

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4749 - L2 Version 4
Chandra X-Ray Center

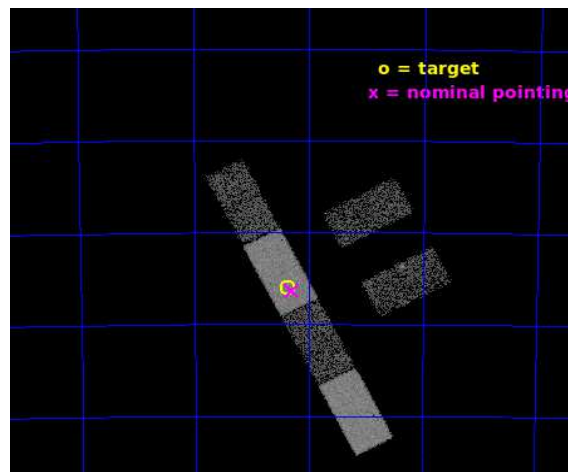
L2 Processing Date : Sep 24 2020

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1 Front

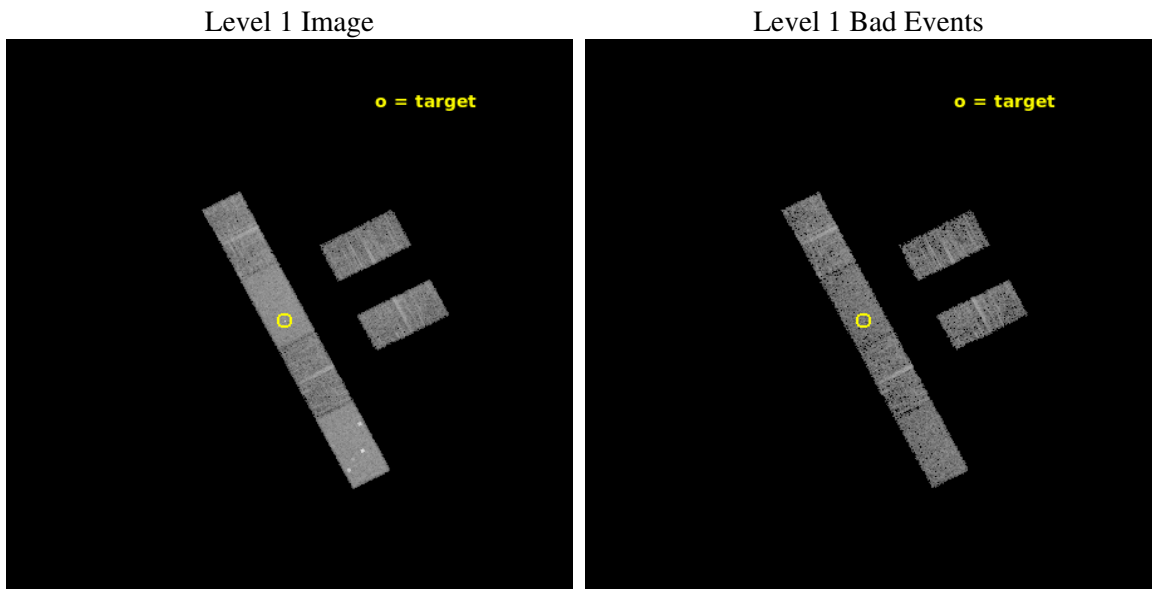
seq_num	600404	Sequence number
obs_id	4749	Observation id
title	Observations of Intermediate Mass Black Hole Candidate Ultra-Luminous X-ray Sources	Proposal title
observer	Jon Miller	Principal investigator
object	NGC 1313 X-2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.592917	Observer's specified target RA [deg]
dec_targ	-66.601028	Observer's specified target Dec [deg]
ra_nom	49.574193310357	Nominal RA [deg]
dec_nom	-66.605897855475	Nominal Dec [deg]
roll_nom	242.56795439287	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5337.0000353456	Sum of GTIs [s]
livetime	5218.0289747219	Livetime [s]
ontime2	5337.0000353456	Sum of GTIs [s]
ontime3	5337.0000353456	Sum of GTIs [s]
ontime5	5337.0000353456	Sum of GTIs [s]
ontime6	5337.0000353456	Sum of GTIs [s]
ontime7	5337.0000353456	Sum of GTIs [s]
ontime8	5337.0000353456	Sum of GTIs [s]
l2events	44331	Number of level 2 events



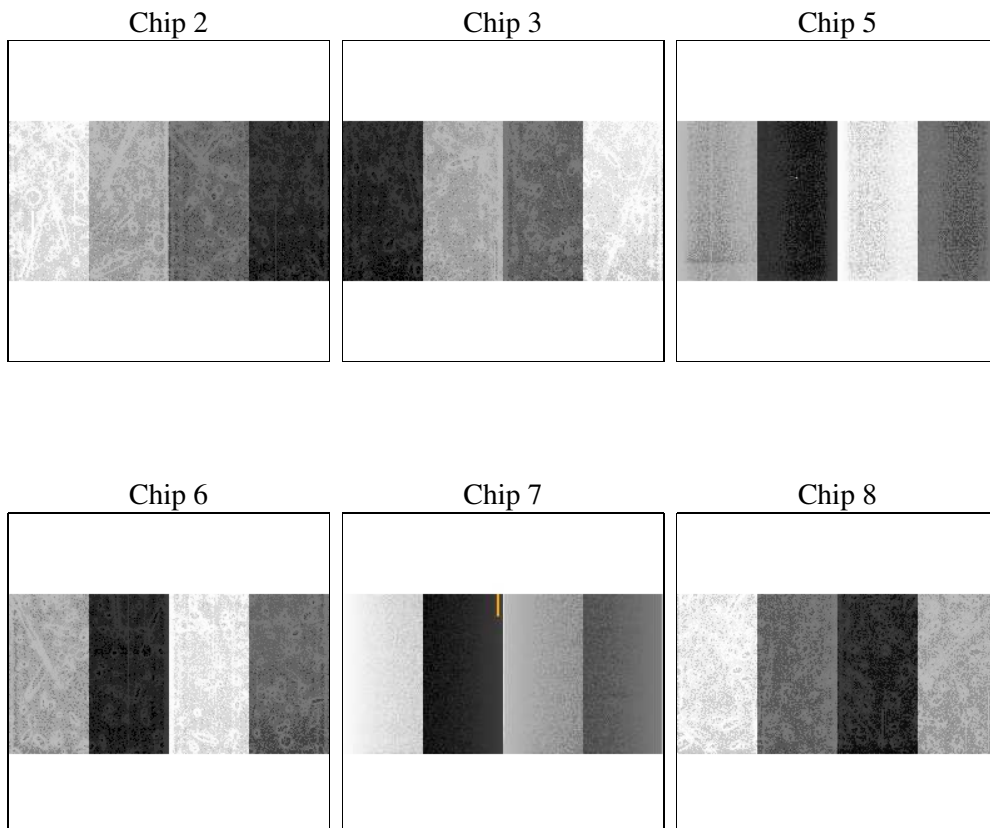
2 OBI

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	5337.0000353456	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	5337.0000353456	Sum of GTIs [s]
date	2020-09-24T18:32:03	Date and time of file creation	ontime3	5337.0000353456	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5337.0000353456	Sum of GTIs [s]
			ontime6	5337.0000353456	Sum of GTIs [s]
			ontime7	5337.0000353456	Sum of GTIs [s]
			ontime8	5337.0000353456	Sum of GTIs [s]
			l1events	154597	Number of level 1 events

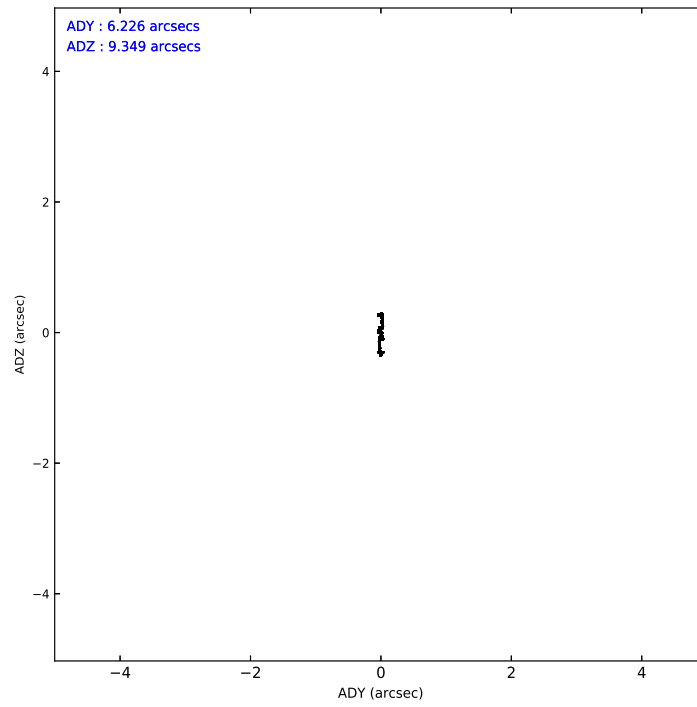
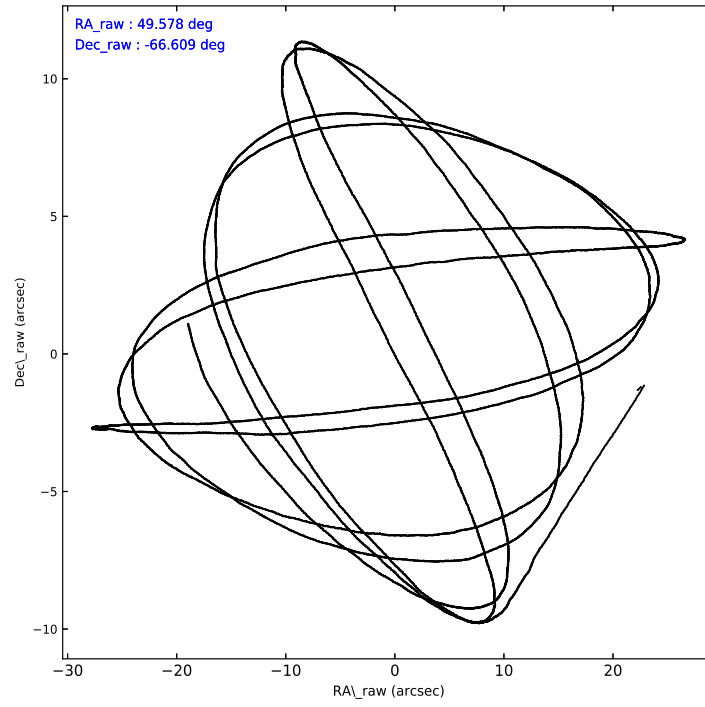
2.1.4 Events

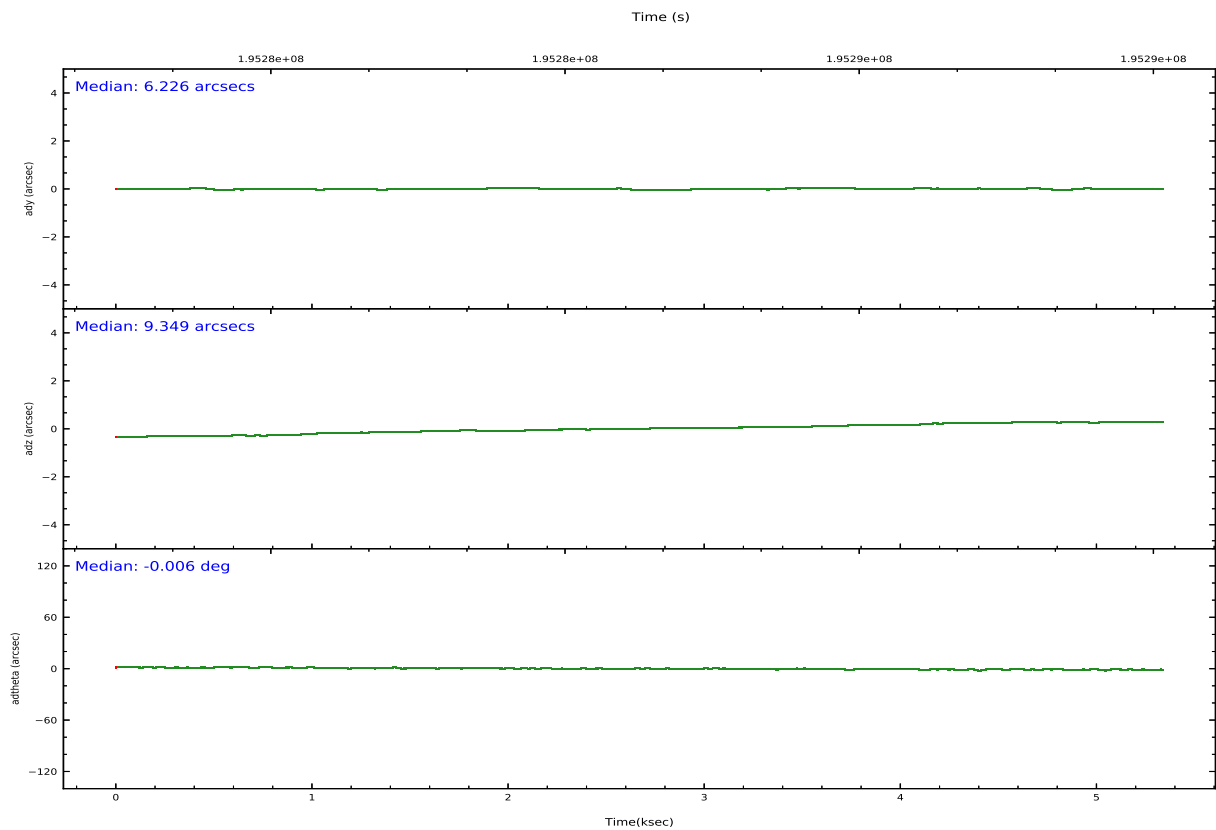
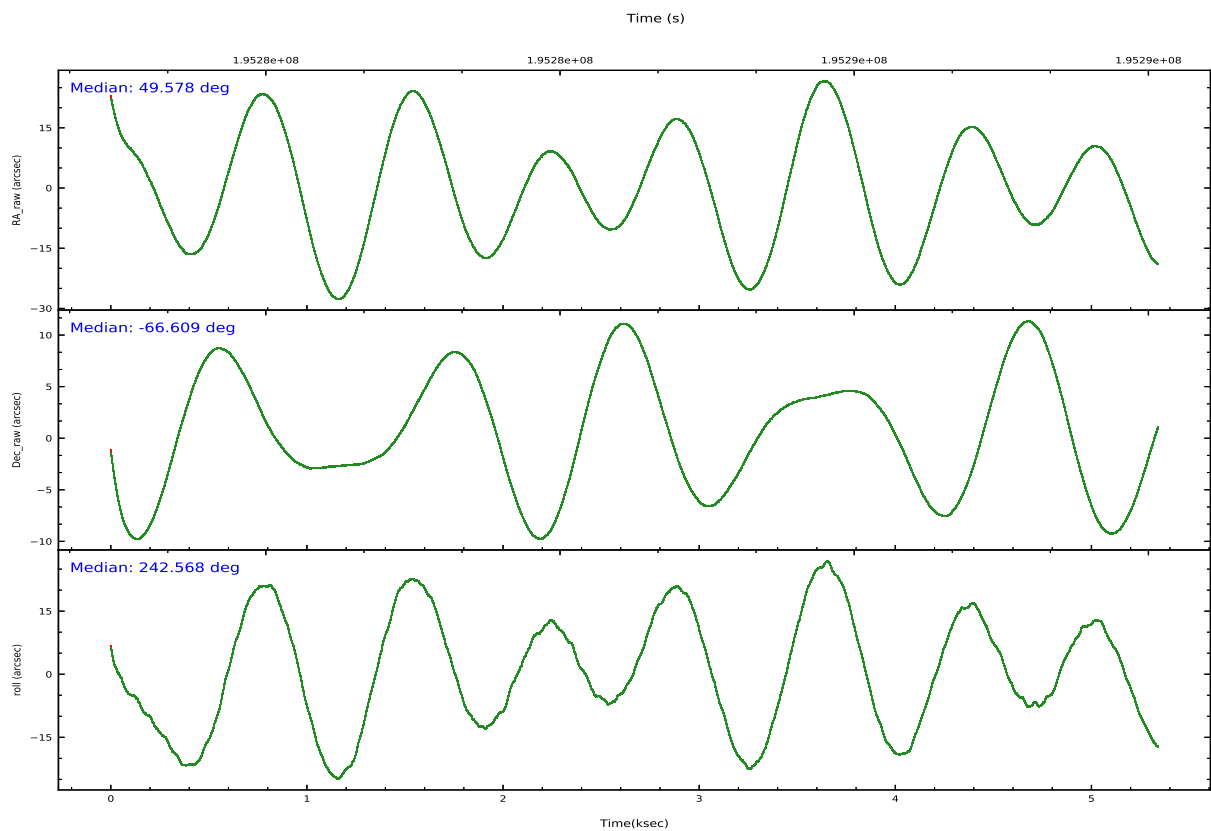
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19810	18270	37922	19999	33125	25471	grade 0 events	1177	1001	5429	1300	2001	1965
rejected events	17266	16036	15903	17227	15331	19965		5%	5%	14%	6%	6%	7%
rejected %	87%	87%	41%	86%	46%	78%	grade 1 events	14	4	71	2	27	13
								0%	0%	0%	0%	0%	0%
							grade 2 events	466	399	5895	536	3550	1106
								2%	2%	15%	2%	10%	4%
							grade 3 events	256	256	1032	243	1657	591
								1%	1%	2%	1%	5%	2%
							grade 4 events	296	254	985	289	1570	515
								1%	1%	2%	1%	4%	2%
							grade 5 events	761	787	2185	888	2481	1110
								3%	4%	5%	4%	7%	4%
							grade 6 events	371	350	8900	432	9163	1369
								1%	1%	23%	2%	27%	5%
							grade 7 events	16469	15219	13425	16309	12676	18802
								83%	83%	35%	81%	38%	73%

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	49.574081	49.574193310357	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-66.581522	-66.60589785547501	Subarray start row	257	257
[deg] Pointing Roll	242.404301	242.56795439287	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	195282550.184000	195281512.95919			
Observation start date	2004-03-10T05:08:06	2004-03-10T04:51:52			
[s] Observation end time (MET)	195287550.184000	195288148.29698			
Observation end date	2004-03-10T06:31:26	2004-03-10T06:42:28			
Read mode	TIMED	TIMED			

2.3 Aspect



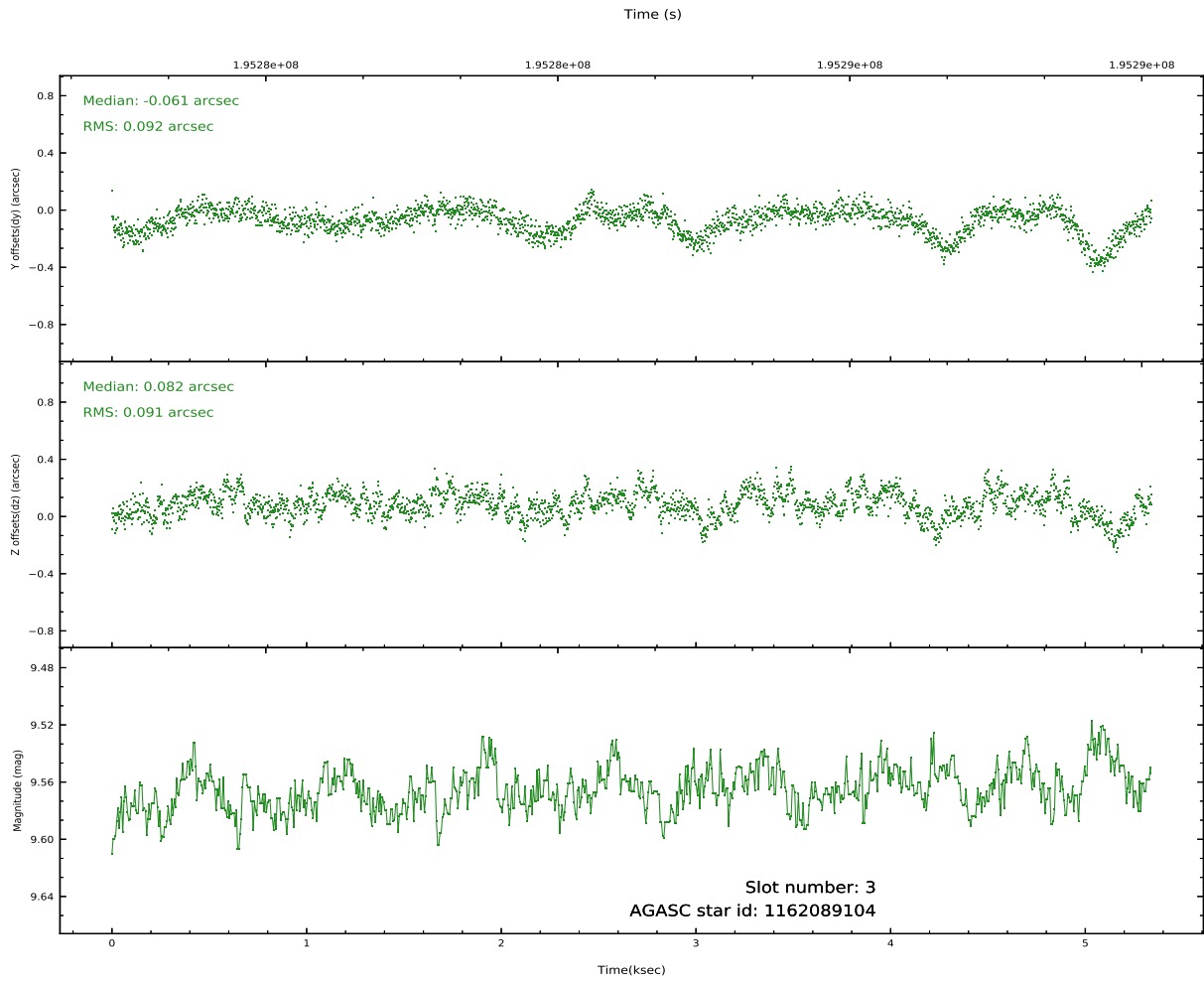
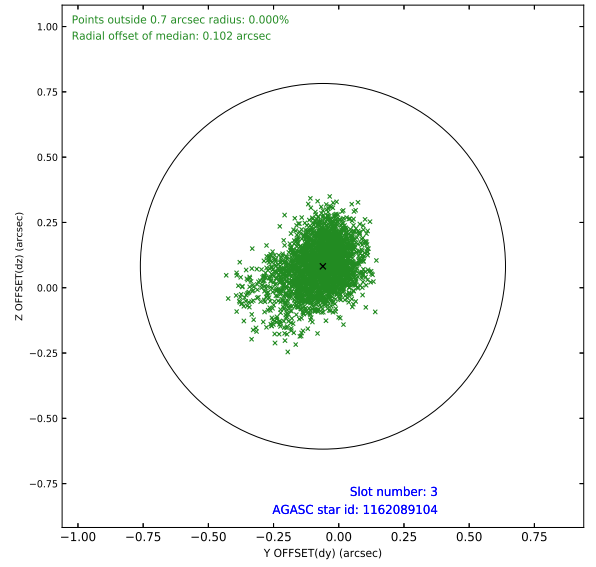
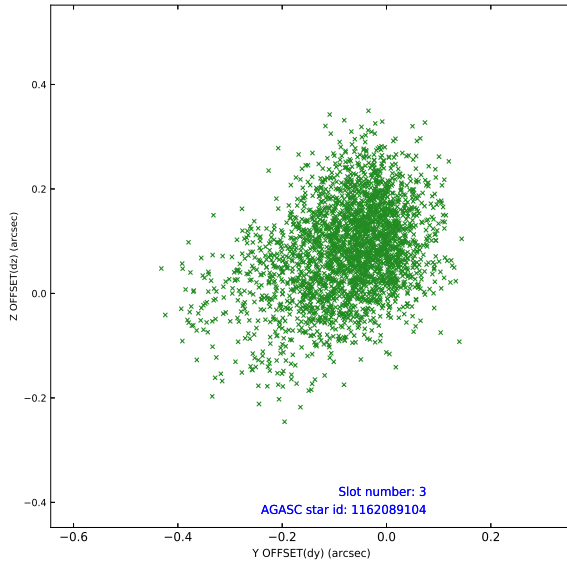


Slot Statistics

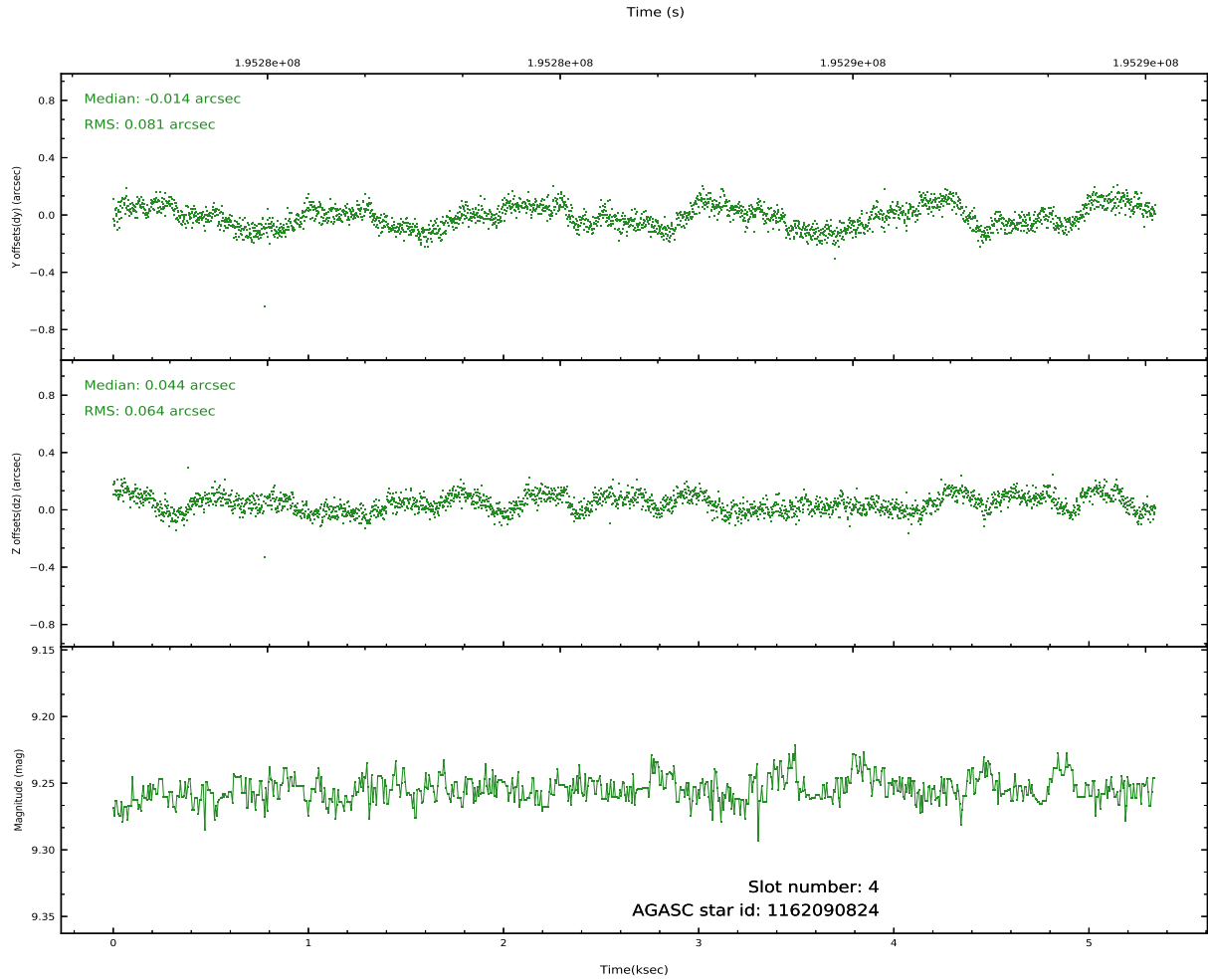
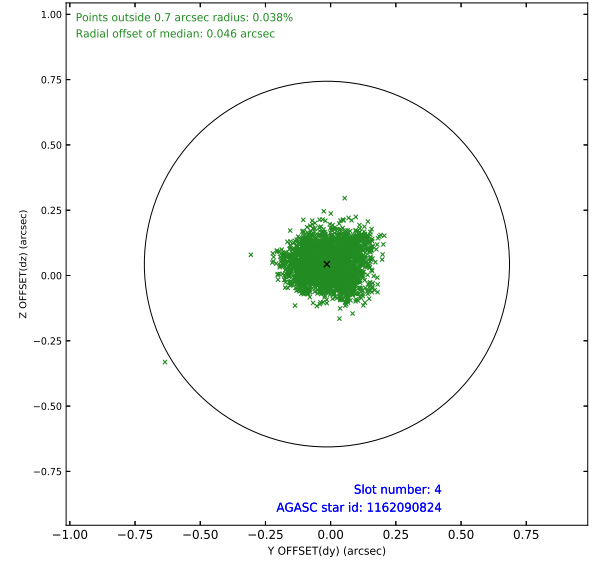
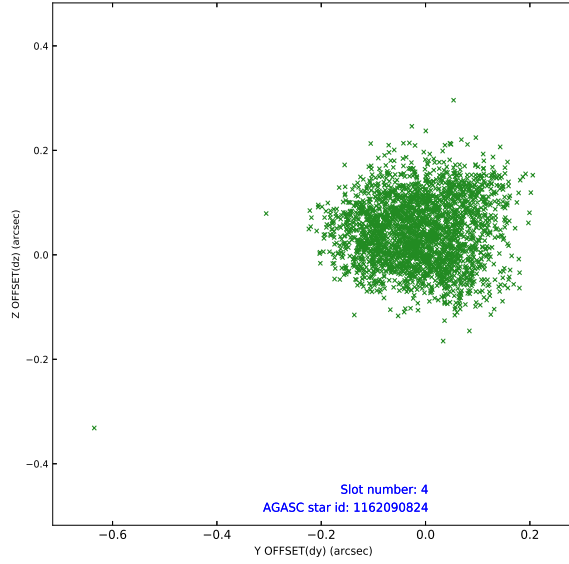
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	1303	1.000	0.004	-0.042	0.010	0.016	0.000000	0.000000	937.09	-1726
1	FID		ACIS-S-4	7.20	1303	1.000	0.104	0.031	0.007	0.012	0.000000	0.000000	2155.21	176
2	FID		ACIS-S-5	7.23	1302	1.000	-0.135	0.023	0.008	0.014	0.000000	0.000000	-1810.48	171
3	GUIDE	used	1162089104	9.57	2605	1.000	-0.061	0.082	0.130	0.237	48.422126	-66.410699	237.38	-1748
4	GUIDE	used	1162090824	9.26	2605	1.000	-0.014	0.044	0.111	0.171	48.677982	-66.885202	1563.75	-612
5	GUIDE	used	1162094224	9.72	2604	1.000	0.061	-0.063	0.090	0.143	49.638584	-66.701903	342.31	281
6	GUIDE	used	1162095544	10.19	2601	1.000	0.089	-0.096	0.158	0.244	48.846024	-66.171463	-812.04	-1619
7	GUIDE	used	1162088248	7.58	2605	1.000	-0.067	0.036	0.062	0.109	49.751966	-65.888113	-2333.18	-924

2.4 Star Slots

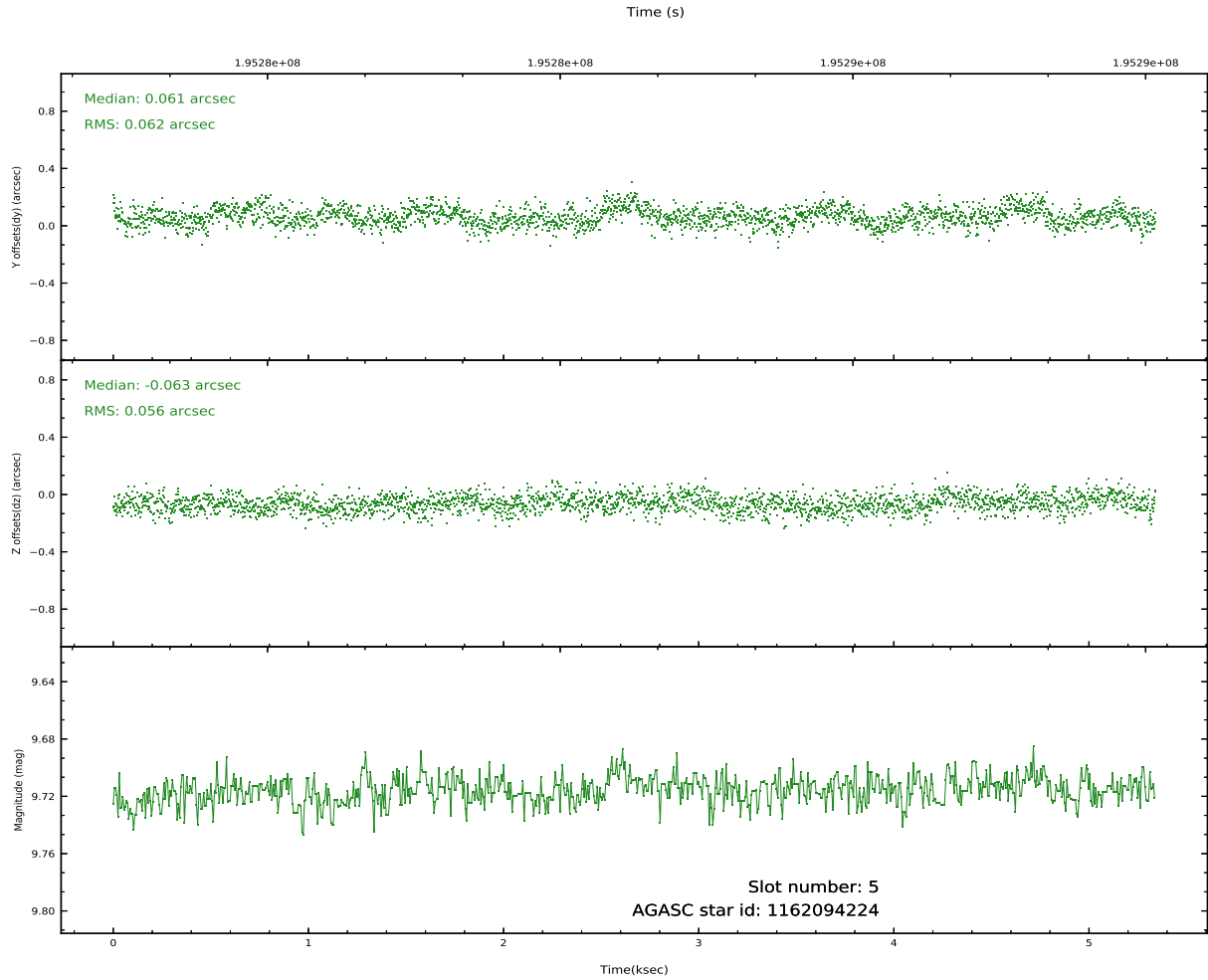
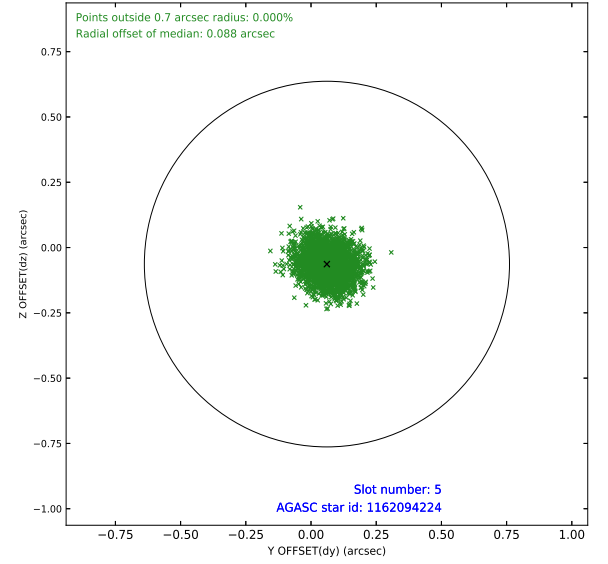
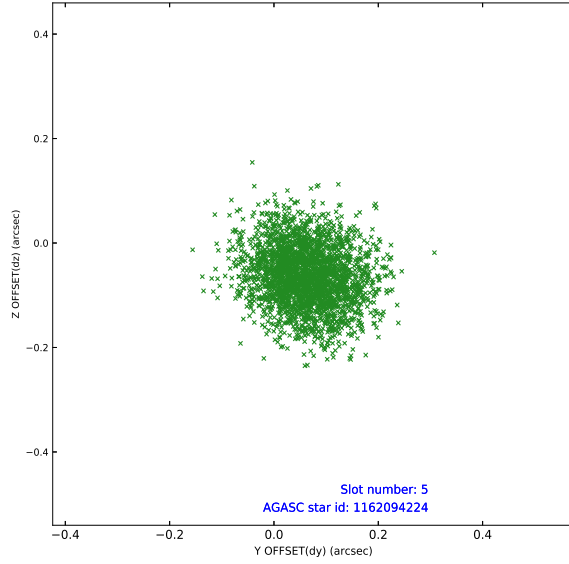
2.4.1 Slot 3



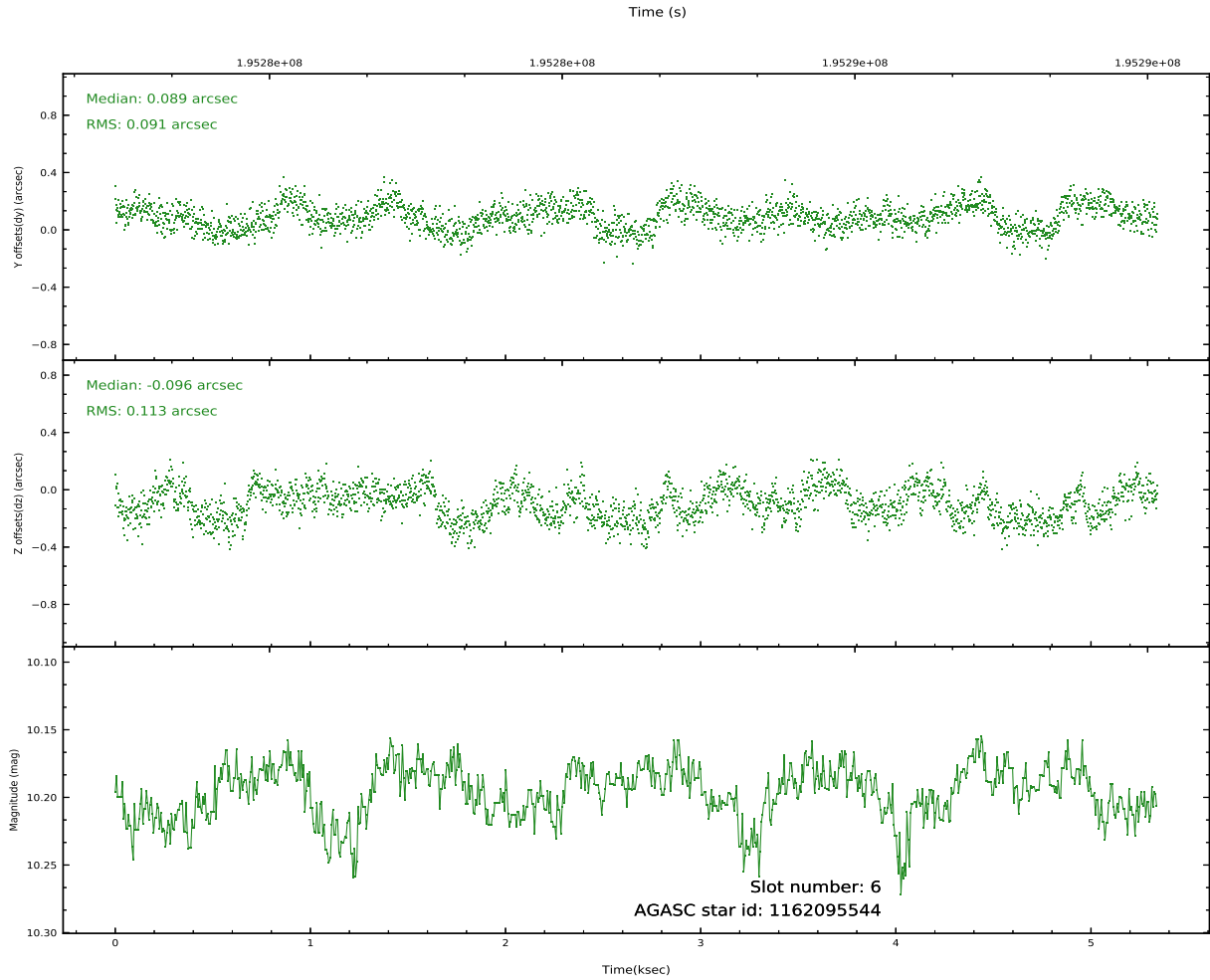
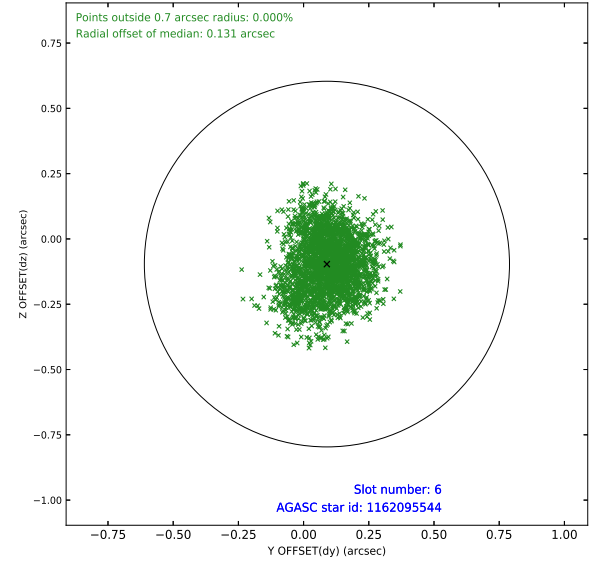
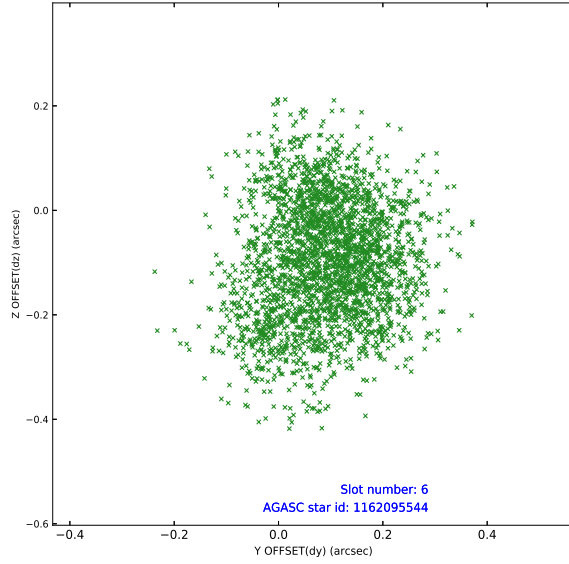
2.4.2 Slot 4



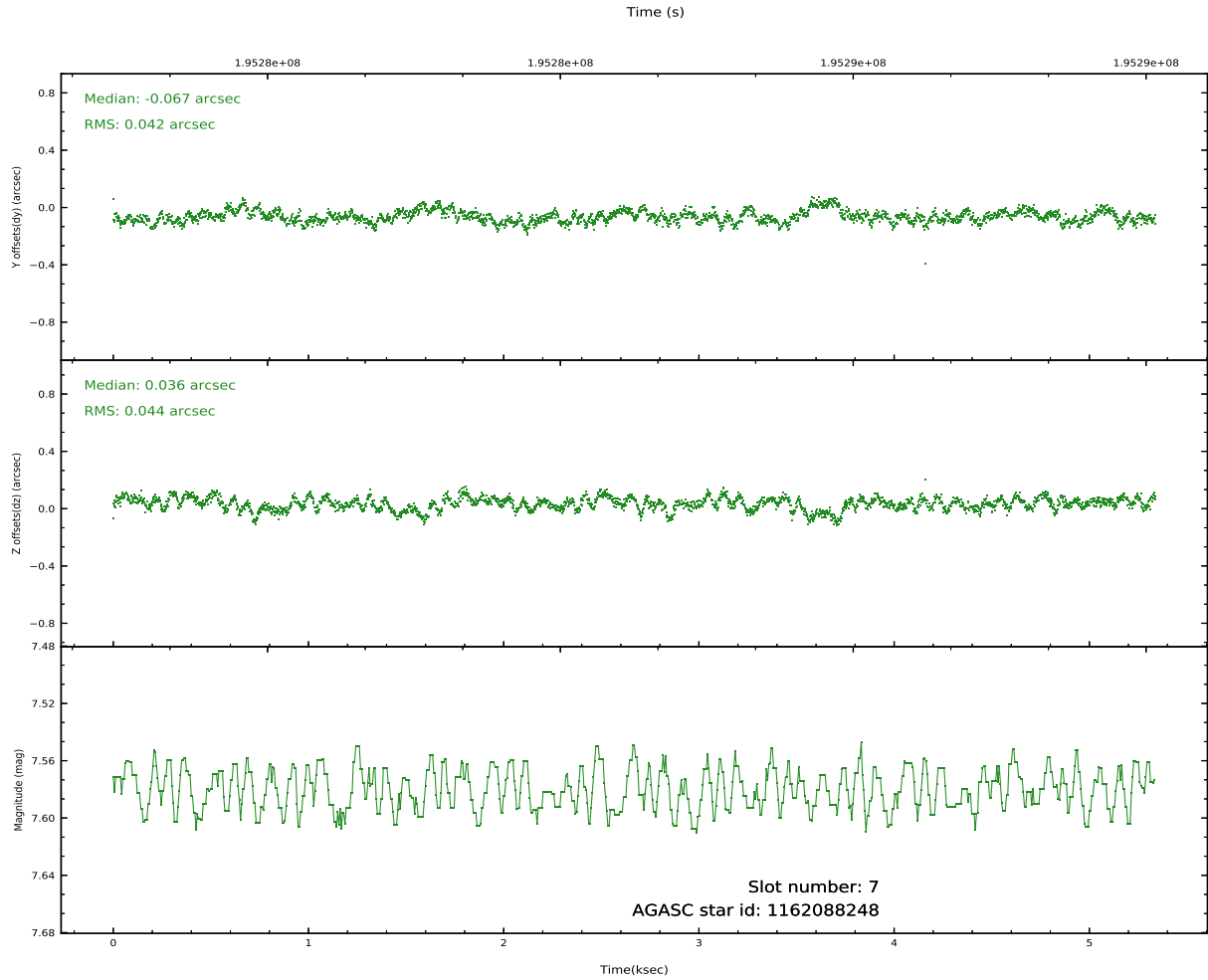
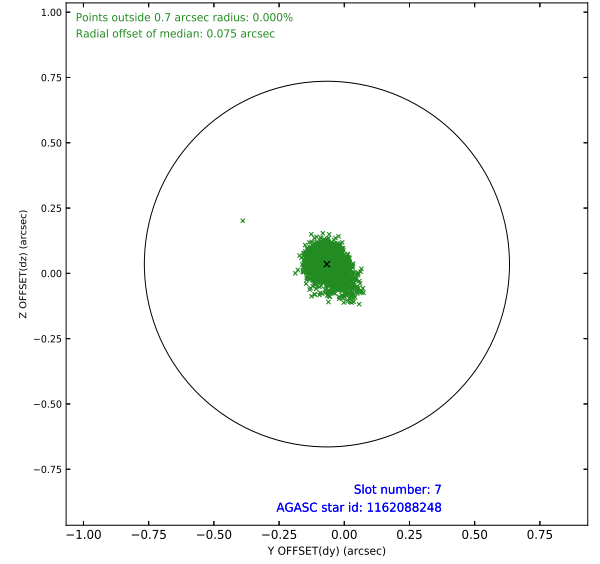
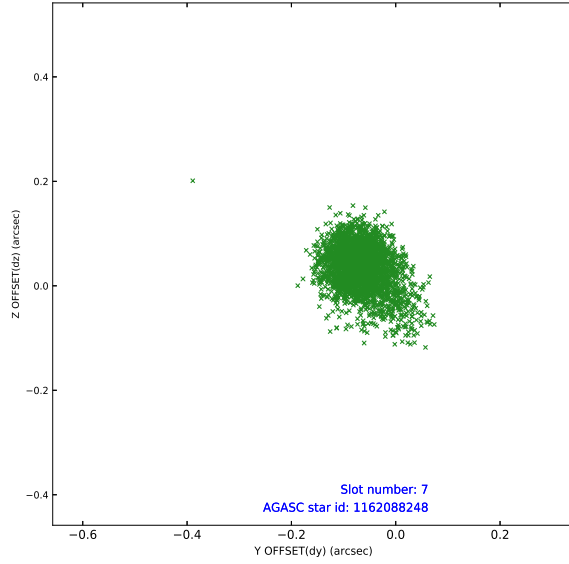
2.4.3 Slot 5



2.4.4 Slot 6

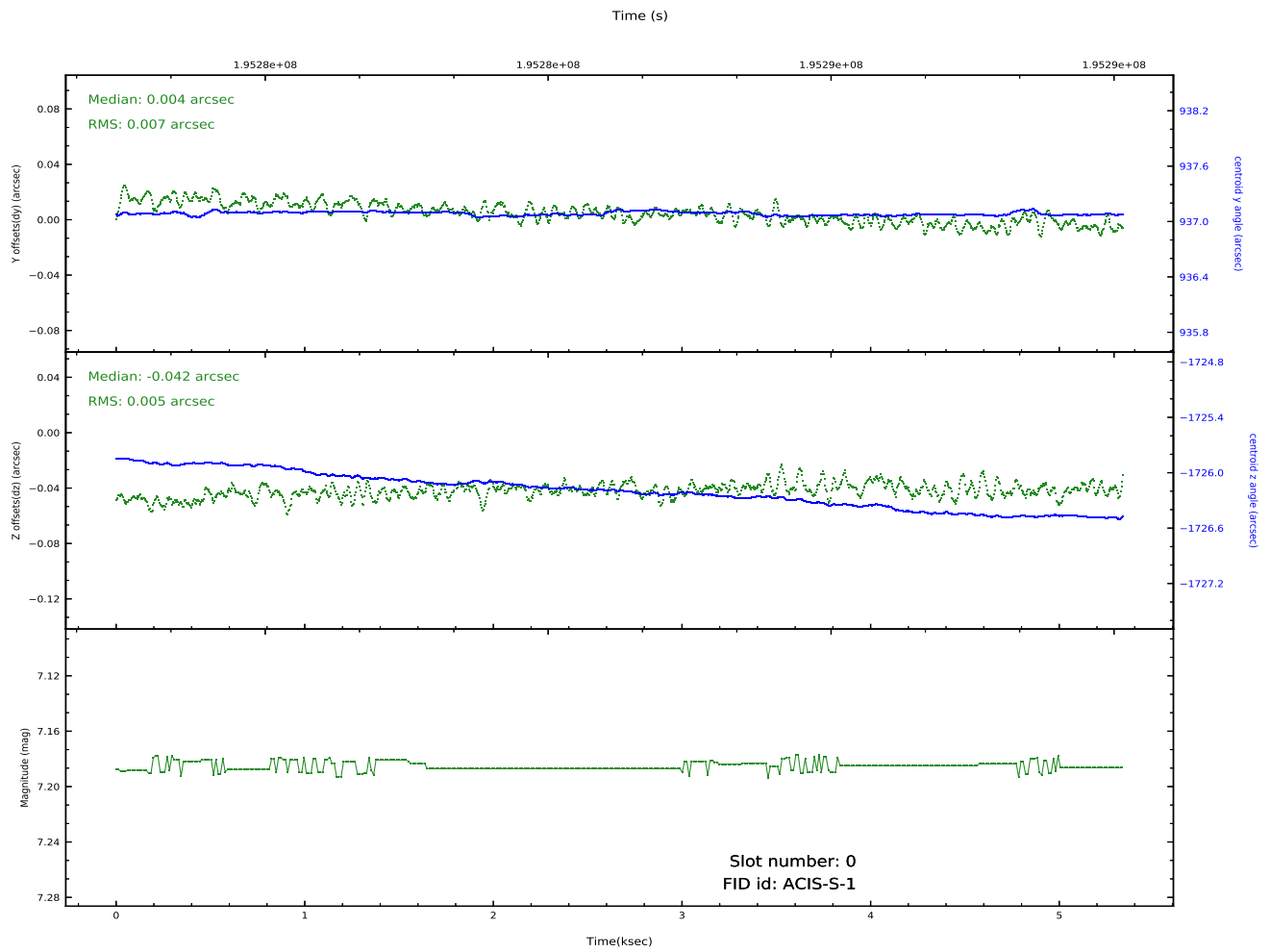
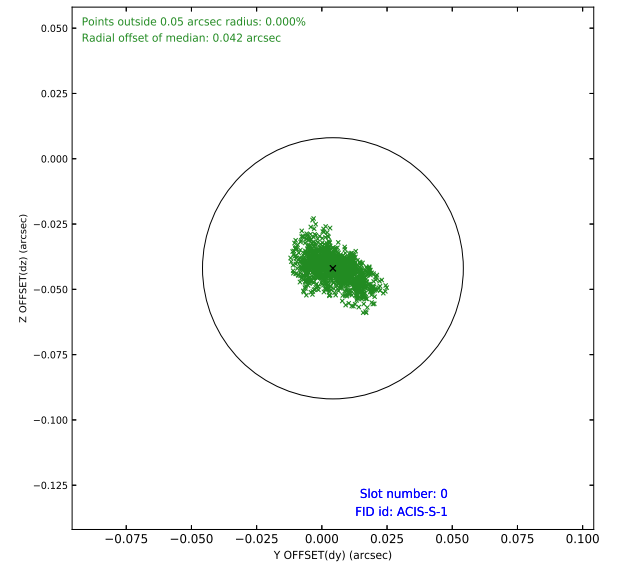
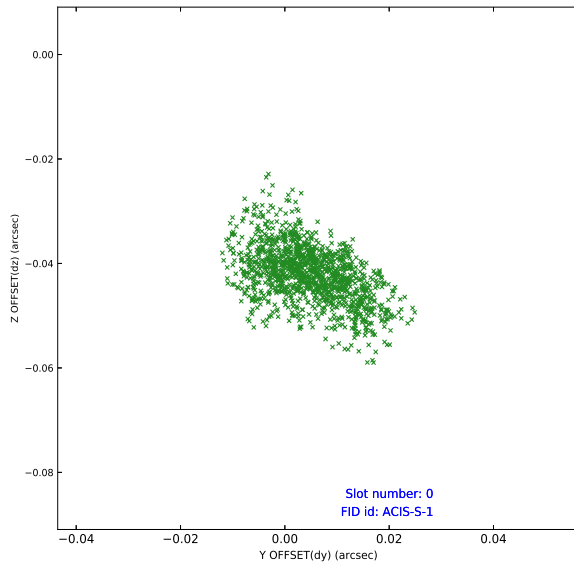


2.4.5 Slot 7

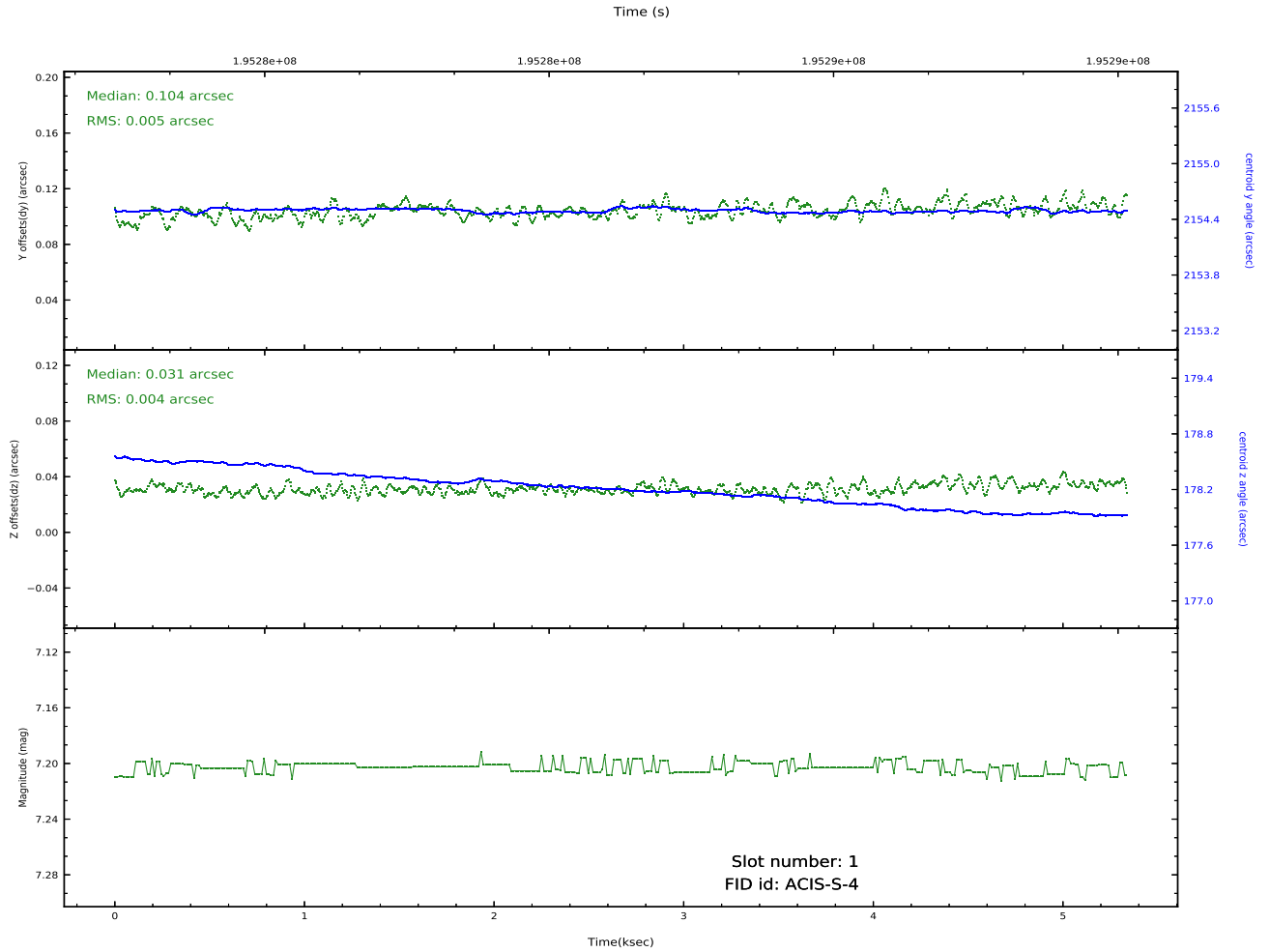
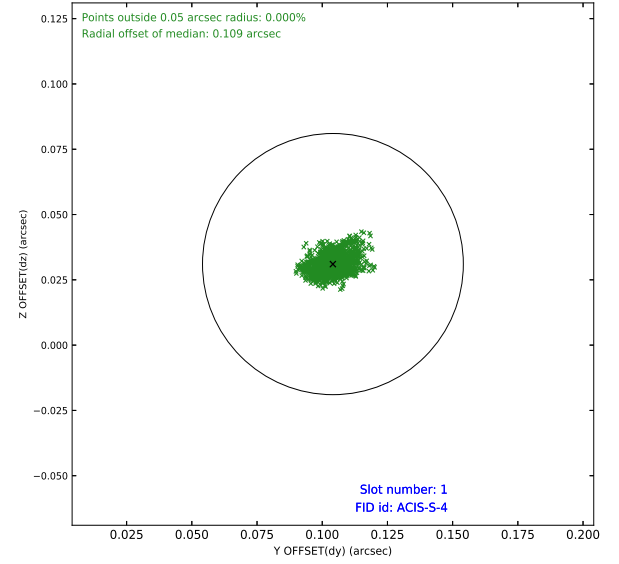
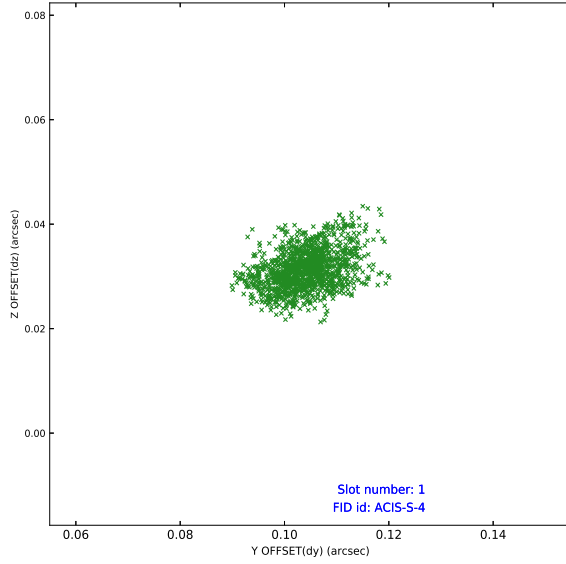


2.5 FID Slots

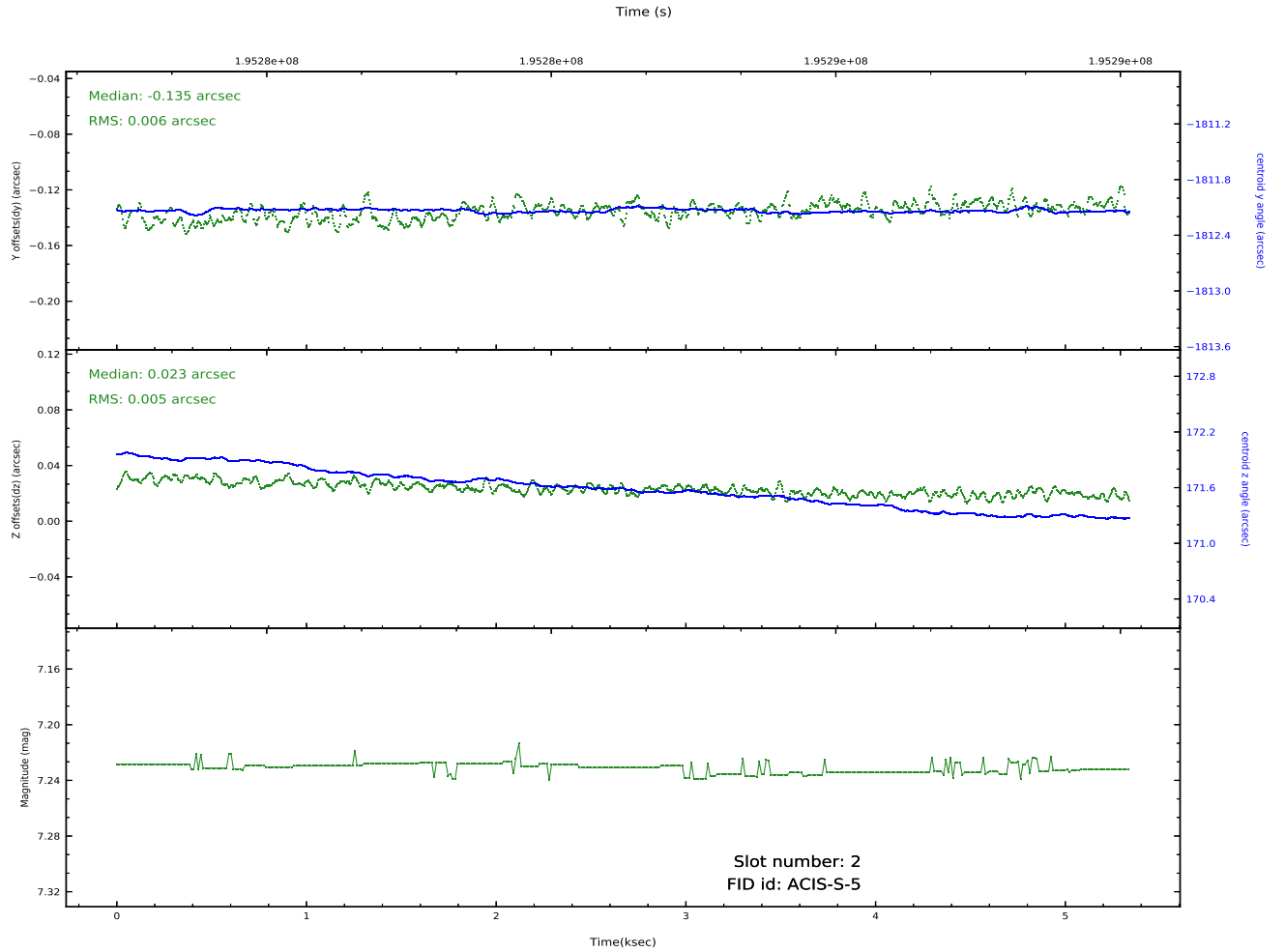
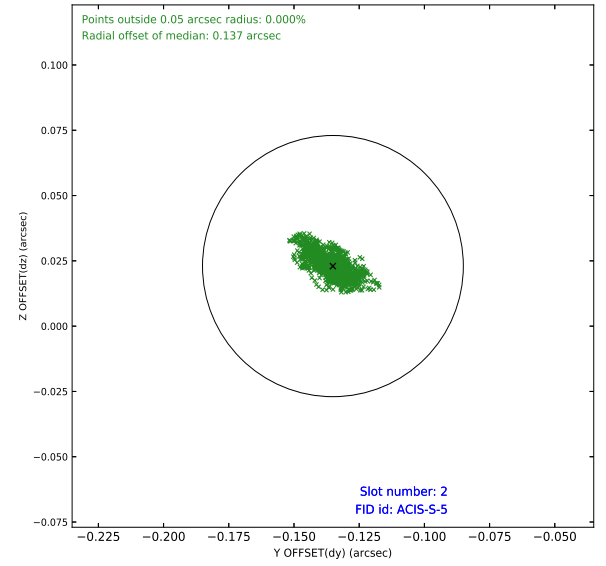
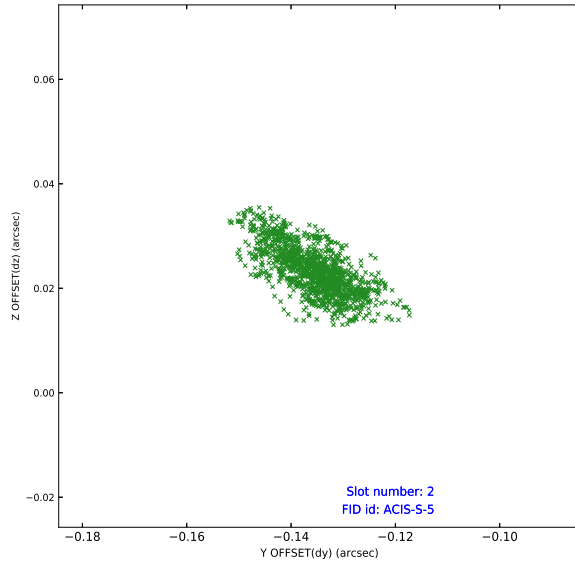
2.5.1 Slot 0



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)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.337

A.2 Comments

Joint proposal with HST.