

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4499 - L2 Version 4
Chandra X-Ray Center

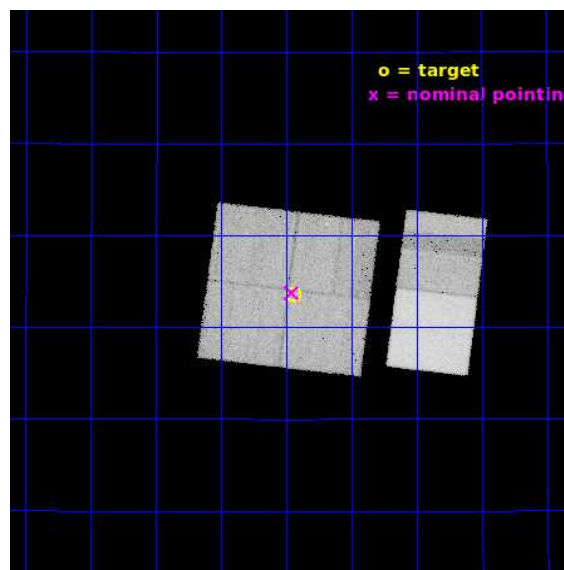
L2 Processing Date : Sep 27 2020

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1 Front

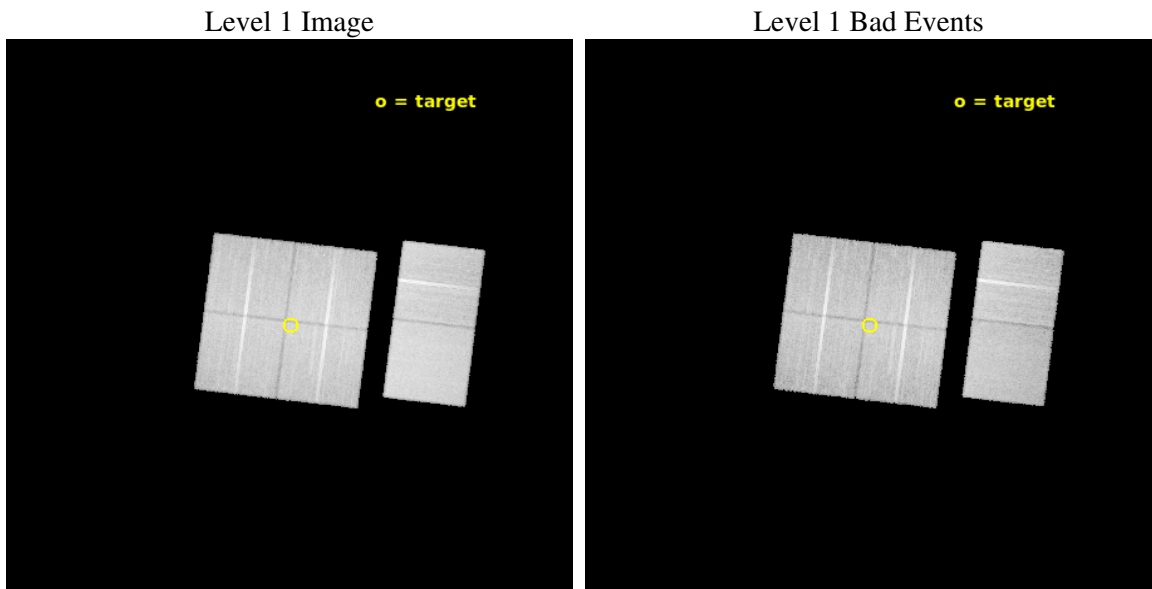
seq_num	200268	Sequence number
obs_id	4499	Observation id
title	Exploring X-rays in protostellar jets	Proposal title
observer	Dr. Bo Reipurth	Principal investigator
object	HH 300	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	66.734583	Observer's specified target RA [deg]
dec_targ	24.726389	Observer's specified target Dec [deg]
ra_nom	66.739442660965	Nominal RA [deg]
dec_nom	24.72960847731	Nominal Dec [deg]
roll_nom	96.996734164496	Nominal Roll [deg]
revision	4	Processing version of data
ontime	24931.199907124	Sum of GTIs [s]
livetime	24615.506042134	Livetime [s]
ontime0	24931.199907124	Sum of GTIs [s]
ontime1	24931.199907124	Sum of GTIs [s]
ontime2	24931.199907124	Sum of GTIs [s]
ontime3	24931.199907124	Sum of GTIs [s]
ontime6	24931.199907124	Sum of GTIs [s]
ontime7	24931.199907124	Sum of GTIs [s]
l2events	274109	Number of level 2 events



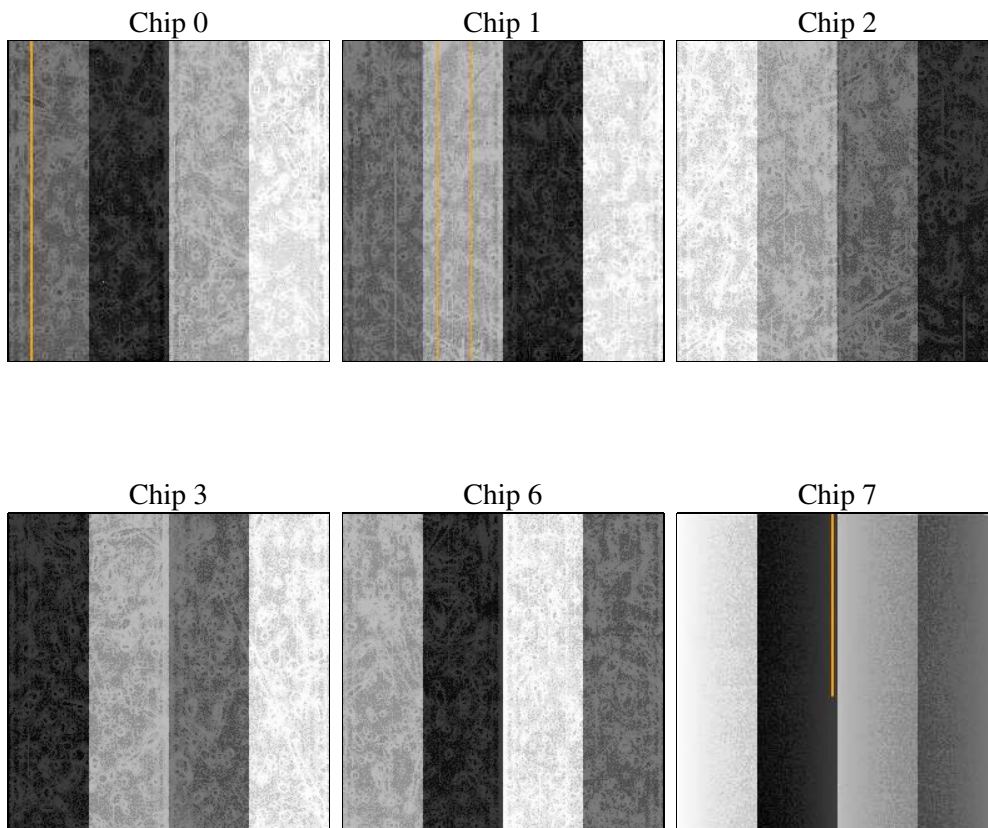
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	24806.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	24931.199907124	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	24931.199907124	Sum of GTIs [s]
date	2020-09-27T13:19:35	Date and time of file creation	ontime1	24931.199907124	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	24931.199907124	Sum of GTIs [s]
			ontime3	24931.199907124	Sum of GTIs [s]
			ontime6	24931.199907124	Sum of GTIs [s]
			ontime7	24931.199907124	Sum of GTIs [s]
			l1events	1205578	Number of level 1 events

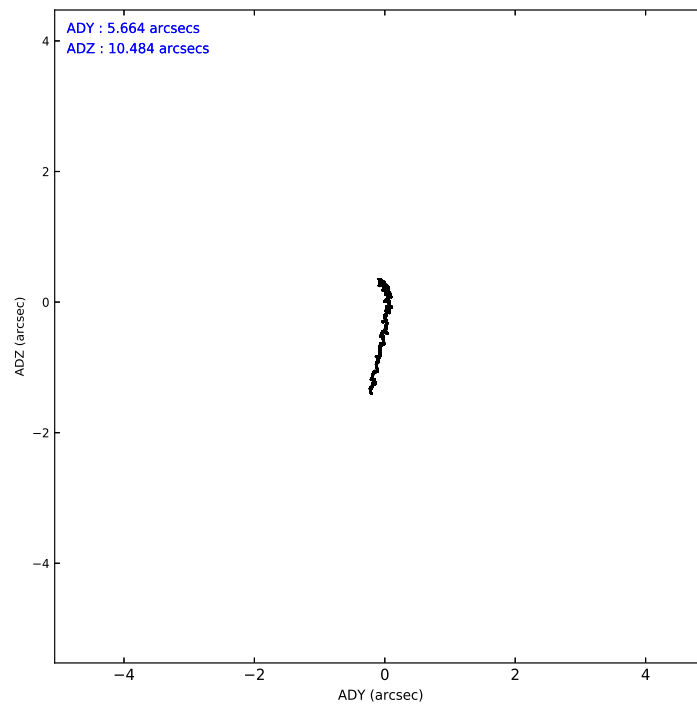
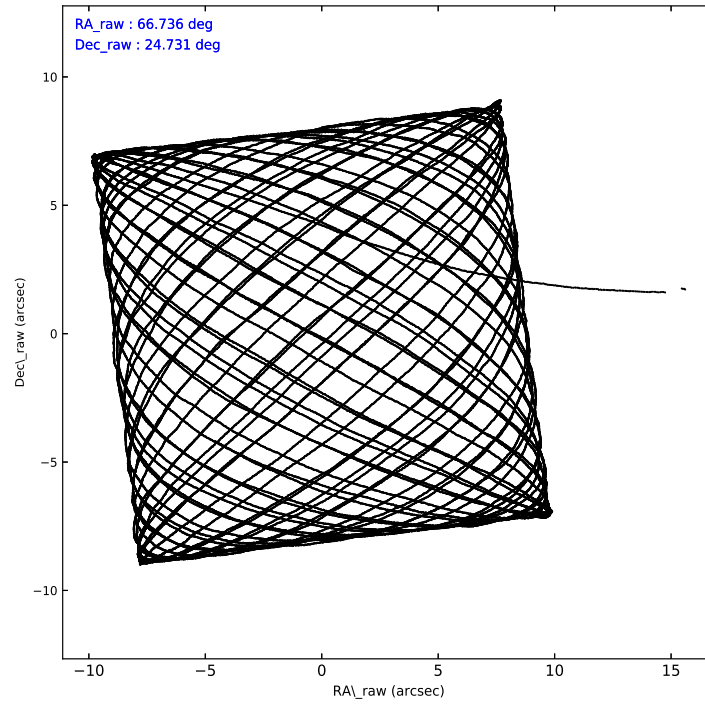
2.1.4 Events

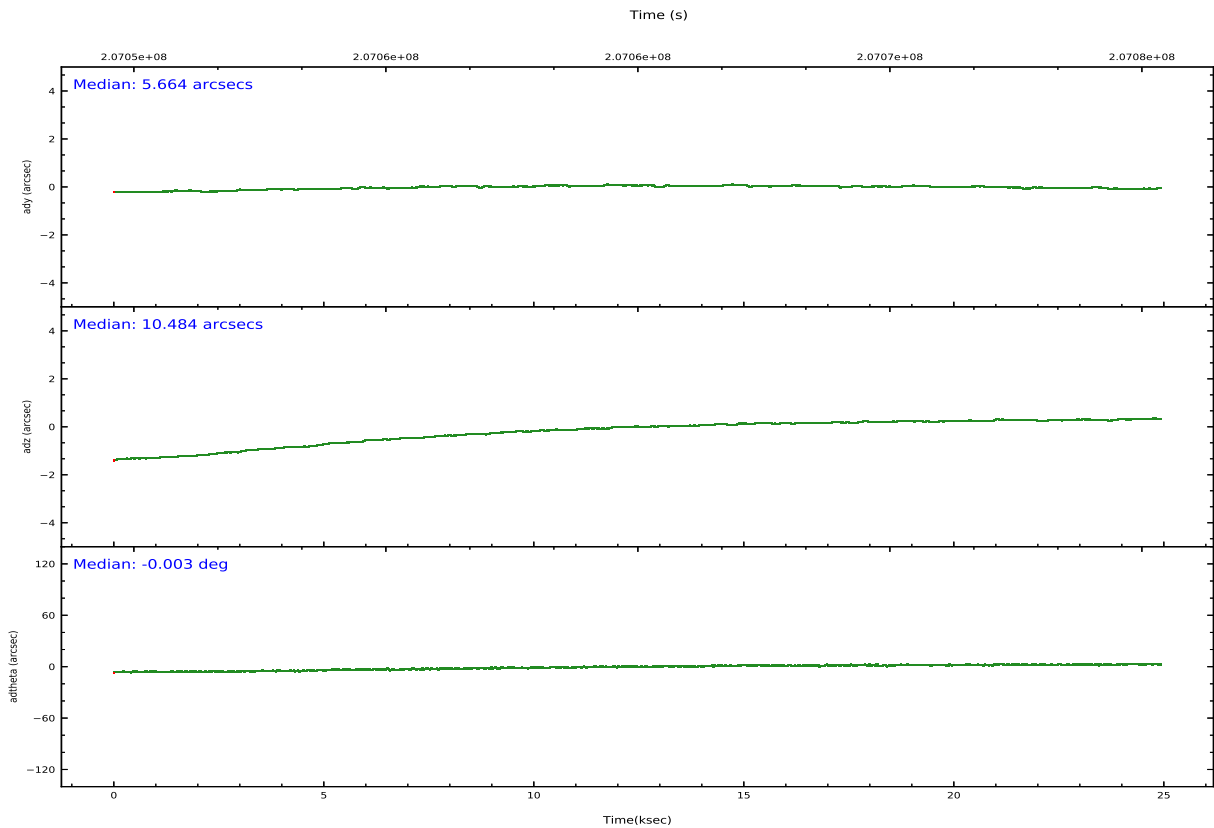
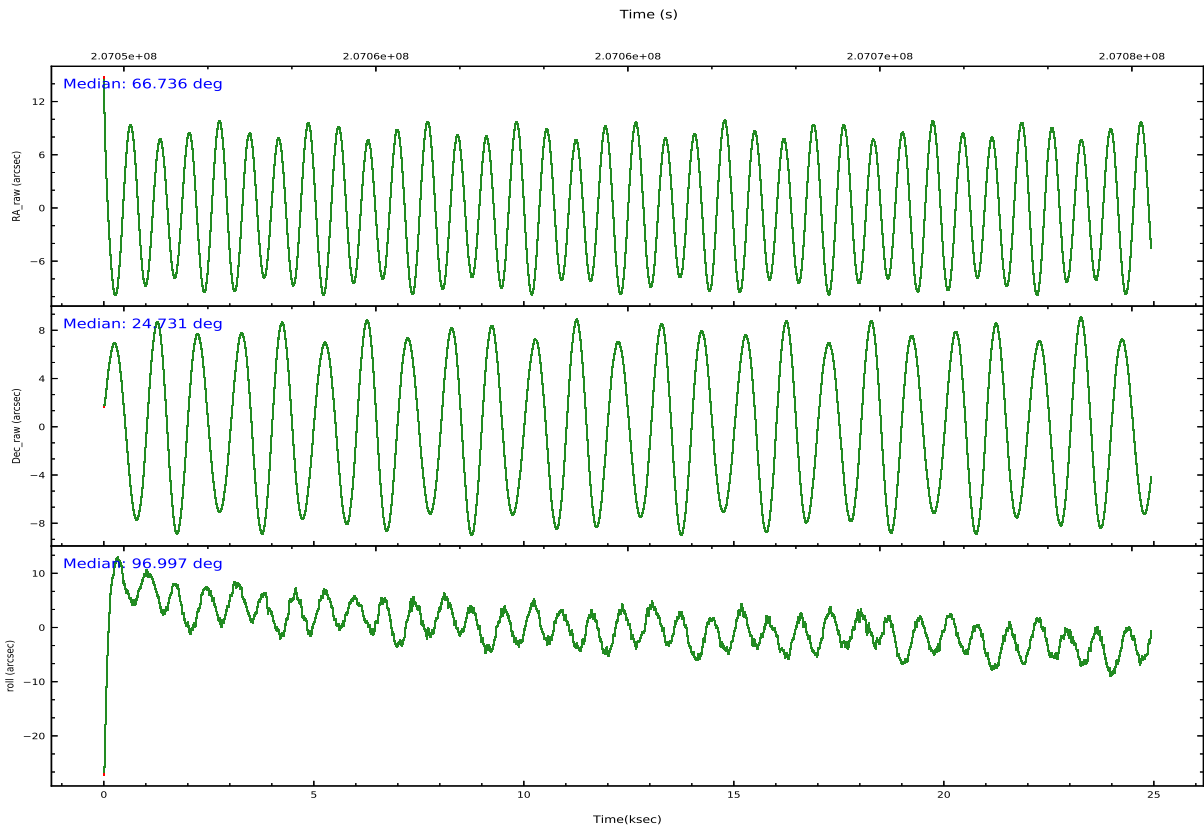
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	179308	184550	199101	198613	204898	239108	grade 0 events	16341	14830	18229	15973	16308	9655
rejected events	140327	143829	159562	159318	165021	134305		9%	8%	9%	8%	7%	4%
rejected %	78%	77%	80%	80%	80%	56%	grade 1 events	115	85	144	133	118	284
								0%	0%	0%	0%	0%	0%
							grade 2 events	10732	13082	9379	11395	11804	21299
								5%	7%	4%	5%	5%	8%
							grade 3 events	2167	2422	2048	2179	2132	9135
								1%	1%	1%	1%	1%	3%
							grade 4 events	2257	2349	2757	2337	2292	9310
								1%	1%	1%	1%	1%	3%
							grade 5 events	6536	6874	6548	7479	7633	22054
								3%	3%	3%	3%	3%	9%
							grade 6 events	7640	8222	7295	7583	7503	55927
								4%	4%	3%	3%	3%	23%
							grade 7 events	133520	136686	152701	151534	157108	111444
								74%	74%	76%	76%	76%	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	66.754221	66.739442660965	Subarray requested	NONE	NONE
[deg] Pointing Dec	24.709038	24.72960847731	Alternating exposures requested	N	N
[deg] Pointing Roll	96.779866	96.996734164496	[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)	207051653.184000	207050557.32874			
Observation start date	2004-07-24T10:19:49	2004-07-24T10:02:37			
[s] Observation end time (MET)	207076459.184000	207077480.49243			
Observation end date	2004-07-24T17:13:15	2004-07-24T17:31:20			
Read mode	TIMED	TIMED			

2.3 Aspect





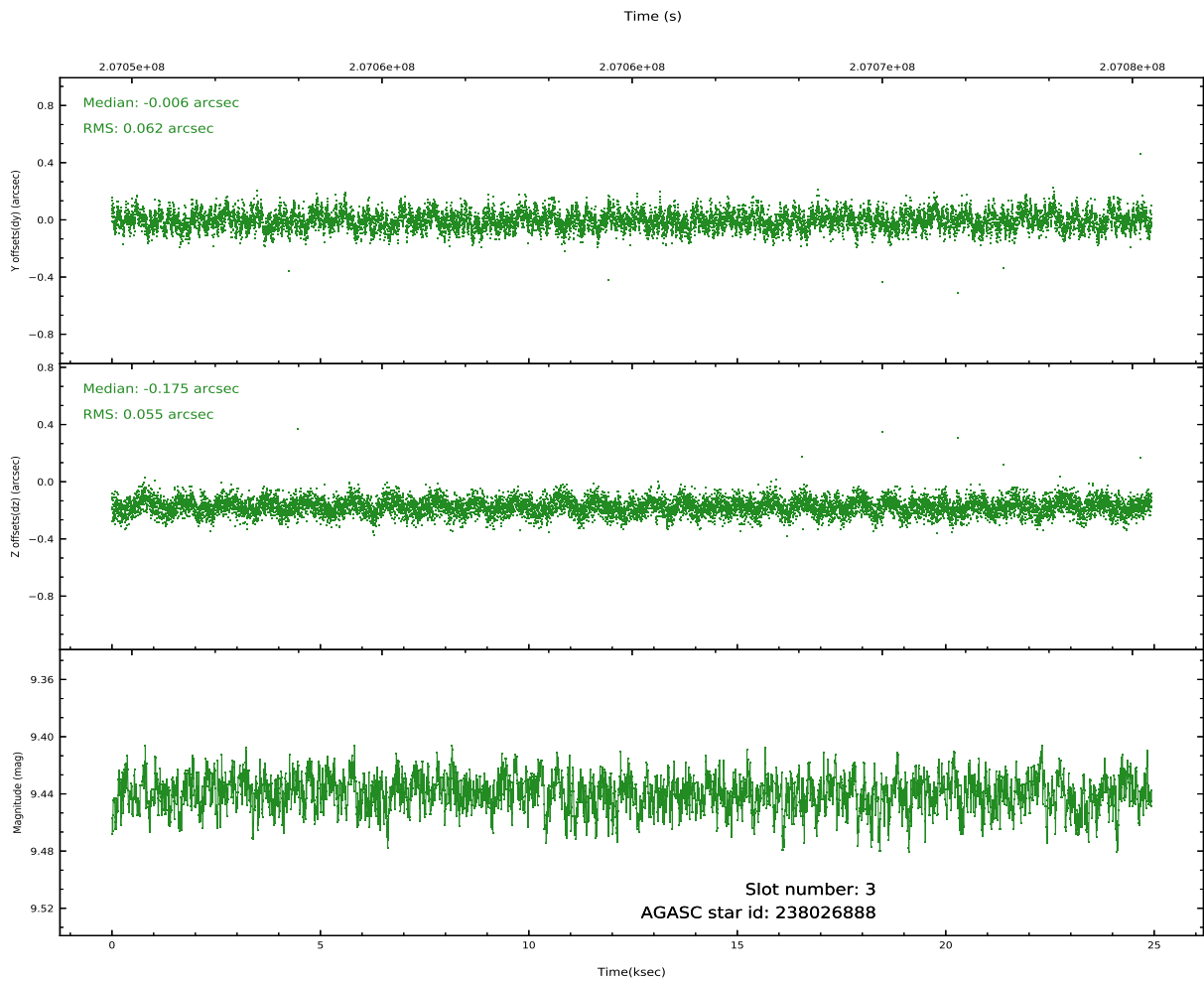
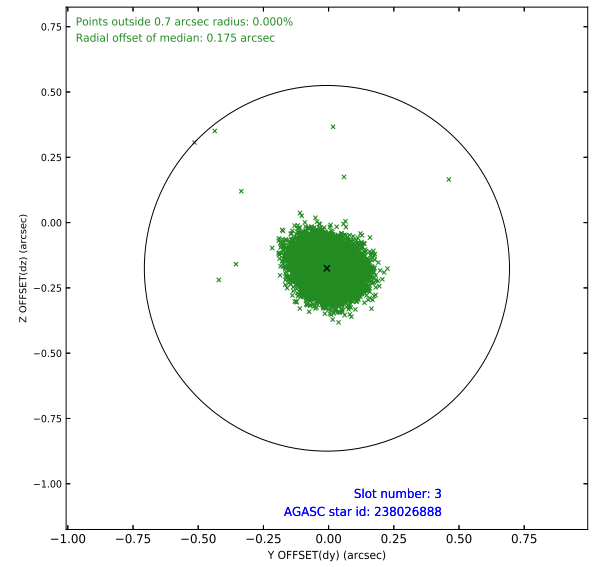
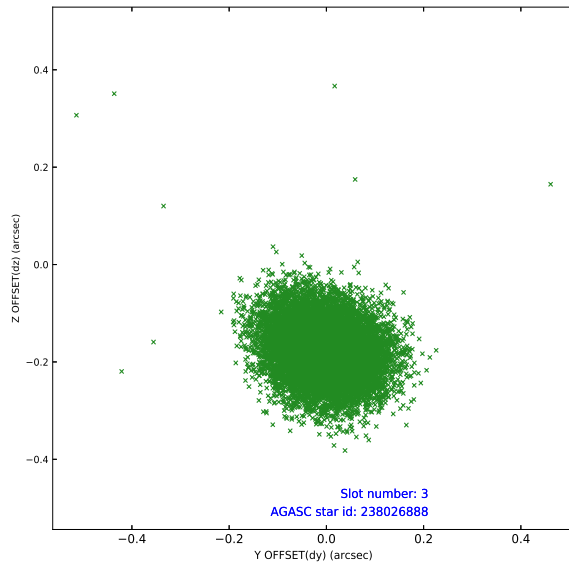
Slot Statistics

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	6082	1.000	0.053	-0.042	0.011	0.027	0.000000	0.000000	934.15	-833
1	FID		ACIS-I-5	7.23	6081	1.000	-0.150	0.071	0.017	0.044	0.000000	0.000000	-1814.13	1063
2	FID		ACIS-I-6	7.24	6082	1.000	0.005	0.043	0.017	0.060	0.000000	0.000000	399.46	1708
3	GUIDE	used	238026888	9.44	12158	1.000	-0.006	-0.175	0.087	0.142	66.193938	24.362072	-1019.77	1971
4	GUIDE	used	238551608	9.02	12157	1.000	-0.010	0.045	0.075	0.123	66.891877	25.061588	1207.52	-595
5	GUIDE	used	238554208	8.81	12163	1.000	-0.196	-0.118	0.071	0.112	66.177176	25.161922	1844.81	1674
6	GUIDE	used	239731088	7.48	12159	1.000	0.061	0.163	0.046	0.072	67.084109	24.117817	-2239.97	-824
7	GUIDE	used	239731296	8.82	12160	1.000	0.153	0.083	0.071	0.115	67.110301	24.149622	-2136.41	-923

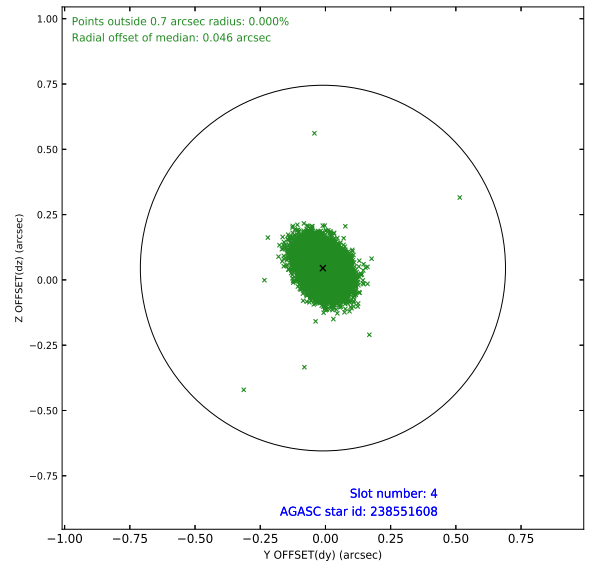
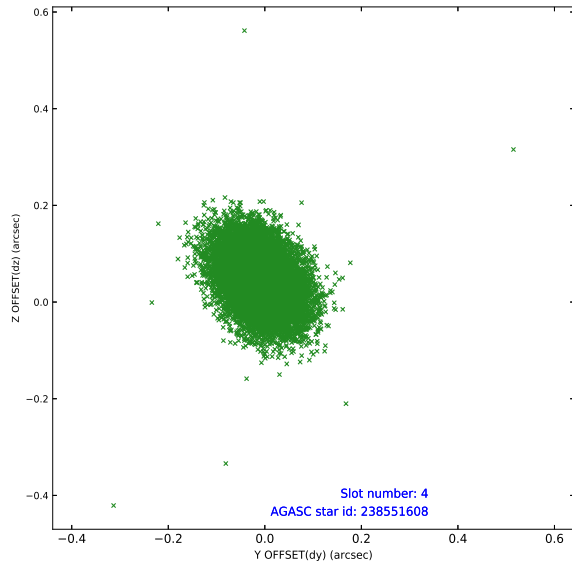
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2.4 Star Slots

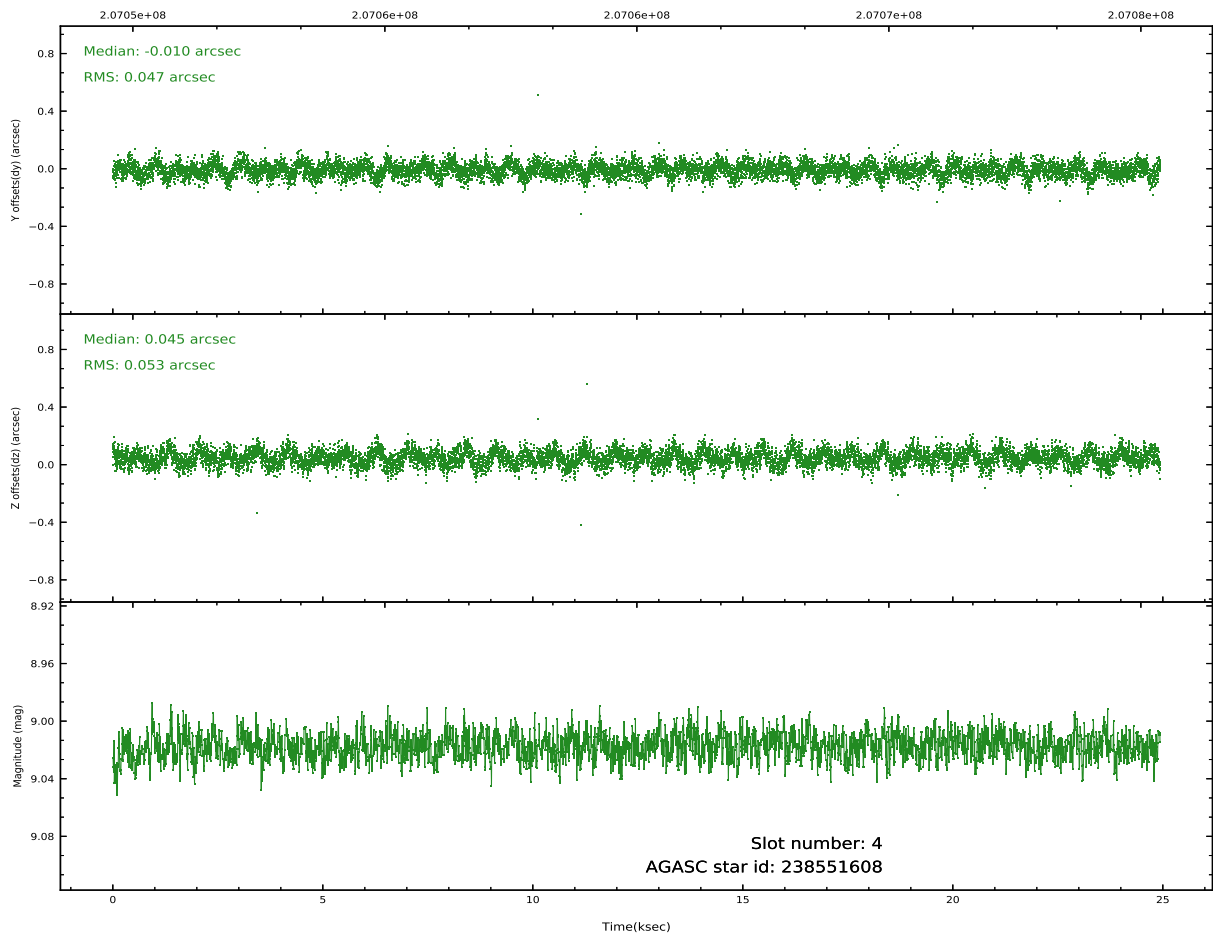
2.4.1 Slot 3



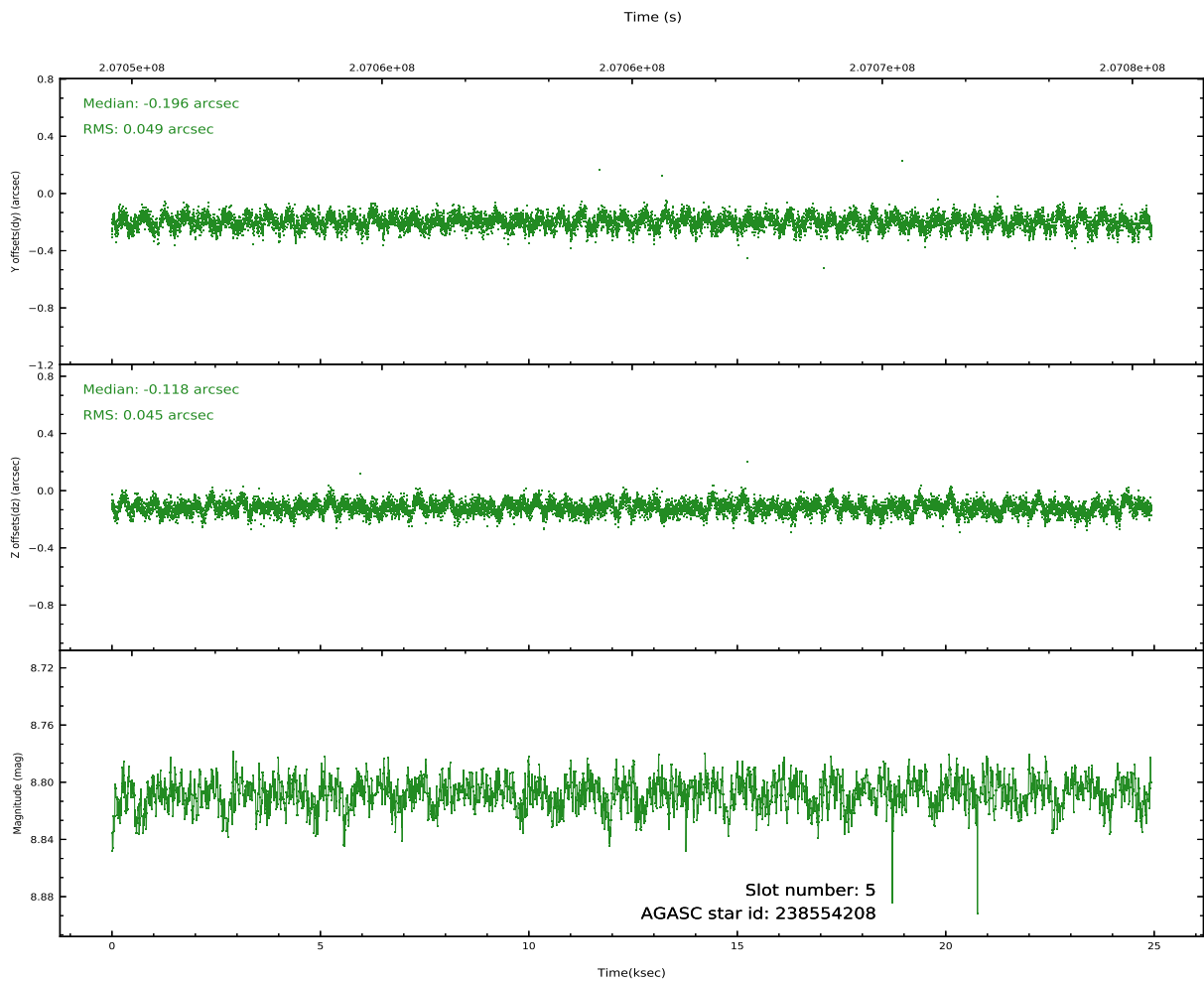
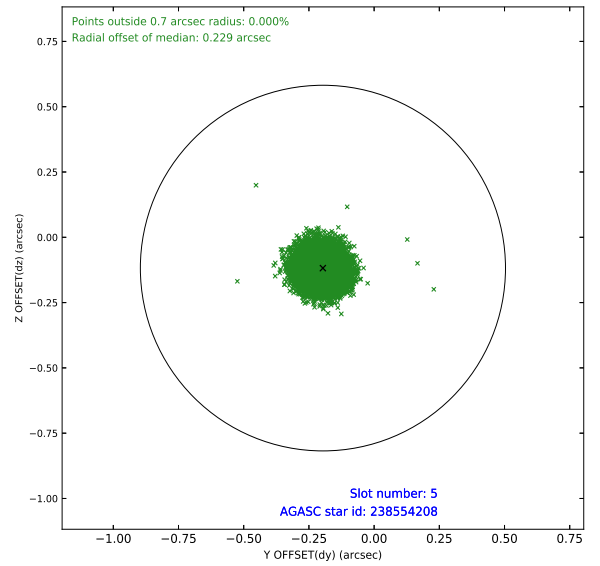
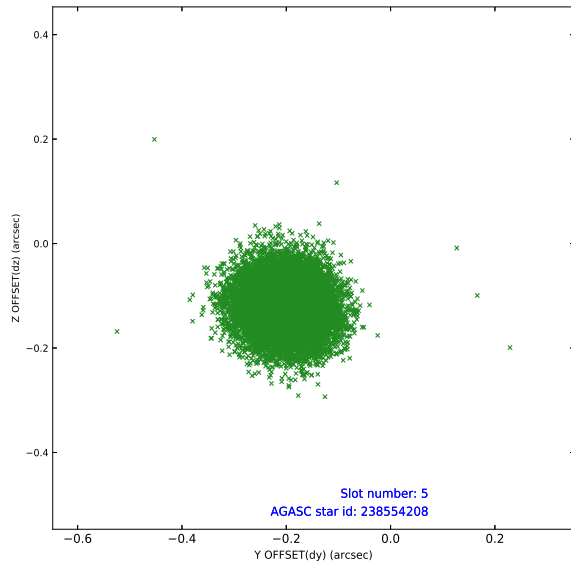
2.4.2 Slot 4



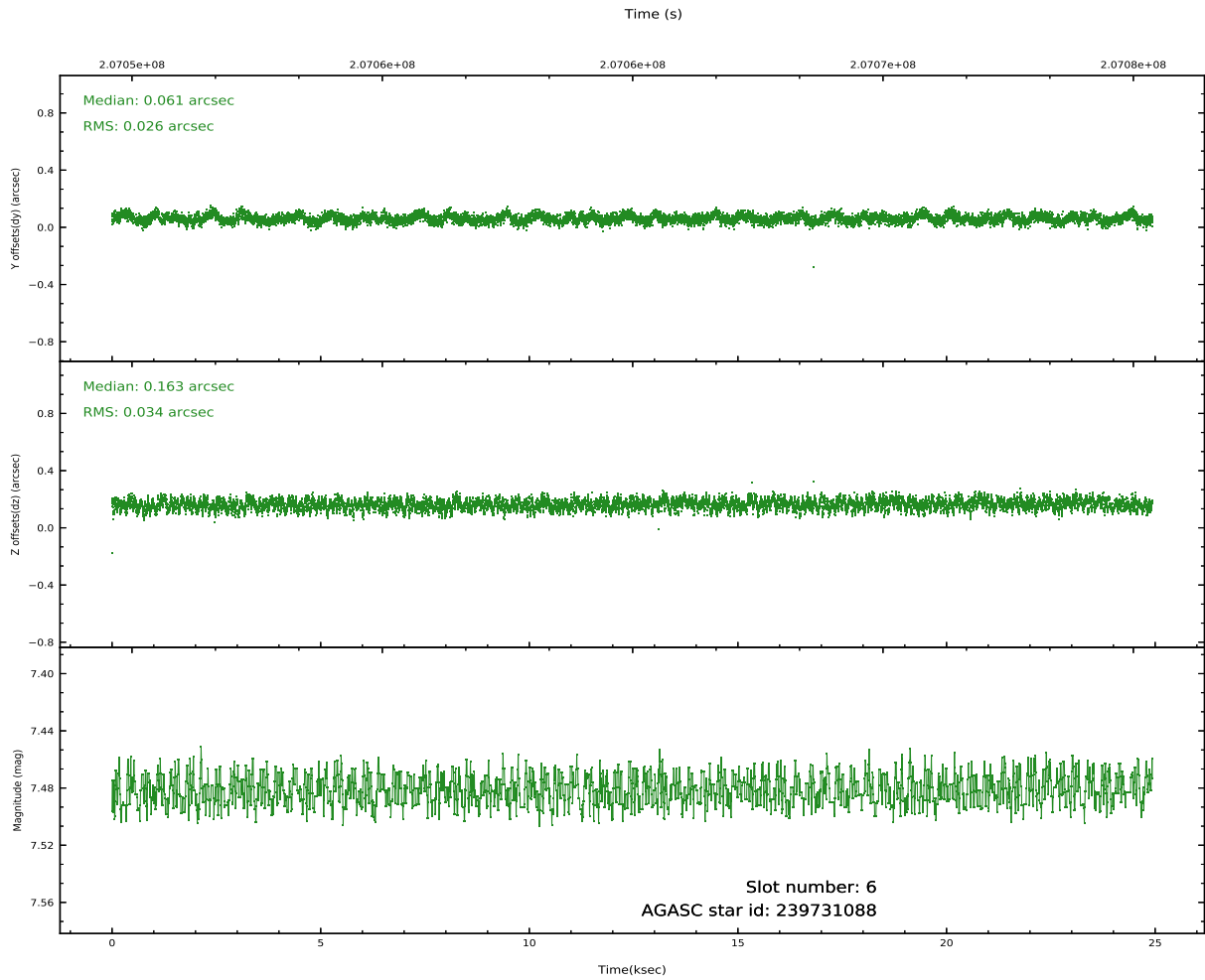
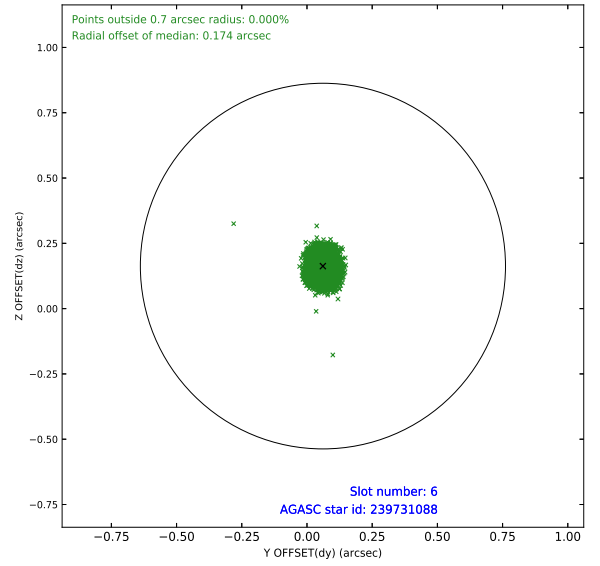
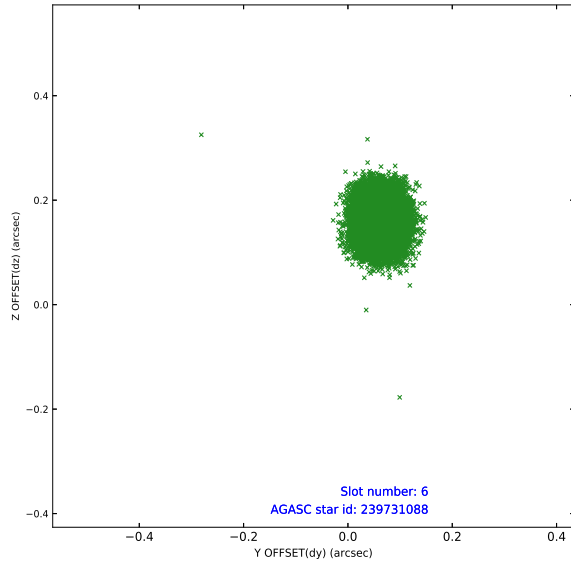
Time (s)



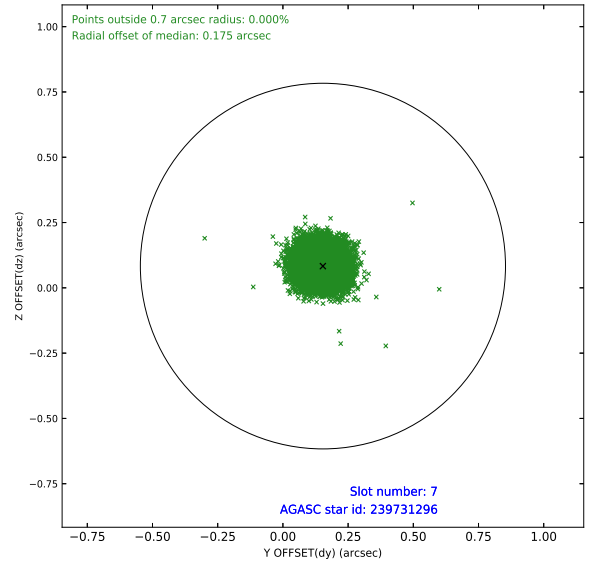
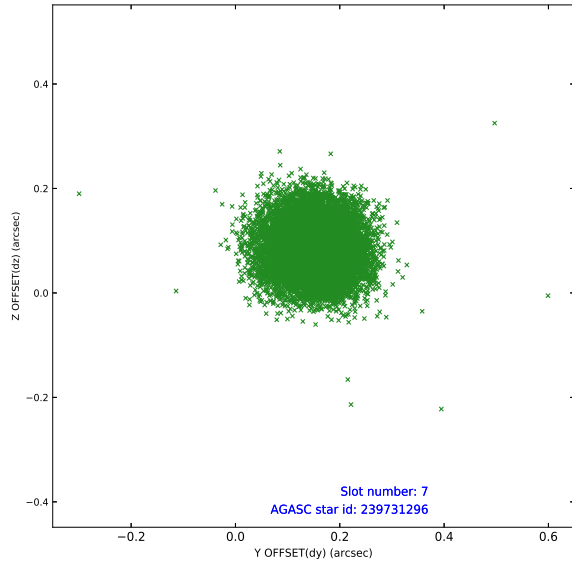
2.4.3 Slot 5



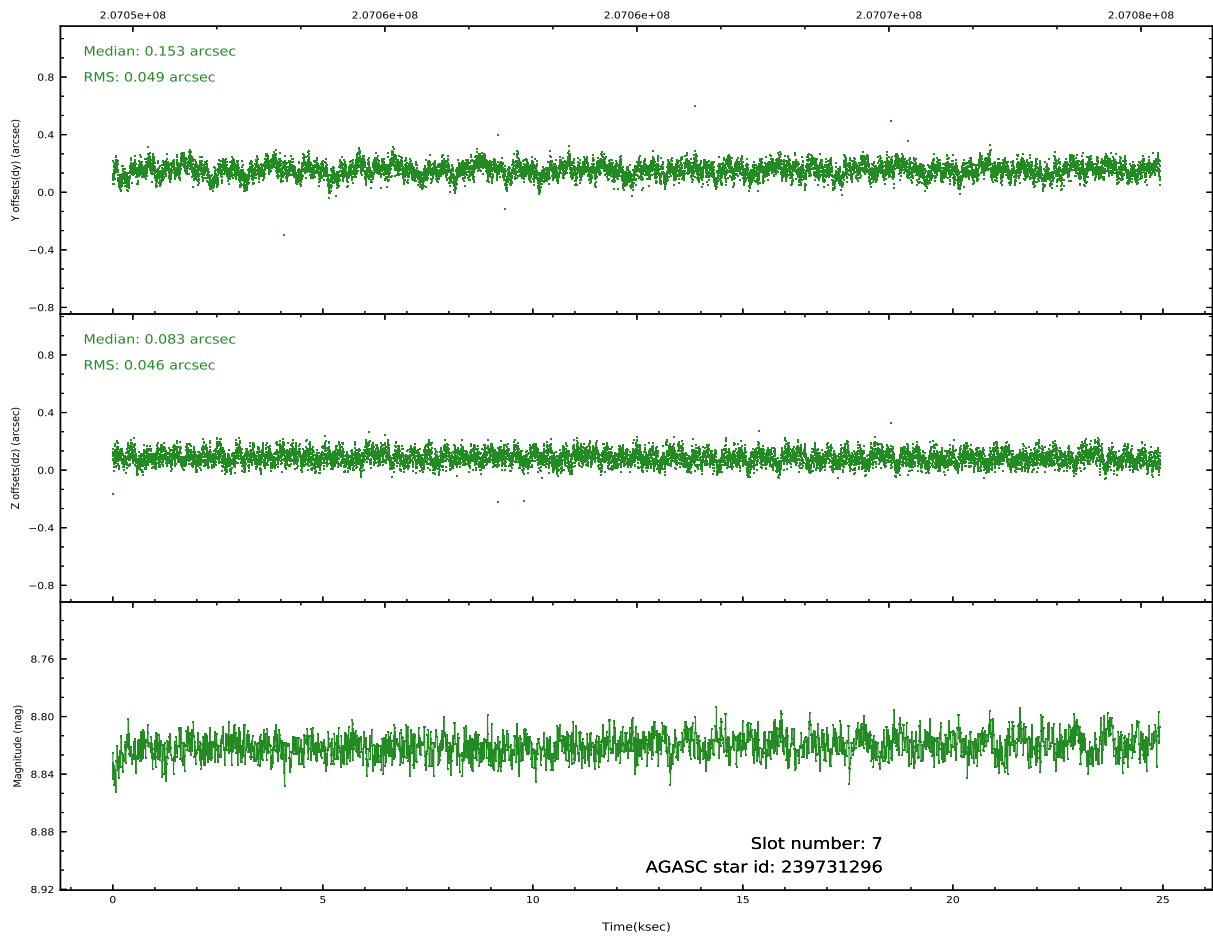
2.4.4 Slot 6



2.4.5 Slot 7

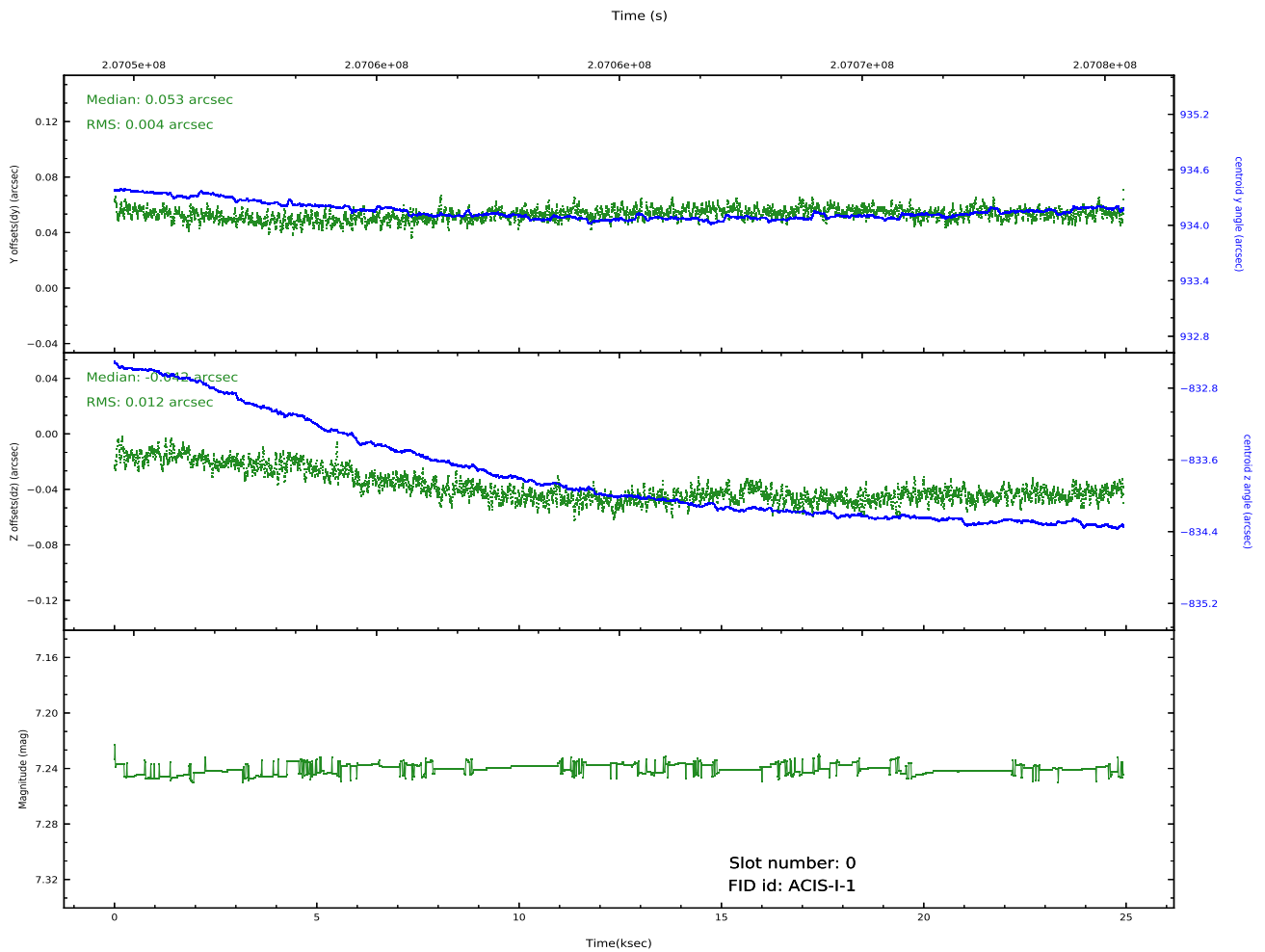
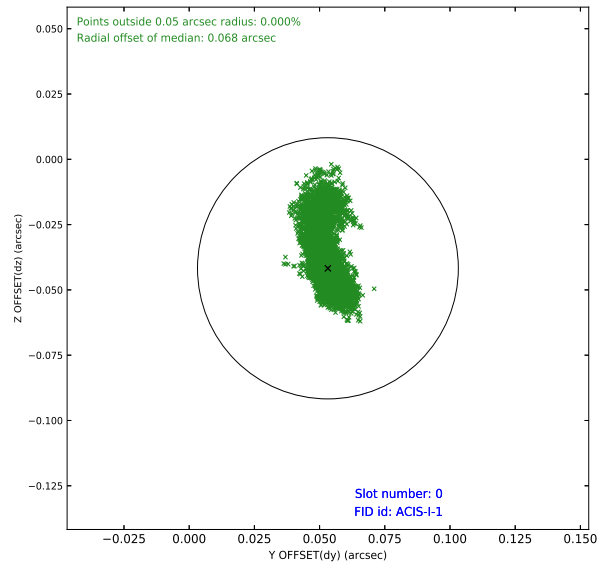
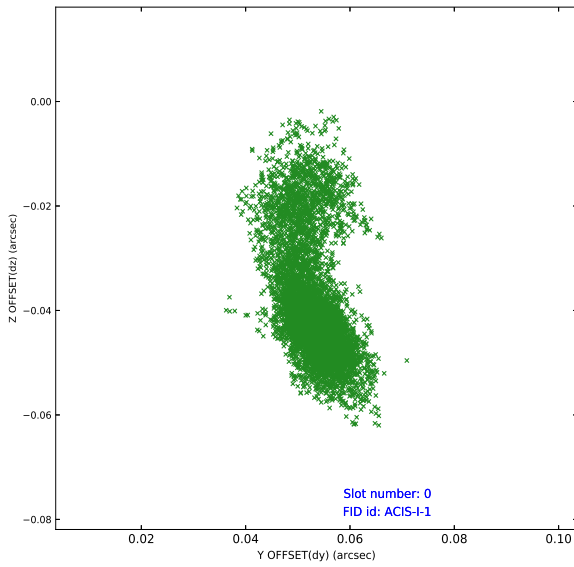


Time (s)

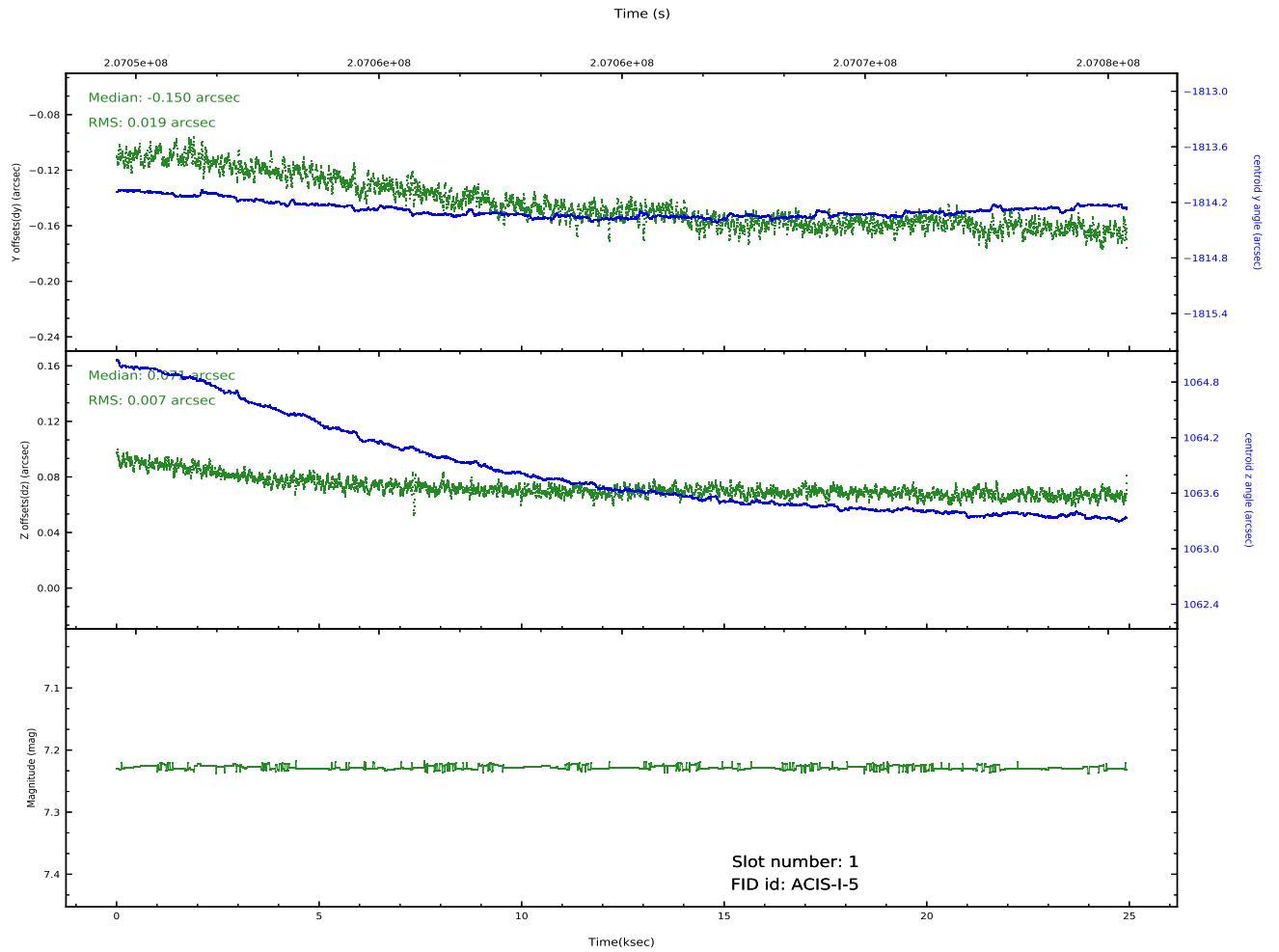
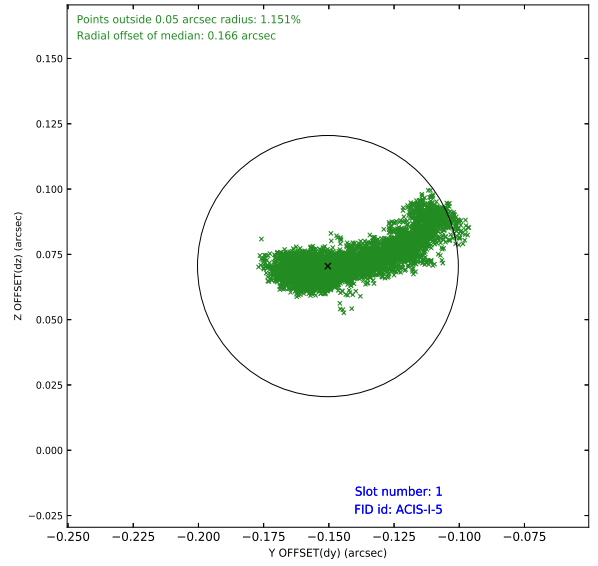
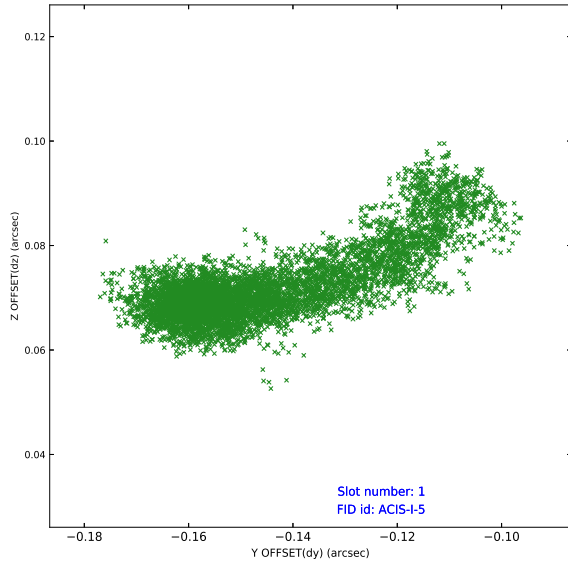


2.5 FID Slots

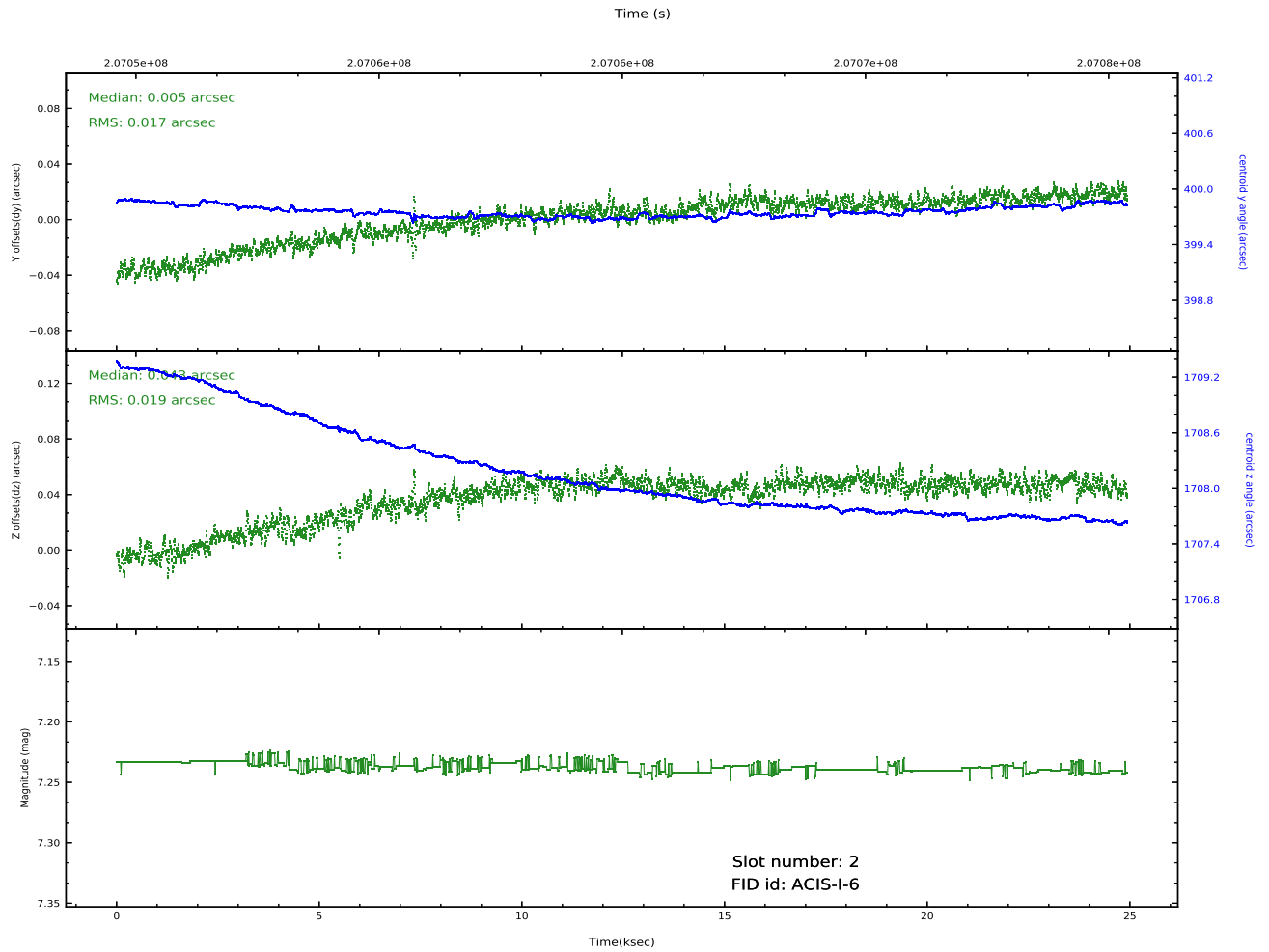
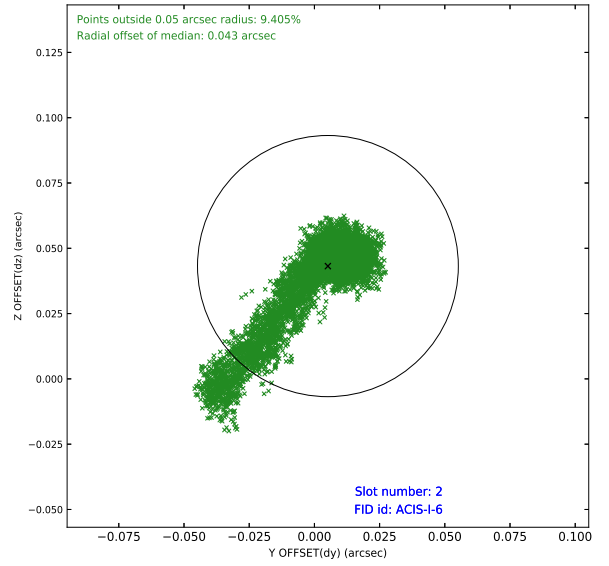
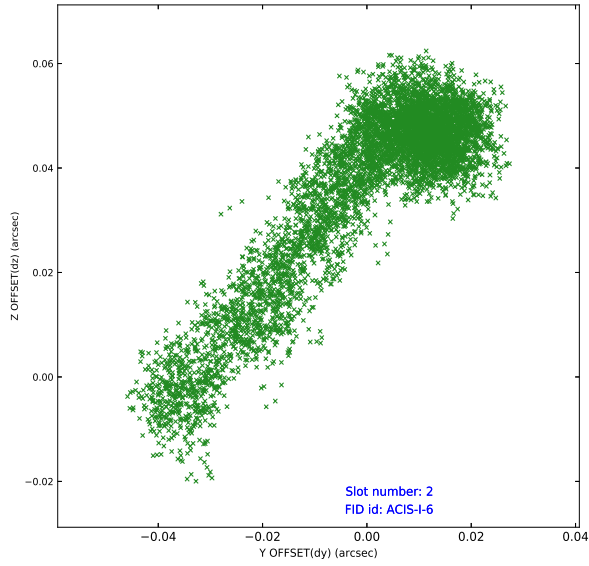
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.931

A.2 Comments