

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5179 - L2 Version 4
Chandra X-Ray Center

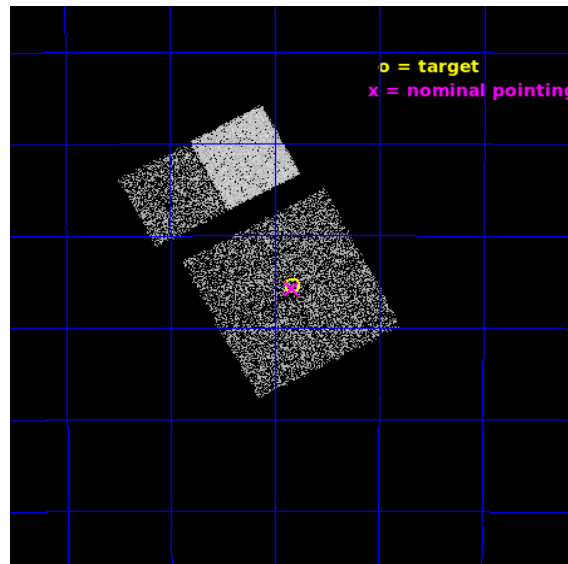
L2 Processing Date : Sep 27 2020

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

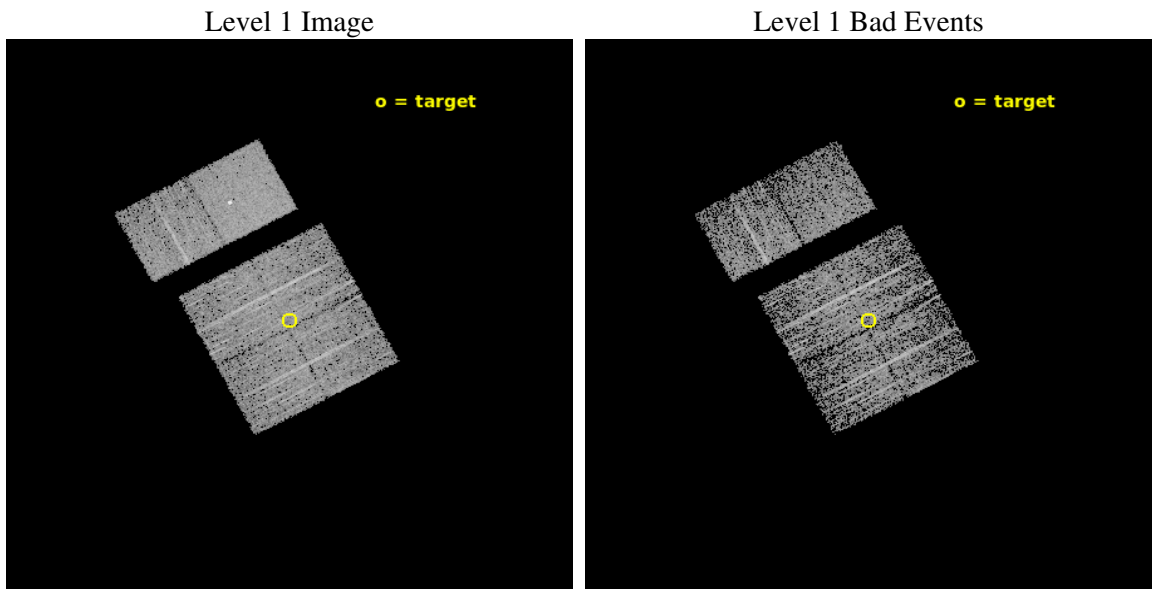
seq_num	200287	Sequence number
obs_id	5179	Observation id
title	Alternate - Search for beta Pic analogs extension	Proposal title
observer	Gordon Garmire	Principal investigator
object	HR 6749	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	271.707917	Observer's specified target RA [deg]
dec_targ	-43.425	Observer's specified target Dec [deg]
ra_nom	271.70864791069	Nominal RA [deg]
dec_nom	-43.429941275546	Nominal Dec [deg]
roll_nom	331.76322202778	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2862.9880972803	Sum of GTIs [s]
livetime	2826.735218108	Livetime [s]
ontime0	2862.8649773002	Sum of GTIs [s]
ontime1	2862.9060172737	Sum of GTIs [s]
ontime2	2862.947057277	Sum of GTIs [s]
ontime3	2862.9880972803	Sum of GTIs [s]
ontime6	2863.0701772869	Sum of GTIs [s]
ontime7	2863.0291372836	Sum of GTIs [s]
l2events	23480	Number of level 2 events



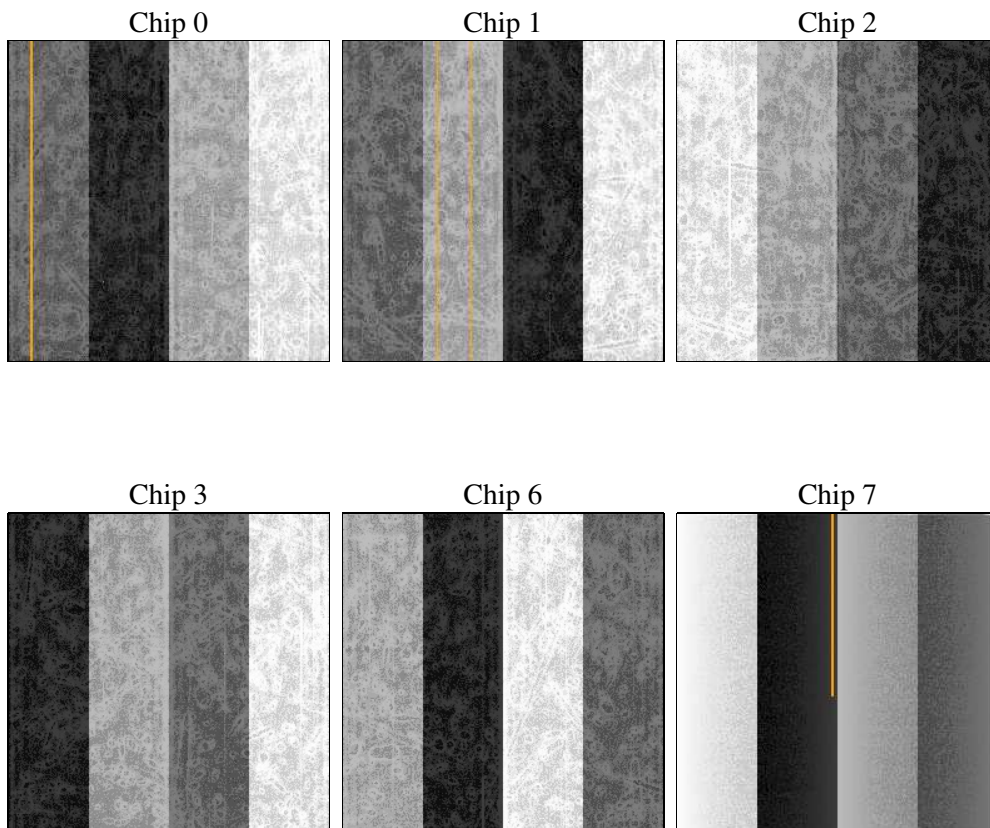
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2903.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2862.9880972803	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	2862.8649773002	Sum of GTIs [s]
date	2020-09-27T03:37:31	Date and time of file creation	ontime1	2862.9060172737	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	2862.947057277	Sum of GTIs [s]
			ontime3	2862.9880972803	Sum of GTIs [s]
			ontime6	2863.0701772869	Sum of GTIs [s]
			ontime7	2863.0291372836	Sum of GTIs [s]
			l1events	135263	Number of level 1 events

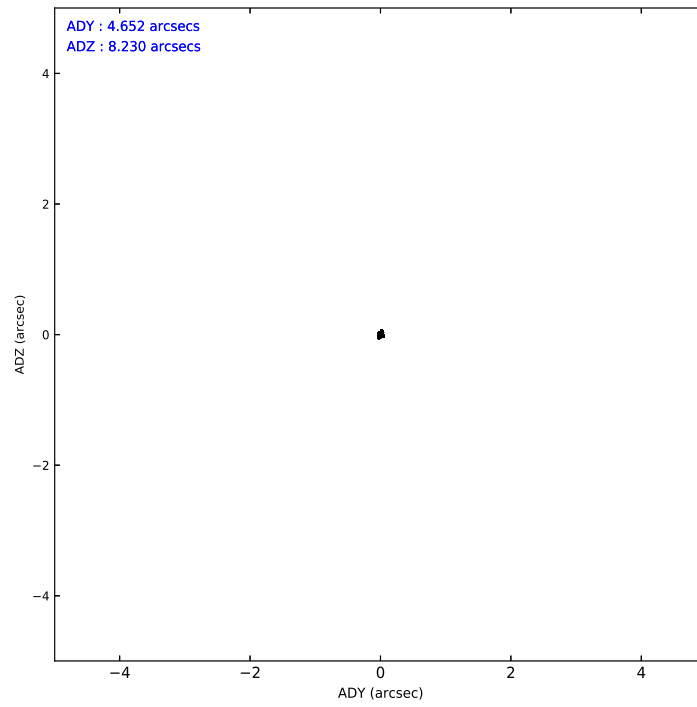
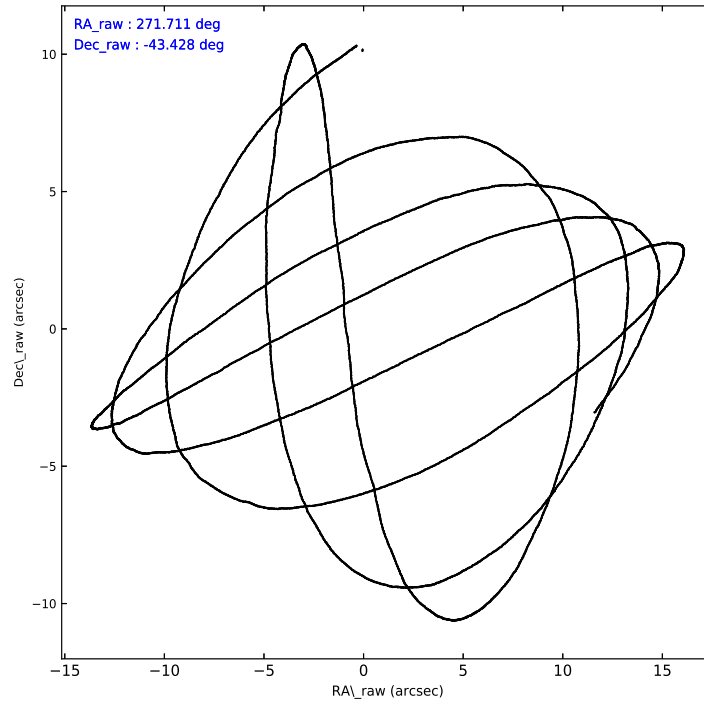
2.1.4 Events

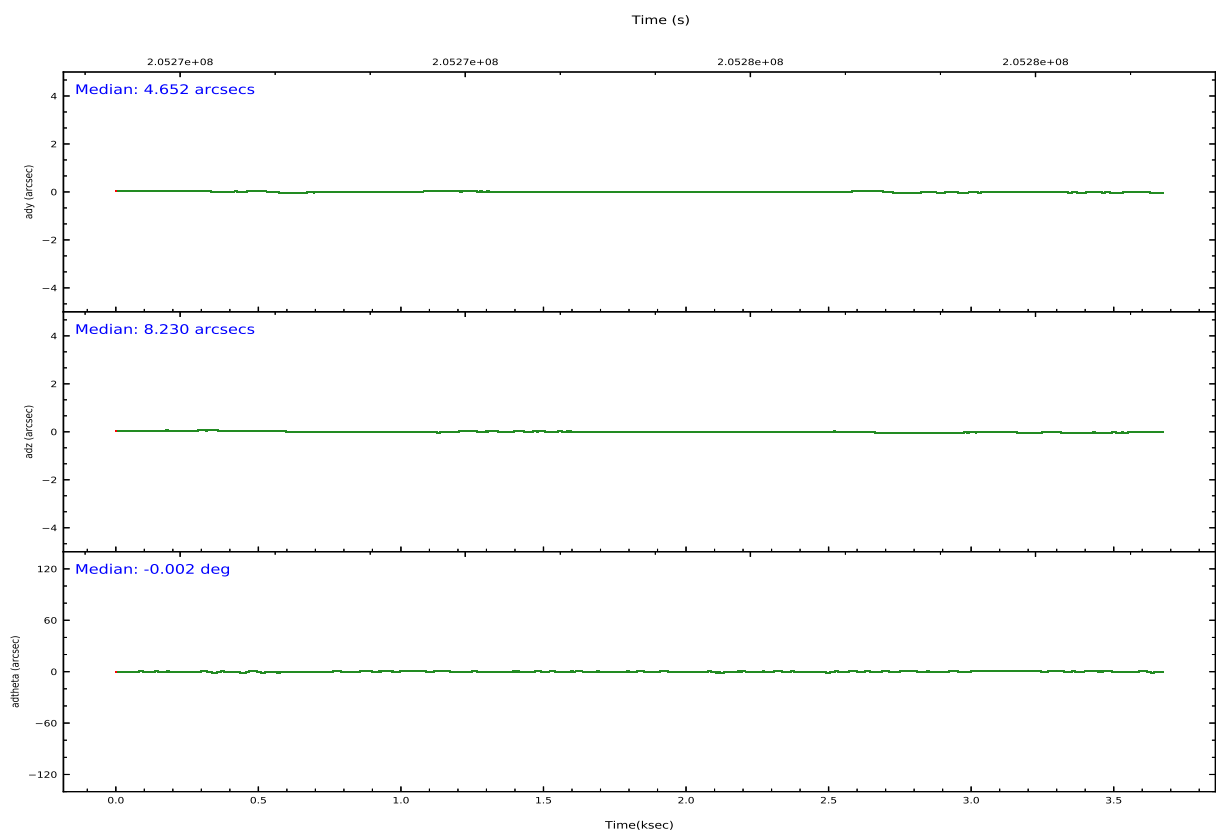
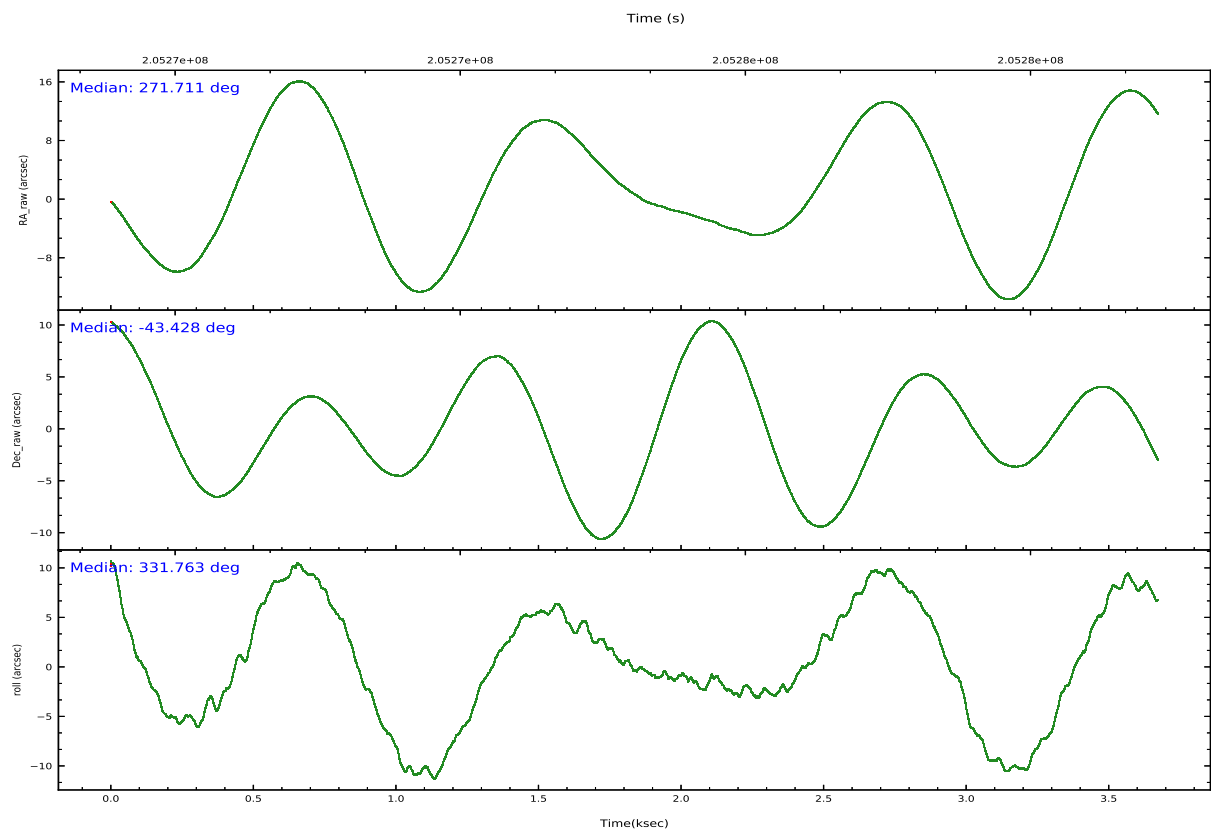
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	20190	19862	22852	21122	21569	29668	grade 0 events	1248	1229	1225	1226	1207	2079
rejected events	17423	17011	20238	18482	18904	16597		6%	6%	5%	5%	5%	7%
rejected %	86%	85%	88%	87%	87%	55%	grade 1 events	21	15	14	8	8	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	567	558	503	486	479	2387
								2%	2%	2%	2%	2%	8%
							grade 3 events	248	262	247	254	254	1087
								1%	1%	1%	1%	1%	3%
							grade 4 events	248	289	236	235	260	1120
								1%	1%	1%	1%	1%	3%
							grade 5 events	871	937	854	952	990	2754
								4%	4%	3%	4%	4%	9%
							grade 6 events	465	519	409	449	470	6436
								2%	2%	1%	2%	2%	21%
							grade 7 events	16522	16053	19364	17512	17901	13776
								81%	80%	84%	82%	82%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	271.674232	271.70864791069	Subarray requested	NONE	NONE
[deg] Pointing Dec	-43.429564	-43.429941275546	Alternating exposures requested	N	N
[deg] Pointing Roll	331.537380	331.76322202778	[s] Primary exposure time	0.000000	3.2
[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)	205273545.184000	205272293.97481			
Observation start date	2004-07-03T20:24:41	2004-07-03T20:04:53			
[s] Observation end time (MET)	205276448.184000	205277249.33753			
Observation end date	2004-07-03T21:13:04	2004-07-03T21:27:29			
Read mode	TIMED	TIMED			

2.3 Aspect



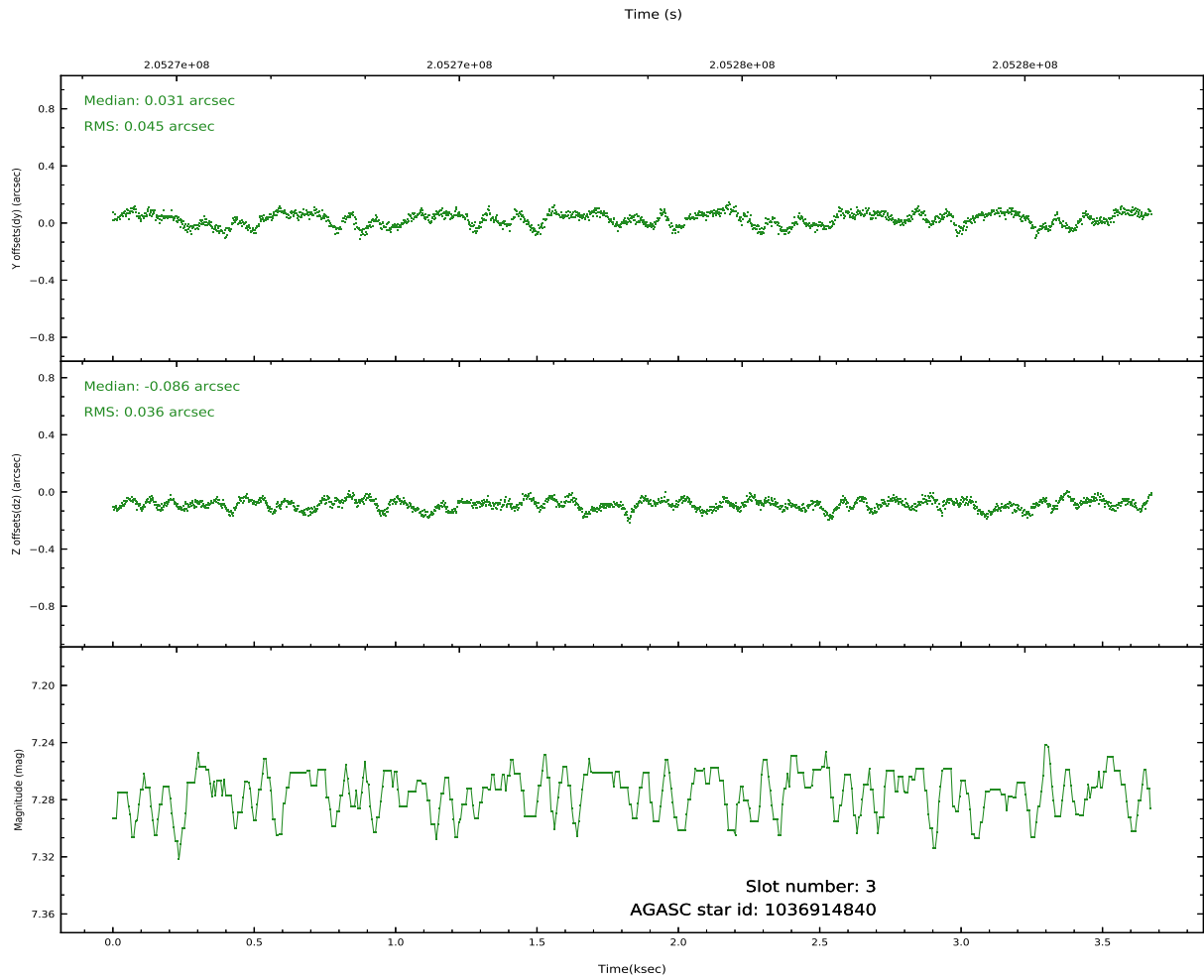
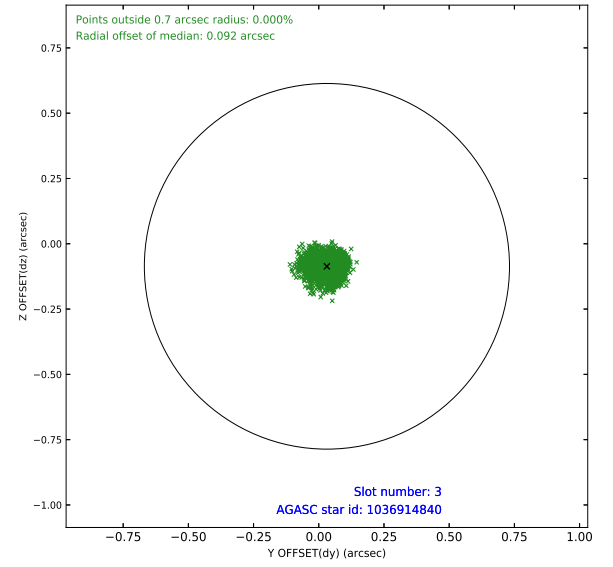
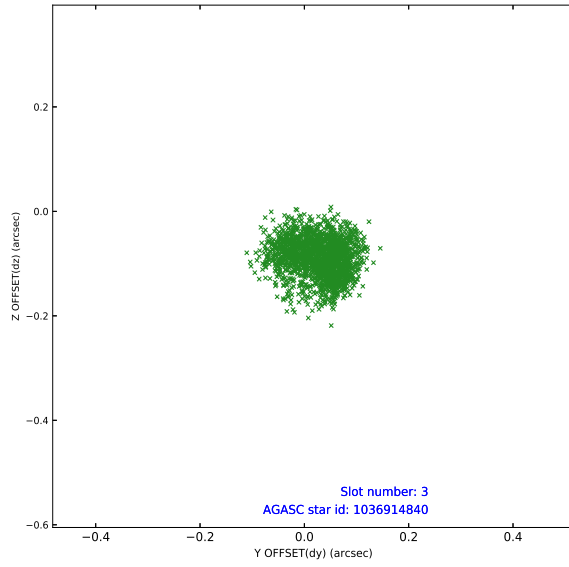


Slot Statistics

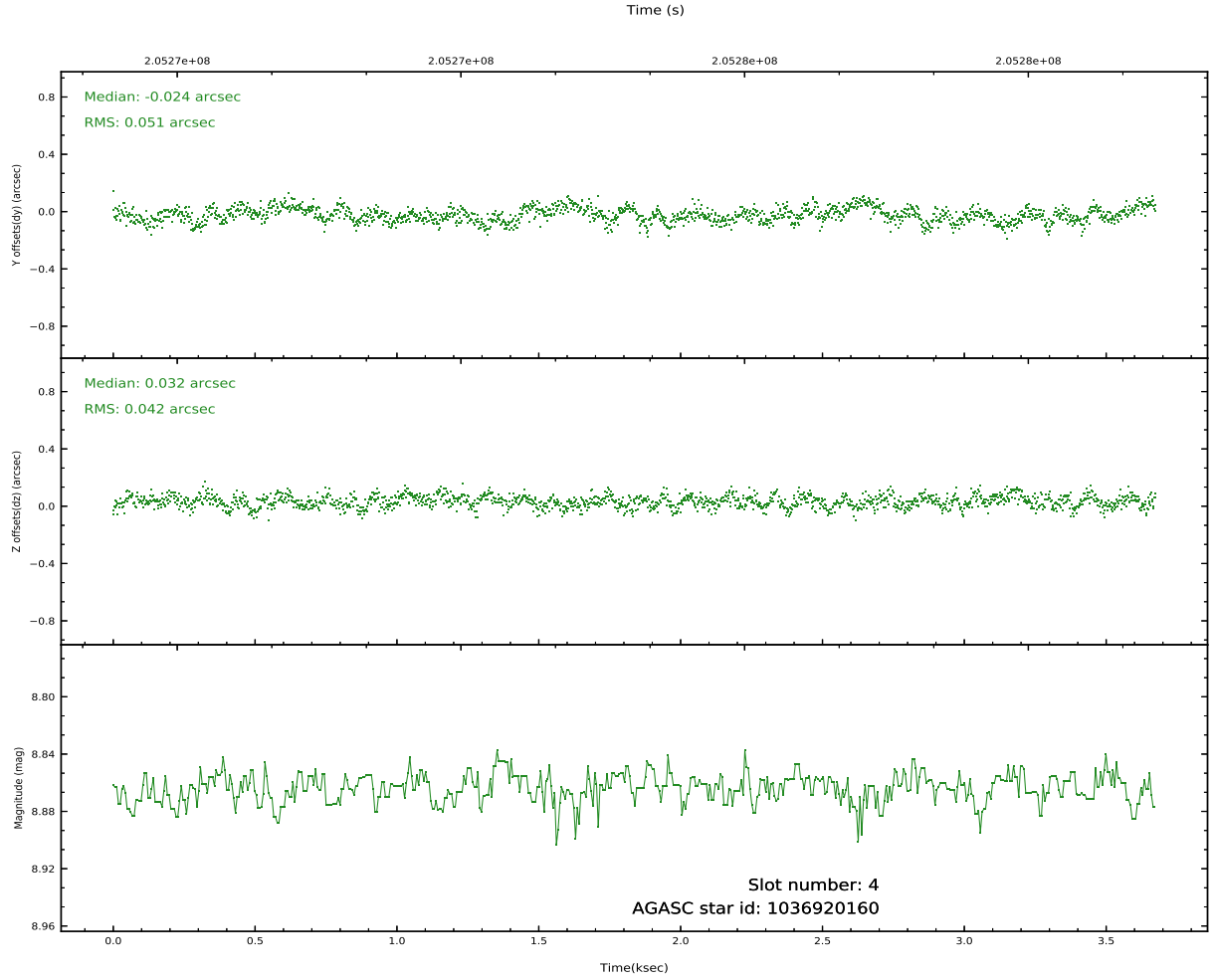
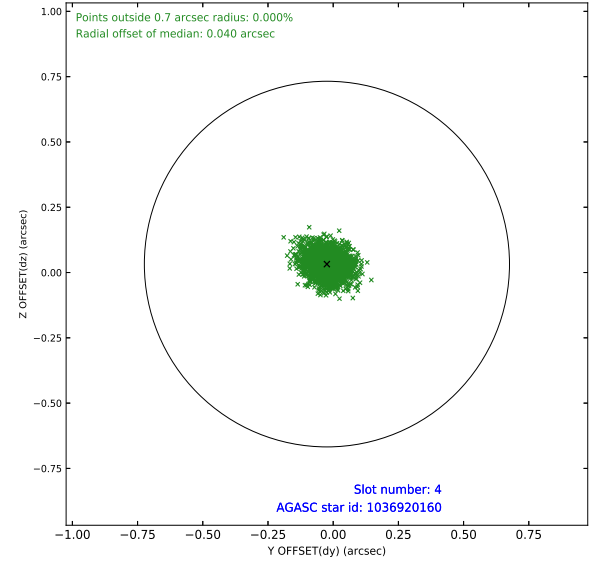
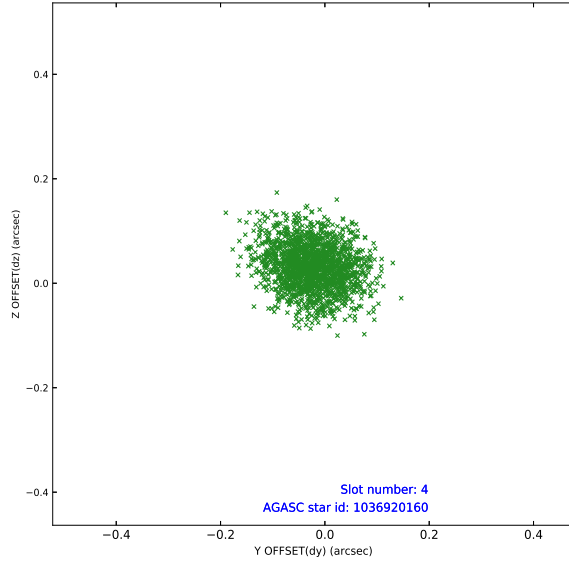
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	896	1.000	0.050	0.002	0.007	0.012	0.000000	0.000000	935.15	-831
1	FID		ACIS-I-5	7.23	897	1.000	-0.219	0.057	0.006	0.011	0.000000	0.000000	-1812.28	1065
2	FID		ACIS-I-6	7.25	897	1.000	0.077	0.011	0.008	0.012	0.000000	0.000000	398.85	1711
3	GUIDE	used	1036914840	7.27	1793	1.000	0.031	-0.086	0.062	0.095	271.918096	-43.392043	497.45	421
4	GUIDE	used	1036920160	8.86	1793	1.000	-0.024	0.032	0.071	0.114	271.830191	-43.925169	1207.14	-1375
5	GUIDE	used	1036921120	8.66	1792	1.000	0.001	0.016	0.069	0.112	271.843906	-44.157071	1635.27	-2094
6	GUIDE	used	1036945328	9.10	1793	1.000	0.010	0.016	0.083	0.139	271.207896	-43.840237	-356.44	-1881
7	GUIDE	used	1036395792	9.17	1792	1.000	-0.016	0.024	0.079	0.126	271.618591	-42.763132	-1272.75	2037

2.4 Star Slots

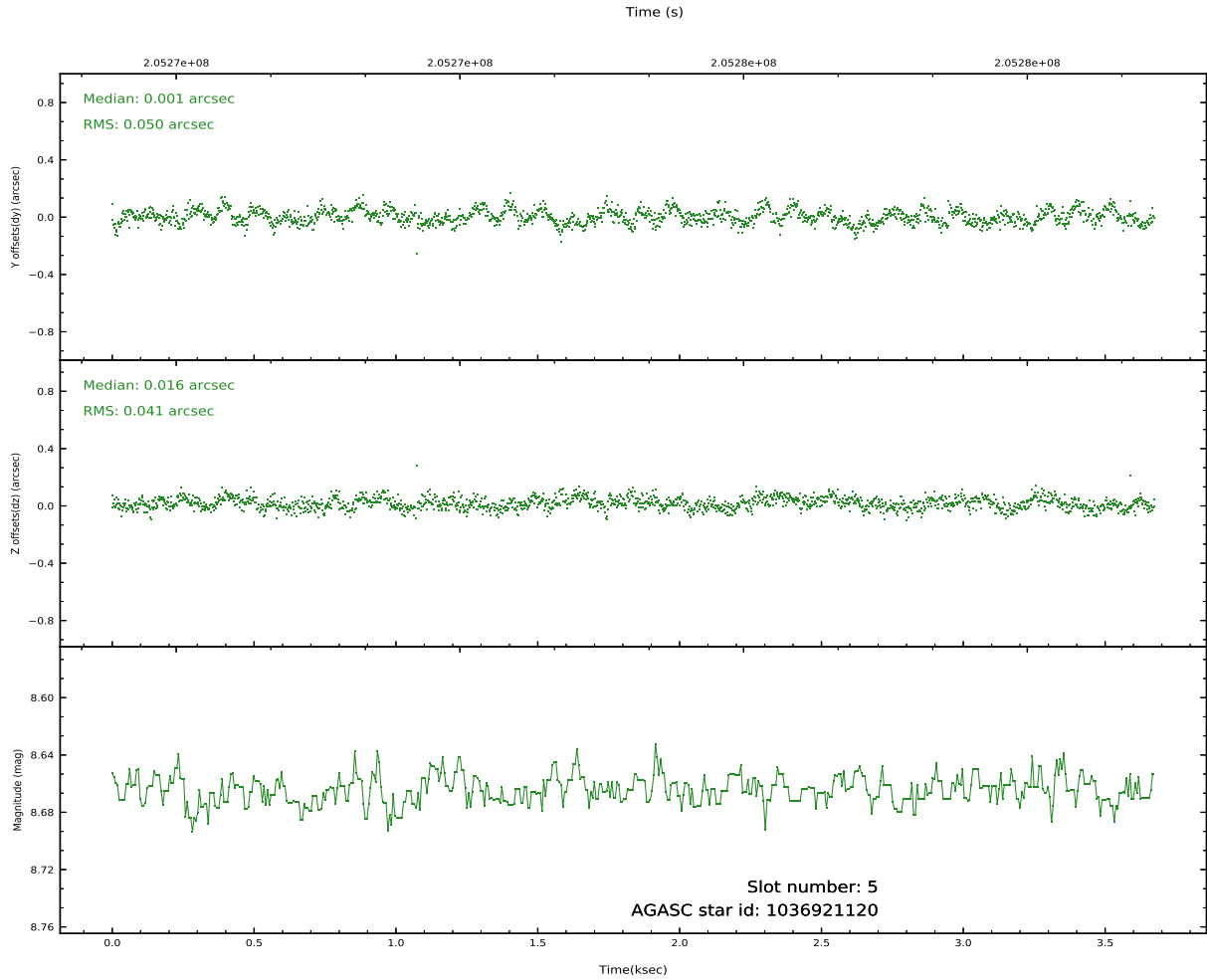
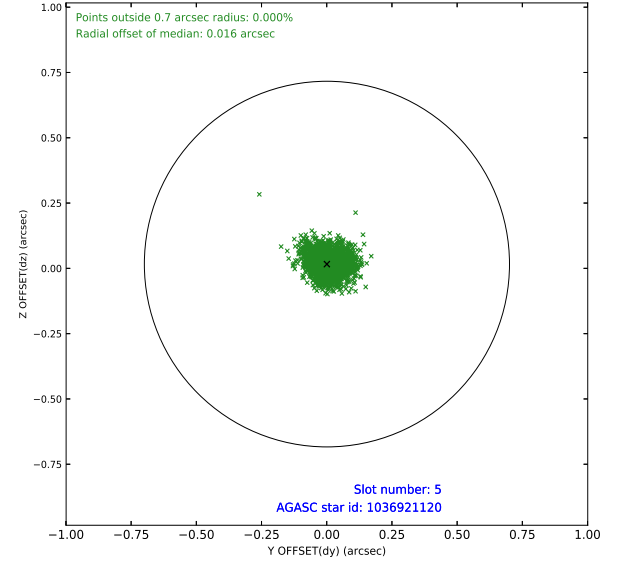
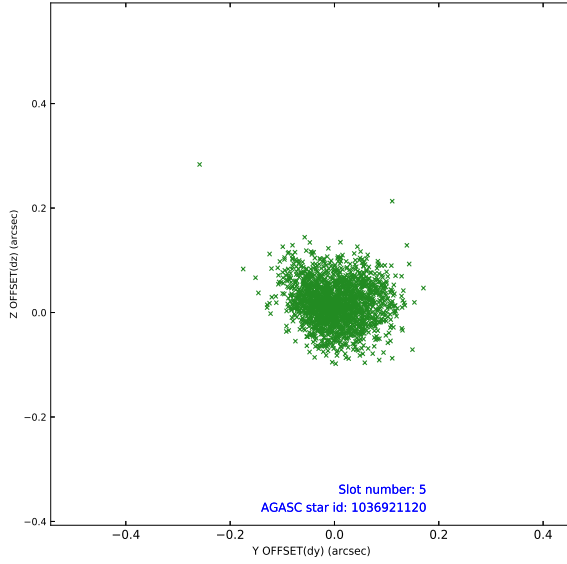
2.4.1 Slot 3



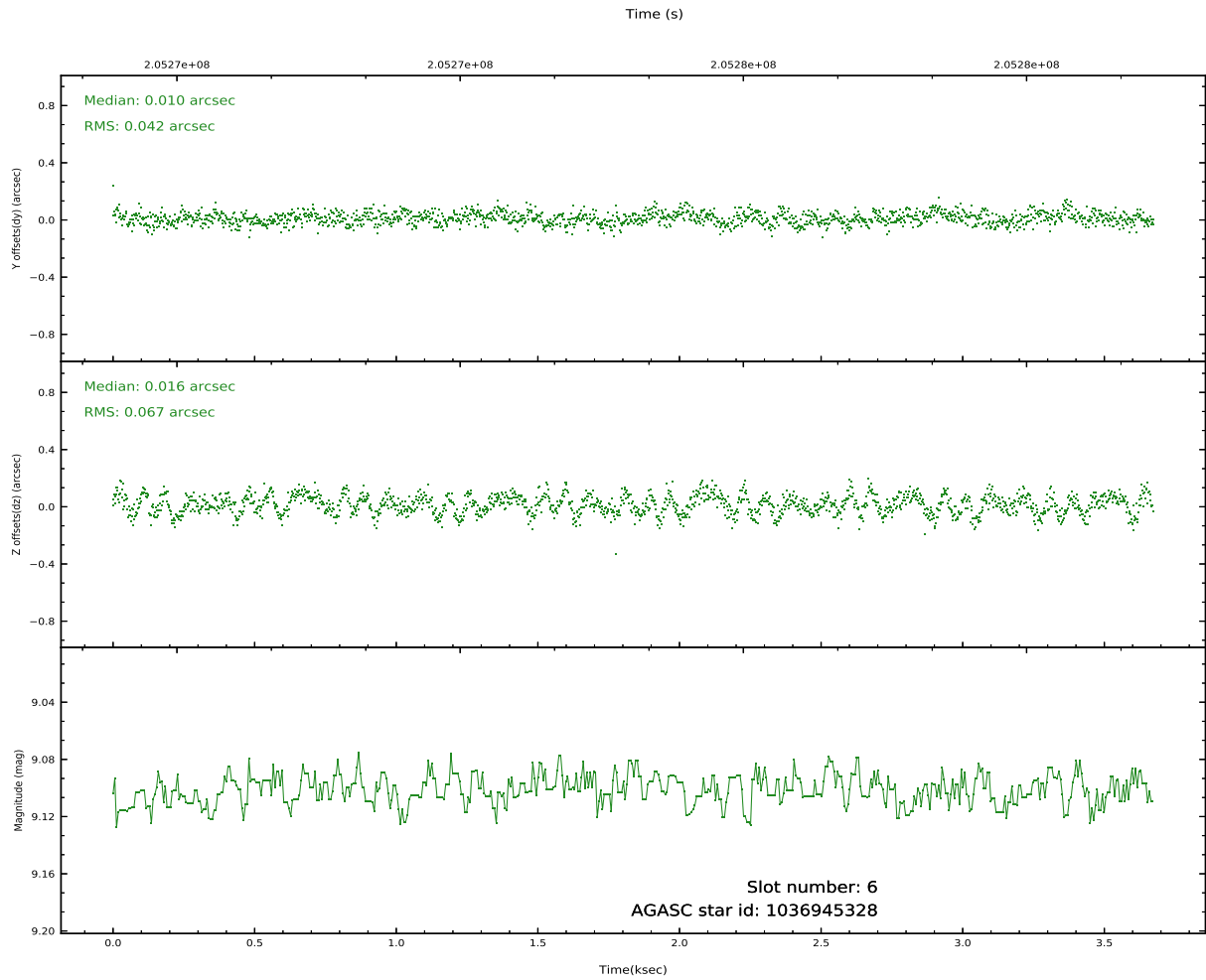
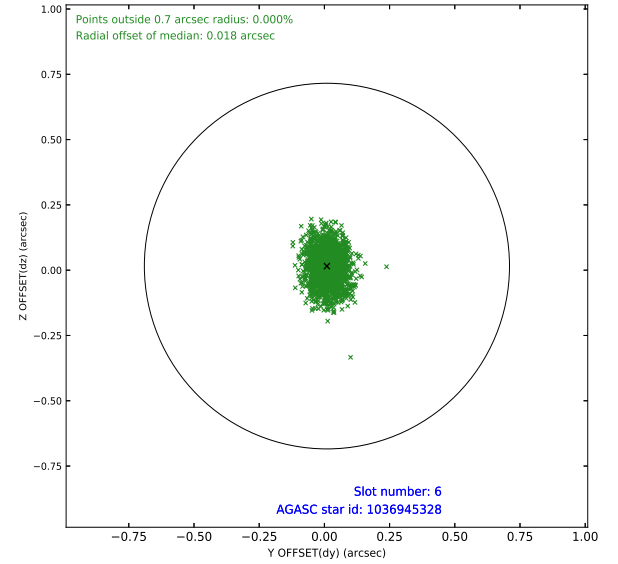
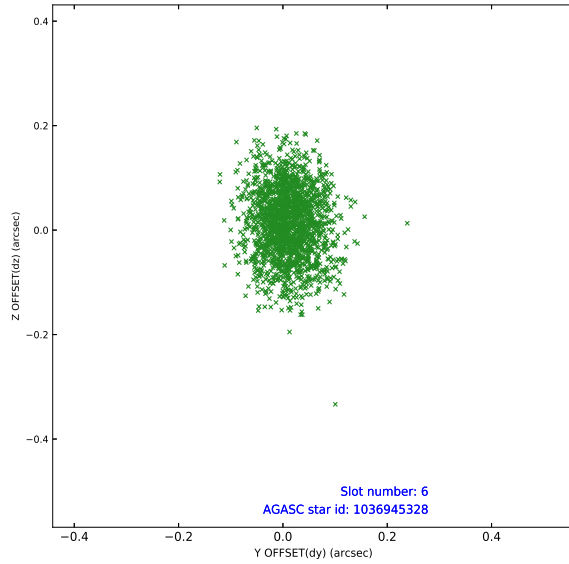
2.4.2 Slot 4



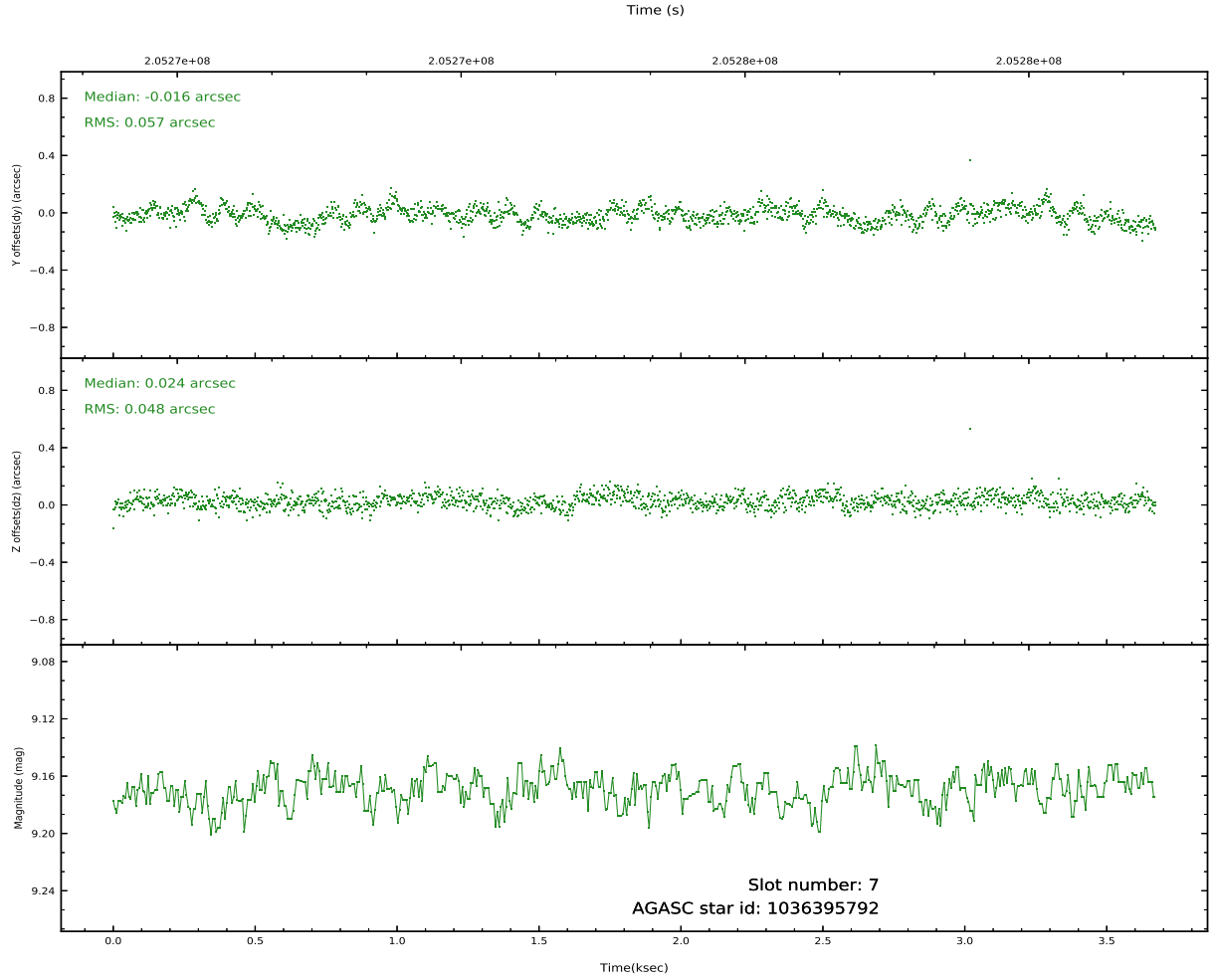
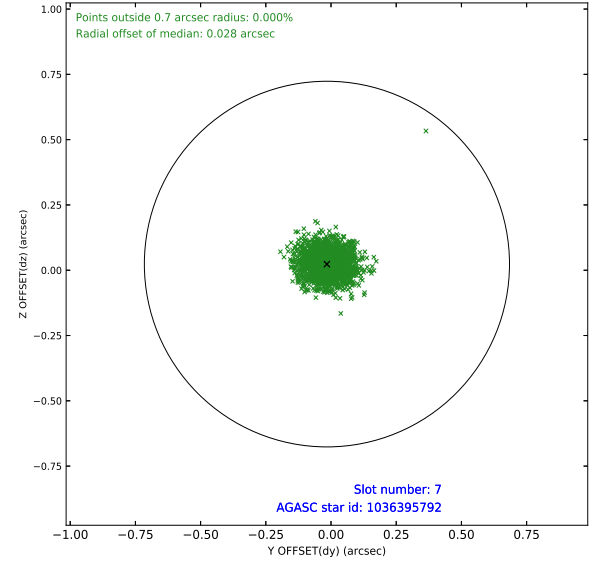
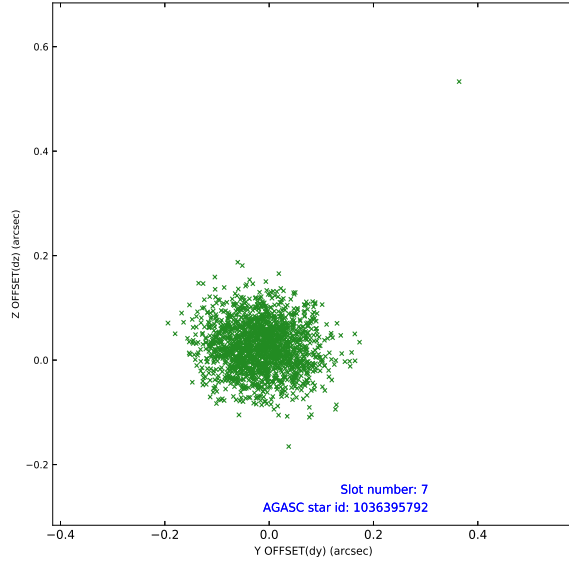
2.4.3 Slot 5



2.4.4 Slot 6

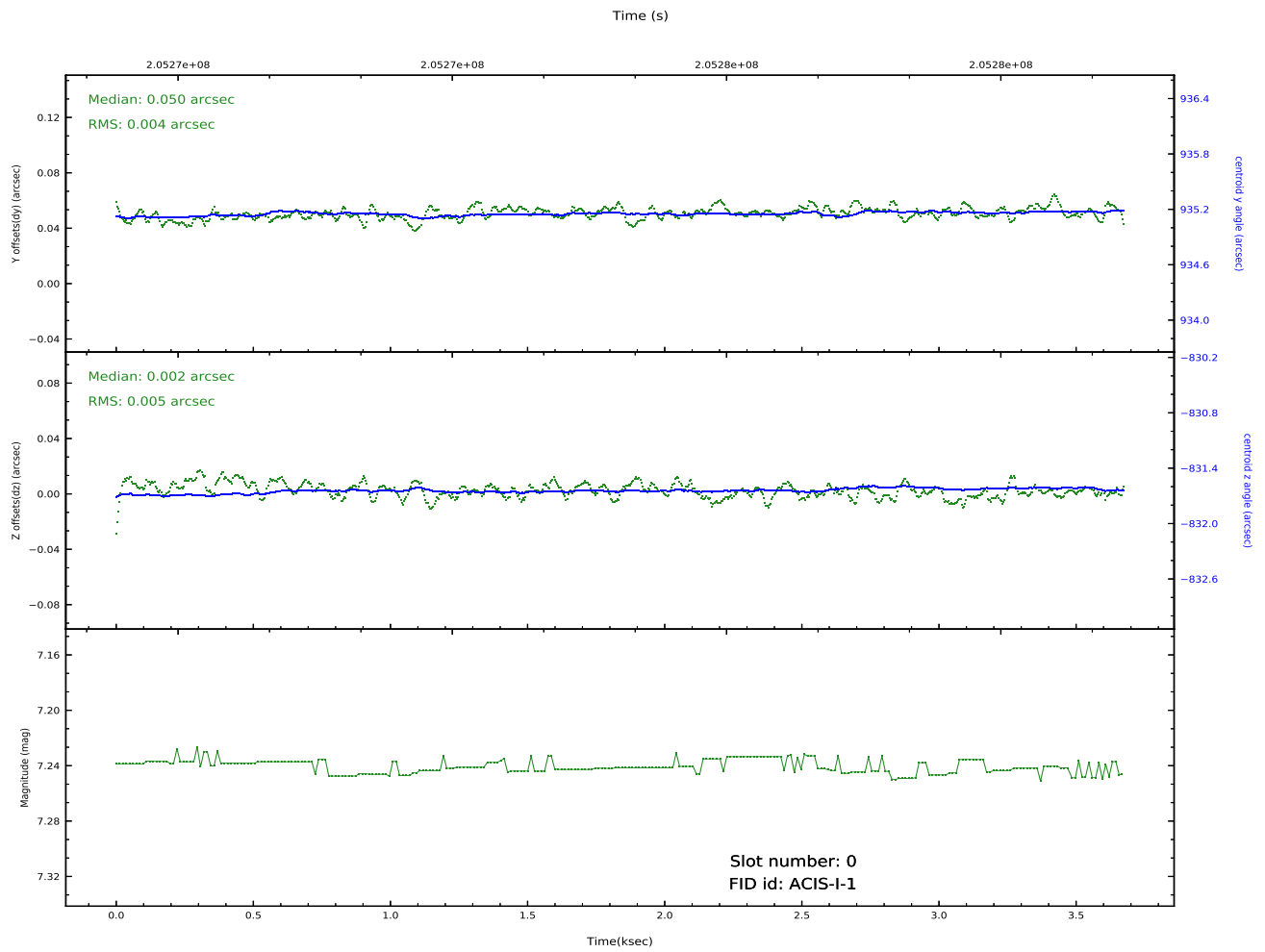
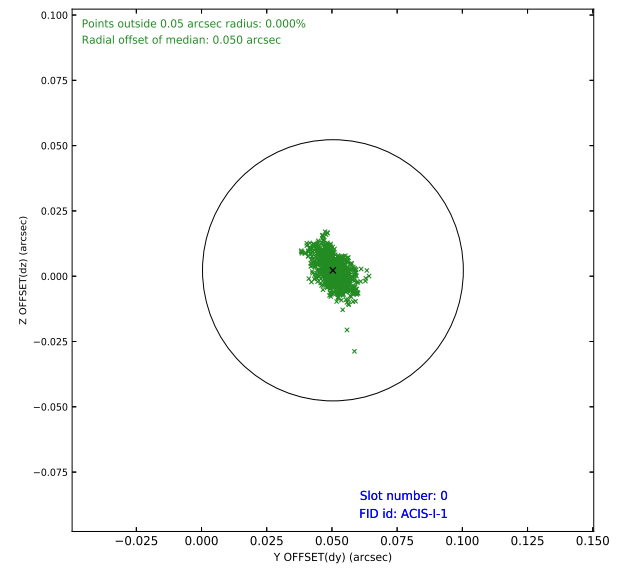
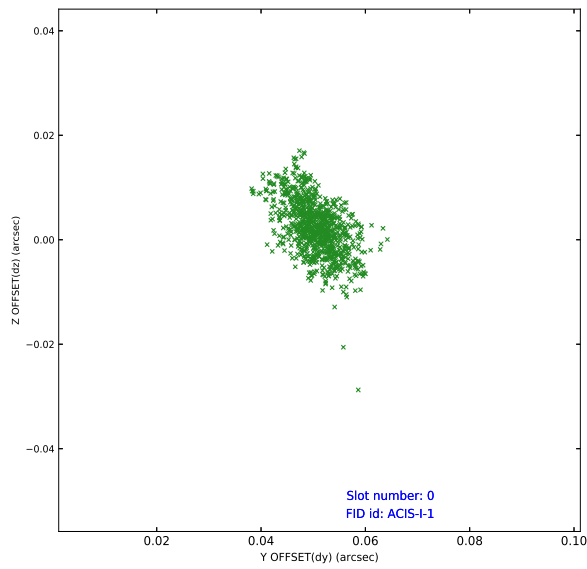


2.4.5 Slot 7

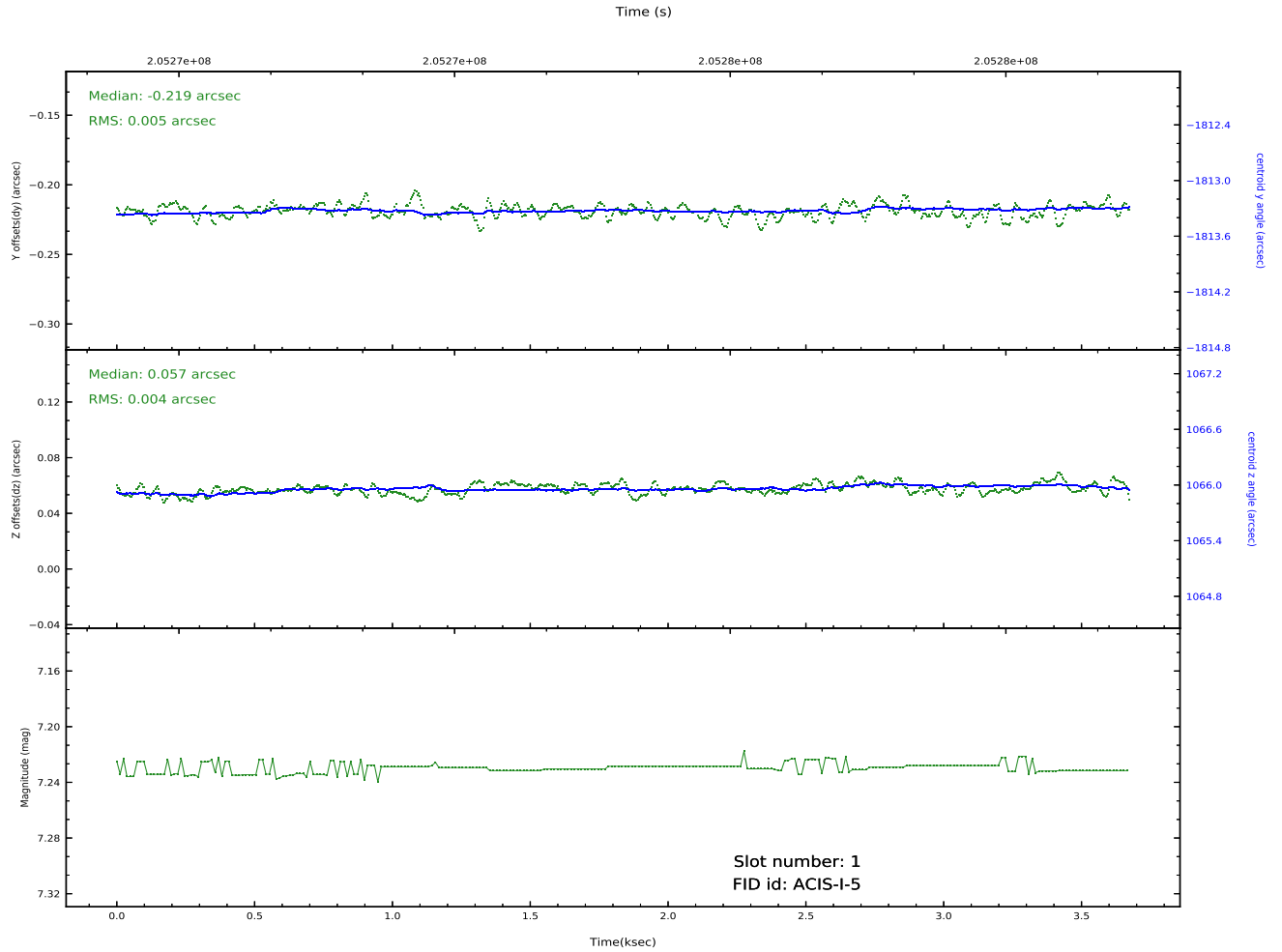
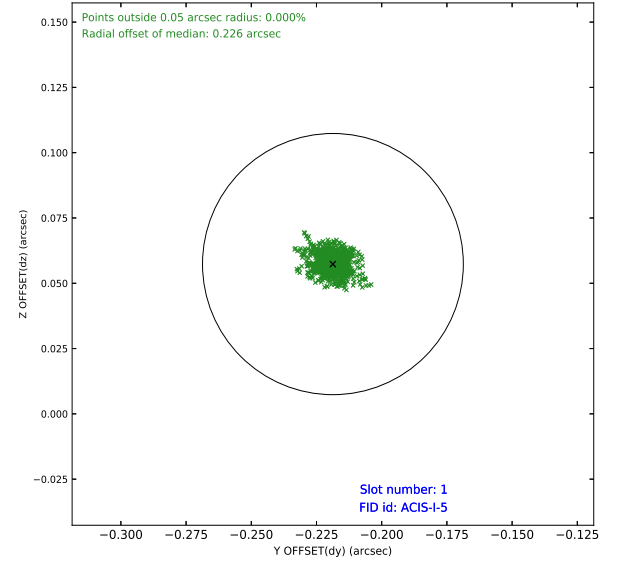
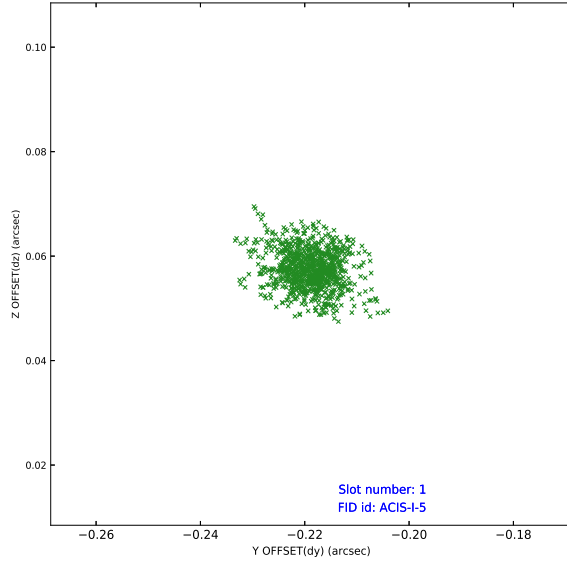


2.5 FID Slots

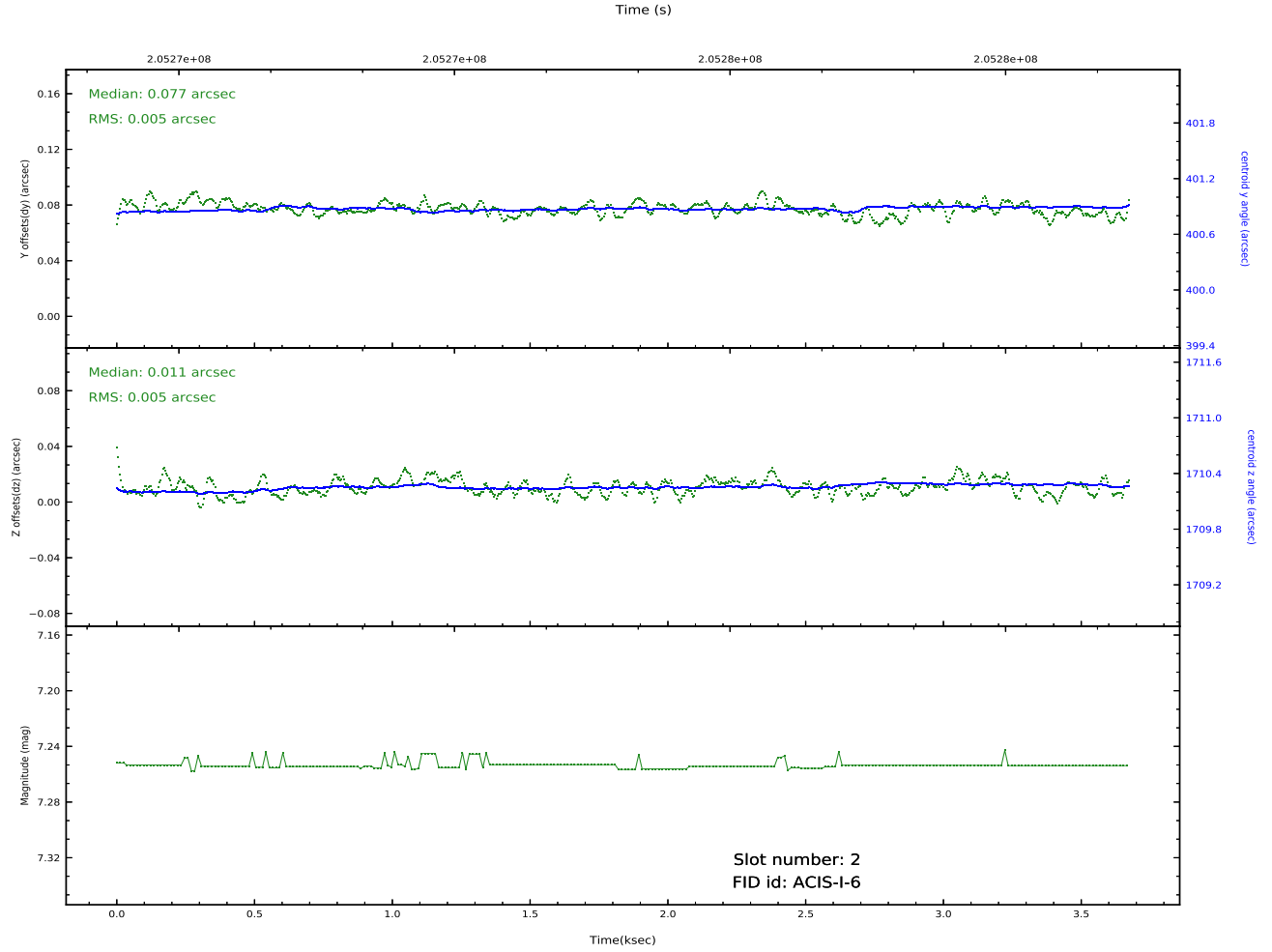
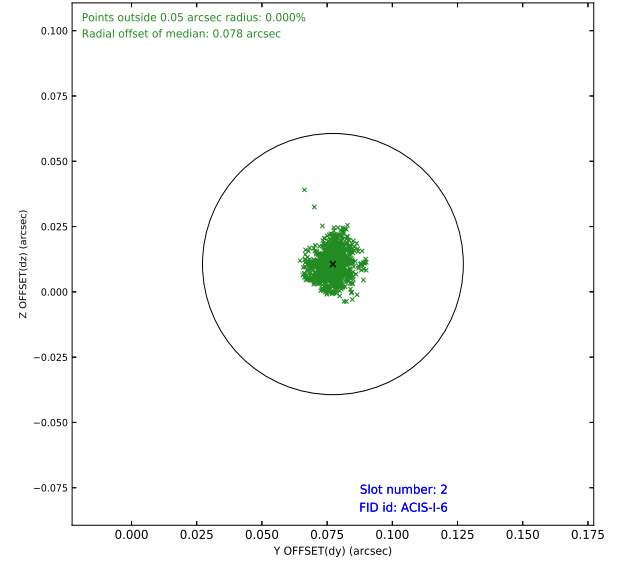
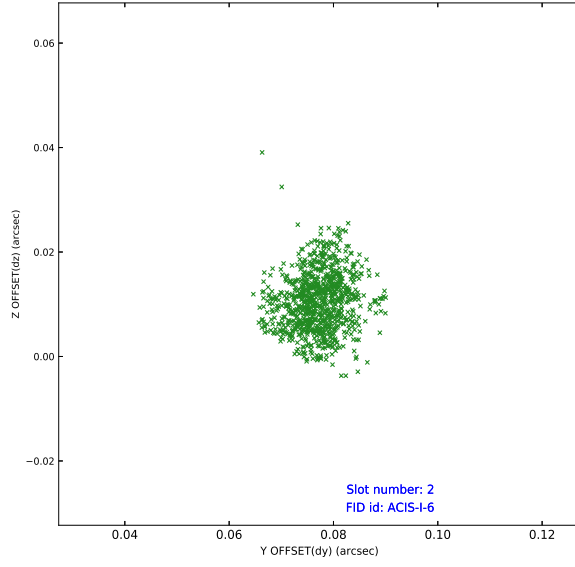
2.5.1 Slot 0



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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.863

A.2 Comments