

V&V Reference Report

L2 ASCDS Version : 10.9

Observation 23351 - L2 Version 1
Chandra X-Ray Center

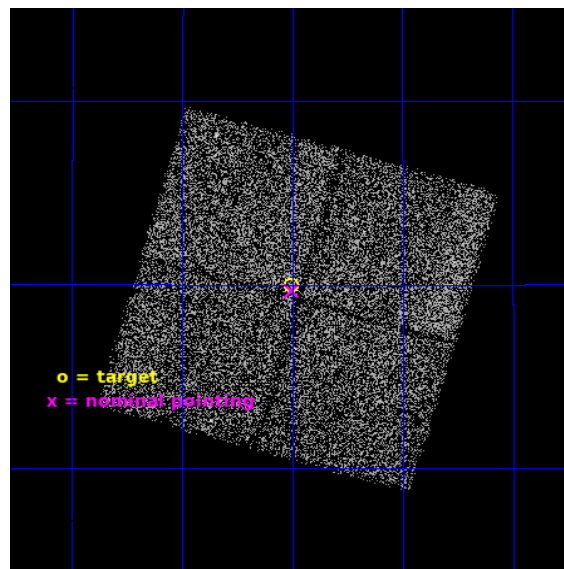
L2 Processing Date : Aug 10 2020

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1 Front

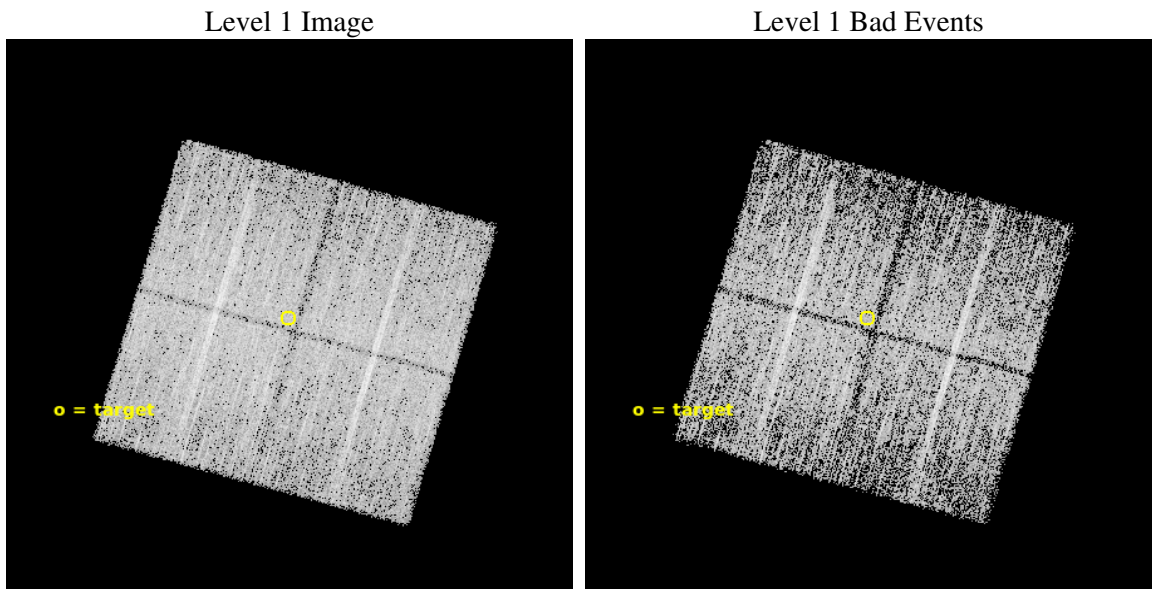
seq_num	601498	Sequence number
obs_id	23351	Observation id
title	ULX Science with Nearby Galaxies	Proposal title
observer	Dominic Walton	Principal investigator
object	UGC 07678	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.000717	Observer's specified target RA [deg]
dec_targ	39.832668	Observer's specified target Dec [deg]
ra_nom	188.00057687442	Nominal RA [deg]
dec_nom	39.828038936449	Nominal Dec [deg]
roll_nom	286.02347160073	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10074.959117293	Sum of GTIs [s]
livetime	9943.3223593489	Livetime [s]
ontime0	10074.95910728	Sum of GTIs [s]
ontime1	10078.100077629	Sum of GTIs [s]
ontime2	10074.959107399	Sum of GTIs [s]
ontime3	10074.959117293	Sum of GTIs [s]
l2events	31219	Number of level 2 events



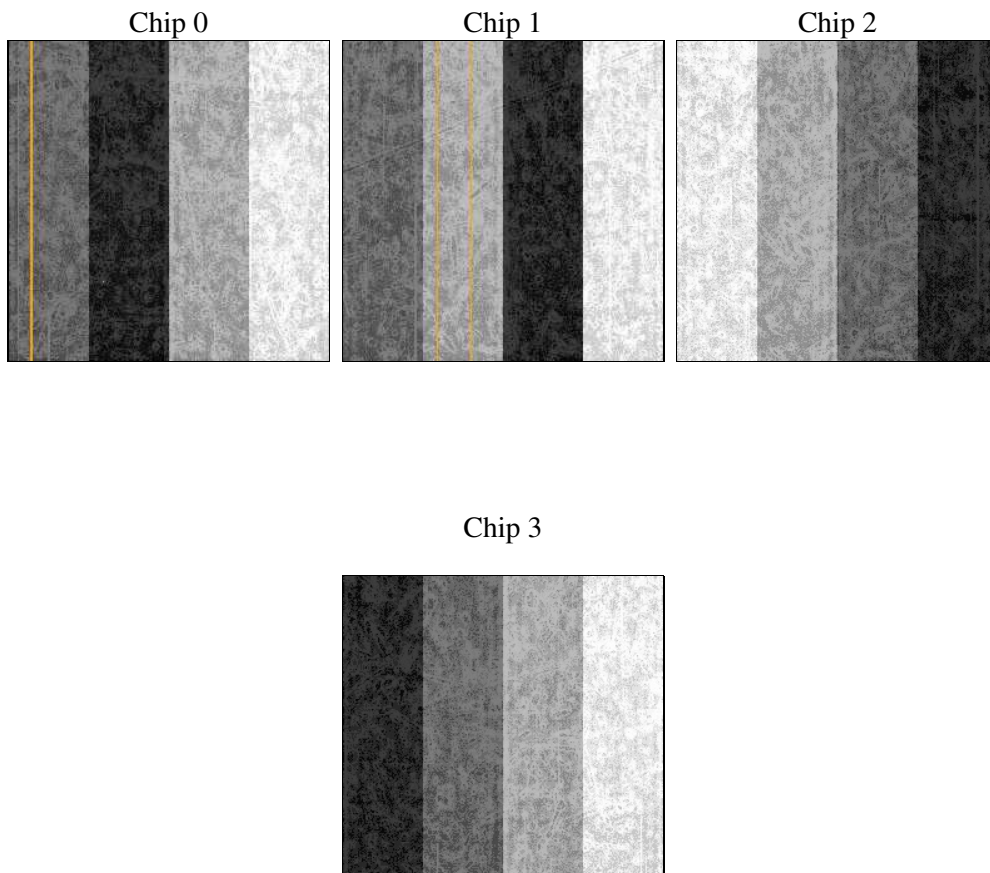
2 OBI

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	10074.959117293	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	10074.95910728	Sum of GTIs [s]
date	2020-08-10T04:25:04	Date and time of file creation	ontime1	10078.100077629	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10074.959107399	Sum of GTIs [s]
			ontime3	10074.959117293	Sum of GTIs [s]
			l1events	302555	Number of level 1 events

2.1.4 Events

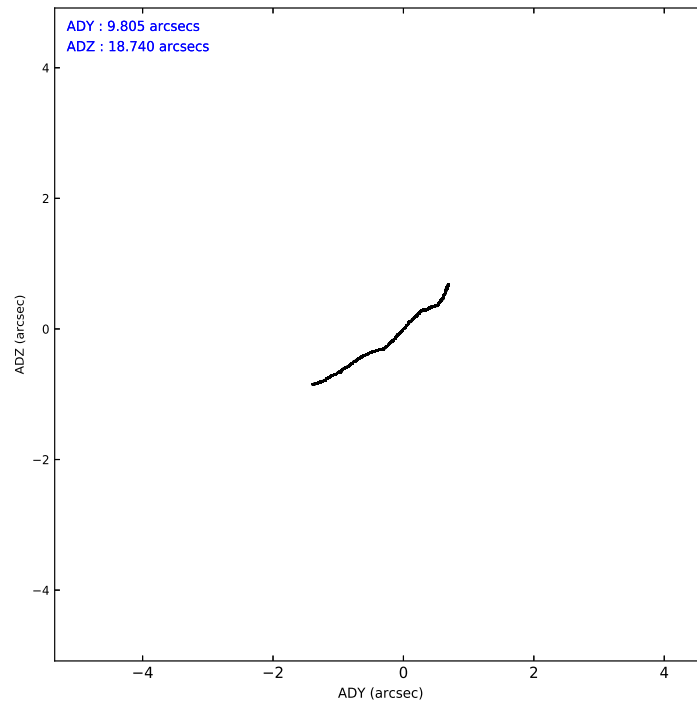
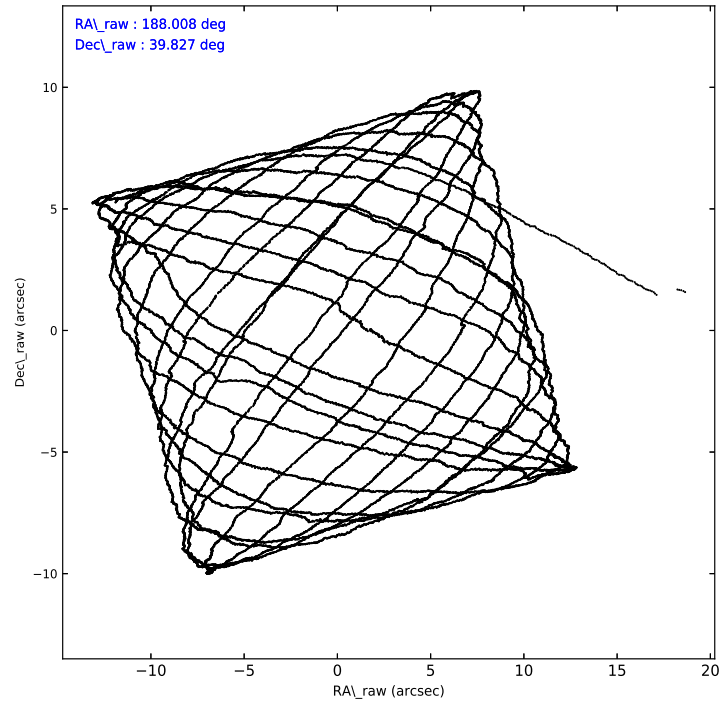
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	70779	73702	81899	76175
rejected events	61637	63330	72830	67182
rejected %	87%	85%	88%	88%

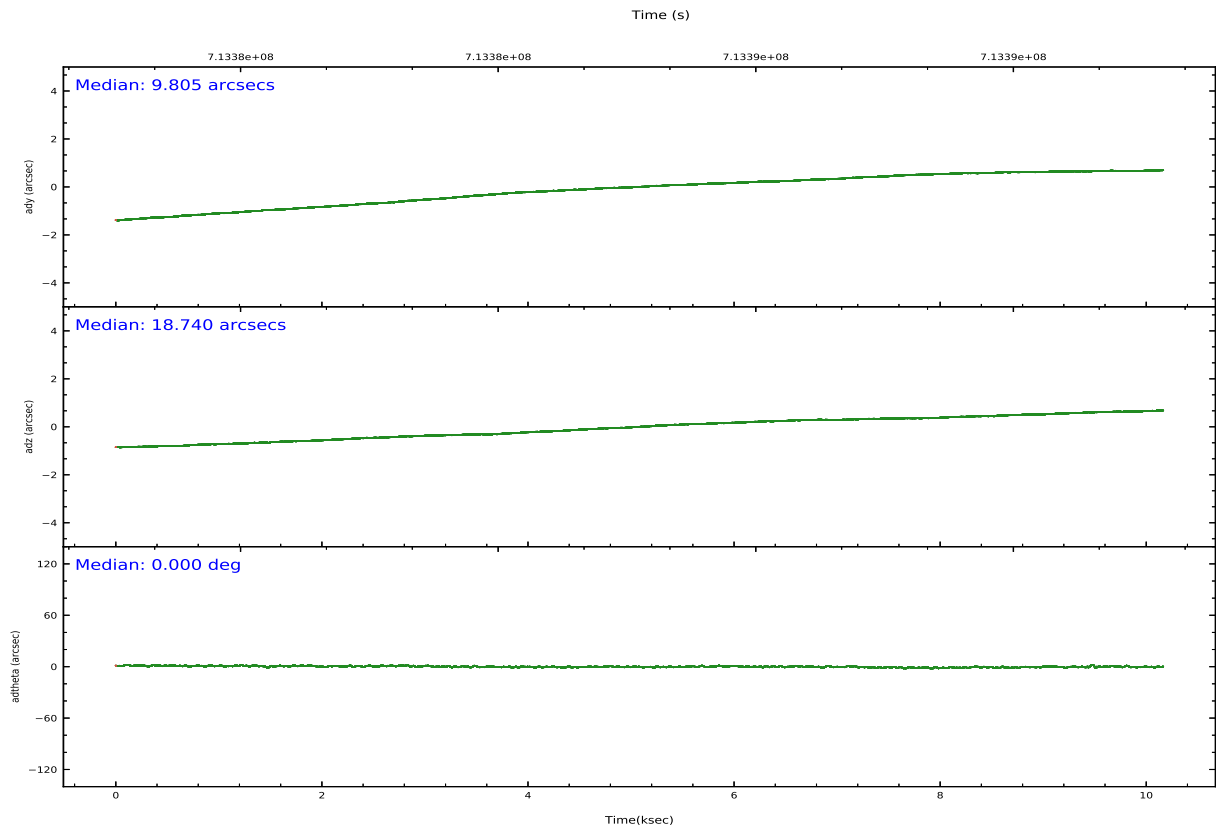
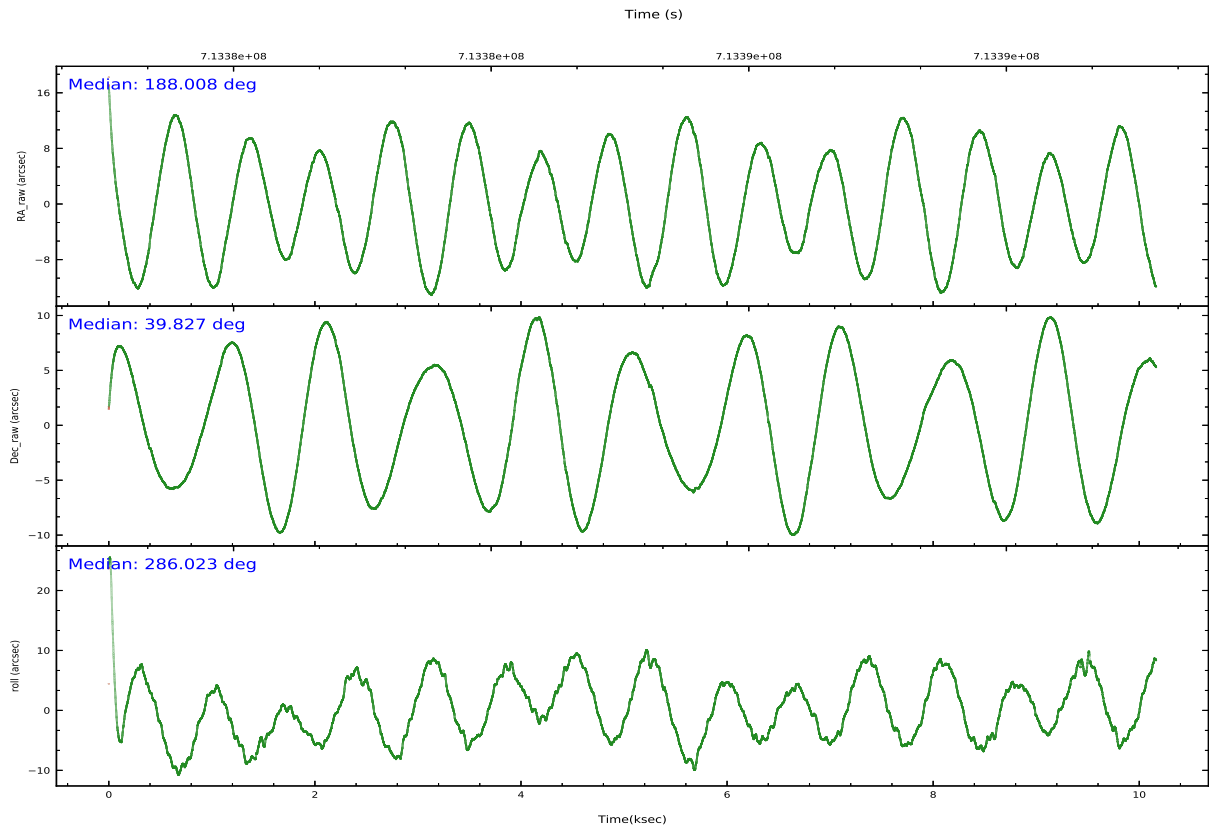
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3149	3522	3146	3311
	4%	4%	3%	4%
grade 1 events	43	42	53	57
	0%	0%	0%	0%
grade 2 events	2330	2678	2336	2017
	3%	3%	2%	2%
grade 3 events	943	957	905	888
	1%	1%	1%	1%
grade 4 events	812	1014	910	926
	1%	1%	1%	1%
grade 5 events	3657	3647	3483	4064
	5%	4%	4%	5%
grade 6 events	1910	2206	1779	1857
	2%	2%	2%	2%
grade 7 events	57935	59636	69287	63055
	81%	80%	84%	82%

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	187.982371	188.00057687442	Subarray requested	NONE	NONE
[deg] Pointing Dec	39.845834	39.828038936449	Alternating exposures requested	N	N
[deg] Pointing Roll	285.836786	286.02347160073	[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)	713381454.184000	713380544.24142			
Observation start date	2020-08-09T17:29:45	2020-08-09T17:15:44			
[s] Observation end time (MET)	713391454.184000	713392162.61713			
Observation end date	2020-08-09T20:16:25	2020-08-09T20:29:22			
Read mode	TIMED	TIMED			

2.3 Aspect





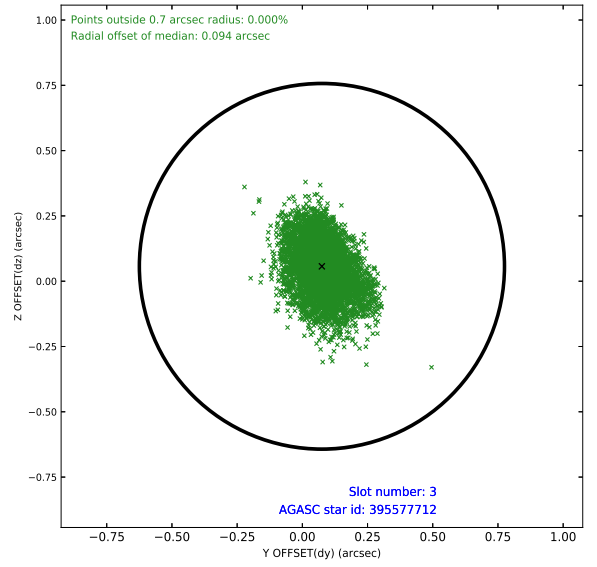
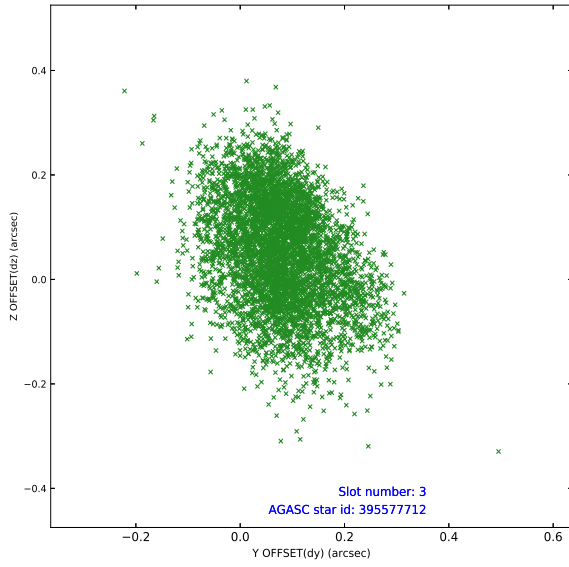
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-3	7.34	2480	1.000	0.122	0.132	0.013	0.034	0.000000	0.000000	47.41	-975
1	FID		ACIS-I-5	7.12	2480	1.000	-0.268	0.124	0.008	0.012	0.000000	0.000000	-1818.48	1054
2	FID		ACIS-I-6	7.11	2480	1.000	0.054	-0.187	0.011	0.028	0.000000	0.000000	395.02	1699
3	GUIDE	used	395577712	6.67	4959	1.000	0.075	0.057	0.136	0.218	187.768260	39.582048	751.61	-829
4	GUIDE	used	395580928	8.67	4958	1.000	-0.196	0.190	0.142	0.234	188.647914	40.539366	-1911.28	2434
5	GUIDE	used	395583808	7.81	4957	1.000	0.121	-0.089	0.115	0.206	187.552145	39.247091	1745.51	-1743
6	GUIDE	used	395585712	7.74	4958	1.000	-0.073	0.084	0.122	0.200	188.947205	39.683690	1278.08	2415
7	GUIDE	used	395588648	8.60	4954	1.000	0.064	-0.236	0.106	0.193	188.398004	39.289900	2240.38	568

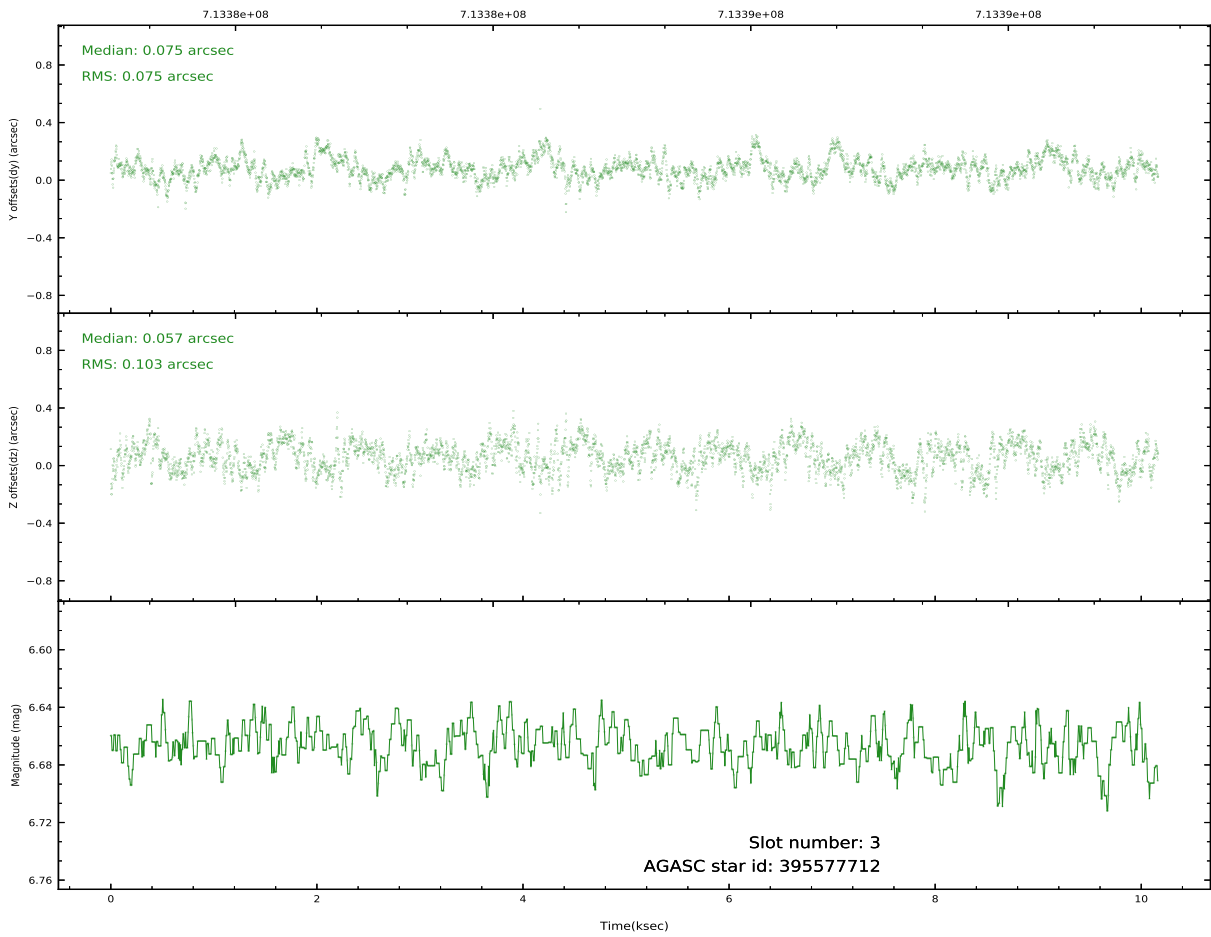
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2.4 Star Slots

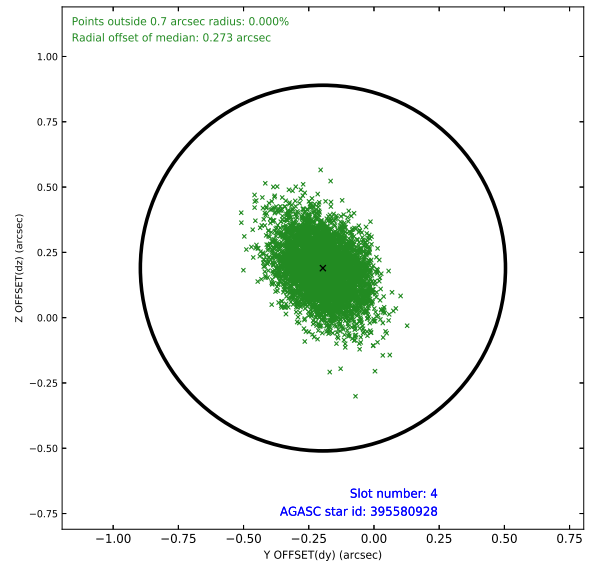
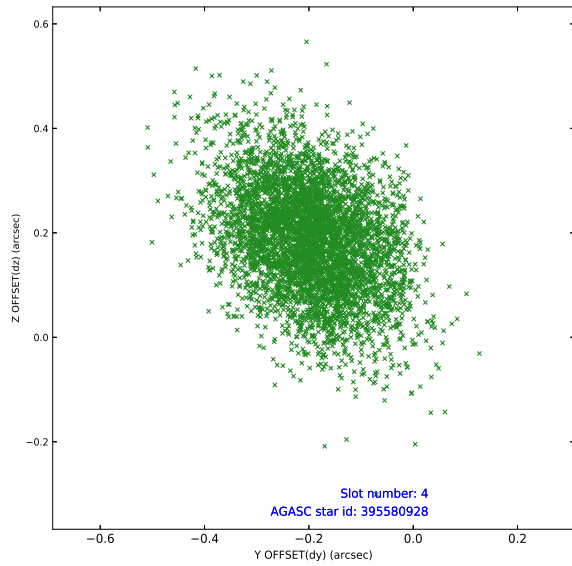
2.4.1 Slot 3



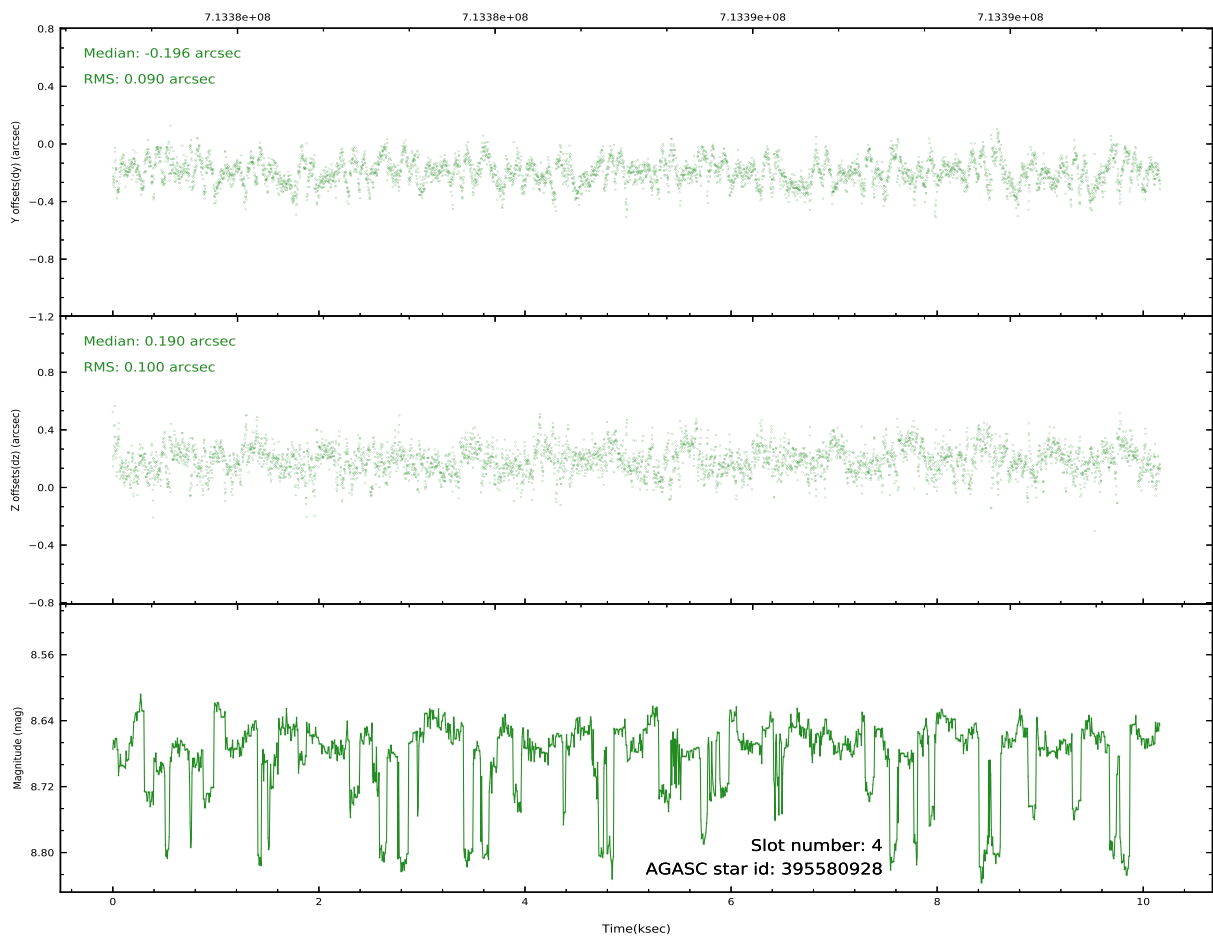
Time (s)



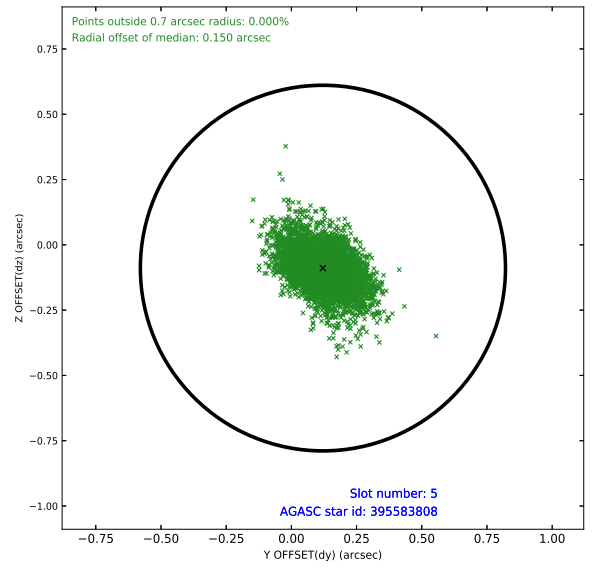
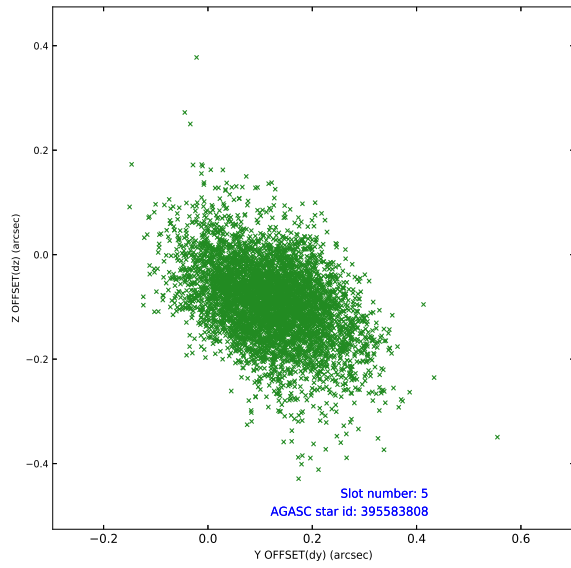
2.4.2 Slot 4



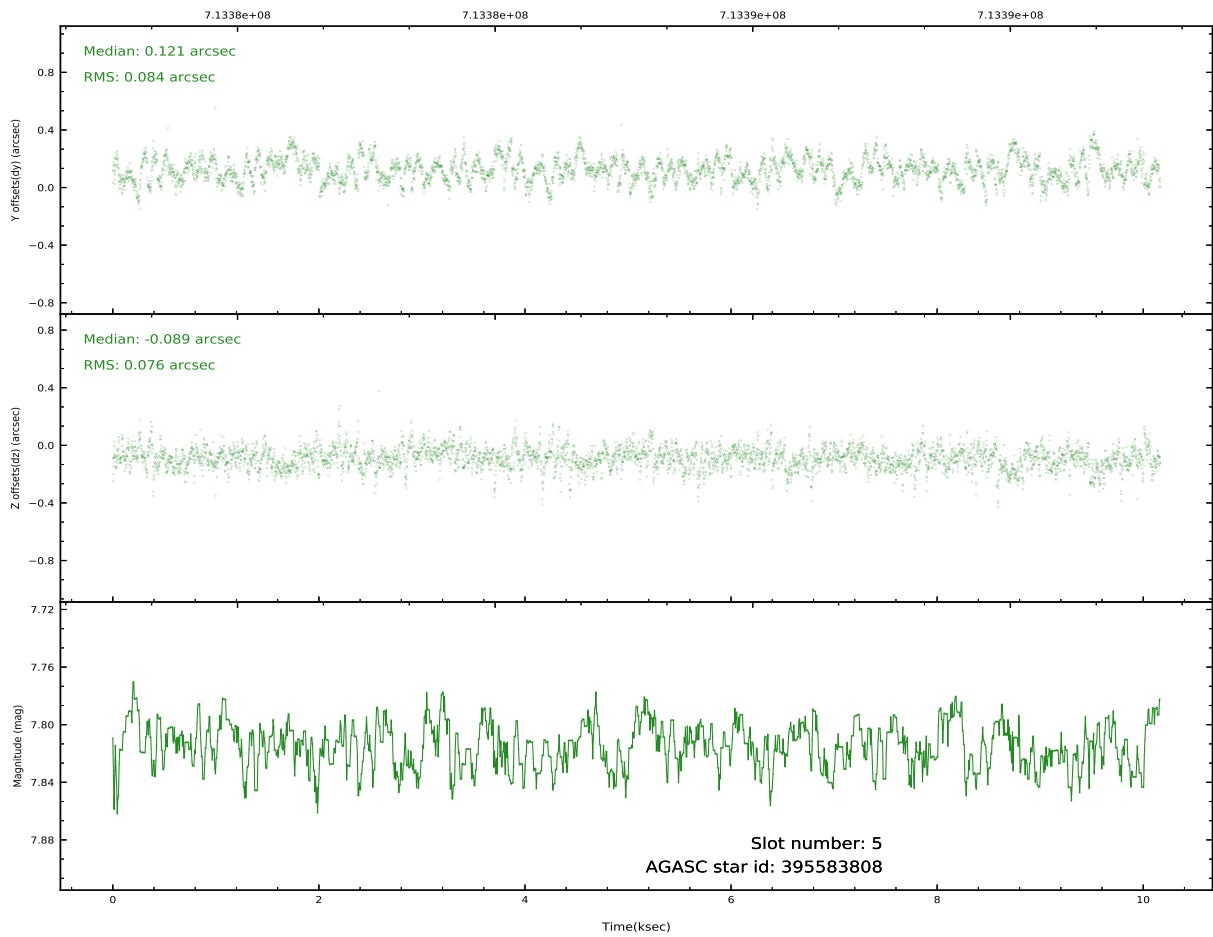
Time (s)



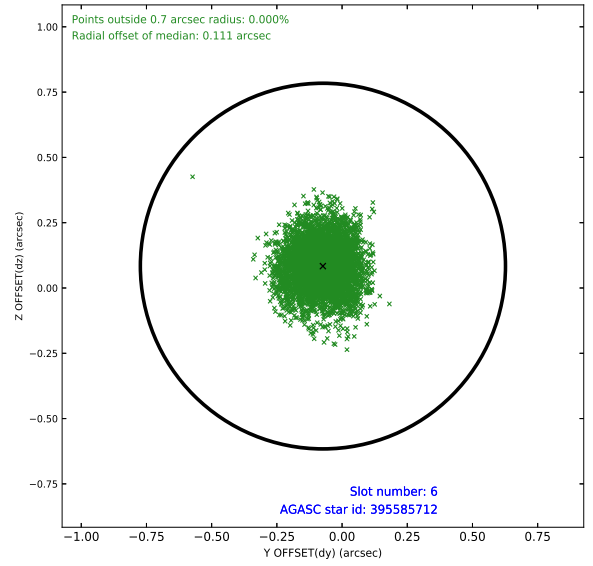
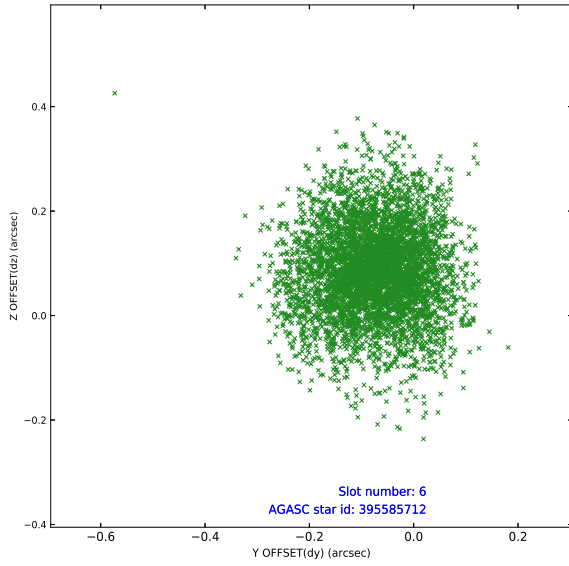
2.4.3 Slot 5



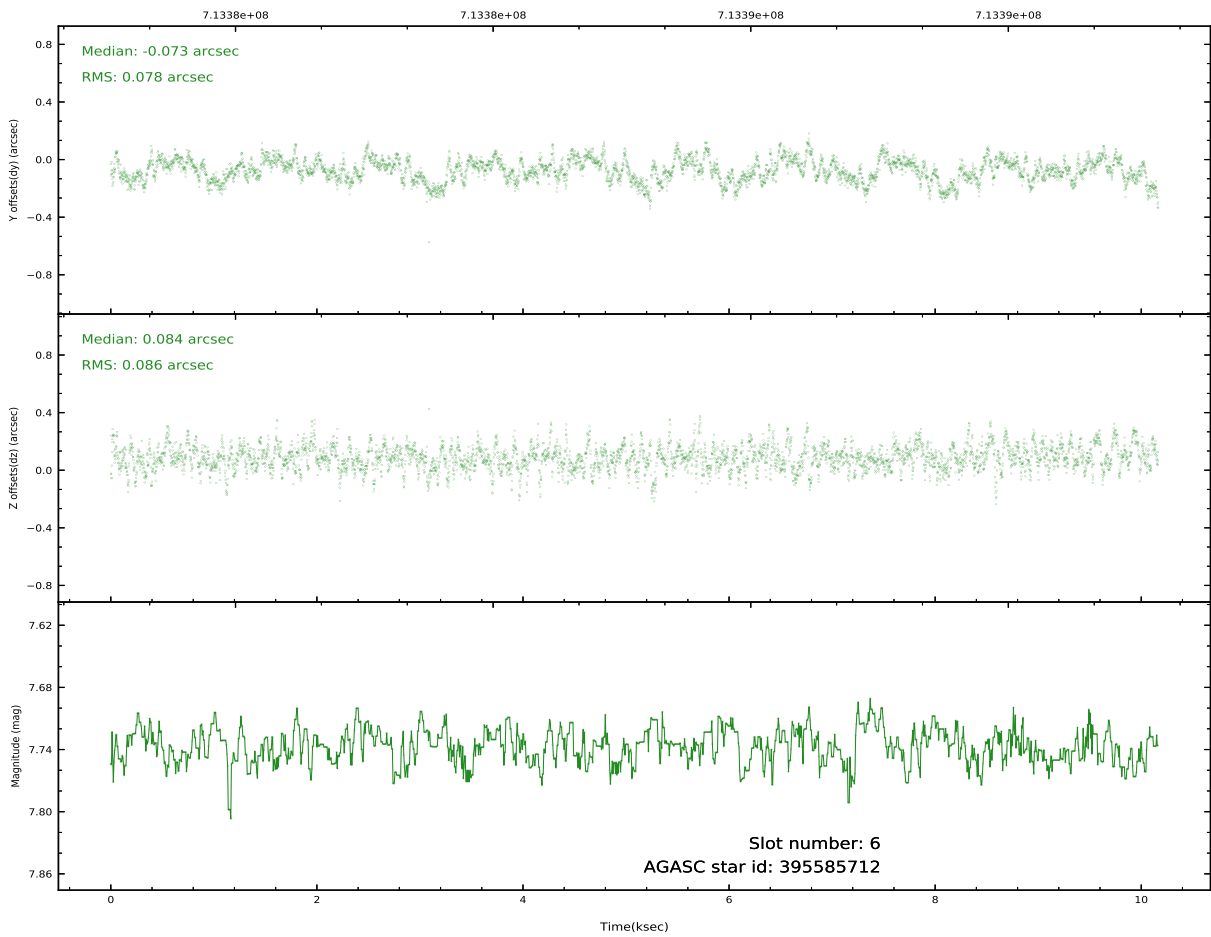
Time (s)



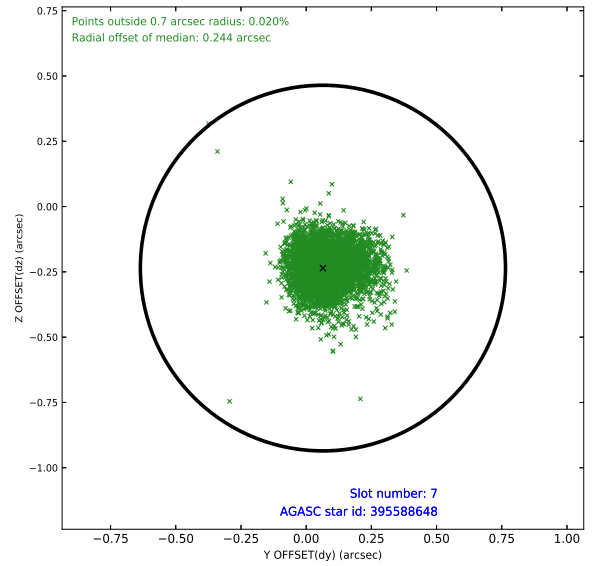
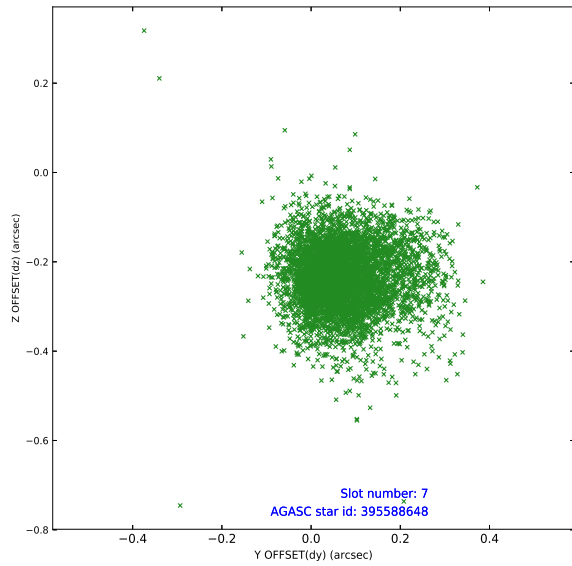
2.4.4 Slot 6



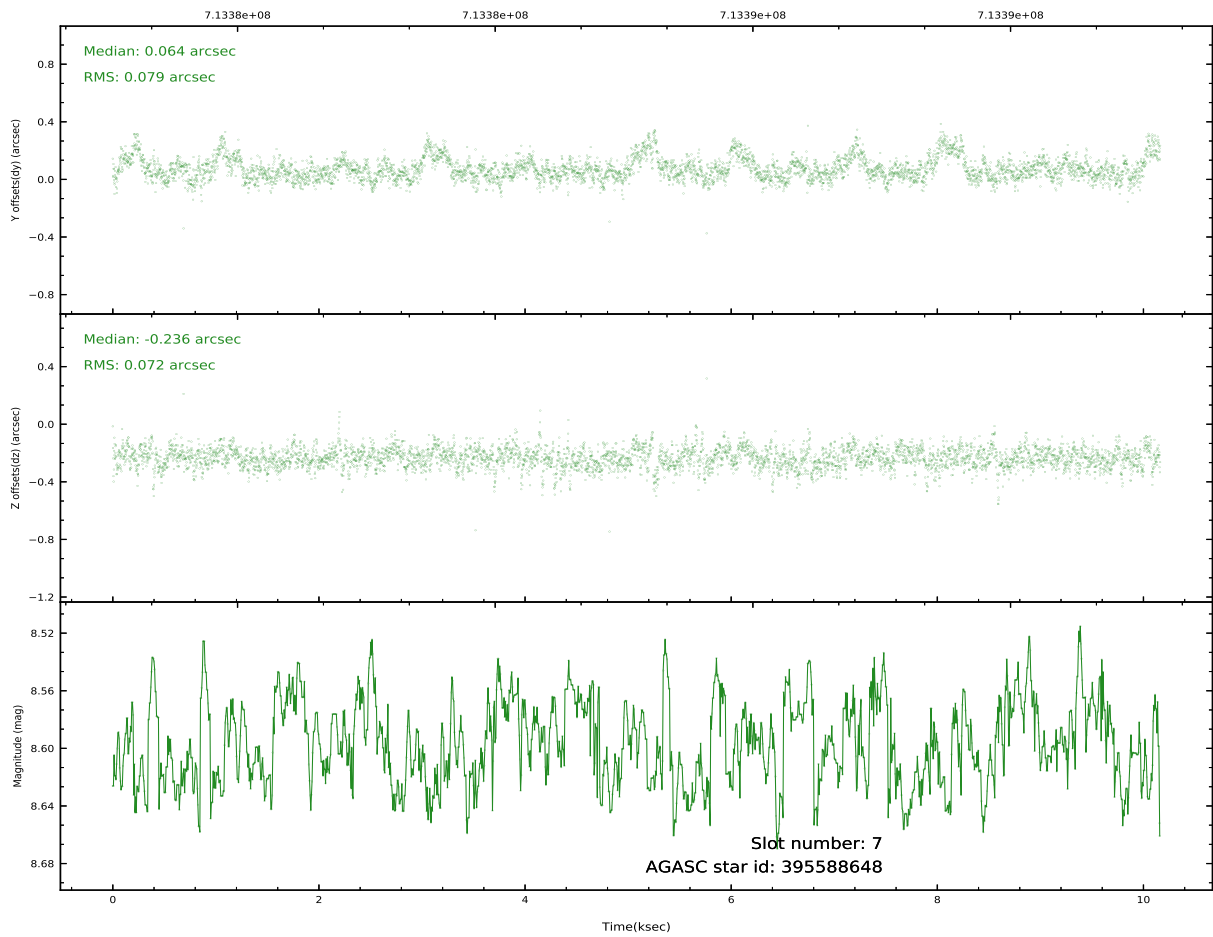
Time (s)



2.4.5 Slot 7

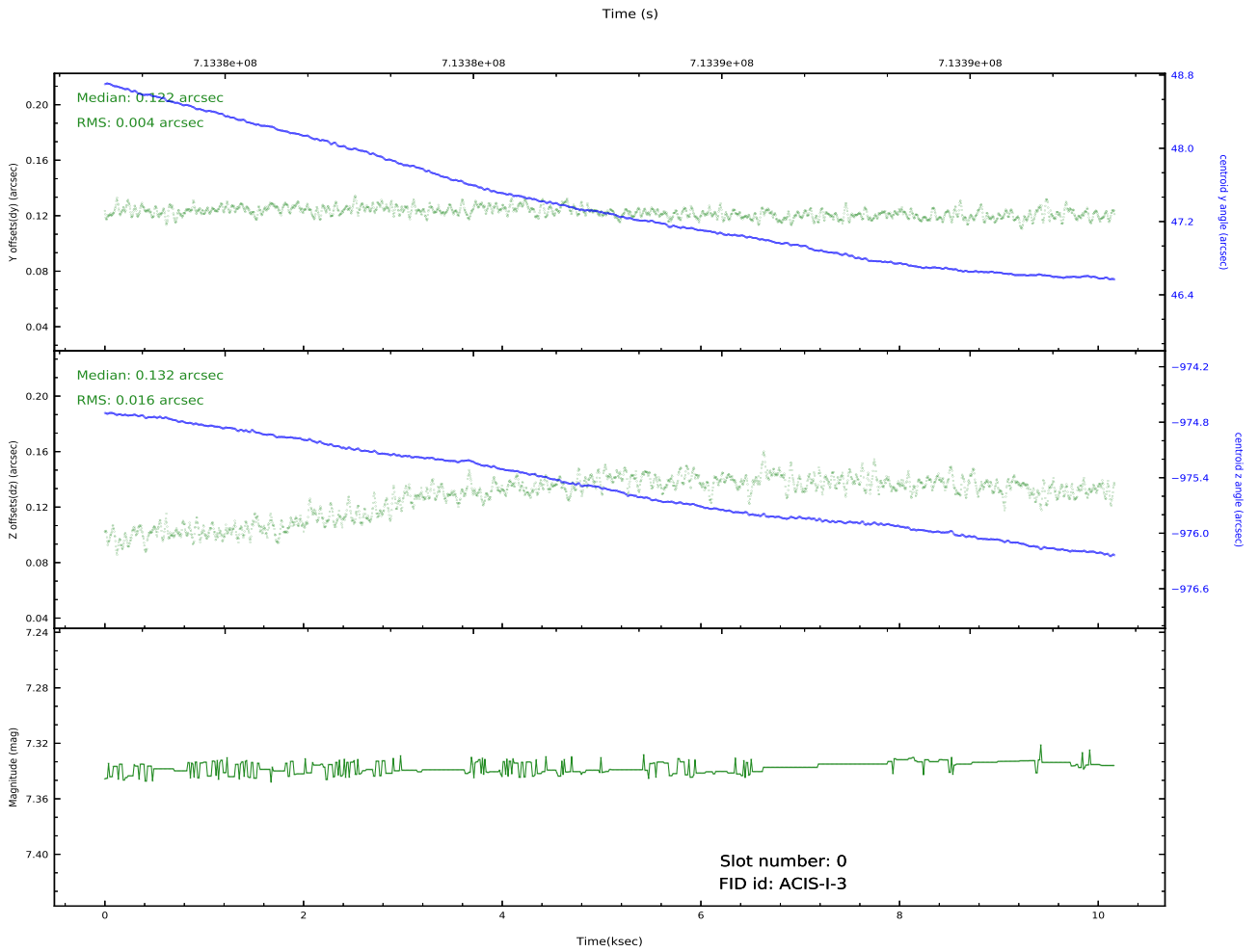
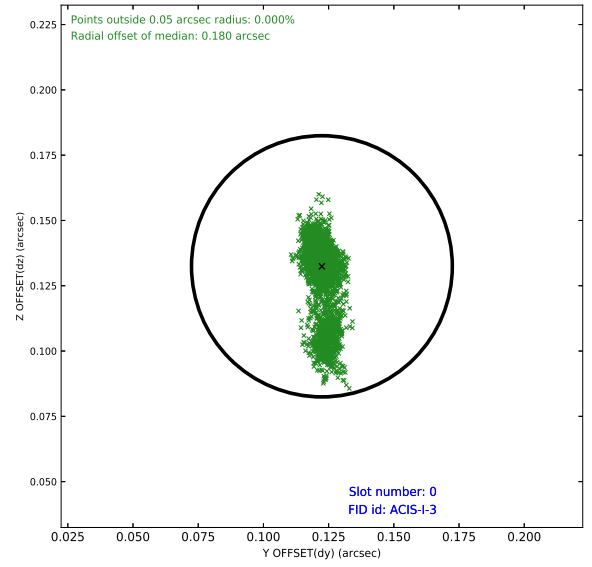
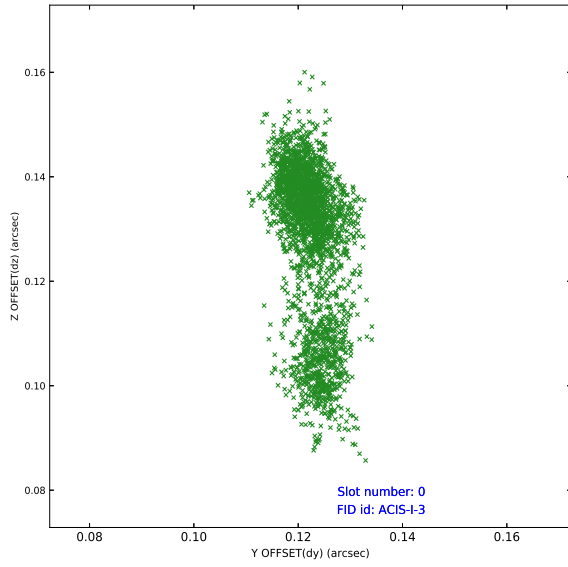


Time (s)

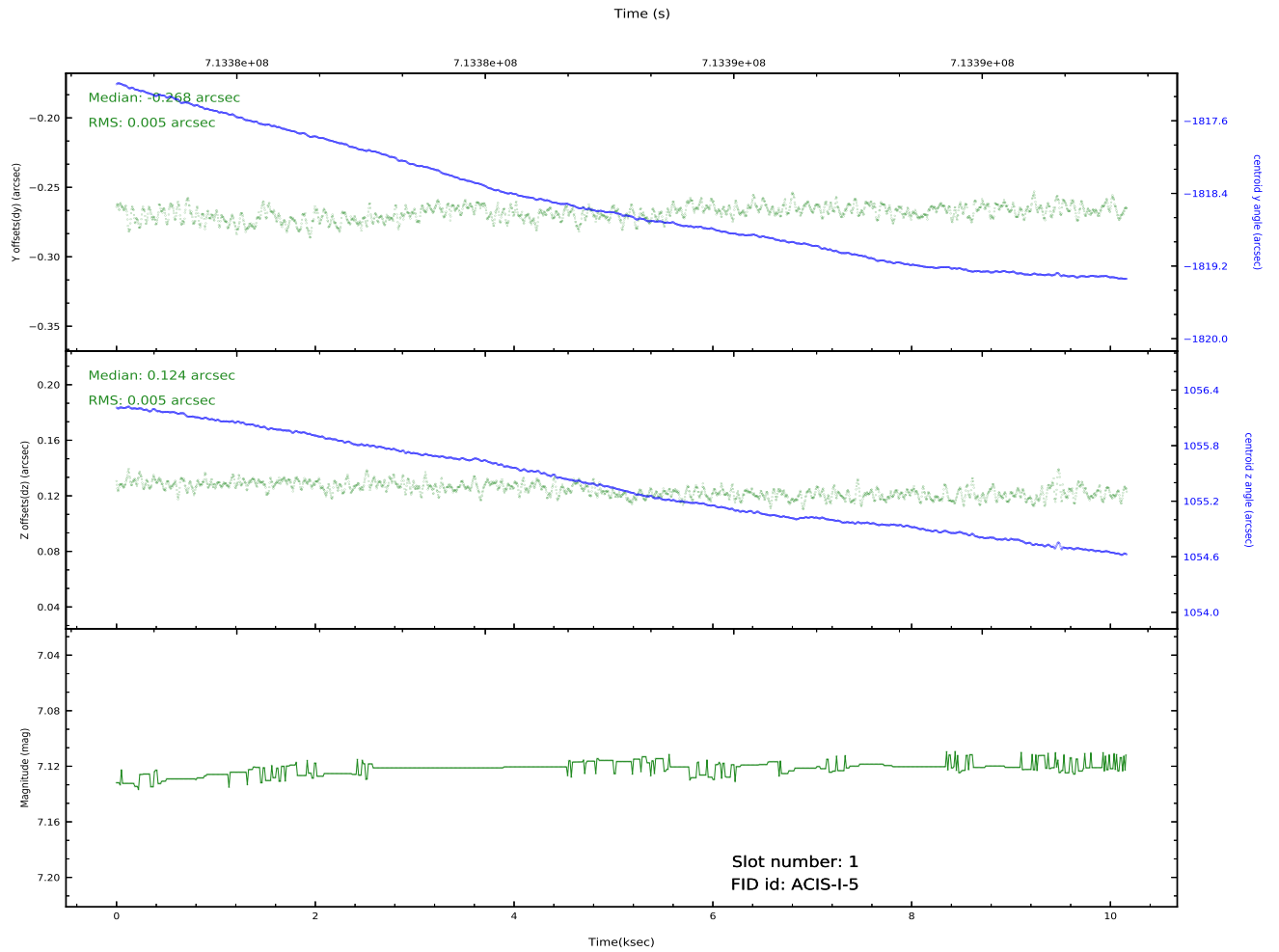
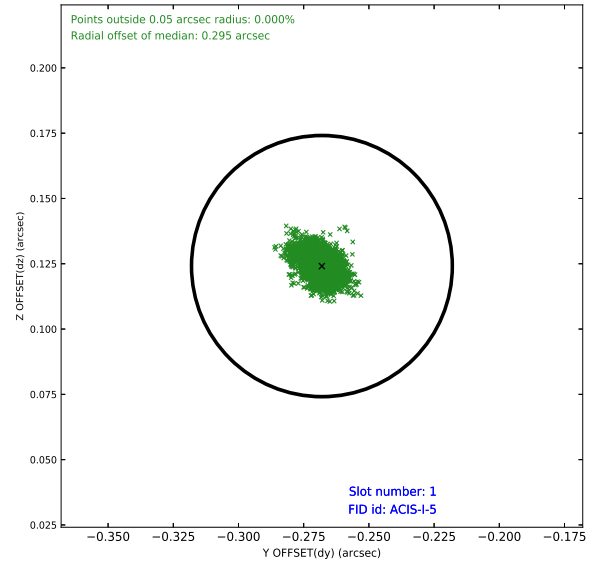
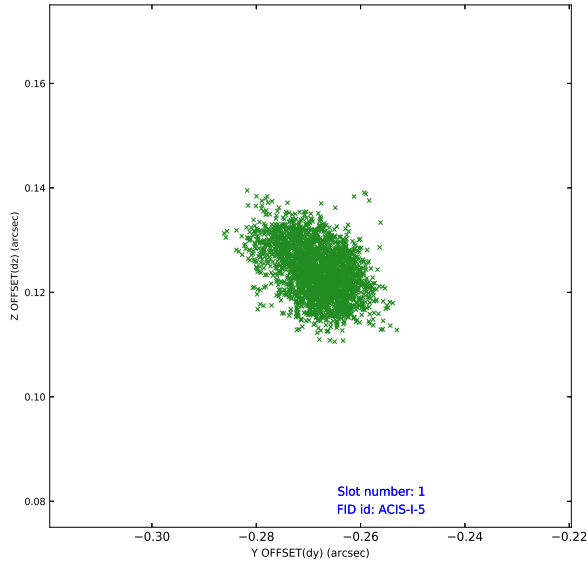


2.5 FID Slots

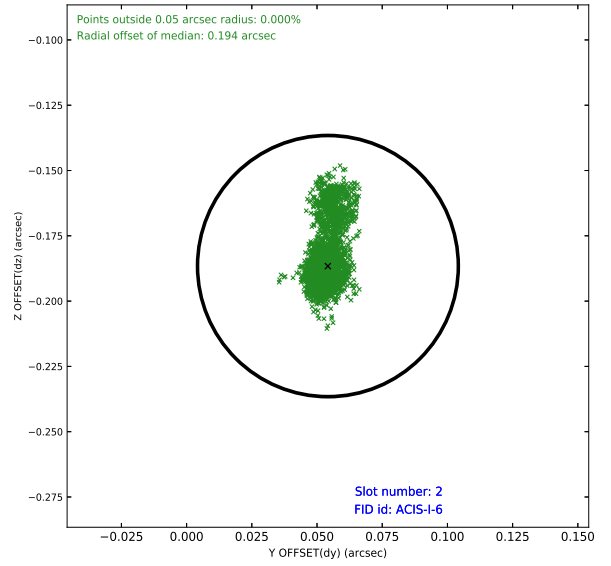
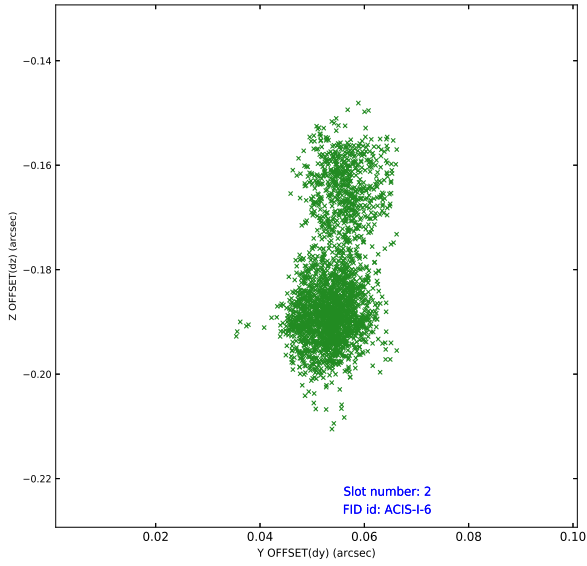
2.5.1 Slot 0



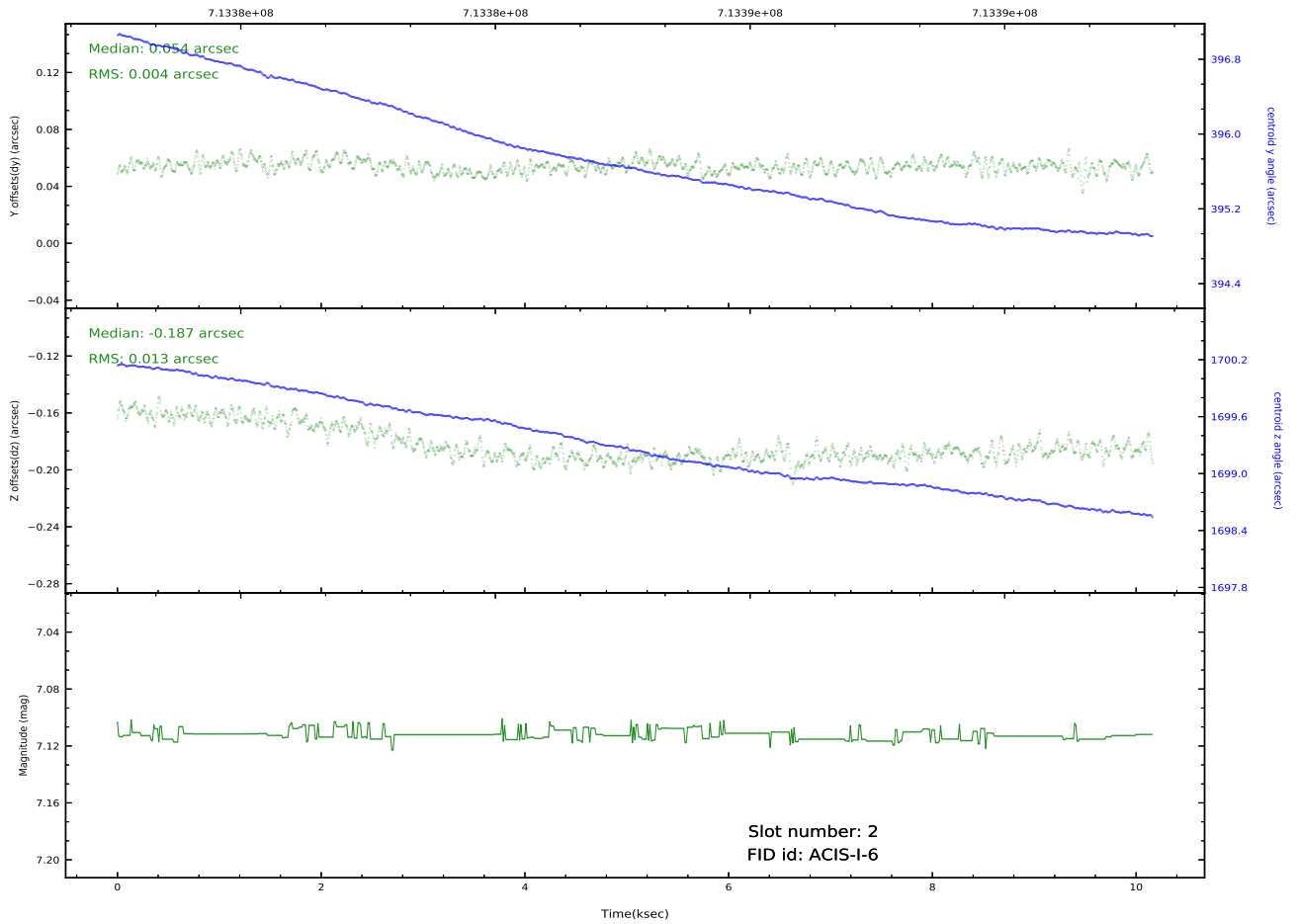
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.074959117293

A.2 Comments