

V&V Reference Report

L2 ASCDS Version : 10.9

Observation 23352 - L2 Version 1
Chandra X-Ray Center

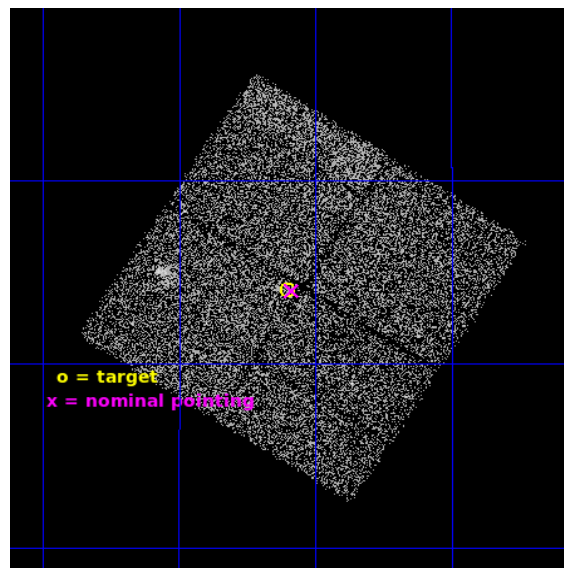
L2 Processing Date : Aug 8 2020

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1 Front

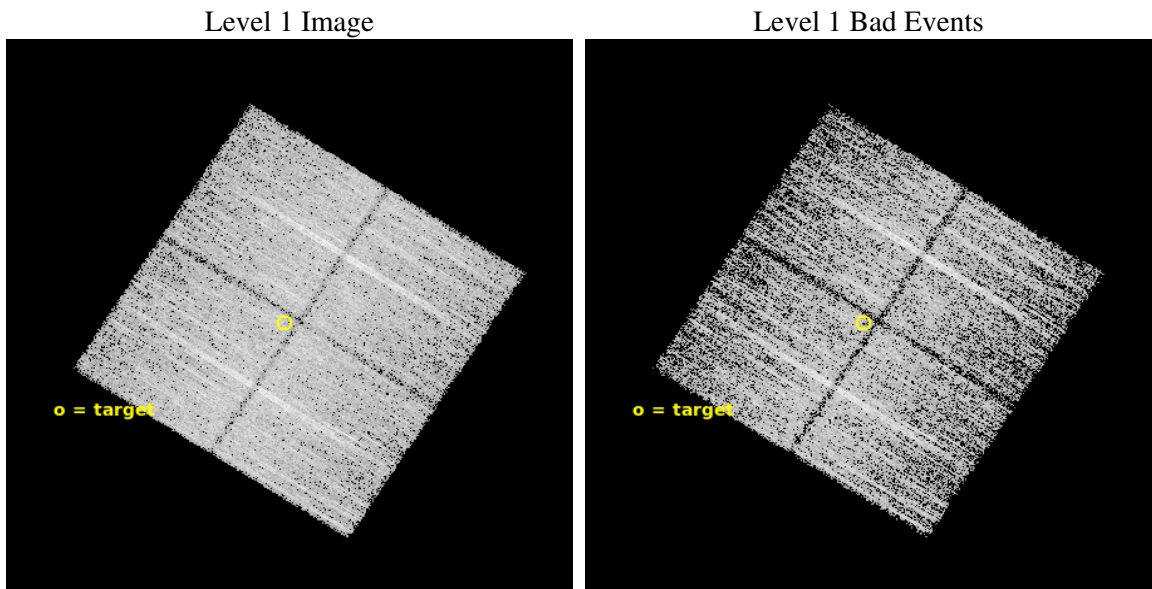
seq_num	201358	Sequence number
obs_id	23352	Observation id
title	Milky Way HEPCATs	Proposal title
observer	Leisa Townsley	Principal investigator
object	HEP G055.856-03.802	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	297.275635	Observer's specified target RA [deg]
dec_targ	18.400757	Observer's specified target Dec [deg]
ra_nom	297.27139515043	Nominal RA [deg]
dec_nom	18.399925941596	Nominal Dec [deg]
roll_nom	212.68899555081	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10071.50859201	Sum of GTIs [s]
livetime	9939.9169177182	Livetime [s]
ontime0	10077.667482495	Sum of GTIs [s]
ontime1	10077.708522439	Sum of GTIs [s]
ontime2	10077.749562502	Sum of GTIs [s]
ontime3	10071.50859201	Sum of GTIs [s]
l2events	31019	Number of level 2 events



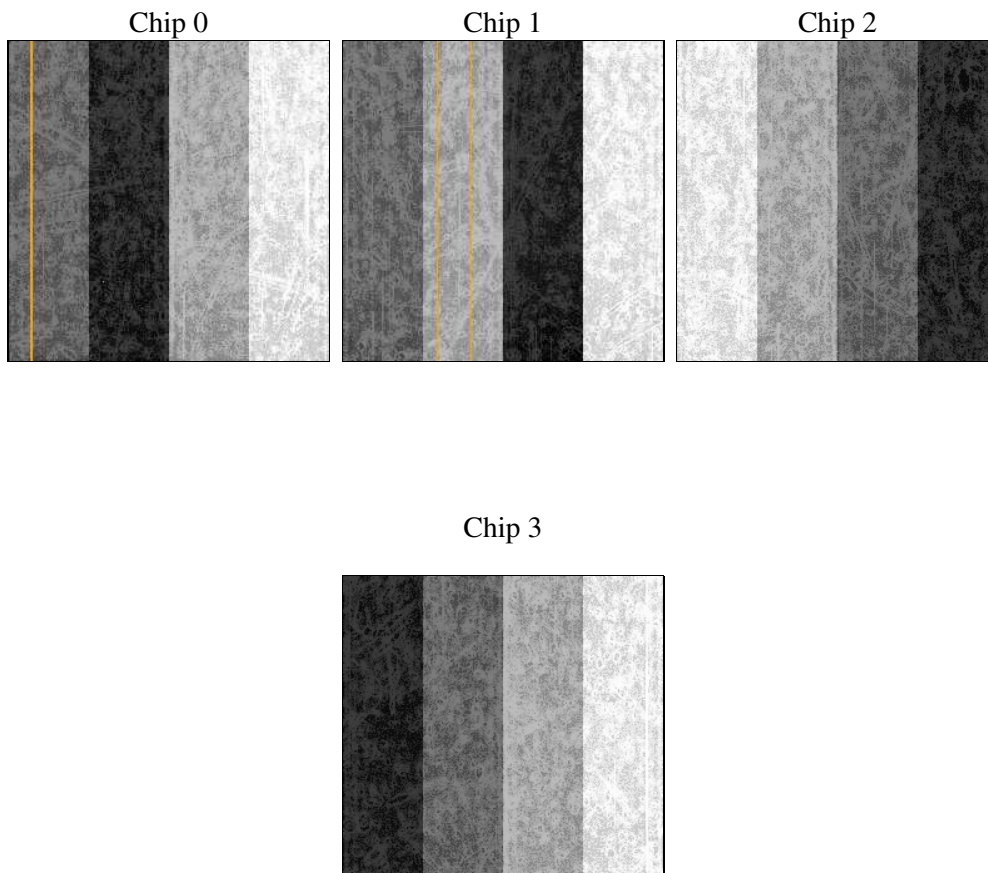
2 OBI

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	Processing system revision	ontime	10071.50859201	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	10077.667482495	Sum of GTIs [s]
date	2020-08-08T17:42:04	Date and time of file creation	ontime1	10077.708522439	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10077.749562502	Sum of GTIs [s]
			ontime3	10071.50859201	Sum of GTIs [s]
			l1events	300319	Number of level 1 events

2.1.4 Events

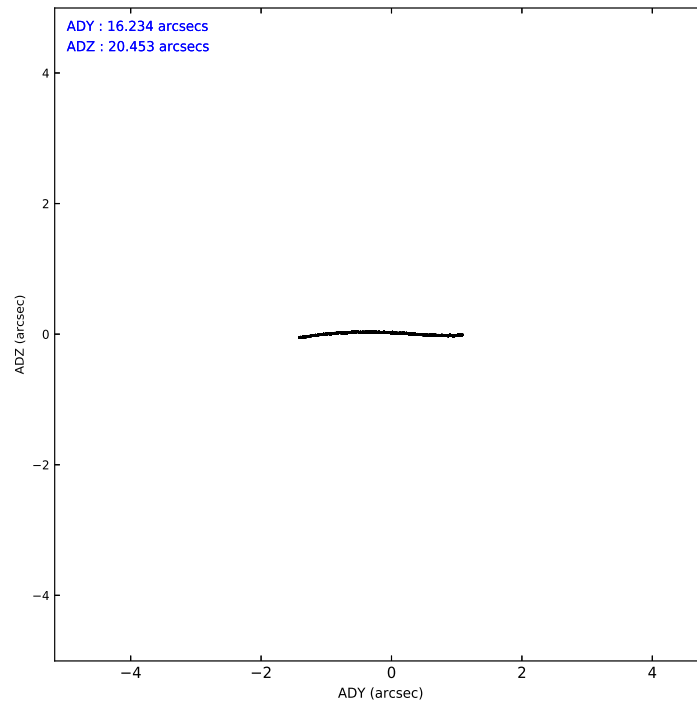
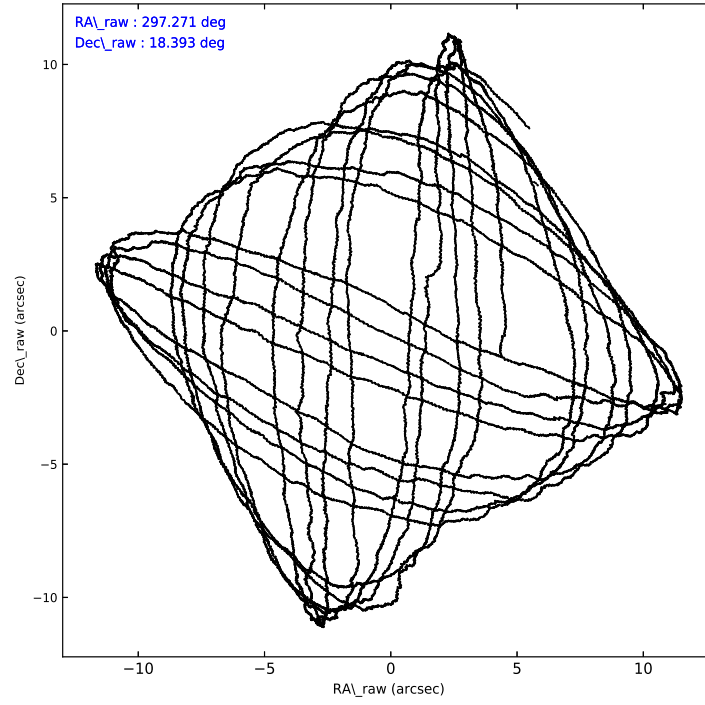
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	71895	73982	78888	75554
rejected events	62643	63718	70112	66699
rejected %	87%	86%	88%	88%

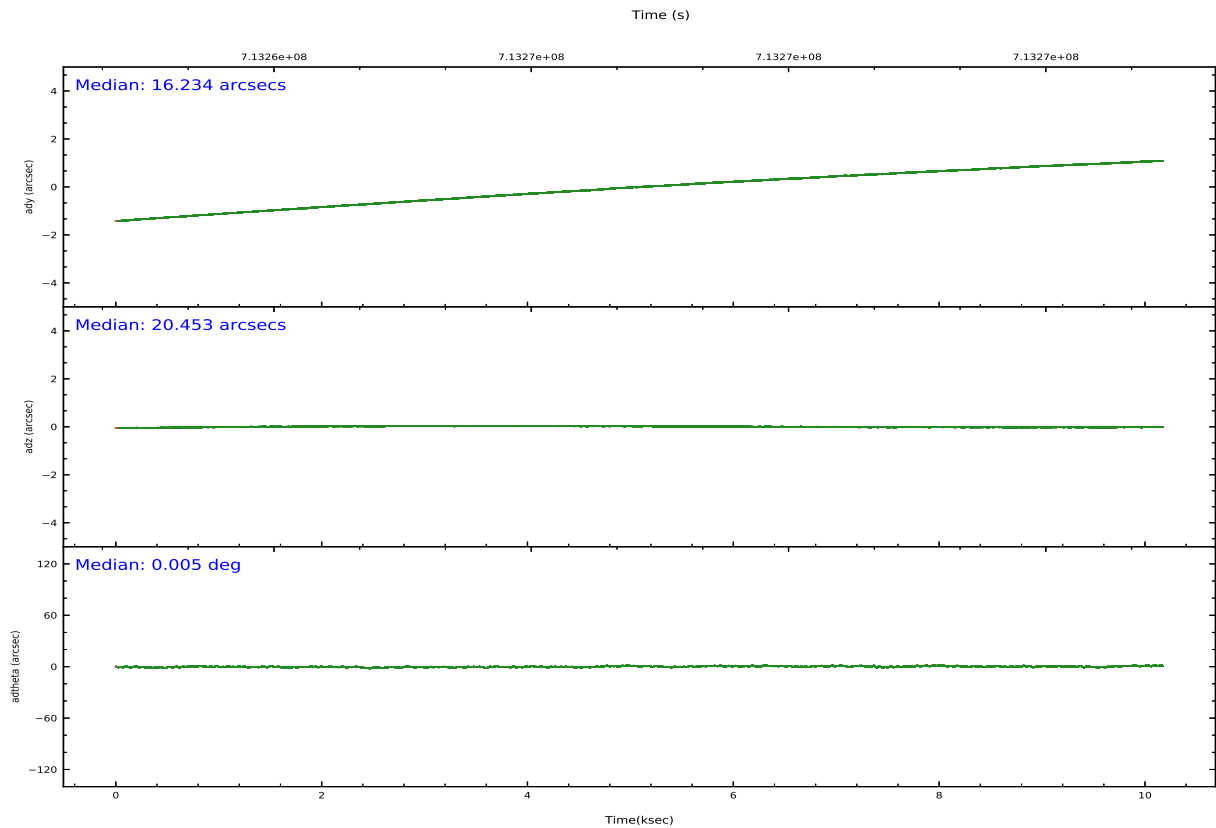
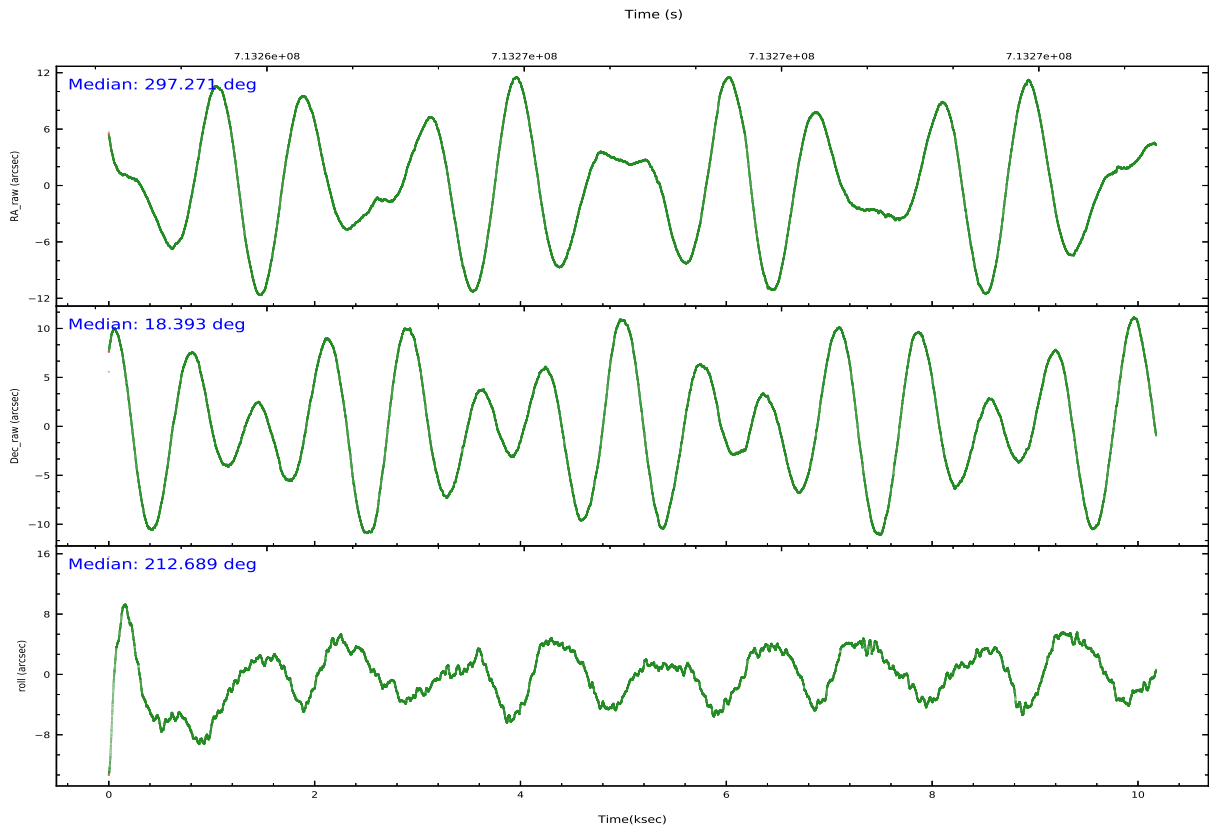
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3039	3505	2989	3369
	4%	4%	3%	4%
grade 1 events	49	66	54	44
	0%	0%	0%	0%
grade 2 events	2480	2622	2238	1932
	3%	3%	2%	2%
grade 3 events	905	938	860	930
	1%	1%	1%	1%
grade 4 events	884	913	878	864
	1%	1%	1%	1%
grade 5 events	3586	3733	3392	3887
	4%	5%	4%	5%
grade 6 events	1949	2294	1815	1767
	2%	3%	2%	2%
grade 7 events	59003	59911	66662	62761
	82%	80%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	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	297.283883	297.27139515043	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.416835	18.399925941596	Alternating exposures requested	N	N
[deg] Pointing Roll	212.485830	212.68899555081	[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)	713263639.184000	713262697.42172			
Observation start date	2020-08-08T08:46:10	2020-08-08T08:31:37			
[s] Observation end time (MET)	713273639.184000	713274247.63492			
Observation end date	2020-08-08T11:32:50	2020-08-08T11:44:07			
Read mode	TIMED	TIMED			

2.3 Aspect





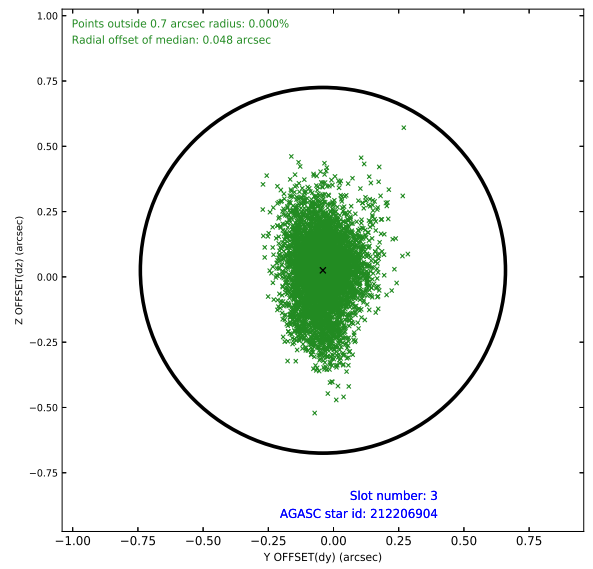
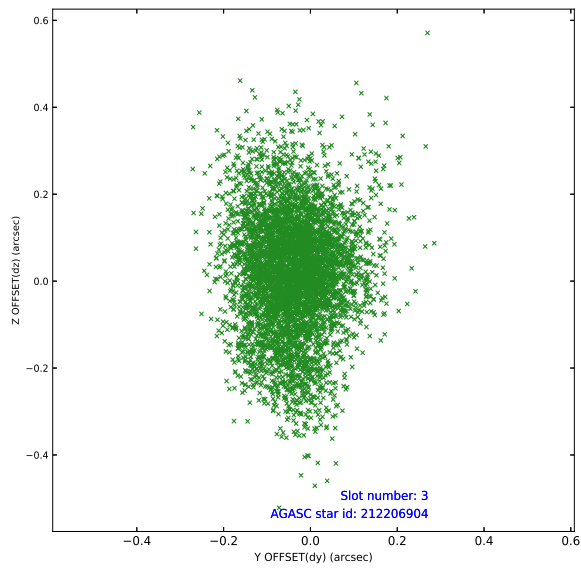
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.13	2483	1.000	0.276	-0.171	0.021	0.033	0.000000	0.000000	923.43	-844
1	FID		ACIS-I-5	7.11	2482	1.000	-0.338	0.240	0.018	0.027	0.000000	0.000000	-1824.79	1053
2	FID		ACIS-I-6	7.12	2483	1.000	-0.029	0.003	0.012	0.021	0.000000	0.000000	388.39	1698
3	GUIDE	used	212206904	8.72	4960	1.000	-0.041	0.025	0.156	0.287	297.191205	18.368804	360.46	-23
4	GUIDE	used	212221488	7.86	4962	1.000	0.129	-0.072	0.134	0.212	297.116910	18.655116	20.06	-1029
5	GUIDE	used	212222368	8.98	4961	1.000	-0.161	-0.128	0.184	0.294	297.318681	18.100696	511.23	1024
6	GUIDE	used	212731360	7.47	4965	1.000	0.083	-0.105	0.151	0.245	296.679791	18.816839	961.88	-2322
7	GUIDE	used	212736784	8.25	4963	1.000	-0.019	0.282	0.115	0.187	297.360734	18.856754	-1070.67	-1194

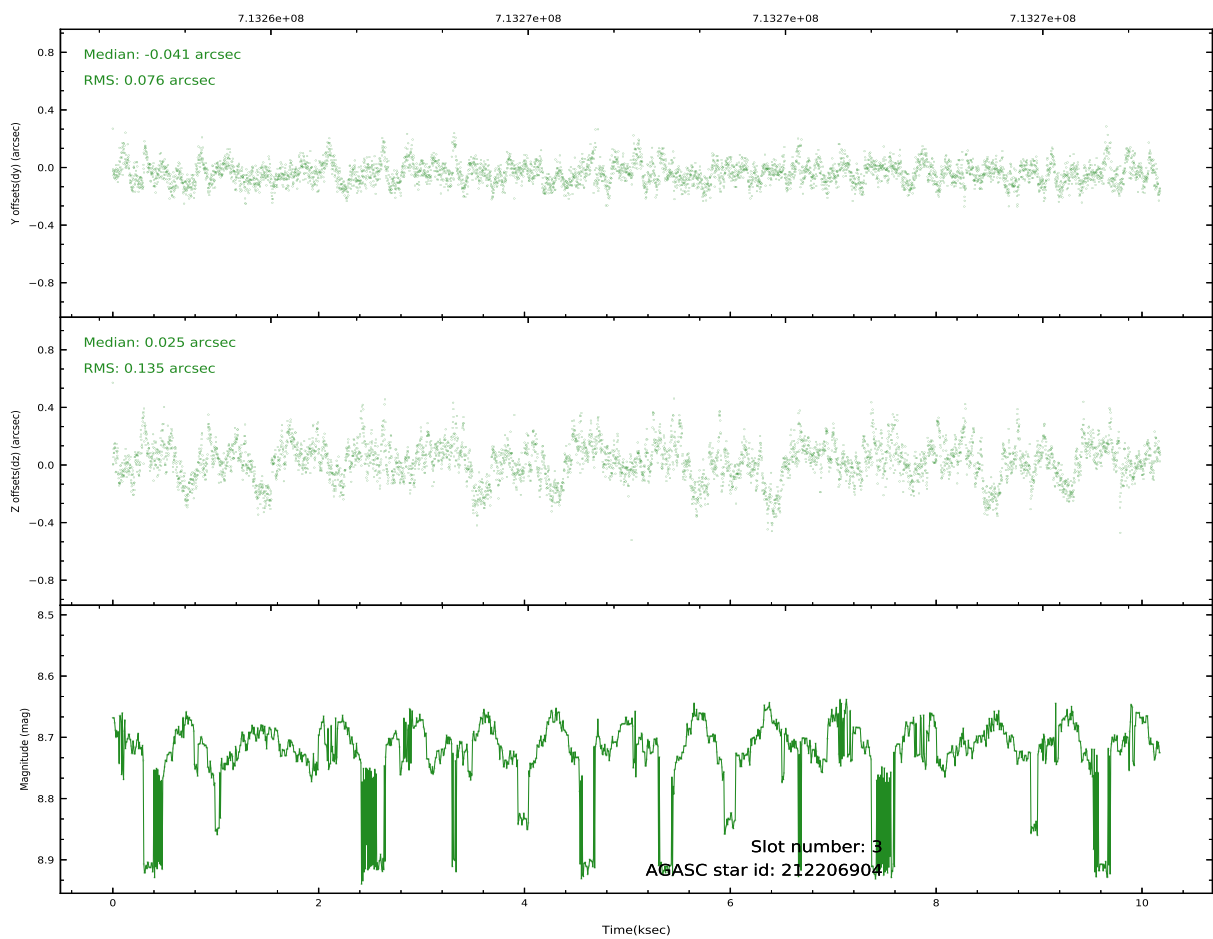
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2.4 Star Slots

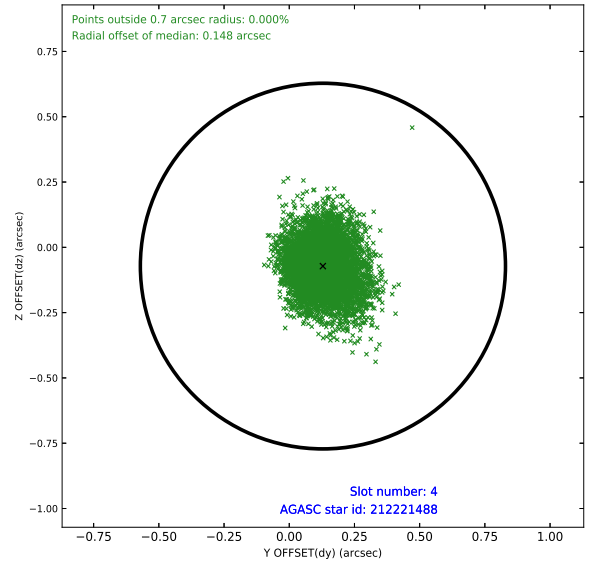
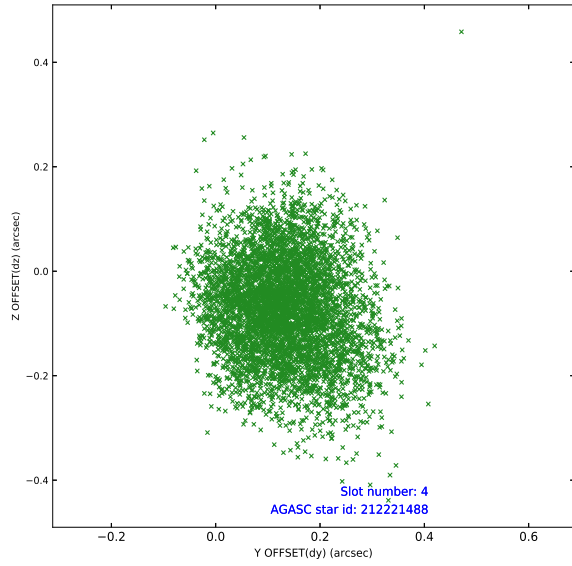
2.4.1 Slot 3



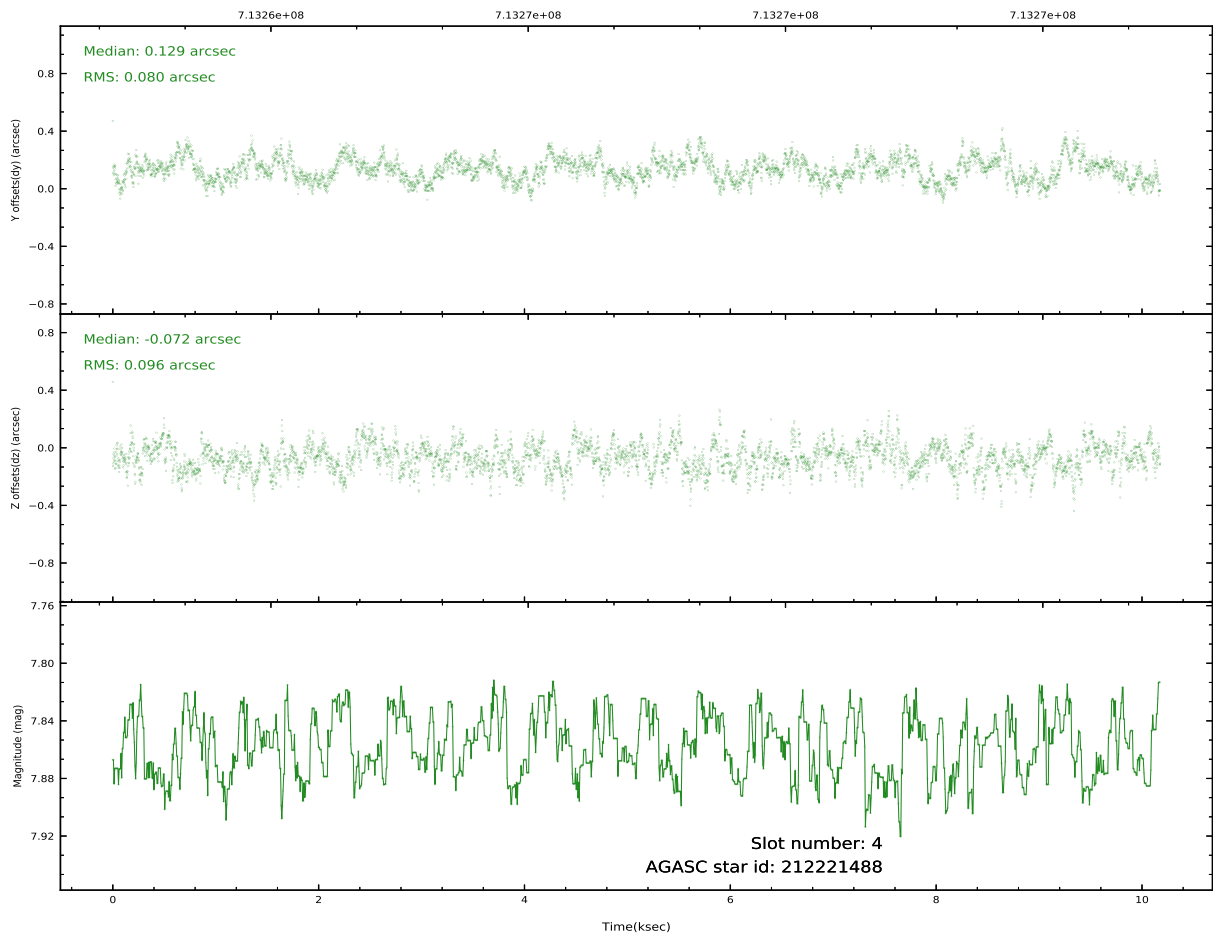
Time (s)



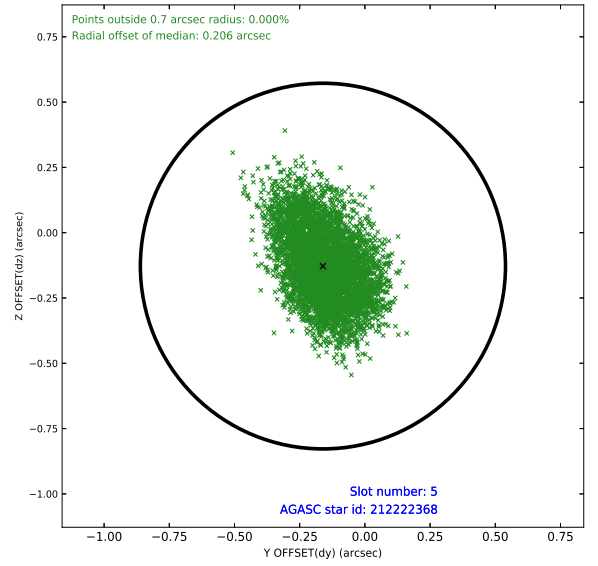
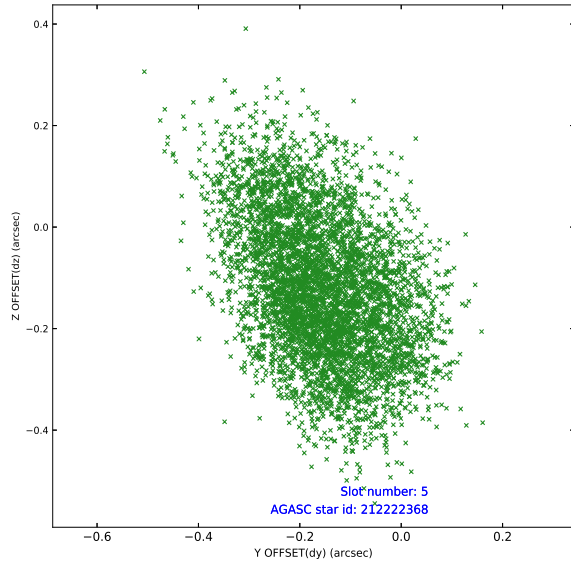
2.4.2 Slot 4



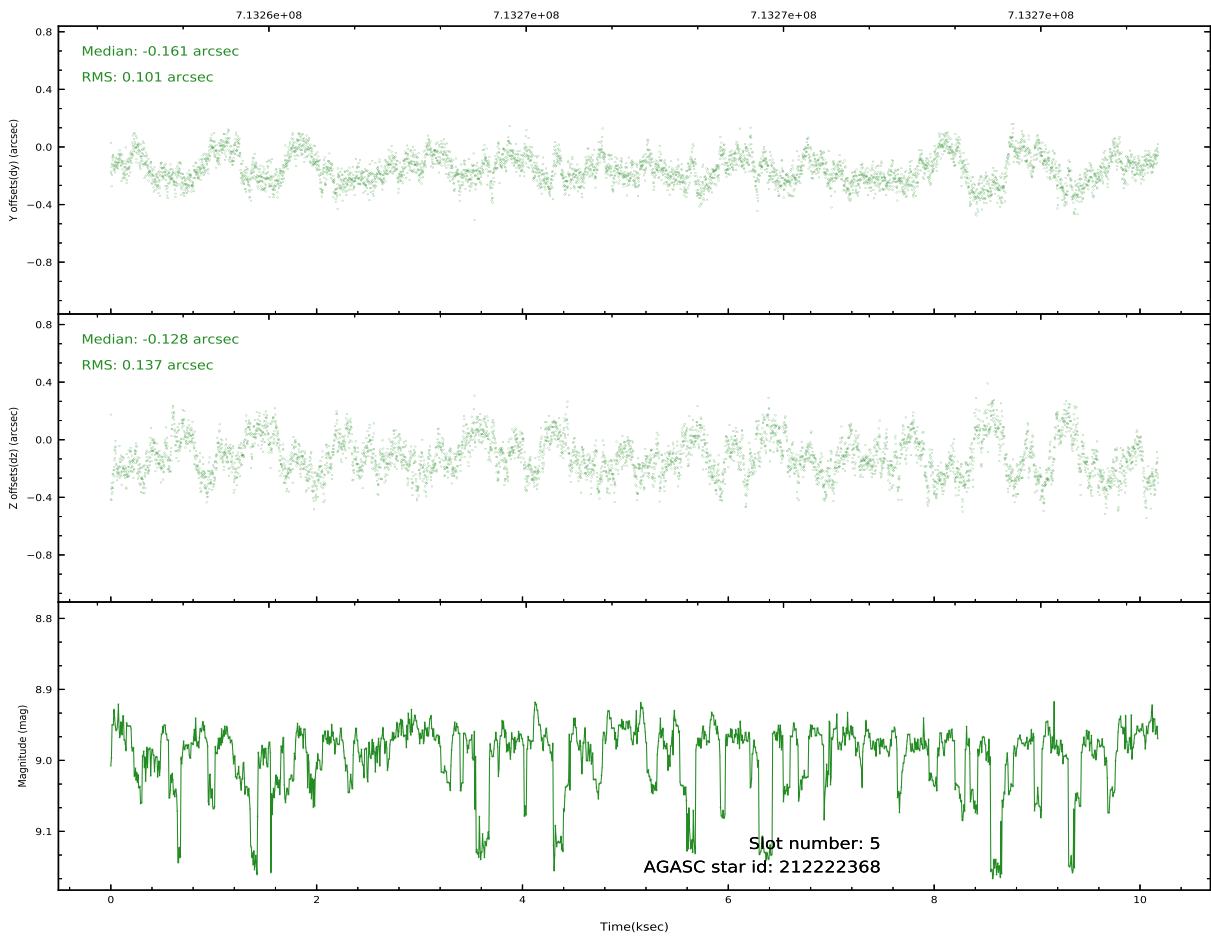
Time (s)



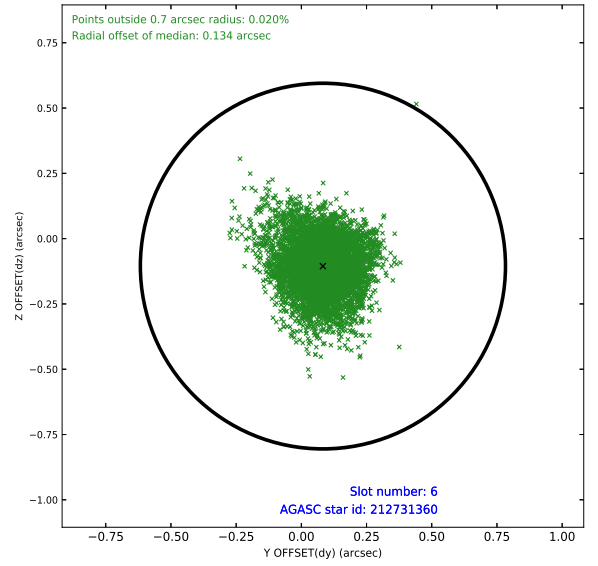
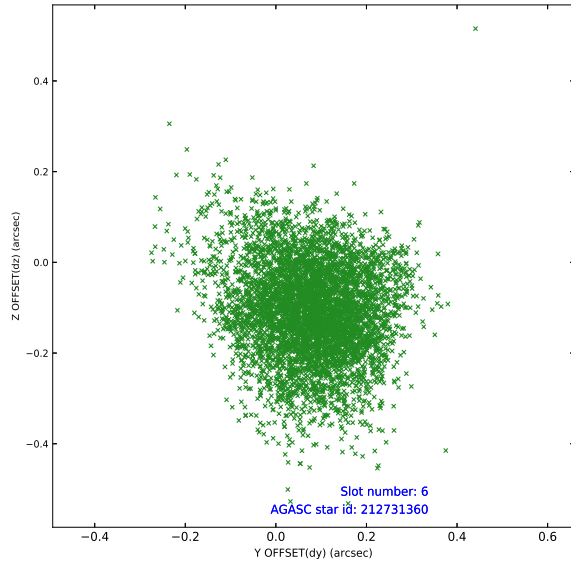
2.4.3 Slot 5



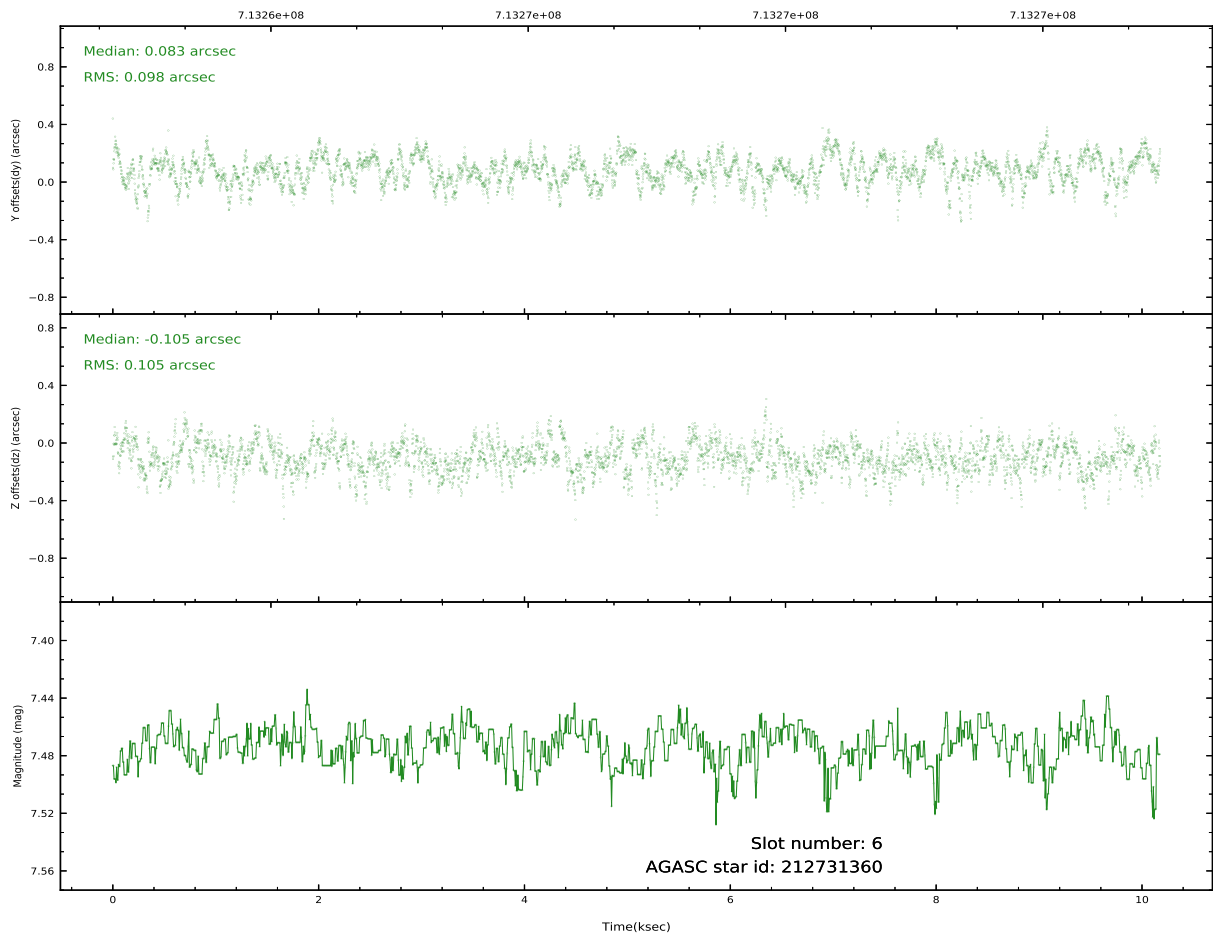
Time (s)



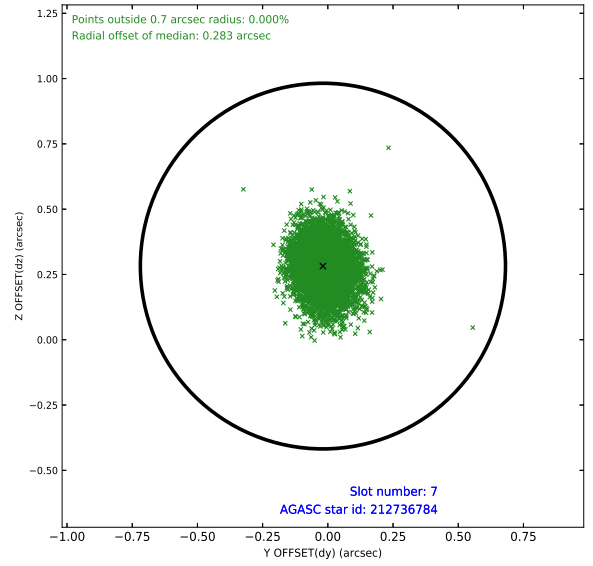
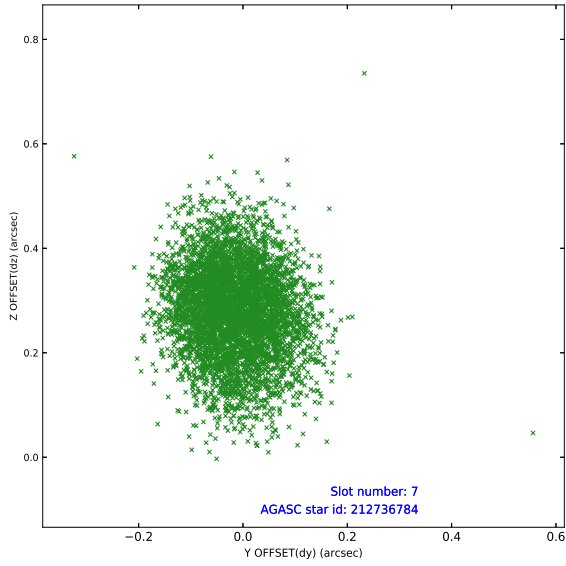
2.4.4 Slot 6



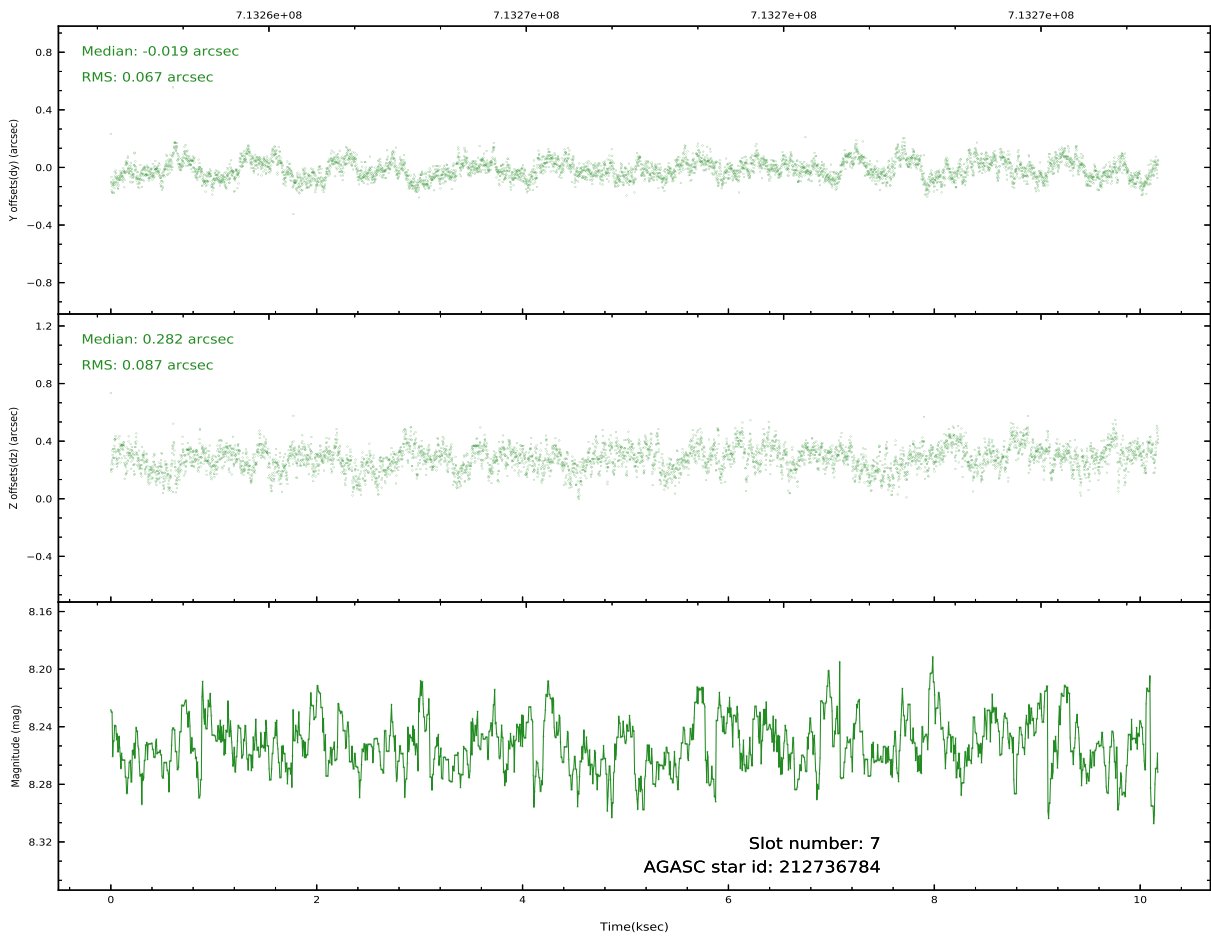
Time (s)



2.4.5 Slot 7

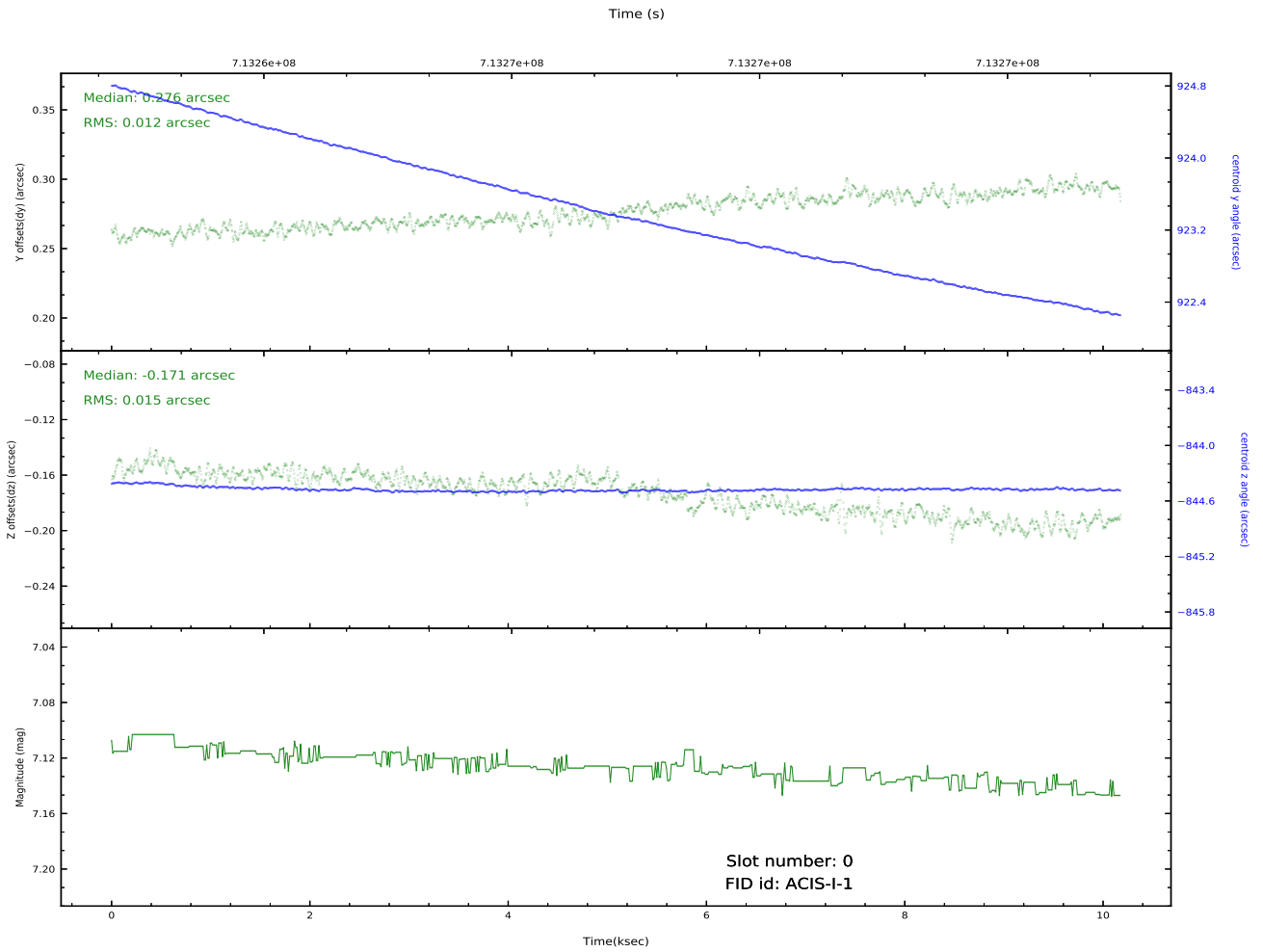
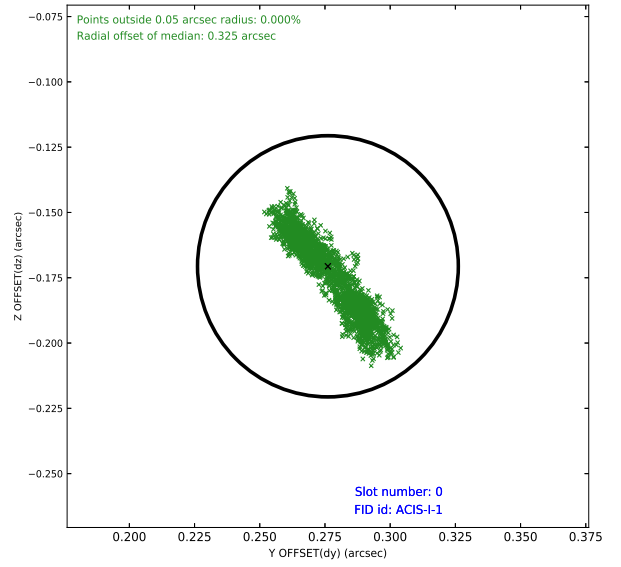
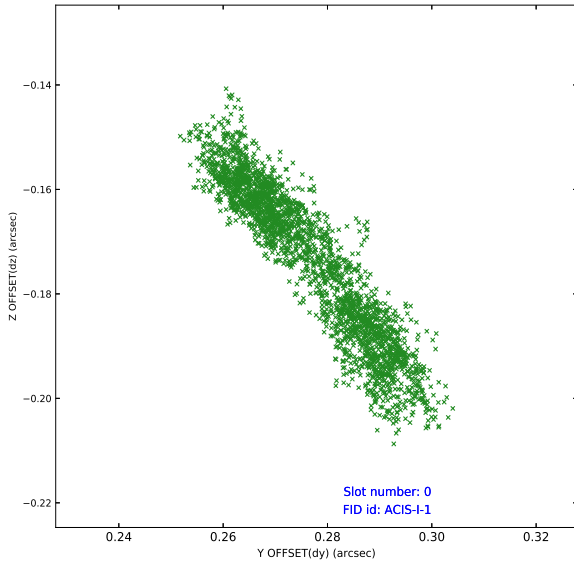


Time (s)

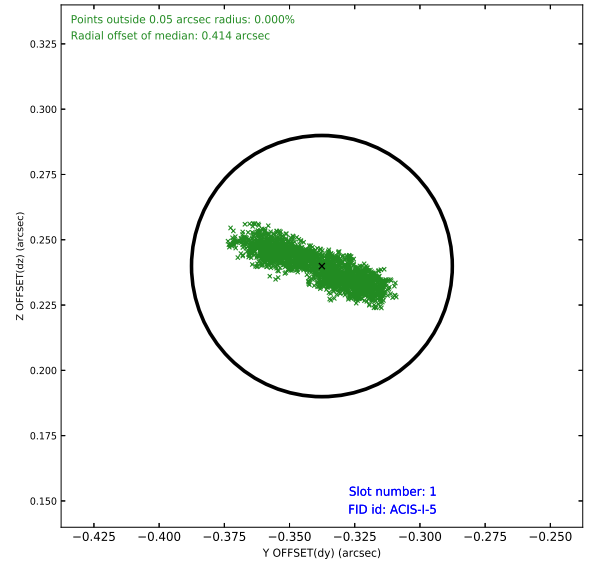
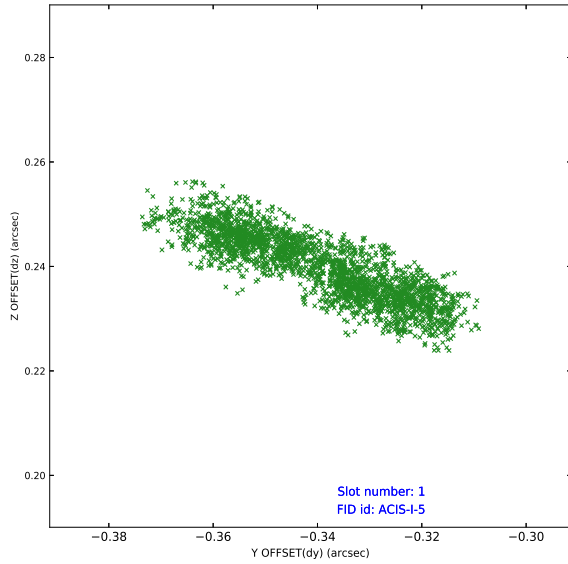


2.5 FID Slots

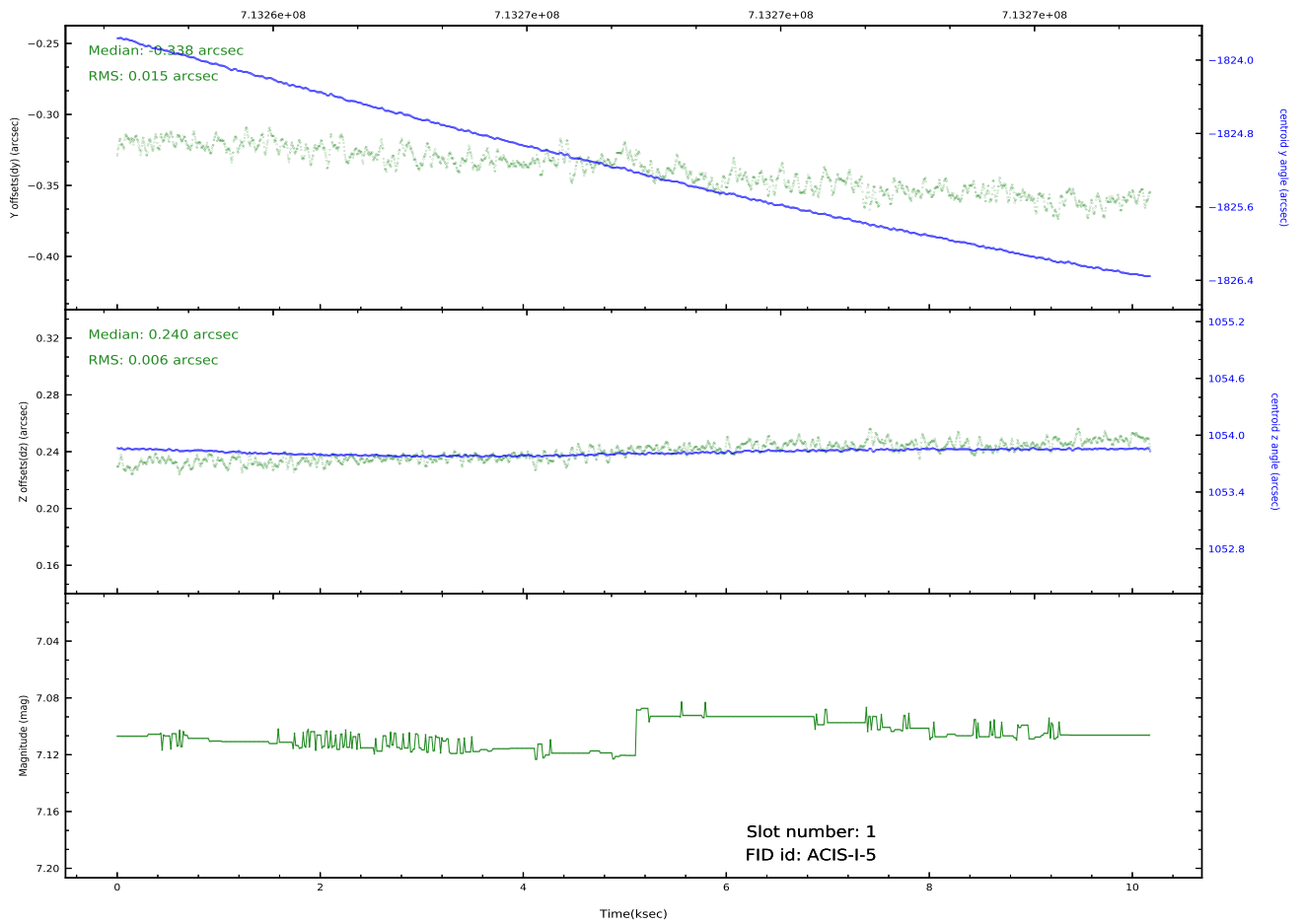
2.5.1 Slot 0



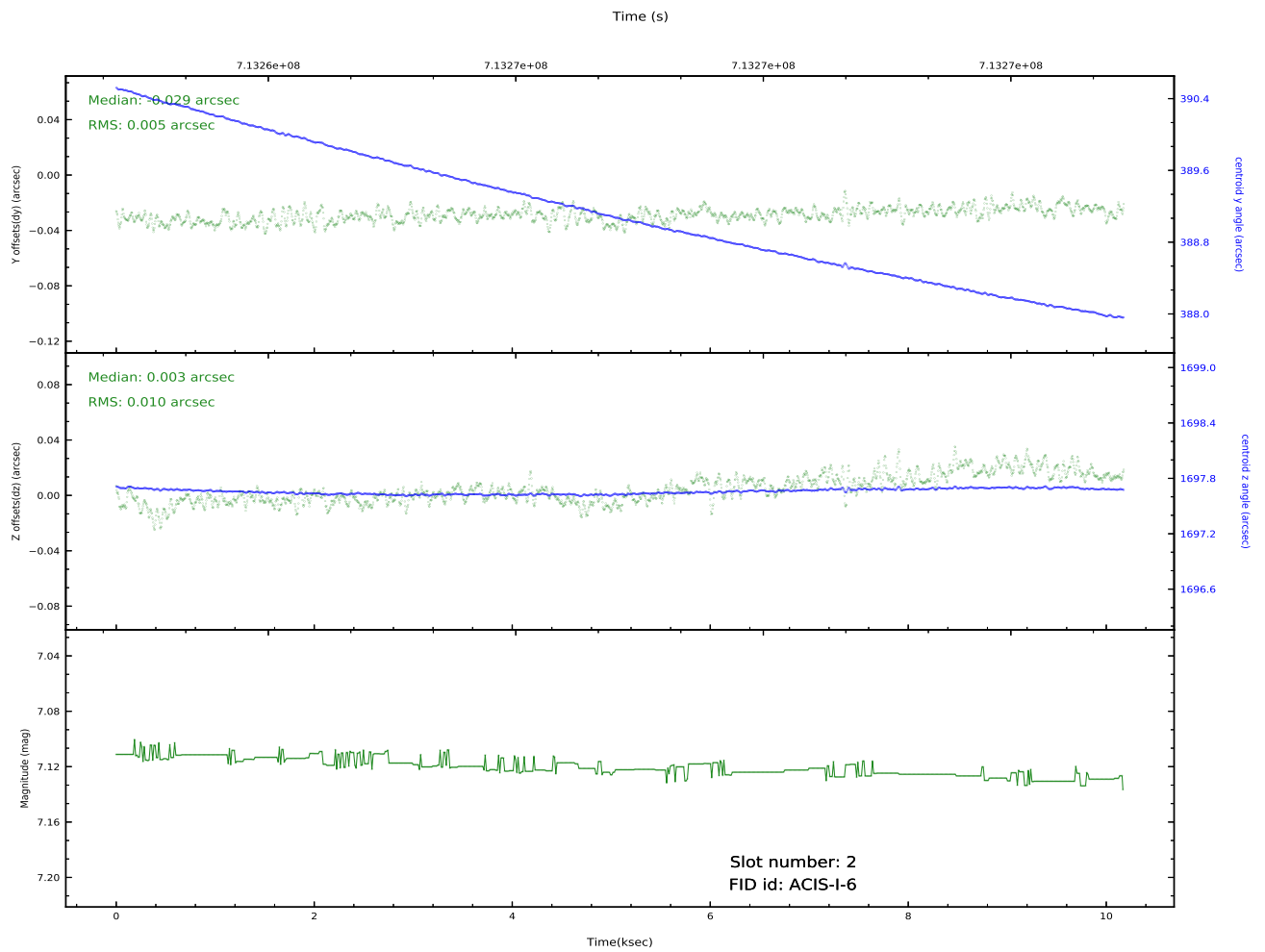
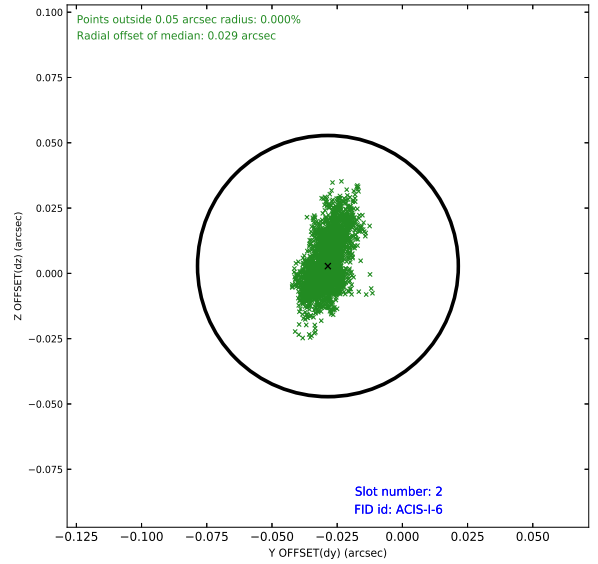
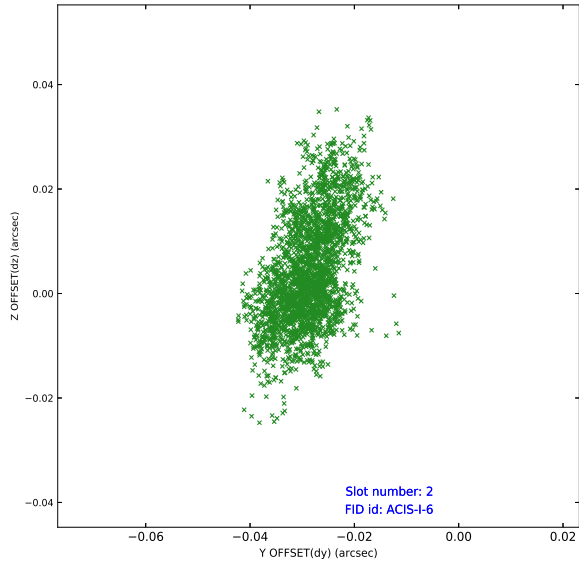
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.08.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.07150859201

A.2 Comments