

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6252 - L2 Version 4
Chandra X-Ray Center

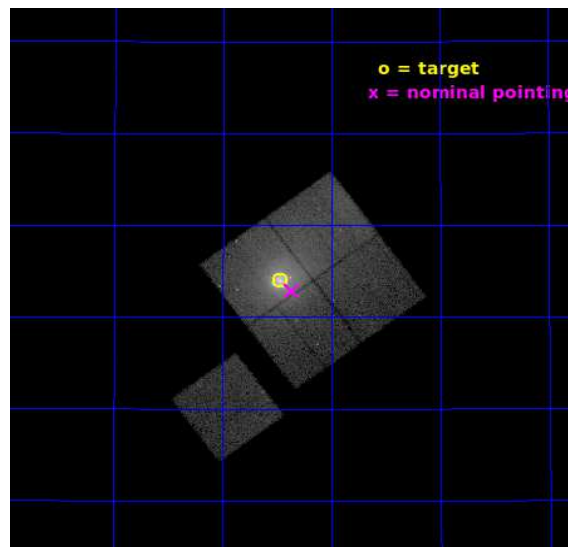
L2 Processing Date : Oct 10 2020

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1 Front

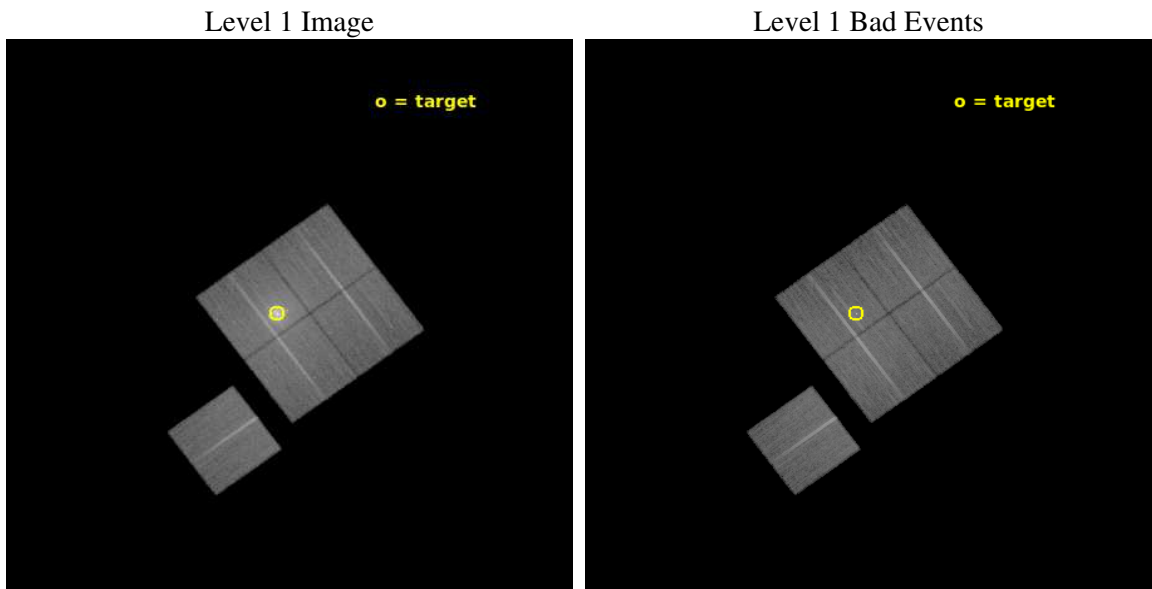
seq_num	800540	Sequence number
obs_id	6252	Observation id
title	Cygnus A --- Shock Heating of the Intra-Cluster Medium	Proposal ti
observer	Andrew Young	Principal investigator
object	Cygnus A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.867917	Observer's specified target RA [deg]
dec_targ	40.733889	Observer's specified target Dec [deg]
ra_nom	299.84123971695	Nominal RA [deg]
dec_nom	40.714797209959	Nominal Dec [deg]
roll_nom	233.60786015046	Nominal Roll [deg]
revision	4	Processing version of data
ontime	30045.158942044	Sum of GTIs [s]
livetime	29652.596821542	Livetime [s]
ontime0	30045.158971965	Sum of GTIs [s]
ontime1	30048.299942195	Sum of GTIs [s]
ontime2	30042.01806131	Sum of GTIs [s]
ontime3	30045.158942044	Sum of GTIs [s]
ontime6	30048.299942195	Sum of GTIs [s]
l2events	274817	Number of level 2 events



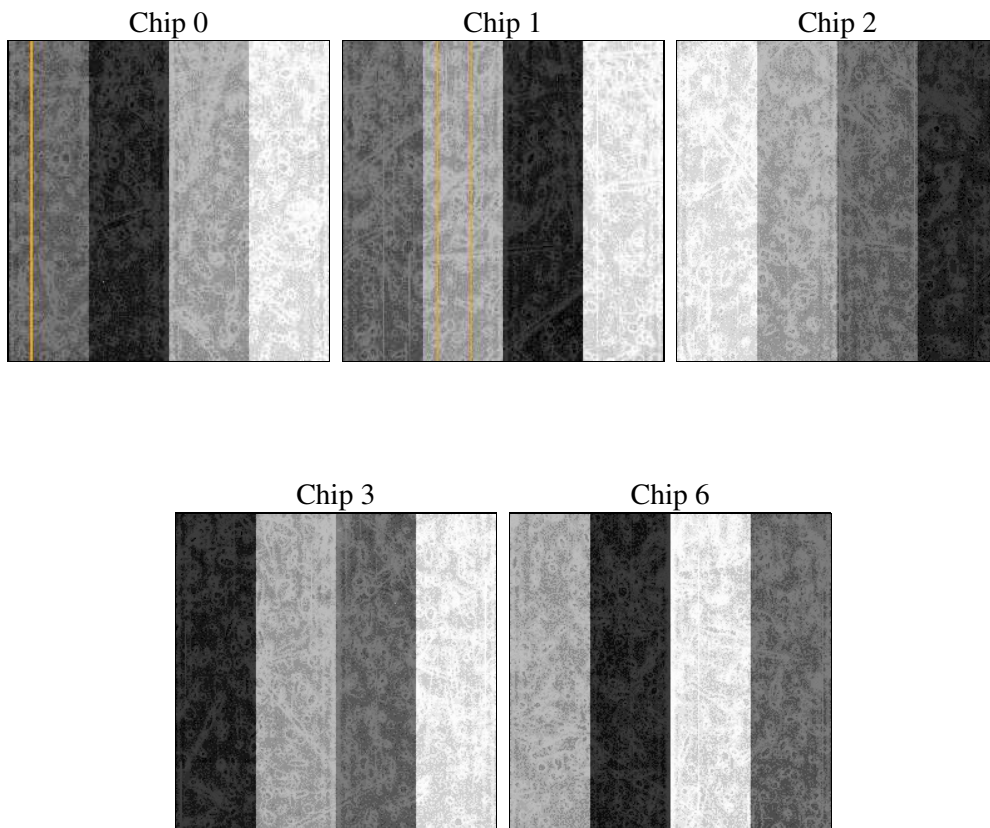
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30045.158942044	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	30045.158971965	Sum of GTIs [s]
date	2020-10-10T08:19:53	Date and time of file creation	ontime1	30048.299942195	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	30042.01806131	Sum of GTIs [s]
			ontime3	30045.158942044	Sum of GTIs [s]
			ontime6	30048.299942195	Sum of GTIs [s]
			l1events	1140159	Number of level 1 events

2.1.4 Events

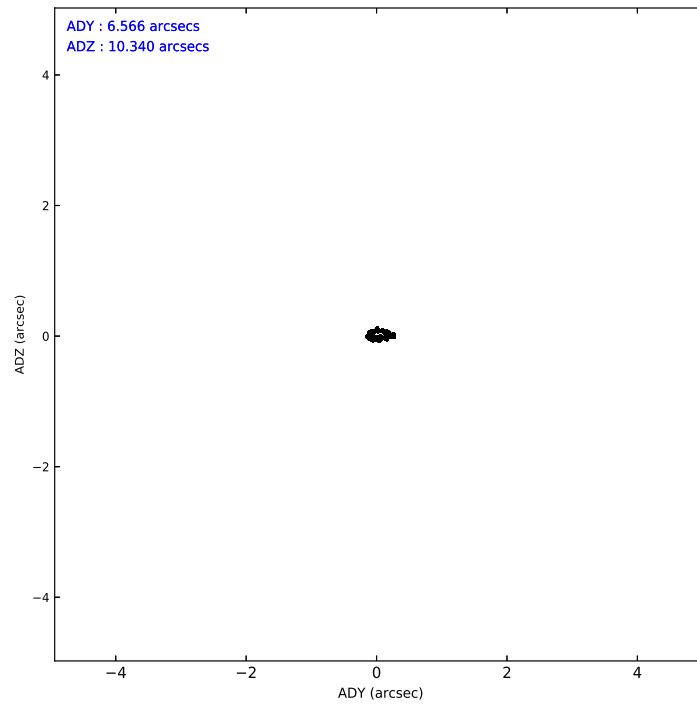
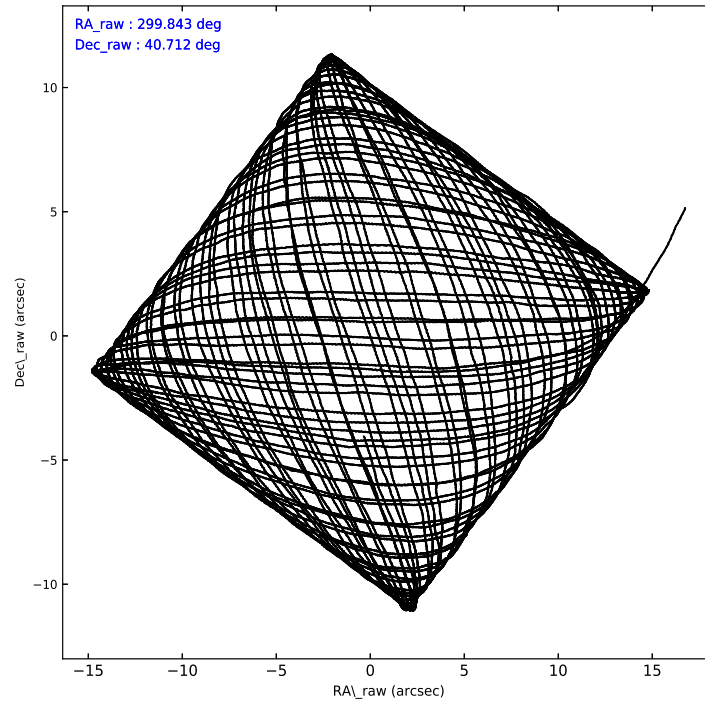
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	183453	212548	216470	336197	191491
rejected events	156036	157300	183759	174617	170183
rejected %	85%	74%	84%	51%	88%

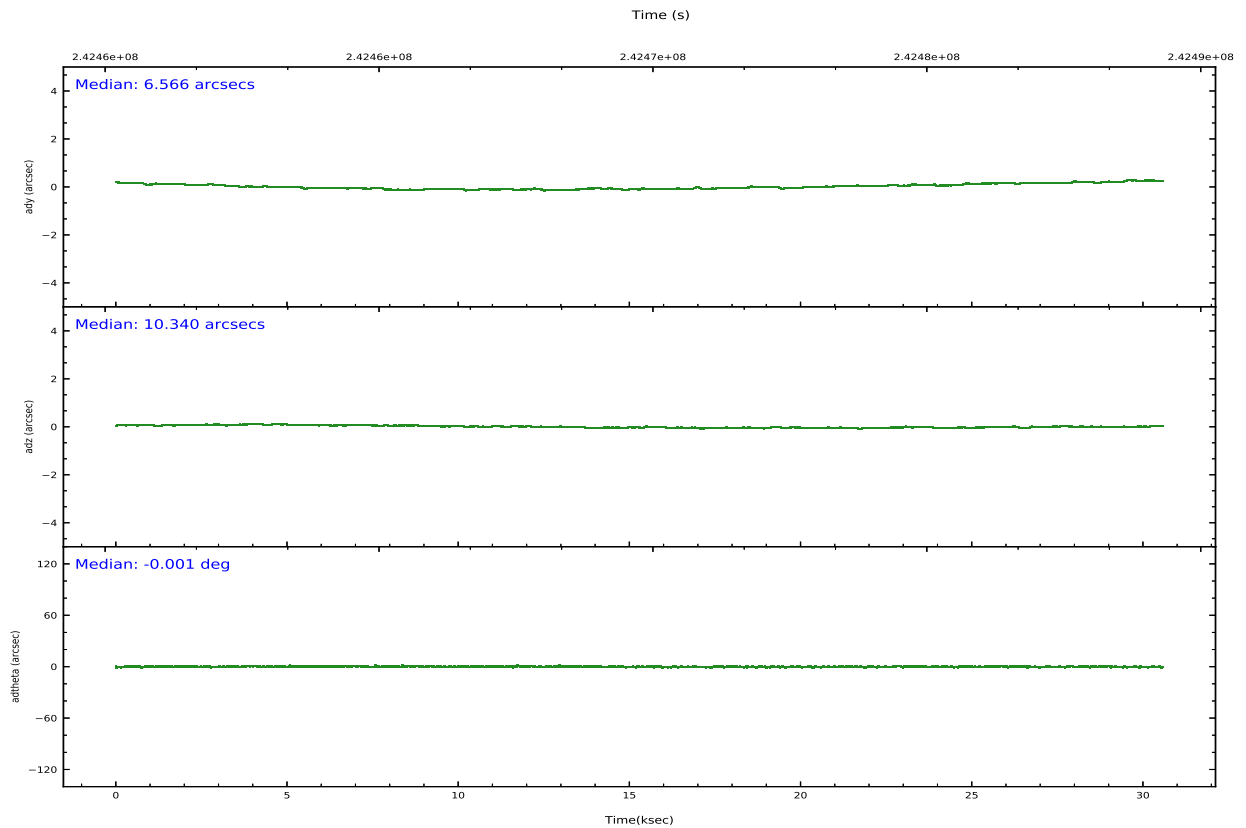
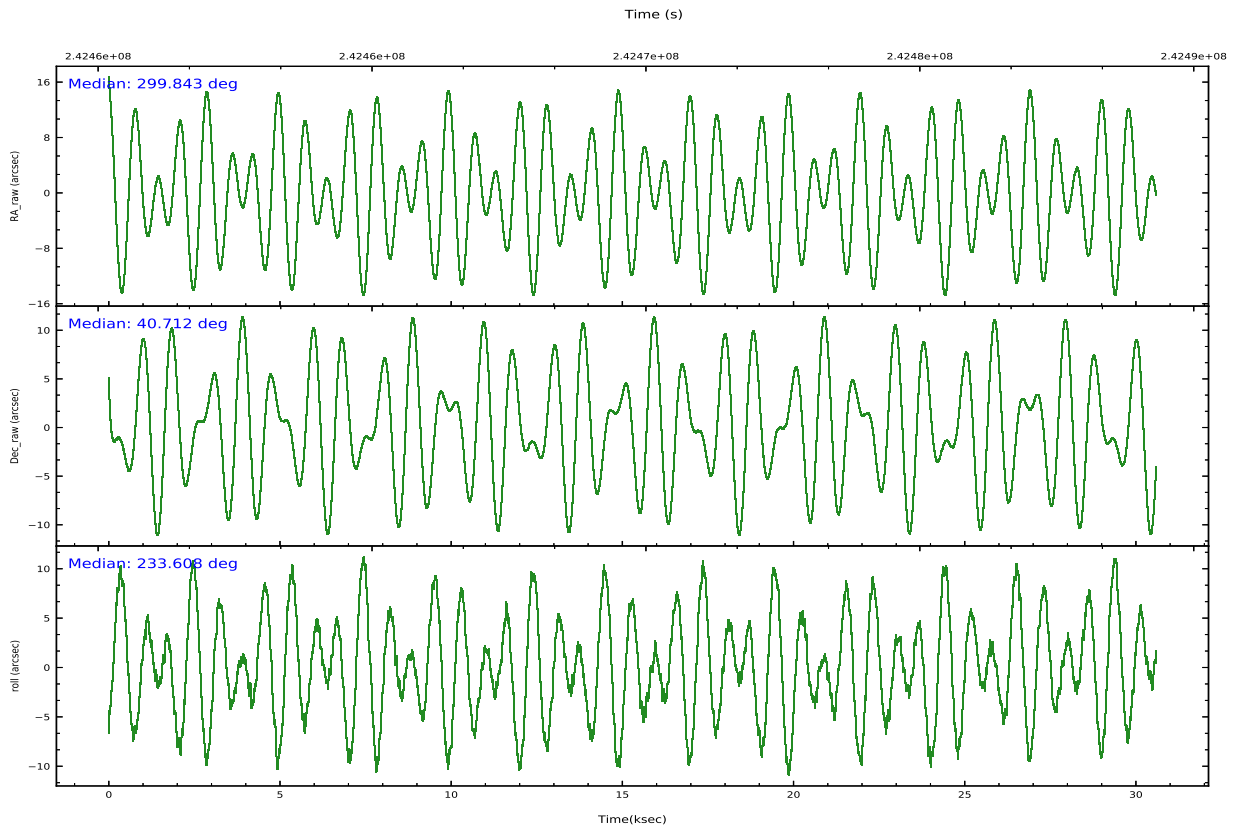
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	13528	34551	18237	119413	8470
	7%	16%	8%	35%	4%
grade 1 events	127	216	138	1257	91
	0%	0%	0%	0%	0%
grade 2 events	5291	8243	5522	19263	4240
	2%	3%	2%	5%	2%
grade 3 events	2416	3493	2498	7115	2185
	1%	1%	1%	2%	1%
grade 4 events	2283	3489	2591	7113	2157
	1%	1%	1%	2%	1%
grade 5 events	6263	7181	6033	8480	7329
	3%	3%	2%	2%	3%
grade 6 events	3901	5475	3864	8692	4258
	2%	2%	1%	2%	2%
grade 7 events	149644	149900	177587	164864	162761
	81%	70%	82%	49%	84%

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	299.846862	299.84123971695	Subarray requested	NONE	NONE
[deg] Pointing Dec	40.738677	40.714797209959	Alternating exposures requested	N	N
[deg] Pointing Roll	233.405442	233.60786015046	[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	-227.732463	-227.734108438797			
[mm] SIM translation stage offset	-5.86	-5.858344564132665			
[s] Observation start time (MET)	242456903.184000	242455715.84197			
Observation start date	2005-09-07T05:07:19	2005-09-07T04:48:35			
[s] Observation end time (MET)	242486903.184000	242488223.71846			
Observation end date	2005-09-07T13:27:19	2005-09-07T13:50:23			
Read mode	TIMED	TIMED			

2.3 Aspect





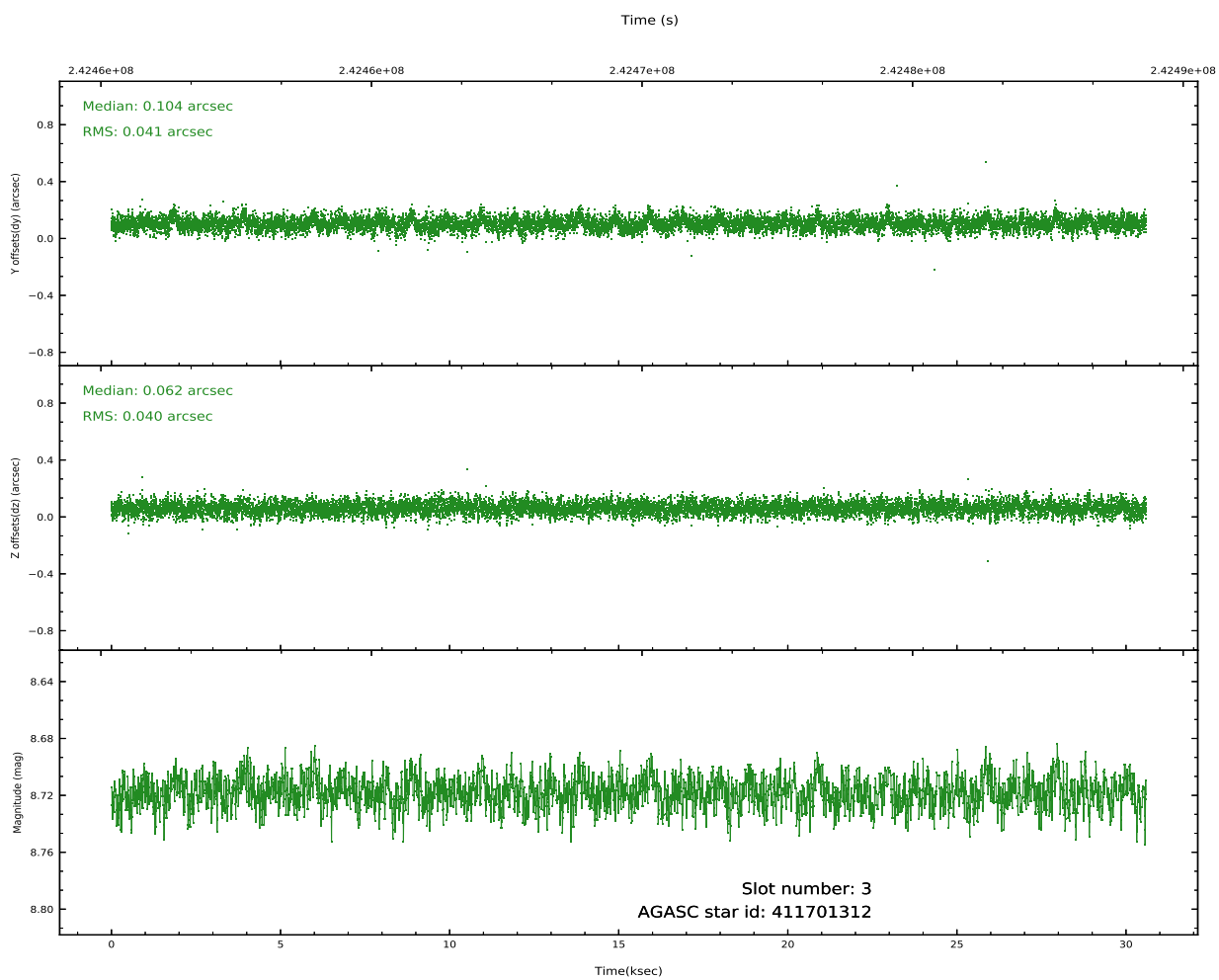
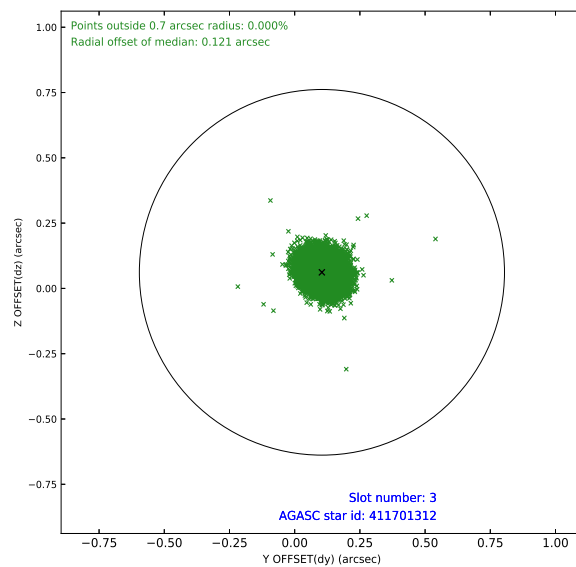
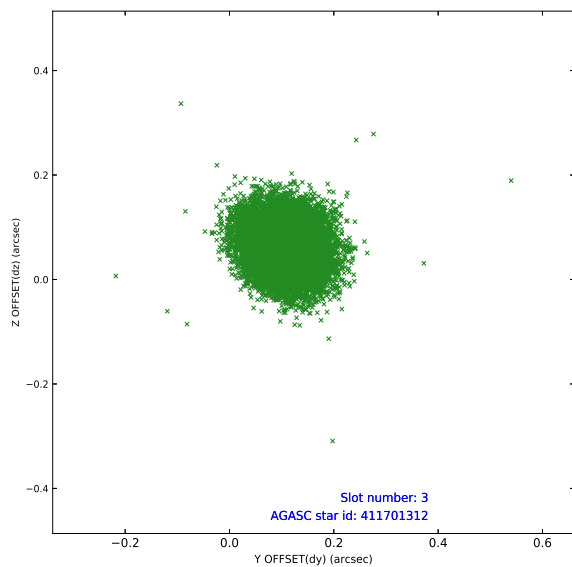
Slot Statistics

slot	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	7462	1.000	0.135	-0.122	0.007	0.011	0.000000	0.000000	933.12	-954
1	FID		ACIS-I-5	7.23	7462	1.000	-0.287	0.105	0.007	0.011	0.000000	0.000000	-1815.34	943
2	FID		ACIS-I-6	7.25	7461	1.000	0.060	0.087	0.008	0.012	0.000000	0.000000	398.55	1588
3	GUIDE	used	411701312	8.72	14856	1.000	0.104	0.062	0.061	0.099	298.889956	40.820220	1307.64	-2275
4	GUIDE	used	411701808	8.83	14915	1.000	-0.014	-0.069	0.069	0.110	299.419536	40.880184	282.67	-1238
5	GUIDE	used	412240768	8.28	14922	1.000	-0.098	0.183	0.063	0.099	299.999696	41.280279	-1811.93	-830
6	GUIDE	used	413405352	8.35	14922	1.000	-0.011	-0.080	0.069	0.108	300.290830	41.091941	-1741.58	207
7	GUIDE	used	413421016	8.71	14919	1.000	0.023	-0.090	0.070	0.111	300.612426	40.446254	-412.72	2306

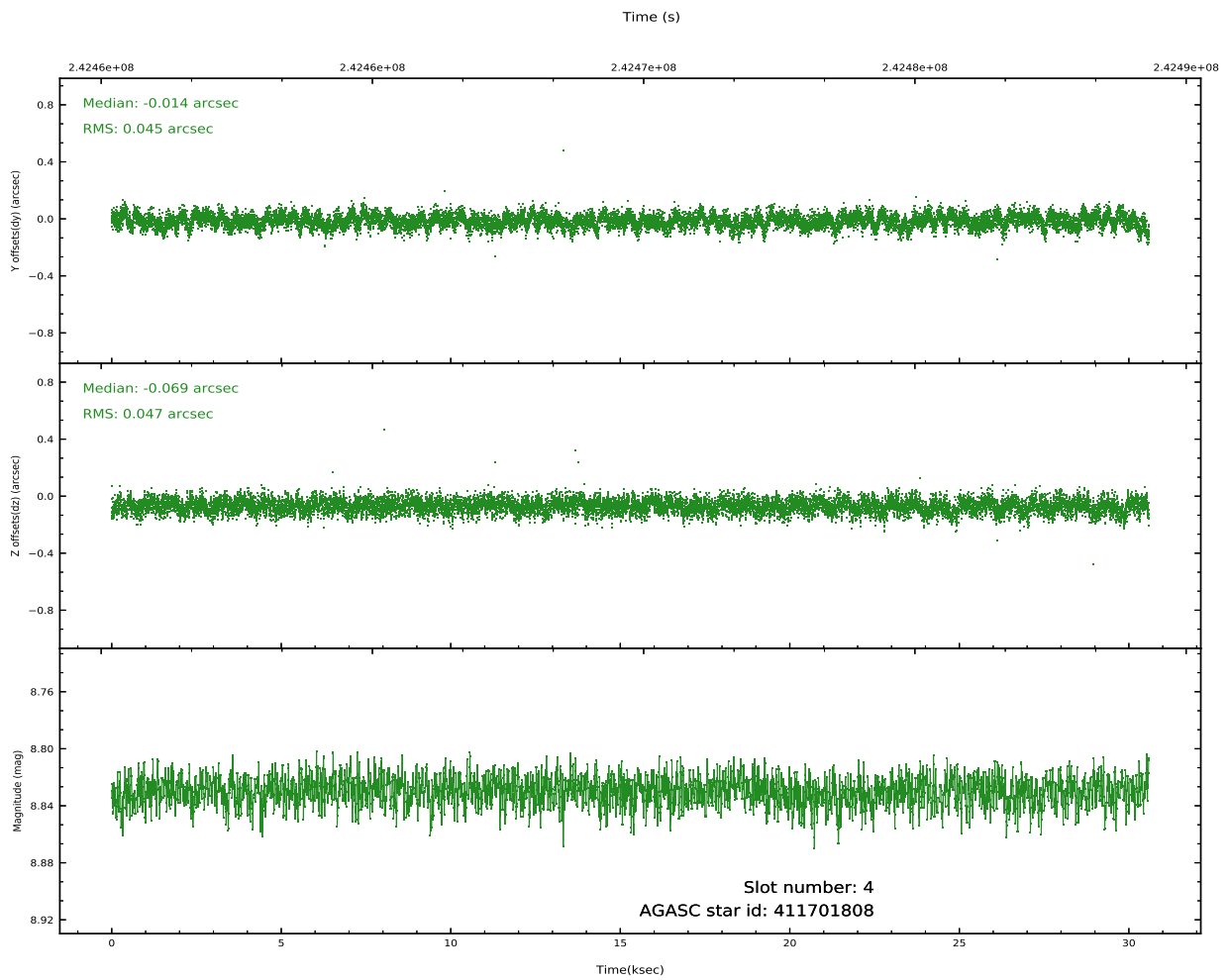
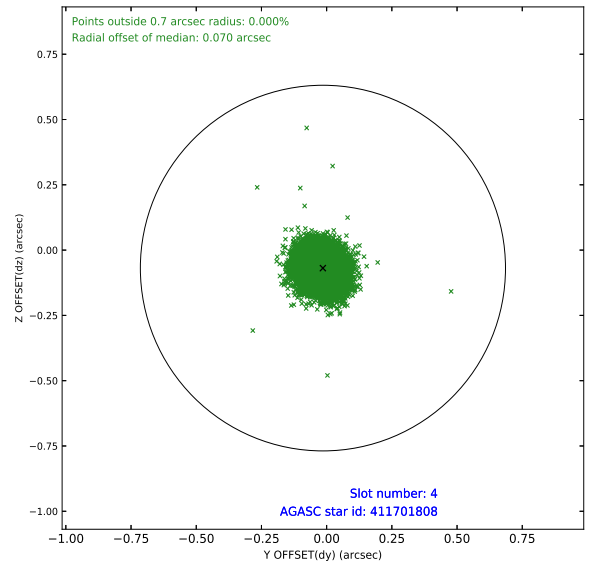
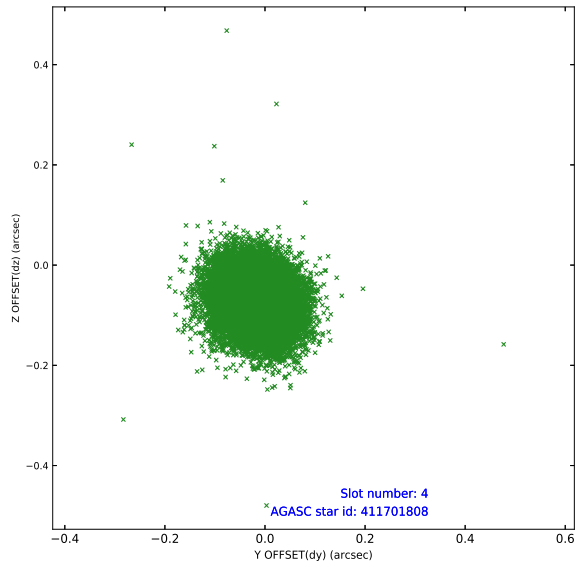
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2.4 Star Slots

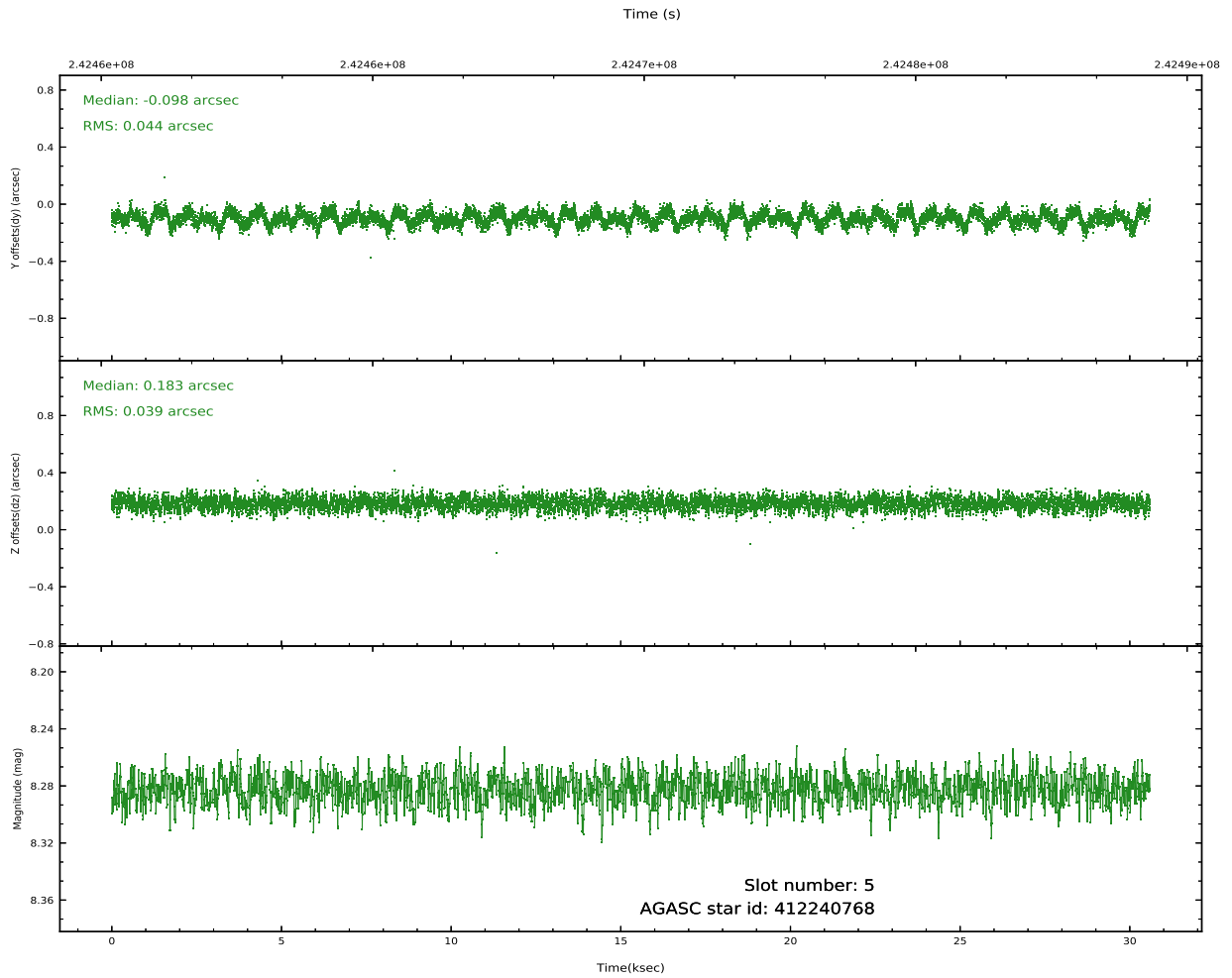
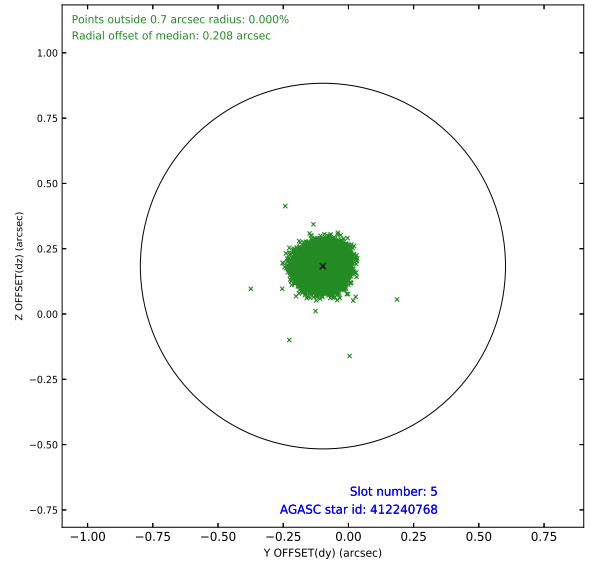
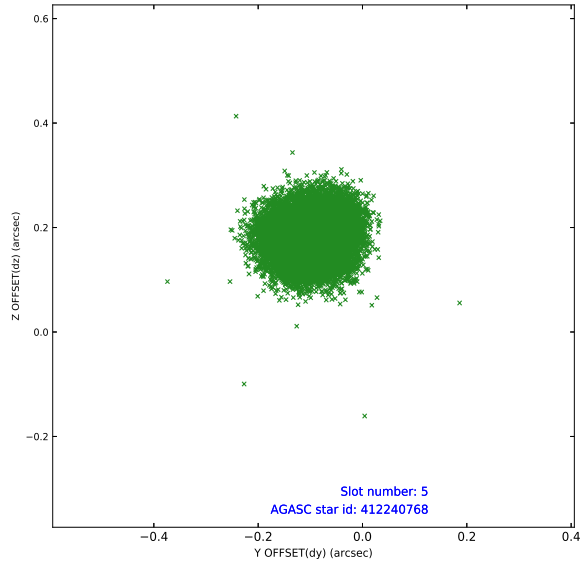
2.4.1 Slot 3



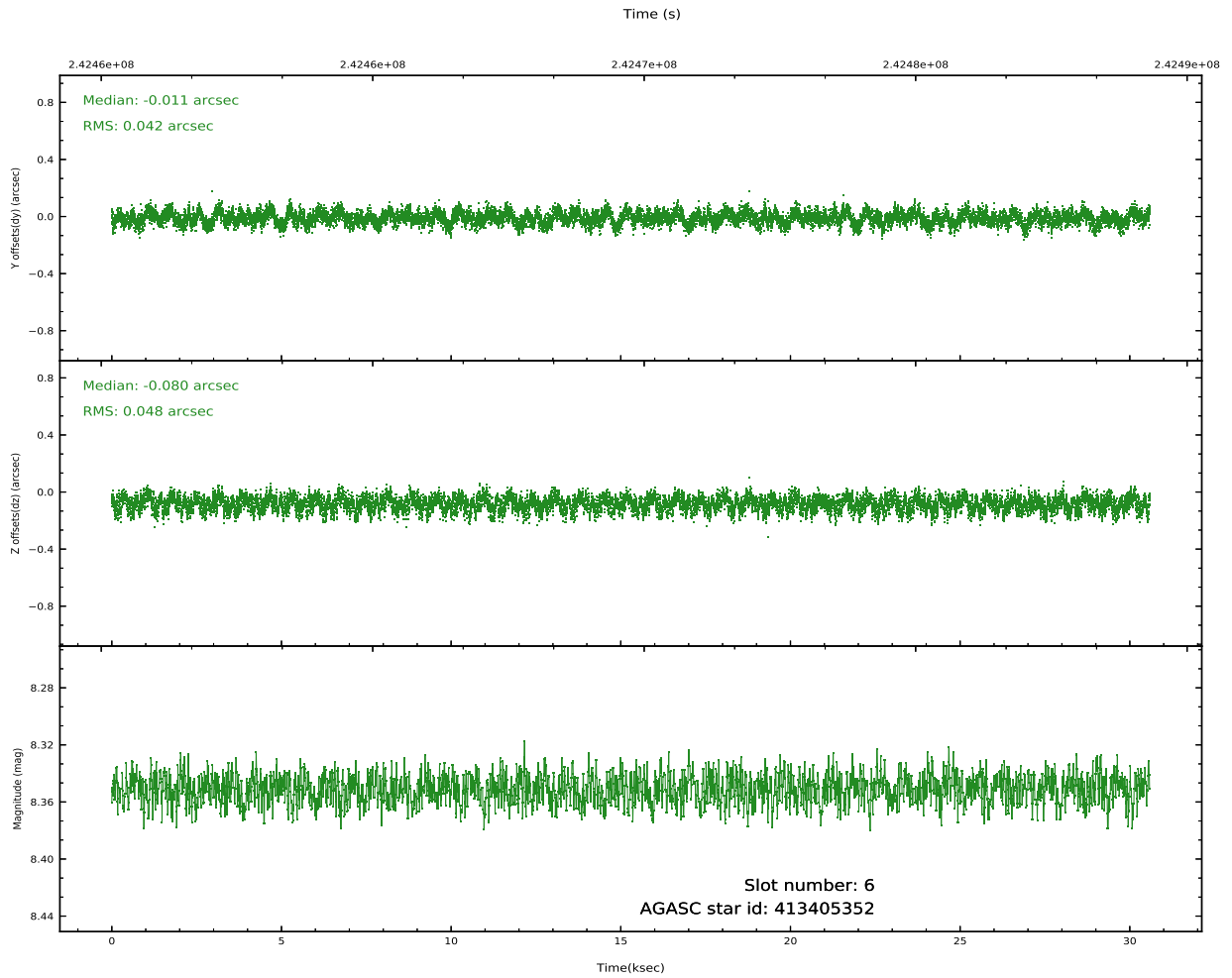
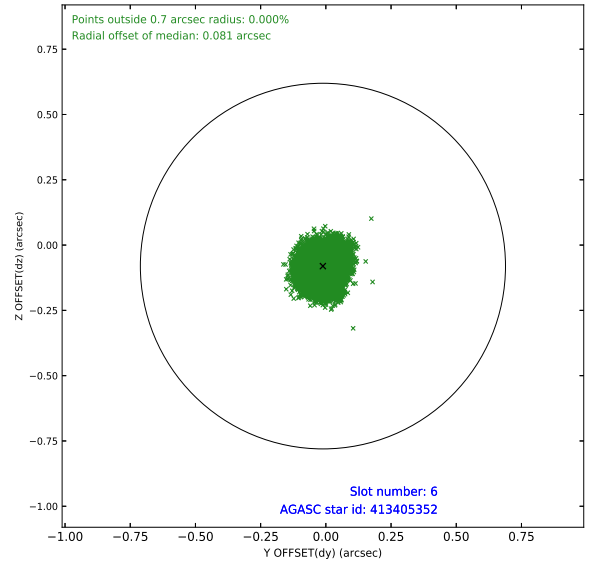
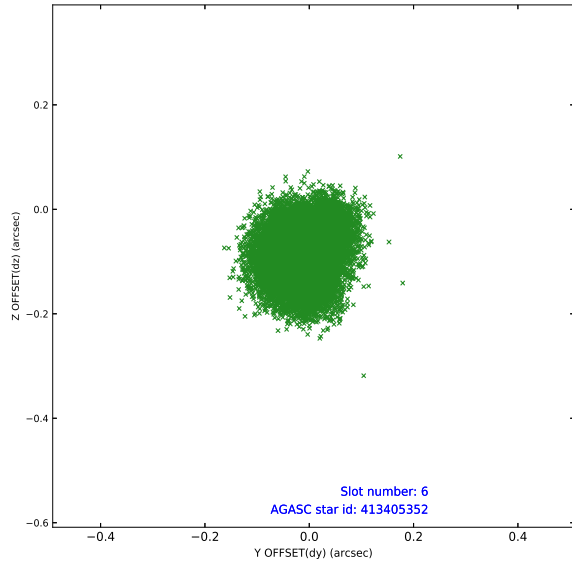
2.4.2 Slot 4



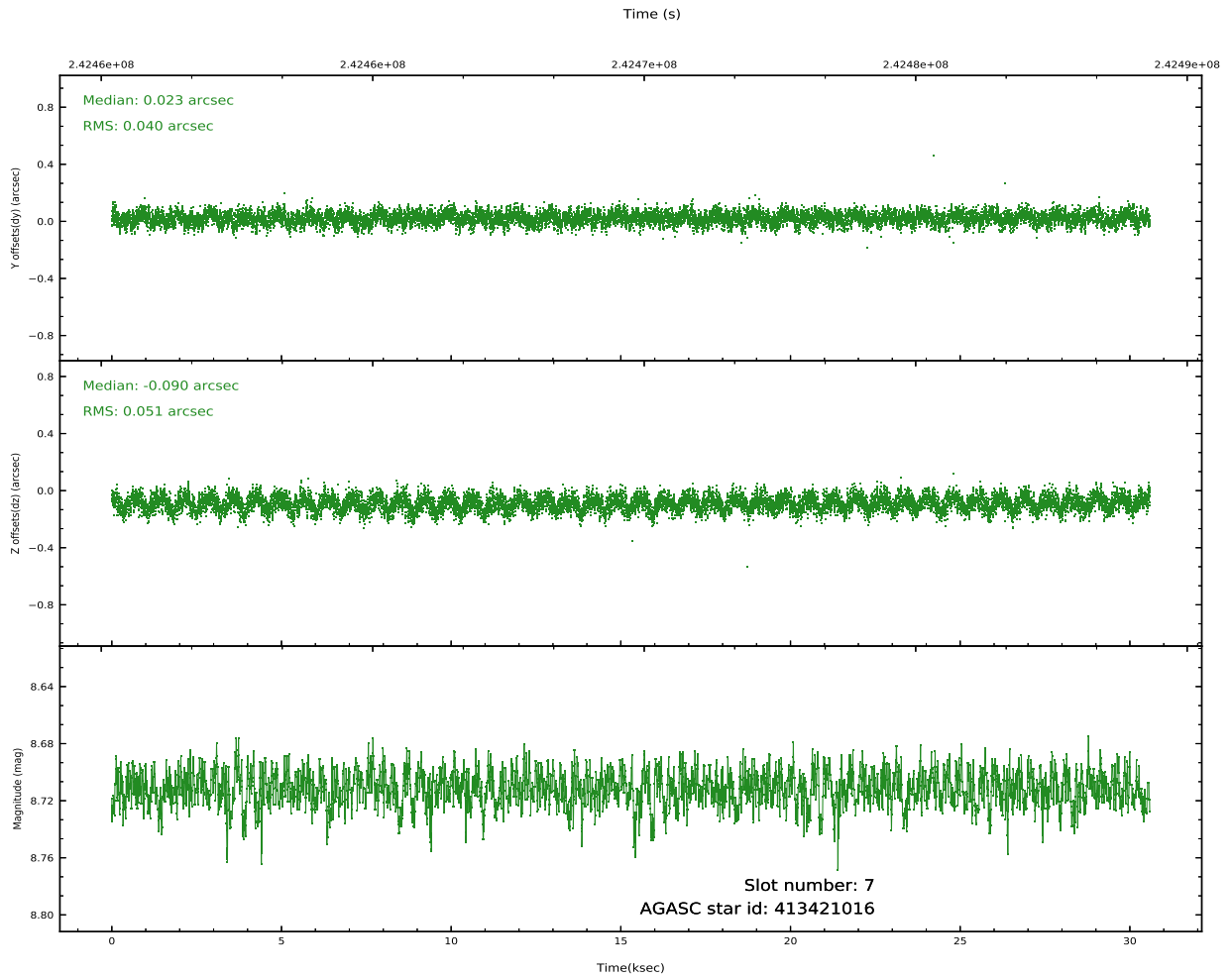
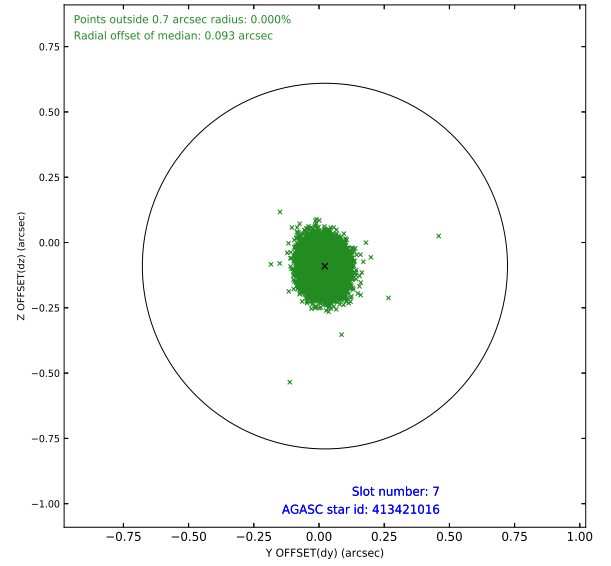
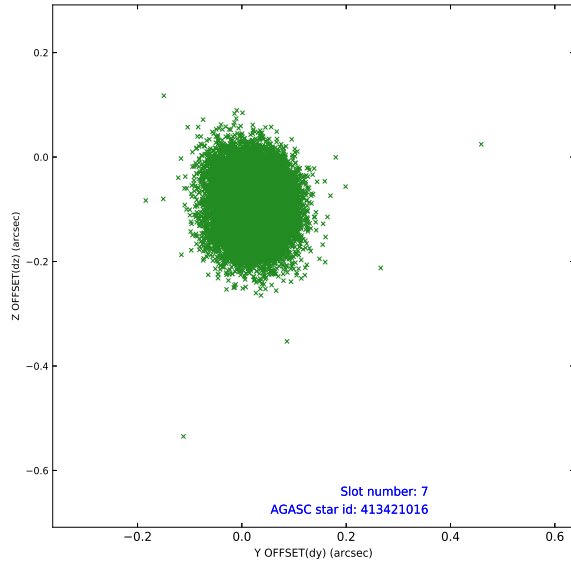
2.4.3 Slot 5



2.4.4 Slot 6

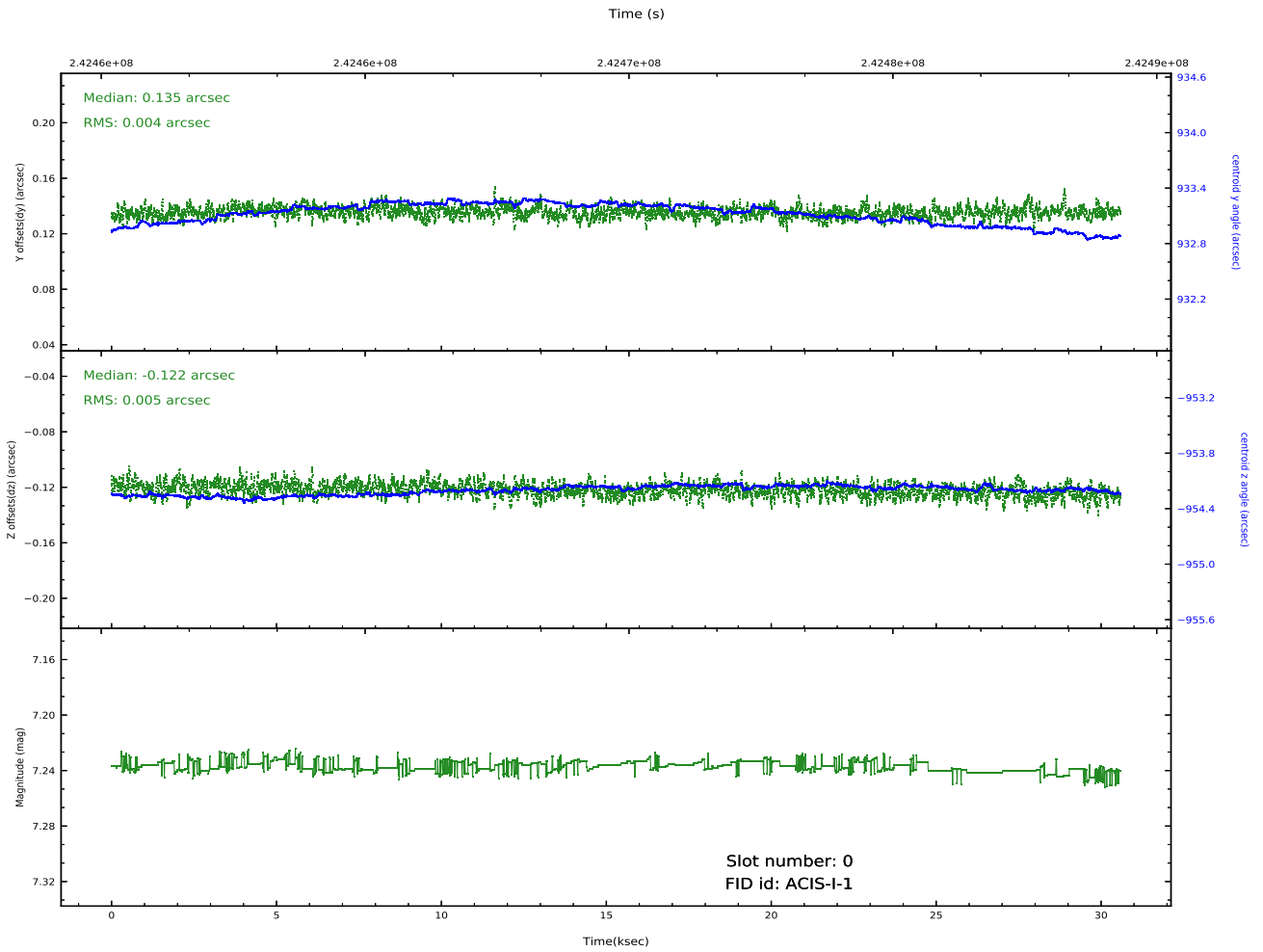
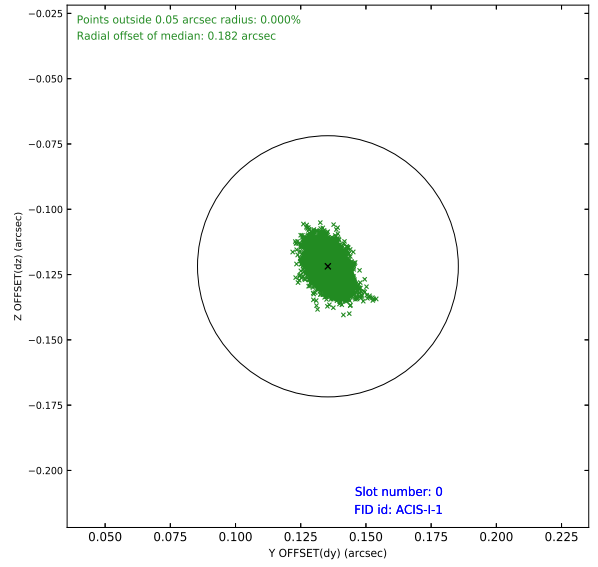
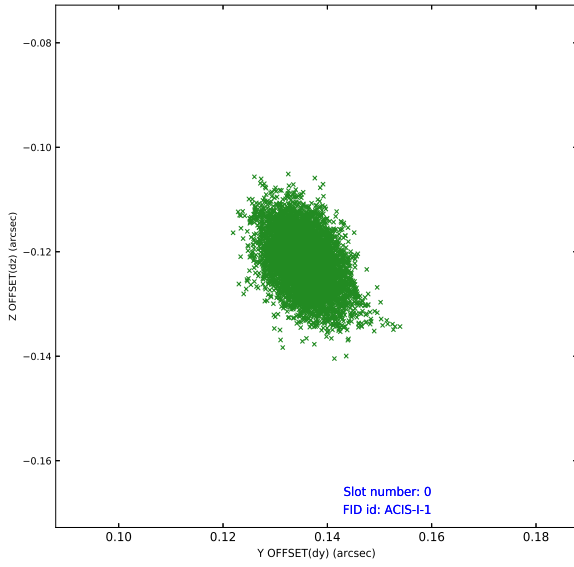


2.4.5 Slot 7

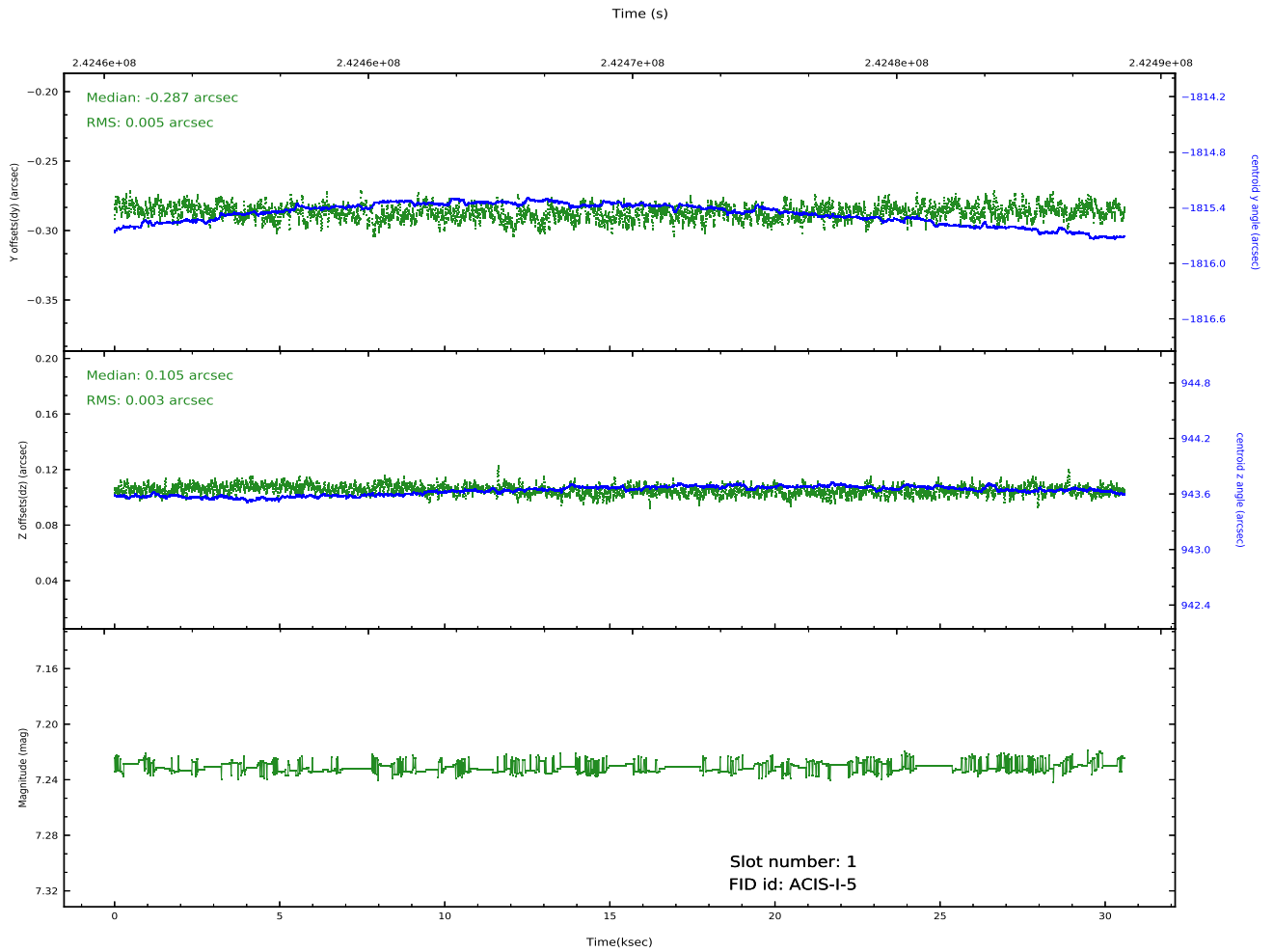
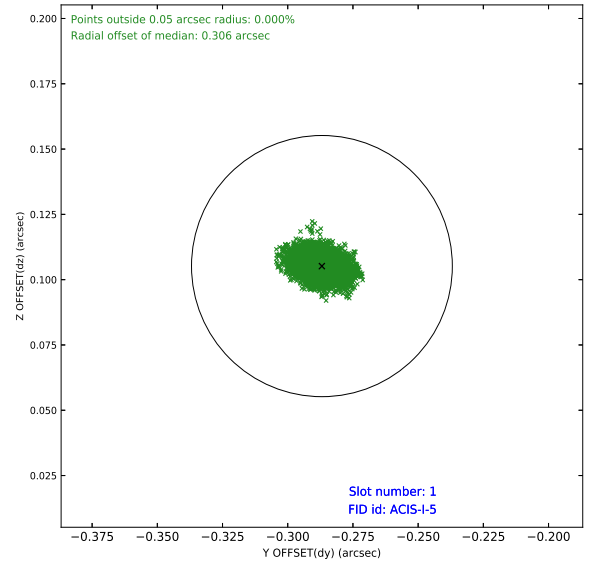
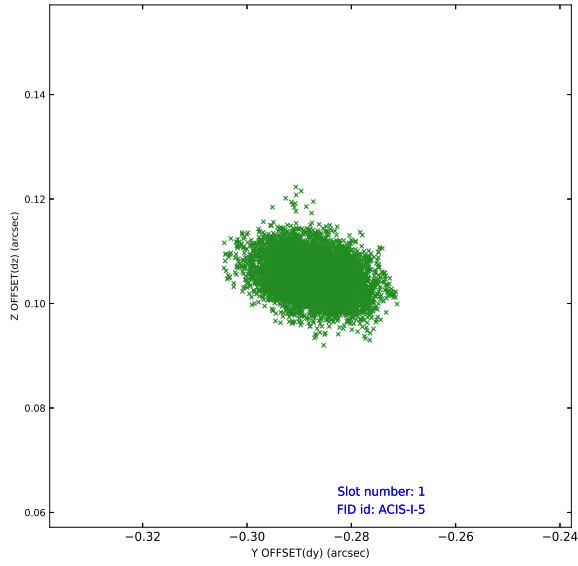


2.5 FID Slots

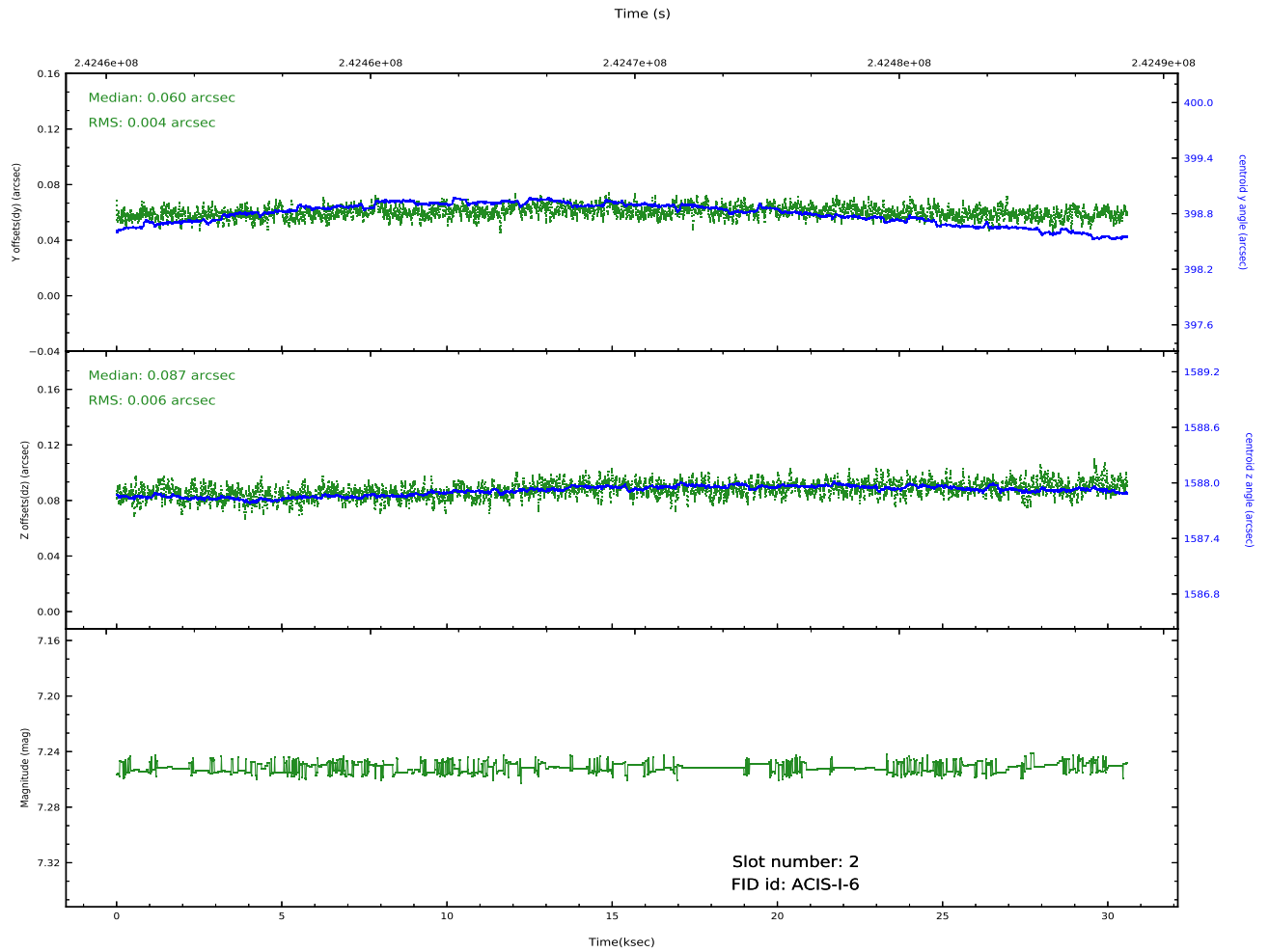
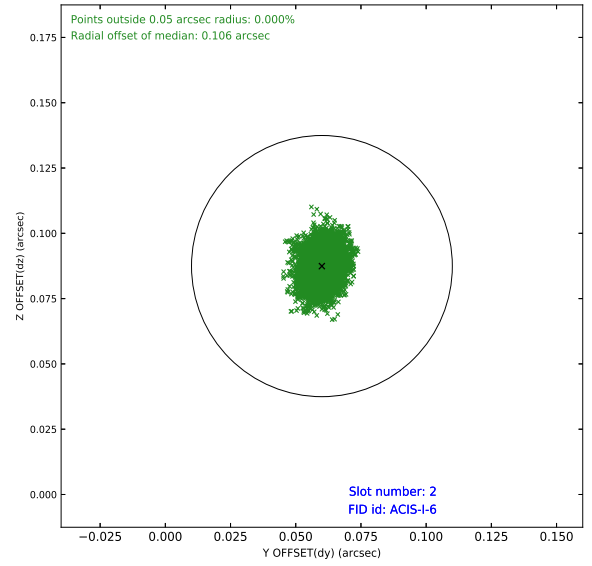
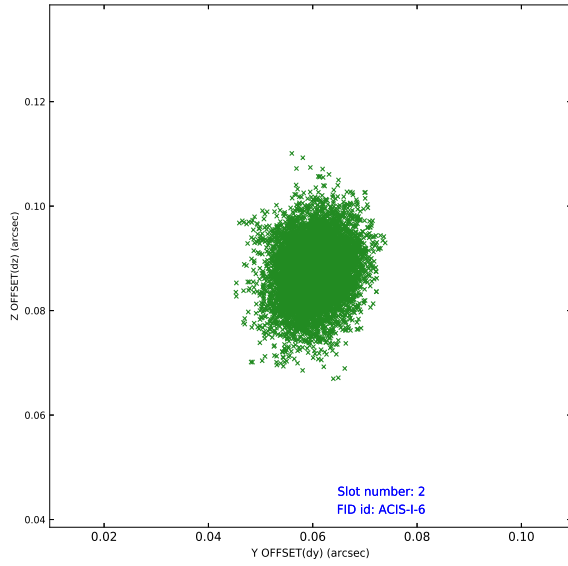
2.5.1 Slot 0



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)	2020.10.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.04515

A.2 Comments