

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5301 - L2 Version 4
Chandra X-Ray Center

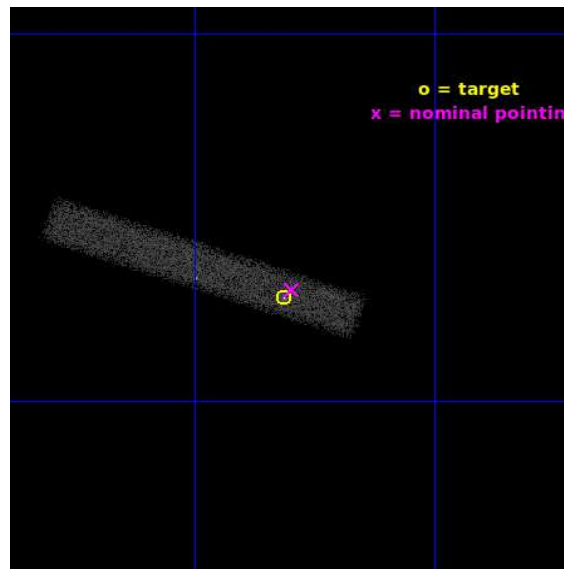
L2 Processing Date : Sep 24 2020

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1 Front

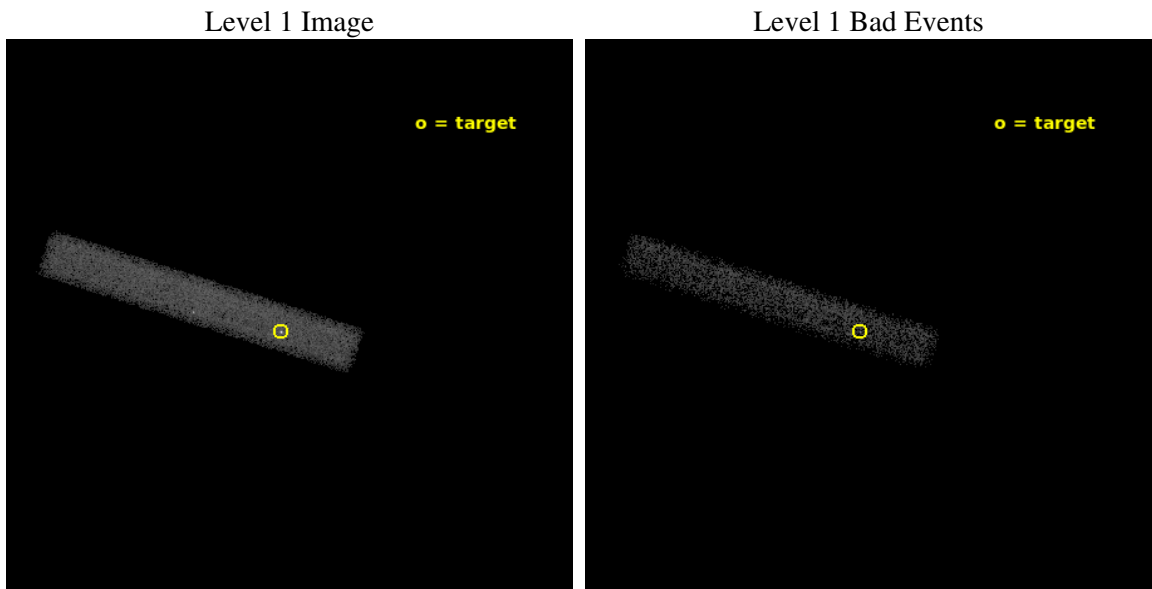
seq_num	701013	Sequence number
obs_id	5301	Observation id
title	Multiwavelength Reverberation Mapping of NGC 4395, the Least Luminous Seyfert 1 Galaxy	Proposal title
observer	Edward Moran	Principal investigator
object	NGC 4395	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.453333	Observer's specified target RA [deg]
dec_targ	33.546944	Observer's specified target Dec [deg]
ra_nom	186.44928352564	Nominal RA [deg]
dec_nom	33.550587426217	Nominal Dec [deg]
roll_nom	198.39890835913	Nominal Roll [deg]
revision	4	Processing version of data
ontime	29730.400442988	Sum of GTIs [s]
liveltime	26963.903902583	Livetime [s]
ontime7	29730.400442988	Sum of GTIs [s]
l2events	20855	Number of level 2 events



2 OBI

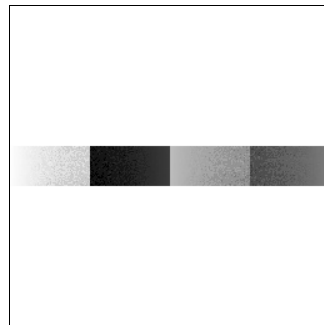
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29570.491000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	29730.400442988	Sum of GTIs [s]
caldbver	4.9.2	 	ontime7	29730.400442988	Sum of GTIs [s]
date	2020-09-25T01:59:24	Date and time of file creation	l1events	43397	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

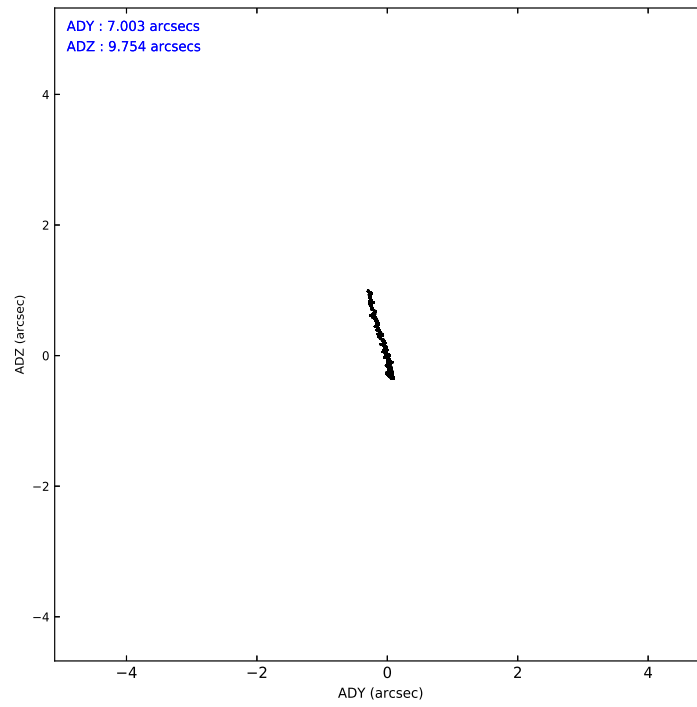
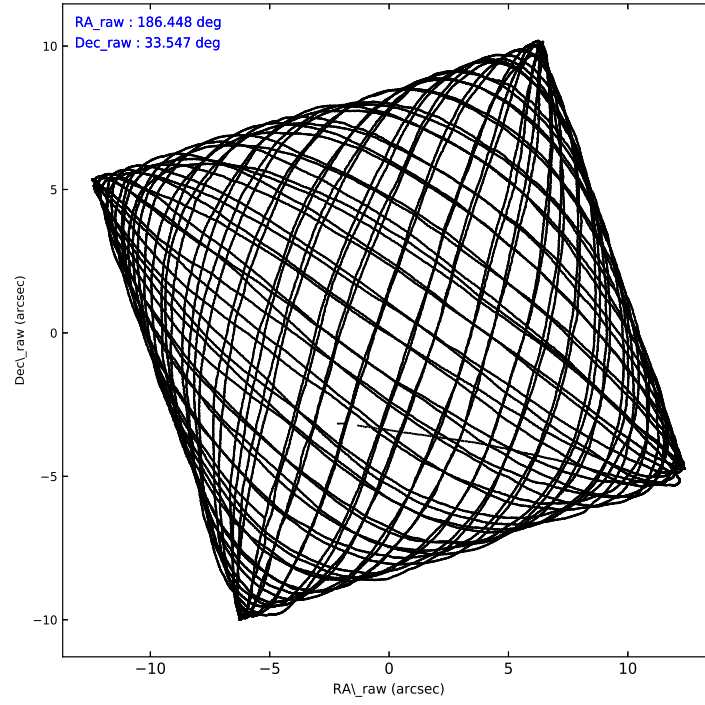
	ccd 7
level 1 events	43397
rejected events	21839
rejected %	50%

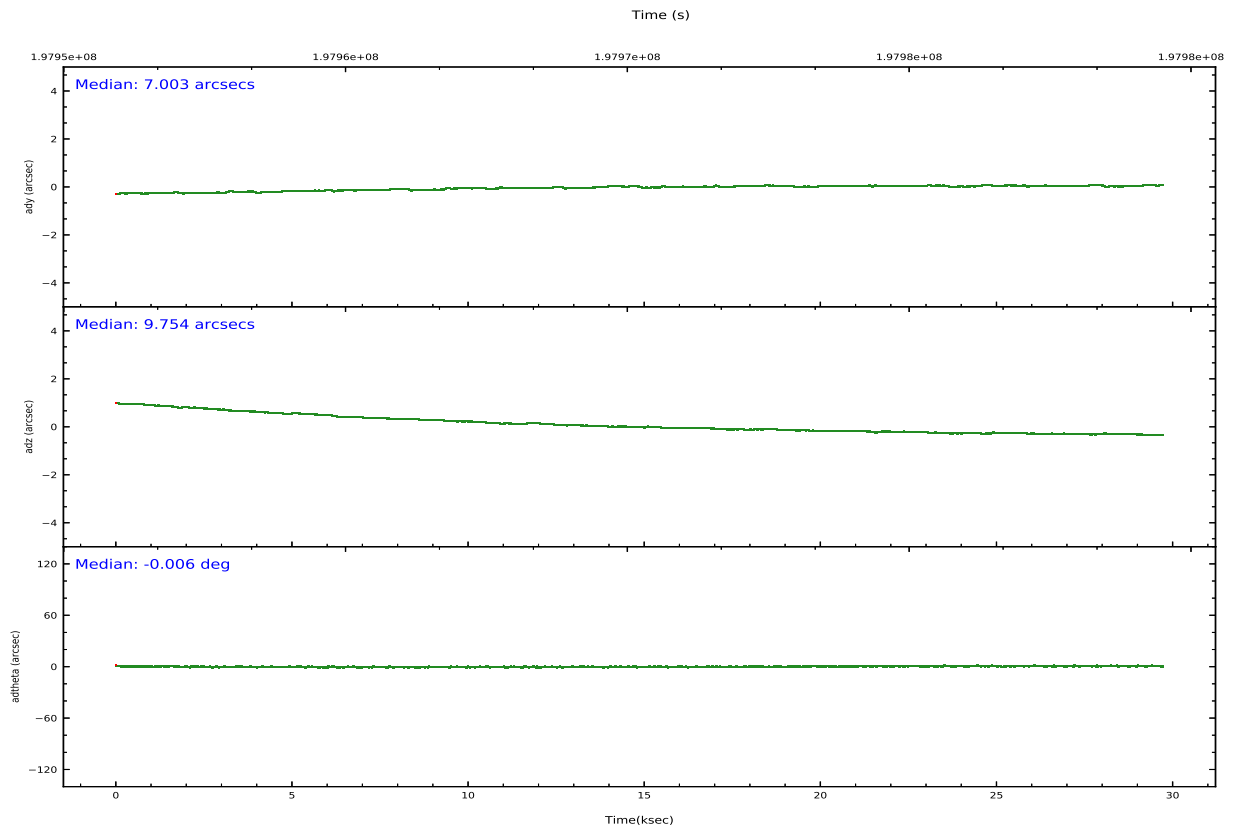
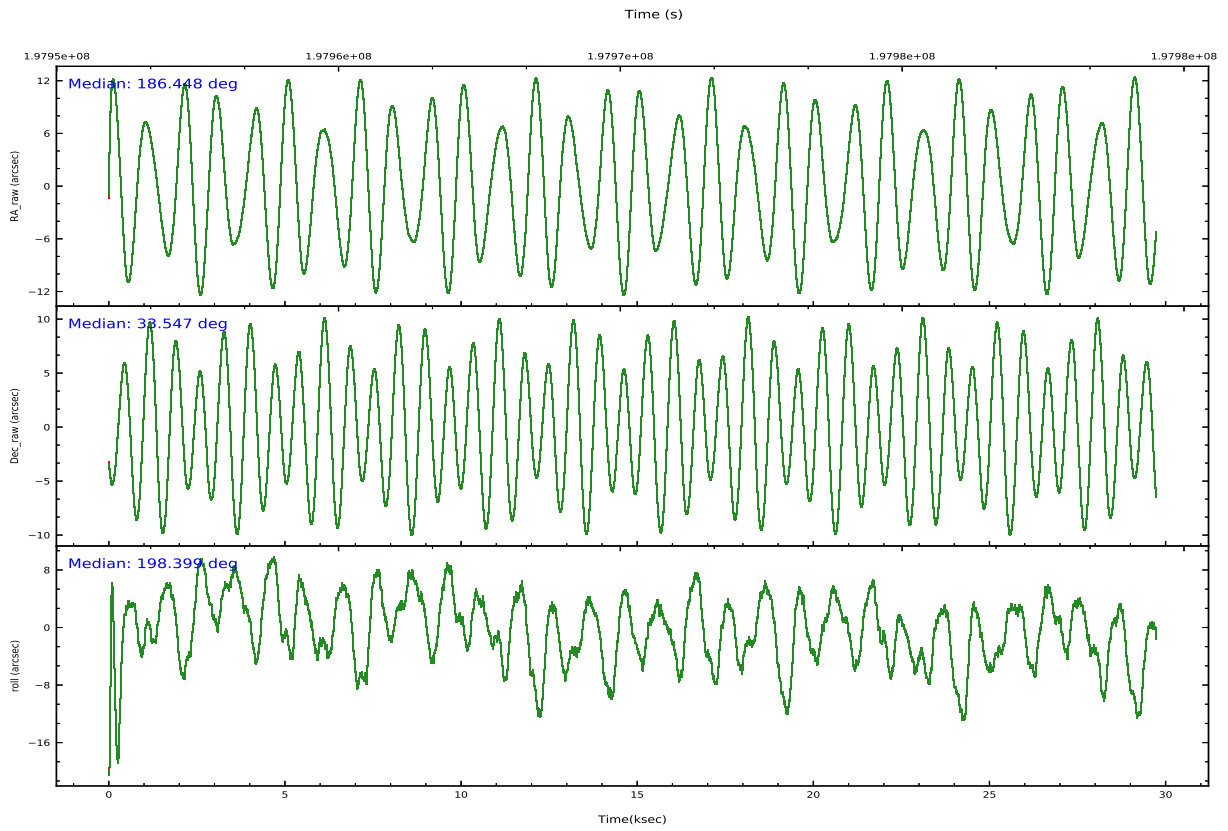
	ccd 7
grade 0 events	2891
	6%
grade 1 events	41
	0%
grade 2 events	4432
	10%
grade 3 events	2893
	6%
grade 4 events	2660
	6%
grade 5 events	3687
	8%
grade 6 events	9441
	21%
grade 7 events	17352
	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	186.469494	186.44928352564	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	33.567871	33.550587426217	Subarray start row	449	449
[deg] Pointing Roll	198.223663	198.39890835913	Subarray row count	128	128
[s] Window start time (MET)	197939164.184000	197939164.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	197995684.184000	197995684.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	197953639.184000	197952169.53899			
Observation start date	2004-04-10T03:06:15	2004-04-10T02:42:49			
[s] Observation end time (MET)	197983210.184000	197984329.42791			
Observation end date	2004-04-10T11:19:06	2004-04-10T11:38:49			
Read mode	TIMED	TIMED			

2.3 Aspect





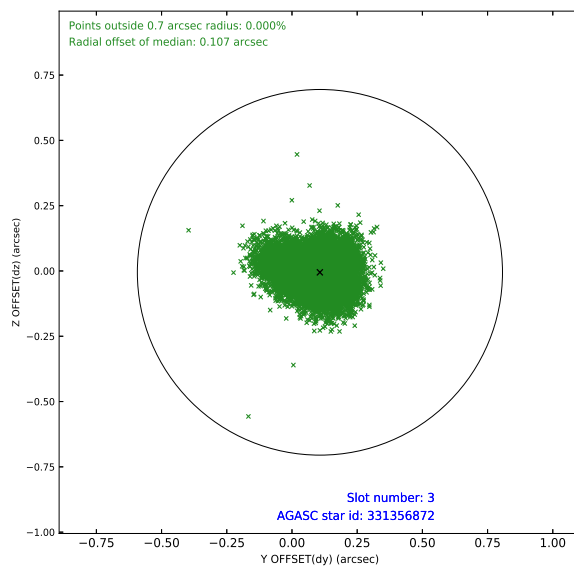
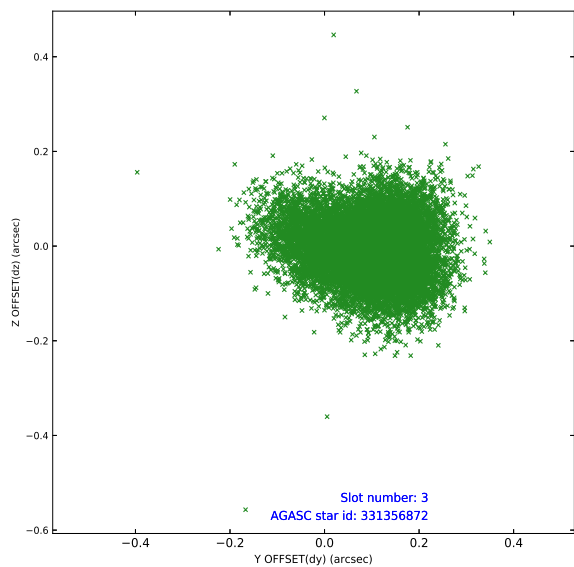
Slot Statistics

	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		ACIS-S-1	7.19	7252	1.000	0.006	-0.046	0.013	0.036	0.000000	0.000000	936.36	-17
	FID		ACIS-S-4	7.21	7252	1.000	0.090	0.032	0.010	0.030	0.000000	0.000000	2153.86	1
	FID		ACIS-S-5	7.24	7251	1.000	-0.122	0.026	0.010	0.016	0.000000	0.000000	-1812.58	1
	GUIDE	used	331356872	9.46	14489	1.000	0.107	-0.005	0.109	0.186	186.232000	33.528992	720.77	-
	GUIDE	used	331359472	9.34	14494	1.000	0.122	0.135	0.105	0.172	187.224794	33.172746	-1719.35	20
	GUIDE	used	331361424	10.42	14490	1.000	0.114	-0.048	0.183	0.329	187.160339	33.746695	-2167.74	
	BAD	used	331361712	10.84	13421	1.000	-0.475	0.072	0.252	0.390	185.925565	32.976353	2225.37	15
	GUIDE	used	331359824	9.90	14494	1.000	0.113	-0.148	0.130	0.212	185.748520	33.293976	2367.09	2

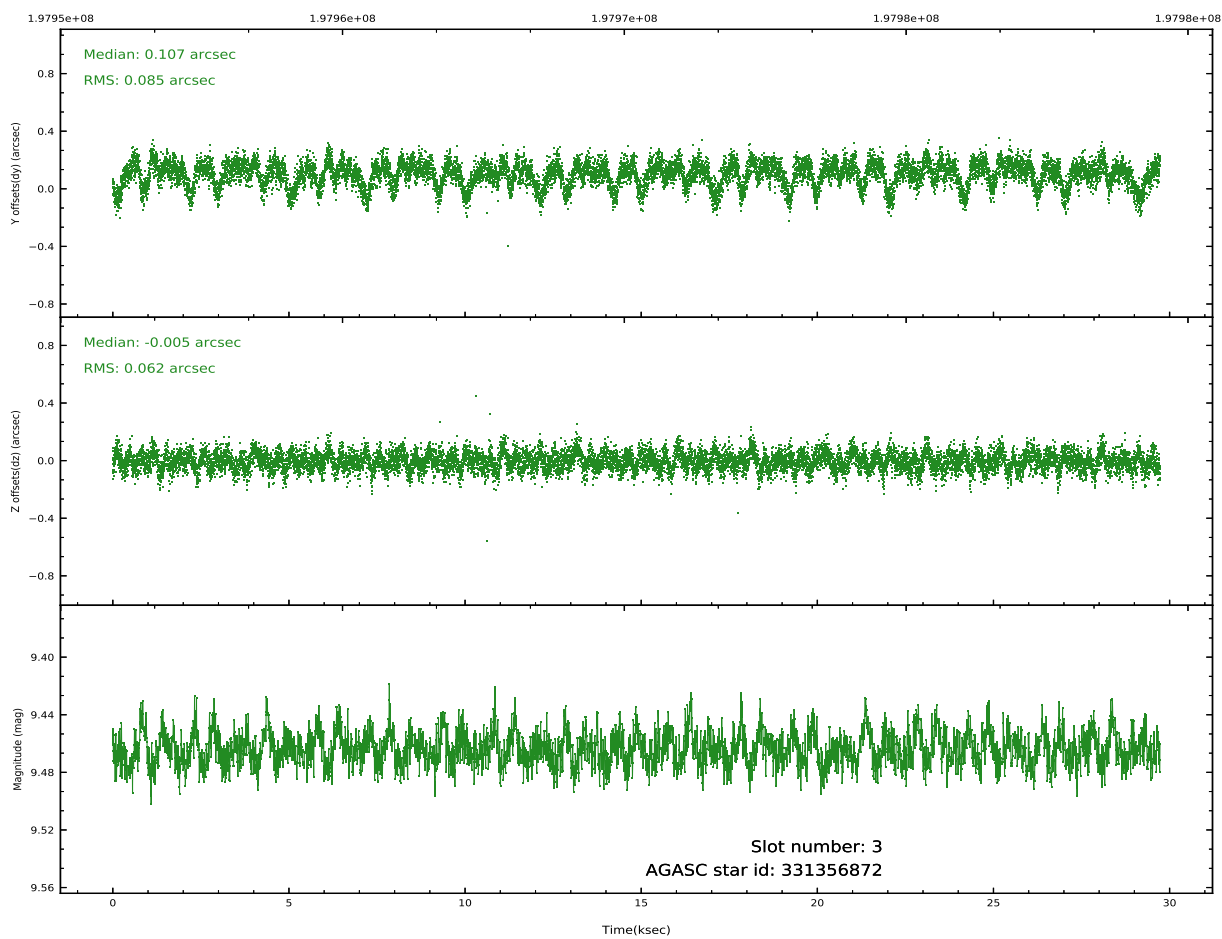
∞

2.4 Star Slots

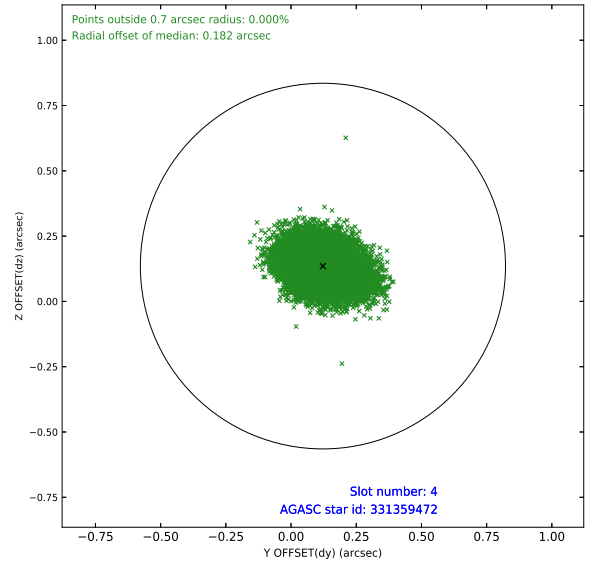
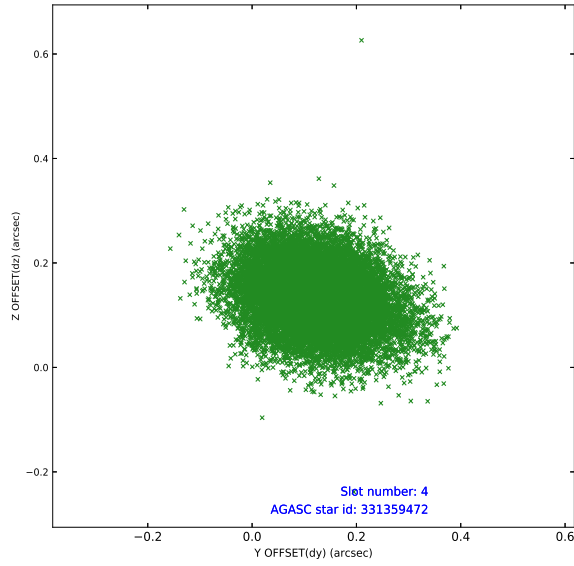
2.4.1 Slot 3



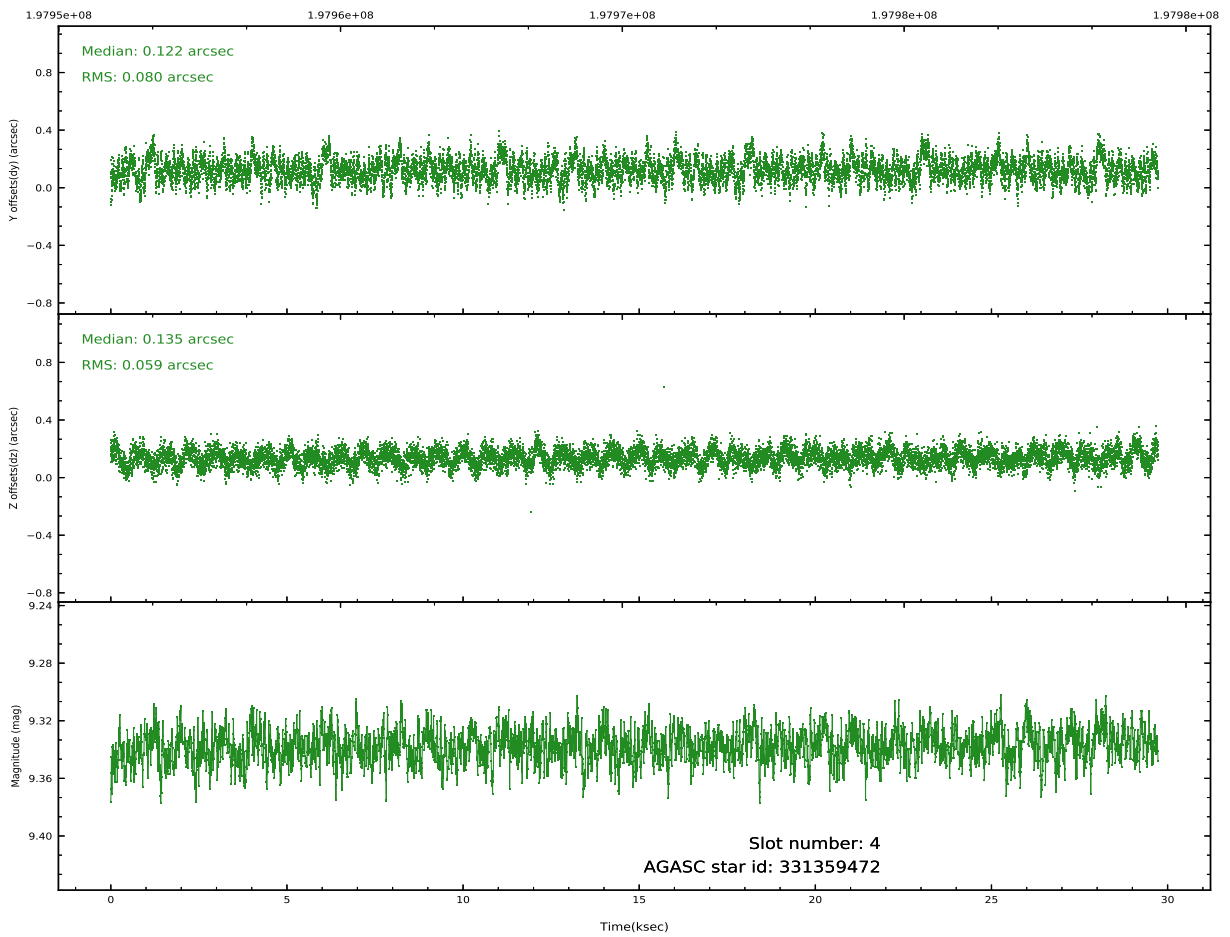
Time (s)



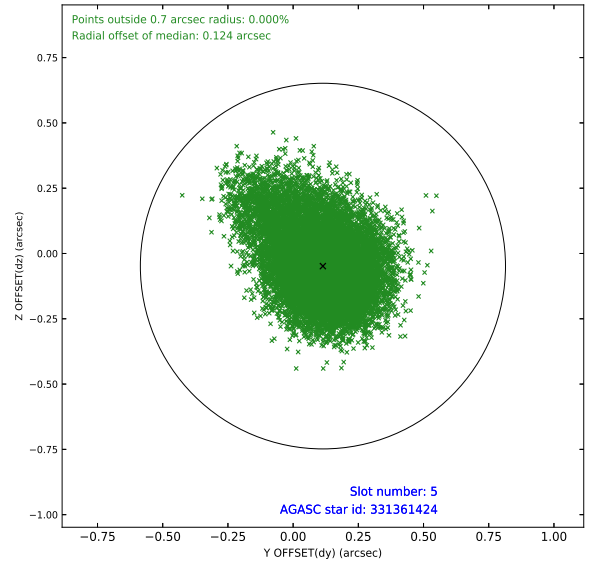
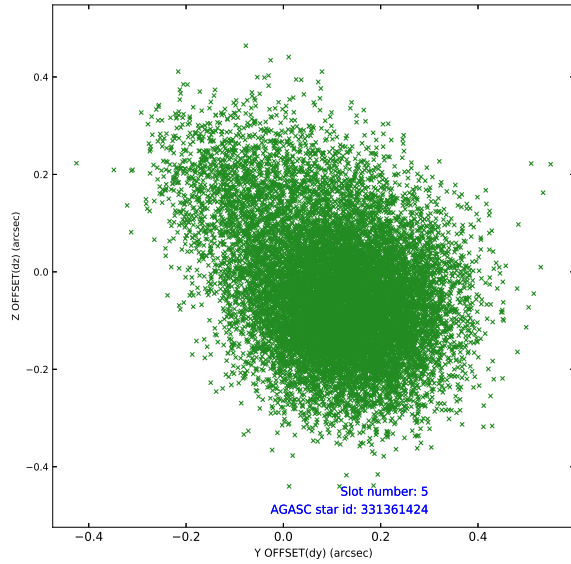
2.4.2 Slot 4



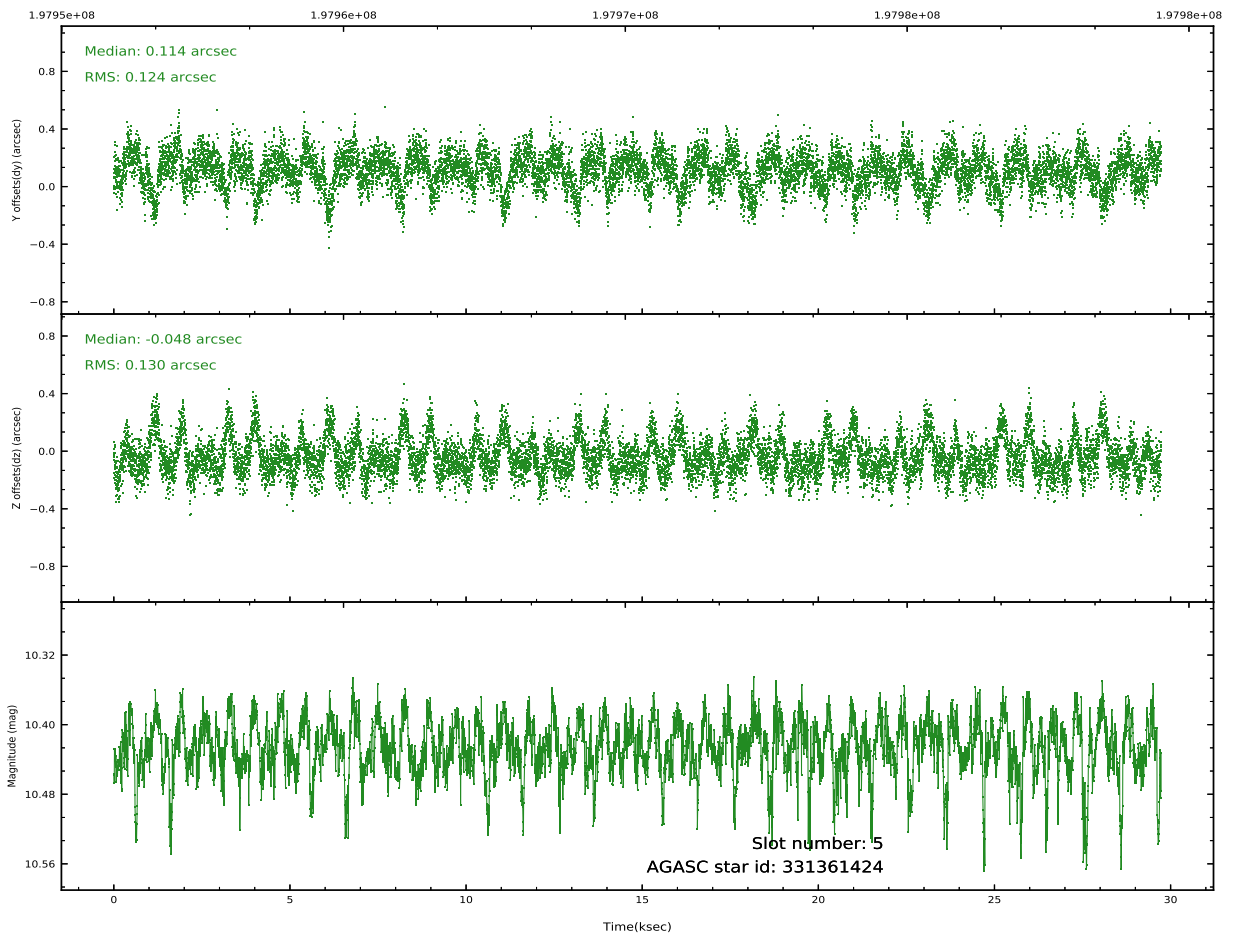
Time (s)



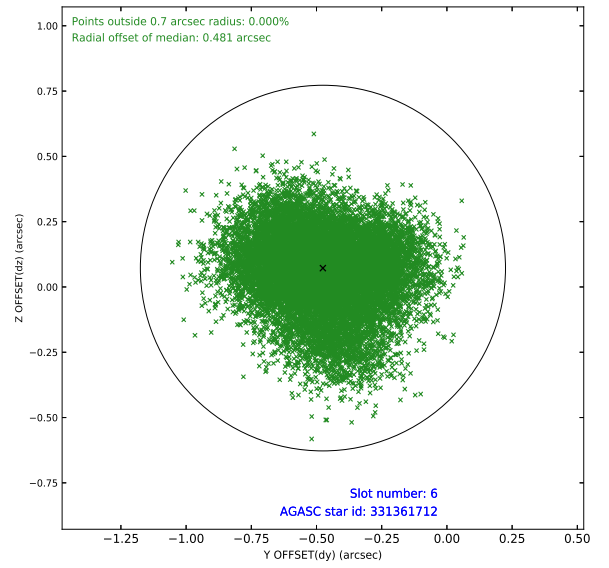
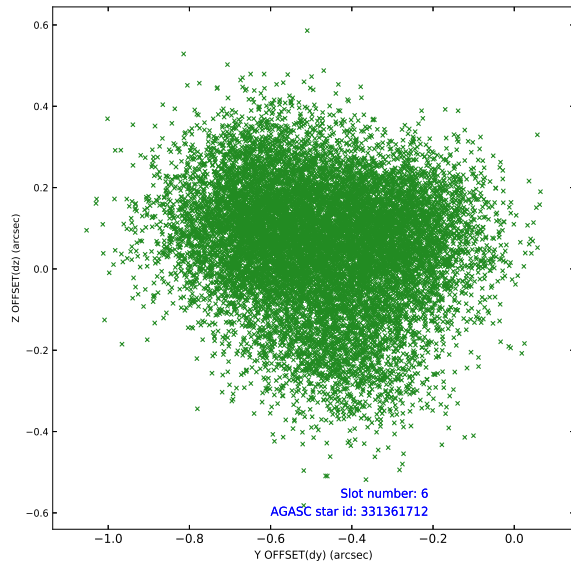
2.4.3 Slot 5



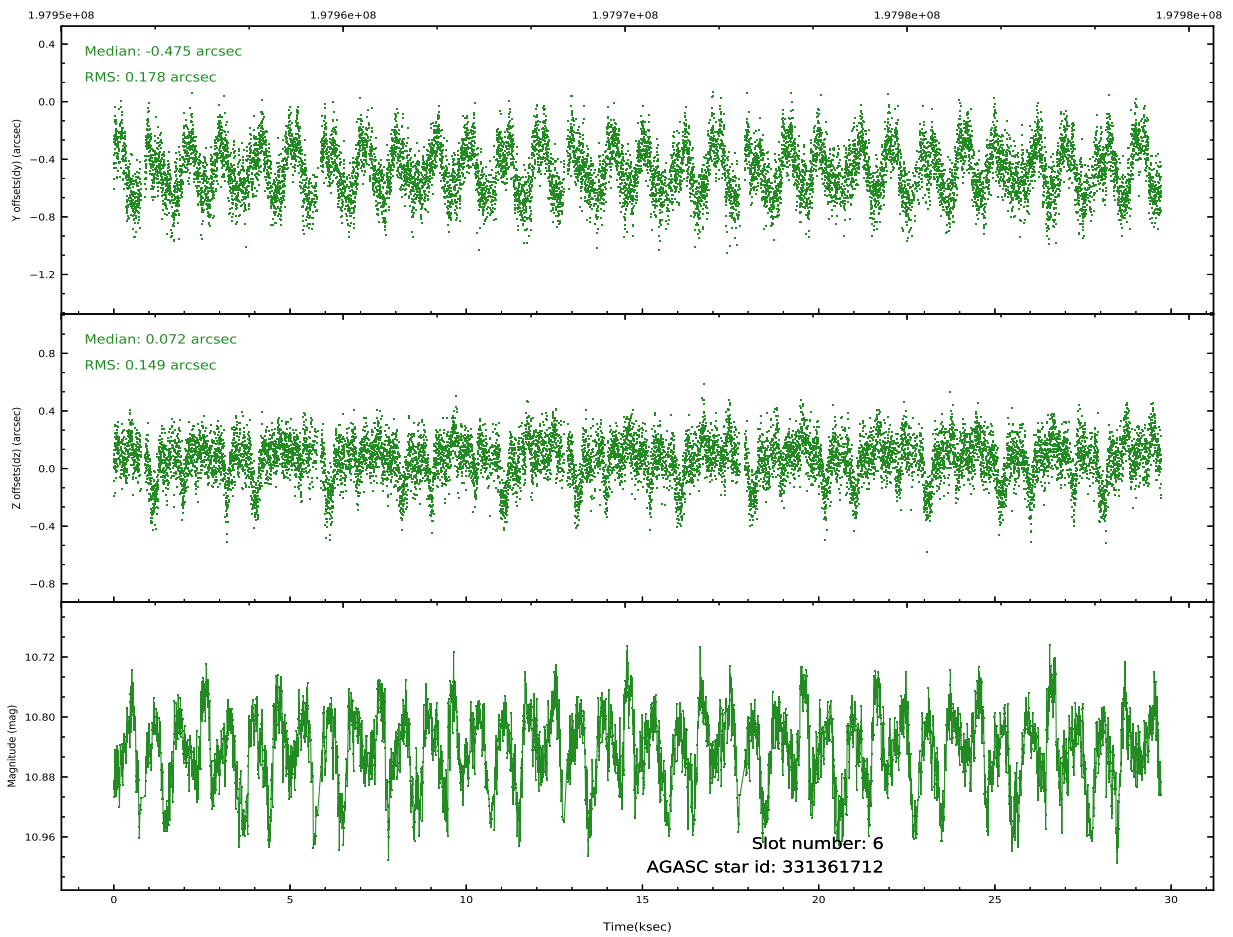
Time (s)



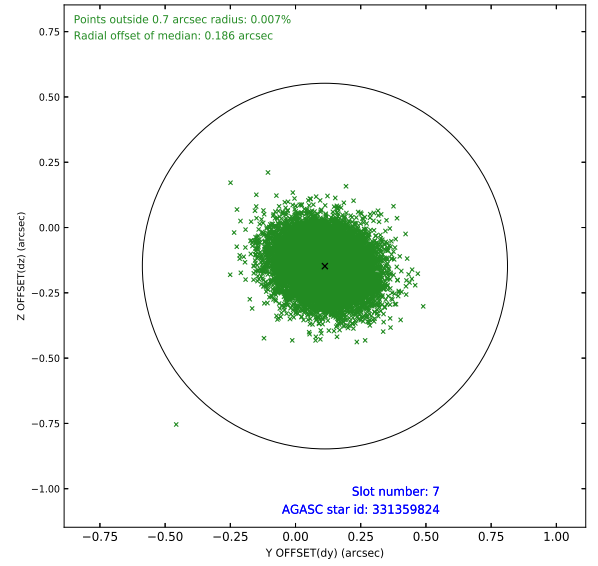
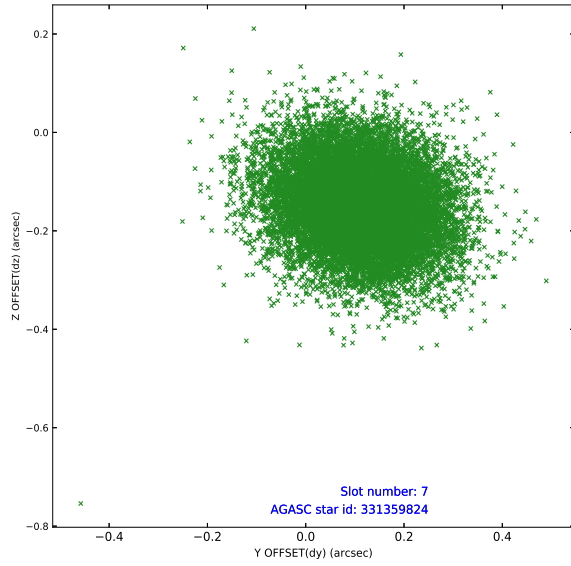
2.4.4 Slot 6



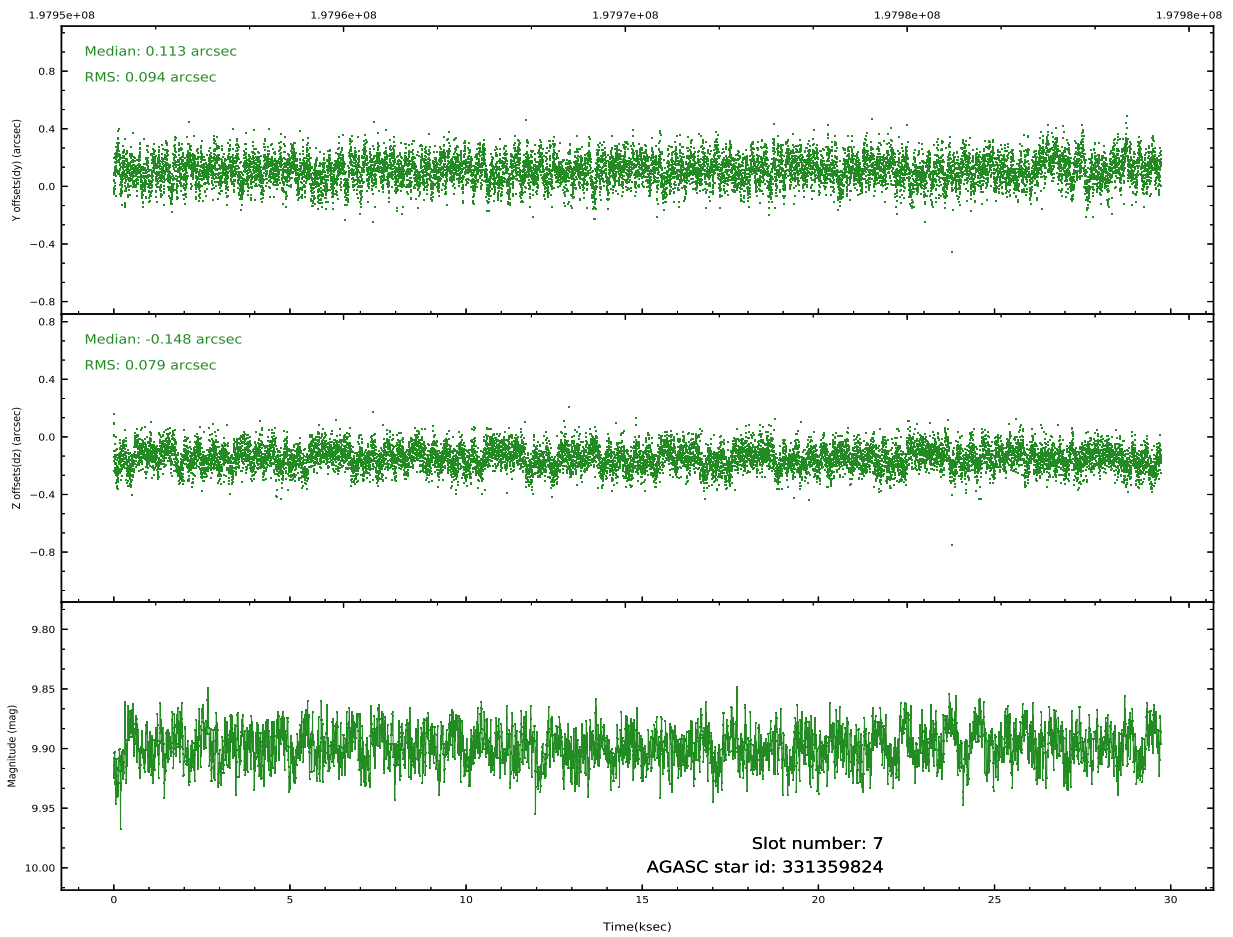
Time (s)



2.4.5 Slot 7

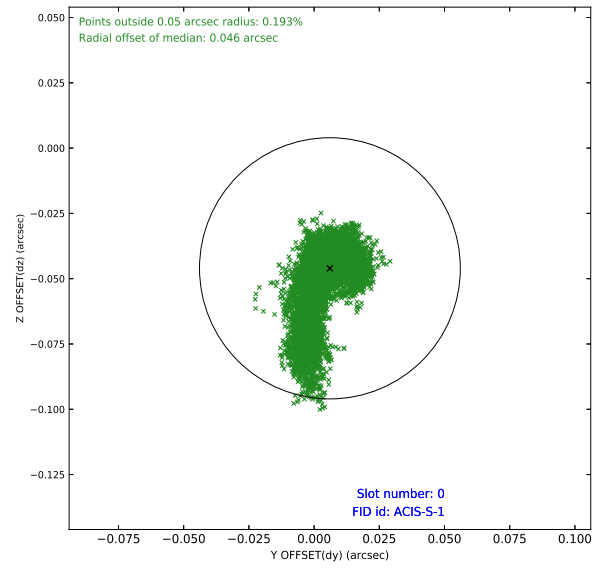
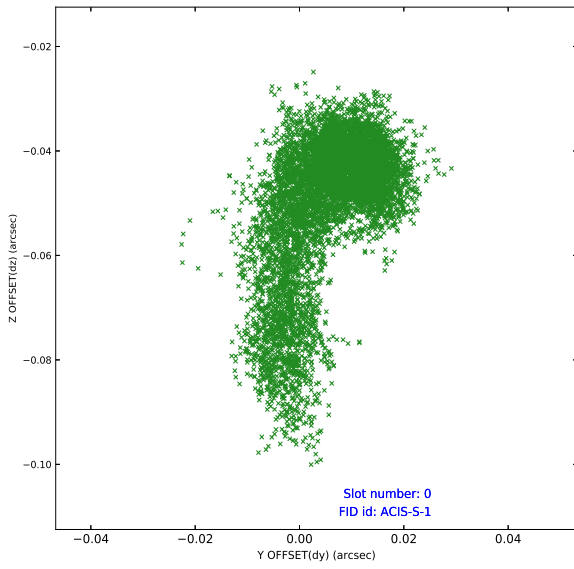


Time (s)

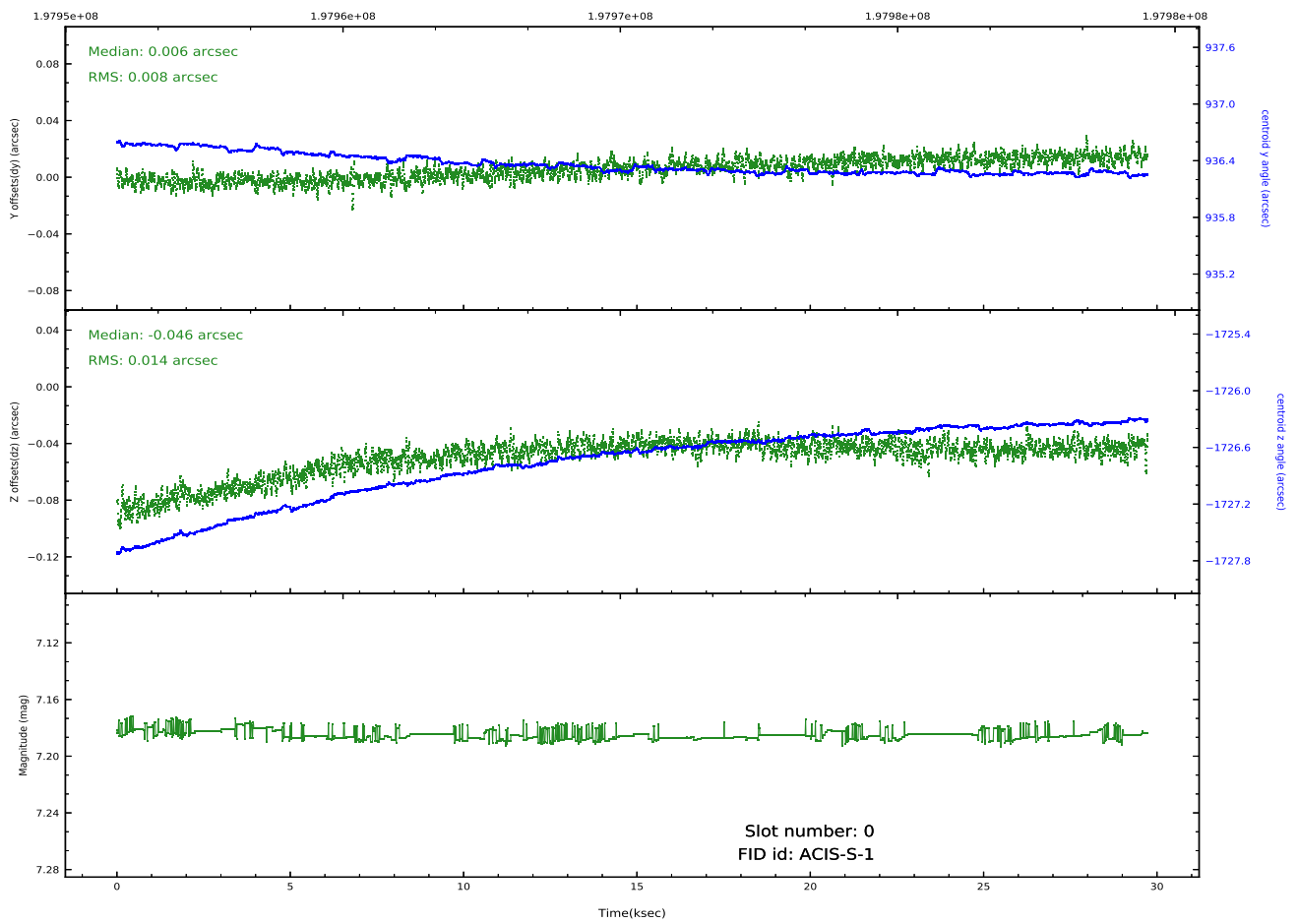


2.5 FID Slots

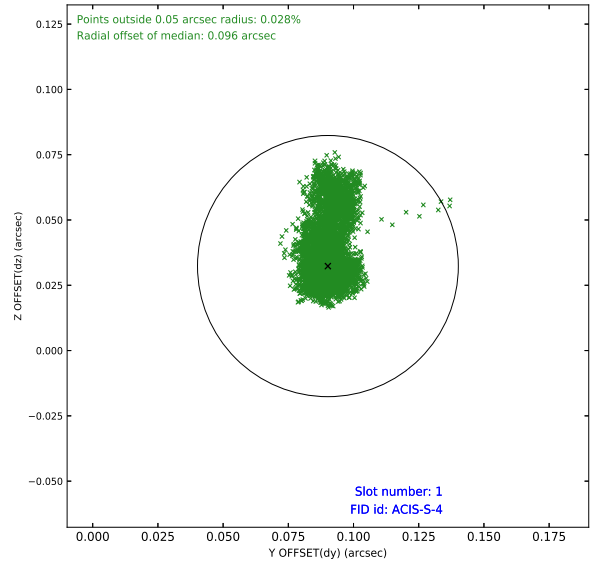
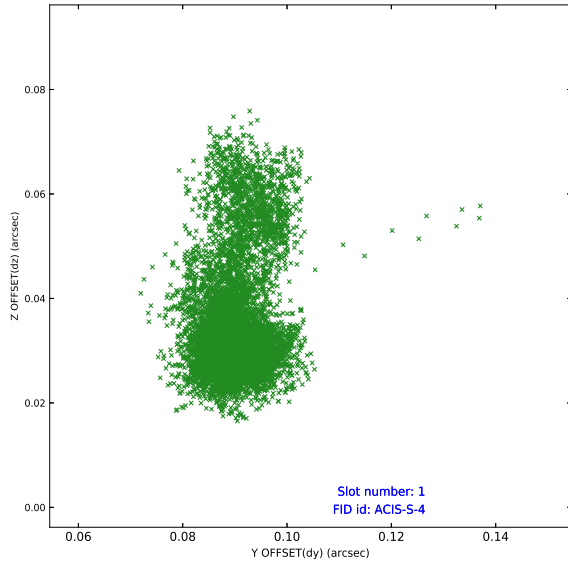
2.5.1 Slot 0



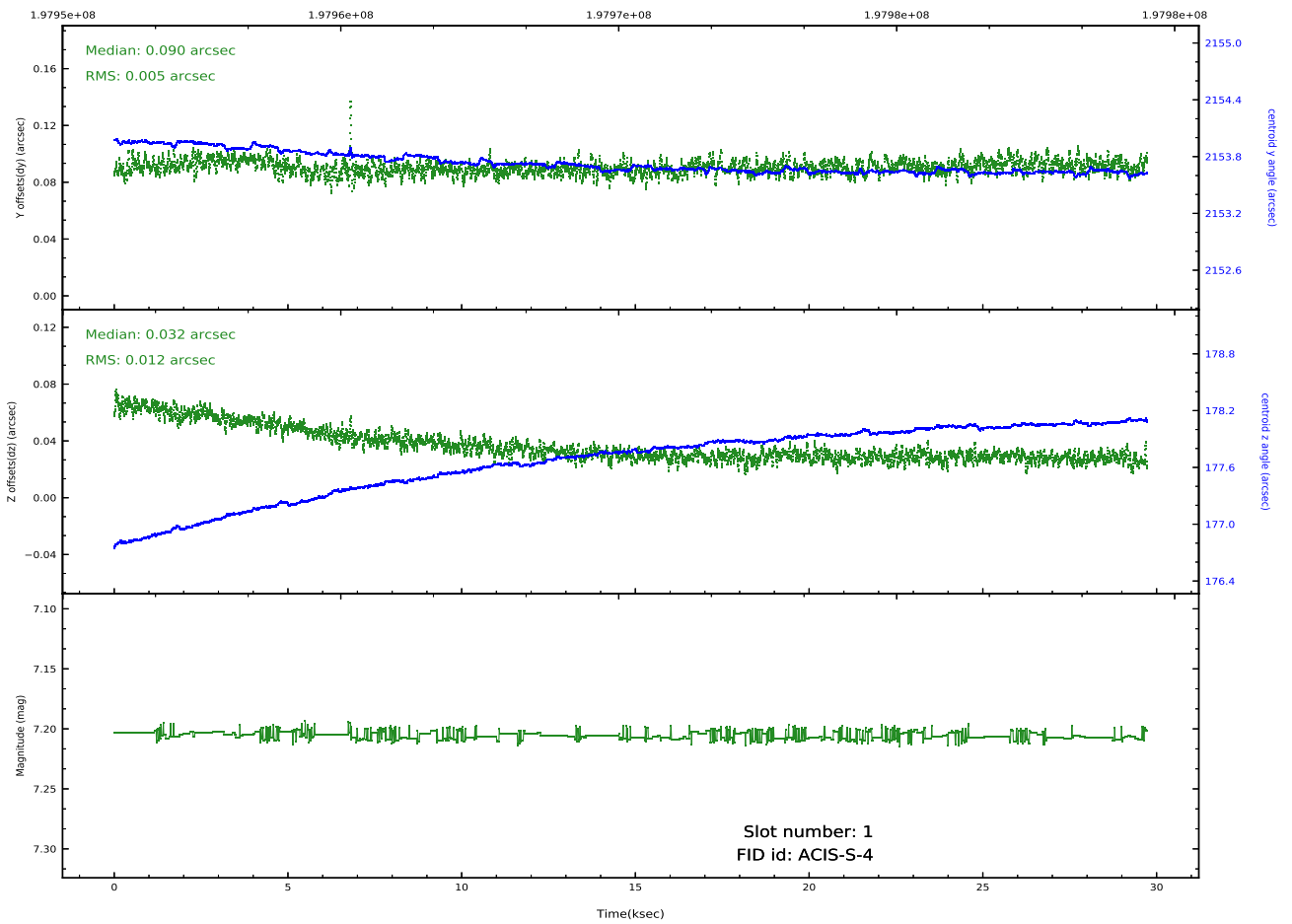
Time (s)



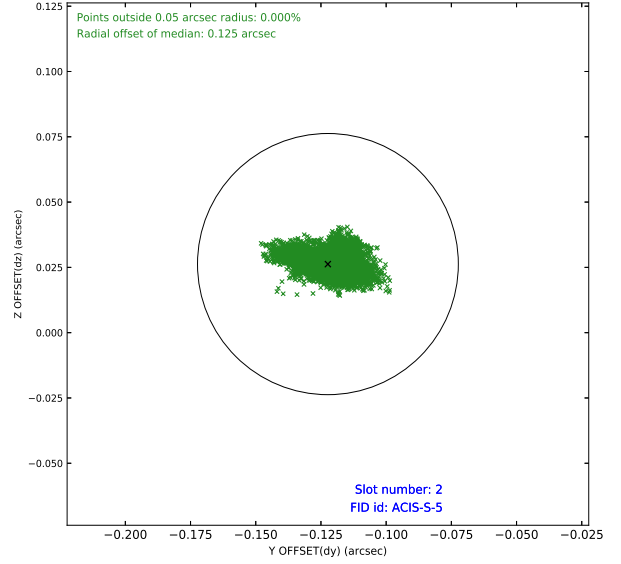
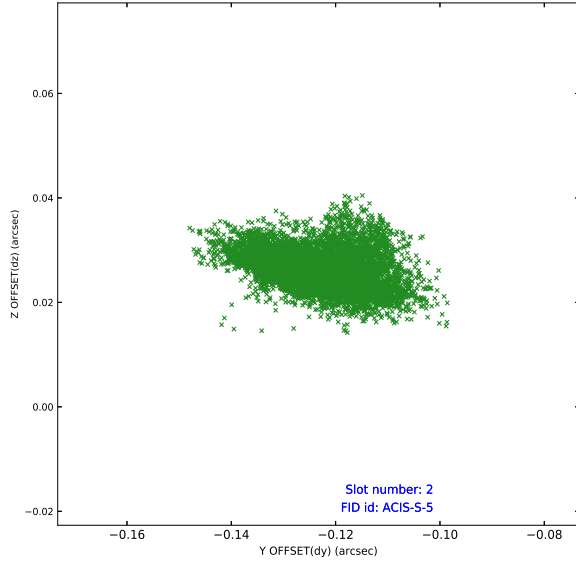
2.5.2 Slot 1



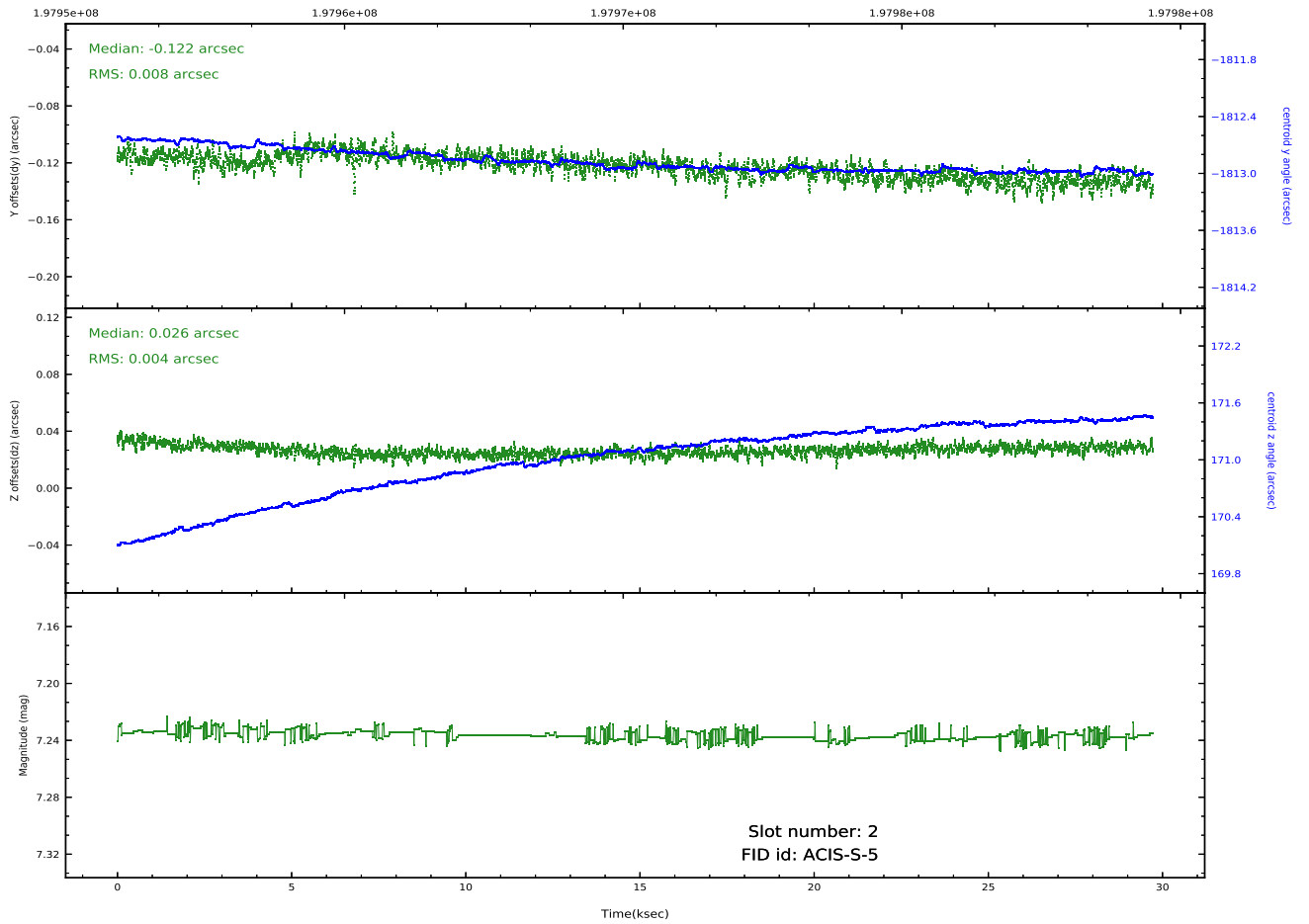
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.73

A.2 Comments

Window constraint satisfied.