

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20346 - L2 Version 2
Chandra X-Ray Center

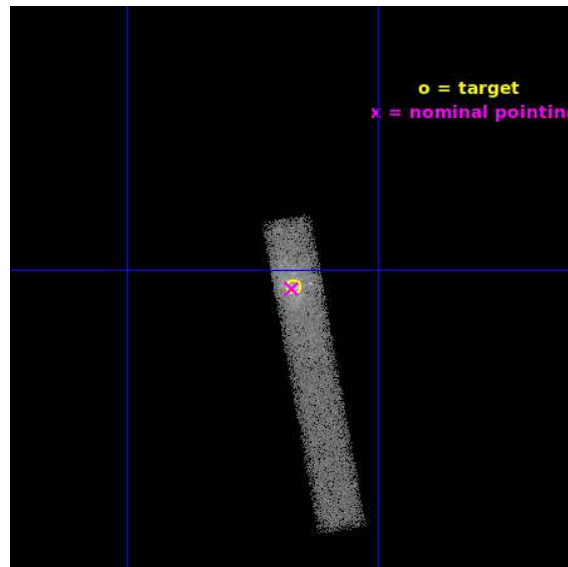
L2 Processing Date : Oct 25 2020

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1 Front

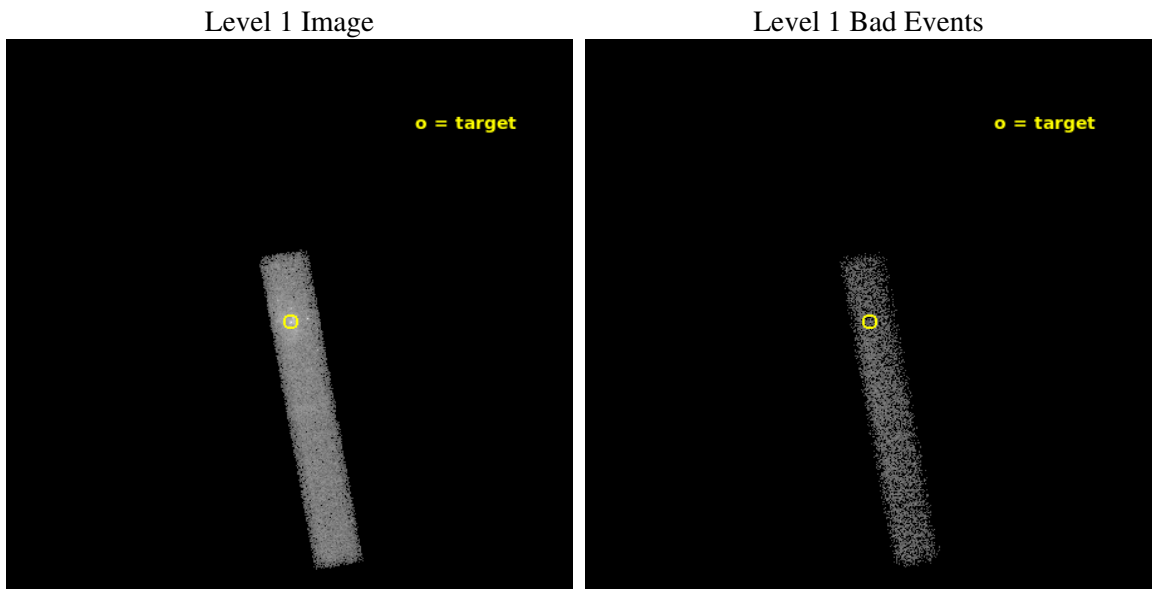
seq_num	601412	Sequence number
obs_id	20346	Observation id
title	Action at the Horizon: Chandra/EHT Observations of Sgr A*	Proposal
observer	Joey Neilsen	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.41778295667	Nominal RA [deg]
dec_nom	-29.008706107462	Nominal Dec [deg]
roll_nom	80.150965565744	Nominal Roll [deg]
revision	2	Processing version of data
ontime	33068.398028851	Sum of GTIs [s]
livetime	29991.291519001	Livetime [s]
ontime7	33068.398028851	Sum of GTIs [s]
l2events	35354	Number of level 2 events



2 OBI

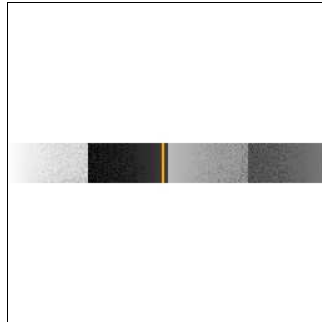
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	33068.398028851	Sum of GTIs [s]
caldbver	4.9.3	 	ontime7	33068.398028851	Sum of GTIs [s]
date	2020-10-25T15:11:08	Date and time of file creation	l1events	57851	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

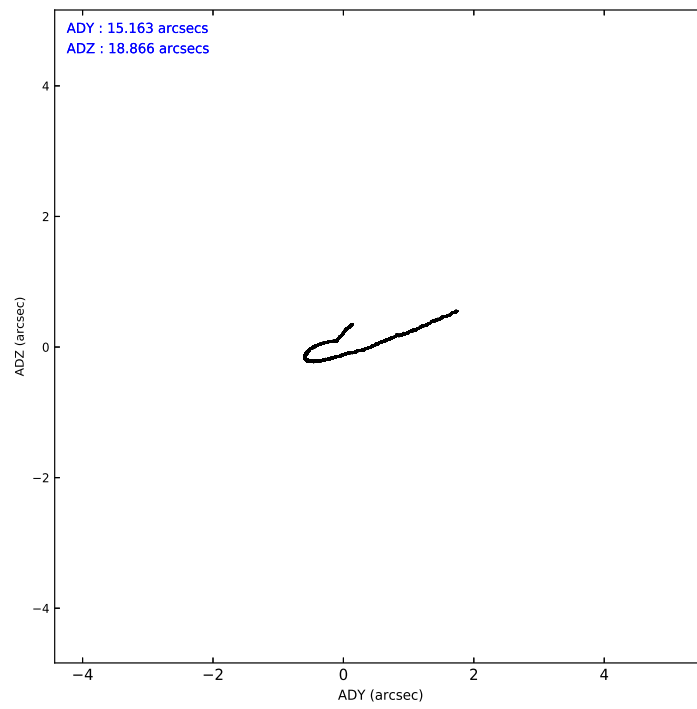
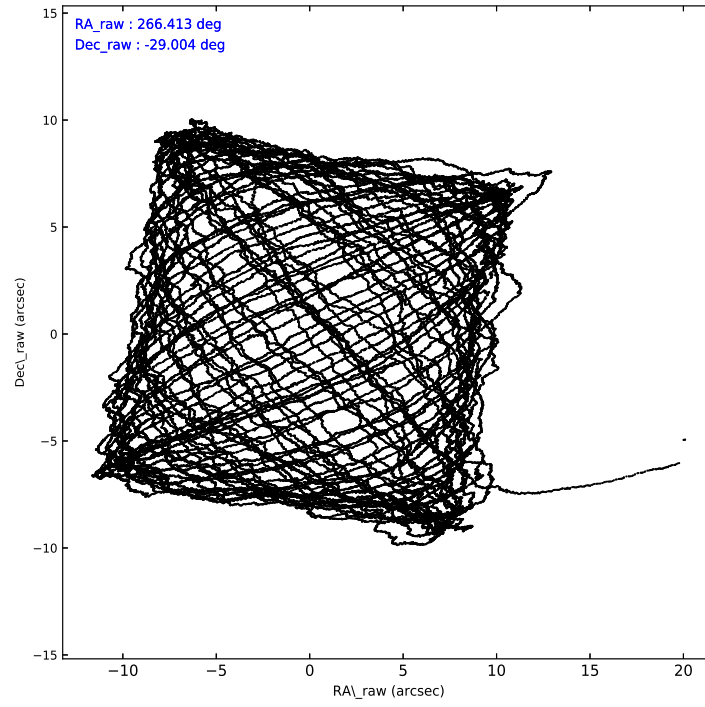
	ccd 7
level 1 events	57851
rejected events	21414
rejected %	37%

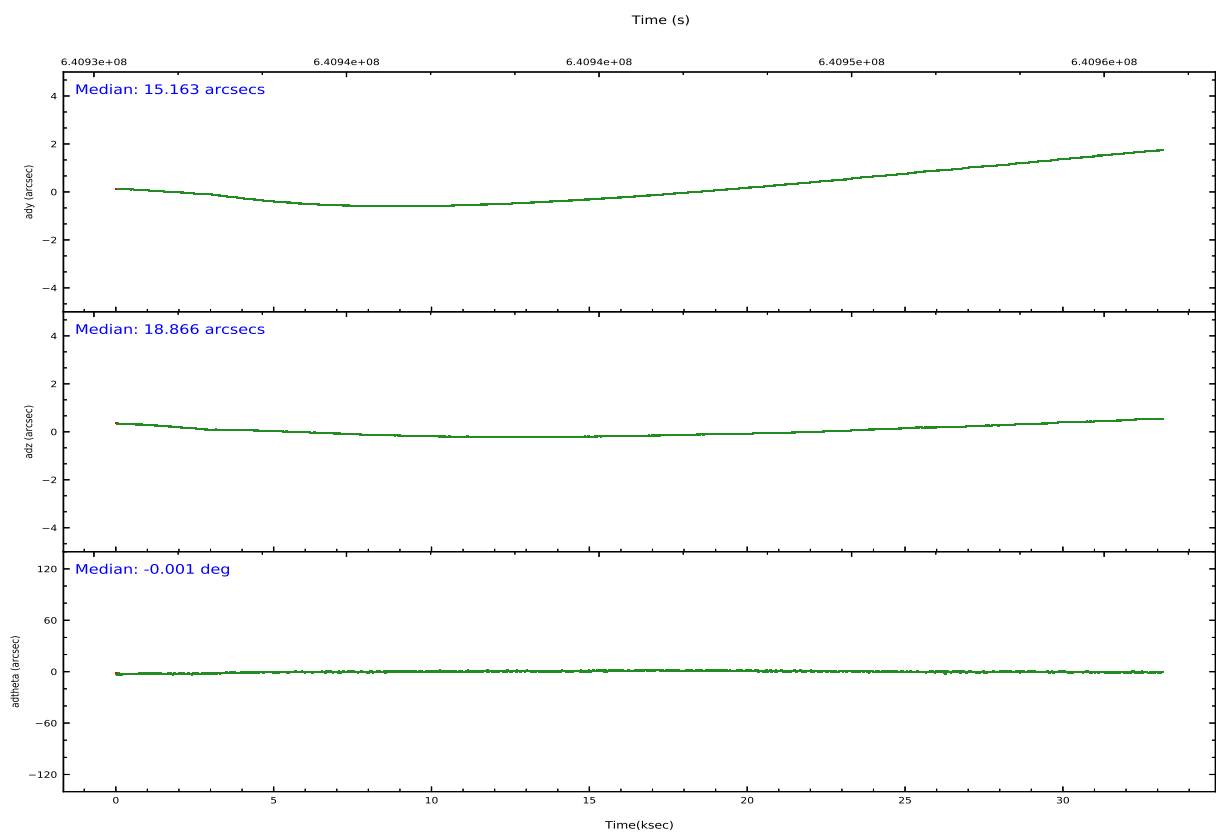
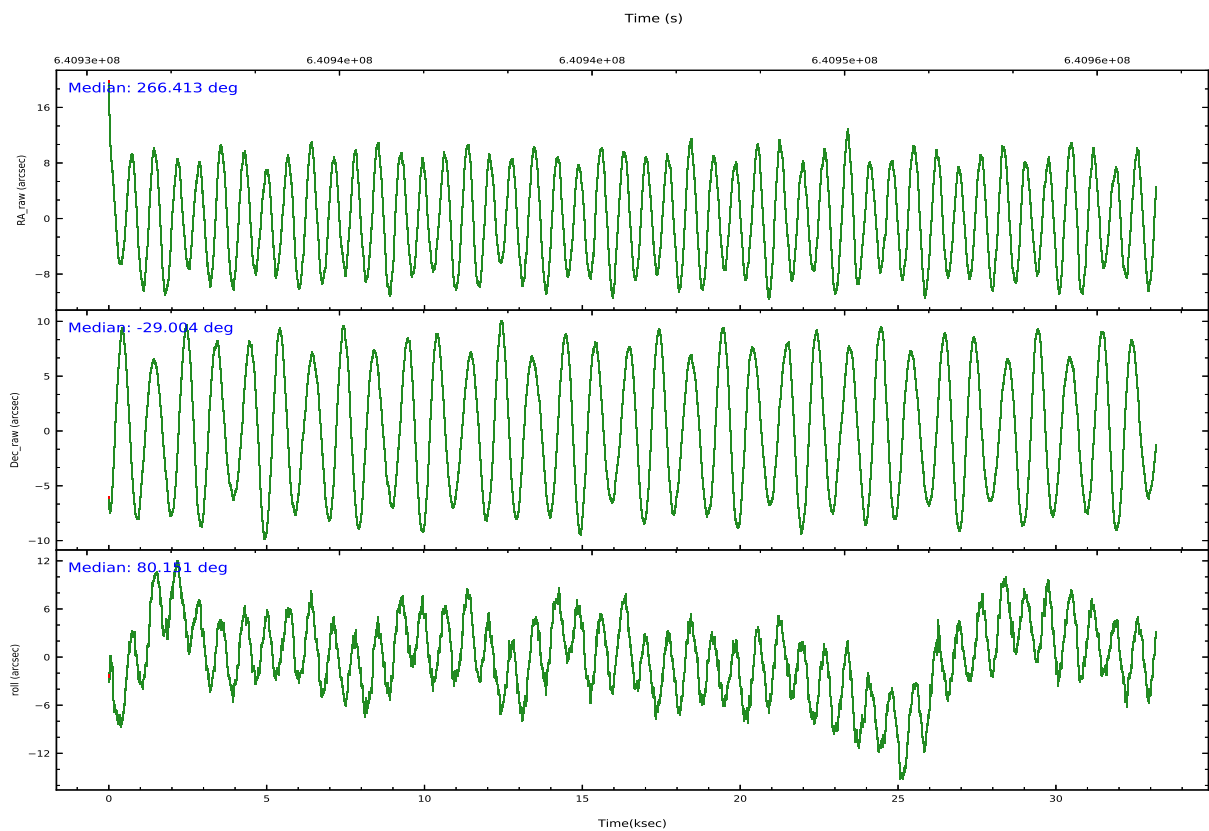
	ccd 7
grade 0 events	5332
	9%
grade 1 events	80
	0%
grade 2 events	7774
	13%
grade 3 events	4475
	7%
grade 4 events	4216
	7%
grade 5 events	4464
	7%
grade 6 events	14640
	25%
grade 7 events	16870
	29%

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	266.423726	266.41778295667	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.029040	-29.008706107462	Subarray start row	449	449
[deg] Pointing Roll	80.003422	80.150965565744	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	640928869.184000	640928023.49068			
Observation start date	2018-04-24T03:46:40	2018-04-24T03:33:43			
[s] Observation end time (MET)	640961869.184000	640963289.13026			
Observation end date	2018-04-24T12:56:40	2018-04-24T13:21:29			
Read mode	TIMED	TIMED			

2.3 Aspect



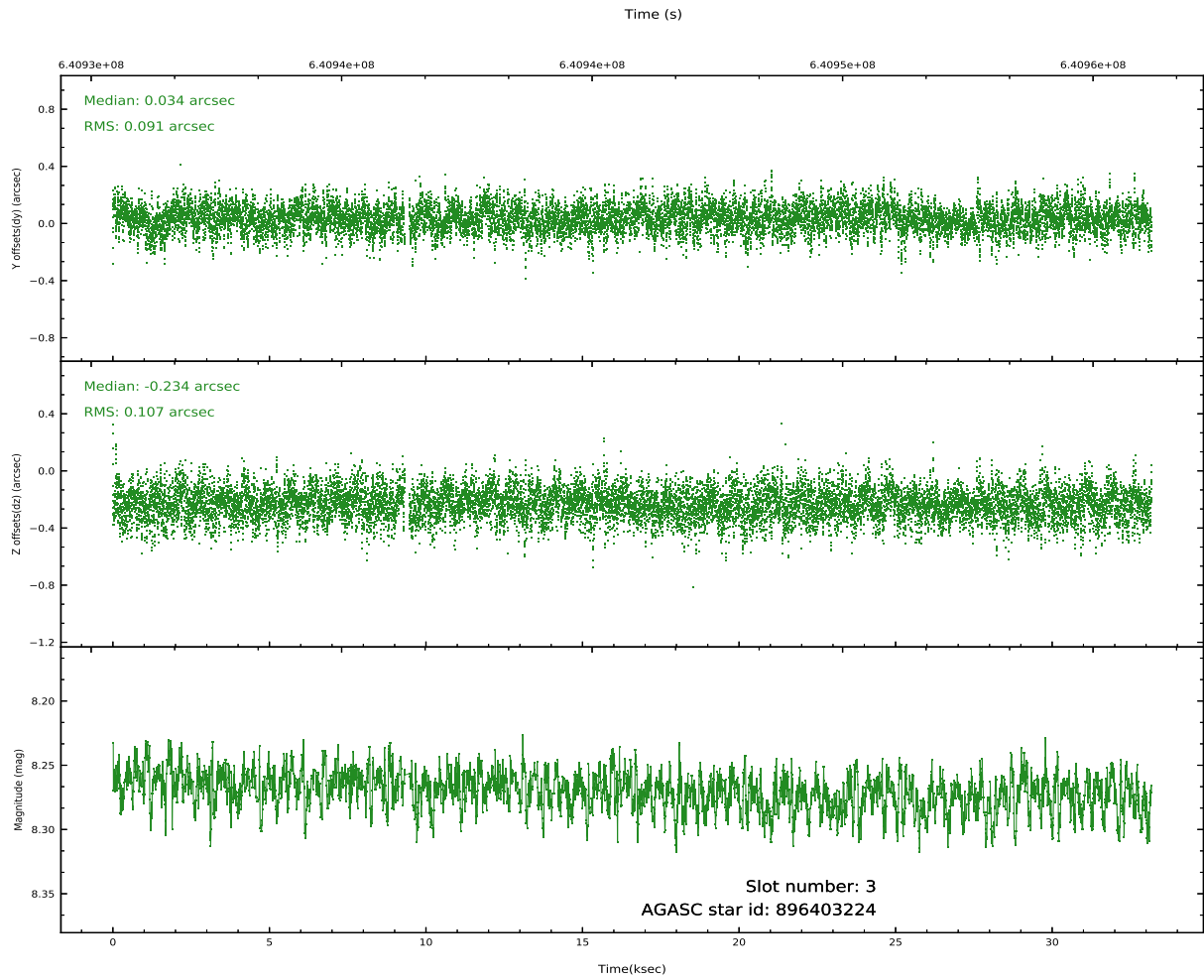
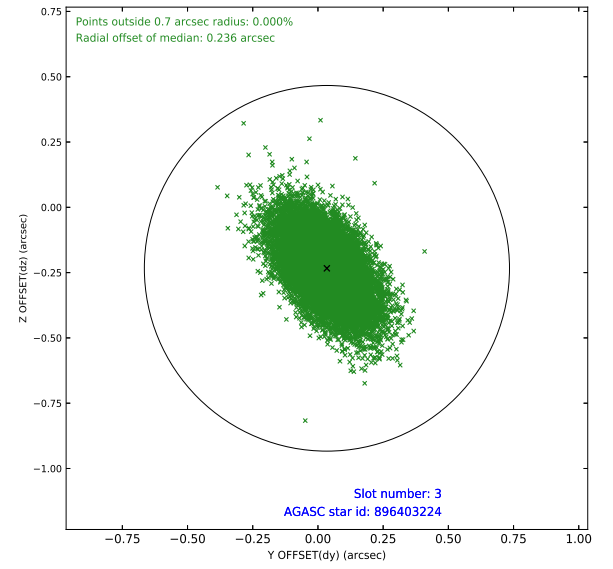
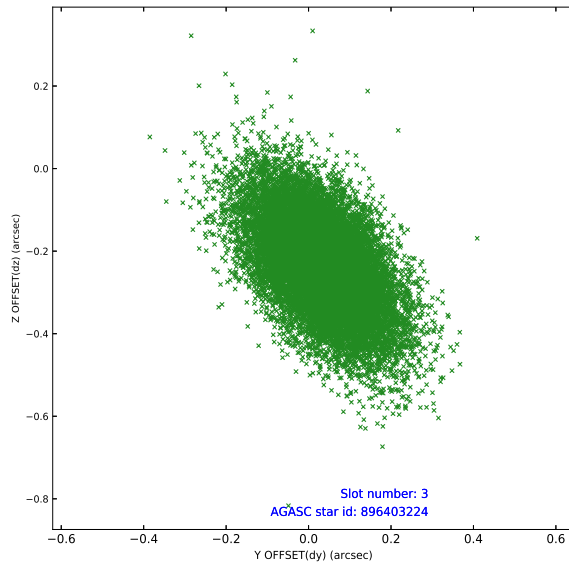


Slot Statistics

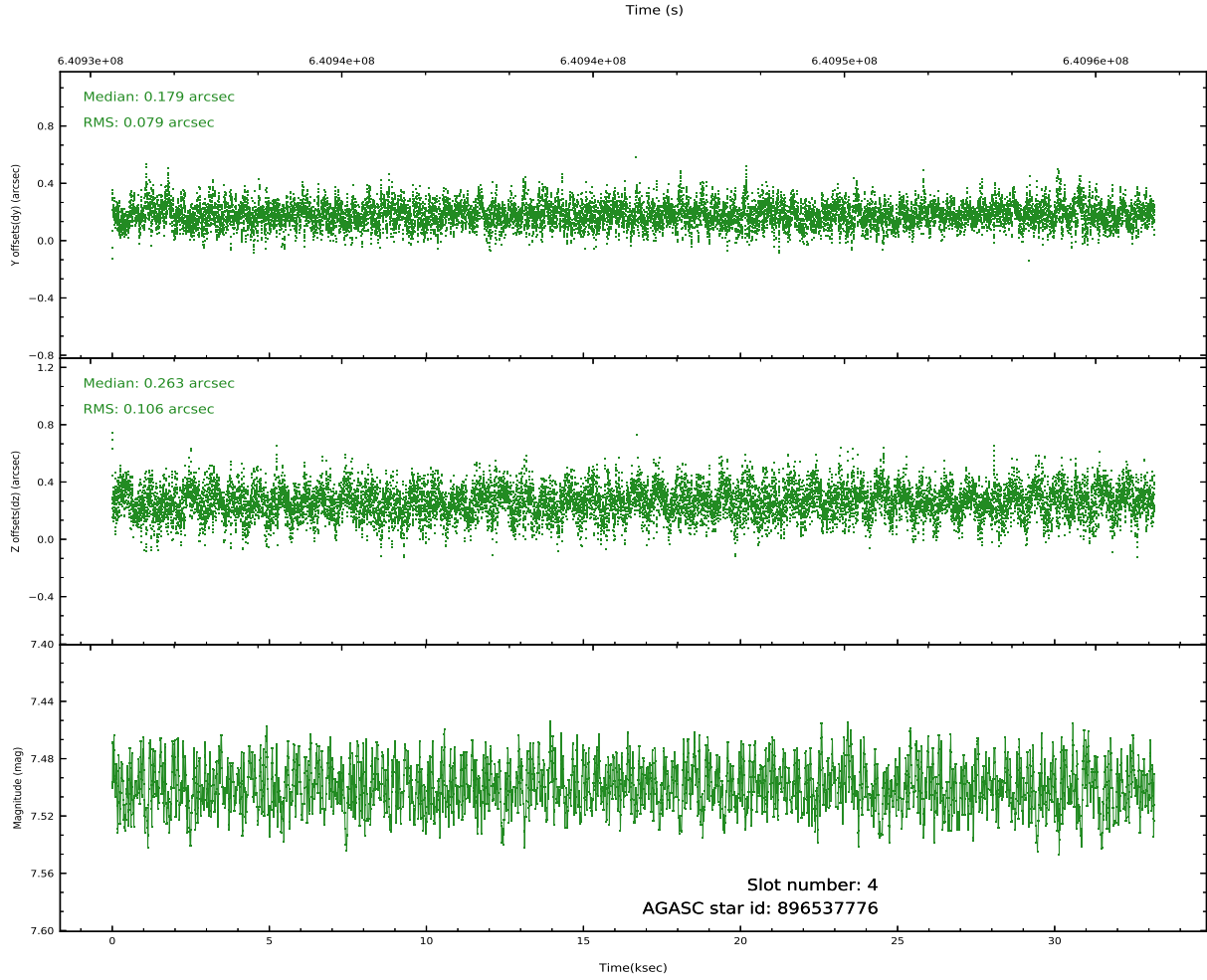
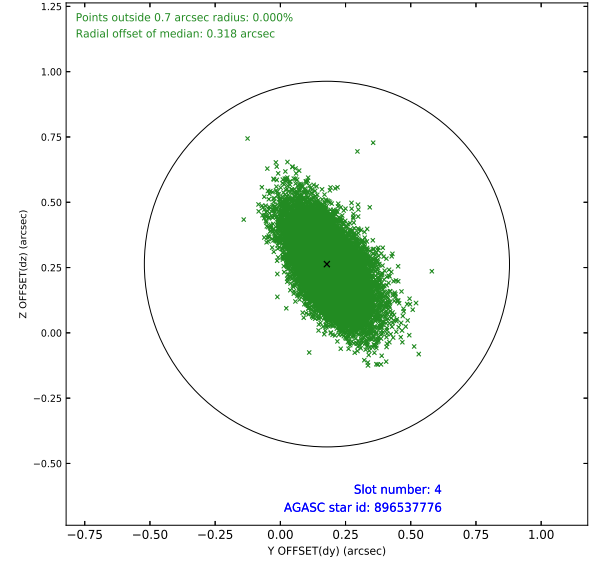
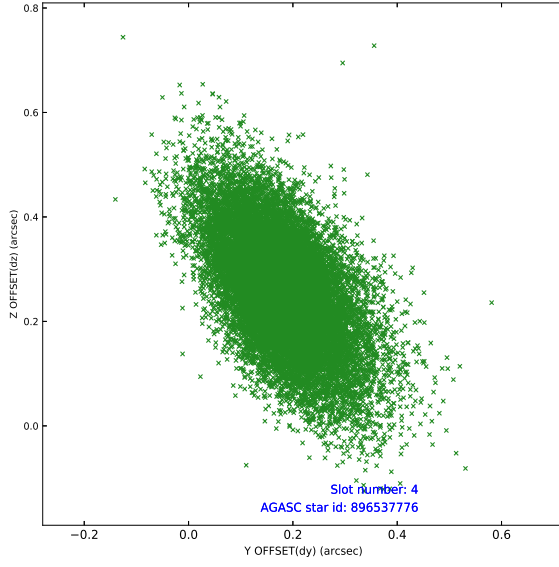
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.09	8091	1.000	0.254	-0.105	0.013	0.043	0.000000	0.000000	927.82	-1736
1	FID		ACIS-S-5	7.09	8091	1.000	-0.245	0.207	0.018	0.024	0.000000	0.000000	-1821.51	161
2	FID		ACIS-S-6	7.25	8091	1.000	-0.025	-0.087	0.018	0.041	0.000000	0.000000	393.22	805
3	GUIDE	used	896403224	8.27	16108	1.000	0.034	-0.234	0.144	0.255	265.612825	-29.438915	-1903.44	2245
4	GUIDE	used	896537776	7.50	16182	1.000	0.179	0.263	0.135	0.245	266.655684	-29.665673	-2131.45	-1112
5	GUIDE	used	896541360	7.70	16180	1.000	0.146	0.167	0.132	0.239	266.684478	-29.453744	-1364.41	-1070
6	GUIDE	used	896541576	8.16	16171	1.000	0.138	0.108	0.138	0.250	267.051055	-28.762912	1282.50	-1783
7	GUIDE	used	896538696	6.87	16181	1.000	-0.498	-0.303	0.125	0.237	266.298470	-28.325572	2424.69	830

2.4 Star Slots

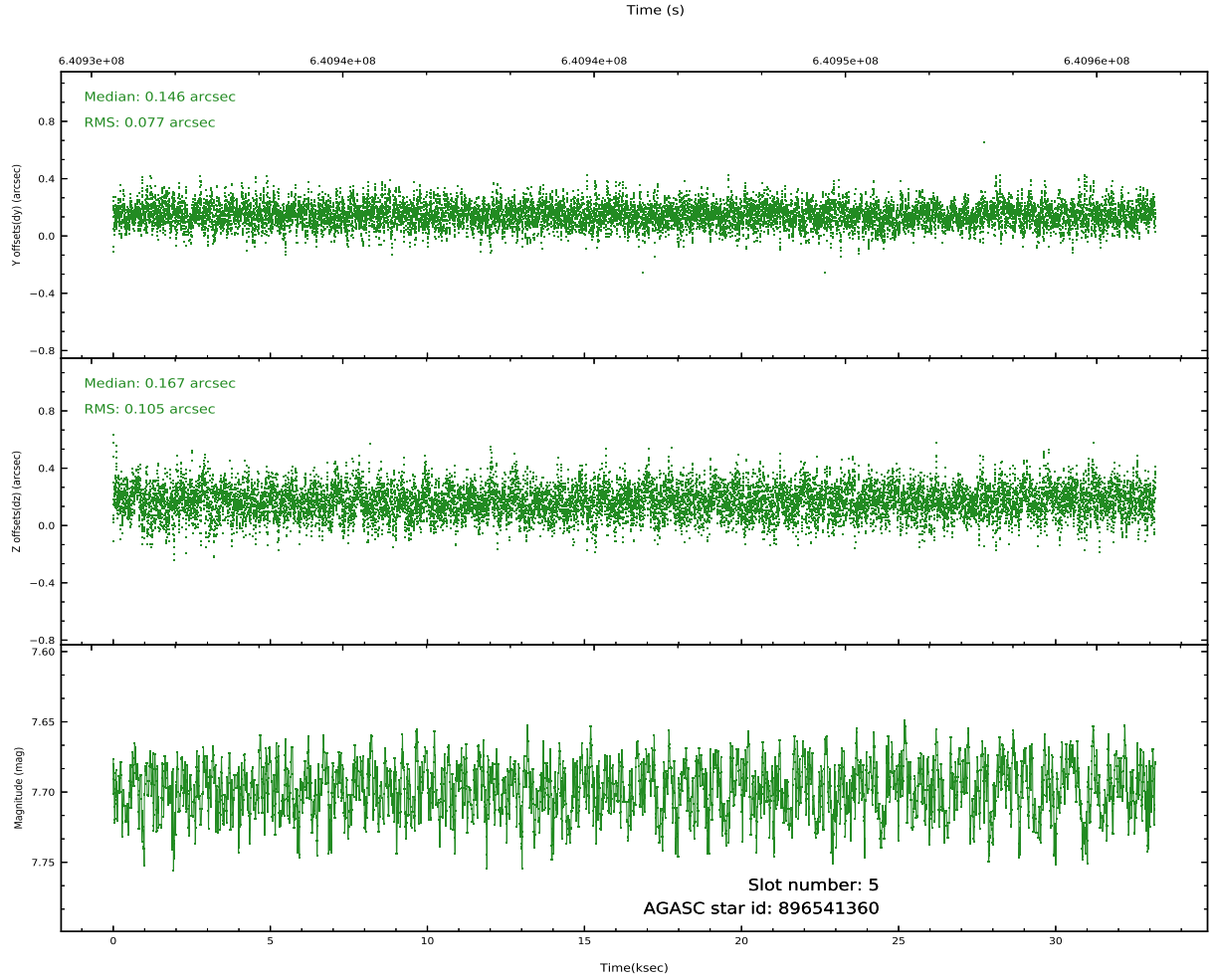
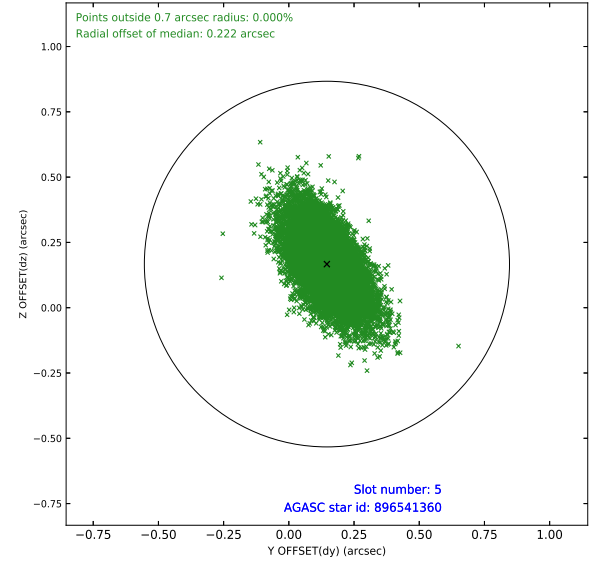
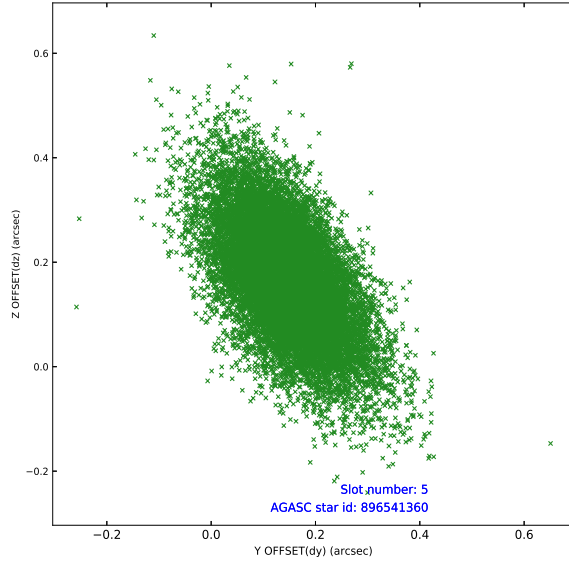
2.4.1 Slot 3



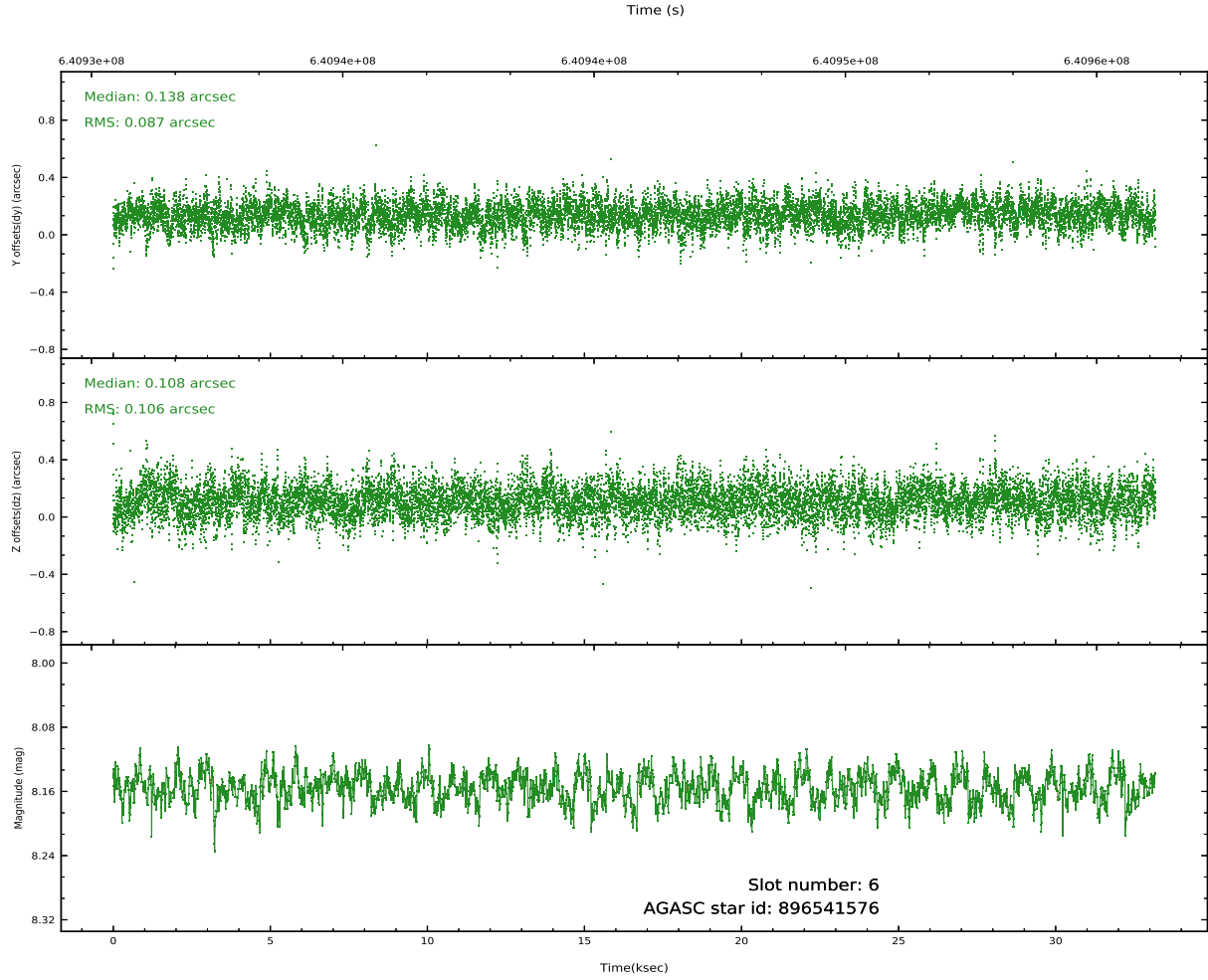
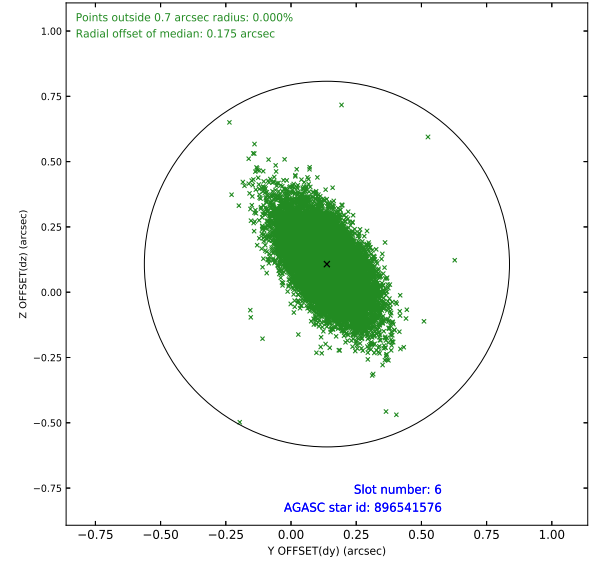
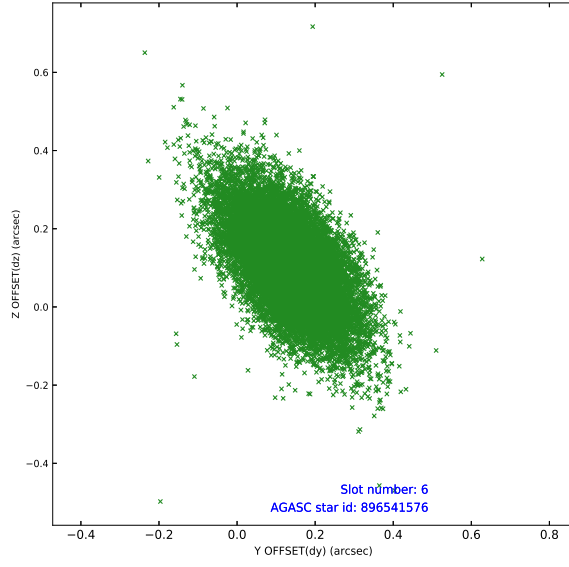
2.4.2 Slot 4



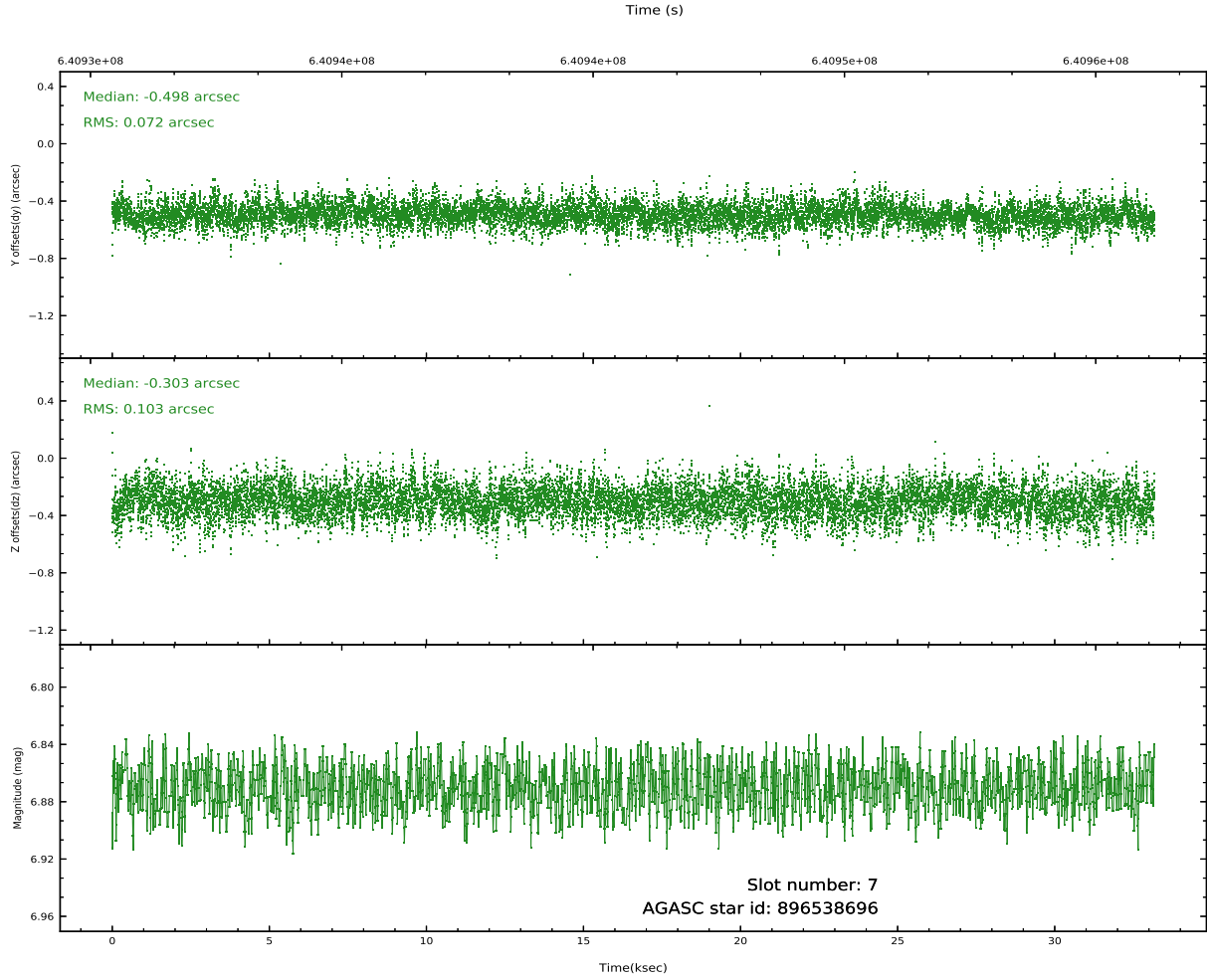
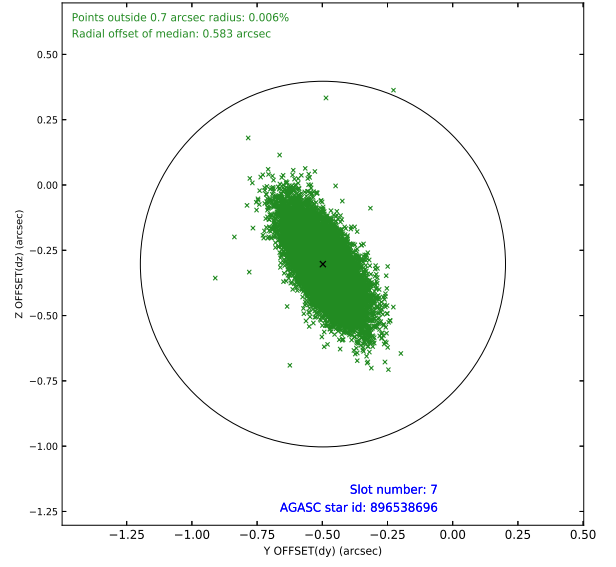
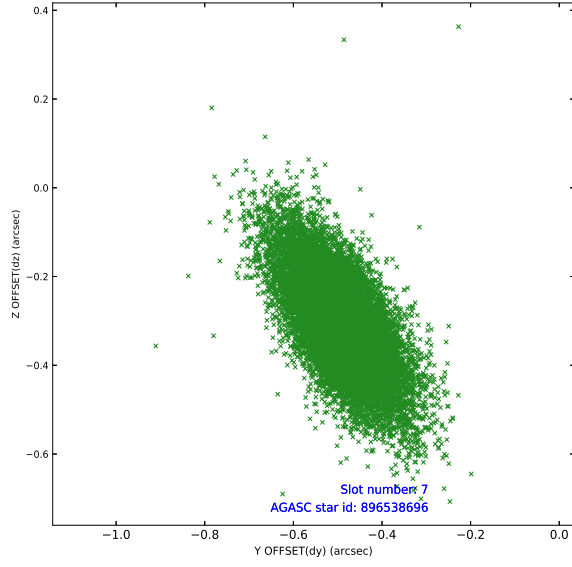
2.4.3 Slot 5



2.4.4 Slot 6

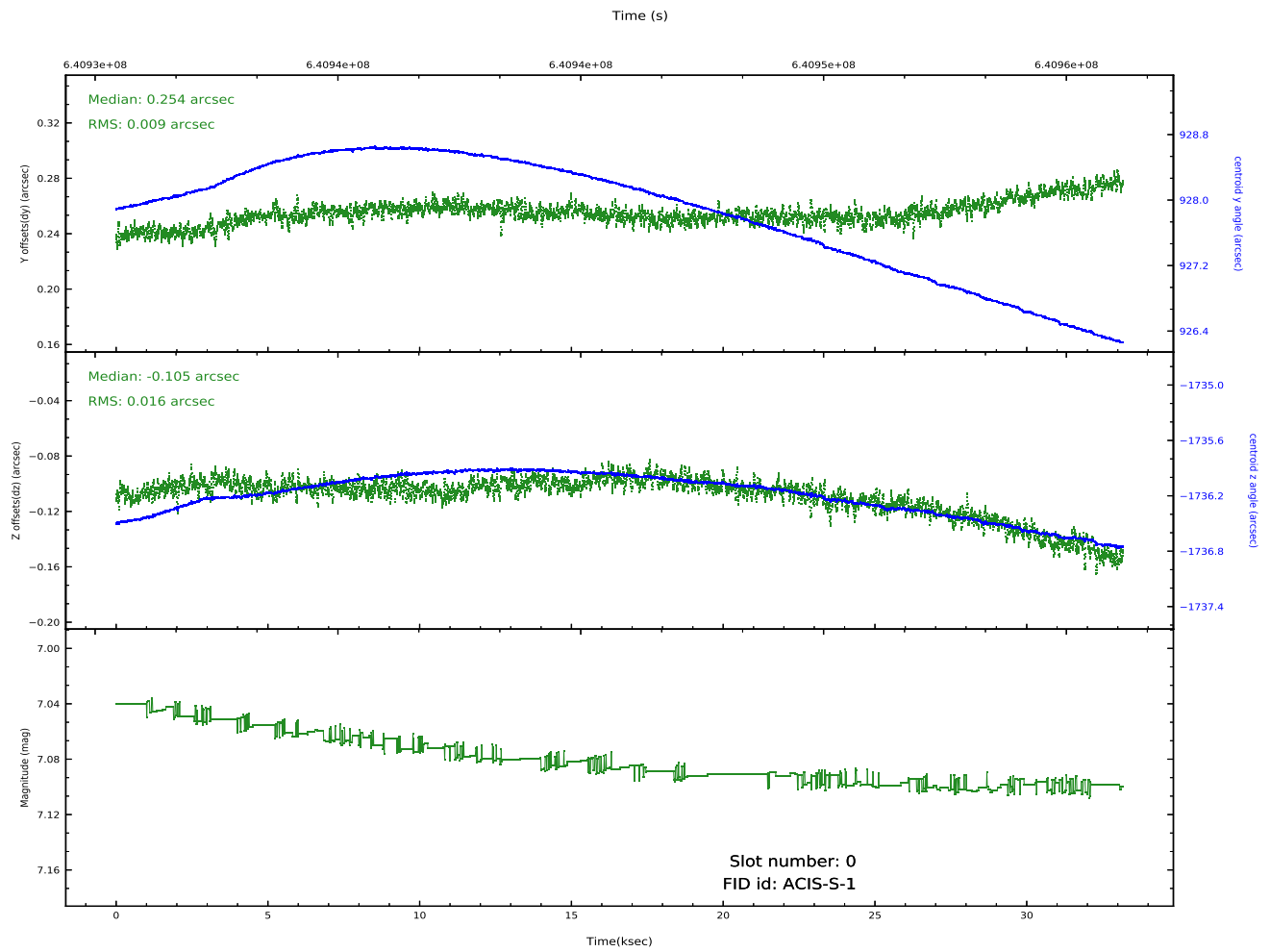
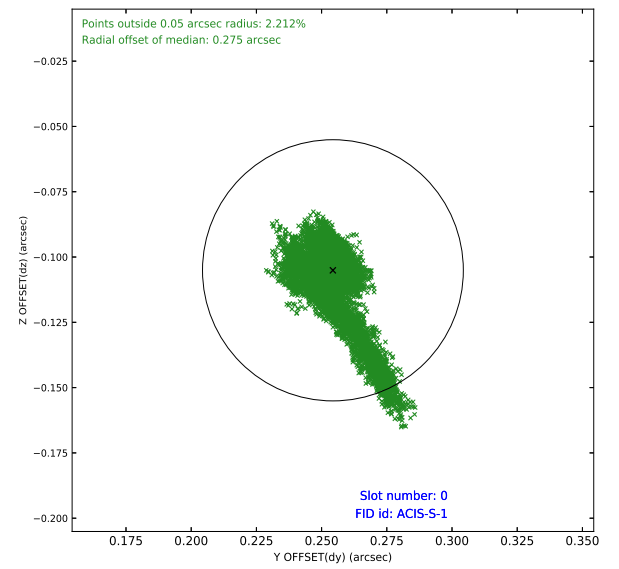
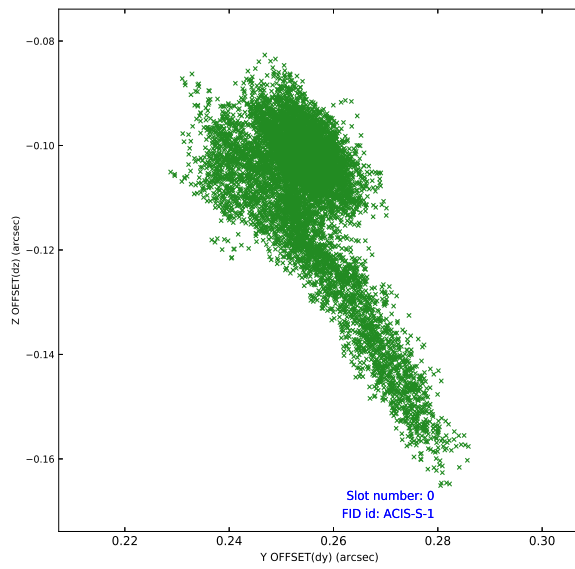


2.4.5 Slot 7

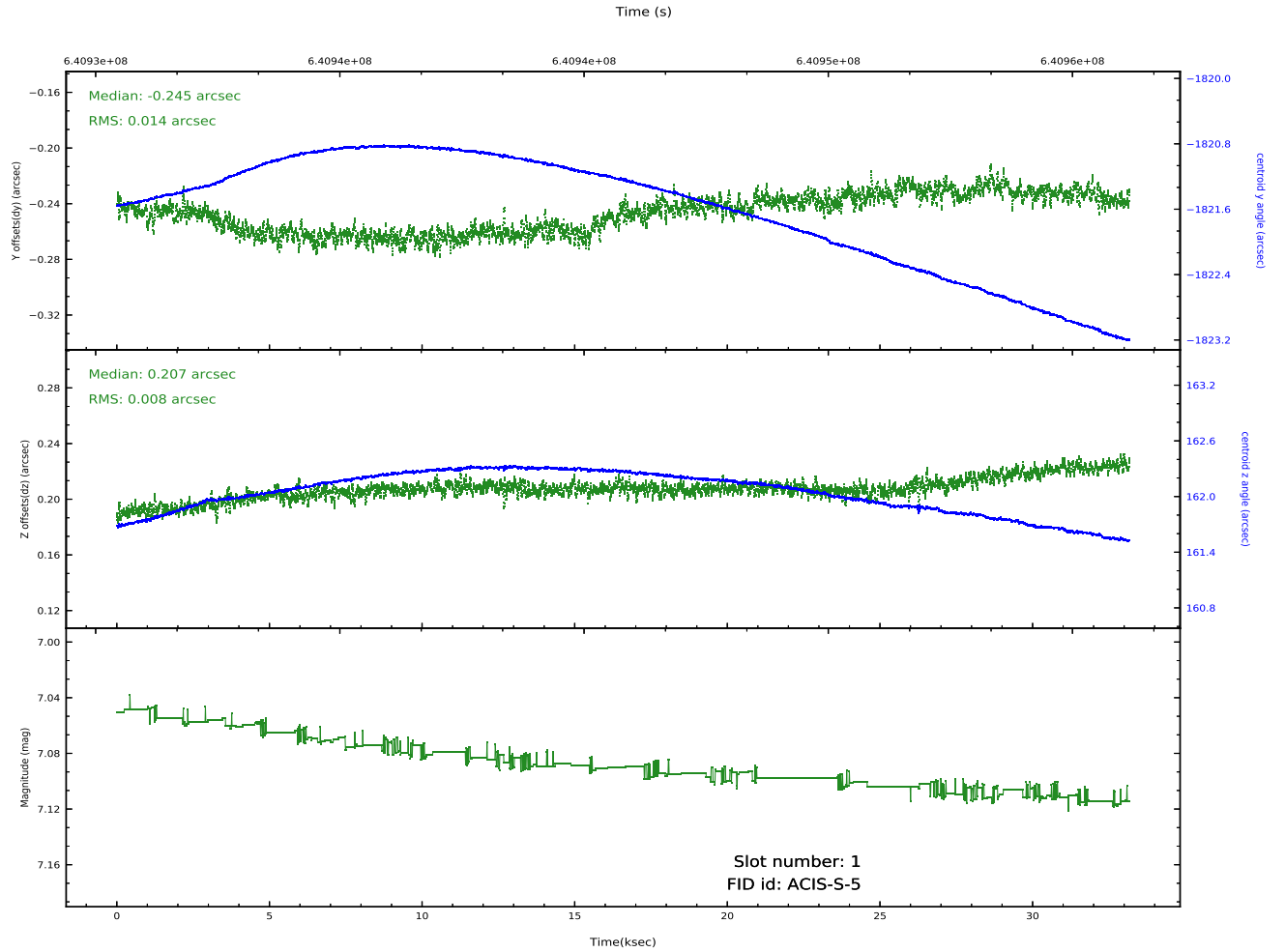
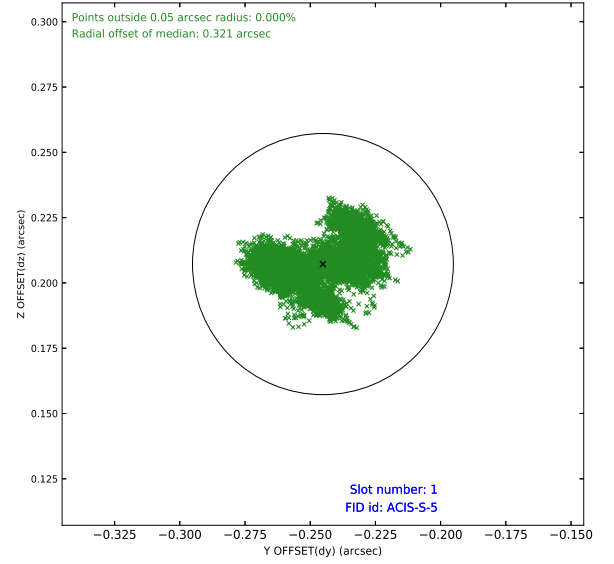
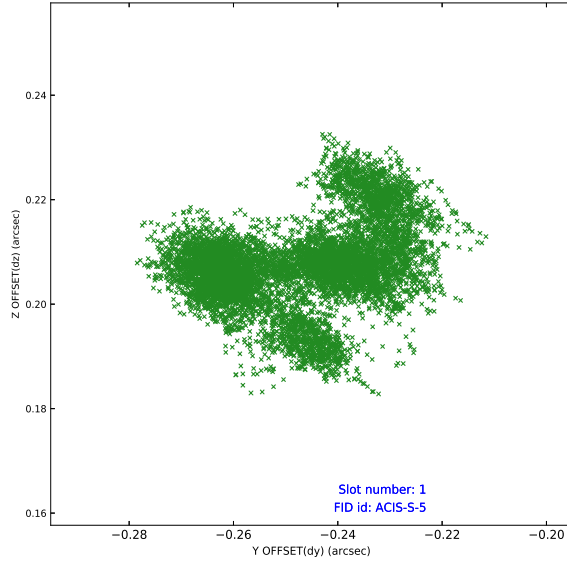


2.5 FID Slots

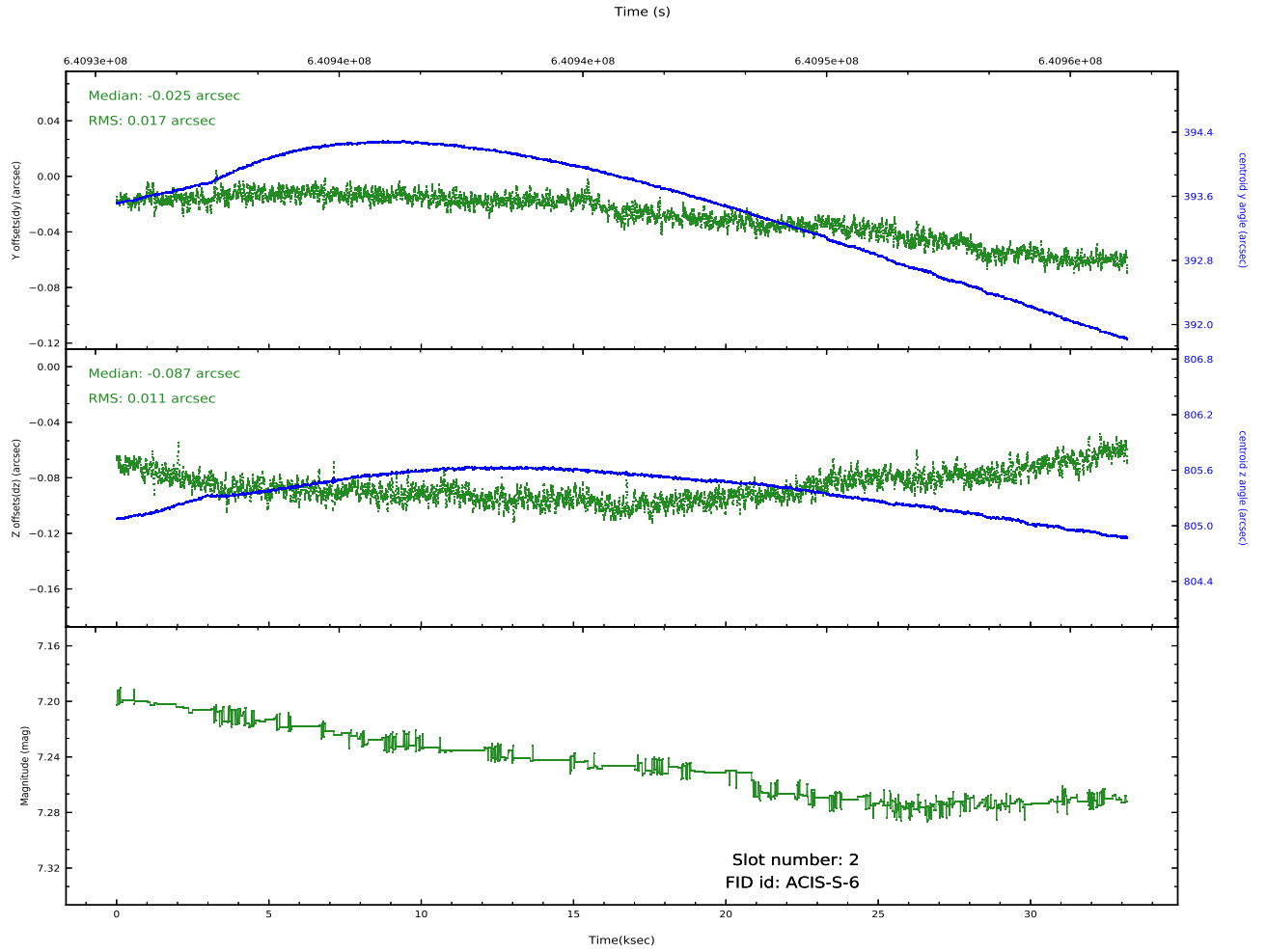
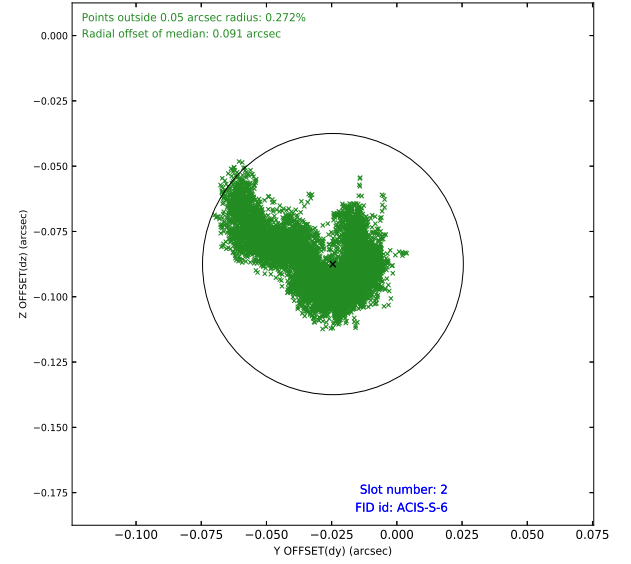
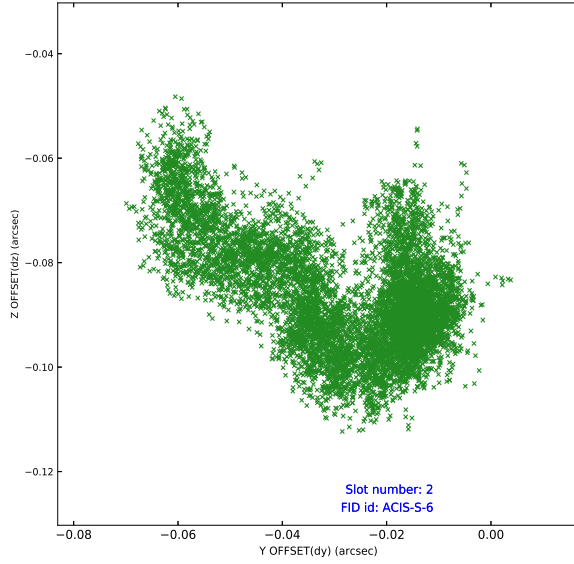
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.068398028851

A.2 Comments