

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4686 - L2 Version 5
Chandra X-Ray Center

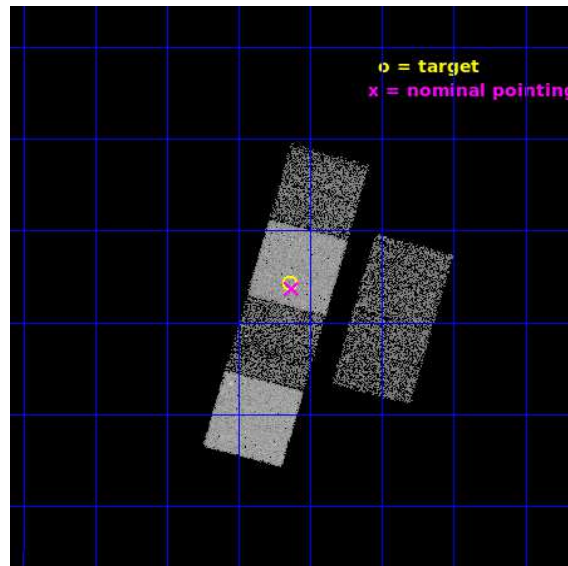
L2 Processing Date : Sep 23 2020

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1 Front

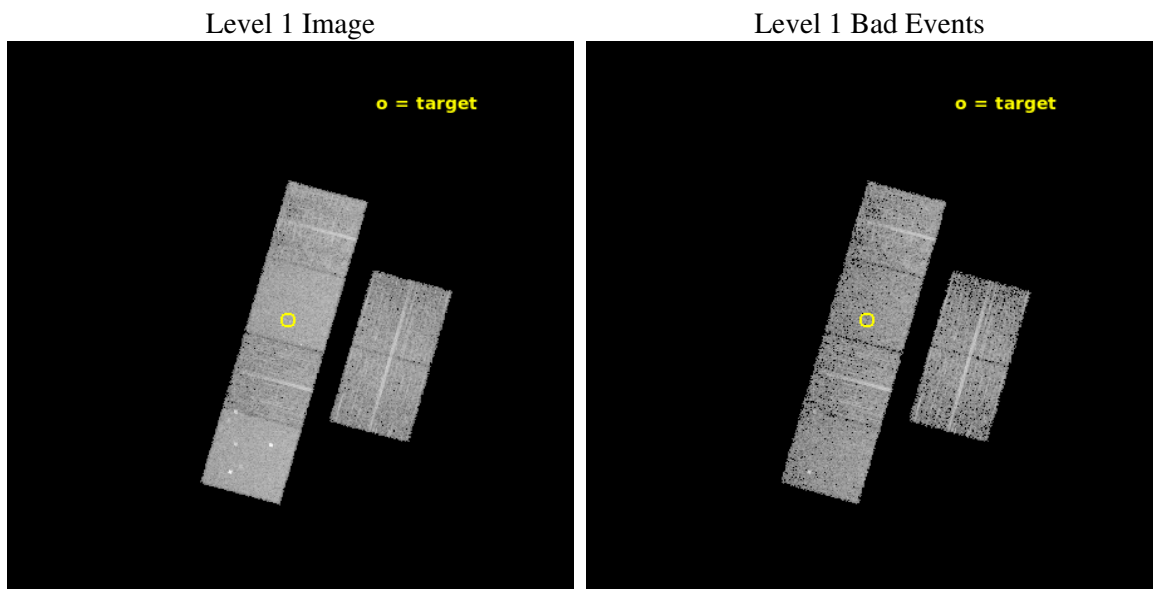
seq_num	600341	Sequence number
obs_id	4686	Observation id
title	Locating Ultraluminous X-Ray Sources	Proposal title
observer	Philip Kaaret	Principal investigator
object	NGC 1073	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.909583	Observer's specified target RA [deg]
dec_targ	1.403611	Observer's specified target Dec [deg]
ra_nom	40.907009037718	Nominal RA [deg]
dec_nom	1.3947907809725	Nominal Dec [deg]
roll_nom	285.59936001106	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5811.1999783516	Sum of GTIs [s]
livetime	5737.6150651412	Livetime [s]
ontime2	5811.1999783516	Sum of GTIs [s]
ontime3	5811.1999783516	Sum of GTIs [s]
ontime5	5811.1999783516	Sum of GTIs [s]
ontime6	5811.1999783516	Sum of GTIs [s]
ontime7	5811.1999783516	Sum of GTIs [s]
ontime8	5811.1999783516	Sum of GTIs [s]
l2events	58757	Number of level 2 events



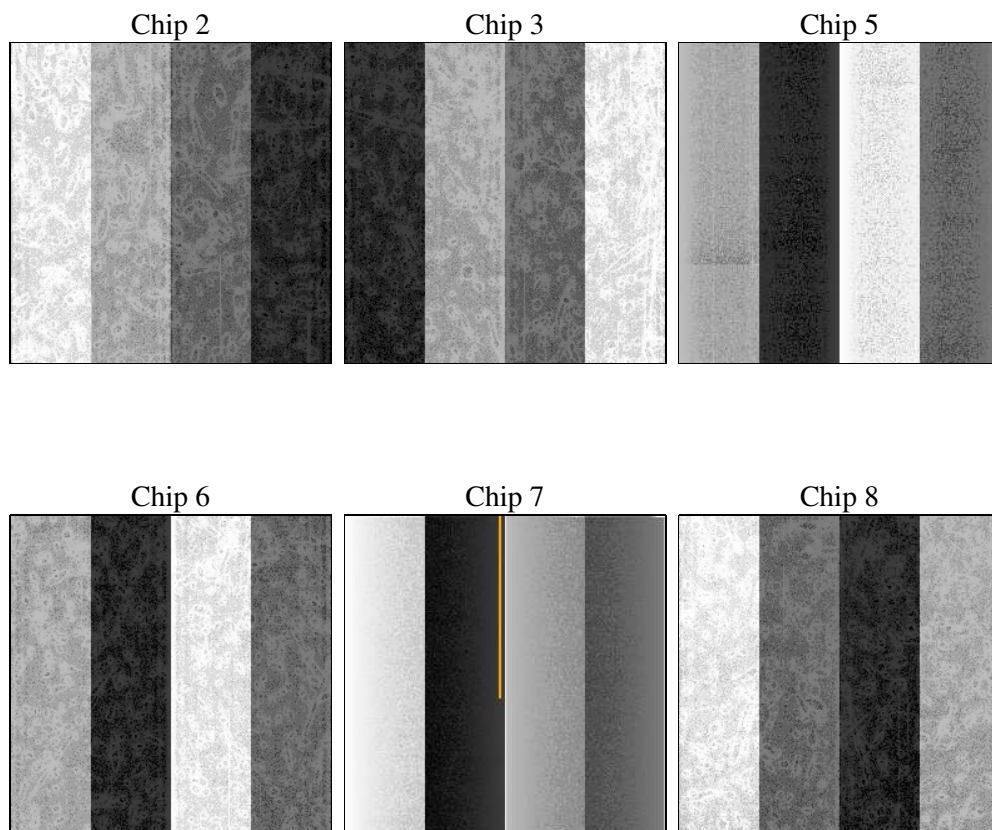
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5673.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5811.1999783516	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	5811.1999783516	Sum of GTIs [s]
date	2020-09-23T04:20:17	Date and time of file creation	ontime3	5811.1999783516	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	5811.1999783516	Sum of GTIs [s]
			ontime6	5811.1999783516	Sum of GTIs [s]
			ontime7	5811.1999783516	Sum of GTIs [s]
			ontime8	5811.1999783516	Sum of GTIs [s]
			l1events	260263	Number of level 1 events

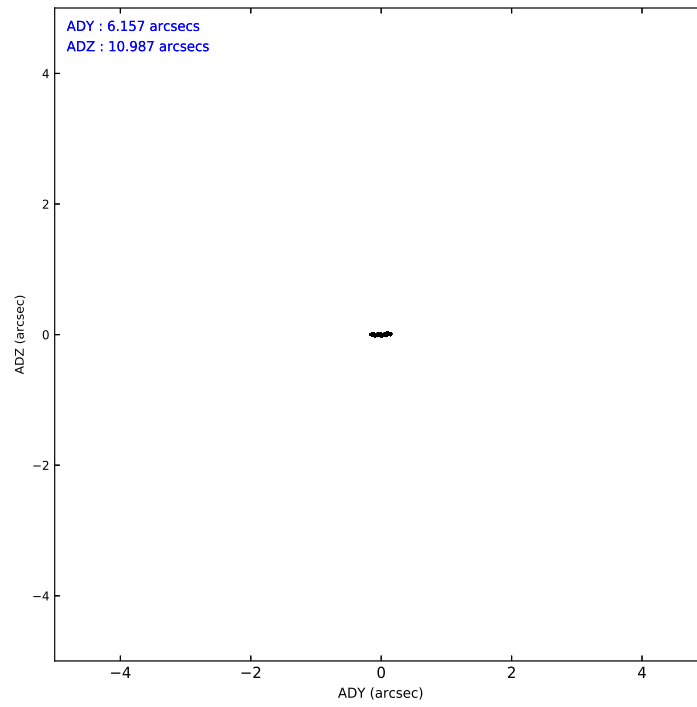
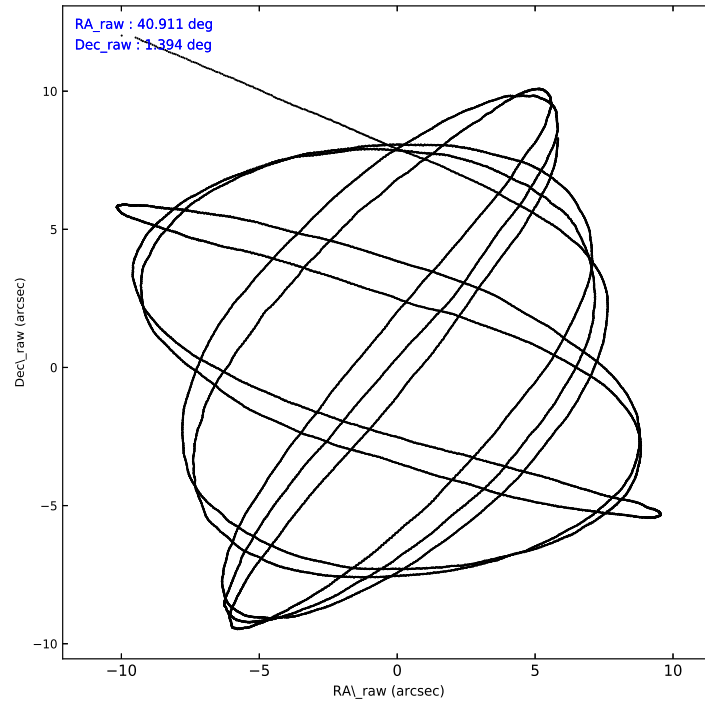
2.1.4 Events

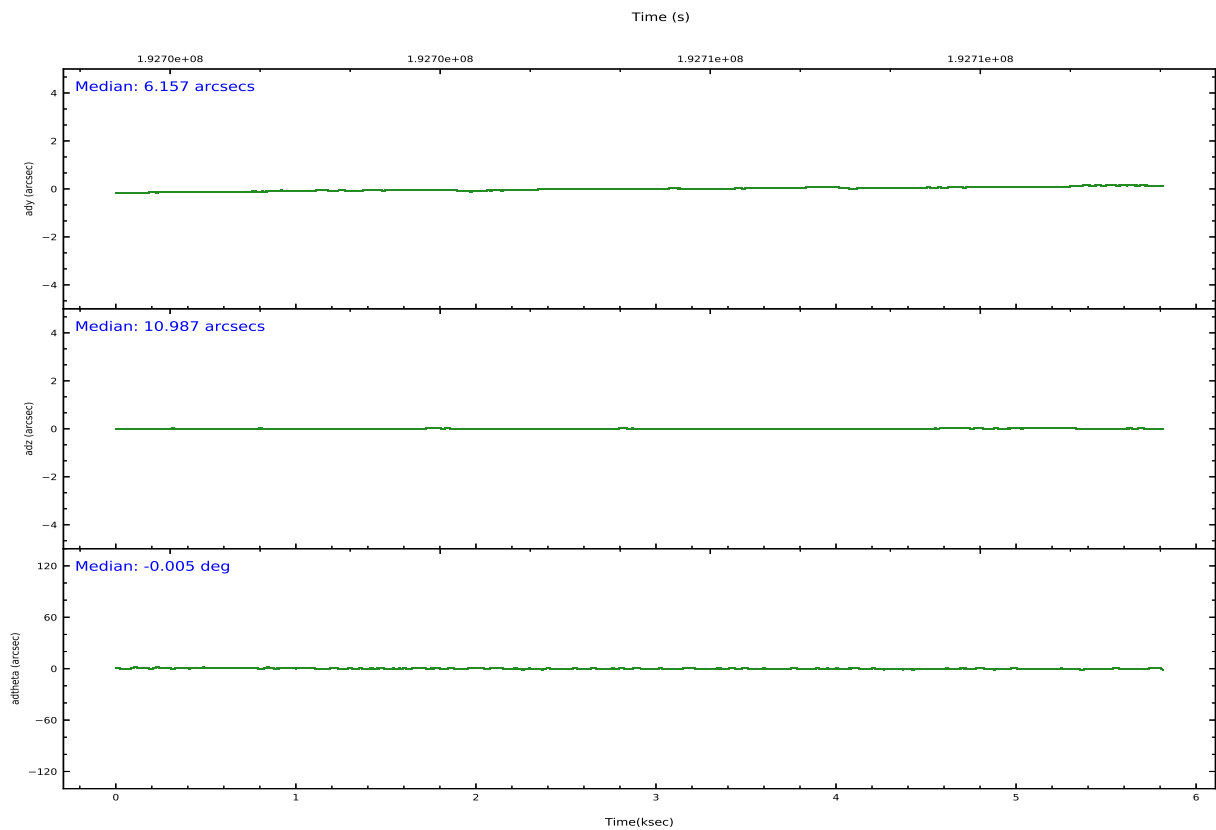
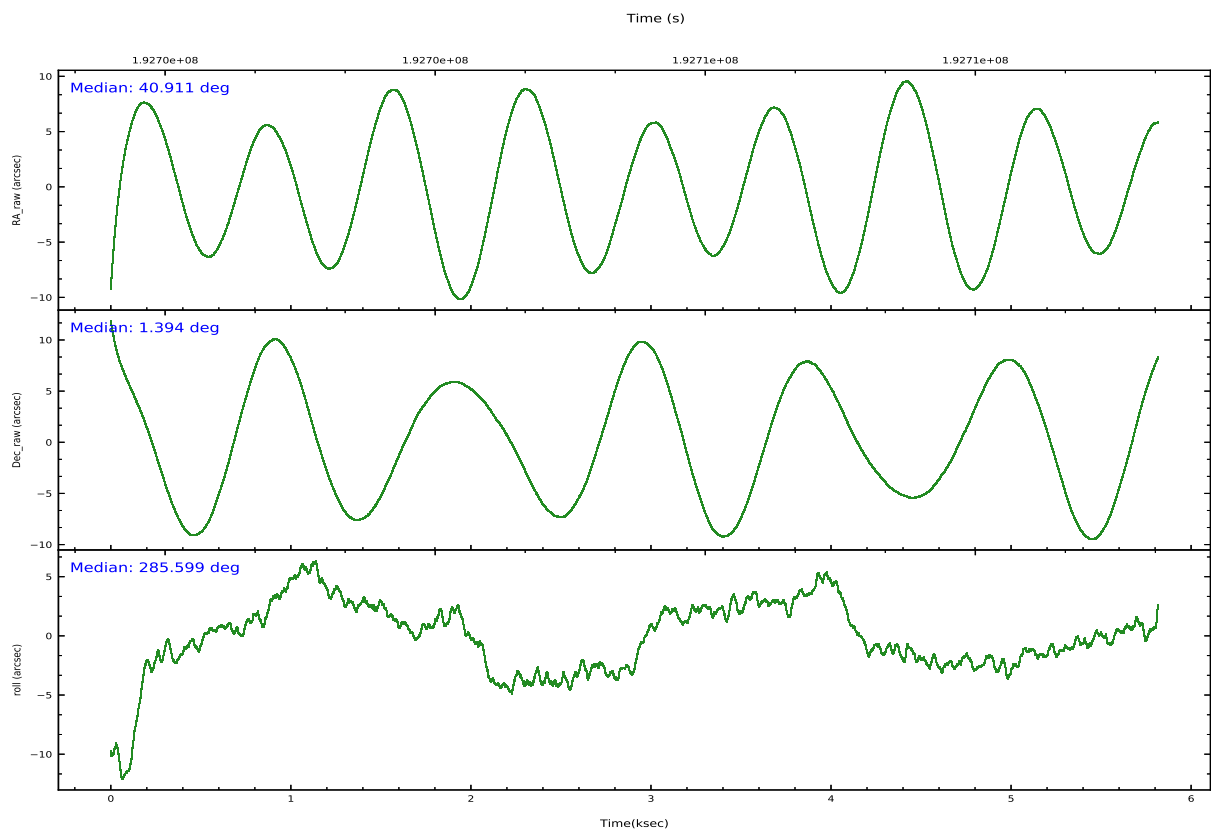
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36563	34671	56474	36682	50065	45808	grade 0 events	1958	1804	3962	1776	2017	3018
rejected events	32140	30465	30057	32277	29121	36296		5%	5%	7%	4%	4%	6%
rejected %	87%	87%	53%	87%	58%	79%	grade 1 events	22	25	152	18	48	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	883	841	7576	891	4147	2040
								2%	2%	13%	2%	8%	4%
							grade 3 events	424	420	1034	433	1926	1044
								1%	1%	1%	1%	3%	2%
							grade 4 events	442	435	923	436	1831	931
								1%	1%	1%	1%	3%	2%
							grade 5 events	1446	1555	4098	1602	4876	2151
								3%	4%	7%	4%	9%	4%
							grade 6 events	730	708	12973	872	11054	2499
								1%	2%	22%	2%	22%	5%
							grade 7 events	30658	28883	25756	30654	24166	34100
								83%	83%	45%	83%	48%	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	40.890797	40.907009037718	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.412774	1.3947907809725	Alternating exposures requested	N	N
[deg] Pointing Roll	285.441411	285.59936001106	[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)	192702842.184000	192701789.77123			
Observation start date	2004-02-09T08:32:58	2004-02-09T08:16:29			
[s] Observation end time (MET)	192708515.184000	192709787.84658			
Observation end date	2004-02-09T10:07:31	2004-02-09T10:29:47			
Read mode	TIMED	TIMED			

2.3 Aspect



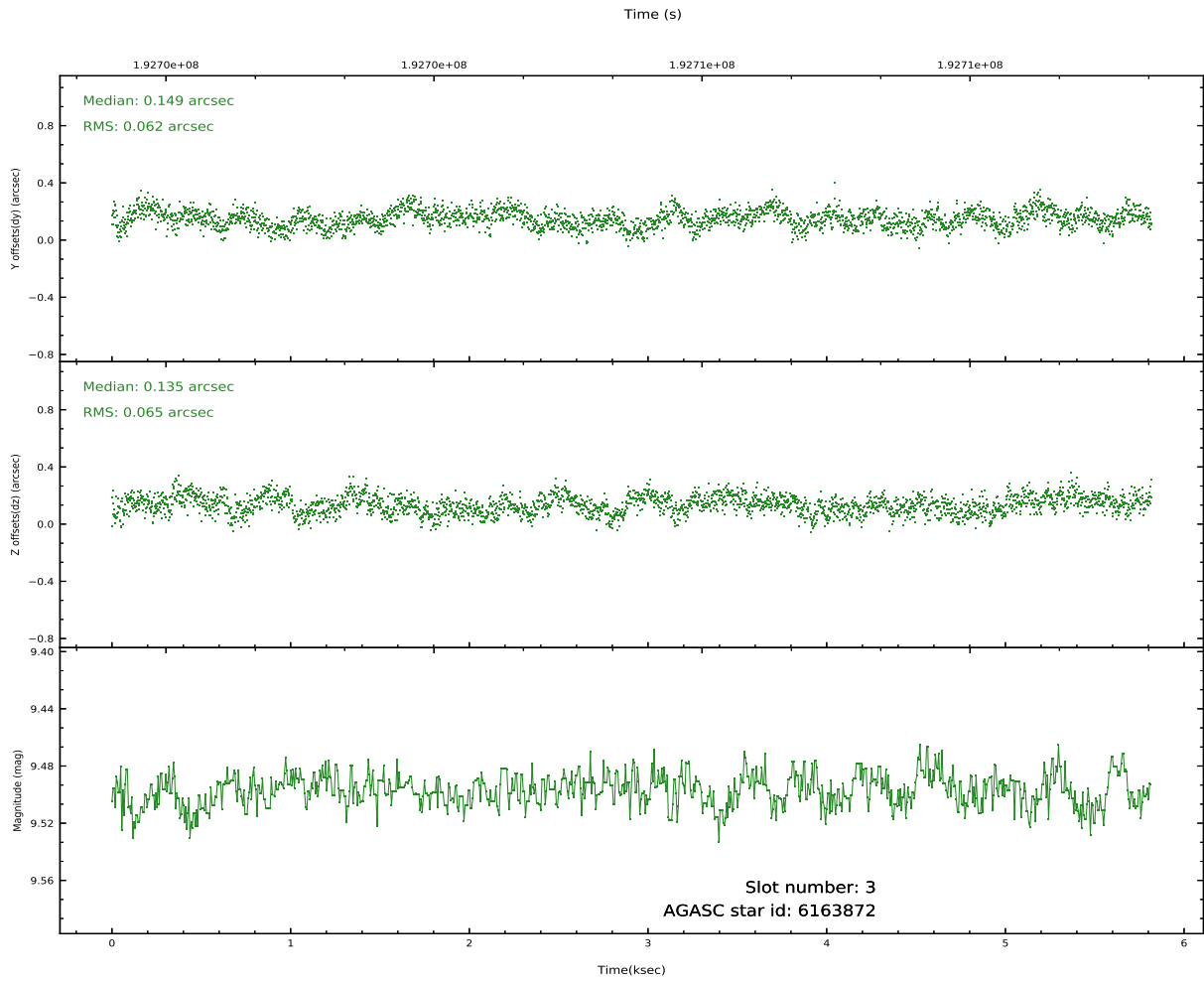
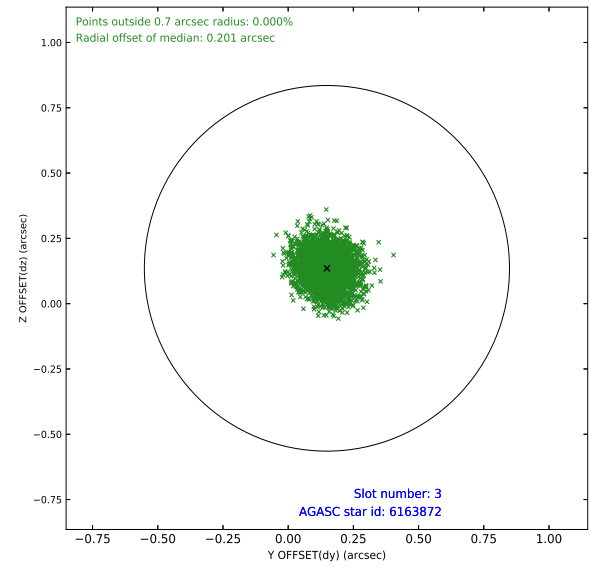
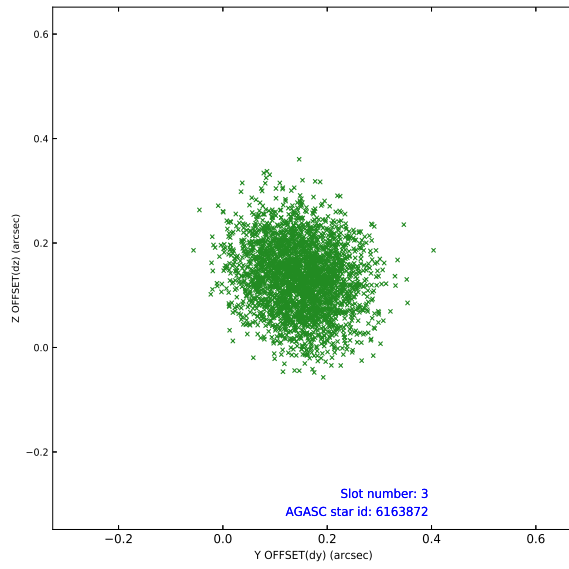


Slot Statistics

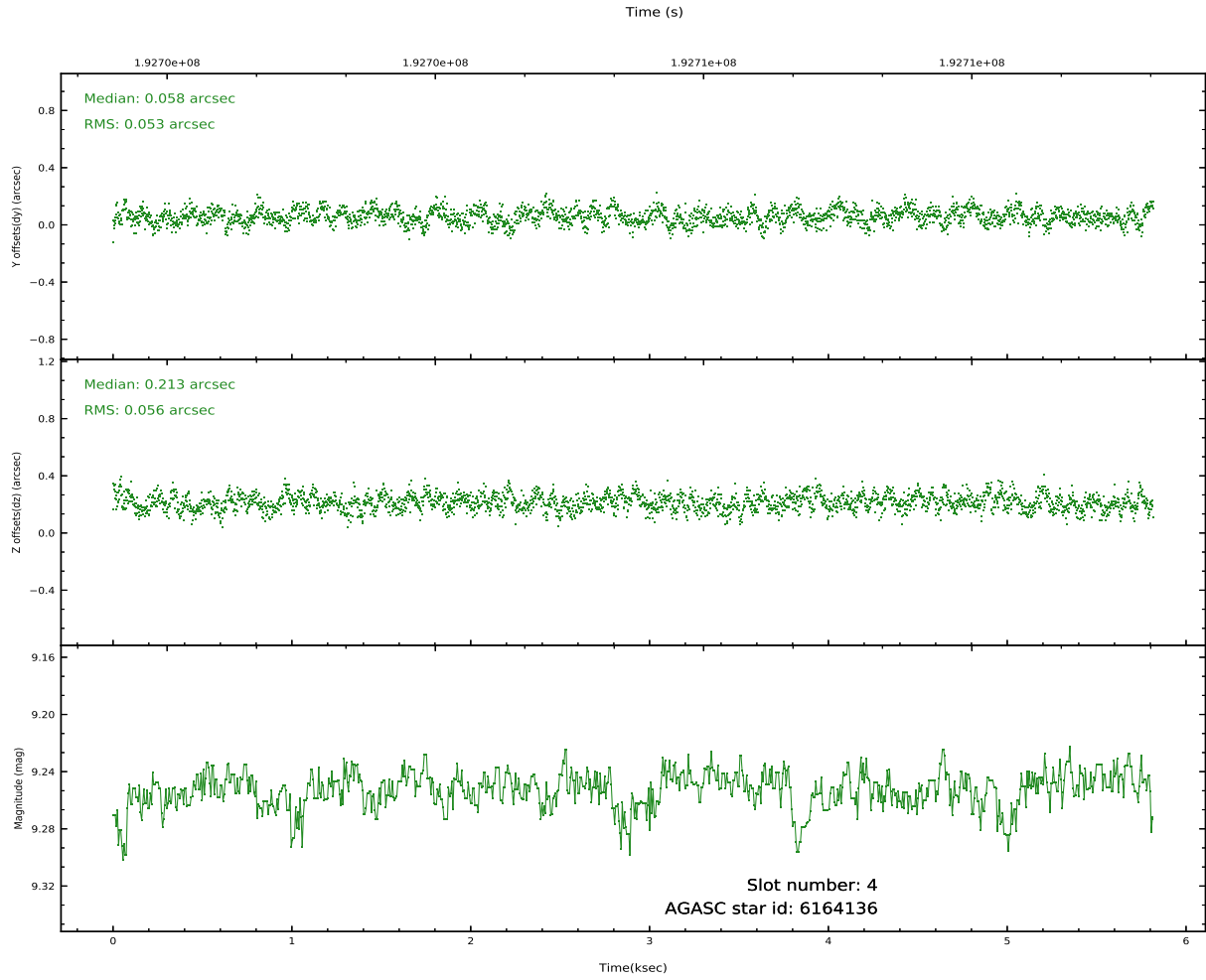
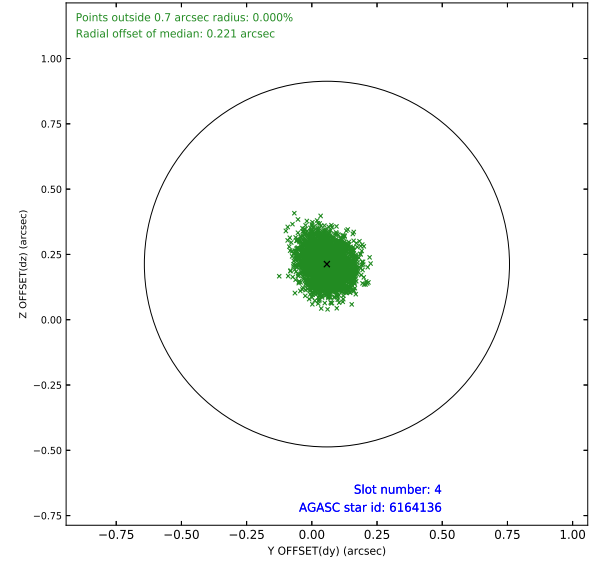
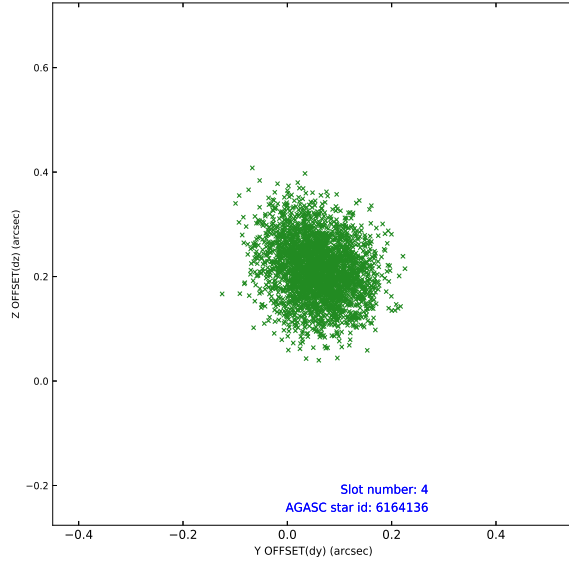
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1419	1.000	0.007	-0.076	0.007	0.012	0.000000	0.000000	937.14	-1727
1	FID		ACIS-S-2	7.10	1420	1.000	-0.113	-0.029	0.007	0.013	0.000000	0.000000	-758.31	-1733
2	FID		ACIS-S-4	7.20	1419	1.000	0.080	0.110	0.007	0.012	0.000000	0.000000	2154.01	175
3	GUIDE	used	6163872	9.50	2823	1.000	0.149	0.135	0.096	0.152	41.133772	1.508696	-100.18	935
4	GUIDE	used	6164136	9.25	2839	1.000	0.058	0.213	0.083	0.132	41.344068	1.447309	314.32	1606
5	GUIDE	used	6165200	9.64	2836	1.000	-0.028	-0.072	0.105	0.178	40.816423	1.985214	-2057.60	291
6	GUIDE	used	6167416	9.87	2834	1.000	0.175	0.104	0.103	0.168	41.158447	1.321640	572.00	841
7	GUIDE	used	6166328	7.49	2838	1.000	-0.353	-0.380	0.052	0.085	40.139957	1.866308	-2293.81	-2169

2.4 Star Slots

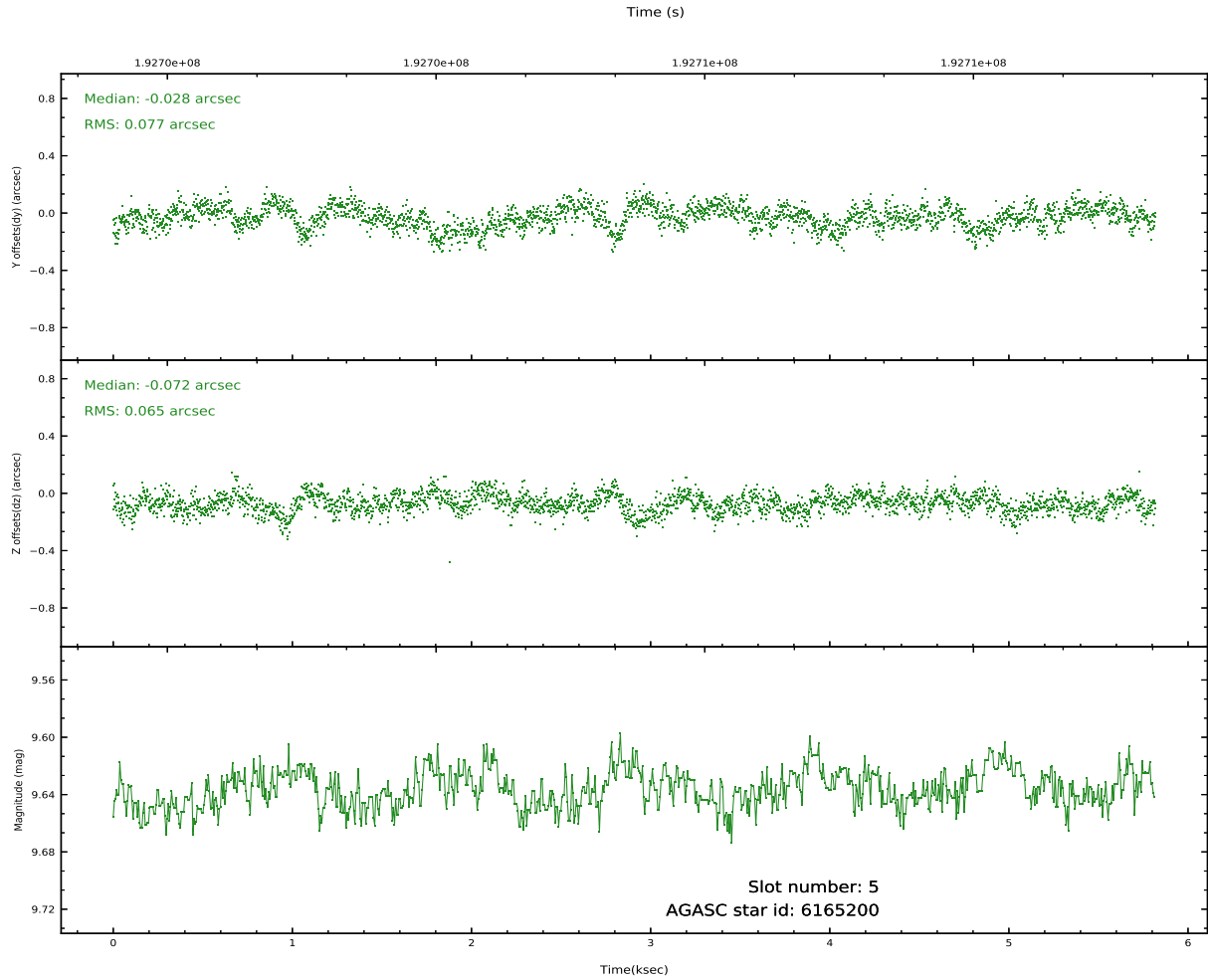
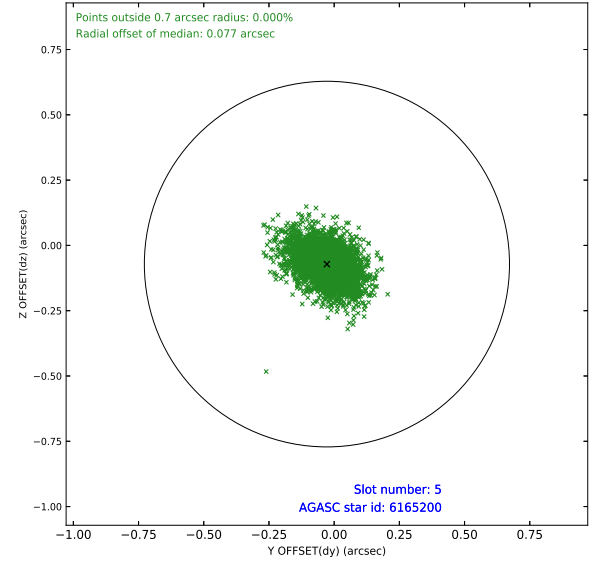
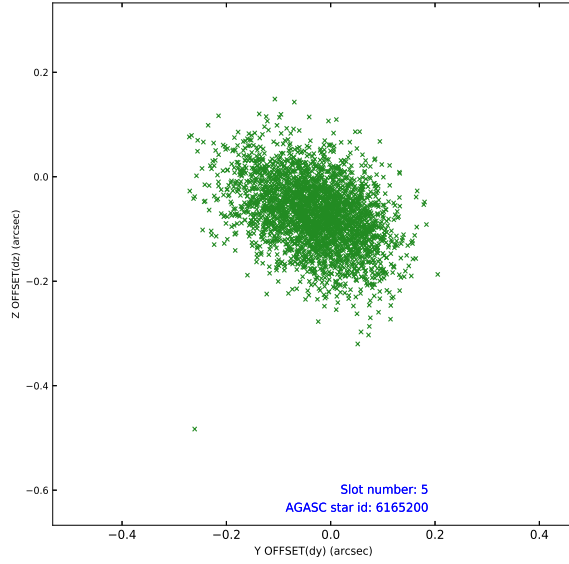
2.4.1 Slot 3



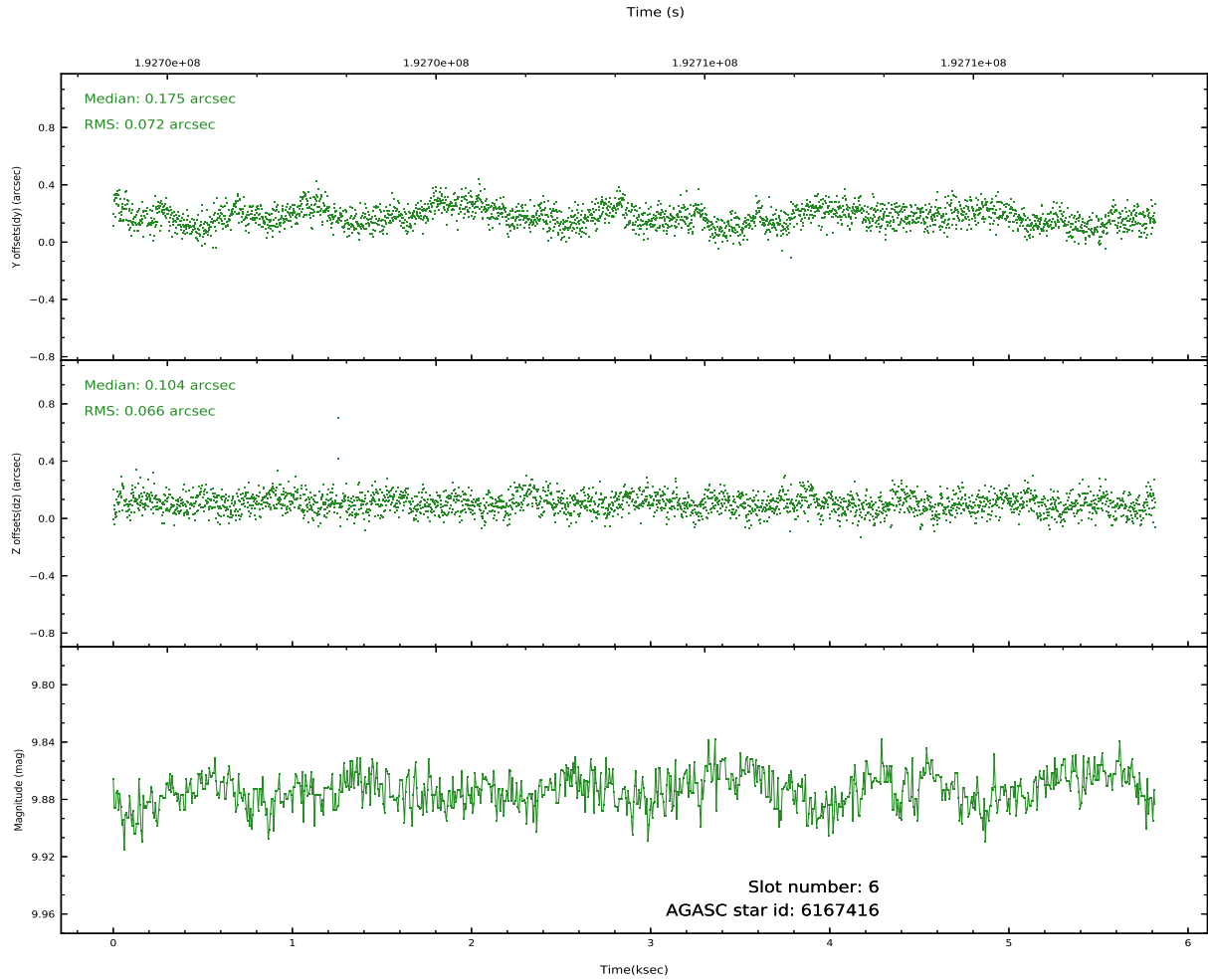
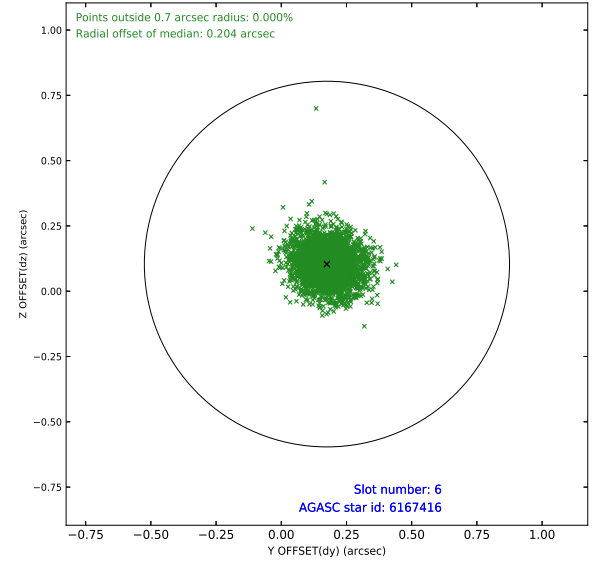
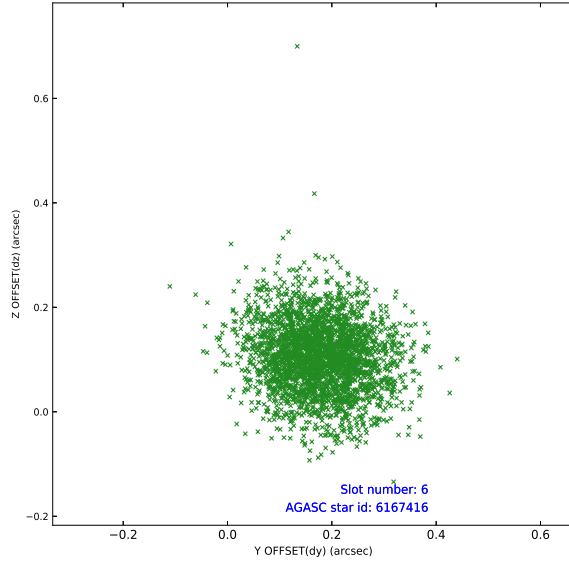
2.4.2 Slot 4



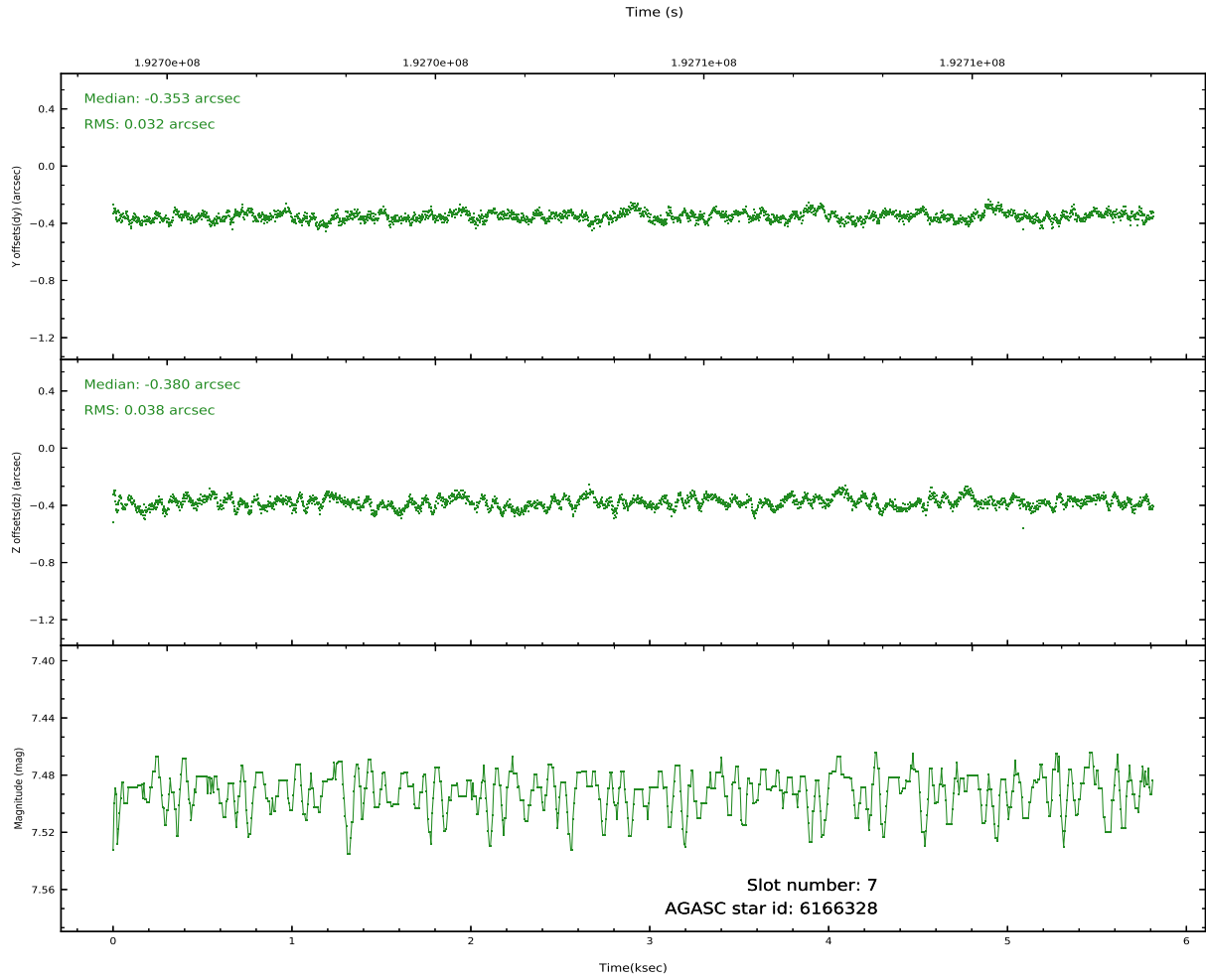
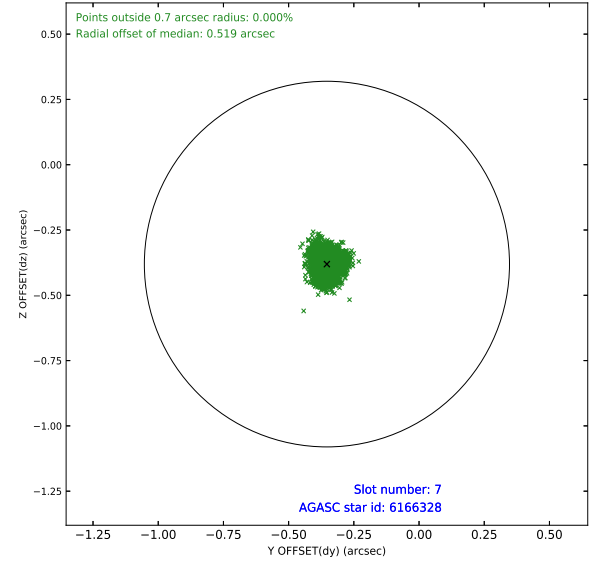
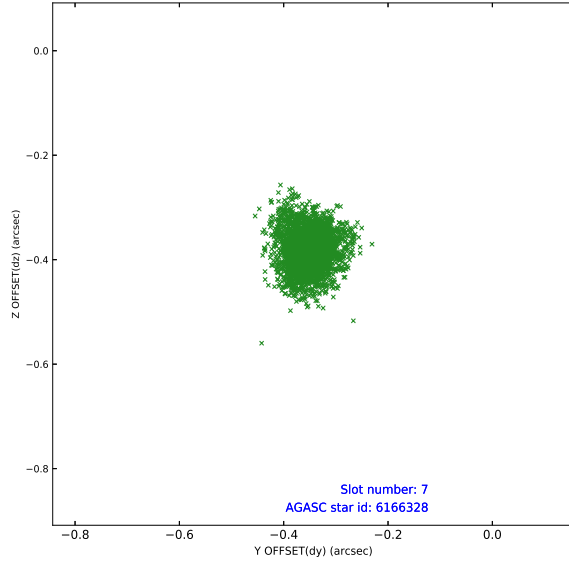
2.4.3 Slot 5



2.4.4 Slot 6

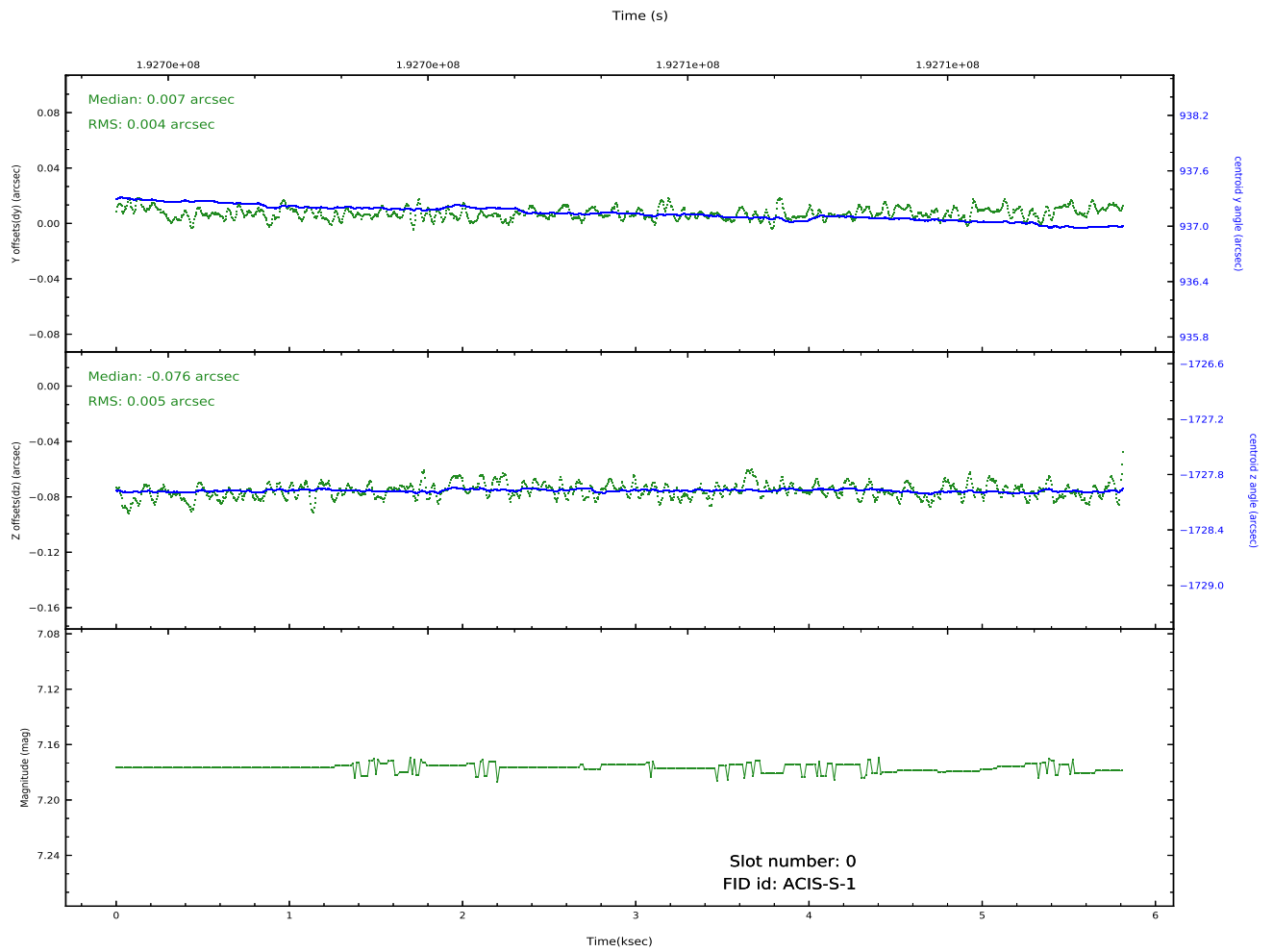
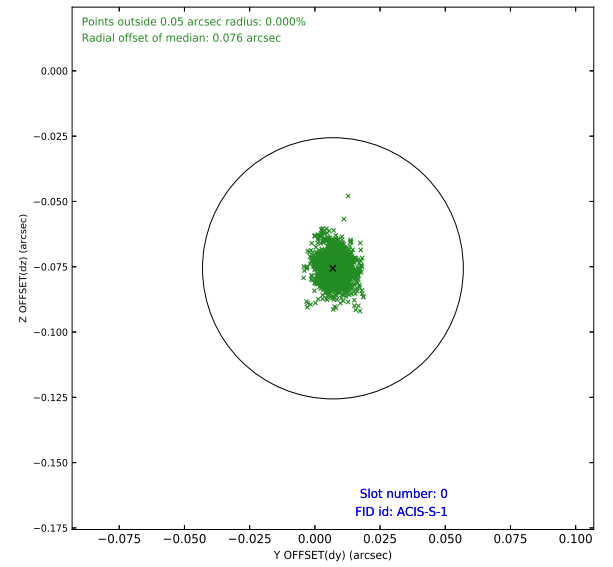
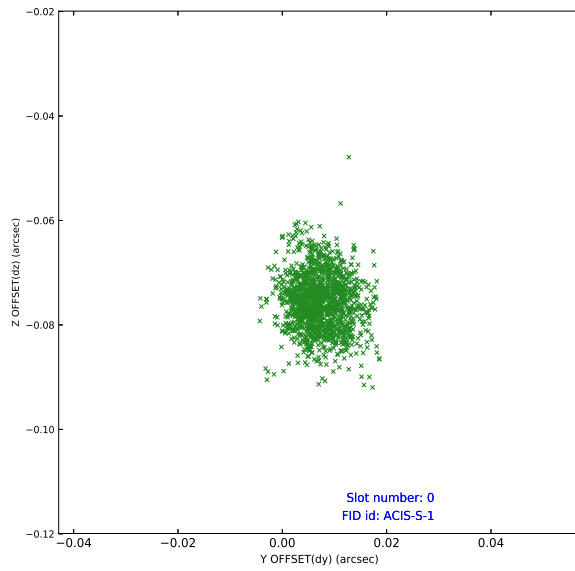


2.4.5 Slot 7

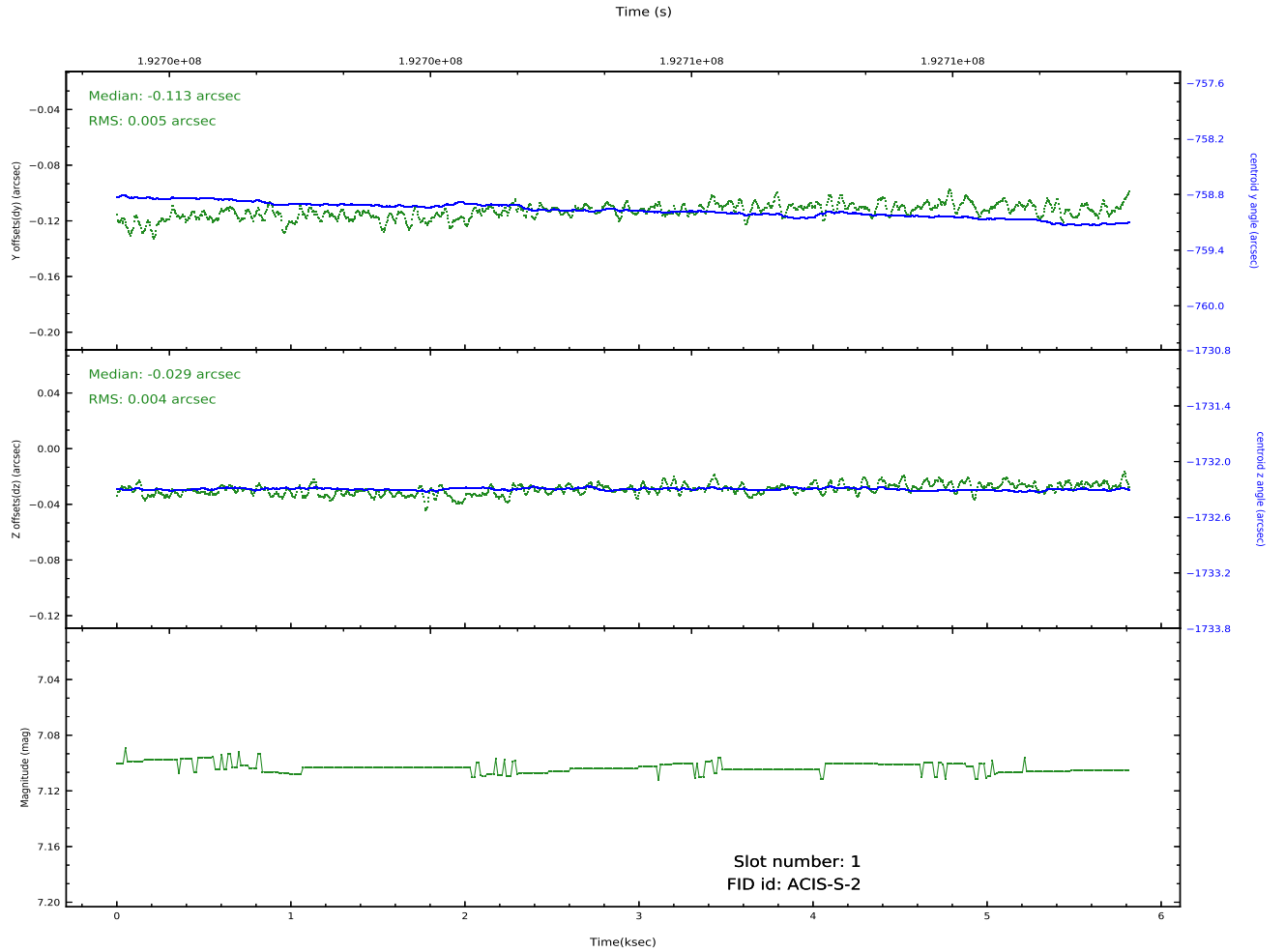
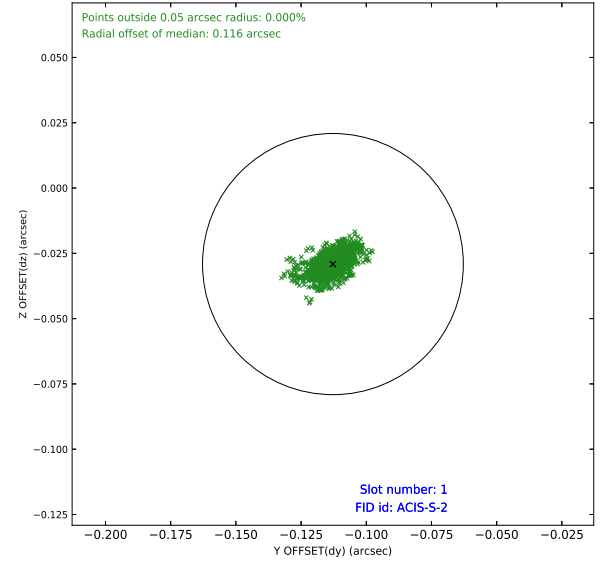
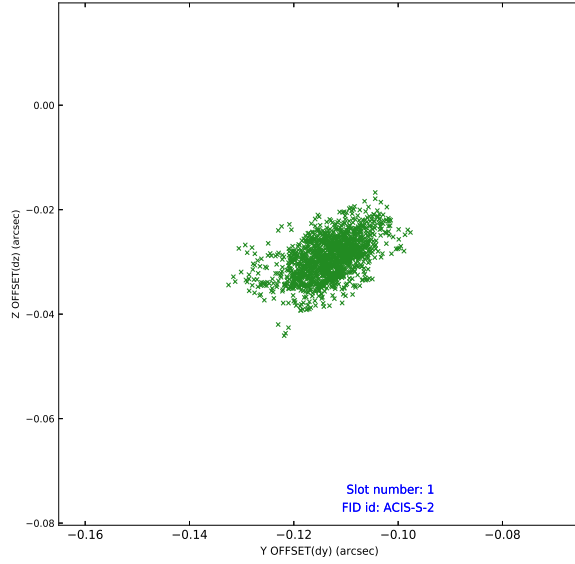


2.5 FID Slots

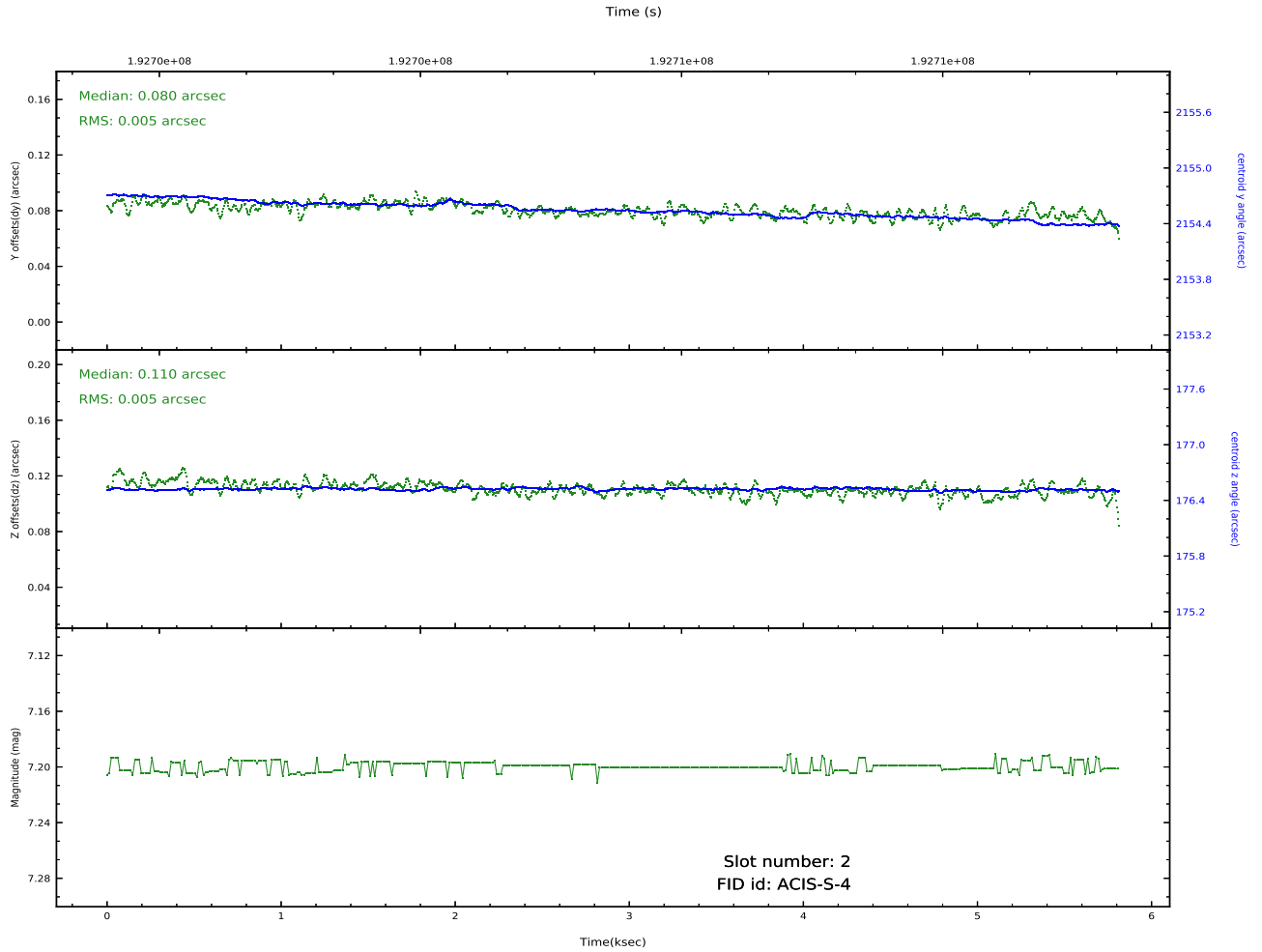
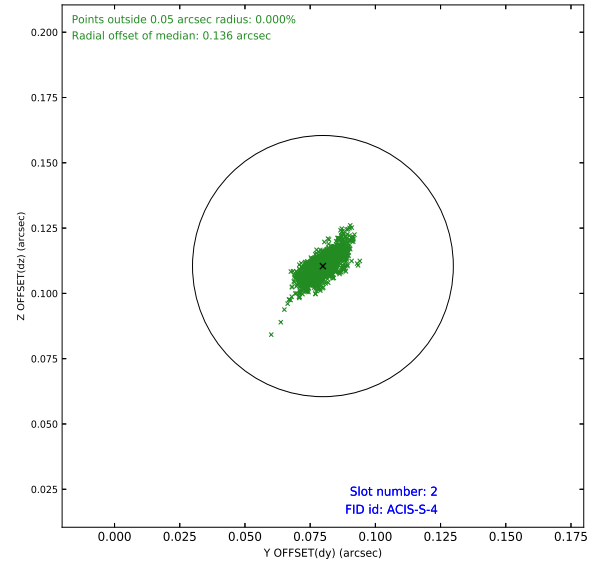
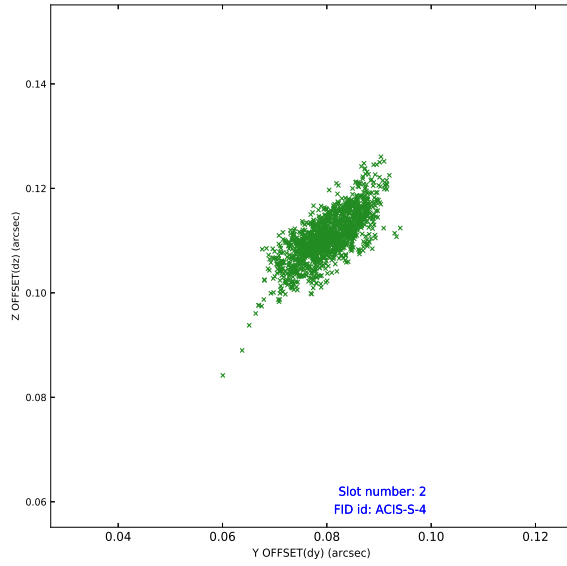
2.5.1 Slot 0



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	5.811

A.2 Comments

Joint proposal with HST.