

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5184 - L2 Version 4
Chandra X-Ray Center

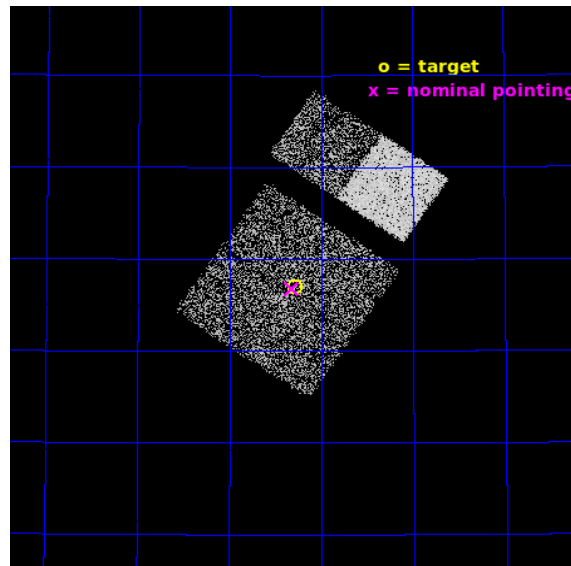
L2 Processing Date : Sep 24 2020

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1 Front

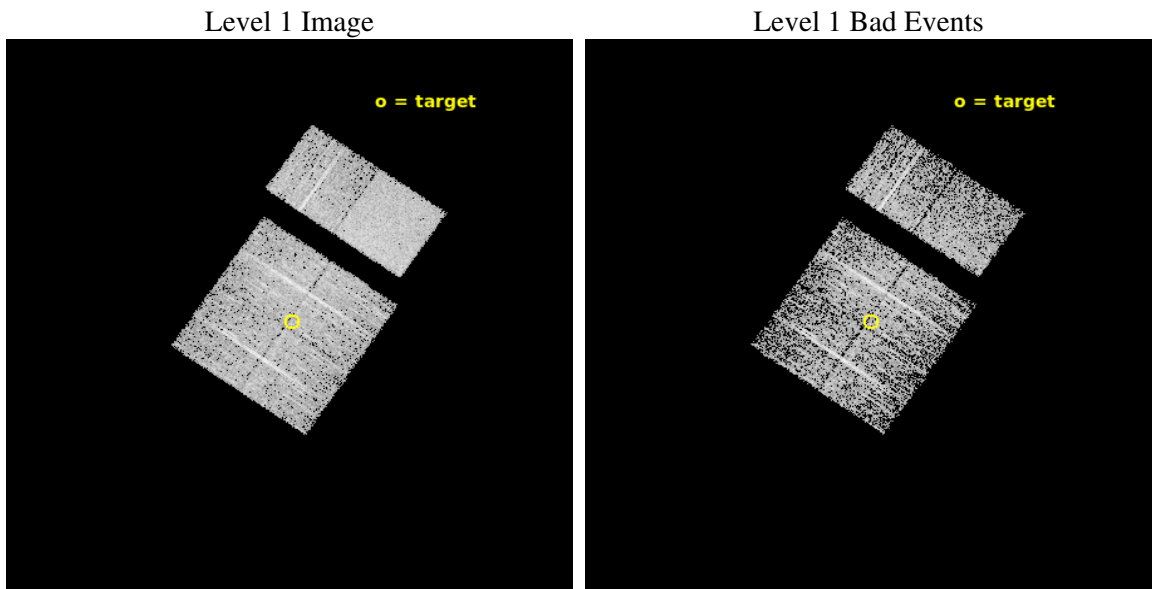
seq_num	200292	Sequence number
obs_id	5184	Observation id
title	Alternate - Search for beta Pic analogs extension	Proposal title
observer	Gordon Garmire	Principal investigator
object	alpha Lac	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	337.8225	Observer's specified target RA [deg]
dec_targ	50.2825	Observer's specified target Dec [deg]
ra_nom	337.83001144861	Nominal RA [deg]
dec_nom	50.279649363694	Nominal Dec [deg]
roll_nom	34.501943873534	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3020.7999887466	Sum of GTIs [s]
livetime	2982.5488003818	Livetime [s]
ontime0	3020.7910909653	Sum of GTIs [s]
ontime1	3020.7999887466	Sum of GTIs [s]
ontime2	3020.7999887466	Sum of GTIs [s]
ontime3	3020.7999887466	Sum of GTIs [s]
ontime6	3020.7999887466	Sum of GTIs [s]
ontime7	3020.7999887466	Sum of GTIs [s]
l2events	22041	Number of level 2 events



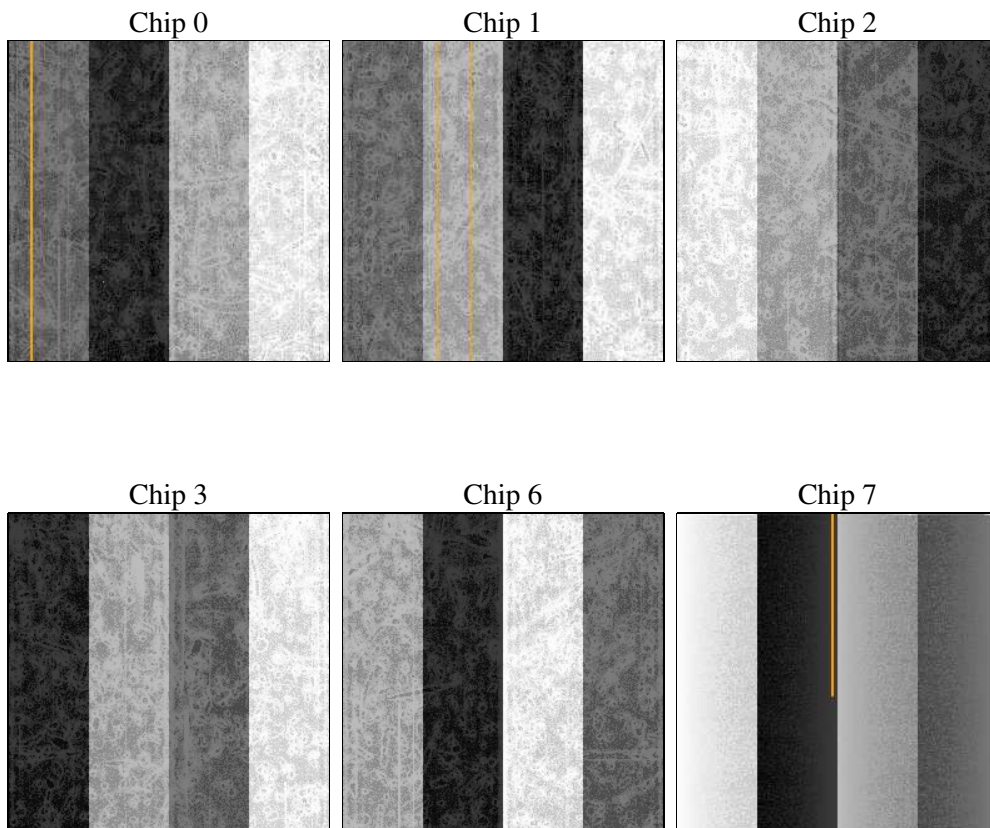
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3020.7999887466	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	3020.7910909653	Sum of GTIs [s]
date	2020-09-24T11:52:58	Date and time of file creation	ontime1	3020.7999887466	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3020.7999887466	Sum of GTIs [s]
			ontime3	3020.7999887466	Sum of GTIs [s]
			ontime6	3020.7999887466	Sum of GTIs [s]
			ontime7	3020.7999887466	Sum of GTIs [s]
			l1events	128483	Number of level 1 events

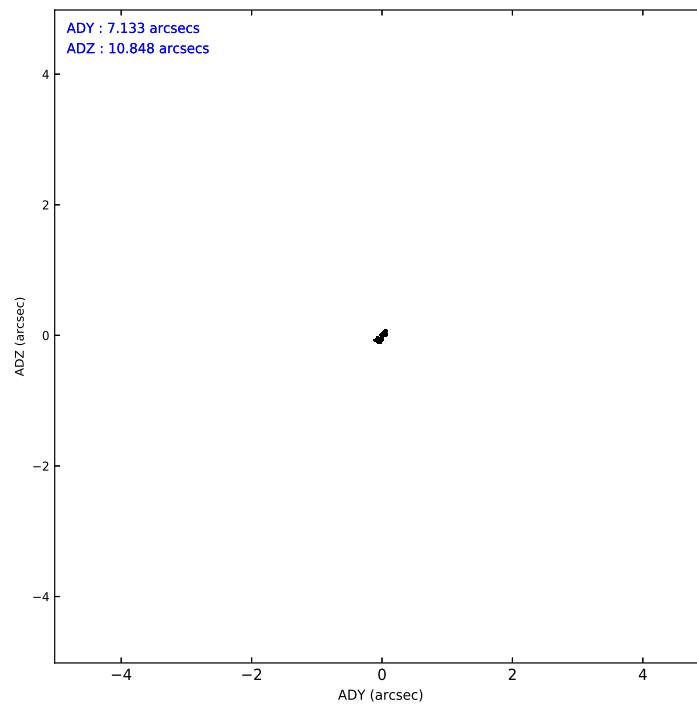
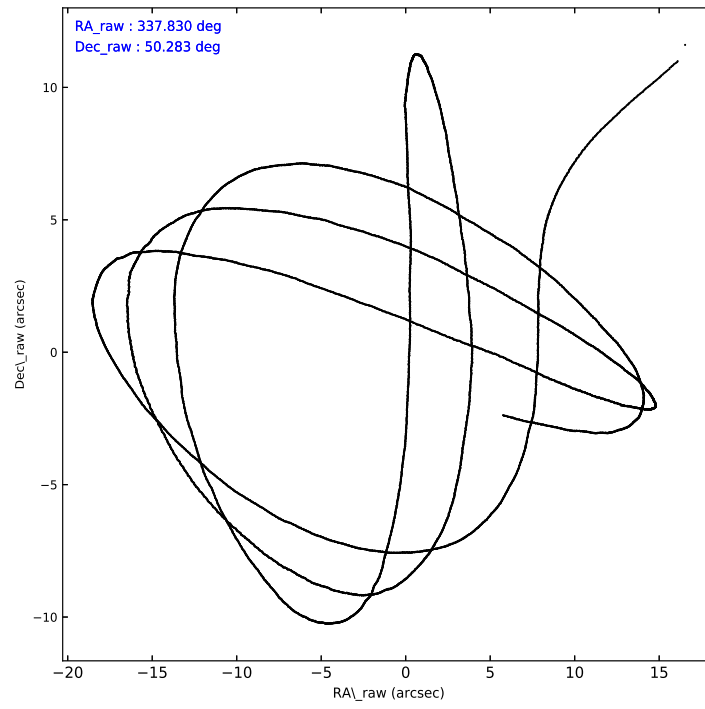
2.1.4 Events

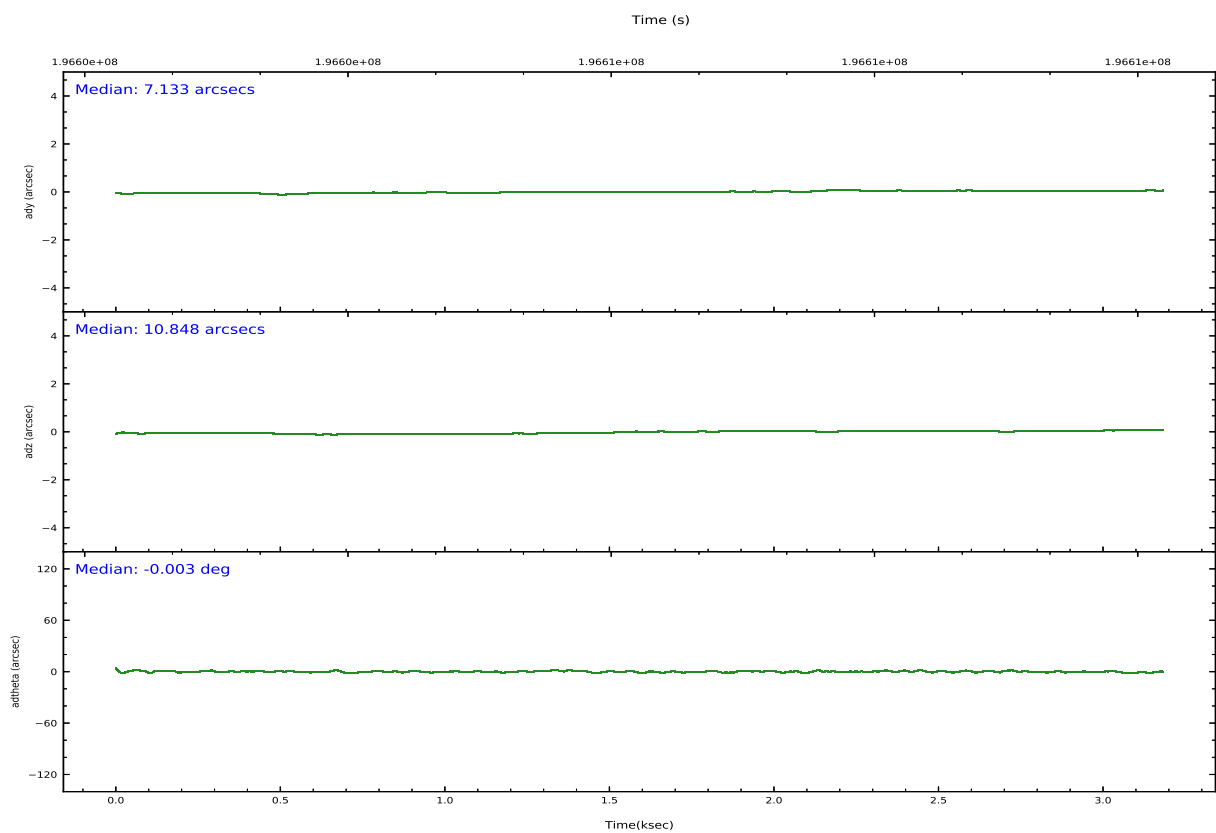
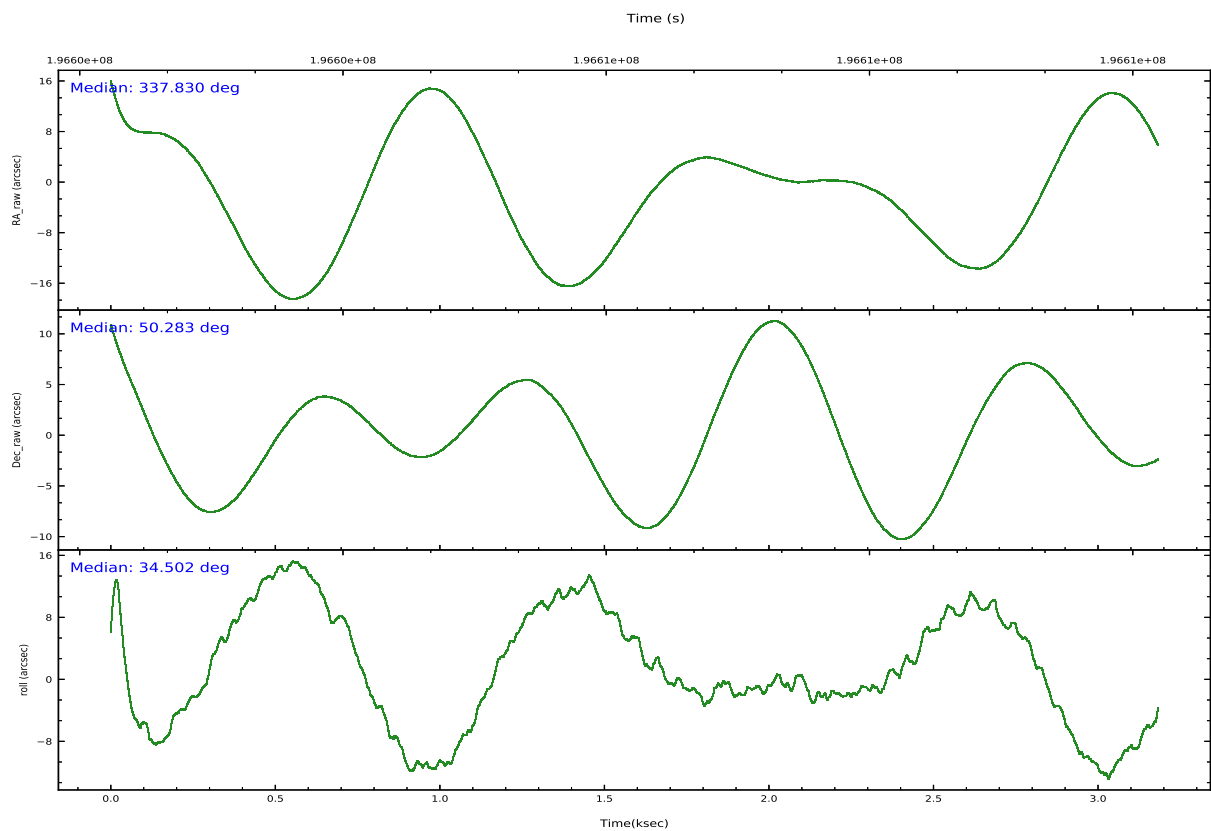
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	17978	19579	21358	20971	20574	28023	grade 0 events	1121	996	1164	1064	992	1025
rejected events	15445	16981	18824	18535	18112	16417		6%	5%	5%	5%	4%	3%
rejected %	85%	86%	88%	88%	88%	58%	grade 1 events	8	13	11	15	17	27
								0%	0%	0%	0%	0%	0%
							grade 2 events	515	602	518	463	547	2305
								2%	3%	2%	2%	2%	8%
							grade 3 events	242	240	238	244	241	1001
								1%	1%	1%	1%	1%	3%
							grade 4 events	229	260	230	232	217	1050
								1%	1%	1%	1%	1%	3%
							grade 5 events	857	900	855	961	999	2688
								4%	4%	4%	4%	4%	9%
							grade 6 events	431	505	388	434	469	6249
								2%	2%	1%	2%	2%	22%
							grade 7 events	14575	16063	17954	17558	17092	13678
								81%	82%	84%	83%	83%	48%

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	337.811332	337.83001144861	Subarray requested	NONE	NONE
[deg] Pointing Dec	50.258658	50.279649363694	Alternating exposures requested	N	N
[deg] Pointing Roll	34.312623	34.501943873534	[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)	196604278.184000	196603286.39221			
Observation start date	2004-03-25T12:16:54	2004-03-25T12:01:26			
[s] Observation end time (MET)	196607278.184000	196608250.46743			
Observation end date	2004-03-25T13:06:54	2004-03-25T13:24:10			
Read mode	TIMED	TIMED			

2.3 Aspect



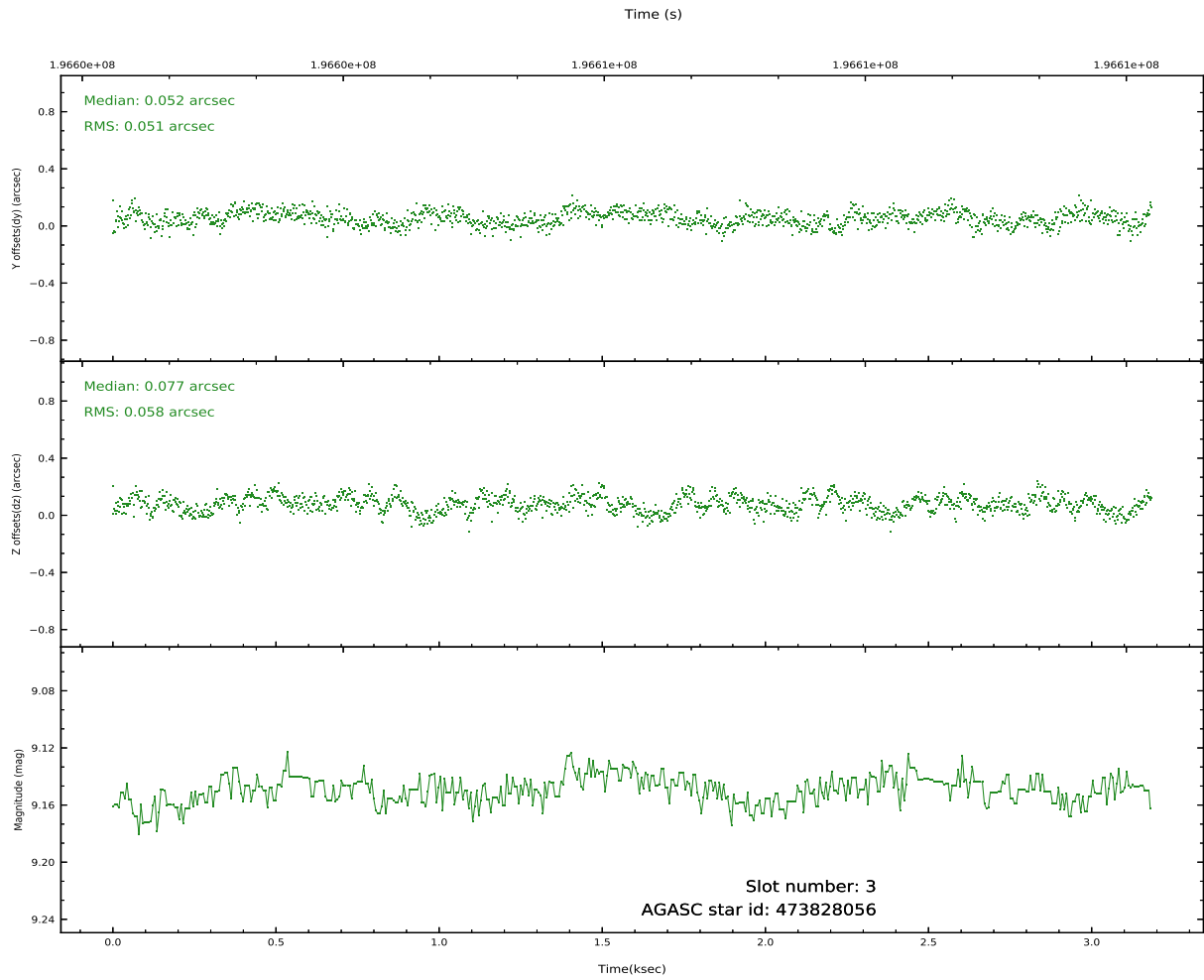
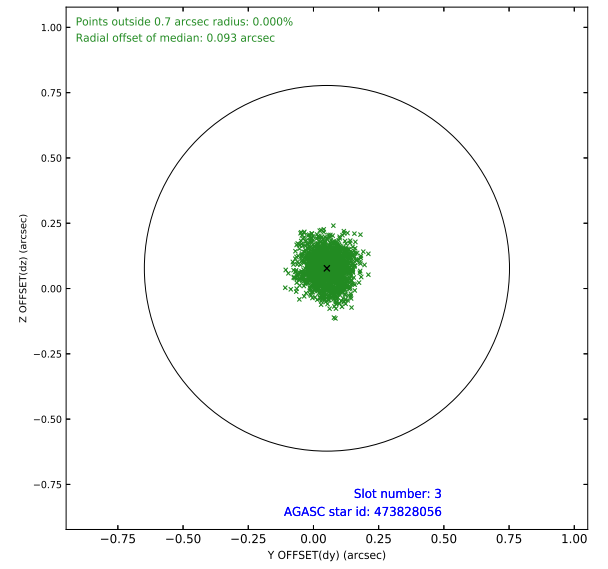
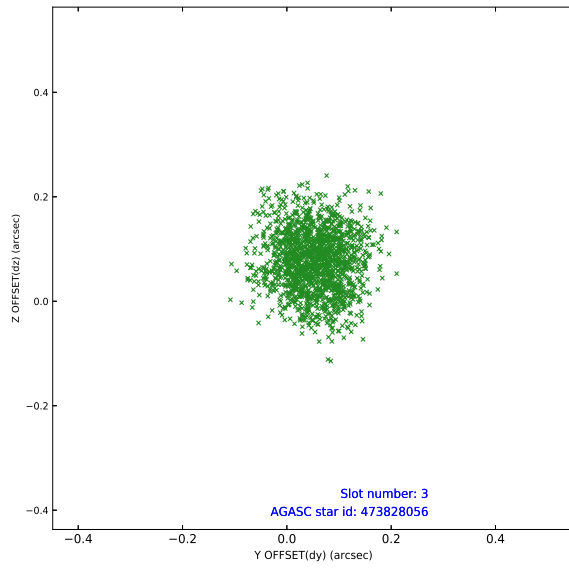


Slot Statistics

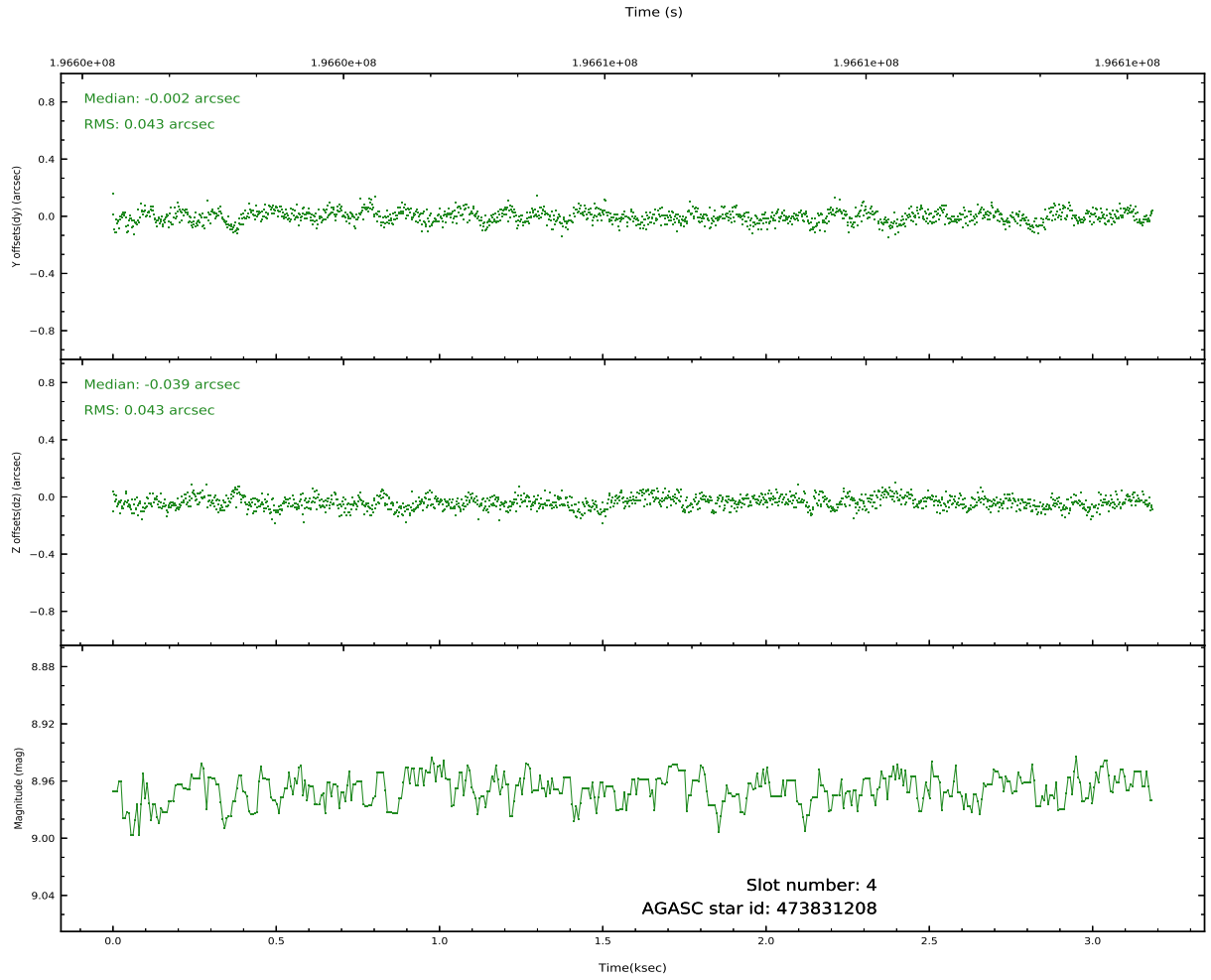
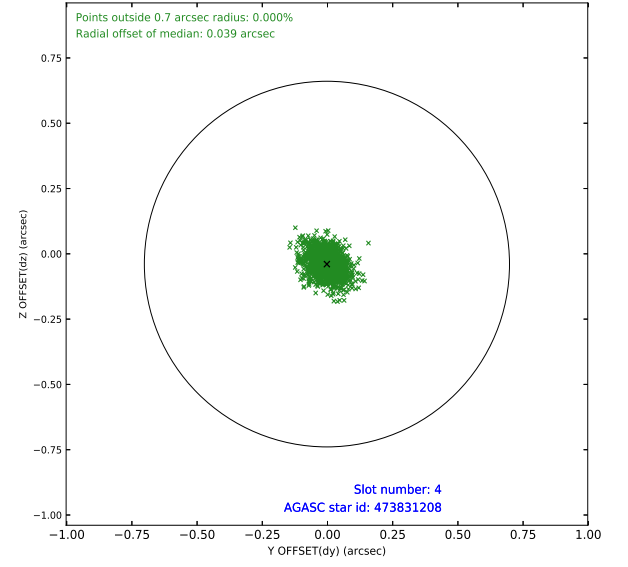
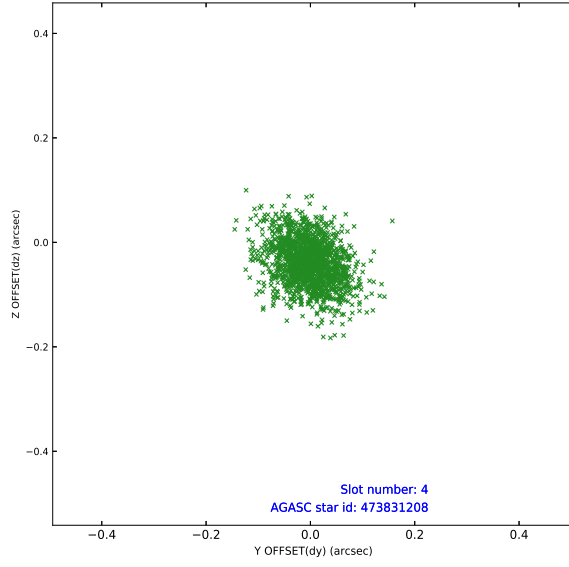
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	777	1.000	-0.066	0.011	0.010	0.017	0.000000	0.000000	932.49	-834
1	FID		ACIS-I-2	7.14	777	1.000	-0.160	-0.080	0.007	0.012	0.000000	0.000000	-760.58	-841
2	FID		ACIS-I-4	7.17	777	1.000	0.127	0.137	0.009	0.013	0.000000	0.000000	2151.64	1064
3	GUIDE	used	473828056	9.15	1553	1.000	0.052	0.077	0.083	0.133	337.284484	49.831238	-1875.79	-577
4	GUIDE	used	473831208	8.97	1552	1.000	-0.002	-0.039	0.064	0.109	337.043692	50.597393	-757.78	2003
5	GUIDE	used	475533648	7.65	1554	1.000	-0.125	-0.004	0.055	0.086	337.854736	50.595005	763.43	946
6	GUIDE	used	475535728	8.42	1553	1.000	0.050	-0.010	0.063	0.098	337.719189	50.521666	359.83	902
7	GUIDE	used	475539648	6.81	1553	1.000	0.016	-0.022	0.072	0.126	338.972426	50.070786	1846.71	-2052

2.4 Star Slots

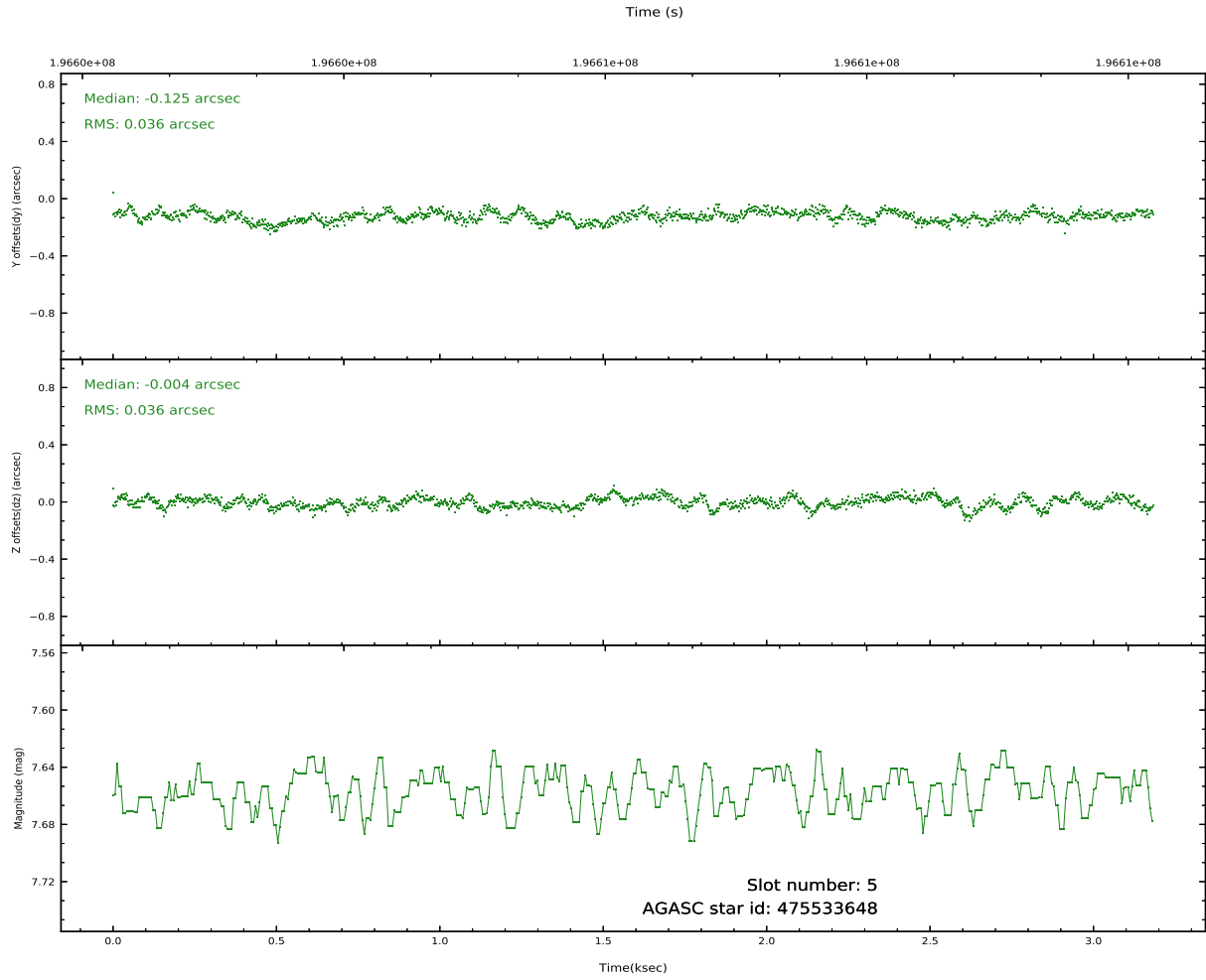
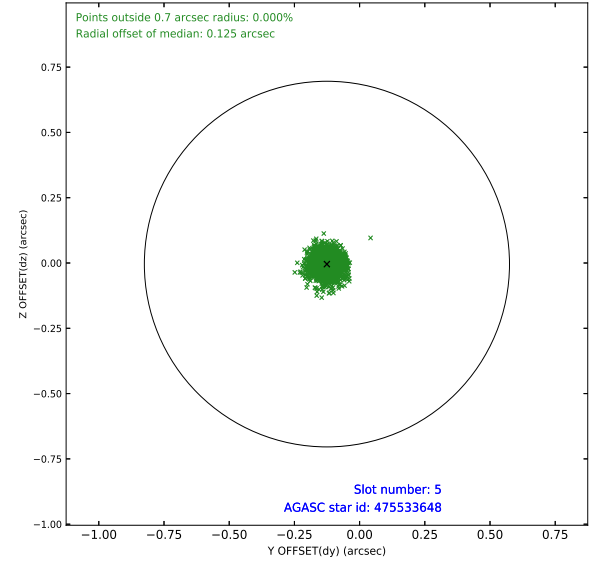
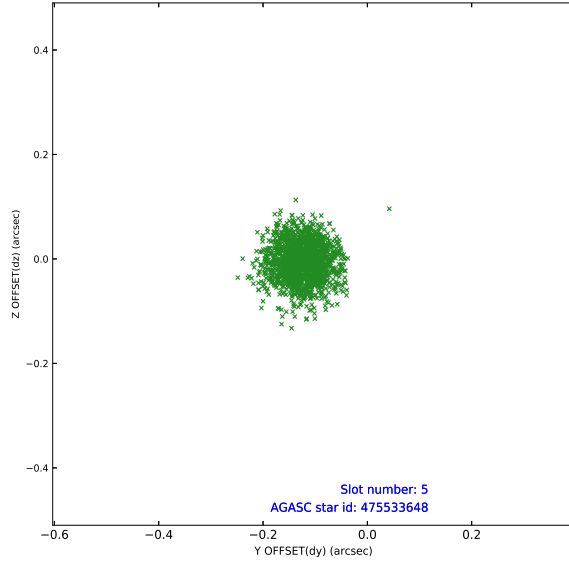
2.4.1 Slot 3



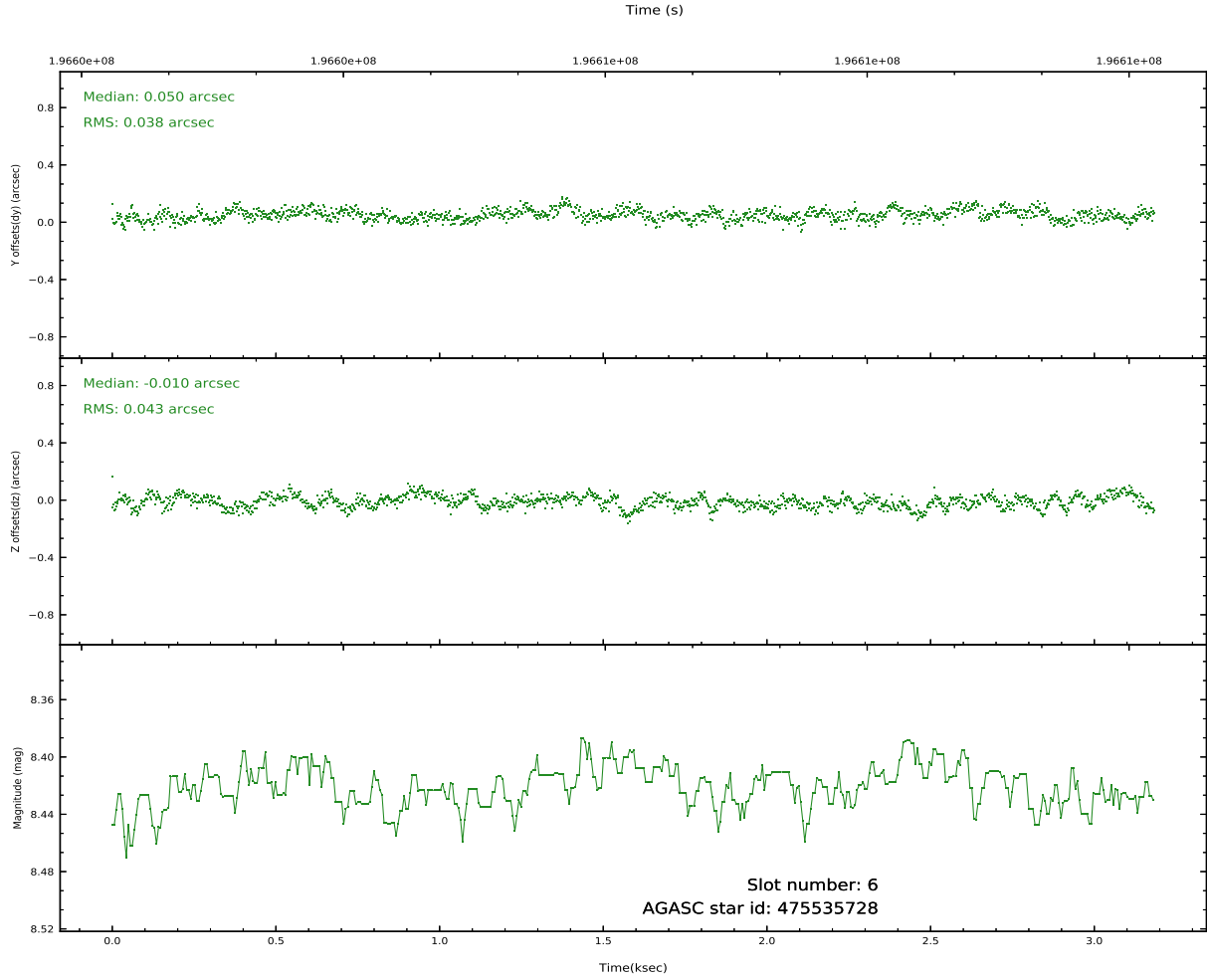
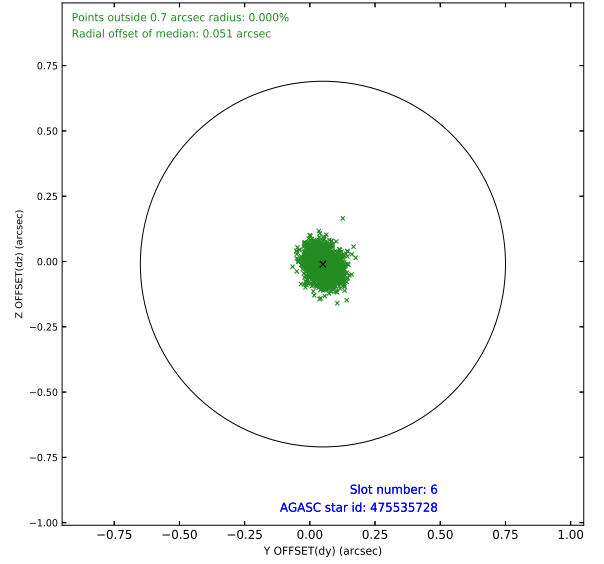
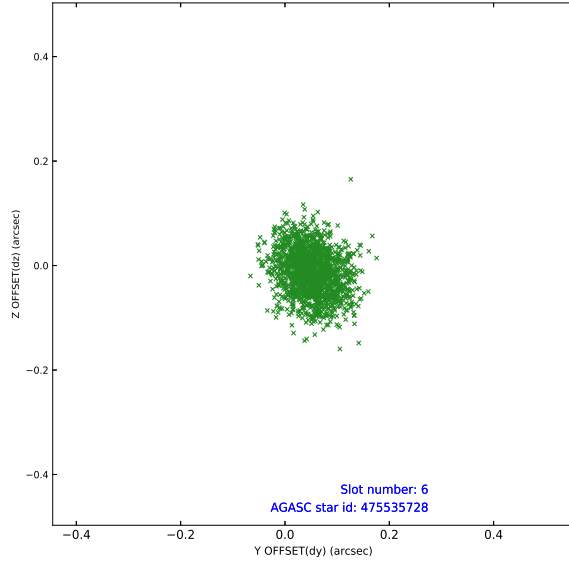
2.4.2 Slot 4



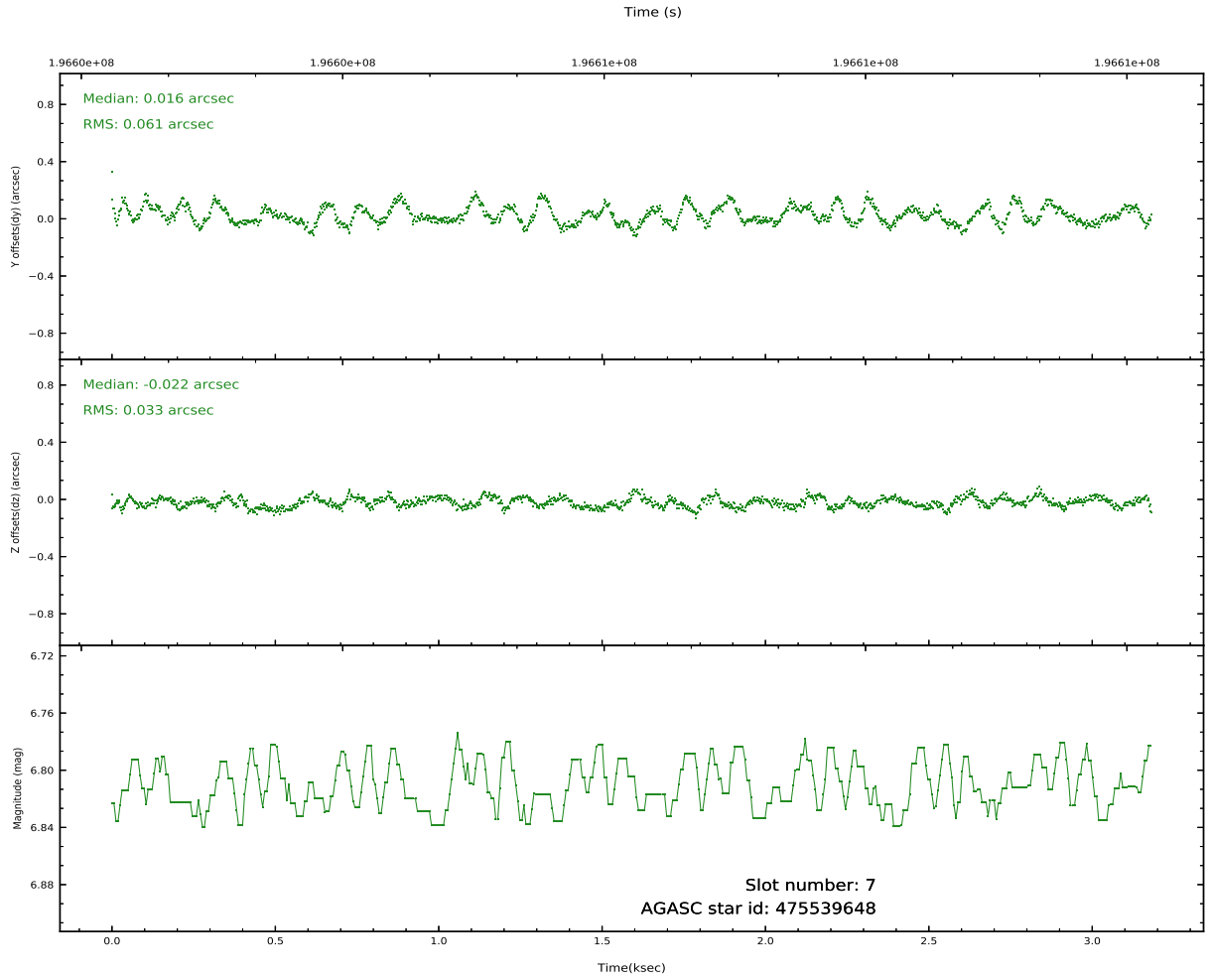
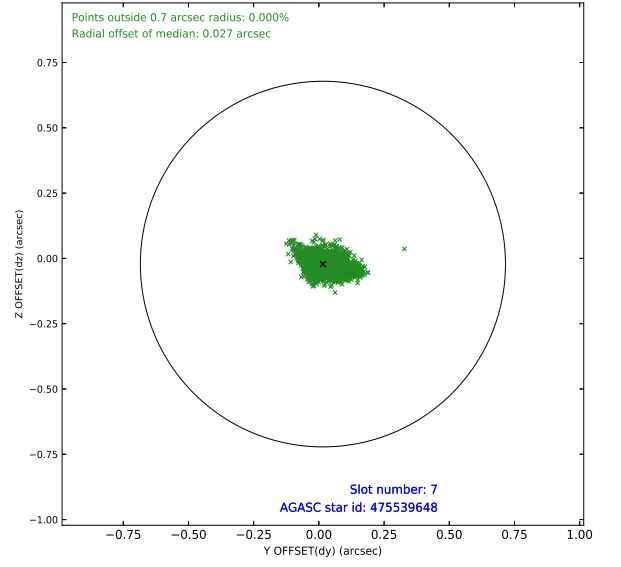
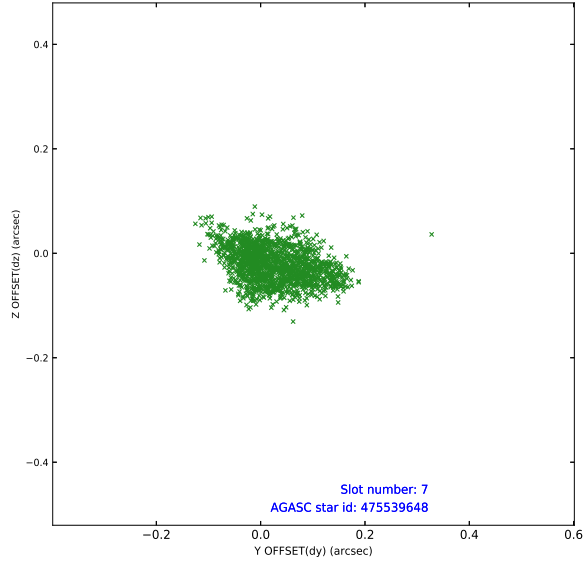
2.4.3 Slot 5



2.4.4 Slot 6

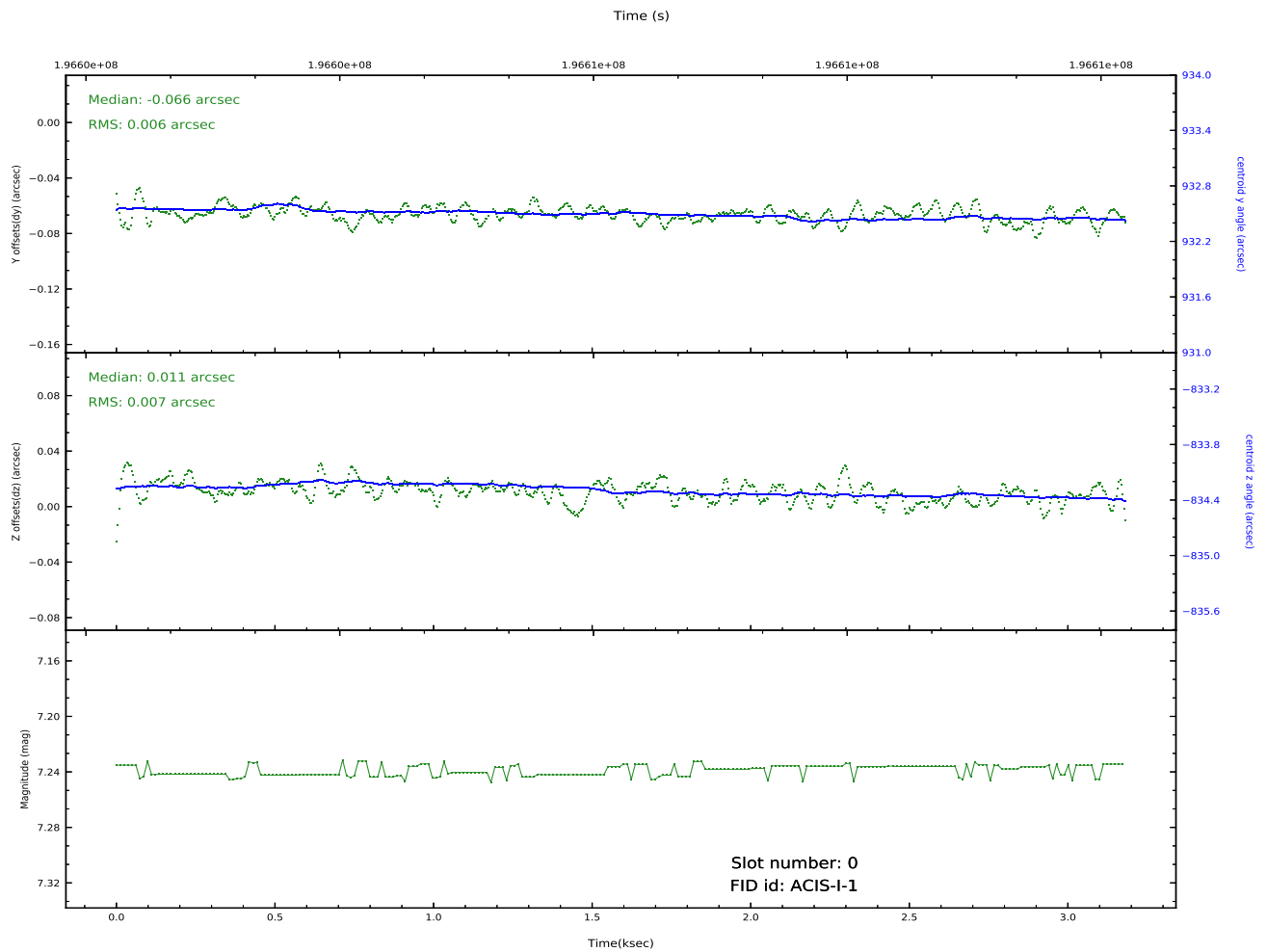
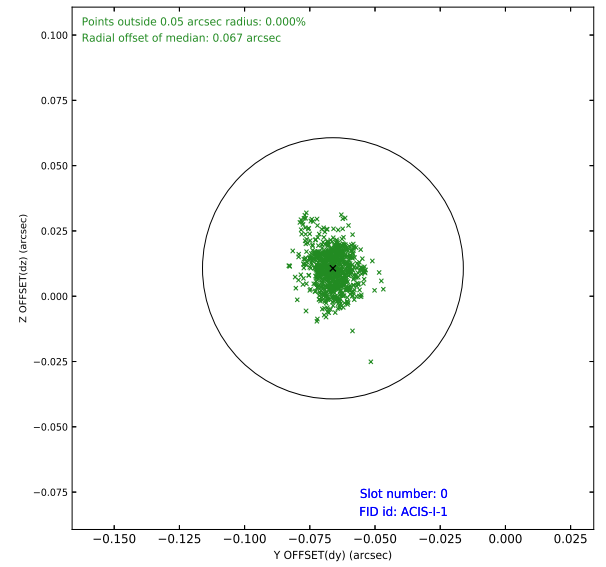
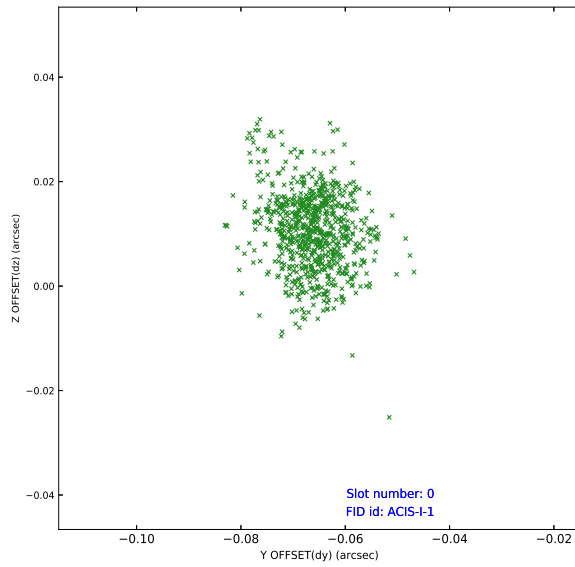


2.4.5 Slot 7

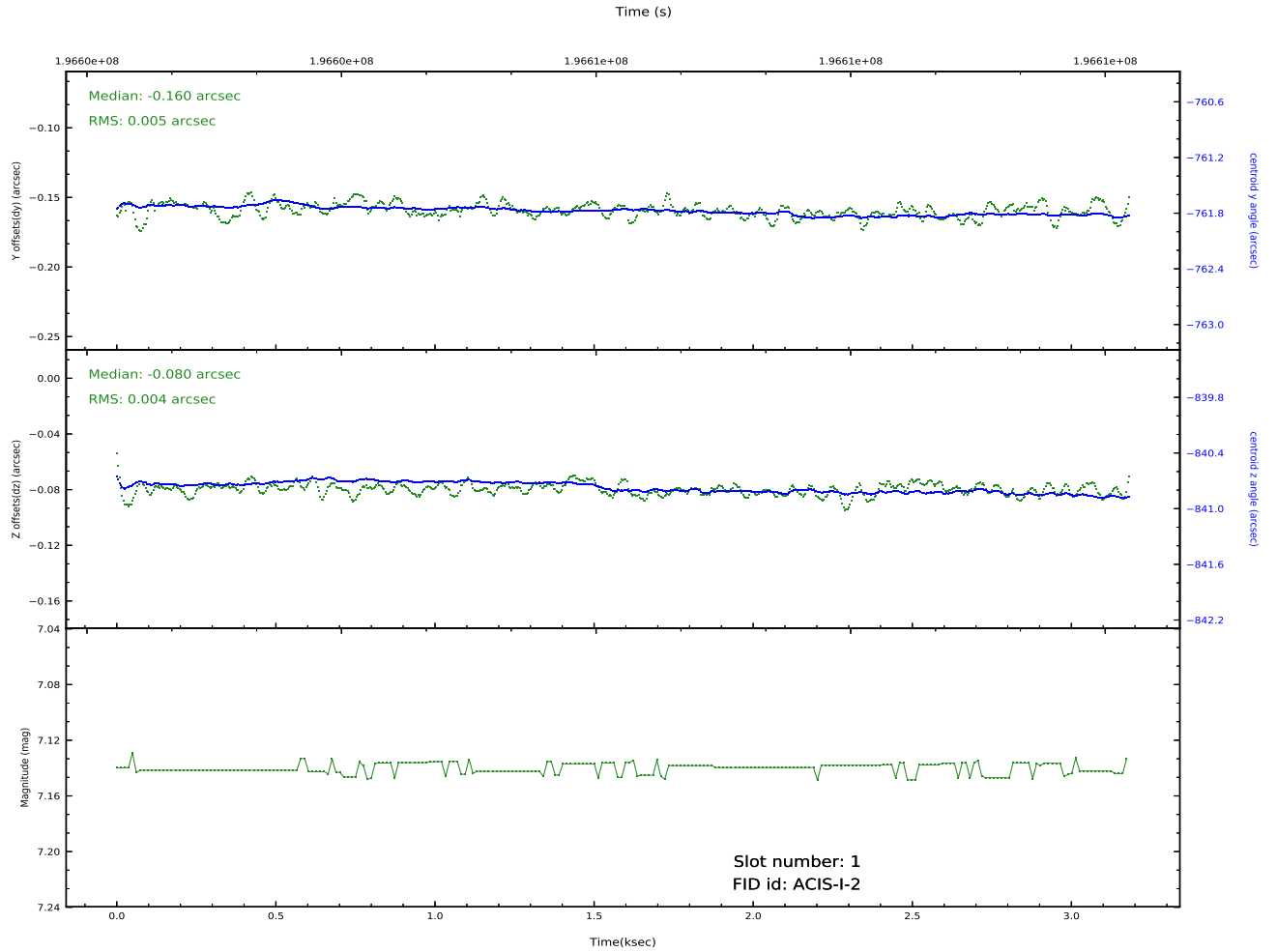
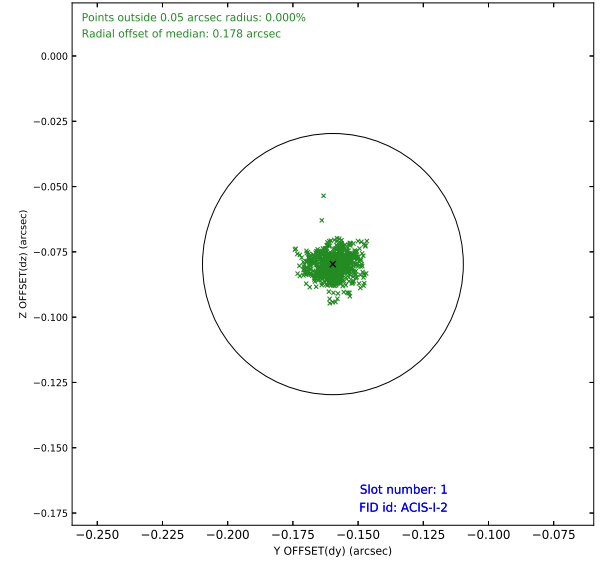
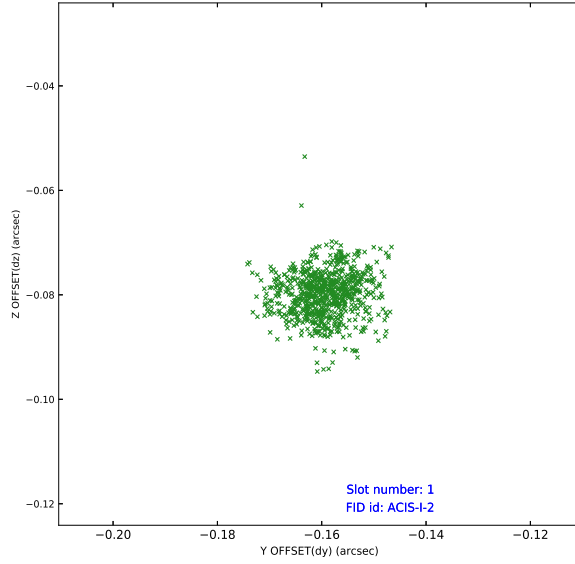


2.5 FID Slots

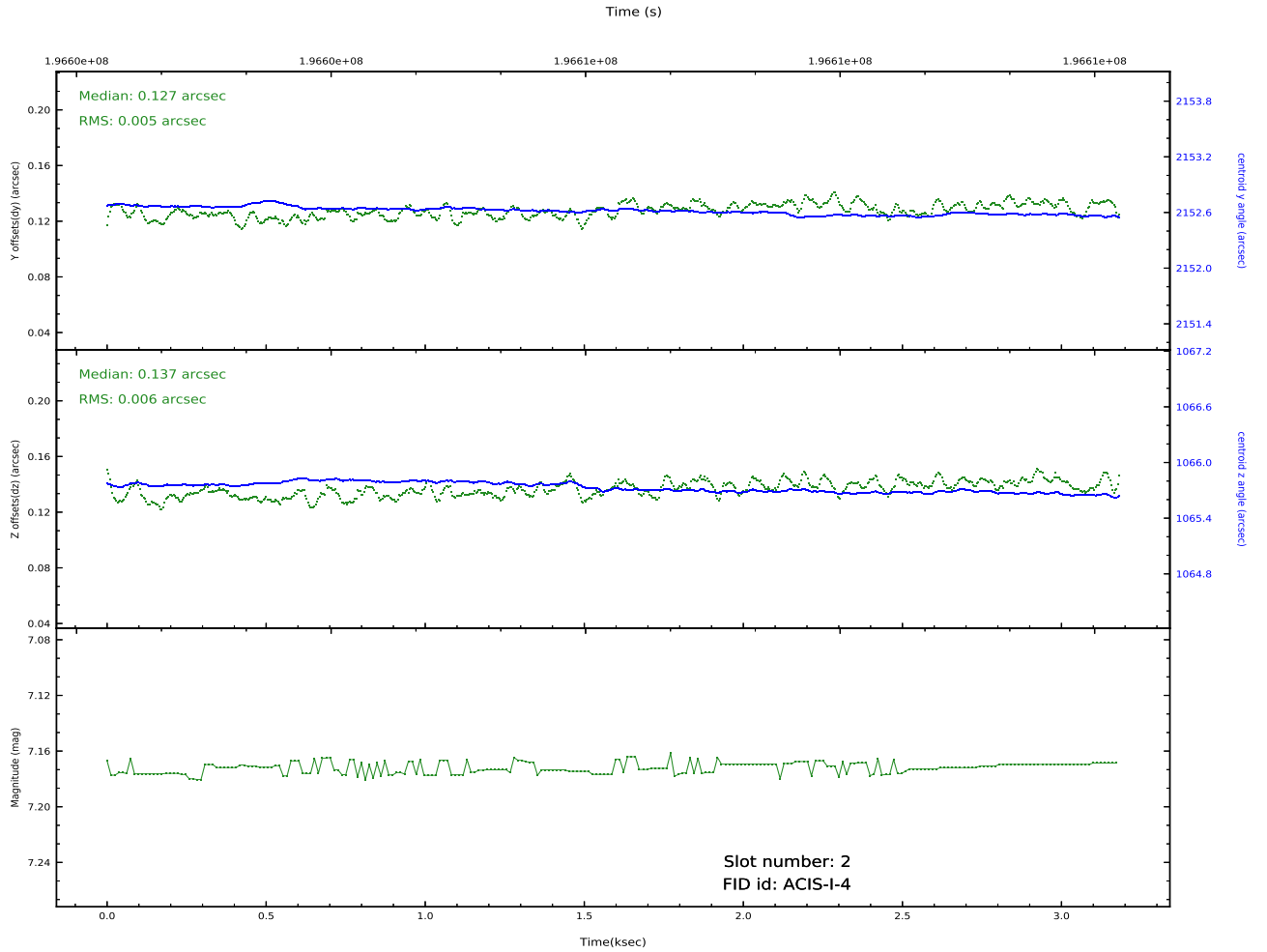
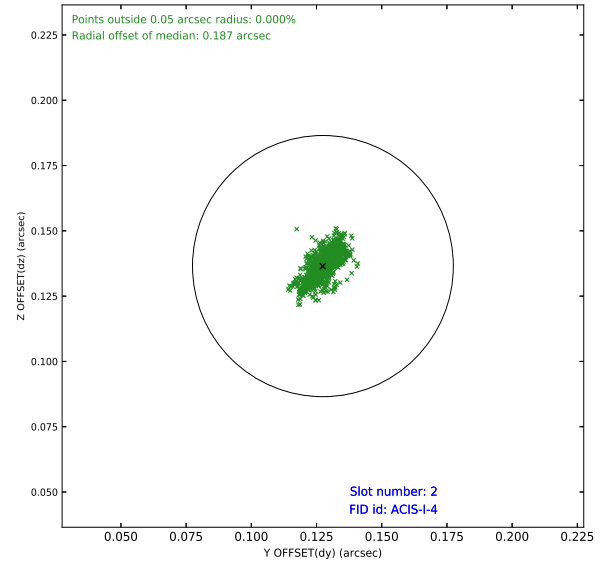
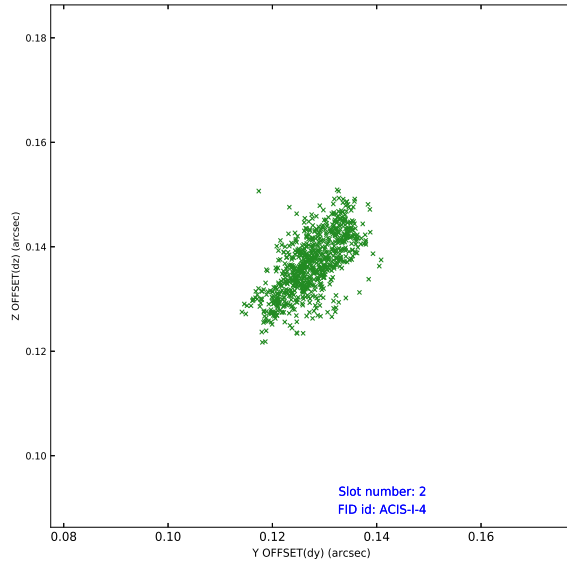
2.5.1 Slot 0



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)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.023

A.2 Comments