

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20439 - L2 Version 3
Chandra X-Ray Center

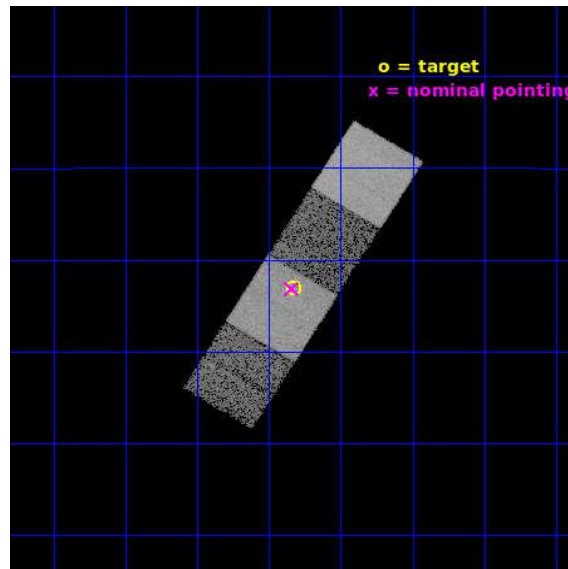
L2 Processing Date : Oct 26 2020

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1 Front

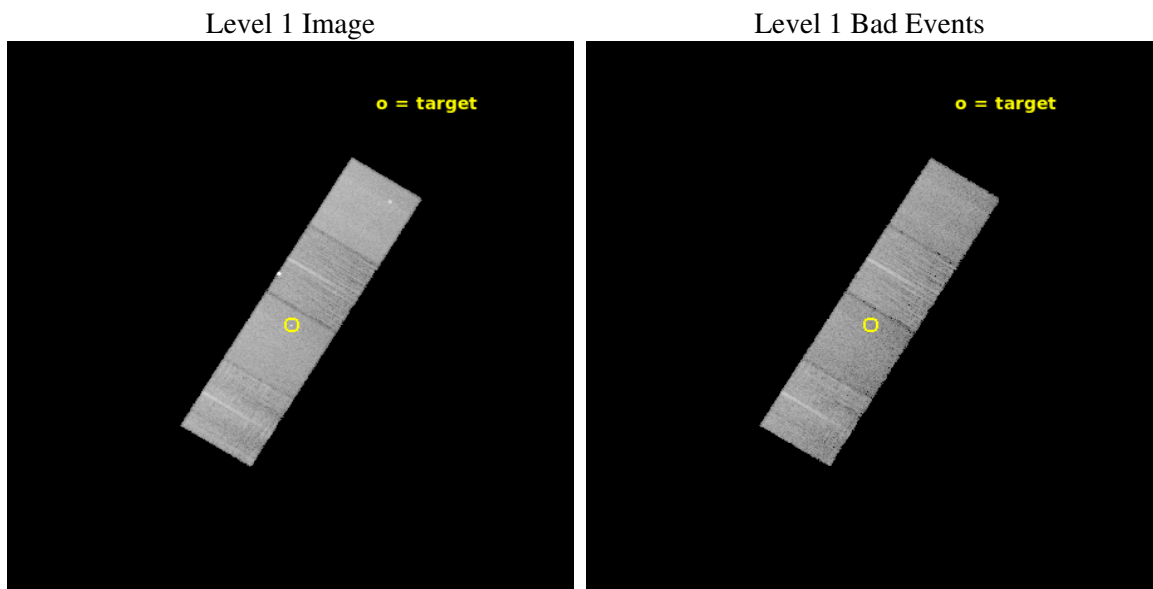
seq_num	703544	Sequence number
obs_id	20439	Observation id
title	Compton thick AGN: the hunt continues	Proposal title
observer	Stefano Marchesi	Principal investigator
object	2MASX J02051994-0233055	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.332917	Observer's specified target RA [deg]
dec_targ	-2.551611	Observer's specified target Dec [deg]
ra_nom	31.335304082905	Nominal RA [deg]
dec_nom	-2.5520547010944	Nominal Dec [deg]
roll_nom	121.49209377992	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10059.500077486	Sum of GTIs [s]
livetime	9928.0653032775	Livetime [s]
ontime5	10059.500077486	Sum of GTIs [s]
ontime6	10059.500077486	Sum of GTIs [s]
ontime7	10059.500077486	Sum of GTIs [s]
ontime8	10059.500077486	Sum of GTIs [s]
l2events	114071	Number of level 2 events



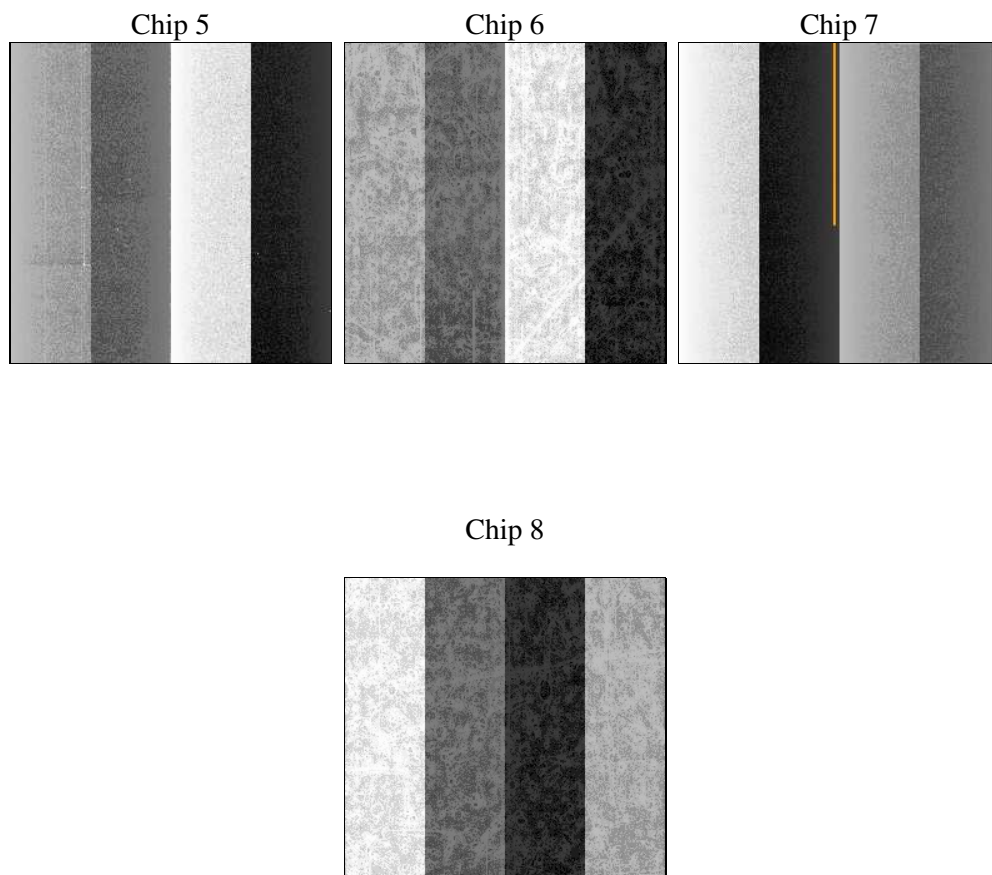
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10059.500077486	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	10059.500077486	Sum of GTIs [s]
date	2020-10-26T07:56:07	Date and time of file creation	ontime6	10059.500077486	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	10059.500077486	Sum of GTIs [s]
			ontime8	10059.500077486	Sum of GTIs [s]
			l1events	405080	Number of level 1 events

2.1.4 Events

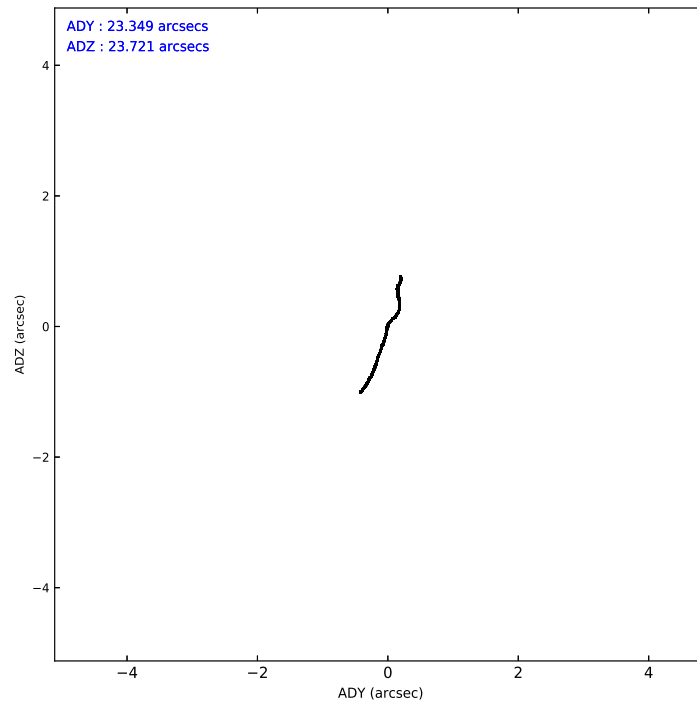
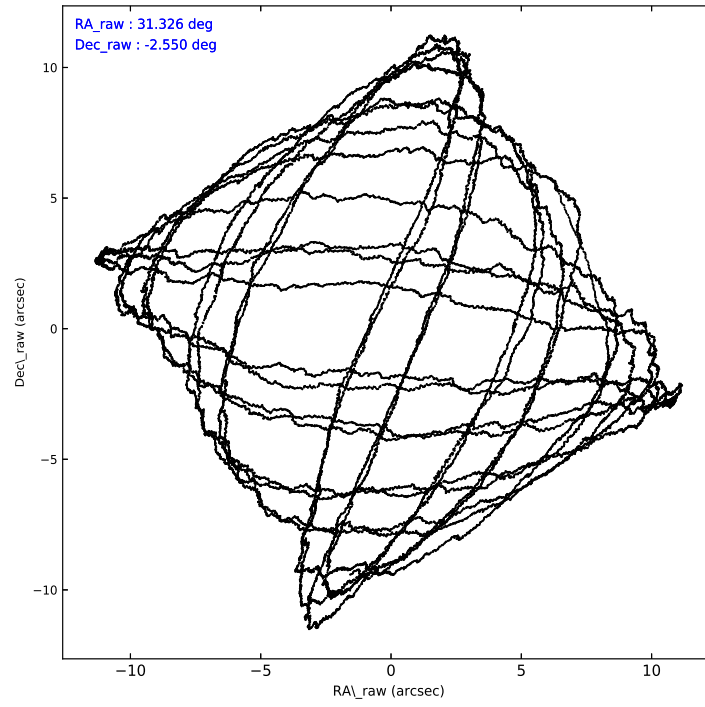
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	122369	83266	99379	100066
rejected events	63821	71566	56273	74423
rejected %	52%	85%	56%	74%

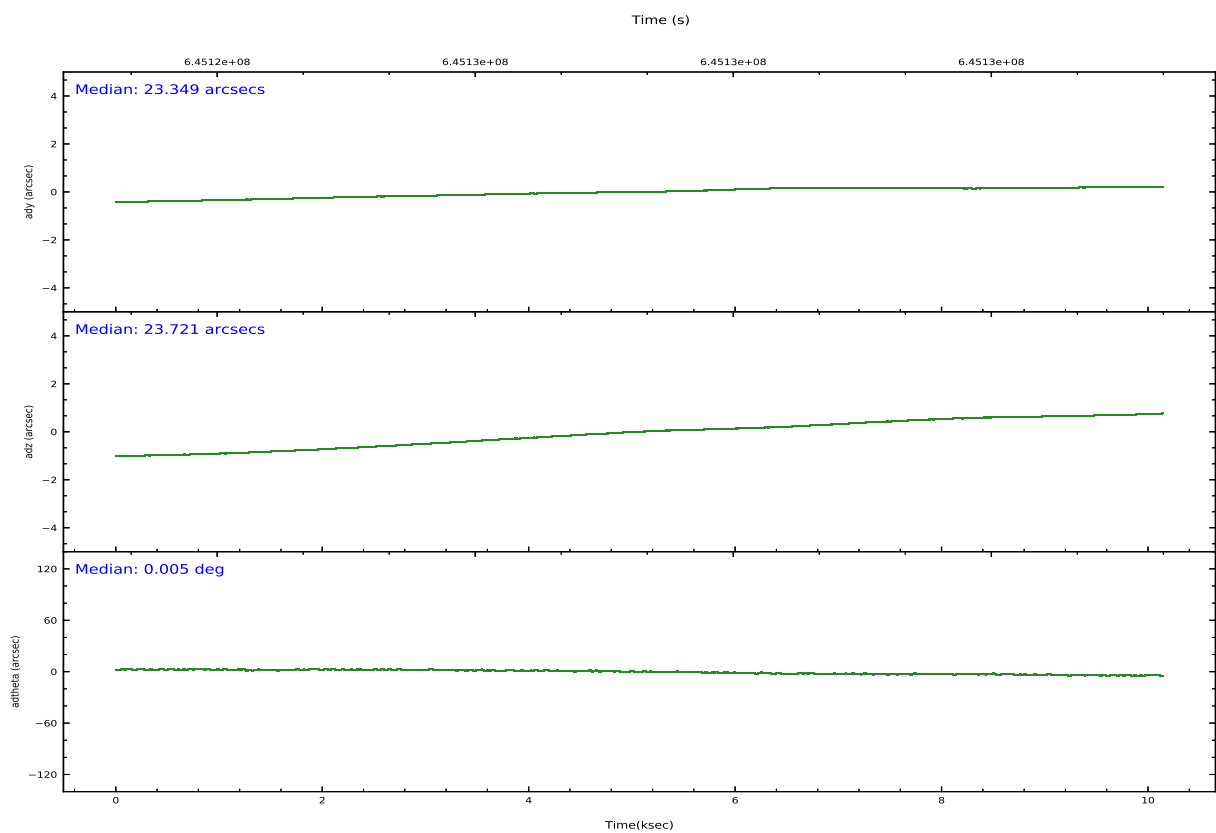
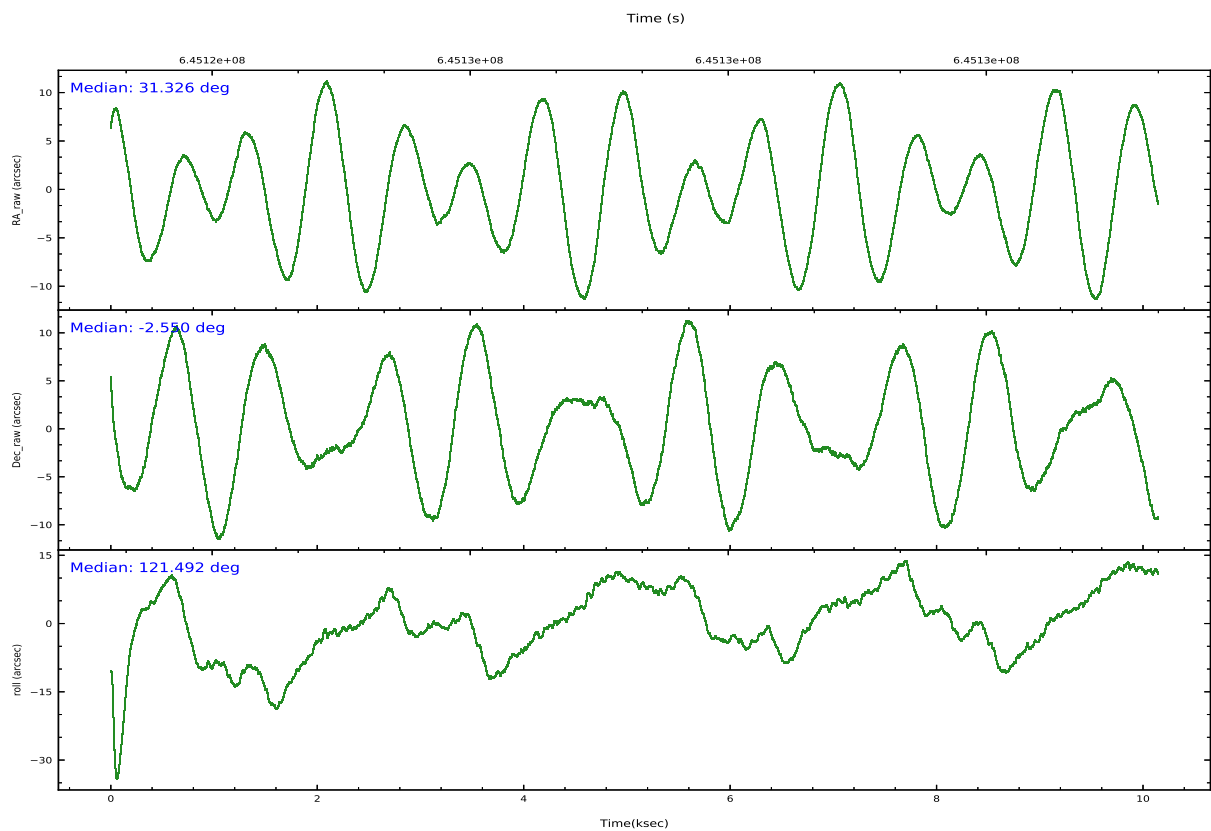
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3576	2691	3703	7534
	2%	3%	3%	7%
grade 1 events	321	31	139	85
	0%	0%	0%	0%
grade 2 events	18467	5174	9102	6111
	15%	6%	9%	6%
grade 3 events	1780	837	3407	2697
	1%	1%	3%	2%
grade 4 events	1749	847	3384	2484
	1%	1%	3%	2%
grade 5 events	8261	3467	9923	5339
	6%	4%	9%	5%
grade 6 events	32998	2153	23524	6823
	26%	2%	23%	6%
grade 7 events	55217	68066	46197	68993
	45%	81%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	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	31.350322	31.335304082905	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.562653	-2.5520547010944	Alternating exposures requested	N	N
[deg] Pointing Roll	121.342982	121.49209377992	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	645124165.184000	645123171.41363			
Observation start date	2018-06-11T17:08:16	2018-06-11T16:52:51			
[s] Observation end time (MET)	645134165.184000	645135188.00185			
Observation end date	2018-06-11T19:54:56	2018-06-11T20:13:08			
Read mode	TIMED	TIMED			

2.3 Aspect



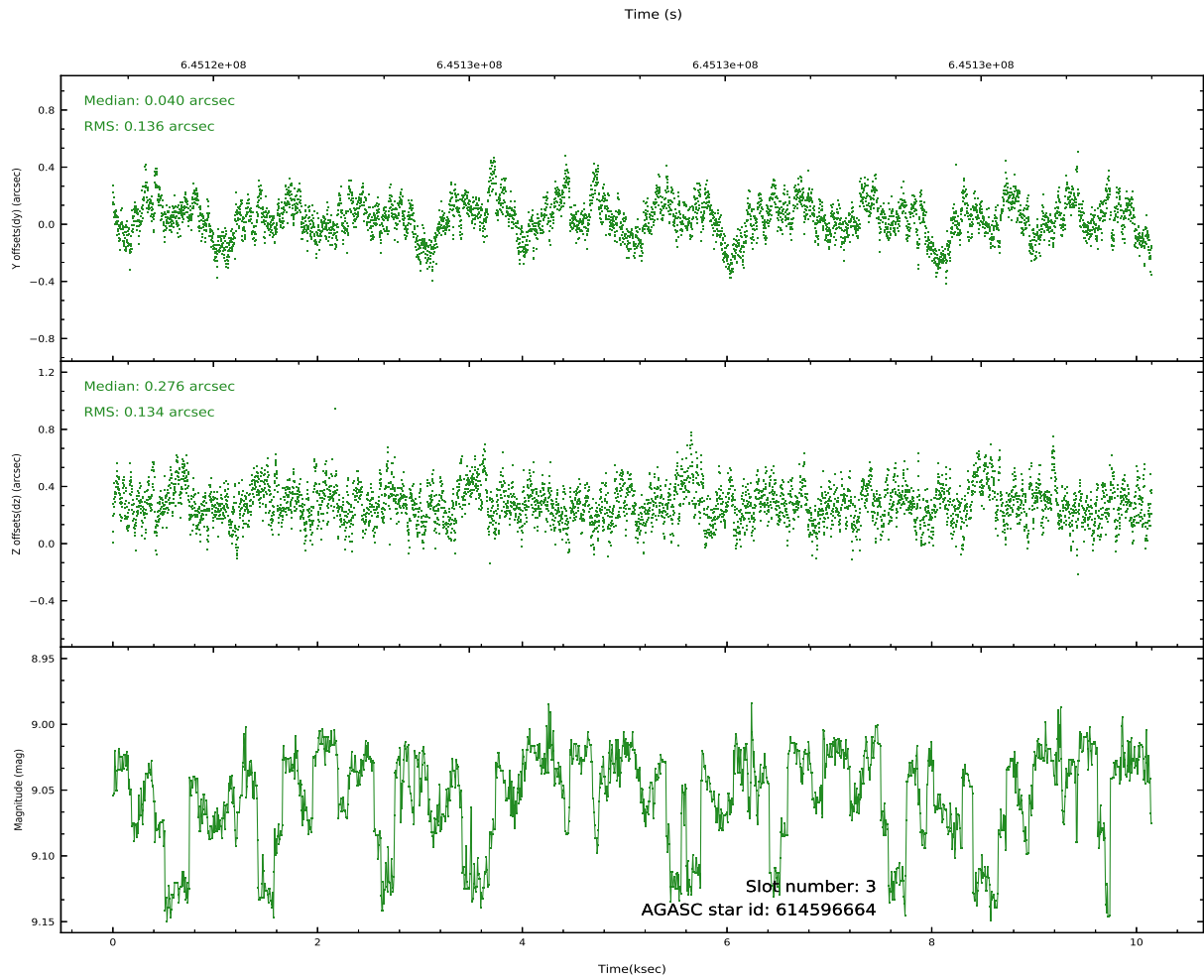
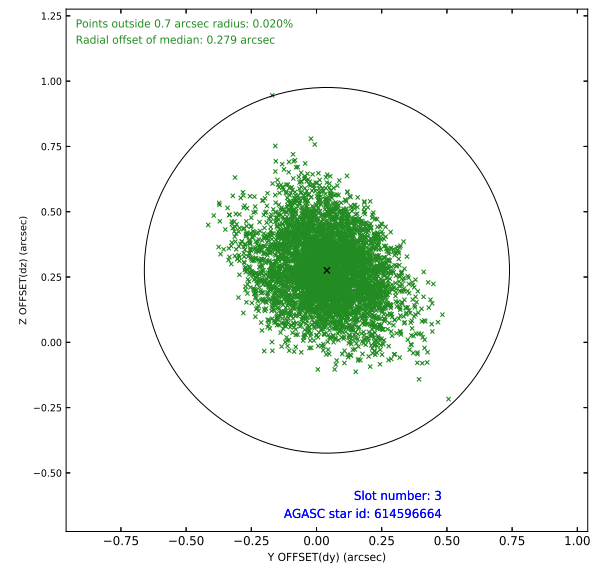
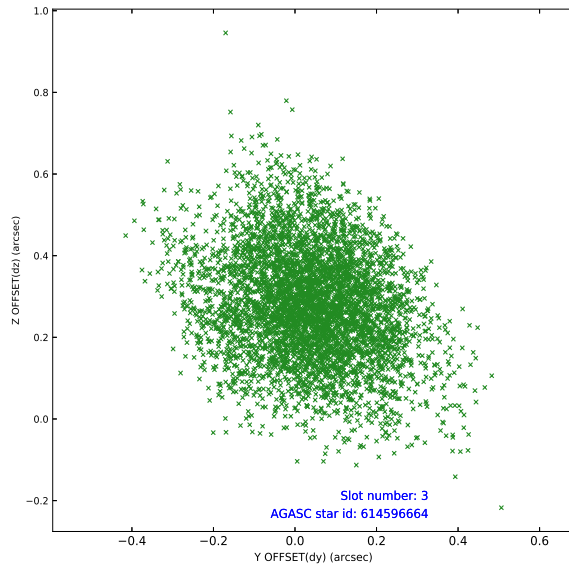


Slot Statistics

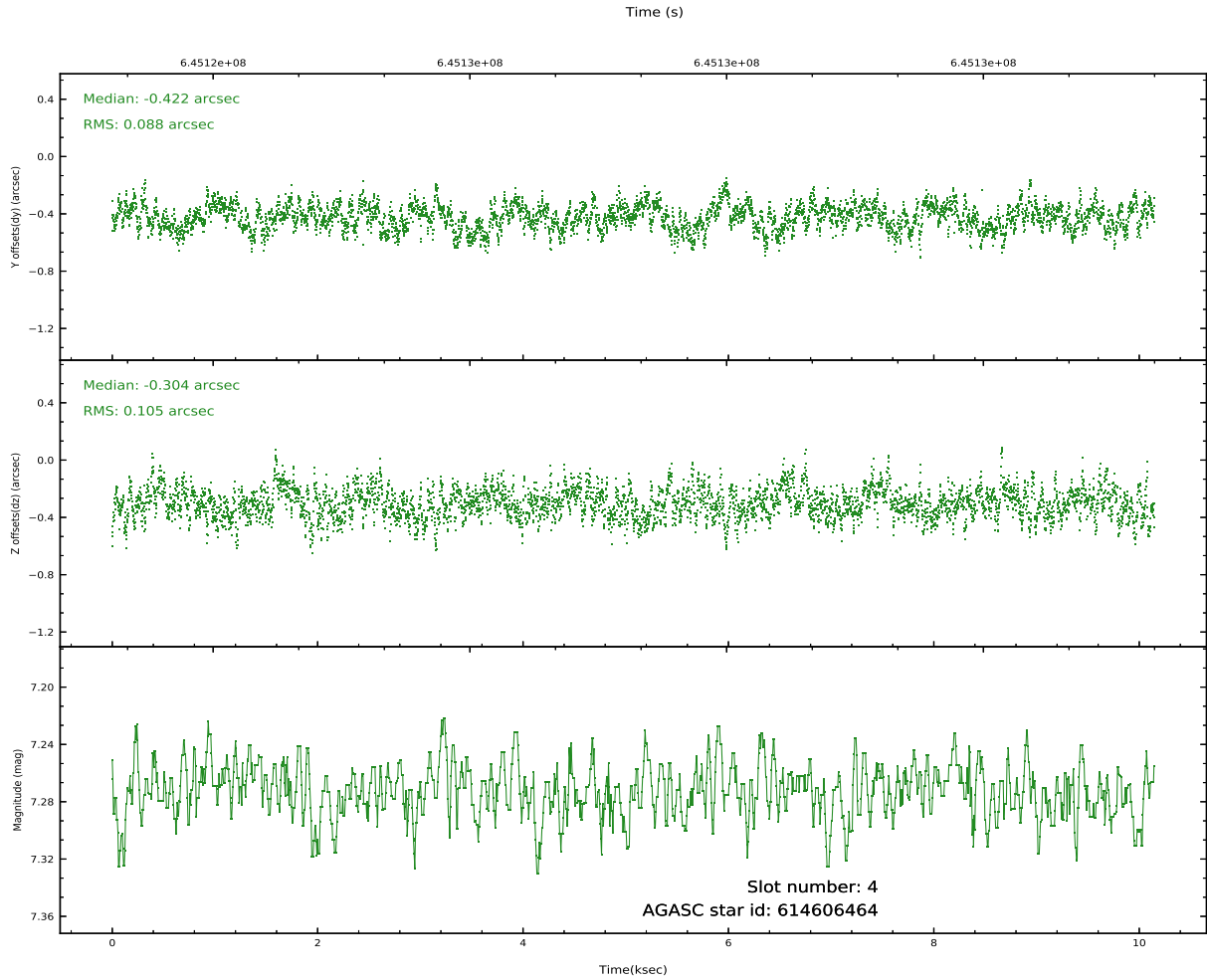
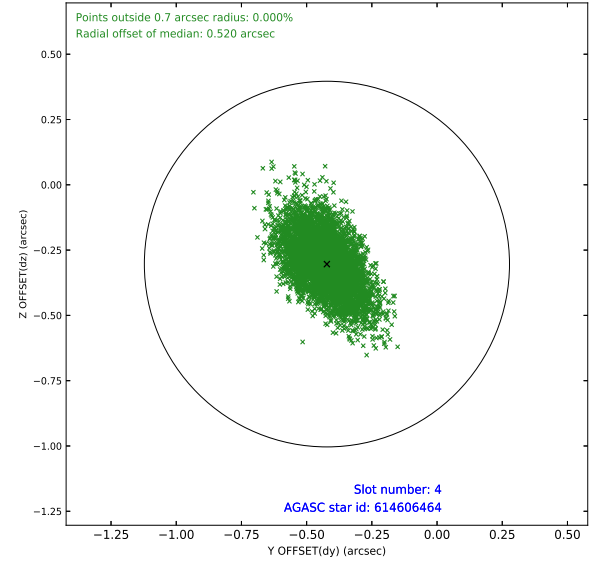
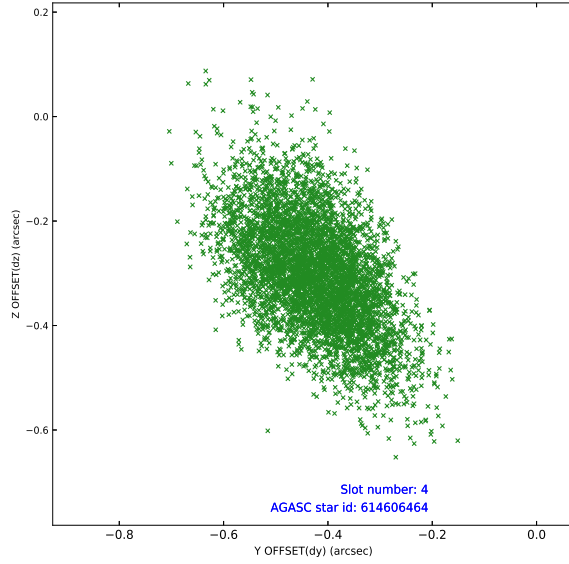
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2475	1.000	0.163	-0.073	0.043	0.057	0.000000	0.000000	-776.62	-1745
1	FID		ACIS-S-4	7.20	2475	1.000	0.079	-0.058	0.008	0.014	0.000000	0.000000	2136.62	162
2	FID		ACIS-S-5	7.23	2476	1.000	-0.274	0.140	0.040	0.052	0.000000	0.000000	-1828.95	157
3	GUIDE	used	614596664	9.05	4949	1.000	0.040	0.276	0.204	0.334	31.700746	-1.933754	1277.39	-2254
4	GUIDE	used	614606464	7.27	4949	1.000	-0.422	-0.304	0.142	0.242	30.717858	-2.377799	1750.22	1595
5	GUIDE	used	614990072	9.46	4943	1.000	0.256	0.443	0.230	0.367	32.113949	-2.755206	-2019.45	-1984
6	GUIDE	used	614990488	9.60	4941	1.000	0.124	-0.425	0.222	0.378	30.826422	-2.945757	-199.01	2324
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

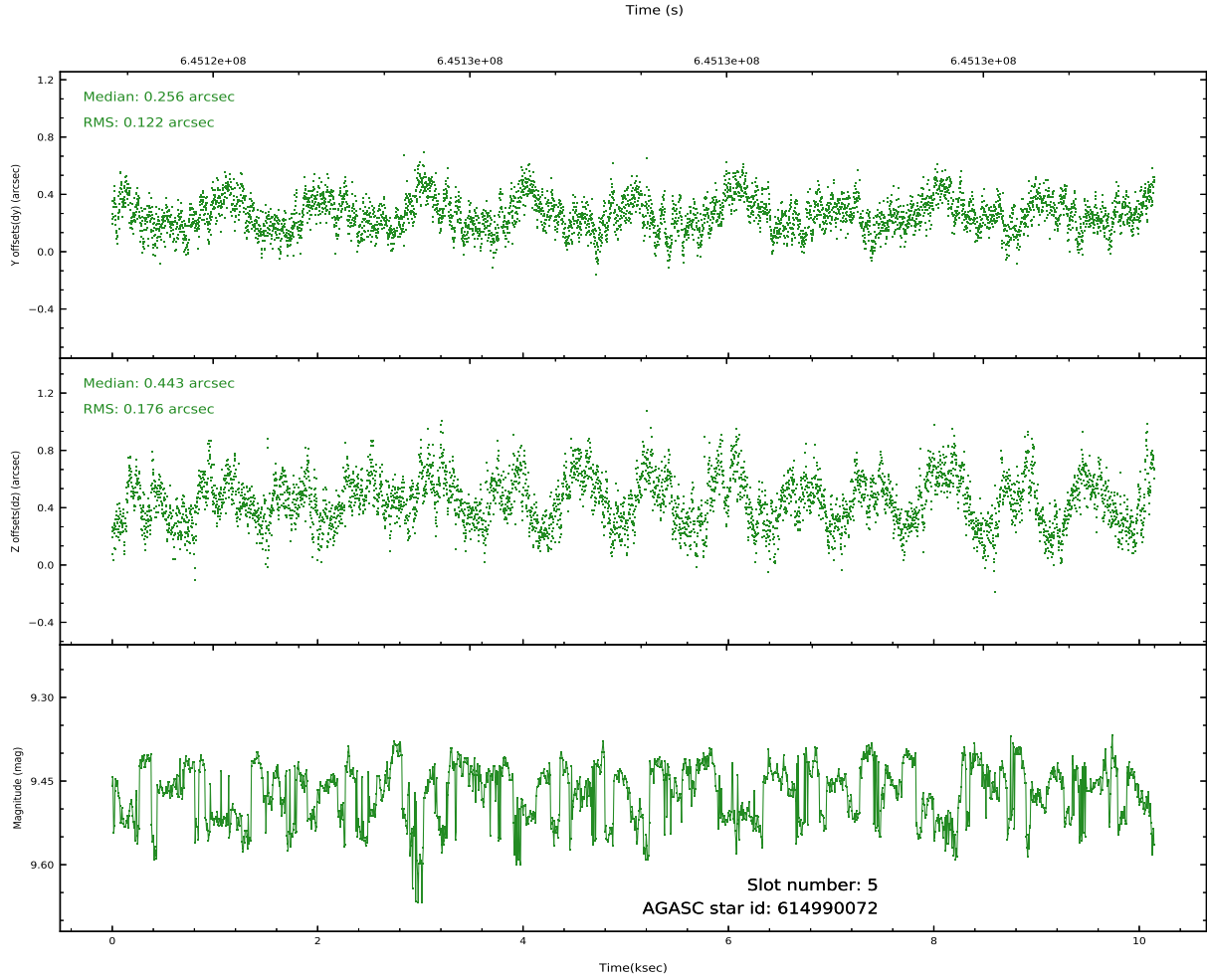
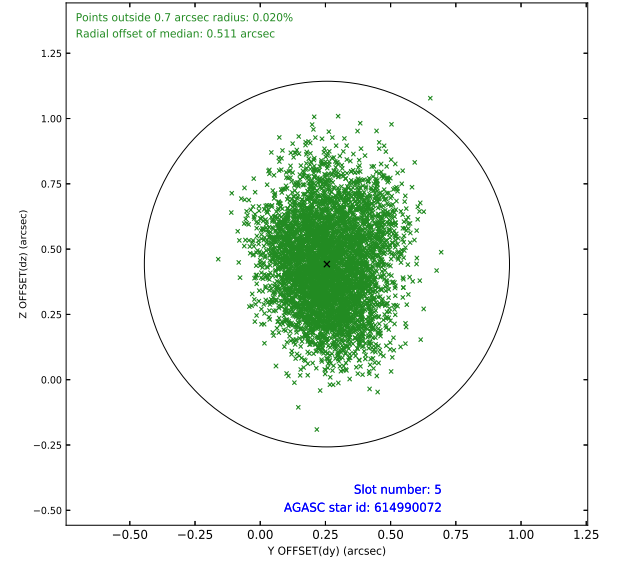
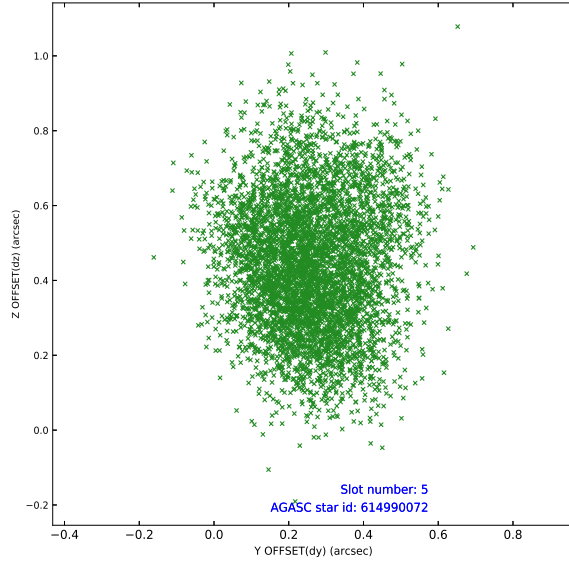
2.4.1 Slot 3



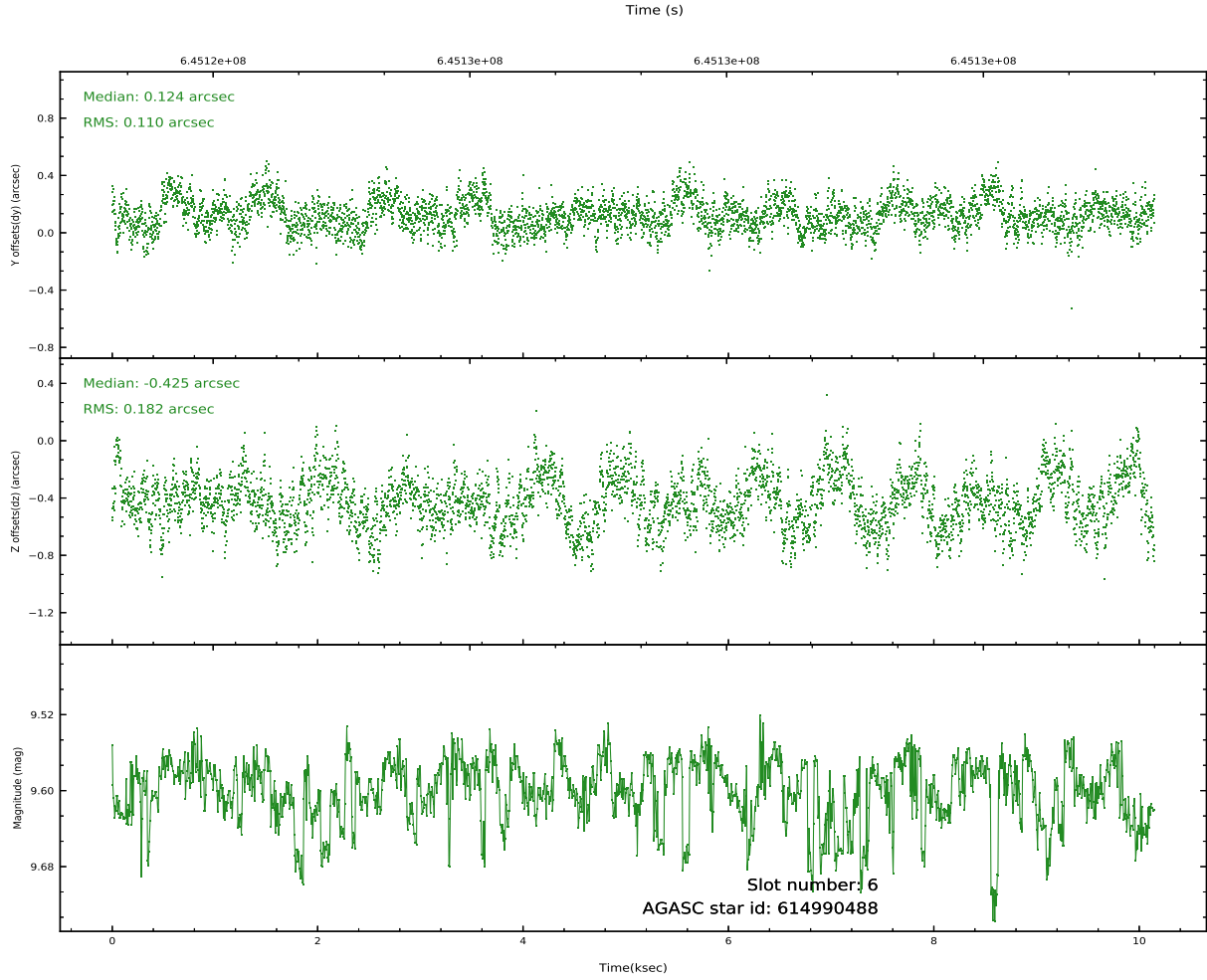
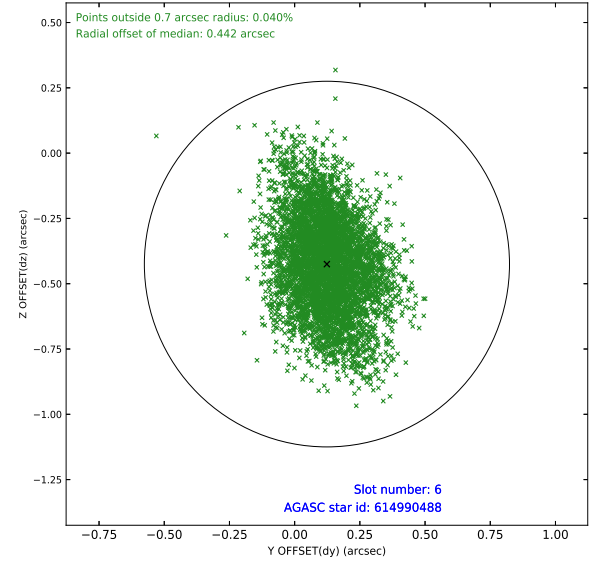
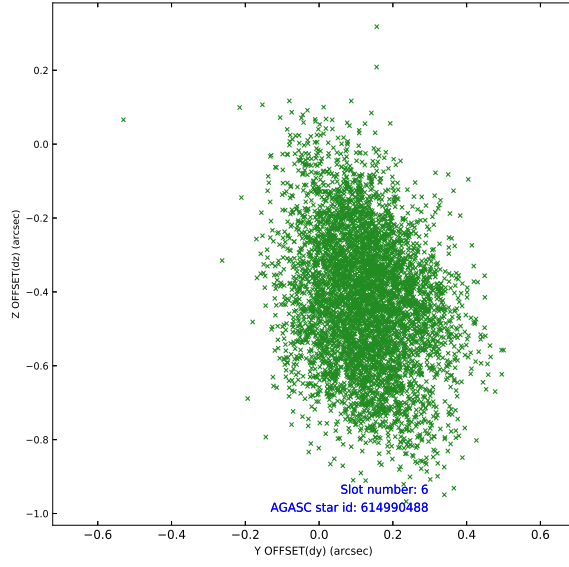
2.4.2 Slot 4



2.4.3 Slot 5

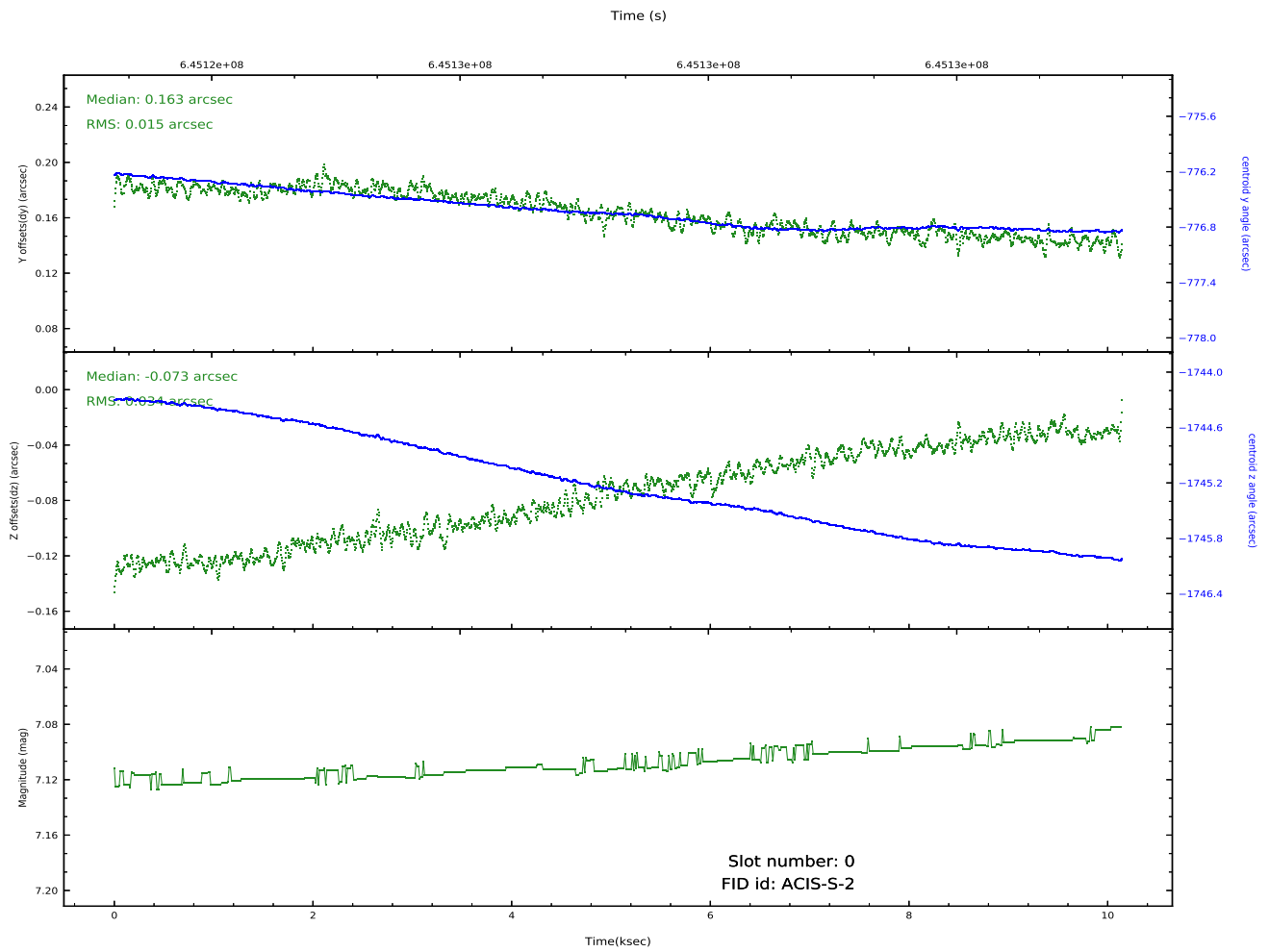
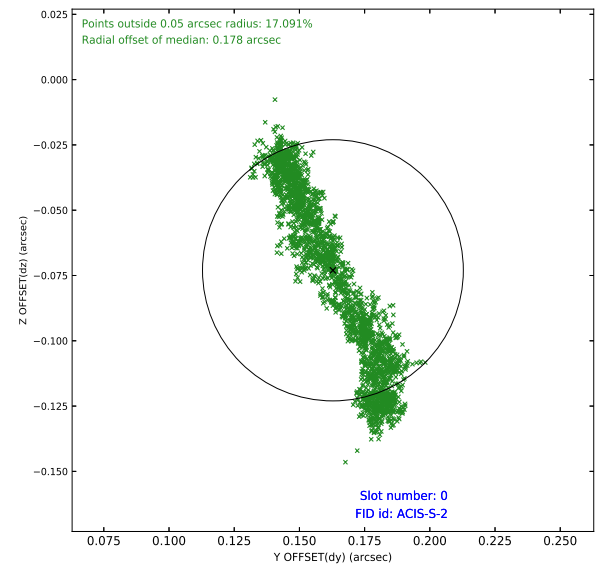
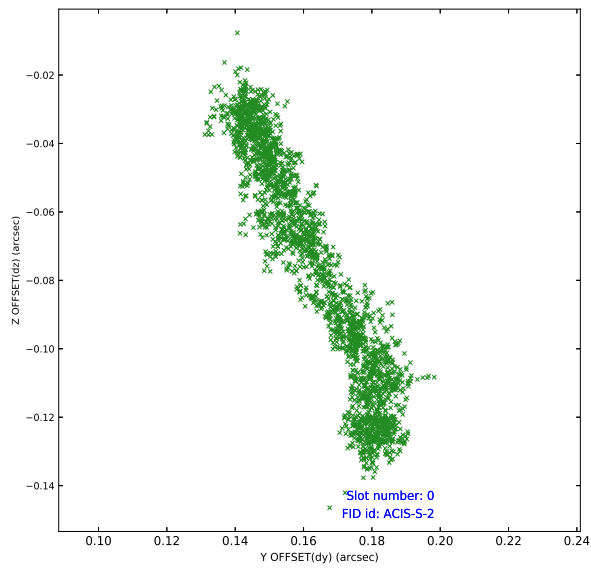


2.4.4 Slot 6

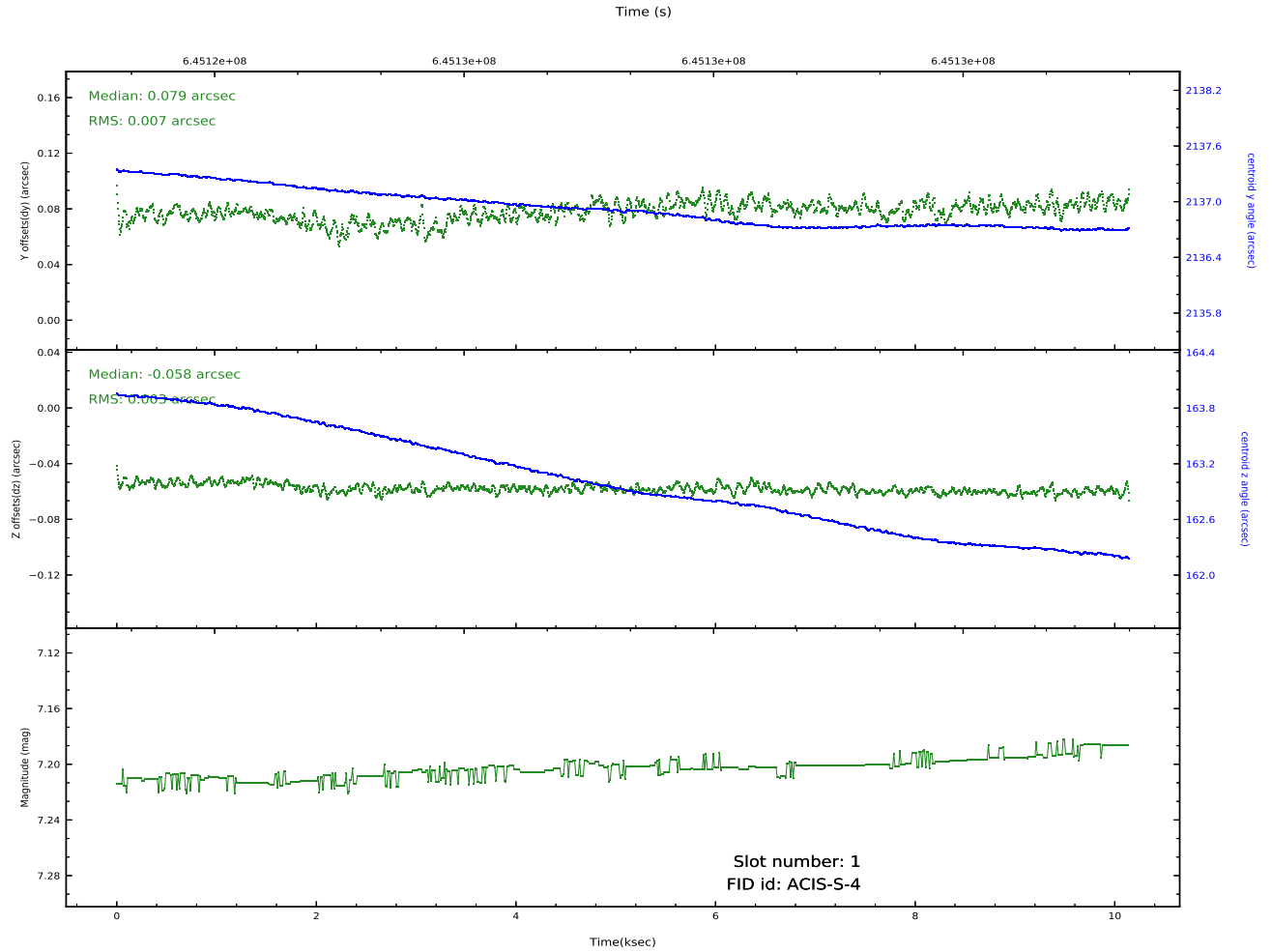
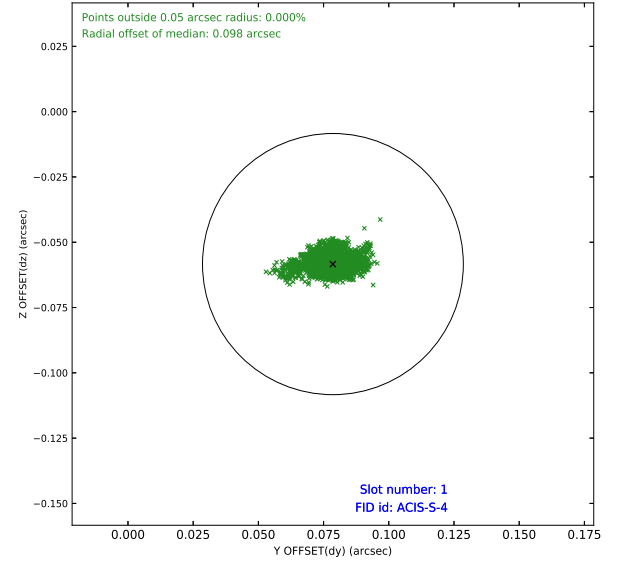
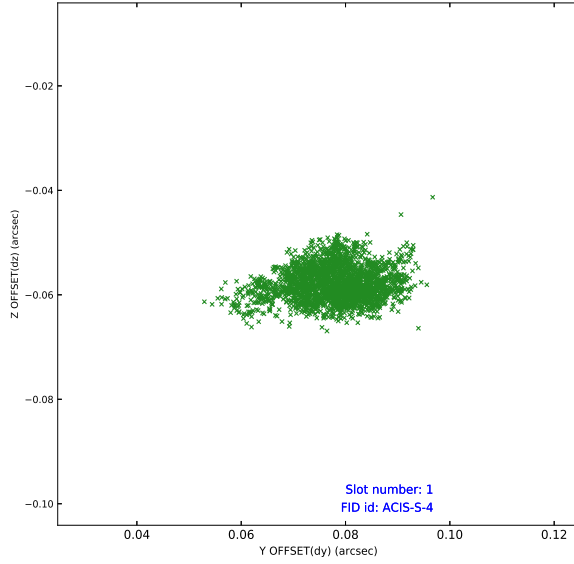


2.5 FID Slots

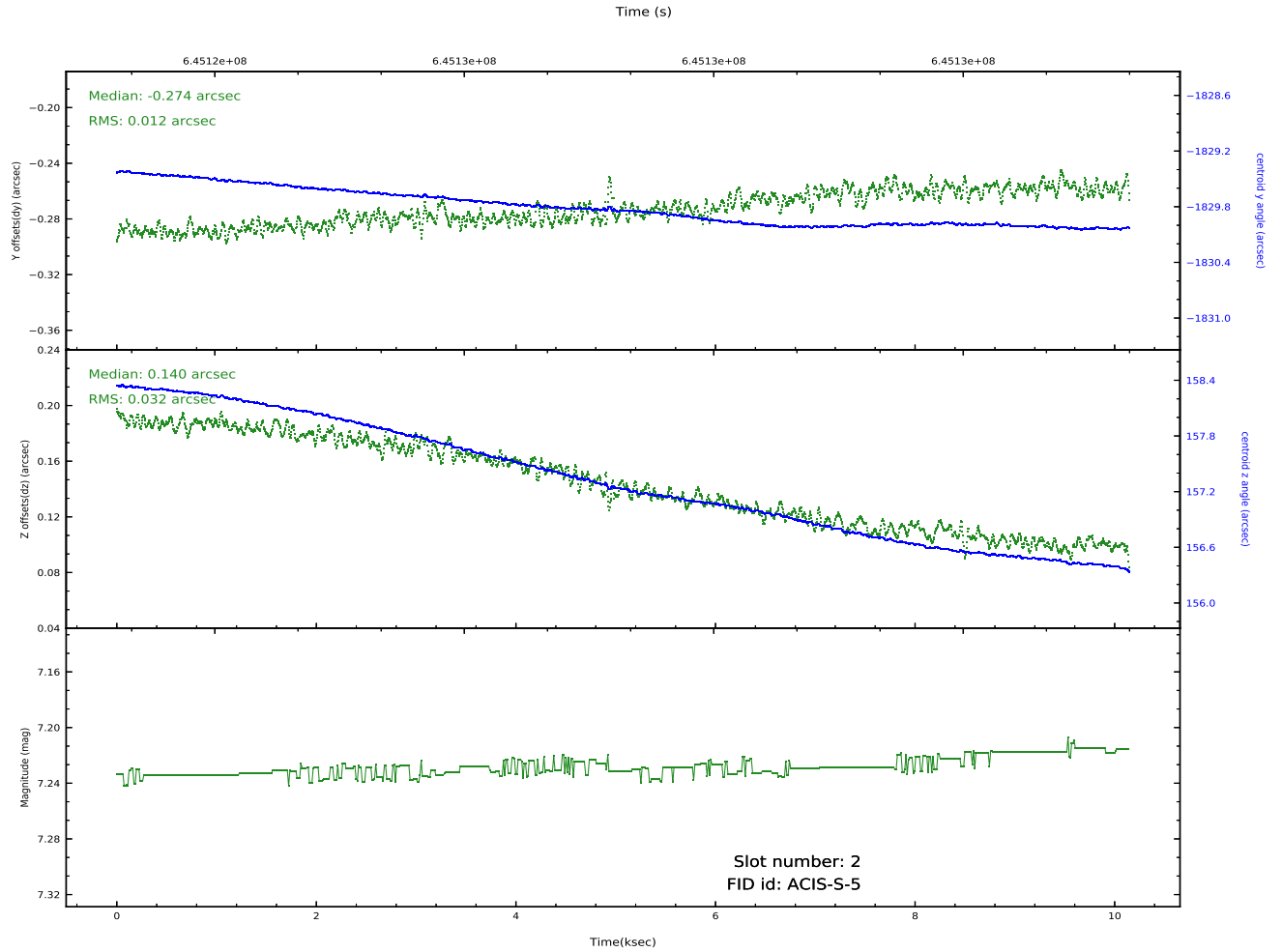
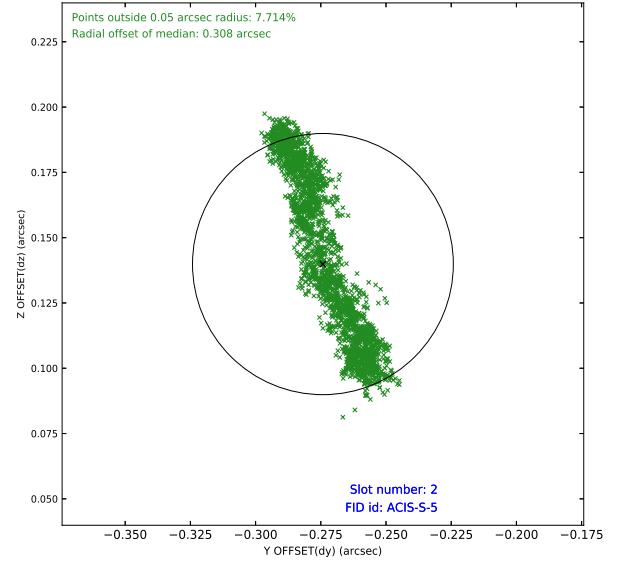
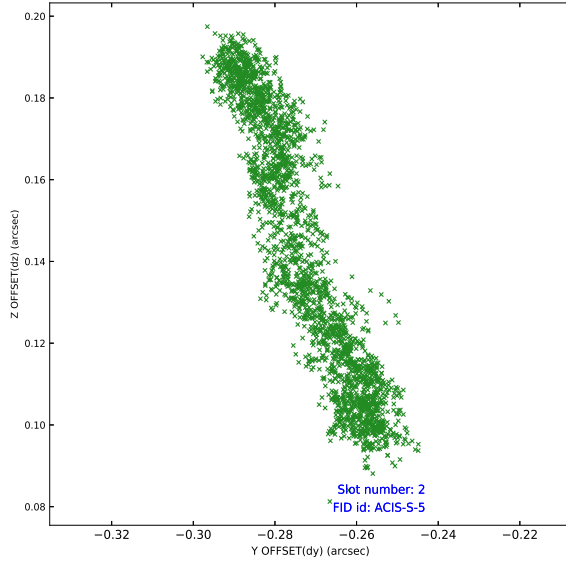
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.059500077486

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.