

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5597 - L2 Version 4
Chandra X-Ray Center

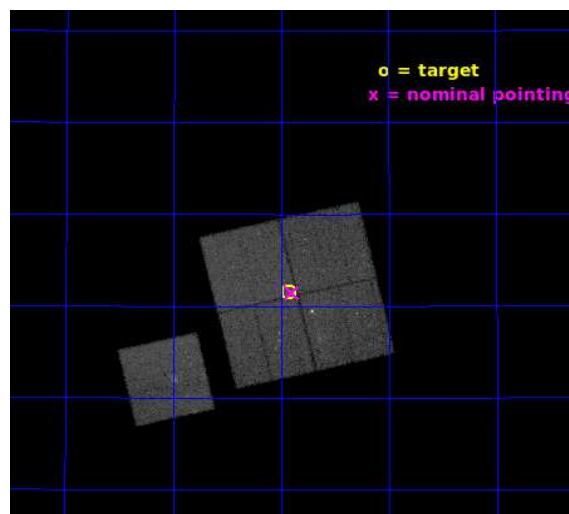
L2 Processing Date : Oct 5 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

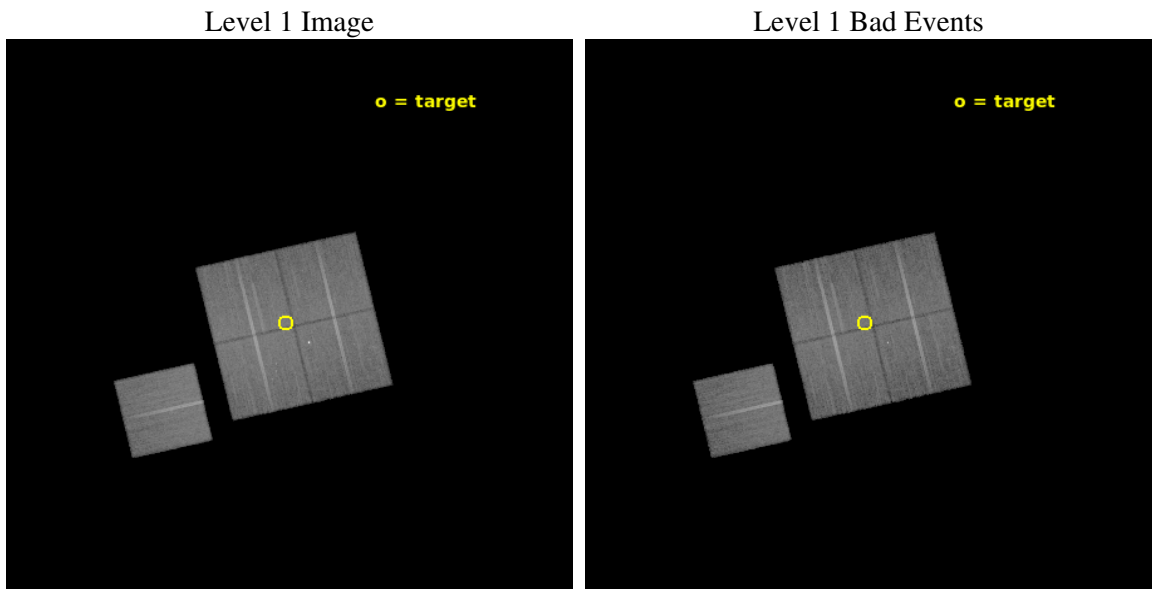
seq_num	701021	Sequence number
obs_id	5597	Observation id
title	An X-ray study of the hot gas environment around the nearby radio galaxy IC 310	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	IC 310	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.231587	Observer's specified target RA [deg]
dec_targ	41.358783	Observer's specified target Dec [deg]
ra_nom	49.224855972643	Nominal RA [deg]
dec_nom	41.357932691868	Nominal Dec [deg]
roll_nom	256.84701209841	Nominal Roll [deg]
revision	4	Processing version of data
ontime	25488.199950963	Sum of GTIs [s]
livetime	25155.177854464	Livetime [s]
ontime0	25485.059030354	Sum of GTIs [s]
ontime1	25488.199950963	Sum of GTIs [s]
ontime2	25481.917960584	Sum of GTIs [s]
ontime3	25488.199950963	Sum of GTIs [s]
ontime6	25485.059030354	Sum of GTIs [s]
l2events	161665	Number of level 2 events



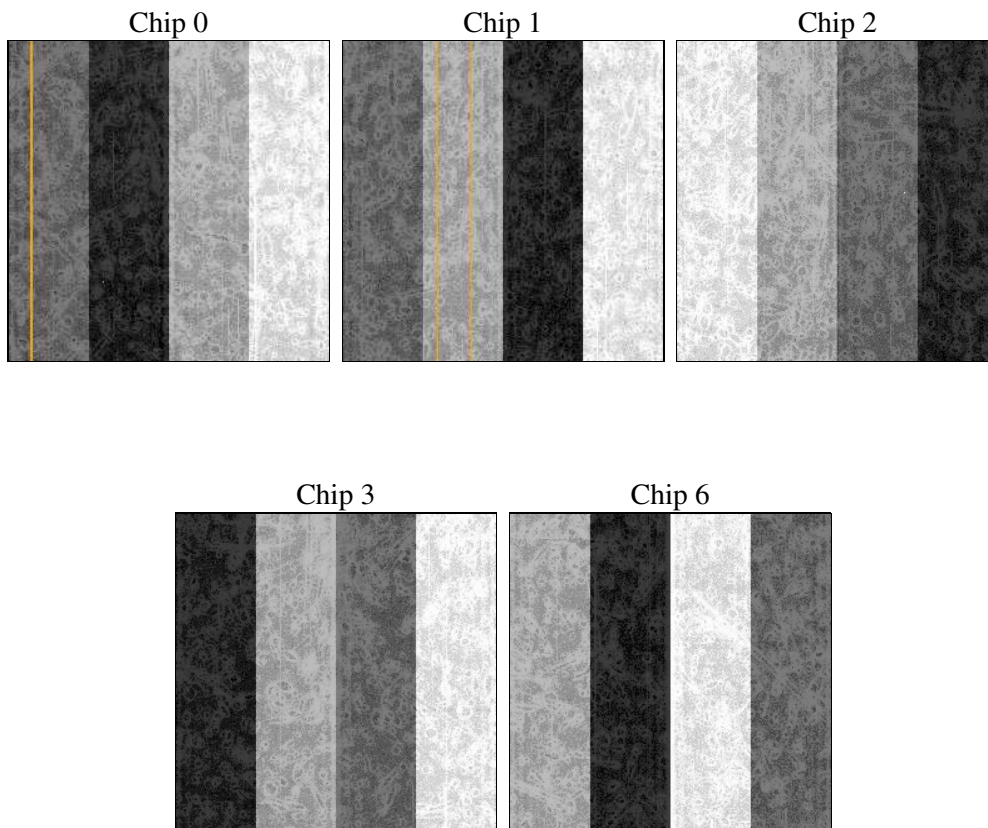
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25310.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	25488.199950963	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	25485.059030354	Sum of GTIs [s]
date	2020-10-05T17:55:39	Date and time of file creation	ontime1	25488.199950963	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	25481.917960584	Sum of GTIs [s]
			ontime3	25488.199950963	Sum of GTIs [s]
			ontime6	25485.059030354	Sum of GTIs [s]
			l1events	1046496	Number of level 1 events

2.1.4 Events

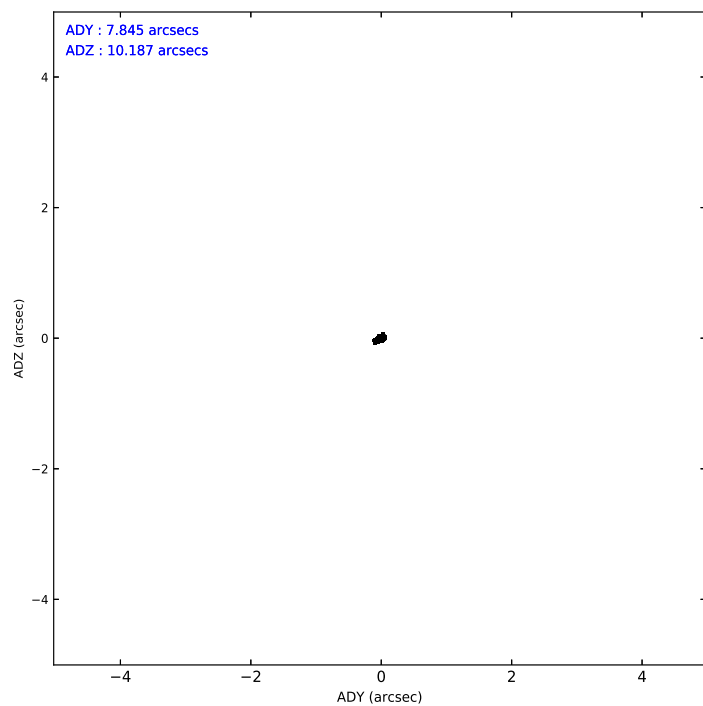
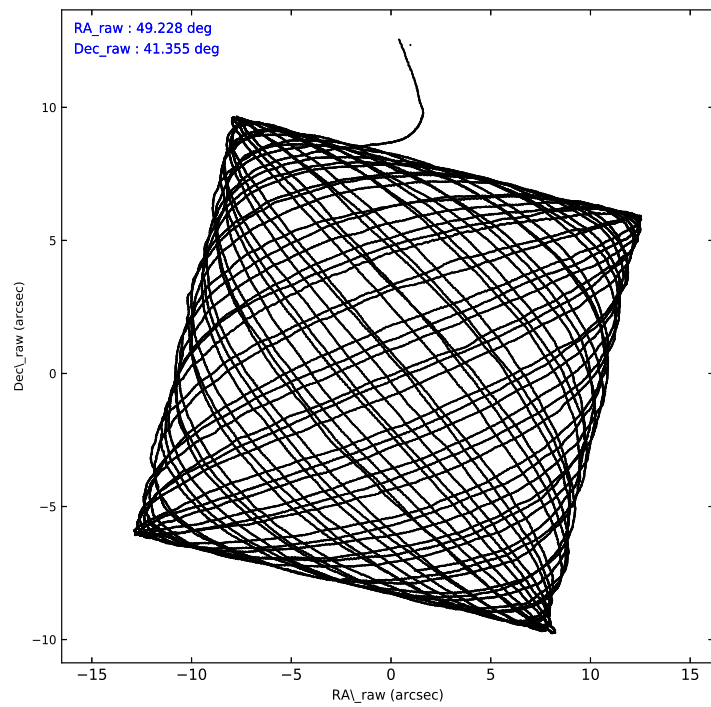
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	201010	194774	215159	216302	219251
rejected events	161950	161514	180696	178420	182094
rejected %	80%	82%	83%	82%	83%

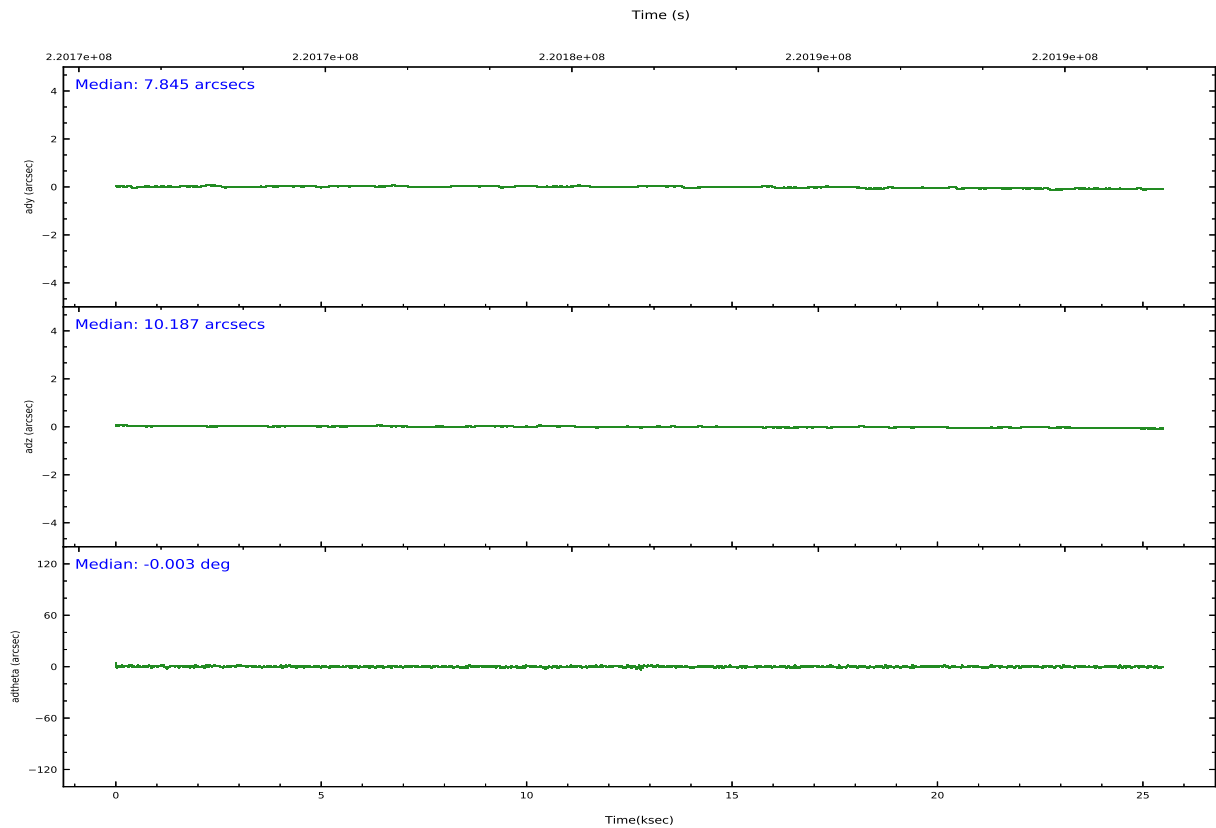
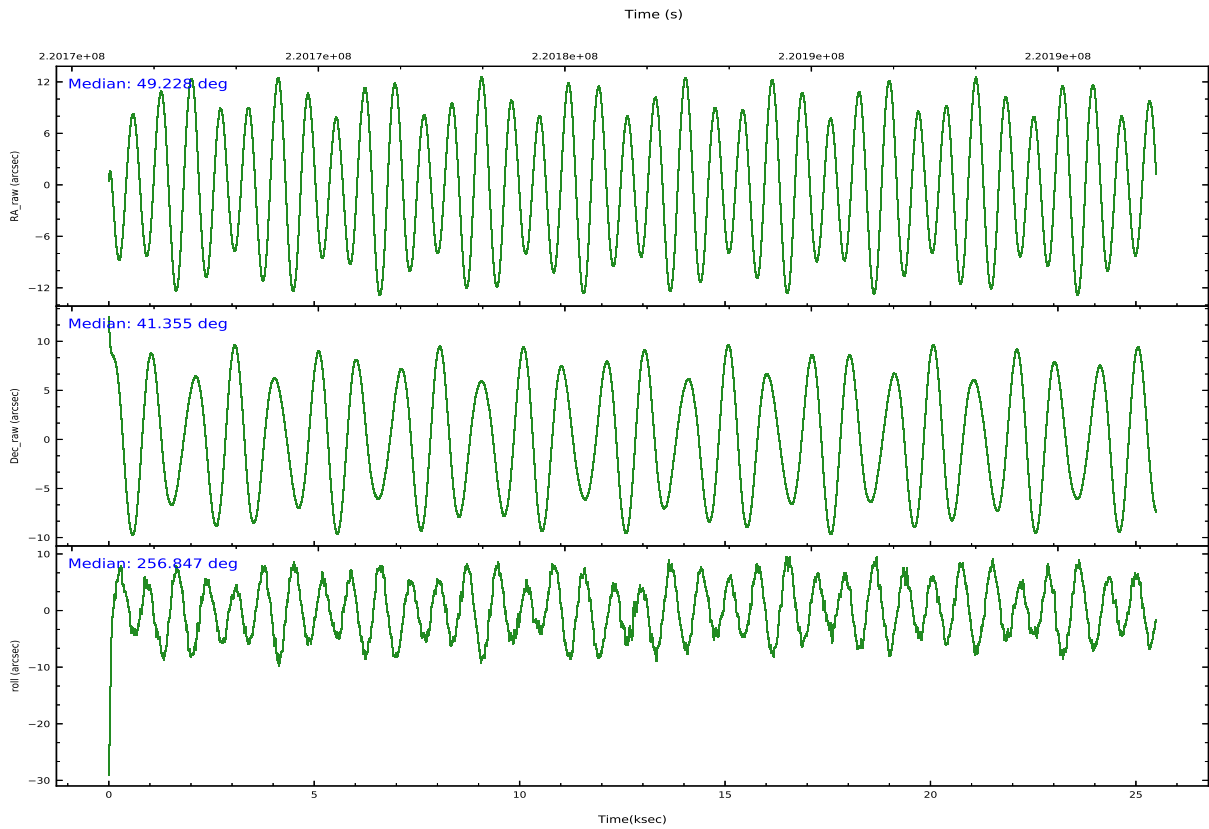
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	21693	16184	19297	21759	20143
	10%	8%	8%	10%	9%
grade 1 events	719	128	187	168	133
	0%	0%	0%	0%	0%
grade 2 events	6957	6438	5894	6015	6338
	3%	3%	2%	2%	2%
grade 3 events	3001	2761	2606	2795	2802
	1%	1%	1%	1%	1%
grade 4 events	2852	2727	2604	2759	2766
	1%	1%	1%	1%	1%
grade 5 events	8533	8669	7781	9171	8926
	4%	4%	3%	4%	4%
grade 6 events	4680	5269	4190	4680	5232
	2%	2%	1%	2%	2%
grade 7 events	152575	152598	172600	168955	172911
	75%	78%	80%	78%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	49.217228	49.224855972643	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.381205	41.357932691868	Alternating exposures requested	N	N
[deg] Pointing Roll	256.648843	256.84701209841	[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)	220169081.184000	220168051.79041			
Observation start date	2004-12-23T06:03:37	2004-12-23T05:47:31			
[s] Observation end time (MET)	220194391.184000	220194845.29162			
Observation end date	2004-12-23T13:05:27	2004-12-23T13:14:05			
Read mode	TIMED	TIMED			

2.3 Aspect





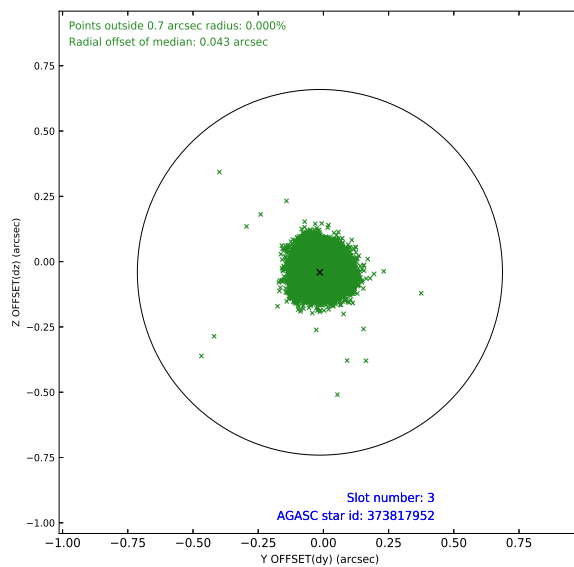
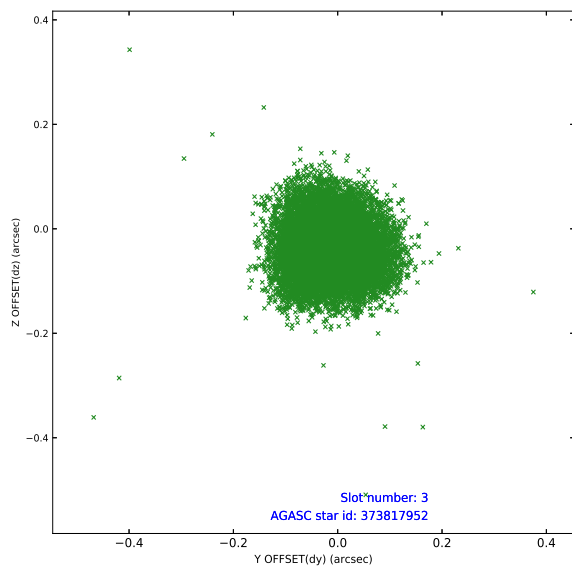
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-4	7.17	6218	1.000	0.181	0.019	0.008	0.014	0.000000	0.000000	2151.95	1066
1	FID		ACIS-I-5	7.23	6219	1.000	-0.307	0.008	0.006	0.011	0.000000	0.000000	-1816.34	1064
2	FID		ACIS-I-6	7.25	6217	1.000	0.026	0.040	0.009	0.015	0.000000	0.000000	397.25	1708
3	GUIDE	used	373817952	8.74	12436	1.000	-0.013	-0.041	0.082	0.126	49.913424	40.978510	966.37	2174
4	GUIDE	used	374345008	9.37	12426	1.000	0.009	-0.176	0.090	0.148	48.768668	41.619367	-557.76	-1373
5	GUIDE	used	374355168	8.56	12430	1.000	-0.068	-0.187	0.071	0.113	48.517523	41.466988	128.48	-1909
6	GUIDE	used	373831072	9.47	12425	1.000	0.204	0.255	0.095	0.153	49.776828	40.594328	2398.55	2141
7	GUIDE	used	376070040	8.41	12431	1.000	-0.127	0.151	0.078	0.130	50.072031	41.897206	-2347.17	1797

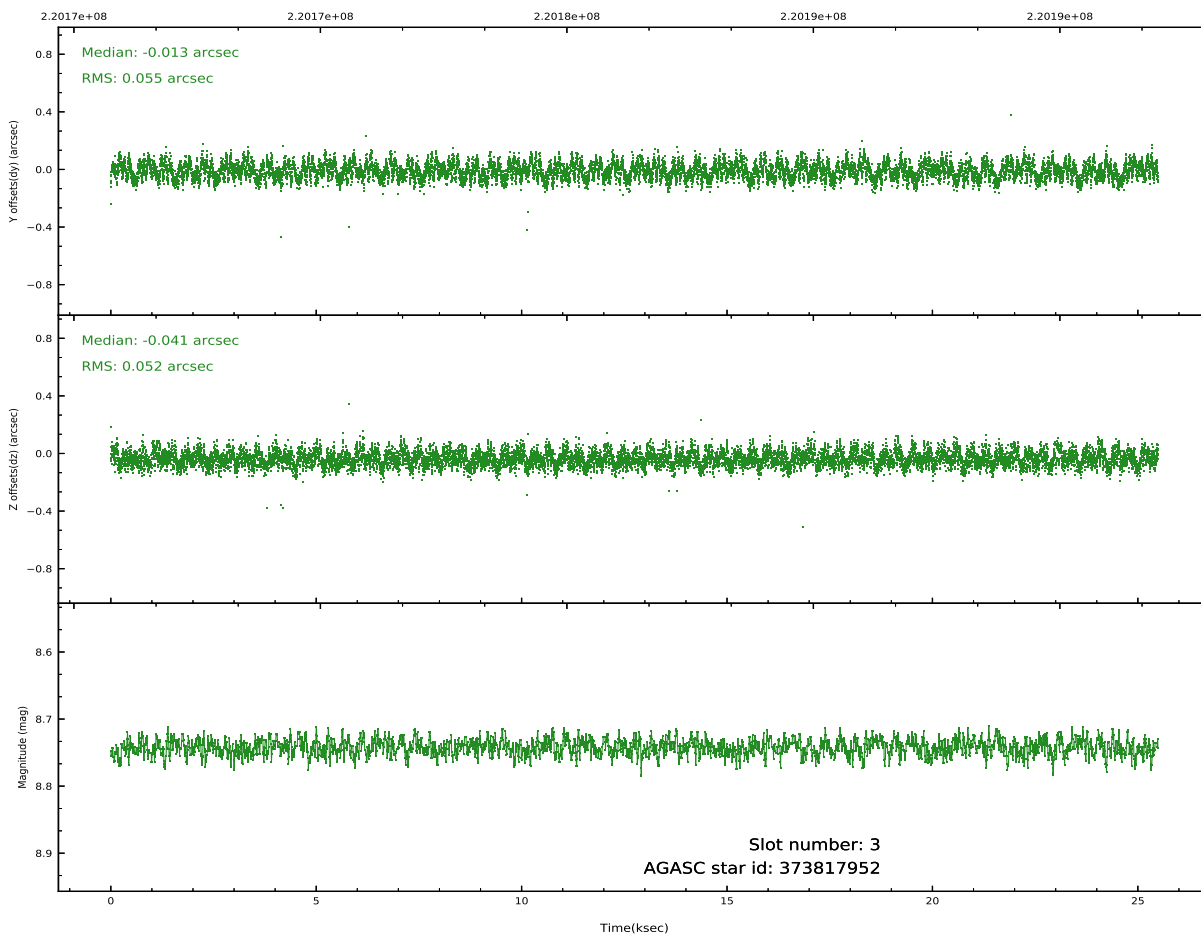
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2.4 Star Slots

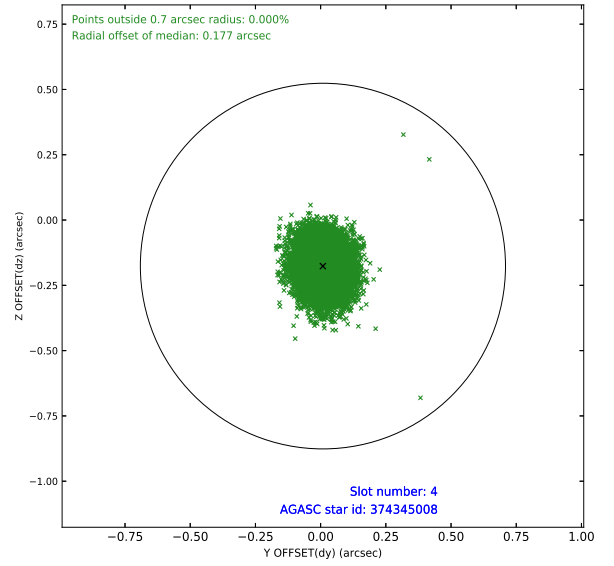
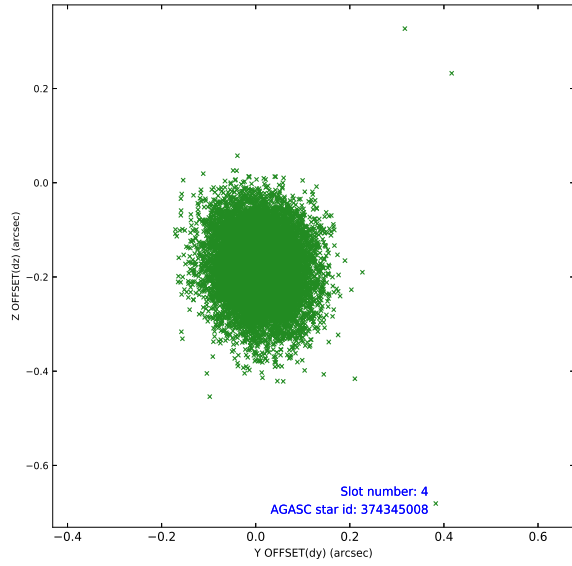
2.4.1 Slot 3



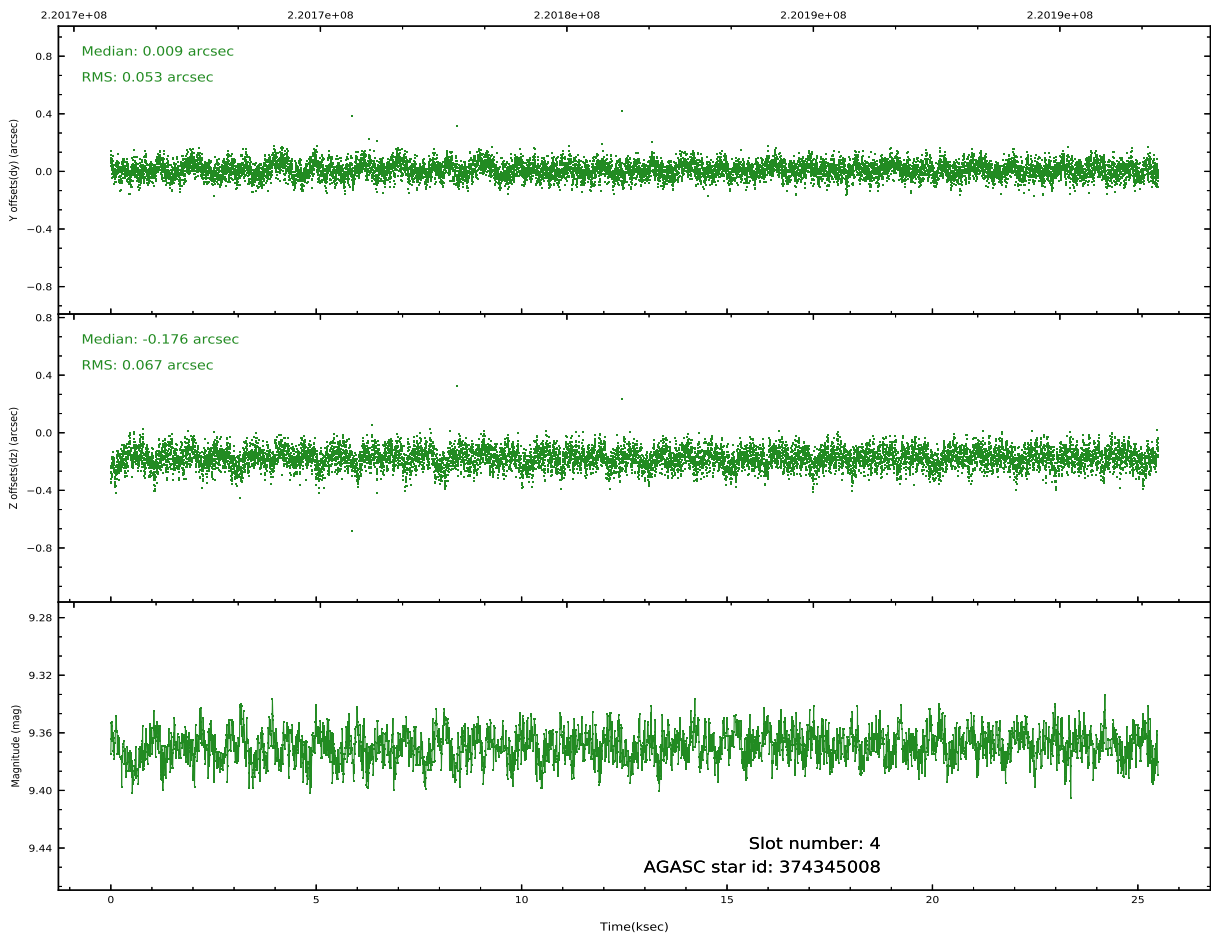
Time (s)



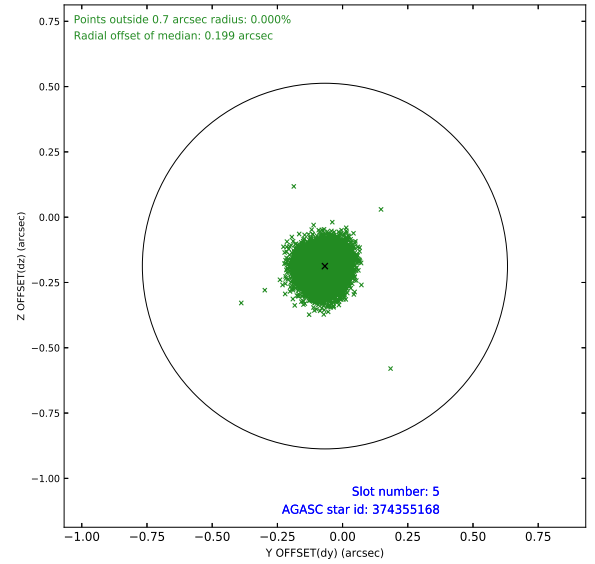
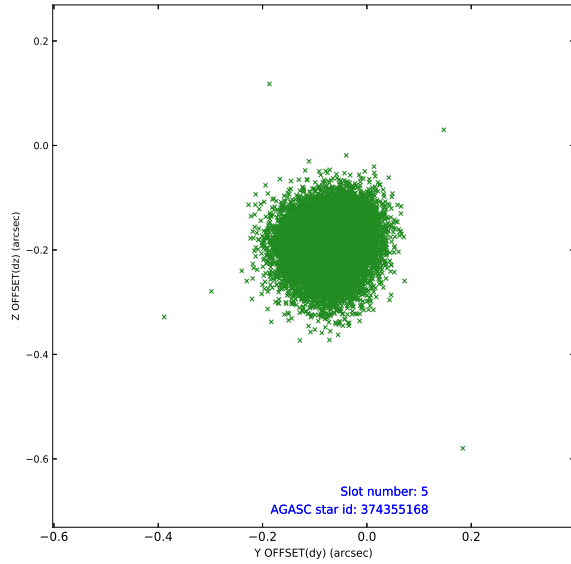
2.4.2 Slot 4



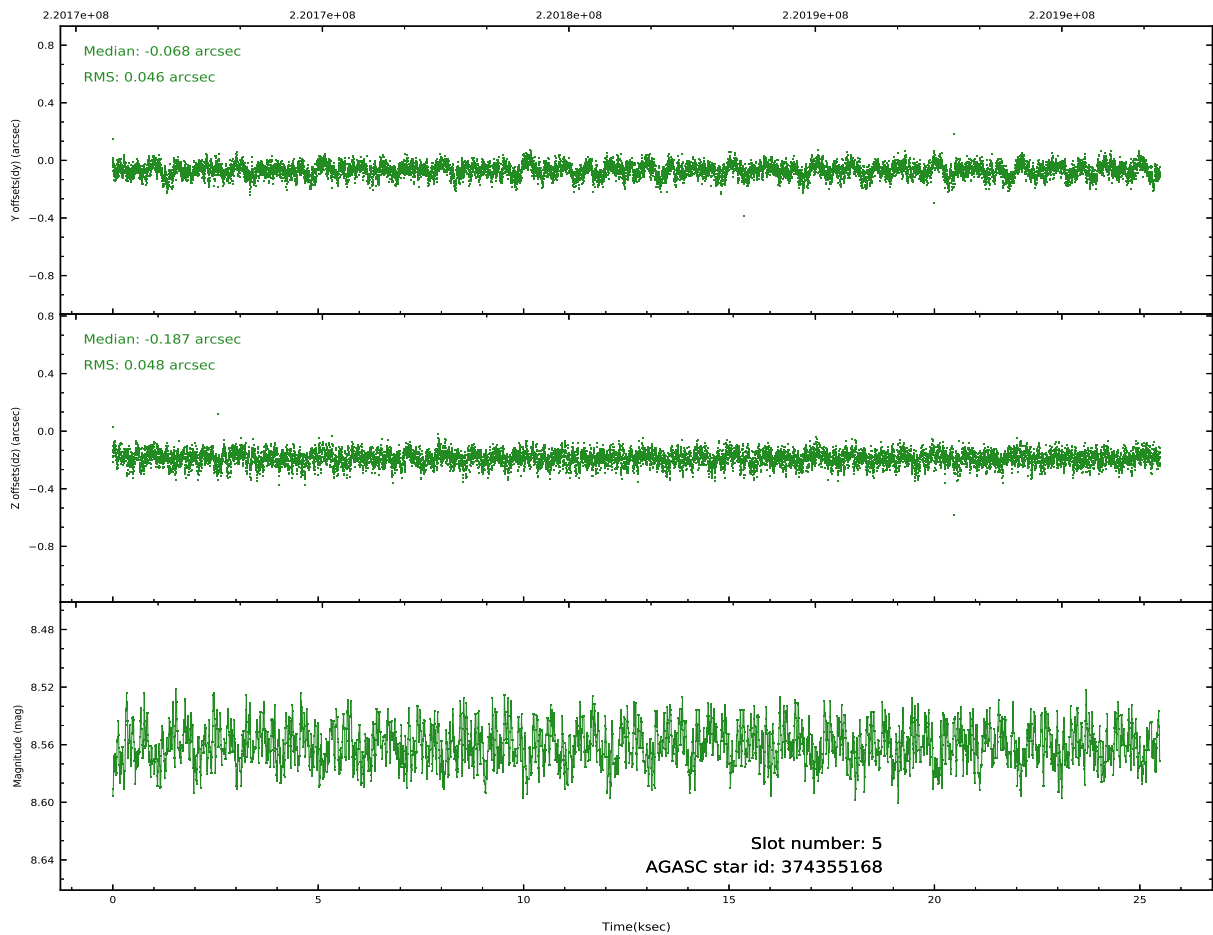
Time (s)



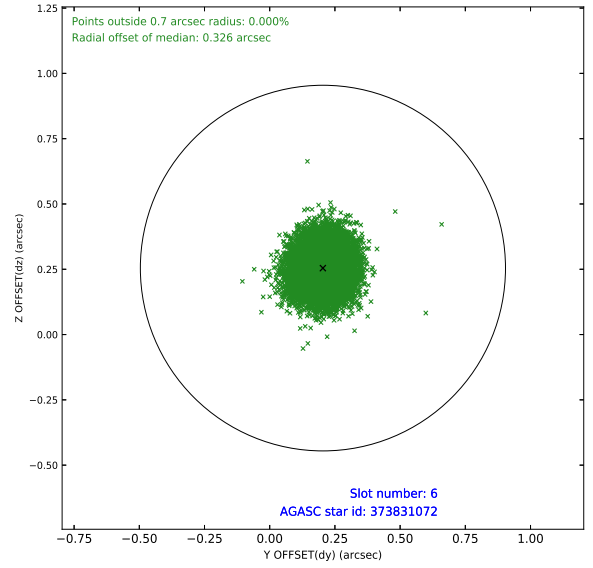
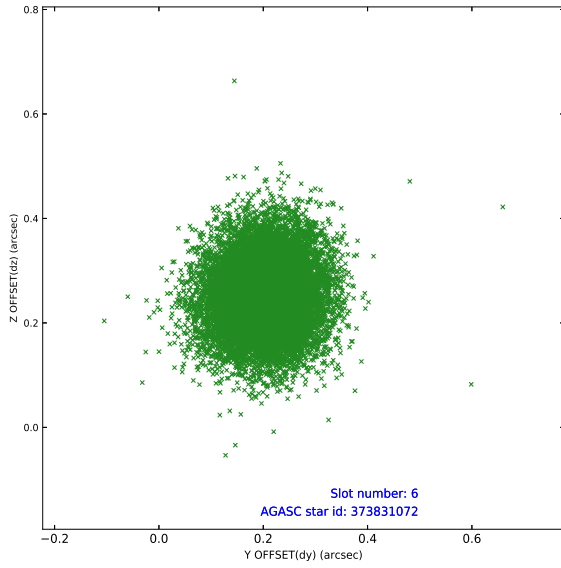
2.4.3 Slot 5



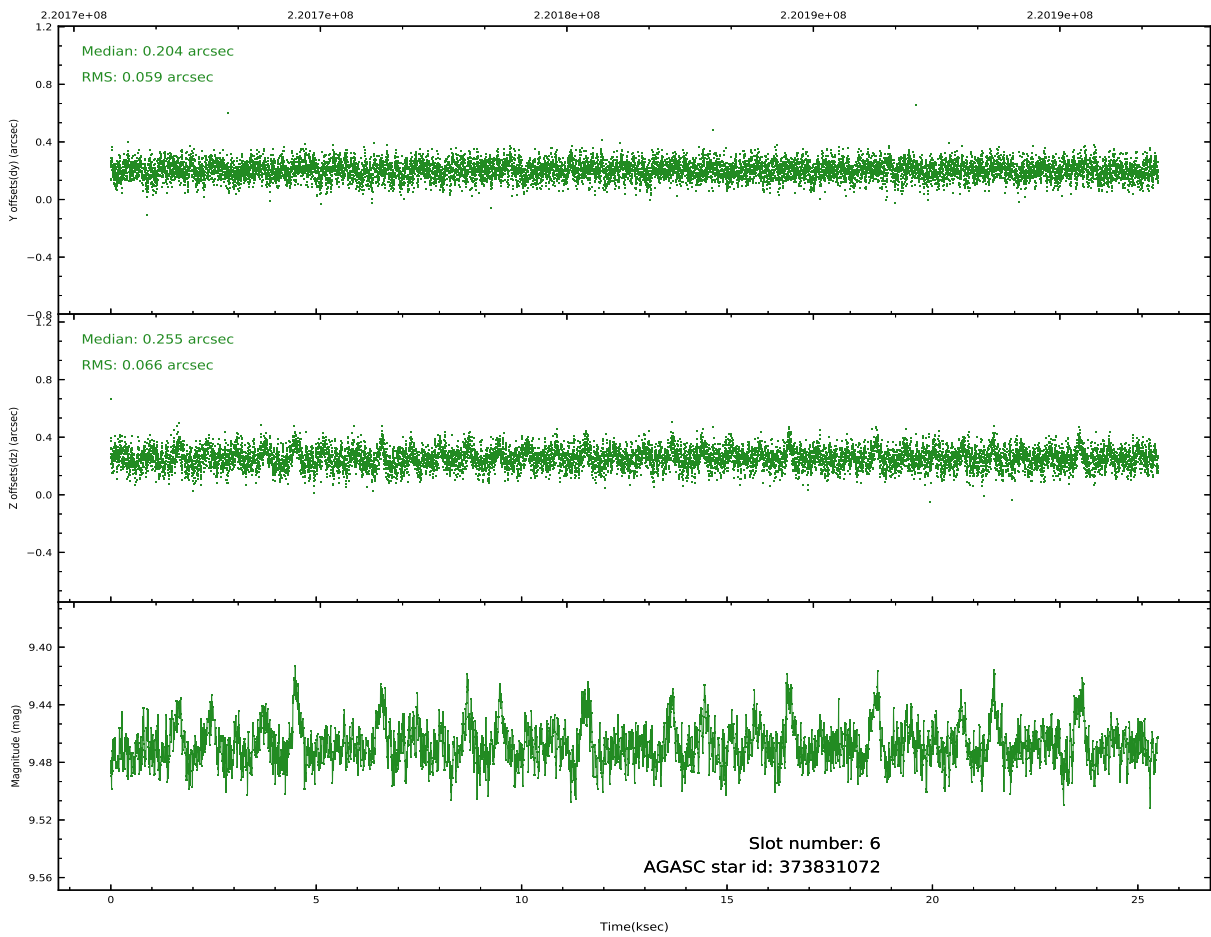
Time (s)



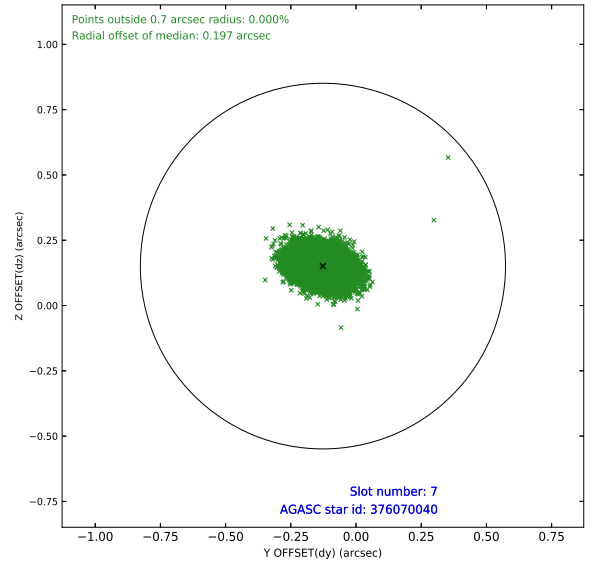
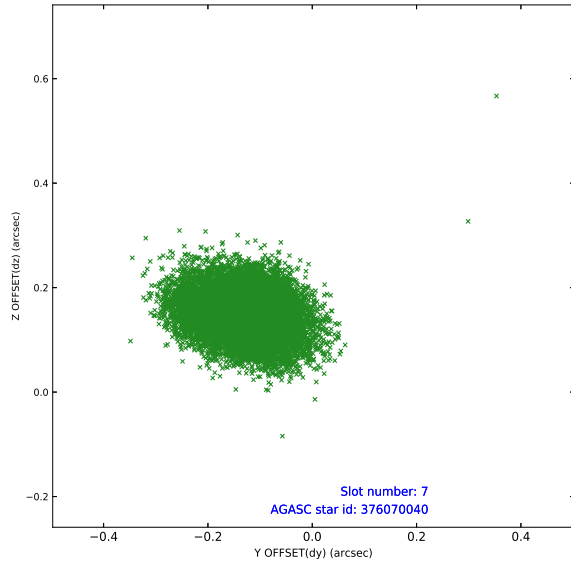
2.4.4 Slot 6



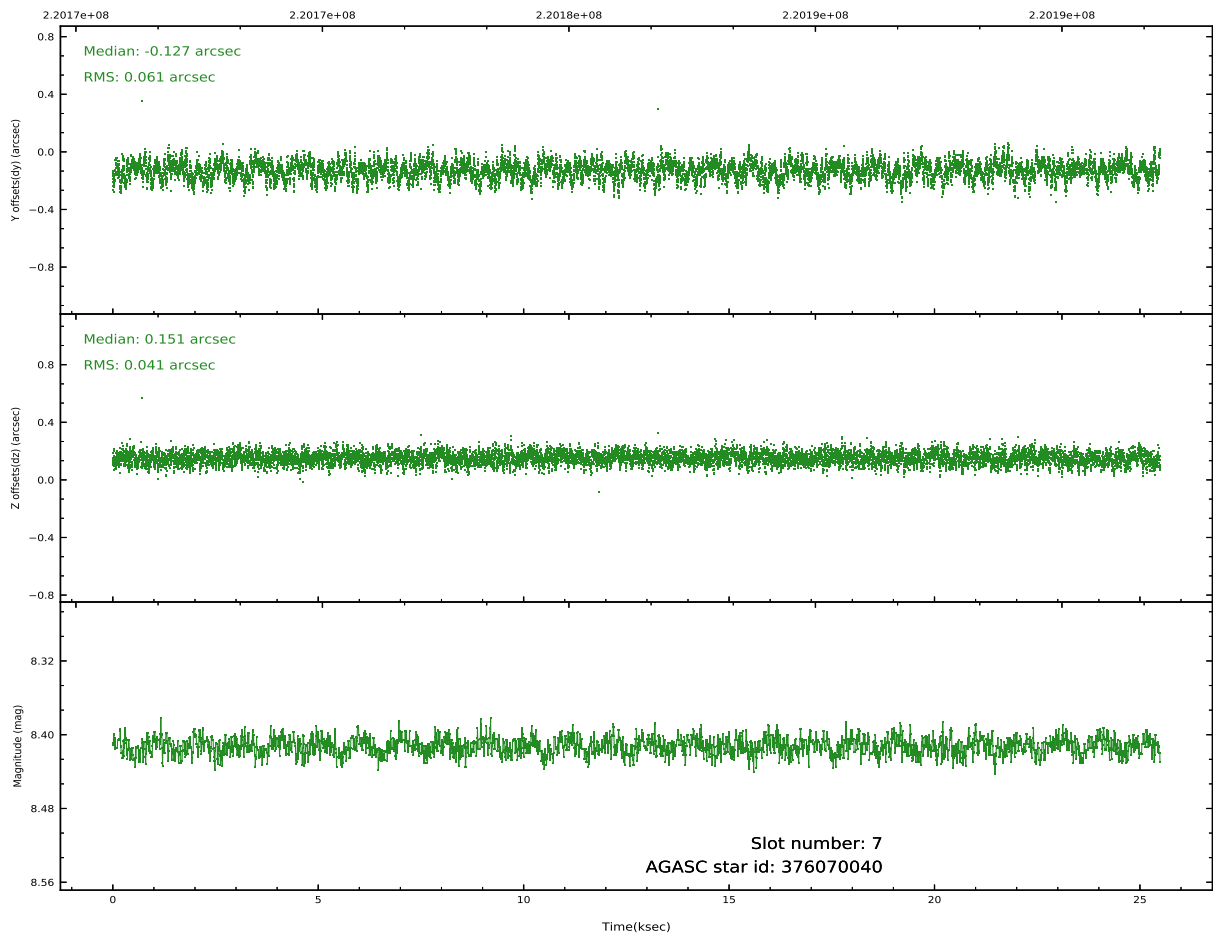
Time (s)



2.4.5 Slot 7

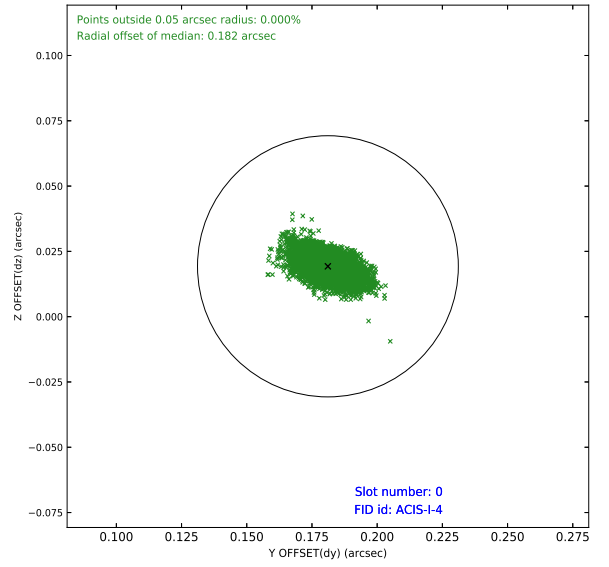
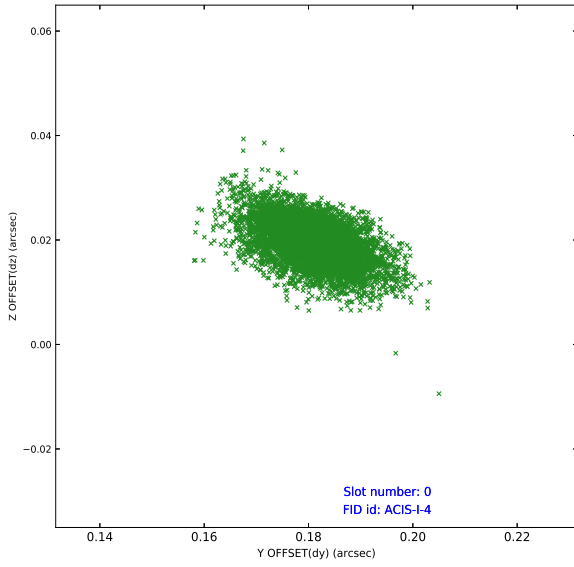


Time (s)

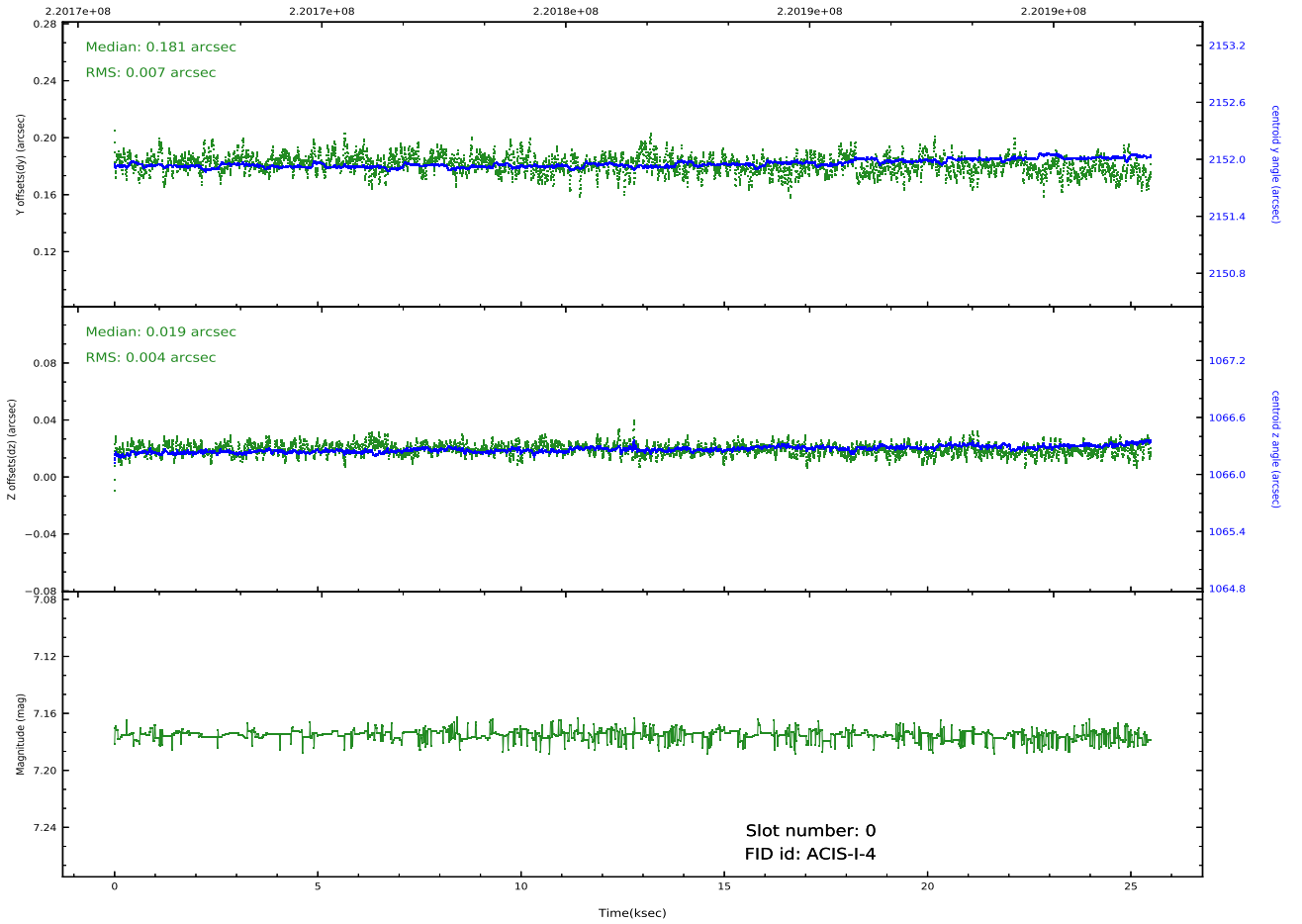


2.5 FID Slots

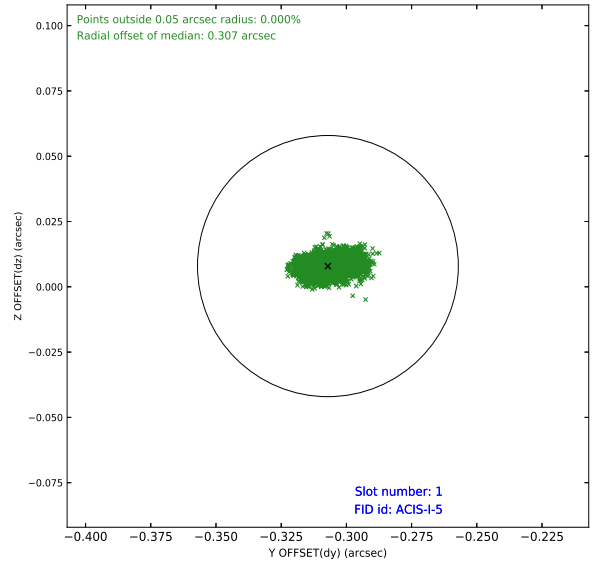
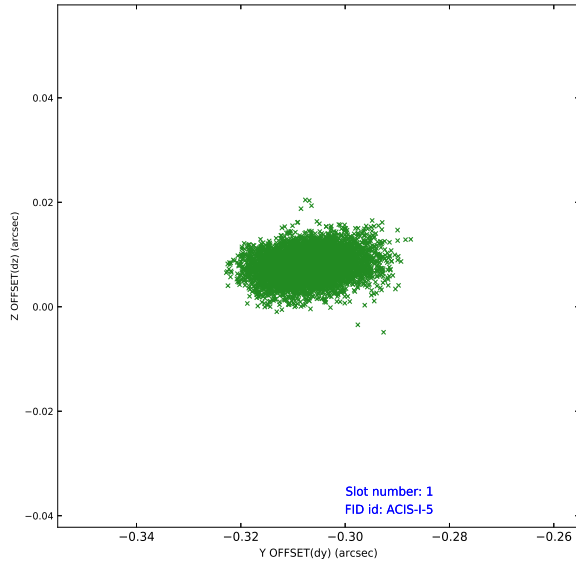
2.5.1 Slot 0



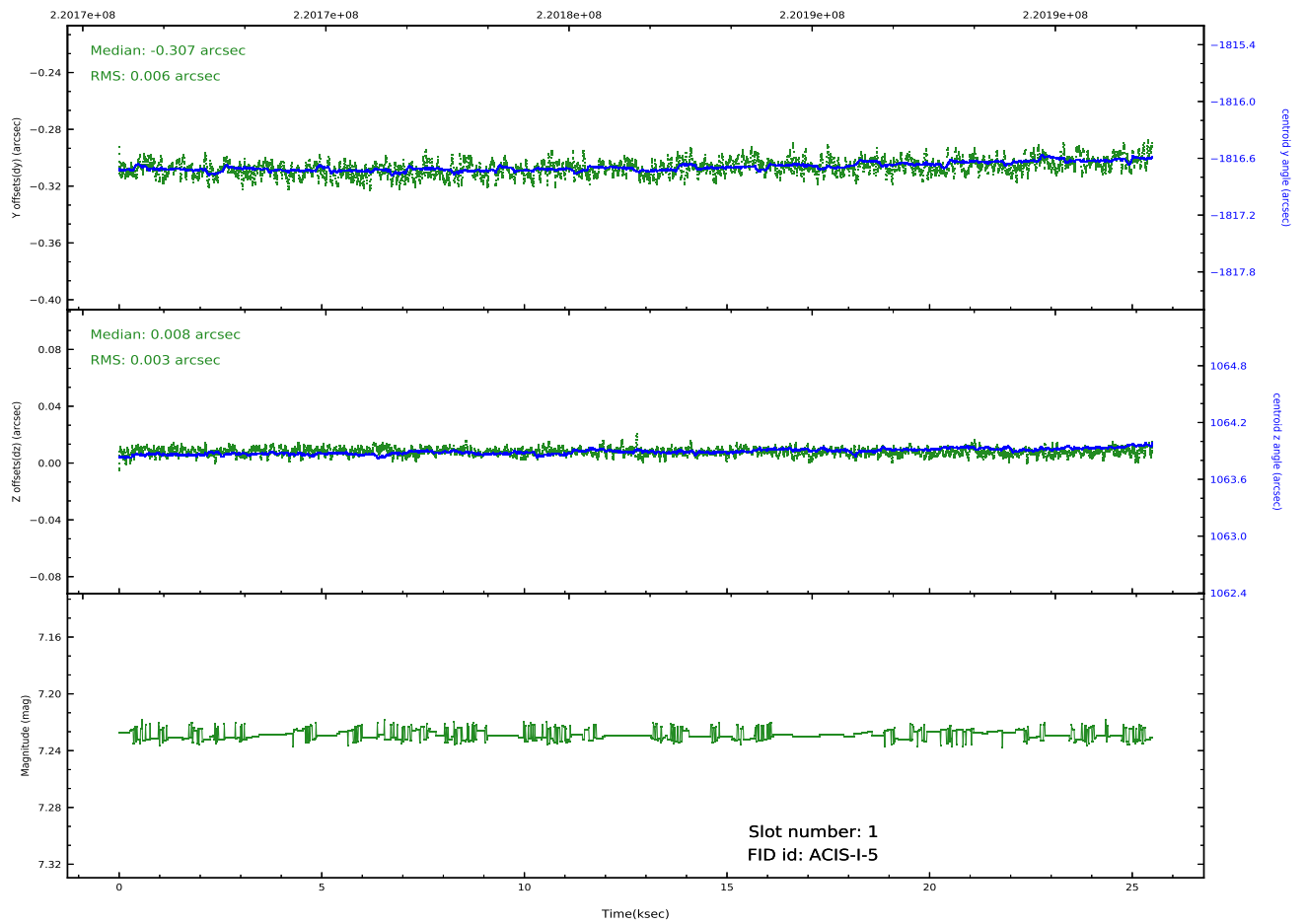
Time (s)



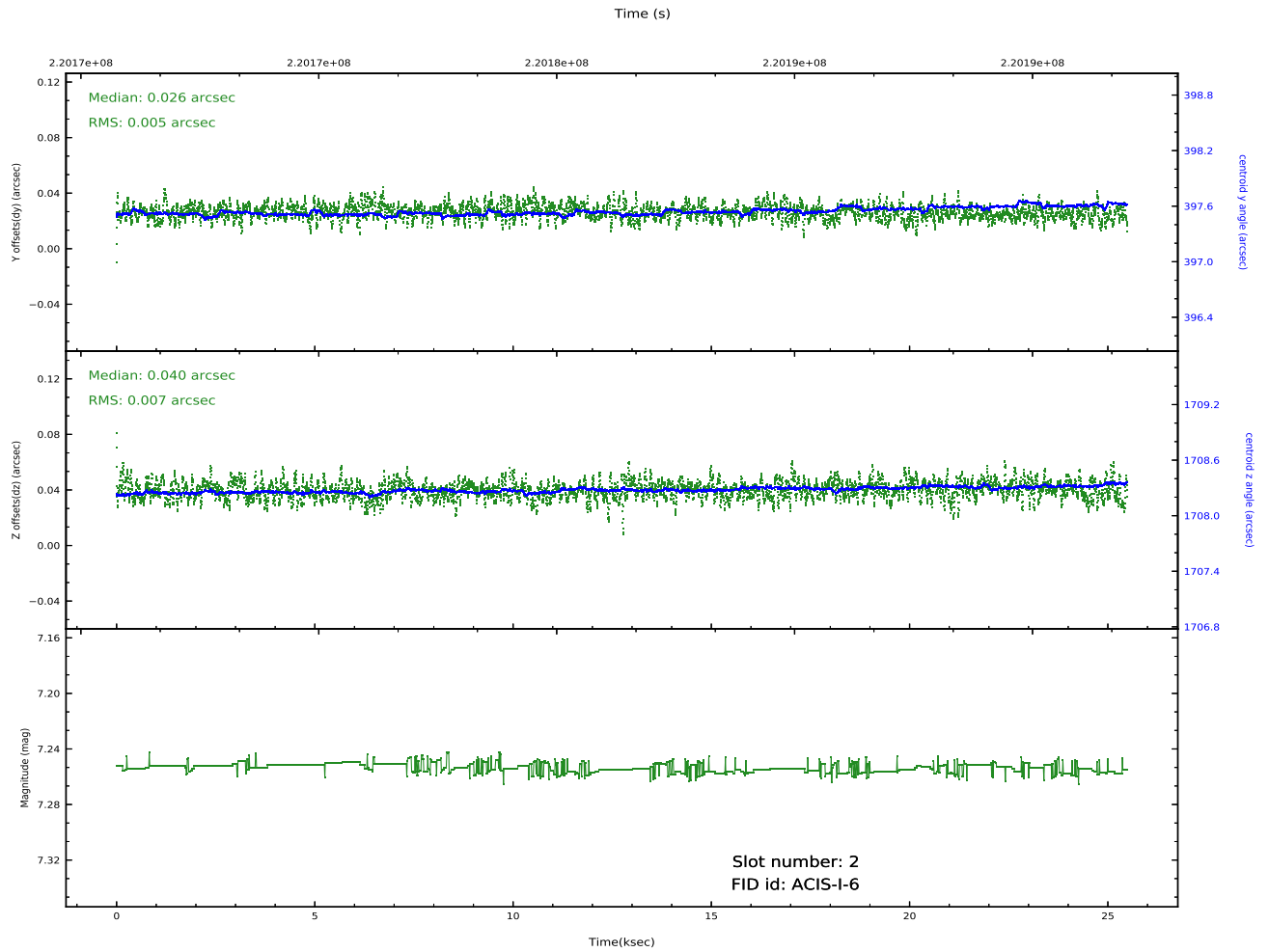
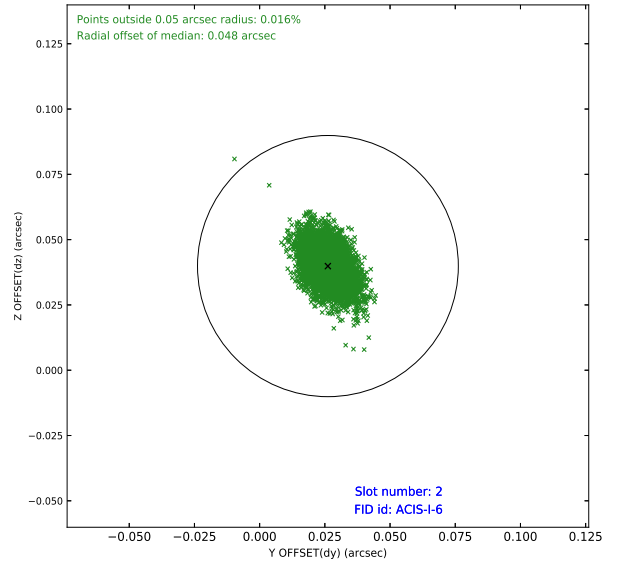
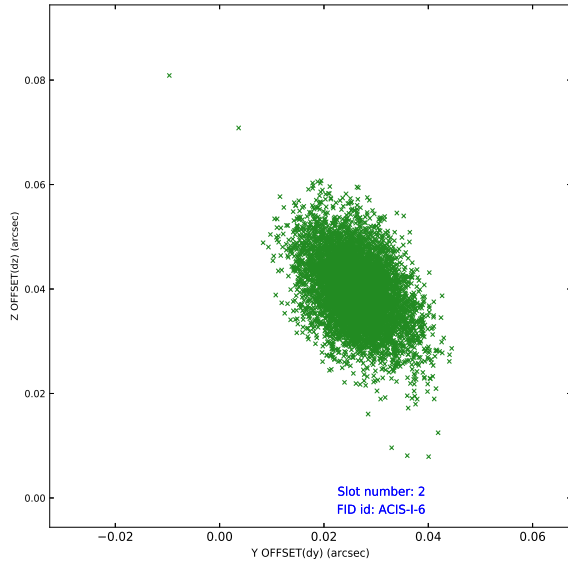
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.48819

A.2 Comments