

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6929 - L2 Version 3
Chandra X-Ray Center

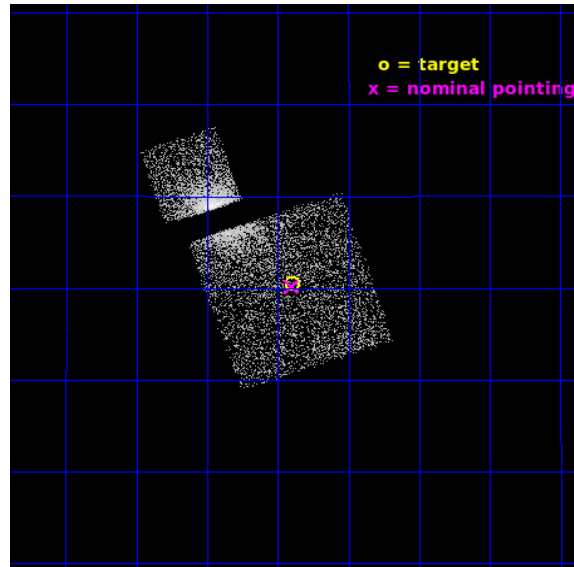
L2 Processing Date : Oct 11 2020

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1 Front

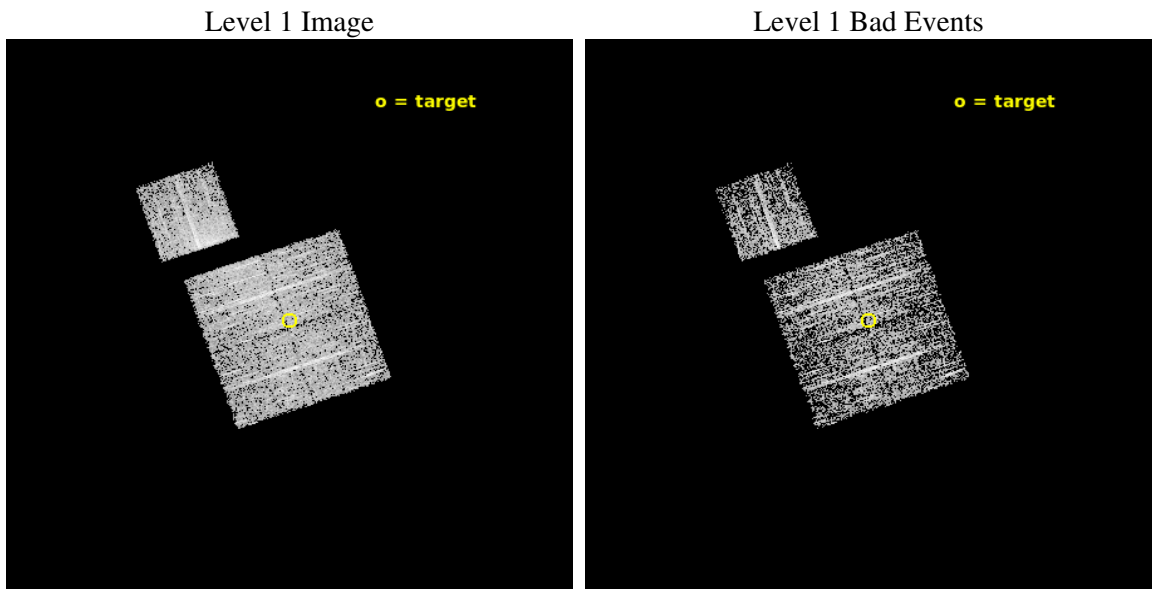
seq_num	800562	Sequence number
obs_id	6929	Observation id
title	Temperature profiles of relaxed galaxy clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	A478	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.225	Observer's specified target RA [deg]
dec_targ	10.341667	Observer's specified target Dec [deg]
ra_nom	63.225128458555	Nominal RA [deg]
dec_nom	10.336068189638	Nominal Dec [deg]
roll_nom	341.10457209098	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2169.9590355456	Sum of GTIs [s]
livetime	2141.6069232456	Livetime [s]
ontime0	2173.0999957919	Sum of GTIs [s]
ontime1	2173.0999957919	Sum of GTIs [s]
ontime2	2173.0999957919	Sum of GTIs [s]
ontime3	2169.9590355456	Sum of GTIs [s]
ontime6	2173.0999957919	Sum of GTIs [s]
l2events	10412	Number of level 2 events



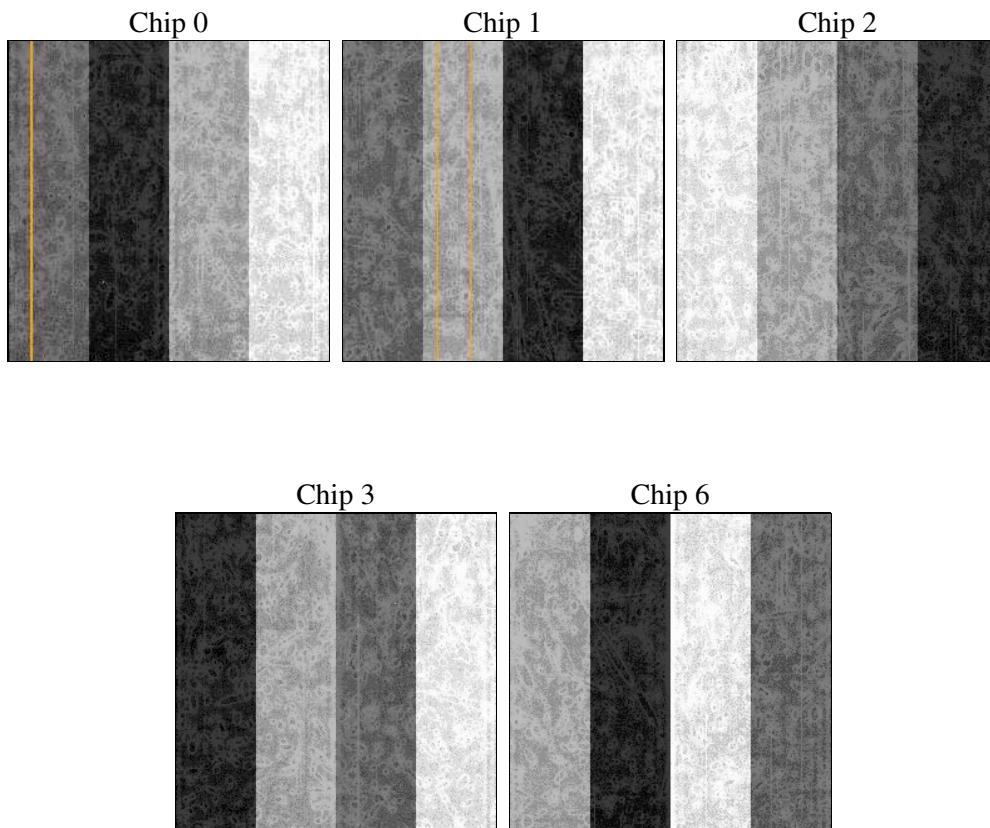
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2169.9590355456	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	2173.0999957919	Sum of GTIs [s]
date	2020-10-12T02:41:02	Date and time of file creation	ontime1	2173.0999957919	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2173.0999957919	Sum of GTIs [s]
			ontime3	2169.9590355456	Sum of GTIs [s]
			ontime6	2173.0999957919	Sum of GTIs [s]
			l1events	98723	Number of level 1 events

2.1.4 Events

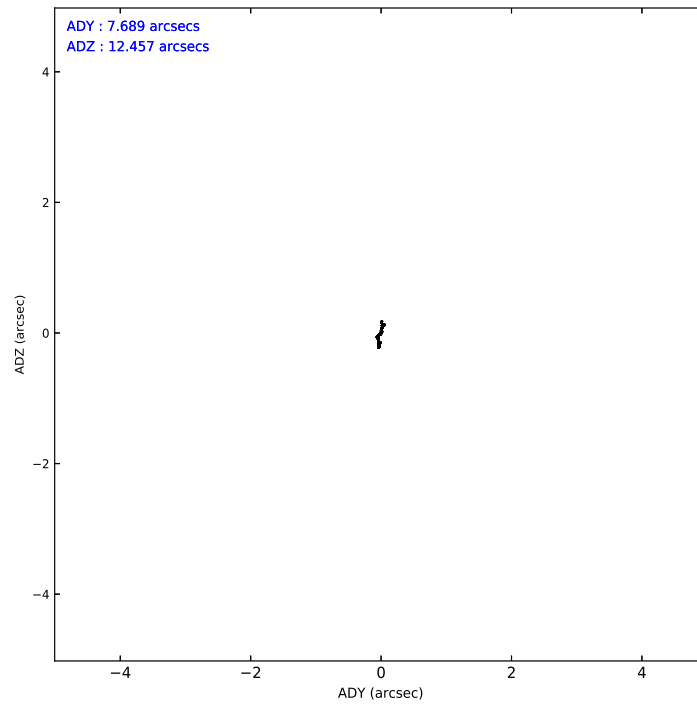
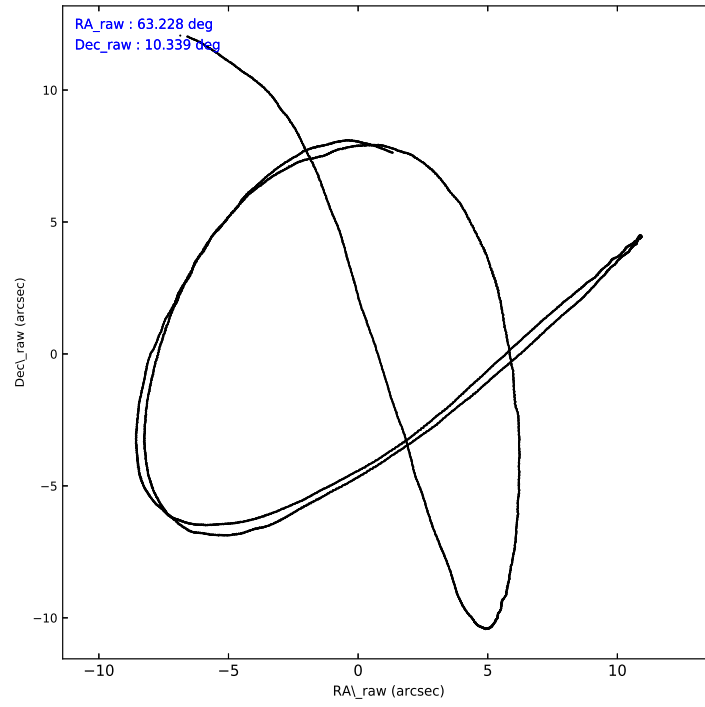
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	17855	18339	22101	19001	21427
rejected events	16406	16623	19051	17434	17225
rejected %	91%	90%	86%	91%	80%

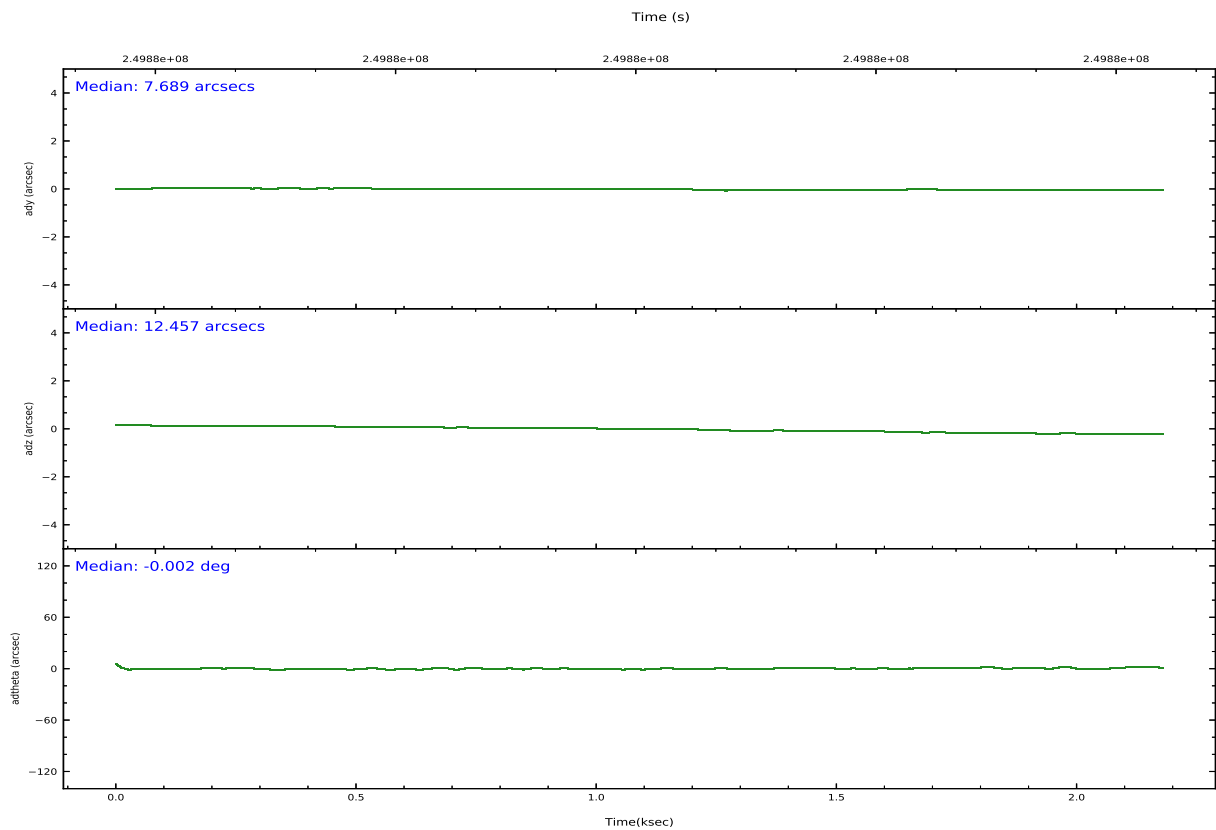
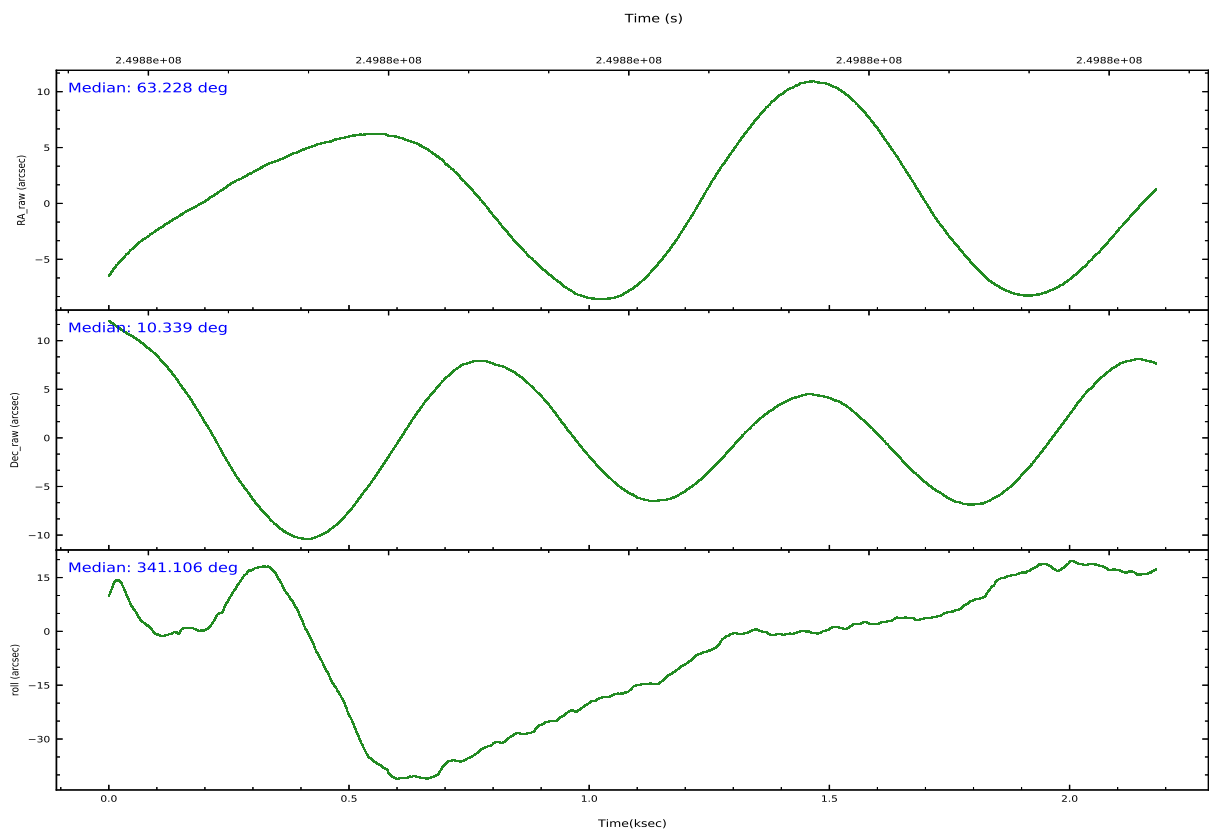
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	668	801	1993	779	3194
	3%	4%	9%	4%	14%
grade 1 events	12	12	22	10	19
	0%	0%	0%	0%	0%
grade 2 events	438	462	666	390	707
	2%	2%	3%	2%	3%
grade 3 events	211	255	266	228	316
	1%	1%	1%	1%	1%
grade 4 events	194	234	281	202	286
	1%	1%	1%	1%	1%
grade 5 events	669	737	619	789	812
	3%	4%	2%	4%	3%
grade 6 events	365	440	415	385	495
	2%	2%	1%	2%	2%
grade 7 events	15298	15398	17839	16218	15598
	85%	83%	80%	85%	72%

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	63.201219	63.225128458555	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.333193	10.336068189638	Alternating exposures requested	N	N
[deg] Pointing Roll	340.904268	341.10457209098	[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)	249876098.184000	249874719.99629			
Observation start date	2005-12-02T02:00:34	2005-12-02T01:38:39			
[s] Observation end time (MET)	249878098.184000	249878431.52146			
Observation end date	2005-12-02T02:33:54	2005-12-02T02:40:31			
Read mode	TIMED	TIMED			

2.3 Aspect



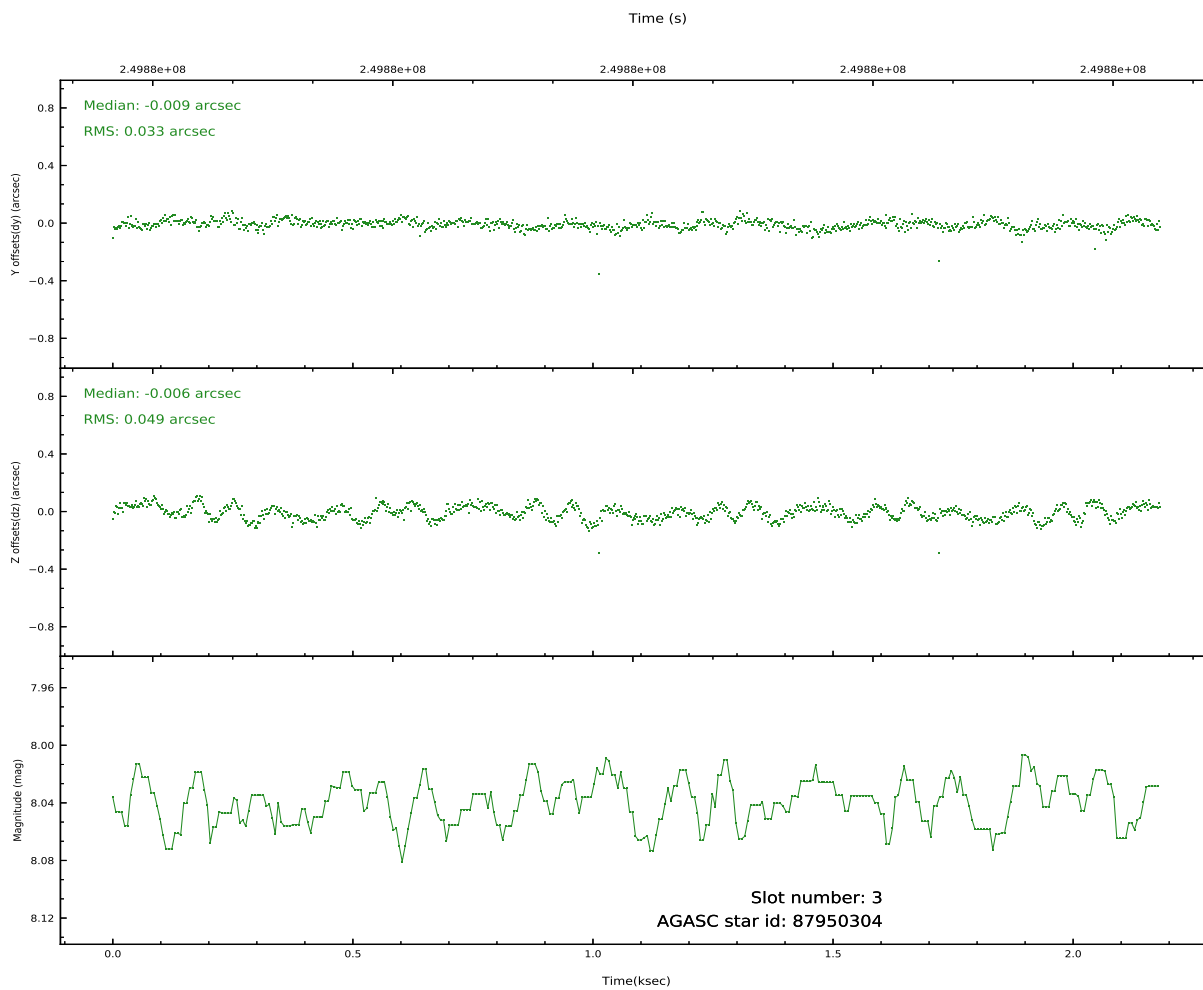
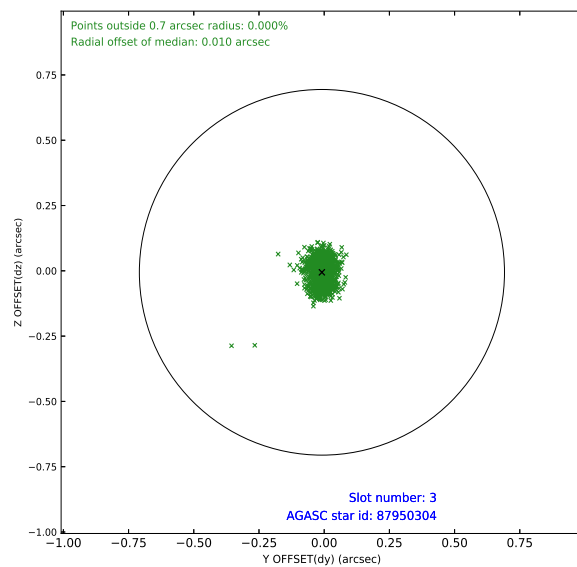
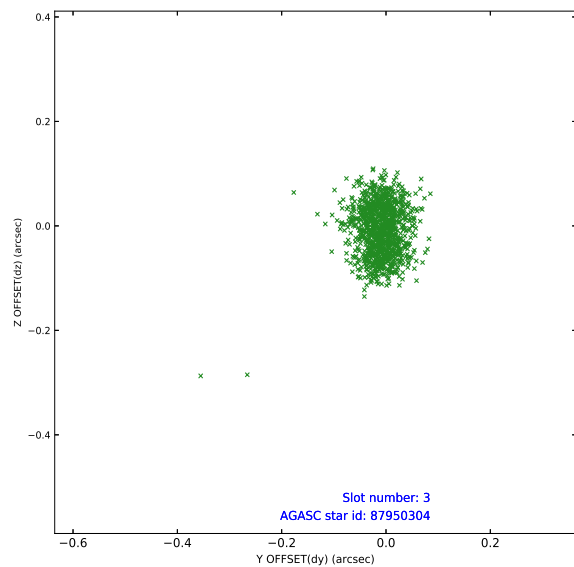


Slot Statistics

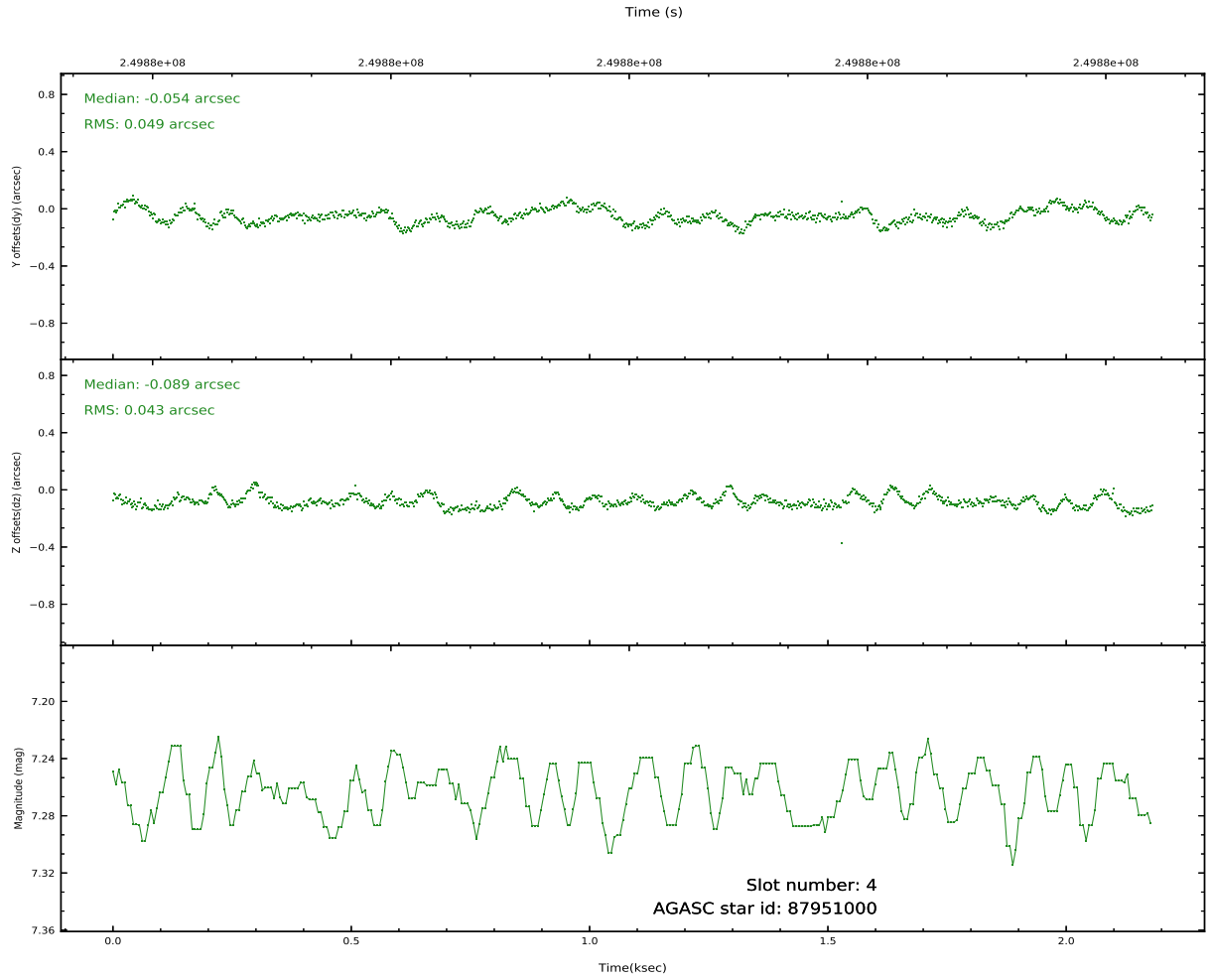
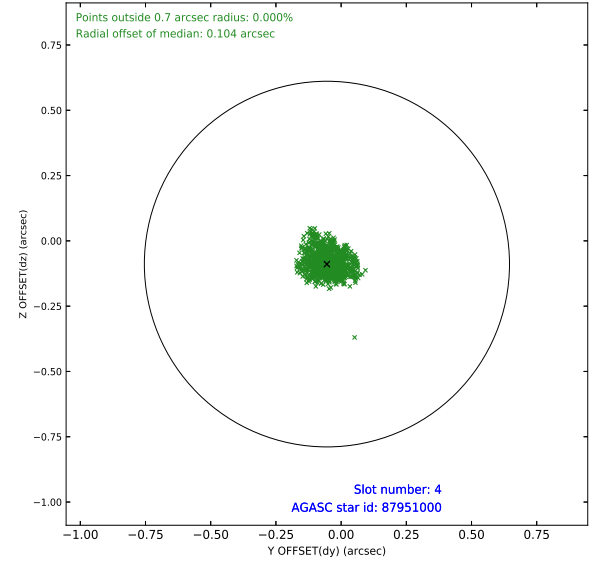
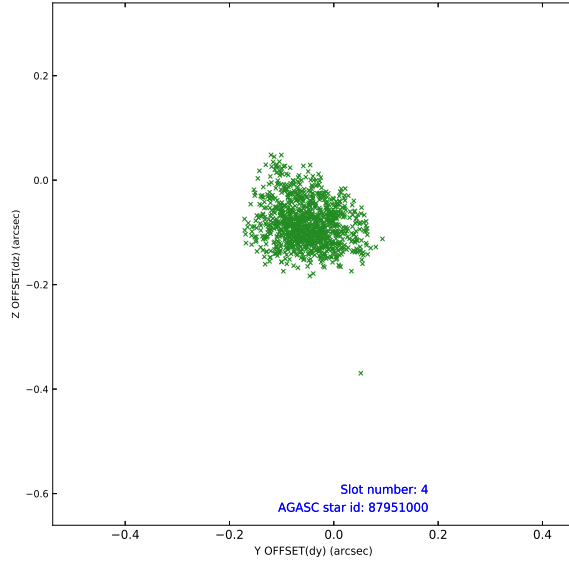
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.14	532	1.000	-0.116	-0.136	0.009	0.017	0.000000	0.000000	-762.31	-842
1	FID		ACIS-I-4	7.20	532	1.000	0.237	0.103	0.005	0.010	0.000000	0.000000	2150.75	1062
2	FID		ACIS-I-5	7.22	533	1.000	-0.222	0.101	0.009	0.015	0.000000	0.000000	-1812.40	1063
3	GUIDE	used	87950304	8.04	1065	1.000	-0.009	-0.006	0.061	0.096	63.753878	10.748130	1358.31	2052
4	GUIDE	used	87951000	7.26	1065	1.000	-0.054	-0.089	0.069	0.114	63.643091	10.701386	1045.44	1766
5	GUIDE	used	87953912	6.66	1065	1.000	0.018	0.040	0.057	0.113	63.394036	10.212467	789.47	-185
6	GUIDE	used	87954016	9.26	1065	1.000	0.038	0.053	0.082	0.137	63.197646	10.607026	-332.93	926
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

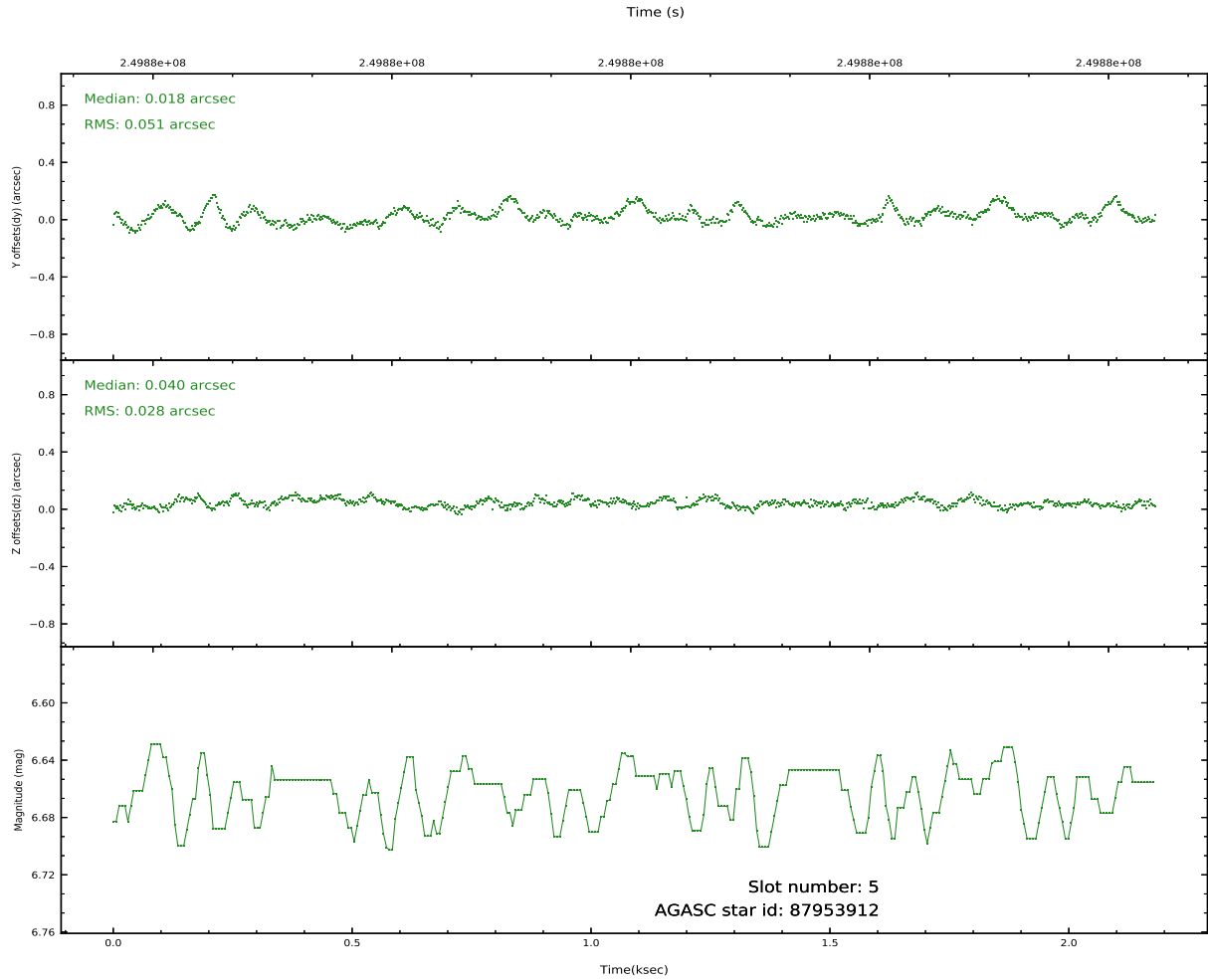
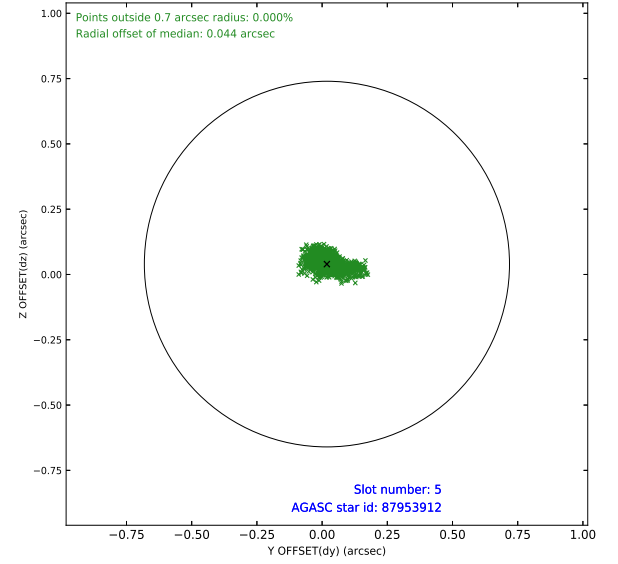
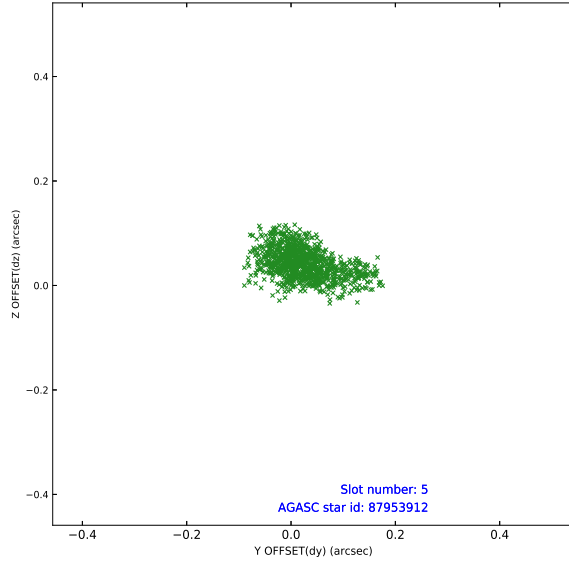
2.4.1 Slot 3



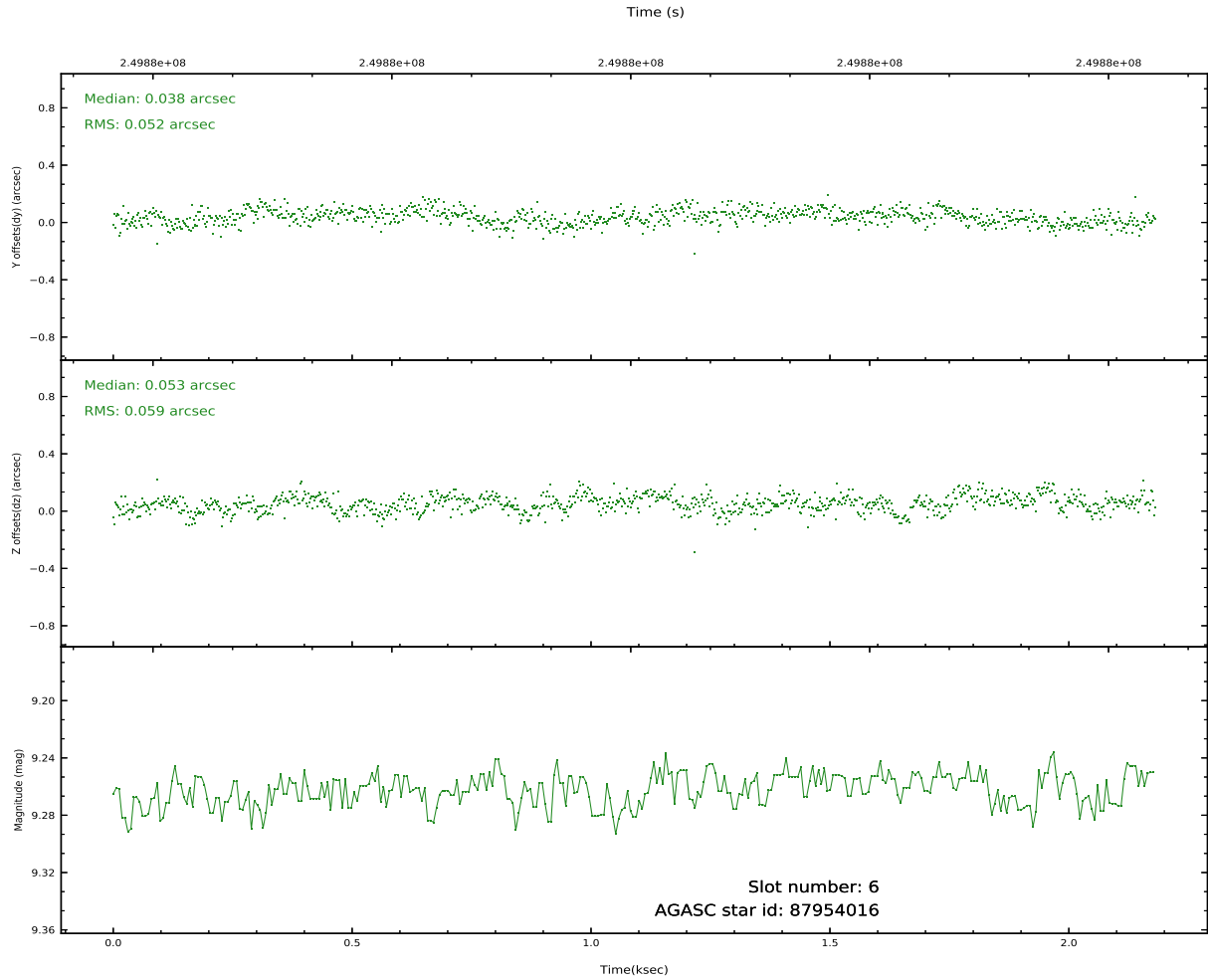
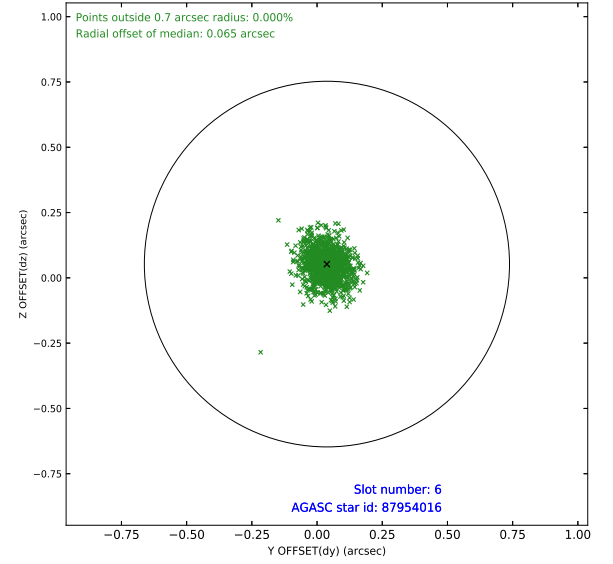
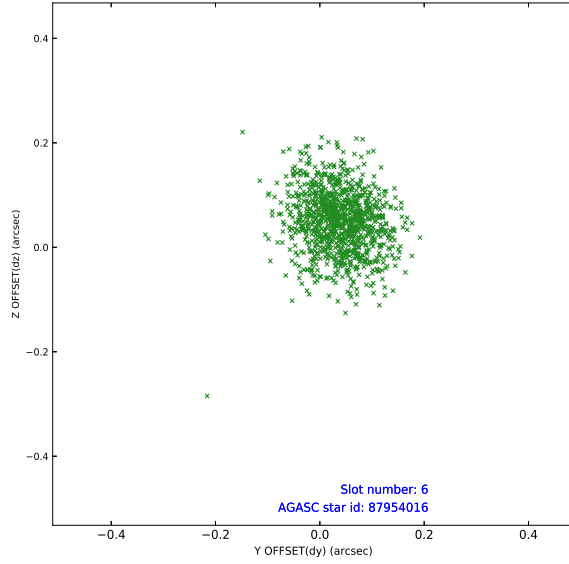
2.4.2 Slot 4



2.4.3 Slot 5

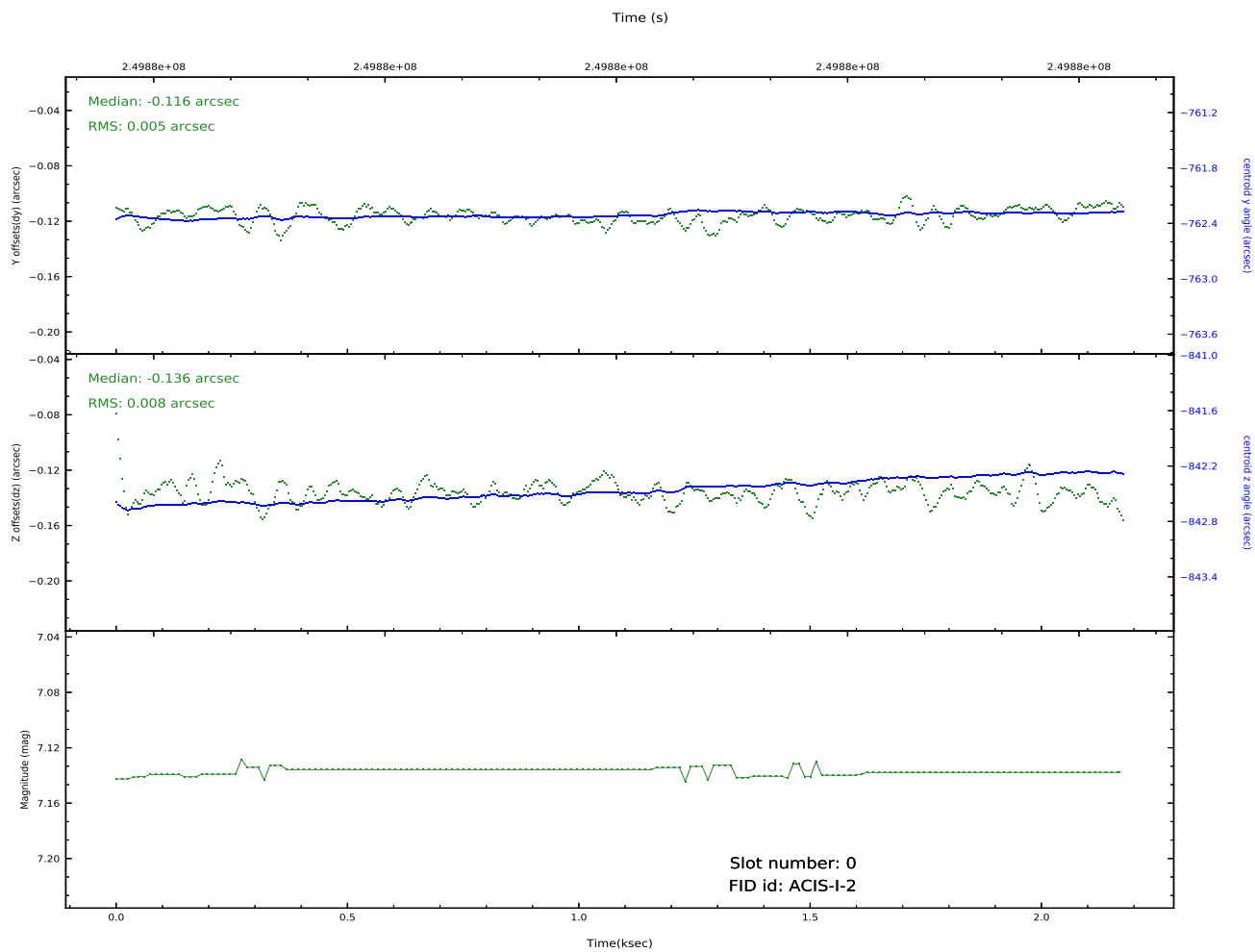
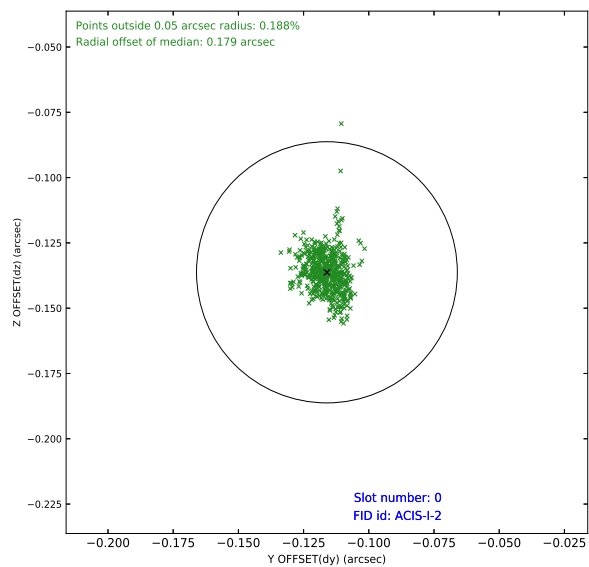
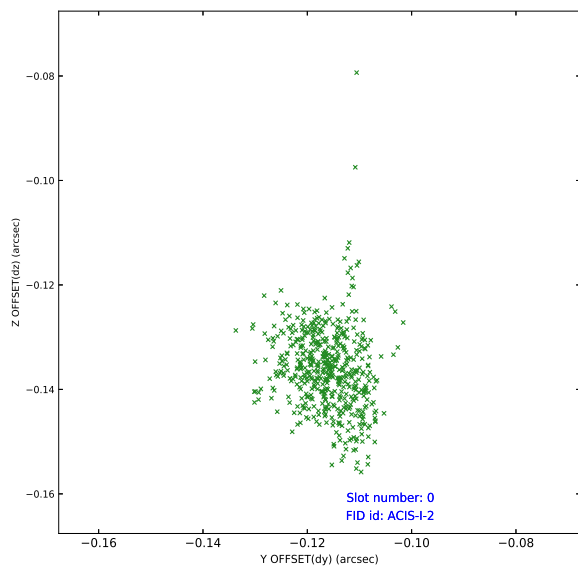


2.4.4 Slot 6

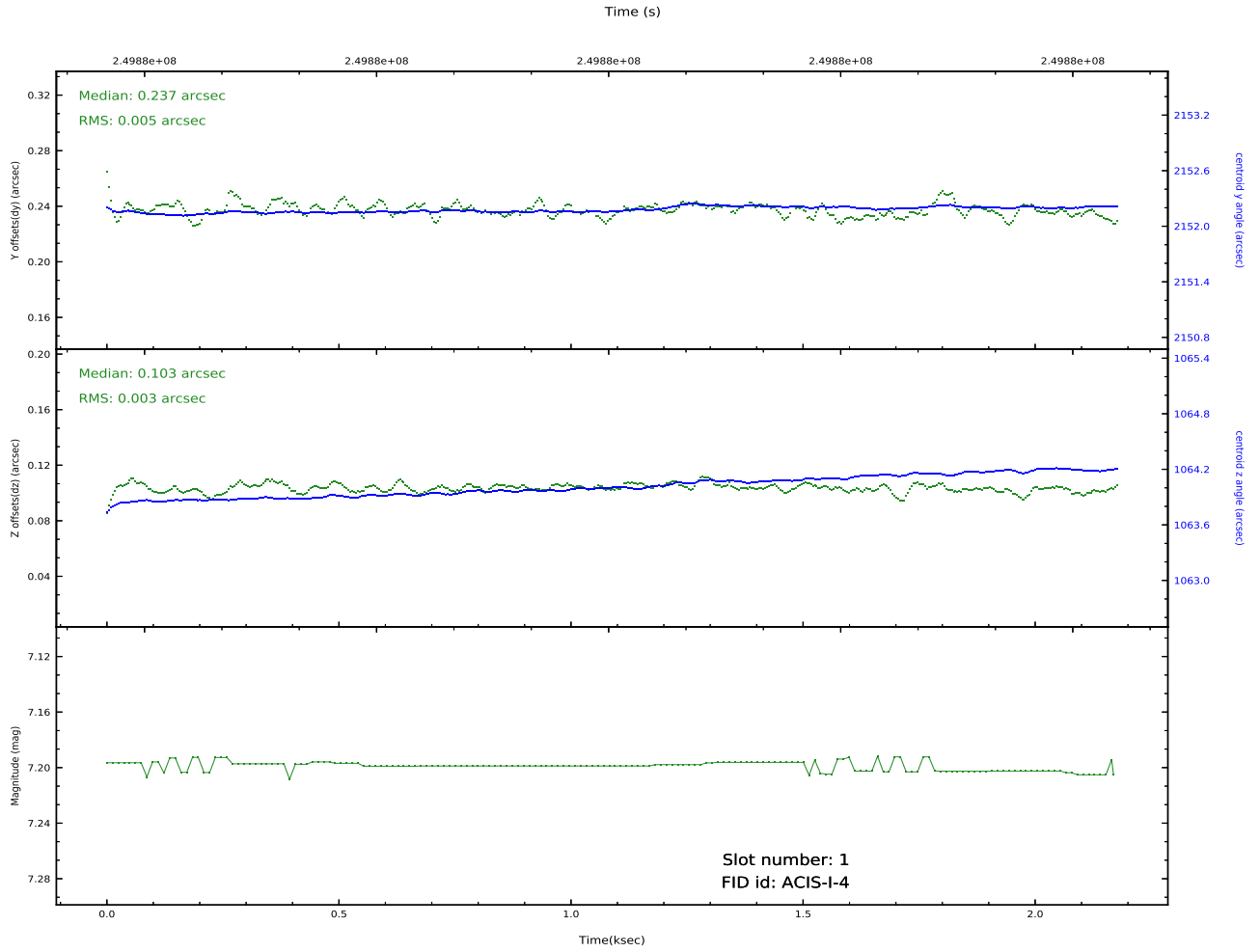
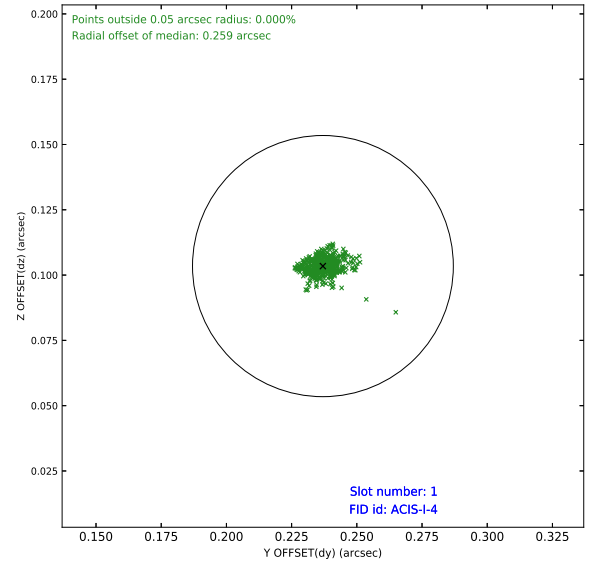
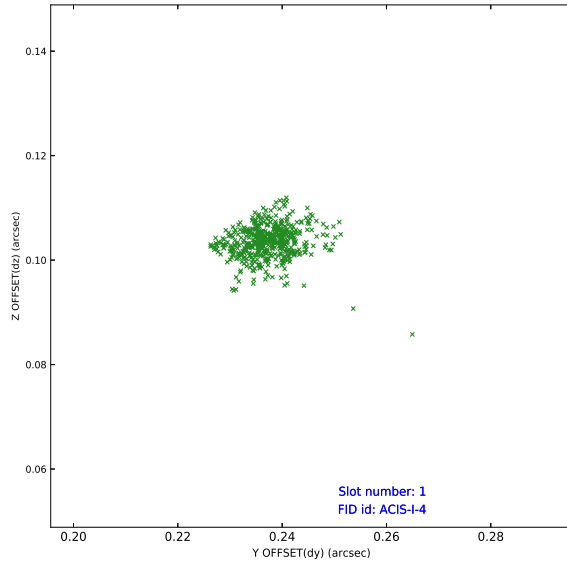


2.5 FID Slots

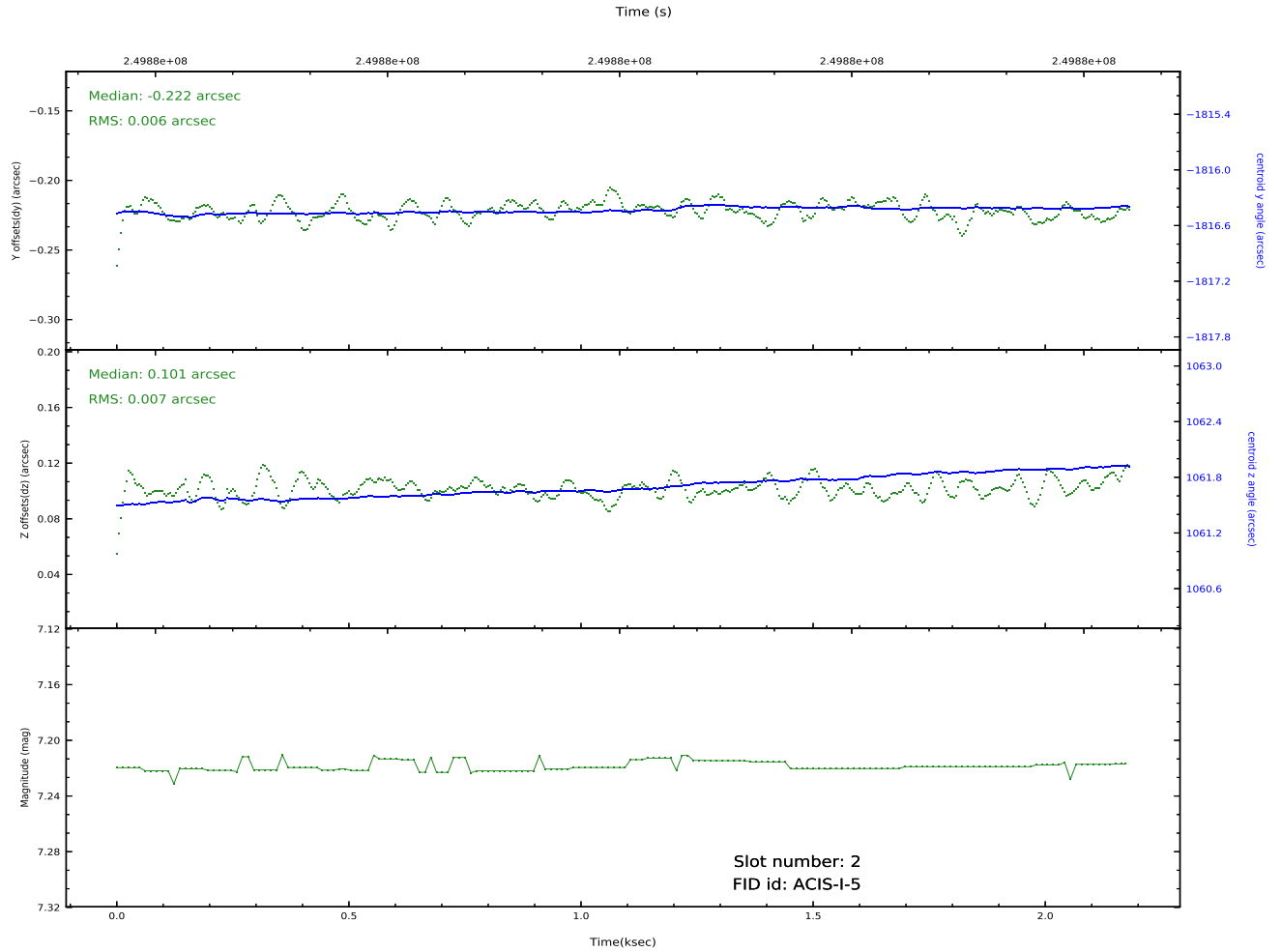
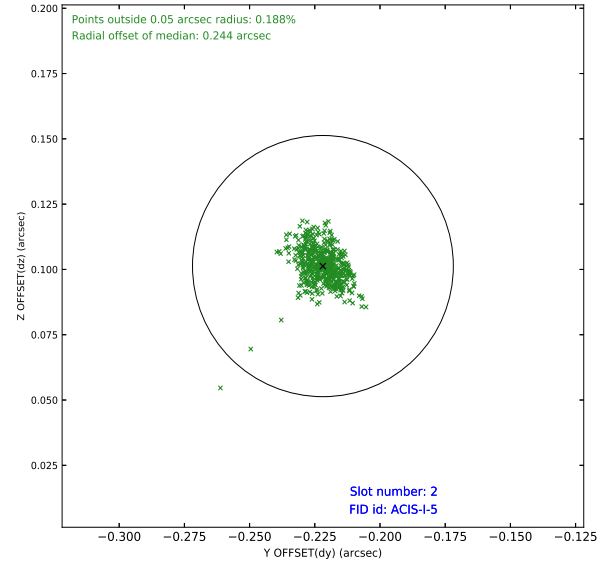
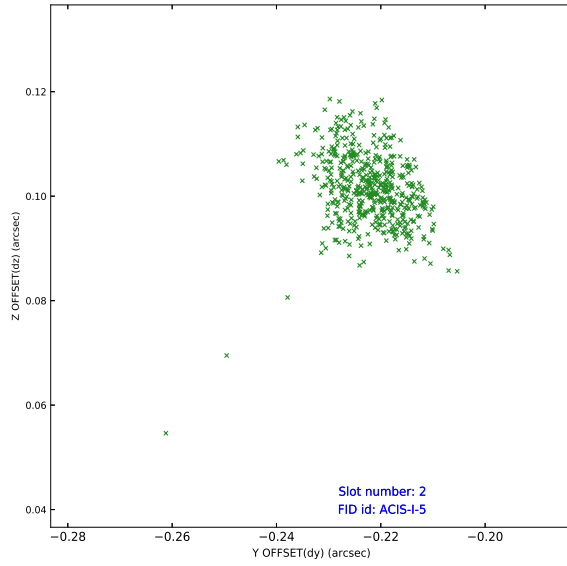
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.169959

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.