

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4978 - L2 Version 5
Chandra X-Ray Center

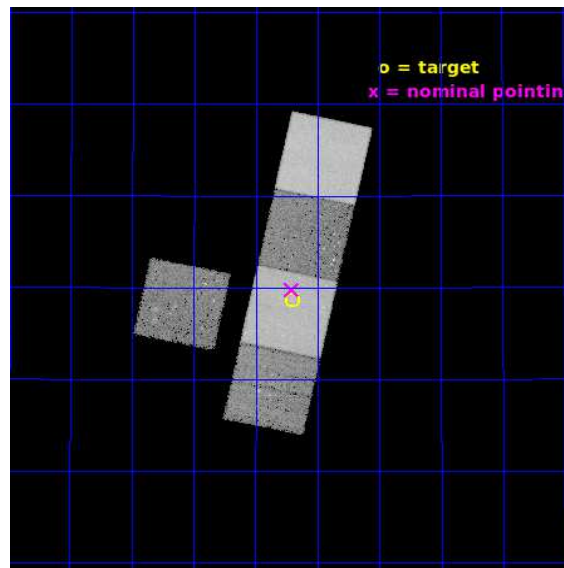
L2 Processing Date : Oct 6 2020

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1 Front

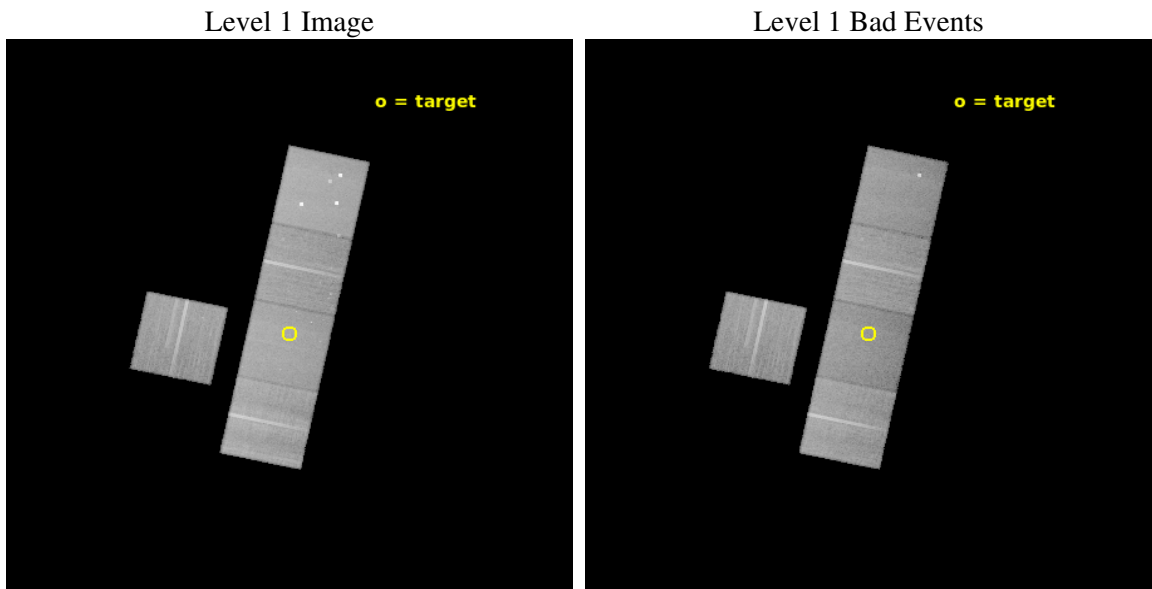
seq_num	800423	Sequence number
obs_id	4978	Observation id
title	What bends the lobes of WAT radio sources in isolated environments -- are they in fossil groups?	Proposal title
observer	Elizabeth Blanton	Principal investigator
object	FIRST J124942.2+303838	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	192.425833	Observer's specified target RA [deg]
dec_targ	30.643889	Observer's specified target Dec [deg]
ra_nom	192.42647557434	Nominal RA [deg]
dec_nom	30.66294373793	Nominal Dec [deg]
roll_nom	102.16742056544	Nominal Roll [deg]
revision	5	Processing version of data
ontime	35172.599932343	Sum of GTIs [s]
livetime	34713.044020535	Livetime [s]
ontime3	35169.458942086	Sum of GTIs [s]
ontime5	35172.599932343	Sum of GTIs [s]
ontime6	35172.599932343	Sum of GTIs [s]
ontime7	35172.599932343	Sum of GTIs [s]
ontime8	35163.177071124	Sum of GTIs [s]
l2events	298259	Number of level 2 events



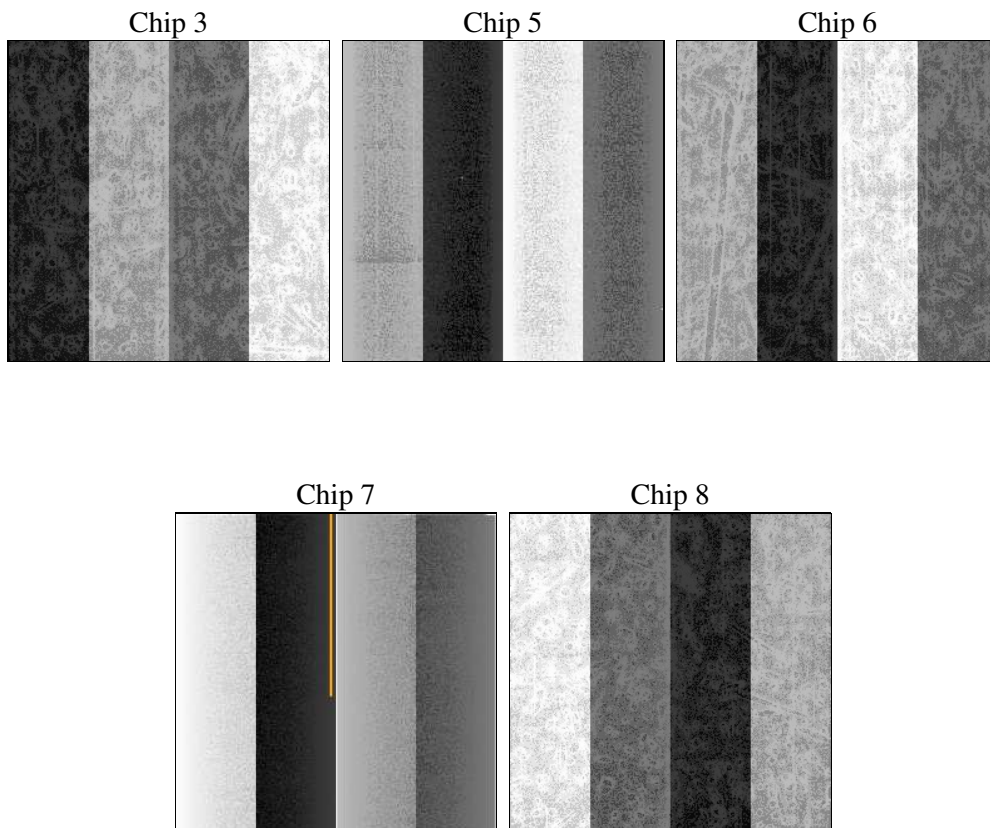
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	35172.599932343	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	35169.458942086	Sum of GTIs [s]
date	2020-10-06T16:59:24	Date and time of file creation	ontime5	35172.599932343	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	35172.599932343	Sum of GTIs [s]
			ontime7	35172.599932343	Sum of GTIs [s]
			ontime8	35163.177071124	Sum of GTIs [s]
			l1events	1292821	Number of level 1 events

2.1.4 Events

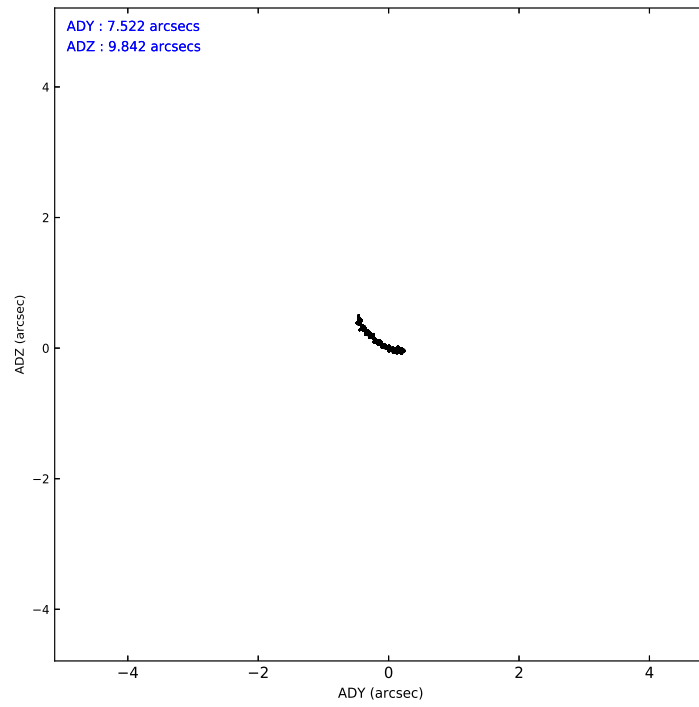
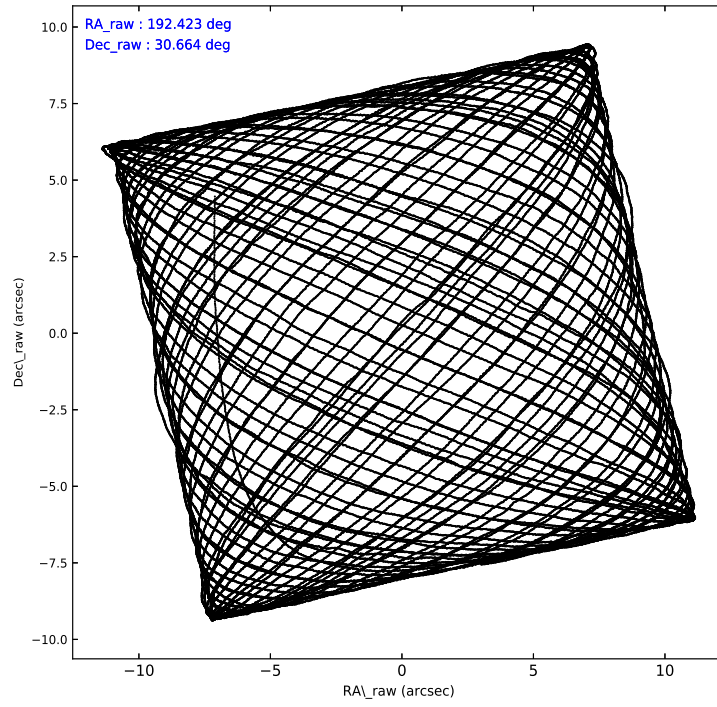
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	213926	323329	224089	248579	282898
rejected events	194017	163265	201311	140631	218869
rejected %	90%	50%	89%	56%	77%

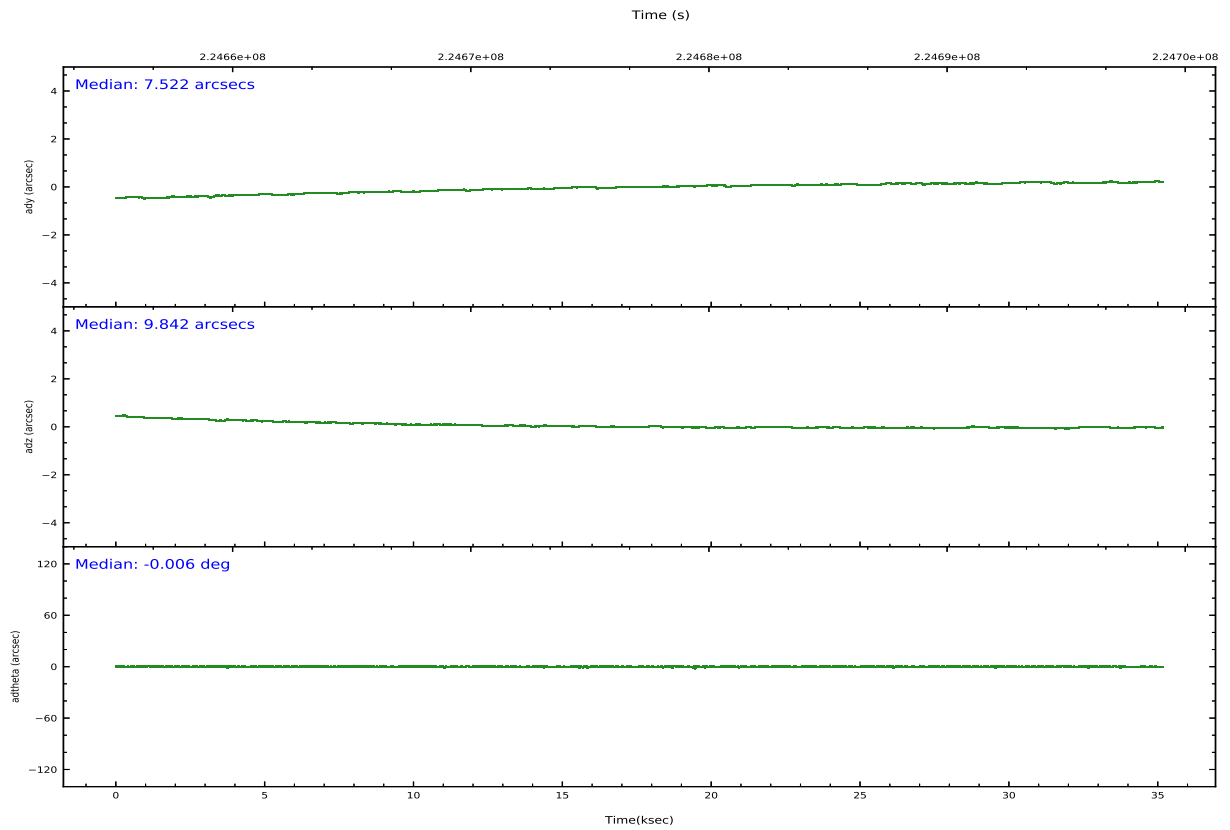
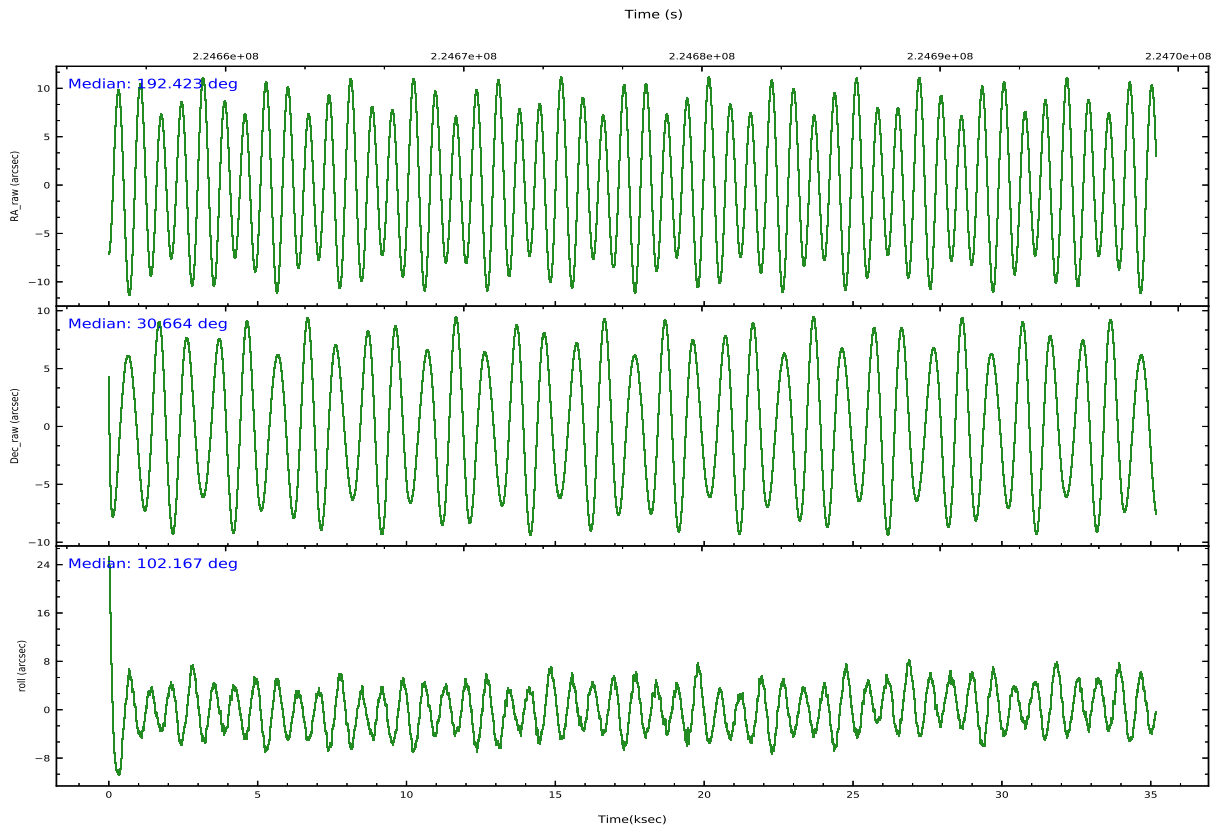
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7500	29969	8410	9981	19604
	3%	9%	3%	4%	6%
grade 1 events	119	257	121	245	196
	0%	0%	0%	0%	0%
grade 2 events	4362	45906	5095	22664	14661
	2%	14%	2%	9%	5%
grade 3 events	2454	6697	2646	10457	7248
	1%	2%	1%	4%	2%
grade 4 events	2399	6284	2481	10464	6837
	1%	1%	1%	4%	2%
grade 5 events	8688	24946	9092	26250	12570
	4%	7%	4%	10%	4%
grade 6 events	3967	77355	4962	58472	18155
	1%	23%	2%	23%	6%
grade 7 events	184437	131915	191282	110046	203627
	86%	40%	85%	44%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	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	192.444290	192.42647557434	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.644533	30.66294373793	Alternating exposures requested	N	N
[deg] Pointing Roll	102.002907	102.16742056544	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	224660256.184000	224658603.13058			
Observation start date	2005-02-13T05:36:32	2005-02-13T05:10:03			
[s] Observation end time (MET)	224695256.184000	224696533.2573			
Observation end date	2005-02-13T15:19:52	2005-02-13T15:42:13			
Read mode	TIMED	TIMED			

2.3 Aspect



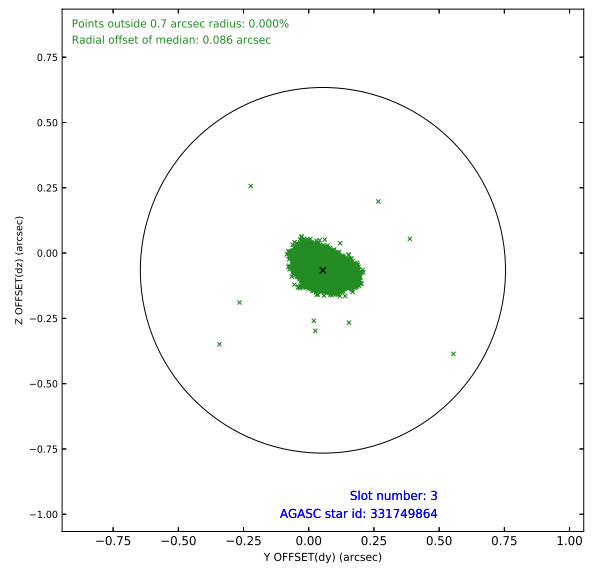
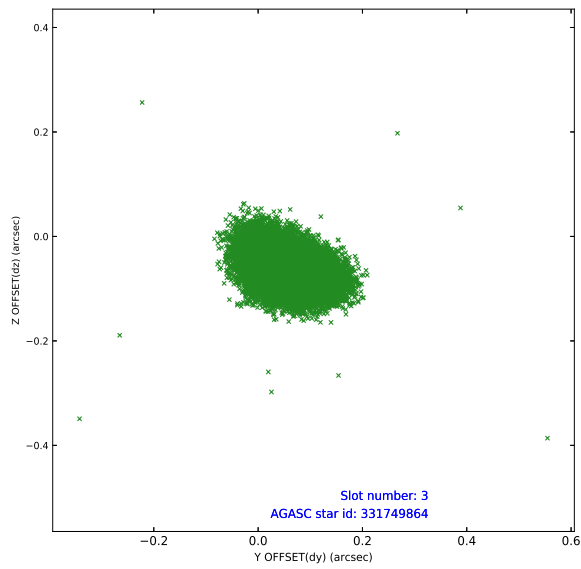


Slot Statistics

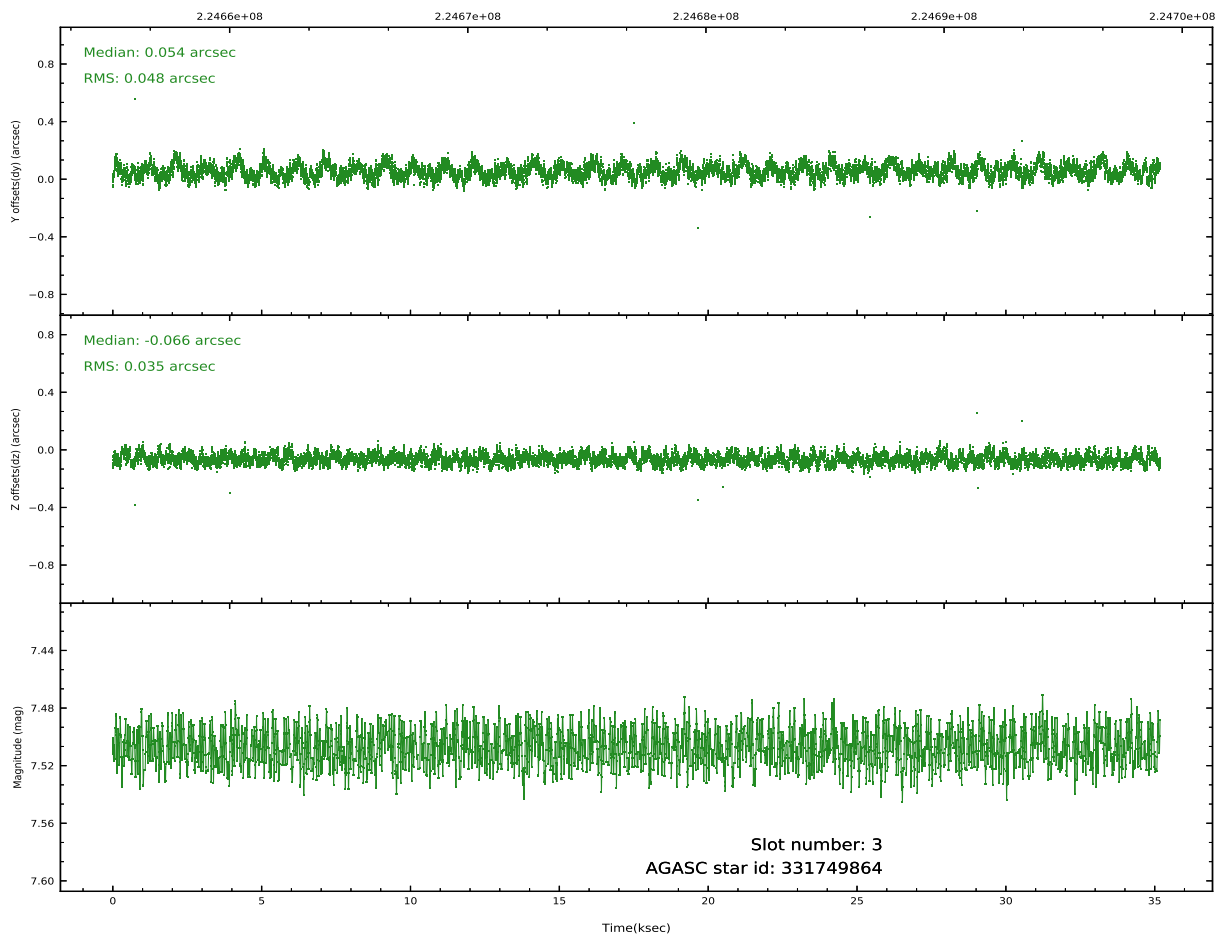
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	8581	1.000	-0.075	-0.068	0.010	0.017	0.000000	0.000000	-760.24	-1731
1	FID		ACIS-S-4	7.21	8581	1.000	0.160	0.055	0.008	0.013	0.000000	0.000000	2153.18	177
2	FID		ACIS-S-5	7.24	8582	1.000	-0.115	0.022	0.008	0.015	0.000000	0.000000	-1813.14	171
3	GUIDE	used	331749864	7.51	17163	1.000	0.054	-0.066	0.063	0.102	192.063638	30.396140	-626.86	1341
4	GUIDE	used	331752136	8.18	17161	1.000	-0.012	-0.068	0.070	0.109	192.091746	30.767179	660.55	975
5	GUIDE	used	331753984	9.89	17145	1.000	0.129	-0.065	0.185	0.318	191.969407	30.821639	932.08	1303
6	GUIDE	used	331744120	8.93	17145	1.000	-0.058	0.156	0.099	0.161	193.140390	31.116277	1222.17	-2452
7	GUIDE	used	331748496	9.38	17094	1.000	-0.100	0.024	0.110	0.181	191.833821	31.213608	2398.54	1411

2.4 Star Slots

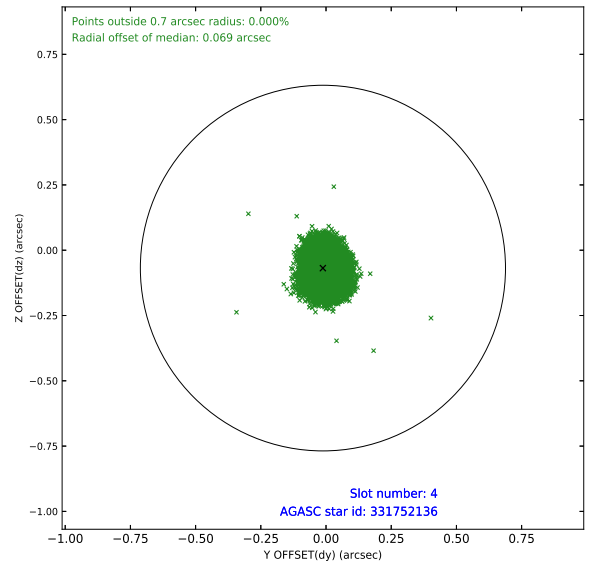
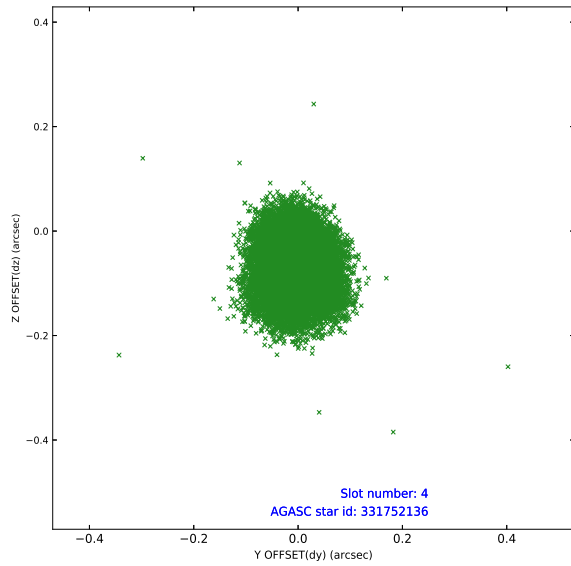
2.4.1 Slot 3



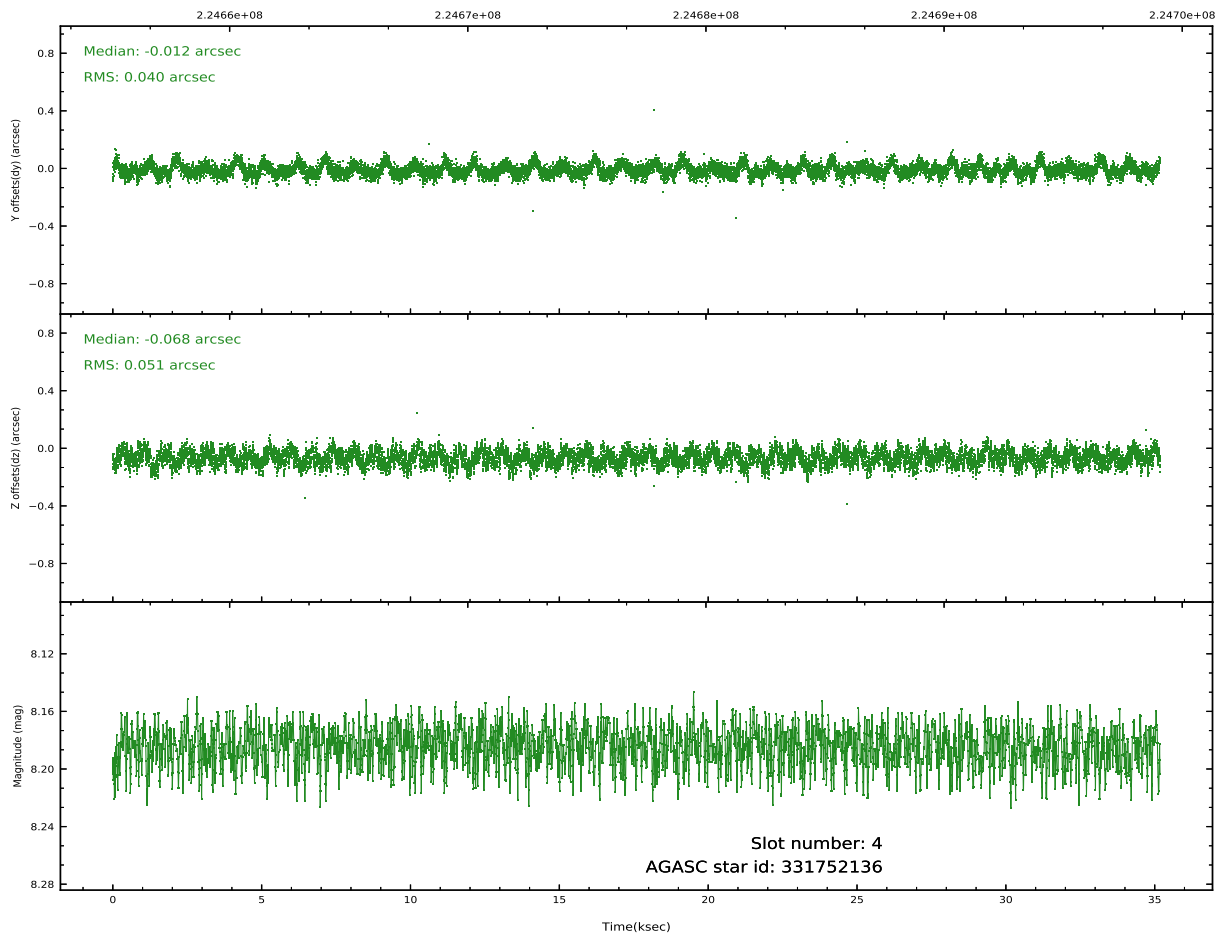
Time (s)



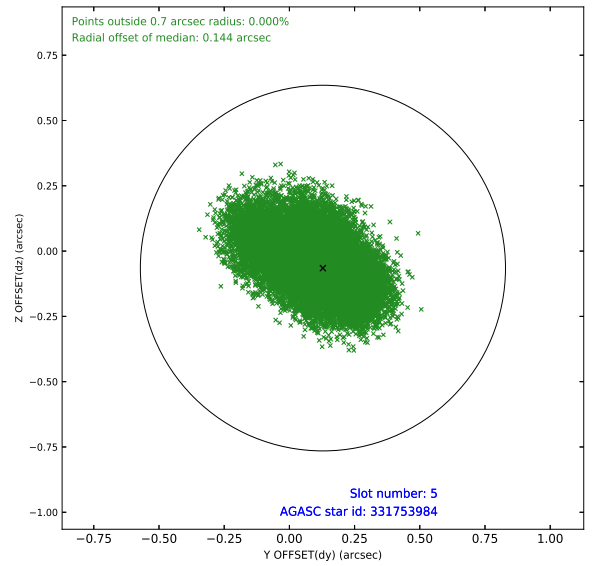
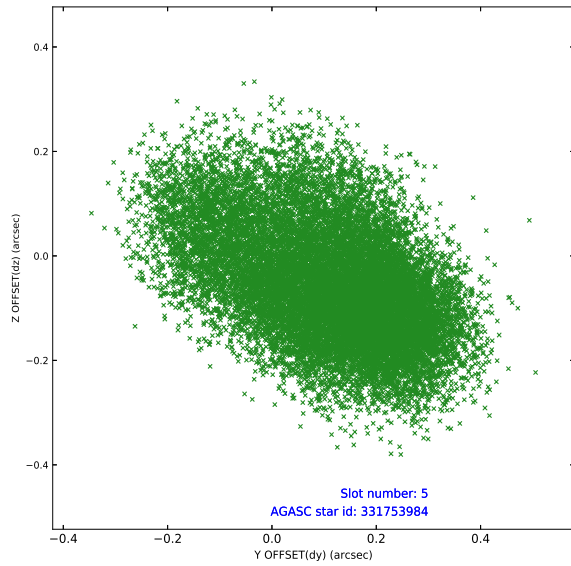
2.4.2 Slot 4



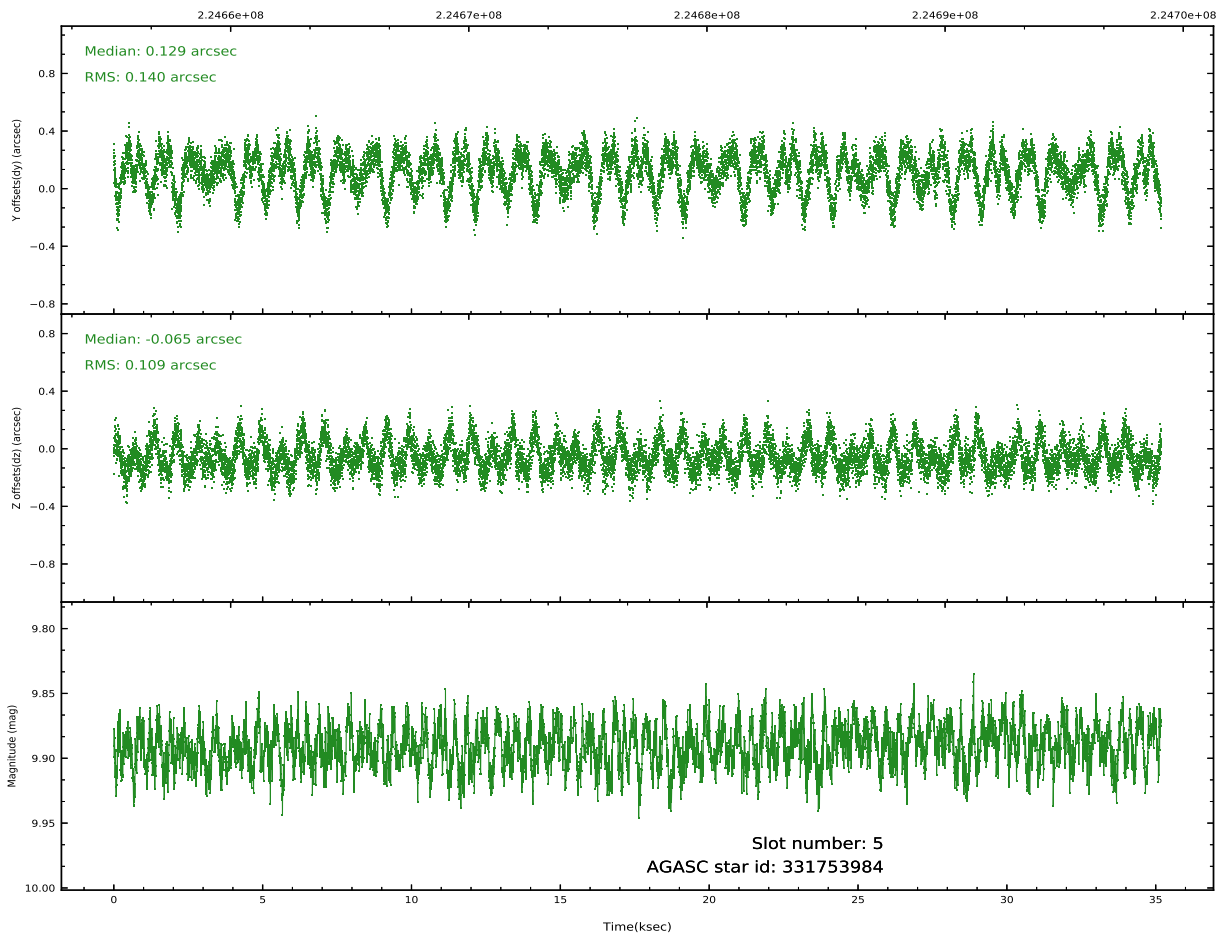
Time (s)



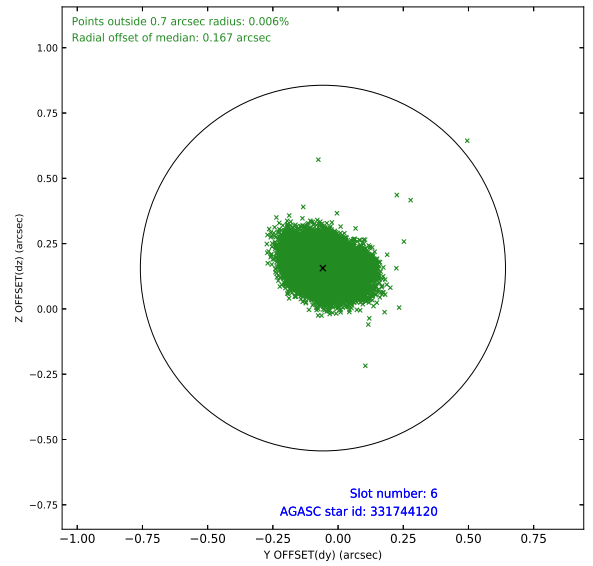
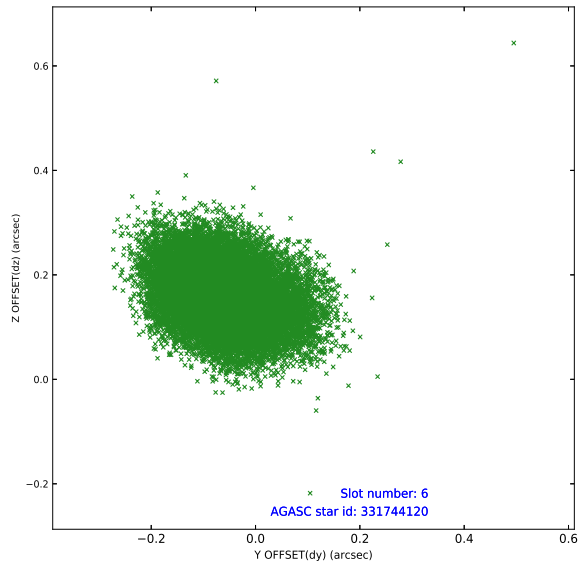
2.4.3 Slot 5



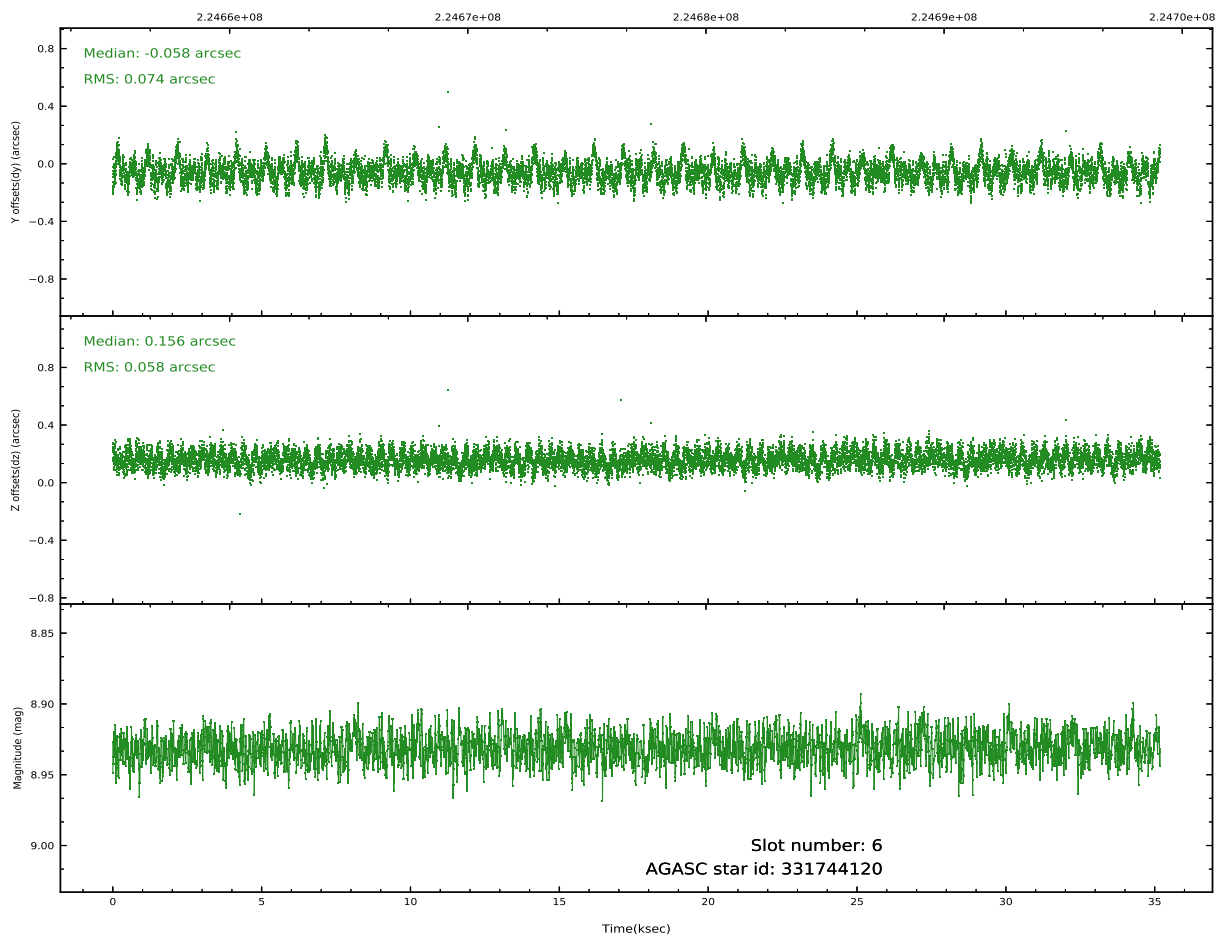
Time (s)



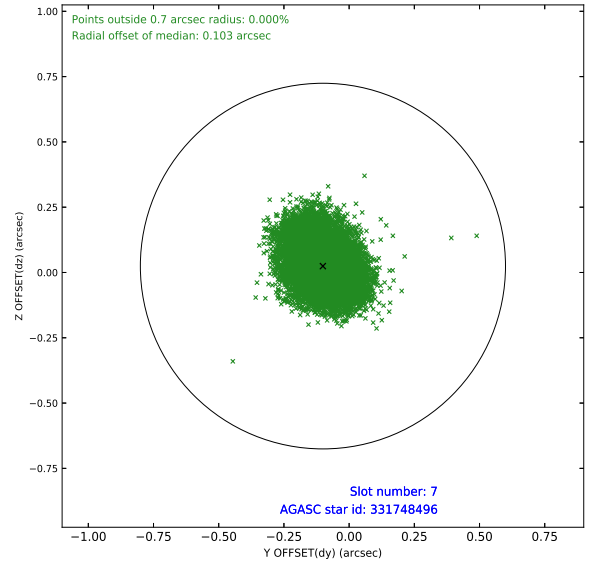
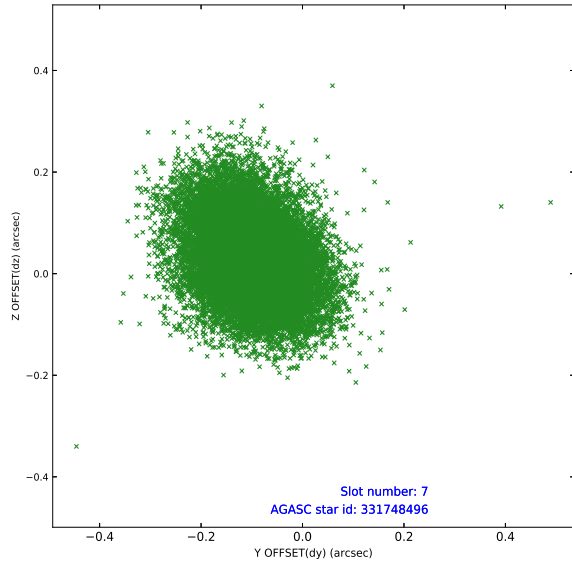
2.4.4 Slot 6



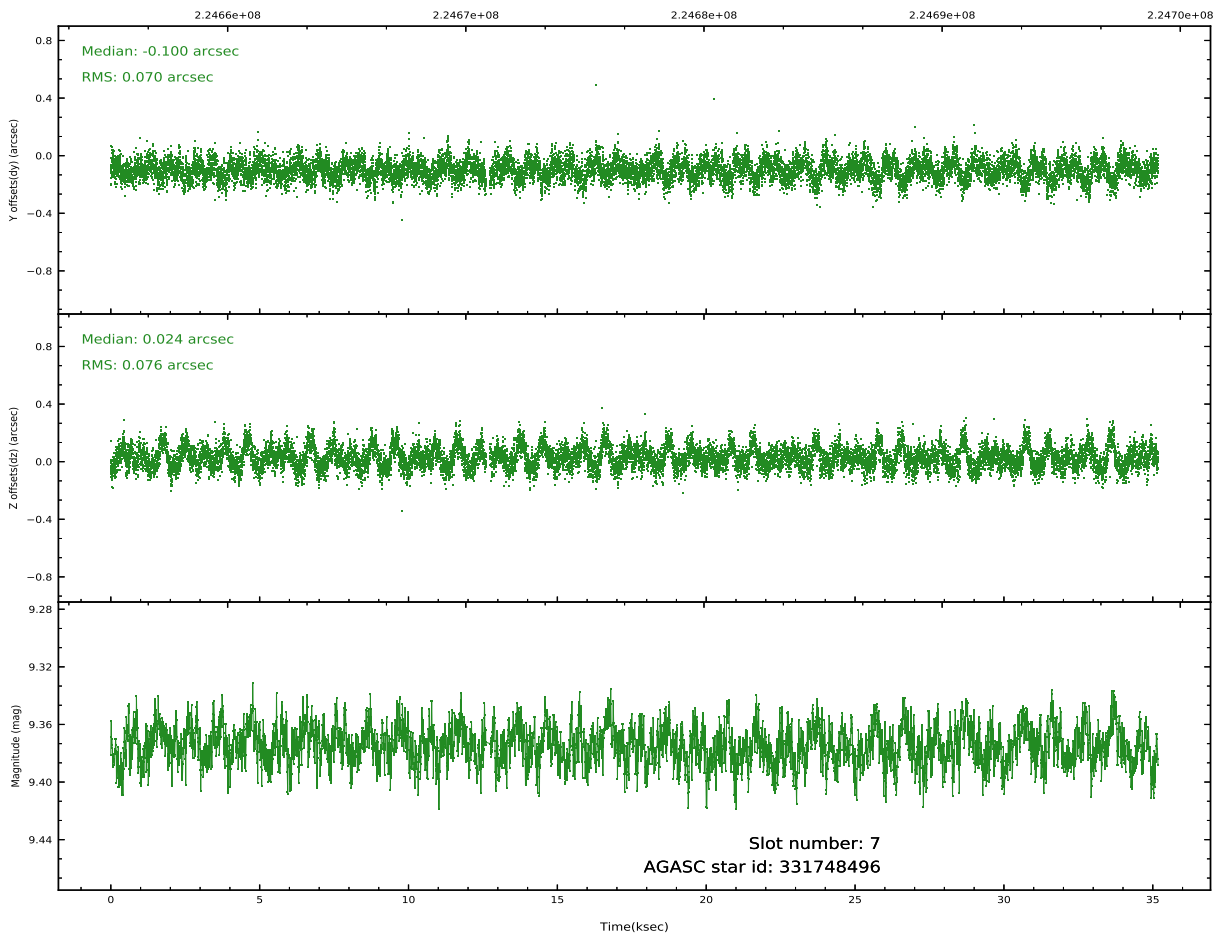
Time (s)



2.4.5 Slot 7

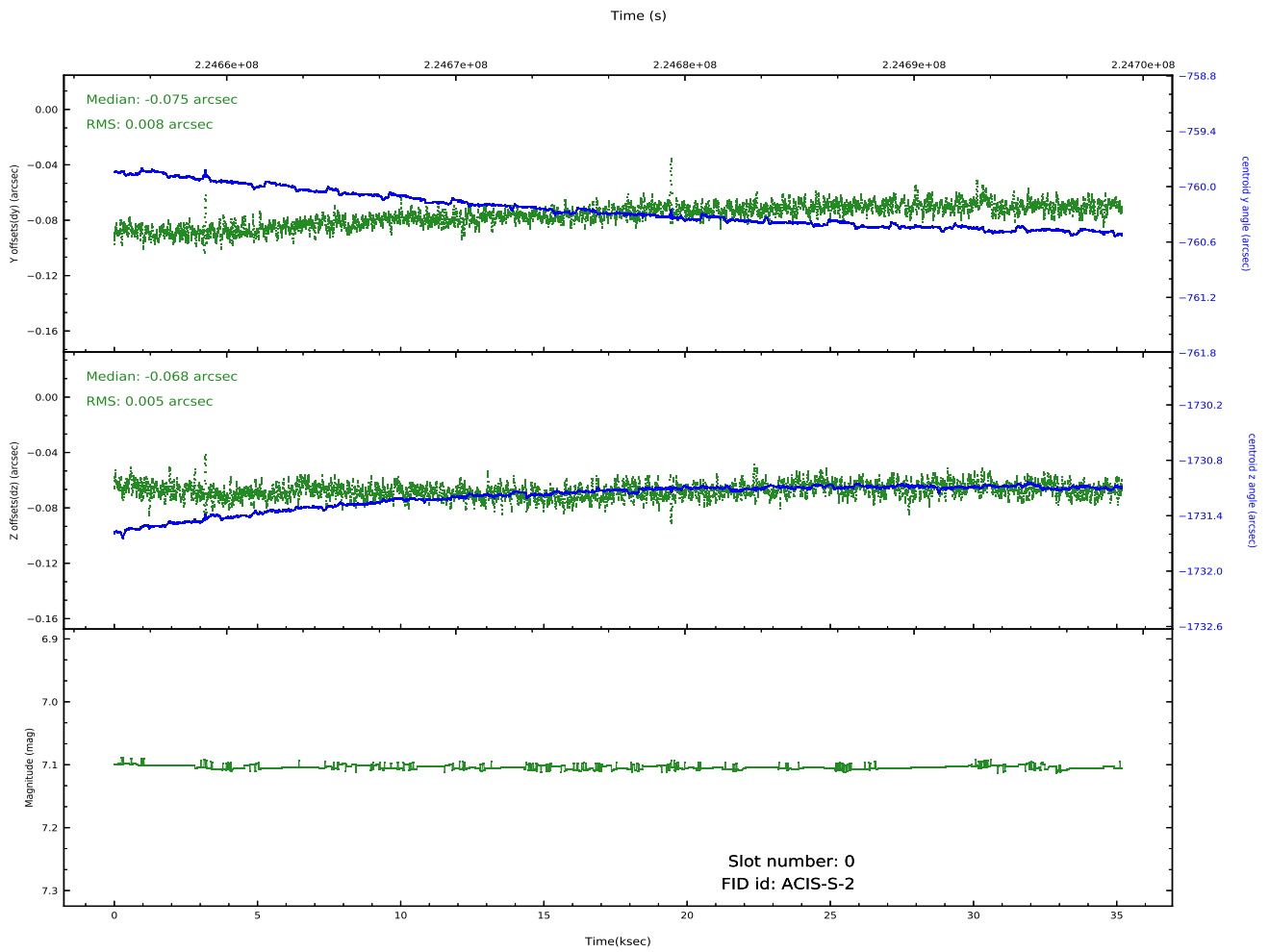
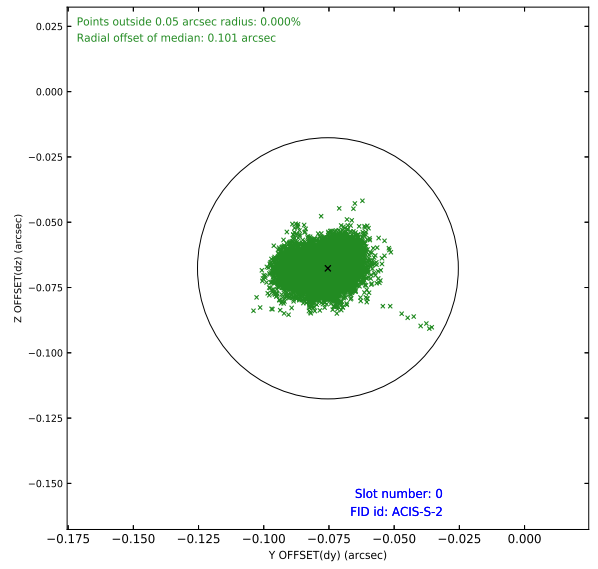
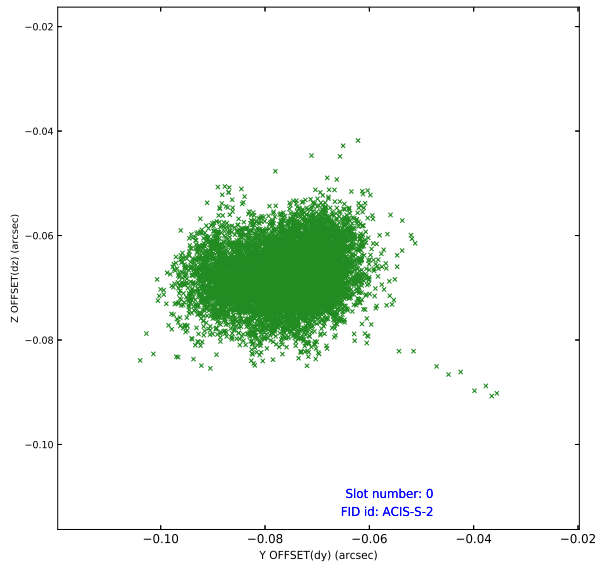


Time (s)

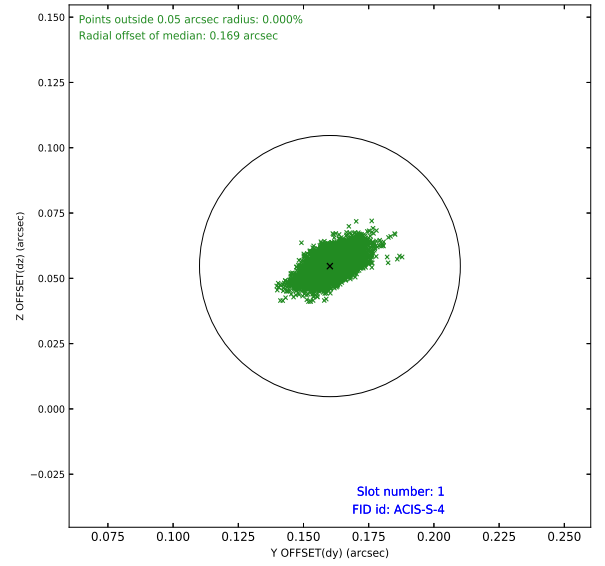
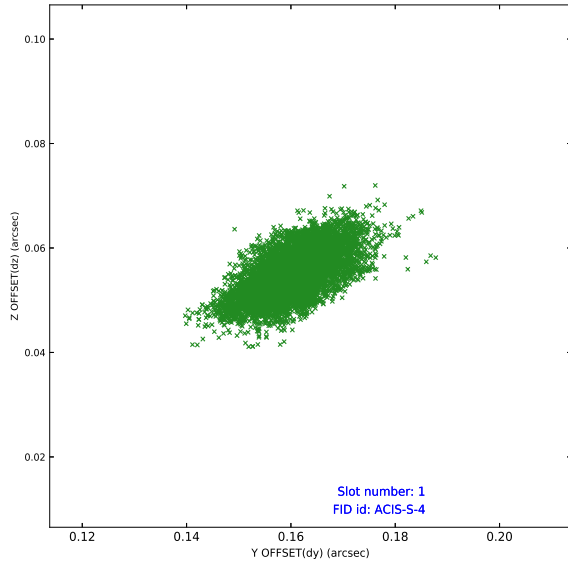


2.5 FID Slots

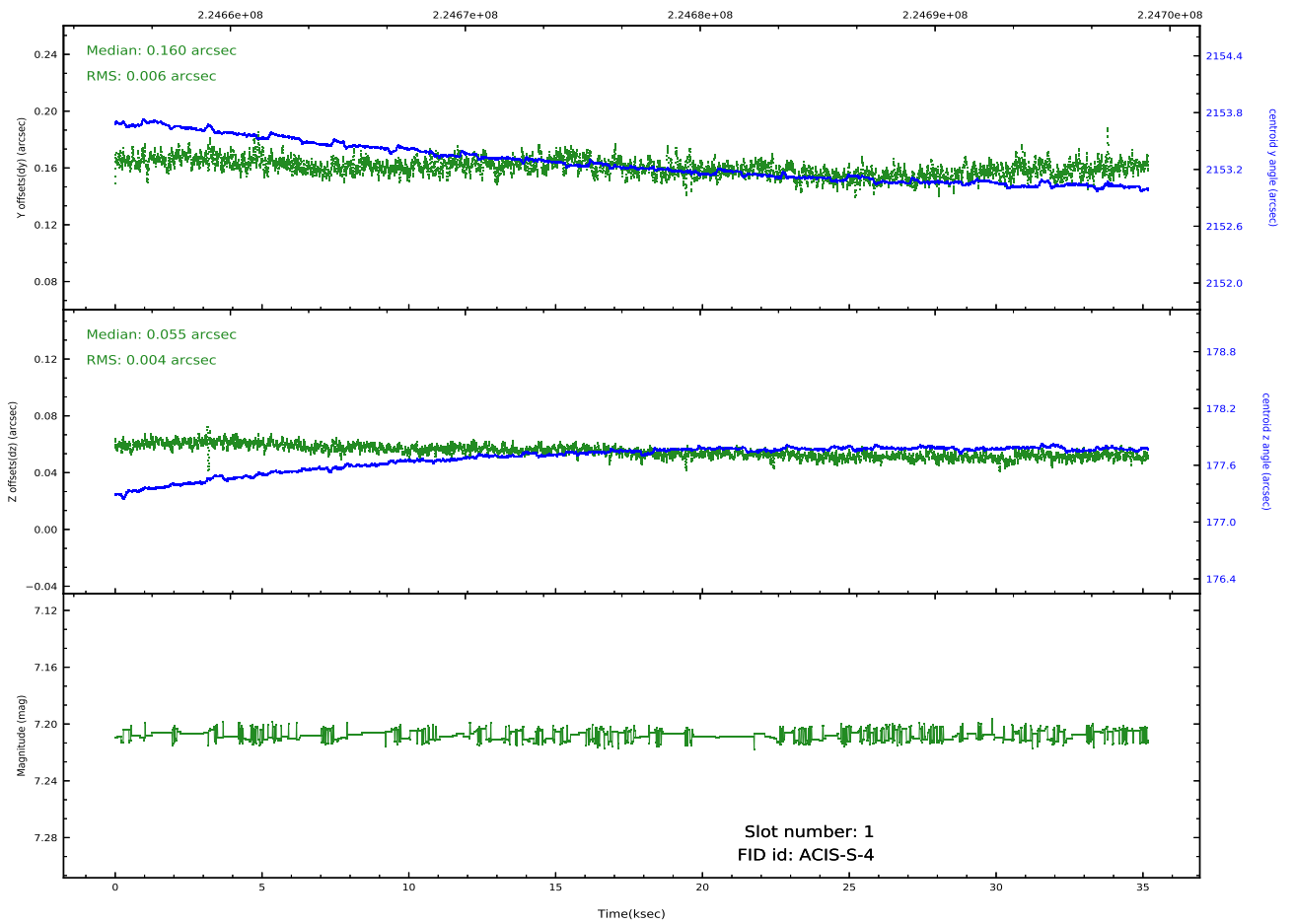
2.5.1 Slot 0



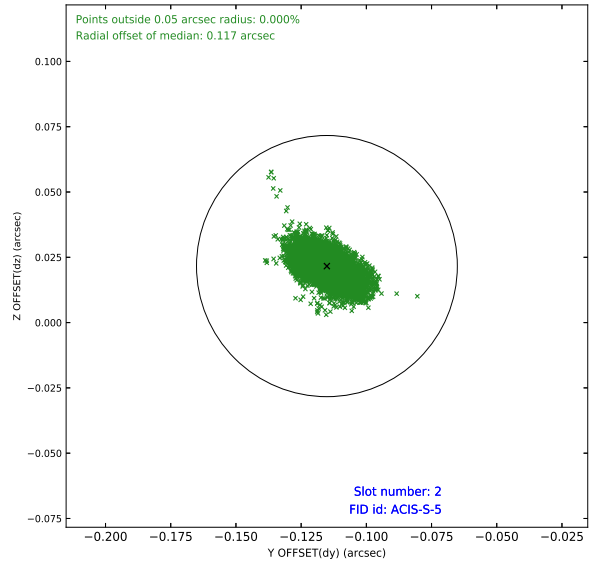
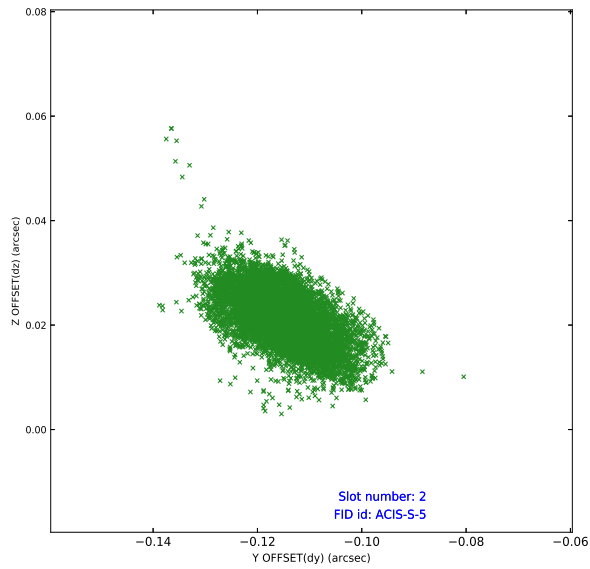
2.5.2 Slot 1



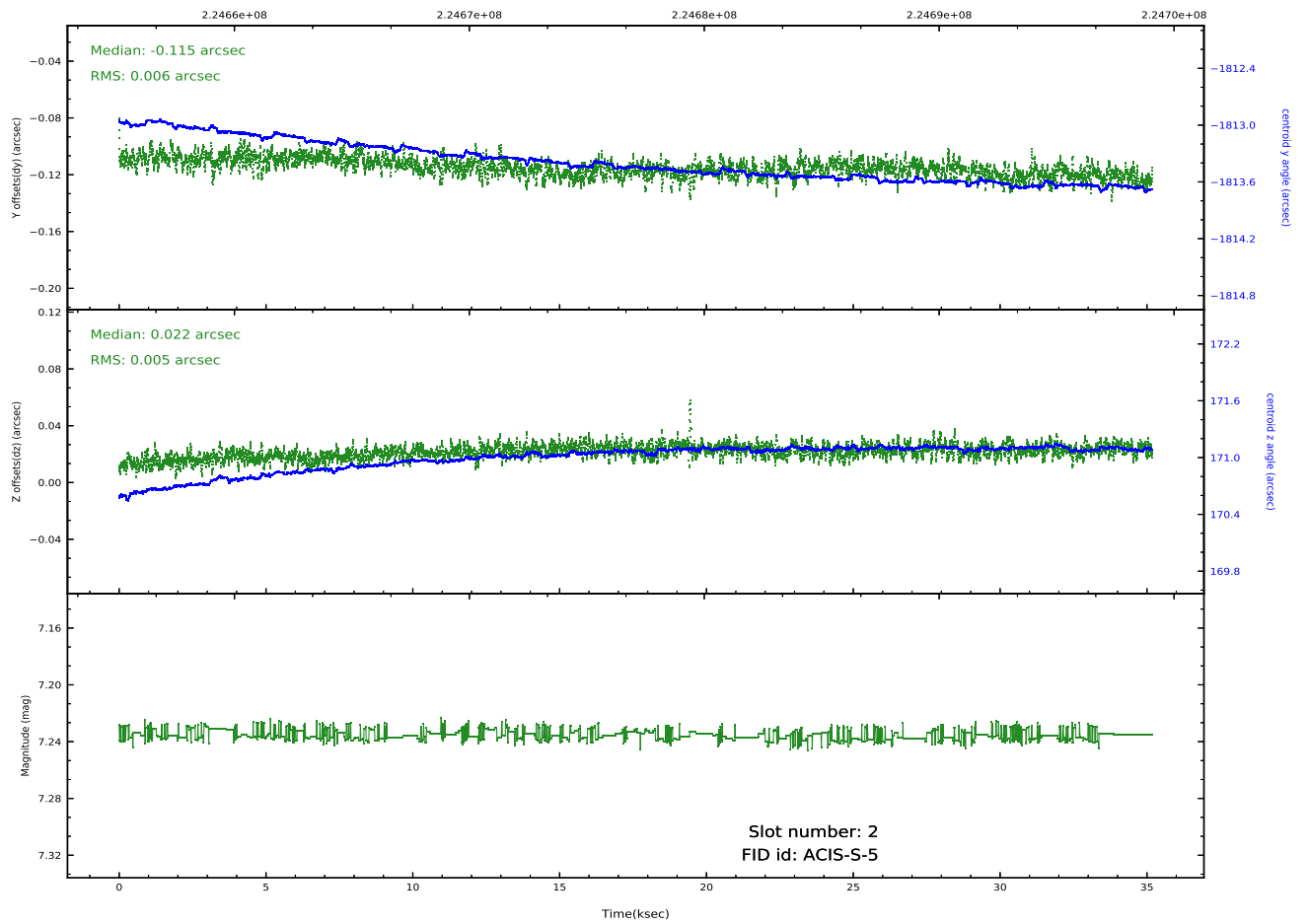
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.17259

A.2 Comments