

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4956 - L2 Version 4
Chandra X-Ray Center

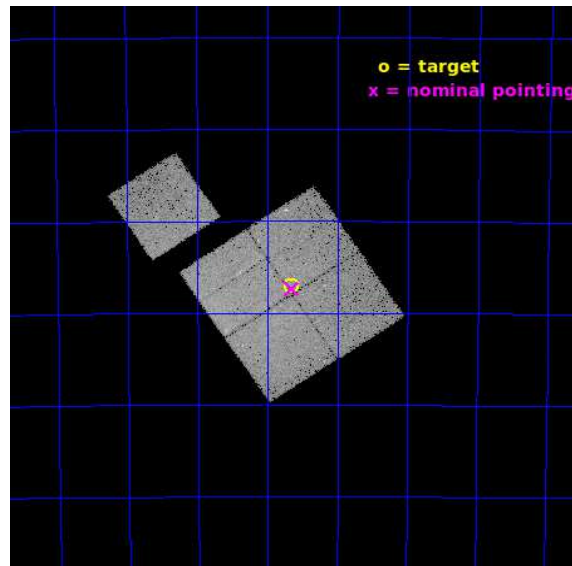
L2 Processing Date : Sep 26 2020

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1 Front

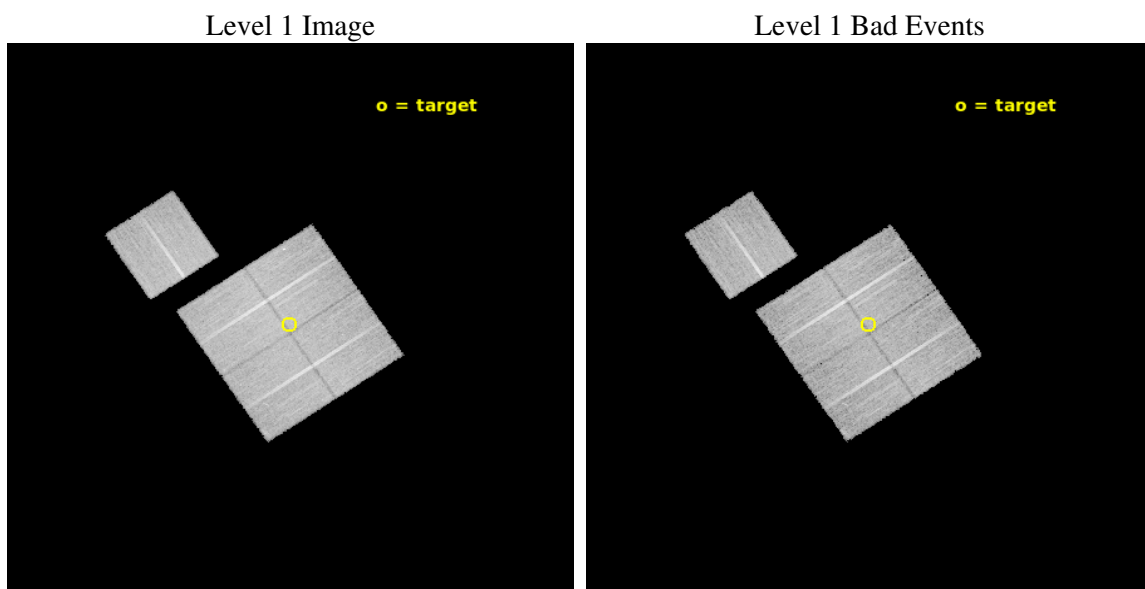
seq_num	800402	Sequence number
obs_id	4956	Observation id
title	The Cluster A3627 -- The Nearest Major Merger	Proposal title
observer	Christine Jones	Principal investigator
object	Abell 3627	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.16429	Observer's specified target RA [deg]
dec_targ	-60.784085	Observer's specified target Dec [deg]
ra_nom	243.16341725471	Nominal RA [deg]
dec_nom	-60.789287019011	Nominal Dec [deg]
roll_nom	326.21151355672	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14703.2999717	Sum of GTIs [s]
livetime	14511.190533157	Livetime [s]
ontime0	14693.877040923	Sum of GTIs [s]
ontime1	14703.2999717	Sum of GTIs [s]
ontime2	14703.2999717	Sum of GTIs [s]
ontime3	14703.2999717	Sum of GTIs [s]
ontime6	14703.2999717	Sum of GTIs [s]
l2events	102155	Number of level 2 events



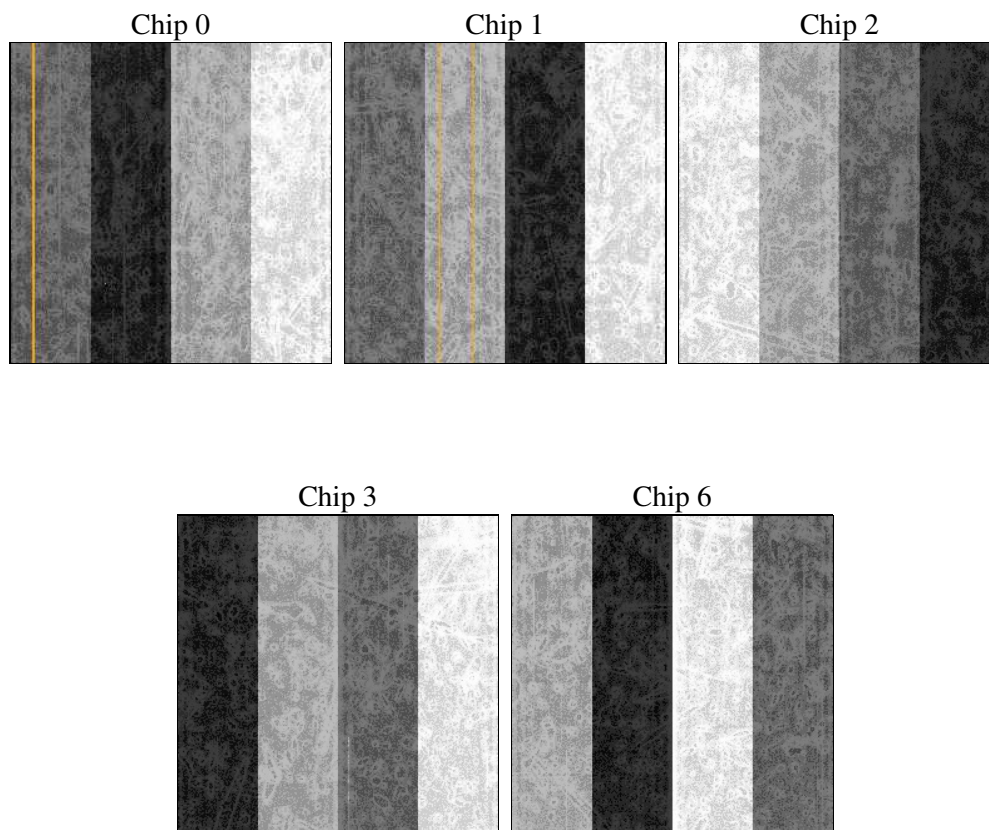
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14526.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14703.2999717	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	14693.877040923	Sum of GTIs [s]
date	2020-09-26T19:46:24	Date and time of file creation	ontime1	14703.2999717	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	14703.2999717	Sum of GTIs [s]
			ontime3	14703.2999717	Sum of GTIs [s]
			ontime6	14703.2999717	Sum of GTIs [s]
			l1events	535444	Number of level 1 events

2.1.4 Events

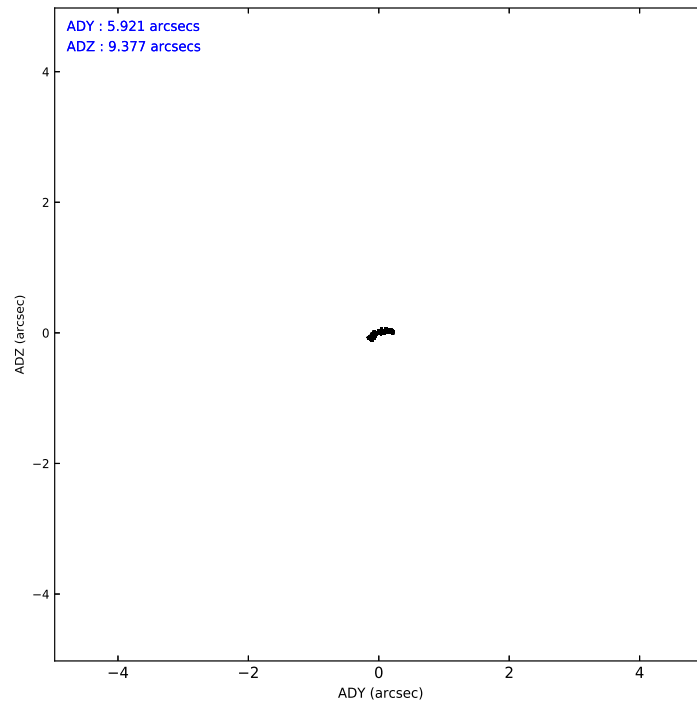
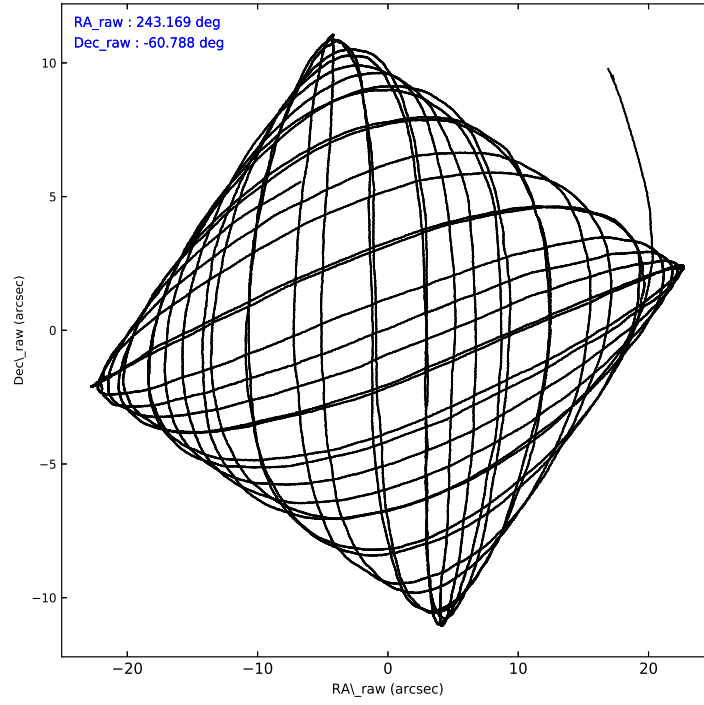
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	104470	101462	119018	107428	103066
rejected events	78833	81912	89129	86910	84314
rejected %	75%	80%	74%	80%	81%

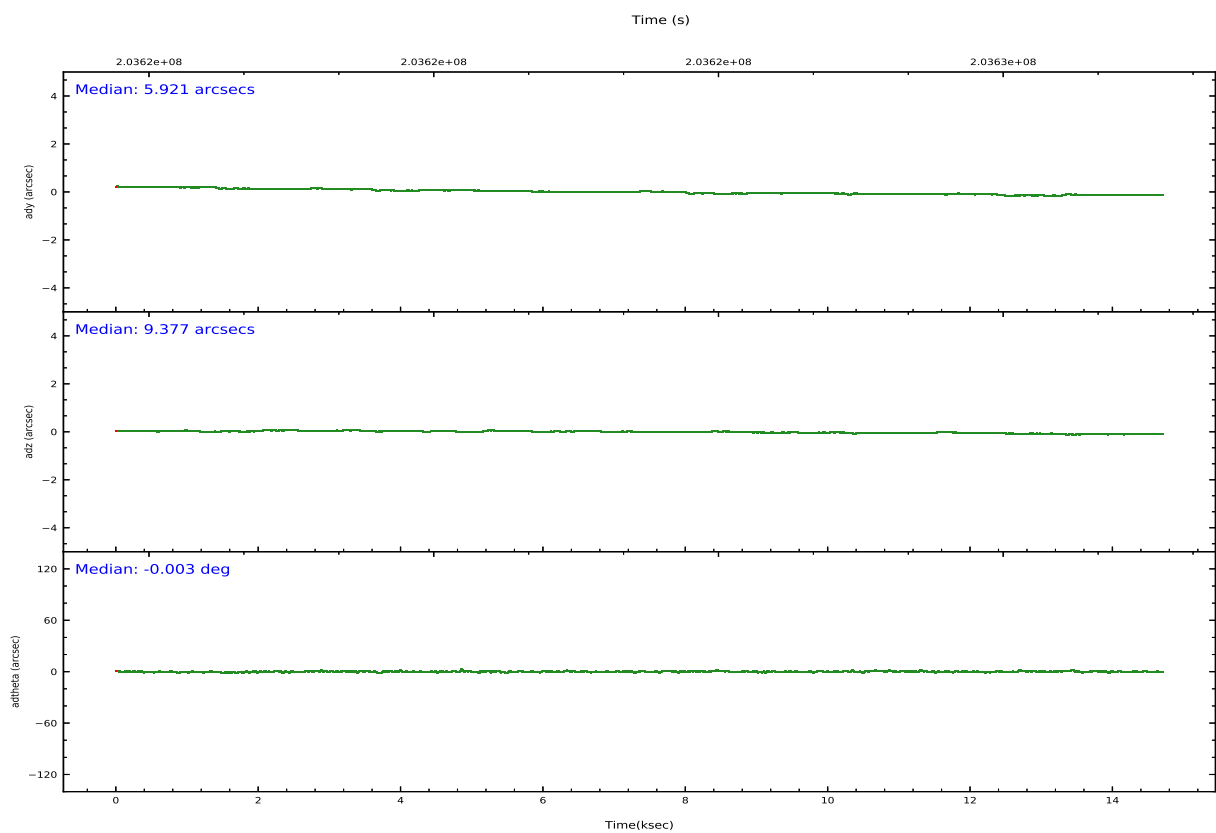
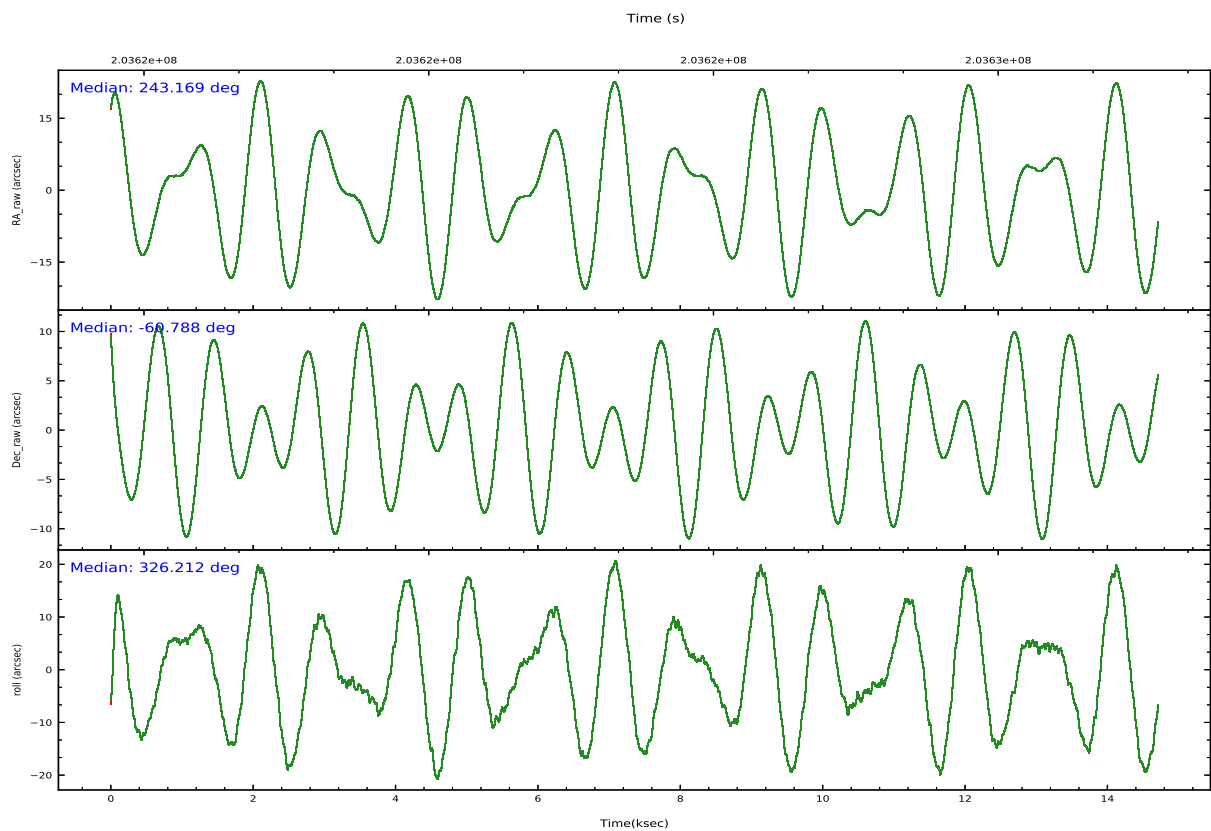
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	16425	11217	19924	12661	11097
	15%	11%	16%	11%	10%
grade 1 events	91	83	132	91	59
	0%	0%	0%	0%	0%
grade 2 events	3932	3176	4380	3188	2879
	3%	3%	3%	2%	2%
grade 3 events	1613	1418	1757	1402	1322
	1%	1%	1%	1%	1%
grade 4 events	1548	1423	1727	1351	1304
	1%	1%	1%	1%	1%
grade 5 events	3339	3516	3121	3555	3735
	3%	3%	2%	3%	3%
grade 6 events	2253	2404	2246	2023	2245
	2%	2%	1%	1%	2%
grade 7 events	75269	78225	85731	83157	80425
	72%	77%	72%	77%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	243.113510	243.16341725471	Subarray requested	NONE	NONE
[deg] Pointing Dec	-60.786260	-60.789287019011	Alternating exposures requested	N	N
[deg] Pointing Roll	325.955680	326.21151355672	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	203615721.184000	203614694.13889			
Observation start date	2004-06-14T15:54:17	2004-06-14T15:38:14			
[s] Observation end time (MET)	203630247.184000	203630381.25208			
Observation end date	2004-06-14T19:56:23	2004-06-14T19:59:41			
Read mode	TIMED	TIMED			

2.3 Aspect



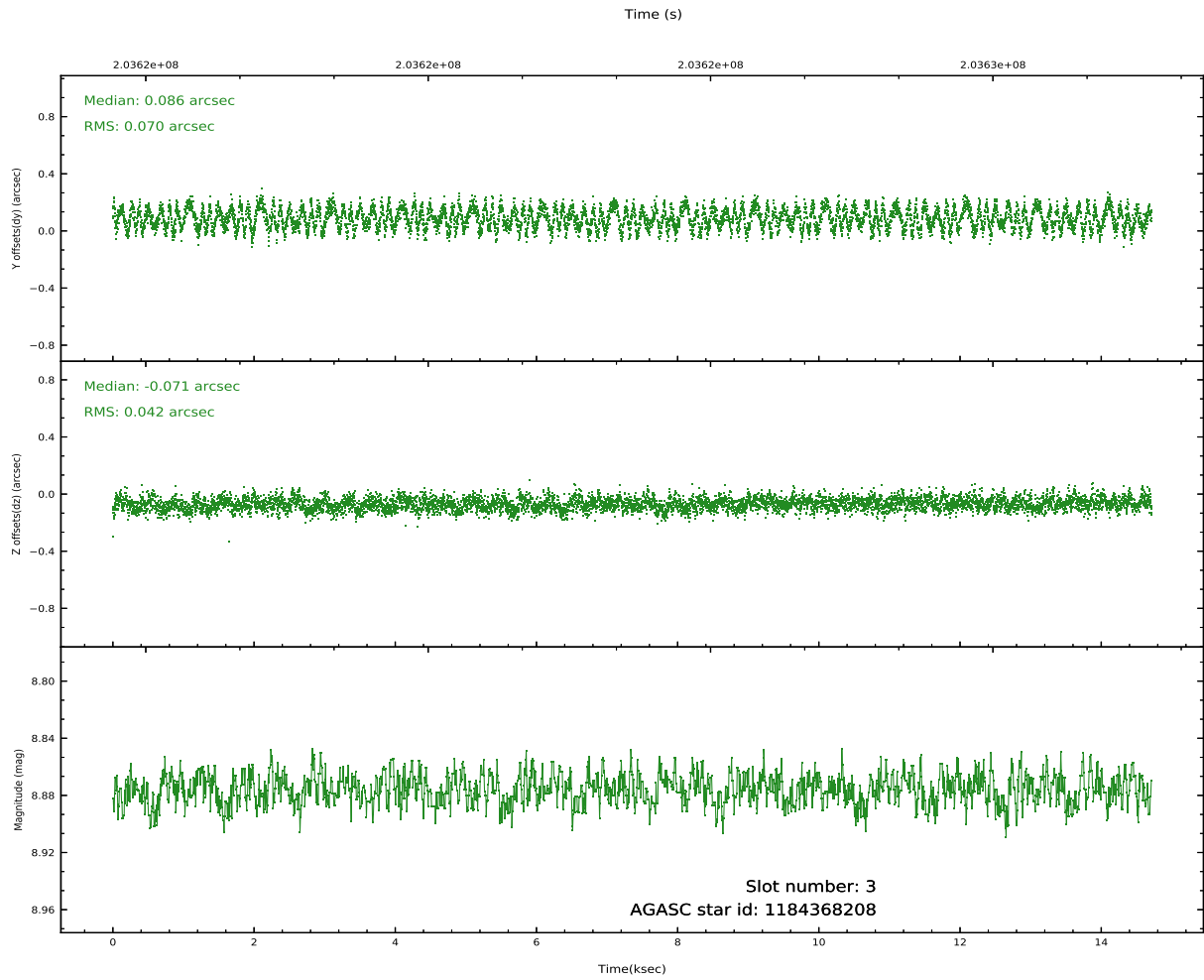
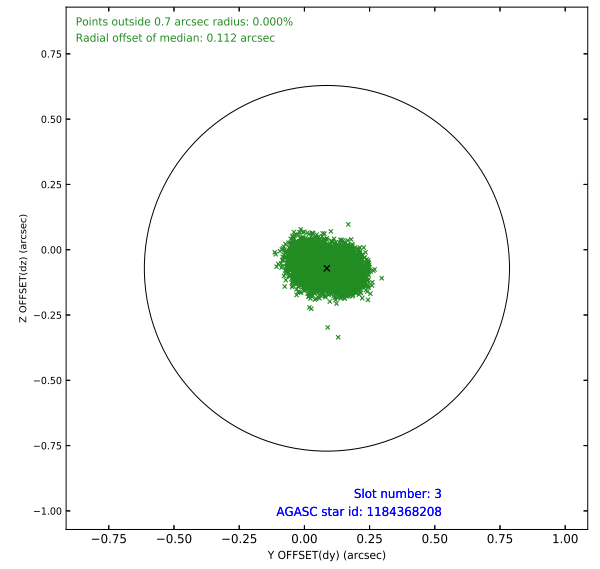
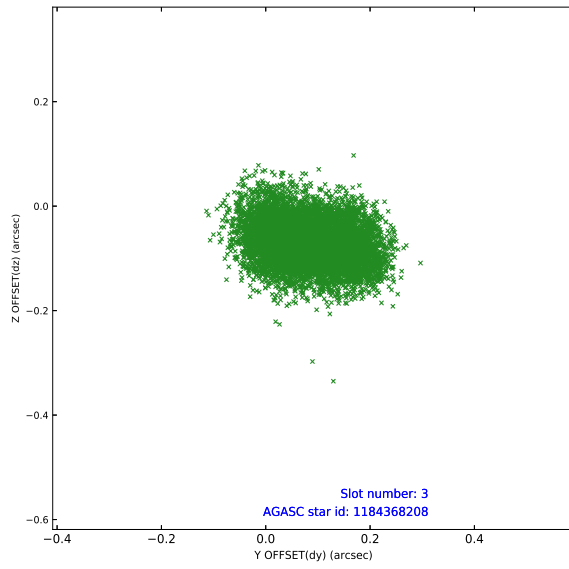


Slot Statistics

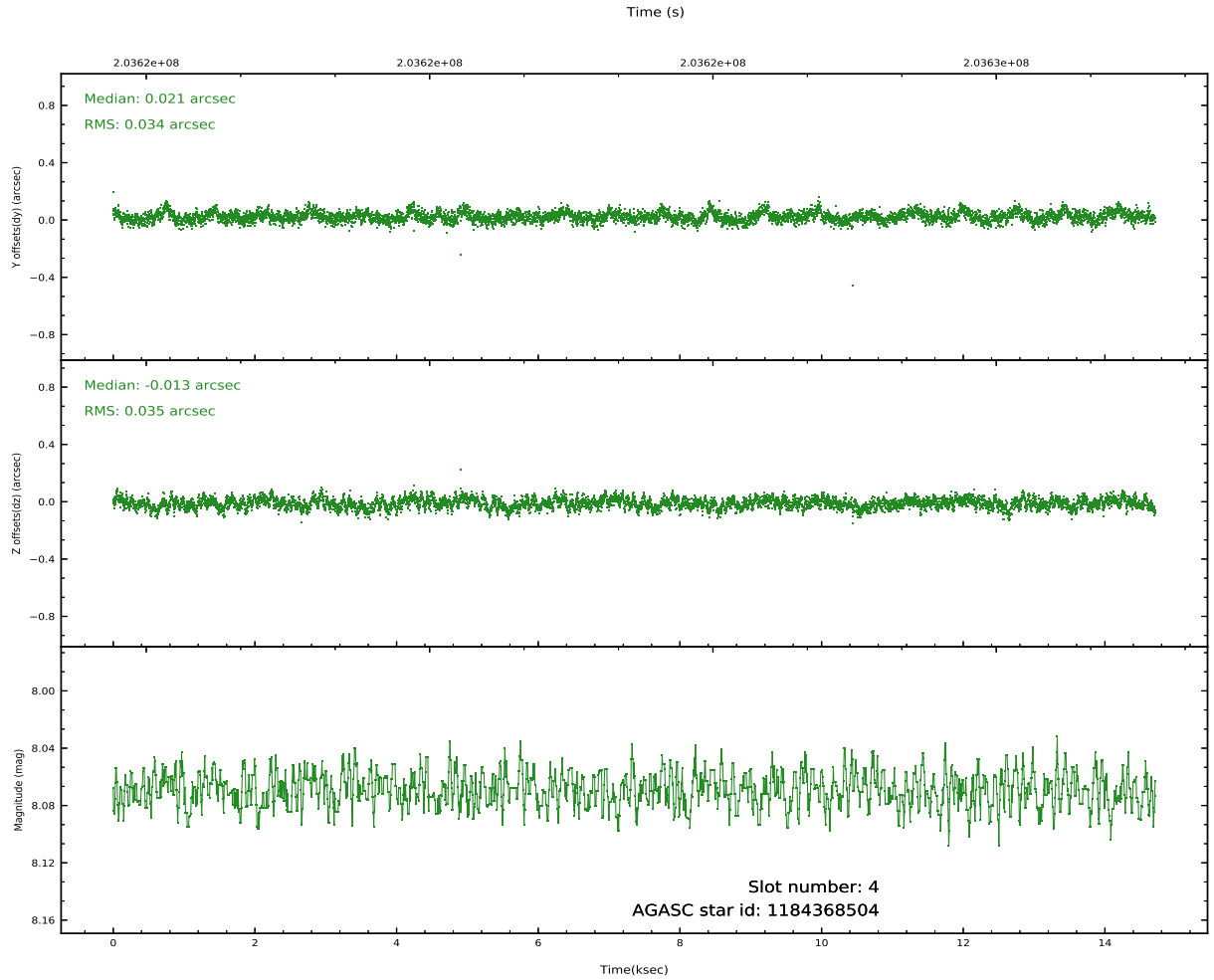
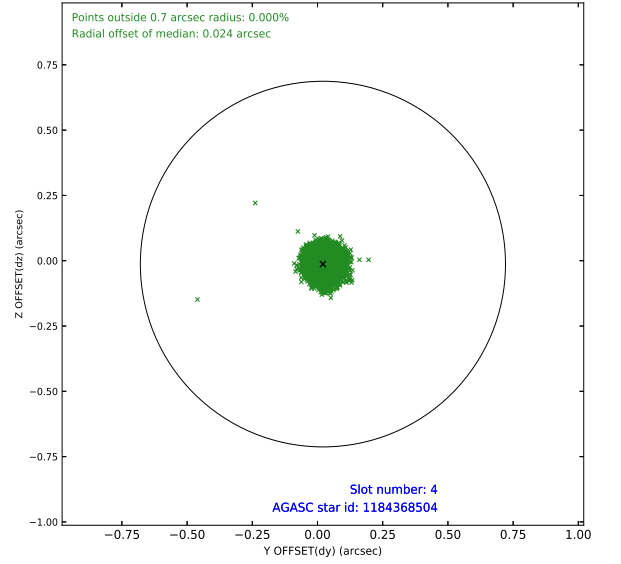
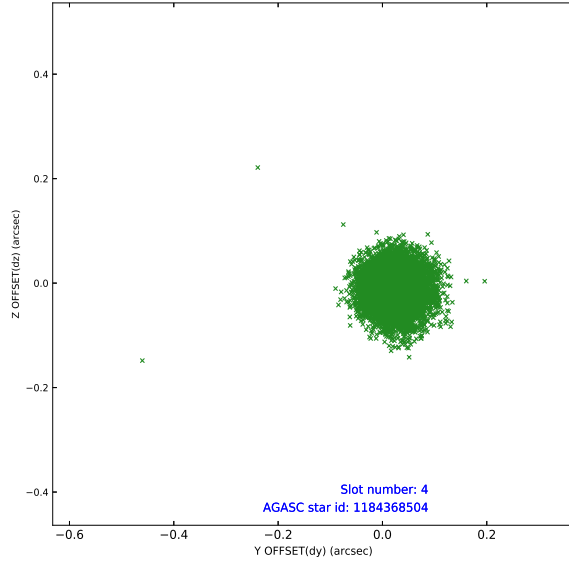
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	3588	1.000	-0.023	0.020	0.009	0.016	0.000000	0.000000	933.78	-832
1	FID		ACIS-I-4	7.19	3588	1.000	0.138	0.021	0.008	0.013	0.000000	0.000000	2154.13	1066
2	FID		ACIS-I-5	7.23	3589	1.000	-0.213	0.030	0.009	0.016	0.000000	0.000000	-1814.04	1065
3	GUIDE	used	1184368208	8.88	7177	1.000	0.086	-0.071	0.089	0.136	243.049252	-60.006066	-1668.19	2262
4	GUIDE	used	1184368504	8.07	7178	1.000	0.021	-0.013	0.051	0.082	244.221417	-60.888502	1822.99	768
5	GUIDE	used	1184371048	8.56	7174	1.000	0.070	0.062	0.061	0.098	243.777147	-61.267740	1925.90	-797
6	GUIDE	used	1184380840	9.03	7172	1.000	-0.090	-0.029	0.096	0.148	241.482880	-61.030594	-1842.90	-2349
7	GUIDE	used	1143210296	8.67	7173	1.000	-0.093	0.053	0.084	0.135	242.795595	-59.872579	-2317.04	2402

2.4 Star Slots

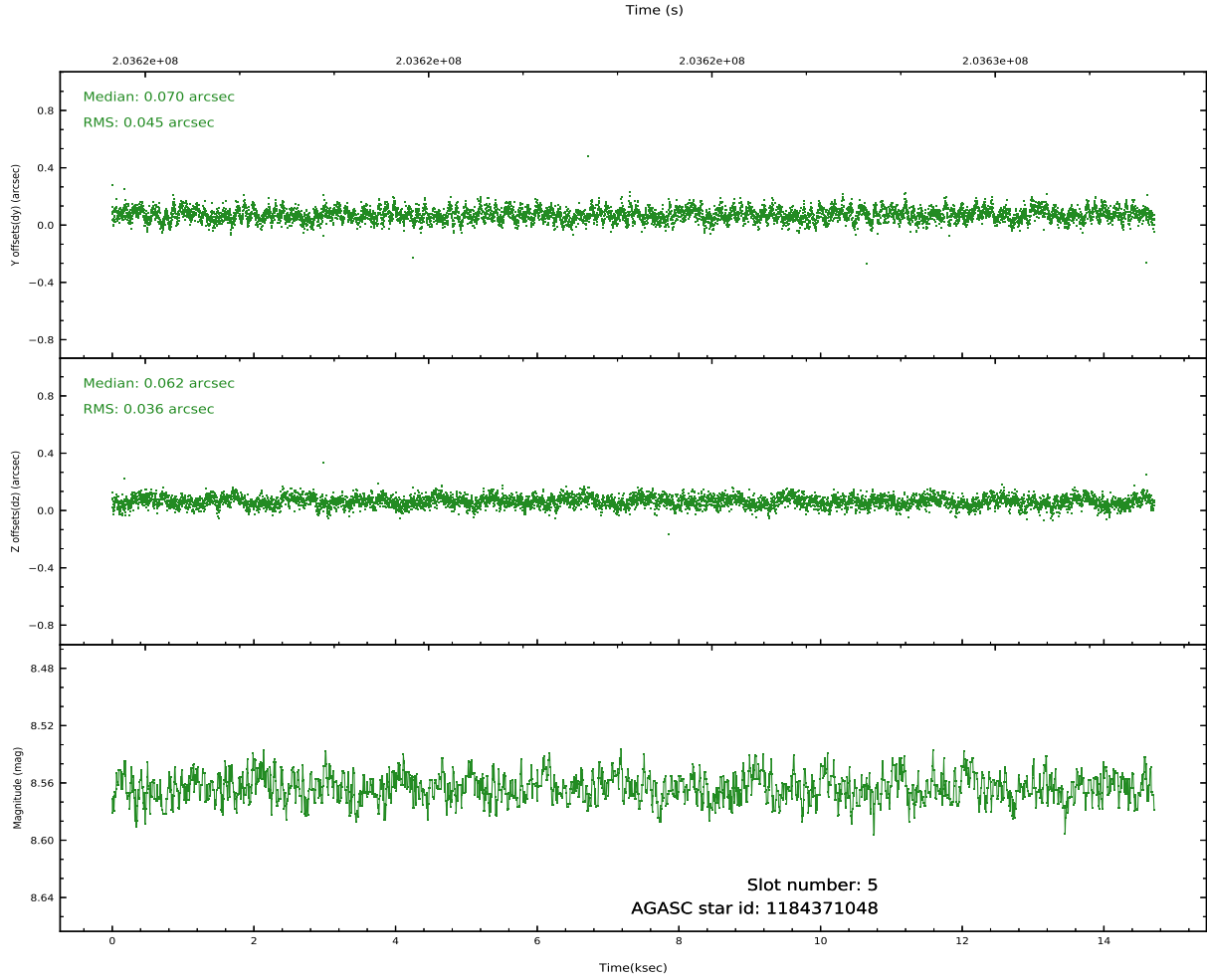
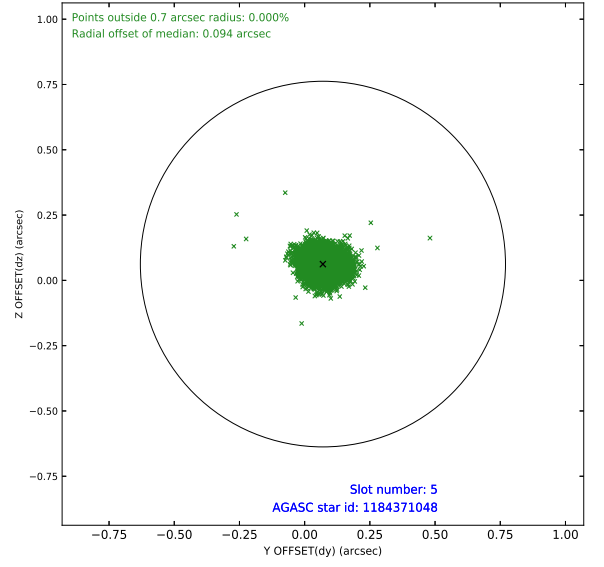
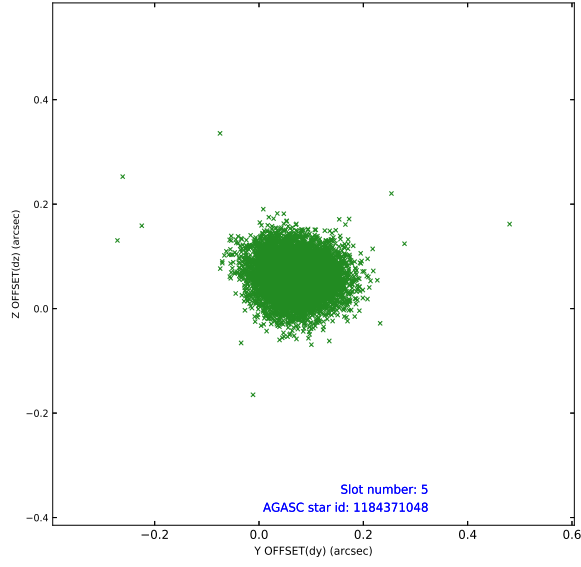
2.4.1 Slot 3



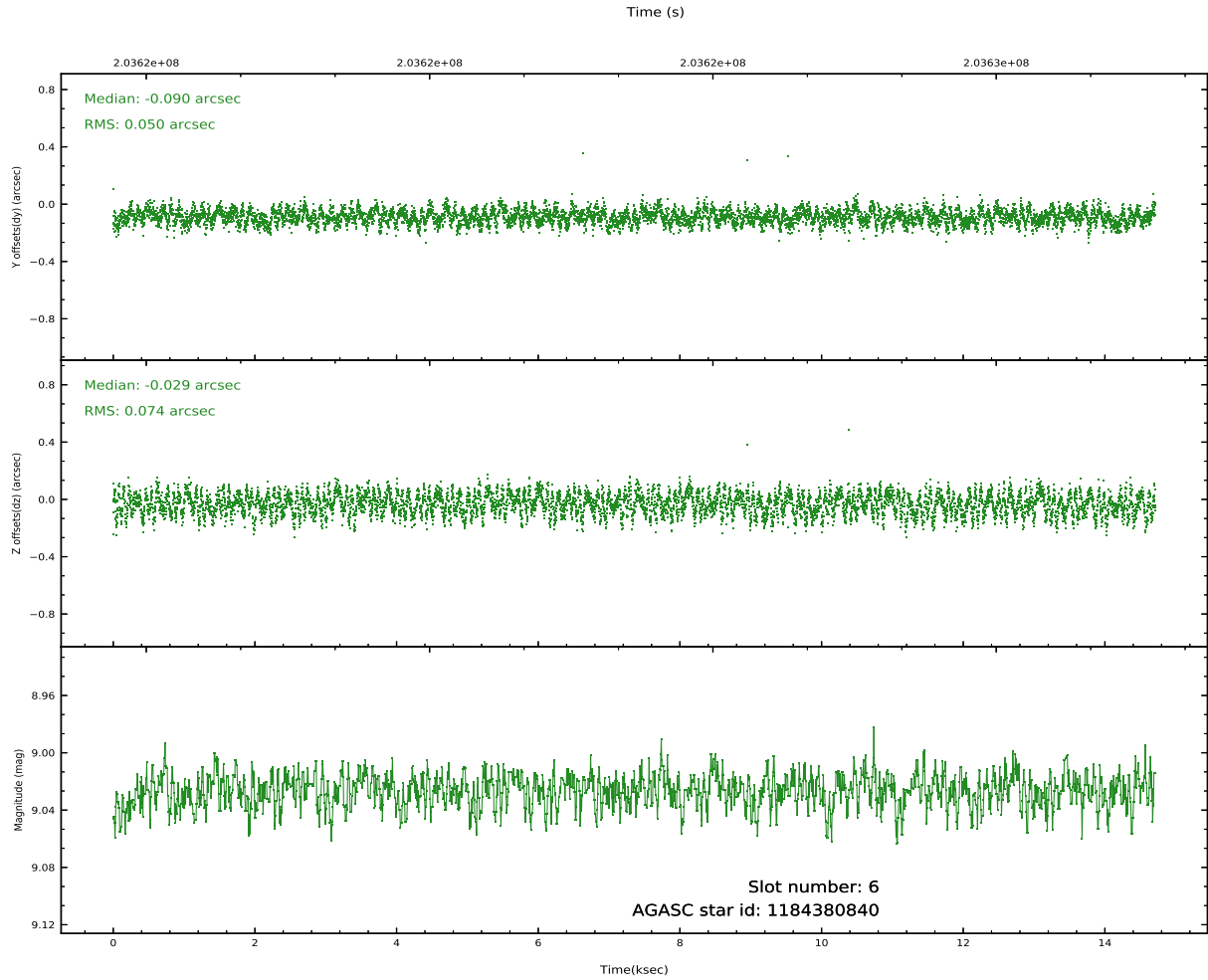
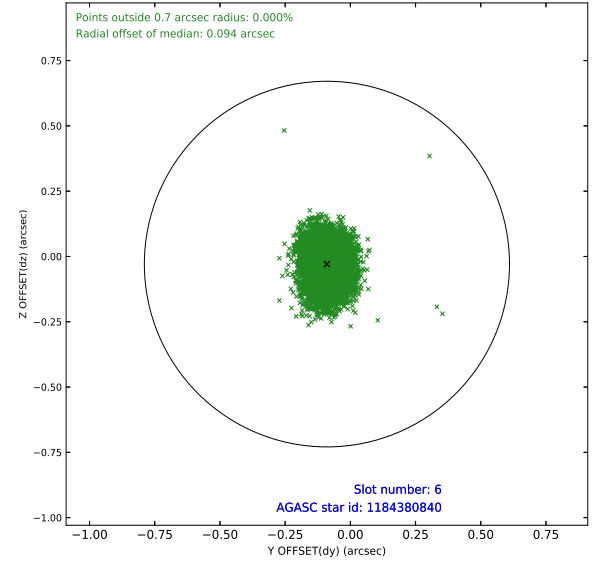
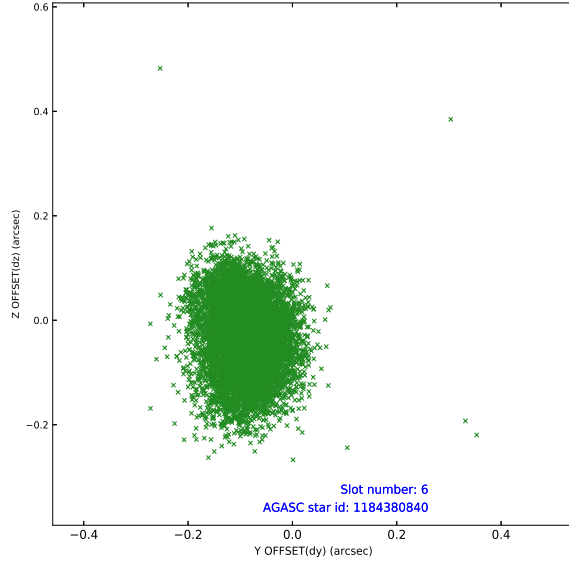
2.4.2 Slot 4



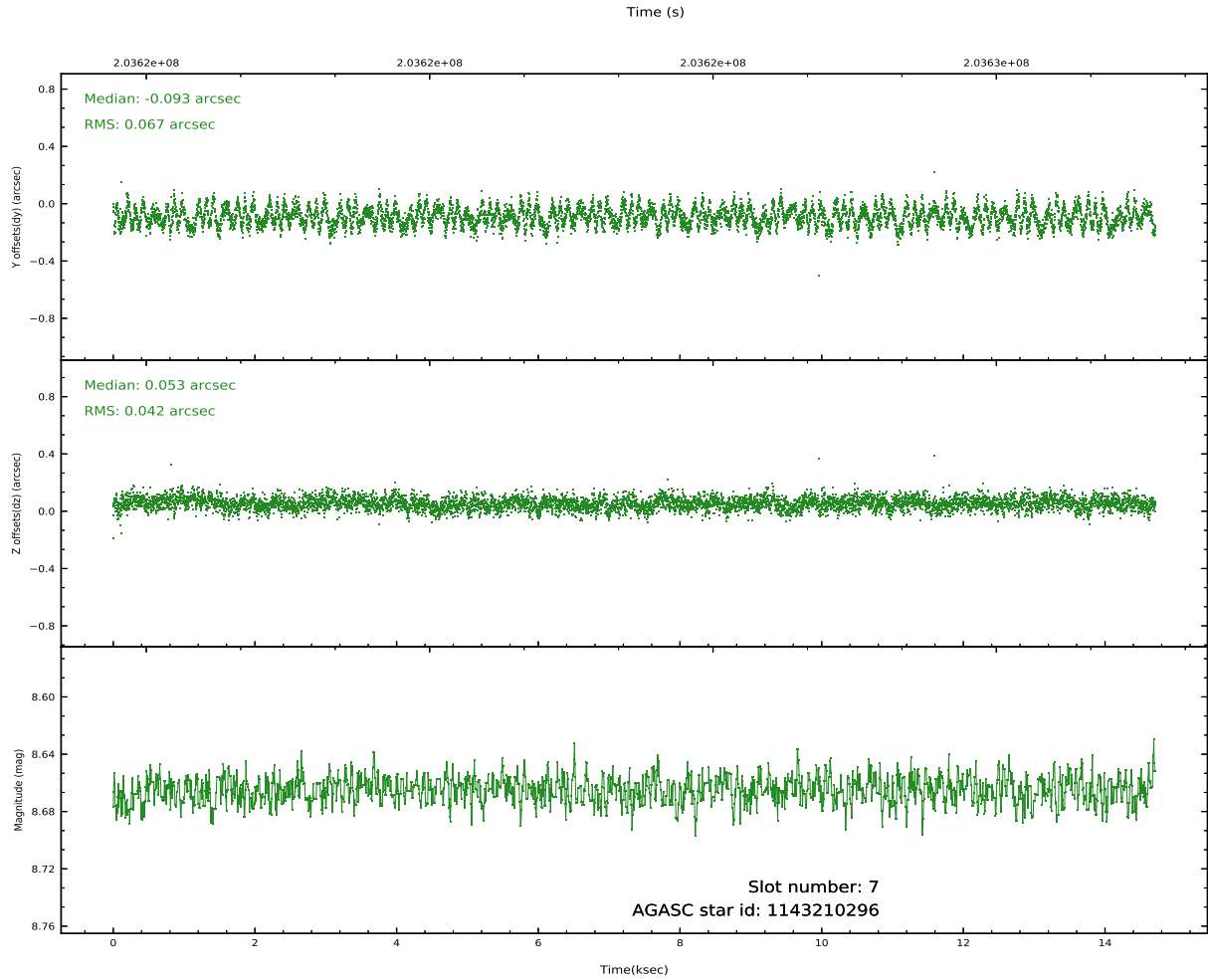
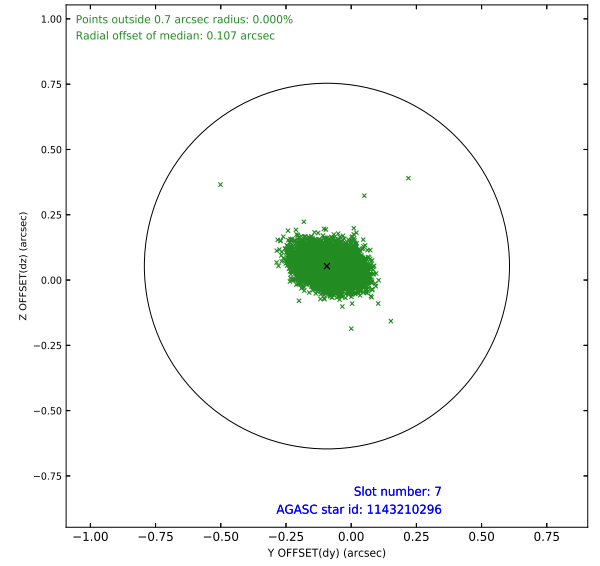
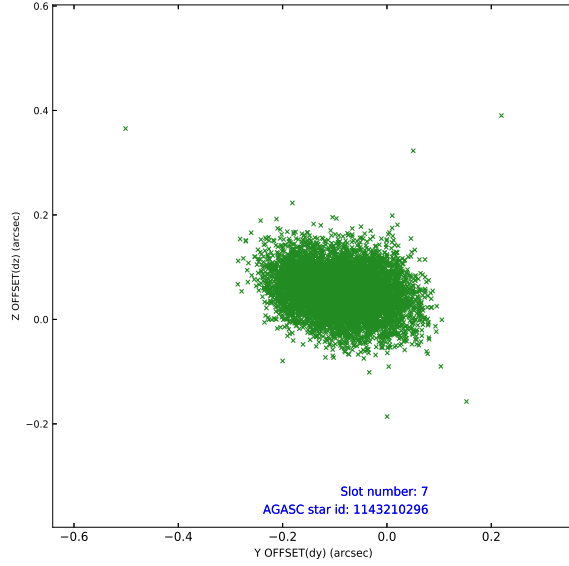
2.4.3 Slot 5



2.4.4 Slot 6

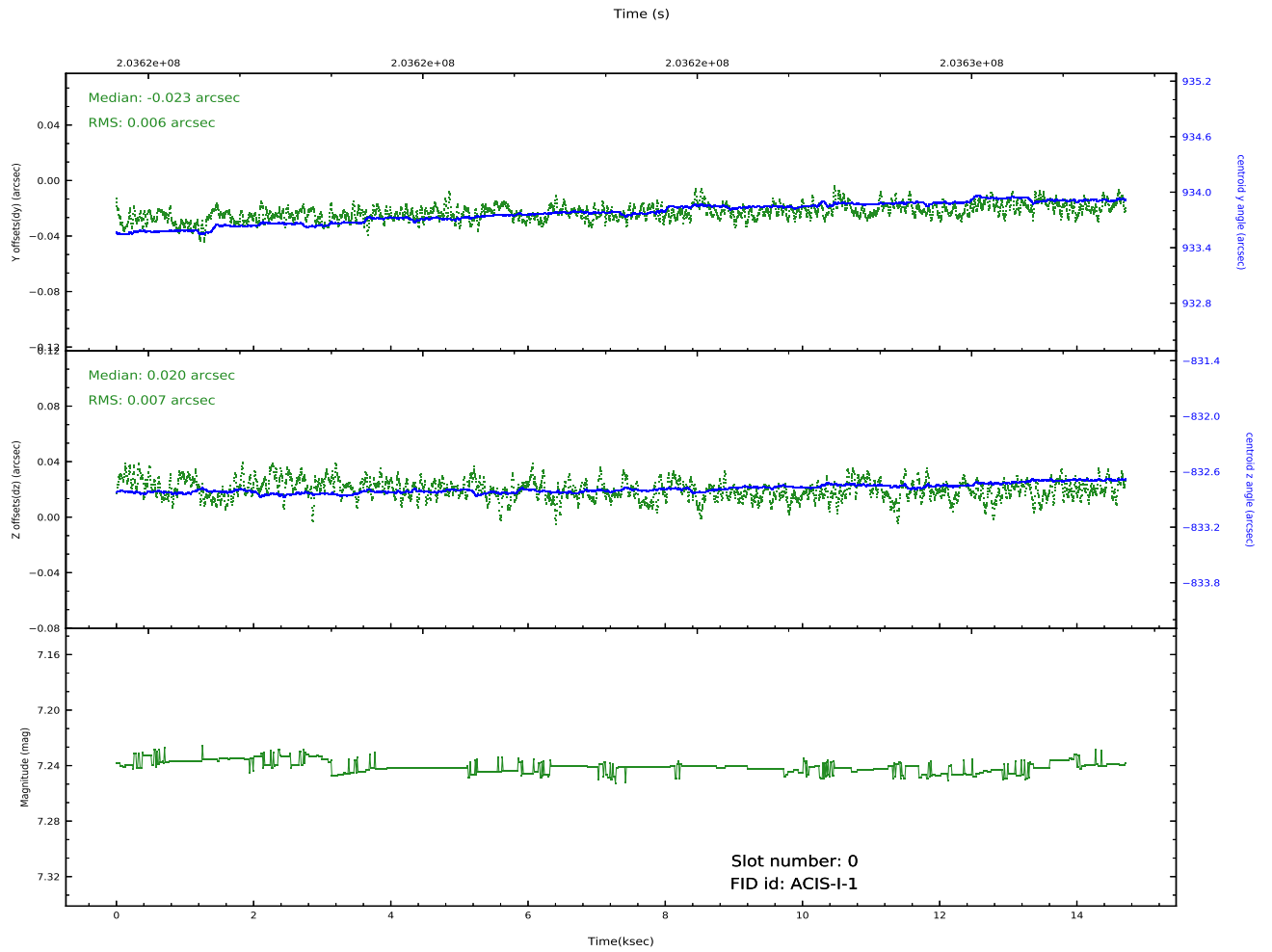
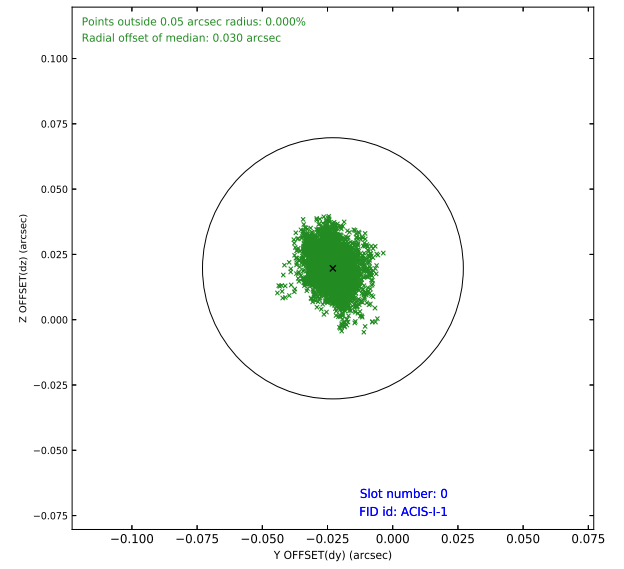
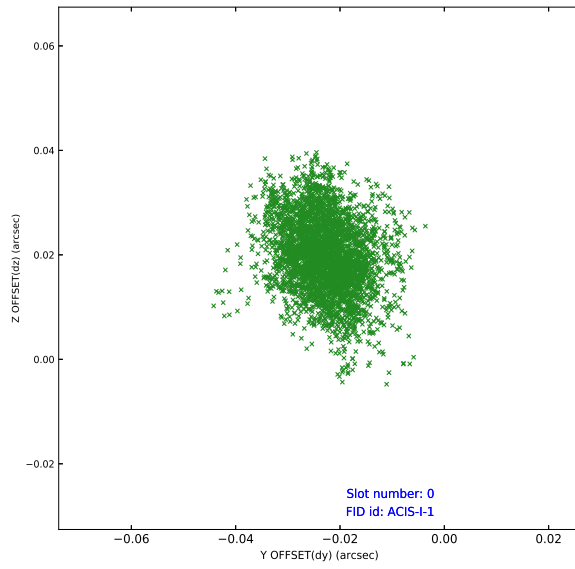


2.4.5 Slot 7

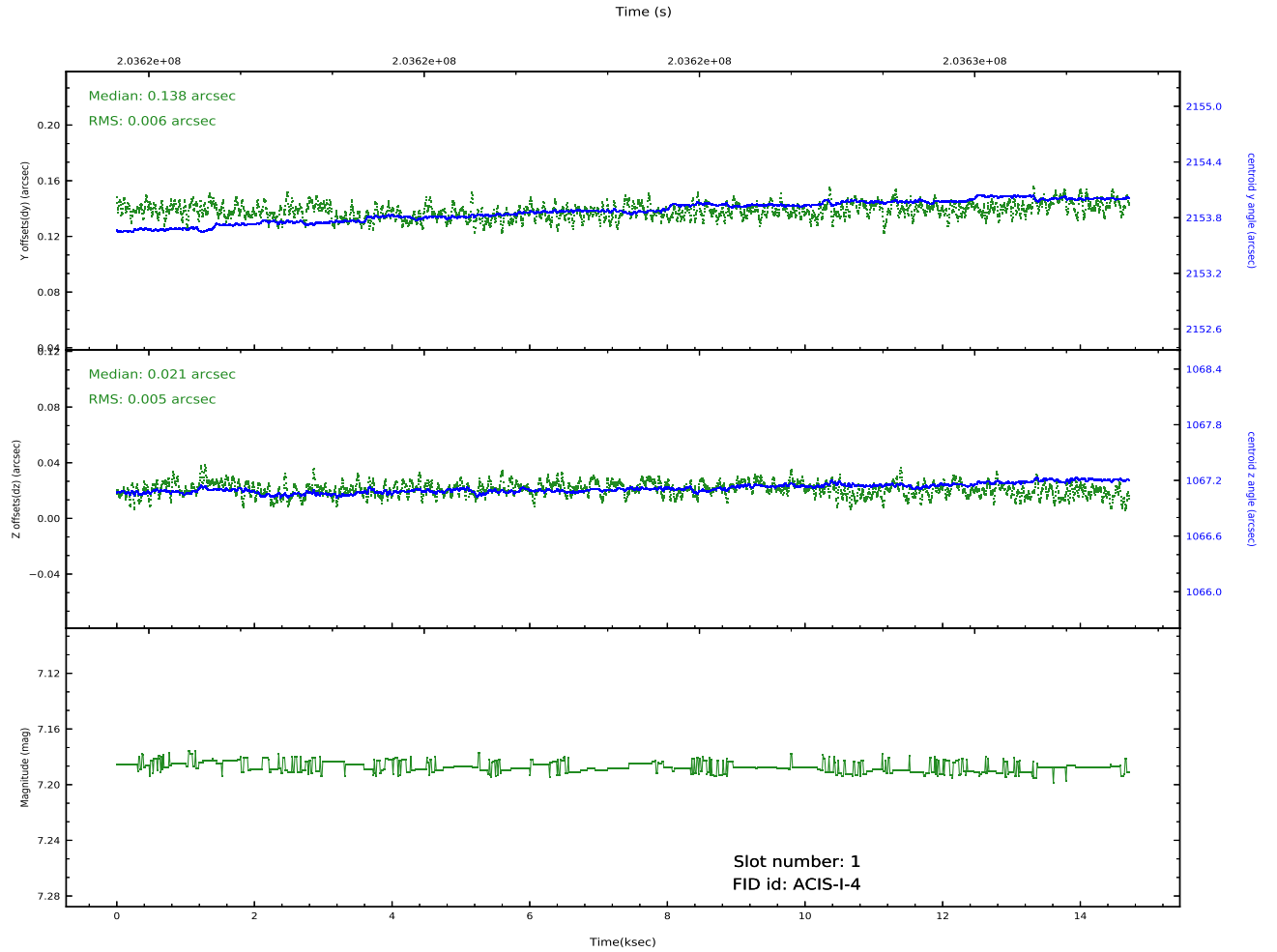
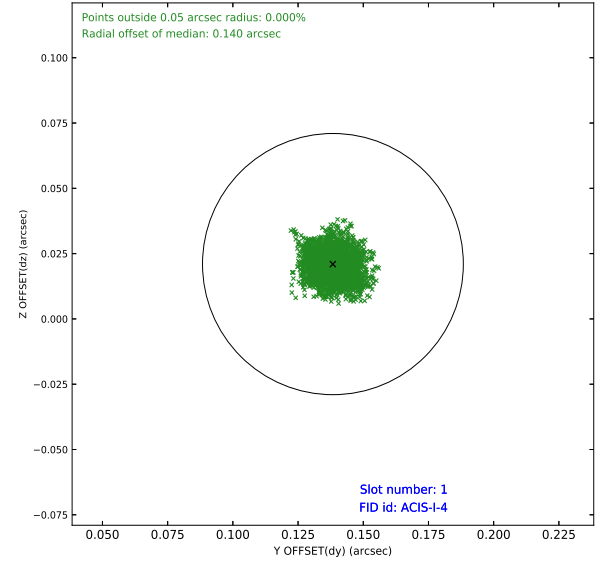
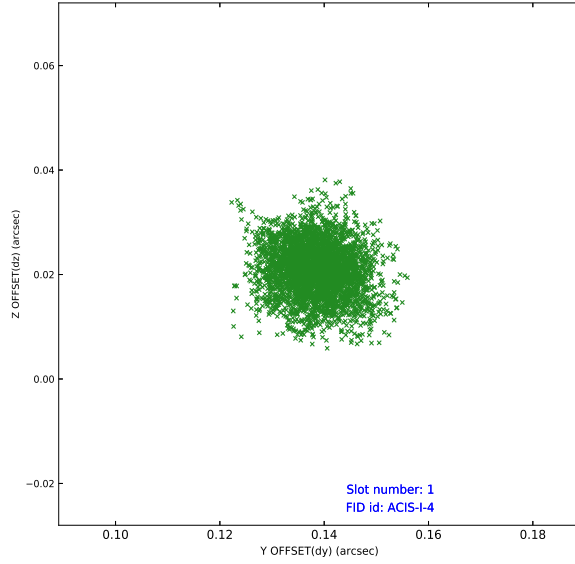


2.5 FID Slots

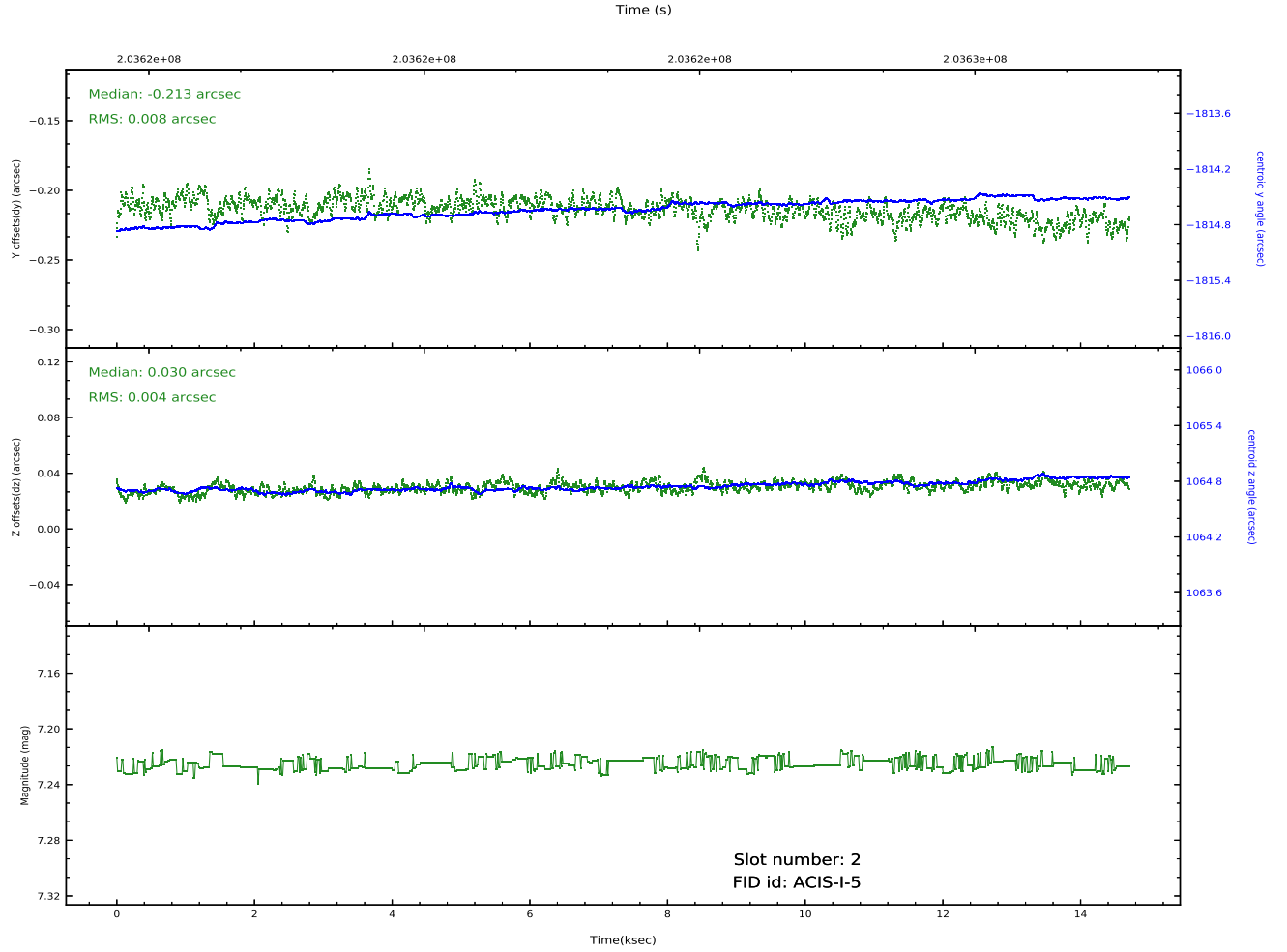
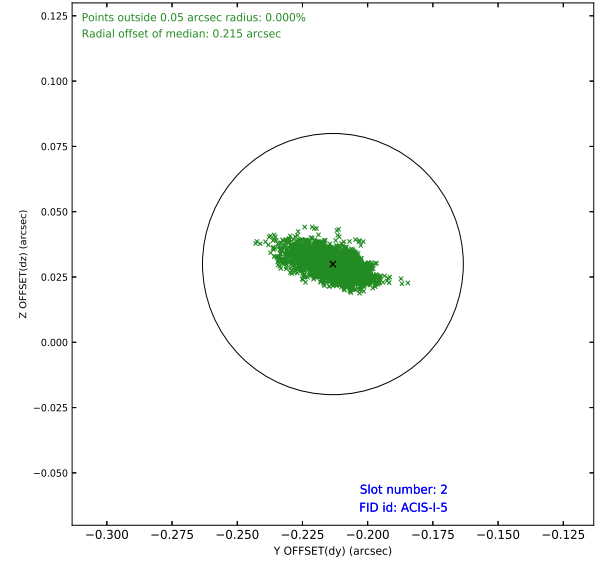
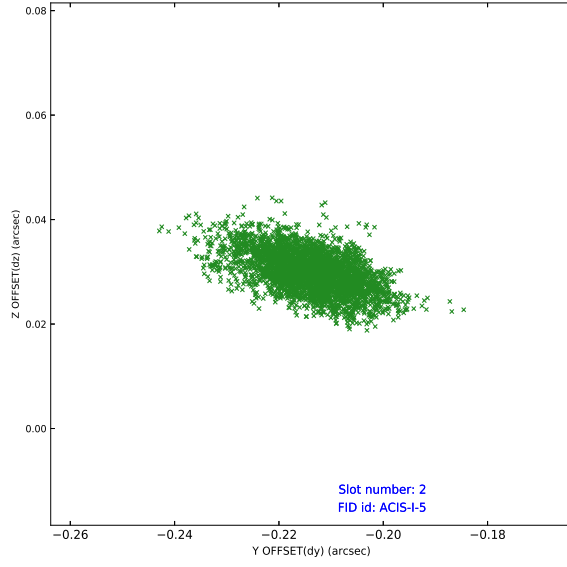
2.5.1 Slot 0



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)	2020.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.703

A.2 Comments

Joint proposal with XMM.