Slots

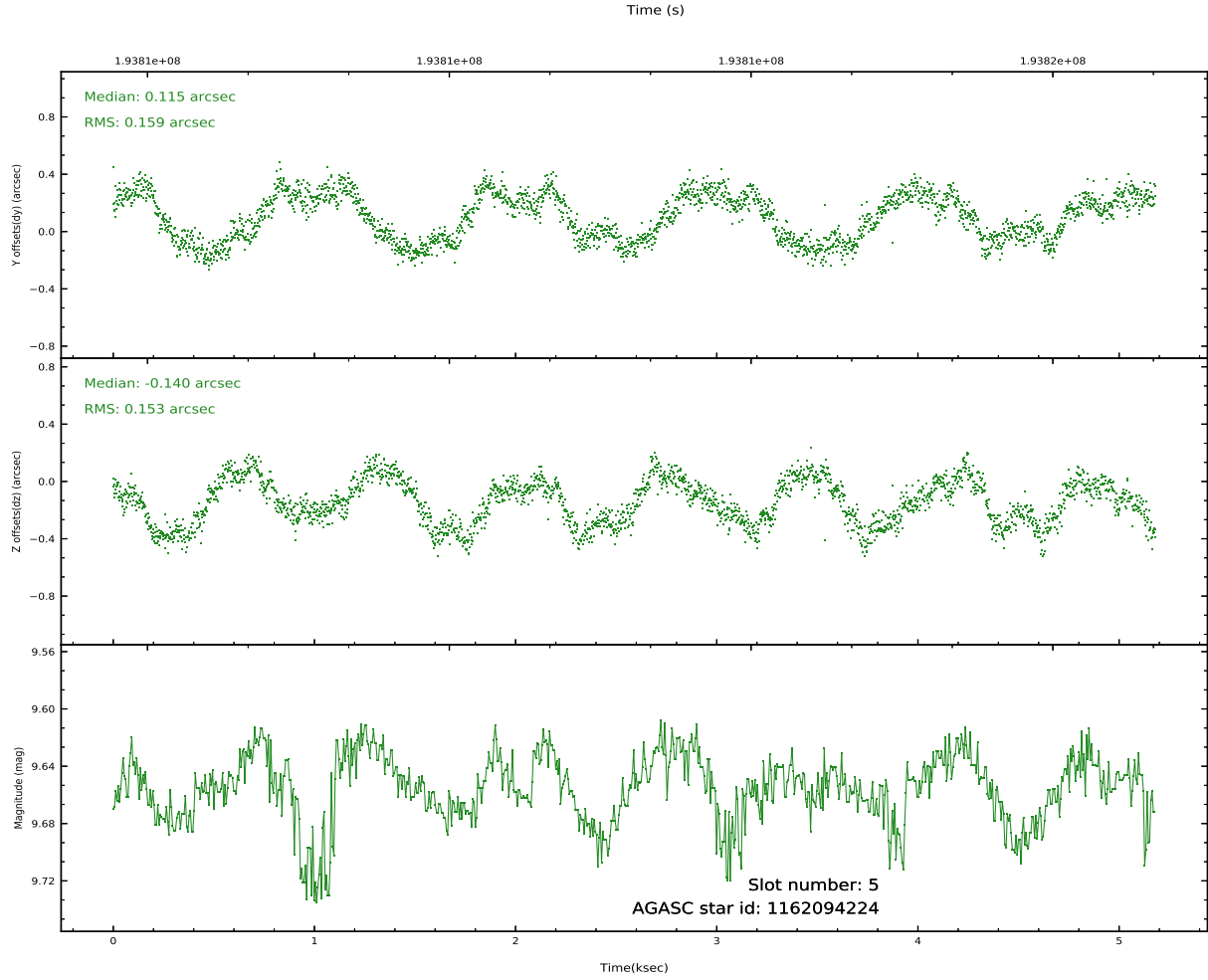
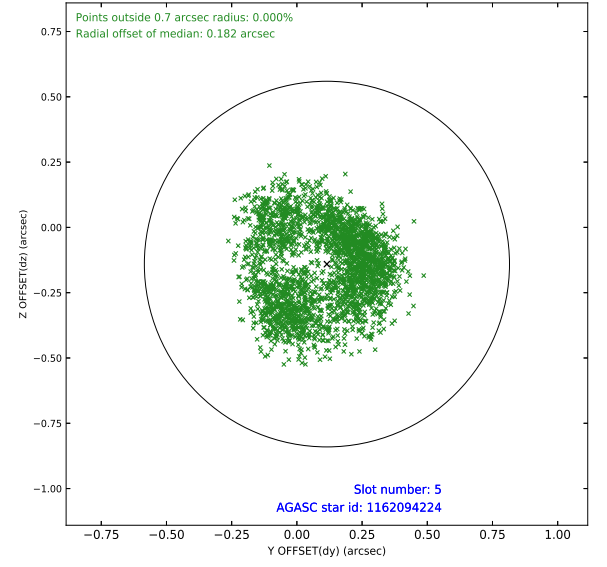
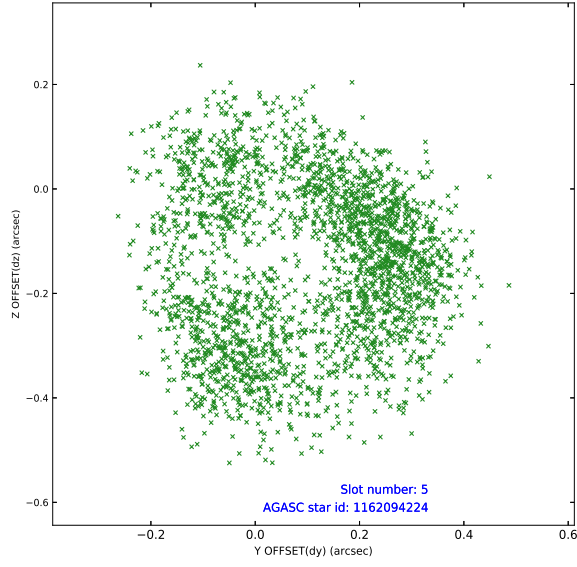
2.4.1 Slot 3



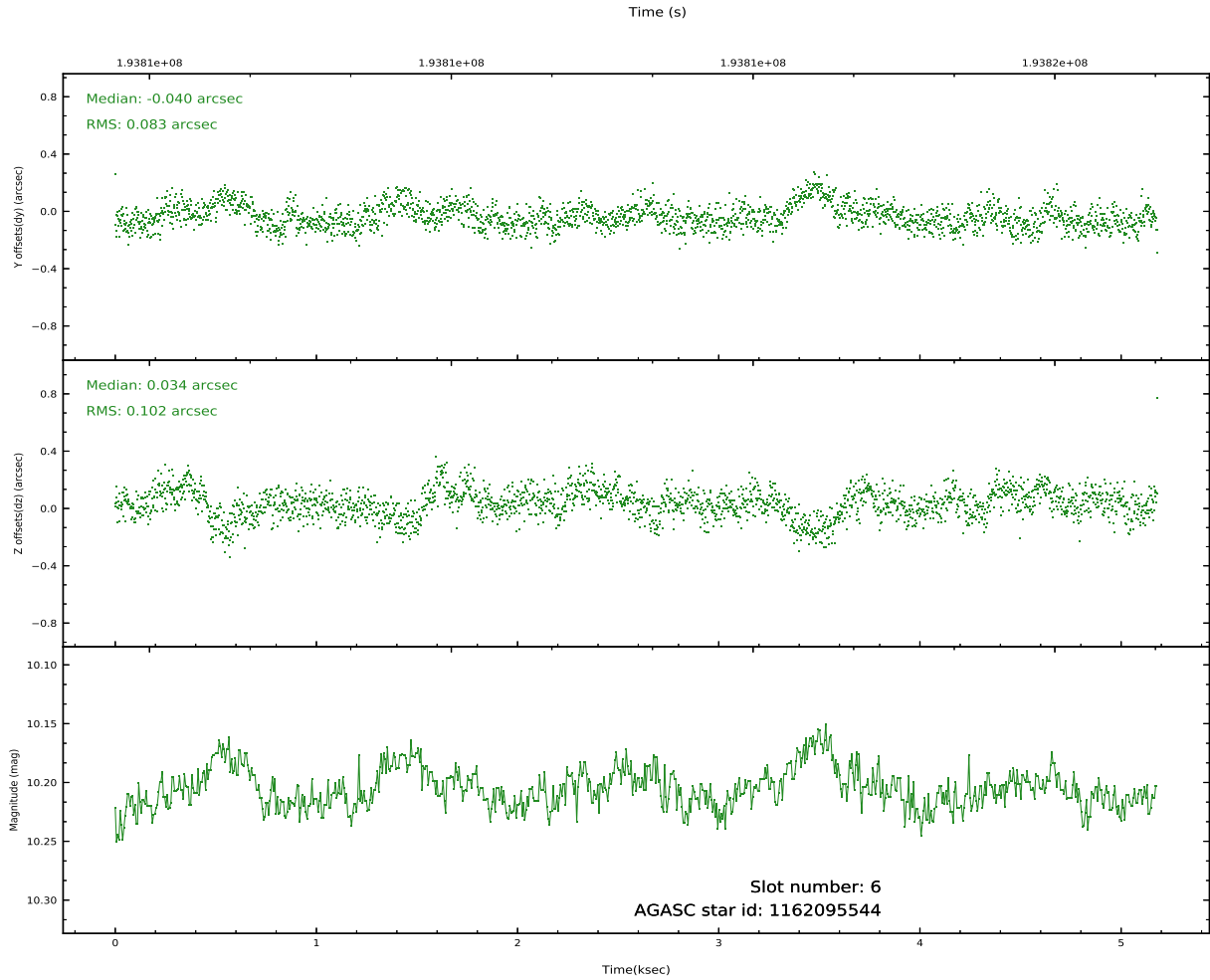
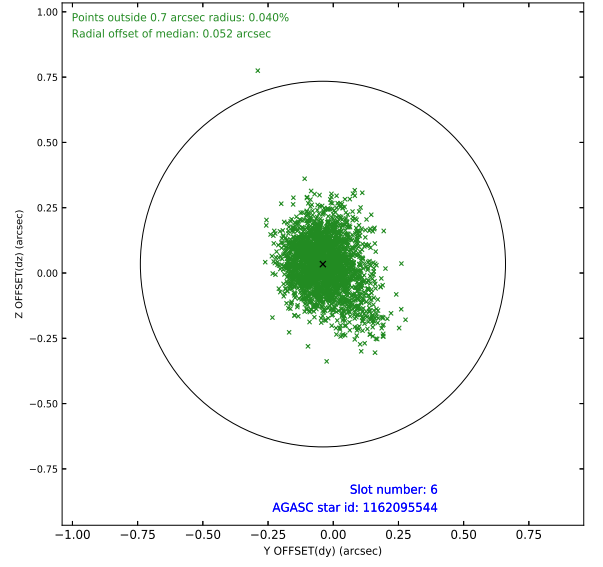
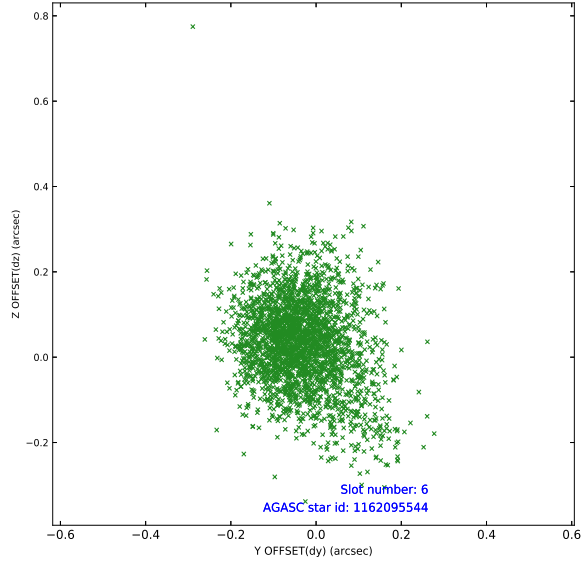
2.4.2 Slot 4



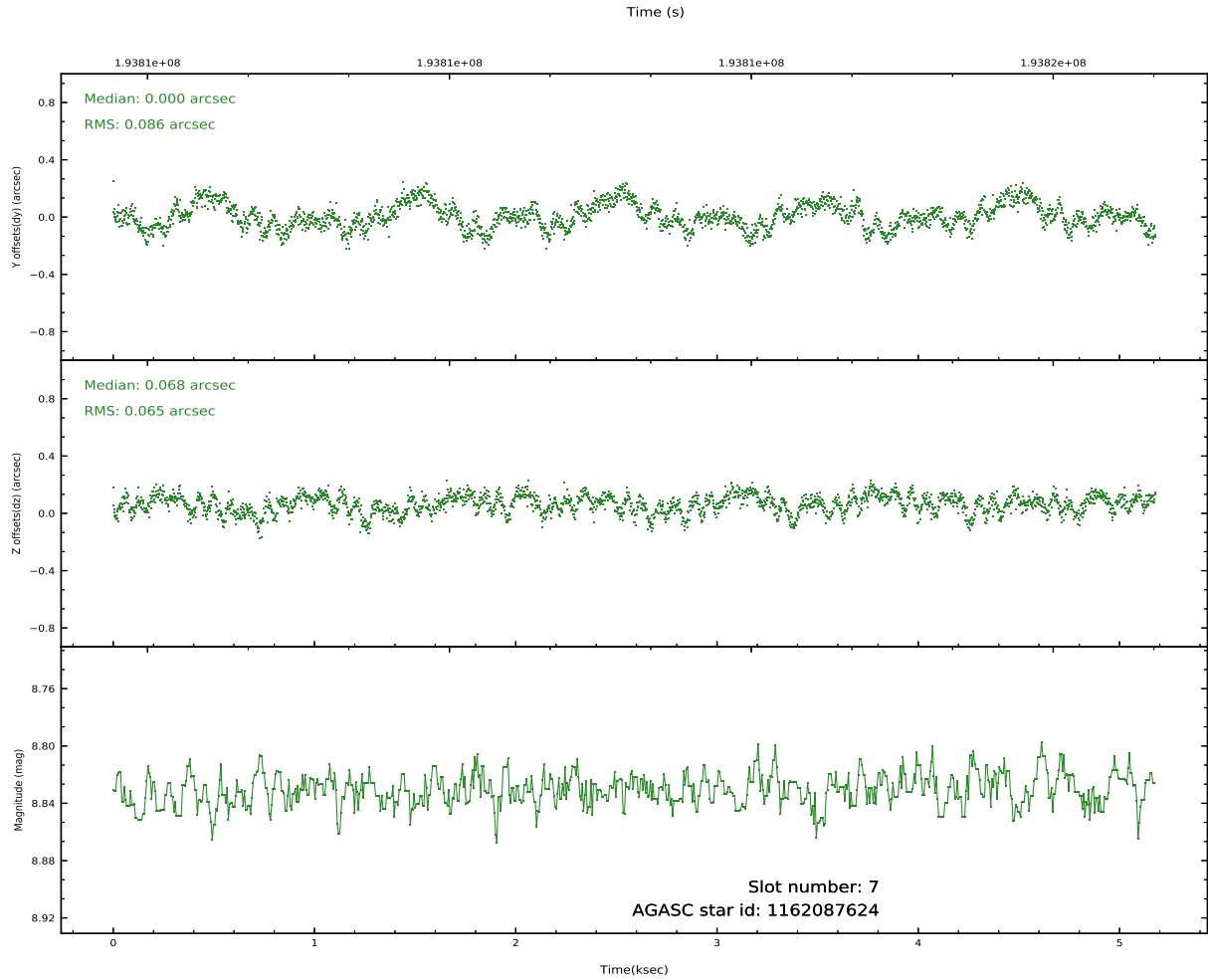
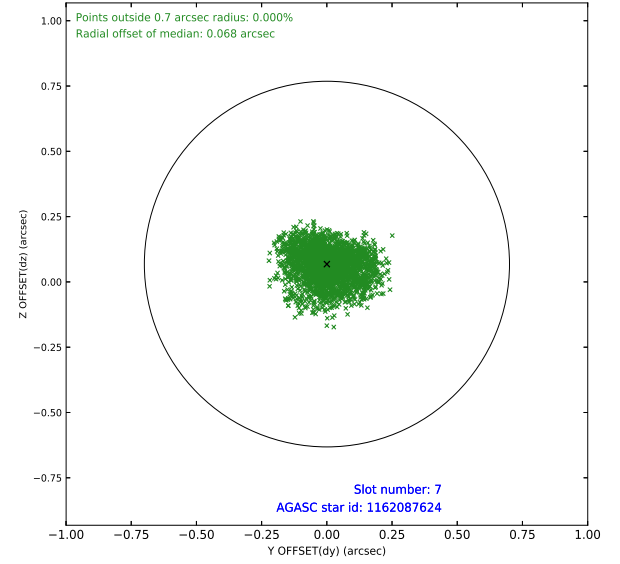
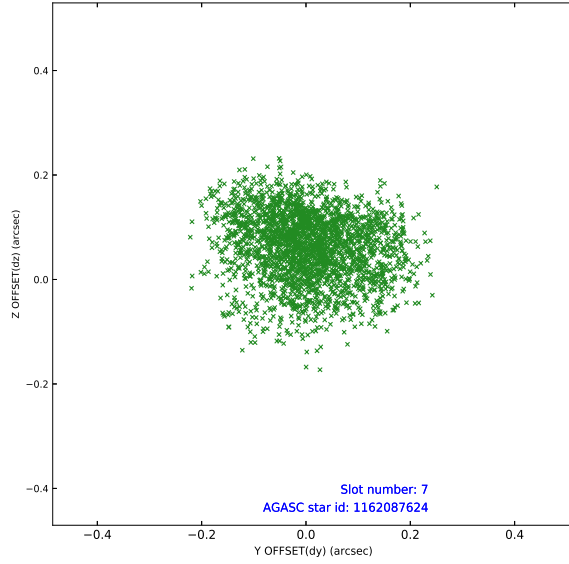
2.4.3 Slot 5



2.4.4 Slot 6

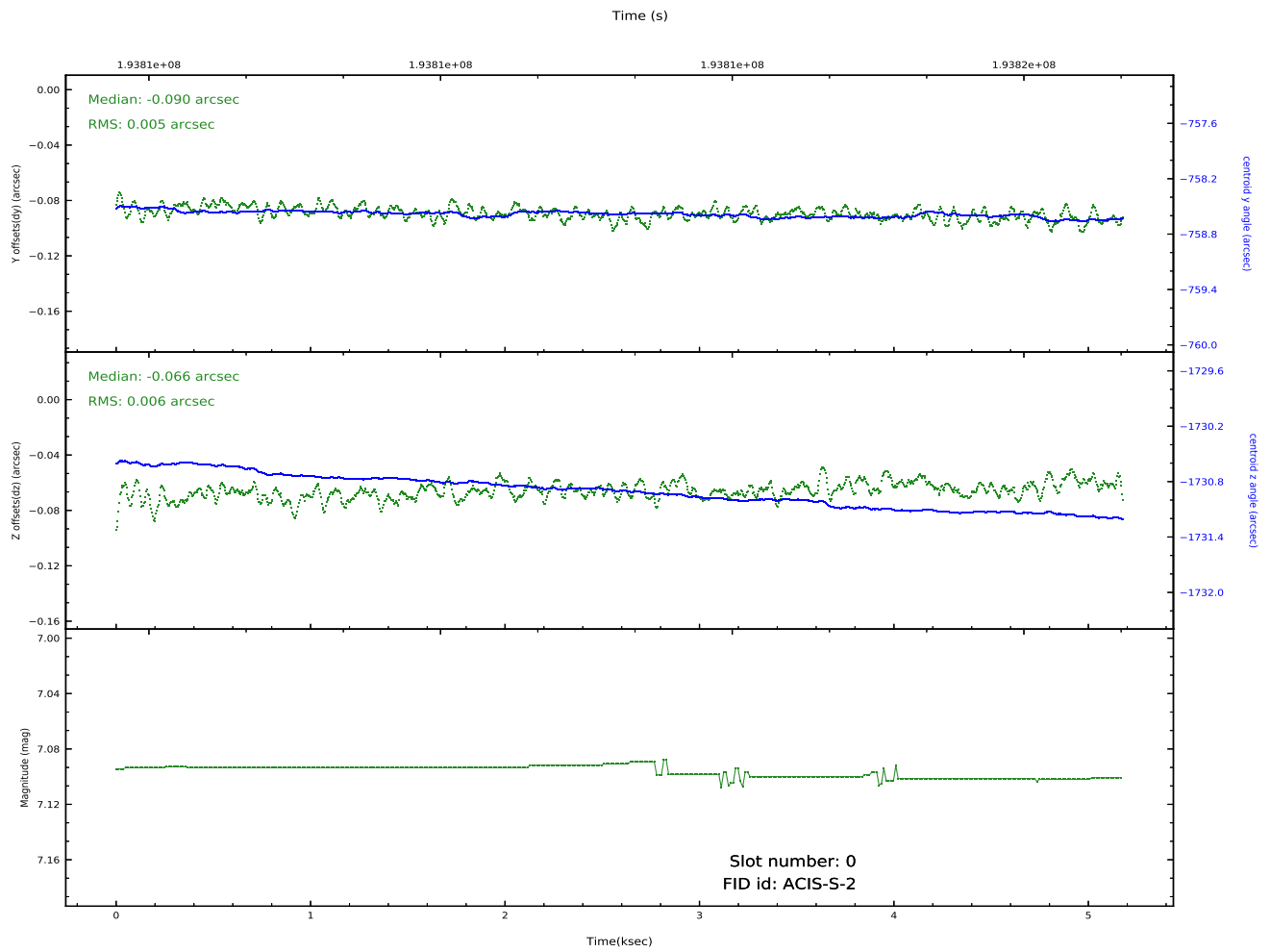
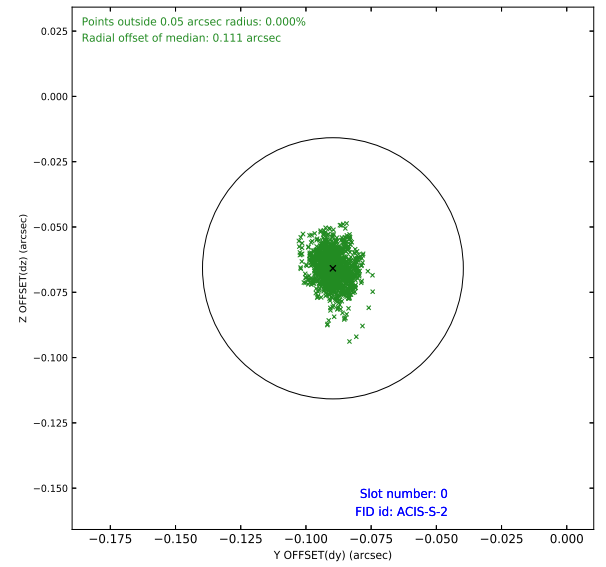
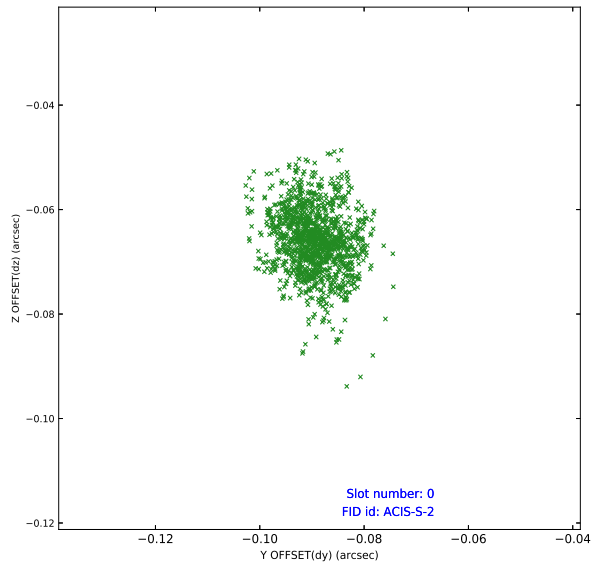


2.4.5 Slot 7

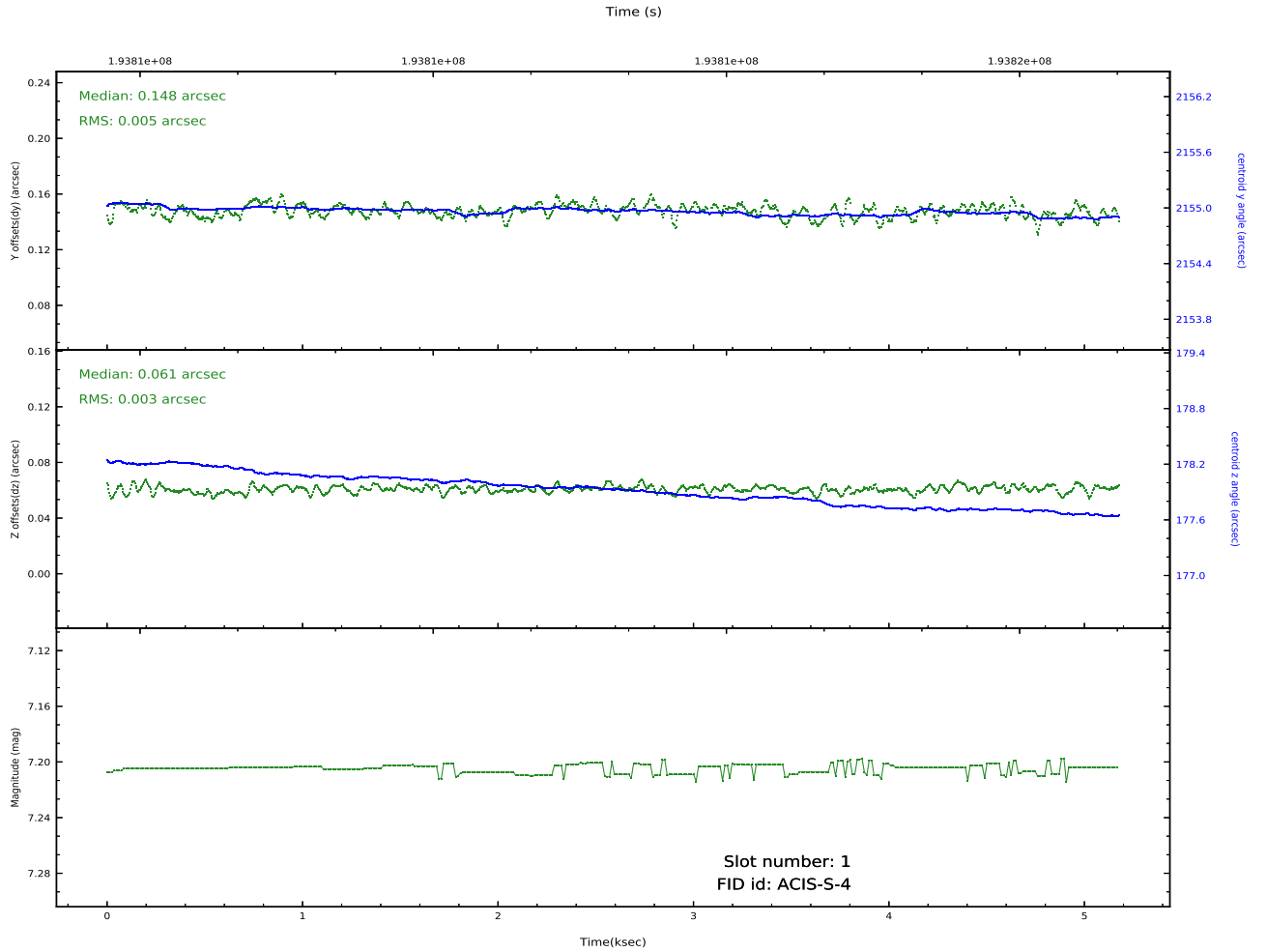
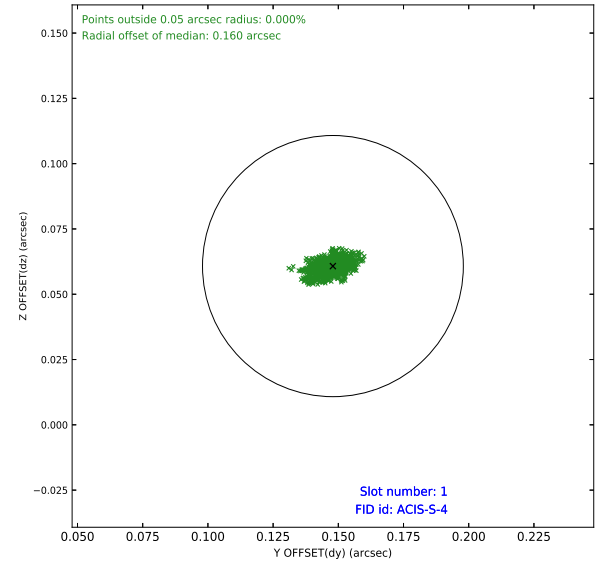
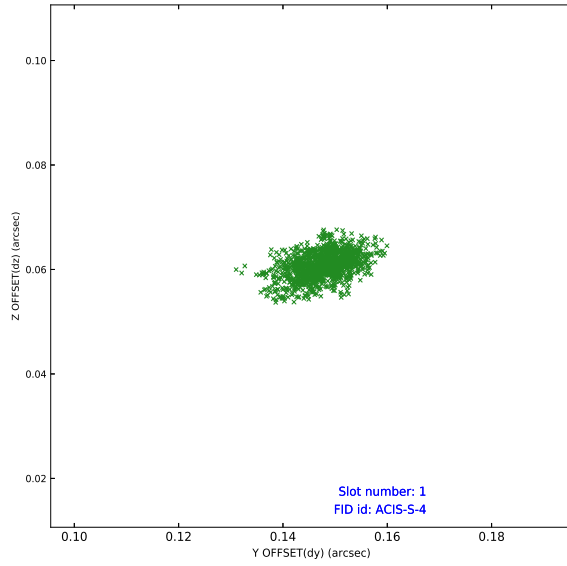


2.5 FID Slots

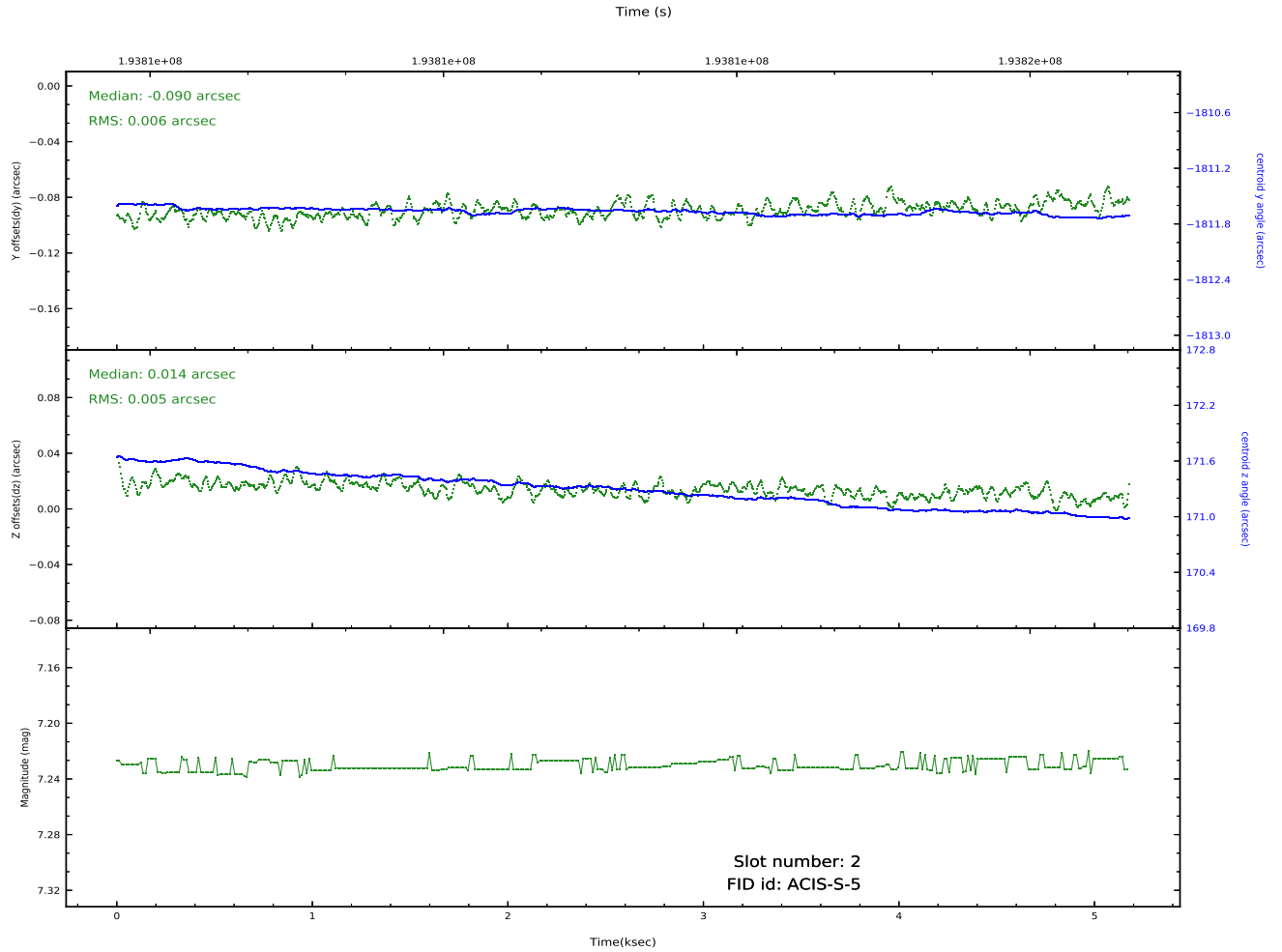
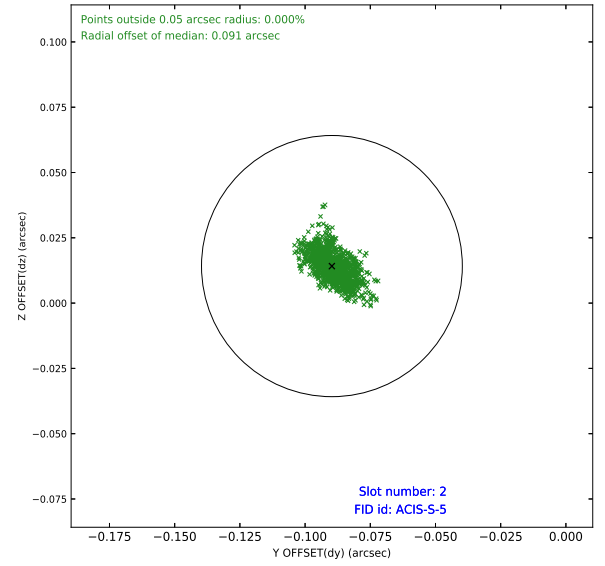
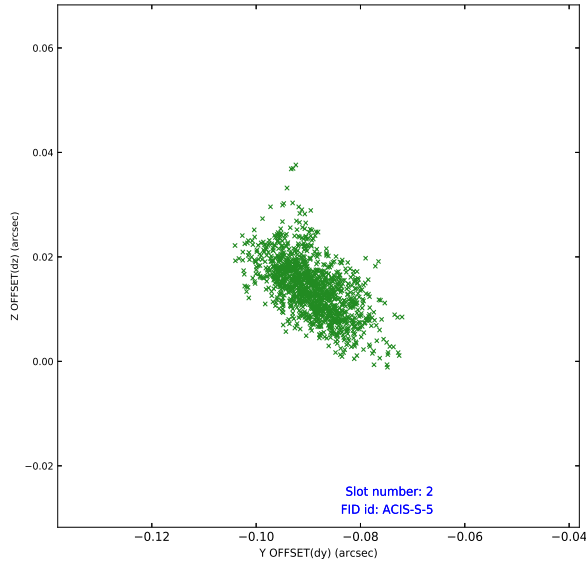
2.5.1 Slot 0



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)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.761

A.2 Comments

Window preference met. Joint Proposal: CX0-HST